

## **DATA PACKAGE VOLATILE ORGANICS**

**PROJECT NAME : EMERSON VAPOR INTRUSION REG006-0309010-25011690**

**APEX COMPANIES, LLC.**

**485 Route 1 South, Building B, Suite 130**

**Iselin, NJ - 08830**

**Phone No: 973-475-5502**

**ORDER ID : Q3038**

**ATTENTION : Michael Dziedzic**



**Laboratory Certification ID # 20012**



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## Cover Page

**Order ID :** Q3038

**Project ID :** Emerson Vapor Intrusion REG006-0309010-25011690

**Client :** Apex Companies, LLC.

**Lab Sample Number**

Q3038-01

**Client Sample Number**

SV-1

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

Signature : \_\_\_\_\_

Date: 9/18/2025

NYDOH CERTIFICATION NO - 11376

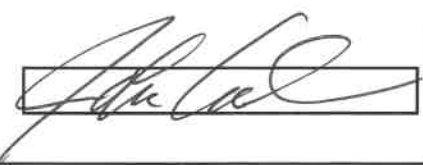
NJDEP CERTIFICATION NO - 20012





# SHIPPING DOCUMENTS

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| Client Contact Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                          |                         | Bottle Order ID : <b>B2508049</b>                            |                                    |                            |                           | Courier :                                                                                                                  |                                   |                                                                |         | 1 of 1 COCs                                                                                                                             |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|-------------------------|--------------------------------------------------------------|------------------------------------|----------------------------|---------------------------|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------|----------------------------------------------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------|---|---------------------|--|----------|--|--|--|--|---------|---------|---------|-------|--|--|--|------|--|--|--|-----------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Client ID : <b>APEX04</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                          |                         | Project ID : <b>Emerson Vapor Intrusion REG006-0309010-2</b> |                                    |                            |                           | Sampler Name(s) :                                                                                                          |                                   |                                                                |         | Analysis                                                                                                                                |             | Matrix                                                                                                           |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Customer Name : <b>Apex Companies, LLC.</b><br><br>Address : <b>485 Route 1 South, Building B, Suite 130</b><br><br>City : <b>Iselin</b><br><br>State : <b>NJ</b><br><br>Zip Code : <b>08830</b><br><br>Country :                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                          |                         | Project Manager : <b>MICHAEL DZIEDZIC</b>                    |                                    |                            |                           | <div style="text-align: center;"> <b>AIR ANALYSIS</b><br/> <b>CHAIN-OF-CUSTODY</b><br/><br/> <b>Batch Certified</b> </div> |                                   |                                                                |         | <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> ONLY report :<br/> TO-15 - PCE, TCE, vinyl chloride, 1,2-DCE </div> |             | <div style="writing-mode: vertical-rl; transform: rotate(180deg);"> Indoor/Ambient Air<br/><br/> Soil Gas </div> |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                          |                         | Phone Number : <b>973-475-5502</b>                           |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                          |                         | Fax Number :                                                 |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                          |                         | Site Details:                                                |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Analysis Turnaround Time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                          |                         | Standard : <b>10 business days</b> <b>OR</b>                 |                                    |                            |                           | Data Package Type :                                                                                                        |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Country :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                |                          |                         | Rush (Specify): <u>5</u> Days                                |                                    |                            |                           | EDD Type :                                                                                                                 |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Sample Identification                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Sample Date(s) | Time Start (24 hr Clock) | Time Stop (24 hr Clock) | Can Vacuum in Field ("Hg) (Start)                            | Can Vacuum in Field ("Hg) (Stop)** | Interior Temp. (F) (Start) | Interior Temp. (F) (Stop) | Out going Can Pressure ("Hg)(Lab)                                                                                          | In coming Can Pressure ("Hg)(Lab) | Flow Reg. ID                                                   | Can ID  | Flow Controller Readout (ml/min)                                                                                                        | Can Cert ID | TO-15 - PCE, TCE, vinyl chloride, 1,2-DCE                                                                        |   | Indoor/Ambient Air  |  | Soil Gas |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| SV-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 9/15/25        | 08:00                    | 08:30                   | -29.00                                                       | -5.00                              |                            |                           | -30                                                                                                                        | -9.6                              | 10545                                                          | 10122   | 1.4 L                                                                                                                                   | 50          | VL042090.D                                                                                                       | X |                     |  | X        |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| <div style="display: flex;"> <div style="flex: 1;"> <p style="text-align: center;">Temperature (Fahrenheit)</p> <table border="1"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> </div> <div style="flex: 1;"> <p style="text-align: center;">Pressure (Inches of Hg)</p> <table border="1"> <tr> <th></th> <th>Ambient</th> <th>Maximum</th> <th>Minimum</th> </tr> <tr> <td>Start</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Stop</td> <td></td> <td></td> <td></td> </tr> </table> </div> </div> |                |                          |                         |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                | Ambient | Maximum                                                                                                                                 | Minimum     | Start                                                                                                            |   |                     |  | Stop     |  |  |  |  | Ambient | Maximum | Minimum | Start |  |  |  | Stop |  |  |  | <p>GC/MS Analyst Signature (TO-15)</p>  |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ambient        | Maximum                  | Minimum                 |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                          |                         |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Stop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                          |                         |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ambient        | Maximum                  | Minimum                 |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Start                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                          |                         |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Stop                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                |                          |                         |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| <p>** Submittal of this COC indicates approval of the analysis based on existing conditions.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                          |                         |                                                              |                                    |                            |                           |                                                                                                                            |                                   | <p>Please follow the instructions on the back of this COC.</p> |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| <p>Special Instructions/QC Requirements &amp; Comments : <i>Please keep the SV &amp; Indoor Air Reports separate</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                |                          |                         |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| <p>Suspected Contamination: High Medium Low PID Readings: <i>0.0 ppm</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                          |                         |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| <p>Sampling site (State): <i>New Jersey</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                          |                         |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| <p>Quick Connector required : <i>yes</i></p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                          |                         |                                                              |                                    |                            |                           |                                                                                                                            |                                   |                                                                |         |                                                                                                                                         |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Canisters Shipped by: <i>AL</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                          |                         | Date/Time: <i>9/13/25</i>                                    |                                    |                            |                           | Canisters Received by:                 |                                   |                                                                |         | Date/Time: <i>9-15-25 1620</i>                                                                                                          |             |                                                                                                                  |   | <b>B2508049 - 1</b> |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Samples Relinquished by: <i>dois Brian</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                          |                         | Date/Time: <i>9/15/25 16:00</i>                              |                                    |                            |                           | Received by:                           |                                   |                                                                |         | Date/Time:                                                                                                                              |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |
| Relinquished by:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                |                          |                         | Date/Time:                                                   |                                    |                            |                           | Received by:                                                                                                               |                                   |                                                                |         | Date/Time:                                                                                                                              |             |                                                                                                                  |   |                     |  |          |  |  |  |  |         |         |         |       |  |  |  |      |  |  |  |                                                                                                                             |  |  |  |  |  |

### Laboratory Certification

| Certified By    | License No.      |
|-----------------|------------------|
|                 |                  |
| Connecticut     | PH-0830          |
|                 |                  |
| DOD ELAP (ANAB) | L2219            |
|                 |                  |
| Maine           | 2024021          |
|                 |                  |
| Maryland        | 296              |
|                 |                  |
| New Hampshire   | 255425           |
|                 |                  |
| New Jersey      | 20012            |
|                 |                  |
| New York        | 11376            |
|                 |                  |
| Pennsylvania    | 68-00548         |
|                 |                  |
| Soil Permit     | 525-24-234-08441 |
|                 |                  |
| Texas           | TX-C25-00189     |
|                 |                  |
| Virginia        | 460312           |

## Internal Chain of Custody

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

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

Laboratory: Chemtech

Location: 284 Sheffield Street, Mountainside, NJ 7092

**NOTE:**

Title: Sample Custodian

Field Sample Seal No. Q3038

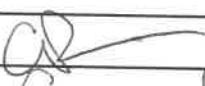
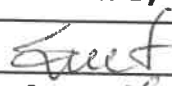
Date Broken 9/8/2025

Military Time Seal Broken: 16:20:00

Case No.: Emerson Vapor Intrusion R

Analytical Parameter/Fraction TO-15

| Sample No. | Aliquot/Extract No. | Sample No. | Aliquot/Extract No. |
|------------|---------------------|------------|---------------------|
| Q3038-01   | SV-1                |            |                     |
|            |                     |            |                     |

| Date   | Time | Relinquished By                                                                             | Received By                                                                                 | Purpose of Change of Custody |
|--------|------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------|
| 9/8/25 | 2:50 | Signature  | Signature  |                              |
|        |      | Printed Name <u>Caroline C. Lee</u>                                                         | Printed Name <u>Samantha Yudof</u>                                                          |                              |
|        |      | Signature                                                                                   | Signature                                                                                   |                              |
|        |      | Printed Name                                                                                | Printed Name                                                                                |                              |
|        |      | Signature                                                                                   | Signature                                                                                   |                              |
|        |      | Printed Name                                                                                | Printed Name                                                                                |                              |
|        |      | Signature                                                                                   | Signature                                                                                   |                              |
|        |      | Printed Name                                                                                | Printed Name                                                                                |                              |
|        |      | Signature                                                                                   | Signature                                                                                   |                              |
|        |      | Printed Name                                                                                | Printed Name                                                                                |                              |
|        |      | Signature                                                                                   | Signature                                                                                   |                              |
|        |      | Printed Name                                                                                | Printed Name                                                                                |                              |
|        |      | Signature                                                                                   | Signature                                                                                   |                              |
|        |      | Printed Name                                                                                | Printed Name                                                                                |                              |
|        |      | Signature                                                                                   | Signature                                                                                   |                              |
|        |      | Printed Name                                                                                | Printed Name                                                                                |                              |

Distribution: White - Original (Sent With Report)

Yellow - Contractor Archive

Pink - Sample Custodian - Interim Copy

**Analyst Signature:**

**Supervisor Signature:**

**METHOD: TO-15**

Pressure Gauge ID:

Document Control # A3041228

# CHEMTECH

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

Client Sample ID #: SV-1

Client Name: Aper

Project Name: EMERSON Phase II

Date: 9/5/25 Time: \_\_\_\_\_

Analysis: \_\_\_\_\_

Comments: \_\_\_\_\_

CHEMTECH

Date Received \_\_\_\_\_

Storage Location: Air Lab

Sample: Q3038-01

Cust #: SV-1

Disposal: \_\_\_\_\_

## **CASE NARRATIVE**

**Apex Companies, LLC.**

**Project Name: Emerson Vapor Intrusion REG006-0309010-25011690**

**Project # N/A**

**Order ID # Q3038**

**Test Name: VOCMS Group2**

### **A. Number of Samples and Date of Receipt:**

1 Air sample was received on 09/05/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: VOCMS Group2. This data package contains results for VOCMS Group2.

### **C. Analytical Techniques:**

The analysis performed on instrument MSVOA\_L were done using GC column RTX-1, which is 60 meters, 0.32 mm id, 1.0 um df, Restek Cat. #10157. The Trap was supplied by Entech, glass bead and Tenax , Entech 7100A Preconcentrator. The analysis of VOCMS Group2 was based on method TO-15.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries were met for all analysis.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

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

The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

Due to potential high concentration of target analytes, Sample SV-1 was initially diluted.

### **E. Additional Comments:**

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The not QT review data is reported in the Miscellaneous.

The Manual Integrations are performed for the followings:



| Manual Integration Report |          |            |         |
|---------------------------|----------|------------|---------|
| Sequence                  | VL081325 | Instrument | MSVOA_I |

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

|             |            |                         |     |                         |          |                         |                                         |
|-------------|------------|-------------------------|-----|-------------------------|----------|-------------------------|-----------------------------------------|
| VSTDICCC010 | VL042842.D | m/p-Xylene              | SAM | 8/14/2025<br>7:48:06 AM | MMDadoda | 8/18/2025<br>8:42:07 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042843.D | 1,1,2-Trichloroethane   | SAM | 8/14/2025<br>7:48:12 AM | MMDadoda | 8/18/2025<br>8:42:11 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042843.D | 1,4-Dioxane             | SAM | 8/14/2025<br>7:48:12 AM | MMDadoda | 8/18/2025<br>8:42:11 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042843.D | cis-1,3-Dichloropropene | SAM | 8/14/2025<br>7:48:12 AM | MMDadoda | 8/18/2025<br>8:42:11 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042843.D | Ethanol                 | SAM | 8/14/2025<br>7:48:12 AM | MMDadoda | 8/18/2025<br>8:42:11 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042843.D | m/p-Xylene              | SAM | 8/14/2025<br>7:48:12 AM | MMDadoda | 8/18/2025<br>8:42:11 AM | Peak Integrated by Software incorrectly |
| VSTDICCC002 | VL042843.D | Methyl Methacrylate     | SAM | 8/14/2025<br>7:48:12 AM | MMDadoda | 8/18/2025<br>8:42:11 AM | Peak Integrated by Software incorrectly |
| VSTDICCC001 | VL042844.D | 1,2-Dichloropropane     | SAM | 8/14/2025<br>7:48:18 AM | MMDadoda | 8/18/2025<br>8:42:13 AM | Peak Integrated by Software incorrectly |
| VSTDICCC001 | VL042844.D | 1,4-Dioxane             | SAM | 8/14/2025<br>7:48:18 AM | MMDadoda | 8/18/2025<br>8:42:13 AM | Peak Integrated by Software incorrectly |
| VSTDICCC001 | VL042844.D | 2,2,4-Trimethylpentane  | SAM | 8/14/2025<br>7:48:18 AM | MMDadoda | 8/18/2025<br>8:42:13 AM | Peak Integrated by Software incorrectly |
| VSTDICCC001 | VL042844.D | Ethanol                 | SAM | 8/14/2025<br>7:48:18 AM | MMDadoda | 8/18/2025<br>8:42:13 AM | Peak Integrated by Software incorrectly |



|           |            |                              |     |                            |          |                            |                                                  |
|-----------|------------|------------------------------|-----|----------------------------|----------|----------------------------|--------------------------------------------------|
| VSTDIC001 | VL042844.D | Heptane                      | SAM | 8/14/2025<br>7:48:18<br>AM | MMDadoda | 8/18/2025<br>8:42:13<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC001 | VL042844.D | m/p-Xylene                   | SAM | 8/14/2025<br>7:48:18<br>AM | MMDadoda | 8/18/2025<br>8:42:13<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC001 | VL042844.D | Methyl<br>Methacrylate       | SAM | 8/14/2025<br>7:48:18<br>AM | MMDadoda | 8/18/2025<br>8:42:13<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC001 | VL042844.D | t-1,3-<br>Dichloropropene    | SAM | 8/14/2025<br>7:48:18<br>AM | MMDadoda | 8/18/2025<br>8:42:13<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC001 | VL042844.D | trans-1,2-<br>Dichloroethene | SAM | 8/14/2025<br>7:48:18<br>AM | MMDadoda | 8/18/2025<br>8:42:13<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC0.5 | VL042845.D | 1,1,2-<br>Trichloroethane    | SAM | 8/14/2025<br>7:49:25<br>AM | MMDadoda | 8/18/2025<br>8:42:16<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC0.5 | VL042845.D | 1,4-Dioxane                  | SAM | 8/14/2025<br>7:49:25<br>AM | MMDadoda | 8/18/2025<br>8:42:16<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC0.5 | VL042845.D | 2,2,4-<br>Trimethylpentane   | SAM | 8/14/2025<br>7:49:25<br>AM | MMDadoda | 8/18/2025<br>8:42:16<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC0.5 | VL042845.D | 4-Methyl-2-<br>Pentanone     | SAM | 8/14/2025<br>7:49:25<br>AM | MMDadoda | 8/18/2025<br>8:42:16<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC0.5 | VL042845.D | cis-1,3-<br>Dichloropropene  | SAM | 8/14/2025<br>7:49:25<br>AM | MMDadoda | 8/18/2025<br>8:42:16<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC0.5 | VL042845.D | m/p-Xylene                   | SAM | 8/14/2025<br>7:49:25<br>AM | MMDadoda | 8/18/2025<br>8:42:16<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC0.5 | VL042845.D | Methyl<br>Methacrylate       | SAM | 8/14/2025<br>7:49:25<br>AM | MMDadoda | 8/18/2025<br>8:42:16<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC0.5 | VL042845.D | t-1,3-<br>Dichloropropene    | SAM | 8/14/2025<br>7:49:25<br>AM | MMDadoda | 8/18/2025<br>8:42:16<br>AM | Peak<br>Integrated<br>by Software<br>incorrectly |
| VSTDIC0.5 | VL042845.D | Toluene                      | SAM | 8/14/2025<br>7:49:25       | MMDadoda | 8/18/2025<br>8:42:16       | Peak<br>Integrated                               |

|            |            |                           |     |                      |          |                      |                                         |
|------------|------------|---------------------------|-----|----------------------|----------|----------------------|-----------------------------------------|
|            |            |                           |     | AM                   |          | AM                   | by Software incorrectly                 |
| VSTDIC0.1  | VL042846.D | 1,1,1-Trichloroethane     | SAM | 8/14/2025 7:48:23 AM | MMDadoda | 8/18/2025 8:42:18 AM | Peak Integrated by Software incorrectly |
| VSTDIC0.1  | VL042846.D | 1,2-Dibromoethane         | SAM | 8/14/2025 7:48:23 AM | MMDadoda | 8/18/2025 8:42:18 AM | Peak Integrated by Software incorrectly |
| VSTDIC0.1  | VL042846.D | Naphthalene               | SAM | 8/14/2025 7:48:23 AM | MMDadoda | 8/18/2025 8:42:18 AM | Peak Integrated by Software incorrectly |
| VSTDIC0.1  | VL042846.D | Tetrachloroethene         | SAM | 8/14/2025 7:48:23 AM | MMDadoda | 8/18/2025 8:42:18 AM | Peak Integrated by Software incorrectly |
| VSTDIC0.1  | VL042846.D | Trichloroethene           | SAM | 8/14/2025 7:48:23 AM | MMDadoda | 8/18/2025 8:42:18 AM | Peak Integrated by Software incorrectly |
| VSTDIC0.03 | VL042847.D | 1,1,1-Trichloroethane     | SAM | 8/14/2025 7:49:29 AM | MMDadoda | 8/18/2025 8:42:20 AM | Peak Integrated by Software incorrectly |
| VSTDIC0.03 | VL042847.D | 1,1,2,2-Tetrachloroethane | SAM | 8/14/2025 7:49:29 AM | MMDadoda | 8/18/2025 8:42:20 AM | Peak Integrated by Software incorrectly |
| VSTDIC0.03 | VL042847.D | Carbon Tetrachloride      | SAM | 8/14/2025 7:49:29 AM | MMDadoda | 8/18/2025 8:42:20 AM | Peak Integrated by Software incorrectly |
| VSTDIC0.03 | VL042847.D | Tetrachloroethene         | SAM | 8/14/2025 7:49:29 AM | MMDadoda | 8/18/2025 8:42:20 AM | Peak Integrated by Software incorrectly |
| VSTDIC0.03 | VL042847.D | Trichloroethene           | SAM | 8/14/2025 7:49:29 AM | MMDadoda | 8/18/2025 8:42:20 AM | Peak Integrated by Software incorrectly |
| VSTDIC015  | VL042848.D | m/p-Xylene                | SAM | 8/14/2025 7:49:35 AM | MMDadoda | 8/18/2025 8:42:35 AM | Peak Integrated by Software incorrectly |
| VSTDICV010 | VL042849.D | cis-1,3-Dichloropropene   | SAM | 8/14/2025 7:48:28 AM | MMDadoda | 8/18/2025 8:42:37 AM | Peak Integrated by Software incorrectly |
| VSTDICV010 | VL042849.D | m/p-Xylene                | SAM | 8/14/2025 7:48:28 AM | MMDadoda | 8/18/2025 8:42:37 AM | Peak Integrated by Software incorrectly |

|          |          |            |         |
|----------|----------|------------|---------|
| Sequence | VL090825 | Instrument | MSVOA_I |
|----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter           | Review By | Review On               | Supervised By | Supervised On           | Reason                                  |
|-------------|------------|---------------------|-----------|-------------------------|---------------|-------------------------|-----------------------------------------|
| VSTDCCC010  | VL042900.D | m/p-Xylene          | sam       | 9/9/2025<br>12:26:34 PM | MMDadoda      | 9/11/2025<br>5:28:20 PM | Peak Integrated by Software incorrectly |
| VL0908ABS01 | VL042902.D | m/p-Xylene          | sam       | 9/9/2025<br>12:26:38 PM | MMDadoda      | 9/11/2025<br>5:24:29 PM | Peak Integrated by Software incorrectly |
| VL0908ABS01 | VL042902.D | Propene             | sam       | 9/9/2025<br>12:26:38 PM | MMDadoda      | 9/11/2025<br>5:24:29 PM | Peak Integrated by Software incorrectly |
| Q3037-01DUP | VL042905.D | Benzene             | sam       | 9/9/2025<br>12:31:10 PM | MMDadoda      | 9/11/2025<br>5:28:16 PM | Peak Integrated by Software incorrectly |
| Q3037-01DUP | VL042905.D | m/p-Xylene          | sam       | 9/9/2025<br>12:31:10 PM | MMDadoda      | 9/11/2025<br>5:28:16 PM | Peak Integrated by Software incorrectly |
| Q3037-01DUP | VL042905.D | Methyl Methacrylate | sam       | 9/9/2025<br>12:31:10 PM | MMDadoda      | 9/11/2025<br>5:28:16 PM | Peak Integrated by Software incorrectly |
| Q3037-01DUP | VL042905.D | n-propylbenzene     | sam       | 9/9/2025<br>12:31:10 PM | MMDadoda      | 9/11/2025<br>5:28:16 PM | Peak Integrated by Software incorrectly |
| Q3037-01DUP | VL042905.D | Propene             | sam       | 9/9/2025<br>12:31:10 PM | MMDadoda      | 9/11/2025<br>5:28:16 PM | Peak Integrated by Software incorrectly |

|             |            |                        |     |                      |          |                      |                                         |
|-------------|------------|------------------------|-----|----------------------|----------|----------------------|-----------------------------------------|
| Q3037-01DUP | VL042905.D | Tetrahydrofuran        | sam | 9/9/2025 12:31:10 PM | MMDadoda | 9/11/2025 5:28:16 PM | Peak Integrated by Software incorrectly |
| Q3037-01DUP | VL042905.D | Toluene                | sam | 9/9/2025 12:31:10 PM | MMDadoda | 9/11/2025 5:28:16 PM | Peak Integrated by Software incorrectly |
| Q3037-01DUP | VL042905.D | Trichlorofluoromethane | sam | 9/9/2025 12:31:10 PM | MMDadoda | 9/11/2025 5:28:16 PM | Peak Integrated by Software incorrectly |
| Q3037-01DUP | VL042905.D | Vinyl Acetate          | sam | 9/9/2025 12:31:10 PM | MMDadoda | 9/11/2025 5:28:16 PM | Peak Integrated by Software incorrectly |
| Q3038-01    | VL042906.D | Trichloroethene        | sam | 9/9/2025 12:31:51 PM | MMDadoda | 9/11/2025 5:25:29 PM | Peak Integrated by Software incorrectly |

#### F. Manual Integration Comments:

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

---

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

Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “ Results Qualifiers” are used:

|           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value     | If the result is a value greater than or equal to the detection limit, report the value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>U</b>  | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.                                                                                                                                                                                                                                                                                      |
| <b>ND</b> | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>J</b>  | Indicates an estimated value. This flag is used: <ul style="list-style-type: none"> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others.</li> </ul> |
| <b>B</b>  | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>E</b>  | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>D</b>  | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>P</b>  | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>N</b>  | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.                                                                                                                                                                                                                                                                       |
| <b>A</b>  | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Q</b>  | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q3038

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 09/18/2025

LAB CHRONICLE

|                 |                      |                   |                                              |
|-----------------|----------------------|-------------------|----------------------------------------------|
| <b>OrderID:</b> | Q3038                | <b>OrderDate:</b> | 9/8/2025 8:56:00 AM                          |
| <b>Client:</b>  | Apex Companies, LLC. | <b>Project:</b>   | Emerson Vapor Intrusion                      |
| <b>Contact:</b> | Michael Dziedzic     | <b>Location:</b>  | REC-006-0309910-25011690<br>At Call 09/05/25 |

| LabID    | ClientID | Matrix | Test         | Method | Sample Date | Prep Date | Anal Date | Received |
|----------|----------|--------|--------------|--------|-------------|-----------|-----------|----------|
| Q3038-01 | SV-1     | Air    | VOCMS Group2 | TO-15  | 09/05/25    |           | 09/08/25  | 09/05/25 |

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q3038  
**Client:** Apex Companies, LLC.

| Sample ID         | Client ID   | Matrix | Parameter                   | Concentration | C   | MDL  | RDL  | Units |
|-------------------|-------------|--------|-----------------------------|---------------|-----|------|------|-------|
| <b>Client ID:</b> | <b>SV-1</b> |        |                             |               |     |      |      |       |
| Q3038-01          | SV-1        | Air    | Trichloroethene             | 2.15          |     | 0.54 | 0.64 | ug/m3 |
| Q3038-01          | SV-1        | Air    | Tetrachloroethene           | 317           |     | 0.41 | 0.81 | ug/m3 |
|                   |             |        | <b>Total Voc :</b>          |               | 320 |      |      |       |
|                   |             |        | <b>Total Concentration:</b> |               | 320 |      |      |       |



**Project :** Emerson Vapor Intrusion REG006-0309010-25011690

**Sampling Date :** 09/05/25

**Field Id Number :** SV-1

**Analysis Date :** 09/08/25

**Laboratory Id Number :** Q3038-01

**Target Analyts :** Air Results

| Chemical           | Cas Number | Molecular Weight | Insert Results in PPBV | Qualifier | Generate Results in ug/m3 | QAS Decision | Foot Notes |
|--------------------|------------|------------------|------------------------|-----------|---------------------------|--------------|------------|
| Vinyl Chloride     | 75-01-4    | 62.5             | 0.1                    | U         | 0.26                      |              |            |
| 1,2-Dichloroethane | 107-06-2   | 98.96            | 0.37                   | U         | 1.5                       |              |            |
| Trichloroethene    | 79-01-6    | 131.4            | 0.4                    |           | 2.15                      |              |            |
| Tetrachloroethene  | 127-18-4   | 165.8            | 46.8                   |           | 317                       |              |            |

| Method | Matrix | Parameter                      | Instrument ID | Column ID | MDL (ppbv) | RL (ppbv) | MB Data | MB Datafile | StdevVal    |
|--------|--------|--------------------------------|---------------|-----------|------------|-----------|---------|-------------|-------------|
| TO-15  | Air    | 1,1,1,2-Tetrachloroethane      | MSVOA_L       | RTX-1     | 0.089      | 0.50      | 0       |             | 0.028115408 |
| TO-15  | Air    | 1,1,1-Trichloroethane          | MSVOA_L       | RTX-1     | 0.016      | 0.030     | 0       |             | 0.005089672 |
| TO-15  | Air    | 1,1,2,2-Tetrachloroethane      | MSVOA_L       | RTX-1     | 0.018      | 0.030     | 0       |             | 0.005472877 |
| TO-15  | Air    | 1,1,2-Trichloroethane          | MSVOA_L       | RTX-1     | 0.081      | 0.50      | 0       |             | 0.02572751  |
| TO-15  | Air    | 1,1,2-Trichlorotrifluoroethane | MSVOA_L       | RTX-1     | 0.14       | 0.50      | 0       |             | 0.042983939 |
| TO-15  | Air    | 1,1-Dichloroethane             | MSVOA_L       | RTX-1     | 0.13       | 0.50      | 0       |             | 0.040178175 |
| TO-15  | Air    | 1,1-Dichloroethene             | MSVOA_L       | RTX-1     | 0.15       | 0.50      | 0       |             | 0.047056197 |
| TO-15  | Air    | 1,2,4-Trichlorobenzene         | MSVOA_L       | RTX-1     | 0.21       | 0.50      | 0       |             | 0.064291005 |
| TO-15  | Air    | 1,2,4-Trimethylbenzene         | MSVOA_L       | RTX-1     | 0.18       | 0.50      | 0       |             | 0.054467115 |
| TO-15  | Air    | 1,2-Dibromoethane              | MSVOA_L       | RTX-1     | 0.085      | 0.10      | 0       |             | 0.026726124 |
| TO-15  | Air    | 1,2-Dichlorobenzene            | MSVOA_L       | RTX-1     | 0.13       | 0.50      | 0       |             | 0.040999419 |
| TO-15  | Air    | 1,2-Dichloroethane             | MSVOA_L       | RTX-1     | 0.093      | 0.50      | 0       |             | 0.029277002 |
| TO-15  | Air    | 1,2-Dichloropropane            | MSVOA_L       | RTX-1     | 0.13       | 0.50      | 0       |             | 0.039880775 |
| TO-15  | Air    | 1,3,5-Trimethylbenzene         | MSVOA_L       | RTX-1     | 0.18       | 0.50      | 0       |             | 0.054598099 |
| TO-15  | Air    | 1,3-Butadiene                  | MSVOA_L       | RTX-1     | 0.051      | 0.50      | 0       |             | 0.016035675 |
| TO-15  | Air    | 1,3-Dichlorobenzene            | MSVOA_L       | RTX-1     | 0.054      | 0.50      | 0       |             | 0.017043362 |
| TO-15  | Air    | 1,4-Dichlorobenzene            | MSVOA_L       | RTX-1     | 0.13       | 0.50      | 0       |             | 0.039460649 |
| TO-15  | Air    | 1,4-Dioxane                    | MSVOA_L       | RTX-1     | 0.22       | 0.50      | 0       |             | 0.067330033 |
| TO-15  | Air    | 2,2,4-Trimethylpentane         | MSVOA_L       | RTX-1     | 0.14       | 0.50      | 0       |             | 0.044131837 |
| TO-15  | Air    | 2-Butanone                     | MSVOA_L       | RTX-1     | 0.056      | 0.50      | 0       |             | 0.017728105 |
| TO-15  | Air    | 2-Chlorotoluene                | MSVOA_L       | RTX-1     | 0.17       | 0.50      | 0       |             | 0.052599113 |
| TO-15  | Air    | 2-Hexanone                     | MSVOA_L       | RTX-1     | 0.11       | 0.50      | 0       |             | 0.033523268 |
| TO-15  | Air    | 4-Ethyltoluene                 | MSVOA_L       | RTX-1     | 0.21       | 0.50      | 0       |             | 0.066332496 |
| TO-15  | Air    | 4-Methyl-2-Pentanone           | MSVOA_L       | RTX-1     | 0.097      | 0.50      | 0       |             | 0.030783422 |
| TO-15  | Air    | Acetone                        | MSVOA_L       | RTX-1     | 0.18       | 0.50      | 0       |             | 0.055592052 |
| TO-15  | Air    | Allyl Chloride                 | MSVOA_L       | RTX-1     | 0.11       | 0.50      | 0       |             | 0.033380918 |
| TO-15  | Air    | Benzene                        | MSVOA_L       | RTX-1     | 0.079      | 0.50      | 0       |             | 0.025071327 |
| TO-15  | Air    | Benzyl Chloride                | MSVOA_L       | RTX-1     | 0.089      | 0.50      | 0       |             | 0.028284271 |
| TO-15  | Air    | Bromodichloromethane           | MSVOA_L       | RTX-1     | 0.063      | 0.50      | 0       |             | 0.019880596 |
| TO-15  | Air    | Bromoethene                    | MSVOA_L       | RTX-1     | 0.2        | 0.50      | 0       |             | 0.062678317 |
| TO-15  | Air    | Bromoform                      | MSVOA_L       | RTX-1     | 0.048      | 0.50      | 0       |             | 0.015118579 |
| TO-15  | Air    | Bromomethane                   | MSVOA_L       | RTX-1     | 0.077      | 0.50      | 0       |             | 0.024494897 |
| TO-15  | Air    | Carbon Disulfide               | MSVOA_L       | RTX-1     | 0.08       | 0.50      | 0       |             | 0.02544836  |
| TO-15  | Air    | Carbon Tetrachloride           | MSVOA_L       | RTX-1     | 0.025      | 0.030     | 0       |             | 0.007690439 |
| TO-15  | Air    | Chlorobenzene                  | MSVOA_L       | RTX-1     | 0.077      | 0.50      | 0       |             | 0.024397502 |
| TO-15  | Air    | Chlorodifluoromethane          | MSVOA_L       | RTX-1     | 0.12       | 0.50      | 0       |             | 0.037859389 |
| TO-15  | Air    | Chloroethane                   | MSVOA_L       | RTX-1     | 0.15       | 0.50      | 0       |             | 0.045250625 |
| TO-15  | Air    | Chloroform                     | MSVOA_L       | RTX-1     | 0.096      | 0.50      | 0       |             | 0.030394235 |
| TO-15  | Air    | Chloromethane                  | MSVOA_L       | RTX-1     | 0.098      | 0.50      | 0       |             | 0.03101459  |
| TO-15  | Air    | cis-1,2-Dichloroethene         | MSVOA_L       | RTX-1     | 0.099      | 0.50      | 0       |             | 0.031471832 |
| TO-15  | Air    | cis-1,3-Dichloropropene        | MSVOA_L       | RTX-1     | 0.11       | 0.50      | 0       |             | 0.032071349 |
| TO-15  | Air    | Cyclohexane                    | MSVOA_L       | RTX-1     | 0.22       | 0.50      | 0       |             | 0.06972736  |
| TO-15  | Air    | Dibromochloromethane           | MSVOA_L       | RTX-1     | 0.085      | 0.50      | 0       |             | 0.026726124 |
| TO-15  | Air    | Dichlorodifluoromethane        | MSVOA_L       | RTX-1     | 0.11       | 0.50      | 0       |             | 0.033380918 |
| TO-15  | Air    | Dichlorotetrafluoroethane      | MSVOA_L       | RTX-1     | 0.15       | 0.50      | 0       |             | 0.045460606 |
| TO-15  | Air    | Ethanol                        | MSVOA_L       | RTX-1     | 0.32       | 0.50      | 0       |             | 0.098848128 |
| TO-15  | Air    | Ethyl Acetate                  | MSVOA_L       | RTX-1     | 0.12       | 0.50      | 0       |             | 0.036384193 |
| TO-15  | Air    | Ethyl Benzene                  | MSVOA_L       | RTX-1     | 0.19       | 0.50      | 0       |             | 0.058554004 |
| TO-15  | Air    | Heptane                        | MSVOA_L       | RTX-1     | 0.17       | 0.50      | 0       |             | 0.051130086 |
| TO-15  | Air    | Hexachloro-1,3-Butadiene       | MSVOA_L       | RTX-1     | 0.13       | 0.50      | 0       |             | 0.038297084 |
| TO-15  | Air    | Hexane                         | MSVOA_L       | RTX-1     | 0.16       | 0.50      | 0       |             | 0.04894117  |
| TO-15  | Air    | Isopropyl Alcohol              | MSVOA_L       | RTX-1     | 0.23       | 0.50      | 0       |             | 0.070676998 |
| TO-15  | Air    | Isopropylbenzene               | MSVOA_L       | RTX-1     | 0.16       | 0.50      | 0       |             | 0.048205908 |
| TO-15  | Air    | m/p-Xylene                     | MSVOA_L       | RTX-1     | 0.41       | 1.00      | 0       |             | 0.130091543 |
| TO-15  | Air    | Methyl Methacrylate            | MSVOA_L       | RTX-1     | 0.14       | 0.50      | 0       |             | 0.044131837 |
| TO-15  | Air    | Methyl tert-Butyl Ether        | MSVOA_L       | RTX-1     | 0.23       | 0.50      | 0       |             | 0.07296444  |
| TO-15  | Air    | Methylene Chloride             | MSVOA_L       | RTX-1     | 0.23       | 0.50      | 0       |             | 0.07204496  |
| TO-15  | Air    | Naphthalene                    | MSVOA_L       | RTX-1     | 0.013      | 0.10      | 0       |             | 0.004076647 |
| TO-15  | Air    | Naphthalene,2-methyl-          | MSVOA_L       | RTX-1     | 0.22       | 0.50      | 0       |             | 0.069213266 |
| TO-15  | Air    | n-Butylbenzene                 | MSVOA_L       | RTX-1     | 0.18       | 0.50      | 0       |             | 0.055805786 |
| TO-15  | Air    | n-propylbenzene                | MSVOA_L       | RTX-1     | 0.2        | 0.50      | 0       |             | 0.06164414  |
| TO-15  | Air    | o-Xylene                       | MSVOA_L       | RTX-1     | 0.21       | 0.50      | 0       |             | 0.06491753  |
| TO-15  | Air    | p-Isopropyltoluene             | MSVOA_L       | RTX-1     | 0.19       | 0.50      | 0       |             | 0.059561893 |
| TO-15  | Air    | Propene                        | MSVOA_L       | RTX-1     | 0.077      | 0.50      | 0       |             | 0.024397502 |
| TO-15  | Air    | sec-Butylbenzene               | MSVOA_L       | RTX-1     | 0.2        | 0.50      | 0       |             | 0.061913919 |
| TO-15  | Air    | Styrene                        | MSVOA_L       | RTX-1     | 0.16       | 0.50      | 0       |             | 0.05        |
| TO-15  | Air    | t-1,3-Dichloropropene          | MSVOA_L       | RTX-1     | 0.15       | 0.50      | 0       |             | 0.046496288 |
| TO-15  | Air    | tert-Butyl alcohol             | MSVOA_L       | RTX-1     | 0.16       | 0.50      | 0       |             | 0.048892496 |
| TO-15  | Air    | tert-Butylbenzene              | MSVOA_L       | RTX-1     | 0.22       | 0.50      | 0       |             | 0.067928534 |
| TO-15  | Air    | Tetrachloroethene              | MSVOA_L       | RTX-1     | 0.015      | 0.030     | 0       |             | 0.004725816 |
| TO-15  | Air    | Tetrahydrofuran                | MSVOA_L       | RTX-1     | 0.08       | 0.50      | 0       |             | 0.025166115 |
| TO-15  | Air    | Toluene                        | MSVOA_L       | RTX-1     | 0.16       | 0.50      | 0       |             | 0.050142654 |
| TO-15  | Air    | trans-1,2-Dichloroethene       | MSVOA_L       | RTX-1     | 0.12       | 0.50      | 0       |             | 0.036968455 |
| TO-15  | Air    | Trichloroethene                | MSVOA_L       | RTX-1     | 0.024      | 0.030     | 0       |             | 0.007587584 |
| TO-15  | Air    | Trichlorofluoromethane         | MSVOA_L       | RTX-1     | 0.17       | 0.50      | 0       |             | 0.053452248 |
| TO-15  | Air    | Vinyl Acetate                  | MSVOA_L       | RTX-1     | 0.26       | 0.50      | 0       |             | 0.079671946 |
| TO-15  | Air    | Vinyl Chloride                 | MSVOA_L       | RTX-1     | 0.025      | 0.030     | 0       |             | 0.007955232 |

| Students | Spike_Amt_A | Datafile1  | Concentration1 | Adate1            | Datafile2  | Concentration2 | Adate2            |
|----------|-------------|------------|----------------|-------------------|------------|----------------|-------------------|
| Value    | dded        |            |                |                   |            |                |                   |
| 3.143    | 0.4         | VL041877.D | 0.48           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.03        | VL041883.D | 0.037          | 01102025T00:17:00 | VL041884.D | 0.04           | 01102025T00:47:00 |
| 3.143    | 0.03        | VL041883.D | 0.045          | 01102025T00:17:00 | VL041884.D | 0.04           | 01102025T00:47:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.52           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.54           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.51           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.5            | 01092025T21:16:00 | VL041878.D | 0.53           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.43           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.48           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.52           | 01092025T21:16:00 | VL041878.D | 0.51           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.52           | 01092025T21:16:00 | VL041878.D | 0.54           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.49           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.44           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.52           | 01092025T21:16:00 | VL041878.D | 0.54           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.49           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.48           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.49           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.41           | 01092025T21:16:00 | VL041878.D | 0.38           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.44           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.43           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.6            | 01092025T21:16:00 | VL041878.D | 0.62           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.51           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.31           | 01092025T21:16:00 | VL041878.D | 0.29           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.44           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.49           | 01092025T21:16:00 | VL041878.D | 0.53           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.36           | 01092025T21:16:00 | VL041878.D | 0.35           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.49           | 01092025T21:16:00 | VL041878.D | 0.52           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.41           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.03        | VL041883.D | 0.036          | 01102025T00:17:00 | VL041884.D | 0.038          | 01102025T00:47:00 |
| 3.143    | 0.4         | VL041877.D | 0.5            | 01092025T21:16:00 | VL041878.D | 0.48           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.57           | 01092025T21:16:00 | VL041878.D | 0.59           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.51           | 01092025T21:16:00 | VL041878.D | 0.5            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.54           | 01092025T21:16:00 | VL041878.D | 0.51           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.48           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.41           | 01092025T21:16:00 | VL041878.D | 0.4            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.39           | 01092025T21:16:00 | VL041878.D | 0.4            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.51           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.52           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL042501.D | 0.885          | 05062025T17:36:00 | VL042502.D | 0.76           | 05062025T18:07:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.43           | 01092025T21:16:00 | VL041878.D | 0.44           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.43           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.49           | 01092025T21:16:00 | VL041878.D | 0.5            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.59           | 01092025T21:16:00 | VL041878.D | 0.6            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.91           | 01092025T21:16:00 | VL041878.D | 0.91           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.41           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.4            | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.68           | 01092025T21:16:00 | VL041878.D | 0.61           | 01092025T21:46:00 |
| 3.143    | 0.04        | VL042504.D | 0.035          | 05062025T19:10:00 | VL042505.D | 0.04           | 05062025T19:42:00 |
| 3.143    | 0.4         | VL041877.D | 0.34           | 01092025T21:16:00 | VL041878.D | 0.34           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.43           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.44           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.44           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.48           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.42           | 01092025T21:16:00 | VL041878.D | 0.4            | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.41           | 01092025T21:16:00 | VL041878.D | 0.36           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.5            | 01092025T21:16:00 | VL041878.D | 0.45           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.46           | 01092025T21:16:00 | VL041878.D | 0.46           | 01092025T21:46:00 |
| 3.143    | 0.03        | VL041883.D | 0.037          | 01102025T00:17:00 | VL041884.D | 0.04           | 01102025T00:47:00 |
| 3.143    | 0.4         | VL041877.D | 0.47           | 01092025T21:16:00 | VL041878.D | 0.43           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.43           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.45           | 01092025T21:16:00 | VL041878.D | 0.52           | 01092025T21:46:00 |
| 3.143    | 0.03        | VL041883.D | 0.047          | 01102025T00:17:00 | VL041884.D | 0.047          | 01102025T00:47:00 |
| 3.143    | 0.4         | VL041877.D | 0.53           | 01092025T21:16:00 | VL041878.D | 0.52           | 01092025T21:46:00 |
| 3.143    | 0.4         | VL041877.D | 0.43           | 01092025T21:16:00 | VL041878.D | 0.47           | 01092025T21:46:00 |
| 3.143    | 0.03        | VL042498.D | 0.018          | 05062025T16:01:00 | VL042500.D | 0.032          | 05062025T17:04:00 |

| Datafile3  | Concentration3 | Adate3            | Datafile4  | Concentration4 | Adate4            | Datafile5  | Concentration5 |
|------------|----------------|-------------------|------------|----------------|-------------------|------------|----------------|
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.42           | 01152025T00:52:00 | VL041910.D | 0.4            |
| VL041885.D | 0.038          | 01102025T01:18:00 | VL041913.D | 0.033          | 01152025T02:53:00 | VL041914.D | 0.037          |
| VL041885.D | 0.044          | 01102025T01:18:00 | VL041913.D | 0.033          | 01152025T02:53:00 | VL041914.D | 0.032          |
| VL041879.D | 0.48           | 01092025T22:17:00 | VL041909.D | 0.44           | 01152025T00:52:00 | VL041910.D | 0.47           |
| VL041879.D | 0.55           | 01092025T22:17:00 | VL041909.D | 0.5            | 01152025T00:52:00 | VL041910.D | 0.47           |
| VL041879.D | 0.57           | 01092025T22:17:00 | VL041909.D | 0.5            | 01152025T00:52:00 | VL041910.D | 0.48           |
| VL041879.D | 0.58           | 01092025T22:17:00 | VL041909.D | 0.49           | 01152025T00:52:00 | VL041910.D | 0.49           |
| VL041879.D | 0.48           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.36           |
| VL041879.D | 0.47           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.39           |
| VL041879.D | 0.47           | 01092025T22:17:00 | VL041909.D | 0.46           | 01152025T00:52:00 | VL041910.D | 0.43           |
| VL041879.D | 0.53           | 01092025T22:17:00 | VL041909.D | 0.44           | 01152025T00:52:00 | VL041910.D | 0.43           |
| VL041879.D | 0.5            | 01092025T22:17:00 | VL041909.D | 0.47           | 01152025T00:52:00 | VL041910.D | 0.46           |
| VL041879.D | 0.5            | 01092025T22:17:00 | VL041909.D | 0.43           | 01152025T00:52:00 | VL041910.D | 0.42           |
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.34           |
| VL041879.D | 0.51           | 01092025T22:17:00 | VL041909.D | 0.5            | 01152025T00:52:00 | VL041910.D | 0.51           |
| VL041879.D | 0.48           | 01092025T22:17:00 | VL041909.D | 0.46           | 01152025T00:52:00 | VL041910.D | 0.44           |
| VL041879.D | 0.51           | 01092025T22:17:00 | VL041909.D | 0.43           | 01152025T00:52:00 | VL041910.D | 0.41           |
| VL041879.D | 0.5            | 01092025T22:17:00 | VL041909.D | 0.45           | 01152025T00:52:00 | VL041910.D | 0.47           |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.39           |
| VL041879.D | 0.49           | 01092025T22:17:00 | VL041909.D | 0.44           | 01152025T00:52:00 | VL041910.D | 0.44           |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.38           |
| VL041879.D | 0.39           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.36           |
| VL041879.D | 0.44           | 01092025T22:17:00 | VL041909.D | 0.33           | 01152025T00:52:00 | VL041910.D | 0.33           |
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.39           | 01152025T00:52:00 | VL041910.D | 0.37           |
| VL041879.D | 0.68           | 01092025T22:17:00 | VL041909.D | 0.53           | 01152025T00:52:00 | VL041910.D | 0.53           |
| VL041879.D | 0.5            | 01092025T22:17:00 | VL041909.D | 0.47           | 01152025T00:52:00 | VL041910.D | 0.5            |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.42           | 01152025T00:52:00 | VL041910.D | 0.41           |
| VL041879.D | 0.28           | 01092025T22:17:00 | VL041909.D | 0.26           | 01152025T00:52:00 | VL041910.D | 0.34           |
| VL041879.D | 0.44           | 01092025T22:17:00 | VL041909.D | 0.4            | 01152025T00:52:00 | VL041910.D | 0.4            |
| VL041879.D | 0.55           | 01092025T22:17:00 | VL041909.D | 0.44           | 01152025T00:52:00 | VL041910.D | 0.52           |
| VL041879.D | 0.37           | 01092025T22:17:00 | VL041909.D | 0.33           | 01152025T00:52:00 | VL041910.D | 0.34           |
| VL041879.D | 0.53           | 01092025T22:17:00 | VL041909.D | 0.47           | 01152025T00:52:00 | VL041910.D | 0.5            |
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.41           | 01152025T00:52:00 | VL041910.D | 0.4            |
| VL041885.D | 0.048          | 01102025T01:18:00 | VL041913.D | 0.026          | 01152025T02:53:00 | VL041914.D | 0.033          |
| VL041879.D | 0.52           | 01092025T22:17:00 | VL041909.D | 0.45           | 01152025T00:52:00 | VL041910.D | 0.46           |
| VL041879.D | 0.51           | 01092025T22:17:00 | VL041909.D | 0.42           | 01152025T00:52:00 | VL041910.D | 0.42           |
| VL041879.D | 0.52           | 01092025T22:17:00 | VL041909.D | 0.46           | 01152025T00:52:00 | VL041910.D | 0.5            |
| VL041879.D | 0.53           | 01092025T22:17:00 | VL041909.D | 0.45           | 01152025T00:52:00 | VL041910.D | 0.46           |
| VL041879.D | 0.53           | 01092025T22:17:00 | VL041909.D | 0.52           | 01152025T00:52:00 | VL041910.D | 0.45           |
| VL041879.D | 0.49           | 01092025T22:17:00 | VL041909.D | 0.43           | 01152025T00:52:00 | VL041910.D | 0.42           |
| VL041879.D | 0.38           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.34           |
| VL041879.D | 0.5            | 01092025T22:17:00 | VL041909.D | 0.35           | 01152025T00:52:00 | VL041910.D | 0.35           |
| VL041879.D | 0.41           | 01092025T22:17:00 | VL041909.D | 0.33           | 01152025T00:52:00 | VL041910.D | 0.38           |
| VL041879.D | 0.56           | 01092025T22:17:00 | VL041909.D | 0.46           | 01152025T00:52:00 | VL041910.D | 0.5            |
| VL041879.D | 0.56           | 01092025T22:17:00 | VL041909.D | 0.46           | 01152025T00:52:00 | VL041910.D | 0.46           |
| VL042503.D | 0.611          | 05062025T18:39:00 | VL042518.D | 0.831          | 05072025T15:02:00 | VL042519.D | 0.842          |
| VL041879.D | 0.47           | 01092025T22:17:00 | VL041909.D | 0.41           | 01152025T00:52:00 | VL041910.D | 0.38           |
| VL041879.D | 0.44           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.35           |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.37           |
| VL041879.D | 0.51           | 01092025T22:17:00 | VL041909.D | 0.42           | 01152025T00:52:00 | VL041910.D | 0.43           |
| VL041879.D | 0.49           | 01092025T22:17:00 | VL041909.D | 0.42           | 01152025T00:52:00 | VL041910.D | 0.38           |
| VL041879.D | 0.63           | 01092025T22:17:00 | VL041909.D | 0.5            | 01152025T00:52:00 | VL041910.D | 0.5            |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.38           |
| VL041879.D | 0.92           | 01092025T22:17:00 | VL041909.D | 0.72           | 01152025T00:52:00 | VL041910.D | 0.69           |
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.36           | 01152025T00:52:00 | VL041910.D | 0.35           |
| VL041879.D | 0.42           | 01092025T22:17:00 | VL041909.D | 0.33           | 01152025T00:52:00 | VL041910.D | 0.52           |
| VL041879.D | 0.63           | 01092025T22:17:00 | VL041909.D | 0.54           | 01152025T00:52:00 | VL041910.D | 0.57           |
| VL042506.D | 0.04           | 05062025T20:13:00 | VL042521.D | 0.031          | 05072025T16:49:00 | VL042522.D | 0.032          |
| VL041879.D | 0.33           | 01092025T22:17:00 | VL041909.D | 0.28           | 01152025T00:52:00 | VL041910.D | 0.25           |
| VL041879.D | 0.42           | 01092025T22:17:00 | VL041909.D | 0.33           | 01152025T00:52:00 | VL041910.D | 0.34           |
| VL041879.D | 0.43           | 01092025T22:17:00 | VL041909.D | 0.36           | 01152025T00:52:00 | VL041910.D | 0.33           |
| VL041879.D | 0.47           | 01092025T22:17:00 | VL041909.D | 0.35           | 01152025T00:52:00 | VL041910.D | 0.35           |
| VL041879.D | 0.44           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.36           |
| VL041879.D | 0.52           | 01092025T22:17:00 | VL041909.D | 0.5            | 01152025T00:52:00 | VL041910.D | 0.48           |
| VL041879.D | 0.45           | 01092025T22:17:00 | VL041909.D | 0.38           | 01152025T00:52:00 | VL041910.D | 0.36           |
| VL041879.D | 0.38           | 01092025T22:17:00 | VL041909.D | 0.34           | 01152025T00:52:00 | VL041910.D | 0.31           |
| VL041879.D | 0.38           | 01092025T22:17:00 | VL041909.D | 0.36           | 01152025T00:52:00 | VL041910.D | 0.33           |
| VL041879.D | 0.52           | 01092025T22:17:00 | VL041909.D | 0.47           | 01152025T00:52:00 | VL041910.D | 0.41           |
| VL041879.D | 0.46           | 01092025T22:17:00 | VL041909.D | 0.36           | 01152025T00:52:00 | VL041910.D | 0.37           |
| VL041885.D | 0.034          | 01102025T01:18:00 | VL041913.D | 0.037          | 01152025T02:53:00 | VL041914.D | 0.034          |
| VL041879.D | 0.41           | 01092025T22:17:00 | VL041909.D | 0.41           | 01152025T00:52:00 | VL041910.D | 0.42           |
| VL041879.D | 0.44           | 01092025T22:17:00 | VL041909.D | 0.37           | 01152025T00:52:00 | VL041910.D | 0.36           |
| VL041879.D | 0.54           | 01092025T22:17:00 | VL041909.D | 0.47           | 01152025T00:52:00 | VL041910.D | 0.48           |
| VL041885.D | 0.035          | 01102025T01:18:00 | VL041913.D | 0.029          | 01152025T02:53:00 | VL041914.D | 0.033          |
| VL041879.D | 0.54           | 01092025T22:17:00 | VL041909.D | 0.45           | 01152025T00:52:00 | VL041910.D | 0.47           |
| VL041879.D | 0.56           | 01092025T22:17:00 | VL041909.D | 0.35           | 01152025T00:52:00 | VL041910.D | 0.44           |
| VL042515.D | 0.021          | 05072025T13:17:00 | VL042516.D | 0.021          | 05072025T13:50:00 | VL042517.D | 0.014          |

| Adate5            | Datafile6  | Concentration6 | Adate6            | Datafile7  | Concentration7 | Adate7            | Department |
|-------------------|------------|----------------|-------------------|------------|----------------|-------------------|------------|
| 01152025T01:23:00 | VL041932.D | 0.41           | 01202025T22:30:00 | VL041933.D | 0.43           | 01202025T23:00:00 | VOC        |
| 01152025T03:23:00 | VL041936.D | 0.028          | 01212025T00:31:00 | VL041940.D | 0.027          | 01212025T09:44:00 | VOC        |
| 01152025T03:23:00 | VL041936.D | 0.034          | 01212025T00:31:00 | VL041940.D | 0.034          | 01212025T09:44:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.49           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.44           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.45           | 01202025T22:30:00 | VL041933.D | 0.47           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.47           | 01202025T22:30:00 | VL041933.D | 0.43           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.34           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.35           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.45           | 01202025T22:30:00 | VL041933.D | 0.4            | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.45           | 01202025T22:30:00 | VL041933.D | 0.49           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.49           | 01202025T22:30:00 | VL041933.D | 0.47           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.5            | 01202025T22:30:00 | VL041933.D | 0.47           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.49           | 01202025T22:30:00 | VL041933.D | 0.52           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.45           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.42           | 01202025T22:30:00 | VL041933.D | 0.41           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.42           | 01202025T22:30:00 | VL041933.D | 0.3            | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.41           | 01202025T22:30:00 | VL041933.D | 0.37           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.47           | 01202025T22:30:00 | VL041933.D | 0.46           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.36           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.35           | 01202025T22:30:00 | VL041933.D | 0.31           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.31           | 01202025T22:30:00 | VL041933.D | 0.3            | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.38           | 01202025T22:30:00 | VL041933.D | 0.37           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.58           | 01202025T22:30:00 | VL041933.D | 0.54           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.43           | 01202025T22:30:00 | VL041933.D | 0.43           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.47           | 01202025T22:30:00 | VL041933.D | 0.43           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.29           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.42           | 01202025T22:30:00 | VL041933.D | 0.42           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.39           | 01202025T22:30:00 | VL041933.D | 0.41           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.34           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.47           | 01202025T22:30:00 | VL041933.D | 0.52           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.38           | 01202025T22:30:00 | VL041933.D | 0.38           | 01202025T23:00:00 | VOC        |
| 01152025T03:23:00 | VL041936.D | 0.029          | 01212025T00:31:00 | VL041940.D | 0.027          | 01212025T09:44:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.5            | 01202025T22:30:00 | VL041933.D | 0.48           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.51           | 01202025T22:30:00 | VL041933.D | 0.49           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.52           | 01202025T22:30:00 | VL041933.D | 0.49           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.47           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.5            | 01202025T22:30:00 | VL041933.D | 0.48           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.42           | 01202025T22:30:00 | VL041933.D | 0.41           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.35           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.37           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.38           | 01202025T22:30:00 | VL041933.D | 0.36           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.48           | 01202025T22:30:00 | VL041933.D | 0.51           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.45           | 01202025T22:30:00 | VL041933.D | 0.45           | 01202025T23:00:00 | VOC        |
| 05072025T15:37:00 | VL042520.D | 0.766          | 05072025T16:13:00 | VL042569.D | 0.664          | 05212025T16:53:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.39           | 01202025T22:30:00 | VL041933.D | 0.4            | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.32           | 01202025T22:30:00 | VL041933.D | 0.31           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.37           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.44           | 01202025T22:30:00 | VL041933.D | 0.43           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.4            | 01202025T22:30:00 | VL041933.D | 0.36           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.46           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.36           | 01202025T22:30:00 | VL041933.D | 0.35           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.64           | 01202025T22:30:00 | VL041933.D | 0.65           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.35           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.35           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.5            | 01202025T22:30:00 | VL041933.D | 0.48           | 01202025T23:00:00 | VOC        |
| 05072025T17:24:00 | VL042523.D | 0.03           | 05072025T17:58:00 | VL042567.D | 0.034          | 05212025T15:49:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.2            | 01202025T22:30:00 | VL041933.D | 0.17           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.31           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.31           | 01202025T22:30:00 | VL041933.D | 0.33           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.32           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.32           | 01202025T22:30:00 | VL041933.D | 0.32           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.5            | 01202025T22:30:00 | VL041933.D | 0.48           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.34           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.3            | 01202025T22:30:00 | VL041933.D | 0.3            | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.27           | 01202025T22:30:00 | VL041933.D | 0.31           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.44           | 01202025T22:30:00 | VL041933.D | 0.38           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.3            | 01202025T23:00:00 | VOC        |
| 01152025T03:23:00 | VL041936.D | 0.026          | 01212025T00:31:00 | VL041940.D | 0.03           | 01212025T09:44:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.39           | 01202025T22:30:00 | VL041933.D | 0.41           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.34           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.46           | 01202025T22:30:00 | VL041933.D | 0.44           | 01202025T23:00:00 | VOC        |
| 01152025T03:23:00 | VL041936.D | 0.033          | 01212025T00:31:00 | VL041940.D | 0.03           | 01212025T09:44:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.42           | 01202025T22:30:00 | VL041933.D | 0.41           | 01202025T23:00:00 | VOC        |
| 01152025T01:23:00 | VL041932.D | 0.33           | 01202025T22:30:00 | VL041933.D | 0.37           | 01202025T23:00:00 | VOC        |
| 05072025T14:29:00 | VL042575.D | 0.034          | 05222025T11:27:00 | VL042576.D | 0.032          | 05222025T11:59:00 | VOC        |

| AVG<br>Concentration | Recovery | Effective Date |
|----------------------|----------|----------------|
| 0.43                 | 108      | 5/22/2025      |
| 0.03                 | 114      | 5/22/2025      |
| 0.04                 | 125      | 5/22/2025      |
| 0.47                 | 119      | 5/22/2025      |
| 0.50                 | 125      | 5/22/2025      |
| 0.50                 | 125      | 5/22/2025      |
| 0.50                 | 125      | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.45                 | 112      | 5/22/2025      |
| 0.48                 | 120      | 5/22/2025      |
| 0.49                 | 123      | 5/22/2025      |
| 0.48                 | 119      | 5/22/2025      |
| 0.38                 | 95       | 5/22/2025      |
| 0.51                 | 128      | 5/22/2025      |
| 0.46                 | 116      | 5/22/2025      |
| 0.45                 | 112      | 5/22/2025      |
| 0.44                 | 110      | 5/22/2025      |
| 0.42                 | 105      | 5/22/2025      |
| 0.46                 | 115      | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.36                 | 91       | 5/22/2025      |
| 0.37                 | 93       | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.58                 | 146      | 5/22/2025      |
| 0.47                 | 118      | 5/22/2025      |
| 0.45                 | 111      | 5/22/2025      |
| 0.30                 | 75       | 5/22/2025      |
| 0.42                 | 106      | 5/22/2025      |
| 0.48                 | 119      | 5/22/2025      |
| 0.35                 | 86       | 5/22/2025      |
| 0.50                 | 125      | 5/22/2025      |
| 0.41                 | 102      | 5/22/2025      |
| 0.03                 | 113      | 5/22/2025      |
| 0.48                 | 121      | 5/22/2025      |
| 0.47                 | 118      | 5/22/2025      |
| 0.52                 | 130      | 5/22/2025      |
| 0.48                 | 121      | 5/22/2025      |
| 0.50                 | 126      | 5/22/2025      |
| 0.44                 | 111      | 5/22/2025      |
| 0.36                 | 91       | 5/22/2025      |
| 0.40                 | 101      | 5/22/2025      |
| 0.38                 | 95       | 5/22/2025      |
| 0.50                 | 125      | 5/22/2025      |
| 0.49                 | 123      | 5/22/2025      |
| 0.77                 | 191      | 5/22/2025      |
| 0.42                 | 106      | 5/22/2025      |
| 0.38                 | 94       | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.46                 | 115      | 5/22/2025      |
| 0.43                 | 106      | 5/22/2025      |
| 0.53                 | 134      | 5/22/2025      |
| 0.40                 | 101      | 5/22/2025      |
| 0.78                 | 194      | 5/22/2025      |
| 0.38                 | 95       | 5/22/2025      |
| 0.40                 | 101      | 5/22/2025      |
| 0.57                 | 143      | 5/22/2025      |
| 0.03                 | 86       | 5/22/2025      |
| 0.27                 | 68       | 5/22/2025      |
| 0.37                 | 93       | 5/22/2025      |
| 0.38                 | 95       | 5/22/2025      |
| 0.39                 | 97       | 5/22/2025      |
| 0.38                 | 95       | 5/22/2025      |
| 0.50                 | 124      | 5/22/2025      |
| 0.40                 | 100      | 5/22/2025      |
| 0.35                 | 88       | 5/22/2025      |
| 0.35                 | 86       | 5/22/2025      |
| 0.45                 | 113      | 5/22/2025      |
| 0.39                 | 98       | 5/22/2025      |
| 0.03                 | 113      | 5/22/2025      |
| 0.42                 | 105      | 5/22/2025      |
| 0.39                 | 97       | 5/22/2025      |
| 0.48                 | 120      | 5/22/2025      |
| 0.04                 | 121      | 5/22/2025      |
| 0.48                 | 119      | 5/22/2025      |
| 0.42                 | 105      | 5/22/2025      |
| 0.02                 | 82       | 5/22/2025      |

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# QC SUMMARY

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## Surrogate Summary

SDG No.: Q3038

Client: Apex Companies, LLC.

Analytical Method: SWTO-15

| Lab Sample ID | Client ID   | Parameter               | Spike | Result | Recovery (%) | Qual | Limits (%) |           |
|---------------|-------------|-------------------------|-------|--------|--------------|------|------------|-----------|
|               |             |                         |       |        |              |      | Low        | High      |
| Q3037-01DUP   | IA-2DUP     | 1-Bromo-4-Fluorobenzene | 10    | 10.4   | 104          |      | 70 (65)    | 130 (135) |
| Q3038-01      | SV-1        | 1-Bromo-4-Fluorobenzene | 10    | 9.77   | 98           |      | 70 (65)    | 130 (135) |
| VL0908ABL01   | VL0908ABL01 | 1-Bromo-4-Fluorobenzene | 10    | 10.2   | 102          |      | 70 (65)    | 130 (135) |
| VL0908ABS01   | VL0908ABS01 | 1-Bromo-4-Fluorobenzene | 10    | 10.5   | 105          |      | 70 (65)    | 130 (135) |



Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

|                 |                                    |                           |                          |
|-----------------|------------------------------------|---------------------------|--------------------------|
| <b>SDG No.:</b> | <u><b>Q3038</b></u>                | <b>Analytical Method:</b> | <u><b>SWTO-15</b></u>    |
| <b>Client:</b>  | <u><b>Apex Companies, LLC.</b></u> | <b>Datafile :</b>         | <u><b>VL042902.D</b></u> |

| Lab Sample ID      | Parameter          | Spike | Result | Unit | Rec | RPD | Qual | Low     | Limits<br>High | RPD |
|--------------------|--------------------|-------|--------|------|-----|-----|------|---------|----------------|-----|
| <b>VL0908ABS01</b> | Vinyl Chloride     | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)      |     |
|                    | 1,2-Dichloroethane | 10    | 12.7   | ppbv | 127 |     |      | 70 (70) | 130 (130)      |     |
|                    | Trichloroethene    | 10    | 10.4   | ppbv | 104 |     |      | 70 (70) | 130 (130)      |     |
|                    | Tetrachloroethene  | 10    | 9.60   | ppbv | 96  |     |      | 70 (70) | 130 (130)      |     |

() = LABORATORY INHOUSE LIMIT

### Duplicate Sample Summary

|                               |                  |                  |
|-------------------------------|------------------|------------------|
| <b>Lab Sample Id :</b>        | Q3037-01DUP      | Q3037-01         |
| <b>Client Id :</b>            | IA-2DUP          | IA-2             |
| <b>DF :</b>                   | 1                | 1                |
| <b>Datafile :</b>             | VL042905.D       | VL042904.D       |
| <b>Anal Date &amp; Time :</b> | 09/08/2025 15:59 | 09/08/2025 15:15 |

| Parameter          | Result | Result | RPD |
|--------------------|--------|--------|-----|
| 1,2-Dichloroethane | 0      | 0      | 0   |
| Tetrachloroethene  | 0      | 0      | 0   |
| Trichloroethene    | 0      | 0      | 0   |
| Vinyl Chloride     | 0      | 0      | 0   |

VOLATILE METHOD BLANK SUMMARY

Client ID

VL0908ABL01

Lab Name: Alliance

Contract: APEX04

Lab Code: ACE

SDG NO.: Q3038

Lab File ID: VL042901.D

Lab Sample ID: VL0908ABL01

Date Analyzed: 09/08/2025

Time Analyzed: 11:55

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: (Y/N) N

Instrument ID: MSVOA\_L

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

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-------------------|------------------|----------------|------------------|
| VL0908ABS01       | VL0908ABS01      | VL042902.D     | 09/08/2025       |
| IA-2DUP           | Q3037-01DUP      | VL042905.D     | 09/08/2025       |
| SV-1              | Q3038-01         | VL042906.D     | 09/08/2025       |

COMMENTS: \_\_\_\_\_

\_\_\_\_\_

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance

Contract: APEX04

Lab Code: ACE

SDG NO.: Q3038

Lab File ID: VL042841.D

BFB Injection Date: 08/13/2025

Instrument ID: MSVOA\_L

BFB Injection Time: 07:45

GC Column: RTX-1 ID: 0.32 (mm)

Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 20.8                 |
| 75  | 30.0 - 66.0% of mass 95            | 53.1                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.5                  |
| 173 | Less than 2.0% of mass 174         | 0.3 ( 0.4 ) 1        |
| 174 | 50.0 - 120.0% of mass 95           | 62                   |
| 175 | 4.0 - 9.0% of mass 174             | 4.5 ( 7.3 ) 1        |
| 176 | 93.0 - 101.0% of mass 174          | 60 ( 96.7 ) 1        |
| 177 | 5.0 - 9.0% of mass 176             | 3.7 ( 6.1 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID    | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|--------------|---------------|-------------|---------------|---------------|
| VSTDICCC010  | VSTDICCC010   | VL042842.D  | 08/13/2025    | 08:30         |
| VSTDICCC002  | VSTDICCC002   | VL042843.D  | 08/13/2025    | 09:06         |
| VSTDICCC001  | VSTDICCC001   | VL042844.D  | 08/13/2025    | 09:41         |
| VSTDICCC0.5  | VSTDICCC0.5   | VL042845.D  | 08/13/2025    | 10:17         |
| VSTDICCC0.1  | VSTDICCC0.1   | VL042846.D  | 08/13/2025    | 10:53         |
| VSTDICCC0.03 | VSTDICCC0.03  | VL042847.D  | 08/13/2025    | 11:30         |
| VSTDICCC015  | VSTDICCC015   | VL042848.D  | 08/13/2025    | 12:06         |

VOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
BROMOFLUOROBENZENE (BFB)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: VL042899.D  
Instrument ID: MSVOA\_L  
GC Column: RTX-1 ID: 0.32 (mm)

Contract: APEX04  
SDG NO.: Q3038  
BFB Injection Date: 09/08/2025  
BFB Injection Time: 08:41  
Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 50  | 8.0 - 40.0% of mass 95             | 23.4                 |
| 75  | 30.0 - 66.0% of mass 95            | 58.3                 |
| 95  | Base Peak, 100% relative abundance | 100                  |
| 96  | 5.0 - 9.0% of mass 95              | 6.4                  |
| 173 | Less than 2.0% of mass 174         | 0.5 ( 1 ) 1          |
| 174 | 50.0 - 120.0% of mass 95           | 55.2                 |
| 175 | 4.0 - 9.0% of mass 174             | 4 ( 7.3 ) 1          |
| 176 | 93.0 - 101.0% of mass 174          | 54.2 ( 98.3 ) 1      |
| 177 | 5.0 - 9.0% of mass 176             | 3.4 ( 6.3 ) 2        |

1-Value is % mass 174

2-Value is % mass 176

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

| CLIENT ID   | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|-------------|---------------|-------------|---------------|---------------|
| VSTDCCC010  | VSTDCCC010    | VL042900.D  | 09/08/2025    | 11:05         |
| VL0908ABL01 | VL0908ABL01   | VL042901.D  | 09/08/2025    | 11:55         |
| VL0908ABS01 | VL0908ABS01   | VL042902.D  | 09/08/2025    | 13:35         |
| IA-2DUP     | Q3037-01DUP   | VL042905.D  | 09/08/2025    | 15:59         |
| SV-1        | Q3038-01      | VL042906.D  | 09/08/2025    | 16:33         |

VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance Contract: APEX04  
 Lab Code: ACE SDG NO.: Q3038  
 Lab File ID: VL042900.D Date Analyzed: 09/08/2025  
 Instrument ID: MSVOA\_L Time Analyzed: 11:05  
 GC Column: RTX-1 ID: 0.32 (mm) Heated Purge: (Y/N) N

|                | IS1<br>AREA # | RT # | IS2<br>AREA # | RT # | IS3<br>AREA # | RT # |
|----------------|---------------|------|---------------|------|---------------|------|
| 12 HOUR STD    | 126678        | 2.78 | 333606        | 3.94 | 282770        | 8.87 |
| UPPER LIMIT    | 177349        | 3.11 | 467048        | 4.27 | 395878        | 9.20 |
| LOWER LIMIT    | 76006.8       | 2.45 | 200164        | 3.61 | 169662        | 8.54 |
| EPA SAMPLE NO. |               |      |               |      |               |      |
| IA-2DUP        | 141221        | 2.78 | 372044        | 3.95 | 303028        | 8.88 |
| SV-1           | 142770        | 2.78 | 358223        | 3.95 | 300604        | 8.87 |
| VL0908ABL01    | 141293        | 2.78 | 355217        | 3.95 | 298537        | 8.88 |
| VL0908ABS01    | 139945        | 2.78 | 365857        | 3.95 | 306385        | 8.87 |

IS1 = Bromochloromethane  
 IS2 = 1,4-Difluorobenzene  
 IS3 = Chlorobenzene-d5

AREA UPPER LIMIT = +40% of internal standard area  
 AREA LOWER LIMIT = -40% of internal standard area  
 RT UPPER LIMIT = +0.33 minutes of internal standard RT  
 RT LOWER LIMIT = -0.33 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.  
 \* Values outside of QC limits.



# SAMPLE DATA

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## Report of Analysis

|                    |                                                 |                 |              |
|--------------------|-------------------------------------------------|-----------------|--------------|
| Client:            | Apex Companies, LLC.                            | Date Collected: | 09/05/25     |
| Project:           | Emerson Vapor Intrusion REG006-0309010-25011690 | Date Received:  | 09/05/25     |
| Client Sample ID:  | SV-1                                            | SDG No.:        | Q3038        |
| Lab Sample ID:     | Q3038-01                                        | Matrix:         | Air          |
| Analytical Method: | TO-15                                           | Test:           | VOCMS Group2 |
| Sample Wt/Vol:     | 400      Units:    mL                           |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042906.D        | 4         |           | 09/08/25 16:33 | VL090825      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL<br>ug/m3        | LOQ / CRQL<br>ug/m3 |
|---------------------------|-------------------------|---------------|----------------|-----------|---------------------|---------------------|
| <b>TARGETS</b>            |                         |               |                |           |                     |                     |
| 75-01-4                   | Vinyl Chloride          | 0.10          | 0.26           | U         | 0.26                | 0.31                |
| 107-06-2                  | 1,2-Dichloroethane      | 0.37          | 1.50           | U         | 1.50                | 8.09                |
| 79-01-6                   | Trichloroethene         | 0.40          | 2.15           |           | 0.54                | 0.64                |
| 127-18-4                  | Tetrachloroethene       | 46.8          | 317            |           | 0.41                | 0.81                |
| <b>SURROGATES</b>         |                         |               |                |           |                     |                     |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 9.80          |                |           | 70 (65) - 130 (135) | 98%    SPK: 10      |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |                     |                     |
| 74-97-5                   | Bromochloromethane      | 143000        |                | 2.78      |                     |                     |
| 540-36-3                  | 1,4-Difluorobenzene     | 358000        |                | 3.949     |                     |                     |
| 3114-55-4                 | Chlorobenzene-d5        | 301000        |                | 8.872     |                     |                     |

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042906.D  
 Acq On : 08 Sep 2025 16:33  
 Operator : SY/MD  
 Sample : Q3038-01 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-1

Quant Time: Sep 09 00:57:47 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025  
 Supervised By : Mahesh Dadoda 09/11/2025

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.780  | 49    | 142770   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.949  | 114   | 358223   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.872  | 117   | 300604   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95    | 220147   | 9.765    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 97.700%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.492  | 85    | 2637     | 0.126    | ppbv   | 100      |
| 3) Chlorodifluoromethane    | 1.470  | 51    | 152267   | 6.584    | ppbv   | 94       |
| 4) Chloromethane            | 1.528  | 50    | 1401     | 0.166    | ppbv   | 88       |
| 13) Ethanol                 | 1.719  | 45    | 21534    | 23.579   | ppbv   | 93       |
| 15) Acetone                 | 1.832  | 43    | 117769   | 6.236    | ppbv   | 93       |
| 19) Isopropyl Alcohol       | 1.884  | 45    | 124685   | 11.054   | ppbv # | 37       |
| 20) Methylene Chloride      | 2.055  | 84    | 7932     | 1.003    | ppbv   | 86       |
| 26) Hexane                  | 2.819  | 57    | 18740    | 0.888    | ppbv # | 46       |
| 29) Chloroform              | 2.845  | 83    | 3811     | 0.127    | ppbv   | 91       |
| 34) 2-Butanone              | 2.554  | 43    | 83905    | 3.469    | ppbv   | 99       |
| 36) Benzene                 | 3.651  | 78    | 6417     | 0.187    | ppbv # | 74       |
| 38) Trichloroethene         | 4.535  | 130   | 1571m    | 0.100    | ppbv   |          |
| 52) Tetrachloroethene       | 8.218  | 164   | 145329   | 11.711   | ppbv   | 96       |
| 53) Toluene                 | 6.923  | 91    | 8585     | 0.211    | ppbv   | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

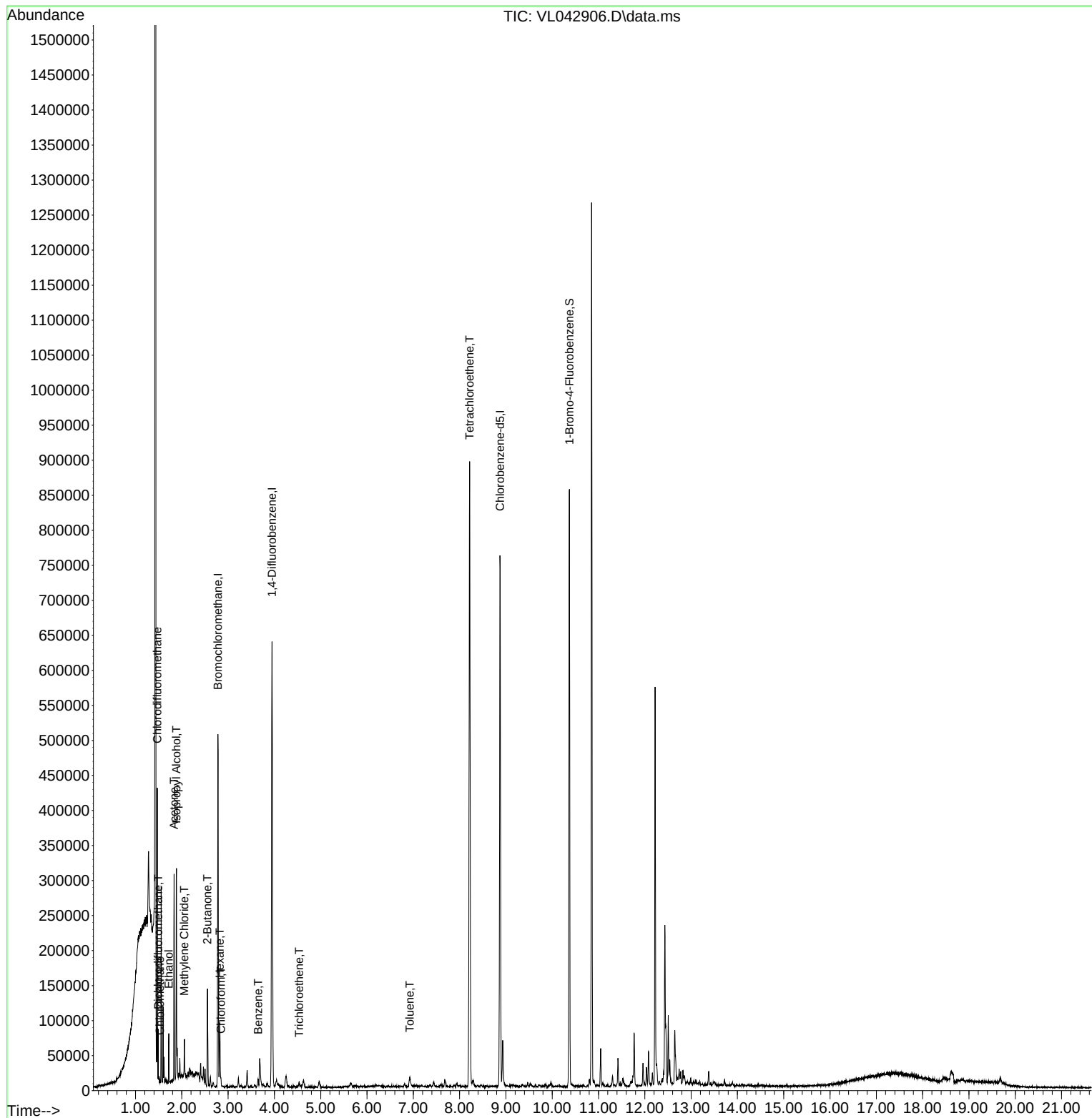
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
Data File : VL042906.D  
Acq On : 08 Sep 2025 16:33  
Operator : SY/MD  
Sample : Q3038-01 4X  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

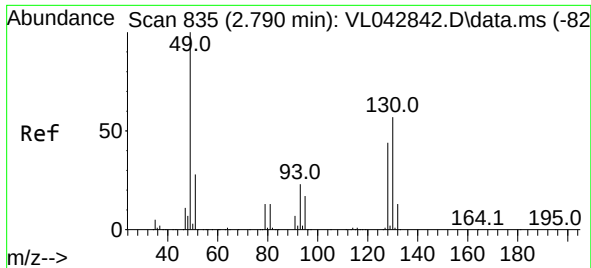
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

Quant Time: Sep 09 00:57:47 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Sep 09 00:52:26 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

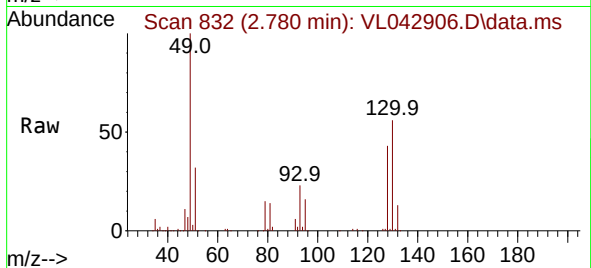
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.780 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

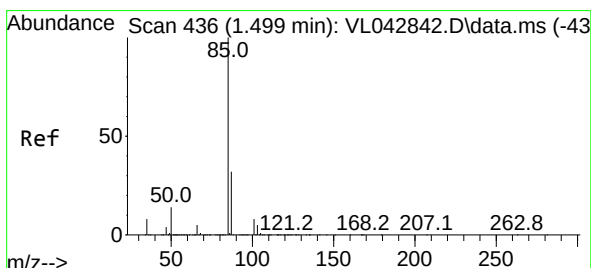
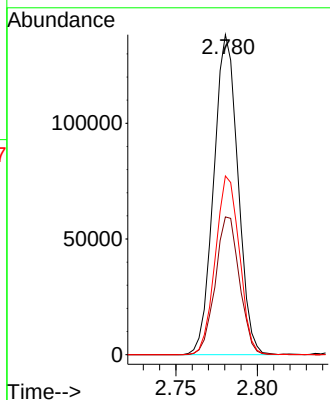
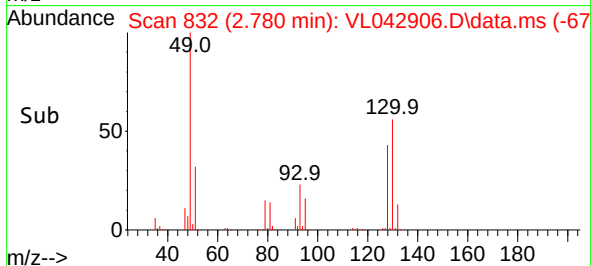
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1



Tgt Ion: 49 Resp: 142770  
Ion Ratio Lower Upper  
49 100  
128 43.0 23.7 71.1  
130 55.5 30.6 91.6

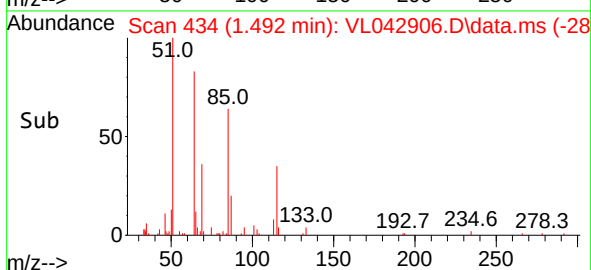
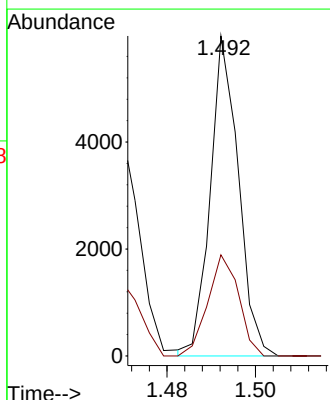
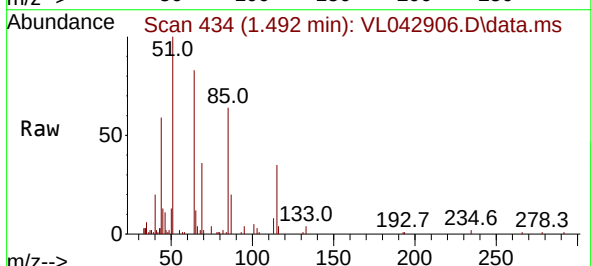
Manual Integrations  
APPROVED

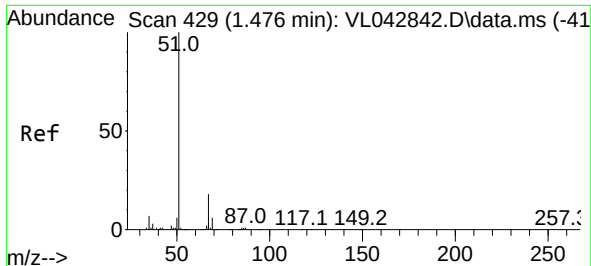
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#2  
Dichlorodifluoromethane  
Concen: 0.126 ppbv  
RT: 1.492 min Scan# 434  
Delta R.T. -0.000 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 85 Resp: 2637  
Ion Ratio Lower Upper  
85 100  
87 31.6 25.3 37.9





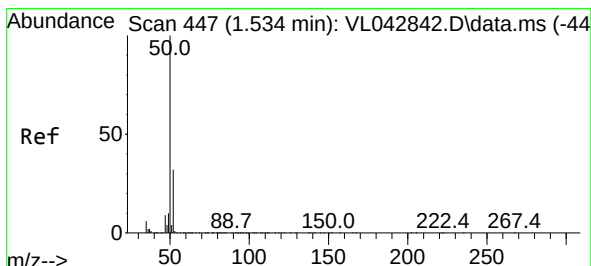
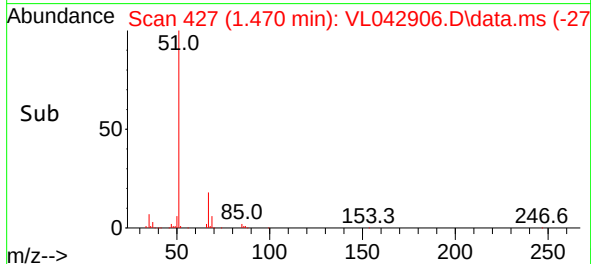
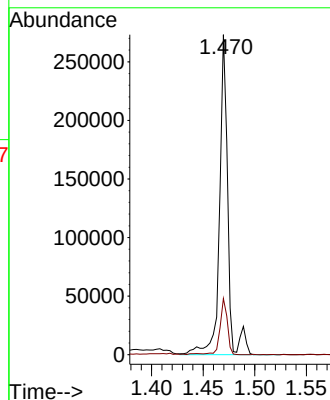
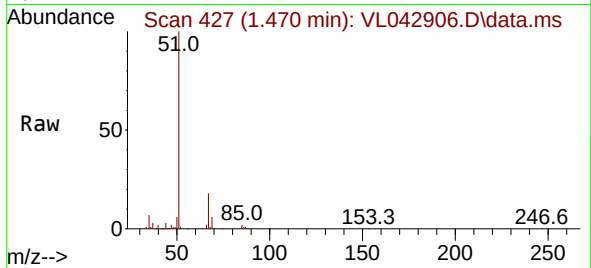
#3  
Chlorodifluoromethane  
Concen: 6.584 ppbv  
RT: 1.470 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

Tgt Ion: 51 Resp: 15226  
Ion Ratio Lower Upper  
51 100  
67 15.8 14.9 22.3

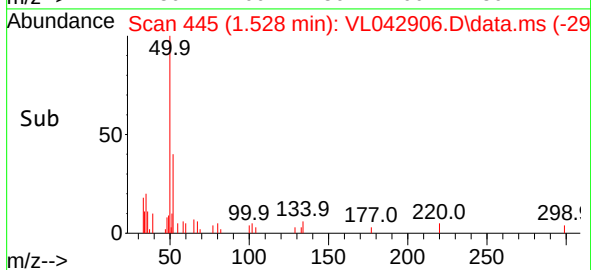
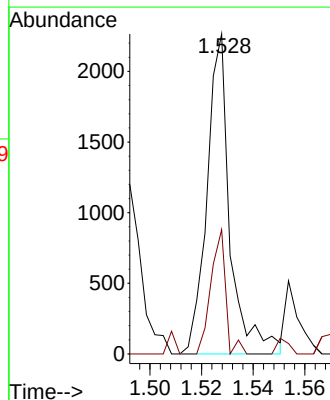
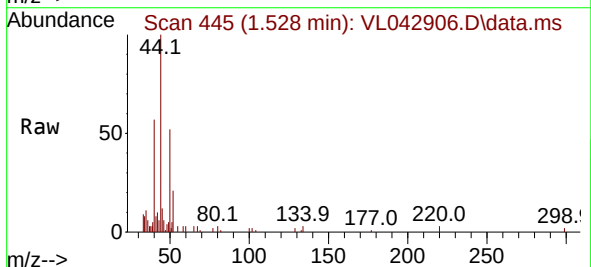
Manual Integrations  
APPROVED

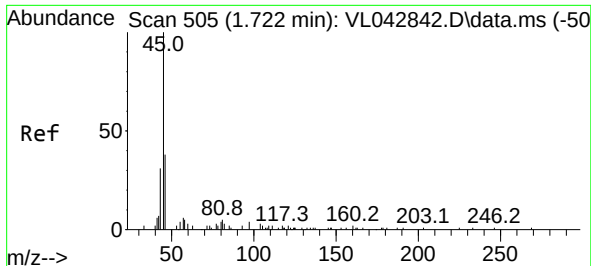
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#4  
Chloromethane  
Concen: 0.166 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. -0.000 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 50 Resp: 1401  
Ion Ratio Lower Upper  
50 100  
52 38.9 25.9 38.9





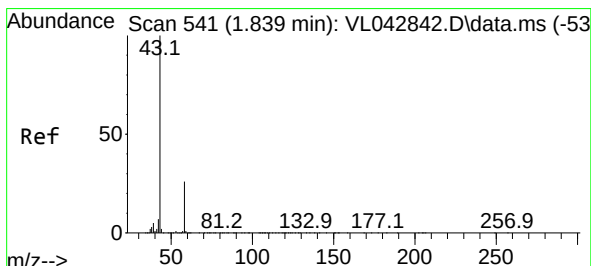
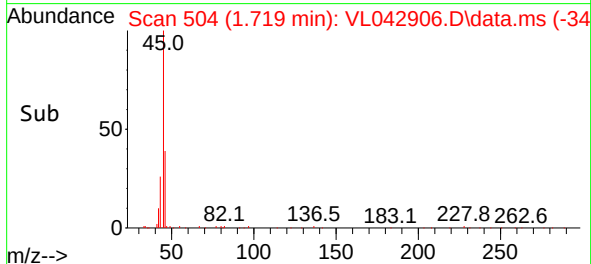
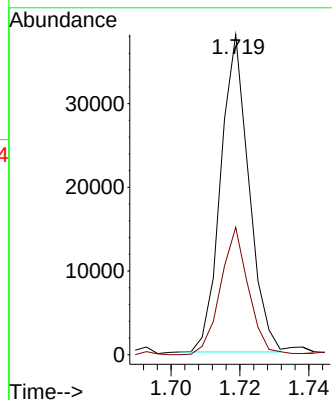
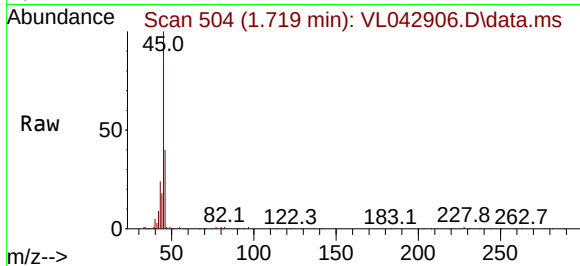
#13  
Ethanol  
Concen: 23.579 ppbv  
RT: 1.719 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

Tgt Ion: 45 Resp: 21534  
Ion Ratio Lower Upper  
45 100  
46 39.5 17.5 69.9

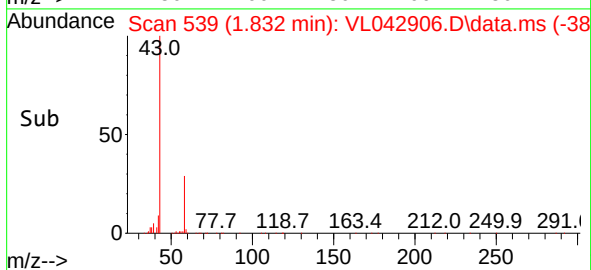
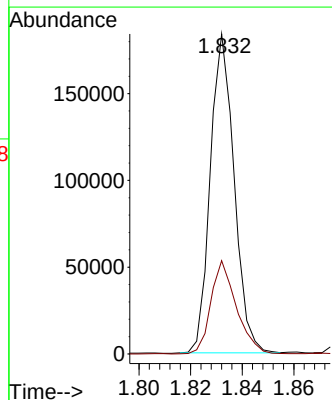
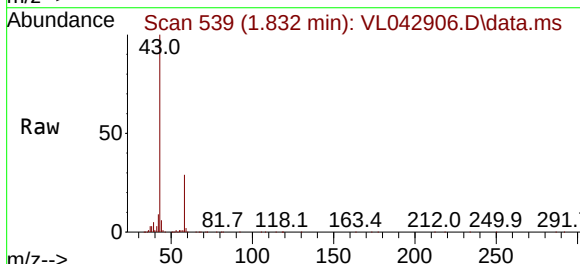
Manual Integrations  
APPROVED

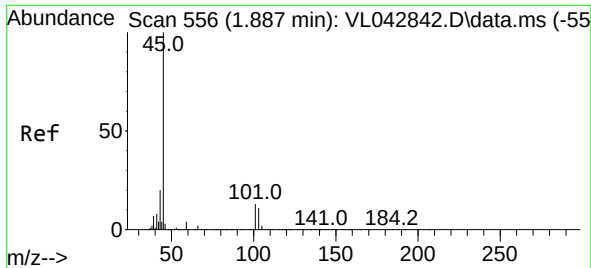
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#15  
Acetone  
Concen: 6.236 ppbv  
RT: 1.832 min Scan# 539  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 43 Resp: 117769  
Ion Ratio Lower Upper  
43 100  
58 31.5 22.4 33.6





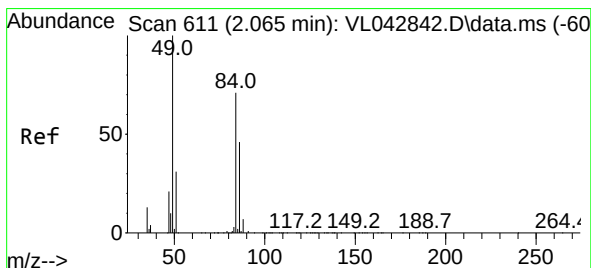
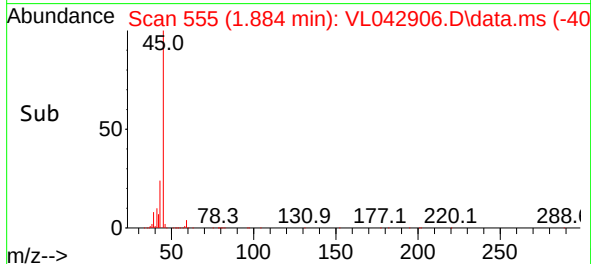
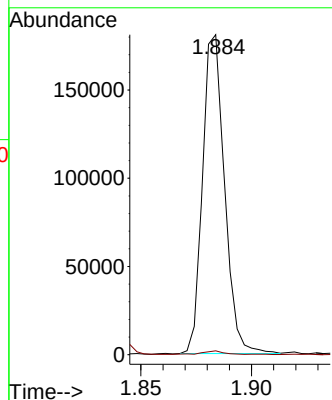
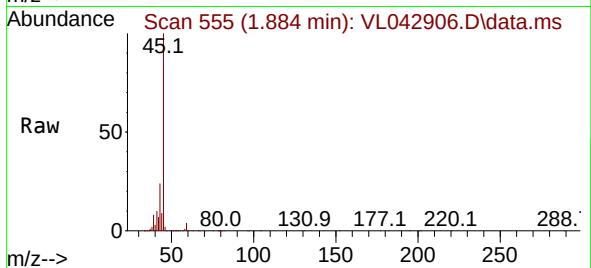
#19  
Isopropyl Alcohol  
Concen: 11.054 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

Tgt Ion: 45 Resp: 12468  
Ion Ratio Lower Upper  
45 100  
58 1.9 32.7 49.1

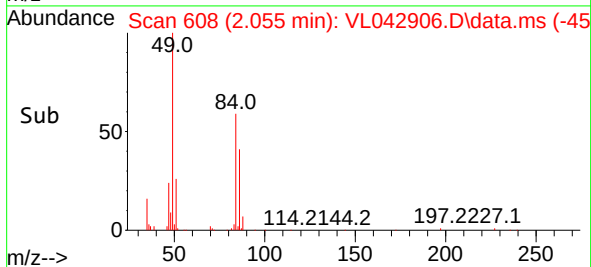
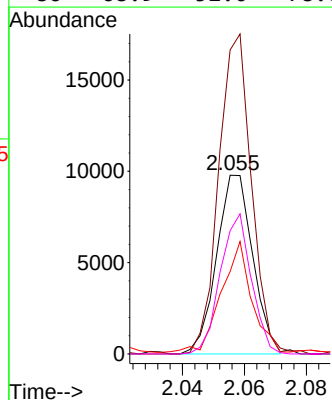
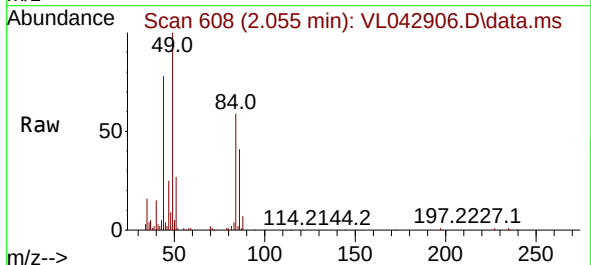
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APPROVED

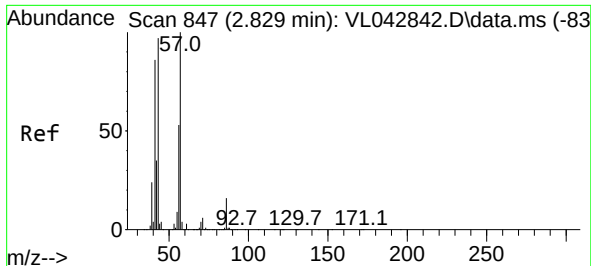
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#20  
Methylene Chloride  
Concen: 1.003 ppbv  
RT: 2.055 min Scan# 608  
Delta R.T. -0.000 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

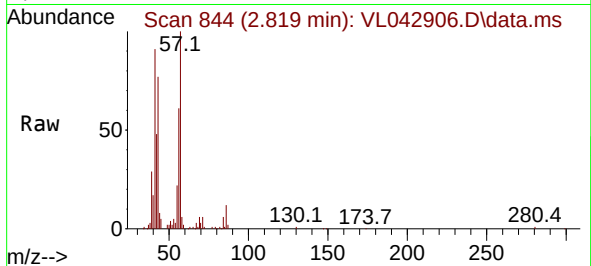
Tgt Ion: 84 Resp: 7932  
Ion Ratio Lower Upper  
84 100  
49 168.1 112.3 168.5  
51 44.9 36.0 54.0  
86 68.9 52.0 78.0





#26  
Hexane  
Concen: 0.888 ppbv  
RT: 2.819 min Scan# 844  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

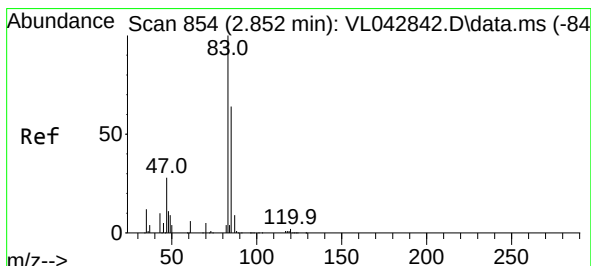
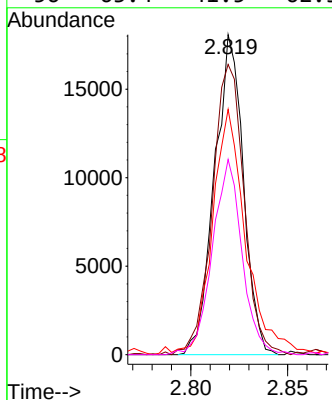
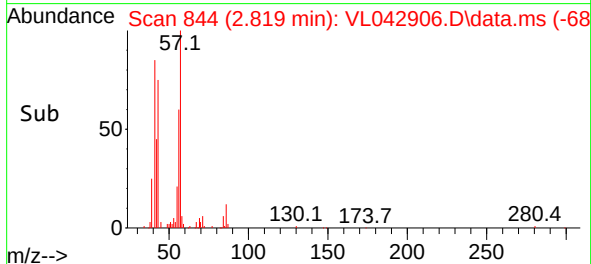
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1



Tgt Ion: 57 Resp: 18740  
Ion Ratio Lower Upper  
57 100  
41 101.0 68.6 103.0  
43 86.5 168.5 252.7  
56 63.4 41.5 62.3

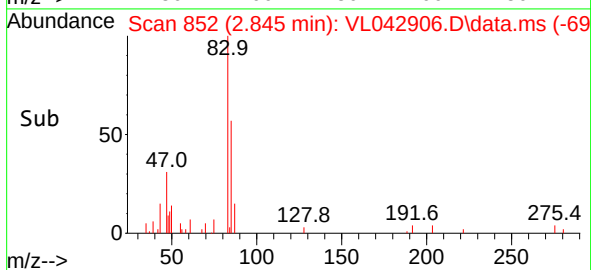
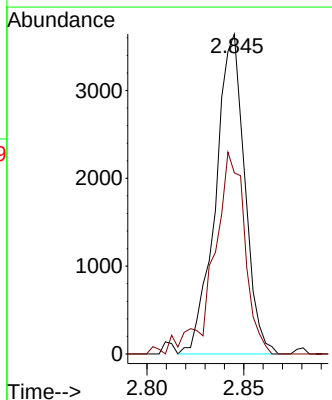
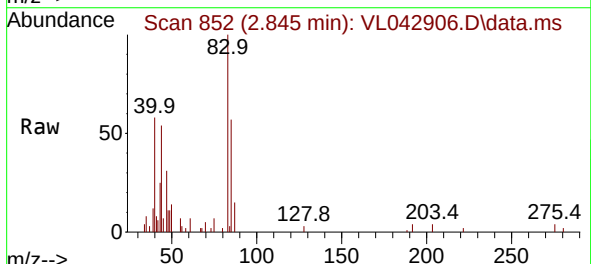
Manual Integrations  
APPROVED

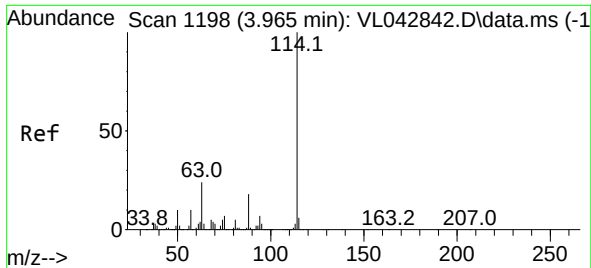
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#29  
Chloroform  
Concen: 0.127 ppbv  
RT: 2.845 min Scan# 852  
Delta R.T. 0.006 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 83 Resp: 3811  
Ion Ratio Lower Upper  
83 100  
85 56.6 51.1 76.7





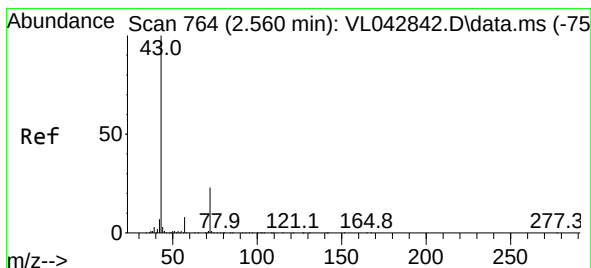
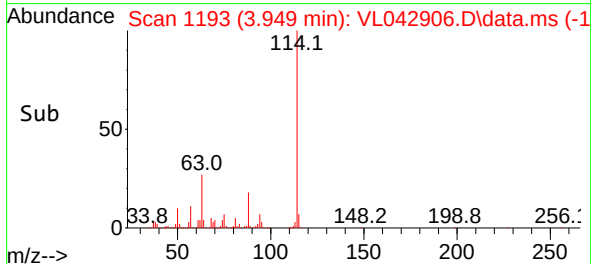
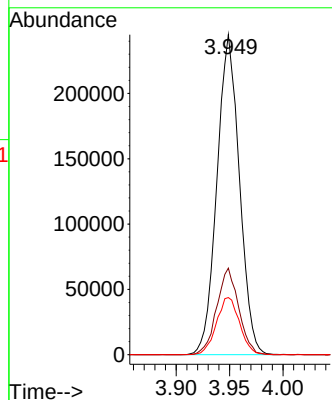
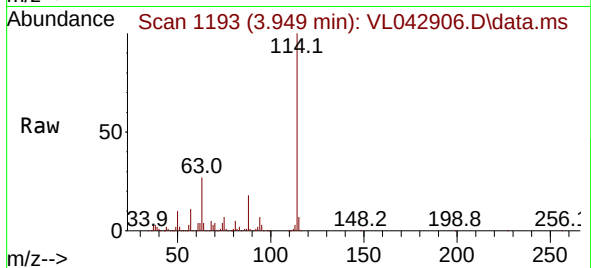
#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.949 min Scan# 1193  
Delta R.T. 0.006 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

Tgt Ion:114 Resp: 35822  
Ion Ratio Lower Upper  
114 100  
63 26.5 19.7 29.5  
88 18.4 14.4 21.6

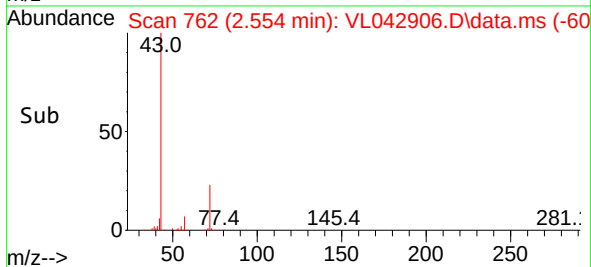
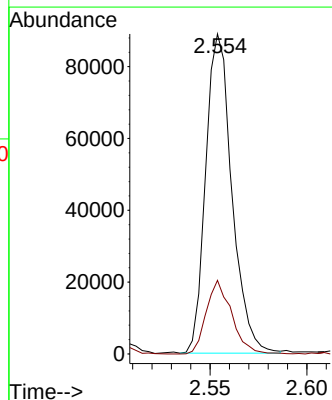
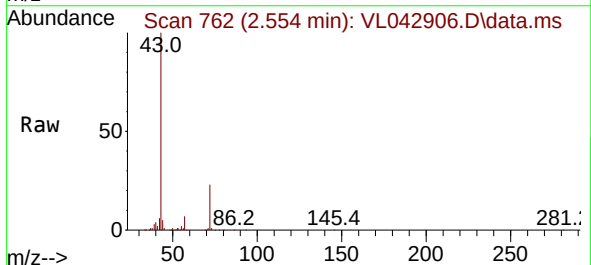
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

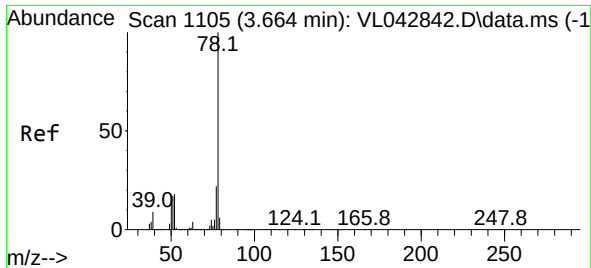


#34  
2-Butanone  
Concen: 3.469 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. 0.006 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 43 Resp: 83905  
Ion Ratio Lower Upper  
43 100  
72 22.6 18.6 28.0







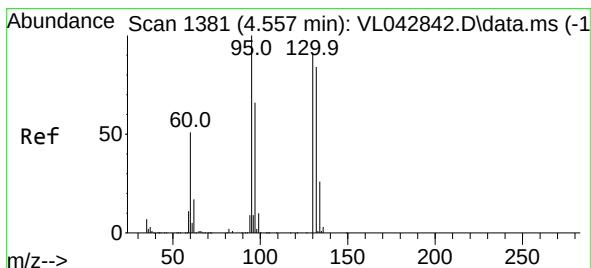
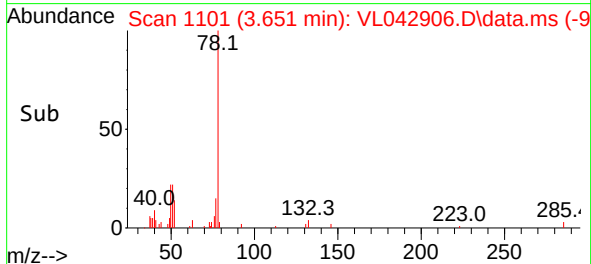
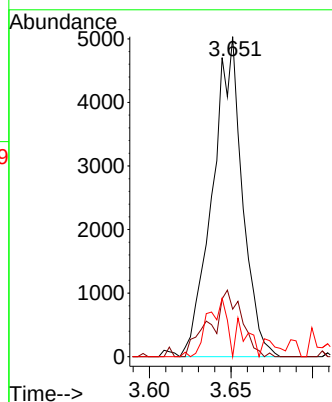
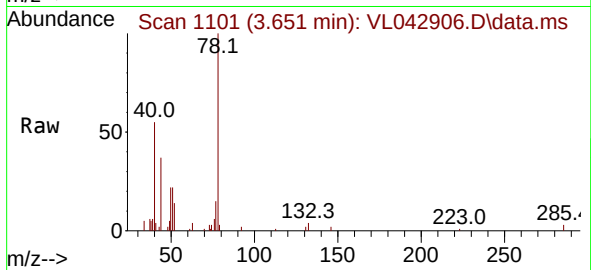
#36  
Benzene  
Concen: 0.187 ppbv  
RT: 3.651 min Scan# 1105  
Delta R.T. 0.006 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

Tgt Ion: 78 Resp: 641  
Ion Ratio Lower Upper  
78 100  
77 14.9 17.7 26.5  
50 0.0 13.9 20.9

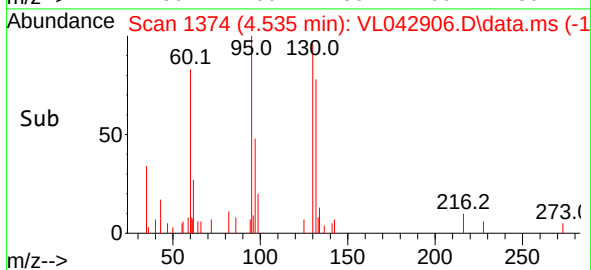
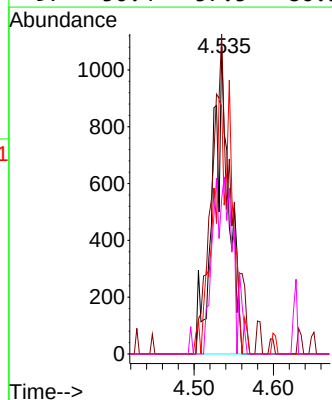
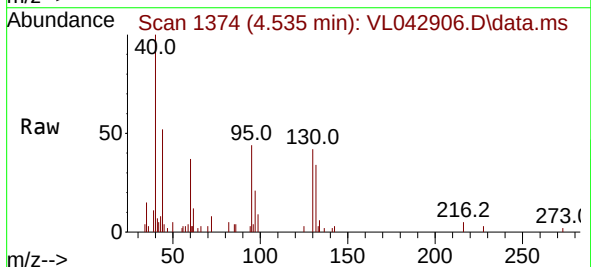
Manual Integrations  
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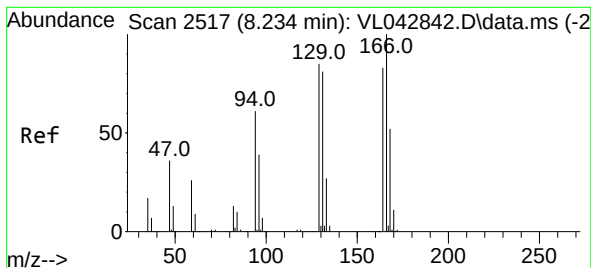
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#38  
Trichloroethene  
Concen: 0.100 ppbv m  
RT: 4.535 min Scan# 1374  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion:130 Resp: 1571  
Ion Ratio Lower Upper  
130 100  
95 104.2 87.6 131.4  
132 80.8 73.8 110.8  
97 50.4 57.5 86.3





#52

Tetrachloroethene

Concen: 11.711 ppbv

RT: 8.218 min Scan# 2112

Delta R.T. 0.006 min

Lab File: VL042906.D

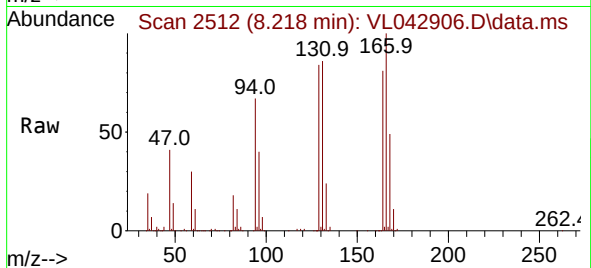
Acq: 08 Sep 2025 16:33

Instrument :

MSVOA\_L

ClientSampleId :

SV-1



Tgt Ion:164 Resp: 145329

Ion Ratio Lower Upper

164 100

166 123.8 96.5 144.7

129 103.9 81.8 122.6

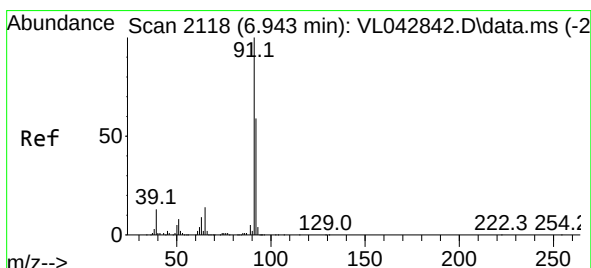
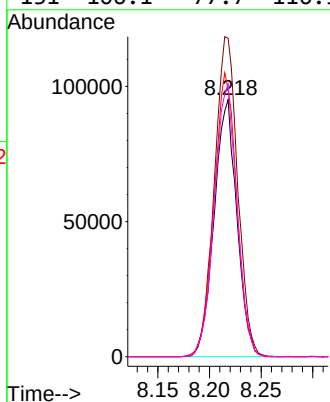
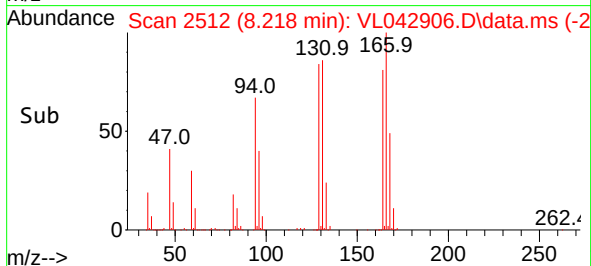
131 106.1 77.7 116.5

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#53

Toluene

Concen: 0.211 ppbv

RT: 6.923 min Scan# 2112

Delta R.T. 0.009 min

Lab File: VL042906.D

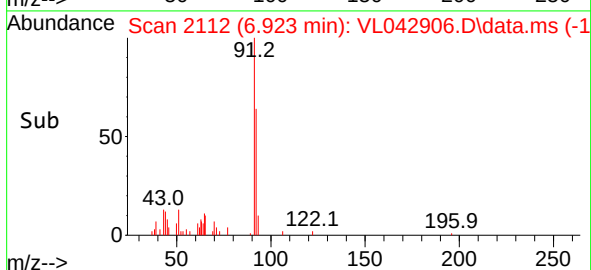
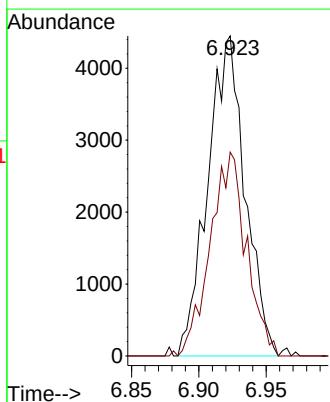
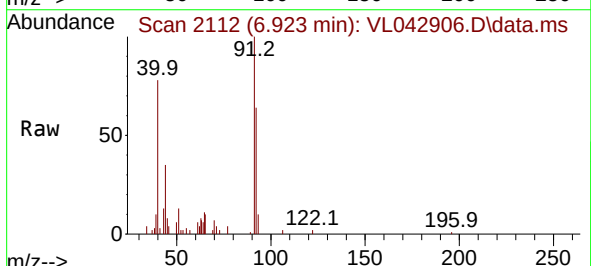
Acq: 08 Sep 2025 16:33

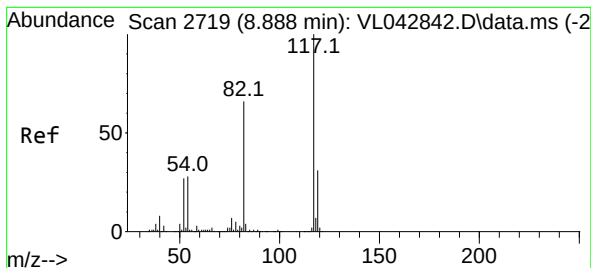
Tgt Ion: 91 Resp: 8585

Ion Ratio Lower Upper

91 100

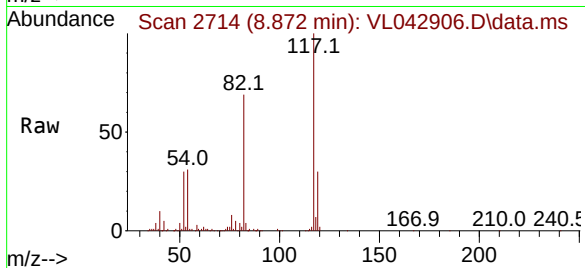
92 61.6 47.8 71.6





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.872 min Scan# 2117  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

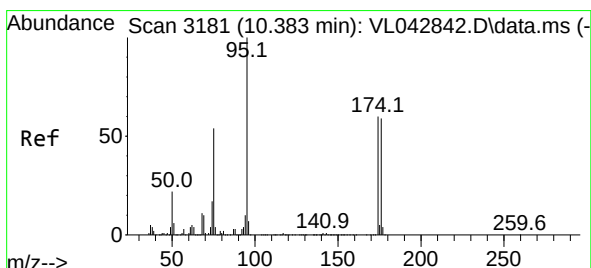
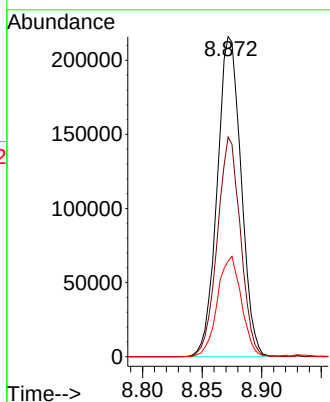
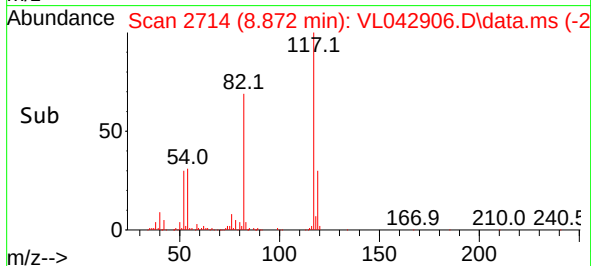
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1



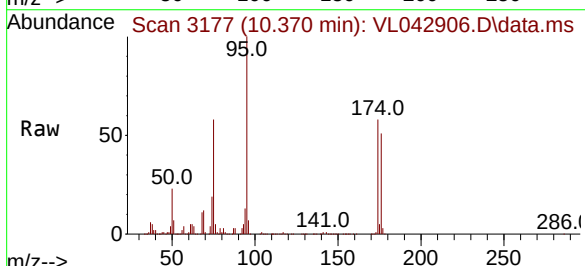
Tgt Ion: 117 Resp: 300604  
Ion Ratio Lower Upper  
117 100  
82 66.8 54.6 81.8  
119 31.6 25.9 38.9

Manual Integrations  
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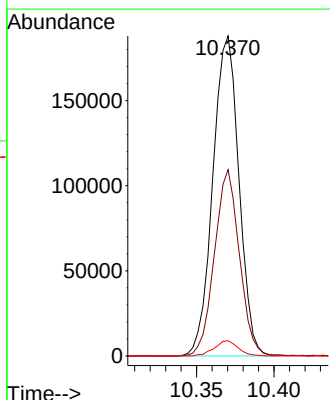
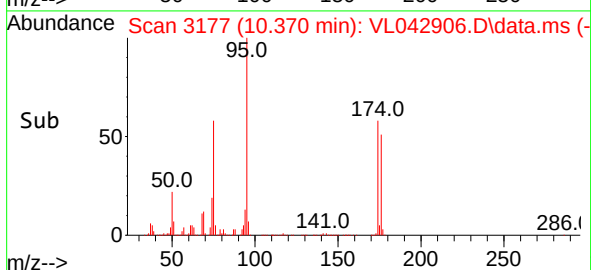
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.765 ppbv  
RT: 10.370 min Scan# 3177  
Delta R.T. 0.006 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33



Tgt Ion: 95 Resp: 220147  
Ion Ratio Lower Upper  
95 100  
174 55.8 48.4 72.6  
175 4.4 3.8 5.8





# CALIBRATION SUMMARY

|    |
|----|
| 1  |
| 2  |
| 3  |
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Method Path : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\

Method File : VL081325AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

Last Update : Thu Aug 14 02:12:54 2025

Response Via : Initial Calibration

## Calibration Files

0.03=VL042847.D 0.1 =VL042846.D 0.5 =VL042845.D 1 =VL042844.D 2 =VL042843.D 10 =VL042842.D 15 =VL042848.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg   | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----                     |                |       |       |       |       |       |       |       |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2) T Dichlorodifluo...    |                |       | 1.566 | 1.525 | 1.511 | 1.343 | 1.383 | 1.466 | 6.61  |
| 3) Chlorodifluoro...      |                |       | 1.752 | 1.621 | 1.714 | 1.509 | 1.504 | 1.620 | 7.05  |
| 4) Chloromethane          |                |       | 0.648 | 0.618 | 0.606 | 0.533 | 0.551 | 0.591 | 8.09  |
| 5) T Vinyl Chloride       | 0.728          | 0.639 | 0.593 | 0.559 | 0.550 | 0.502 | 0.507 | 0.582 | 13.72 |
| 6) T Bromomethane         |                |       | 0.248 | 0.268 | 0.239 | 0.203 | 0.206 | 0.233 | 12.06 |
| 7) Chloroethane           |                |       | 0.266 | 0.240 | 0.219 | 0.202 | 0.210 | 0.227 | 11.46 |
| 8) T Dichlorotetra...     |                |       | 1.273 | 1.235 | 1.245 | 1.122 | 1.122 | 1.199 | 6.02  |
| 9) T Propene              |                |       | 0.824 | 0.692 | 0.715 | 0.656 | 0.611 | 0.700 | 11.40 |
| 10) T Heptane             |                |       | 2.009 | 2.011 | 1.917 | 1.718 | 1.713 | 1.874 | 7.96  |
| 11) T Trichlorofluor...   |                |       | 1.614 | 1.533 | 1.467 | 1.271 | 1.345 | 1.446 | 9.59  |
| 12) T 1,1,2-Trichlor...   |                |       | 1.259 | 1.202 | 1.189 | 1.047 | 1.066 | 1.152 | 7.95  |
| 13) Ethanol               |                |       | 0.089 | 0.069 | 0.070 | 0.046 | 0.047 | 0.064 | 27.87 |
| 14) T Bromoethene         |                |       | 0.462 | 0.416 | 0.436 | 0.381 | 0.391 | 0.417 | 7.89  |
| 15) T Acetone             |                |       | 1.708 | 1.475 | 1.476 | 0.950 | 1.005 | 1.323 | 24.92 |
| 16) T 1,3-Butadiene       |                |       | 0.783 | 0.633 | 0.579 | 0.500 | 0.503 | 0.600 | 19.47 |
| 17) tert-Butyl alc...     |                |       | 1.920 | 1.660 | 1.557 | 1.371 | 1.335 | 1.569 | 15.14 |
| 18) T 1,1-Dichloroet...   |                |       | 0.552 | 0.509 | 0.532 | 0.469 | 0.472 | 0.507 | 7.21  |
| 19) T Isopropyl Alcohol   |                |       | 0.976 | 0.847 | 0.799 | 0.649 | 0.679 | 0.790 | 16.79 |
| 20) T Methylene Chlo...   |                |       | 0.792 | 0.596 | 0.544 | 0.414 | 0.425 | 0.554 | 27.79 |
| 21) T Allyl Chloride      |                |       | 1.122 | 0.902 | 0.945 | 0.850 | 0.854 | 0.935 | 11.98 |
| 22) T trans-1,2-Dich...   |                |       | 0.630 | 0.613 | 0.604 | 0.537 | 0.546 | 0.586 | 7.10  |
| 23) T Vinyl Acetate       |                |       | 2.161 | 1.733 | 1.849 | 1.663 | 1.689 | 1.819 | 11.22 |
| 24) T 1,1-Dichloroet...   |                |       | 1.317 | 1.223 | 1.185 | 1.040 | 1.088 | 1.171 | 9.38  |
| 25) T Ethyl Acetate       |                |       | 3.491 | 3.346 | 3.324 | 2.932 | 2.914 | 3.202 | 8.19  |
| 26) T Hexane              |                |       | 1.557 | 1.552 | 1.522 | 1.392 | 1.366 | 1.478 | 6.19  |
| 27) T Carbon Disulfide    |                |       | 1.504 | 1.513 | 1.511 | 1.314 | 1.348 | 1.438 | 6.84  |
| 28) T Methyl tert-Bu...   |                |       | 0.833 | 0.747 | 0.817 | 0.661 | 0.710 | 0.754 | 9.61  |
| 29) T Chloroform          |                |       | 2.299 | 2.183 | 2.166 | 1.932 | 1.970 | 2.110 | 7.32  |
| 30) T Cyclohexane         |                |       | 1.425 | 1.283 | 1.340 | 1.214 | 1.217 | 1.296 | 6.87  |
| 31) T cis-1,2-Dichlo...   |                |       | 1.625 | 1.524 | 1.524 | 1.346 | 1.362 | 1.476 | 8.06  |
| 32) T 1,1,1-Trichlor...   | 2.448          | 2.528 | 2.209 | 2.148 | 2.215 | 1.999 | 2.063 | 2.230 | 8.69  |
| -----                     |                |       |       |       |       |       |       |       |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |       |       |
| 34) T 2-Butanone          |                |       | 0.753 | 0.702 | 0.700 | 0.610 | 0.611 | 0.675 | 9.33  |
| 35) T Carbon Tetrach...   | 0.736          | 0.738 | 0.682 | 0.700 | 0.692 | 0.636 | 0.643 | 0.689 | 5.84  |
| 36) T Benzene             |                |       | 1.013 | 0.978 | 0.990 | 0.912 | 0.896 | 0.958 | 5.33  |
| 37) T 1,2-Dichloroet...   |                |       | 0.512 | 0.516 | 0.503 | 0.483 | 0.488 | 0.500 | 2.87  |
| 38) T Trichloroethene     | 0.416          | 0.448 | 0.501 | 0.448 | 0.453 | 0.399 | 0.397 | 0.437 | 8.35  |
| 39) T 1,2-Dichloropr...   |                |       | 0.378 | 0.365 | 0.356 | 0.324 | 0.326 | 0.350 | 6.84  |

|                                                                                 |                   |                |       |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------|-------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\<br>Method File : VL081325AIR.M |                   |                |       |       |       |       |       |       |       |       |
| 40) T                                                                           | 1,4-Dioxane       |                |       | 0.189 | 0.185 | 0.166 | 0.148 | 0.144 | 0.166 | 12.22 |
| 41) T                                                                           | Tetrahydrofuran   |                |       | 0.395 | 0.389 | 0.392 | 0.355 | 0.351 | 0.376 | 5.64  |
| 42) T                                                                           | Bromodichlorom... |                |       | 0.786 | 0.742 | 0.777 | 0.708 | 0.714 | 0.745 | 4.77  |
| 43) T                                                                           | Methyl Methacr... |                |       | 0.427 | 0.402 | 0.415 | 0.368 | 0.362 | 0.394 | 7.31  |
| 44) T                                                                           | 2,2,4-Trimethy... |                |       | 1.728 | 1.719 | 1.676 | 1.515 | 1.489 | 1.625 | 7.06  |
| 45) T                                                                           | t-1,3-Dichloro... |                |       | 0.450 | 0.464 | 0.456 | 0.428 | 0.427 | 0.445 | 3.73  |
| 46) T                                                                           | cis-1,3-Dichlo... |                |       | 0.568 | 0.559 | 0.578 | 0.539 | 0.529 | 0.555 | 3.67  |
| 47) T                                                                           | 1,1,2-Trichlor... |                |       | 0.395 | 0.382 | 0.386 | 0.341 | 0.348 | 0.371 | 6.52  |
| 48) T                                                                           | Dibromochlorom... |                |       | 0.596 | 0.605 | 0.632 | 0.584 | 0.581 | 0.600 | 3.44  |
| 49) T                                                                           | Bromoform         |                |       | 0.466 | 0.514 | 0.535 | 0.491 | 0.467 | 0.495 | 6.07  |
| 50) T                                                                           | 4-Methyl-2-Pen... |                |       | 0.960 | 0.917 | 0.946 | 0.881 | 0.859 | 0.913 | 4.67  |
| 51) T                                                                           | 2-Hexanone        |                |       | 0.723 | 0.737 | 0.750 | 0.699 | 0.683 | 0.718 | 3.82  |
| 52) T                                                                           | Tetrachloroethene | 0.391          | 0.379 | 0.369 | 0.333 | 0.345 | 0.313 | 0.295 | 0.346 | 10.19 |
| 53) T                                                                           | Toluene           |                |       | 1.219 | 1.180 | 1.160 | 1.072 | 1.061 | 1.138 | 6.09  |
| 54) T                                                                           | 1,2-Dibromoethane |                | 0.599 | 0.549 | 0.532 | 0.552 | 0.506 | 0.512 | 0.542 | 6.24  |
| 55) I                                                                           | Chlorobenzene-d5  | -----ISTD----- |       |       |       |       |       |       |       |       |
| 56) T                                                                           | 1,1,1,2-Tetrac... |                |       | 0.534 | 0.549 | 0.551 | 0.476 | 0.476 | 0.517 | 7.39  |
| 57) T                                                                           | Chlorobenzene     |                |       | 1.026 | 0.990 | 0.994 | 0.878 | 0.866 | 0.951 | 7.68  |
| 58) T                                                                           | Ethyl Benzene     |                |       | 1.854 | 1.866 | 1.838 | 1.636 | 1.630 | 1.765 | 6.84  |
| 59) T                                                                           | m/p-Xylene        |                |       | 1.447 | 1.454 | 1.455 | 1.283 | 1.277 | 1.383 | 6.81  |
| 60) T                                                                           | o-Xylene          |                |       | 1.532 | 1.472 | 1.445 | 1.266 | 1.242 | 1.391 | 9.31  |
| 61) T                                                                           | Styrene           |                |       | 0.711 | 0.677 | 0.660 | 0.610 | 0.601 | 0.652 | 7.09  |
| 62) T                                                                           | Isopropylbenzene  |                |       | 2.149 | 2.194 | 2.133 | 1.852 | 1.838 | 2.033 | 8.53  |
| 63) T                                                                           | 1,1,2,2-Tetrac... | 0.881          | 0.774 | 0.795 | 0.784 | 0.772 | 0.674 | 0.677 | 0.765 | 9.39  |
| 64) T                                                                           | n-propylbenzene   |                |       | 0.570 | 0.528 | 0.549 | 0.475 | 0.472 | 0.519 | 8.47  |
| 65) T                                                                           | tert-Butylbenzene |                |       | 1.907 | 1.991 | 1.910 | 1.605 | 1.549 | 1.793 | 11.19 |
| 66) T                                                                           | Benzyl Chloride   |                |       | 0.232 | 0.226 | 0.246 | 0.227 | 0.207 | 0.228 | 6.21  |
| 67) T                                                                           | sec-Butylbenzene  |                |       | 2.669 | 2.754 | 2.706 | 2.250 | 2.202 | 2.516 | 10.62 |
| 68) S                                                                           | 1-Bromo-4-Fluo... | 0.736          | 0.746 | 0.755 | 0.760 | 0.744 | 0.755 | 0.754 | 0.750 | 1.09  |
| 69) T                                                                           | p-Isopropyltol... |                |       | 2.338 | 2.372 | 2.328 | 1.905 | 1.856 | 2.160 | 11.85 |
| 70) T                                                                           | n-Butylbenzene    |                |       | 2.234 | 2.303 | 2.333 | 1.927 | 1.915 | 2.142 | 9.58  |
| 71) T                                                                           | 2-Chlorotoluene   |                |       | 1.709 | 1.719 | 1.641 | 1.418 | 1.408 | 1.579 | 9.77  |
| 72) T                                                                           | 4-Ethyltoluene    |                |       | 1.738 | 1.806 | 1.784 | 1.563 | 1.543 | 1.687 | 7.39  |
| 73) T                                                                           | 1,3,5-Trimethy... |                |       | 1.548 | 1.535 | 1.512 | 1.293 | 1.283 | 1.434 | 9.37  |
| 74) T                                                                           | 1,2,4-Trimethy... |                |       | 1.710 | 1.706 | 1.698 | 1.394 | 1.365 | 1.574 | 11.33 |
| 75) T                                                                           | 1,3-Dichlorobe... |                |       | 0.937 | 0.946 | 0.967 | 0.831 | 0.795 | 0.895 | 8.59  |
| 76) T                                                                           | 1,4-Dichlorobe... |                |       | 0.966 | 0.946 | 0.978 | 0.833 | 0.803 | 0.905 | 8.93  |
| 77) T                                                                           | 1,2-Dichlorobe... |                |       | 0.937 | 0.956 | 0.947 | 0.781 | 0.761 | 0.876 | 11.03 |
| 78) T                                                                           | Hexachloro-1,3... |                |       | 0.814 | 0.845 | 0.804 | 0.572 | 0.556 | 0.718 | 19.74 |
| 79) T                                                                           | Naphthalene       |                | 1.174 | 1.383 | 1.647 | 1.746 | 1.315 | 1.300 | 1.427 | 15.50 |
| 80) T                                                                           | Naphthalene,2-... |                |       | 0.430 | 0.554 | 0.708 | 0.478 | 0.497 | 0.533 | 20.15 |
| 81) T                                                                           | 1,2,4-Trichlor... |                |       | 0.623 | 0.797 | 0.855 | 0.661 | 0.650 | 0.717 | 14.24 |

(#) = Out of Range

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042842.D  
 Acq On : 13 Aug 2025 08:30  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 01:45:27 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025  
 Supervised By : Mahesh Dadoda 08/18/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 133104   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 413632   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 370372   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.383 95 279557 10.064 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

#### Target Compounds

|                                 |       |     |        |       | Qvalue     |
|---------------------------------|-------|-----|--------|-------|------------|
| 2) Dichlorodifluoromethane      | 1.499 | 85  | 178799 | 9.166 | ppbv 100   |
| 3) Chlorodifluoromethane        | 1.476 | 51  | 200866 | 9.306 | ppbv 100   |
| 4) Chloromethane                | 1.534 | 50  | 70952  | 9.013 | ppbv 100   |
| 5) Vinyl Chloride               | 1.583 | 62  | 66768  | 8.612 | ppbv 100   |
| 6) Bromomethane                 | 1.670 | 94  | 26964  | 8.698 | ppbv 100   |
| 7) Chloroethane                 | 1.706 | 64  | 26884  | 8.879 | ppbv 100   |
| 8) Dichlorotetrafluoroethane    | 1.557 | 85  | 149341 | 9.355 | ppbv 100   |
| 9) Propene                      | 1.486 | 41  | 87352  | 9.380 | ppbv 100   |
| 10) Heptane                     | 4.988 | 43  | 228679 | 9.186 | ppbv 100   |
| 11) Trichlorofluoromethane      | 1.881 | 101 | 169157 | 8.789 | ppbv 100   |
| 12) 1,1,2-Trichlorotrifluoro... | 2.143 | 101 | 139340 | 9.083 | ppbv 100   |
| 13) Ethanol                     | 1.722 | 45  | 6172   | 6.690 | ppbv 100   |
| 14) Bromoethene                 | 1.784 | 108 | 50730  | 9.135 | ppbv 100   |
| 15) Acetone                     | 1.839 | 43  | 126419 | 7.180 | ppbv 100   |
| 16) 1,3-Butadiene               | 1.612 | 39  | 66595  | 8.343 | ppbv 100   |
| 17) tert-Butyl alcohol          | 2.043 | 59  | 182511 | 8.741 | ppbv 100   |
| 18) 1,1-Dichloroethene          | 2.036 | 96  | 62397  | 9.252 | ppbv 100   |
| 19) Isopropyl Alcohol           | 1.887 | 45  | 86367  | 8.213 | ppbv 100   |
| 20) Methylene Chloride          | 2.065 | 84  | 55107  | 7.471 | ppbv 100   |
| 21) Allyl Chloride              | 2.098 | 41  | 113105 | 9.093 | ppbv 100   |
| 22) trans-1,2-Dichloroethene    | 2.344 | 96  | 71518  | 9.482 | ppbv 100   |
| 23) Vinyl Acetate               | 2.467 | 43  | 221395 | 9.558 | ppbv 100   |
| 24) 1,1-Dichloroethane          | 2.412 | 63  | 138444 | 8.885 | ppbv 100   |
| 25) Ethyl Acetate               | 2.839 | 43  | 390295 | 9.159 | ppbv 100   |
| 26) Hexane                      | 2.829 | 57  | 185288 | 9.420 | ppbv 100   |
| 27) Carbon Disulfide            | 2.153 | 76  | 174928 | 9.138 | ppbv 100   |
| 28) Methyl tert-Butyl Ether     | 2.444 | 73  | 87929  | 8.767 | ppbv 100   |
| 29) Chloroform                  | 2.852 | 83  | 257176 | 9.158 | ppbv 100   |
| 30) Cyclohexane                 | 3.862 | 84  | 161540 | 9.367 | ppbv 100   |
| 31) cis-1,2-Dichloroethene      | 2.726 | 61  | 179162 | 9.107 | ppbv 100   |
| 32) 1,1,1-Trichloroethane       | 3.373 | 97  | 266021 | 8.946 | ppbv 100   |
| 34) 2-Butanone                  | 2.560 | 43  | 252300 | 9.033 | ppbv 100   |
| 35) Carbon Tetrachloride        | 3.771 | 117 | 262983 | 9.222 | ppbv 100   |
| 36) Benzene                     | 3.664 | 78  | 377113 | 9.521 | ppbv 100   |
| 37) 1,2-Dichloroethane          | 3.224 | 62  | 199762 | 9.653 | ppbv 100   |
| 38) Trichloroethene             | 4.557 | 130 | 164881 | 9.115 | ppbv 100   |
| 39) 1,2-Dichloropropane         | 4.324 | 63  | 133996 | 9.263 | ppbv 100   |
| 40) 1,4-Dioxane                 | 4.590 | 88  | 61378  | 9.064 | ppbv # 100 |
| 41) Tetrahydrofuran             | 3.059 | 42  | 147025 | 9.442 | ppbv 100   |
| 42) Bromodichloromethane        | 4.499 | 83  | 292909 | 9.499 | ppbv 100   |
| 43) Methyl Methacrylate         | 4.891 | 69  | 152035 | 9.357 | ppbv 100   |
| 44) 2,2,4-Trimethylpentane      | 4.648 | 57  | 626465 | 9.420 | ppbv 100   |
| 45) t-1,3-Dichloropropene       | 6.425 | 75  | 177207 | 9.616 | ppbv 100   |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042842.D  
 Acq On : 13 Aug 2025 08:30  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Aug 14 01:45:27 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

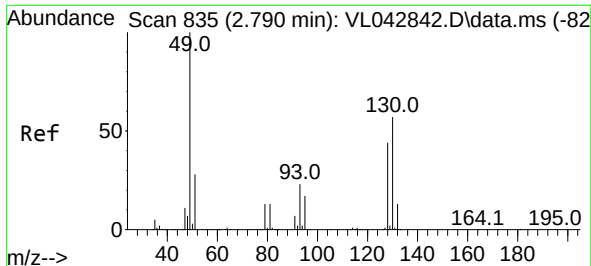
Reviewed By : Semsettin Yesilyurt 08/14/2025  
 Supervised By : Mahesh Dadoda 08/18/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 222921   | 9.635  | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 141105   | 9.215  | ppbv   | 100      |
| 48) Dibromochloromethane      | 7.396  | 129  | 241553   | 9.739  | ppbv   | 100      |
| 49) Bromoform                 | 9.490  | 173  | 202975   | 9.923  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 364306   | 9.616  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.441  | 43   | 289052   | 9.730  | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.234  | 164  | 129484   | 9.026  | ppbv   | 100      |
| 53) Toluene                   | 6.943  | 91   | 443400   | 9.407  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.661  | 107  | 209330   | 9.345  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.933  | 131  | 176135   | 9.196  | ppbv   | 100      |
| 57) Chlorobenzene             | 8.930  | 112  | 325303   | 9.237  | ppbv   | 100      |
| 58) Ethyl Benzene             | 9.364  | 91   | 605785   | 9.268  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.542  | 91   | 950548m  | 18.524 | ppbv   |          |
| 60) o-Xylene                  | 9.972  | 91   | 469073   | 9.102  | ppbv   | 100      |
| 61) Styrene                   | 9.879  | 104  | 226056   | 9.362  | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.549 | 105  | 685983   | 9.108  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 249621   | 8.870  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.995 | 120  | 175986   | 9.158  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.539 | 119  | 594314   | 8.951  | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.620 | 91   | 84156    | 9.985  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 11.772 | 105  | 833378   | 8.943  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 705700   | 8.820  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.287 | 91   | 713713   | 8.995  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 525235   | 8.981  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 578931   | 9.267  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 478784   | 9.012  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 516253   | 8.853  | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 307640   | 9.280  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 308542   | 9.203  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 289119   | 8.907  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 211996   | 7.968  | ppbv   | 100      |
| 79) Naphthalene               | 13.516 | 128  | 487174   | 9.335  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 176880   | 9.000  | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 244998   | 9.220  | ppbv   | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

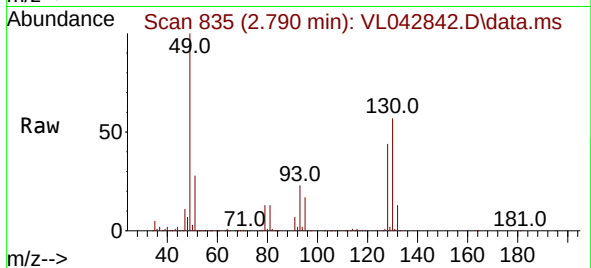






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

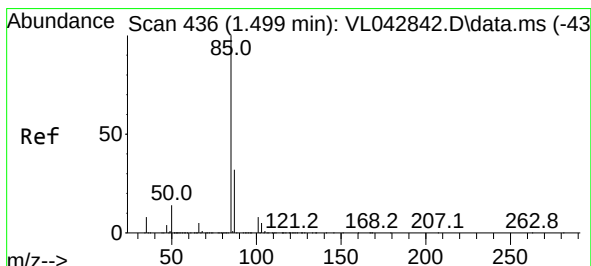
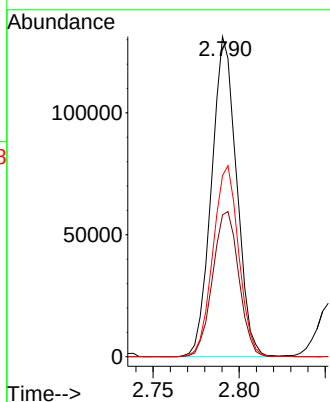
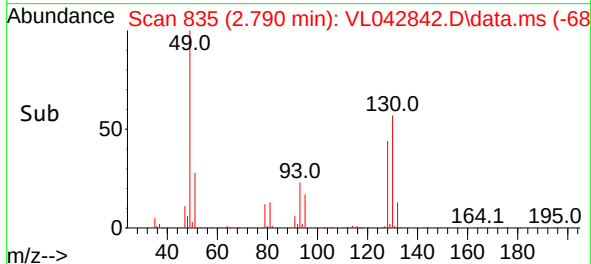
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



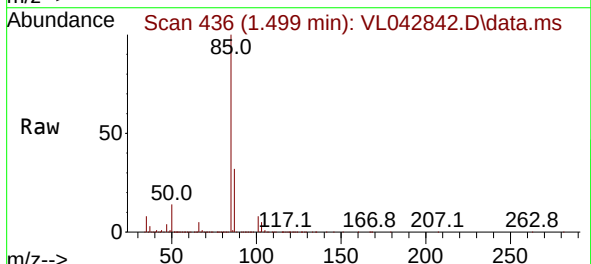
Tgt Ion: 49 Resp: 133104  
Ion Ratio Lower Upper  
49 100  
128 47.4 23.7 71.1  
130 61.1 30.6 91.6

Manual Integrations  
APPROVED

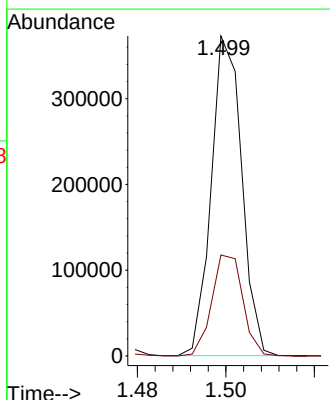
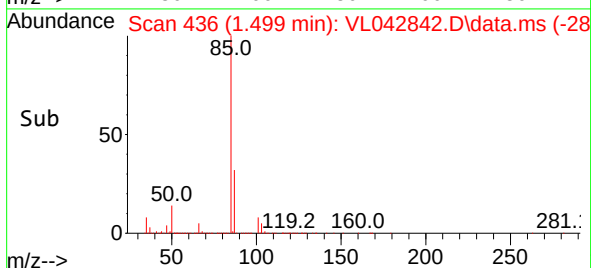
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

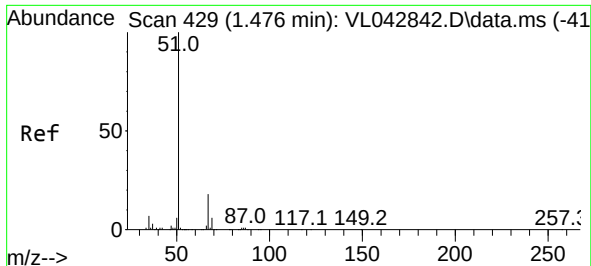


#2  
Dichlorodifluoromethane  
Concen: 9.166 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



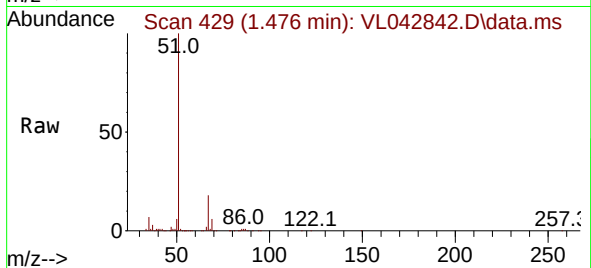
Tgt Ion: 85 Resp: 178799  
Ion Ratio Lower Upper  
85 100  
87 31.6 25.3 37.9





#3  
Chlorodifluoromethane  
Concen: 9.306 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

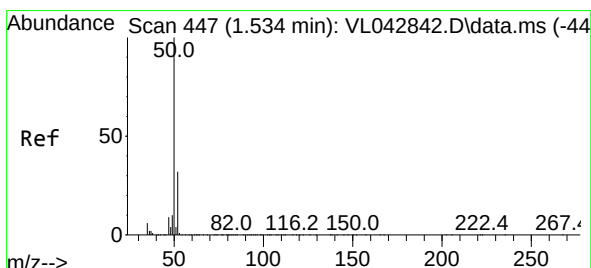
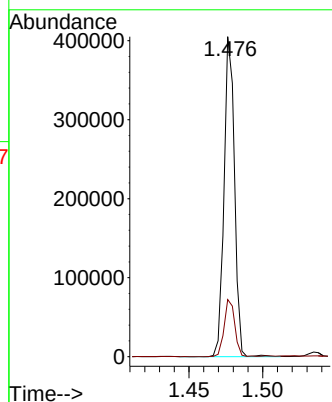
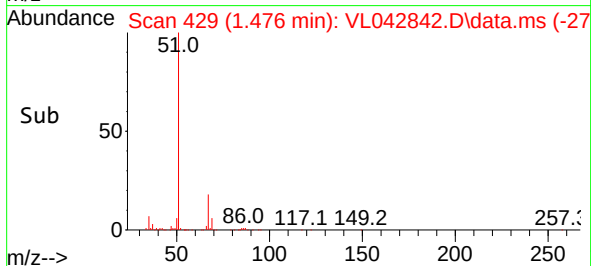
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



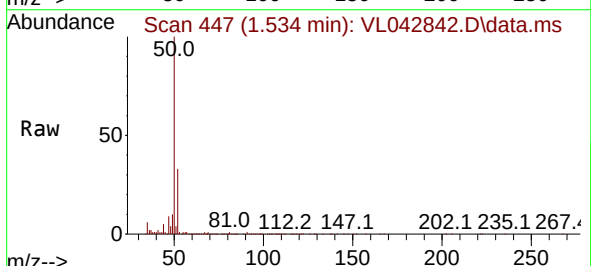
Tgt Ion: 51 Resp: 200860  
Ion Ratio Lower Upper  
51 100  
67 18.6 14.9 22.3

Manual Integrations  
APPROVED

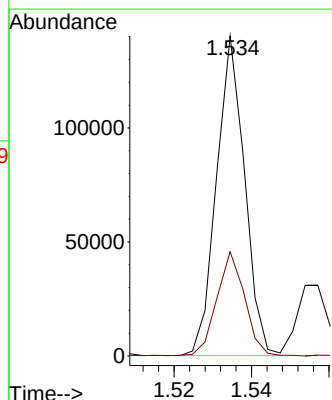
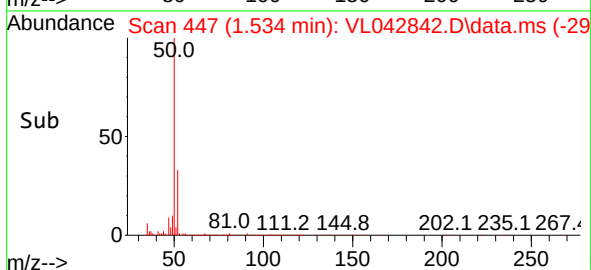
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

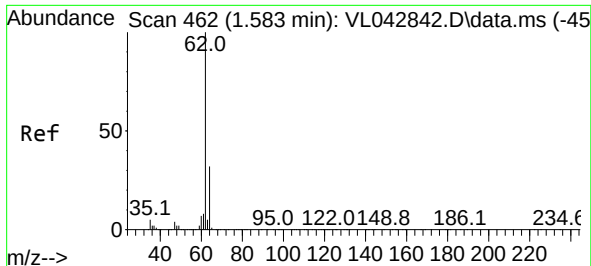


#4  
Chloromethane  
Concen: 9.013 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



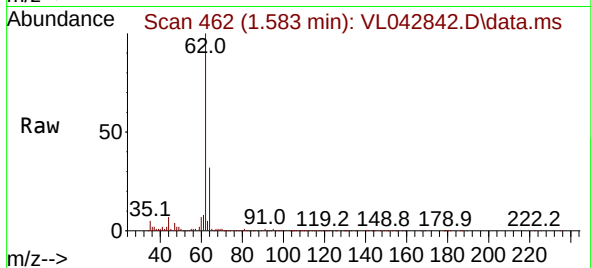
Tgt Ion: 50 Resp: 70952  
Ion Ratio Lower Upper  
50 100  
52 32.4 25.9 38.9





#5  
 Vinyl Chloride  
 Concen: 8.612 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

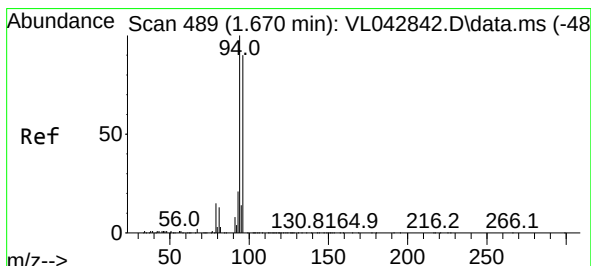
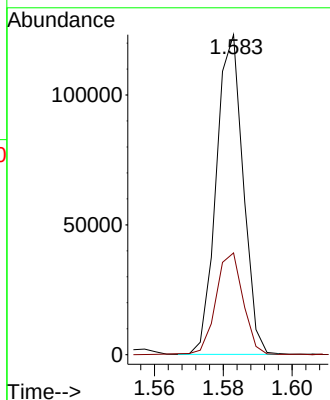
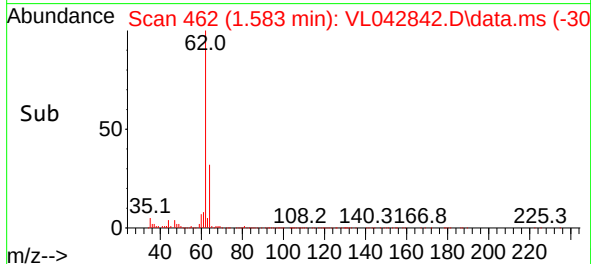
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010



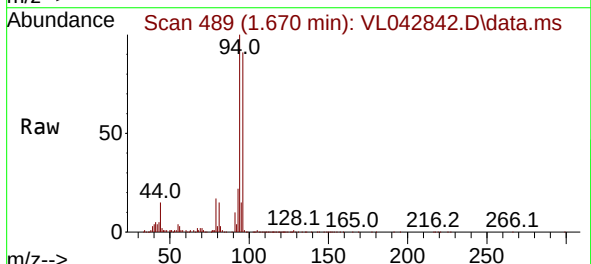
Tgt Ion: 62 Resp: 66768  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 25.4 38.2

Manual Integrations  
 APPROVED

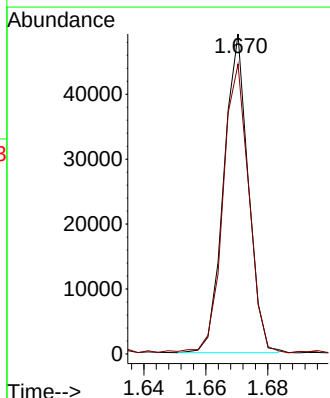
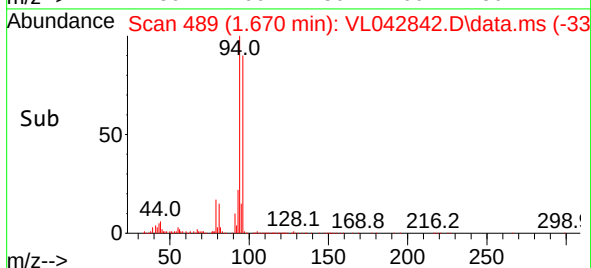
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

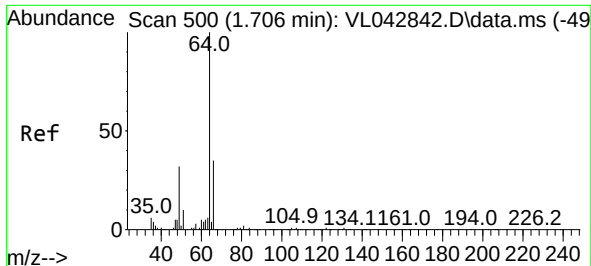


#6  
 Bromomethane  
 Concen: 8.698 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30



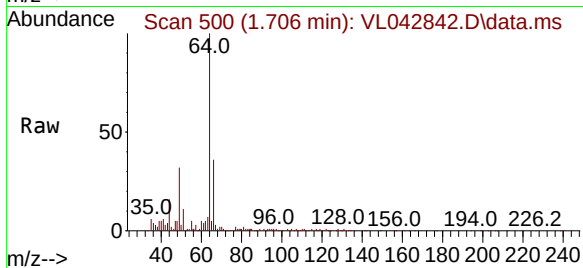
Tgt Ion: 94 Resp: 26964  
 Ion Ratio Lower Upper  
 94 100  
 96 90.1 72.1 108.1





#7  
Chloroethane  
Concen: 8.879 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

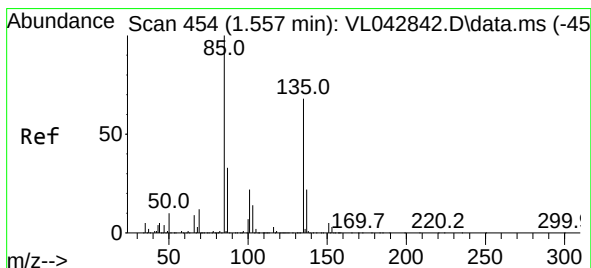
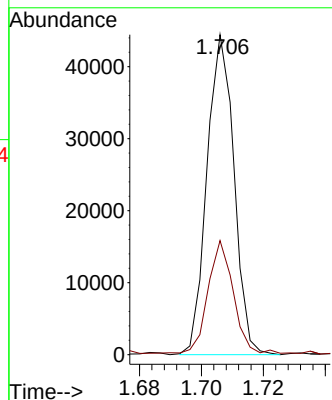
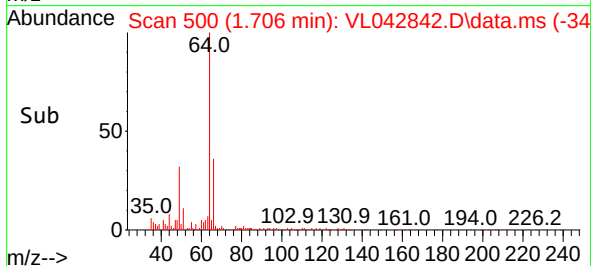
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



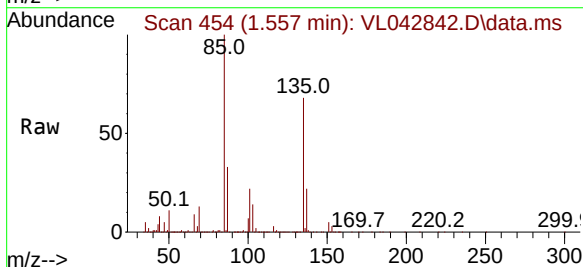
Tgt Ion: 64 Resp: 26884  
Ion Ratio Lower Upper  
64 100  
66 35.7 28.6 42.8

Manual Integrations  
APPROVED

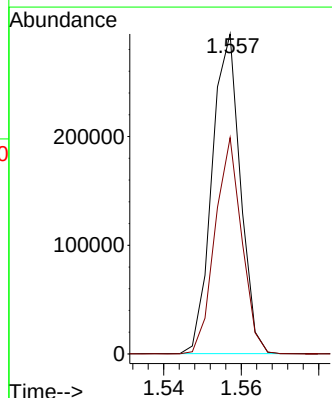
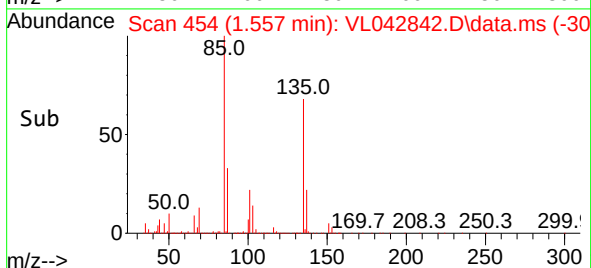
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

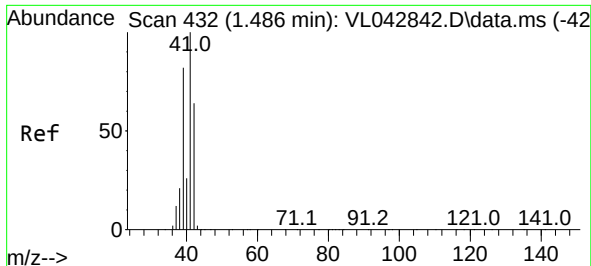


#8  
Dichlorotetrafluoroethane  
Concen: 9.355 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



Tgt Ion: 85 Resp: 149341  
Ion Ratio Lower Upper  
85 100  
135 64.0 51.2 76.8





#9

Propene

Concen: 9.380 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 41 Resp: 87352

Ion Ratio Lower Upper

41 100

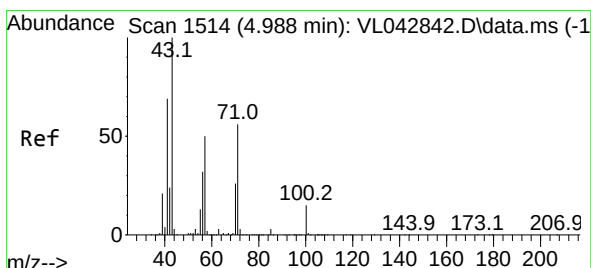
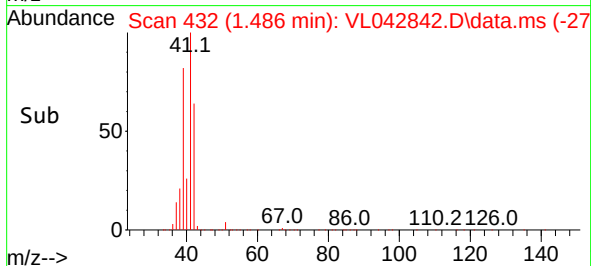
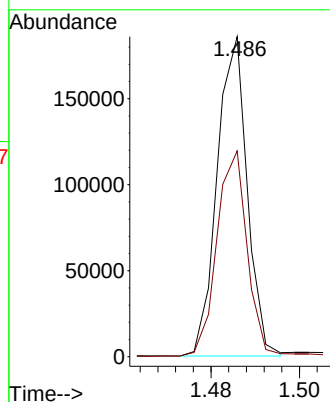
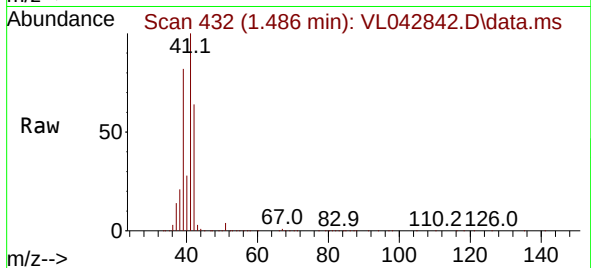
42 66.2 53.0 79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#10

Heptane

Concen: 9.186 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL042842.D

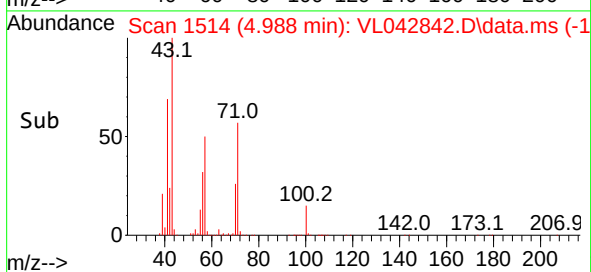
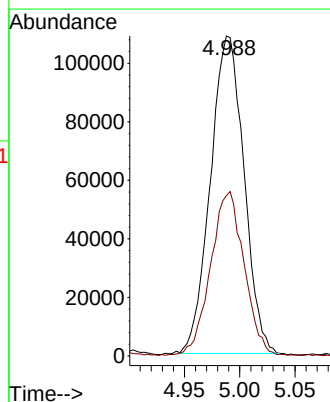
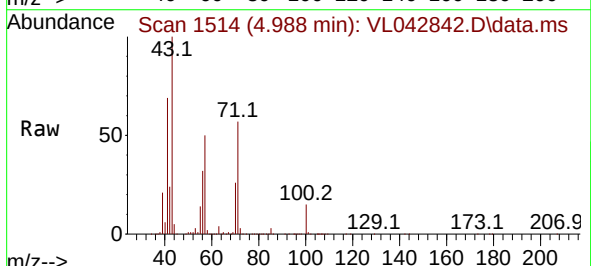
Acq: 13 Aug 2025 08:30

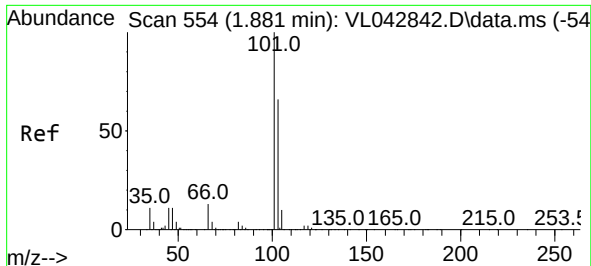
Tgt Ion: 43 Resp: 228679

Ion Ratio Lower Upper

43 100

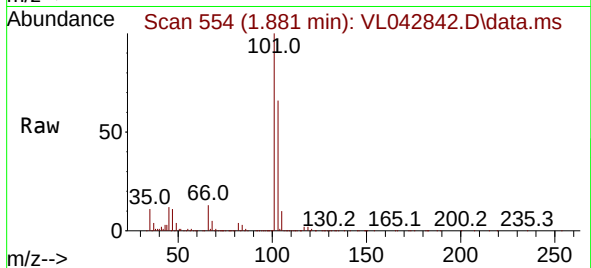
57 51.7 41.4 62.0





#11  
 Trichlorofluoromethane  
 Concen: 8.789 ppbv  
 RT: 1.881 min Scan# 554  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

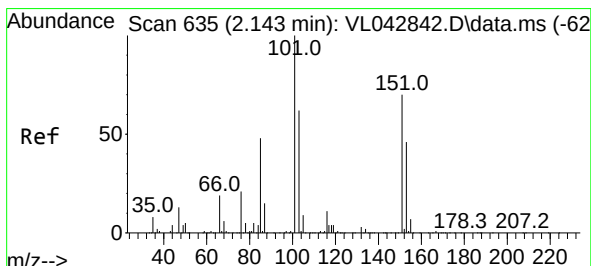
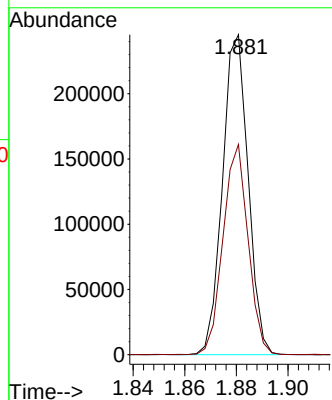
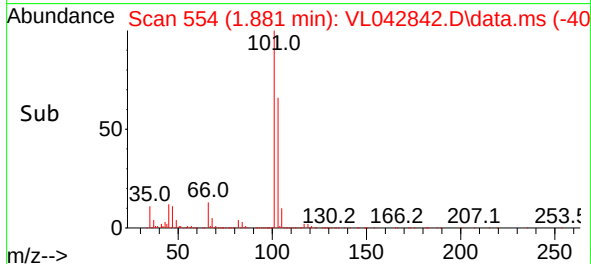
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



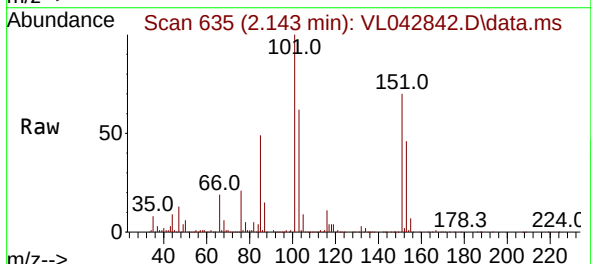
Tgt Ion:101 Resp: 16915  
 Ion Ratio Lower Upper  
 101 100  
 103 65.6 52.5 78.7

Manual Integrations  
 APPROVED

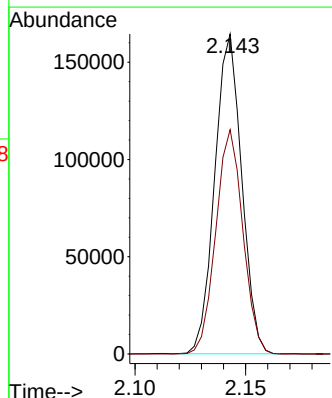
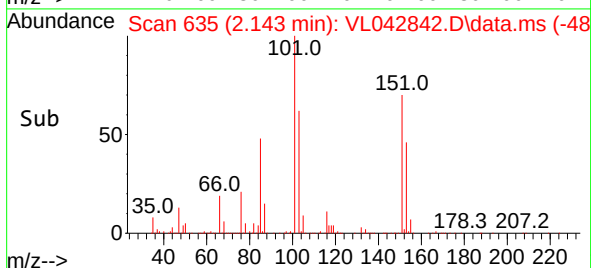
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

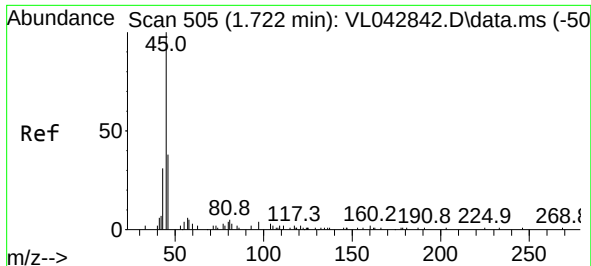


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.083 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30



Tgt Ion:101 Resp: 139340  
 Ion Ratio Lower Upper  
 101 100  
 151 70.5 56.4 84.6





#13

Ethanol

Concen: 6.690 ppbv

RT: 1.722 min Scan# 505

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 45 Resp: 6172

Ion Ratio Lower Upper

45 100

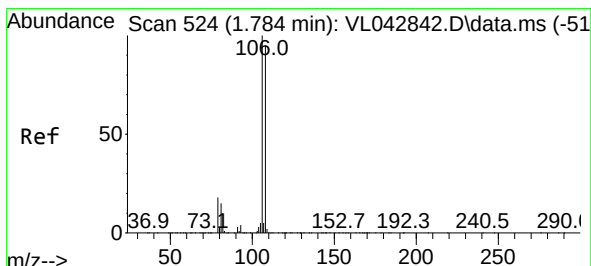
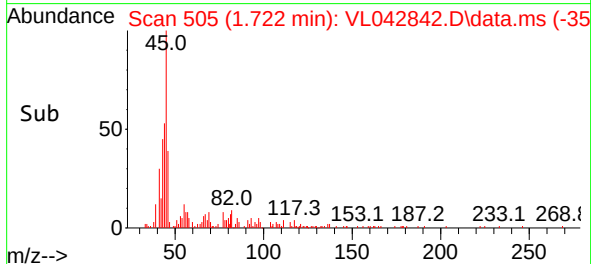
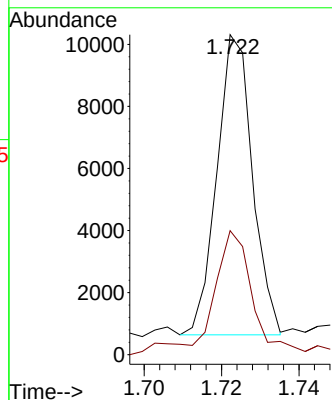
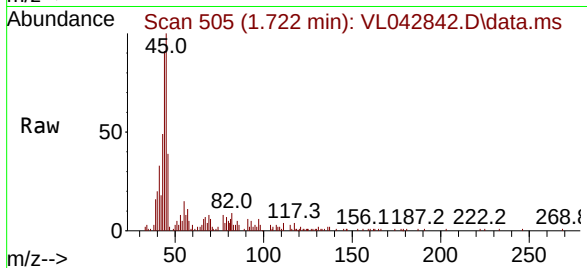
46 43.7 17.5 69.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#14

Bromoethene

Concen: 9.135 ppbv

RT: 1.784 min Scan# 524

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

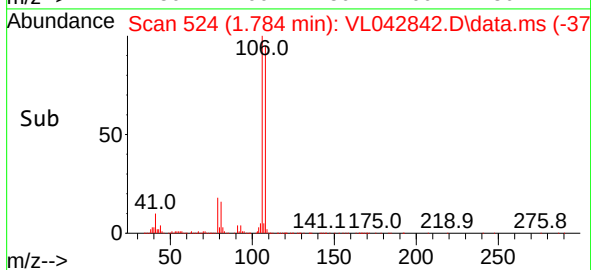
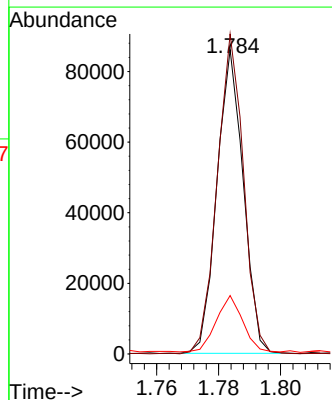
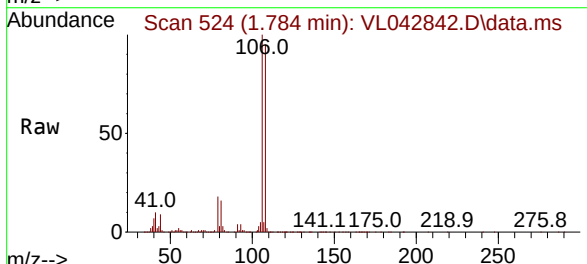
Tgt Ion:108 Resp: 50730

Ion Ratio Lower Upper

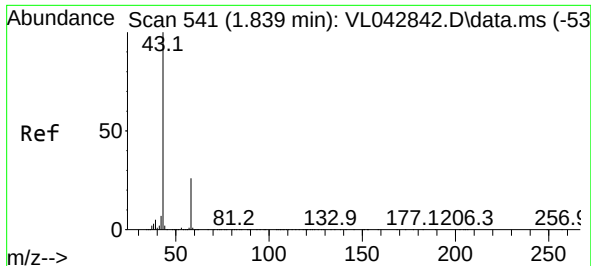
108 100

106 106.4 85.1 127.7

79 20.4 16.3 24.5

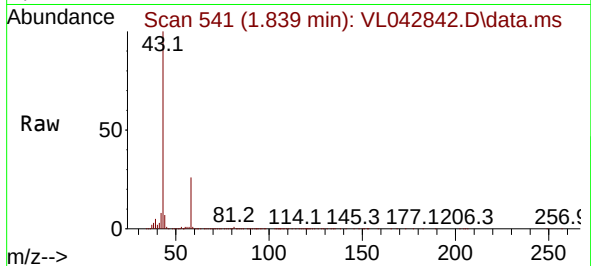






#15  
Acetone  
Concen: 7.180 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

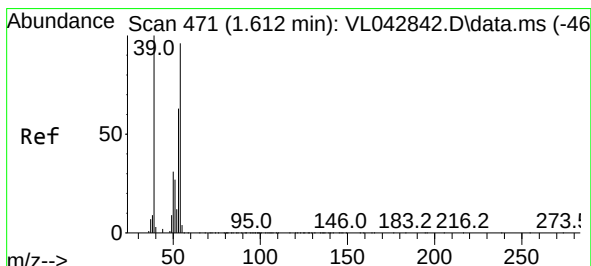
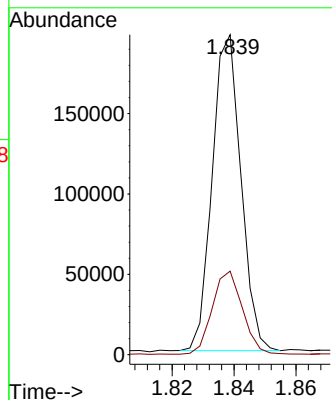
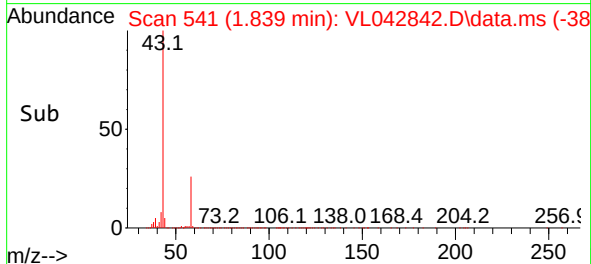
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



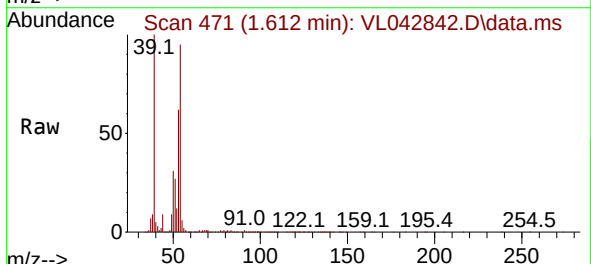
Tgt Ion: 43 Resp: 126419  
Ion Ratio Lower Upper  
43 100  
58 28.0 22.4 33.6

Manual Integrations  
APPROVED

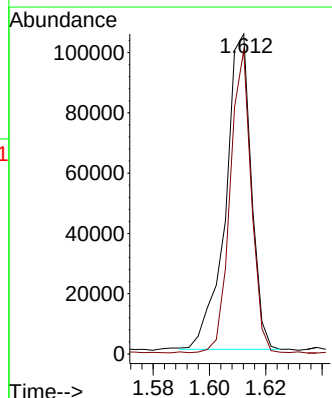
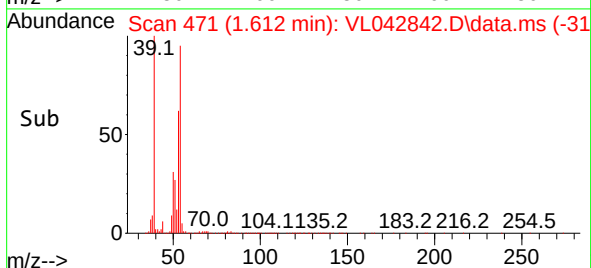
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

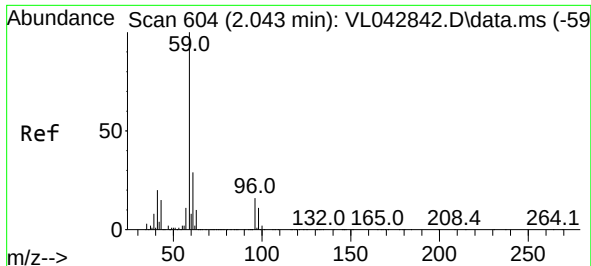


#16  
1,3-Butadiene  
Concen: 8.343 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



Tgt Ion: 39 Resp: 66595  
Ion Ratio Lower Upper  
39 100  
54 79.5 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.741 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 59 Resp: 18251

Ion Ratio Lower Upper

59 100

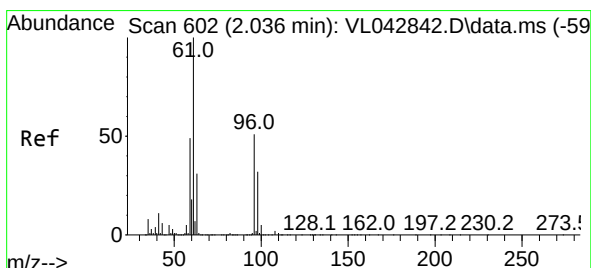
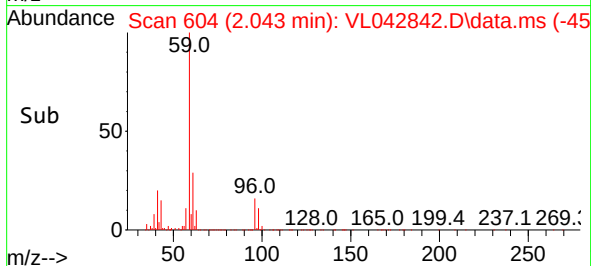
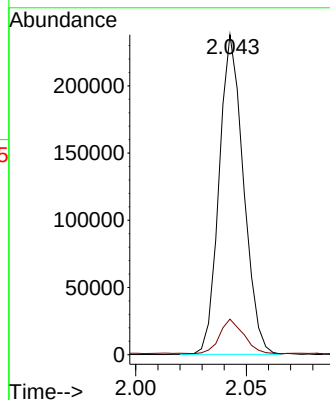
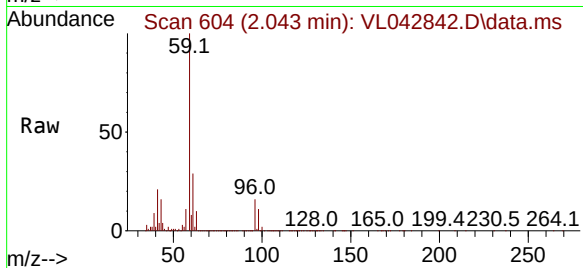
57 11.2 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#18

1,1-Dichloroethene

Concen: 9.252 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

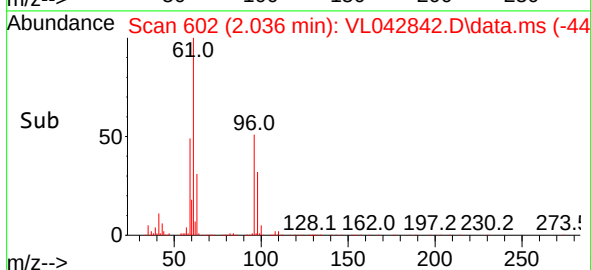
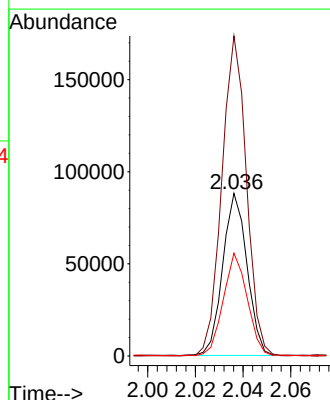
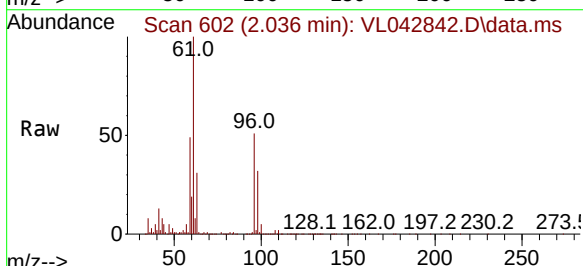
Tgt Ion: 96 Resp: 62397

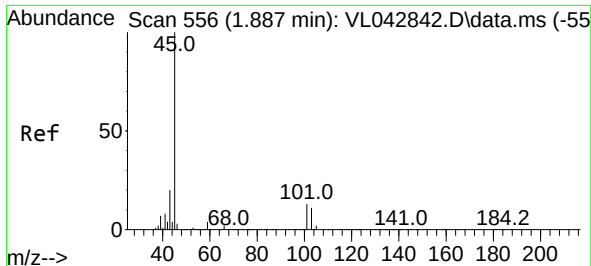
Ion Ratio Lower Upper

96 100

61 197.8 158.2 237.4

98 63.3 50.6 76.0





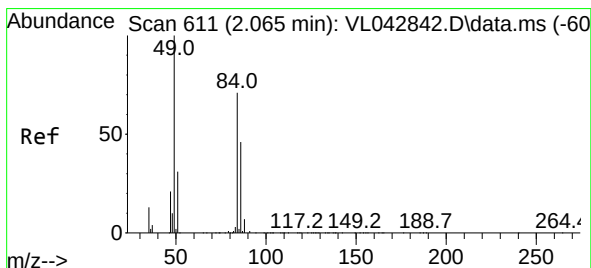
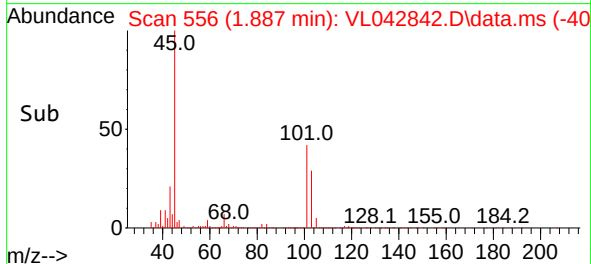
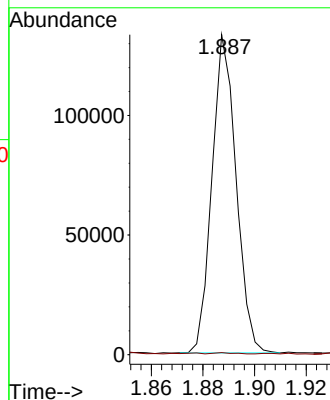
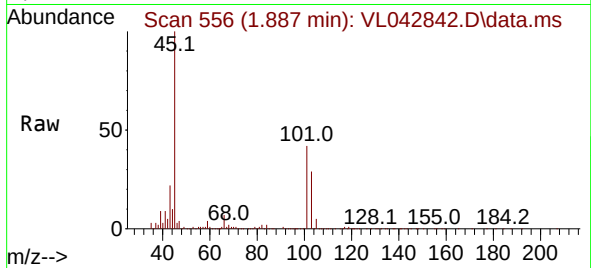
#19  
Isopropyl Alcohol  
Concen: 8.213 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 45 Resp: 8636  
Ion Ratio Lower Upper  
45 100  
58 40.9 32.7 49.1

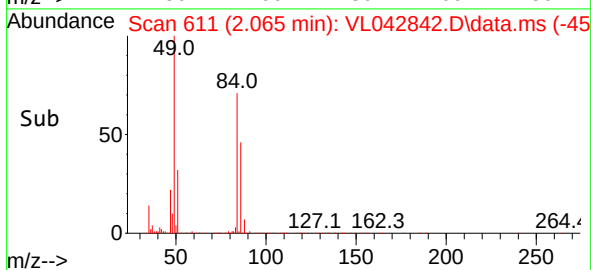
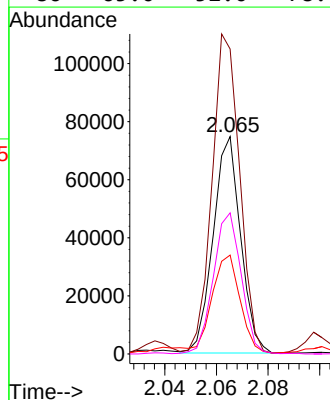
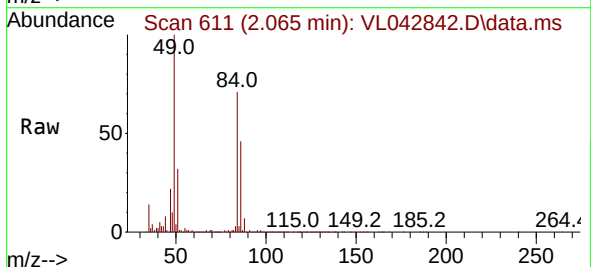
Manual Integrations  
APPROVED

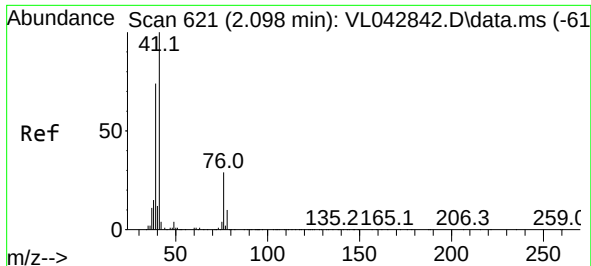
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#20  
Methylene Chloride  
Concen: 7.471 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

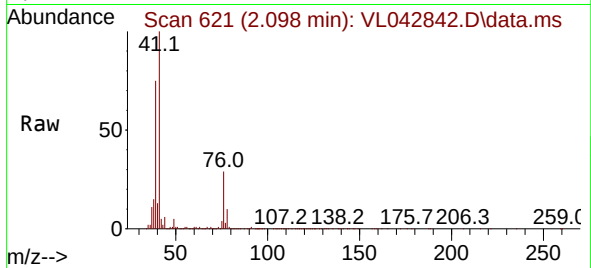
Tgt Ion: 84 Resp: 55107  
Ion Ratio Lower Upper  
84 100  
49 140.4 112.3 168.5  
51 45.0 36.0 54.0  
86 65.0 52.0 78.0





#21  
 Allyl Chloride  
 Concen: 9.093 ppbv  
 RT: 2.098 min Scan# 611  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

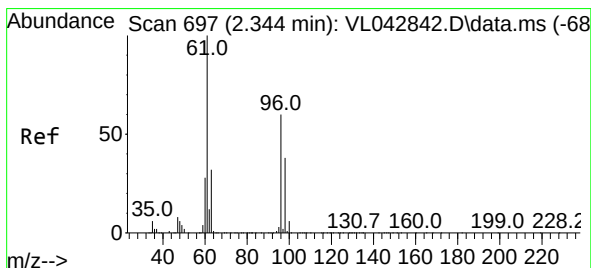
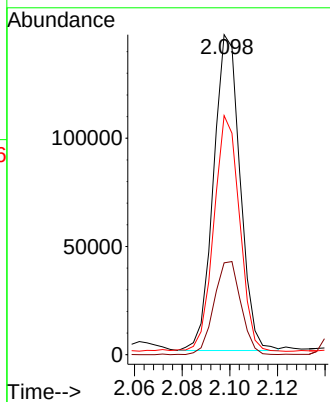
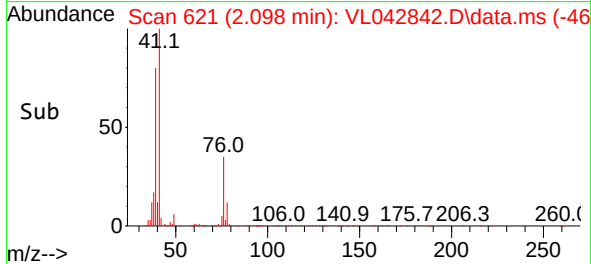
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



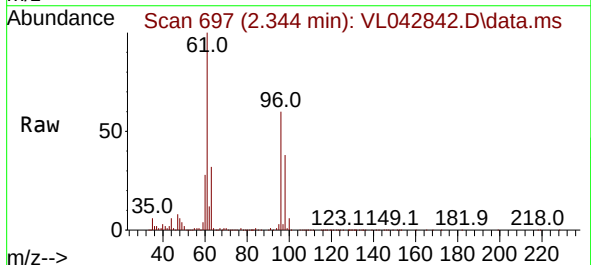
Tgt Ion: 41 Resp: 11310  
 Ion Ratio Lower Upper  
 41 100  
 76 29.9 23.9 35.9  
 39 72.2 57.8 86.6

Manual Integrations  
 APPROVED

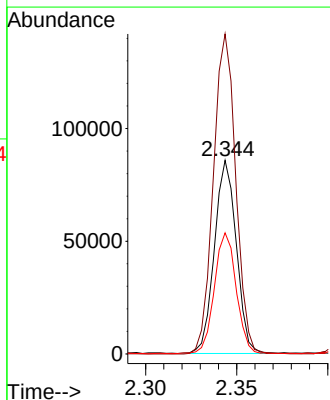
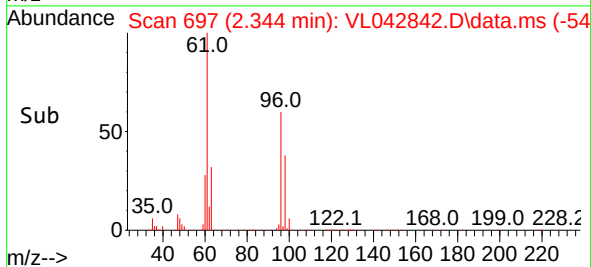
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

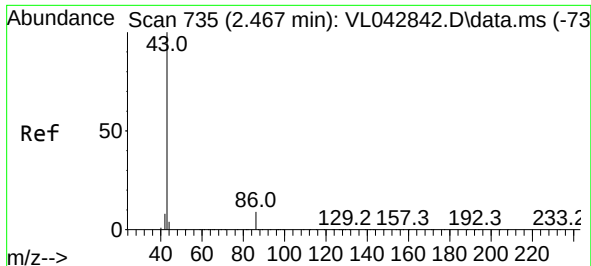


#22  
 trans-1,2-Dichloroethene  
 Concen: 9.482 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30



Tgt Ion: 96 Resp: 71518  
 Ion Ratio Lower Upper  
 96 100  
 61 165.8 132.6 199.0  
 98 62.5 50.0 75.0





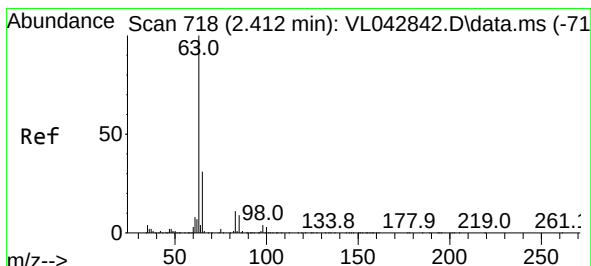
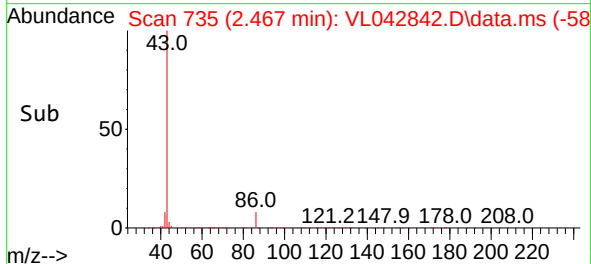
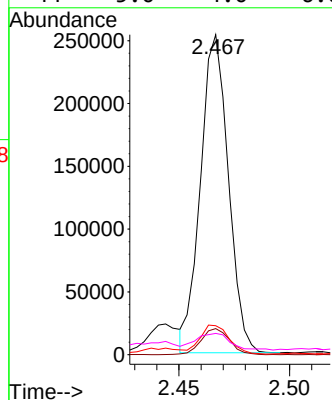
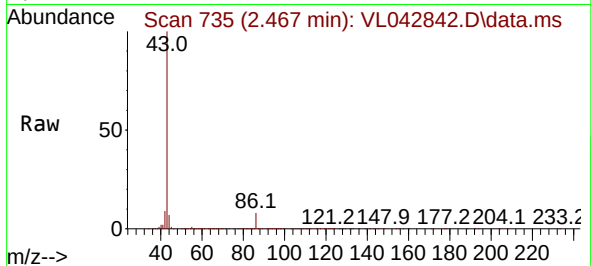
#23  
 Vinyl Acetate  
 Concen: 9.558 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 86      | 8.2   | 6.6   | 9.8   |
| 42      | 8.8   | 7.0   | 10.6  |
| 44      | 5.0   | 4.0   | 6.0   |

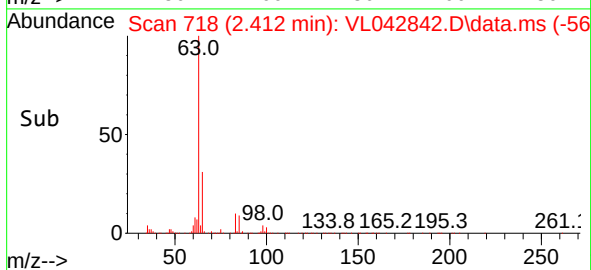
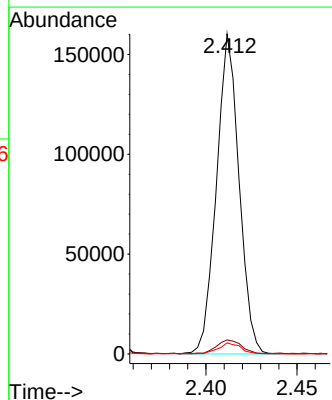
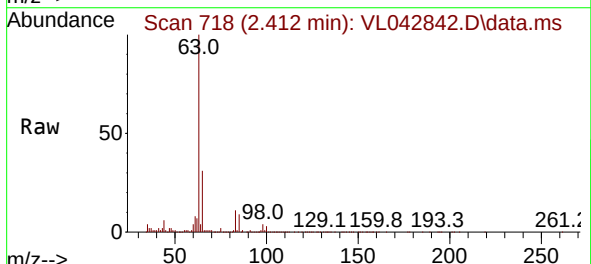
Manual Integrations  
 APPROVED

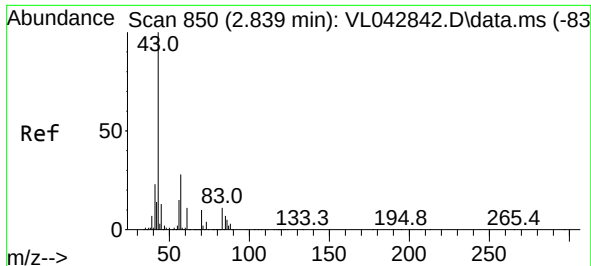
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



#24  
 1,1-Dichloroethane  
 Concen: 8.885 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 4.3   | 2.1   | 6.5   |
| 100     | 3.4   | 1.7   | 5.1   |





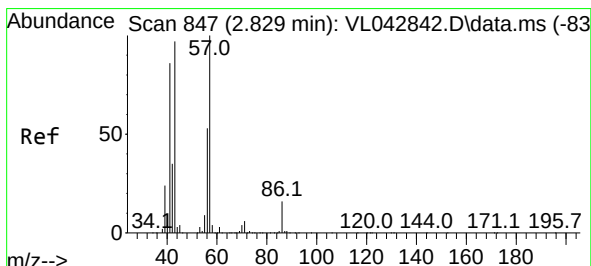
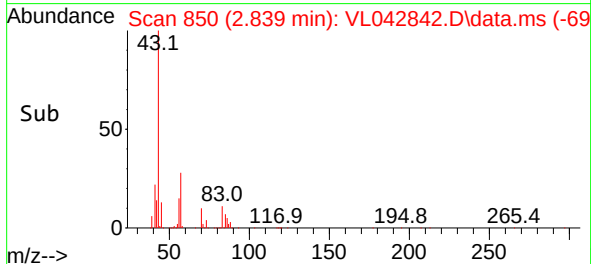
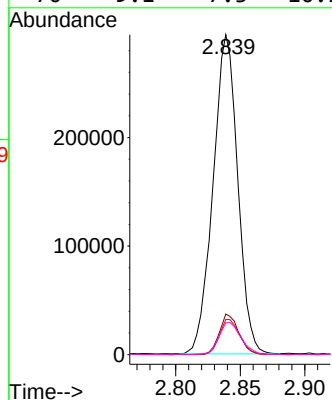
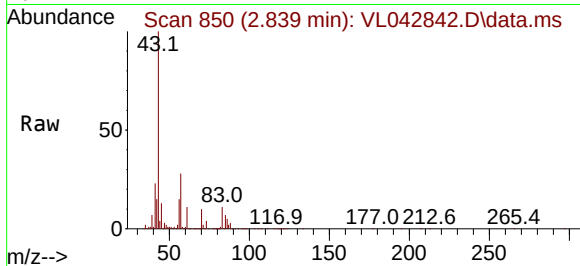
#25  
Ethyl Acetate  
Concen: 9.159 ppbv  
RT: 2.839 min Scan# 850  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 39029 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 10.1     | 8.1 12.1    |
| 61 9.3      | 7.4 11.2    |
| 70 9.1      | 7.3 10.9    |

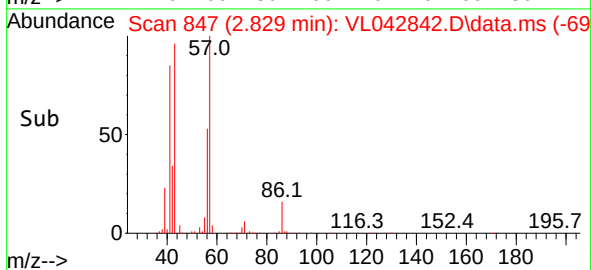
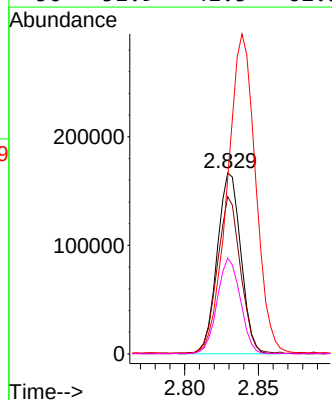
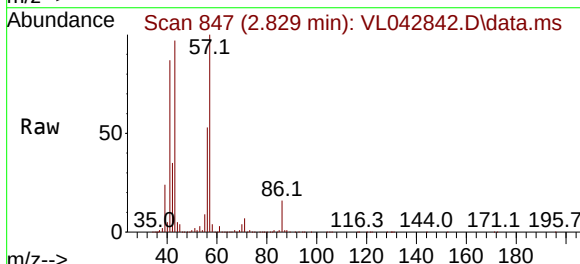
Manual Integrations  
APPROVED

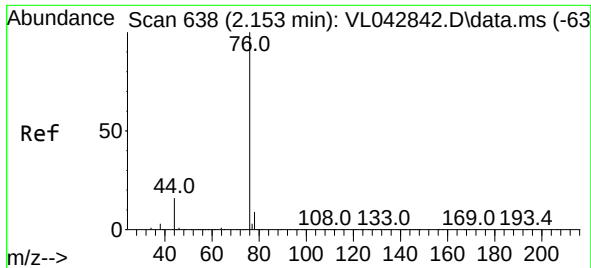
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#26  
Hexane  
Concen: 9.420 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

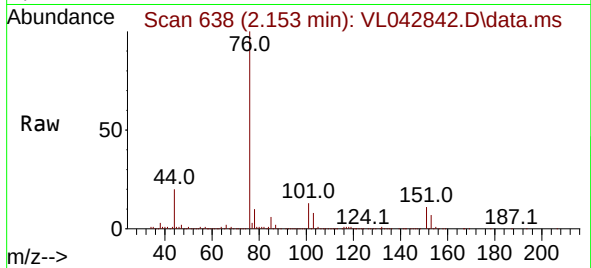
|     |         |              |       |
|-----|---------|--------------|-------|
| Tgt | Ion: 57 | Resp: 185288 |       |
|     | Ratio   | Lower        | Upper |
| 57  | 100     |              |       |
| 41  | 85.8    | 68.6         | 103.0 |
| 43  | 210.6   | 168.5        | 252.7 |
| 56  | 51.9    | 41.5         | 62.3  |





#27  
Carbon Disulfide  
Concen: 9.138 ppbv  
RT: 2.153 min Scan# 638  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

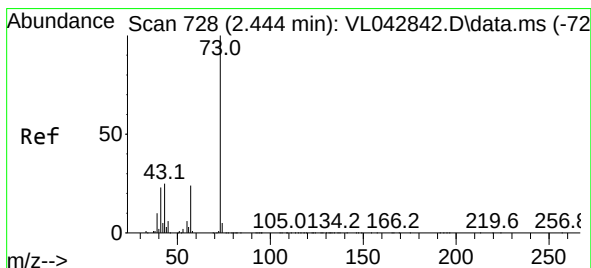
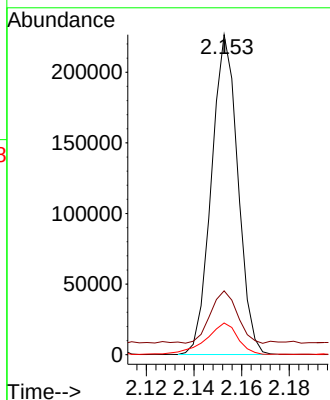
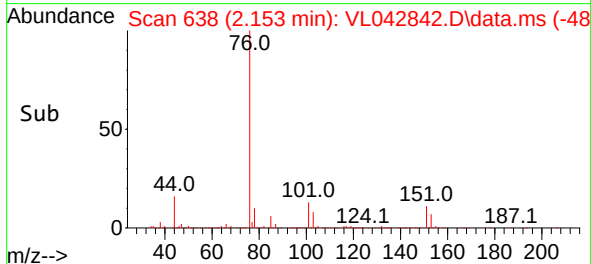
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



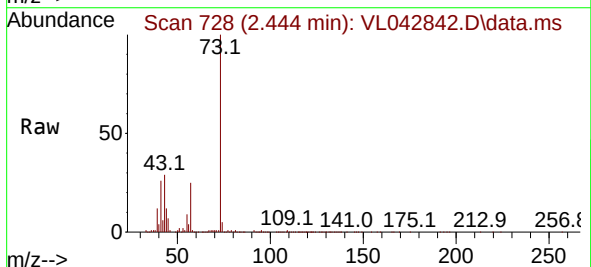
Tgt Ion: 76 Resp: 174928  
Ion Ratio Lower Upper  
76 100  
44 19.9 15.9 23.9  
78 11.9 9.5 14.3

Manual Integrations  
APPROVED

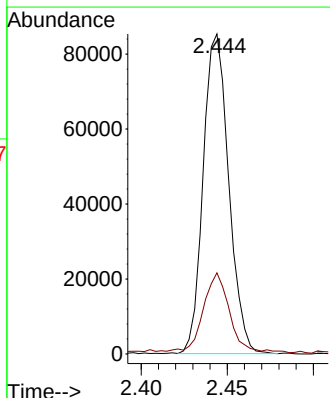
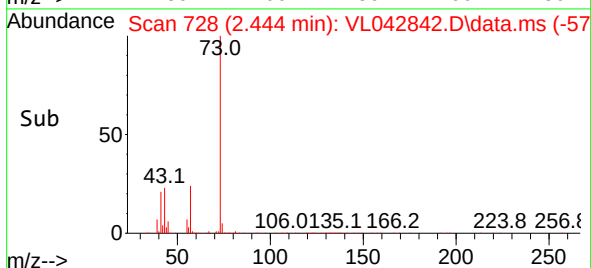
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

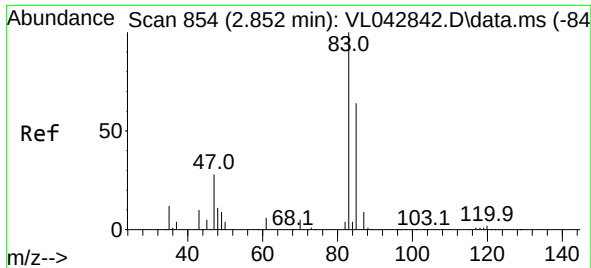


#28  
Methyl tert-Butyl Ether  
Concen: 8.767 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



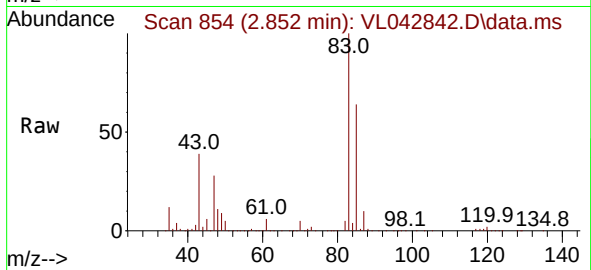
Tgt Ion: 73 Resp: 87929  
Ion Ratio Lower Upper  
73 100  
57 27.0 21.6 32.4





#29  
Chloroform  
Concen: 9.158 ppbv  
RT: 2.852 min Scan# 854  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

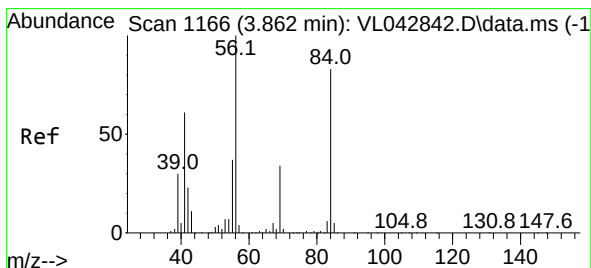
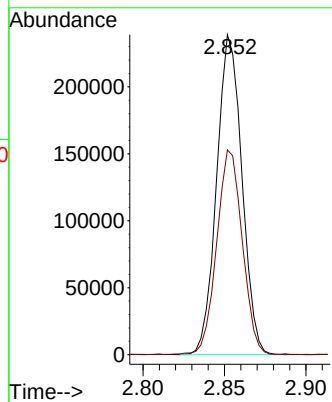
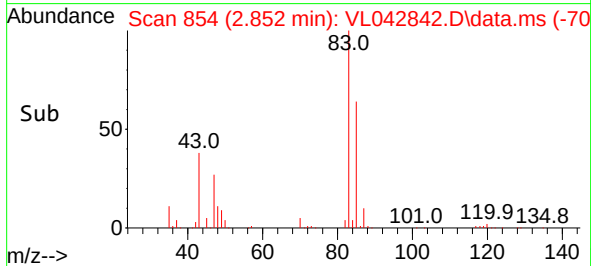
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 83 Resp: 257170  
Ion Ratio Lower Upper  
83 100  
85 63.9 51.1 76.7

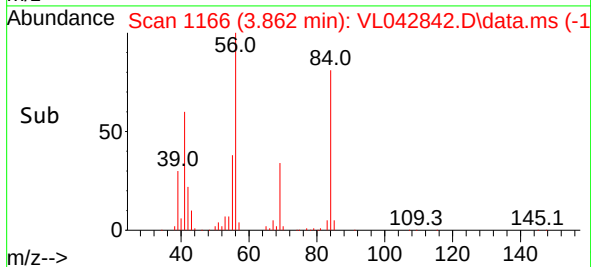
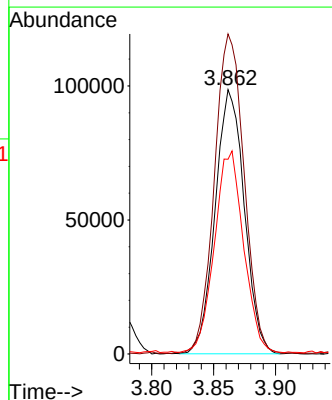
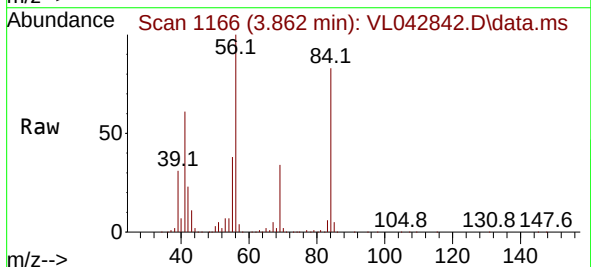
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

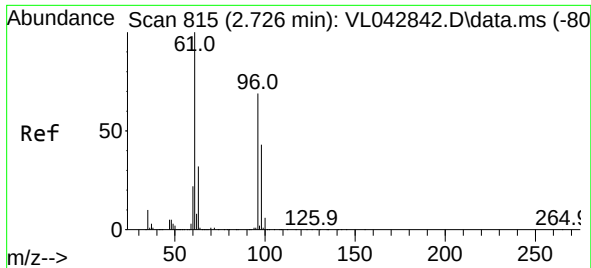


#30  
Cyclohexane  
Concen: 9.367 ppbv  
RT: 3.862 min Scan# 1166  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 84 Resp: 161540  
Ion Ratio Lower Upper  
84 100  
56 123.5 98.8 148.2  
41 76.6 61.3 91.9

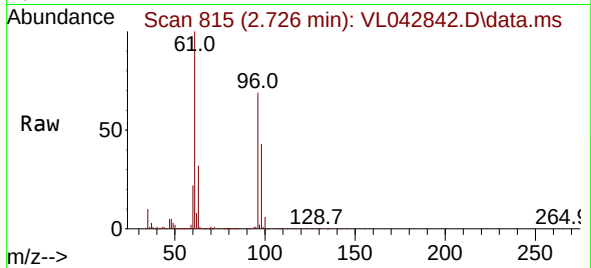






#31  
 cis-1,2-Dichloroethene  
 Concen: 9.107 ppbv  
 RT: 2.726 min Scan# 815  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

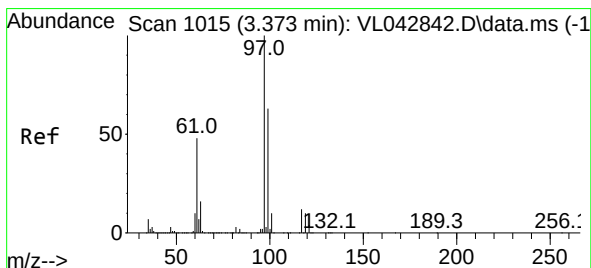
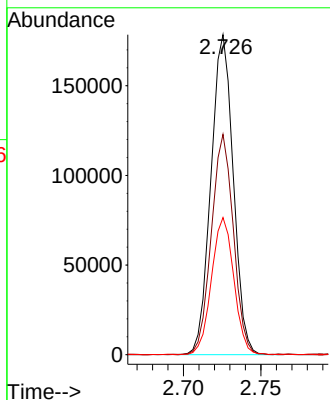
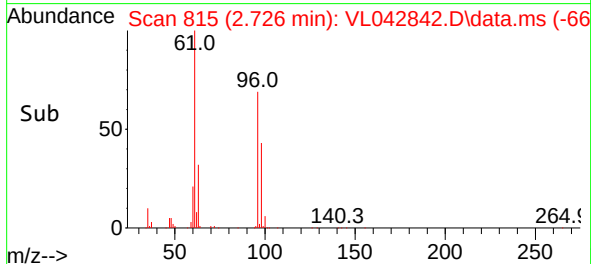
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



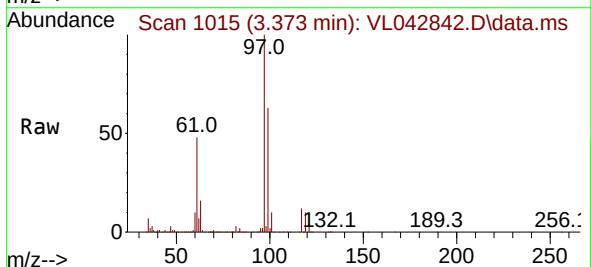
Tgt Ion: 61 Resp: 179162  
 Ion Ratio Lower Upper  
 61 100  
 96 68.8 55.0 82.6  
 98 42.9 34.3 51.5

Manual Integrations  
 APPROVED

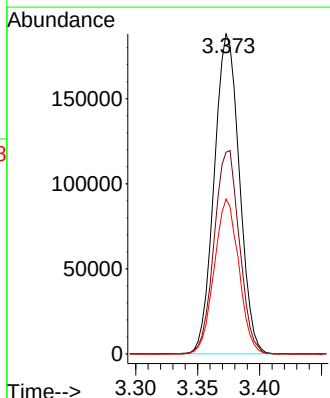
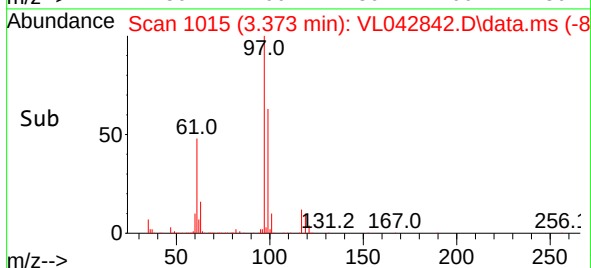
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

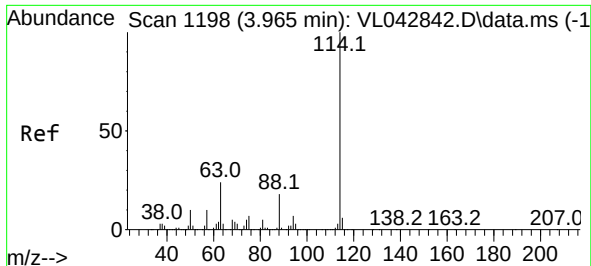


#32  
 1,1,1-Trichloroethane  
 Concen: 8.946 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30



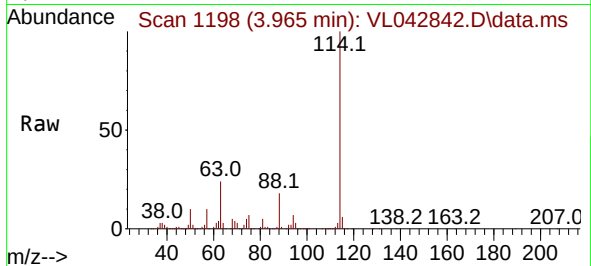
Tgt Ion: 97 Resp: 266021  
 Ion Ratio Lower Upper  
 97 100  
 99 63.8 51.0 76.6  
 61 47.5 38.0 57.0





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 1198  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

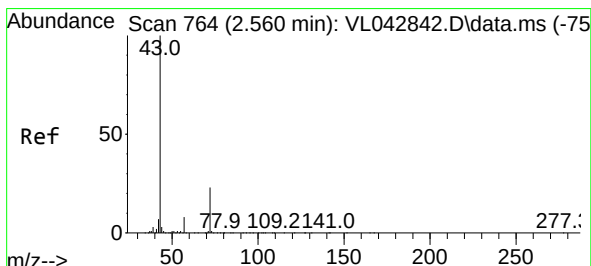
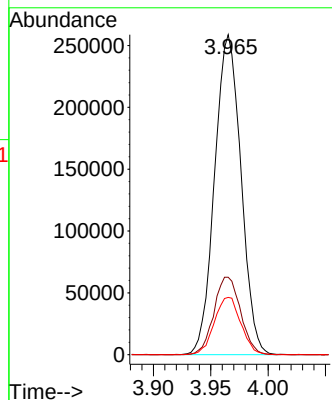
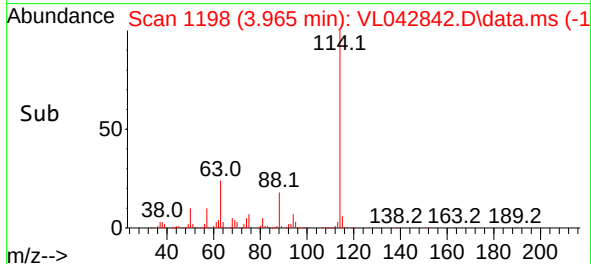
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



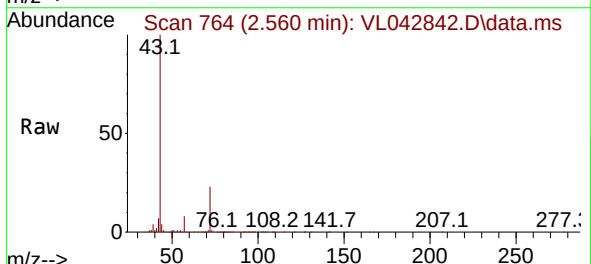
Tgt Ion:114 Resp: 413632  
Ion Ratio Lower Upper  
114 100  
63 24.6 19.7 29.5  
88 18.0 14.4 21.6

Manual Integrations  
APPROVED

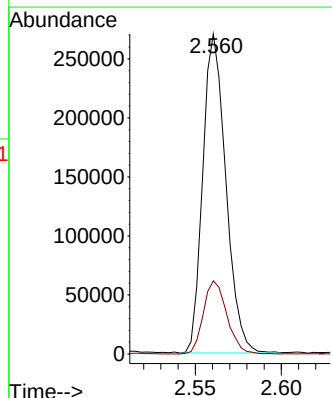
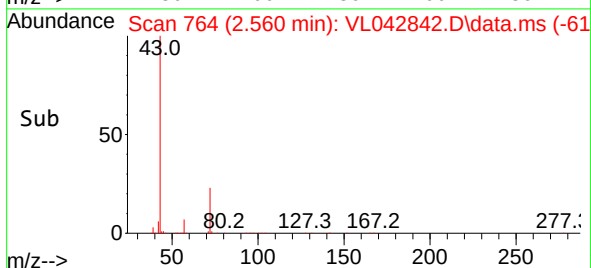
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

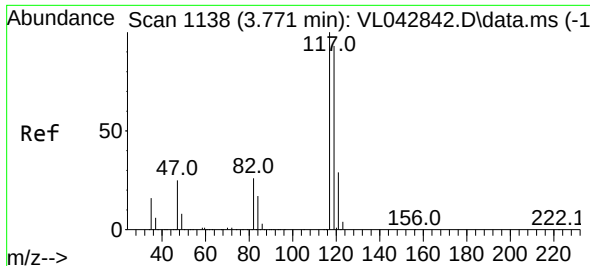


#34  
2-Butanone  
Concen: 9.033 ppbv  
RT: 2.560 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



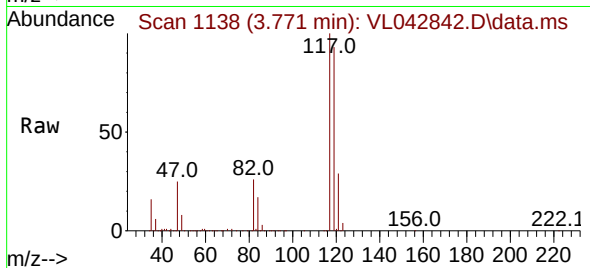
Tgt Ion: 43 Resp: 252300  
Ion Ratio Lower Upper  
43 100  
72 23.3 18.6 28.0





#35  
Carbon Tetrachloride  
Concen: 9.222 ppbv  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

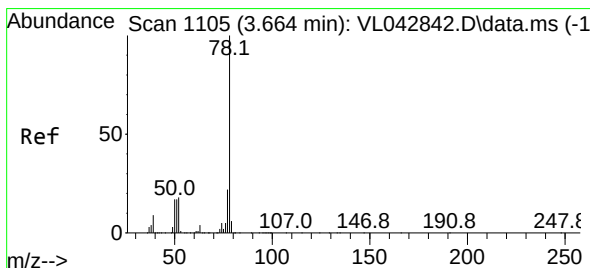
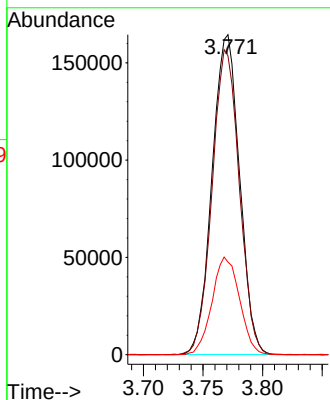
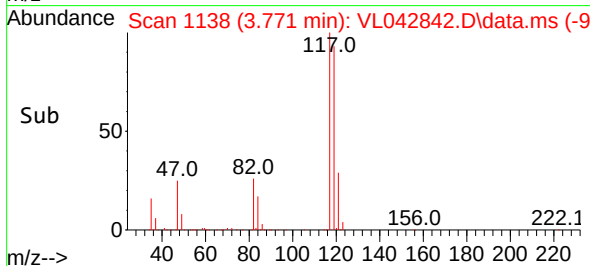
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



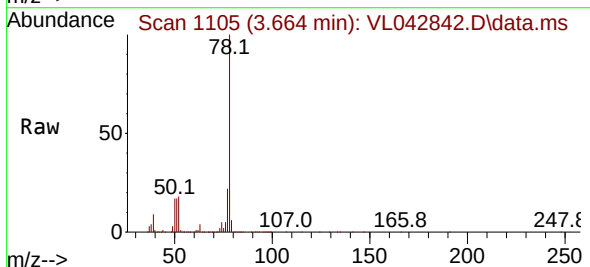
Tgt Ion:117 Resp: 26298  
Ion Ratio Lower Upper  
117 100  
119 93.4 74.7 112.1  
121 29.0 23.2 34.8

Manual Integrations  
APPROVED

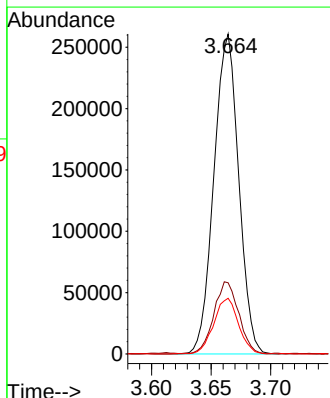
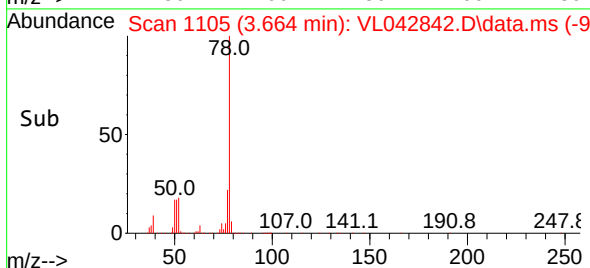
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

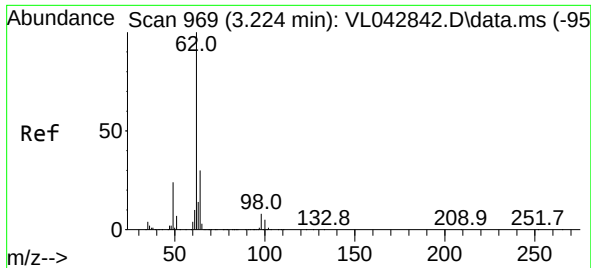


#36  
Benzene  
Concen: 9.521 ppbv  
RT: 3.664 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



Tgt Ion: 78 Resp: 377113  
Ion Ratio Lower Upper  
78 100  
77 22.1 17.7 26.5  
50 17.4 13.9 20.9





#37

1,2-Dichloroethane

Concen: 9.653 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 62 Resp: 19976

Ion Ratio Lower Upper

62 100

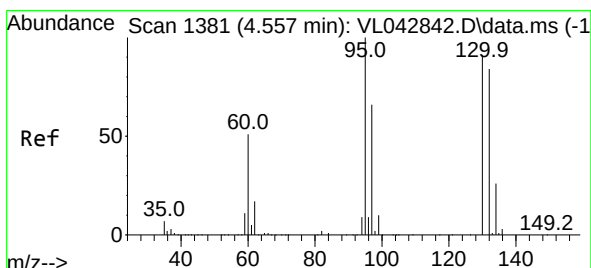
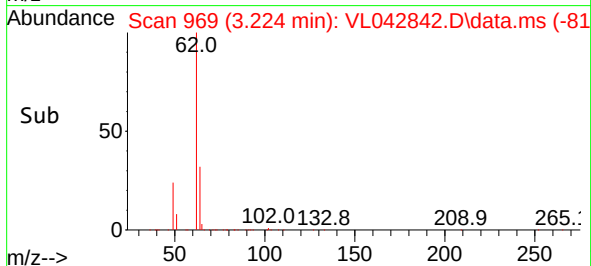
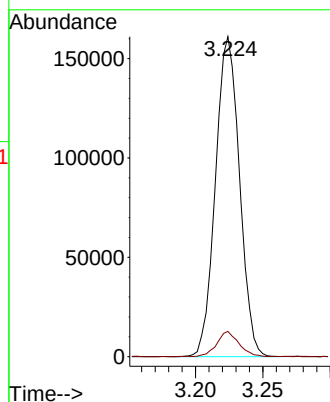
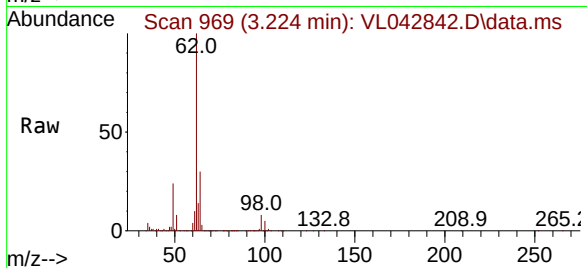
98 7.4 5.9 8.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#38

Trichloroethene

Concen: 9.115 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion:130 Resp: 164881

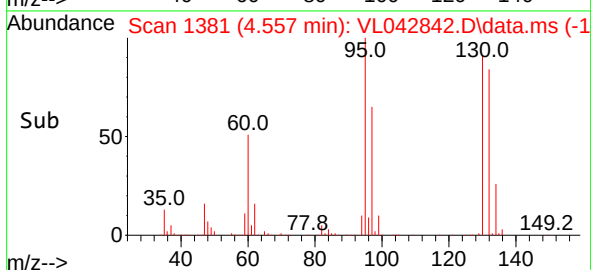
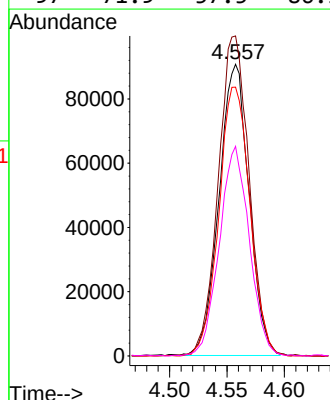
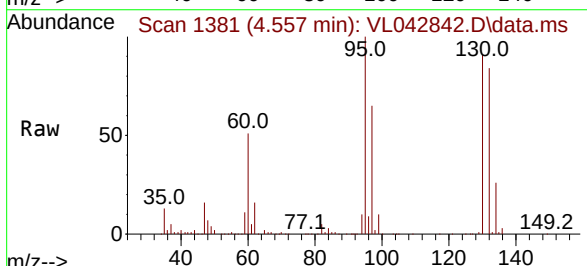
Ion Ratio Lower Upper

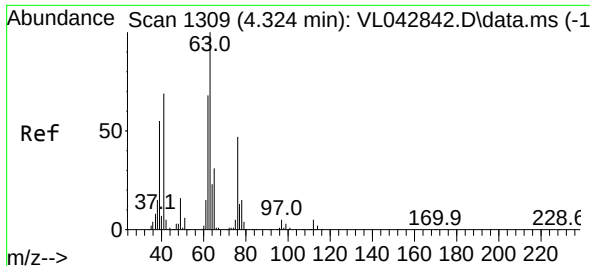
130 100

95 109.5 87.6 131.4

132 92.3 73.8 110.8

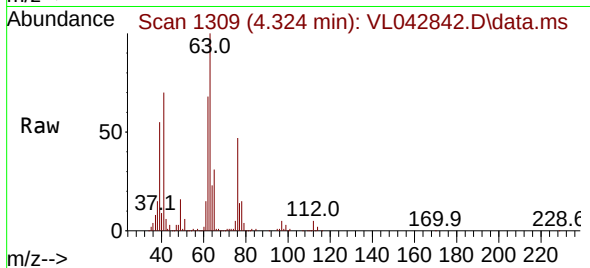
97 71.9 57.5 86.3





#39  
1,2-Dichloropropane  
Concen: 9.263 ppbv  
RT: 4.324 min Scan# 1309  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

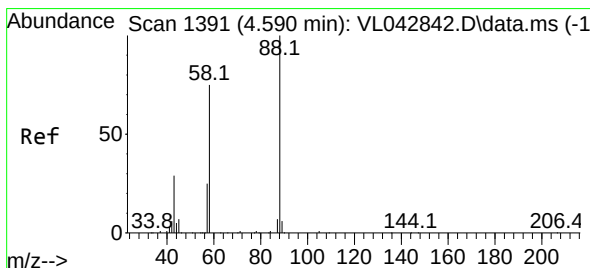
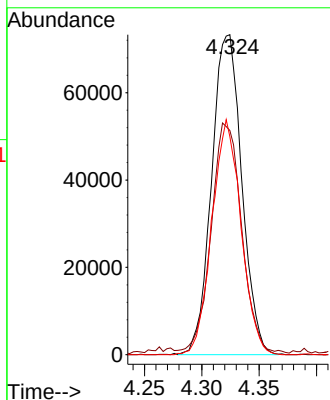
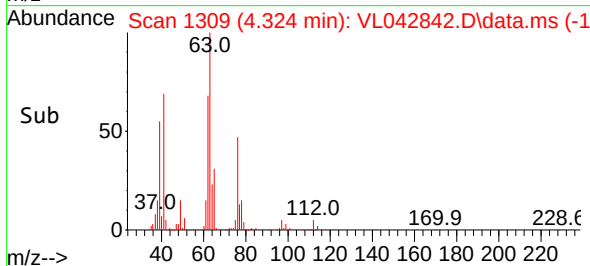
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



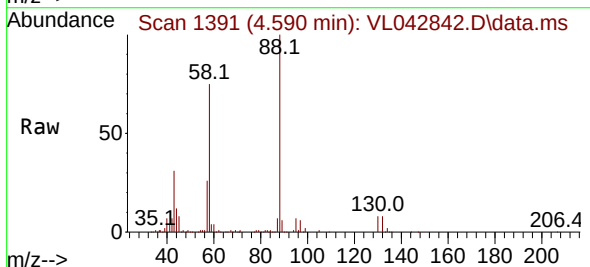
Tgt Ion: 63 Resp: 133990  
Ion Ratio Lower Upper  
63 100  
41 68.7 55.0 82.4  
62 68.0 54.4 81.6

Manual Integrations  
APPROVED

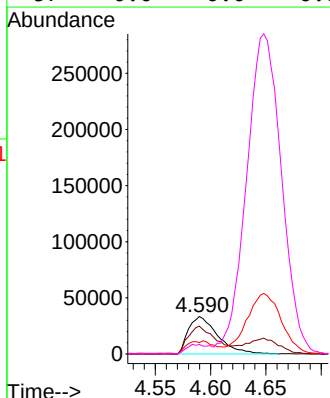
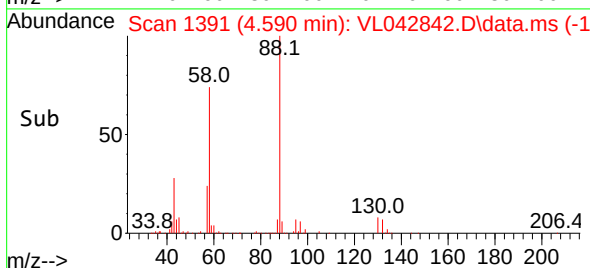
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

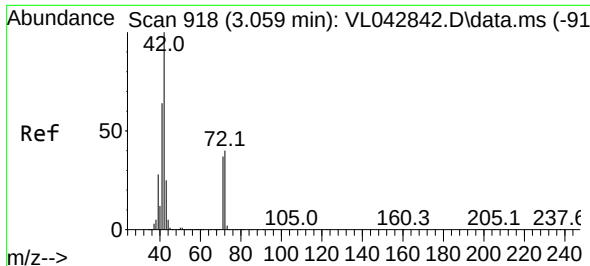


#40  
1,4-Dioxane  
Concen: 9.064 ppbv  
RT: 4.590 min Scan# 1391  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



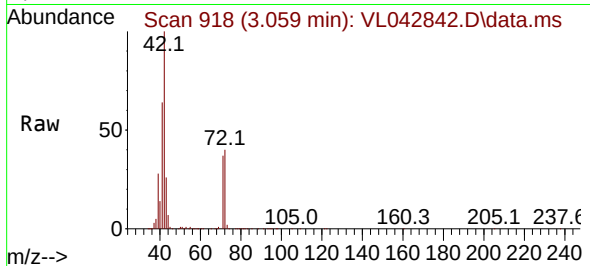
Tgt Ion: 88 Resp: 61378  
Ion Ratio Lower Upper  
88 100  
58 67.2 53.8 80.6  
43 28.5 22.8 34.2  
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 9.442 ppbv  
RT: 3.059 min Scan# 918  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

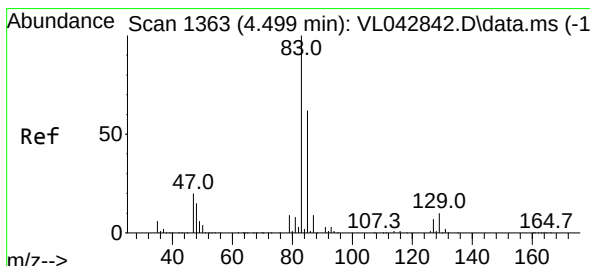
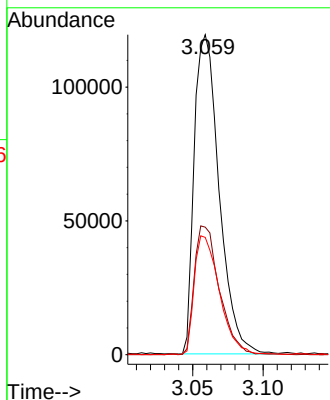
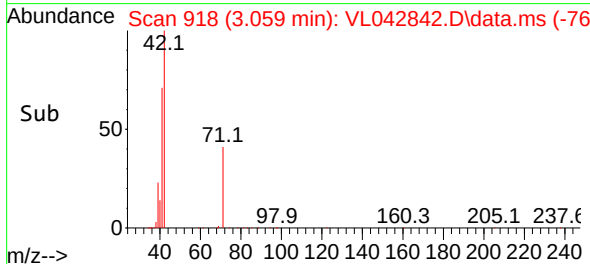
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



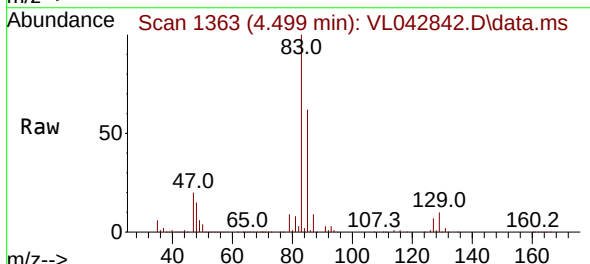
Tgt Ion: 42 Resp: 147025  
Ion Ratio Lower Upper  
42 100  
72 40.7 32.6 48.8  
71 37.5 30.0 45.0

Manual Integrations  
APPROVED

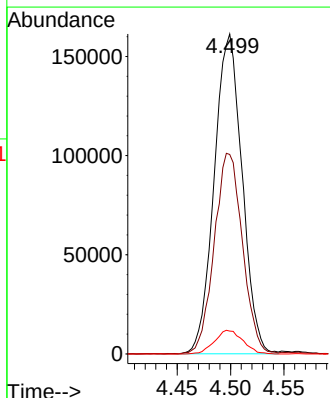
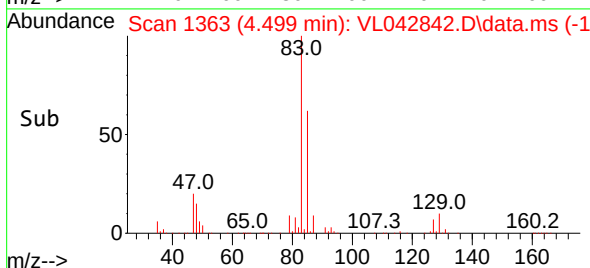
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

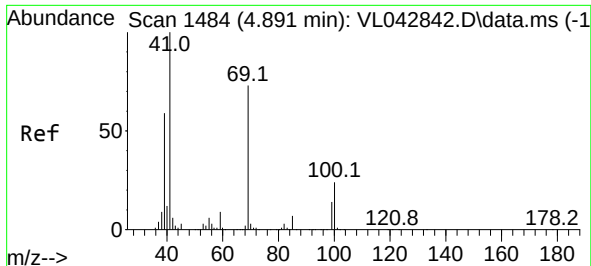


#42  
Bromodichloromethane  
Concen: 9.499 ppbv  
RT: 4.499 min Scan# 1363  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



Tgt Ion: 83 Resp: 292909  
Ion Ratio Lower Upper  
83 100  
85 62.3 49.8 74.8  
127 7.2 5.8 8.6





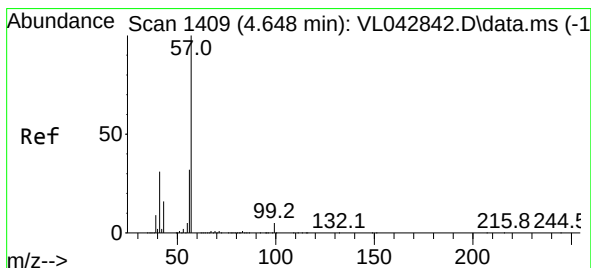
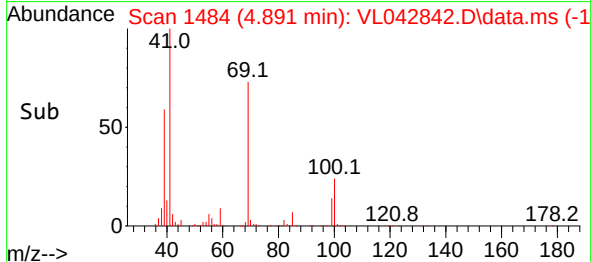
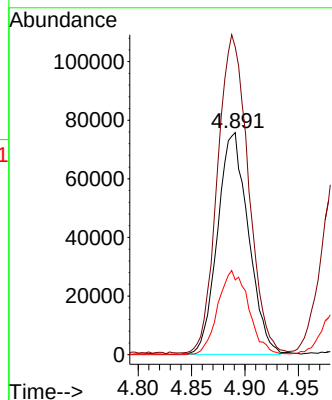
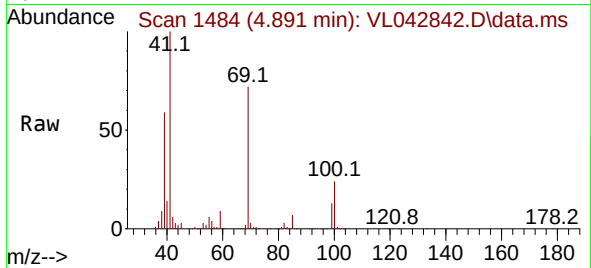
#43  
Methyl Methacrylate  
Concen: 9.357 ppbv  
RT: 4.891 min Scan# 1484  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 69 Resp: 152035  
Ion Ratio Lower Upper  
69 100  
41 143.3 114.6 172.0  
100 37.8 30.2 45.4

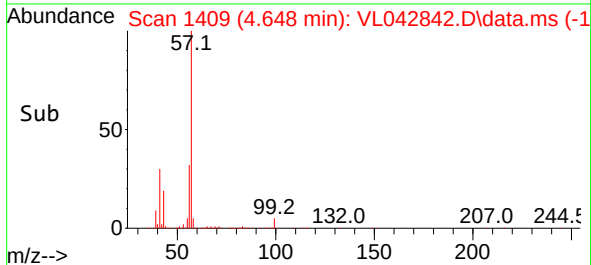
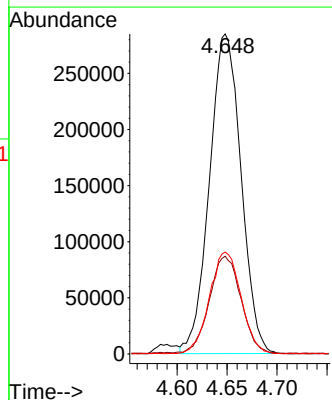
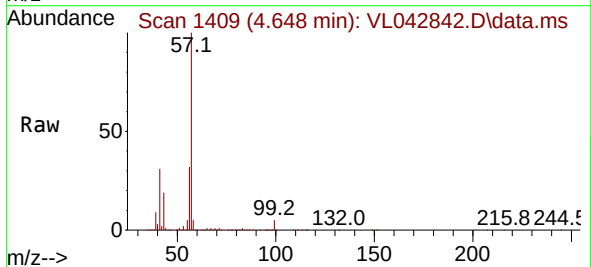
Manual Integrations  
APPROVED

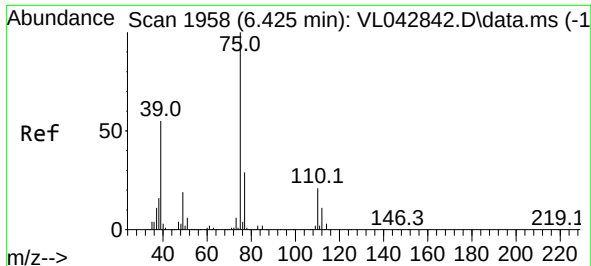
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#44  
2,2,4-Trimethylpentane  
Concen: 9.420 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

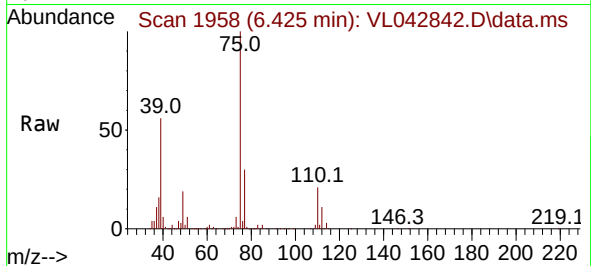
Tgt Ion: 57 Resp: 626465  
Ion Ratio Lower Upper  
57 100  
41 31.0 24.8 37.2  
56 31.9 25.5 38.3





#45  
 t-1,3-Dichloropropene  
 Concen: 9.616 ppbv  
 RT: 6.425 min Scan# 1958  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

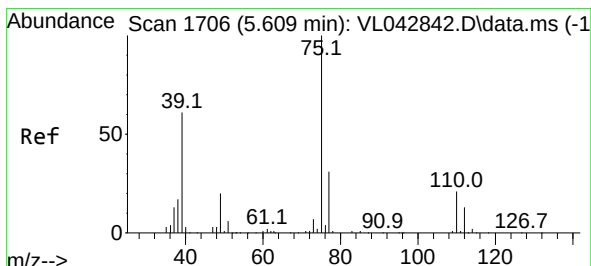
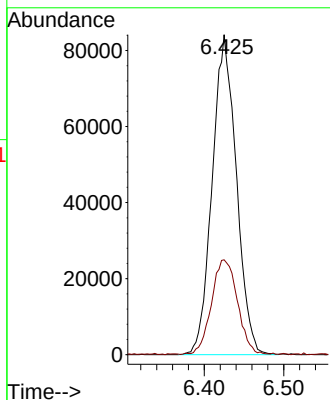
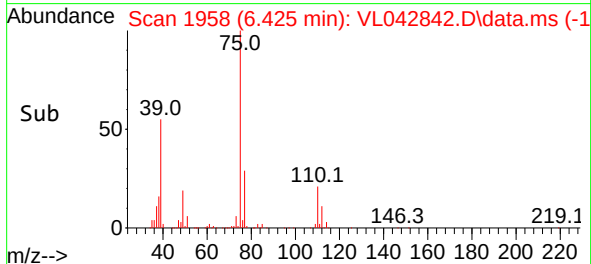
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



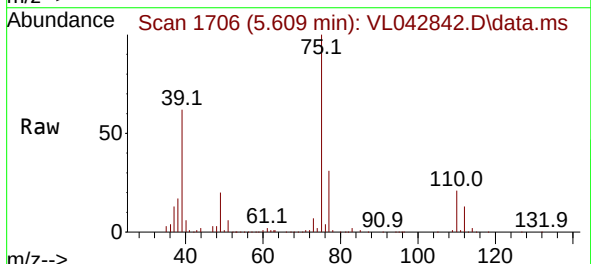
Tgt Ion: 75 Resp: 17720  
 Ion Ratio Lower Upper  
 75 100  
 77 29.7 23.8 35.6

Manual Integrations  
 APPROVED

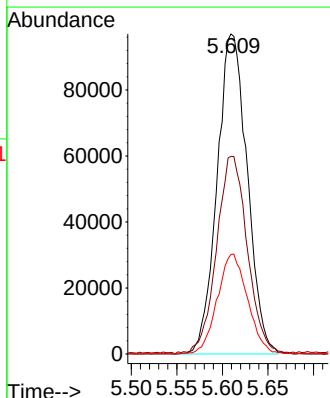
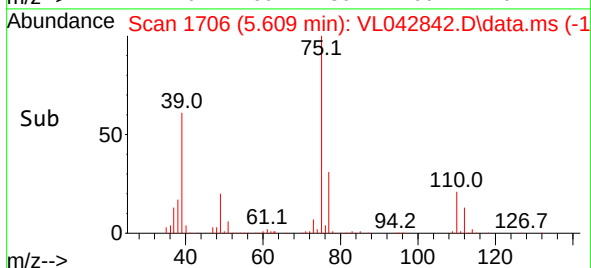
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



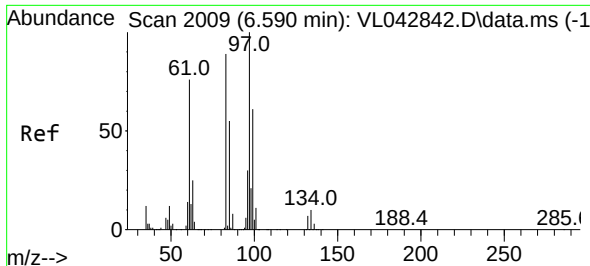
#46  
 cis-1,3-Dichloropropene  
 Concen: 9.635 ppbv  
 RT: 5.609 min Scan# 1706  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30



Tgt Ion: 75 Resp: 222921  
 Ion Ratio Lower Upper  
 75 100  
 39 61.1 48.9 73.3  
 77 31.1 24.9 37.3

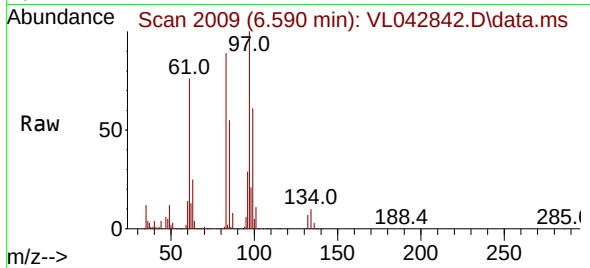






#47  
1,1,2-Trichloroethane  
Concen: 9.215 ppbv  
RT: 6.590 min Scan# 2009  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

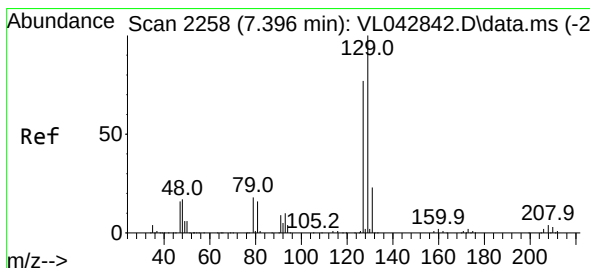
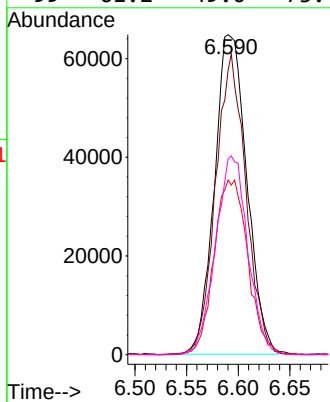
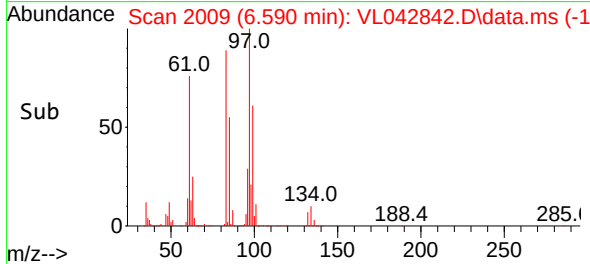
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



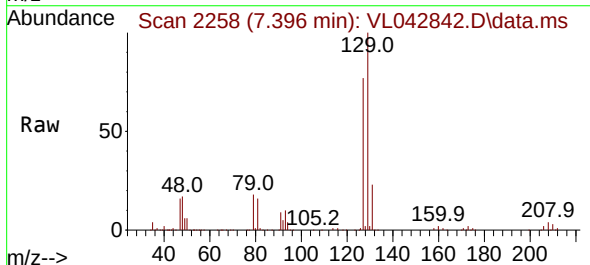
Tgt Ion: 97 Resp: 14110  
Ion Ratio Lower Upper  
97 100  
83 88.7 71.0 106.4  
85 54.5 43.6 65.4  
99 61.2 49.0 73.4

Manual Integrations  
APPROVED

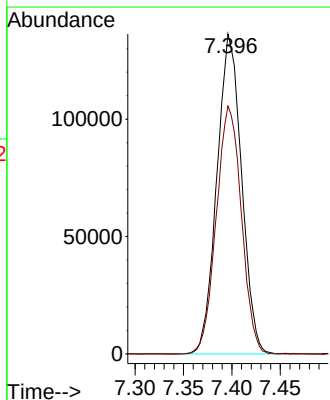
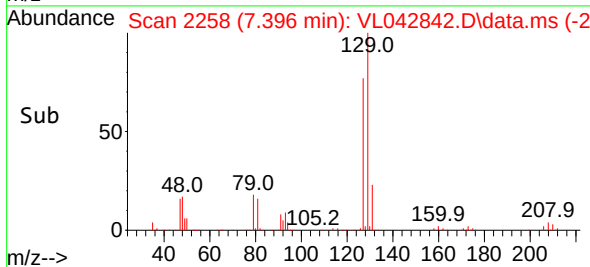
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

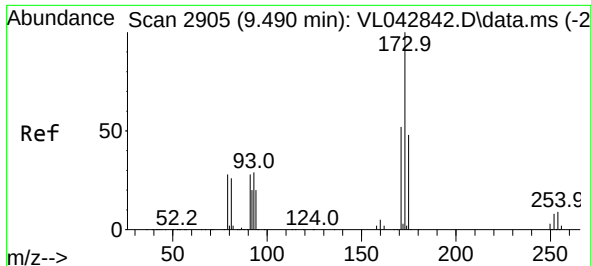


#48  
Dibromochloromethane  
Concen: 9.739 ppbv  
RT: 7.396 min Scan# 2258  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



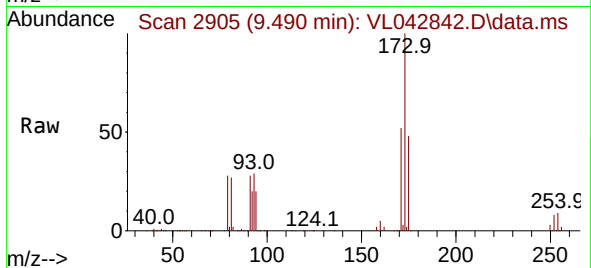
Tgt Ion:129 Resp: 241553  
Ion Ratio Lower Upper  
129 100  
127 78.8 39.4 118.2





#49  
Bromoform  
Concen: 9.923 ppbv  
RT: 9.490 min Scan# 2905  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

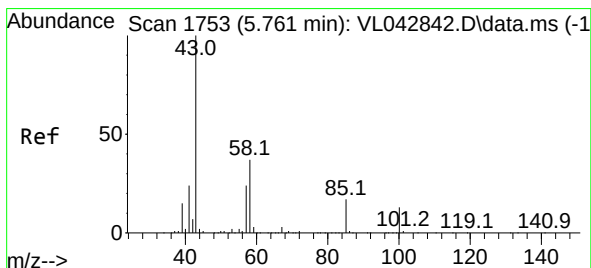
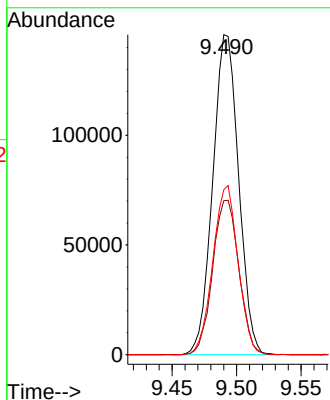
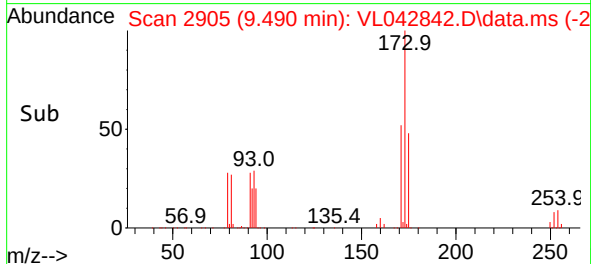
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion: 173 Resp: 202975  
Ion Ratio Lower Upper  
173 100  
175 49.0 39.2 58.8  
171 51.6 41.3 61.9

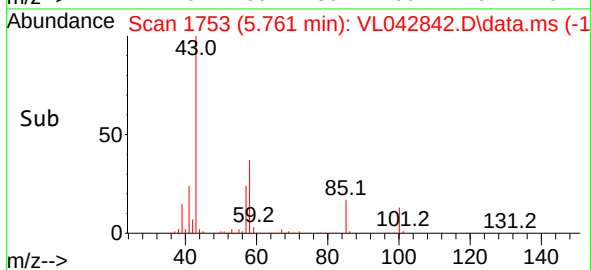
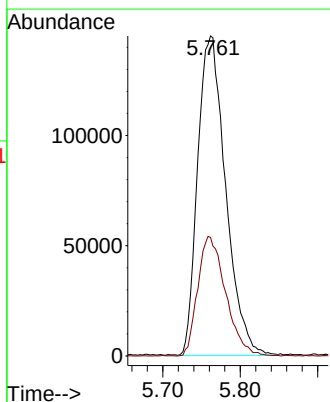
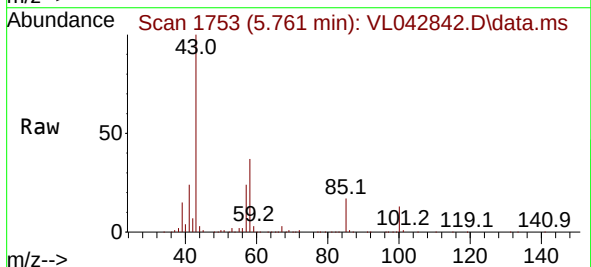
Manual Integrations  
APPROVED

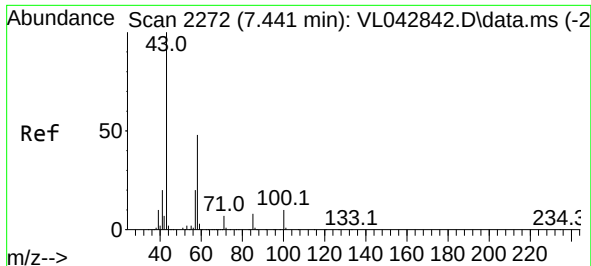
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#50  
4-Methyl-2-Pentanone  
Concen: 9.616 ppbv  
RT: 5.761 min Scan# 1753  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

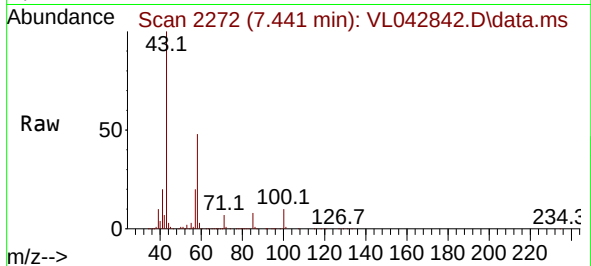
Tgt Ion: 43 Resp: 364306  
Ion Ratio Lower Upper  
43 100  
58 37.3 29.8 44.8





#51  
2-Hexanone  
Concen: 9.730 ppbv  
RT: 7.441 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

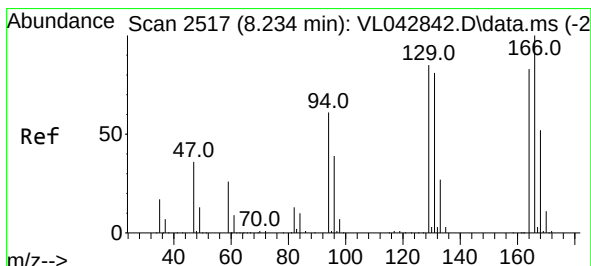
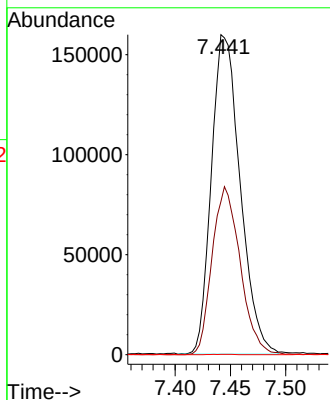
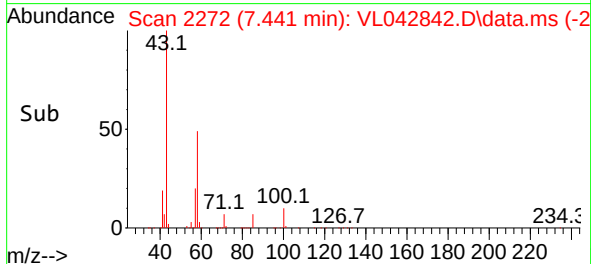
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



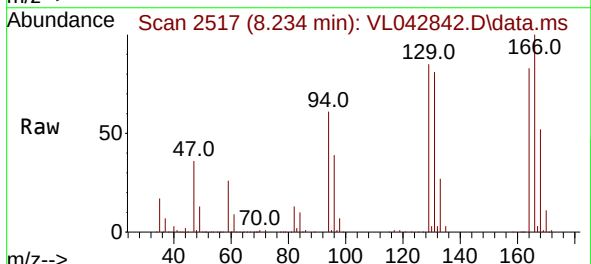
Tgt Ion: 43 Resp: 28905  
Ion Ratio Lower Upper  
43 100  
58 51.3 41.0 61.6  
98 0.1 0.1 0.1

Manual Integrations  
APPROVED

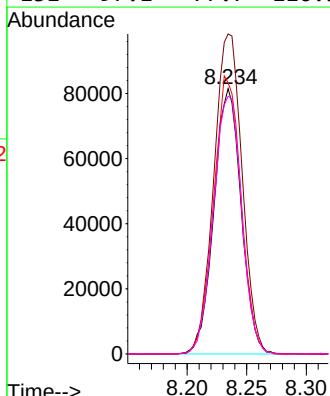
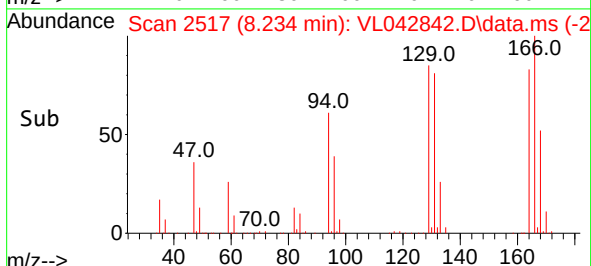
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

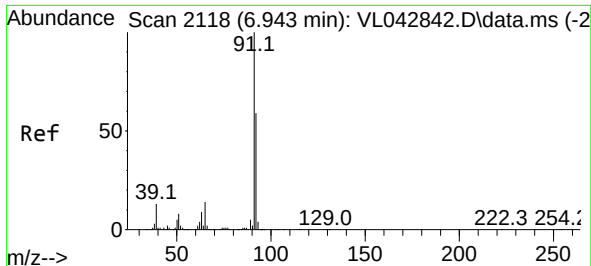


#52  
Tetrachloroethene  
Concen: 9.026 ppbv  
RT: 8.234 min Scan# 2517  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



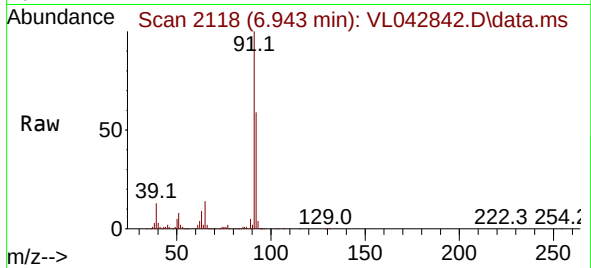
Tgt Ion:164 Resp: 129484  
Ion Ratio Lower Upper  
164 100  
166 120.6 96.5 144.7  
129 102.2 81.8 122.6  
131 97.1 77.7 116.5





#53  
Toluene  
Concen: 9.407 ppbv  
RT: 6.943 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

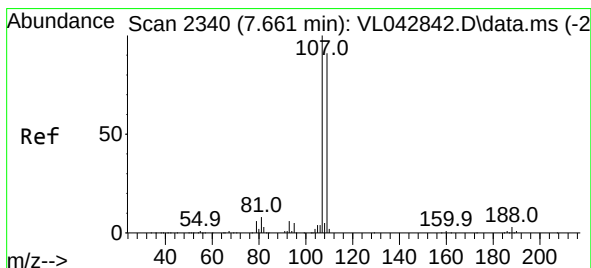
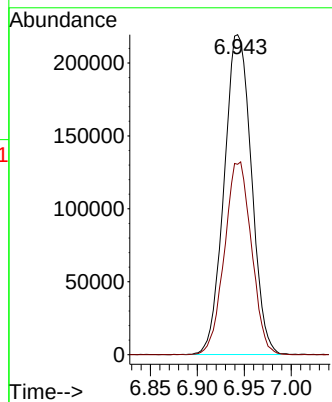
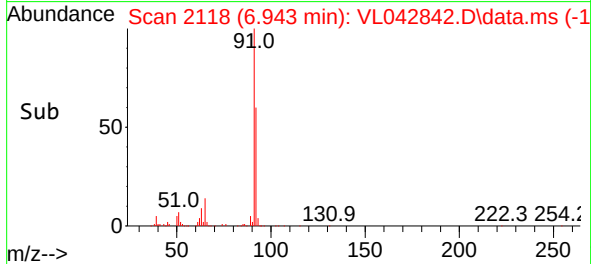
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



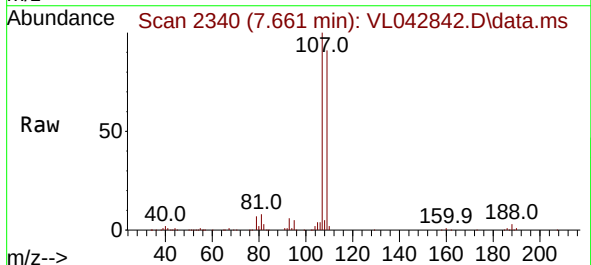
Tgt Ion: 91 Resp: 443400  
Ion Ratio Lower Upper  
91 100  
92 59.7 47.8 71.6

Manual Integrations  
APPROVED

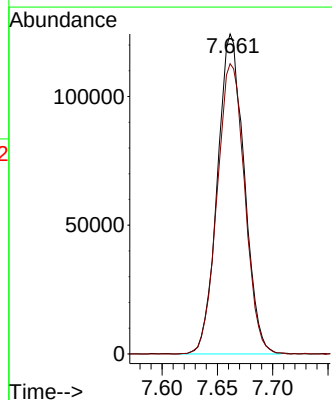
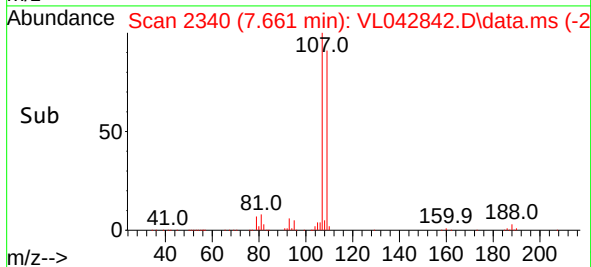
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

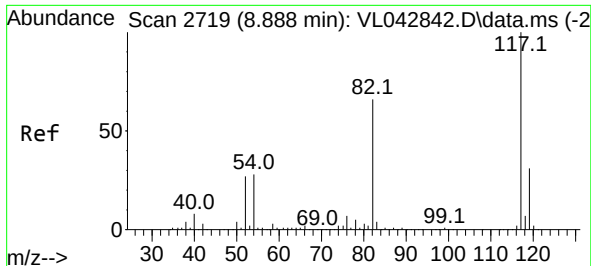


#54  
1,2-Dibromoethane  
Concen: 9.345 ppbv  
RT: 7.661 min Scan# 2340  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



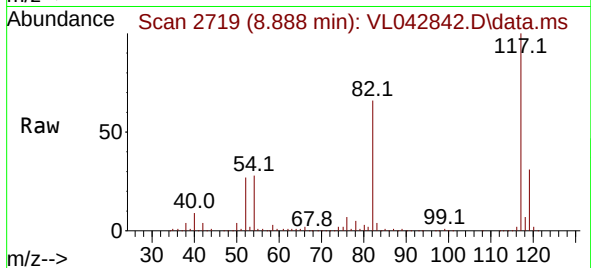
Tgt Ion:107 Resp: 209330  
Ion Ratio Lower Upper  
107 100  
109 90.6 72.5 108.7





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2719  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

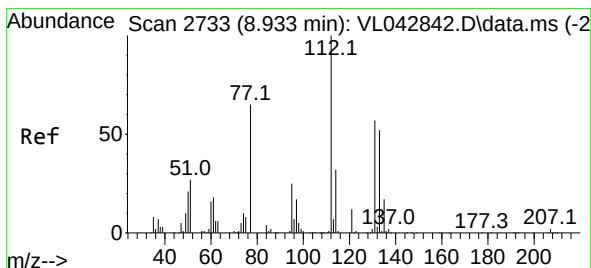
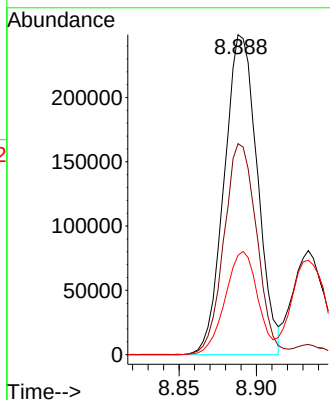
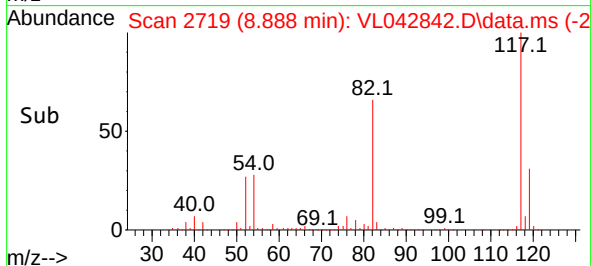
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion:117 Resp: 370372  
Ion Ratio Lower Upper  
117 100  
82 68.2 54.6 81.8  
119 32.4 25.9 38.9

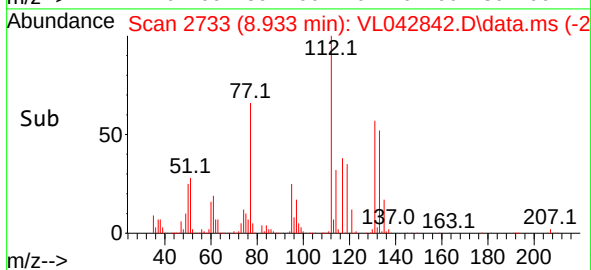
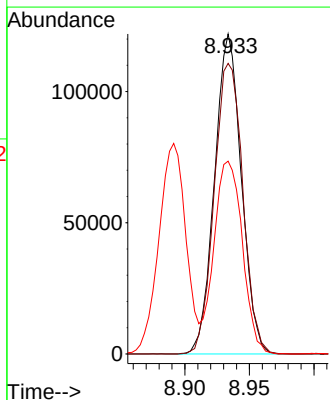
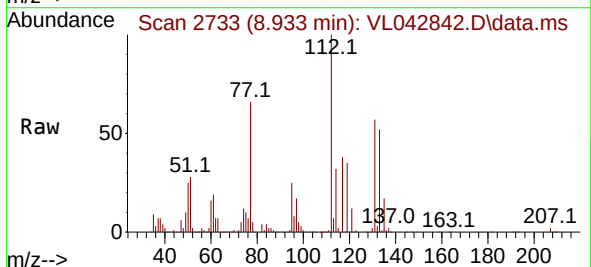
Manual Integrations  
APPROVED

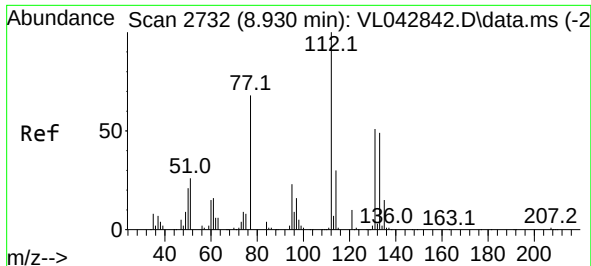
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.196 ppbv  
RT: 8.933 min Scan# 2733  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion:131 Resp: 176135  
Ion Ratio Lower Upper  
131 100  
133 96.7 77.4 116.0  
119 64.0 51.2 76.8





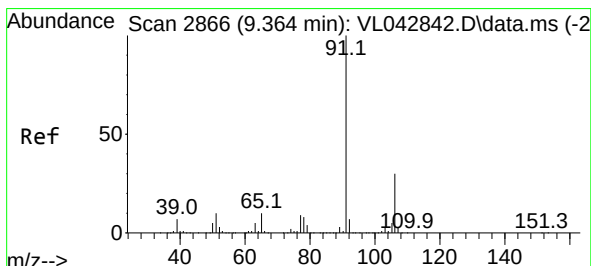
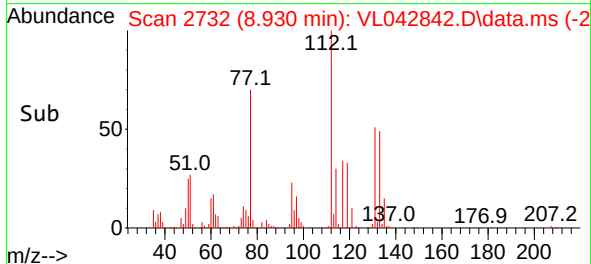
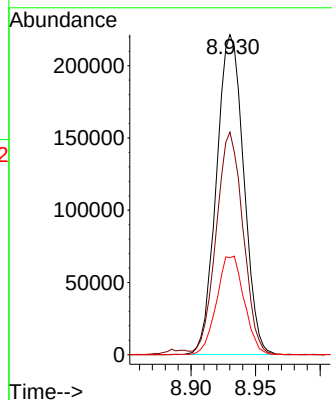
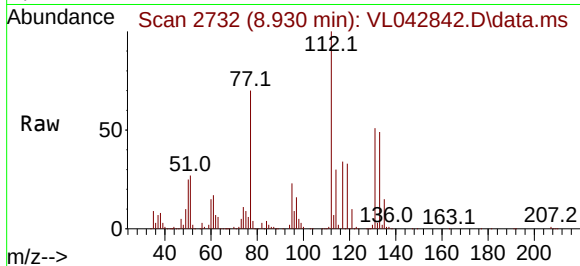
#57  
Chlorobenzene  
Concen: 9.237 ppbv  
RT: 8.930 min Scan# 2732  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 112 Resp: 32530  
Ion Ratio Lower Upper  
112 100  
77 69.4 55.5 83.3  
114 30.2 27.2 33.2

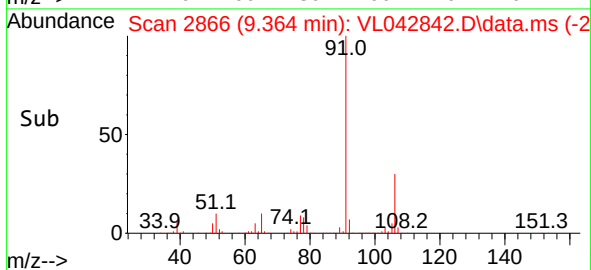
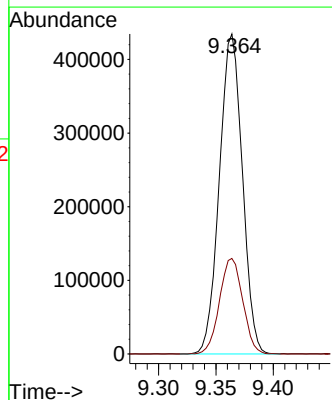
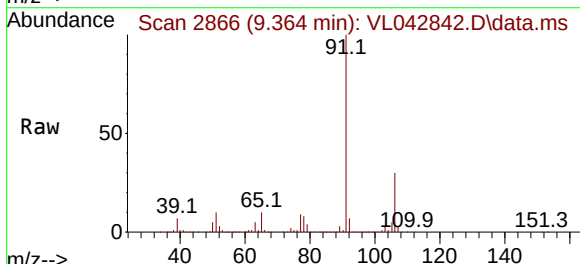
Manual Integrations  
APPROVED

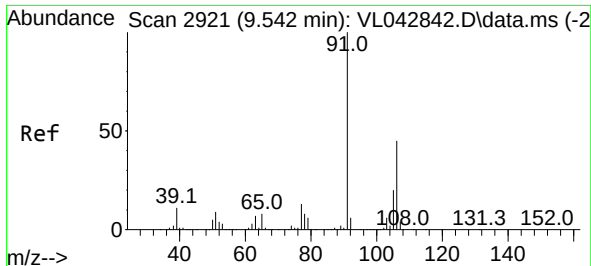
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#58  
Ethyl Benzene  
Concen: 9.268 ppbv  
RT: 9.364 min Scan# 2866  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 605785  
Ion Ratio Lower Upper  
91 100  
106 29.9 23.9 35.9





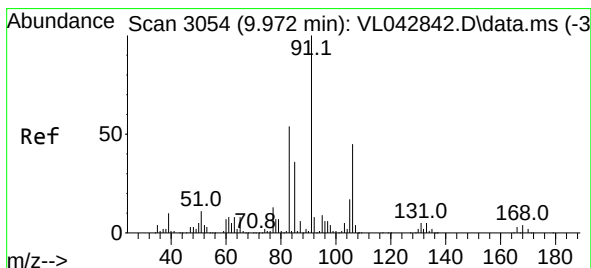
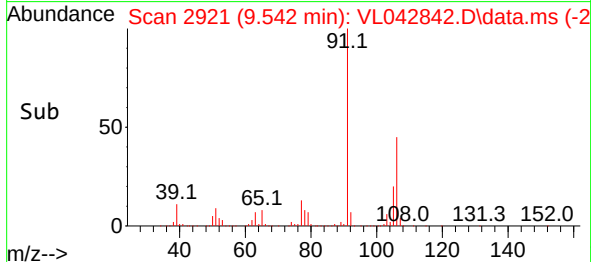
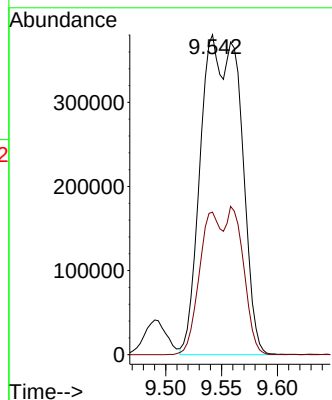
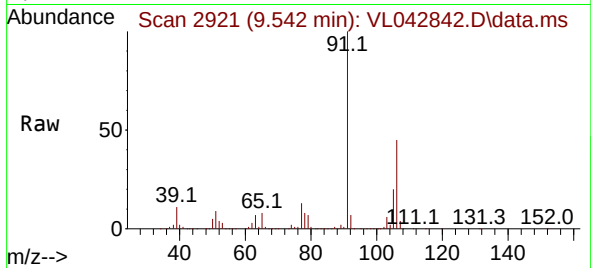
#59  
m/p-Xylene  
Concen: 18.524 ppbv m  
RT: 9.542 min Scan# 2921  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 91 Resp: 950548  
Ion Ratio Lower Upper  
91 100  
106 0.0 0.0 0.0

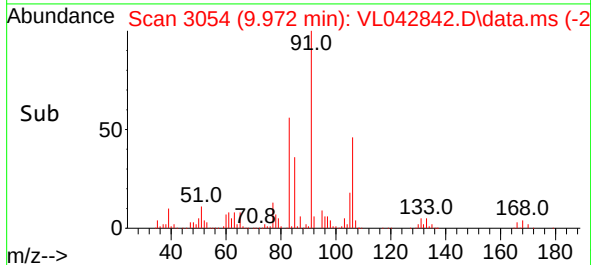
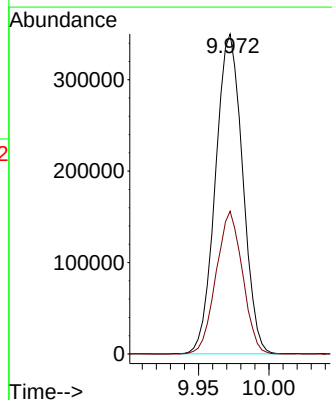
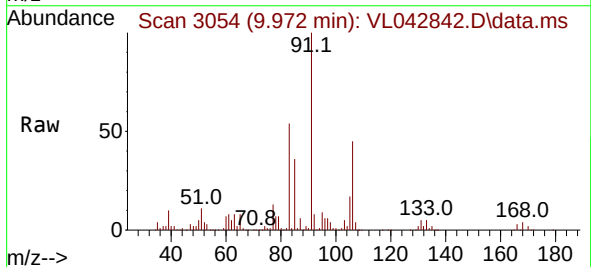
Manual Integrations  
APPROVED

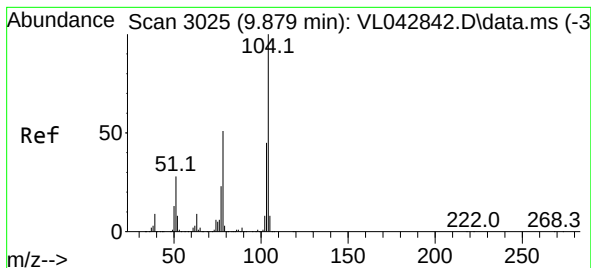
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#60  
o-Xylene  
Concen: 9.102 ppbv  
RT: 9.972 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 469073  
Ion Ratio Lower Upper  
91 100  
106 43.6 21.8 65.4





#61

Styrene

Concen: 9.362 ppbv

RT: 9.879 min Scan# 3025

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

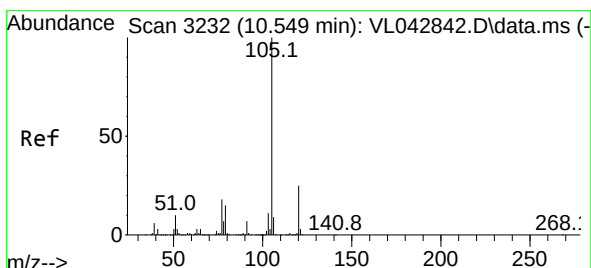
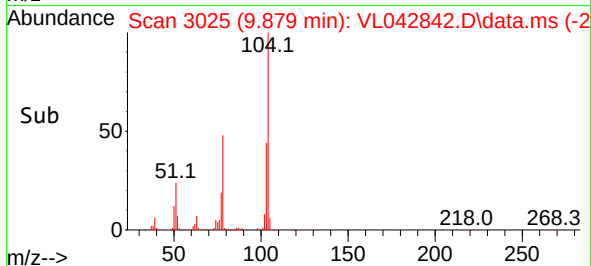
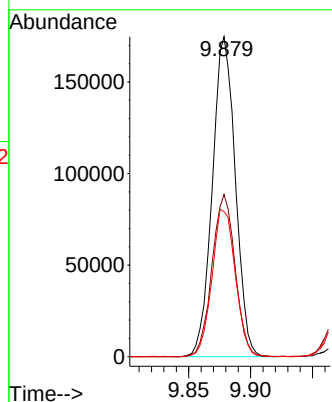
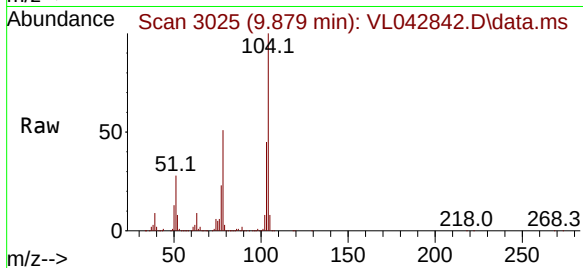
Tgt Ion:104 Resp: 226050

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 104 | 100   |       |       |
| 78  | 50.8  | 40.6  | 61.0  |
| 103 | 47.1  | 37.7  | 56.5  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#62

Isopropylbenzene

Concen: 9.108 ppbv

RT: 10.549 min Scan# 3232

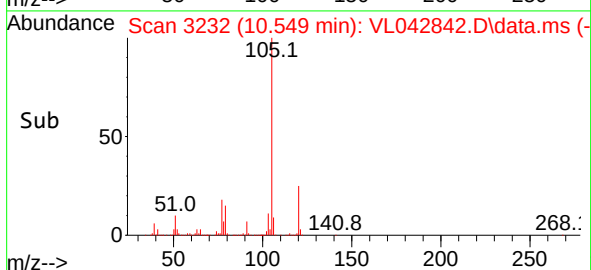
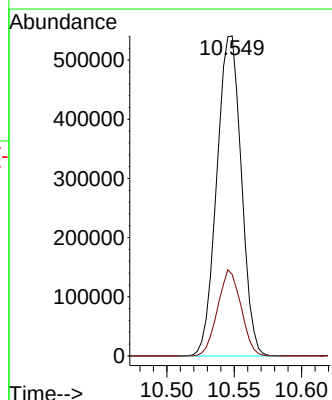
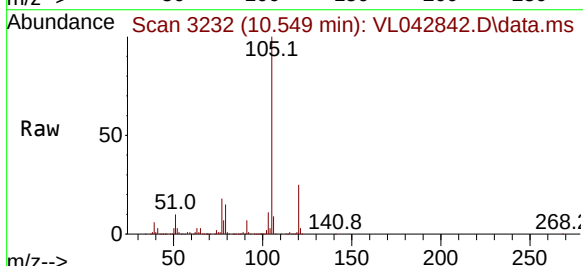
Delta R.T. 0.000 min

Lab File: VL042842.D

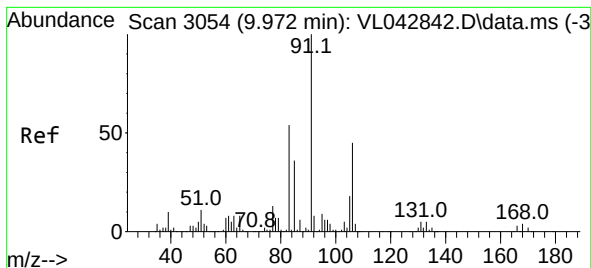
Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 685983

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 25.7  | 20.6  | 30.8  |







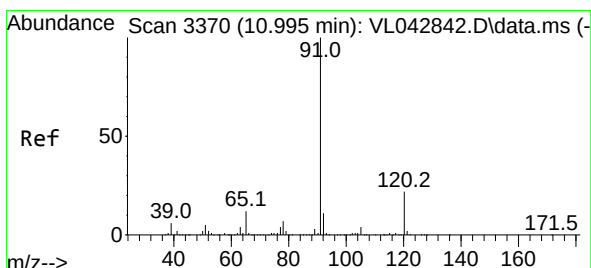
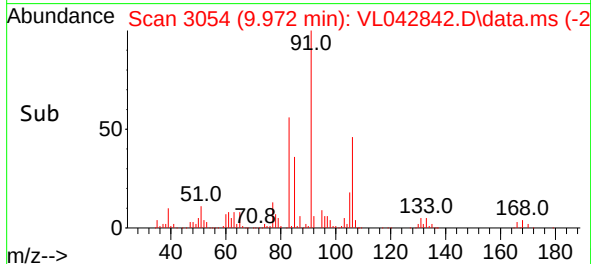
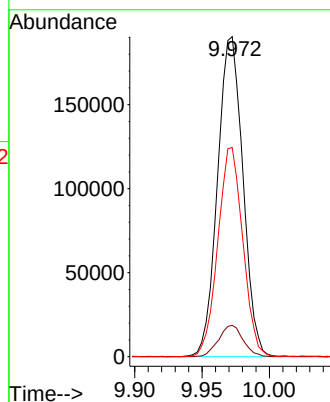
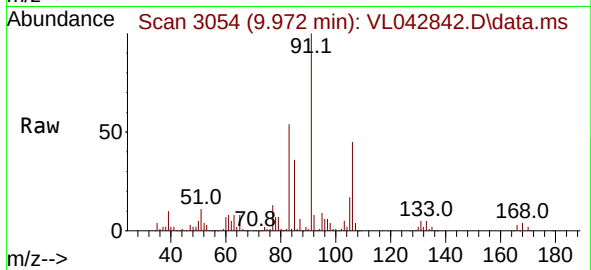
#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.870 ppbv  
RT: 9.972 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 83 Resp: 24962  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 64.5 32.3 96.8

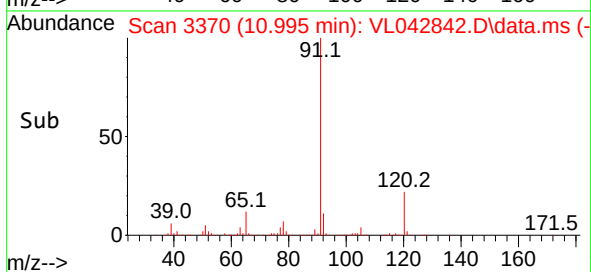
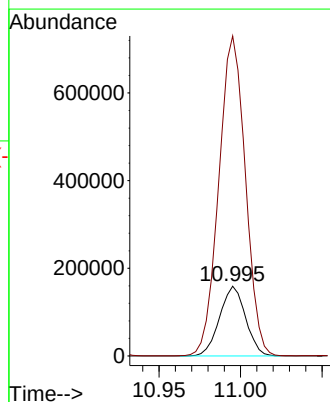
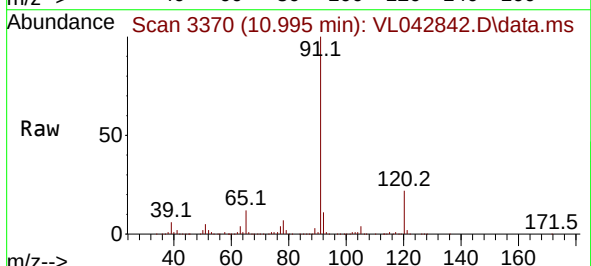
Manual Integrations  
APPROVED

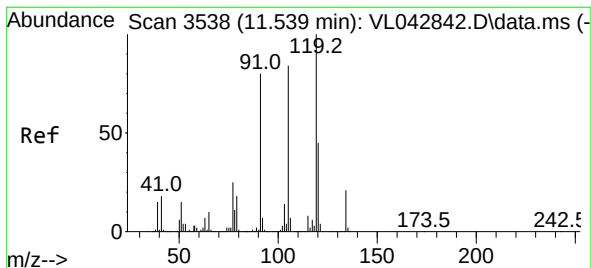
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#64  
n-propylbenzene  
Concen: 9.158 ppbv  
RT: 10.995 min Scan# 3370  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion:120 Resp: 175986  
Ion Ratio Lower Upper  
120 100  
91 469.7 375.8 563.6





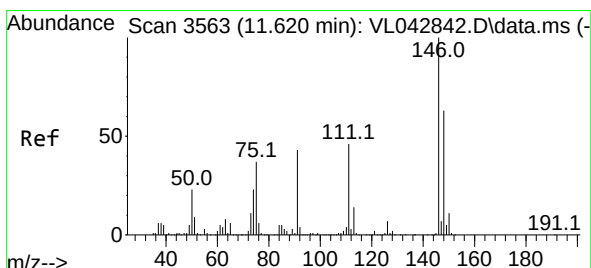
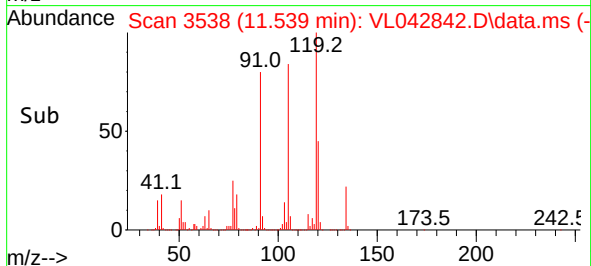
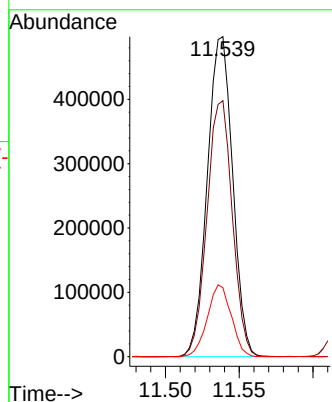
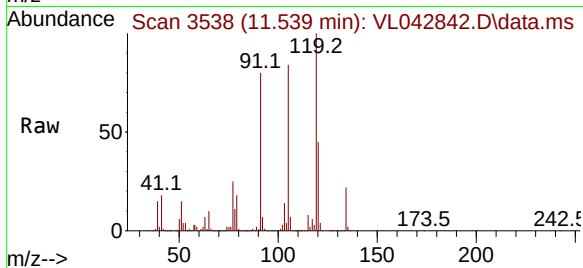
#65  
tert-Butylbenzene  
Concen: 8.951 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 119 Resp: 594314  
Ion Ratio Lower Upper  
119 100  
91 79.9 63.9 95.9  
134 21.2 17.0 25.4

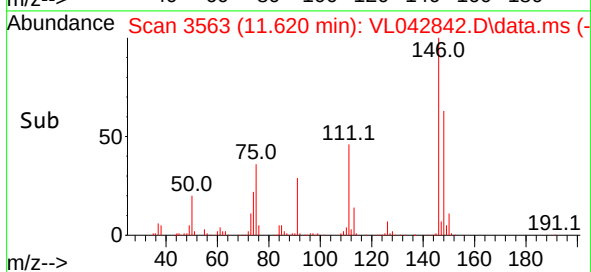
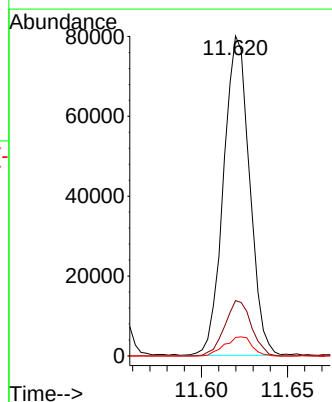
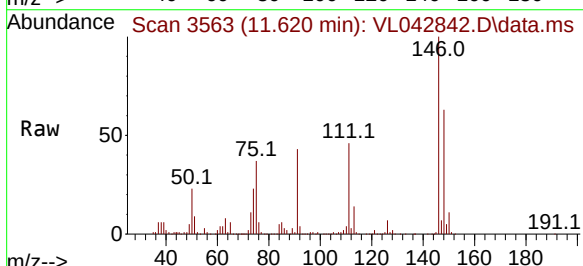
Manual Integrations  
APPROVED

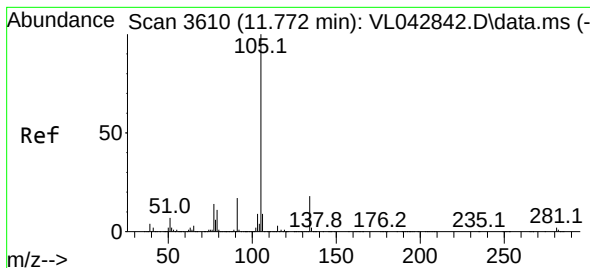
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#66  
Benzyl Chloride  
Concen: 9.985 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

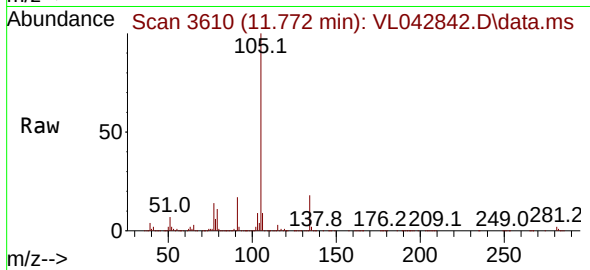
Tgt Ion: 91 Resp: 84156  
Ion Ratio Lower Upper  
91 100  
126 17.8 14.2 21.4  
128 6.3 5.0 7.6





#67  
 sec-Butylbenzene  
 Concen: 8.943 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

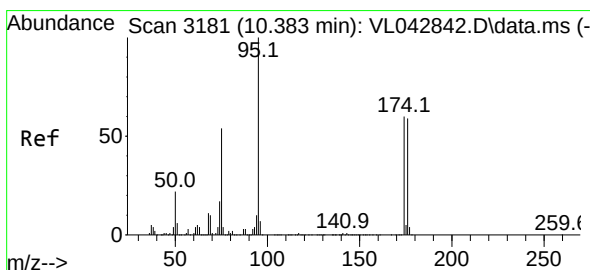
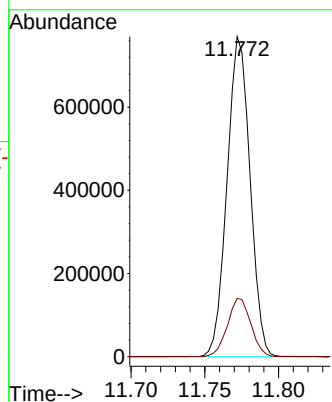
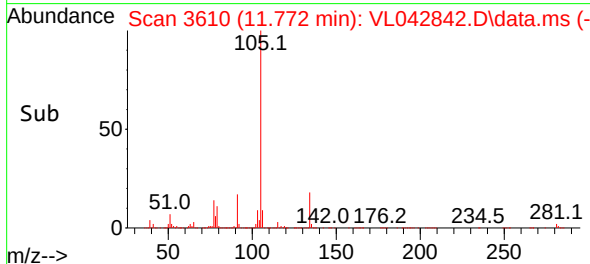
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



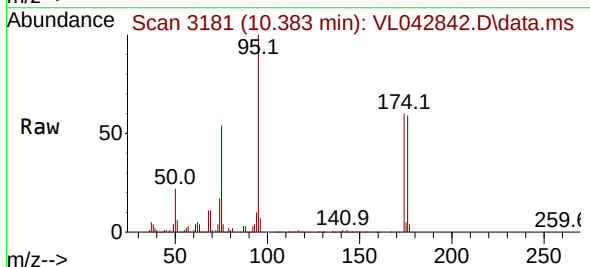
Tgt Ion:105 Resp: 833378  
 Ion Ratio Lower Upper  
 105 100  
 134 18.6 14.9 22.3

Manual Integrations  
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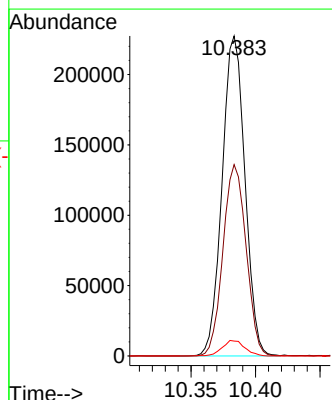
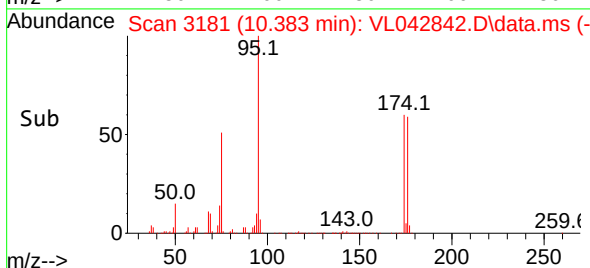
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

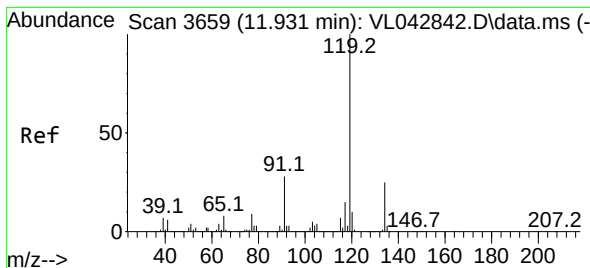


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.064 ppbv  
 RT: 10.383 min Scan# 3181  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30



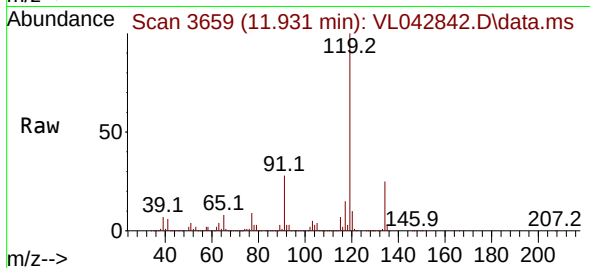
Tgt Ion: 95 Resp: 279557  
 Ion Ratio Lower Upper  
 95 100  
 174 60.5 48.4 72.6  
 175 4.8 3.8 5.8





#69  
p-Isopropyltoluene  
Concen: 8.820 ppbv  
RT: 11.931 min Scan# 3659  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

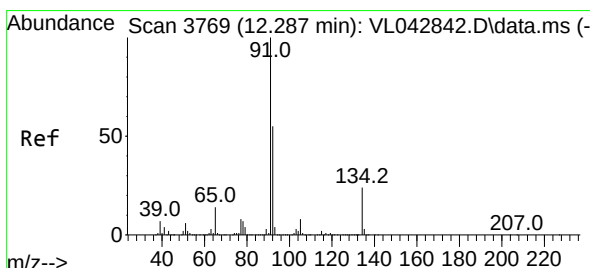
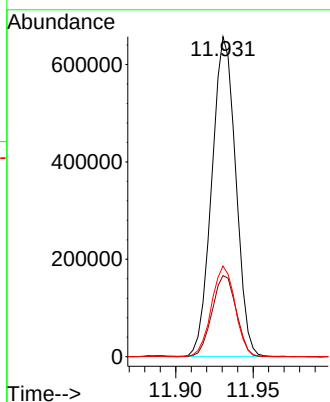
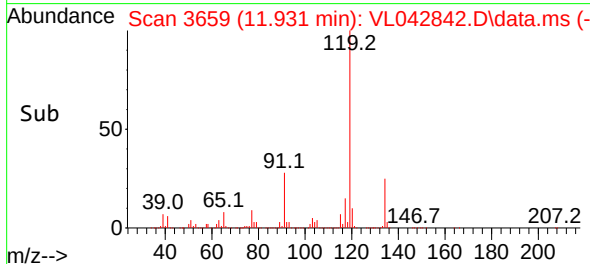
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



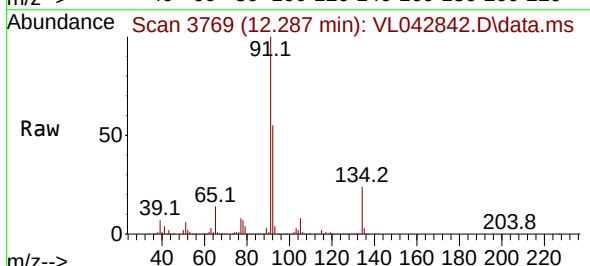
Tgt Ion: 119 Resp: 705700  
Ion Ratio Lower Upper  
119 100  
134 25.7 20.6 30.8  
91 28.3 22.6 34.0

Manual Integrations  
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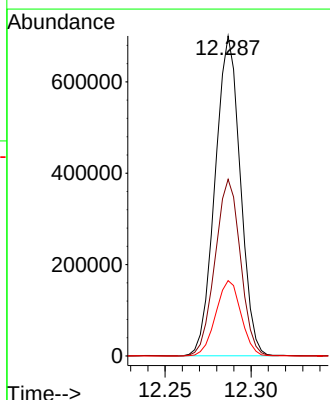
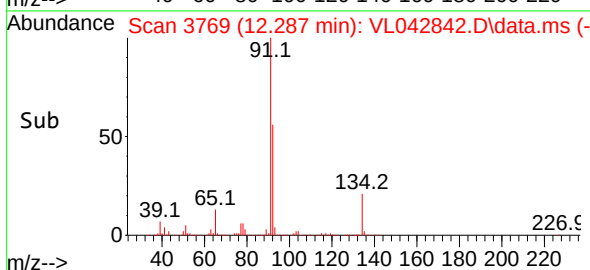
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

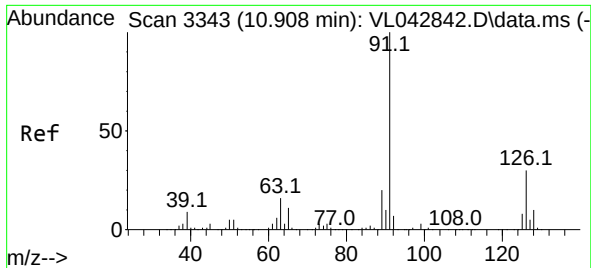


#70  
n-Butylbenzene  
Concen: 8.995 ppbv  
RT: 12.287 min Scan# 3769  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30



Tgt Ion: 91 Resp: 713713  
Ion Ratio Lower Upper  
91 100  
92 55.7 44.6 66.8  
134 23.7 19.0 28.4





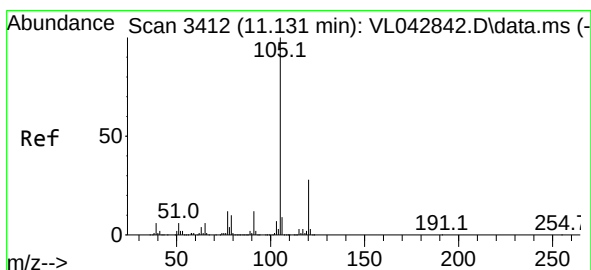
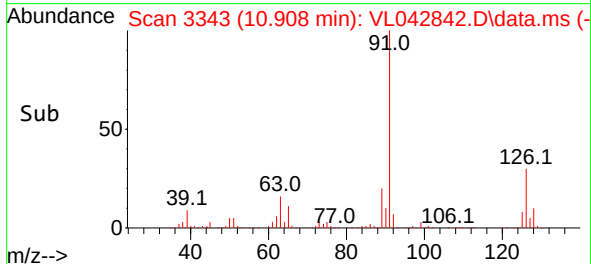
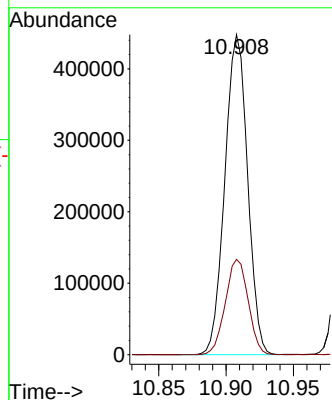
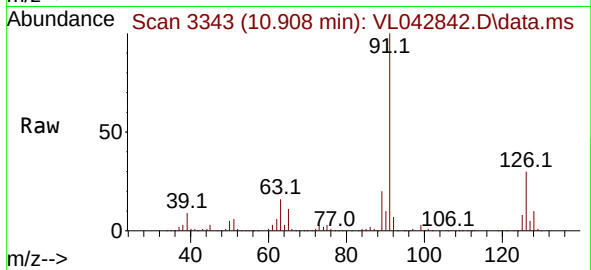
#71  
2-Chlorotoluene  
Concen: 8.981 ppbv  
RT: 10.908 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 91 Resp: 52523  
Ion Ratio Lower Upper  
91 100  
126 29.9 12.0 47.8

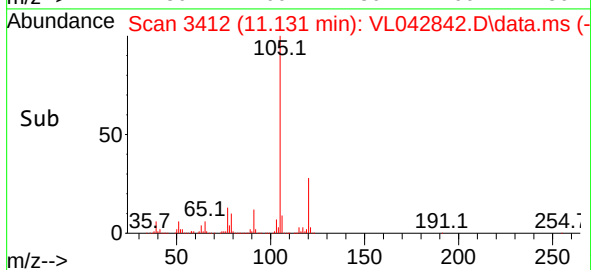
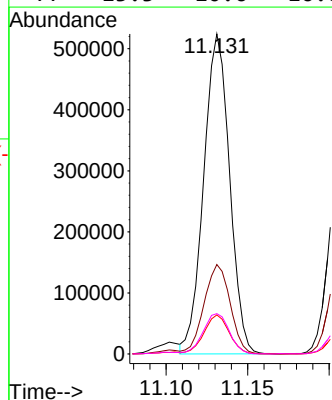
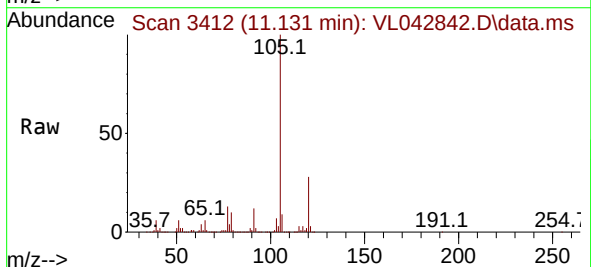
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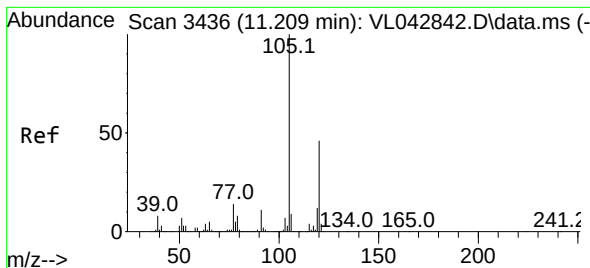
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#72  
4-Ethyltoluene  
Concen: 9.267 ppbv  
RT: 11.131 min Scan# 3412  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 578931  
Ion Ratio Lower Upper  
105 100  
120 29.3 23.4 35.2  
91 12.2 9.8 14.6  
77 13.3 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 9.012 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion:105 Resp: 478784

Ion Ratio Lower Upper

105 100

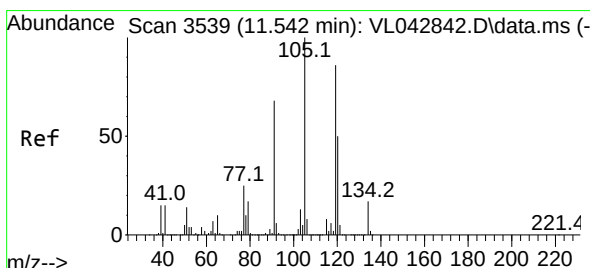
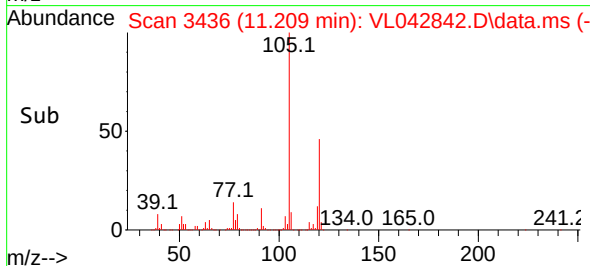
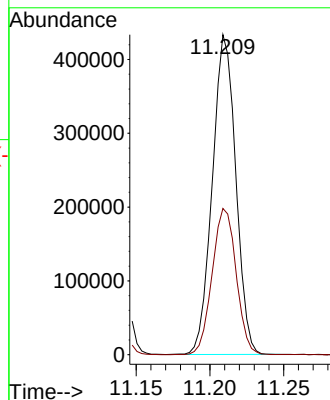
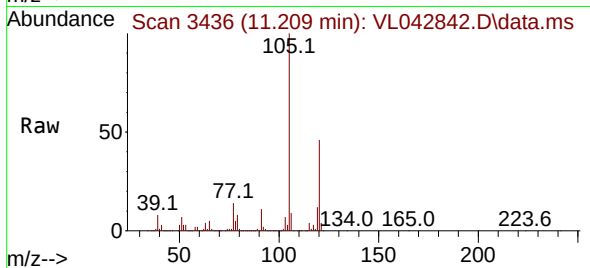
120 45.7 36.6 54.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.853 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 516253

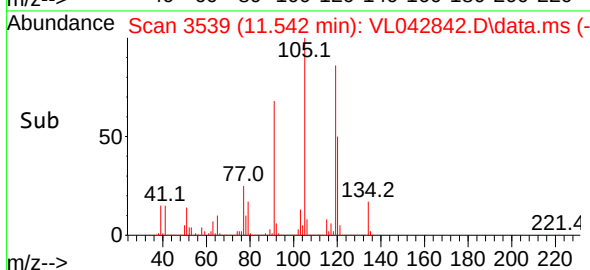
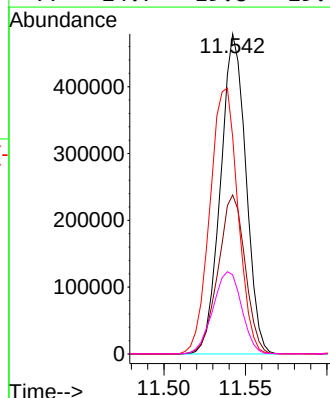
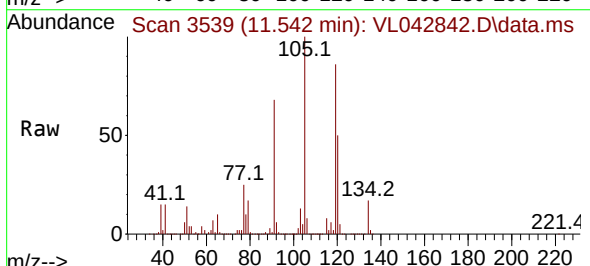
Ion Ratio Lower Upper

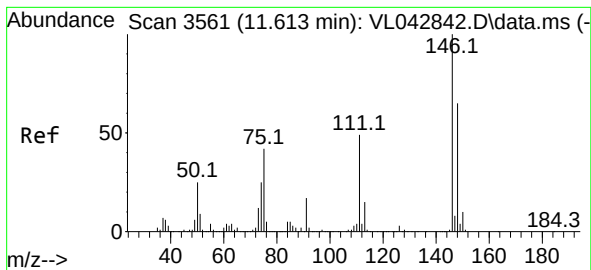
105 100

120 49.7 39.8 59.6

91 67.8 54.2 81.4

77 24.7 19.8 29.6





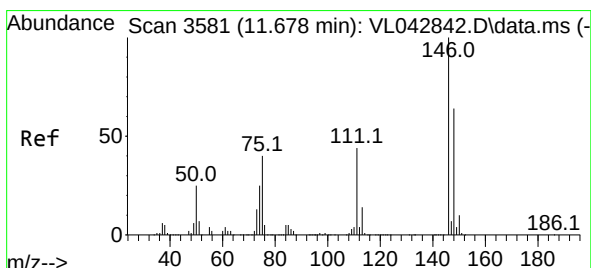
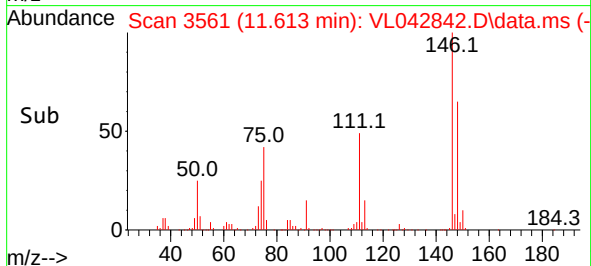
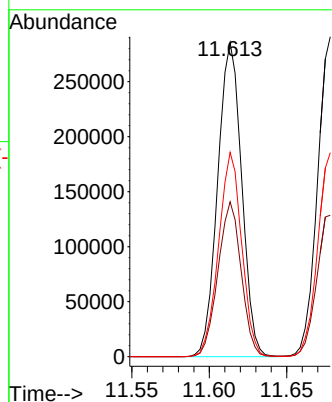
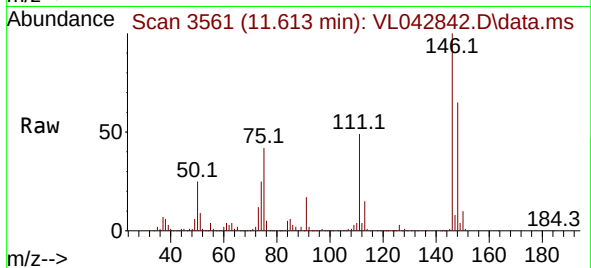
#75  
1,3-Dichlorobenzene  
Concen: 9.280 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

Tgt Ion:146 Resp: 307640  
Ion Ratio Lower Upper  
146 100  
111 47.8 23.9 71.7  
148 62.7 31.4 94.0

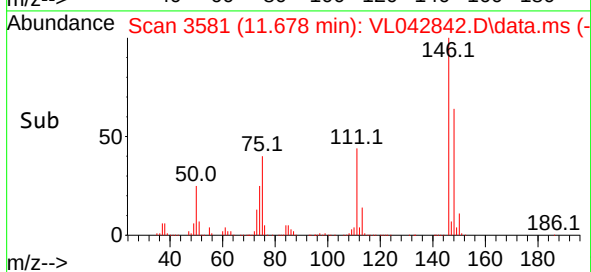
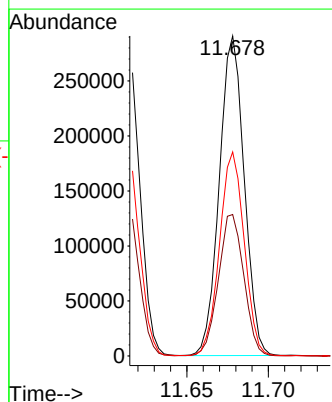
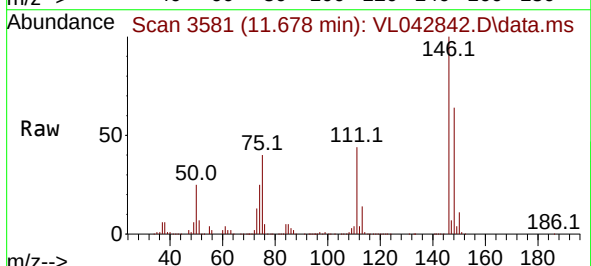
Manual Integrations  
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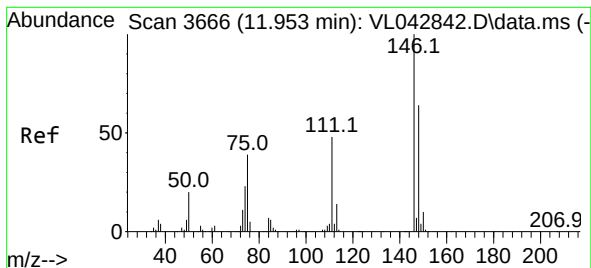
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#76  
1,4-Dichlorobenzene  
Concen: 9.203 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion:146 Resp: 308542  
Ion Ratio Lower Upper  
146 100  
111 45.4 22.7 68.1  
148 63.5 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.907 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

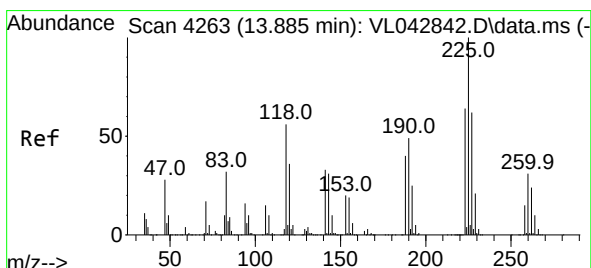
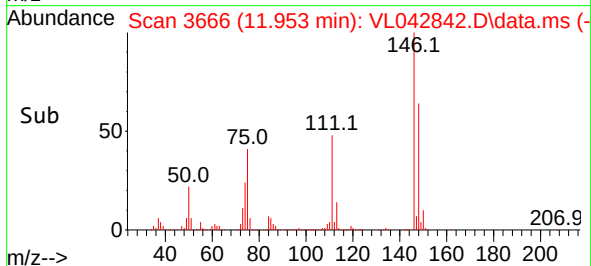
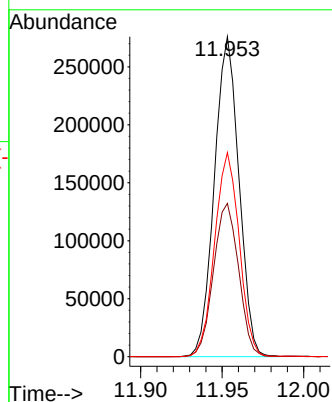
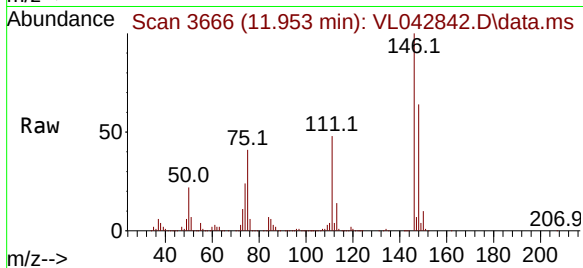
VSTDICCC010

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 289119 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 49.3  | 24.6  | 74.0   |
| 148       | 64.0  | 32.0  | 96.0   |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.968 ppbv

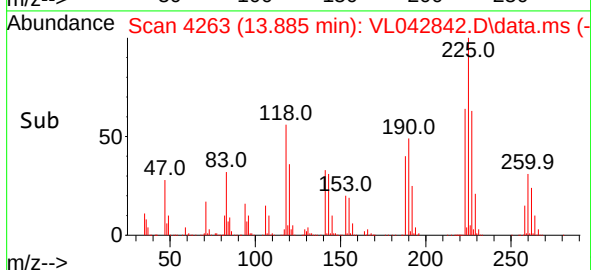
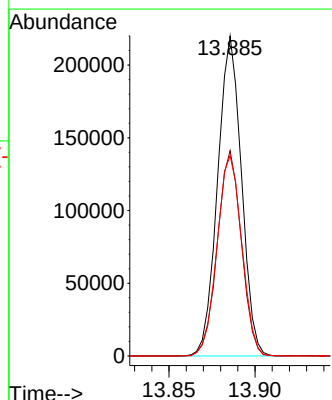
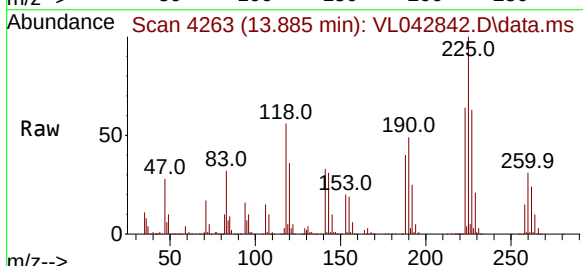
RT: 13.885 min Scan# 4263

Delta R.T. 0.000 min

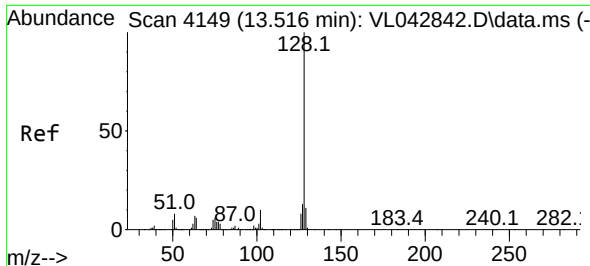
Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 211996 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 64.3  | 51.4  | 77.2   |
| 227       | 64.9  | 51.9  | 77.9   |

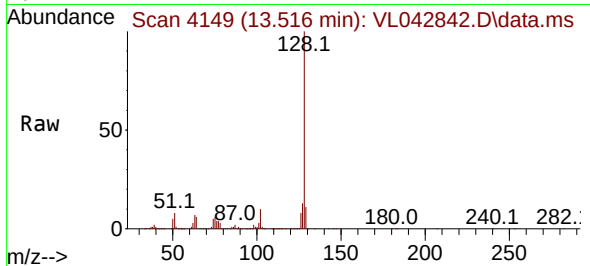






#79  
Naphthalene  
Concen: 9.335 ppbv  
RT: 13.516 min Scan# 4149  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

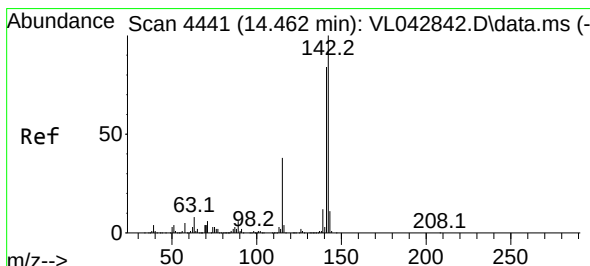
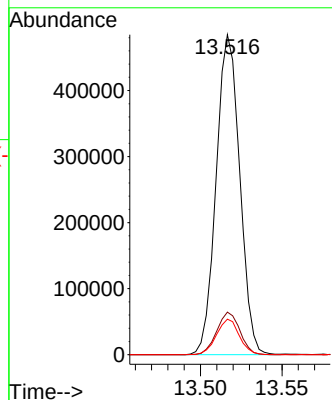
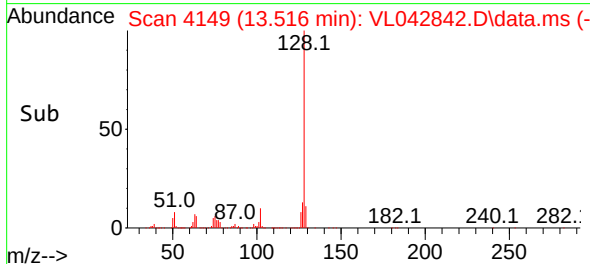
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010



Tgt Ion:128 Resp: 487174  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.6 16.0  
129 11.1 8.9 13.3

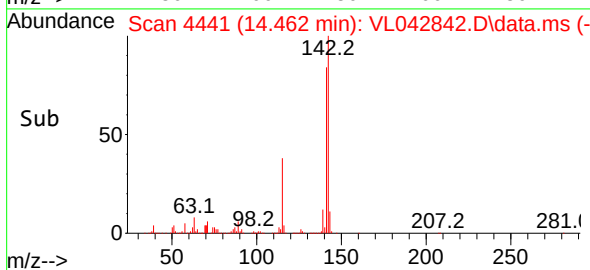
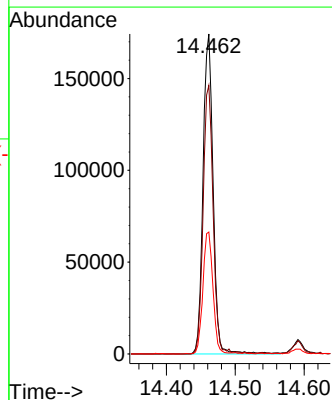
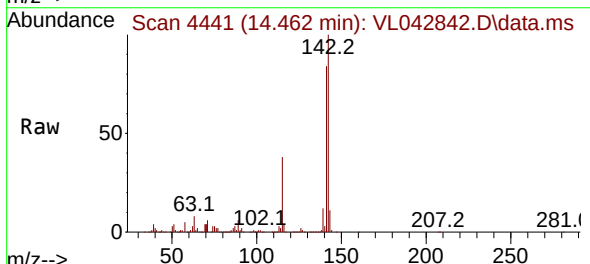
Manual Integrations  
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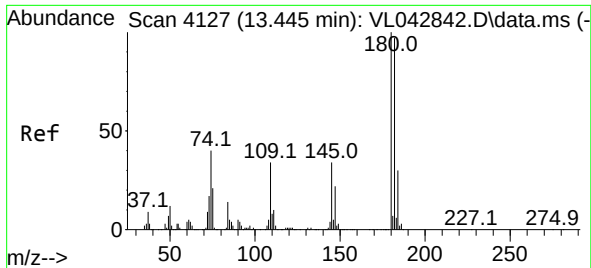
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#80  
Naphthalene,2-methyl-  
Concen: 9.000 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

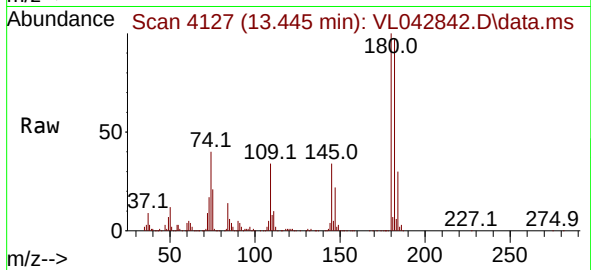
Tgt Ion:142 Resp: 176880  
Ion Ratio Lower Upper  
142 100  
141 83.8 67.0 100.6  
115 38.6 30.9 46.3





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.220 ppbv  
 RT: 13.445 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

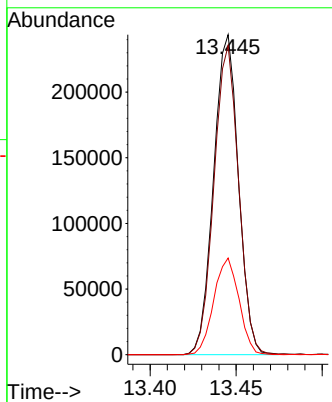
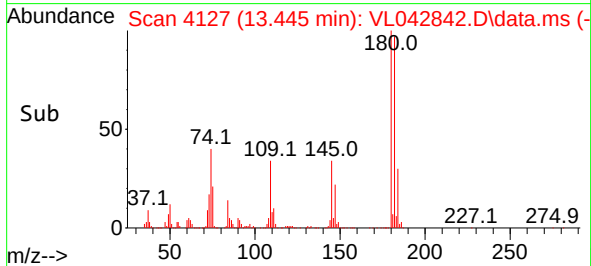
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 244998     |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.1  | 76.9 115.3 |
| 184         | 30.6  | 24.5 36.7  |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042843.D  
 Acq On : 13 Aug 2025 09:06  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 01:46:30 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025  
 Supervised By : Mahesh Dadoda 08/18/2025

| Compound                        | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|---------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards              |        |       |          |          |        |          |
| 1) Bromochloromethane           | 2.794  | 49    | 130555   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene         | 3.965  | 114   | 408144   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5            | 8.891  | 117   | 363830   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds     |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene     | 10.387 | 95    | 270774   | 9.923    | ppbv   | 0.00     |
| Spiked Amount                   | 10.000 | Range | 65 - 135 | Recovery | =      | 99.200%  |
| Target Compounds                |        |       |          |          |        |          |
|                                 |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane      | 1.502  | 85    | 39443    | 2.061    | ppbv   | 99       |
| 3) Chlorodifluoromethane        | 1.480  | 51    | 44759    | 2.114    | ppbv   | 96       |
| 4) Chloromethane                | 1.535  | 50    | 15826    | 2.050    | ppbv   | 99       |
| 5) Vinyl Chloride               | 1.583  | 62    | 14358    | 1.888    | ppbv   | 97       |
| 6) Bromomethane                 | 1.670  | 94    | 6248     | 2.055    | ppbv   | 97       |
| 7) Chloroethane                 | 1.706  | 64    | 5717     | 1.925    | ppbv   | 94       |
| 8) Dichlorotetrafluoroethane    | 1.557  | 85    | 32496    | 2.075    | ppbv   | 98       |
| 9) Propene                      | 1.486  | 41    | 18678    | 2.045    | ppbv   | 89       |
| 10) Heptane                     | 4.991  | 43    | 50062    | 2.050    | ppbv   | 97       |
| 11) Trichlorofluoromethane      | 1.881  | 101   | 38308    | 2.029    | ppbv   | 99       |
| 12) 1,1,2-Trichlorotrifluoro... | 2.146  | 101   | 31052    | 2.064    | ppbv   | 99       |
| 13) Ethanol                     | 1.725  | 45    | 1817m    | 2.008    | ppbv   |          |
| 14) Bromoethene                 | 1.784  | 108   | 11376    | 2.089    | ppbv   | 96       |
| 15) Acetone                     | 1.839  | 43    | 38531    | 2.231    | ppbv   | 96       |
| 16) 1,3-Butadiene               | 1.612  | 39    | 15122    | 1.932    | ppbv   | 98       |
| 17) tert-Butyl alcohol          | 2.046  | 59    | 40652    | 1.985    | ppbv   | 97       |
| 18) 1,1-Dichloroethene          | 2.039  | 96    | 13883    | 2.099    | ppbv   | 95       |
| 19) Isopropyl Alcohol           | 1.891  | 45    | 20866    | 2.023    | ppbv # | 39       |
| 20) Methylene Chloride          | 2.065  | 84    | 14204    | 1.963    | ppbv # | 92       |
| 21) Allyl Chloride              | 2.101  | 41    | 24662    | 2.021    | ppbv   | 96       |
| 22) trans-1,2-Dichloroethene    | 2.344  | 96    | 15773    | 2.132    | ppbv   | 96       |
| 23) Vinyl Acetate               | 2.467  | 43    | 48269    | 2.125    | ppbv # | 98       |
| 24) 1,1-Dichloroethane          | 2.415  | 63    | 30931    | 2.024    | ppbv   | 98       |
| 25) Ethyl Acetate               | 2.842  | 43    | 86804    | 2.077    | ppbv   | 98       |
| 26) Hexane                      | 2.832  | 57    | 39735    | 2.060    | ppbv   | 94       |
| 27) Carbon Disulfide            | 2.156  | 76    | 39466    | 2.102    | ppbv # | 15       |
| 28) Methyl tert-Butyl Ether     | 2.444  | 73    | 21341    | 2.169    | ppbv   | 96       |
| 29) Chloroform                  | 2.855  | 83    | 56553    | 2.053    | ppbv   | 95       |
| 30) Cyclohexane                 | 3.868  | 84    | 34992    | 2.069    | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene      | 2.726  | 61    | 39783    | 2.062    | ppbv   | 95       |
| 32) 1,1,1-Trichloroethane       | 3.376  | 97    | 57837    | 1.983    | ppbv   | 100      |
| 34) 2-Butanone                  | 2.564  | 43    | 57172    | 2.075    | ppbv   | 98       |
| 35) Carbon Tetrachloride        | 3.771  | 117   | 56459    | 2.007    | ppbv   | 97       |
| 36) Benzene                     | 3.664  | 78    | 80781    | 2.067    | ppbv   | 98       |
| 37) 1,2-Dichloroethane          | 3.227  | 62    | 41034    | 2.010    | ppbv   | 97       |
| 38) Trichloroethene             | 4.561  | 130   | 36990    | 2.072    | ppbv # | 86       |
| 39) 1,2-Dichloropropane         | 4.328  | 63    | 29059    | 2.036    | ppbv   | 98       |
| 40) 1,4-Dioxane                 | 4.606  | 88    | 13510m   | 2.022    | ppbv   |          |
| 41) Tetrahydrofuran             | 3.062  | 42    | 31994    | 2.082    | ppbv   | 97       |
| 42) Bromodichloromethane        | 4.503  | 83    | 63436    | 2.085    | ppbv   | 97       |
| 43) Methyl Methacrylate         | 4.888  | 69    | 33851m   | 2.111    | ppbv   |          |
| 44) 2,2,4-Trimethylpentane      | 4.655  | 57    | 136794   | 2.085    | ppbv   | 98       |
| 45) t-1,3-Dichloropropene       | 6.428  | 75    | 37248    | 2.048    | ppbv   | 90       |

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 Data File : VL042843.D  
 Acq On : 13 Aug 2025 09:06  
 Operator : SY/MD  
 Sample : VSTDIC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

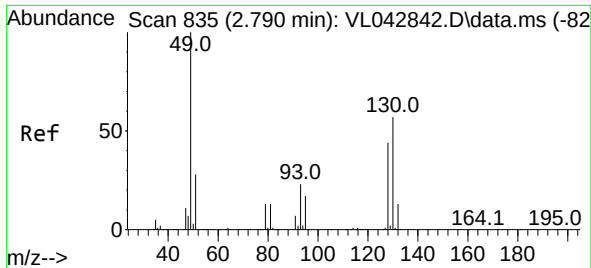
Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025  
 Supervised By : Mahesh Dadoda 08/18/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 47201m   | 2.067 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.593  | 97   | 31477m   | 2.083 | ppbv   |          |
| 48) Dibromochloromethane      | 7.399  | 129  | 51620    | 2.109 | ppbv   | 100      |
| 49) Bromoform                 | 9.493  | 173  | 43662    | 2.163 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.768  | 43   | 77225    | 2.066 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.451  | 43   | 61210    | 2.088 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.234  | 164  | 28166    | 1.990 | ppbv   | 92       |
| 53) Toluene                   | 6.946  | 91   | 94690    | 2.036 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 45071    | 2.039 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.933  | 131  | 40090    | 2.131 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.933  | 112  | 72296    | 2.090 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.364  | 91   | 133719   | 2.083 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.558  | 91   | 211704m  | 4.200 | ppbv   |          |
| 60) o-Xylene                  | 9.972  | 91   | 105125   | 2.077 | ppbv   | 100      |
| 61) Styrene                   | 9.879  | 104  | 48027    | 2.025 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.545 | 105  | 155223   | 2.098 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 56139    | 2.031 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.995 | 120  | 39922    | 2.115 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 139019   | 2.132 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.623 | 91   | 17893    | 2.161 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 196899   | 2.151 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 169429   | 2.156 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.287 | 91   | 169768   | 2.178 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 119382   | 2.078 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 129786   | 2.115 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 110043   | 2.109 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 123554   | 2.157 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 70330    | 2.160 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 71160    | 2.161 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 68944    | 2.162 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 58509    | 2.239 | ppbv   | 100      |
| 79) Naphthalene               | 13.517 | 128  | 127025   | 2.478 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 51541    | 2.670 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 62216    | 2.384 | ppbv   | 98       |

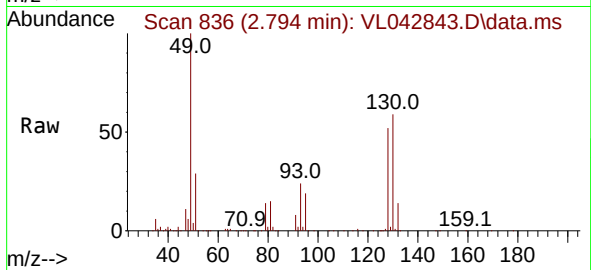
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.794 min Scan# 81  
Delta R.T. 0.004 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

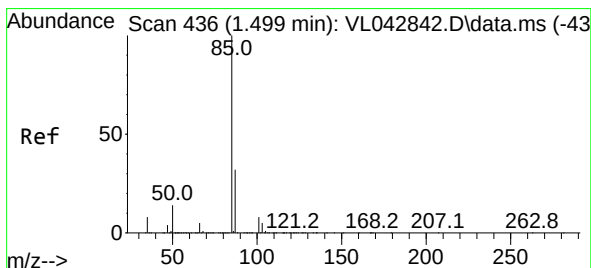
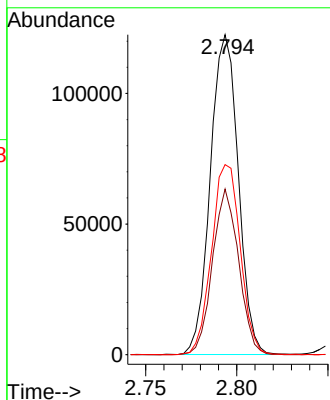
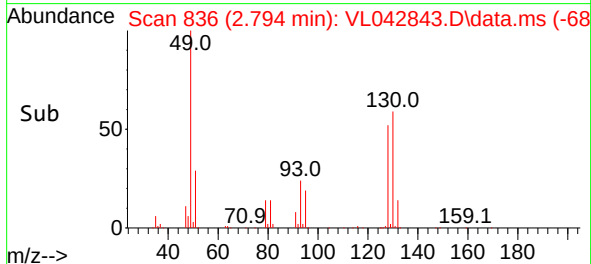
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



Tgt Ion: 49 Resp: 13055  
Ion Ratio Lower Upper  
49 100  
128 48.7 23.7 71.1  
130 61.3 30.6 91.6

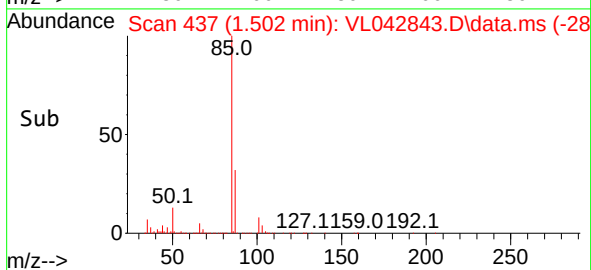
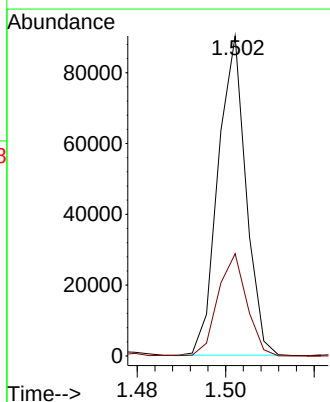
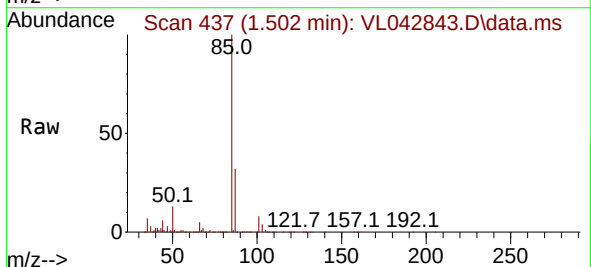
Manual Integrations  
APPROVED

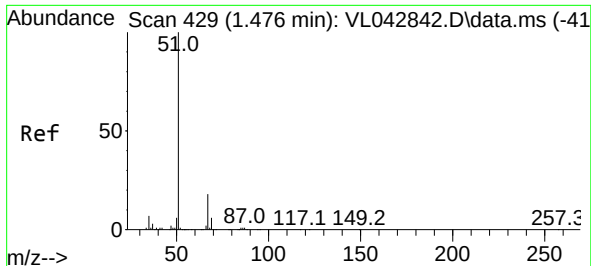
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#2  
Dichlorodifluoromethane  
Concen: 2.061 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

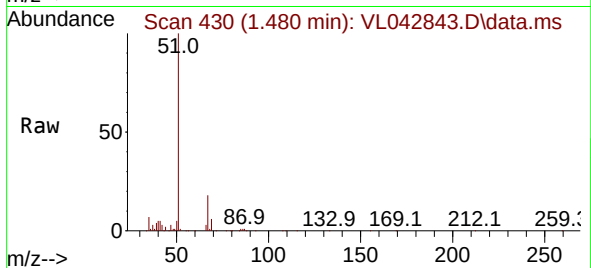
Tgt Ion: 85 Resp: 39443  
Ion Ratio Lower Upper  
85 100  
87 32.0 25.3 37.9





#3  
Chlorodifluoromethane  
Concen: 2.114 ppbv  
RT: 1.480 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

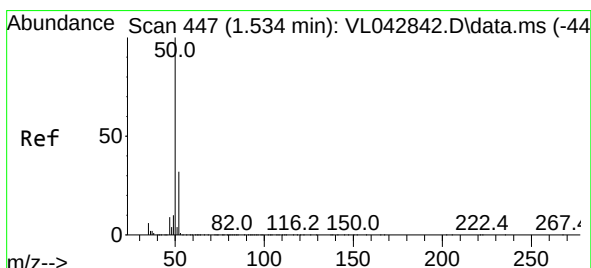
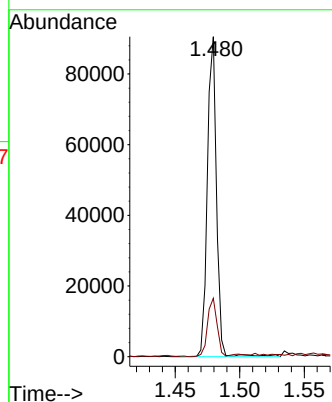
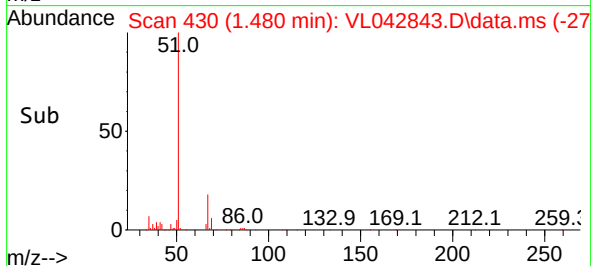
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ClientSampleId :  
VSTDICC002



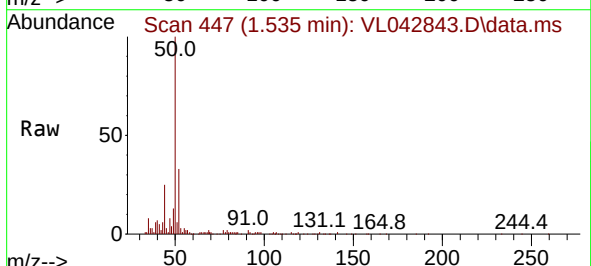
Tgt Ion: 51 Resp: 44759  
Ion Ratio Lower Upper  
51 100  
67 20.3 14.9 22.3

Manual Integrations  
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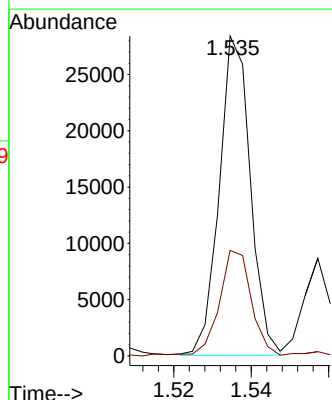
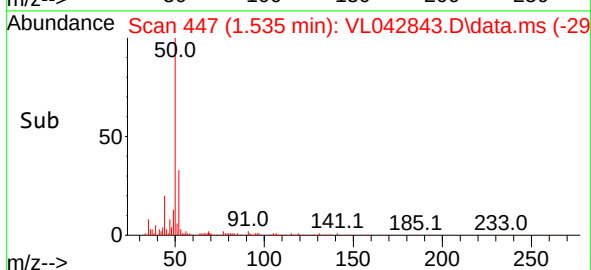
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

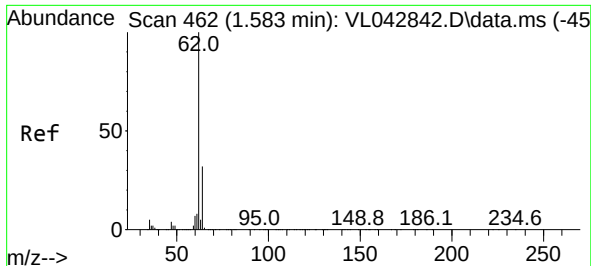


#4  
Chloromethane  
Concen: 2.050 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



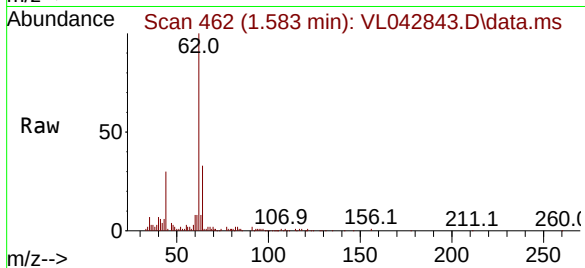
Tgt Ion: 50 Resp: 15826  
Ion Ratio Lower Upper  
50 100  
52 33.0 25.9 38.9





#5  
 Vinyl Chloride  
 Concen: 1.888 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

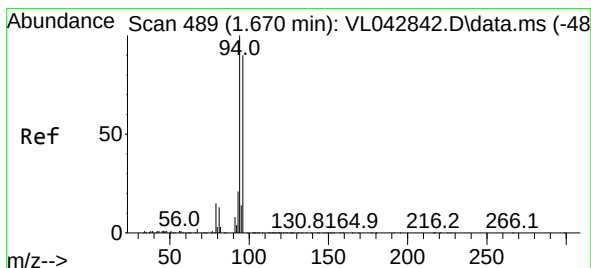
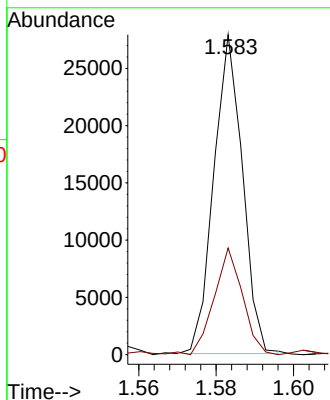
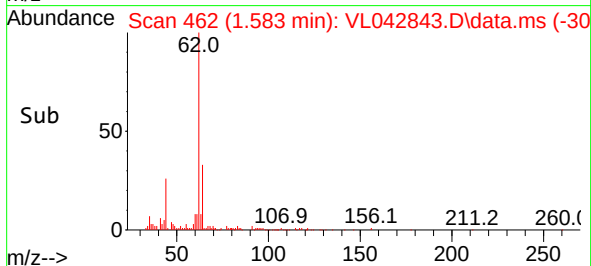
Instrument :  
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 ClientSampleId :  
 VSTDICC002



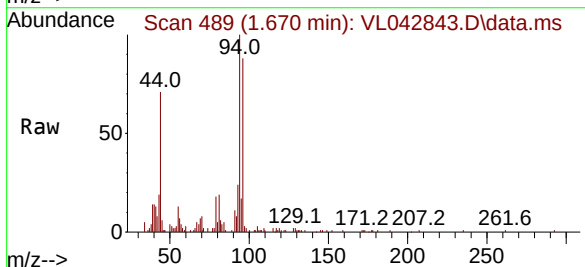
Tgt Ion: 62 Resp: 14358  
 Ion Ratio Lower Upper  
 62 100  
 64 33.5 25.4 38.2

Manual Integrations  
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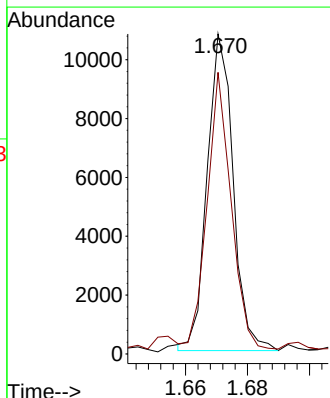
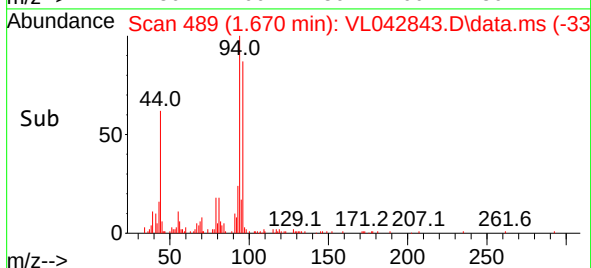
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



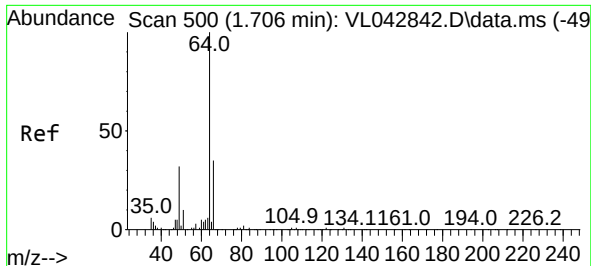
#6  
 Bromomethane  
 Concen: 2.055 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06



Tgt Ion: 94 Resp: 6248  
 Ion Ratio Lower Upper  
 94 100  
 96 87.4 72.1 108.1

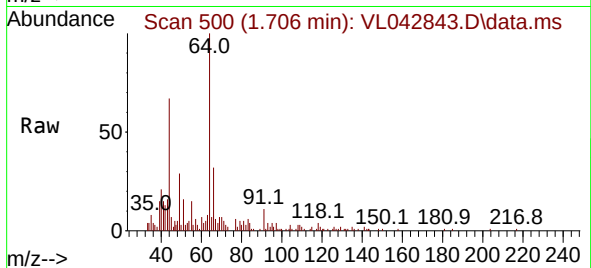






#7  
Chloroethane  
Concen: 1.925 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

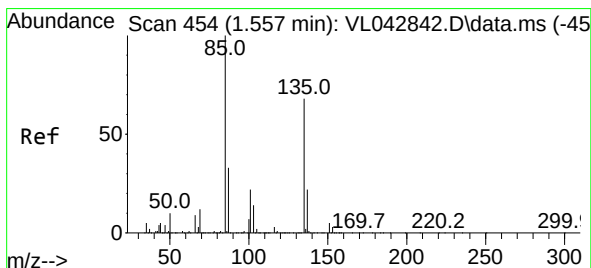
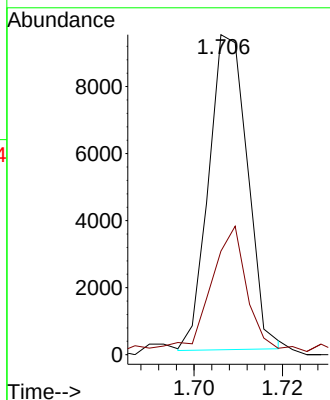
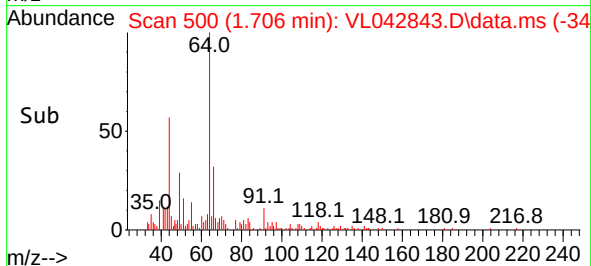
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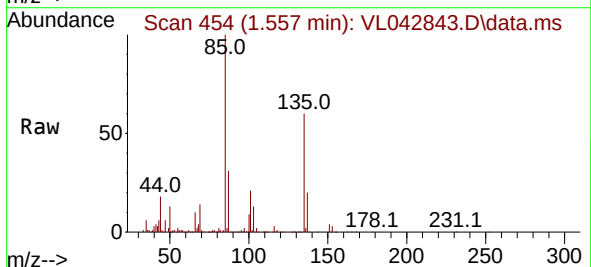
Tgt Ion: 64 Resp: 571  
Ion Ratio Lower Upper  
64 100  
66 32.3 28.6 42.8

Manual Integrations  
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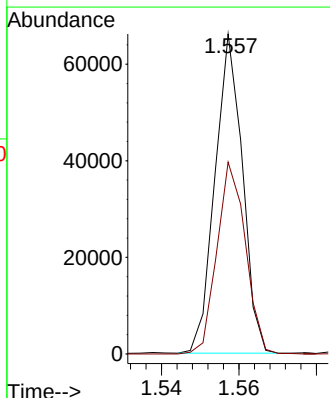
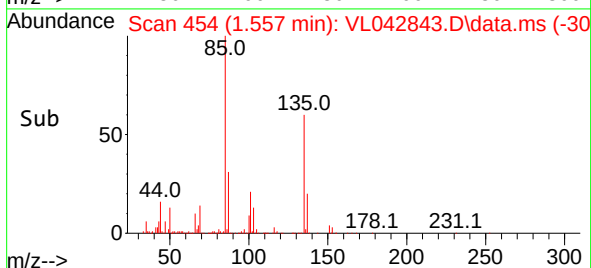
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

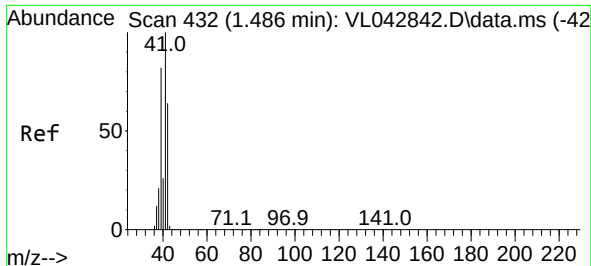


#8  
Dichlorotetrafluoroethane  
Concen: 2.075 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



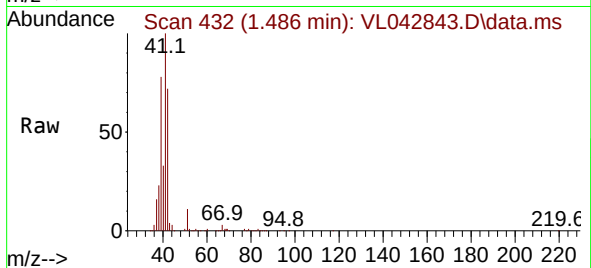
Tgt Ion: 85 Resp: 32496  
Ion Ratio Lower Upper  
85 100  
135 62.7 51.2 76.8





#9  
 Propene  
 Concen: 2.045 ppbv  
 RT: 1.486 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

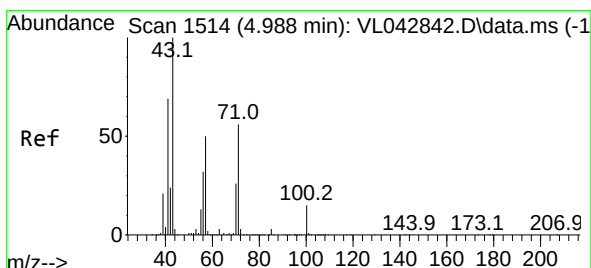
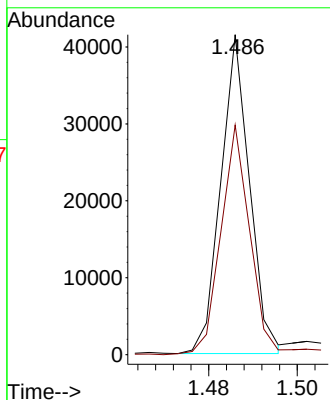
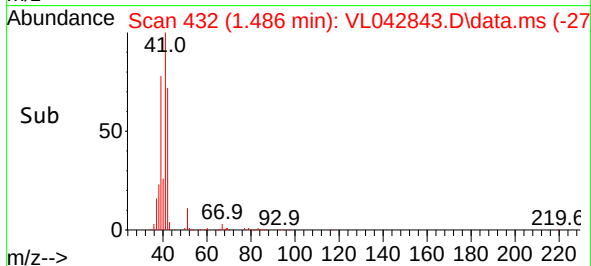
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 ClientSampleId :  
 VSTDICC002



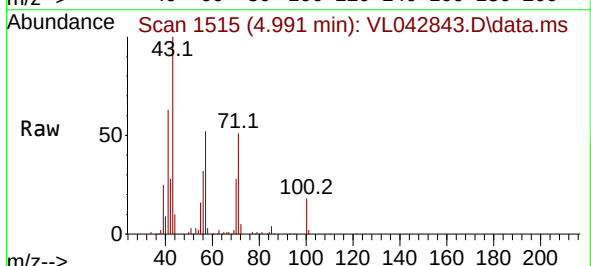
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 Ion Ratio Lower Upper  
 41 100  
 42 74.8 53.0 79.4

Manual Integrations  
 APPROVED

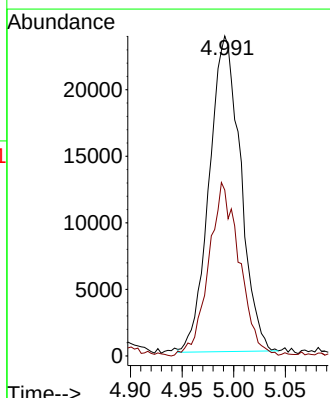
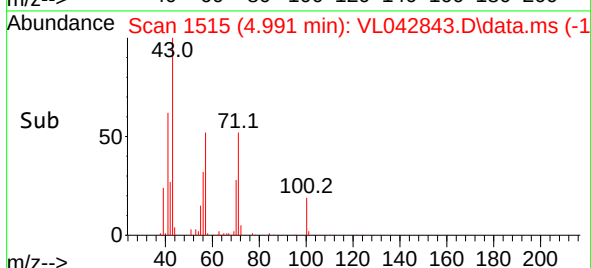
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

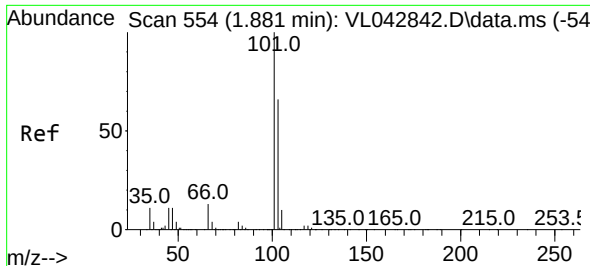


#10  
 Heptane  
 Concen: 2.050 ppbv  
 RT: 4.991 min Scan# 1515  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06



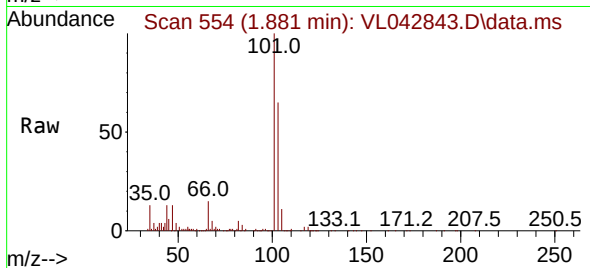
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 Ion Ratio Lower Upper  
 43 100  
 57 54.1 41.4 62.0





#11  
Trichlorofluoromethane  
Concen: 2.029 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

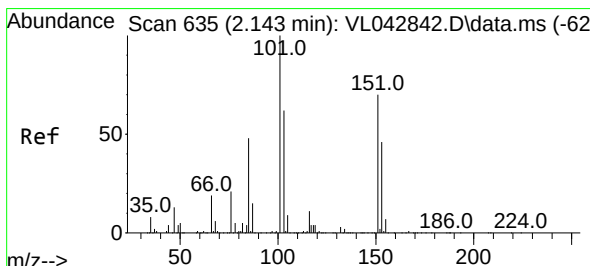
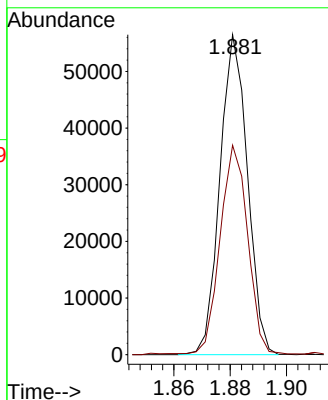
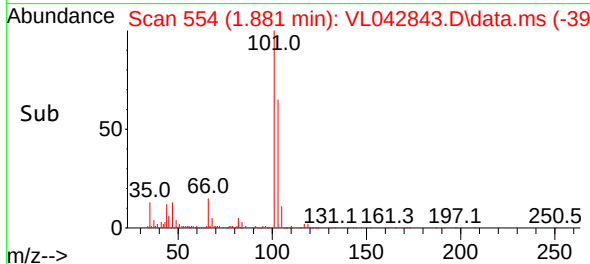
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



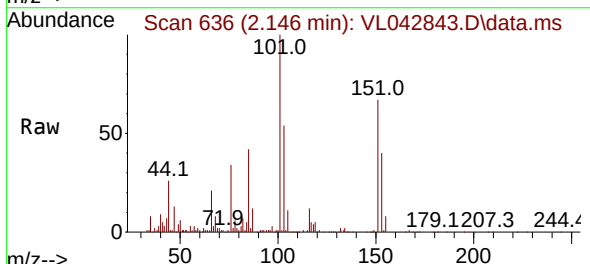
Tgt Ion:101 Resp: 38308  
Ion Ratio Lower Upper  
101 100  
103 65.1 52.5 78.7

Manual Integrations  
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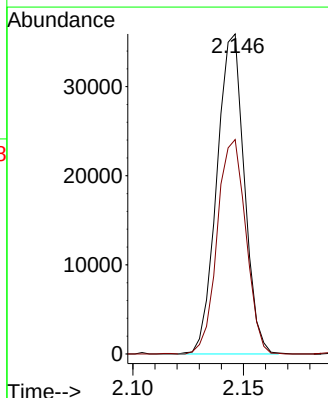
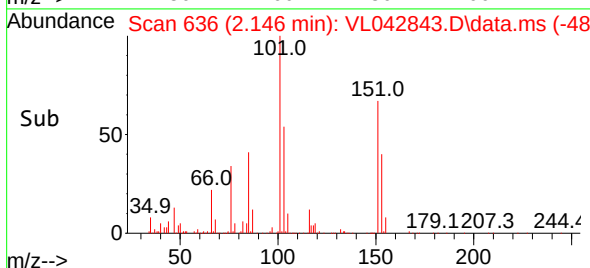
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

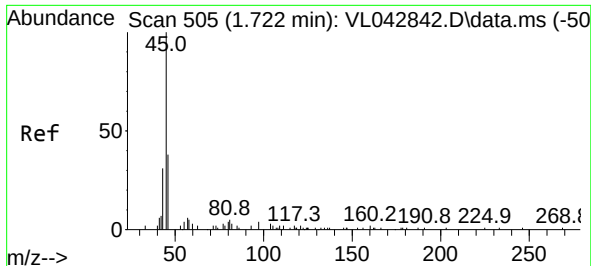


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.064 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



Tgt Ion:101 Resp: 31052  
Ion Ratio Lower Upper  
101 100  
151 69.7 56.4 84.6





#13

Ethanol

Concen: 2.008 ppbv

RT: 1.725 min Scan# 505

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 45 Resp: 181

Ion Ratio Lower Upper

45 100

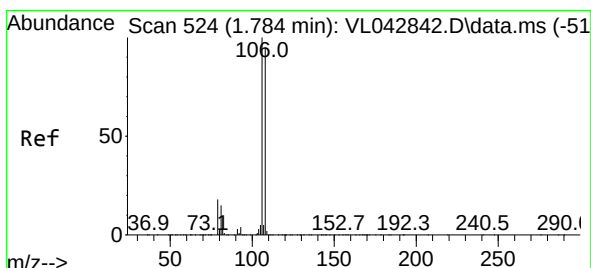
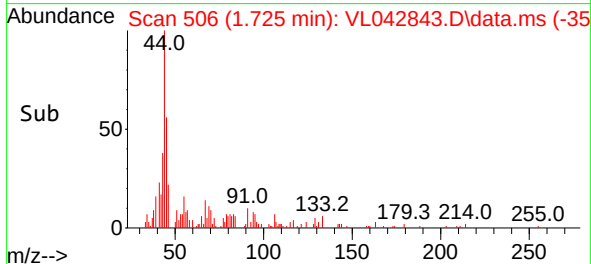
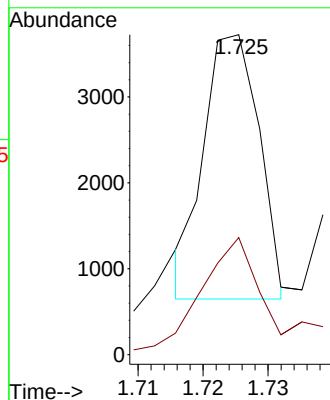
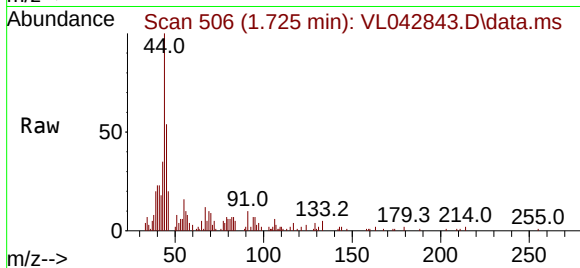
46 60.5 17.5 69.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#14

Bromoethene

Concen: 2.089 ppbv

RT: 1.784 min Scan# 524

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

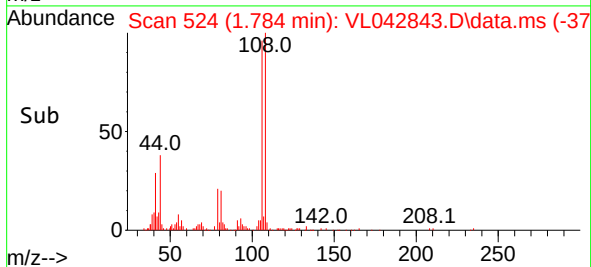
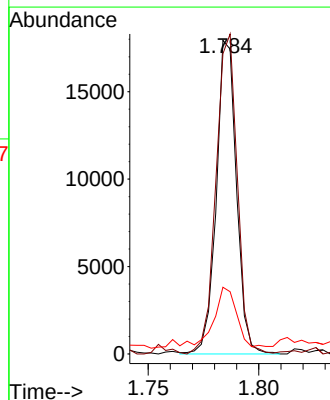
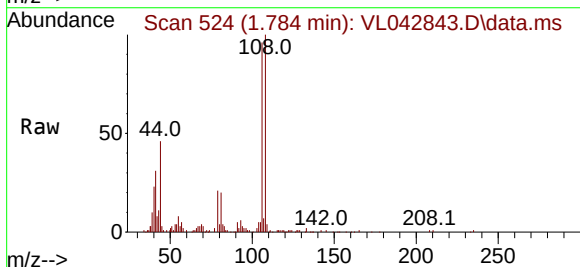
Tgt Ion:108 Resp: 11376

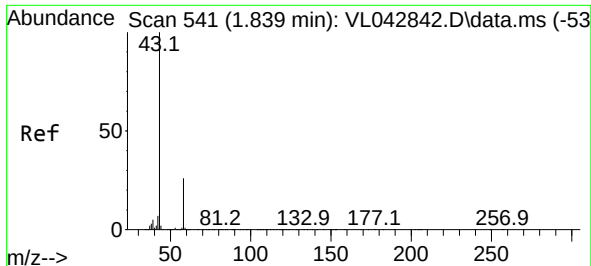
Ion Ratio Lower Upper

108 100

106 110.8 85.1 127.7

79 22.6 16.3 24.5





#15

Acetone

Concen: 2.231 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 43 Resp: 3853

Ion Ratio Lower Upper

43 100

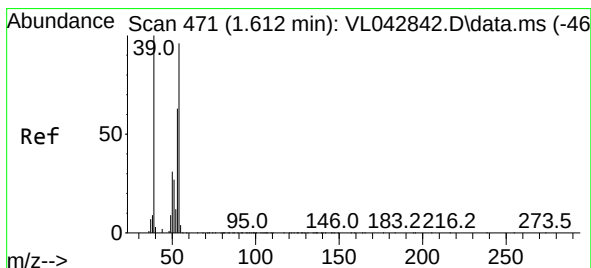
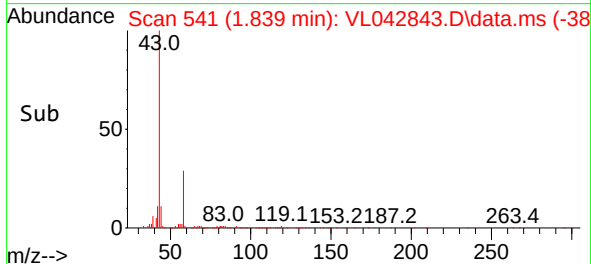
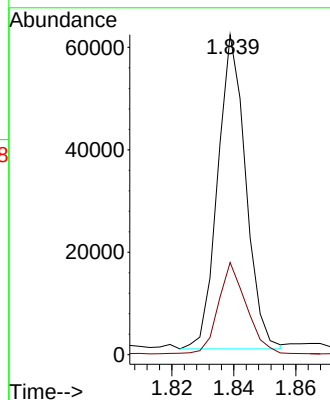
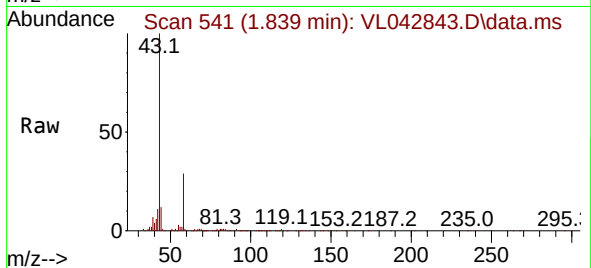
58 30.3 22.4 33.6

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#16

1,3-Butadiene

Concen: 1.932 ppbv

RT: 1.612 min Scan# 471

Delta R.T. 0.000 min

Lab File: VL042843.D

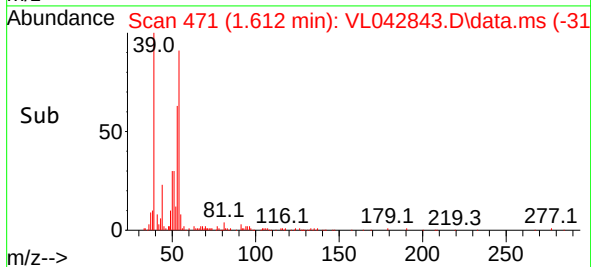
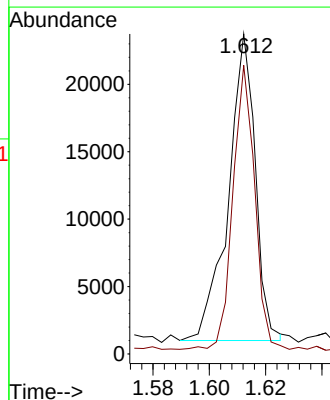
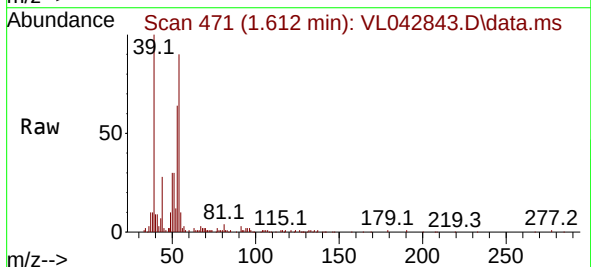
Acq: 13 Aug 2025 09:06

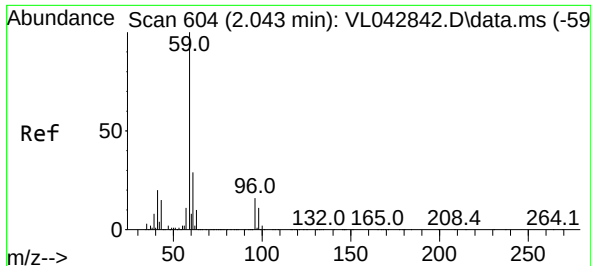
Tgt Ion: 39 Resp: 15122

Ion Ratio Lower Upper

39 100

54 80.8 63.6 95.4





#17

tert-Butyl alcohol

Concen: 1.985 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 59 Resp: 40652

Ion Ratio Lower Upper

59 100

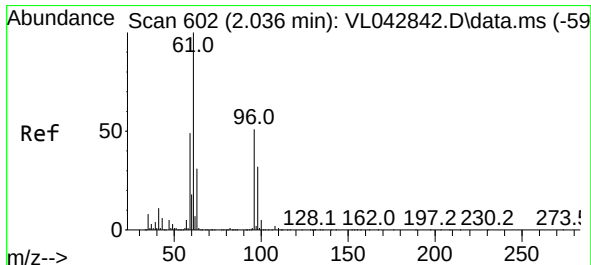
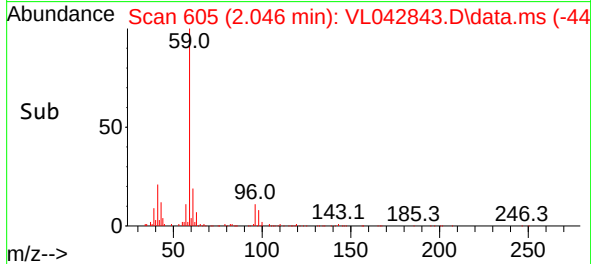
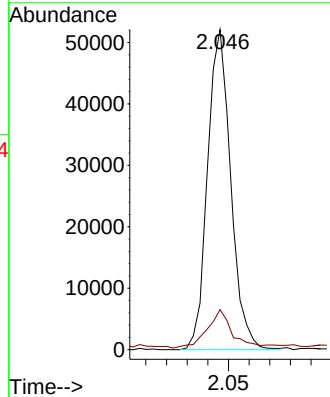
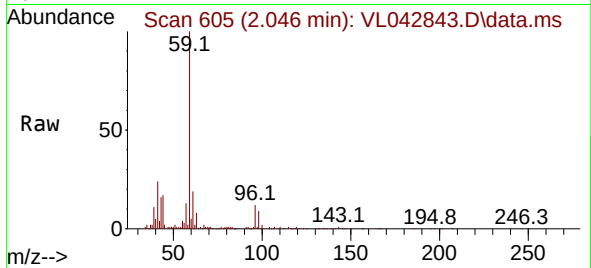
57 12.4 9.0 13.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#18

1,1-Dichloroethene

Concen: 2.099 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

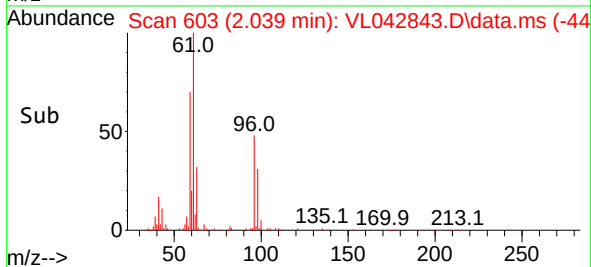
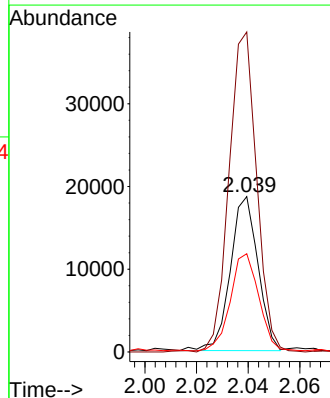
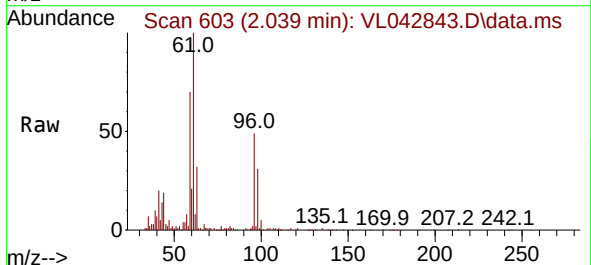
Tgt Ion: 96 Resp: 13883

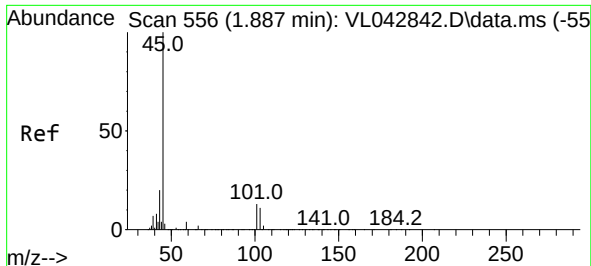
Ion Ratio Lower Upper

96 100

61 207.1 158.2 237.4

98 62.6 50.6 76.0





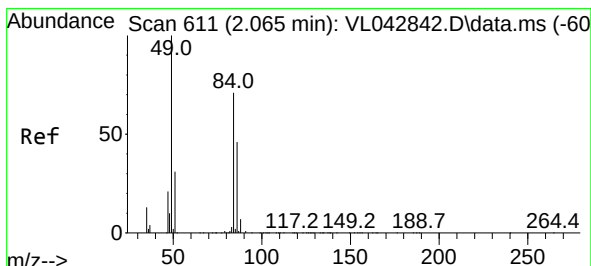
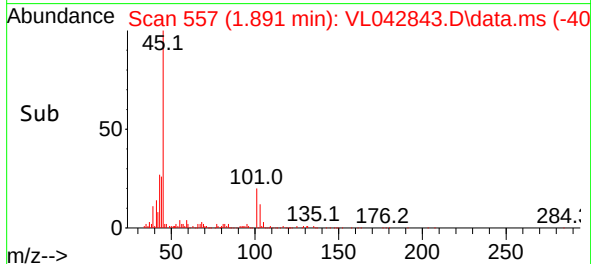
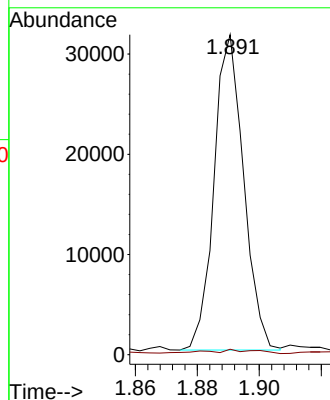
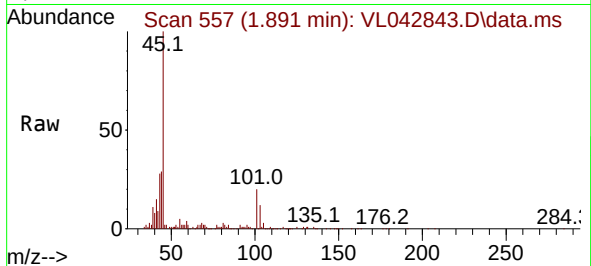
#19  
Isopropyl Alcohol  
Concen: 2.023 ppbv  
RT: 1.891 min Scan# 556  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 45 Resp: 20860  
Ion Ratio Lower Upper  
45 100  
58 3.1 32.7 49.1

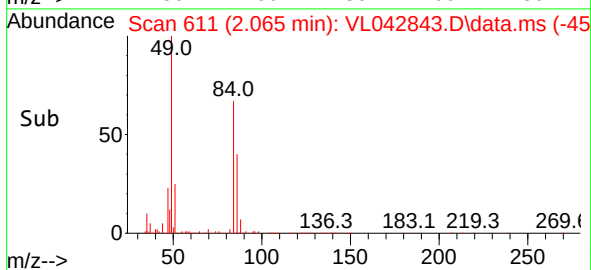
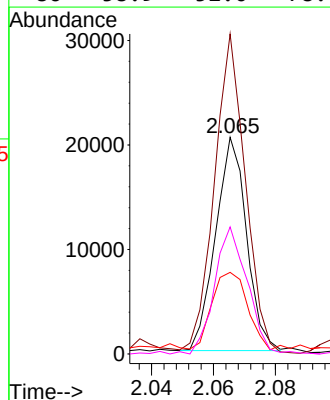
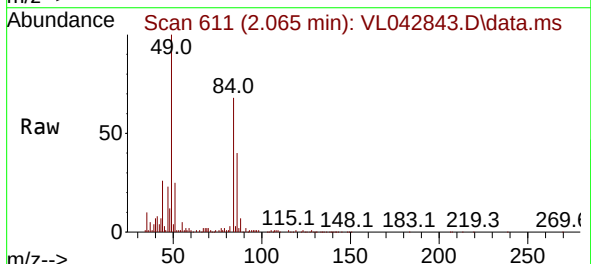
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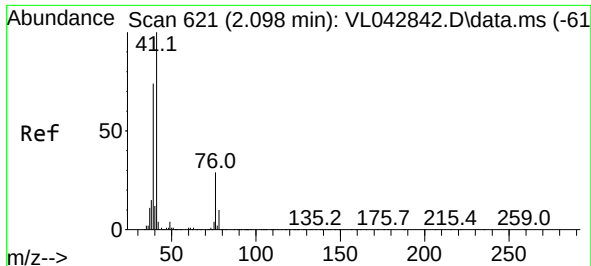
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#20  
Methylene Chloride  
Concen: 1.963 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 84 Resp: 14204  
Ion Ratio Lower Upper  
84 100  
49 148.1 112.3 168.5  
51 35.3 36.0 54.0#  
86 58.9 52.0 78.0





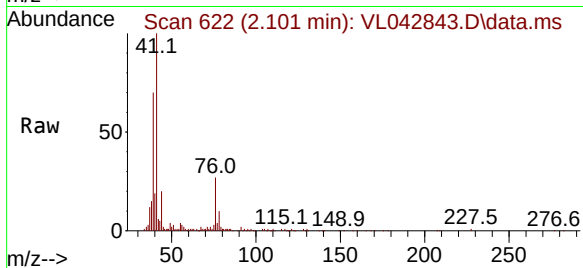
#21  
 Allyl Chloride  
 Concen: 2.021 ppbv  
 RT: 2.101 min Scan# 611  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

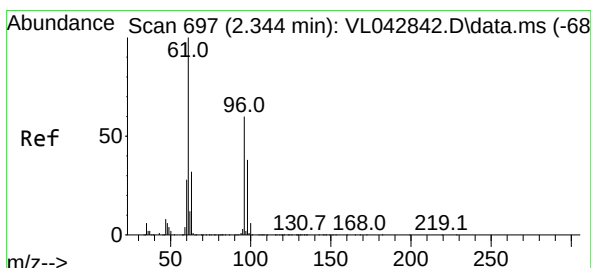
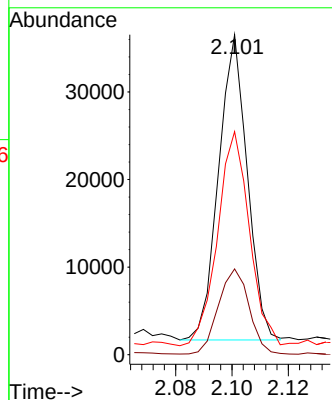
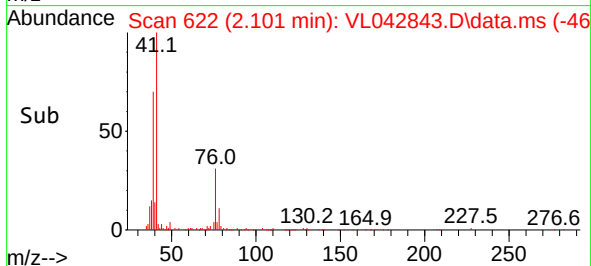
VSTDICC002



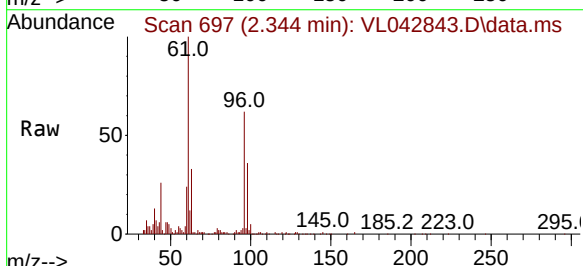
Tgt Ion: 41 Resp: 24662  
 Ion Ratio Lower Upper  
 41 100  
 76 31.2 23.9 35.9  
 39 76.0 57.8 86.6

Manual Integrations  
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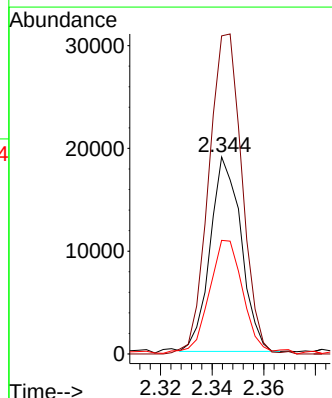
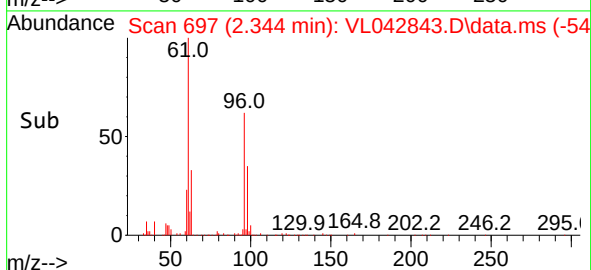
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



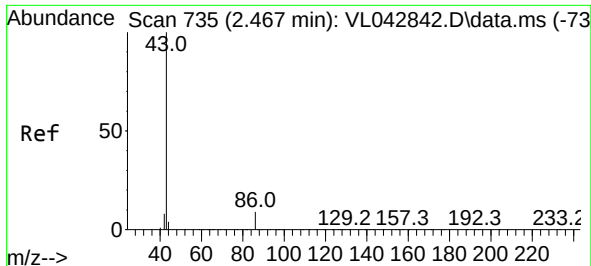
#22  
 trans-1,2-Dichloroethene  
 Concen: 2.132 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06



Tgt Ion: 96 Resp: 15773  
 Ion Ratio Lower Upper  
 96 100  
 61 162.8 132.6 199.0  
 98 56.7 50.0 75.0

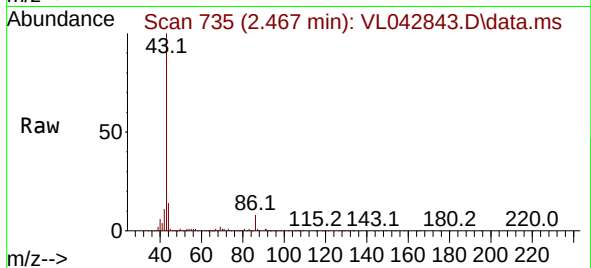






#23  
 Vinyl Acetate  
 Concen: 2.125 ppbv  
 RT: 2.467 min Scan# 719  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

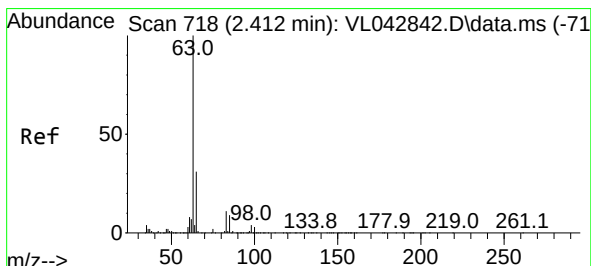
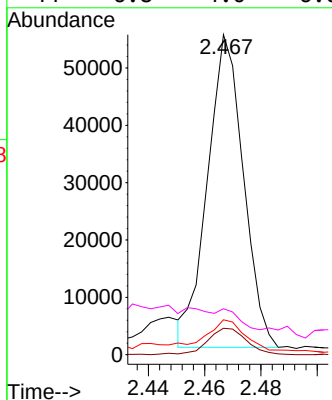
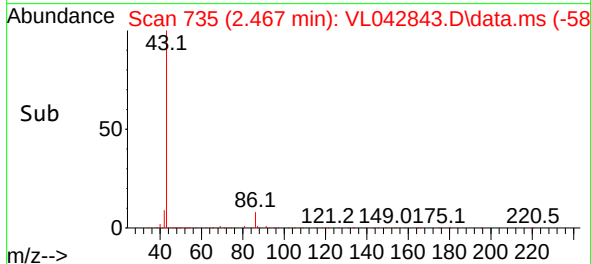
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICC002



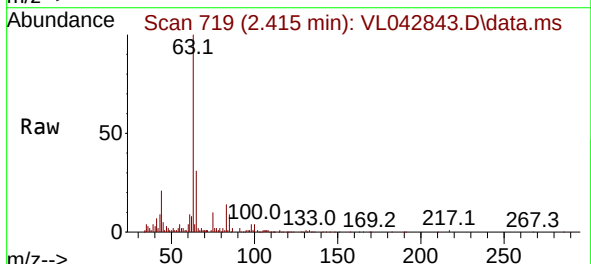
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 86      | 8.2   | 6.6   | 9.8   |
| 42      | 9.7   | 7.0   | 10.6  |
| 44      | 6.8   | 4.0   | 6.0   |

Manual Integrations  
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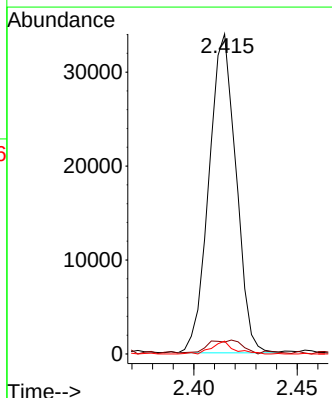
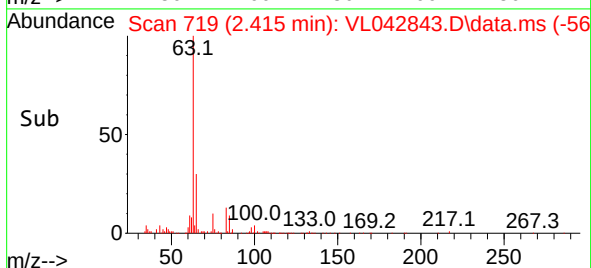
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

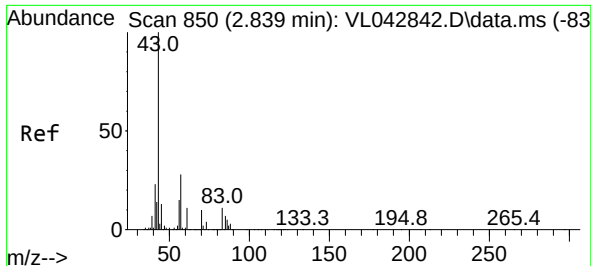


#24  
 1,1-Dichloroethane  
 Concen: 2.024 ppbv  
 RT: 2.415 min Scan# 719  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 3.4   | 2.1   | 6.5   |
| 100     | 4.0   | 1.7   | 5.1   |





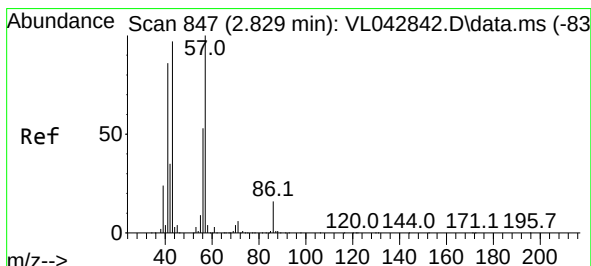
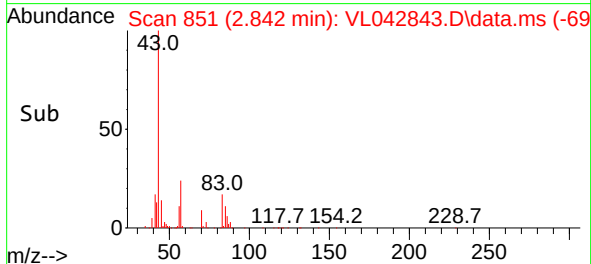
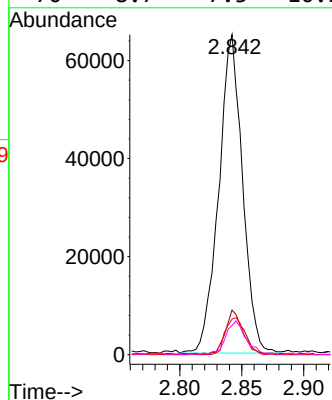
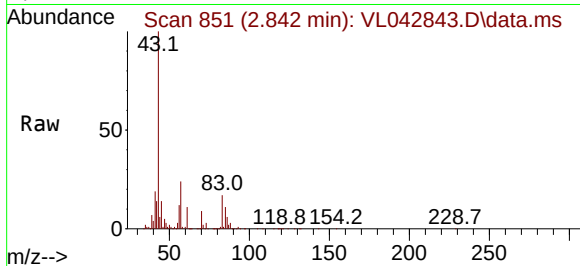
#25  
Ethyl Acetate  
Concen: 2.077 ppbv  
RT: 2.842 min Scan# 851  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 86804 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 11.4     | 8.1 12.1    |
| 61 9.4      | 7.4 11.2    |
| 70 8.7      | 7.3 10.9    |

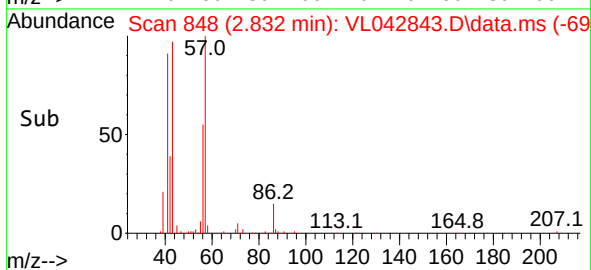
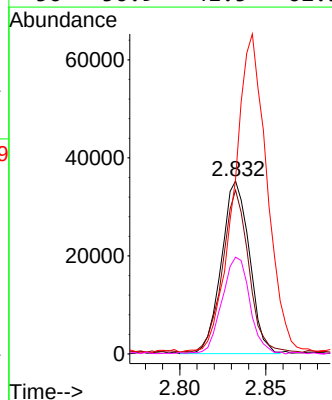
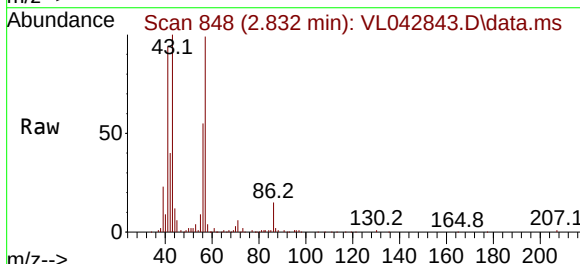
Manual Integrations  
APPROVED

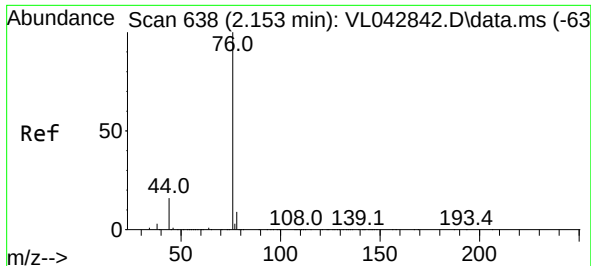
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#26  
Hexane  
Concen: 2.060 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

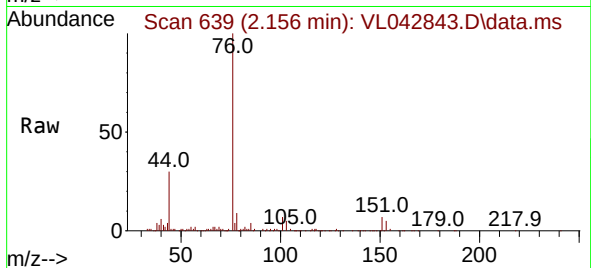
|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 39735 |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 90.3     | 68.6 103.0  |
| 43 219.4    | 168.5 252.7 |
| 56 56.9     | 41.5 62.3   |





#27  
Carbon Disulfide  
Concen: 2.102 ppbv  
RT: 2.156 min Scan# 638  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

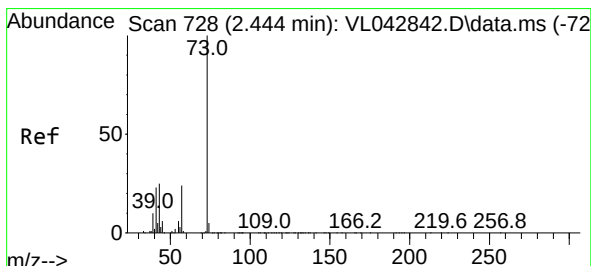
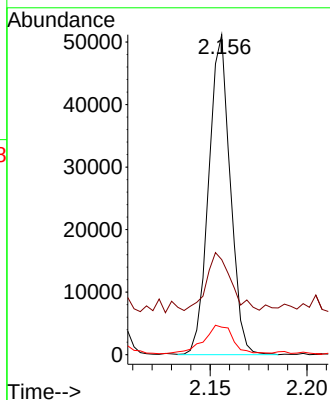
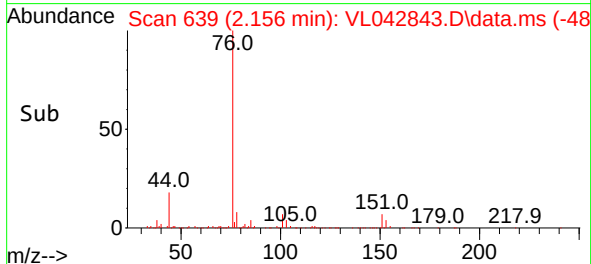
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



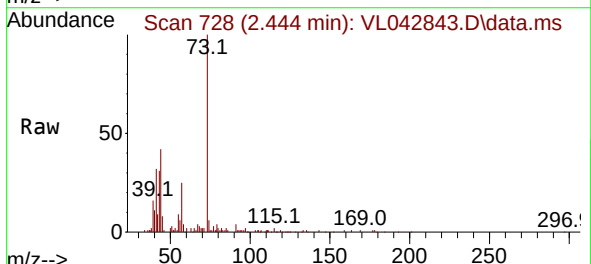
Tgt Ion: 76 Resp: 39460  
Ion Ratio Lower Upper  
76 100  
44 81.0 15.9 23.9  
78 13.8 9.5 14.3

Manual Integrations  
APPROVED

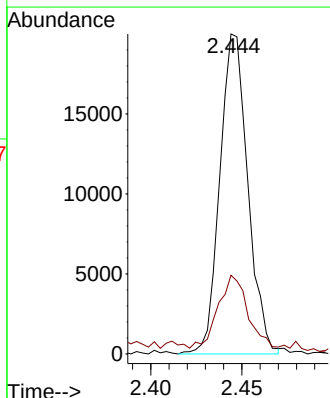
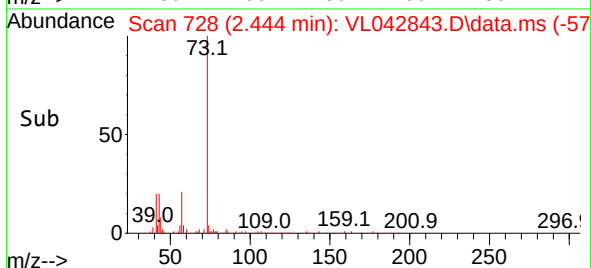
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

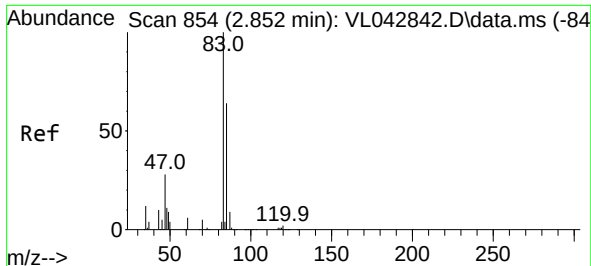


#28  
Methyl tert-Butyl Ether  
Concen: 2.169 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



Tgt Ion: 73 Resp: 21341  
Ion Ratio Lower Upper  
73 100  
57 24.8 21.6 32.4





#29

Chloroform

Concen: 2.053 ppbv

RT: 2.855 min Scan# 855

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

Tgt Ion: 83 Resp: 5655

Ion Ratio Lower Upper

83 100

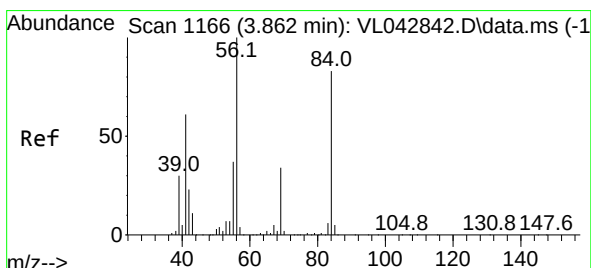
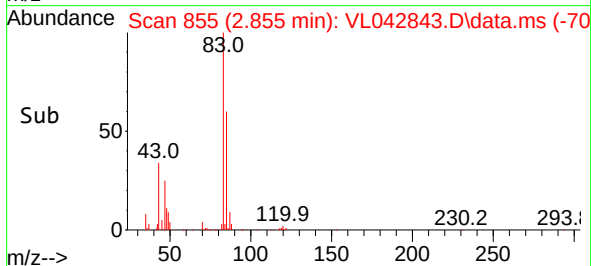
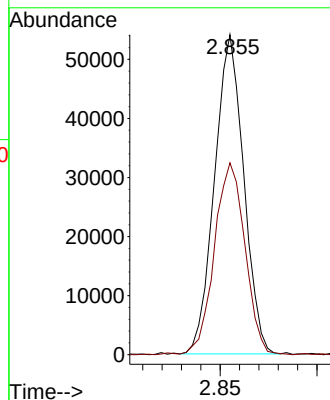
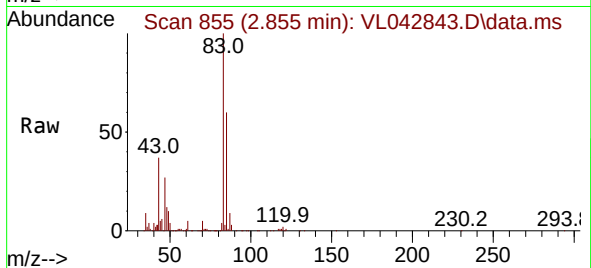
85 59.9 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.007 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

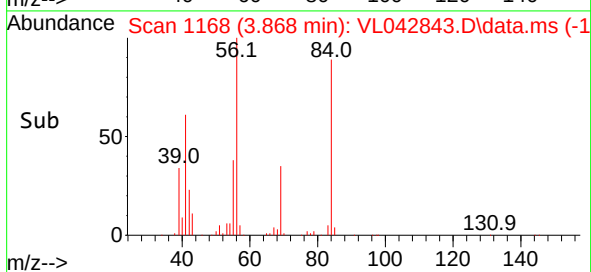
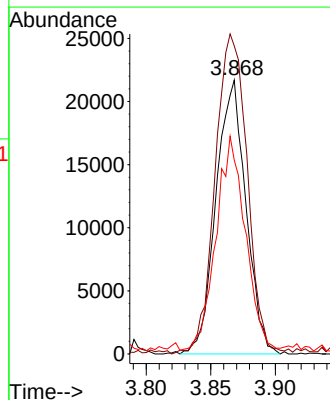
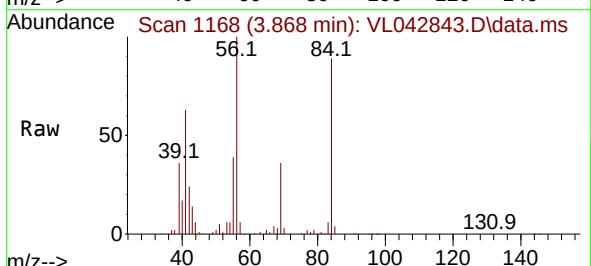
Tgt Ion: 84 Resp: 34992

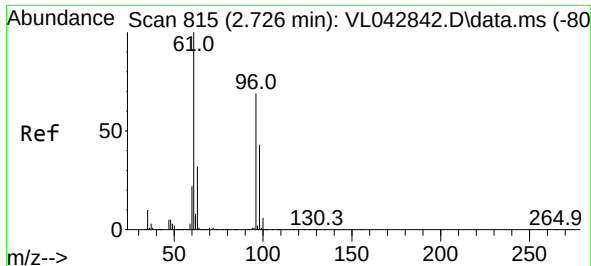
Ion Ratio Lower Upper

84 100

56 123.9 98.8 148.2

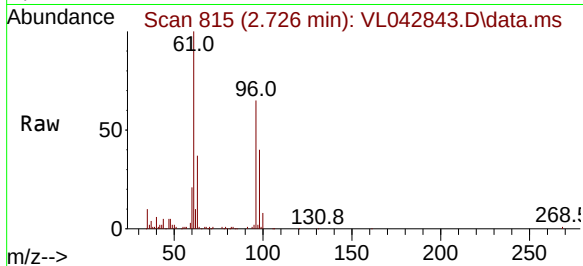
41 79.6 61.3 91.9





#31  
 cis-1,2-Dichloroethene  
 Concen: 2.062 ppbv  
 RT: 2.726 min Scan# 815  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

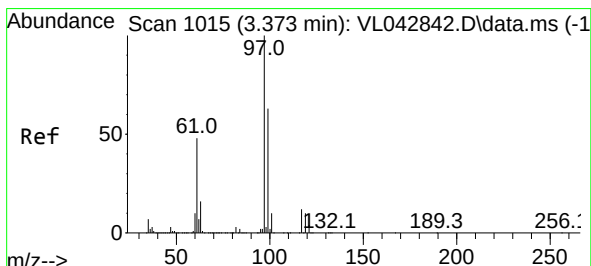
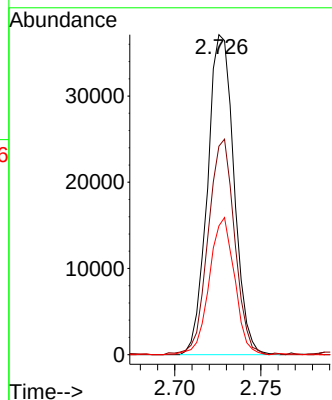
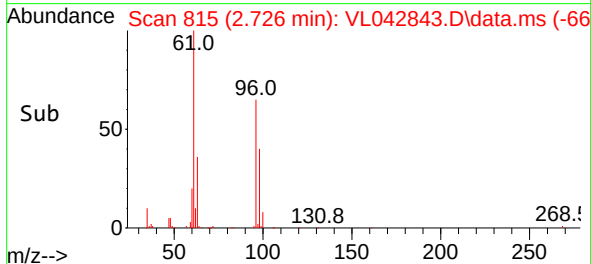
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



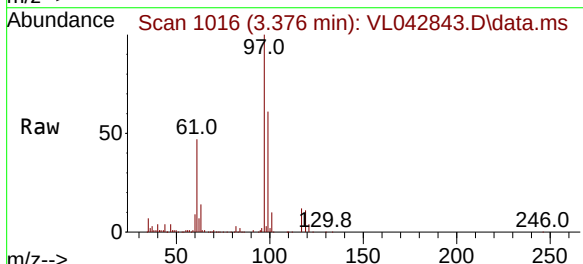
Tgt Ion: 61 Resp: 3978  
 Ion Ratio Lower Upper  
 61 100  
 96 64.8 55.0 82.6  
 98 39.9 34.3 51.5

Manual Integrations  
 APPROVED

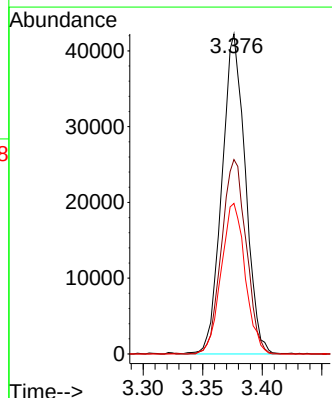
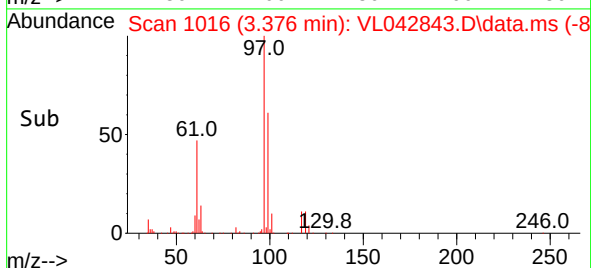
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

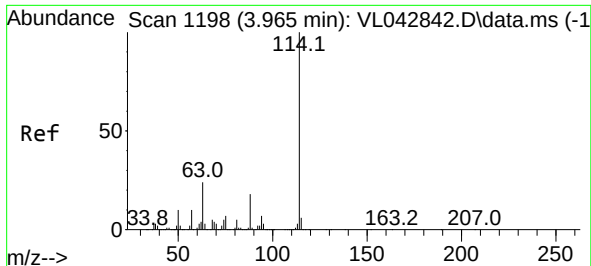


#32  
 1,1,1-Trichloroethane  
 Concen: 1.983 ppbv  
 RT: 3.376 min Scan# 1016  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06



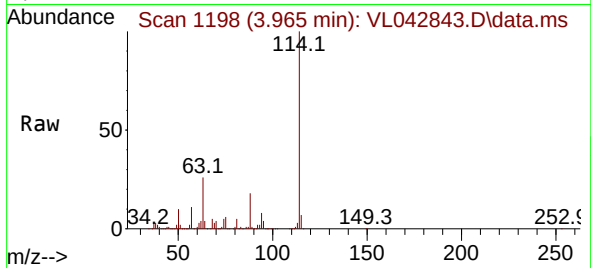
Tgt Ion: 97 Resp: 57837  
 Ion Ratio Lower Upper  
 97 100  
 99 63.9 51.0 76.6  
 61 48.1 38.0 57.0





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 1198  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

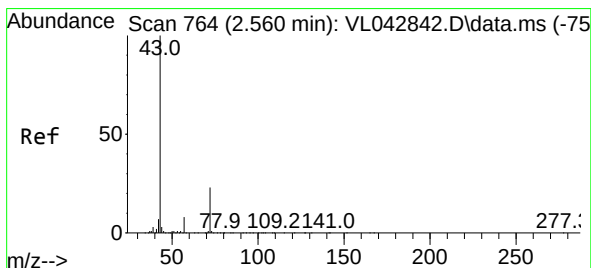
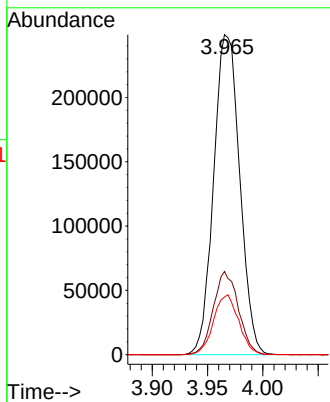
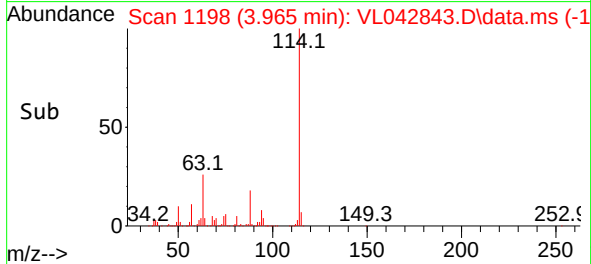
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



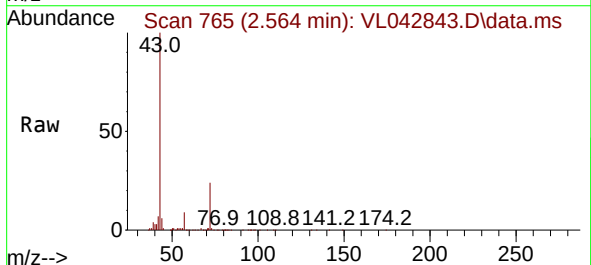
Tgt Ion:114 Resp: 408144  
Ion Ratio Lower Upper  
114 100  
63 25.0 19.7 29.5  
88 18.1 14.4 21.6

Manual Integrations  
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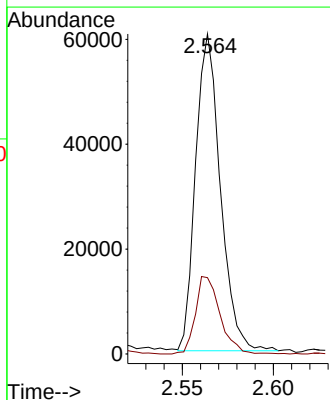
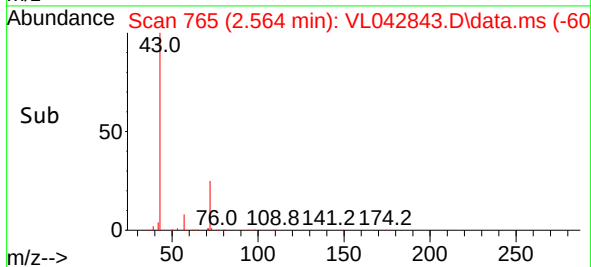
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

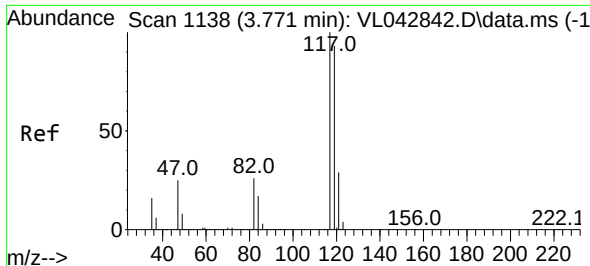


#34  
2-Butanone  
Concen: 2.075 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



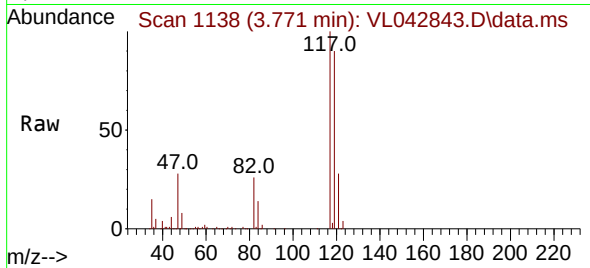
Tgt Ion: 43 Resp: 57172  
Ion Ratio Lower Upper  
43 100  
72 24.3 18.6 28.0





#35  
Carbon Tetrachloride  
Concen: 2.007 ppbv  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

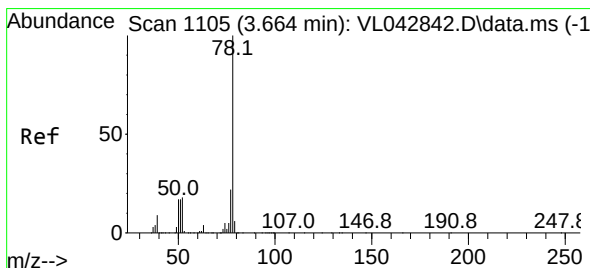
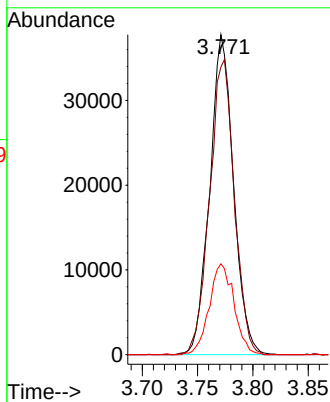
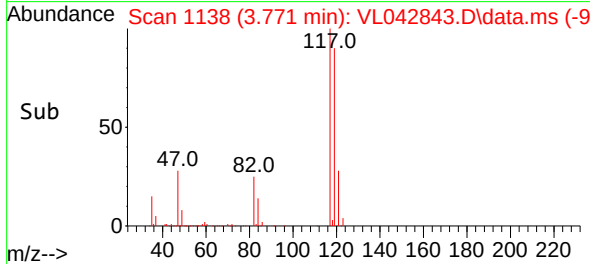
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC002



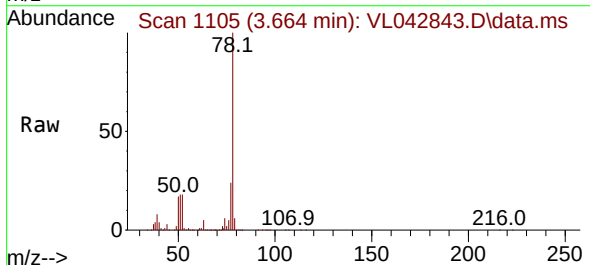
Tgt Ion: 117 Resp: 56459  
Ion Ratio Lower Upper  
117 100  
119 89.9 74.7 112.1  
121 28.4 23.2 34.8

Manual Integrations  
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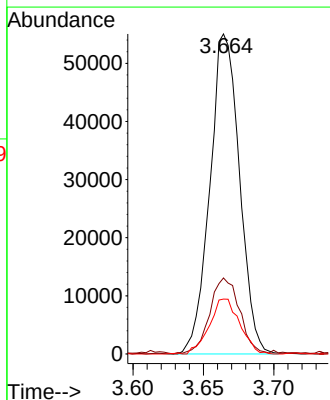
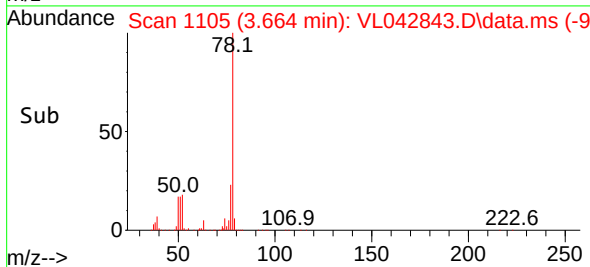
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

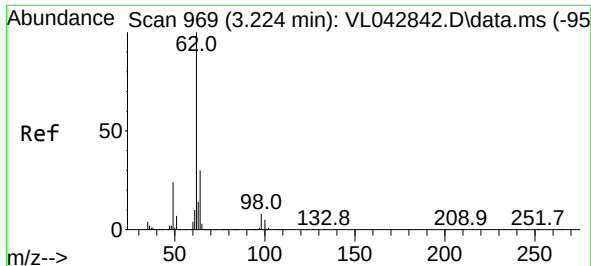


#36  
Benzene  
Concen: 2.067 ppbv  
RT: 3.664 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



Tgt Ion: 78 Resp: 80781  
Ion Ratio Lower Upper  
78 100  
77 23.5 17.7 26.5  
50 17.2 13.9 20.9





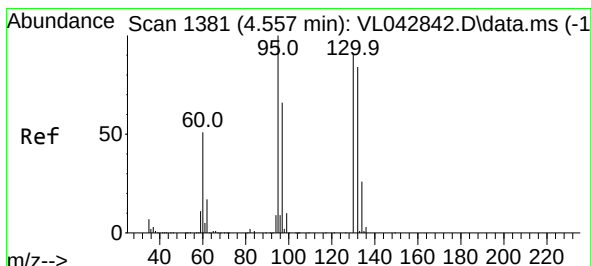
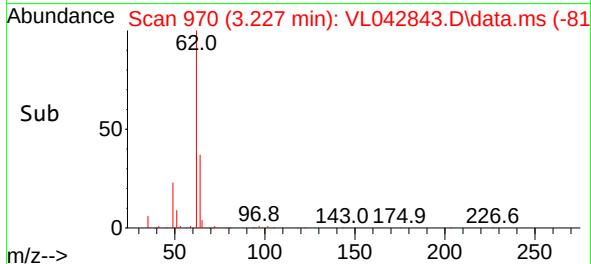
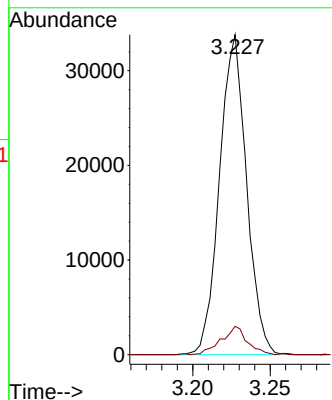
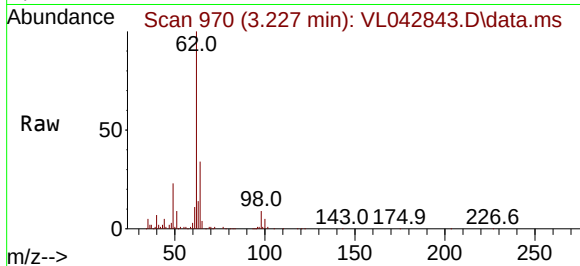
#37  
1,2-Dichloroethane  
Concen: 2.010 ppbv  
RT: 3.227 min Scan# 91  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 62 Resp: 41034  
Ion Ratio Lower Upper  
62 100  
98 8.6 5.9 8.9

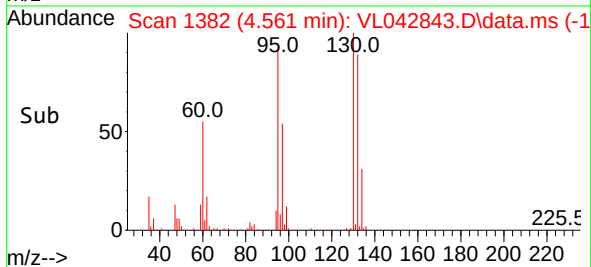
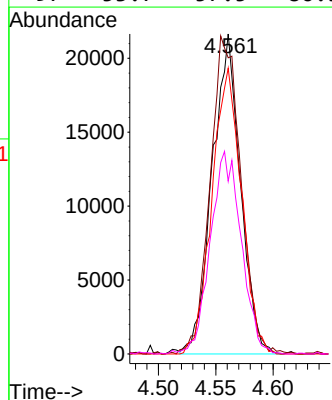
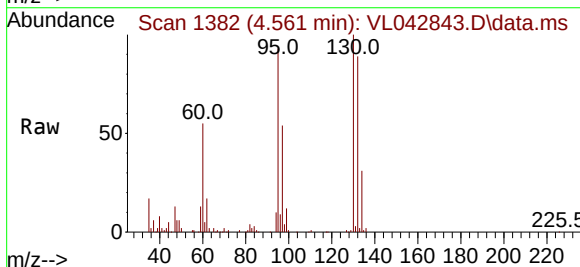
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

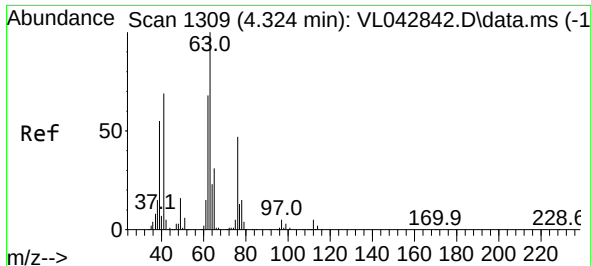


#38  
Trichloroethene  
Concen: 2.072 ppbv  
RT: 4.561 min Scan# 1382  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion:130 Resp: 36990  
Ion Ratio Lower Upper  
130 100  
95 91.5 87.6 131.4  
132 89.3 73.8 110.8  
97 53.7 57.5 86.3#







#39

1,2-Dichloropropane

Concen: 2.036 ppbv

RT: 4.328 min Scan# 1309

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

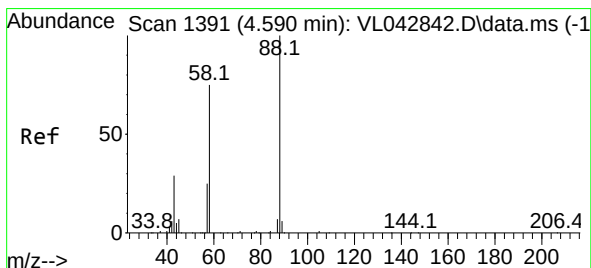
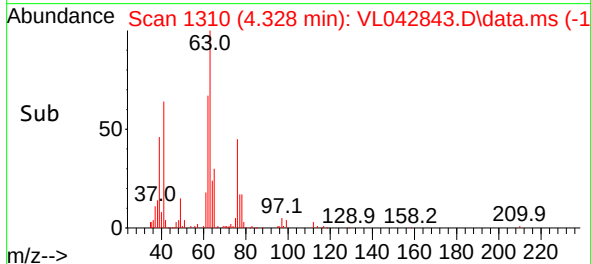
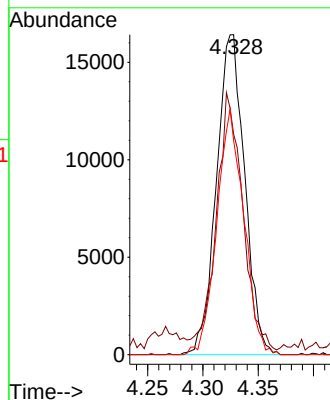
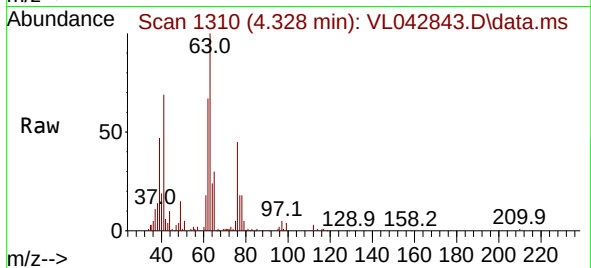
|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 2905  |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 41 66.8     | 55.0 82.4   |
| 62 66.9     | 54.4 81.6   |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 2.022 ppbv m

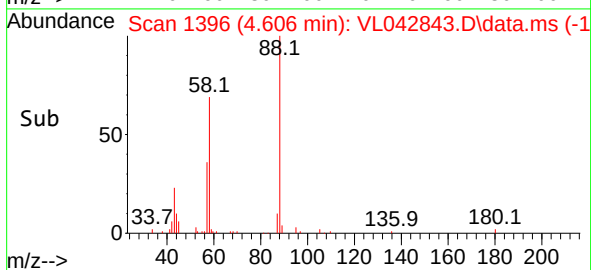
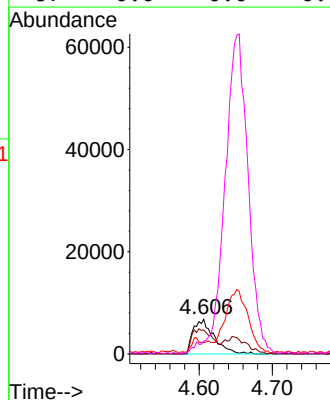
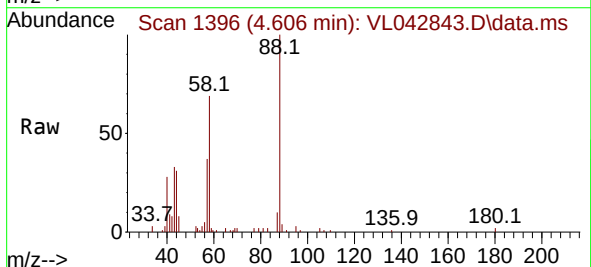
RT: 4.606 min Scan# 1396

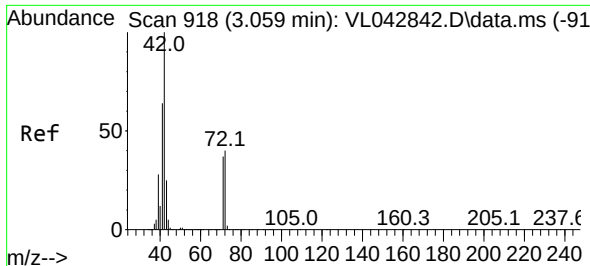
Delta R.T. 0.016 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

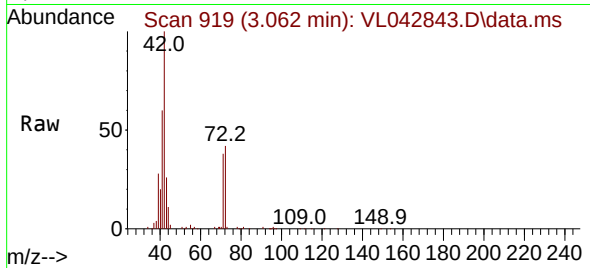
|             |             |
|-------------|-------------|
| Tgt Ion: 88 | Resp: 13510 |
| Ion Ratio   | Lower Upper |
| 88 100      |             |
| 58 69.3     | 53.8 80.6   |
| 43 0.0      | 22.8 34.2#  |
| 57 0.0      | 0.0 0.0     |





#41  
Tetrahydrofuran  
Concen: 2.082 ppbv  
RT: 3.062 min Scan# 918  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

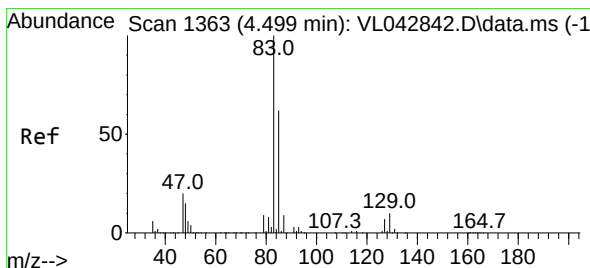
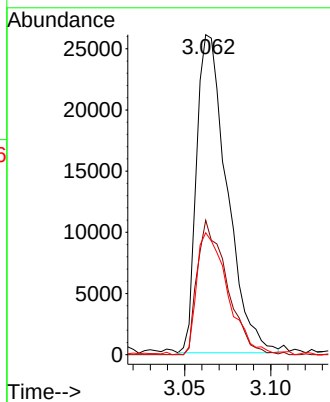
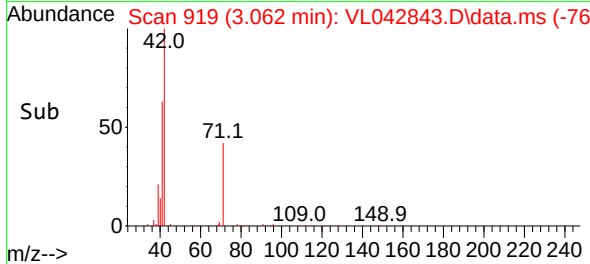
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



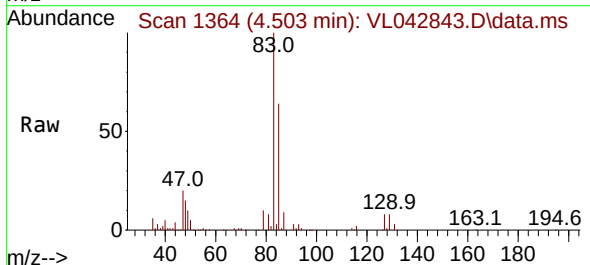
Tgt Ion: 42 Resp: 31994  
Ion Ratio Lower Upper  
42 100  
72 41.3 32.6 48.8  
71 40.1 30.0 45.0

Manual Integrations  
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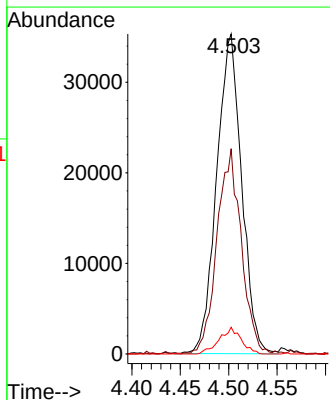
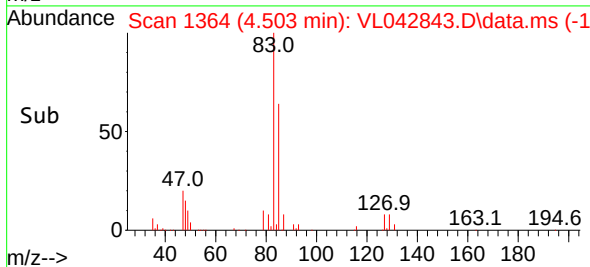
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

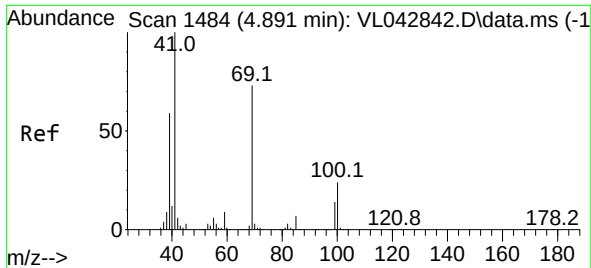


#42  
Bromodichloromethane  
Concen: 2.085 ppbv  
RT: 4.503 min Scan# 1364  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



Tgt Ion: 83 Resp: 63436  
Ion Ratio Lower Upper  
83 100  
85 64.2 49.8 74.8  
127 8.4 5.8 8.6





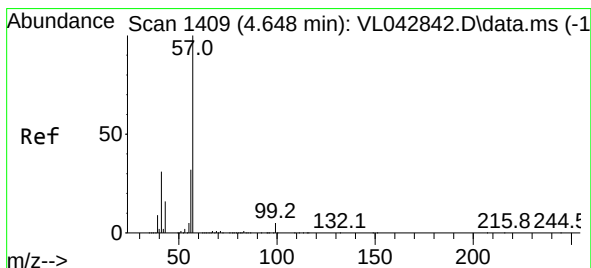
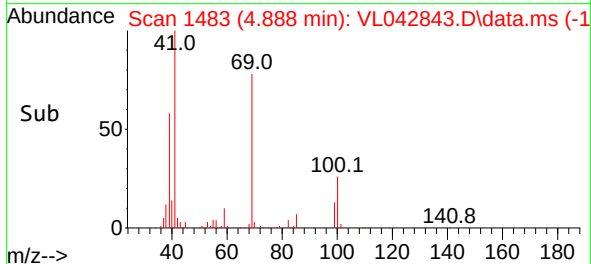
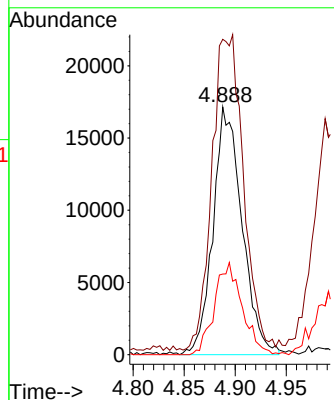
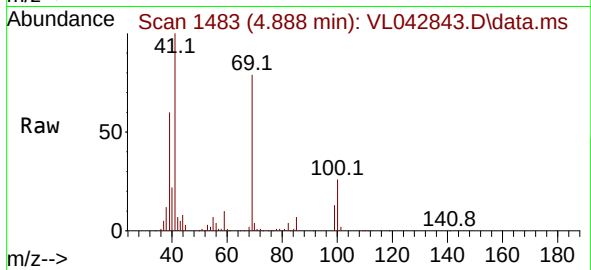
#43  
Methyl Methacrylate  
Concen: 2.111 ppbv m  
RT: 4.888 min Scan# 1411  
Delta R.T. -0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion: 69 Resp: 3385  
Ion Ratio Lower Upper  
69 100  
41 0.0 114.6 172.0  
100 0.0 30.2 45.4

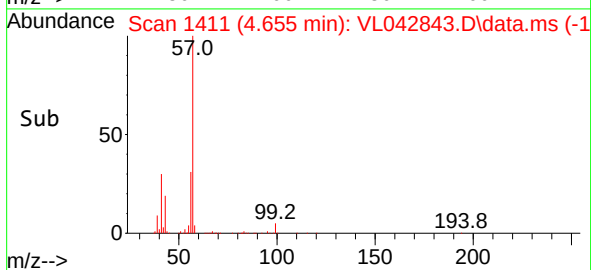
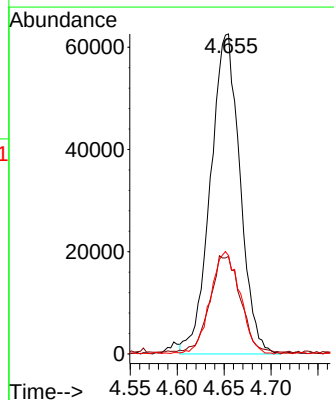
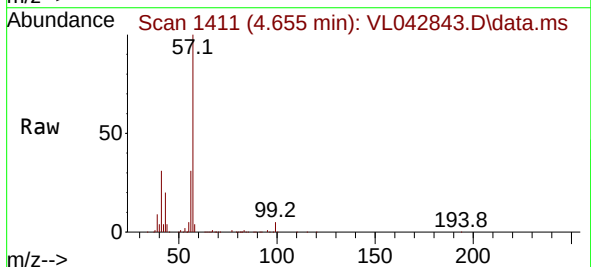
Manual Integrations  
APPROVED

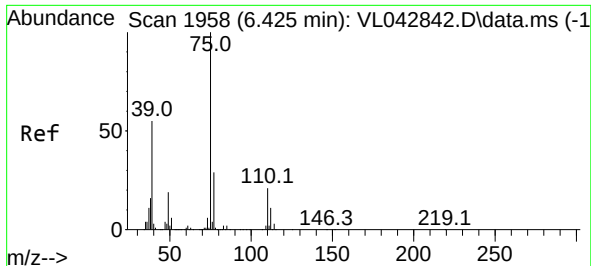
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#44  
2,2,4-Trimethylpentane  
Concen: 2.085 ppbv  
RT: 4.655 min Scan# 1411  
Delta R.T. 0.007 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

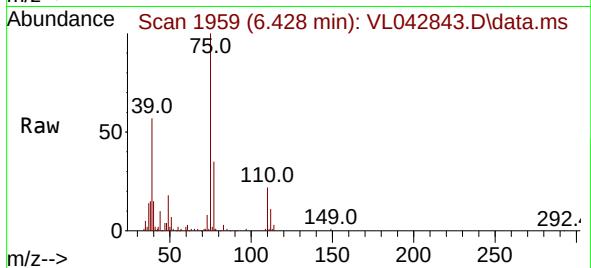
Tgt Ion: 57 Resp: 136794  
Ion Ratio Lower Upper  
57 100  
41 32.5 24.8 37.2  
56 32.6 25.5 38.3





#45  
 t-1,3-Dichloropropene  
 Concen: 2.048 ppbv  
 RT: 6.428 min Scan# 1958  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

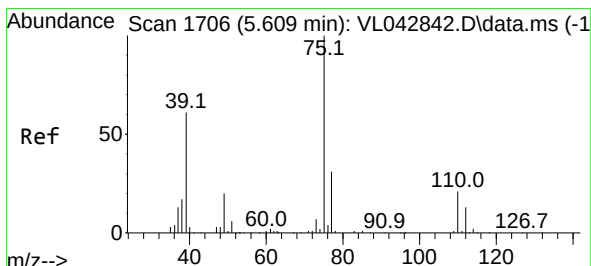
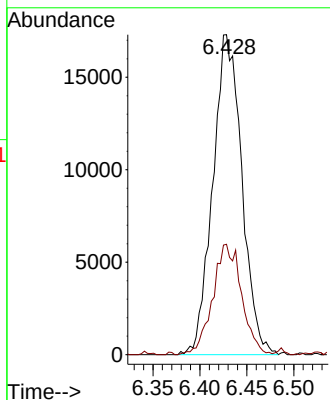
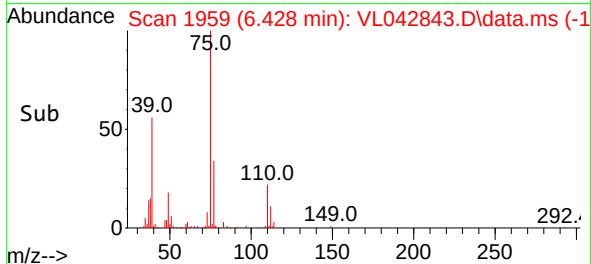
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



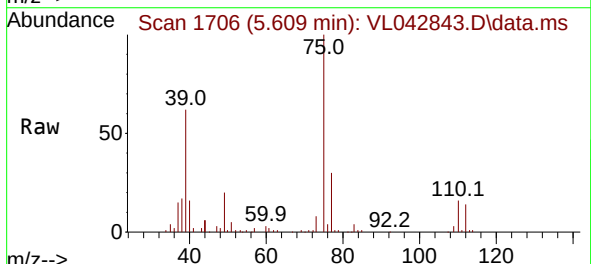
Tgt Ion: 75 Resp: 3724  
 Ion Ratio Lower Upper  
 75 100  
 77 35.2 23.8 35.6

Manual Integrations  
 APPROVED

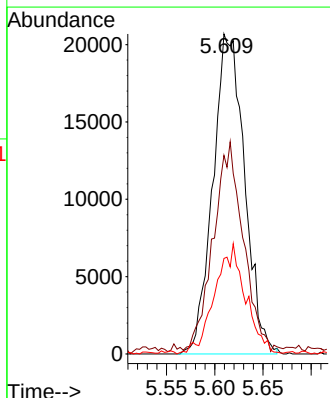
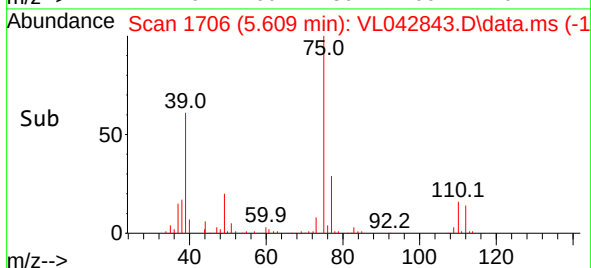
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

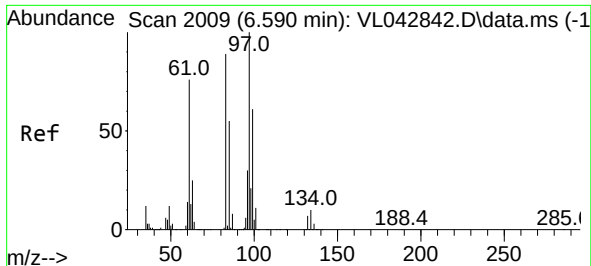


#46  
 cis-1,3-Dichloropropene  
 Concen: 2.067 ppbv m  
 RT: 5.609 min Scan# 1706  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06



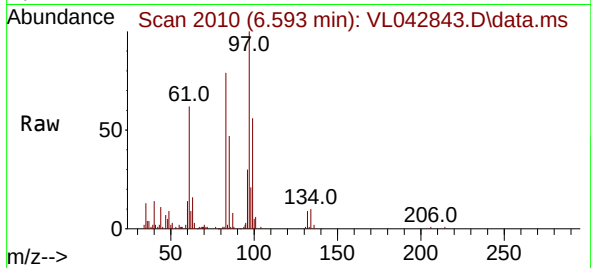
Tgt Ion: 75 Resp: 47201  
 Ion Ratio Lower Upper  
 75 100  
 39 62.1 48.9 73.3  
 77 29.8 24.9 37.3





#47  
1,1,2-Trichloroethane  
Concen: 2.083 ppbv  
RT: 6.593 min Scan# 2009  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

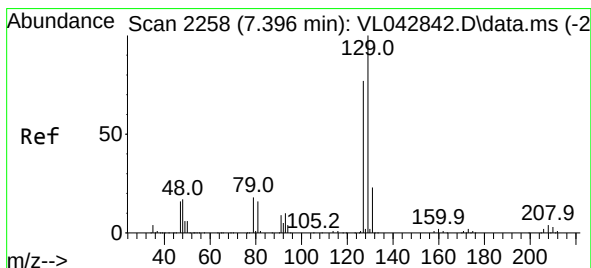
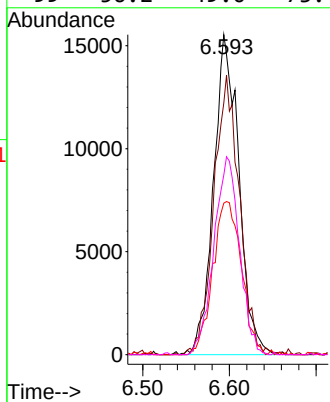
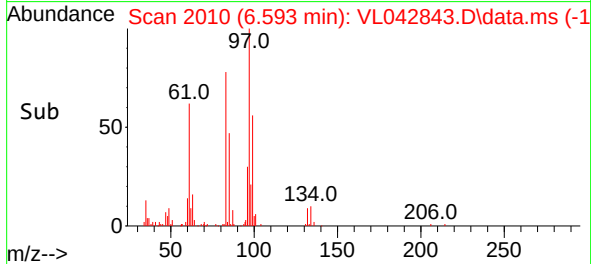
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



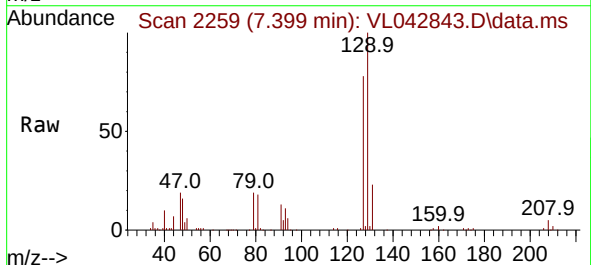
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 78.7  | 71.0  | 106.4 |
| 85      | 47.3  | 43.6  | 65.4  |
| 99      | 56.2  | 49.0  | 73.4  |

Manual Integrations  
APPROVED

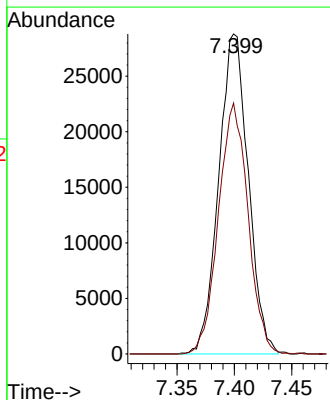
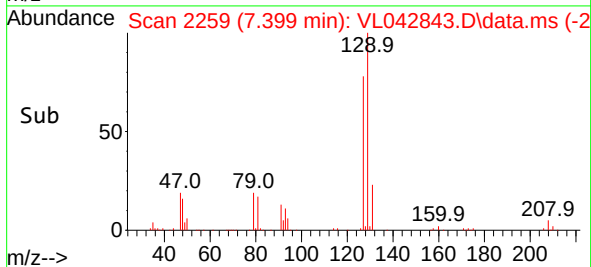
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

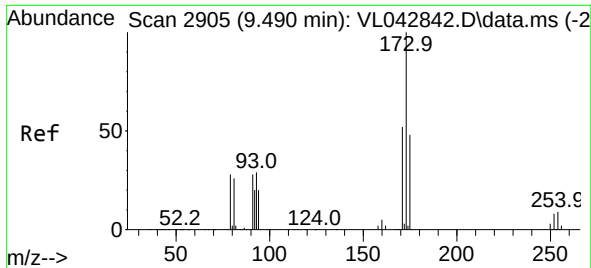


#48  
Dibromochloromethane  
Concen: 2.109 ppbv  
RT: 7.399 min Scan# 2259  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



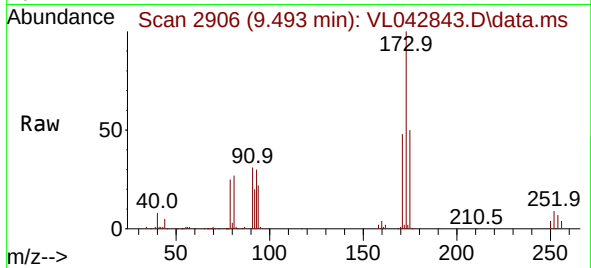
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 78.4  | 39.4  | 118.2 |





#49  
Bromoform  
Concen: 2.163 ppbv  
RT: 9.493 min Scan# 2905  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

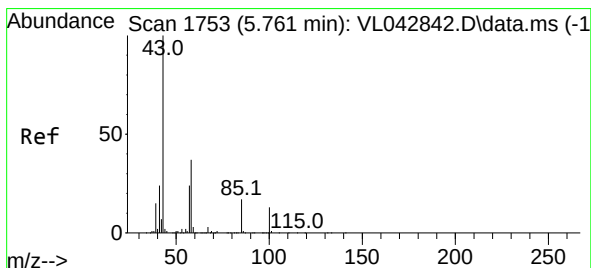
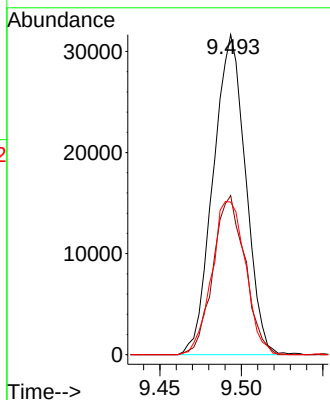
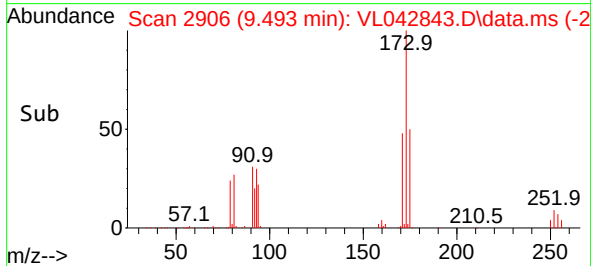
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



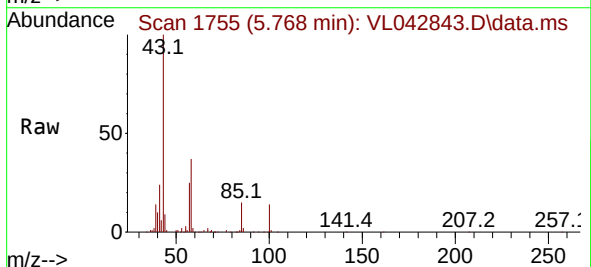
Tgt Ion:173 Resp: 43662  
Ion Ratio Lower Upper  
173 100  
175 49.1 39.2 58.8  
171 50.0 41.3 61.9

Manual Integrations  
APPROVED

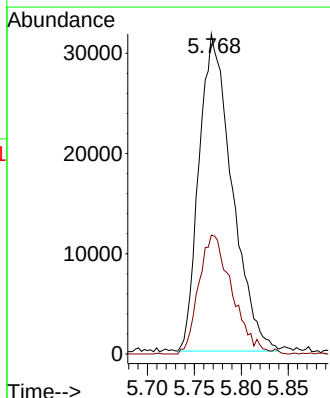
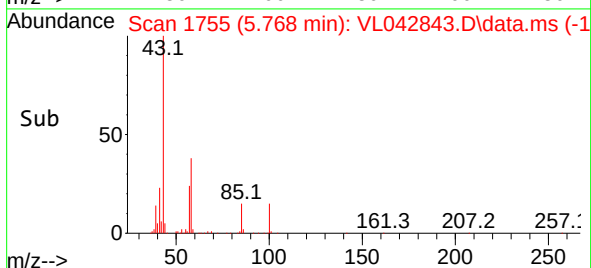
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

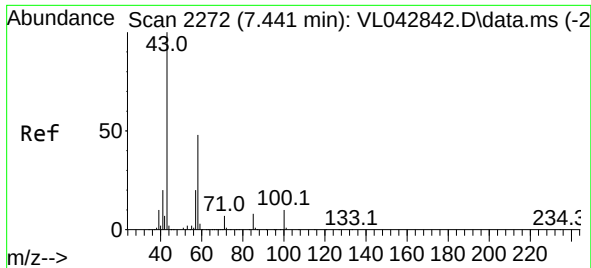


#50  
4-Methyl-2-Pentanone  
Concen: 2.066 ppbv  
RT: 5.768 min Scan# 1755  
Delta R.T. 0.007 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



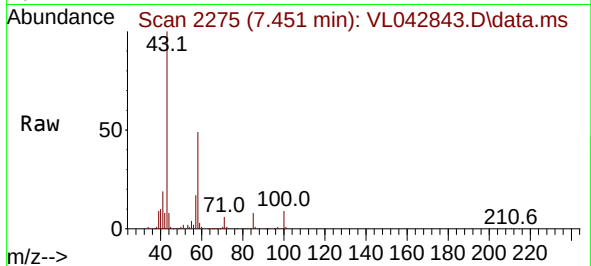
Tgt Ion: 43 Resp: 77225  
Ion Ratio Lower Upper  
43 100  
58 38.1 29.8 44.8





#51  
2-Hexanone  
Concen: 2.088 ppbv  
RT: 7.451 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

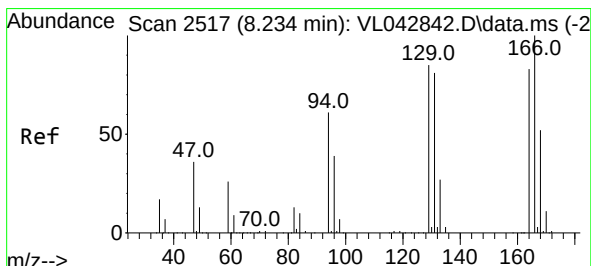
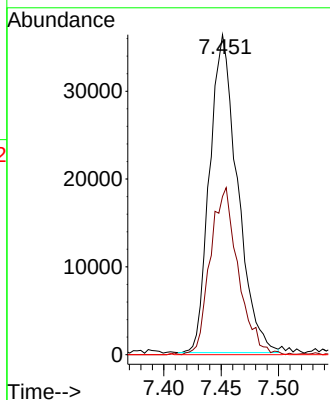
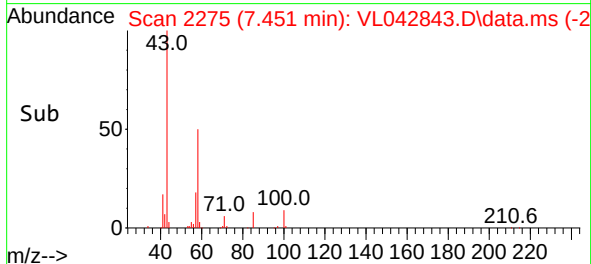
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



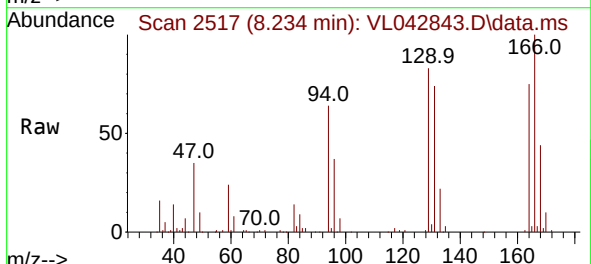
Tgt Ion: 43 Resp: 61210  
Ion Ratio Lower Upper  
43 100  
58 52.9 41.0 61.6  
98 0.0 0.1 0.1

Manual Integrations  
APPROVED

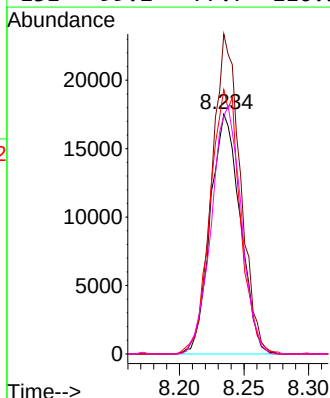
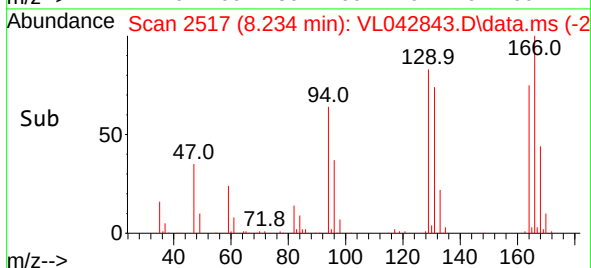
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

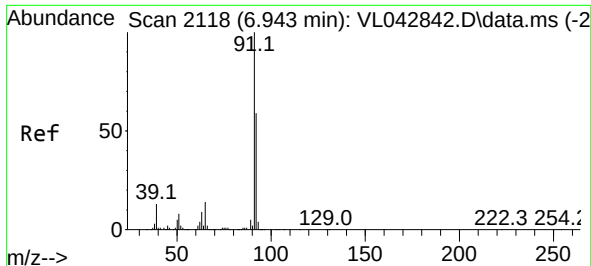


#52  
Tetrachloroethene  
Concen: 1.990 ppbv  
RT: 8.234 min Scan# 2517  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



Tgt Ion:164 Resp: 28166  
Ion Ratio Lower Upper  
164 100  
166 133.5 96.5 144.7  
129 110.3 81.8 122.6  
131 99.2 77.7 116.5





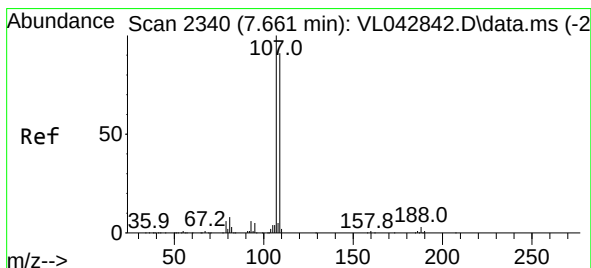
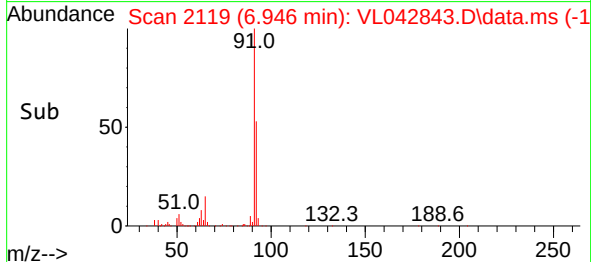
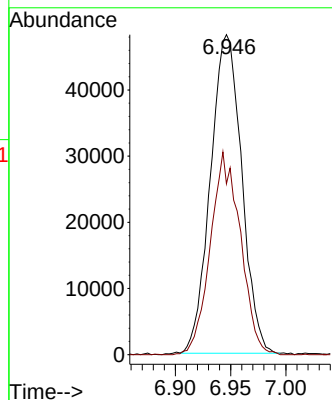
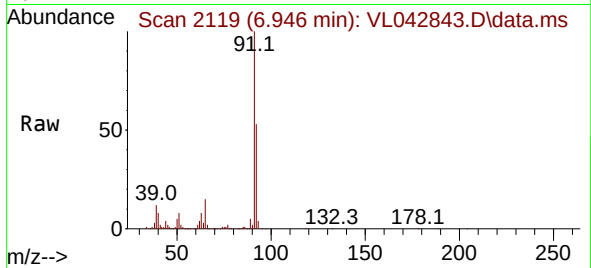
#53  
Toluene  
Concen: 2.036 ppbv  
RT: 6.946 min Scan# 2118  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion: 91 Resp: 94690  
Ion Ratio Lower Upper  
91 100  
92 61.1 47.8 71.6

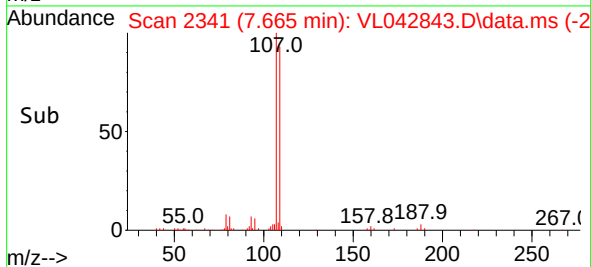
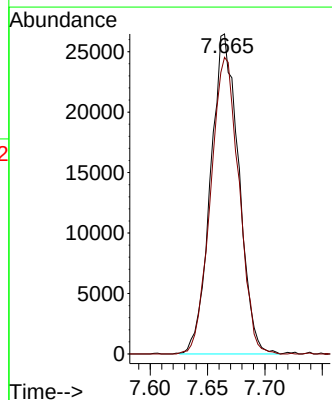
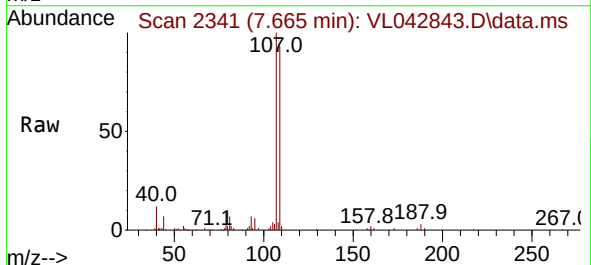
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

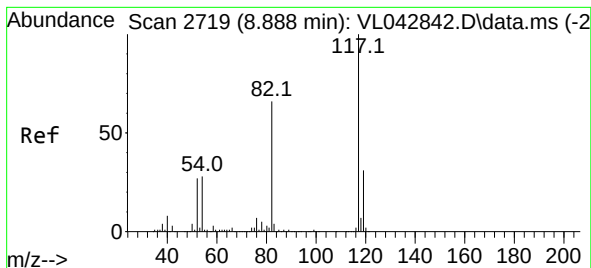


#54  
1,2-Dibromoethane  
Concen: 2.039 ppbv  
RT: 7.665 min Scan# 2341  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion:107 Resp: 45071  
Ion Ratio Lower Upper  
107 100  
109 92.7 72.5 108.7







#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2719

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion:117 Resp: 363830

Ion Ratio Lower Upper

117 100

82 65.4 54.6 81.8

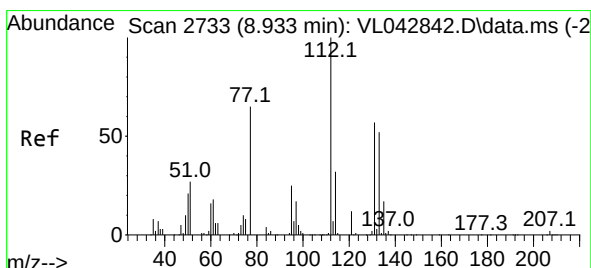
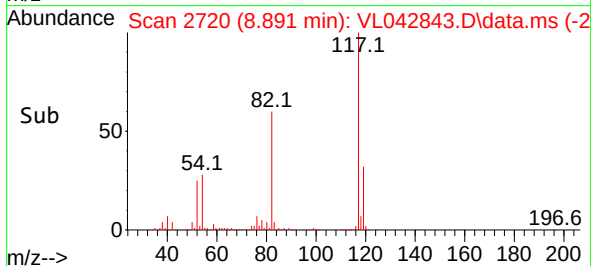
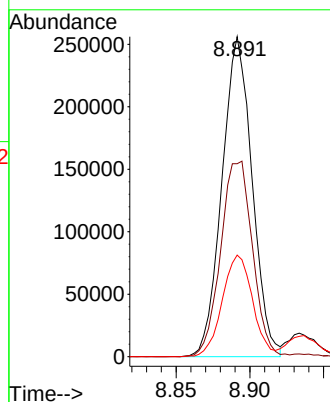
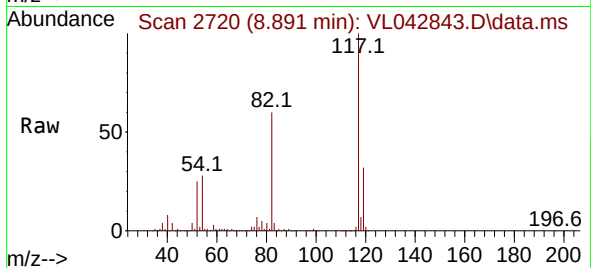
119 32.8 25.9 38.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#56

1,1,1,2-Tetrachloroethane

Concen: 2.131 ppbv

RT: 8.933 min Scan# 2733

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

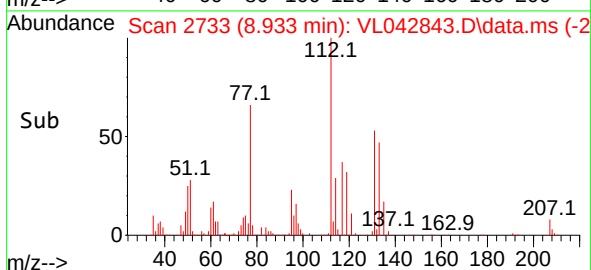
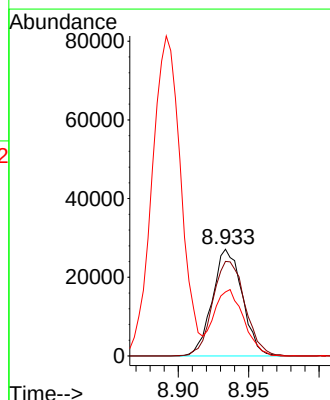
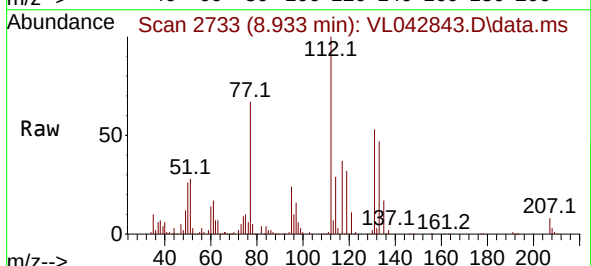
Tgt Ion:131 Resp: 40090

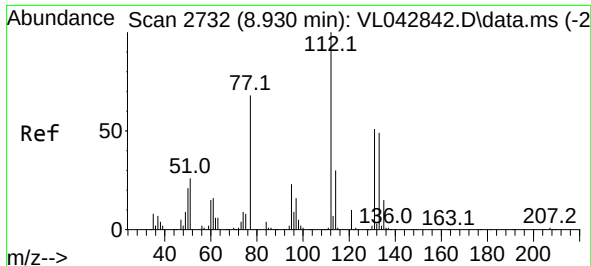
Ion Ratio Lower Upper

131 100

133 96.1 77.4 116.0

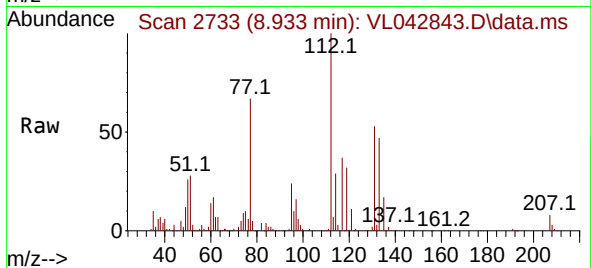
119 59.3 51.2 76.8





#57  
Chlorobenzene  
Concen: 2.090 ppbv  
RT: 8.933 min Scan# 2732  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

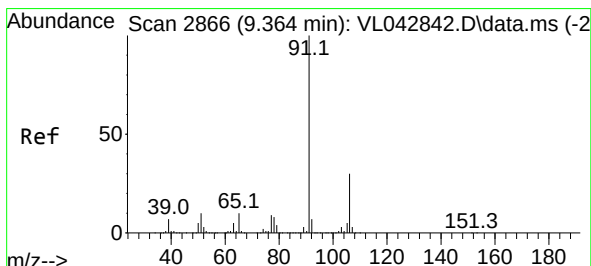
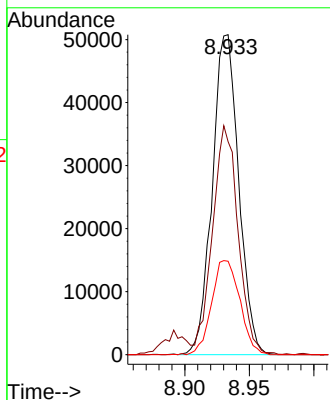
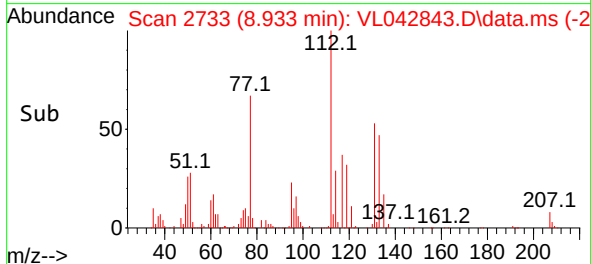
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



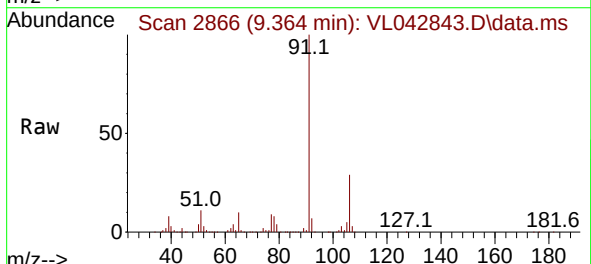
Tgt Ion: 112 Resp: 72290  
Ion Ratio Lower Upper  
112 100  
77 66.4 55.5 83.3  
114 29.2 27.2 33.2

Manual Integrations  
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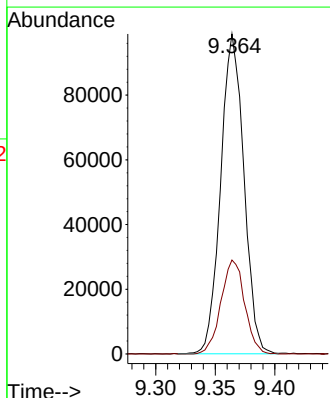
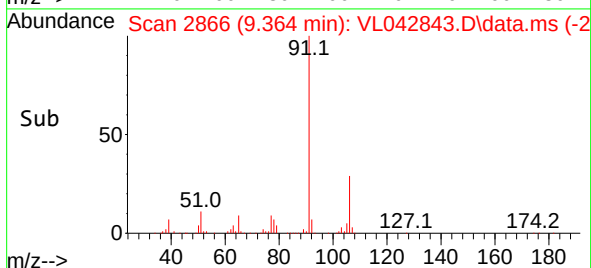
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

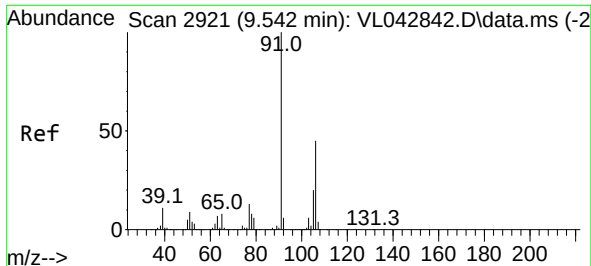


#58  
Ethyl Benzene  
Concen: 2.083 ppbv  
RT: 9.364 min Scan# 2866  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



Tgt Ion: 91 Resp: 133719  
Ion Ratio Lower Upper  
91 100  
106 29.4 23.9 35.9





#59

m/p-Xylene

Concen: 4.200 ppbv m

RT: 9.558 min Scan# 2921

Delta R.T. 0.016 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 91 Resp: 211704

Ion Ratio Lower Upper

91 100

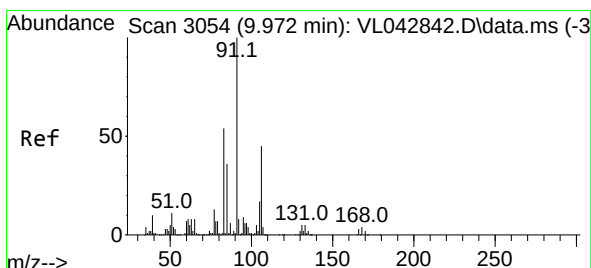
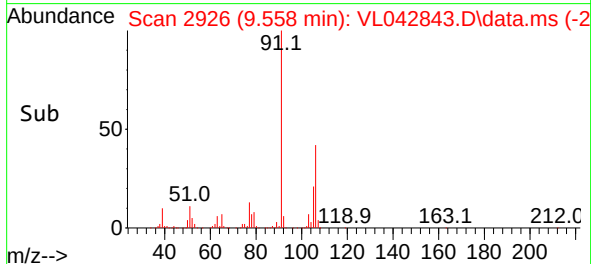
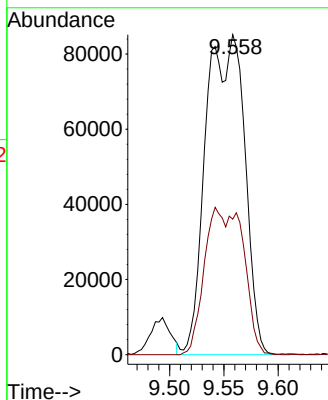
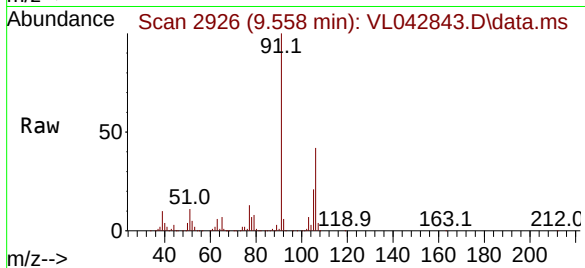
106 46.1 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#60

o-Xylene

Concen: 2.077 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042843.D

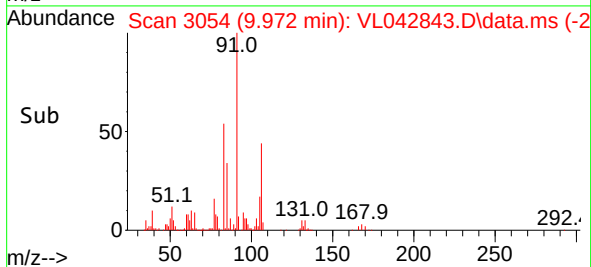
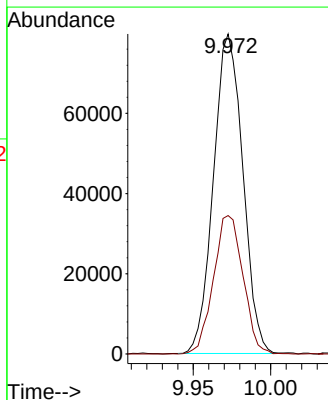
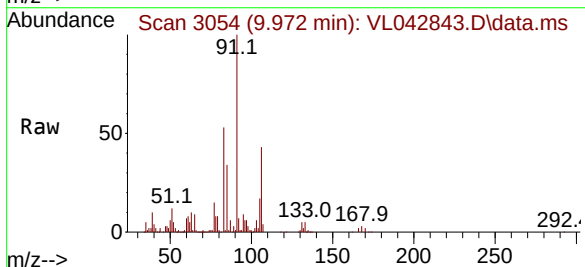
Acq: 13 Aug 2025 09:06

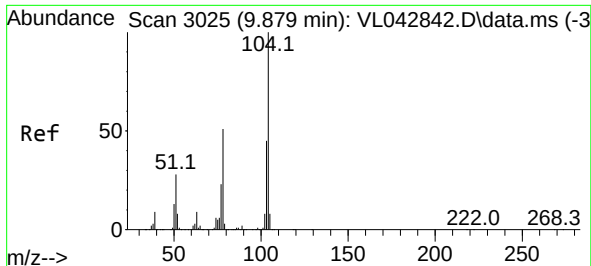
Tgt Ion: 91 Resp: 105125

Ion Ratio Lower Upper

91 100

106 43.5 21.8 65.4





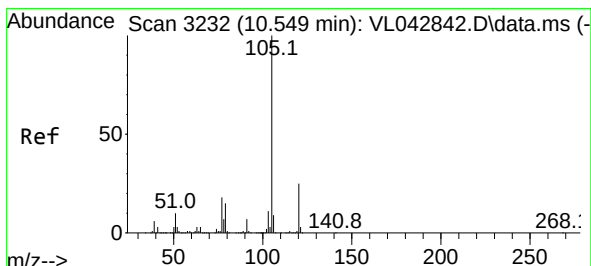
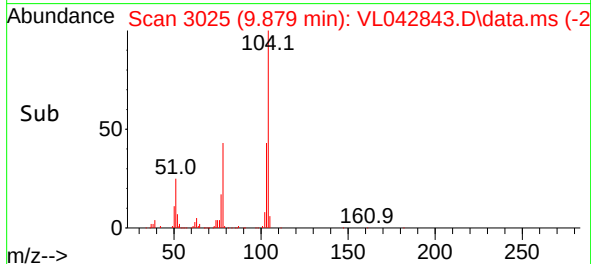
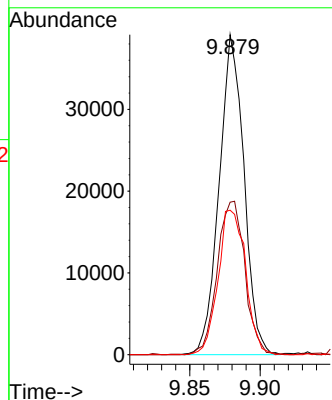
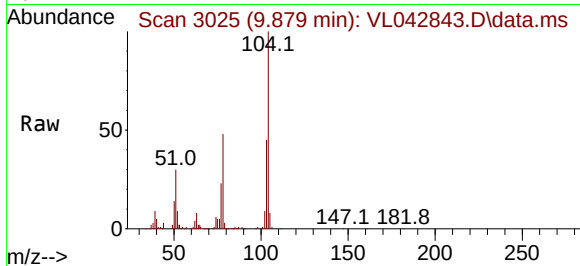
#61  
Styrene  
Concen: 2.025 ppbv  
RT: 9.879 min Scan# 3025  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Instrument : MSVOA\_1  
ClientSampleId : VSTDIC002

Tgt Ion:104 Resp: 4802  
Ion Ratio Lower Upper  
104 100  
78 53.4 40.6 61.0  
103 50.1 37.7 56.5

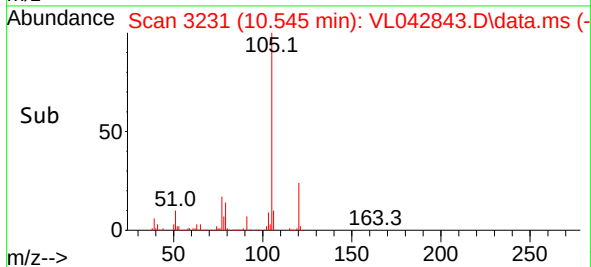
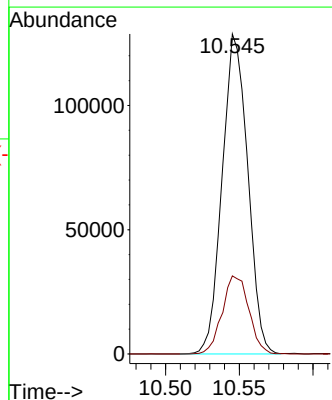
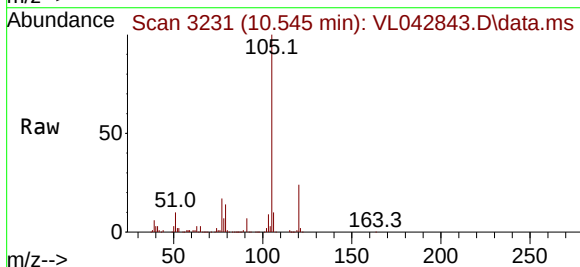
Manual Integrations  
APPROVED

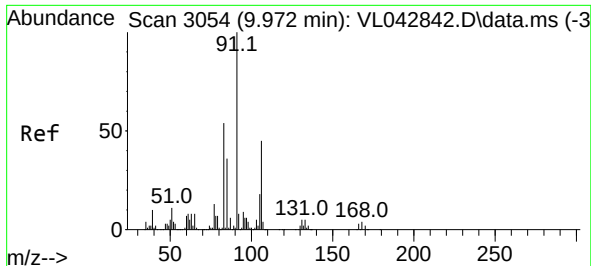
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#62  
Isopropylbenzene  
Concen: 2.098 ppbv  
RT: 10.545 min Scan# 3231  
Delta R.T. -0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

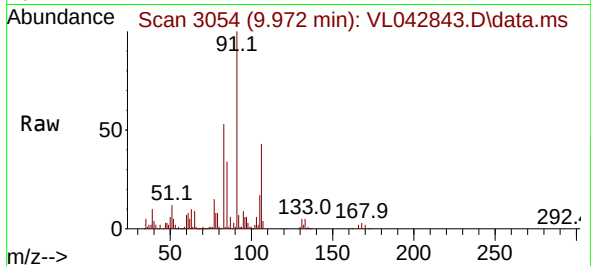
Tgt Ion:105 Resp: 155223  
Ion Ratio Lower Upper  
105 100  
120 25.5 20.6 30.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 2.031 ppbv  
RT: 9.972 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

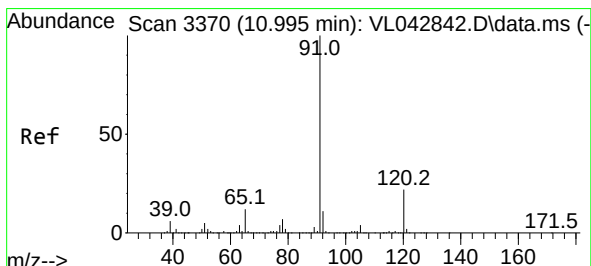
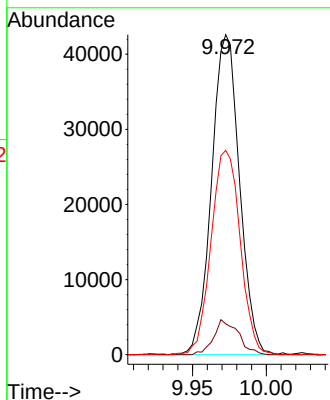
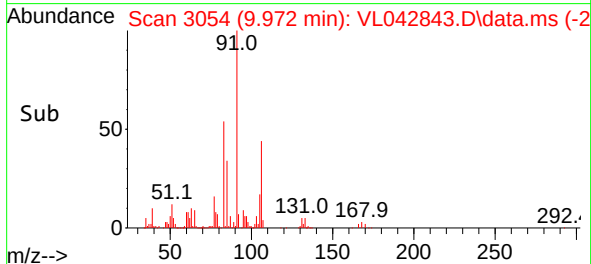
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



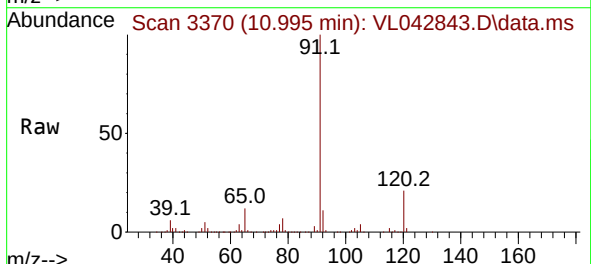
Tgt Ion: 83 Resp: 56139  
Ion Ratio Lower Upper  
83 100  
131 9.7 4.8 14.3  
85 66.5 32.3 96.8

Manual Integrations  
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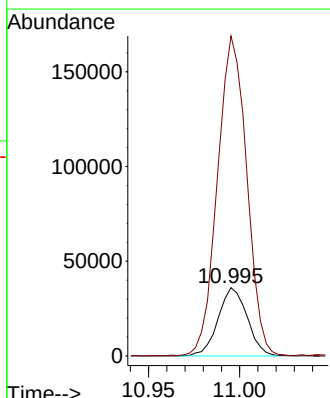
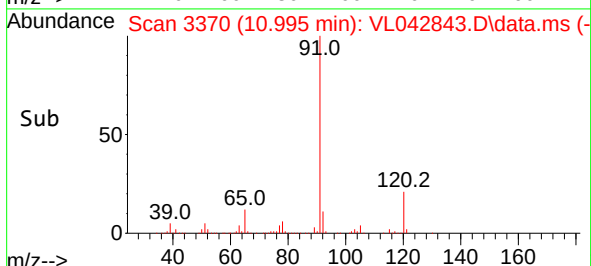
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

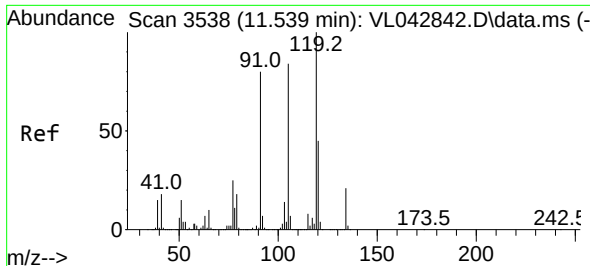


#64  
n-propylbenzene  
Concen: 2.115 ppbv  
RT: 10.995 min Scan# 3370  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



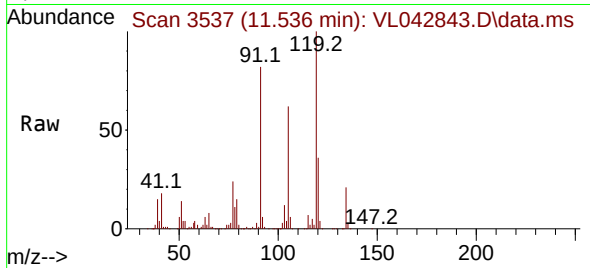
Tgt Ion:120 Resp: 39922  
Ion Ratio Lower Upper  
120 100  
91 476.7 375.8 563.6





#65  
tert-Butylbenzene  
Concen: 2.132 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. -0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

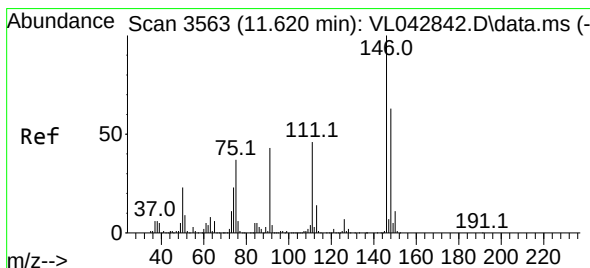
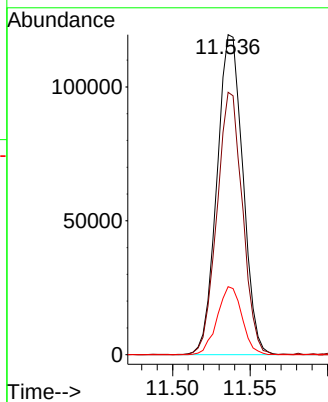
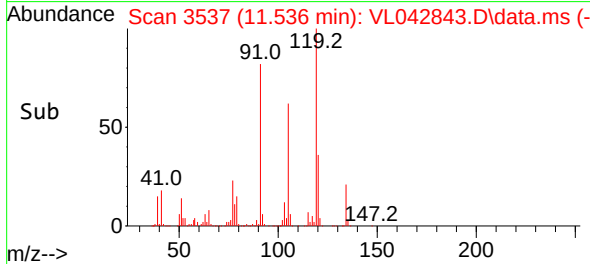
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



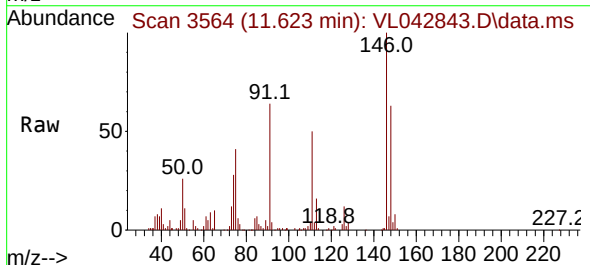
Tgt Ion: 119 Resp: 139019  
Ion Ratio Lower Upper  
119 100  
91 80.9 63.9 95.9  
134 20.3 17.0 25.4

Manual Integrations  
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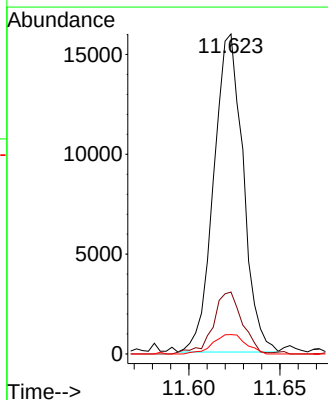
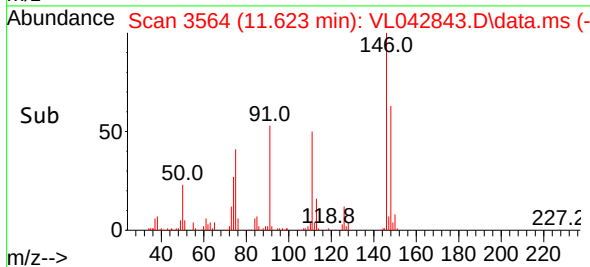
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

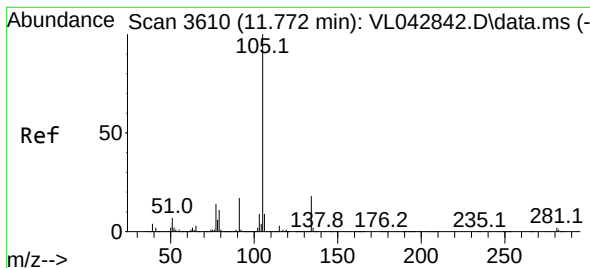


#66  
Benzyl Chloride  
Concen: 2.161 ppbv  
RT: 11.623 min Scan# 3564  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



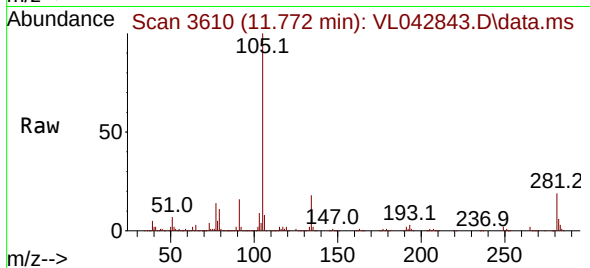
Tgt Ion: 91 Resp: 17893  
Ion Ratio Lower Upper  
91 100  
126 19.5 14.2 21.4  
128 6.9 5.0 7.6





#67  
 sec-Butylbenzene  
 Concen: 2.151 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

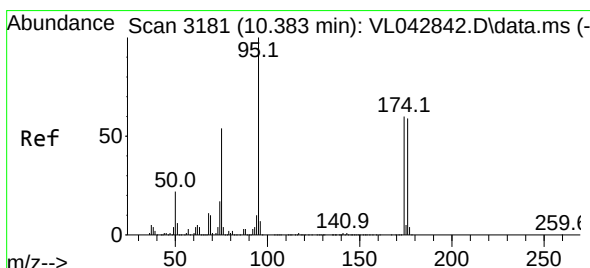
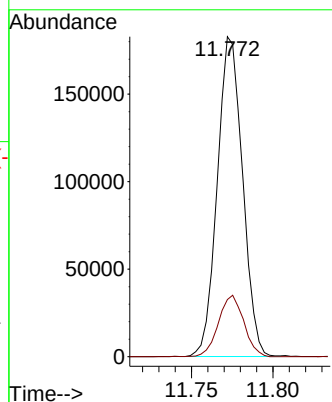
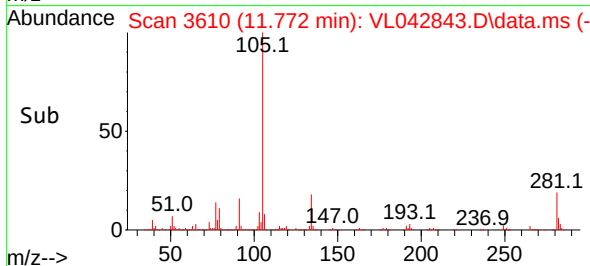
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



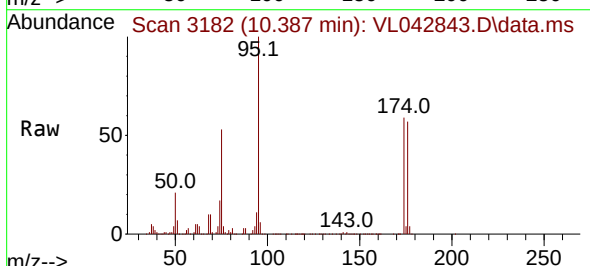
Tgt Ion:105 Resp: 196899  
 Ion Ratio Lower Upper  
 105 100  
 134 19.3 14.9 22.3

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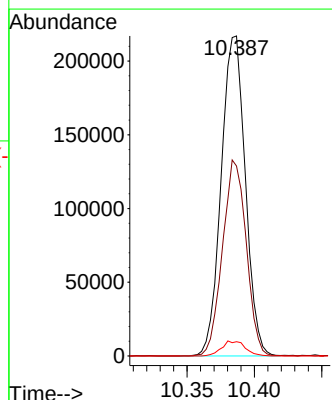
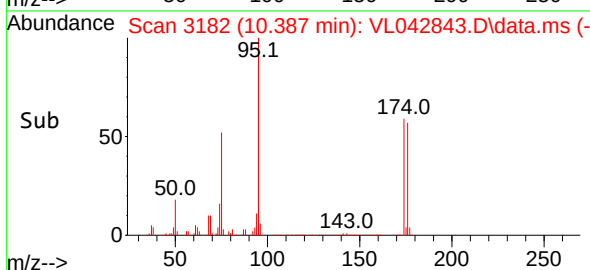
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

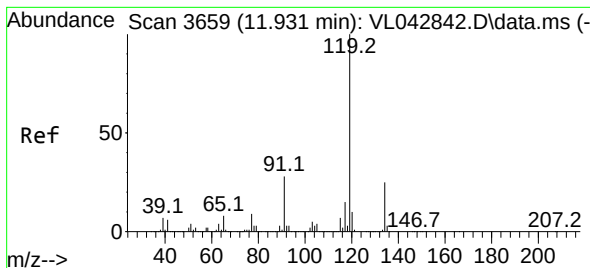


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.923 ppbv  
 RT: 10.387 min Scan# 3182  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06



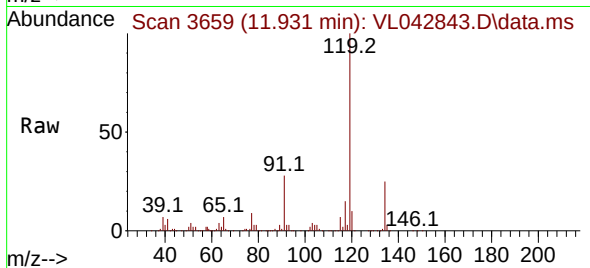
Tgt Ion: 95 Resp: 270774  
 Ion Ratio Lower Upper  
 95 100  
 174 60.2 48.4 72.6  
 175 4.6 3.8 5.8





#69  
 p-Isopropyltoluene  
 Concen: 2.156 ppbv  
 RT: 11.931 min Scan# 3659  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

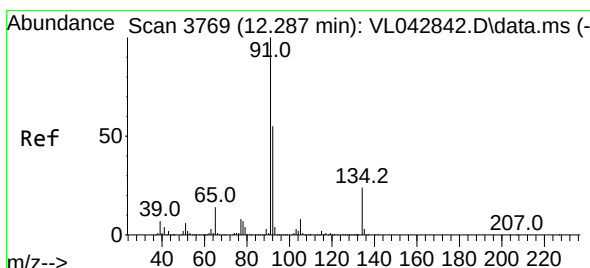
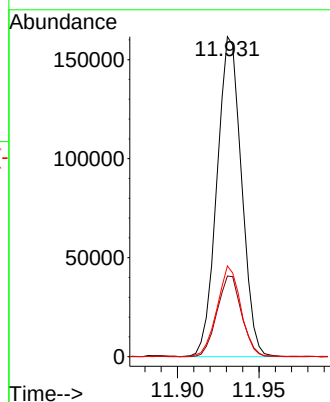
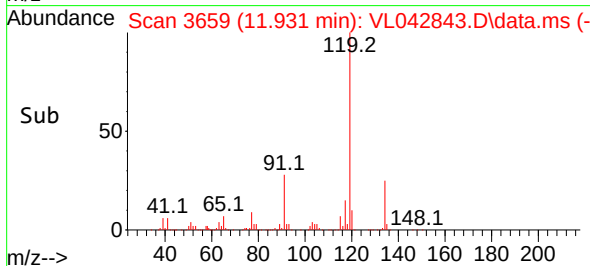
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002



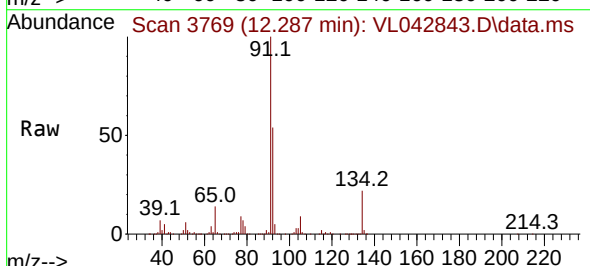
Tgt Ion: 119 Resp: 169429  
 Ion Ratio Lower Upper  
 119 100  
 134 25.3 20.6 30.8  
 91 27.4 22.6 34.0

Manual Integrations  
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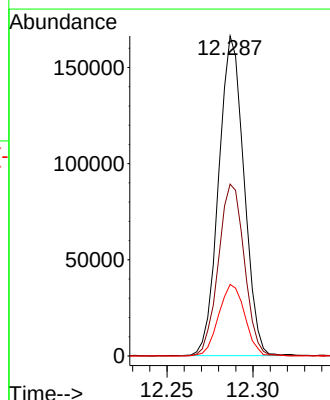
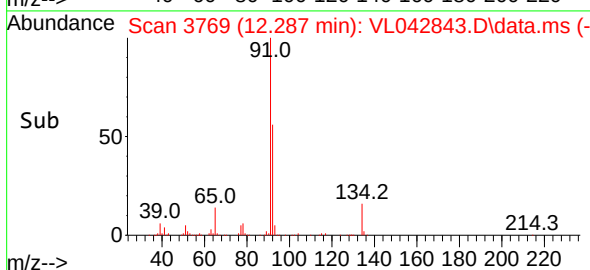
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



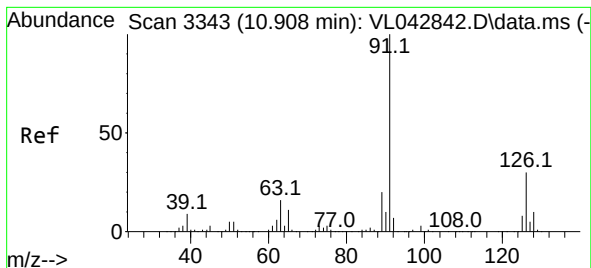
#70  
 n-Butylbenzene  
 Concen: 2.178 ppbv  
 RT: 12.287 min Scan# 3769  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06



Tgt Ion: 91 Resp: 169768  
 Ion Ratio Lower Upper  
 91 100  
 92 55.4 44.6 66.8  
 134 23.3 19.0 28.4

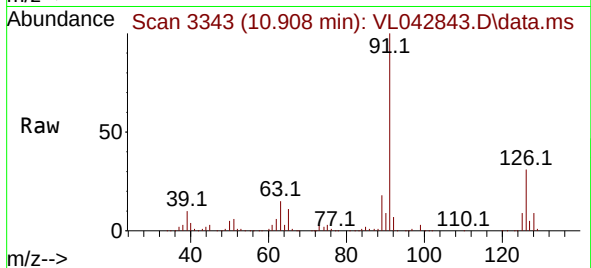






#71  
2-Chlorotoluene  
Concen: 2.078 ppbv  
RT: 10.908 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

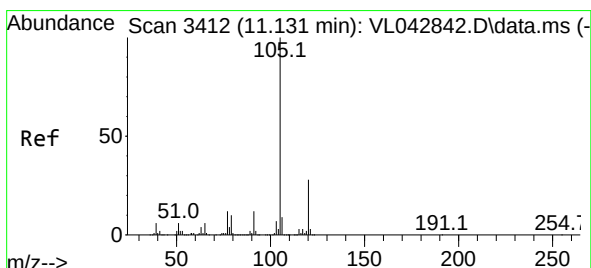
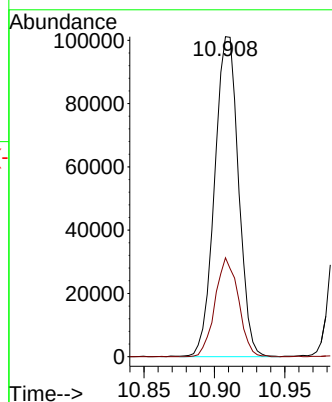
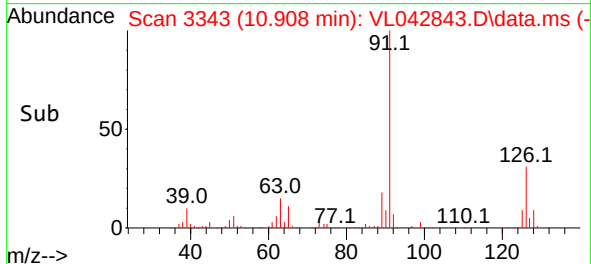
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002



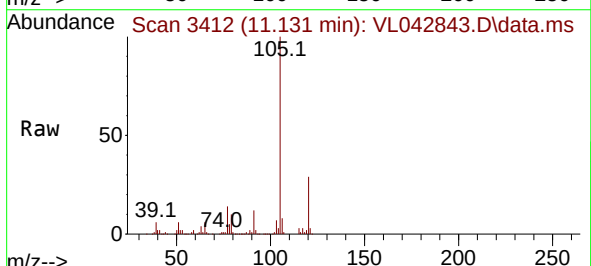
Tgt Ion: 91 Resp: 11938  
Ion Ratio Lower Upper  
91 100  
126 30.2 12.0 47.8

Manual Integrations  
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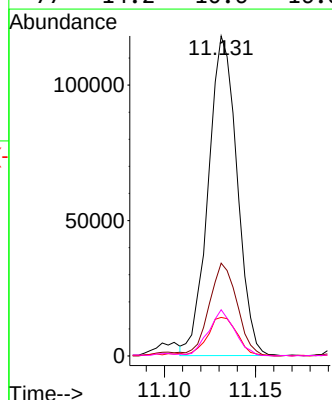
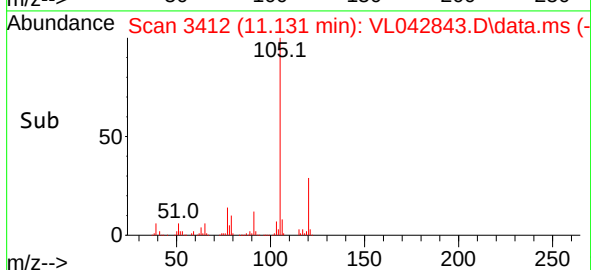
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

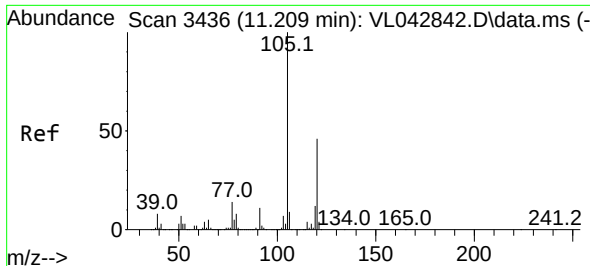


#72  
4-Ethyltoluene  
Concen: 2.115 ppbv  
RT: 11.131 min Scan# 3412  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



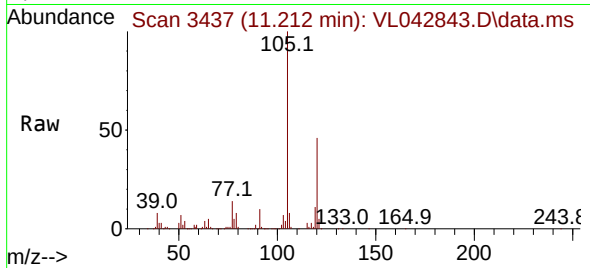
Tgt Ion:105 Resp: 129786  
Ion Ratio Lower Upper  
105 100  
120 29.4 23.4 35.2  
91 13.3 9.8 14.6  
77 14.2 10.6 16.0





#73  
1,3,5-Trimethylbenzene  
Concen: 2.109 ppbv  
RT: 11.212 min Scan# 3437  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

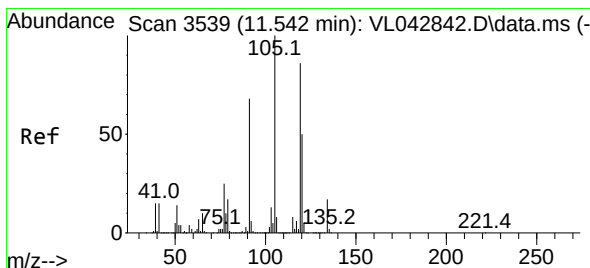
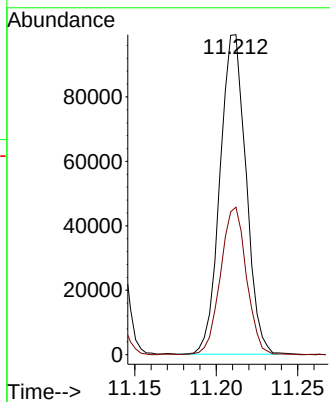
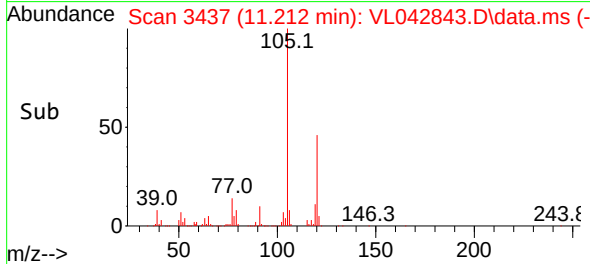
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



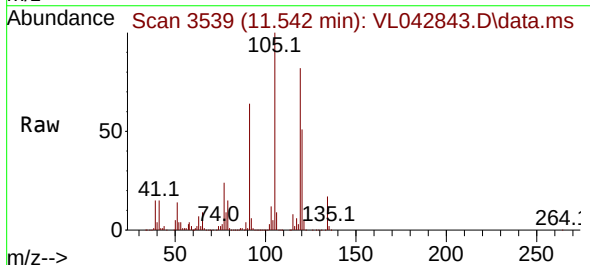
Tgt Ion:105 Resp: 11004  
Ion Ratio Lower Upper  
105 100  
120 46.1 36.6 54.8

Manual Integrations  
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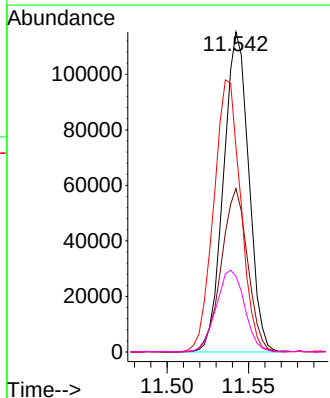
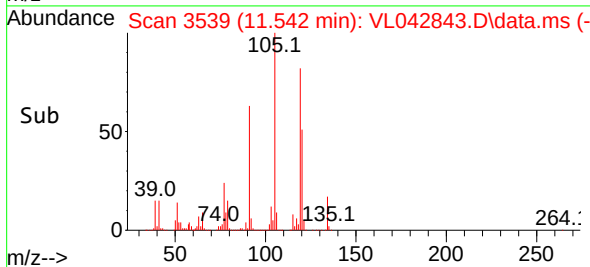
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

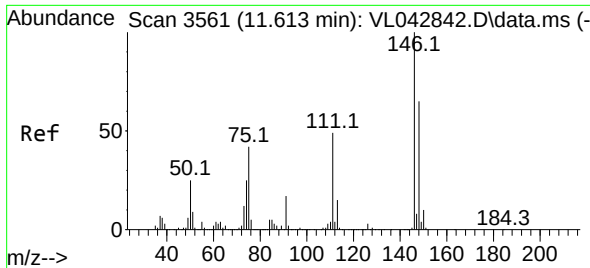


#74  
1,2,4-Trimethylbenzene  
Concen: 2.157 ppbv  
RT: 11.542 min Scan# 3539  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



Tgt Ion:105 Resp: 123554  
Ion Ratio Lower Upper  
105 100  
120 51.0 39.8 59.6  
91 63.9 54.2 81.4  
77 23.7 19.8 29.6





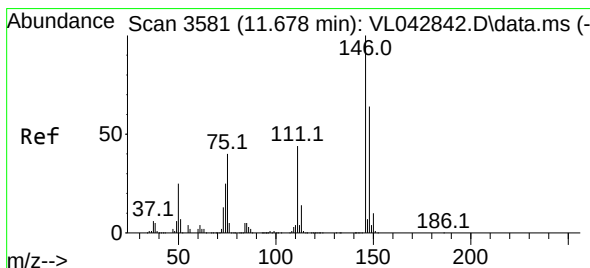
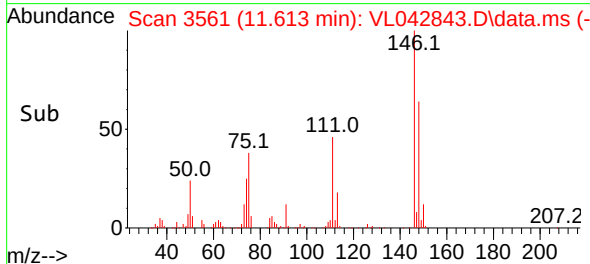
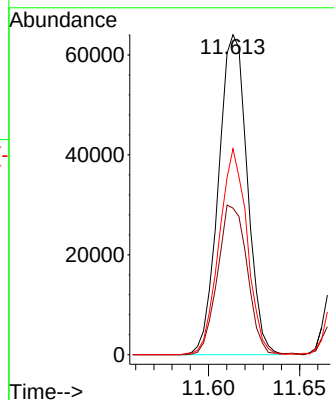
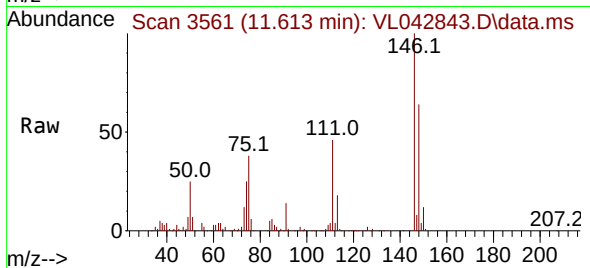
#75  
1,3-Dichlorobenzene  
Concen: 2.160 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002

Tgt Ion:146 Resp: 70330  
Ion Ratio Lower Upper  
146 100  
111 48.0 23.9 71.7  
148 62.5 31.4 94.0

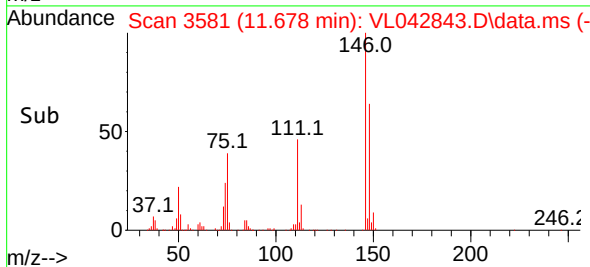
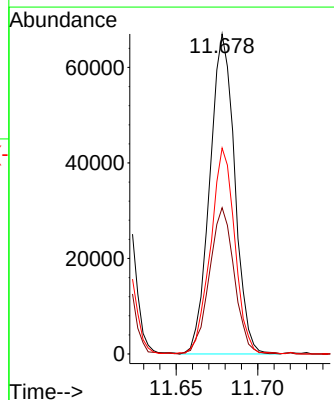
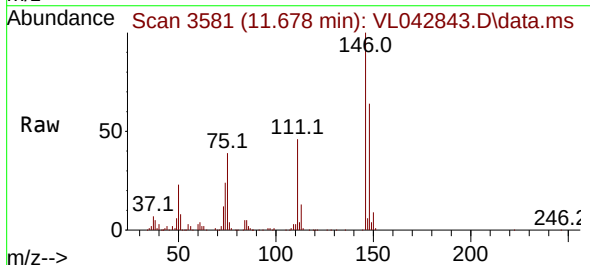
Manual Integrations  
APPROVED

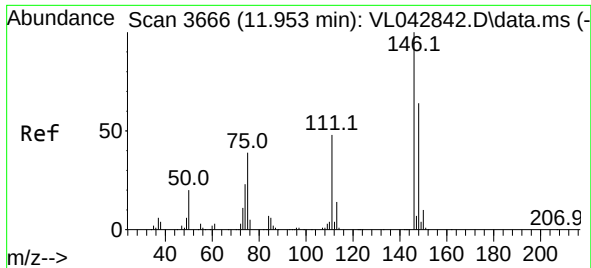
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#76  
1,4-Dichlorobenzene  
Concen: 2.161 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion:146 Resp: 71160  
Ion Ratio Lower Upper  
146 100  
111 45.7 22.7 68.1  
148 62.9 31.8 95.3





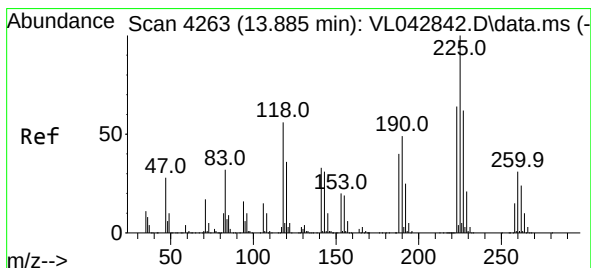
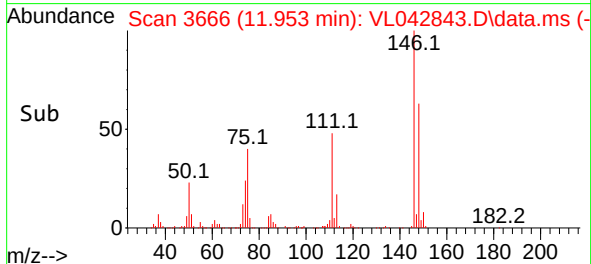
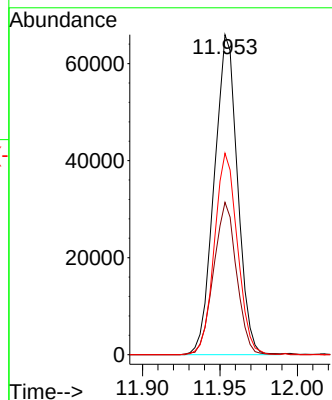
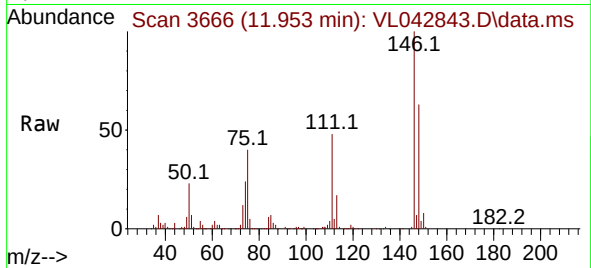
#77  
1,2-Dichlorobenzene  
Concen: 2.162 ppbv  
RT: 11.953 min Scan# 3666  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion:146 Resp: 6894  
Ion Ratio Lower Upper  
146 100  
111 47.1 24.6 74.0  
148 62.5 32.0 96.0

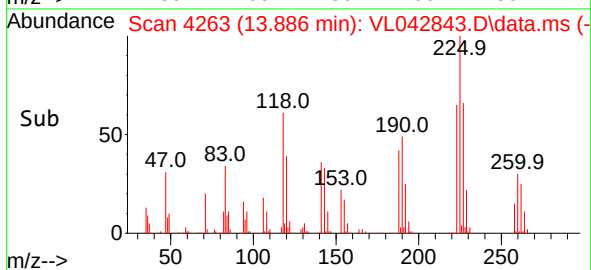
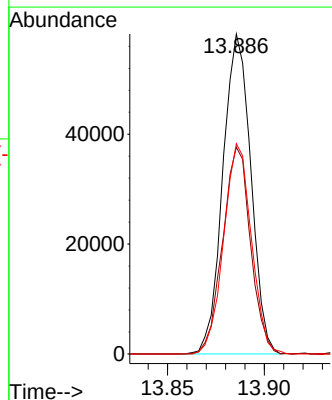
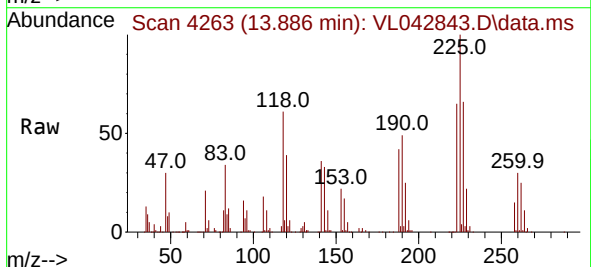
Manual Integrations  
APPROVED

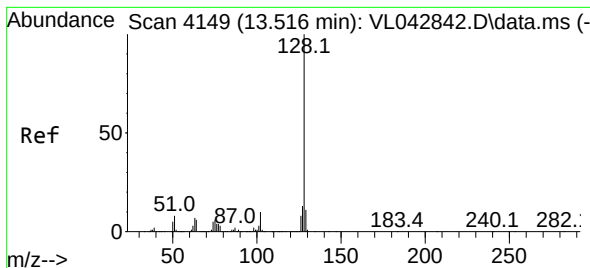
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#78  
Hexachloro-1,3-Butadiene  
Concen: 2.239 ppbv  
RT: 13.886 min Scan# 4263  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

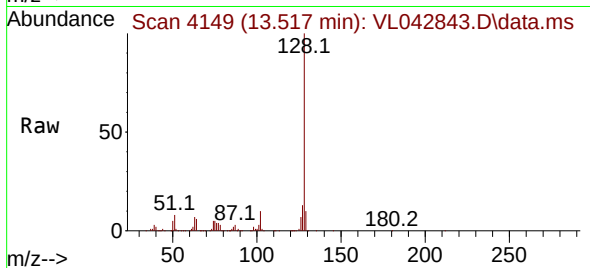
Tgt Ion:225 Resp: 58509  
Ion Ratio Lower Upper  
225 100  
223 64.5 51.4 77.2  
227 65.2 51.9 77.9





#79  
Naphthalene  
Concen: 2.478 ppbv  
RT: 13.517 min Scan# 4149  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

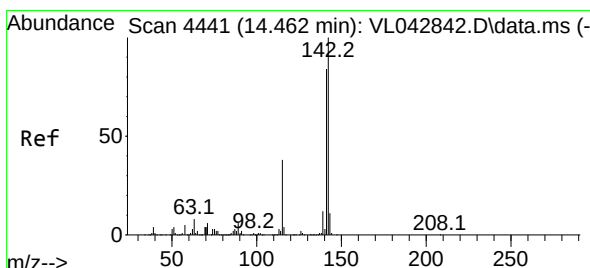
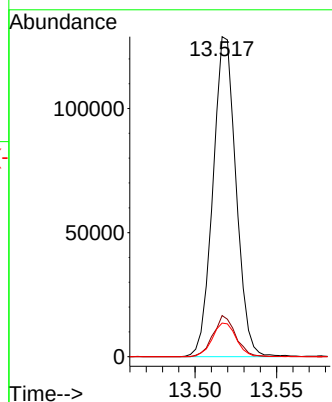
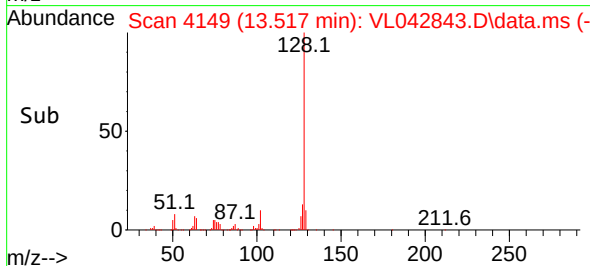
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC002



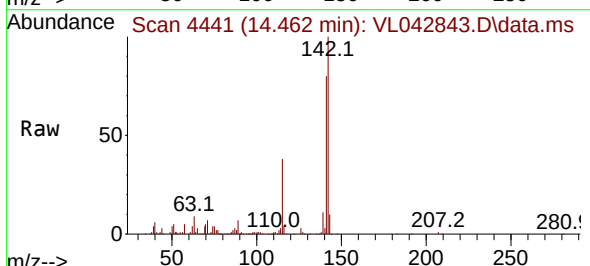
Tgt Ion:128 Resp: 127025  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.6 16.0  
129 10.5 8.9 13.3

Manual Integrations  
APPROVED

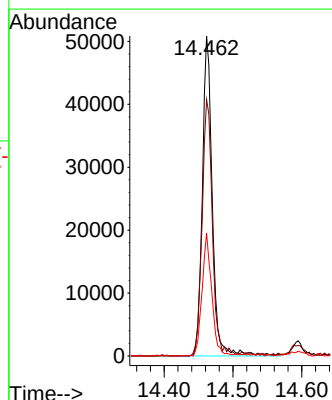
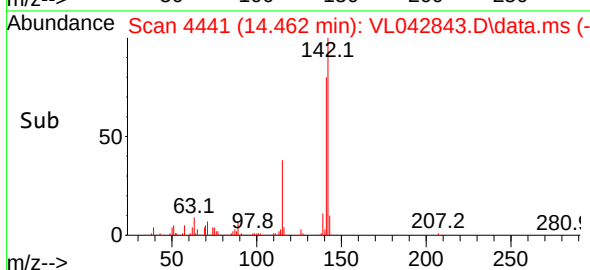
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

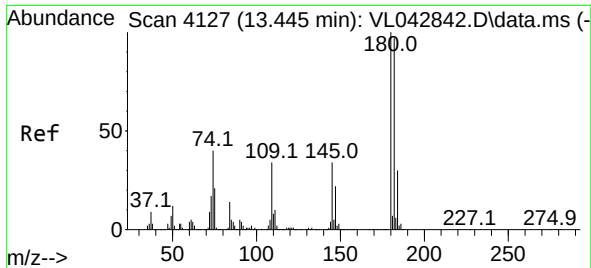


#80  
Naphthalene,2-methyl-  
Concen: 2.670 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06



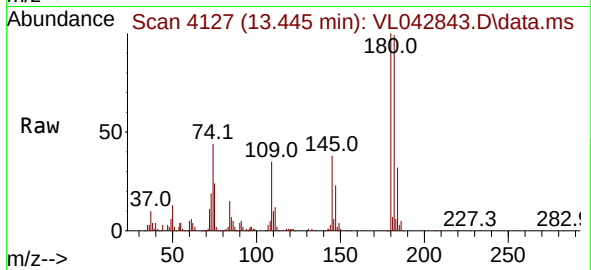
Tgt Ion:142 Resp: 51541  
Ion Ratio Lower Upper  
142 100  
141 83.9 67.0 100.6  
115 37.8 30.9 46.3





#81  
 1,2,4-Trichlorobenzene  
 Concen: 2.384 ppbv  
 RT: 13.445 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

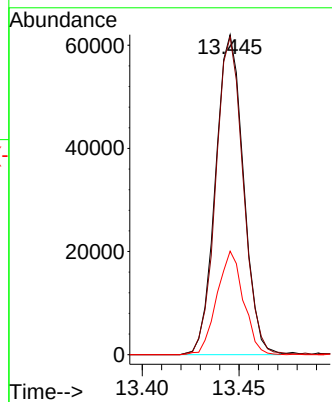
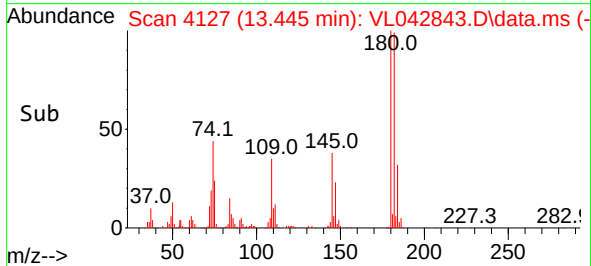
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



Tgt Ion:180 Resp: 62210  
 Ion Ratio Lower Upper  
 180 100  
 182 98.0 76.9 115.3  
 184 30.8 24.5 36.7

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042844.D  
 Acq On : 13 Aug 2025 09:41  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 01:47:28 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025  
 Supervised By : Mahesh Dadoda 08/18/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.791 | 49   | 128542   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 400305   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 349577   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 265708   | 10.135   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.300% |

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 19603  | 1.041 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 20833  | 0.999 | ppbv   | 93     |
| 4) Chloromethane              | 1.535 | 50  | 7948   | 1.045 | ppbv   | 96     |
| 5) Vinyl Chloride             | 1.583 | 62  | 7189   | 0.960 | ppbv   | 96     |
| 6) Bromomethane               | 1.667 | 94  | 3446   | 1.151 | ppbv   | 84     |
| 7) Chloroethane               | 1.706 | 64  | 3089   | 1.056 | ppbv   | 93     |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 15872  | 1.030 | ppbv   | 100    |
| 9) Propene                    | 1.486 | 41  | 8897   | 0.989 | ppbv   | 89     |
| 10) Heptane                   | 4.985 | 43  | 25850m | 1.075 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 19701  | 1.060 | ppbv   | 96     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 15446  | 1.043 | ppbv   | 97     |
| 13) Ethanol                   | 1.722 | 45  | 883m   | 0.991 | ppbv   |        |
| 14) Bromoethene               | 1.784 | 108 | 5343   | 0.996 | ppbv # | 78     |
| 15) Acetone                   | 1.839 | 43  | 18961  | 1.115 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.609 | 39  | 8133   | 1.055 | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 21342  | 1.058 | ppbv # | 93     |
| 18) 1,1-Dichloroethene        | 2.040 | 96  | 6549   | 1.006 | ppbv   | 93     |
| 19) Isopropyl Alcohol         | 1.888 | 45  | 10893  | 1.073 | ppbv # | 39     |
| 20) Methylene Chloride        | 2.062 | 84  | 7661   | 1.076 | ppbv # | 90     |
| 21) Allyl Chloride            | 2.098 | 41  | 11598  | 0.966 | ppbv   | 88     |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 7882m  | 1.082 | ppbv   |        |
| 23) Vinyl Acetate             | 2.467 | 43  | 22270  | 0.996 | ppbv # | 96     |
| 24) 1,1-Dichloroethane        | 2.412 | 63  | 15727  | 1.045 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.842 | 43  | 43007  | 1.045 | ppbv   | 98     |
| 26) Hexane                    | 2.829 | 57  | 19944  | 1.050 | ppbv   | 92     |
| 27) Carbon Disulfide          | 2.153 | 76  | 19450  | 1.052 | ppbv # | 2      |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 9600   | 0.991 | ppbv # | 88     |
| 29) Chloroform                | 2.852 | 83  | 28055  | 1.034 | ppbv   | 97     |
| 30) Cyclohexane               | 3.865 | 84  | 16492  | 0.990 | ppbv   | 90     |
| 31) cis-1,2-Dichloroethene    | 2.723 | 61  | 19591  | 1.031 | ppbv   | 98     |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 27607  | 0.961 | ppbv   | 97     |
| 34) 2-Butanone                | 2.564 | 43  | 28105  | 1.040 | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 28008  | 1.015 | ppbv   | 93     |
| 36) Benzene                   | 3.661 | 78  | 39137  | 1.021 | ppbv # | 94     |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 20645  | 1.031 | ppbv   | 97     |
| 38) Trichloroethene           | 4.555 | 130 | 17921  | 1.024 | ppbv # | 89     |
| 39) 1,2-Dichloropropane       | 4.325 | 63  | 14595m | 1.042 | ppbv   |        |
| 40) 1,4-Dioxane               | 4.603 | 88  | 7386m  | 1.127 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.062 | 42  | 15552  | 1.032 | ppbv   | 94     |
| 42) Bromodichloromethane      | 4.499 | 83  | 29683  | 0.995 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.885 | 69  | 16073m | 1.022 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane    | 4.645 | 57  | 68813m | 1.069 | ppbv   |        |
| 45) t-1,3-Dichloropropene     | 6.419 | 75  | 18580m | 1.042 | ppbv   |        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042844.D  
 Acq On : 13 Aug 2025 09:41  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:47:28 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

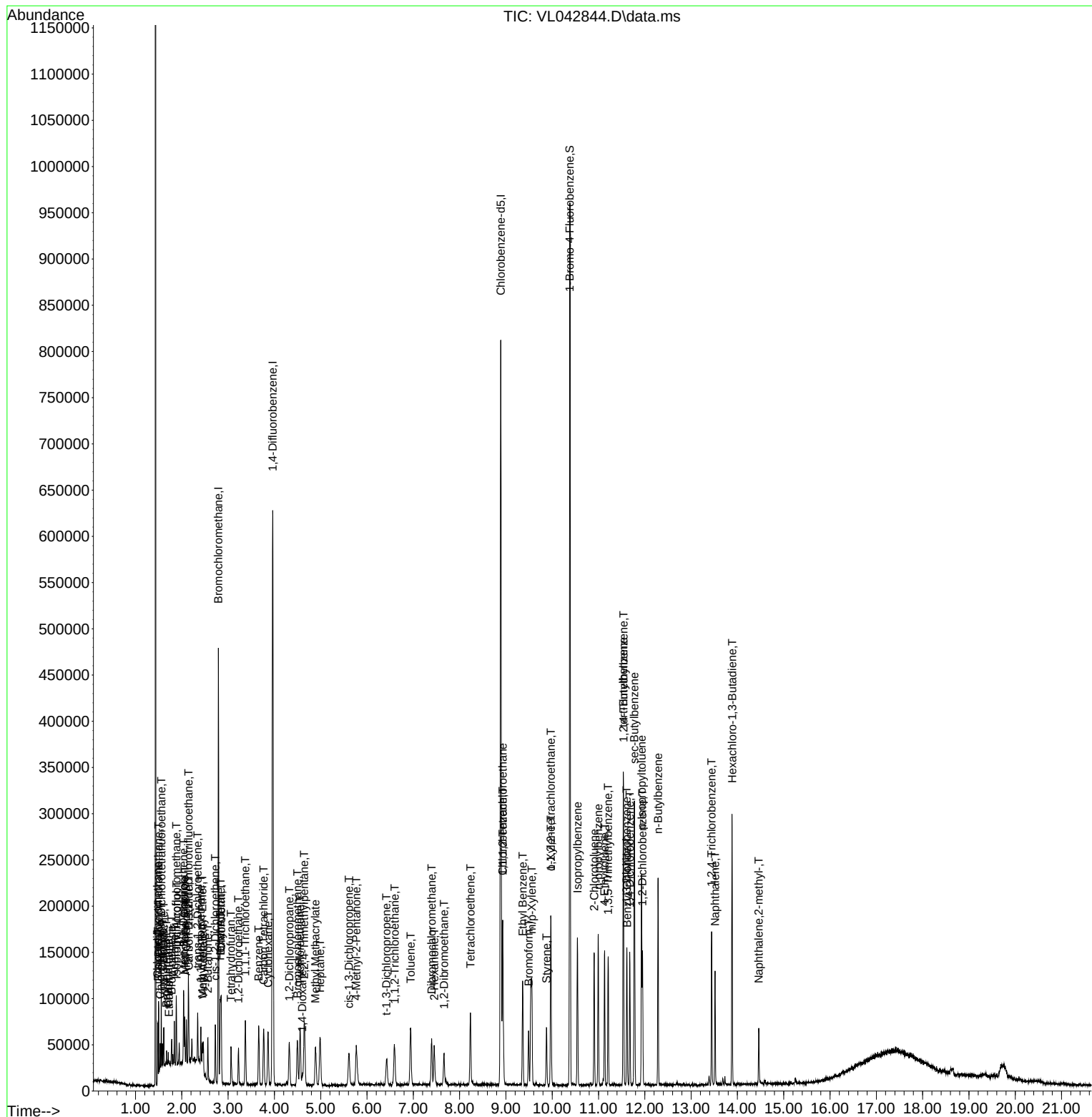
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.610  | 75   | 22372    | 0.999 | ppbv   | 94       |
| 47) 1,1,2-Trichloroethane     | 6.597  | 97   | 15295    | 1.032 | ppbv   | 86       |
| 48) Dibromochloromethane      | 7.396  | 129  | 24214    | 1.009 | ppbv   | 99       |
| 49) Bromoform                 | 9.490  | 173  | 20579    | 1.040 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.768  | 43   | 36710    | 1.001 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.451  | 43   | 29487    | 1.026 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.235  | 164  | 13322    | 0.960 | ppbv   | 90       |
| 53) Toluene                   | 6.946  | 91   | 47256    | 1.036 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 21280    | 0.982 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 19176    | 1.061 | ppbv   | 96       |
| 57) Chlorobenzene             | 8.930  | 112  | 34617    | 1.041 | ppbv # | 91       |
| 58) Ethyl Benzene             | 9.361  | 91   | 65223    | 1.057 | ppbv   | 95       |
| 59) m/p-Xylene                | 9.558  | 91   | 101634m  | 2.098 | ppbv   |          |
| 60) o-Xylene                  | 9.969  | 91   | 51445    | 1.058 | ppbv   | 99       |
| 61) Styrene                   | 9.879  | 104  | 23660    | 1.038 | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.546 | 105  | 76708    | 1.079 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.969  | 83   | 27410    | 1.032 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.995 | 120  | 18462    | 1.018 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 69617    | 1.111 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.617 | 91   | 7900     | 0.993 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 96288    | 1.095 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 82934    | 1.098 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.287 | 91   | 80511    | 1.075 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 60086    | 1.089 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 63147    | 1.071 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 53676    | 1.070 | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 59633    | 1.083 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 33061    | 1.057 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 33064    | 1.045 | ppbv   | 96       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 33404    | 1.090 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 29555    | 1.177 | ppbv   | 95       |
| 79) Naphthalene               | 13.517 | 128  | 57580    | 1.169 | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 19375    | 1.045 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 27861    | 1.111 | ppbv   | 99       |

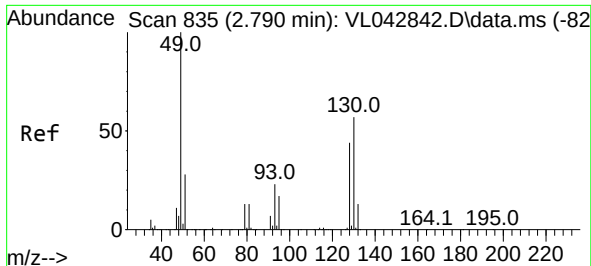
(#) = qualifier out of range (m) = manual integration (+) = signals summed



## Manual Integrations APPROVED

Quant Time: Aug 14 01:47:28 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug  
QLast Update : Thu Aug 14 01:44:36 2025  
Response via : Initial Calibration





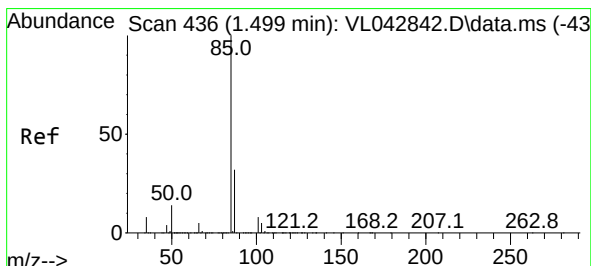
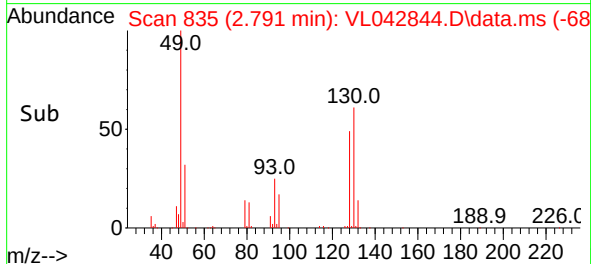
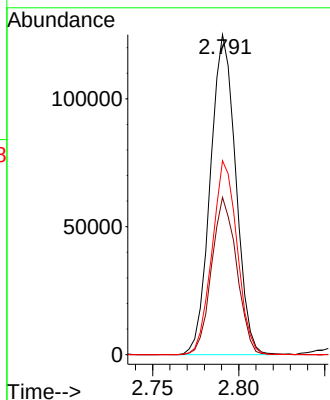
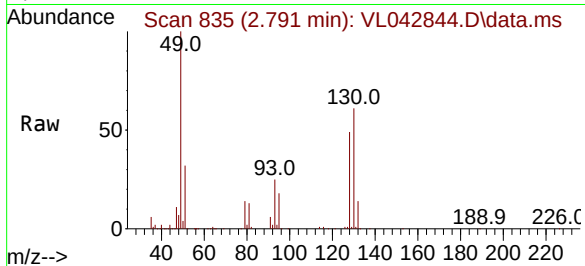
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.791 min Scan# 835  
Delta R.T. 0.001 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 49 Resp: 12854  
Ion Ratio Lower Upper  
49 100  
128 48.4 23.7 71.1  
130 59.9 30.6 91.6

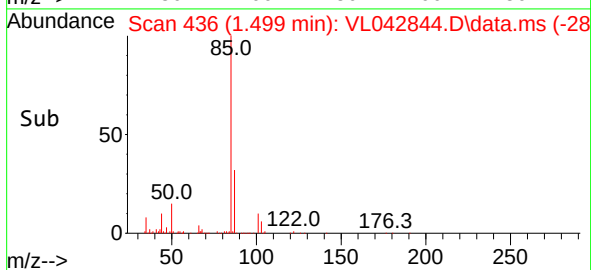
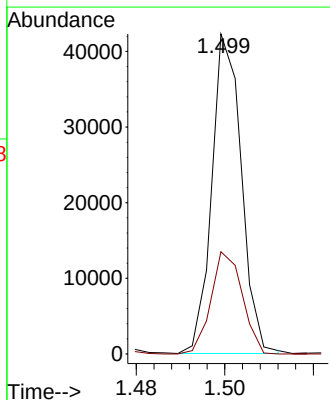
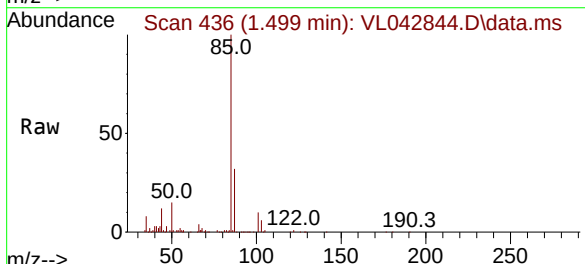
Manual Integrations  
APPROVED

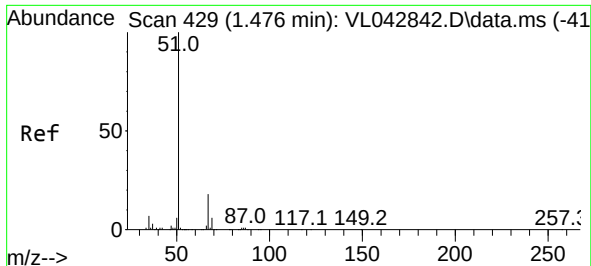
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#2  
Dichlorodifluoromethane  
Concen: 1.041 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

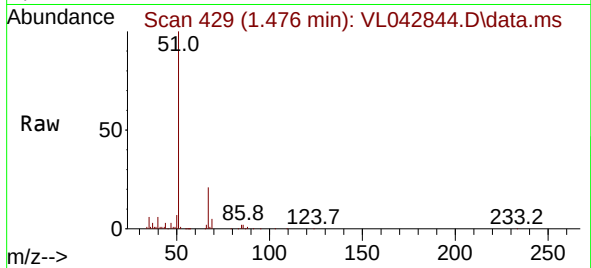
Tgt Ion: 85 Resp: 19603  
Ion Ratio Lower Upper  
85 100  
87 32.0 25.3 37.9





#3  
Chlorodifluoromethane  
Concen: 0.999 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

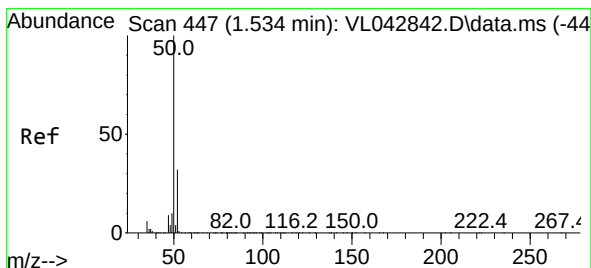
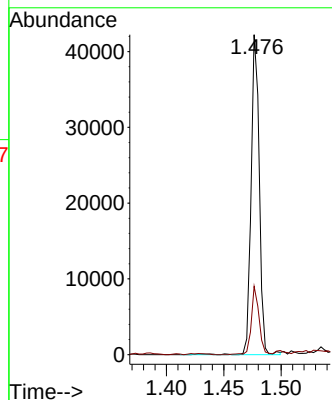
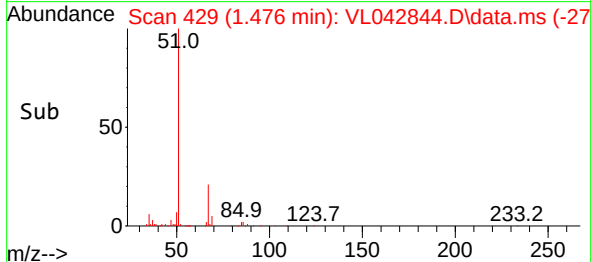
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



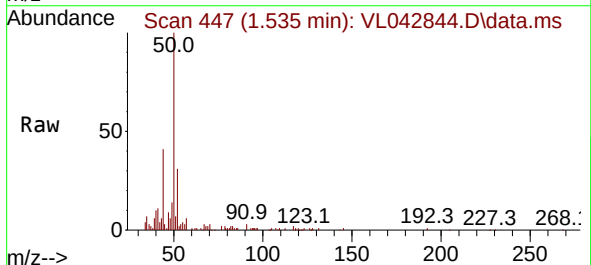
Tgt Ion: 51 Resp: 2083  
Ion Ratio Lower Upper  
51 100  
67 21.9 14.9 22.3

Manual Integrations  
APPROVED

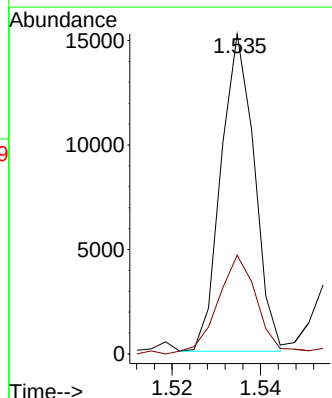
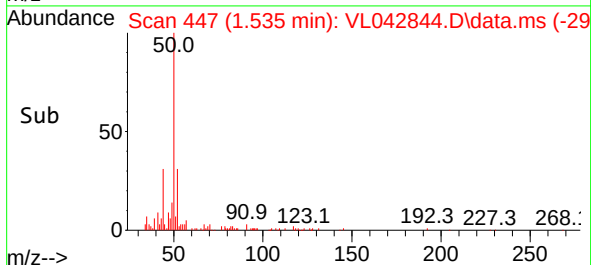
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

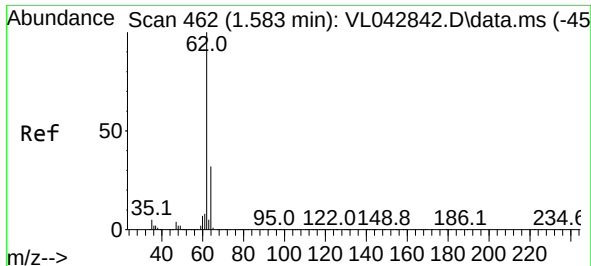


#4  
Chloromethane  
Concen: 1.045 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41



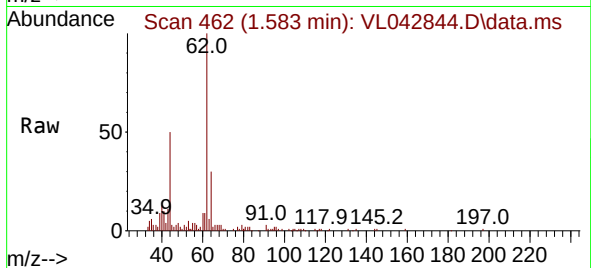
Tgt Ion: 50 Resp: 7948  
Ion Ratio Lower Upper  
50 100  
52 30.2 25.9 38.9





#5  
 Vinyl Chloride  
 Concen: 0.960 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

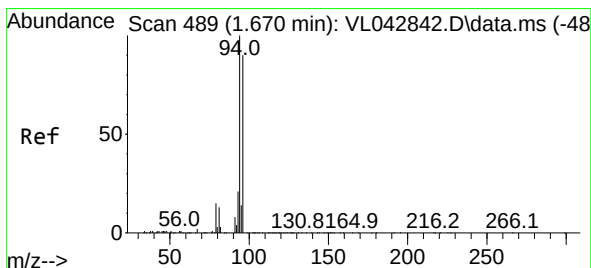
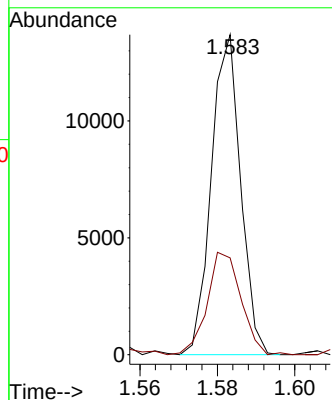
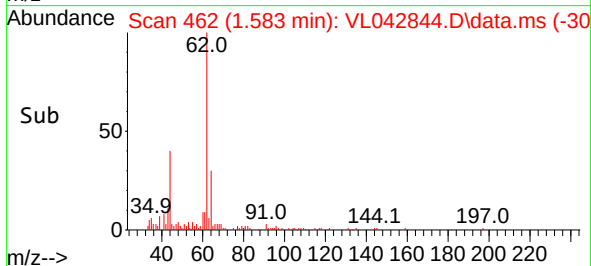
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



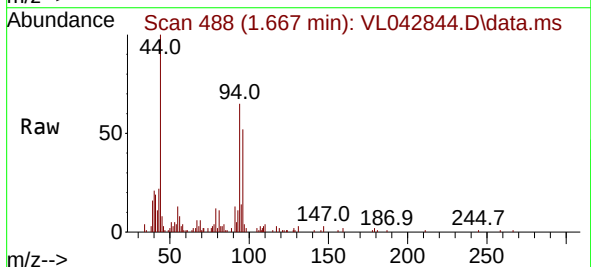
Tgt Ion: 62 Resp: 7189  
 Ion Ratio Lower Upper  
 62 100  
 64 29.7 25.4 38.2

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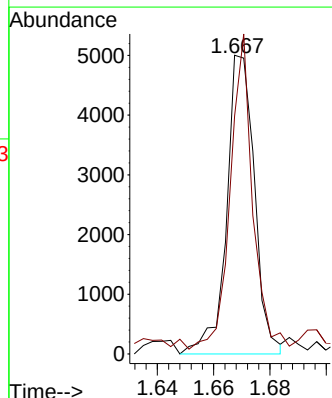
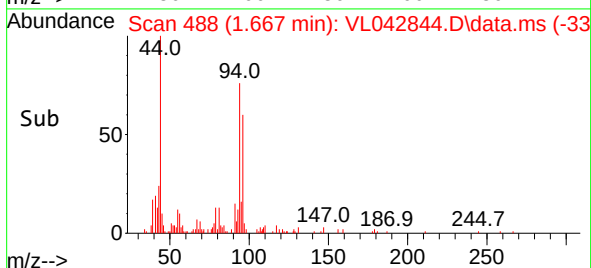
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

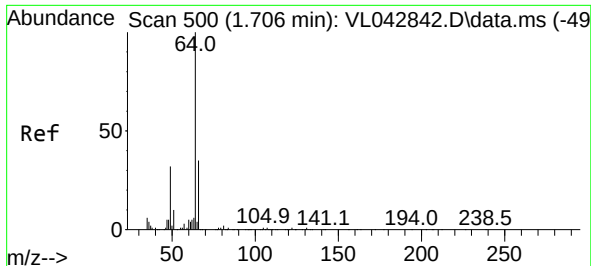


#6  
 Bromomethane  
 Concen: 1.151 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.003 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41



Tgt Ion: 94 Resp: 3446  
 Ion Ratio Lower Upper  
 94 100  
 96 74.7 72.1 108.1





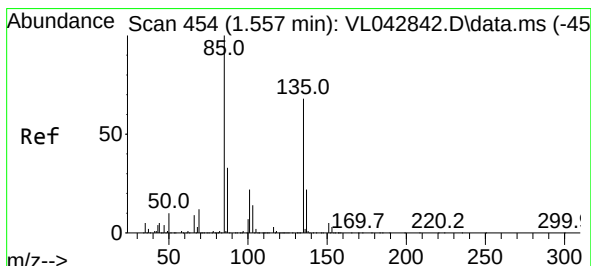
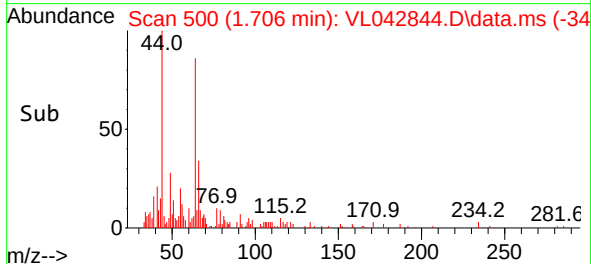
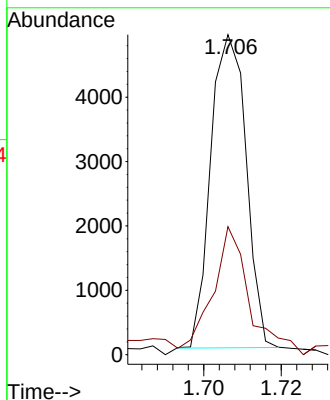
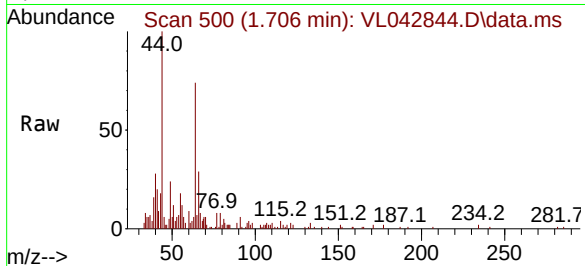
#7  
Chloroethane  
Concen: 1.056 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 64 Resp: 3089  
Ion Ratio Lower Upper  
64 100  
66 40.0 28.6 42.8

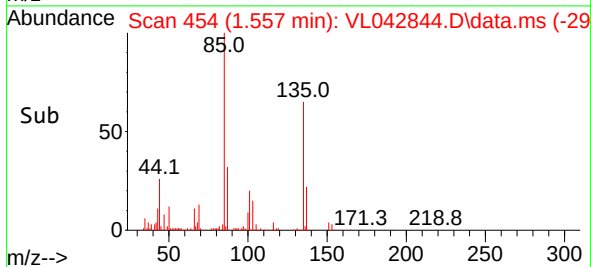
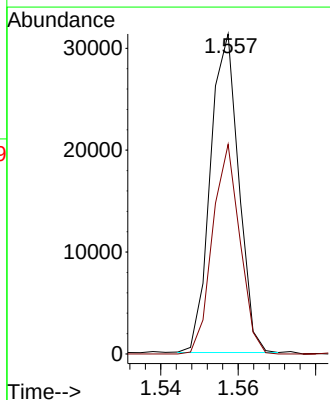
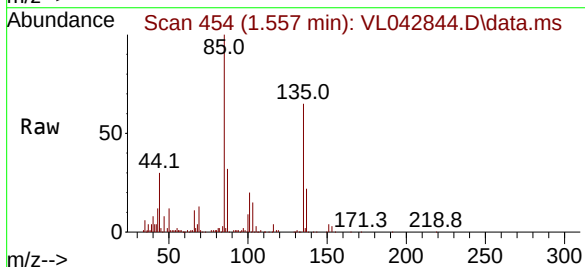
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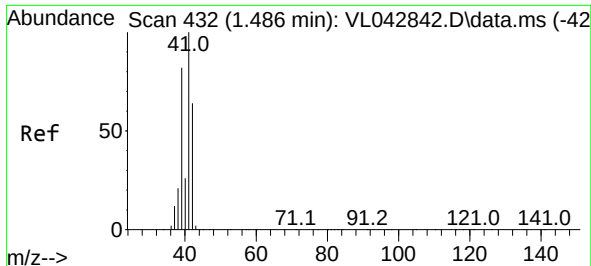
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#8  
Dichlorotetrafluoroethane  
Concen: 1.030 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 15872  
Ion Ratio Lower Upper  
85 100  
135 63.7 51.2 76.8





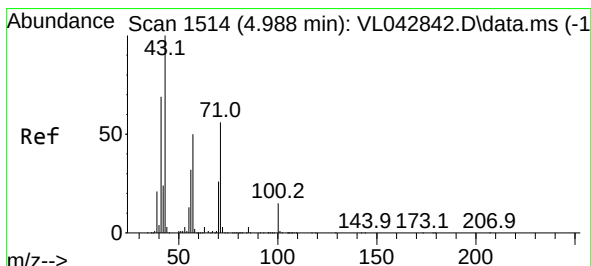
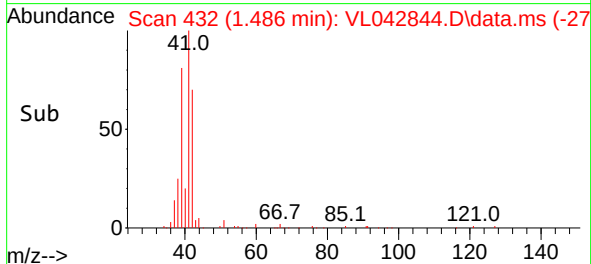
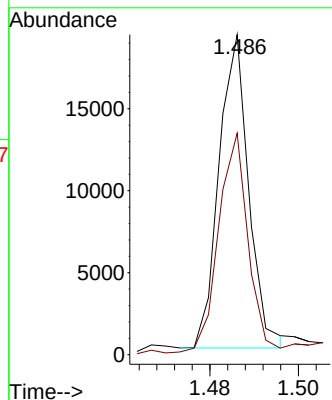
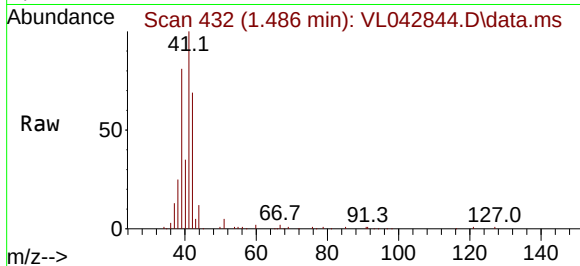
#9  
 Propene  
 Concen: 0.989 ppbv  
 RT: 1.486 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Tgt Ion: 41 Resp: 889  
 Ion Ratio Lower Upper  
 41 100  
 42 74.9 53.0 79.4

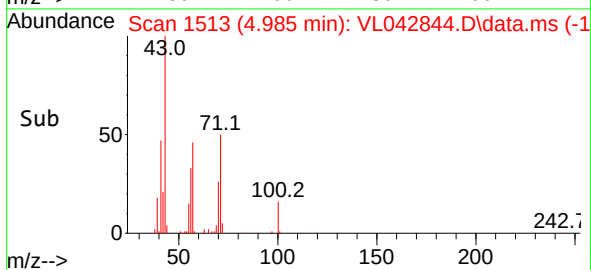
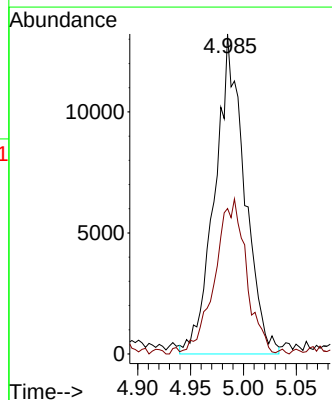
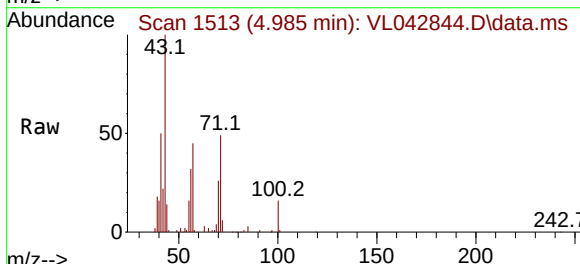
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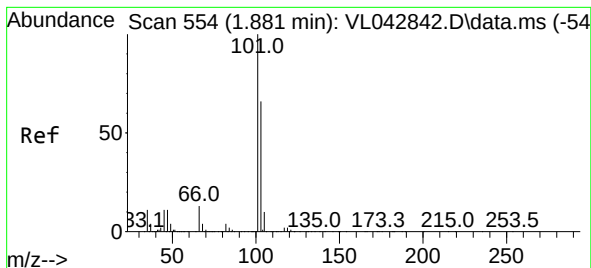
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



#10  
 Heptane  
 Concen: 1.075 ppbv m  
 RT: 4.985 min Scan# 1513  
 Delta R.T. -0.003 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 25850  
 Ion Ratio Lower Upper  
 43 100  
 57 52.0 41.4 62.0





#11

Trichlorofluoromethane

Concen: 1.060 ppbv

RT: 1.881 min Scan# 554

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

Tgt Ion:101 Resp: 1970

Ion Ratio Lower Upper

101 100

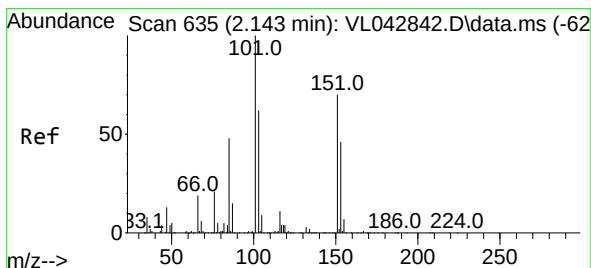
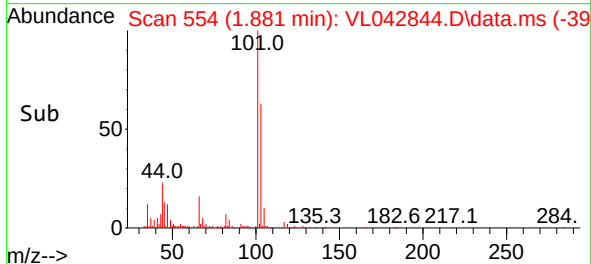
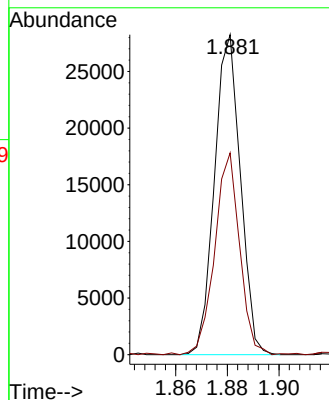
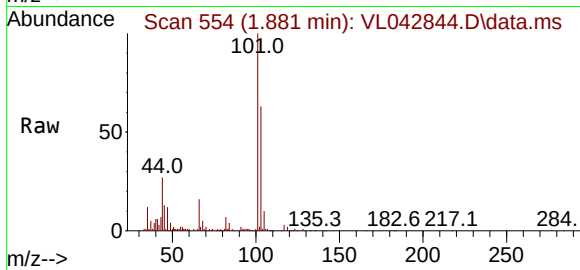
103 62.8 52.5 78.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#12

1,1,2-Trichlorotrifluoroethane

Concen: 1.043 ppbv

RT: 2.143 min Scan# 635

Delta R.T. 0.000 min

Lab File: VL042844.D

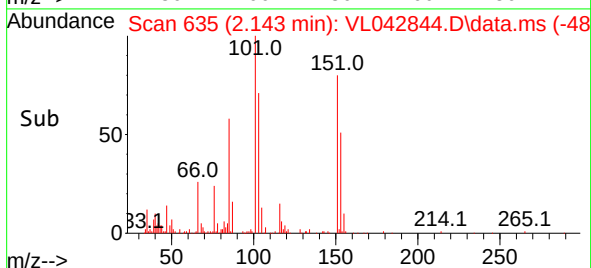
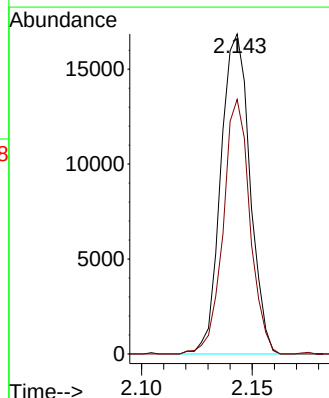
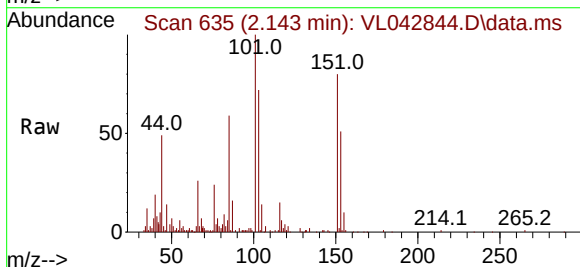
Acq: 13 Aug 2025 09:41

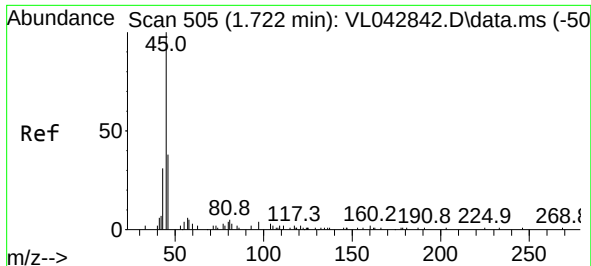
Tgt Ion:101 Resp: 15446

Ion Ratio Lower Upper

101 100

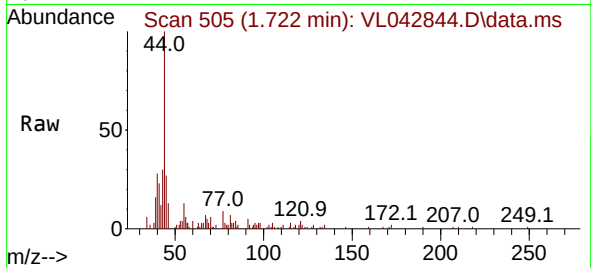
151 73.2 56.4 84.6





#13  
Ethanol  
Concen: 0.991 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

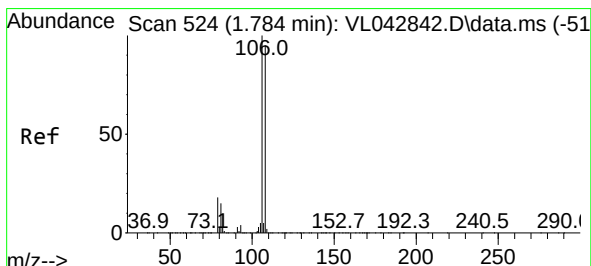
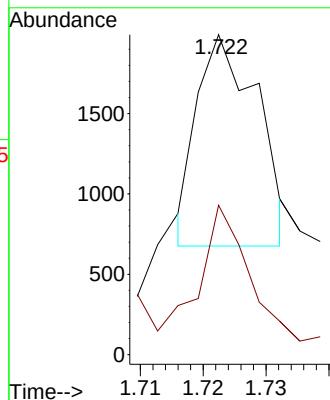
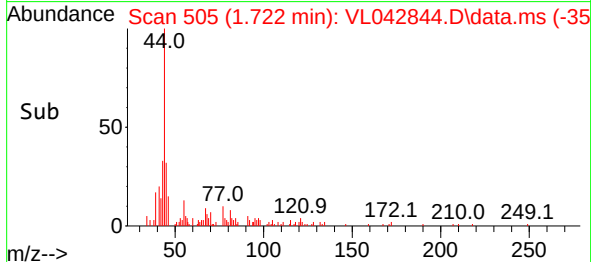
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



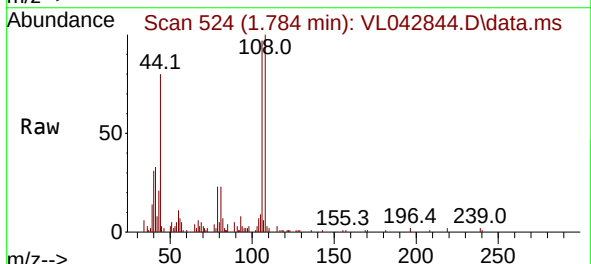
Tgt Ion: 45 Resp: 88  
Ion Ratio Lower Upper  
45 100  
46 92.1 17.5 69.9

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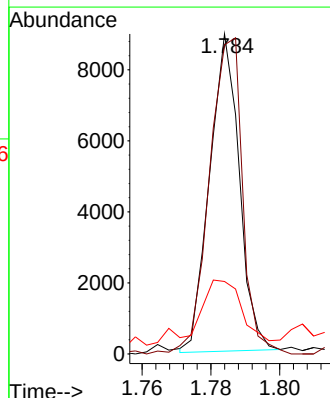
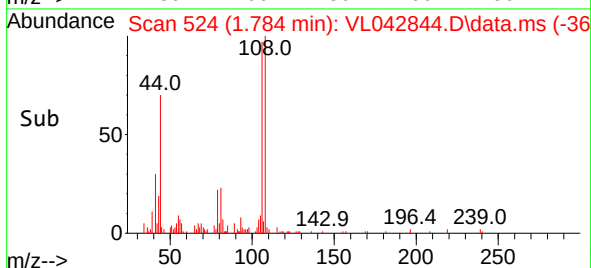
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



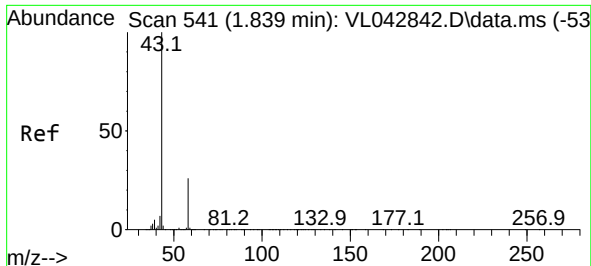
#14  
Bromoethene  
Concen: 0.996 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41



Tgt Ion:108 Resp: 5343  
Ion Ratio Lower Upper  
108 100  
106 117.1 85.1 127.7  
79 58.9 16.3 24.5

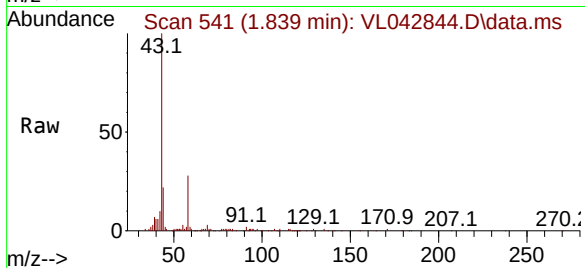






#15  
Acetone  
Concen: 1.115 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

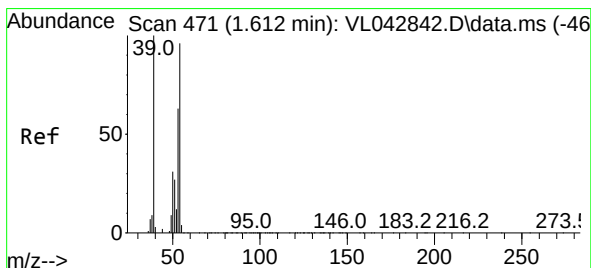
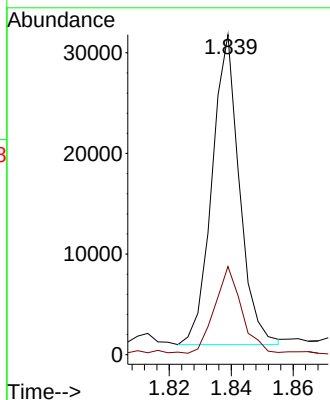
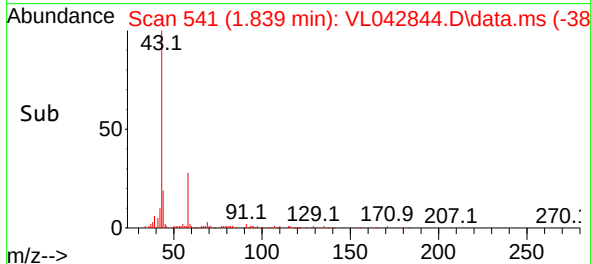
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



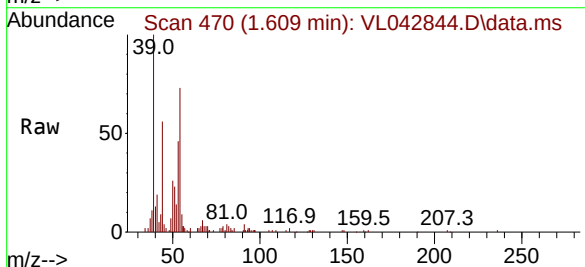
Tgt Ion: 43 Resp: 1896  
Ion Ratio Lower Upper  
43 100  
58 29.1 22.4 33.6

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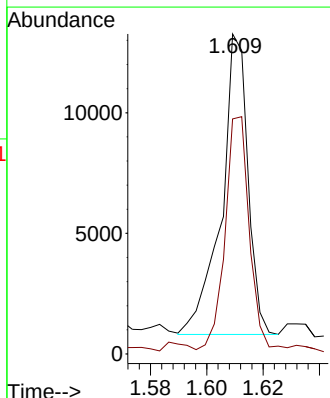
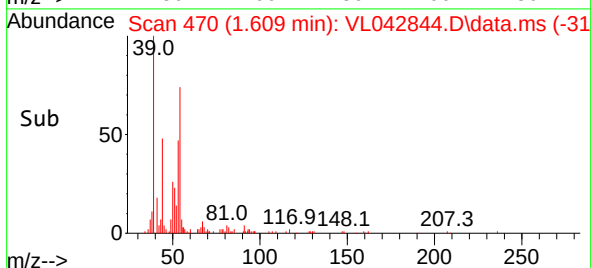
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

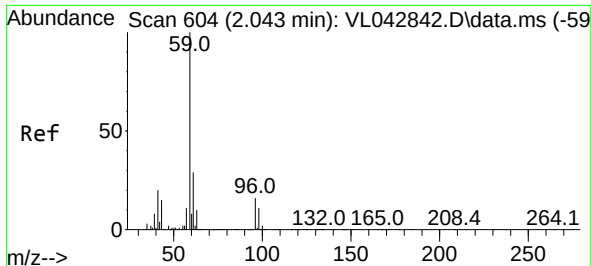


#16  
1,3-Butadiene  
Concen: 1.055 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41



Tgt Ion: 39 Resp: 8133  
Ion Ratio Lower Upper  
39 100  
54 78.0 63.6 95.4





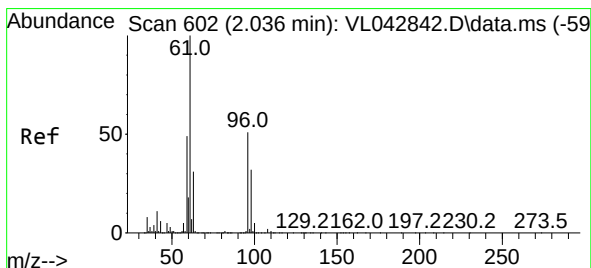
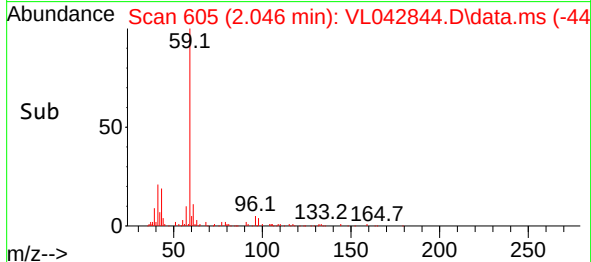
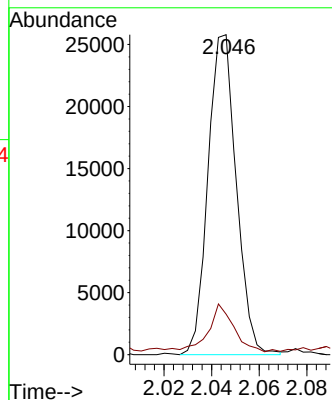
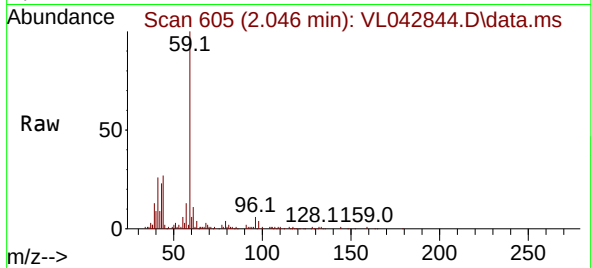
#17  
tert-Butyl alcohol  
Concen: 1.058 ppbv  
RT: 2.046 min Scan# 604  
Delta R.T. 0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC001

Tgt Ion: 59 Resp: 2134  
Ion Ratio Lower Upper  
59 100  
57 13.7 9.0 13.4

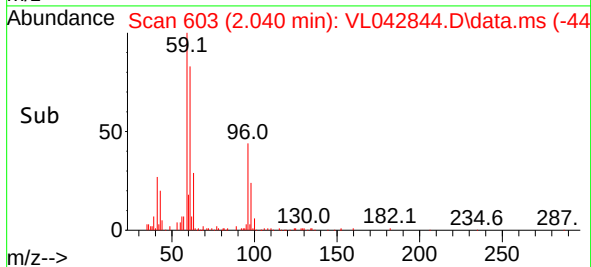
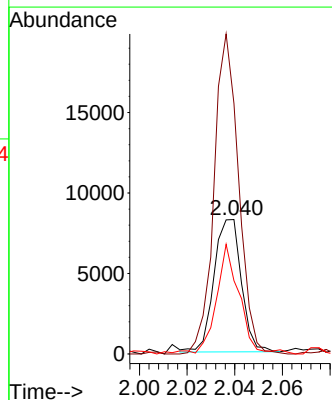
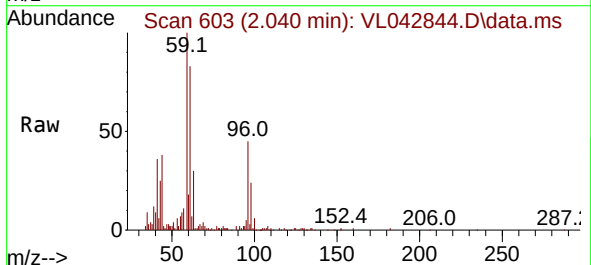
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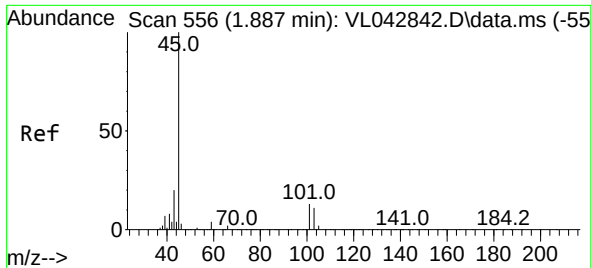
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#18  
1,1-Dichloroethene  
Concen: 1.006 ppbv  
RT: 2.040 min Scan# 603  
Delta R.T. 0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 96 Resp: 6549  
Ion Ratio Lower Upper  
96 100  
61 189.6 158.2 237.4  
98 53.1 50.6 76.0





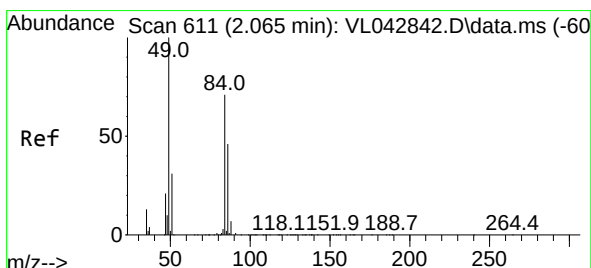
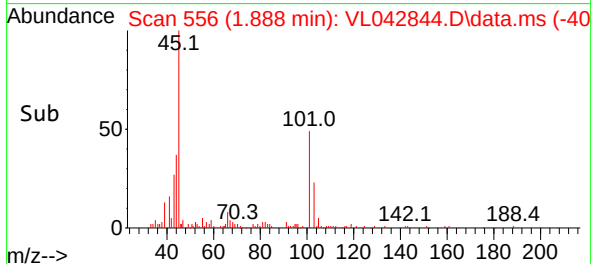
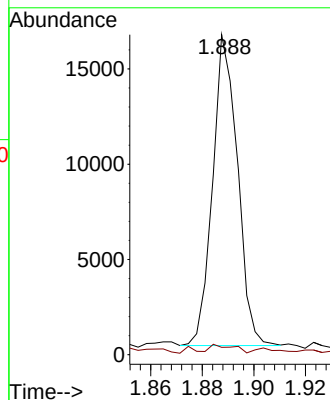
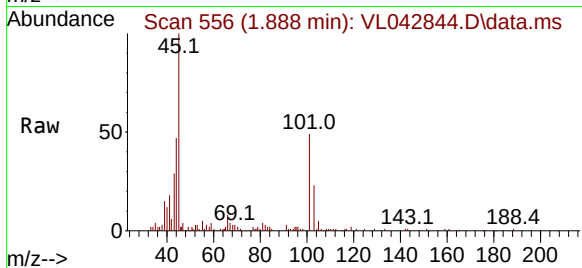
#19  
Isopropyl Alcohol  
Concen: 1.073 ppbv  
RT: 1.888 min Scan# 510  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 45 Resp: 1089  
Ion Ratio Lower Upper  
45 100  
58 2.9 32.7 49.1

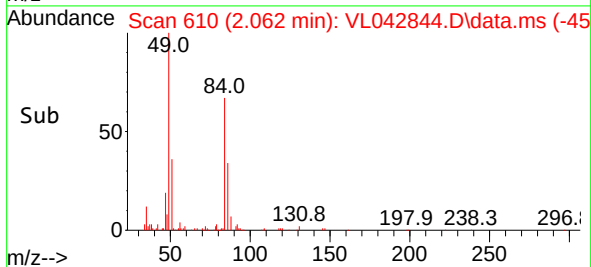
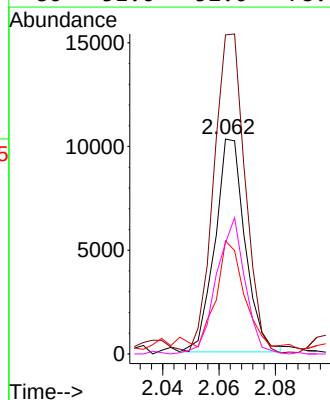
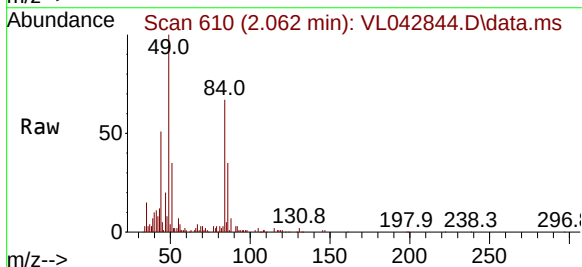
Manual Integrations  
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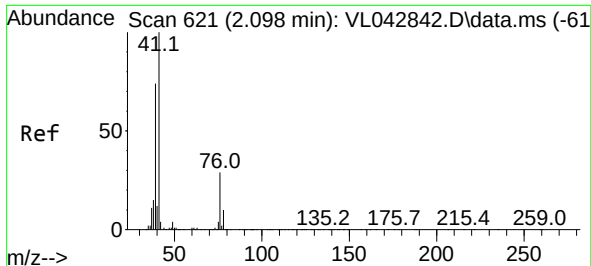
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#20  
Methylene Chloride  
Concen: 1.076 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

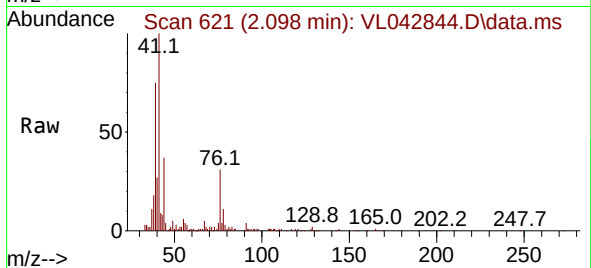
Tgt Ion: 84 Resp: 7661  
Ion Ratio Lower Upper  
84 100  
49 149.4 112.3 168.5  
51 49.2 36.0 54.0  
86 51.6 52.0 78.0





#21  
 Allyl Chloride  
 Concen: 0.966 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

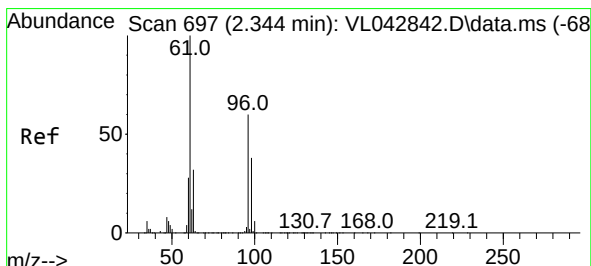
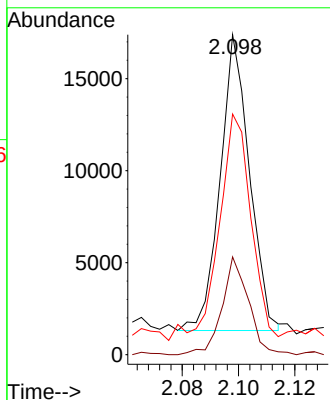
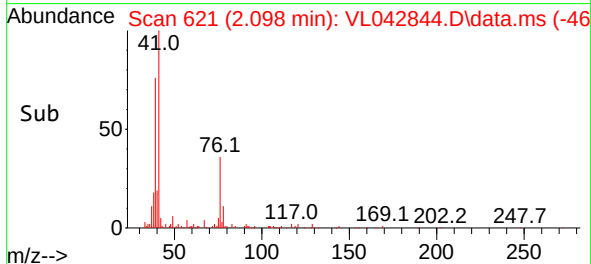
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001



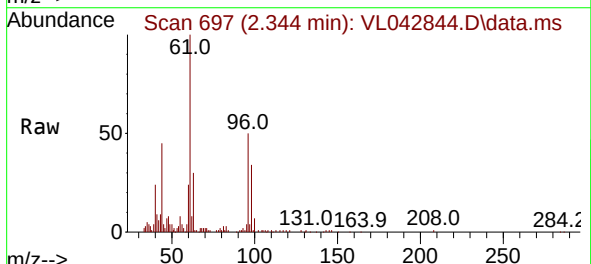
Tgt Ion: 41 Resp: 11598  
 Ion Ratio Lower Upper  
 41 100  
 76 30.9 23.9 35.9  
 39 86.2 57.8 86.6

Manual Integrations  
 APPROVED

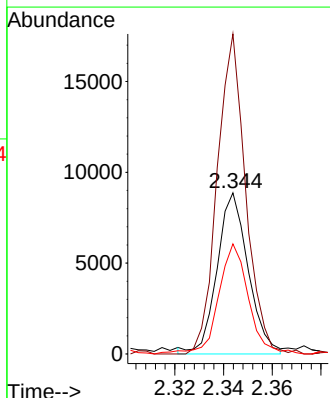
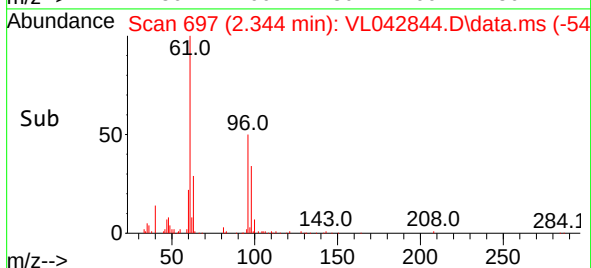
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

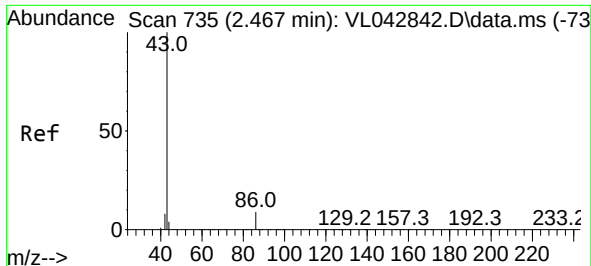


#22  
 trans-1,2-Dichloroethene  
 Concen: 1.082 ppbv m  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41



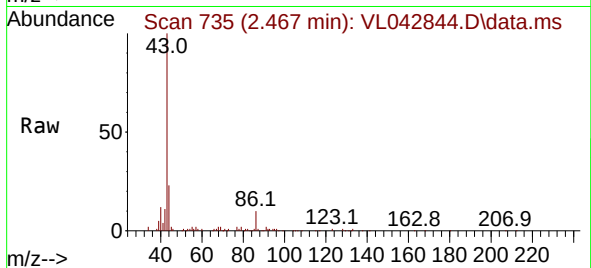
Tgt Ion: 96 Resp: 7882  
 Ion Ratio Lower Upper  
 96 100  
 61 198.6 132.6 199.0  
 98 68.3 50.0 75.0





#23  
 Vinyl Acetate  
 Concen: 0.996 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

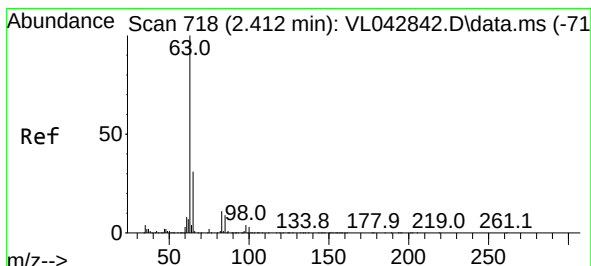
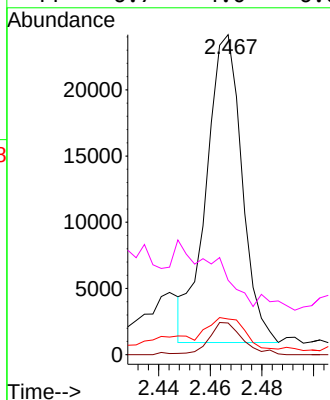
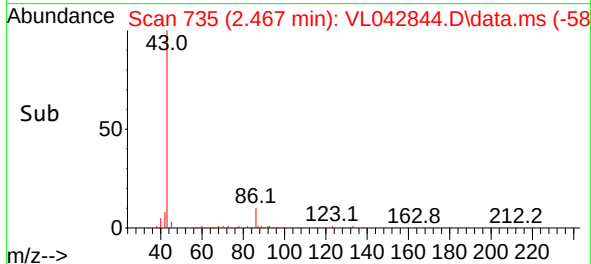
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICC001



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 86      | 10.0  | 6.6   | 9.8   |
| 42      | 9.8   | 7.0   | 10.6  |
| 44      | 6.7   | 4.0   | 6.0   |

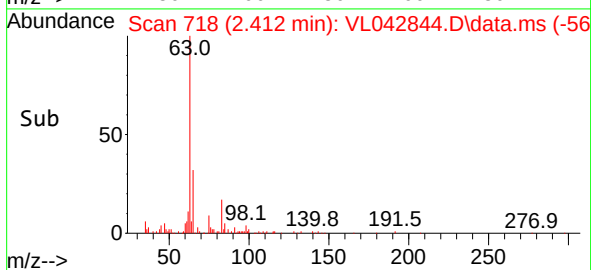
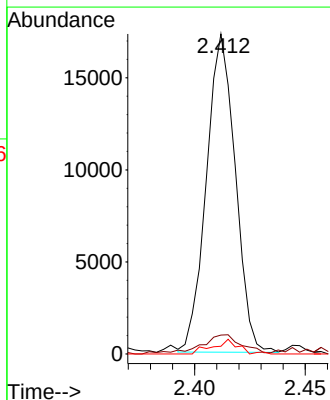
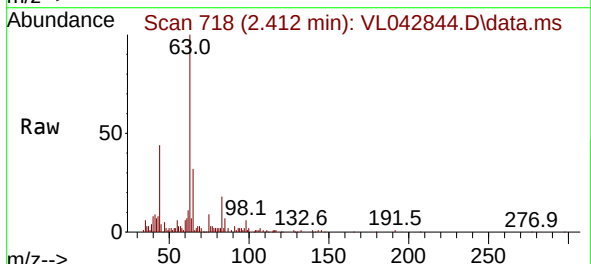
Manual Integrations  
 APPROVED

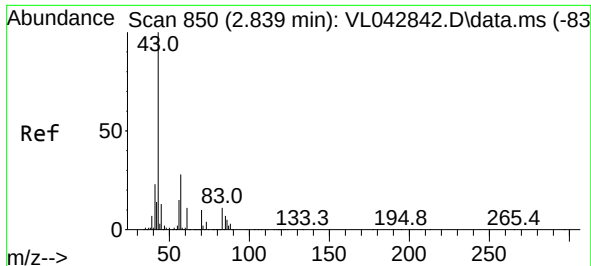
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



#24  
 1,1-Dichloroethane  
 Concen: 1.045 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

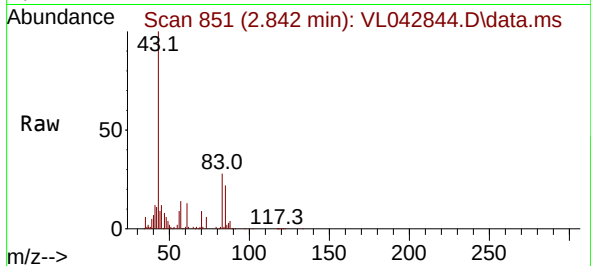
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 4.8   | 2.1   | 6.5   |
| 100     | 2.4   | 1.7   | 5.1   |





#25  
Ethyl Acetate  
Concen: 1.045 ppbv  
RT: 2.842 min Scan# 851  
Delta R.T. 0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

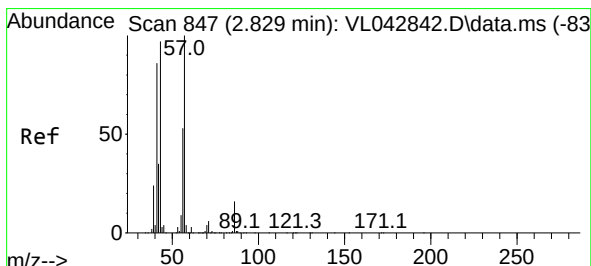
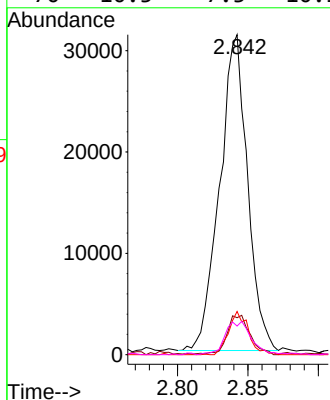
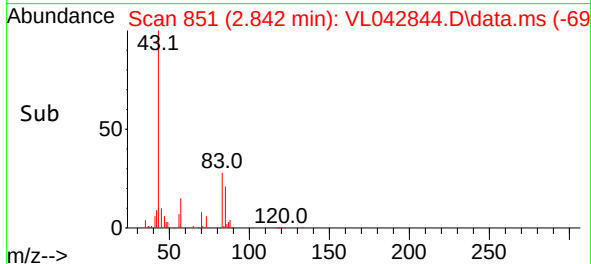
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



| Tgt Ion: | 43    | Resp: | 4300  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 11.2  | 8.1   | 12.1  |
| 61       | 9.7   | 7.4   | 11.2  |
| 70       | 10.3  | 7.3   | 10.9  |

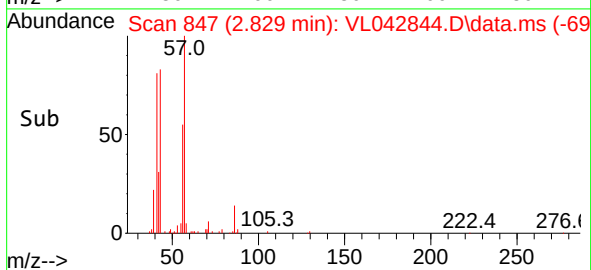
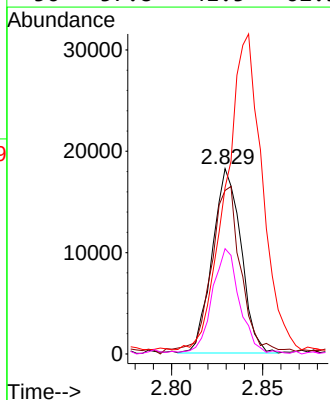
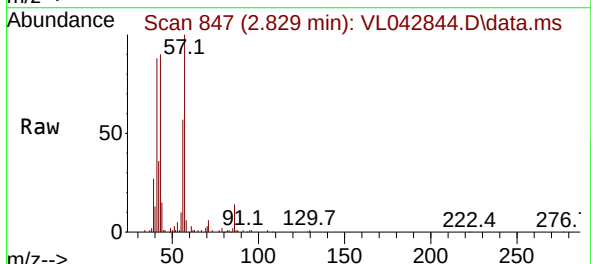
Manual Integrations  
APPROVED

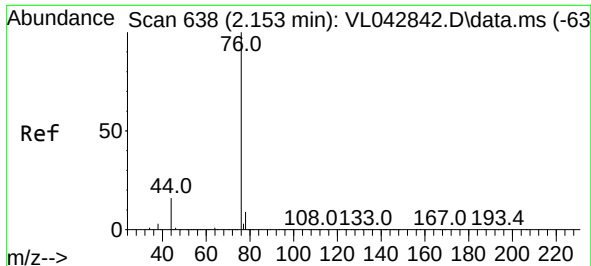
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#26  
Hexane  
Concen: 1.050 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

| Tgt Ion: | 57    | Resp: | 19944 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 93.6  | 68.6  | 103.0 |
| 43       | 222.4 | 168.5 | 252.7 |
| 56       | 57.8  | 41.5  | 62.3  |





#27

Carbon Disulfide

Concen: 1.052 ppbv

RT: 2.153 min Scan# 638

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

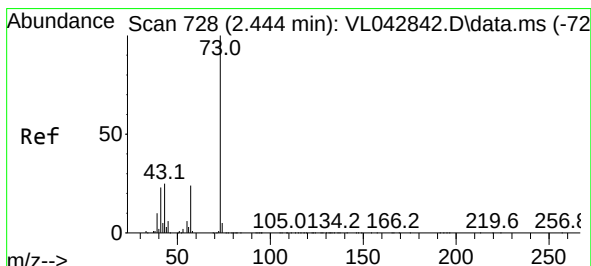
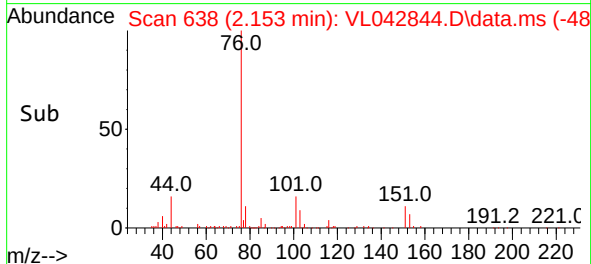
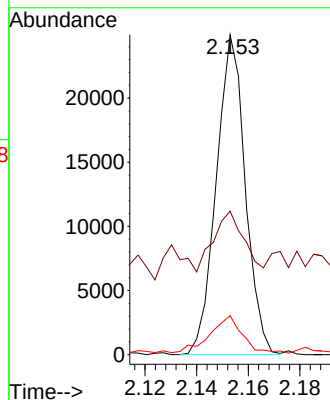
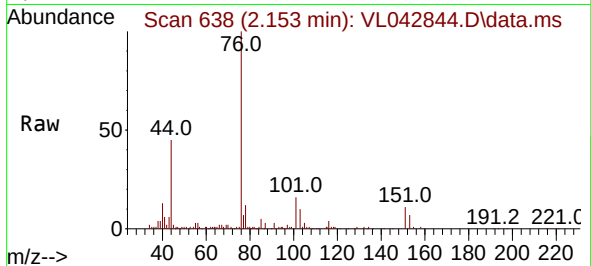
VSTDICC001

|             |                |
|-------------|----------------|
| Tgt Ion: 76 | Resp: 19450    |
| Ion Ratio   | Lower Upper    |
| 76          | 100            |
| 44          | 88.3 15.9 23.9 |
| 78          | 17.1 9.5 14.3  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#28

Methyl tert-Butyl Ether

Concen: 0.991 ppbv

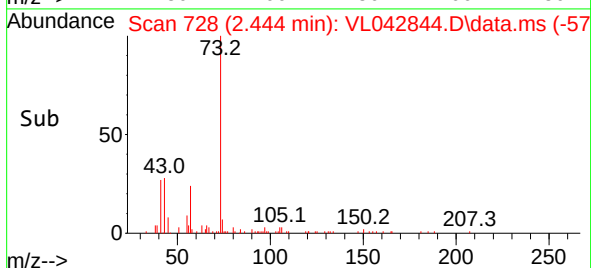
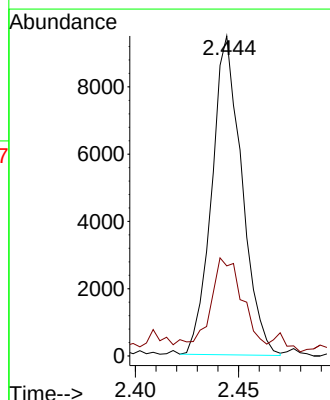
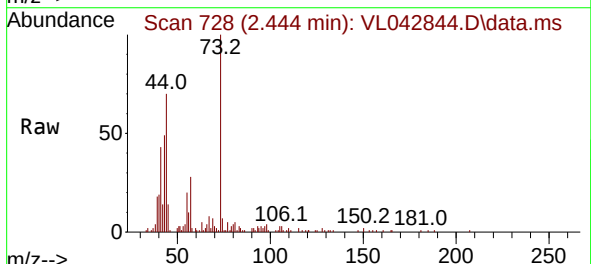
RT: 2.444 min Scan# 728

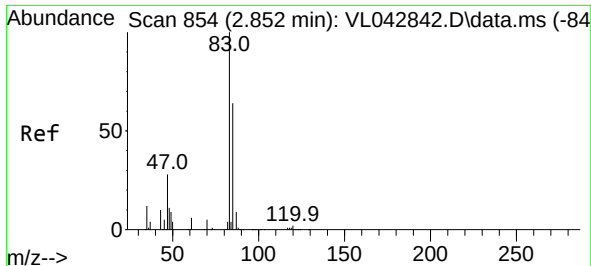
Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

|             |                |
|-------------|----------------|
| Tgt Ion: 73 | Resp: 9600     |
| Ion Ratio   | Lower Upper    |
| 73          | 100            |
| 57          | 33.4 21.6 32.4 |





#29

Chloroform

Concen: 1.034 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

Tgt Ion: 83 Resp: 2805

Ion Ratio Lower Upper

83 100

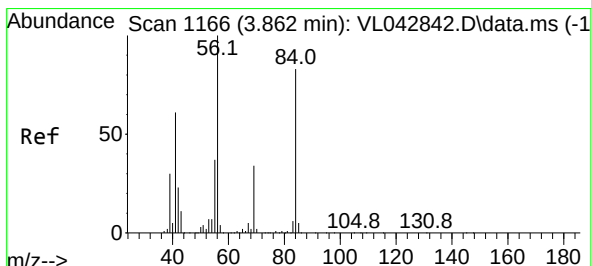
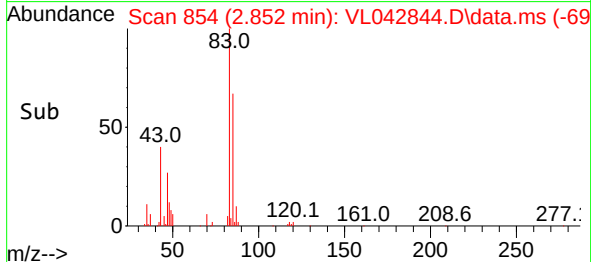
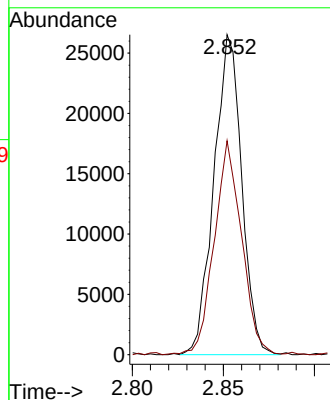
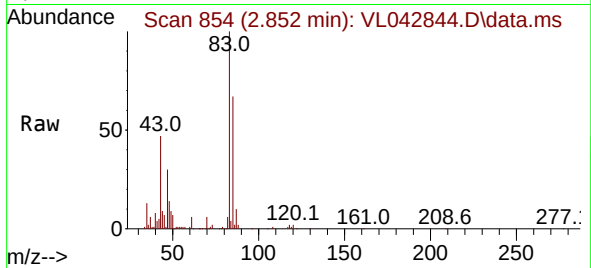
85 66.6 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#30

Cyclohexane

Concen: 0.990 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

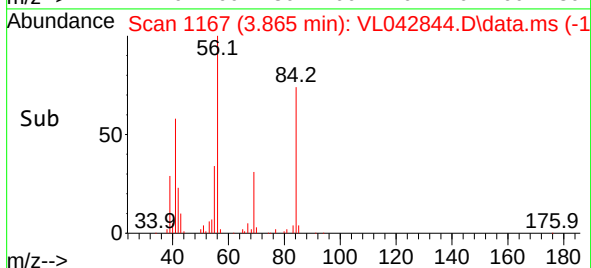
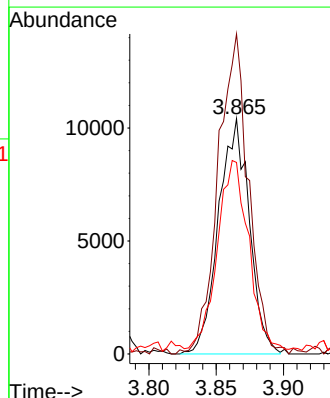
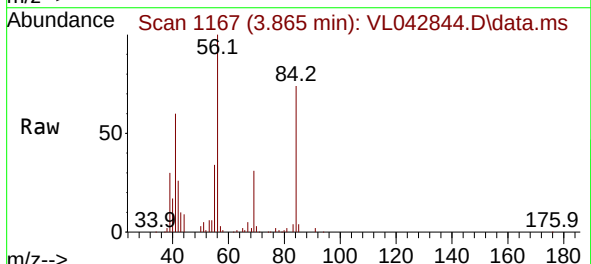
Tgt Ion: 84 Resp: 16492

Ion Ratio Lower Upper

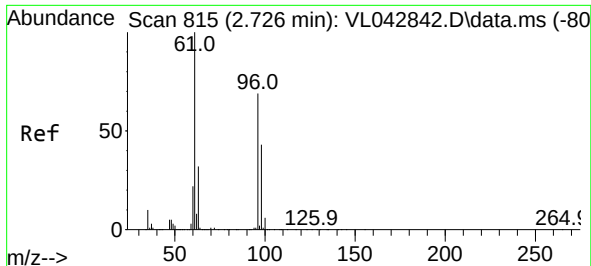
84 100

56 135.9 98.8 148.2

41 84.9 61.3 91.9

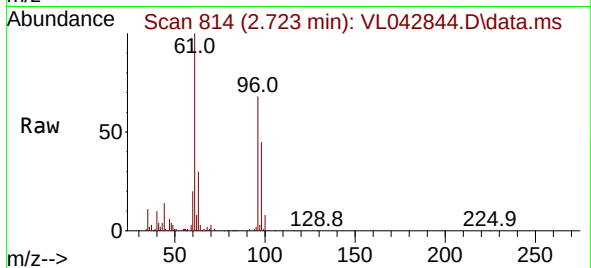






#31  
 cis-1,2-Dichloroethene  
 Concen: 1.031 ppbv  
 RT: 2.723 min Scan# 815  
 Delta R.T. -0.003 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

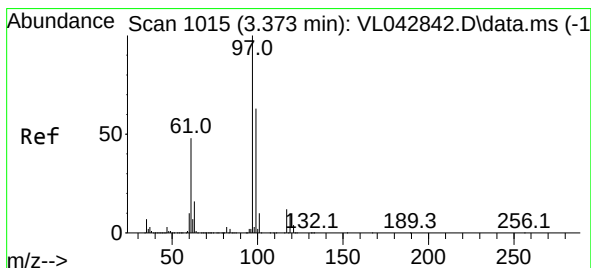
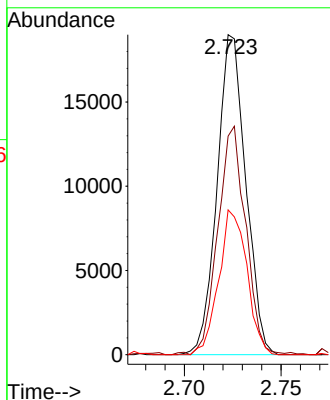
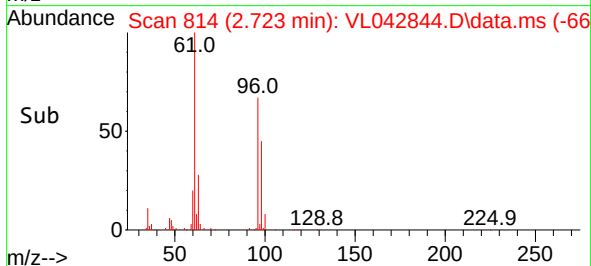
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001



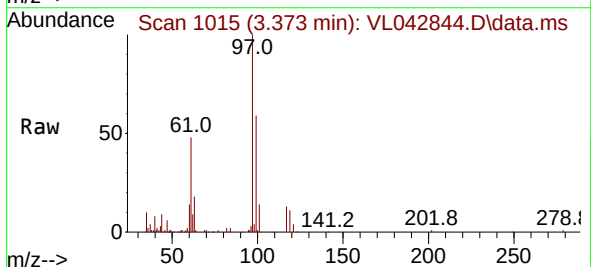
Tgt Ion: 61 Resp: 1959  
 Ion Ratio Lower Upper  
 61 100  
 96 67.7 55.0 82.6  
 98 45.2 34.3 51.5

Manual Integrations  
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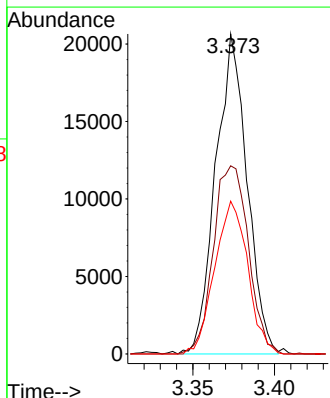
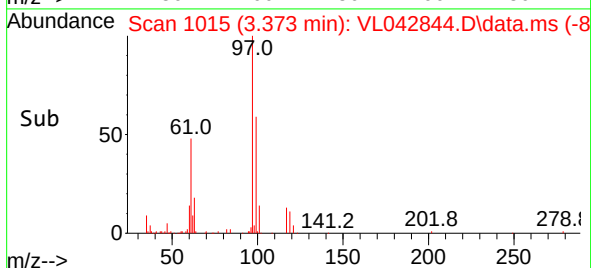
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

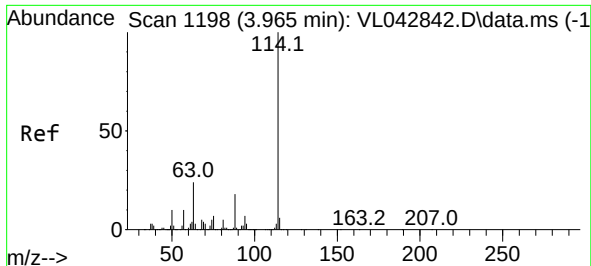


#32  
 1,1,1-Trichloroethane  
 Concen: 0.961 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41



Tgt Ion: 97 Resp: 27607  
 Ion Ratio Lower Upper  
 97 100  
 99 65.8 51.0 76.6  
 61 50.2 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion:114 Resp: 40030

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

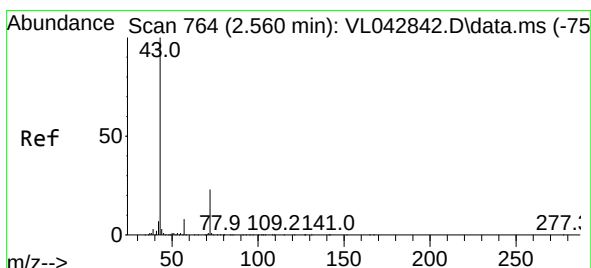
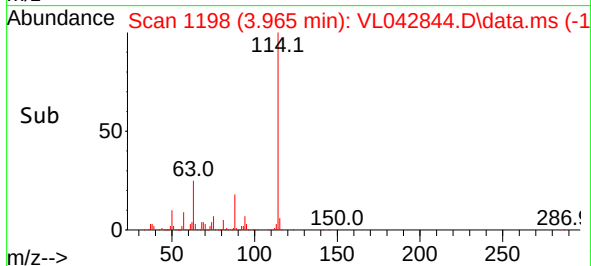
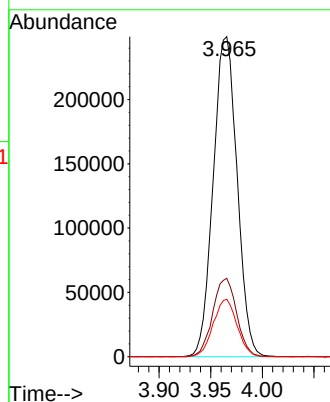
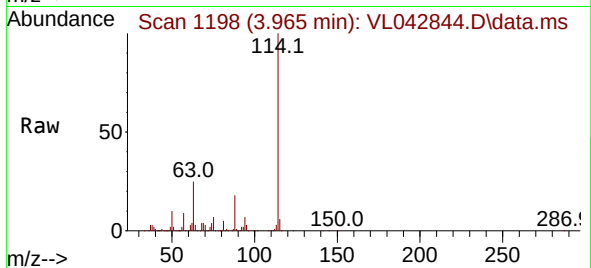
88 17.9 14.4 21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 1.040 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042844.D

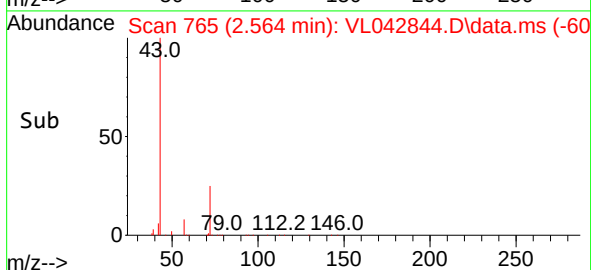
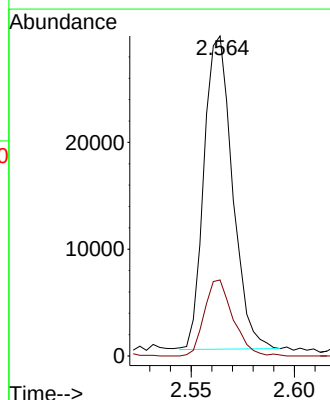
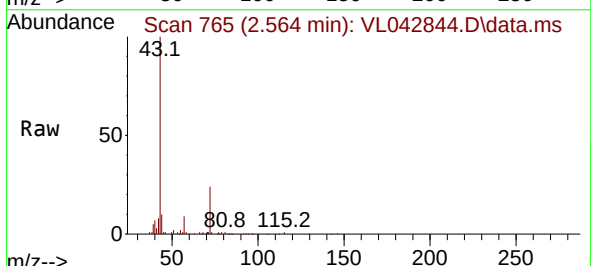
Acq: 13 Aug 2025 09:41

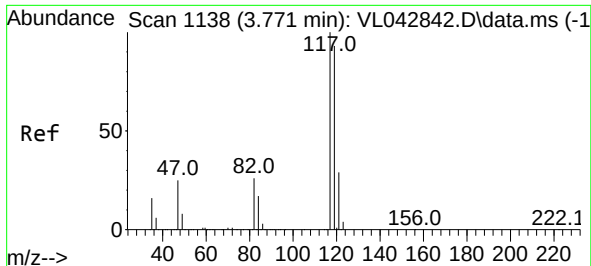
Tgt Ion: 43 Resp: 28105

Ion Ratio Lower Upper

43 100

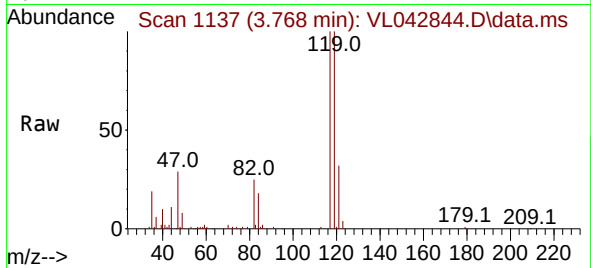
72 24.4 18.6 28.0





#35  
Carbon Tetrachloride  
Concen: 1.015 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

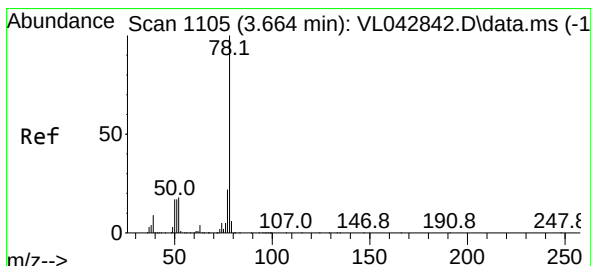
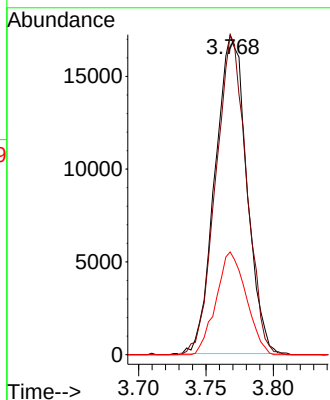
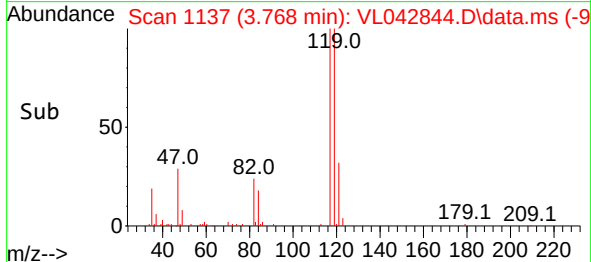
Instrument : MSVOA\_L  
ClientSampleId : VSTDIC001



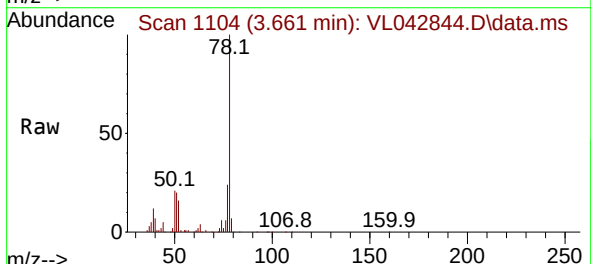
Tgt Ion: 117 Resp: 2800  
Ion Ratio Lower Upper  
117 100  
119 100.5 74.7 112.1  
121 32.3 23.2 34.8

Manual Integrations  
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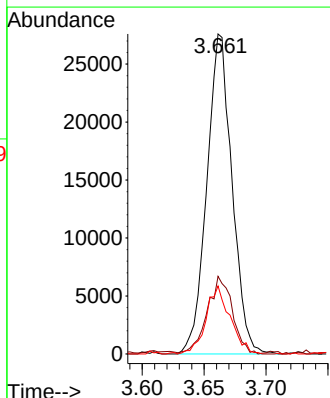
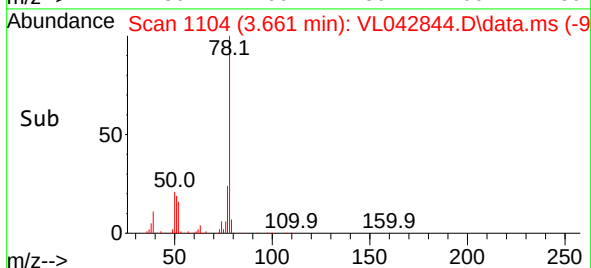
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

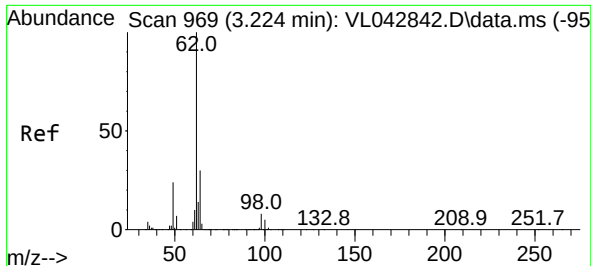


#36  
Benzene  
Concen: 1.021 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41



Tgt Ion: 78 Resp: 39137  
Ion Ratio Lower Upper  
78 100  
77 23.8 17.7 26.5  
50 21.1 13.9 20.9#





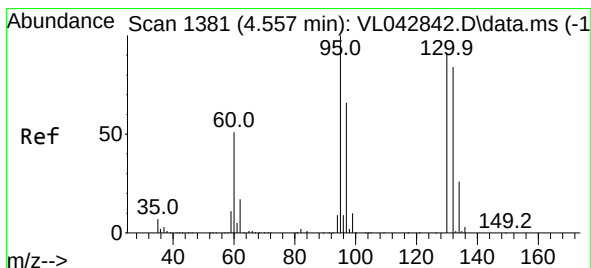
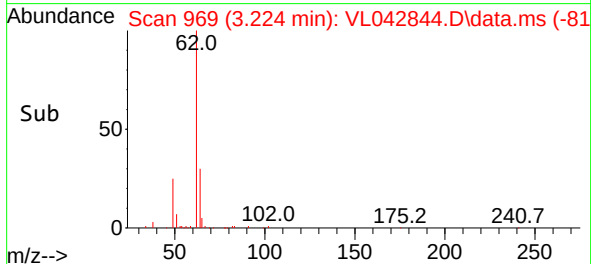
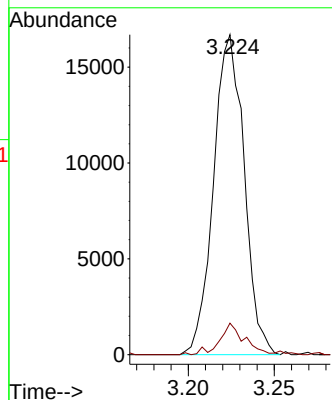
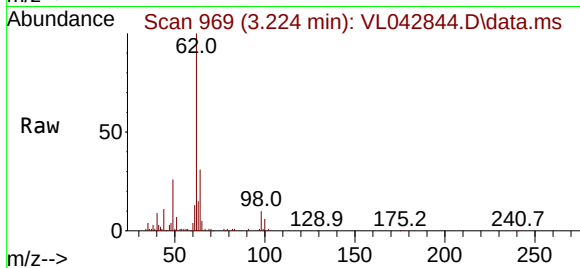
#37  
1,2-Dichloroethane  
Concen: 1.031 ppbv  
RT: 3.224 min Scan# 969  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion: 62 Resp: 2064  
Ion Ratio Lower Upper  
62 100  
98 8.4 5.9 8.9

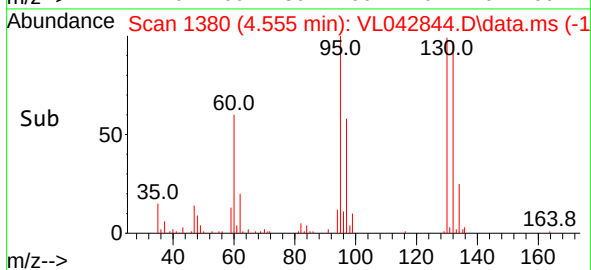
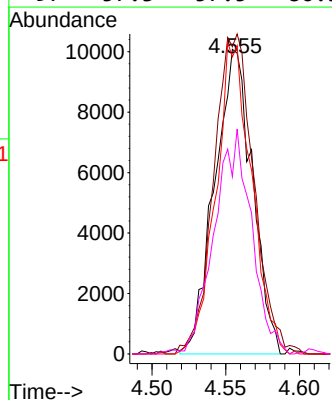
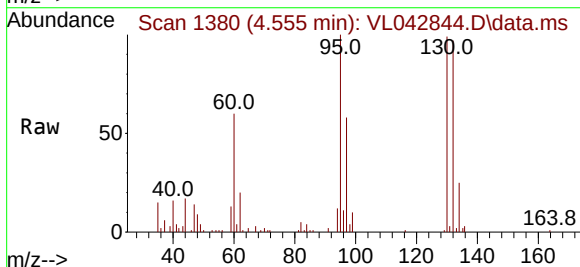
Manual Integrations  
APPROVED

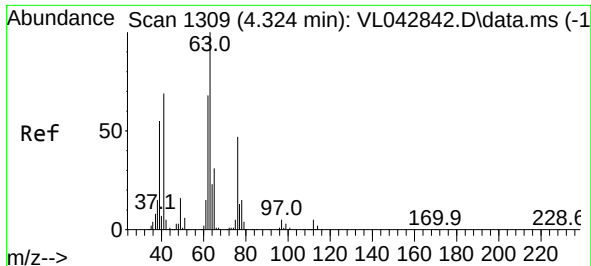
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#38  
Trichloroethene  
Concen: 1.024 ppbv  
RT: 4.555 min Scan# 1380  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion:130 Resp: 17921  
Ion Ratio Lower Upper  
130 100  
95 97.9 87.6 131.4  
132 96.6 73.8 110.8  
97 57.3 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 1.042 ppbv m

RT: 4.325 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

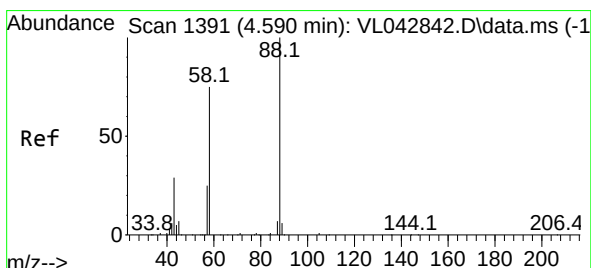
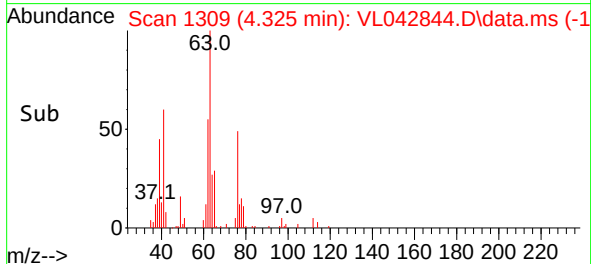
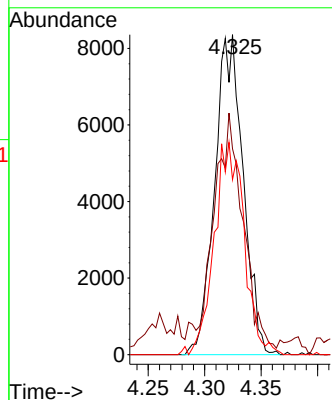
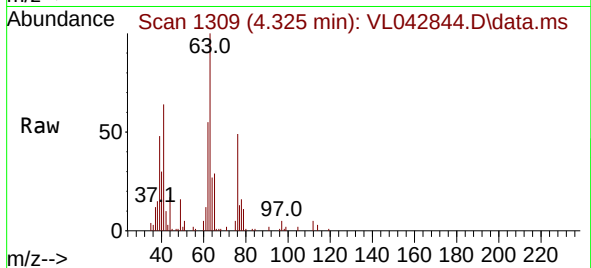
ClientSampleId :

VSTDIC001

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 1459  |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 41 64.4     | 55.0 82.4   |
| 62 54.7     | 54.4 81.6   |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 1.127 ppbv m

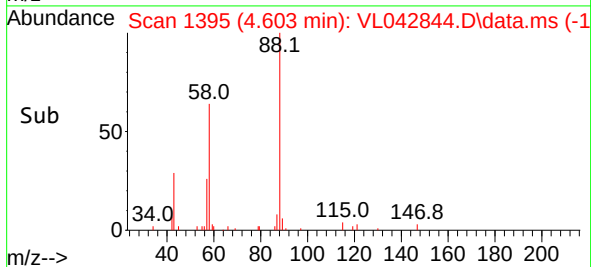
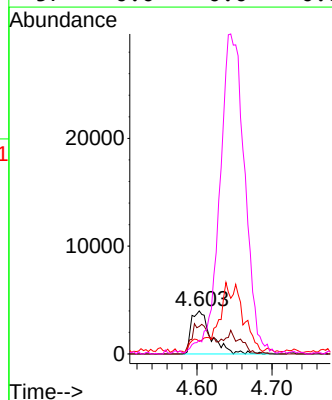
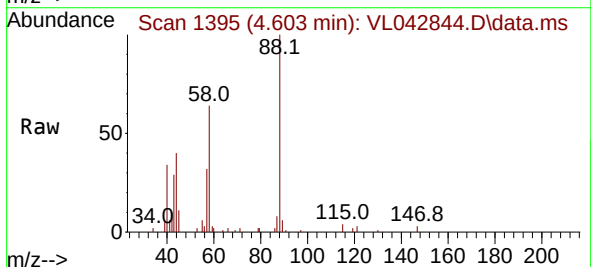
RT: 4.603 min Scan# 1395

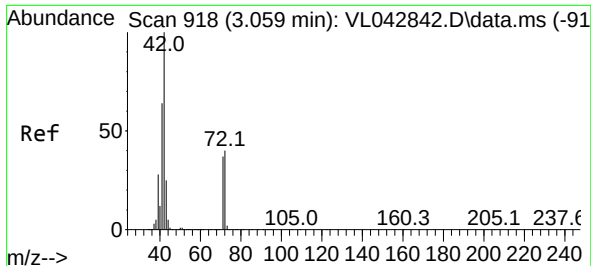
Delta R.T. 0.013 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

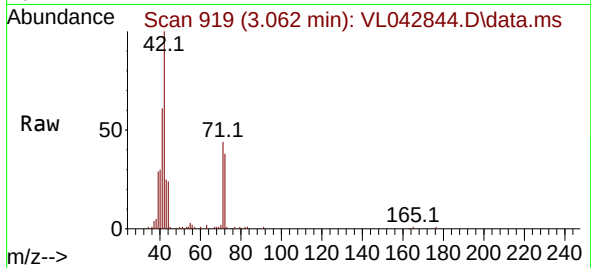
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion: 88 | Resp: | 7386  |
| Ion | Ratio   | Lower | Upper |
| 88  | 100     |       |       |
| 58  | 0.0     | 53.8  | 80.6# |
| 43  | 0.0     | 22.8  | 34.2# |
| 57  | 0.0     | 0.0   | 0.0   |





#41  
Tetrahydrofuran  
Concen: 1.032 ppbv  
RT: 3.062 min Scan# 918  
Delta R.T. 0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

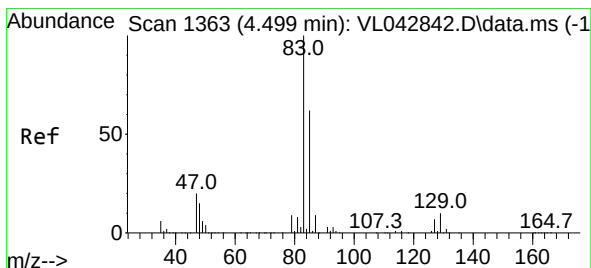
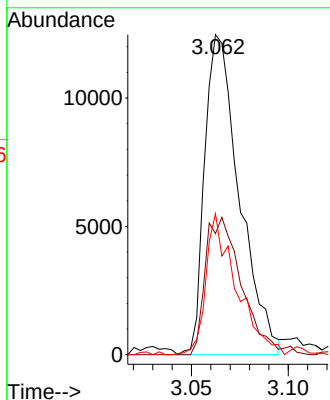
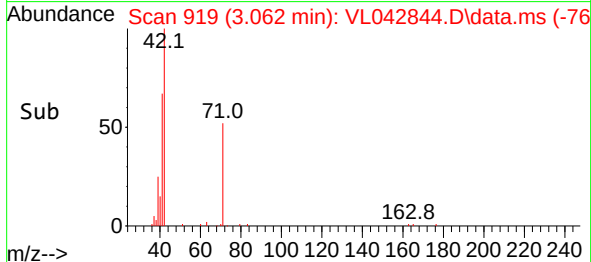
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 42 Resp: 1555  
Ion Ratio Lower Upper  
42 100  
72 45.4 32.6 48.8  
71 40.1 30.0 45.0

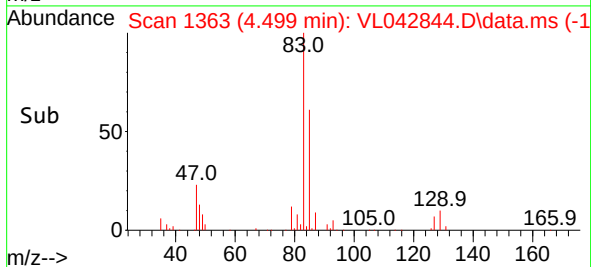
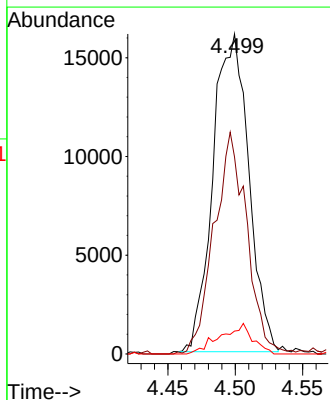
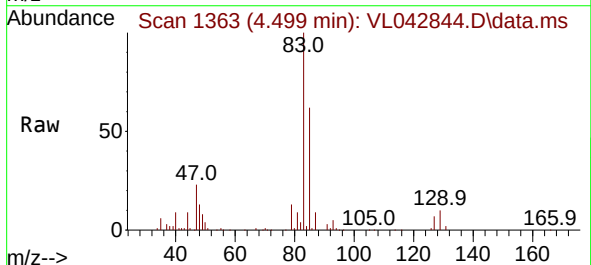
Manual Integrations  
APPROVED

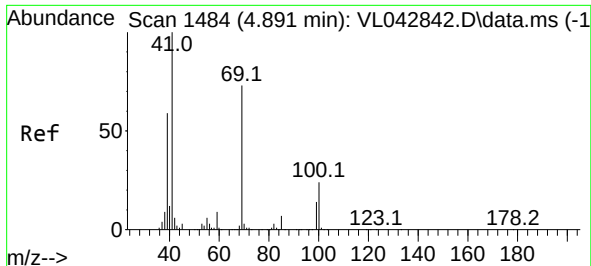
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#42  
Bromodichloromethane  
Concen: 0.995 ppbv  
RT: 4.499 min Scan# 1363  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

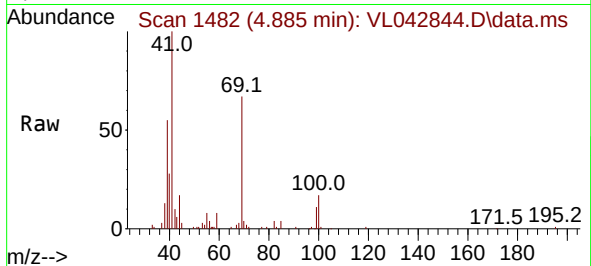
Tgt Ion: 83 Resp: 29683  
Ion Ratio Lower Upper  
83 100  
85 61.3 49.8 74.8  
127 7.2 5.8 8.6





#43  
Methyl Methacrylate  
Concen: 1.022 ppbv m  
RT: 4.885 min Scan# 1484  
Delta R.T. -0.006 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

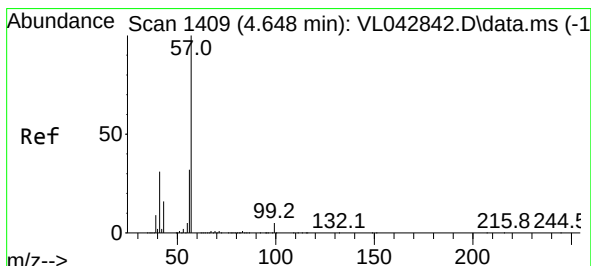
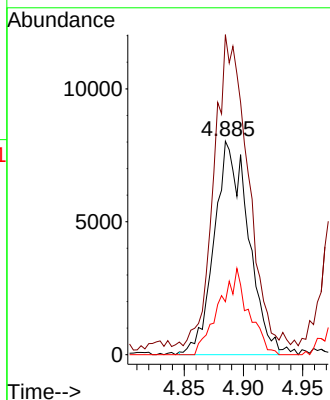
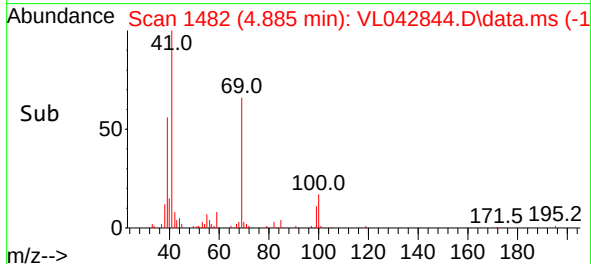
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



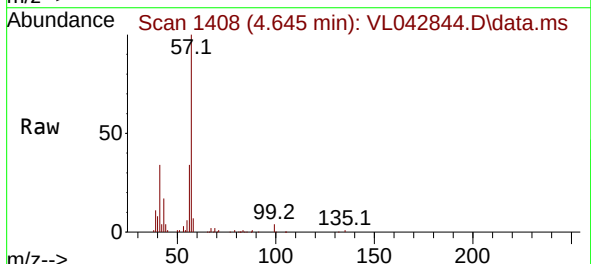
Tgt Ion: 69 Resp: 1607  
Ion Ratio Lower Upper  
69 100  
41 0.0 114.6 172.0  
100 35.1 30.2 45.4

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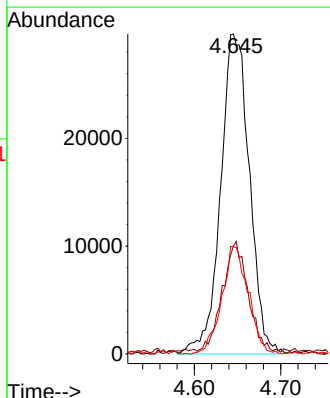
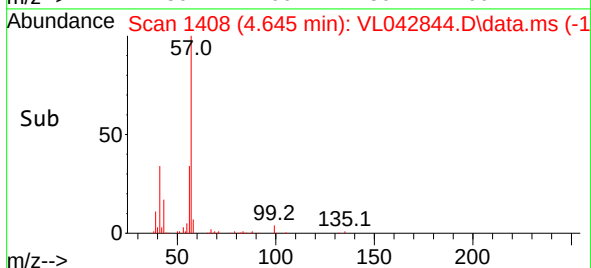
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

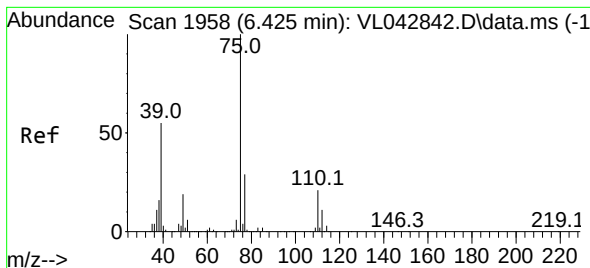


#44  
2,2,4-Trimethylpentane  
Concen: 1.069 ppbv m  
RT: 4.645 min Scan# 1408  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41



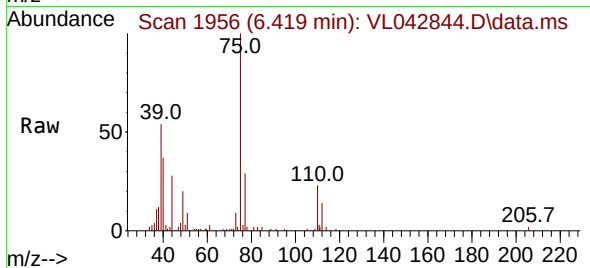
Tgt Ion: 57 Resp: 68813  
Ion Ratio Lower Upper  
57 100  
41 32.7 24.8 37.2  
56 31.3 25.5 38.3





#45  
 t-1,3-Dichloropropene  
 Concen: 1.042 ppbv m  
 RT: 6.419 min Scan# 1958  
 Delta R.T. -0.006 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

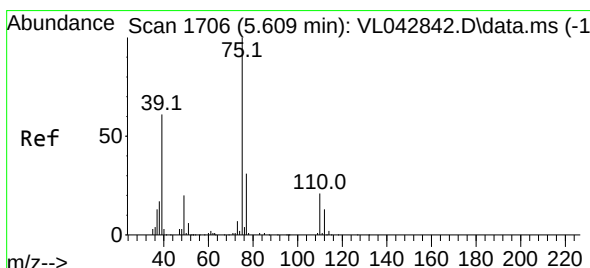
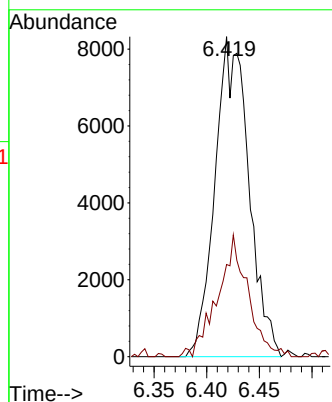
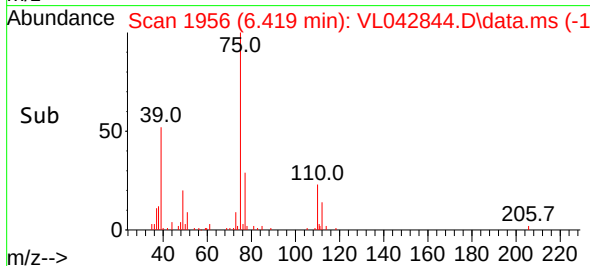
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001



Tgt Ion: 75 Resp: 18580  
 Ion Ratio Lower Upper  
 75 100  
 77 28.8 23.8 35.6

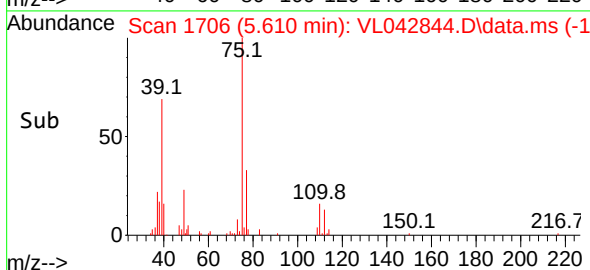
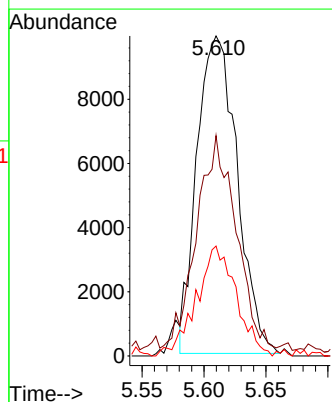
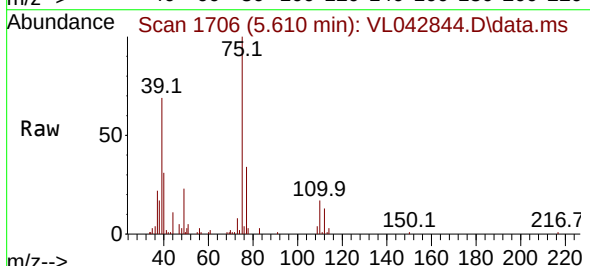
Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

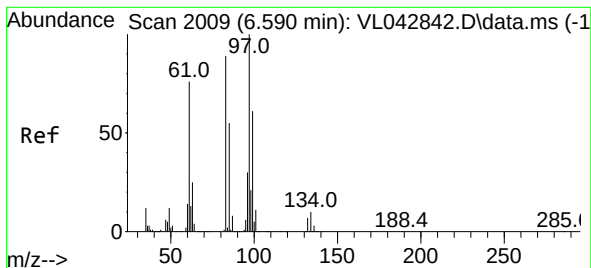


#46  
 cis-1,3-Dichloropropene  
 Concen: 0.999 ppbv  
 RT: 5.610 min Scan# 1706  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

Tgt Ion: 75 Resp: 22372  
 Ion Ratio Lower Upper  
 75 100  
 39 66.4 48.9 73.3  
 77 33.8 24.9 37.3







#47

1,1,2-Trichloroethane

Concen: 1.032 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

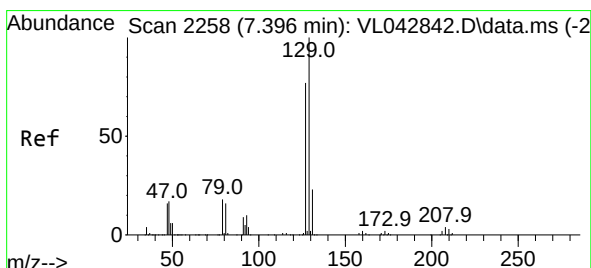
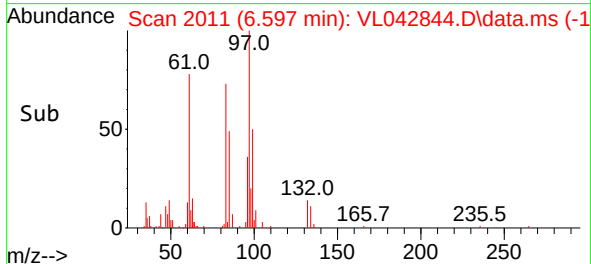
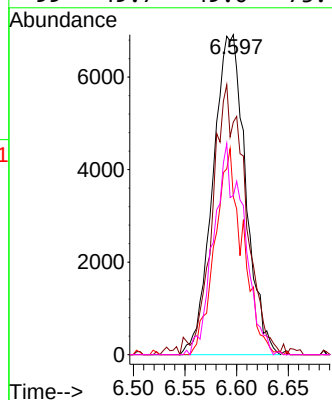
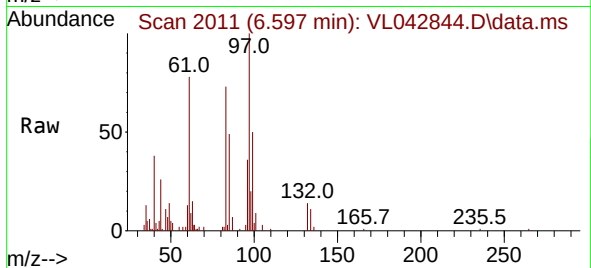
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 1529  |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 72.7     | 71.0 106.4  |
| 85 49.4     | 43.6 65.4   |
| 99 49.7     | 49.0 73.4   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#48

Dibromochloromethane

Concen: 1.009 ppbv

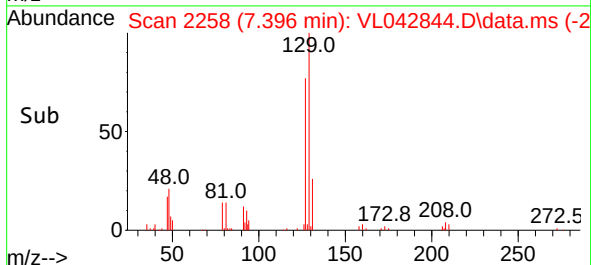
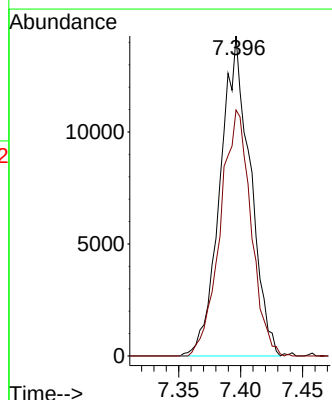
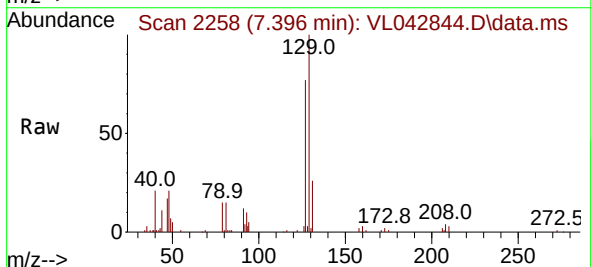
RT: 7.396 min Scan# 2258

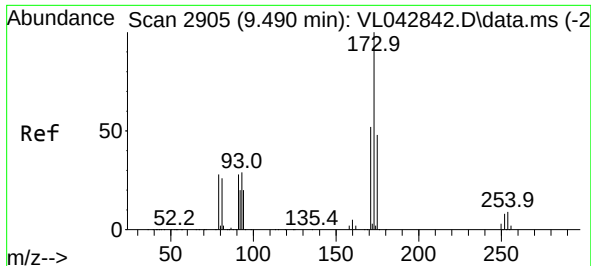
Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

|             |             |
|-------------|-------------|
| Tgt Ion:129 | Resp: 24214 |
| Ion Ratio   | Lower Upper |
| 129 100     |             |
| 127 78.2    | 39.4 118.2  |





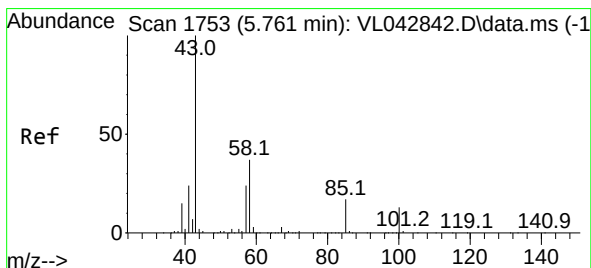
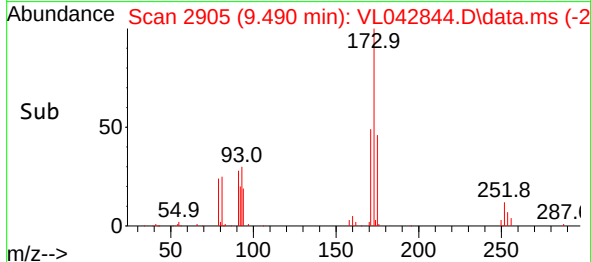
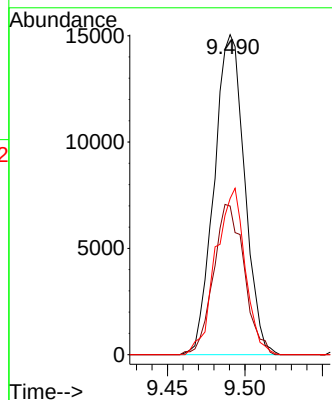
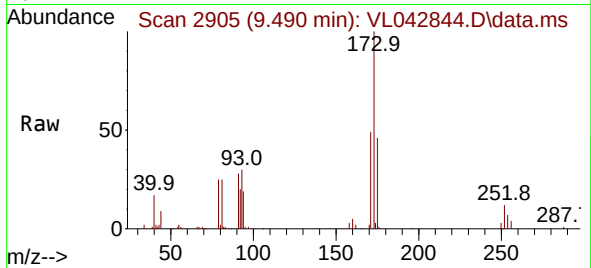
#49  
Bromoform  
Concen: 1.040 ppbv  
RT: 9.490 min Scan# 2905  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion:173 Resp: 20579  
Ion Ratio Lower Upper  
173 100  
175 47.3 39.2 58.8  
171 50.3 41.3 61.9

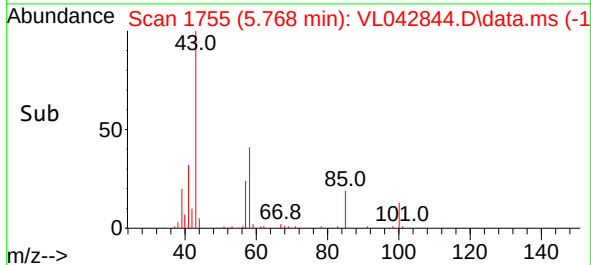
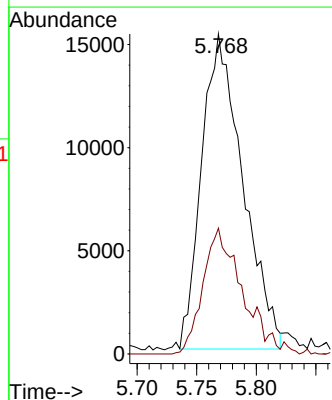
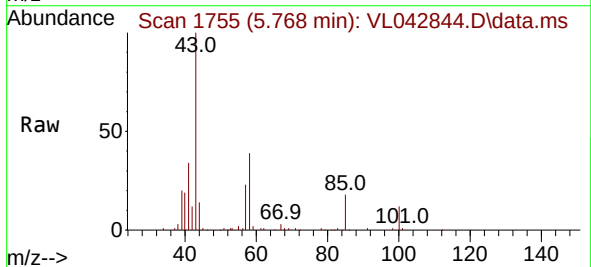
Manual Integrations  
APPROVED

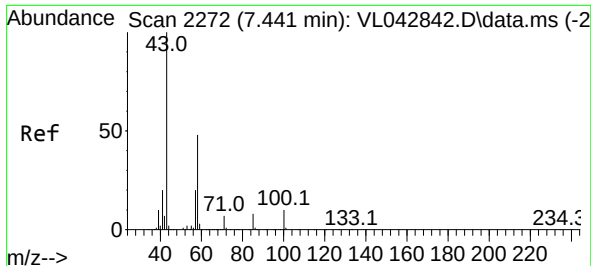
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#50  
4-Methyl-2-Pentanone  
Concen: 1.001 ppbv  
RT: 5.768 min Scan# 1755  
Delta R.T. 0.007 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

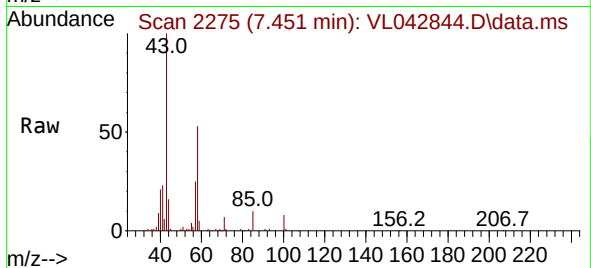
Tgt Ion: 43 Resp: 36710  
Ion Ratio Lower Upper  
43 100  
58 38.3 29.8 44.8





#51  
2-Hexanone  
Concen: 1.026 ppbv  
RT: 7.451 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

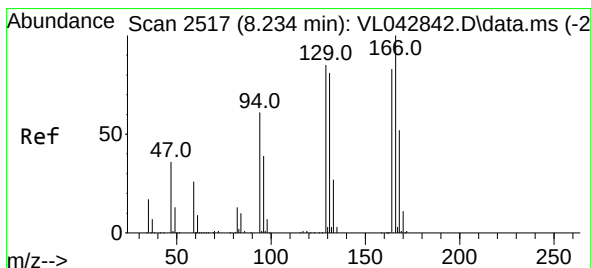
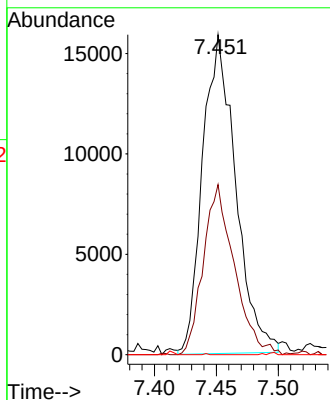
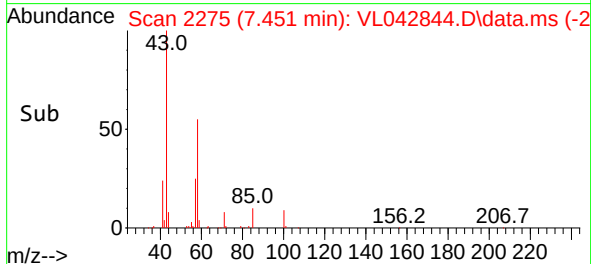
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



Tgt Ion: 43 Resp: 2948  
Ion Ratio Lower Upper  
43 100  
58 50.6 41.0 61.6  
98 0.2 0.1 0.1

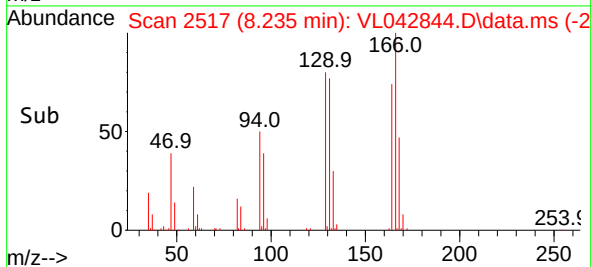
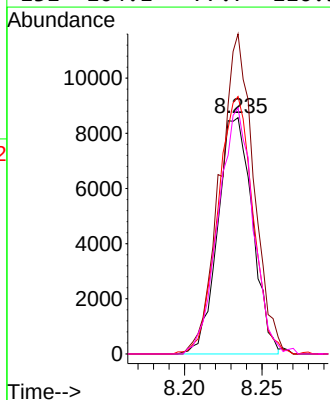
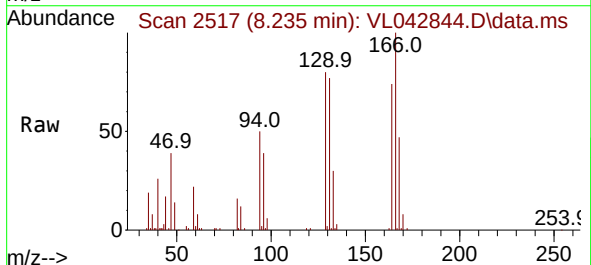
Manual Integrations  
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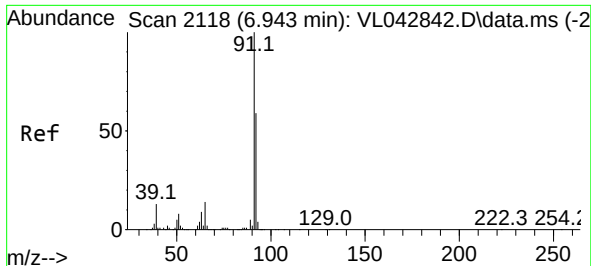
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#52  
Tetrachloroethene  
Concen: 0.960 ppbv  
RT: 8.235 min Scan# 2517  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

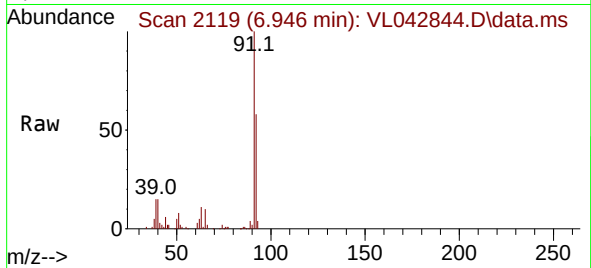
Tgt Ion:164 Resp: 13322  
Ion Ratio Lower Upper  
164 100  
166 135.4 96.5 144.7  
129 110.5 81.8 122.6  
131 104.1 77.7 116.5





#53  
Toluene  
Concen: 1.036 ppbv  
RT: 6.946 min Scan# 2119  
Delta R.T. 0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

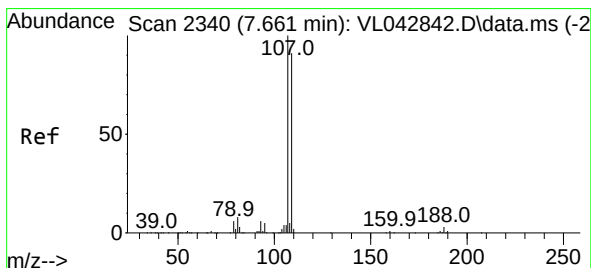
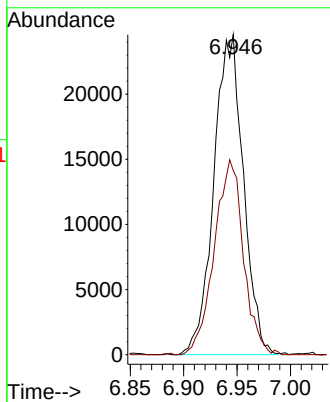
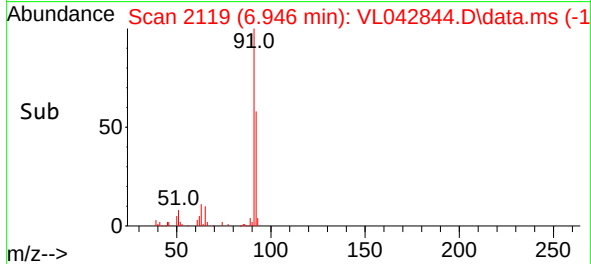
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



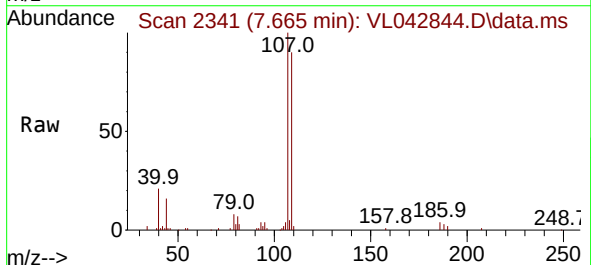
Tgt Ion: 91 Resp: 47250  
Ion Ratio Lower Upper  
91 100  
92 60.1 47.8 71.6

Manual Integrations  
APPROVED

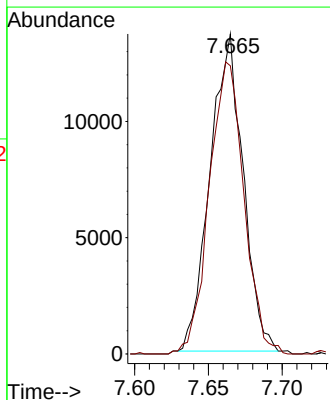
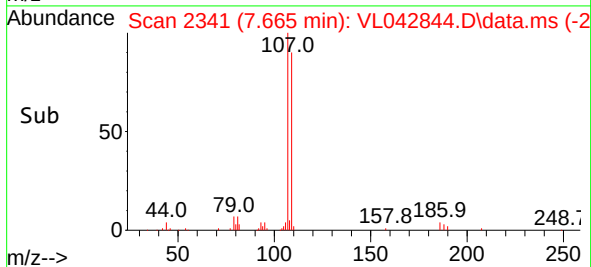
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

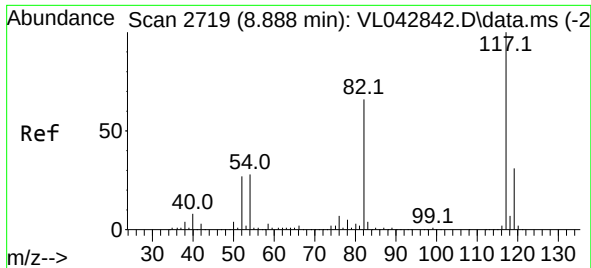


#54  
1,2-Dibromoethane  
Concen: 0.982 ppbv  
RT: 7.665 min Scan# 2341  
Delta R.T. 0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41



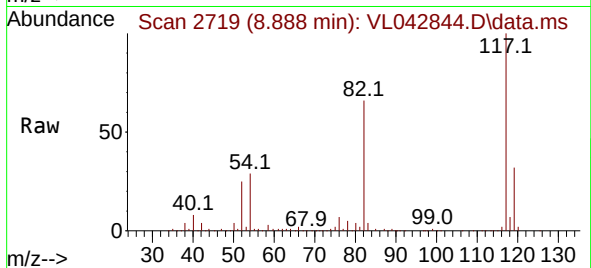
Tgt Ion:107 Resp: 21280  
Ion Ratio Lower Upper  
107 100  
109 89.9 72.5 108.7





#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2719  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

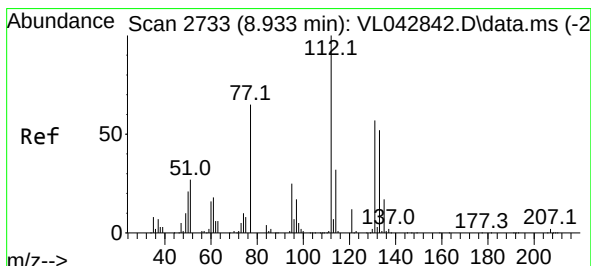
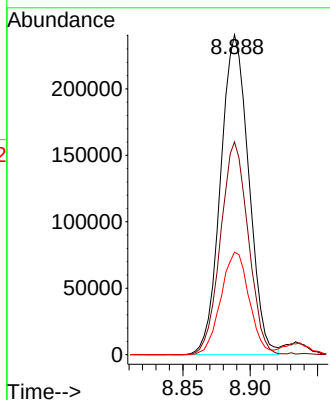
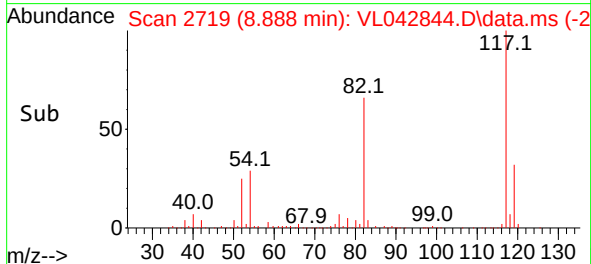
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001



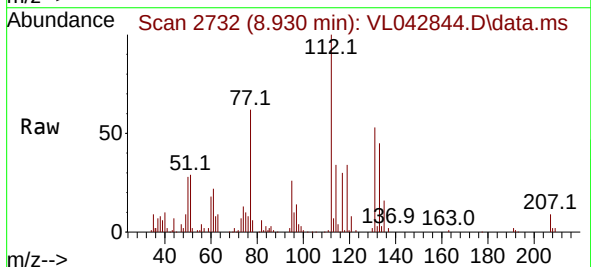
Tgt Ion:117 Resp: 34957  
Ion Ratio Lower Upper  
117 100  
82 65.9 54.6 81.8  
119 32.9 25.9 38.9

Manual Integrations  
APPROVED

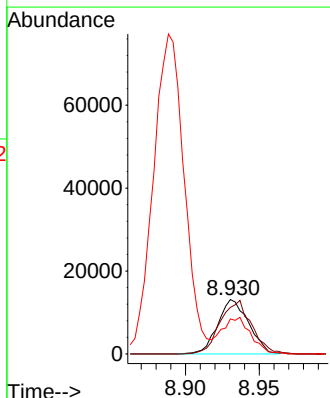
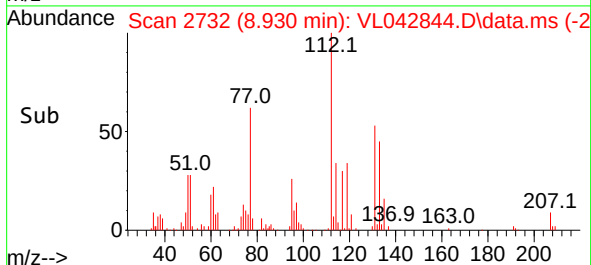
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

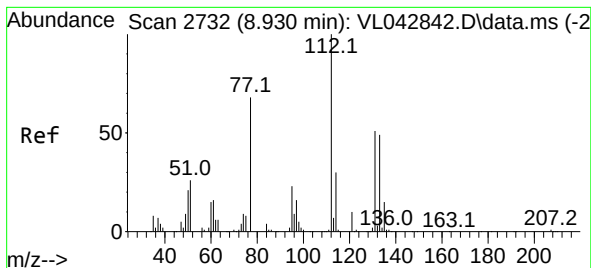


#56  
1,1,1,2-Tetrachloroethane  
Concen: 1.061 ppbv  
RT: 8.930 min Scan# 2732  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41



Tgt Ion:131 Resp: 19176  
Ion Ratio Lower Upper  
131 100  
133 99.8 77.4 116.0  
119 59.0 51.2 76.8





#57

Chlorobenzene

Concen: 1.041 ppbv

RT: 8.930 min Scan# 2732

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

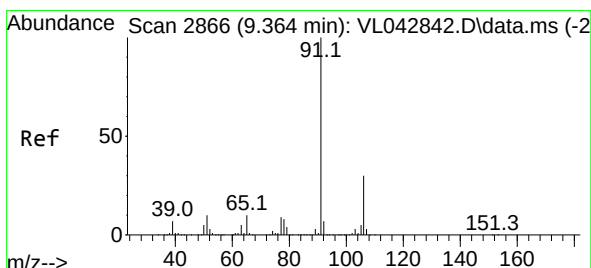
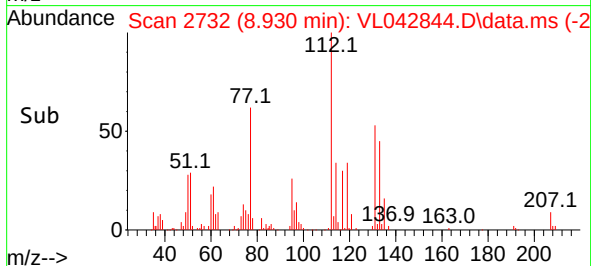
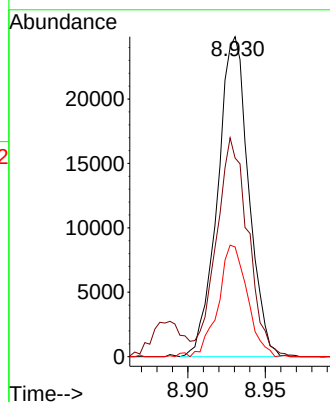
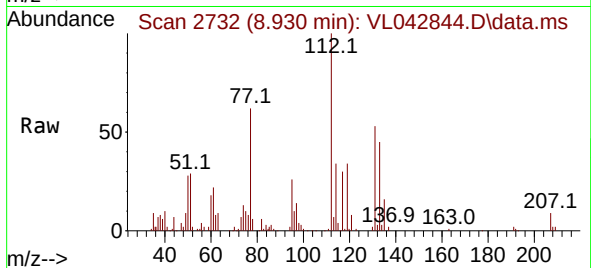
VSTDICC001

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 3461 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 77        | 61.0  | 55.5  | 83.3 |
| 114       | 34.0  | 27.2  | 33.2 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#58

Ethyl Benzene

Concen: 1.057 ppbv

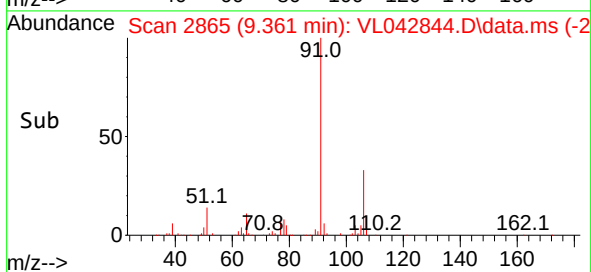
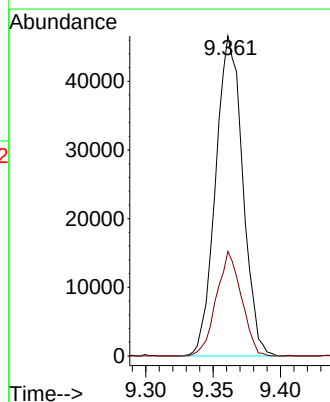
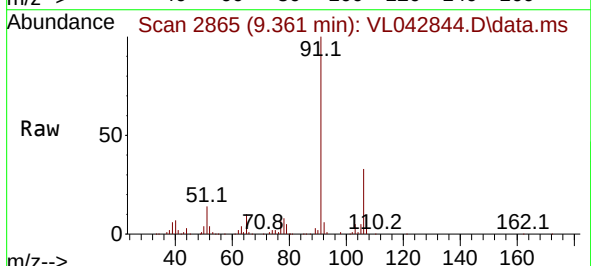
RT: 9.361 min Scan# 2865

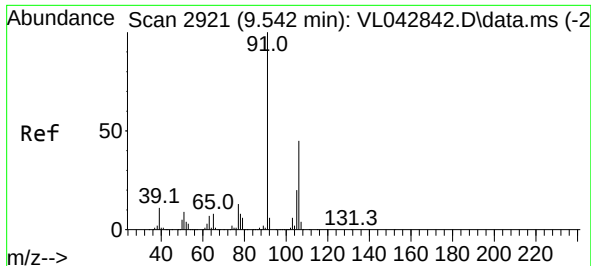
Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 65223 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 32.7  | 23.9  | 35.9  |





#59

m/p-Xylene

Concen: 2.098 ppbv m

RT: 9.558 min Scan# 2921

Delta R.T. 0.016 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 101634

Ion Ratio Lower Upper

91 100

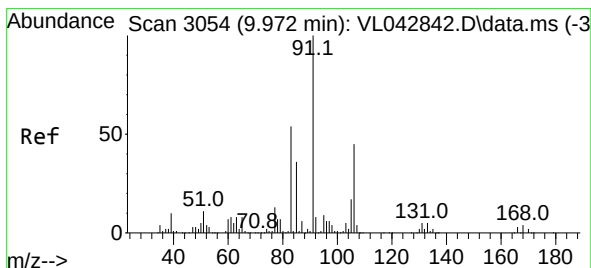
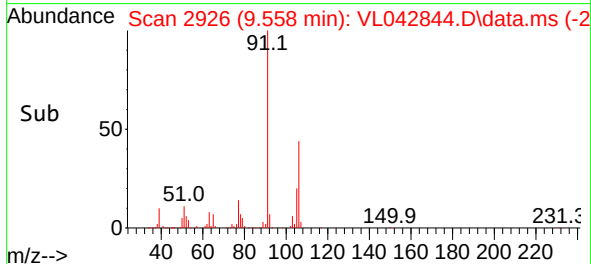
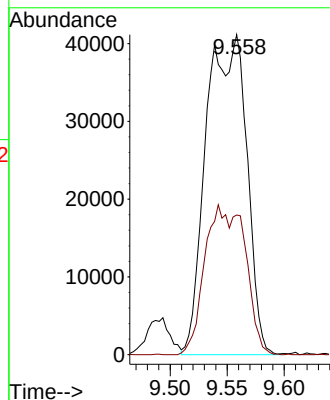
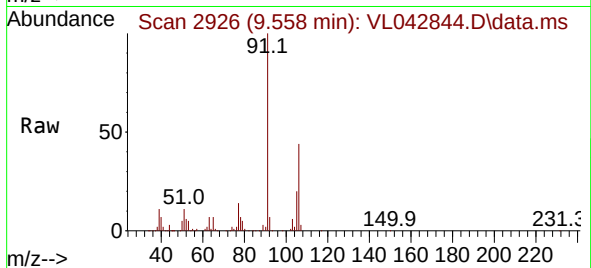
106 46.6 0.0 0.0

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#60

o-Xylene

Concen: 1.058 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.003 min

Lab File: VL042844.D

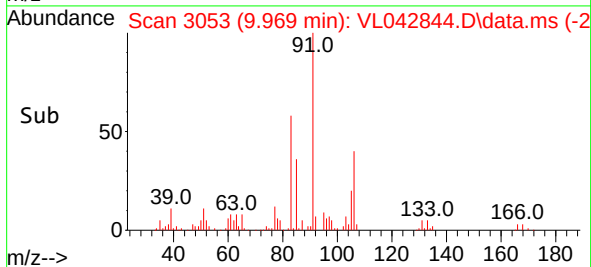
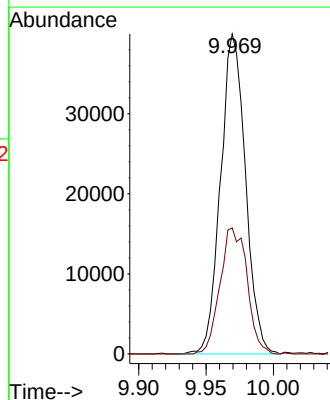
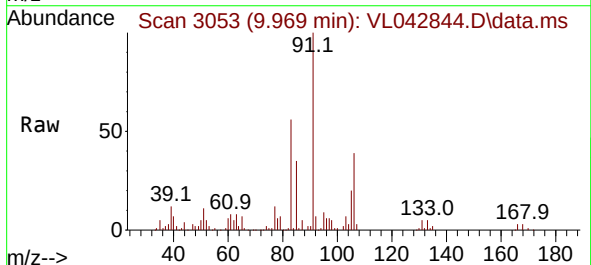
Acq: 13 Aug 2025 09:41

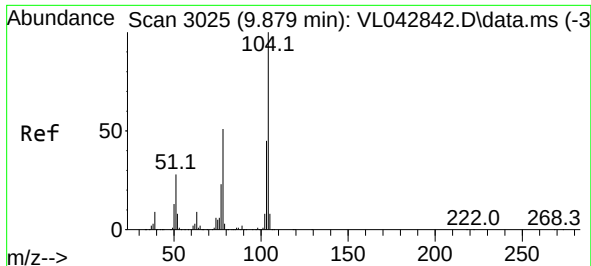
Tgt Ion: 91 Resp: 51445

Ion Ratio Lower Upper

91 100

106 42.8 21.8 65.4





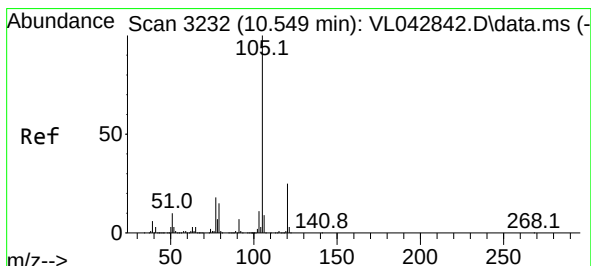
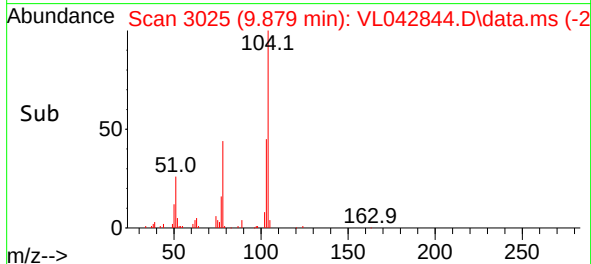
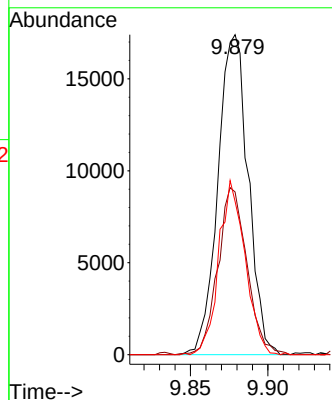
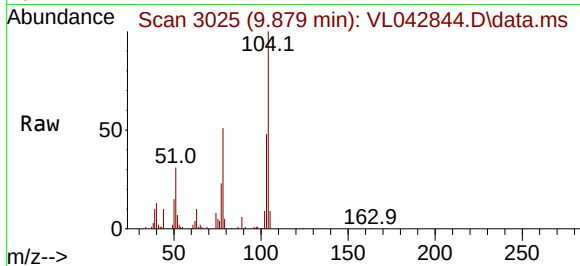
#61  
Styrene  
Concen: 1.038 ppbv  
RT: 9.879 min Scan# 3025  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion:104 Resp: 23660  
Ion Ratio Lower Upper  
104 100  
78 50.4 40.6 61.0  
103 47.3 37.7 56.5

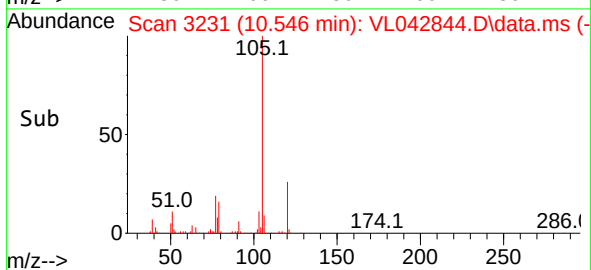
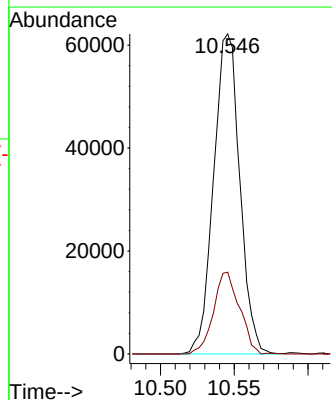
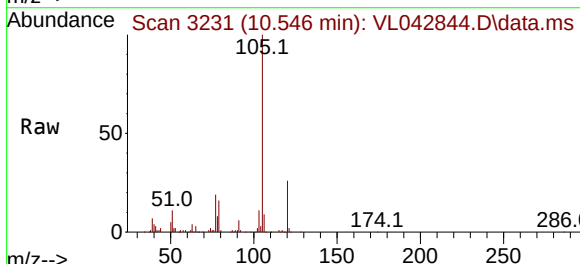
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

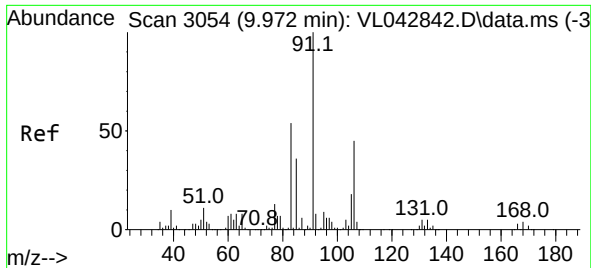


#62  
Isopropylbenzene  
Concen: 1.079 ppbv  
RT: 10.546 min Scan# 3231  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion:105 Resp: 76708  
Ion Ratio Lower Upper  
105 100  
120 25.4 20.6 30.8







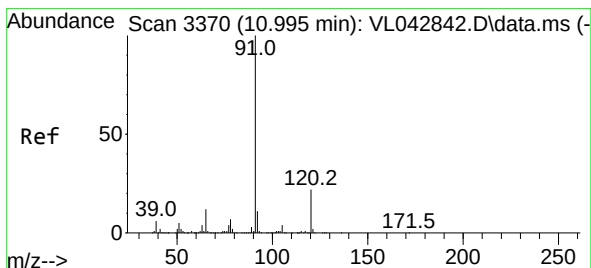
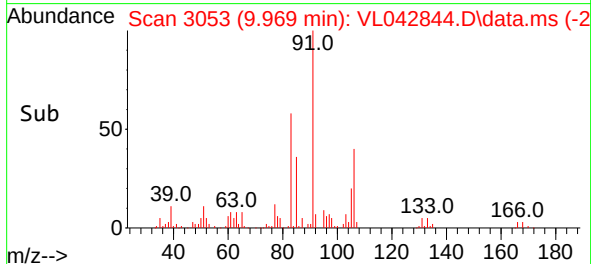
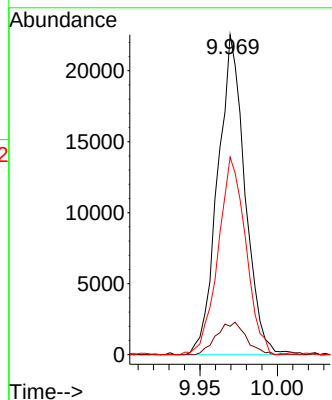
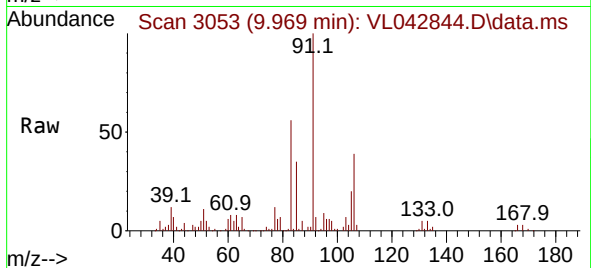
#63  
1,1,2,2-Tetrachloroethane  
Concen: 1.032 ppbv  
RT: 9.969 min Scan# 3053  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument : MSVOA\_L  
ClientSampleId : VSTDIC001

Tgt Ion: 83 Resp: 27410  
Ion Ratio Lower Upper  
83 100  
131 11.2 4.8 14.3  
85 63.5 32.3 96.8

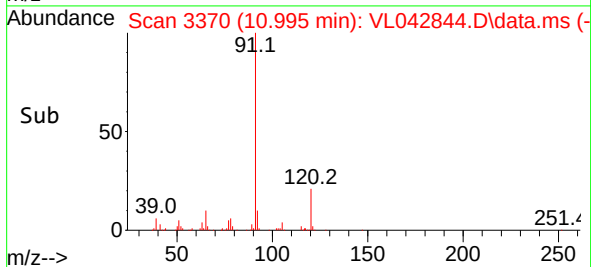
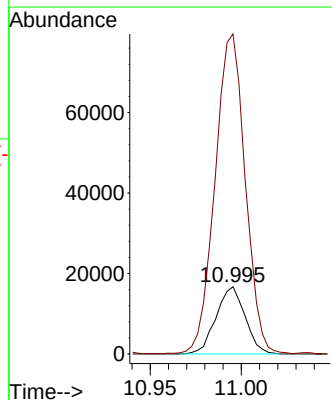
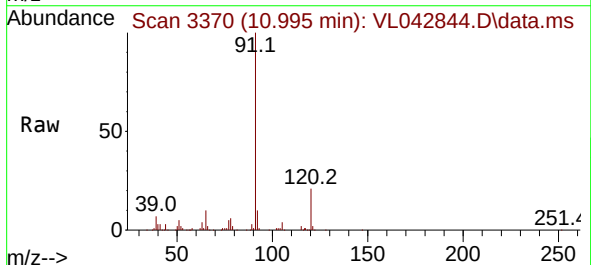
Manual Integrations  
APPROVED

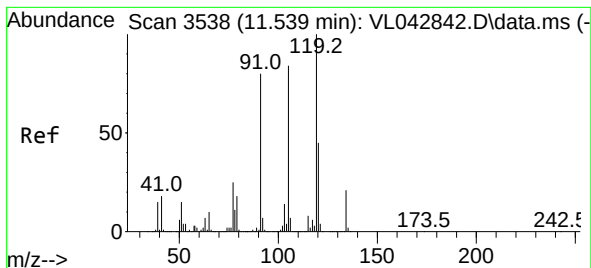
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#64  
n-propylbenzene  
Concen: 1.018 ppbv  
RT: 10.995 min Scan# 3370  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

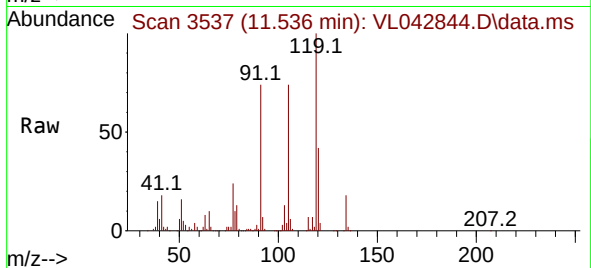
Tgt Ion:120 Resp: 18462  
Ion Ratio Lower Upper  
120 100  
91 496.0 375.8 563.6





#65  
tert-Butylbenzene  
Concen: 1.111 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

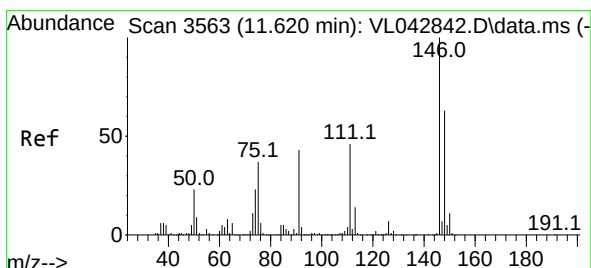
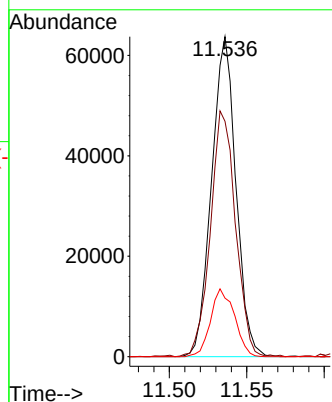
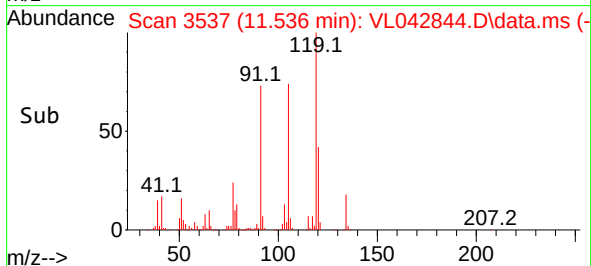
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



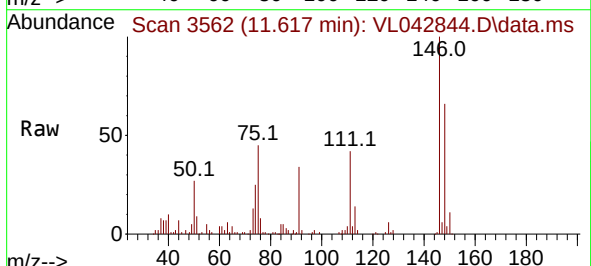
Tgt Ion: 119 Resp: 6961  
Ion Ratio Lower Upper  
119 100  
91 79.3 63.9 95.9  
134 20.9 17.0 25.4

Manual Integrations  
APPROVED

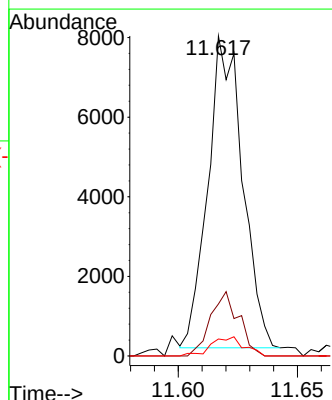
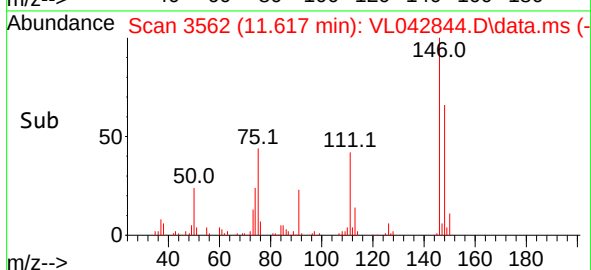
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

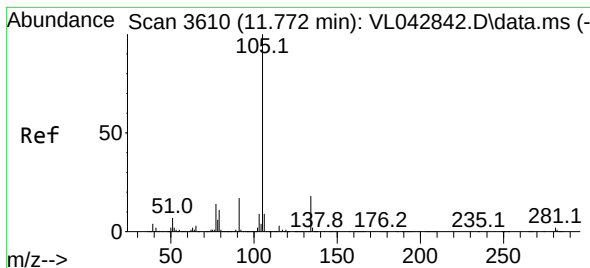


#66  
Benzyl Chloride  
Concen: 0.993 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41



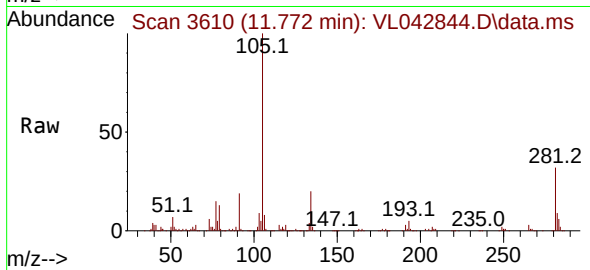
Tgt Ion: 91 Resp: 7900  
Ion Ratio Lower Upper  
91 100  
126 16.9 14.2 21.4  
128 5.8 5.0 7.6





#67  
 sec-Butylbenzene  
 Concen: 1.095 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

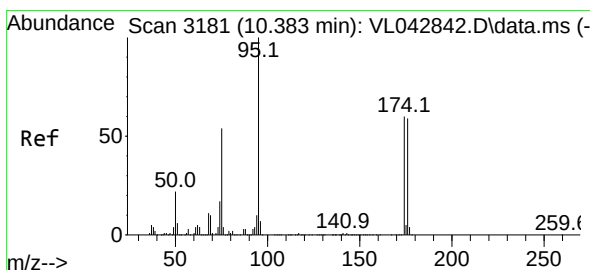
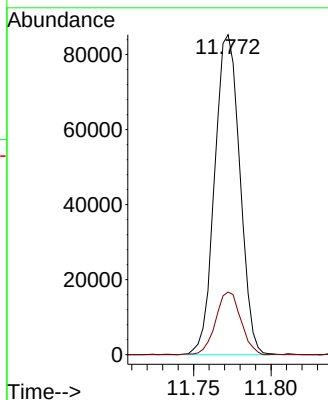
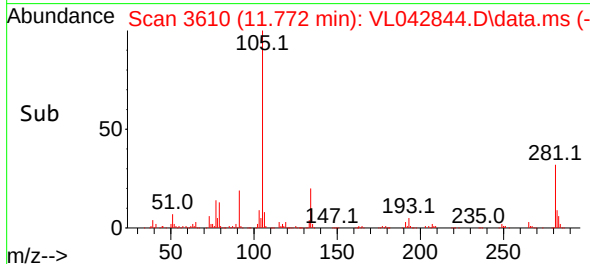
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001



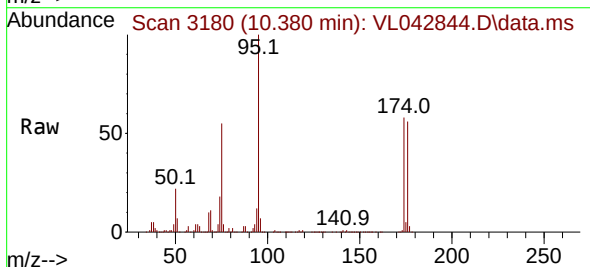
Tgt Ion:105 Resp: 96288  
 Ion Ratio Lower Upper  
 105 100  
 134 19.7 14.9 22.3

Manual Integrations  
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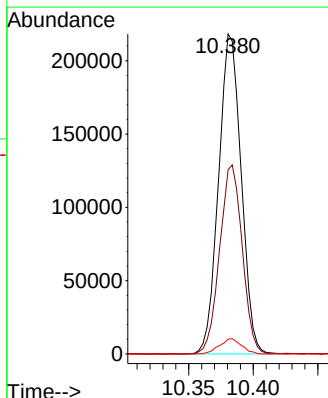
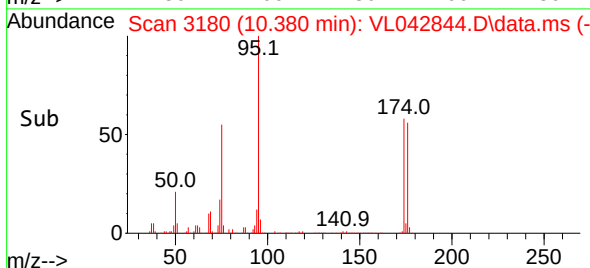
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

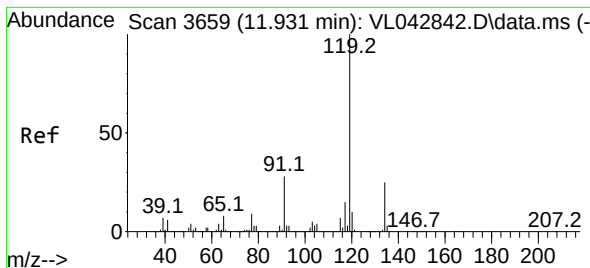


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.135 ppbv  
 RT: 10.380 min Scan# 3180  
 Delta R.T. -0.003 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41



Tgt Ion: 95 Resp: 265708  
 Ion Ratio Lower Upper  
 95 100  
 174 59.1 48.4 72.6  
 175 4.7 3.8 5.8





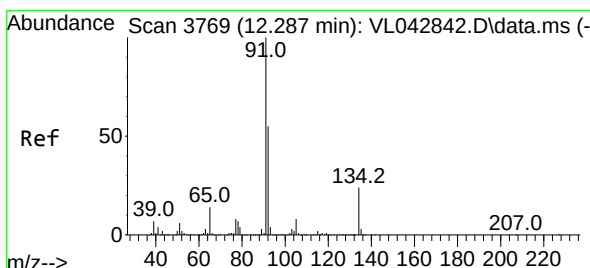
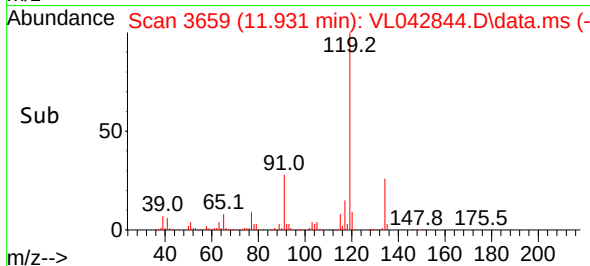
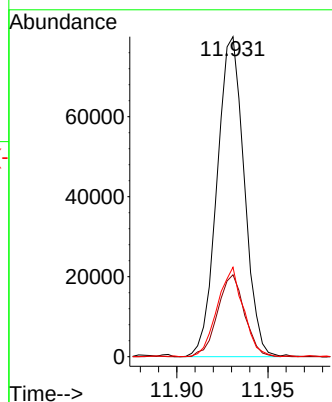
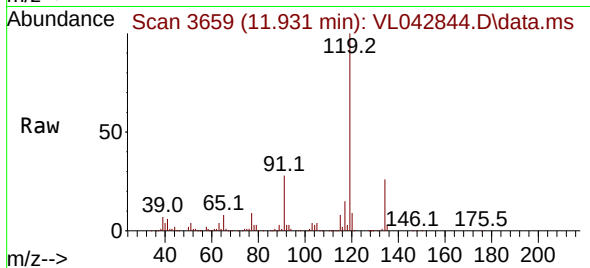
#69  
p-Isopropyltoluene  
Concen: 1.098 ppbv  
RT: 11.931 min Scan# 3659  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 82934 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 25.3  | 20.6  | 30.8  |
| 91       | 27.2  | 22.6  | 34.0  |

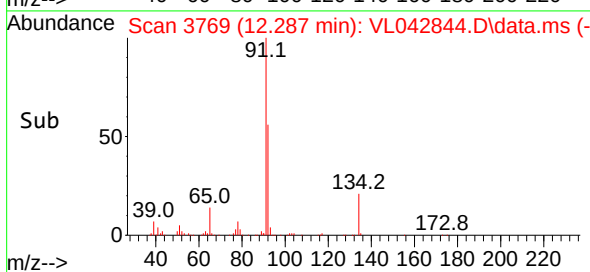
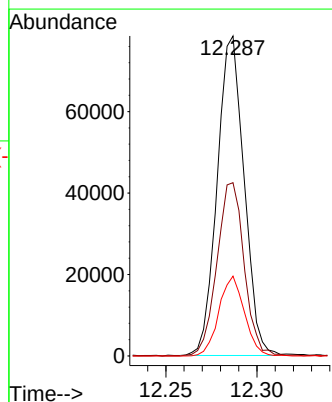
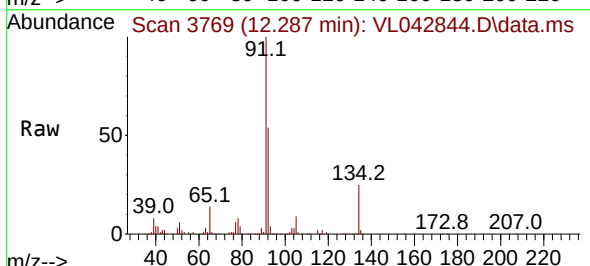
Manual Integrations  
APPROVED

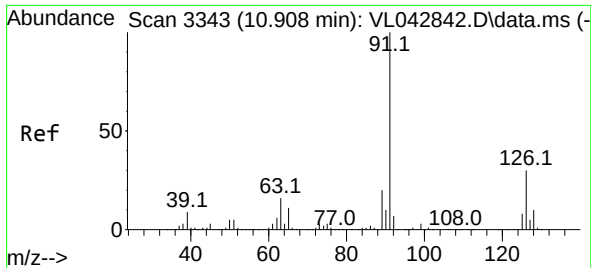
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#70  
n-Butylbenzene  
Concen: 1.075 ppbv  
RT: 12.287 min Scan# 3769  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 80511 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 55.2  | 44.6  | 66.8  |
| 134      | 23.7  | 19.0  | 28.4  |





#71  
2-Chlorotoluene  
Concen: 1.089 ppbv  
RT: 10.908 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

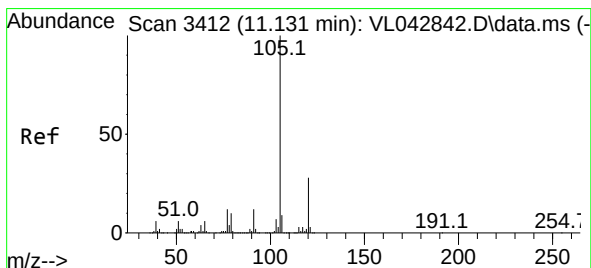
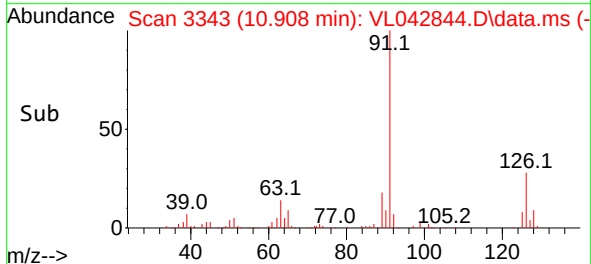
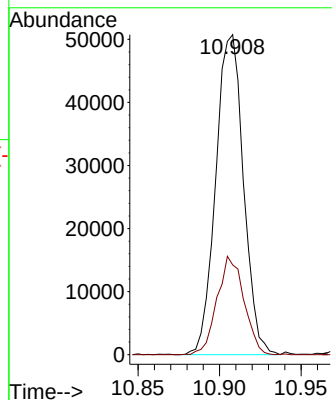
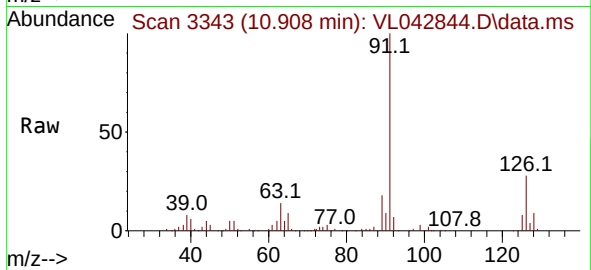
ClientSampleId :

VSTDIC001

Tgt Ion: 91 Resp: 6008  
Ion Ratio Lower Upper  
91 100  
126 29.7 12.0 47.8

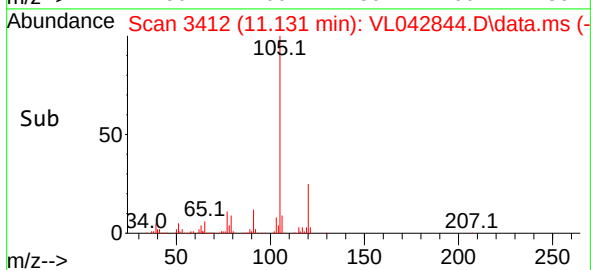
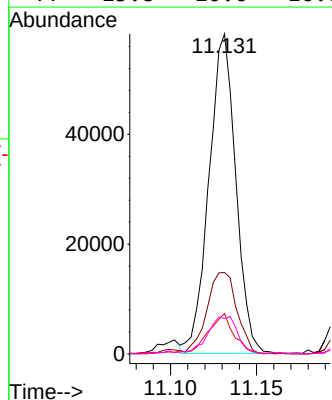
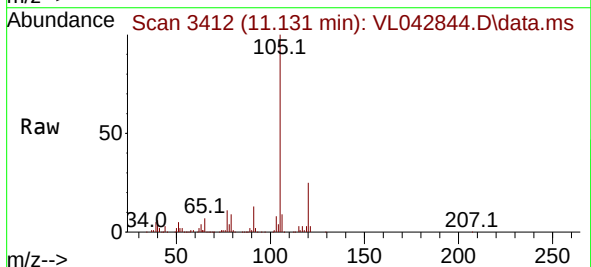
Manual Integrations  
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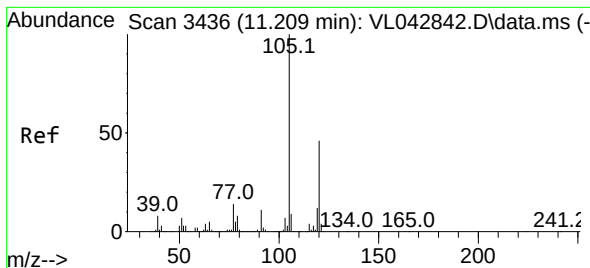
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#72  
4-Ethyltoluene  
Concen: 1.071 ppbv  
RT: 11.131 min Scan# 3412  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

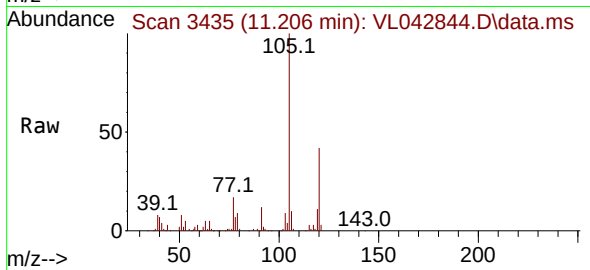
Tgt Ion:105 Resp: 63147  
Ion Ratio Lower Upper  
105 100  
120 29.9 23.4 35.2  
91 13.0 9.8 14.6  
77 13.8 10.6 16.0





#73  
1,3,5-Trimethylbenzene  
Concen: 1.070 ppbv  
RT: 11.206 min Scan# 3436  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

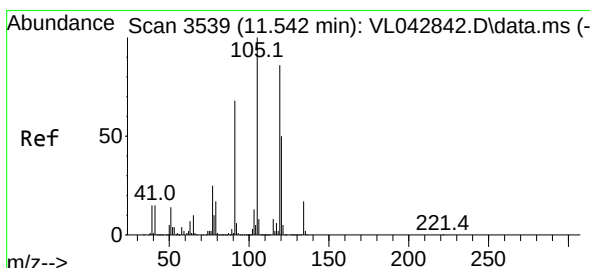
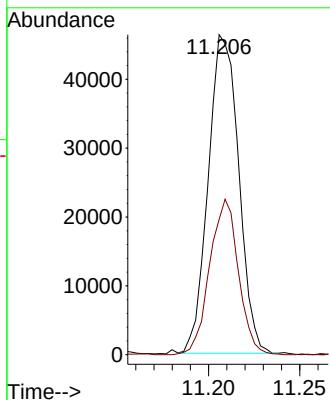
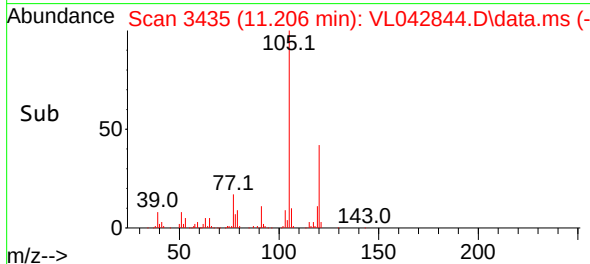
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



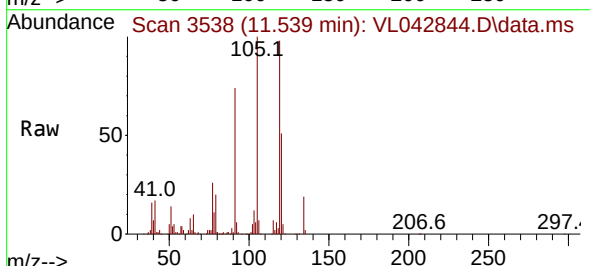
Tgt Ion:105 Resp: 53670  
Ion Ratio Lower Upper  
105 100  
120 42.3 36.6 54.8

Manual Integrations  
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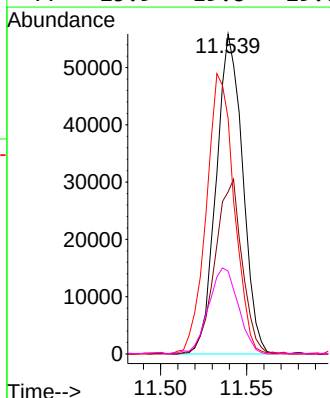
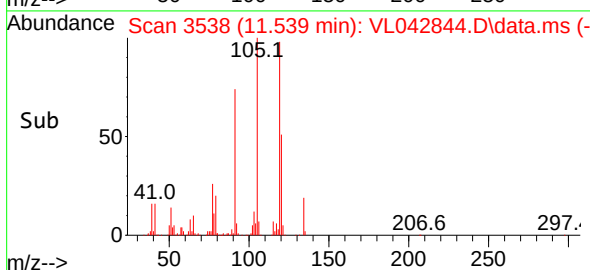
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

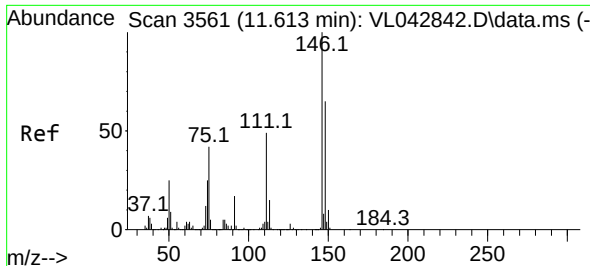


#74  
1,2,4-Trimethylbenzene  
Concen: 1.083 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41



Tgt Ion:105 Resp: 59633  
Ion Ratio Lower Upper  
105 100  
120 50.7 39.8 59.6  
91 73.3 54.2 81.4  
77 25.9 19.8 29.6





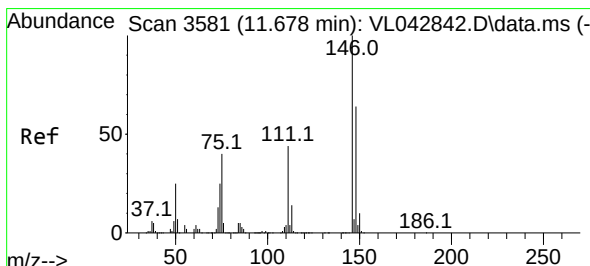
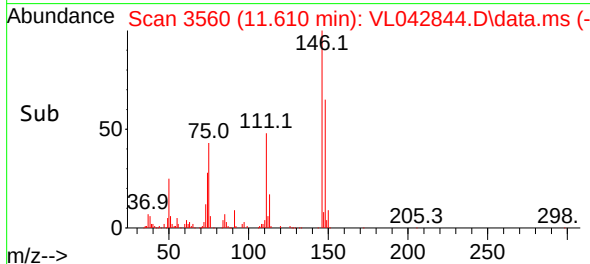
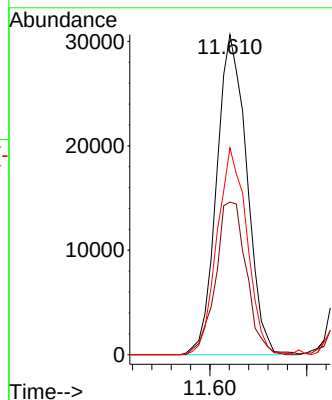
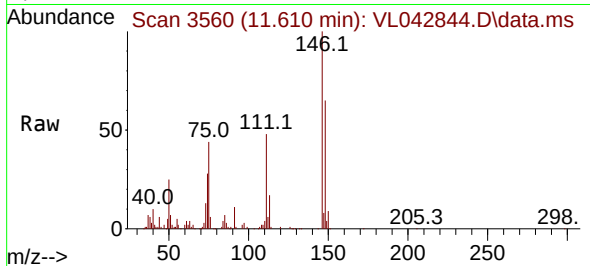
#75  
1,3-Dichlorobenzene  
Concen: 1.057 ppbv  
RT: 11.610 min Scan# 3561  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

Tgt Ion:146 Resp: 33061  
Ion Ratio Lower Upper  
146 100  
111 48.6 23.9 71.7  
148 64.1 31.4 94.0

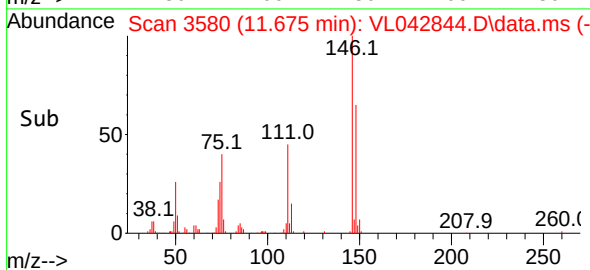
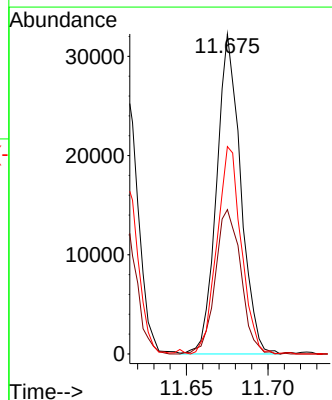
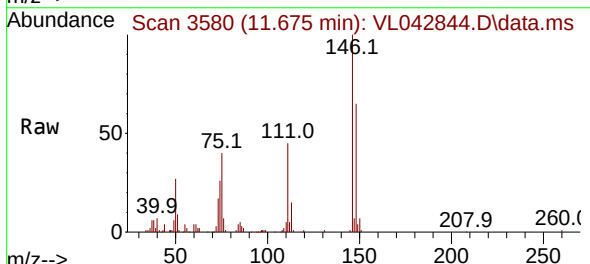
Manual Integrations  
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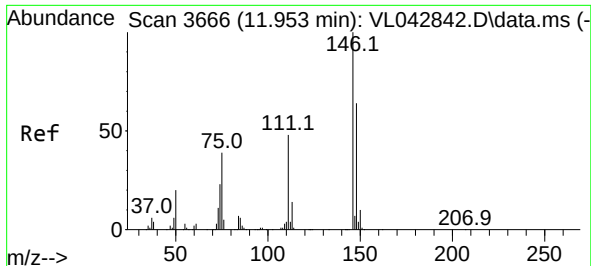
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#76  
1,4-Dichlorobenzene  
Concen: 1.045 ppbv  
RT: 11.675 min Scan# 3580  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion:146 Resp: 33064  
Ion Ratio Lower Upper  
146 100  
111 48.1 22.7 68.1  
148 66.0 31.8 95.3





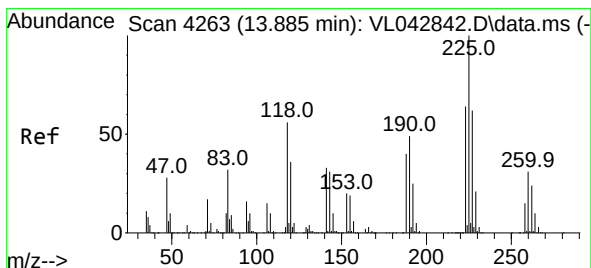
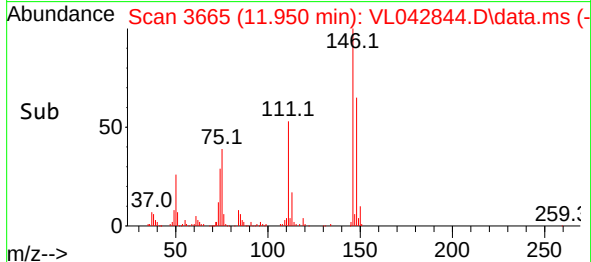
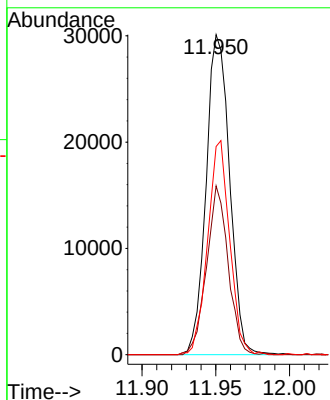
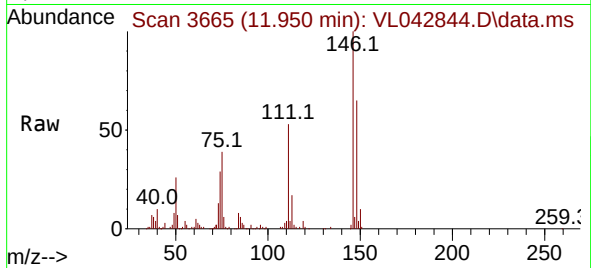
#77  
1,2-Dichlorobenzene  
Concen: 1.090 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion:146 Resp: 33404  
Ion Ratio Lower Upper  
146 100  
111 48.4 24.6 74.0  
148 62.7 32.0 96.0

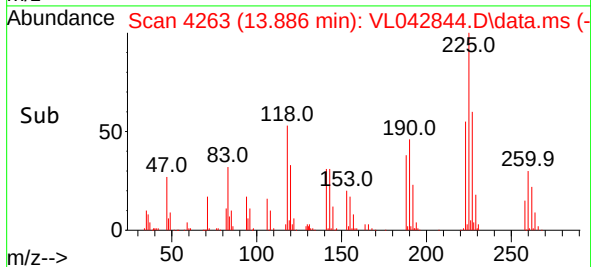
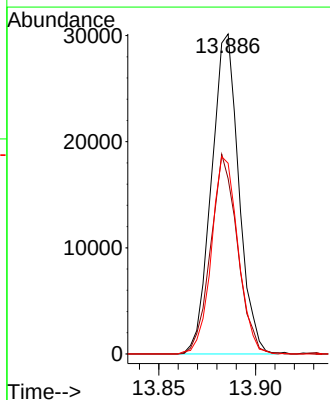
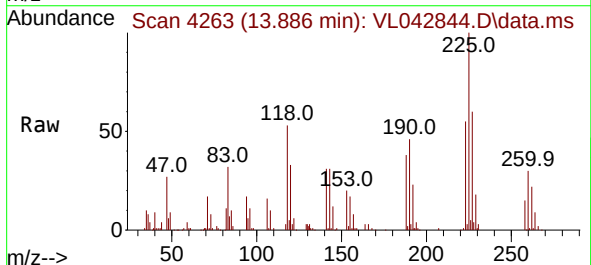
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

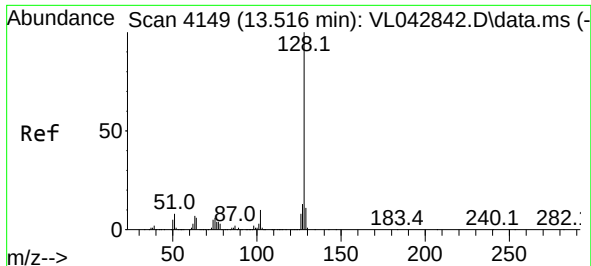


#78  
Hexachloro-1,3-Butadiene  
Concen: 1.177 ppbv  
RT: 13.886 min Scan# 4263  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion:225 Resp: 29555  
Ion Ratio Lower Upper  
225 100  
223 61.2 51.4 77.2  
227 60.0 51.9 77.9

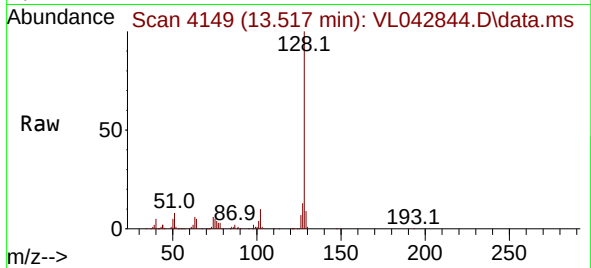






#79  
Naphthalene  
Concen: 1.169 ppbv  
RT: 13.517 min Scan# 4149  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

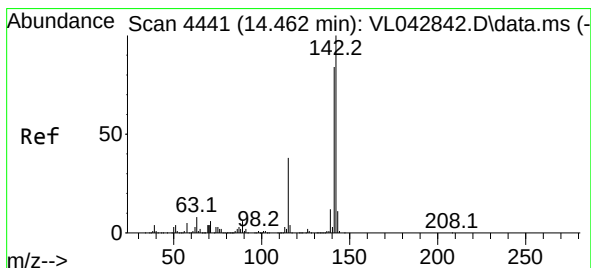
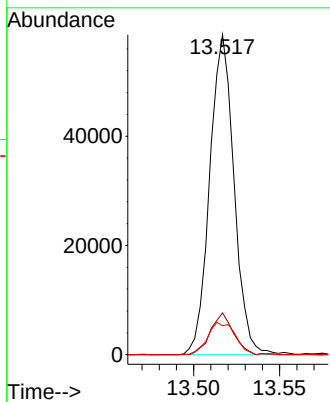
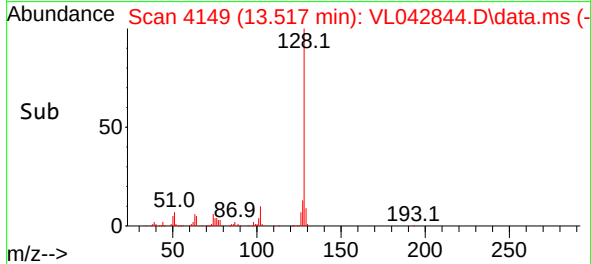
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001



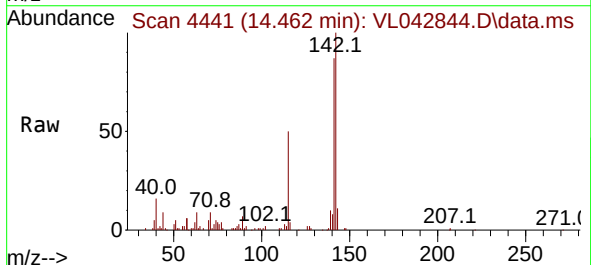
Tgt Ion:128 Resp: 57580  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.6 16.0  
129 9.1 8.9 13.3

Manual Integrations  
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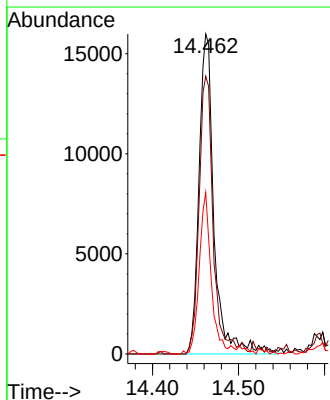
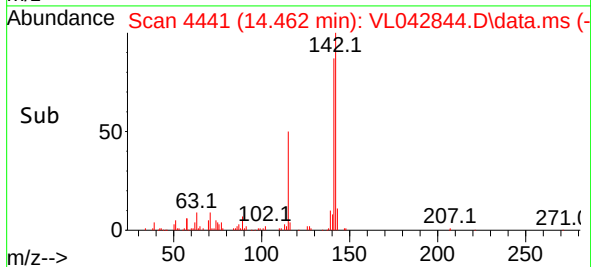
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

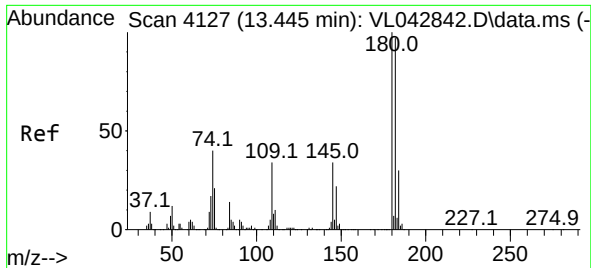


#80  
Naphthalene,2-methyl-  
Concen: 1.045 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41



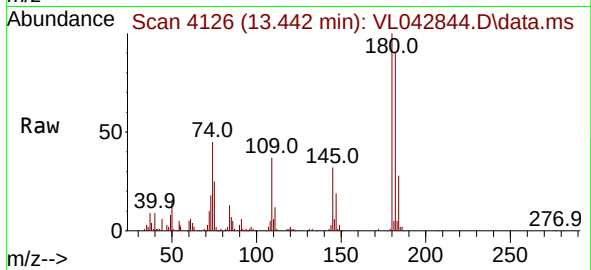
Tgt Ion:142 Resp: 19375  
Ion Ratio Lower Upper  
142 100  
141 81.6 67.0 100.6  
115 43.2 30.9 46.3





#81  
 1,2,4-Trichlorobenzene  
 Concen: 1.111 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

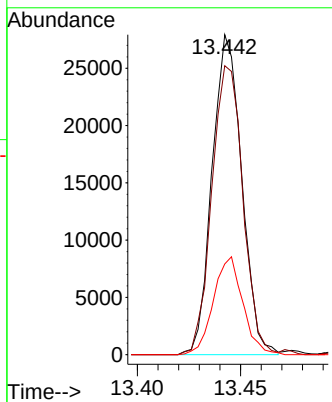
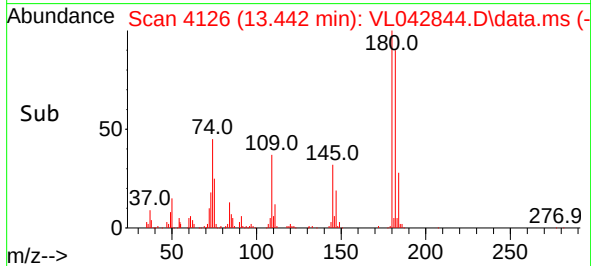
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001



|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 2786       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 95.5  | 76.9 115.3 |
| 184         | 30.3  | 24.5 36.7  |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042845.D  
 Acq On : 13 Aug 2025 10:17  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Aug 14 01:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 01:48:25 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025  
 Supervised By : Mahesh Dadoda 08/18/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.797 | 49   | 126879   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.968 | 114  | 396264   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.895 | 117  | 348005   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 262663 10.064 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

#### Target Compounds

|                                 |       |     |        |       |        | Qvalue |
|---------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane      | 1.502 | 85  | 9937   | 0.534 | ppbv   | 100    |
| 3) Chlorodifluoromethane        | 1.479 | 51  | 11115  | 0.540 | ppbv   | 96     |
| 4) Chloromethane                | 1.538 | 50  | 4112   | 0.548 | ppbv   | 90     |
| 5) Vinyl Chloride               | 1.586 | 62  | 3762   | 0.509 | ppbv   | 94     |
| 6) Bromomethane                 | 1.674 | 94  | 1576   | 0.533 | ppbv   | 82     |
| 7) Chloroethane                 | 1.709 | 64  | 1690   | 0.586 | ppbv # | 85     |
| 8) Dichlorotetrafluoroethane    | 1.557 | 85  | 8079   | 0.531 | ppbv   | 95     |
| 9) Propene                      | 1.489 | 41  | 5225   | 0.589 | ppbv   | 91     |
| 10) Heptane                     | 4.998 | 43  | 12747  | 0.537 | ppbv   | 93     |
| 11) Trichlorofluoromethane      | 1.884 | 101 | 10238  | 0.558 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluoro... | 2.146 | 101 | 7984   | 0.546 | ppbv   | 98     |
| 13) Ethanol                     | 1.725 | 45  | 562    | 0.639 | ppbv # | 1      |
| 14) Bromoethene                 | 1.787 | 108 | 2932   | 0.554 | ppbv # | 85     |
| 15) Acetone                     | 1.842 | 43  | 10836  | 0.646 | ppbv   | 98     |
| 16) 1,3-Butadiene               | 1.612 | 39  | 4970   | 0.653 | ppbv   | 99     |
| 17) tert-Butyl alcohol          | 2.049 | 59  | 12182  | 0.612 | ppbv # | 89     |
| 18) 1,1-Dichloroethene          | 2.039 | 96  | 3501   | 0.545 | ppbv   | 92     |
| 19) Isopropyl Alcohol           | 1.891 | 45  | 6194   | 0.618 | ppbv # | 56     |
| 20) Methylene Chloride          | 2.069 | 84  | 5025   | 0.715 | ppbv   | 90     |
| 21) Allyl Chloride              | 2.104 | 41  | 7120   | 0.600 | ppbv # | 76     |
| 22) trans-1,2-Dichloroethene    | 2.350 | 96  | 3996   | 0.556 | ppbv   | 96     |
| 23) Vinyl Acetate               | 2.470 | 43  | 13709  | 0.621 | ppbv # | 98     |
| 24) 1,1-Dichloroethane          | 2.418 | 63  | 8354   | 0.562 | ppbv # | 96     |
| 25) Ethyl Acetate               | 2.845 | 43  | 22148  | 0.545 | ppbv # | 96     |
| 26) Hexane                      | 2.832 | 57  | 9879   | 0.527 | ppbv   | 85     |
| 27) Carbon Disulfide            | 2.156 | 76  | 9539   | 0.523 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether     | 2.447 | 73  | 5284   | 0.553 | ppbv # | 62     |
| 29) Chloroform                  | 2.858 | 83  | 14586  | 0.545 | ppbv   | 100    |
| 30) Cyclohexane                 | 3.868 | 84  | 9037   | 0.550 | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene      | 2.729 | 61  | 10308  | 0.550 | ppbv # | 86     |
| 32) 1,1,1-Trichloroethane       | 3.379 | 97  | 14011  | 0.494 | ppbv   | 97     |
| 34) 2-Butanone                  | 2.567 | 43  | 14923  | 0.558 | ppbv   | 100    |
| 35) Carbon Tetrachloride        | 3.774 | 117 | 13507  | 0.494 | ppbv   | 97     |
| 36) Benzene                     | 3.671 | 78  | 20073  | 0.529 | ppbv   | 98     |
| 37) 1,2-Dichloroethane          | 3.230 | 62  | 10141  | 0.512 | ppbv # | 93     |
| 38) Trichloroethene             | 4.564 | 130 | 9918   | 0.572 | ppbv # | 88     |
| 39) 1,2-Dichloropropane         | 4.334 | 63  | 7491   | 0.541 | ppbv   | 86     |
| 40) 1,4-Dioxane                 | 4.613 | 88  | 3743m  | 0.577 | ppbv   |        |
| 41) Tetrahydrofuran             | 3.072 | 42  | 7827   | 0.525 | ppbv   | 93     |
| 42) Bromodichloromethane        | 4.509 | 83  | 15580  | 0.527 | ppbv # | 94     |
| 43) Methyl Methacrylate         | 4.897 | 69  | 8461m  | 0.544 | ppbv   |        |
| 44) 2,2,4-Trimethylpentane      | 4.661 | 57  | 34237m | 0.537 | ppbv   |        |
| 45) t-1,3-Dichloropropene       | 6.435 | 75  | 8911m  | 0.505 | ppbv   |        |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042845.D  
 Acq On : 13 Aug 2025 10:17  
 Operator : SY/MD  
 Sample : VSTDIC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Aug 14 01:48:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 01:48:25 2025  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

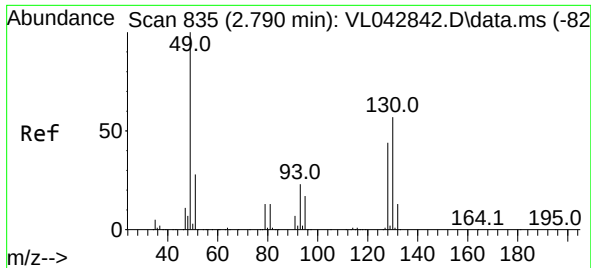
### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025  
 Supervised By : Mahesh Dadoda 08/18/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.622  | 75   | 11259m   | 0.508 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.603  | 97   | 7835m    | 0.534 | ppbv   |          |
| 48) Dibromochloromethane      | 7.406  | 129  | 11805    | 0.497 | ppbv   | 100      |
| 49) Bromoform                 | 9.497  | 173  | 9232     | 0.471 | ppbv   | 95       |
| 50) 4-Methyl-2-Pentanone      | 5.778  | 43   | 19028m   | 0.524 | ppbv   |          |
| 51) 2-Hexanone                | 7.458  | 43   | 14329    | 0.503 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.244  | 164  | 7304     | 0.531 | ppbv # | 87       |
| 53) Toluene                   | 6.956  | 91   | 24155m   | 0.535 | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.668  | 107  | 10873    | 0.507 | ppbv   | 90       |
| 56) 1,1,1,2-Tetrachloroethane | 8.940  | 131  | 9300     | 0.517 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.937  | 112  | 17845    | 0.539 | ppbv # | 96       |
| 58) Ethyl Benzene             | 9.370  | 91   | 32261    | 0.525 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.561  | 91   | 50372m   | 1.045 | ppbv   |          |
| 60) o-Xylene                  | 9.979  | 91   | 26662    | 0.551 | ppbv   | 100      |
| 61) Styrene                   | 9.885  | 104  | 12379    | 0.546 | ppbv   | 95       |
| 62) Isopropylbenzene          | 10.552 | 105  | 37401    | 0.529 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.976  | 83   | 13828    | 0.523 | ppbv   | 95       |
| 64) n-propylbenzene           | 10.998 | 120  | 9922     | 0.550 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.542 | 119  | 33183    | 0.532 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.626 | 91   | 4039     | 0.510 | ppbv # | 97       |
| 67) sec-Butylbenzene          | 11.778 | 105  | 46433    | 0.530 | ppbv   | 96       |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 40686    | 0.541 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.290 | 91   | 38867    | 0.521 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.911 | 91   | 29736    | 0.541 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.138 | 105  | 30234    | 0.515 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 26942    | 0.540 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.545 | 105  | 29750    | 0.543 | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 11.617 | 146  | 16311    | 0.524 | ppbv   | 95       |
| 76) 1,4-Dichlorobenzene       | 11.681 | 146  | 16803    | 0.533 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.956 | 146  | 16306    | 0.535 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 14165    | 0.567 | ppbv   | 99       |
| 79) Naphthalene               | 13.520 | 128  | 24056    | 0.491 | ppbv   | 96       |
| 80) Naphthalene,2-methyl-     | 14.465 | 142  | 7482     | 0.405 | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 13.449 | 180  | 10844    | 0.434 | ppbv   | 97       |

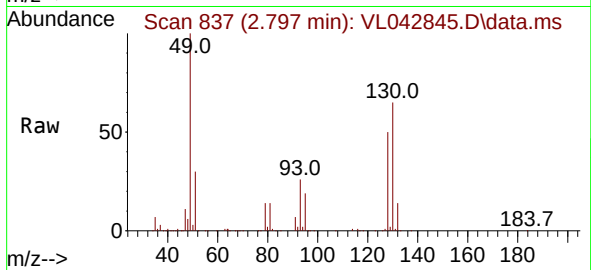
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.797 min Scan# 835  
Delta R.T. 0.007 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

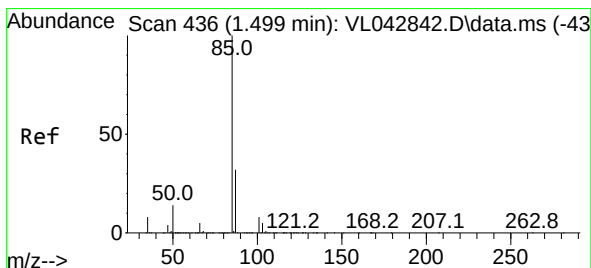
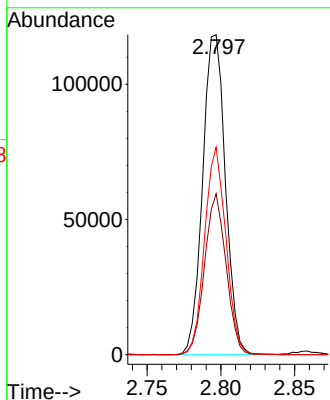
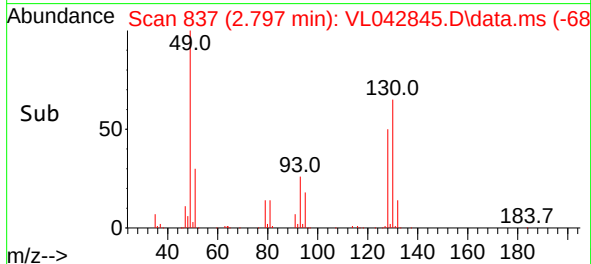
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 49 Resp: 126879  
Ion Ratio Lower Upper  
49 100  
128 47.7 23.7 71.1  
130 60.9 30.6 91.6

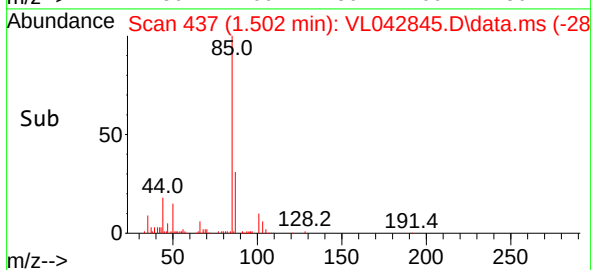
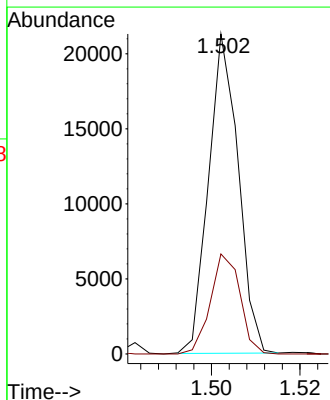
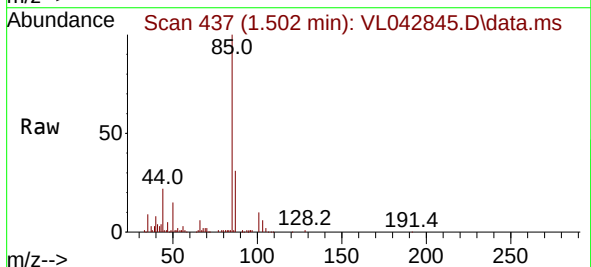
Manual Integrations  
APPROVED

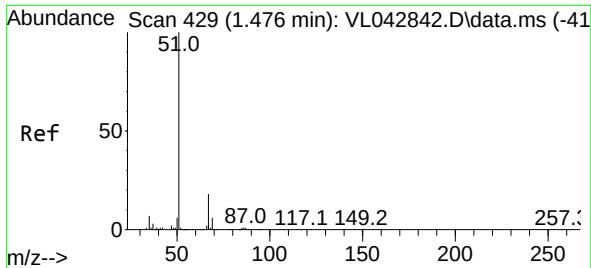
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#2  
Dichlorodifluoromethane  
Concen: 0.534 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 9937  
Ion Ratio Lower Upper  
85 100  
87 31.3 25.3 37.9





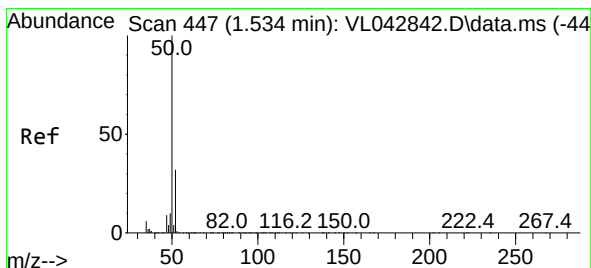
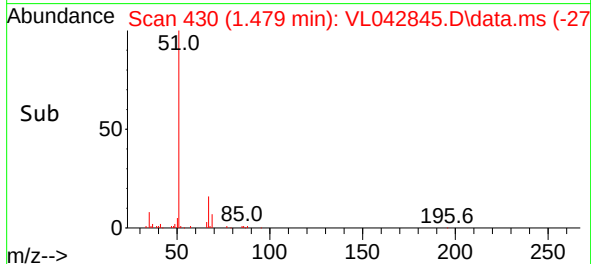
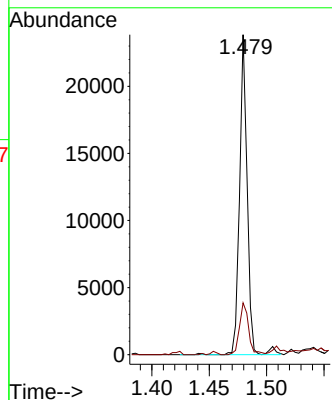
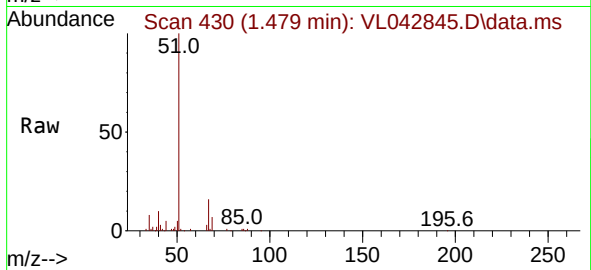
#3  
Chlorodifluoromethane  
Concen: 0.540 ppbv  
RT: 1.479 min Scan# 411  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 51 Resp: 1111  
Ion Ratio Lower Upper  
51 100  
67 20.5 14.9 22.3

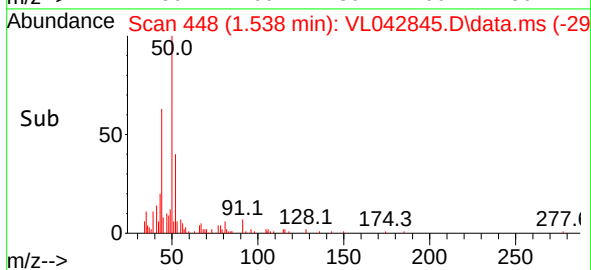
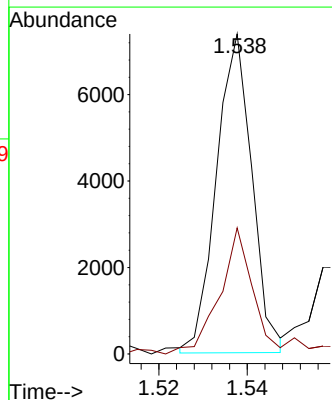
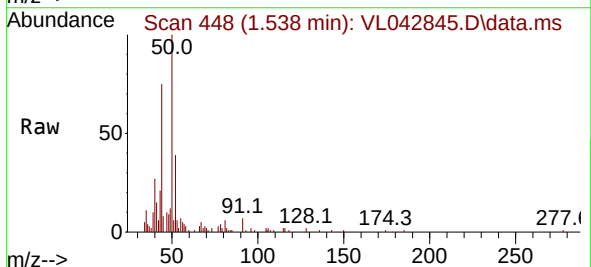
Manual Integrations  
APPROVED

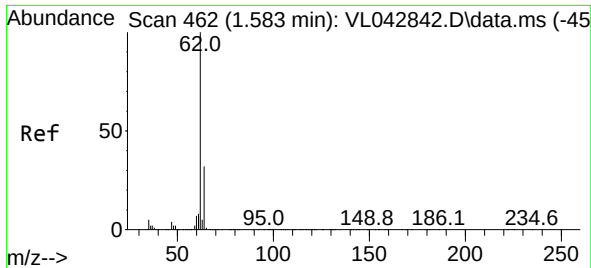
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#4  
Chloromethane  
Concen: 0.548 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

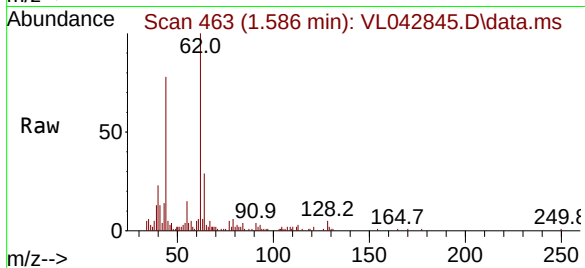
Tgt Ion: 50 Resp: 4112  
Ion Ratio Lower Upper  
50 100  
52 38.2 25.9 38.9





#5  
 Vinyl Chloride  
 Concen: 0.509 ppbv  
 RT: 1.586 min Scan# 40  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

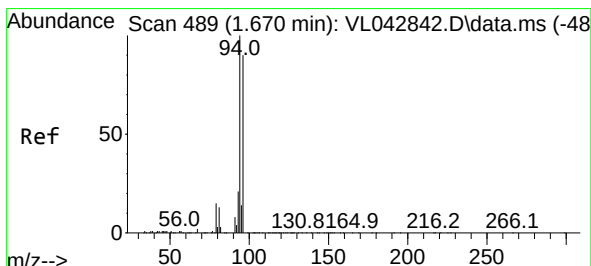
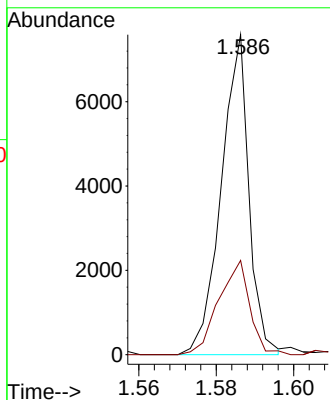
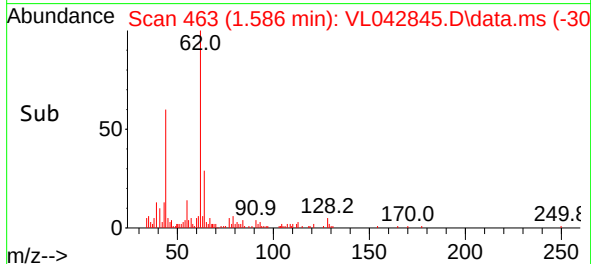
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5



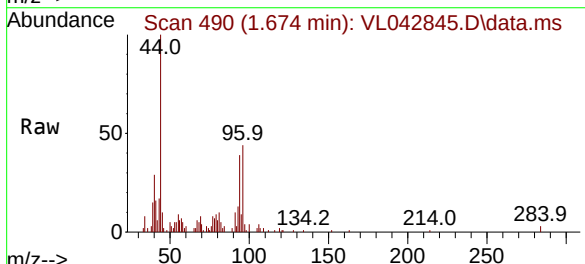
Tgt Ion: 62 Resp: 3762  
 Ion Ratio Lower Upper  
 62 100  
 64 28.3 25.4 38.2

Manual Integrations  
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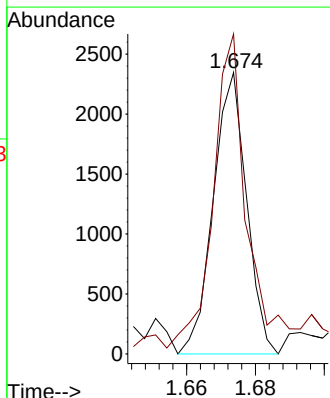
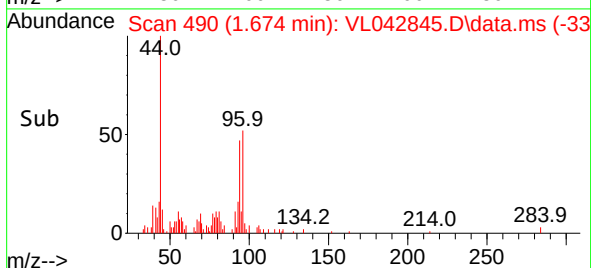
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



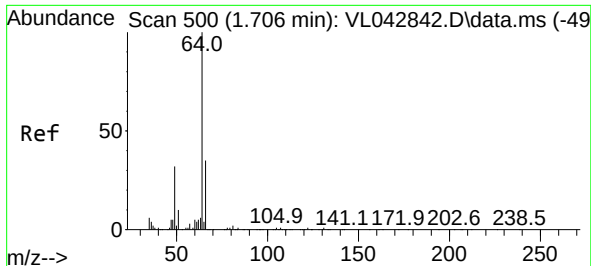
#6  
 Bromomethane  
 Concen: 0.533 ppbv  
 RT: 1.674 min Scan# 490  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17



Tgt Ion: 94 Resp: 1576  
 Ion Ratio Lower Upper  
 94 100  
 96 106.9 72.1 108.1

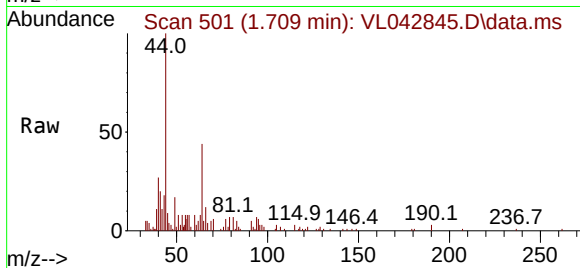






#7  
Chloroethane  
Concen: 0.586 ppbv  
RT: 1.709 min Scan# 501  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

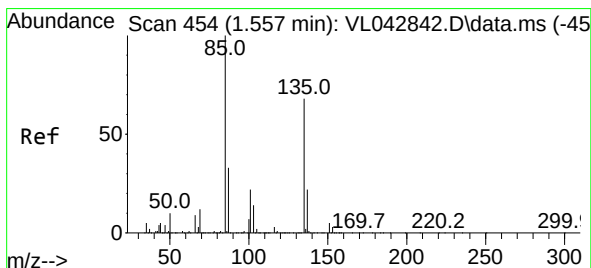
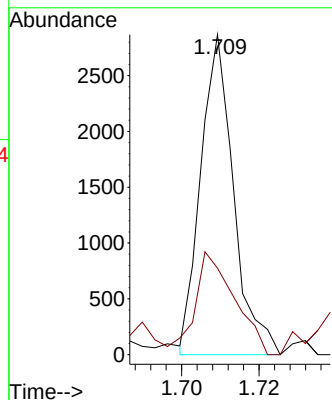
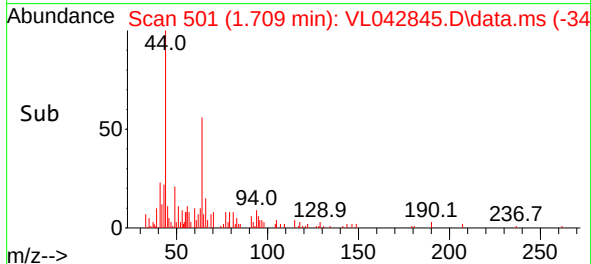
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



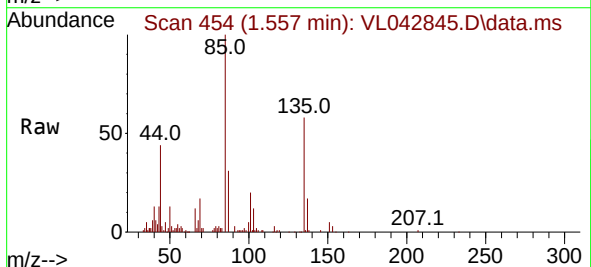
Tgt Ion: 64 Resp: 1690  
Ion Ratio Lower Upper  
64 100  
66 27.0 28.6 42.8

Manual Integrations  
APPROVED

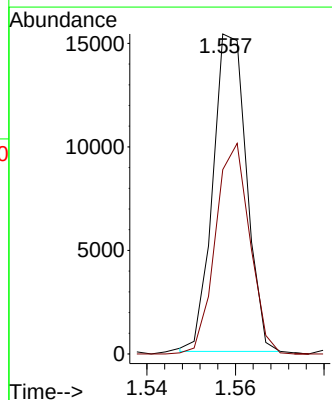
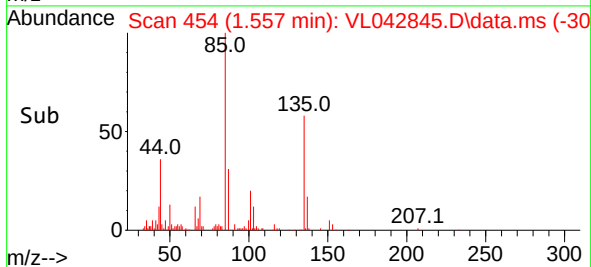
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

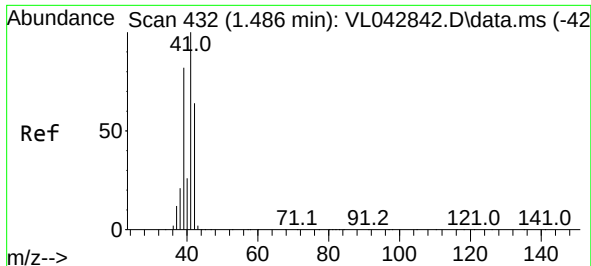


#8  
Dichlorotetrafluoroethane  
Concen: 0.531 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



Tgt Ion: 85 Resp: 8079  
Ion Ratio Lower Upper  
85 100  
135 67.7 51.2 76.8





#9

Propene

Concen: 0.589 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_L

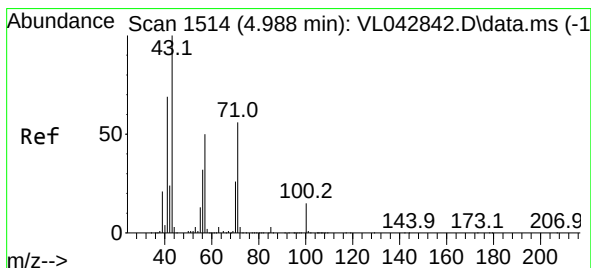
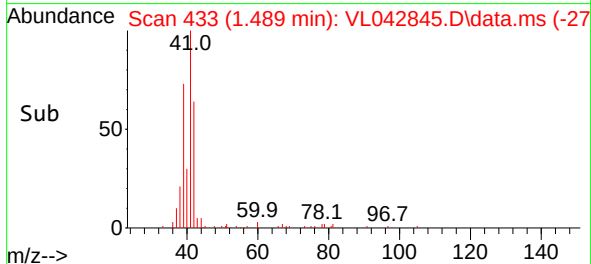
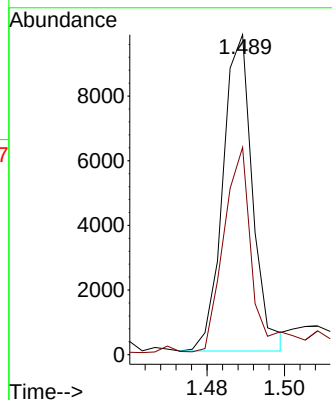
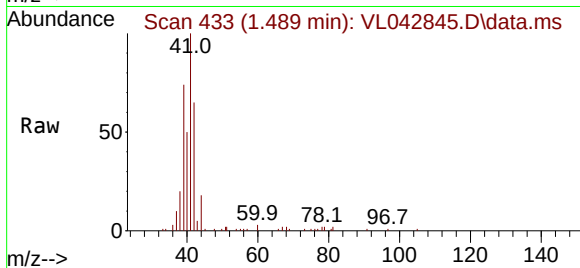
ClientSampleId :

VSTDIC0.5

Tgt Ion: 41 Resp: 5225  
 Ion Ratio Lower Upper  
 41 100  
 42 73.7 53.0 79.4

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



#10

Heptane

Concen: 0.537 ppbv

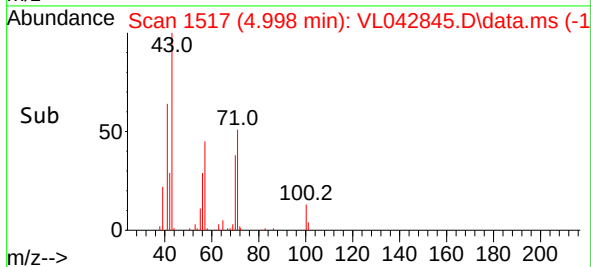
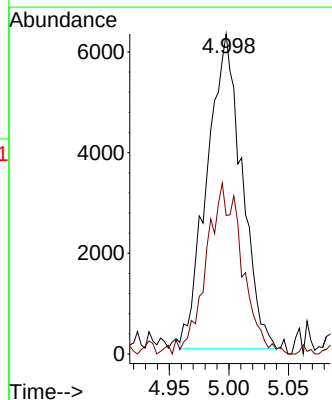
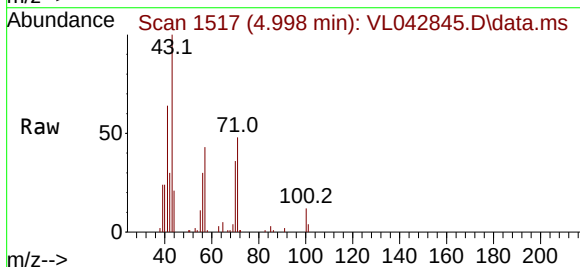
RT: 4.998 min Scan# 1517

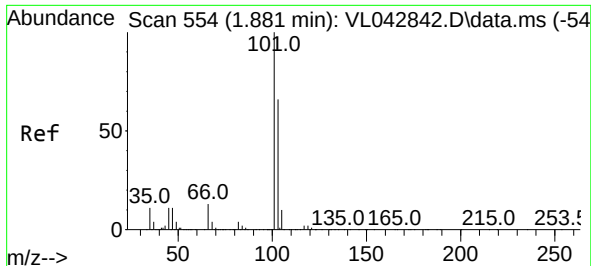
Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

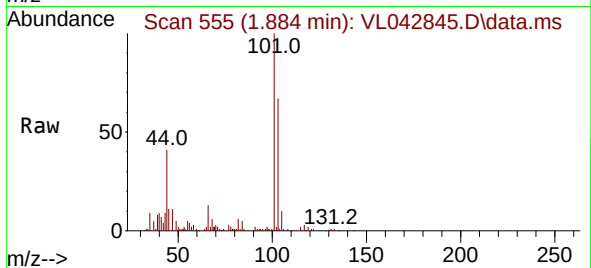
Tgt Ion: 43 Resp: 12747  
 Ion Ratio Lower Upper  
 43 100  
 57 56.9 41.4 62.0





#11  
Trichlorofluoromethane  
Concen: 0.558 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

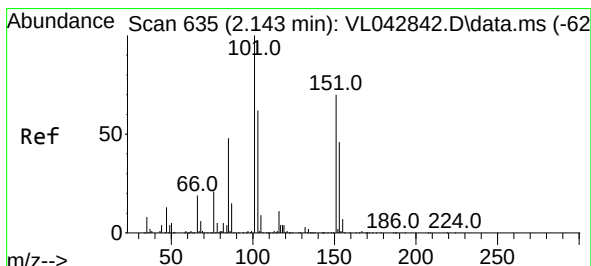
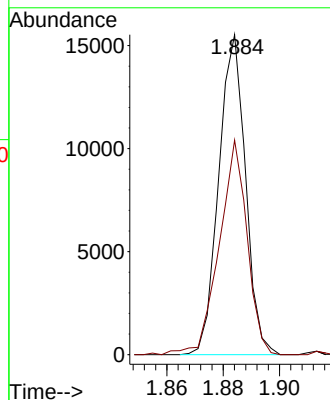
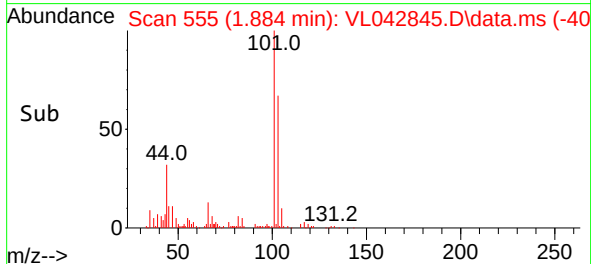
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



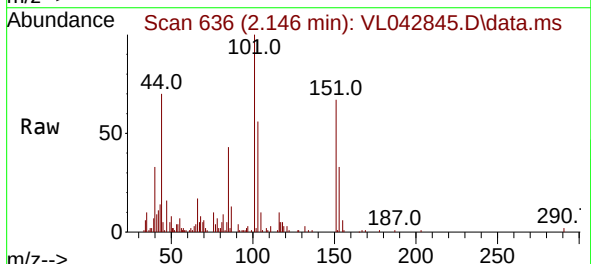
Tgt Ion:101 Resp: 10238  
Ion Ratio Lower Upper  
101 100  
103 67.0 52.5 78.7

Manual Integrations  
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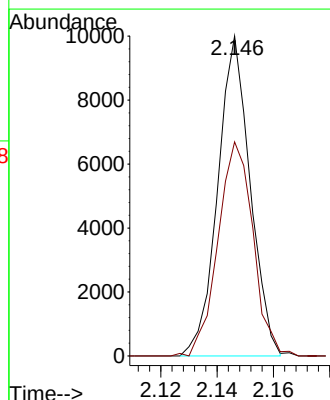
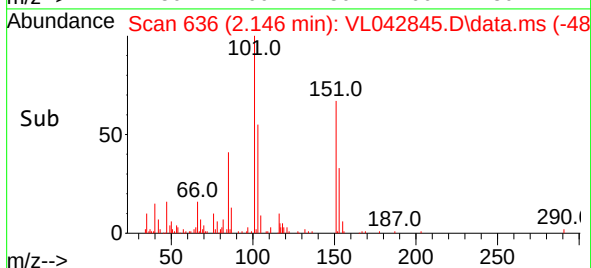
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

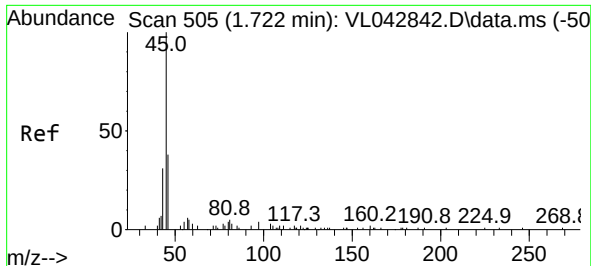


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.546 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



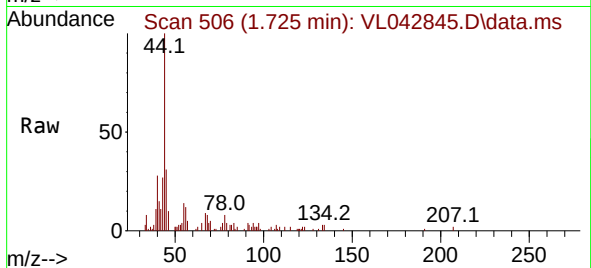
Tgt Ion:101 Resp: 7984  
Ion Ratio Lower Upper  
101 100  
151 72.3 56.4 84.6





#13  
Ethanol  
Concen: 0.639 ppbv  
RT: 1.725 min Scan# 506  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

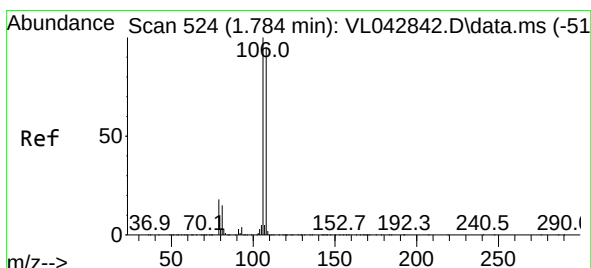
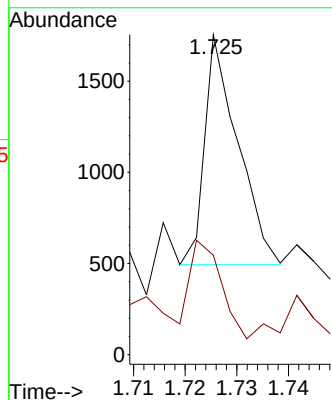
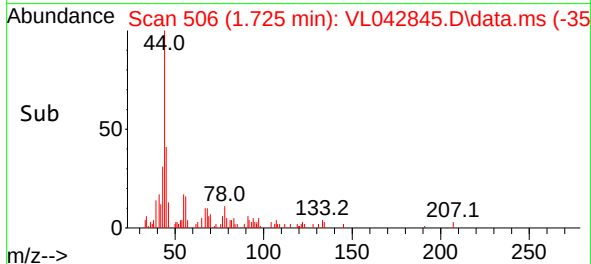
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



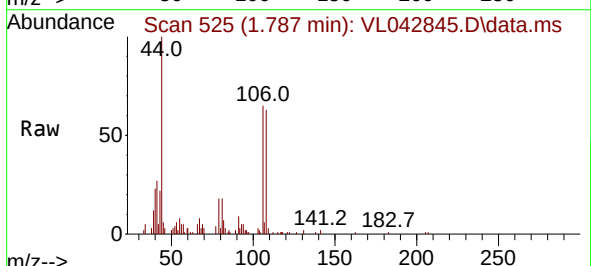
Tgt Ion: 45 Resp: 562  
Ion Ratio Lower Upper  
45 100  
46 131.5 17.5 69.9

Manual Integrations  
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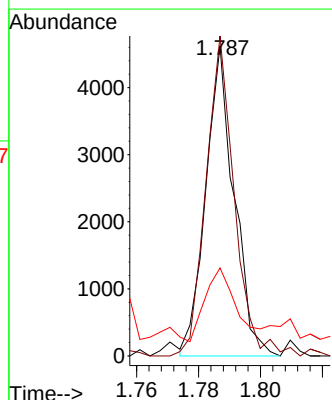
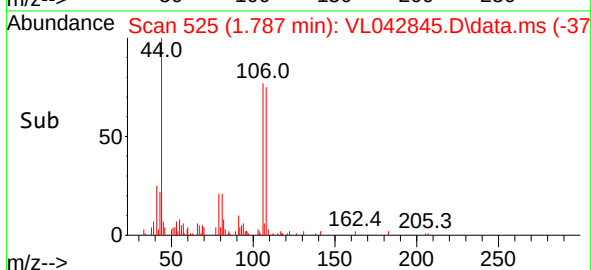
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

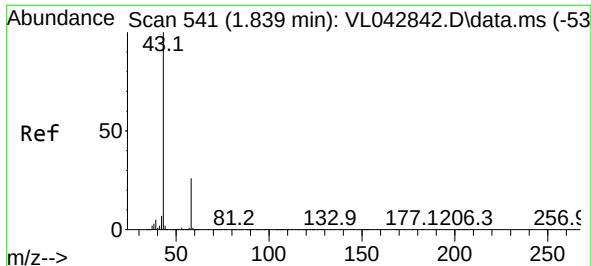


#14  
Bromoethene  
Concen: 0.554 ppbv  
RT: 1.787 min Scan# 525  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



Tgt Ion:108 Resp: 2932  
Ion Ratio Lower Upper  
108 100  
106 106.1 85.1 127.7  
79 62.6 16.3 24.5





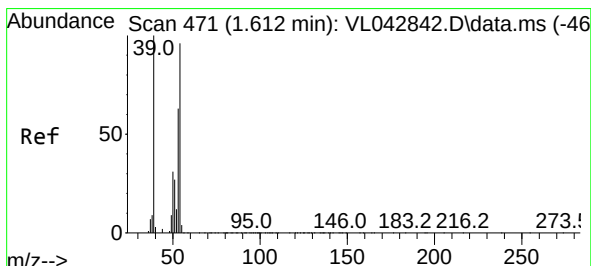
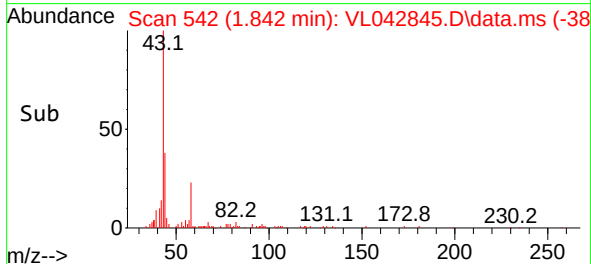
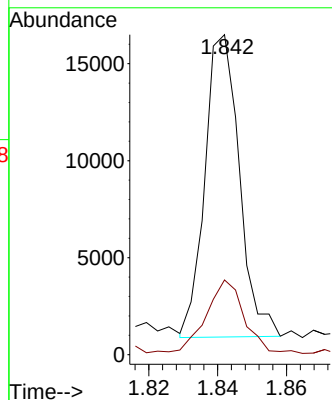
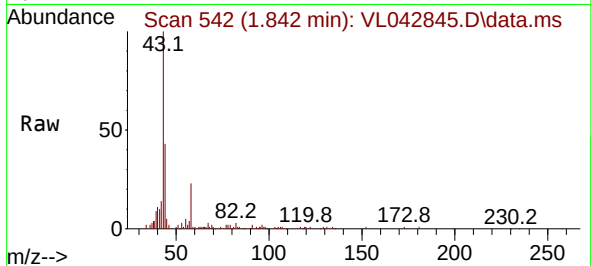
#15  
Acetone  
Concen: 0.646 ppbv  
RT: 1.842 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 43 Resp: 10830  
Ion Ratio Lower Upper  
43 100  
58 26.8 22.4 33.6

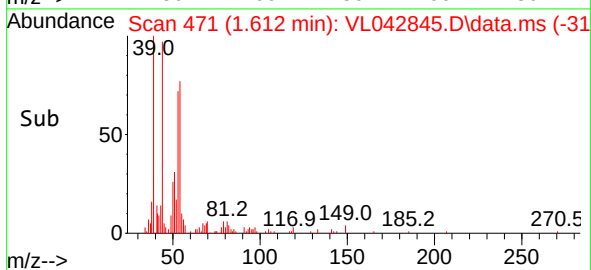
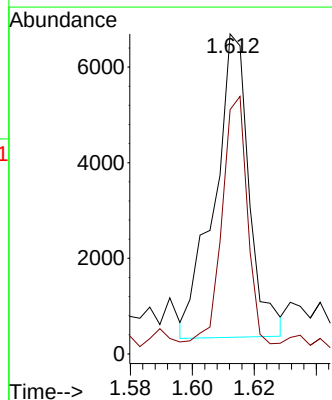
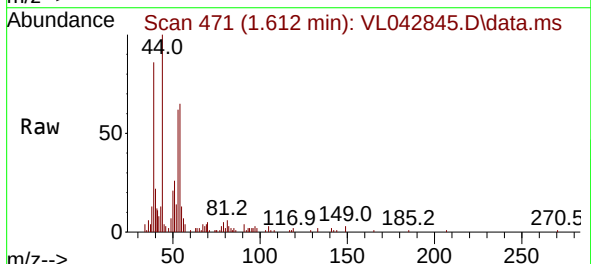
Manual Integrations  
APPROVED

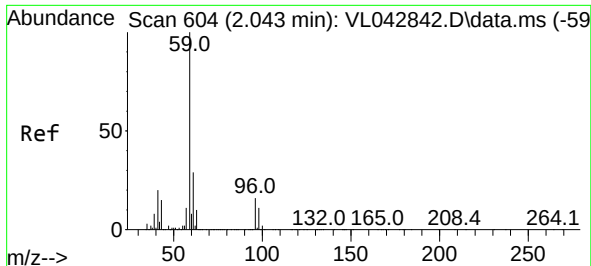
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#16  
1,3-Butadiene  
Concen: 0.653 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 39 Resp: 4970  
Ion Ratio Lower Upper  
39 100  
54 78.6 63.6 95.4





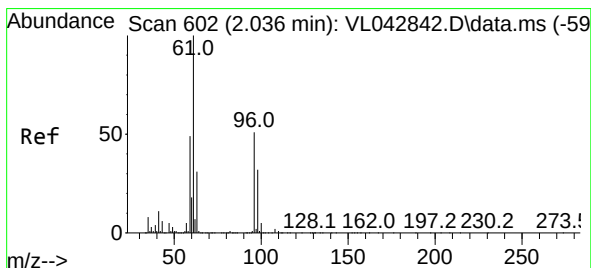
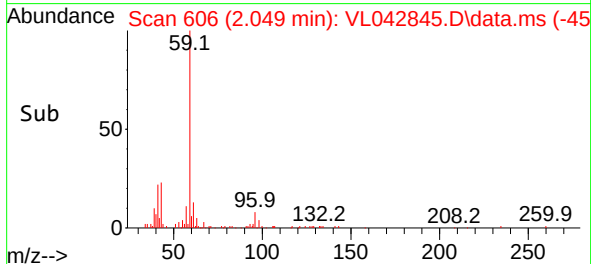
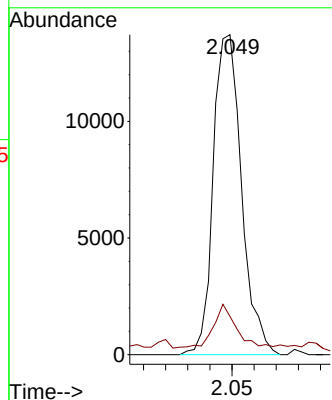
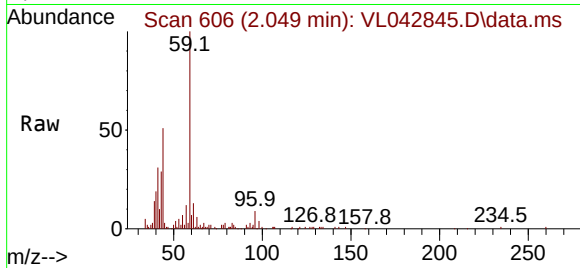
#17  
tert-Butyl alcohol  
Concen: 0.612 ppbv  
RT: 2.049 min Scan# 604  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 59 Resp: 1218  
Ion Ratio Lower Upper  
59 100  
57 15.3 9.0 13.4

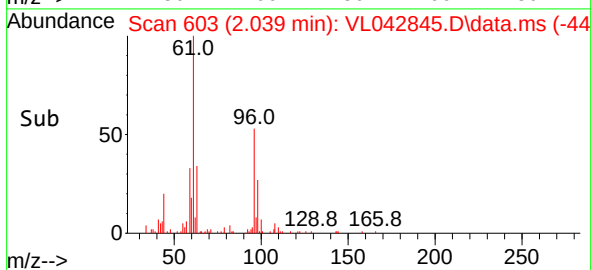
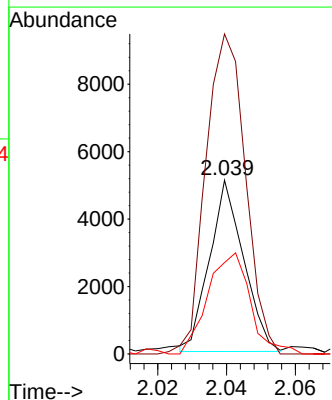
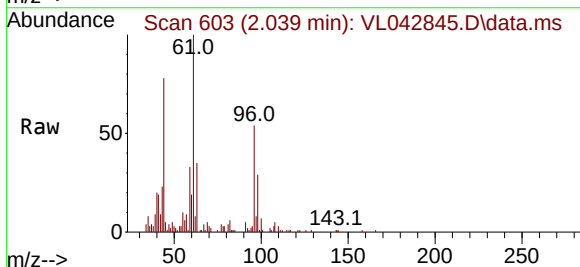
Manual Integrations  
APPROVED

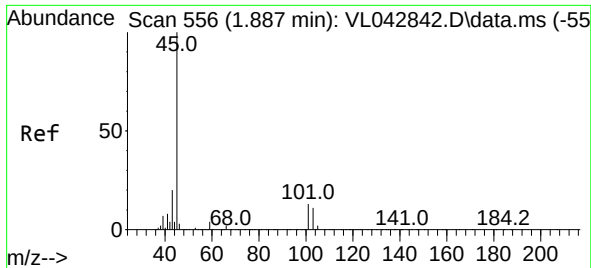
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#18  
1,1-Dichloroethene  
Concen: 0.545 ppbv  
RT: 2.039 min Scan# 603  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 96 Resp: 3501  
Ion Ratio Lower Upper  
96 100  
61 188.2 158.2 237.4  
98 53.8 50.6 76.0





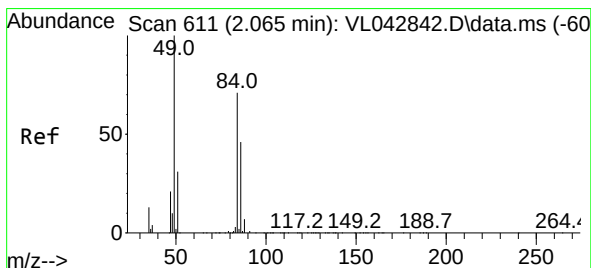
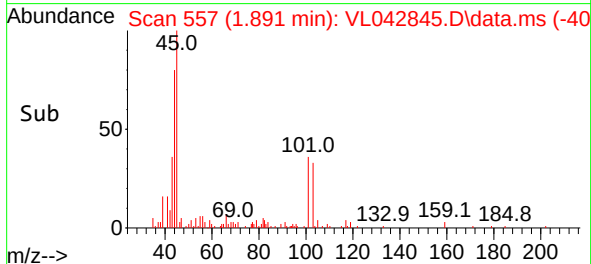
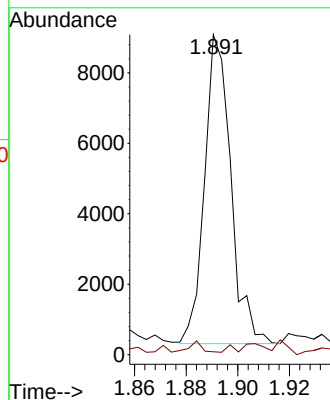
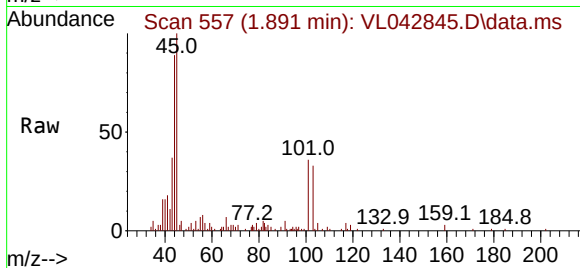
#19  
Isopropyl Alcohol  
Concen: 0.618 ppbv  
RT: 1.891 min Scan# 557  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 45 Resp: 6194  
Ion Ratio Lower Upper  
45 100  
58 13.3 32.7 49.1

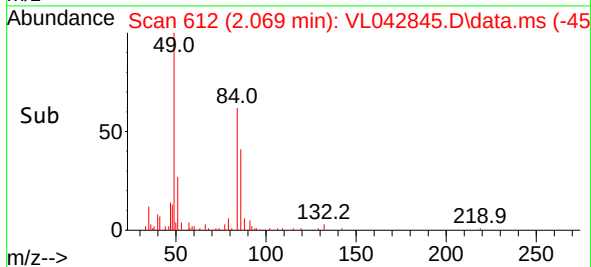
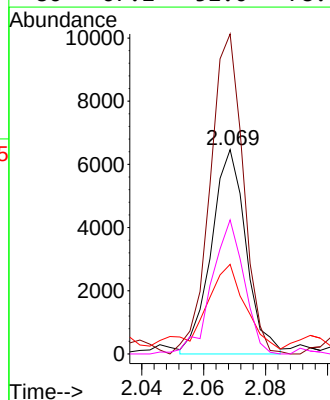
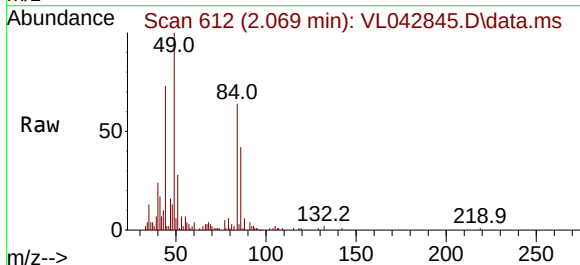
Manual Integrations  
APPROVED

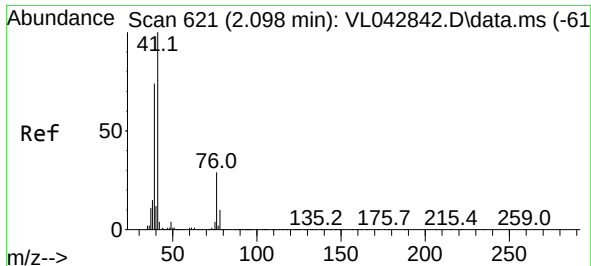
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#20  
Methylene Chloride  
Concen: 0.715 ppbv  
RT: 2.069 min Scan# 612  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

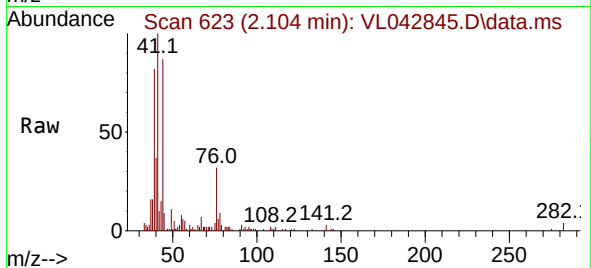
Tgt Ion: 84 Resp: 5025  
Ion Ratio Lower Upper  
84 100  
49 159.3 112.3 168.5  
51 42.5 36.0 54.0  
86 67.2 52.0 78.0





#21  
 Allyl Chloride  
 Concen: 0.600 ppbv  
 RT: 2.104 min Scan# 611  
 Delta R.T. 0.006 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

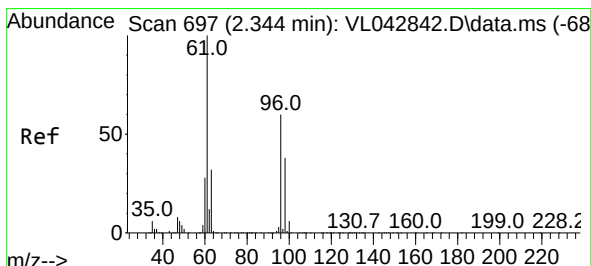
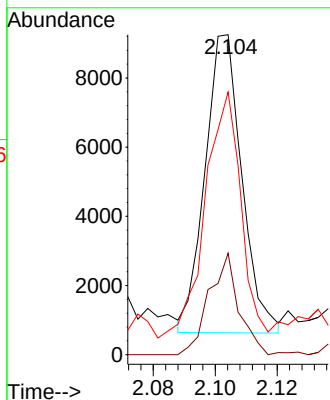
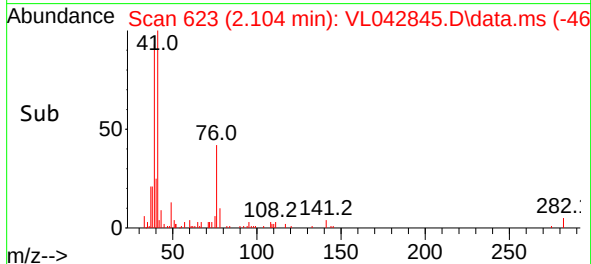
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5



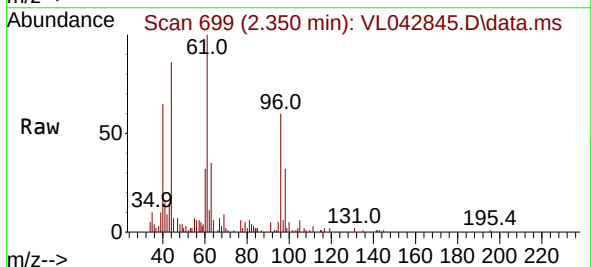
Tgt Ion: 41 Resp: 7120  
 Ion Ratio Lower Upper  
 41 100  
 76 27.8 23.9 35.9  
 39 98.9 57.8 86.6

Manual Integrations  
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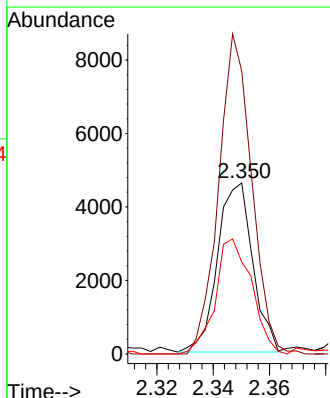
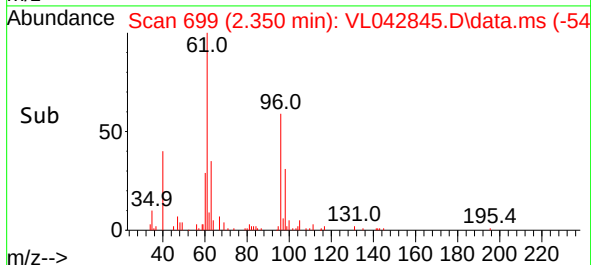
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



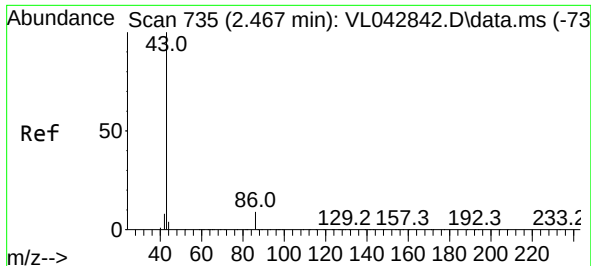
#22  
 trans-1,2-Dichloroethene  
 Concen: 0.556 ppbv  
 RT: 2.350 min Scan# 699  
 Delta R.T. 0.006 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17



Tgt Ion: 96 Resp: 3996  
 Ion Ratio Lower Upper  
 96 100  
 61 167.3 132.6 199.0  
 98 54.4 50.0 75.0

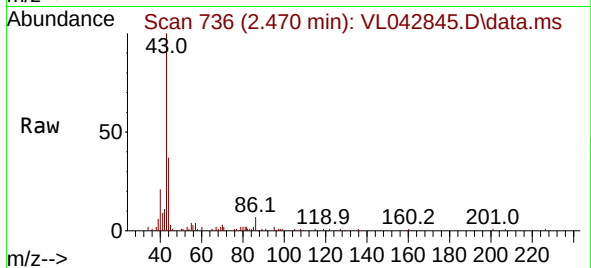






#23  
 Vinyl Acetate  
 Concen: 0.621 ppbv  
 RT: 2.470 min Scan# 71  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

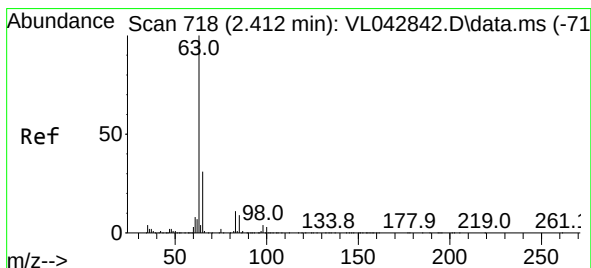
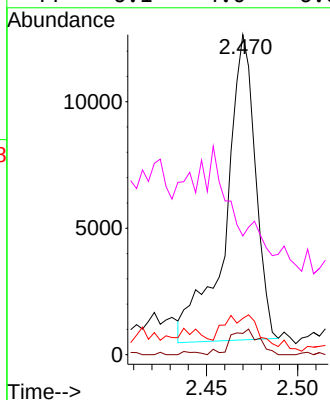
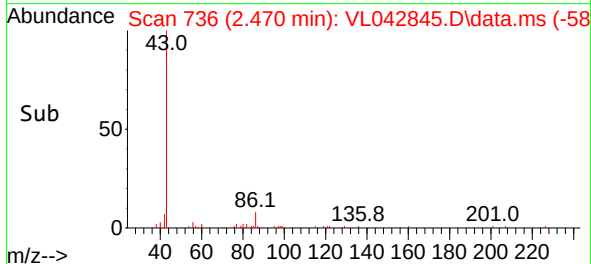
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5



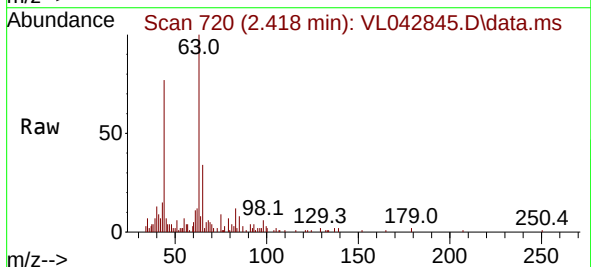
| Tgt Ion:  | 43  | Resp: | 13709 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 86        | 7.0 | 6.6   | 9.8   |
| 42        | 9.3 | 7.0   | 10.6  |
| 44        | 6.1 | 4.0   | 6.0#  |

Manual Integrations  
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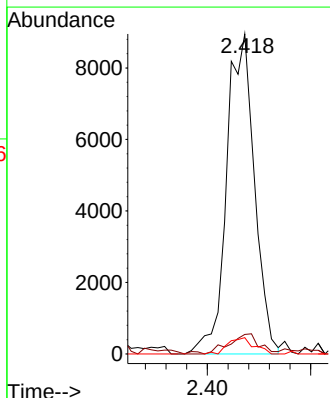
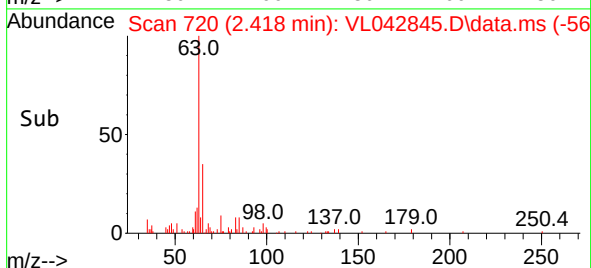
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

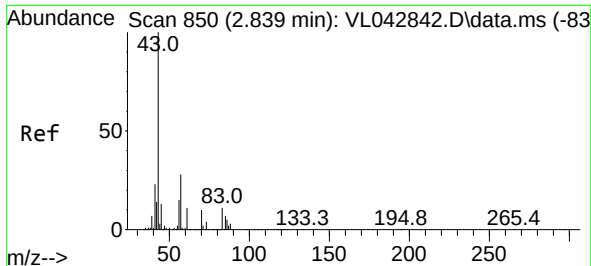


#24  
 1,1-Dichloroethane  
 Concen: 0.562 ppbv  
 RT: 2.418 min Scan# 720  
 Delta R.T. 0.006 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17



| Tgt Ion:  | 63  | Resp: | 8354  |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 98        | 5.5 | 2.1   | 6.5   |
| 100       | 5.1 | 1.7   | 5.1#  |





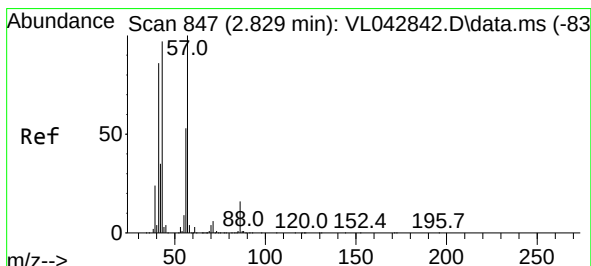
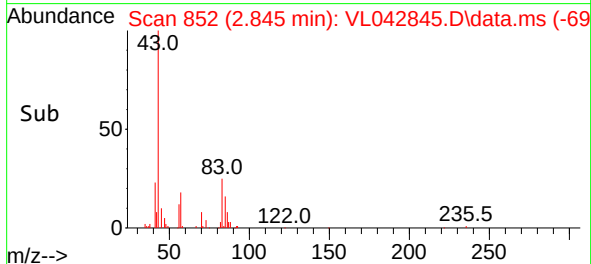
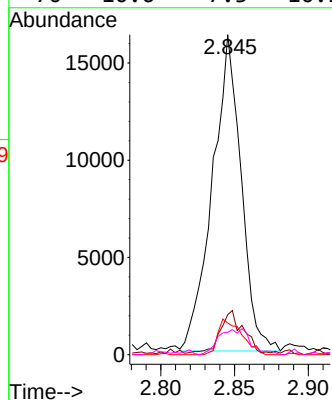
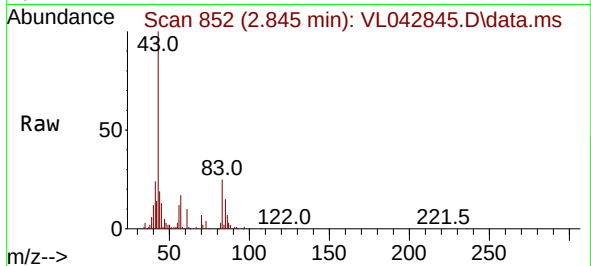
#25  
Ethyl Acetate  
Concen: 0.545 ppbv  
RT: 2.845 min Scan# 80  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 2214  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 13.2     | 8.1 12.1    |
| 61 9.4      | 7.4 11.2    |
| 70 10.6     | 7.3 10.9    |

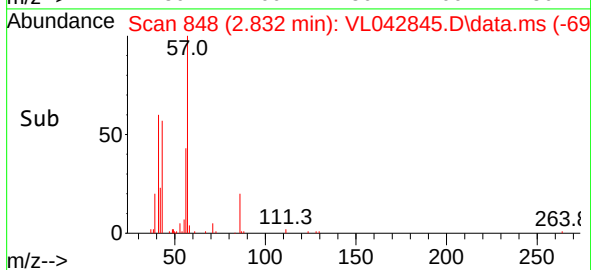
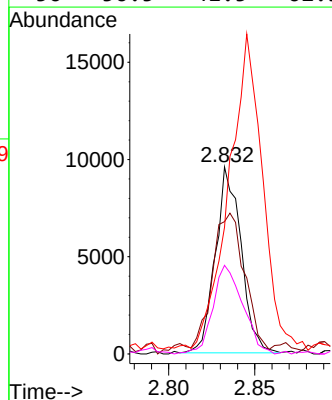
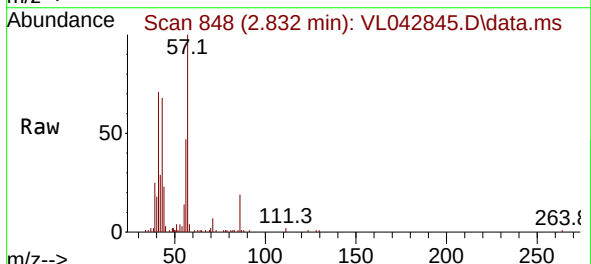
Manual Integrations  
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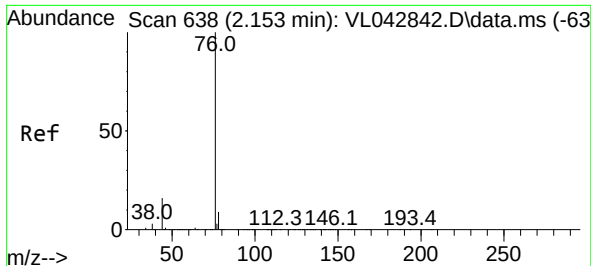
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#26  
Hexane  
Concen: 0.527 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 9879  |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 100.6    | 68.6 103.0  |
| 43 236.9    | 168.5 252.7 |
| 56 56.5     | 41.5 62.3   |





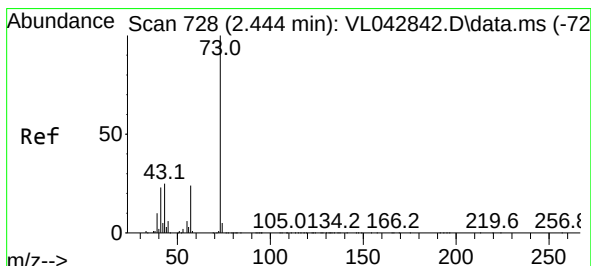
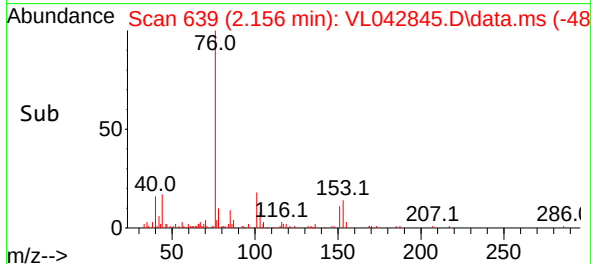
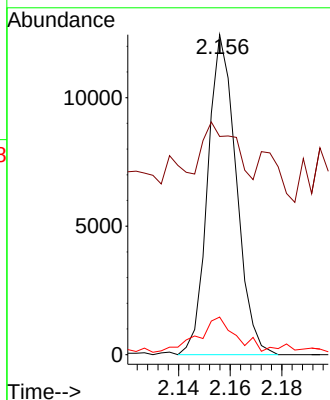
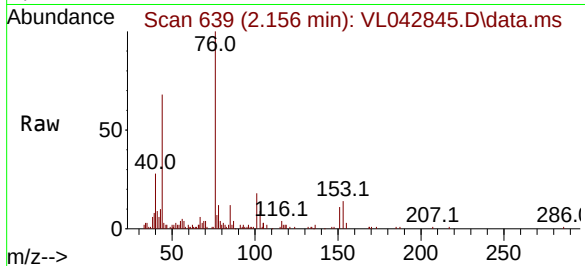
#27  
Carbon Disulfide  
Concen: 0.523 ppbv  
RT: 2.156 min Scan# 639  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 76 Resp: 9539  
Ion Ratio Lower Upper  
76 100  
44 136.8 15.9 23.9  
78 22.2 9.5 14.3

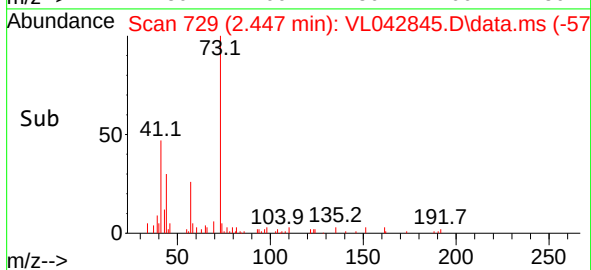
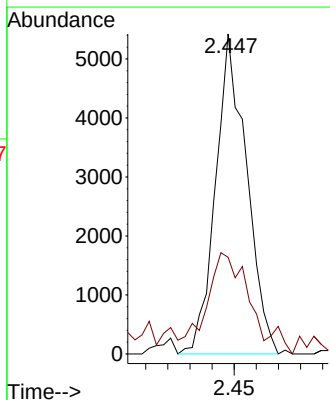
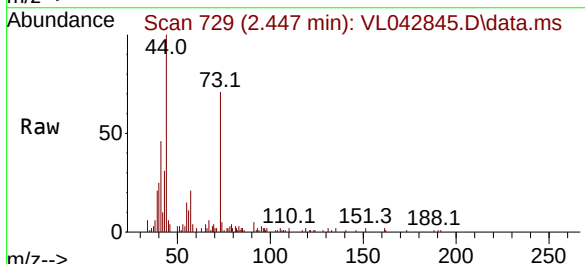
Manual Integrations  
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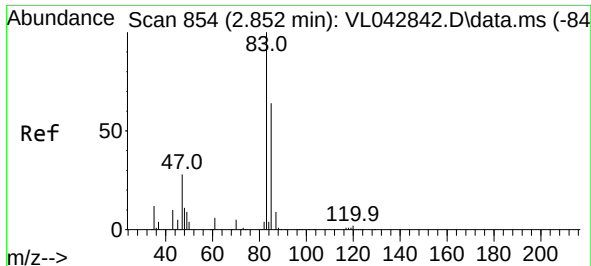
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#28  
Methyl tert-Butyl Ether  
Concen: 0.553 ppbv  
RT: 2.447 min Scan# 729  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 73 Resp: 5284  
Ion Ratio Lower Upper  
73 100  
57 46.5 21.6 32.4





#29

Chloroform

Concen: 0.545 ppbv

RT: 2.858 min Scan# 856

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

Tgt Ion: 83 Resp: 1458

Ion Ratio Lower Upper

83 100

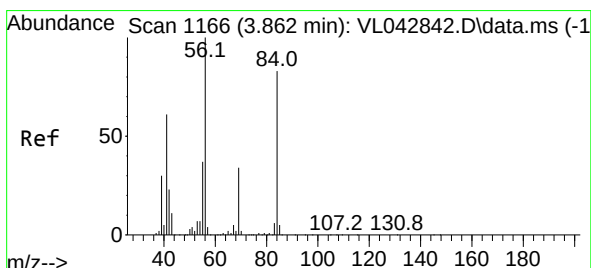
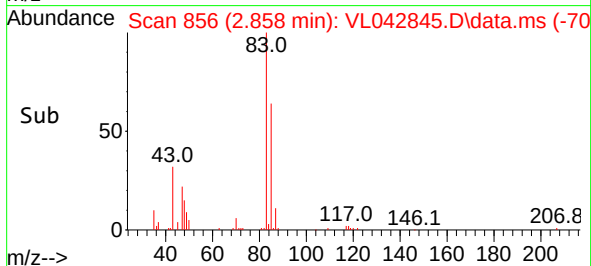
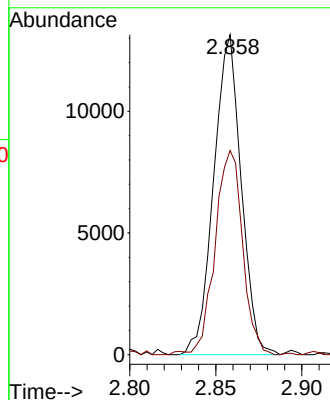
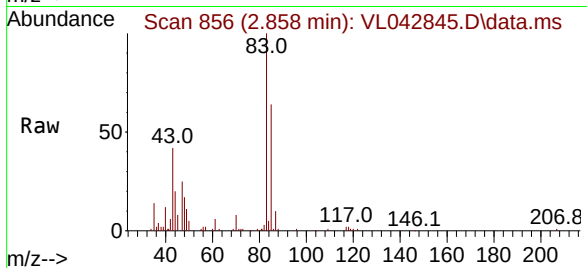
85 63.8 51.1 76.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#30

Cyclohexane

Concen: 0.550 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

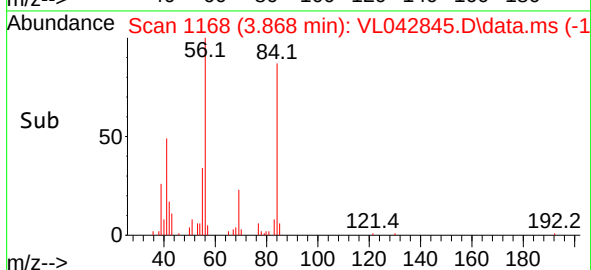
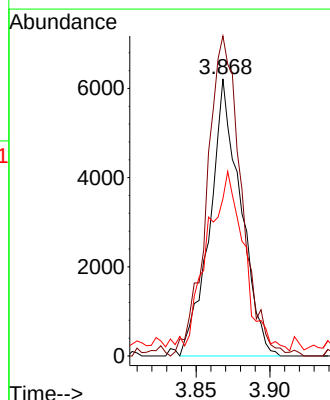
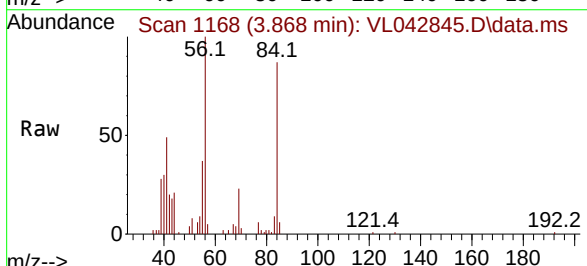
Tgt Ion: 84 Resp: 9037

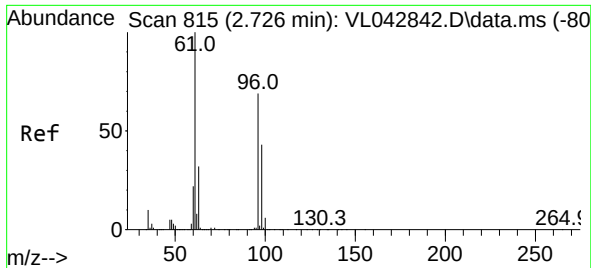
Ion Ratio Lower Upper

84 100

56 131.1 98.8 148.2

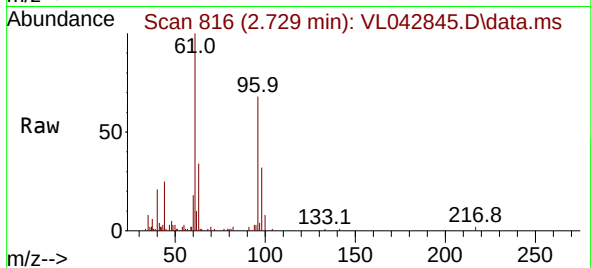
41 80.1 61.3 91.9





#31  
 cis-1,2-Dichloroethene  
 Concen: 0.550 ppbv  
 RT: 2.729 min Scan# 815  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

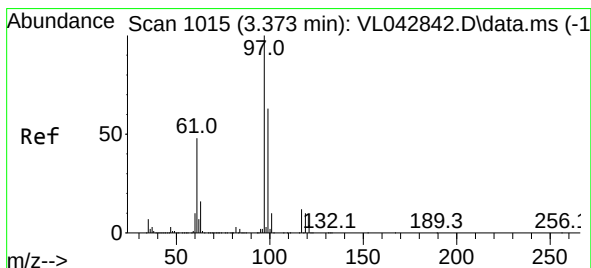
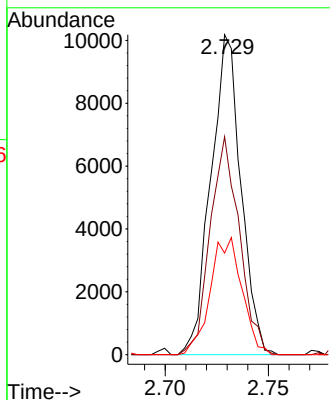
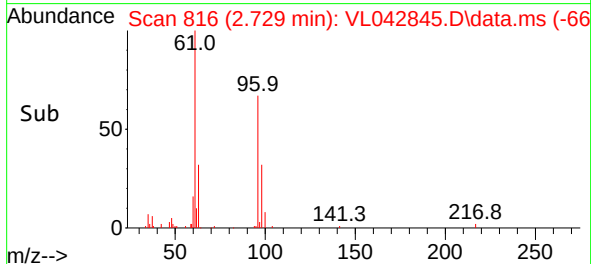
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5



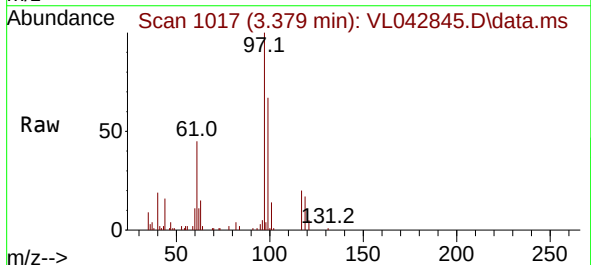
Tgt Ion: 61 Resp: 10308  
 Ion Ratio Lower Upper  
 61 100  
 96 61.7 55.0 82.6  
 98 28.7 34.3 51.5

Manual Integrations  
 APPROVED

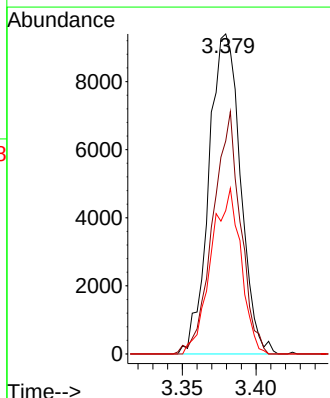
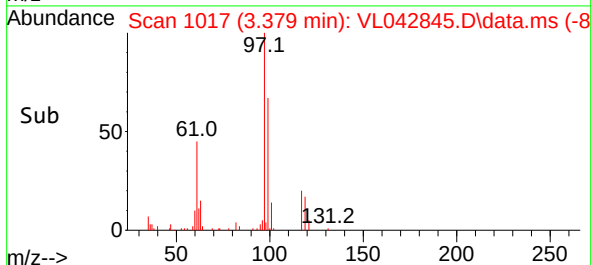
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

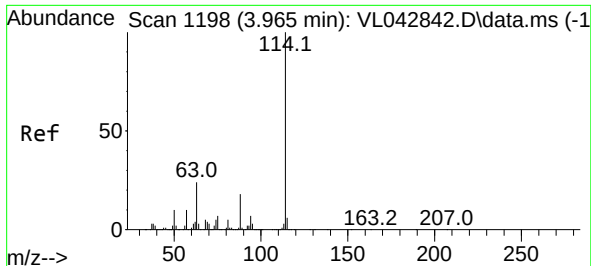


#32  
 1,1,1-Trichloroethane  
 Concen: 0.494 ppbv  
 RT: 3.379 min Scan# 1017  
 Delta R.T. 0.007 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17



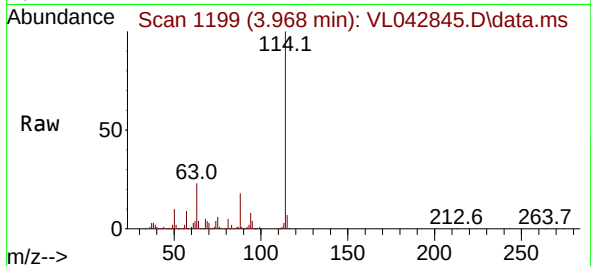
Tgt Ion: 97 Resp: 14011  
 Ion Ratio Lower Upper  
 97 100  
 99 66.4 51.0 76.6  
 61 48.9 38.0 57.0





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.968 min Scan# 1199  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

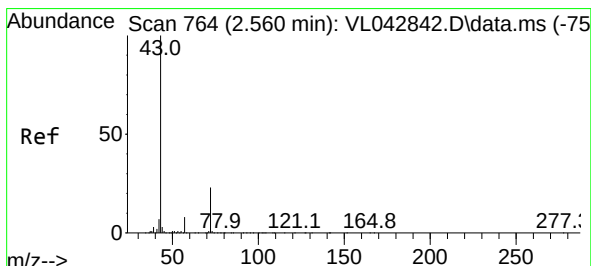
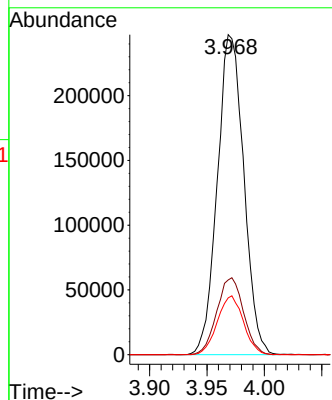
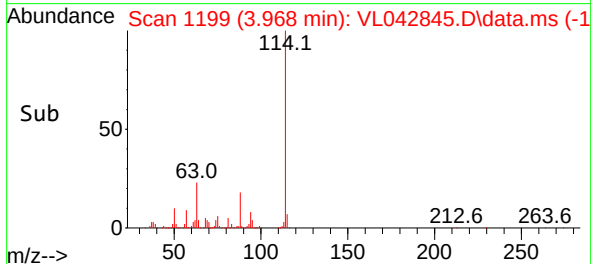
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



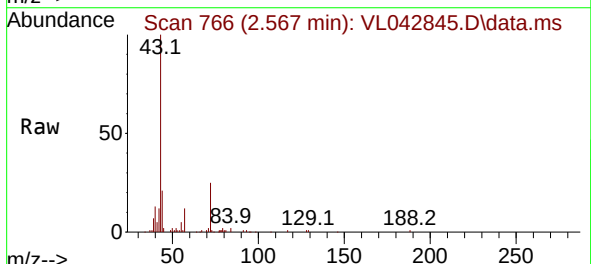
Tgt Ion:114 Resp: 396264  
Ion Ratio Lower Upper  
114 100  
63 24.3 19.7 29.5  
88 18.1 14.4 21.6

Manual Integrations  
APPROVED

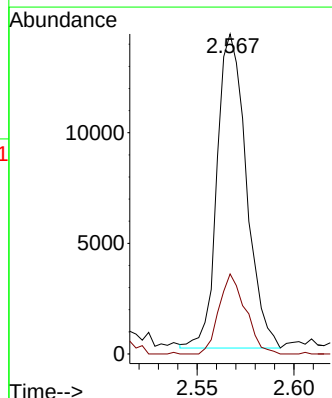
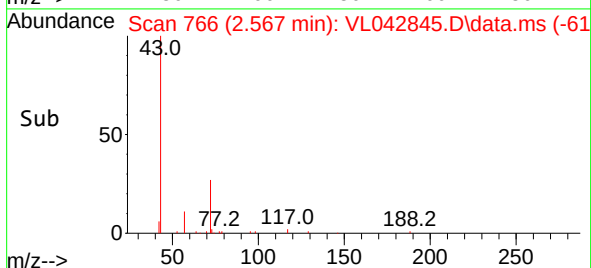
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

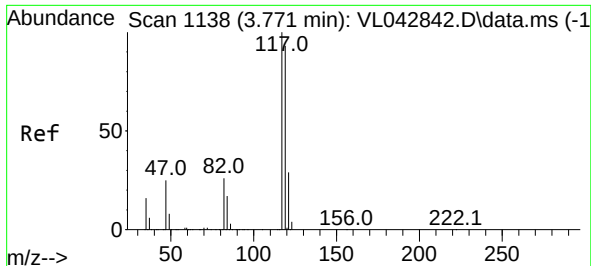


#34  
2-Butanone  
Concen: 0.558 ppbv  
RT: 2.567 min Scan# 766  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



Tgt Ion: 43 Resp: 14923  
Ion Ratio Lower Upper  
43 100  
72 23.3 18.6 28.0





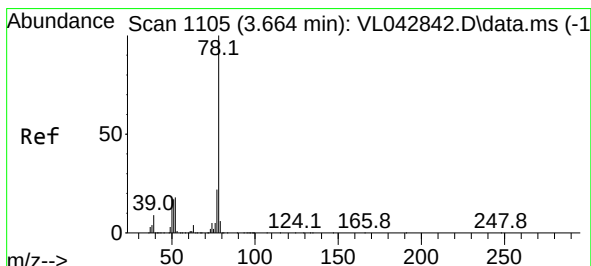
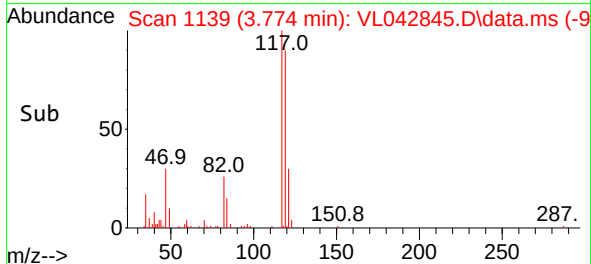
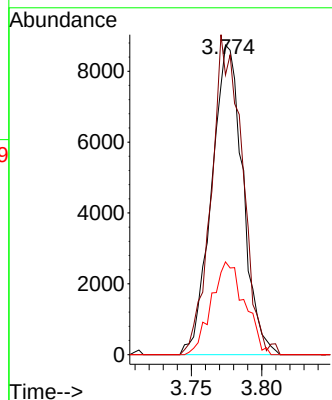
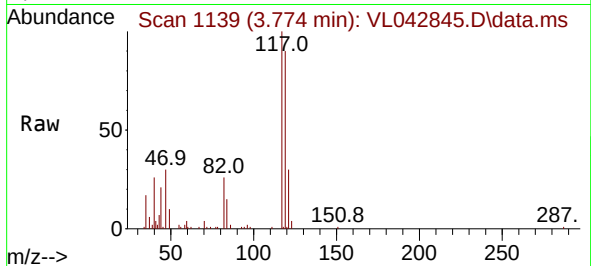
#35  
Carbon Tetrachloride  
Concen: 0.494 ppbv  
RT: 3.774 min Scan# 1138  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 117 Resp: 1350  
Ion Ratio Lower Upper  
117 100  
119 90.3 74.7 112.1  
121 30.0 23.2 34.8

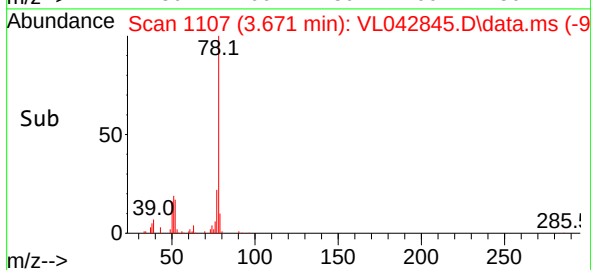
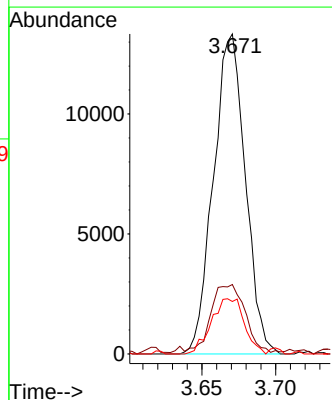
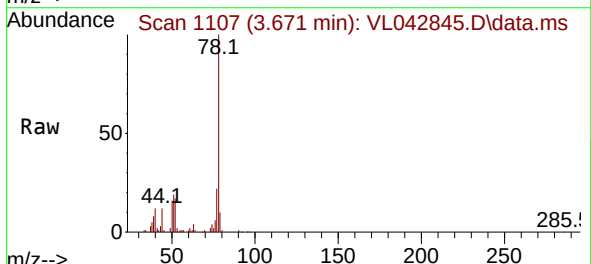
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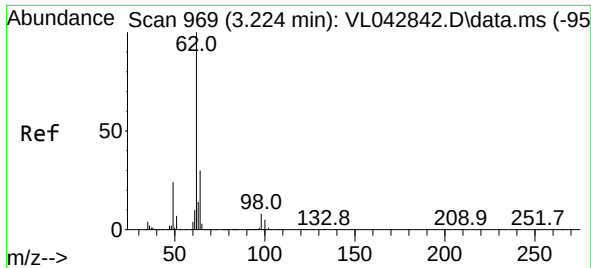
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#36  
Benzene  
Concen: 0.529 ppbv  
RT: 3.671 min Scan# 1107  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 78 Resp: 20073  
Ion Ratio Lower Upper  
78 100  
77 21.0 17.7 26.5  
50 16.4 13.9 20.9





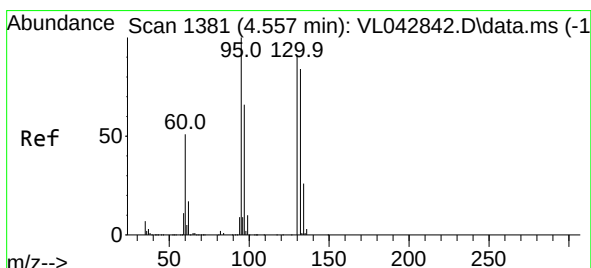
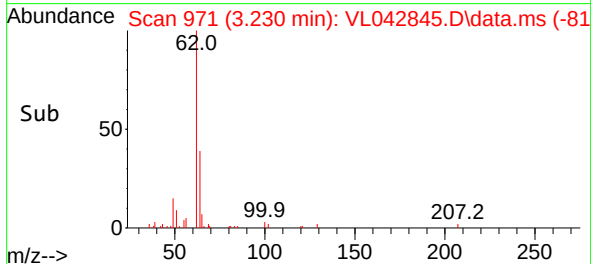
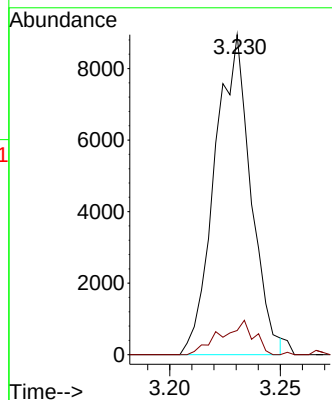
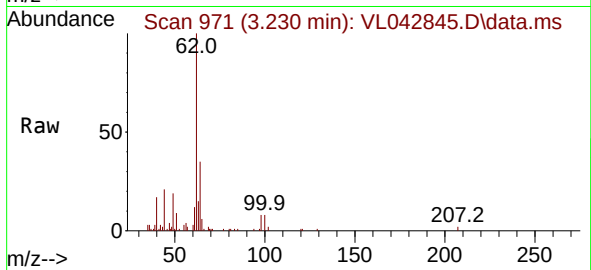
#37  
1,2-Dichloroethane  
Concen: 0.512 ppbv  
RT: 3.230 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 62 Resp: 1014  
Ion Ratio Lower Upper  
62 100  
98 10.0 5.9 8.9

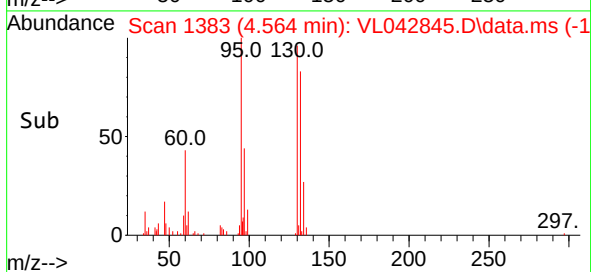
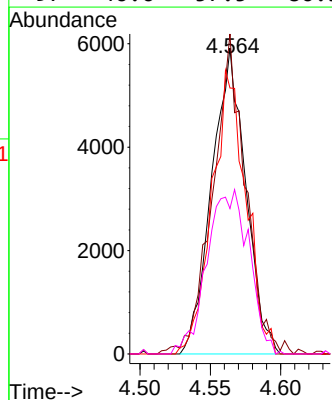
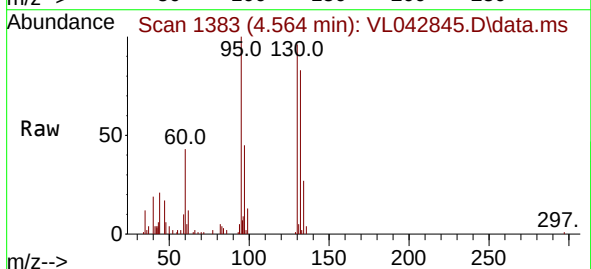
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Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

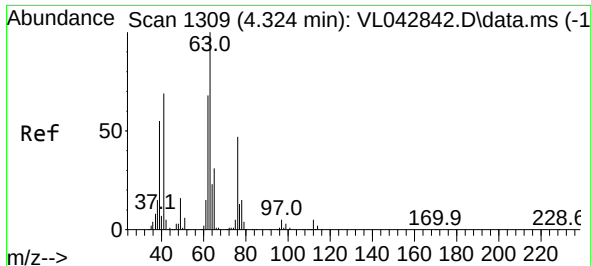


#38  
Trichloroethene  
Concen: 0.572 ppbv  
RT: 4.564 min Scan# 1383  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion:130 Resp: 9918  
Ion Ratio Lower Upper  
130 100  
95 103.5 87.6 131.4  
132 86.9 73.8 110.8  
97 46.6 57.5 86.3







#39

1,2-Dichloropropane

Concen: 0.541 ppbv

RT: 4.334 min Scan# 1312

Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

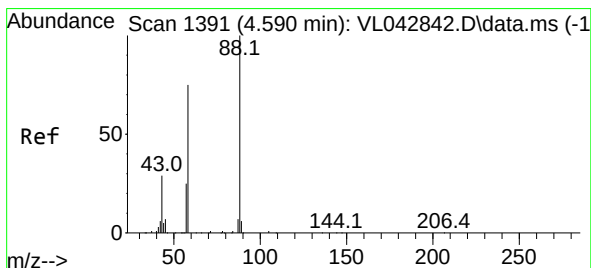
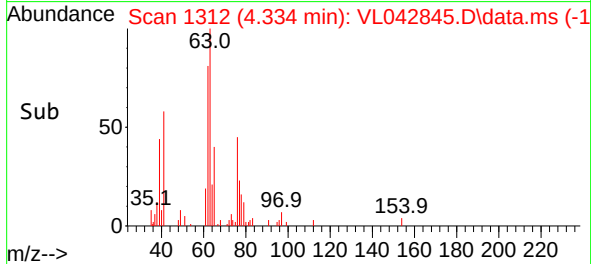
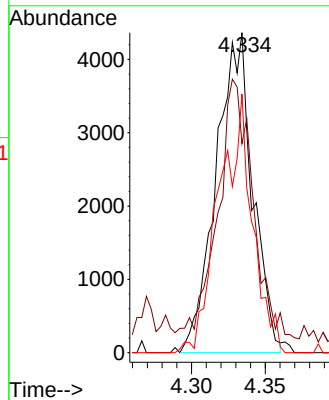
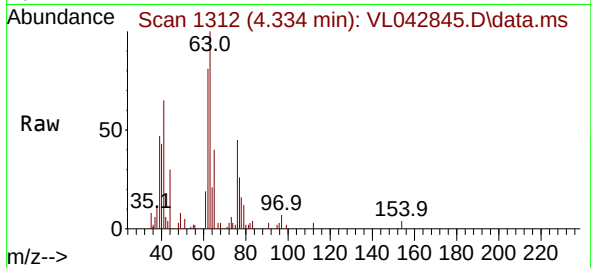
VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 749   |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 41       | 57.8  | 55.0  | 82.4  |
| 62       | 79.7  | 54.4  | 81.6  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 0.577 ppbv m

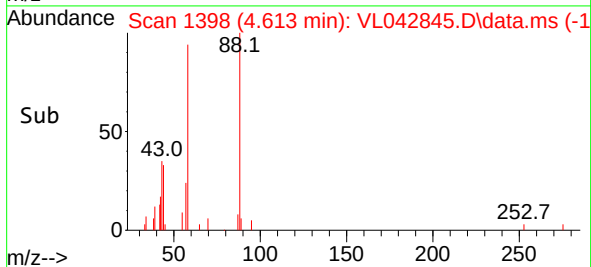
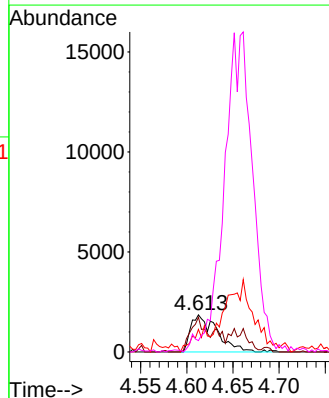
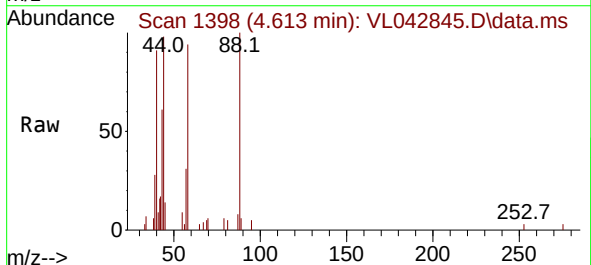
RT: 4.613 min Scan# 1398

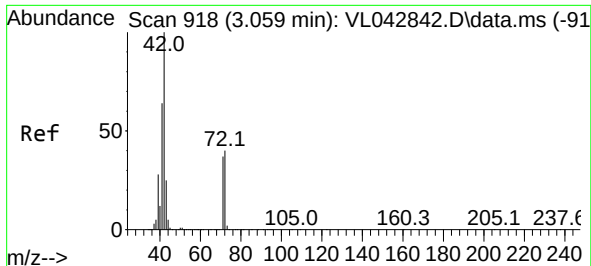
Delta R.T. 0.023 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

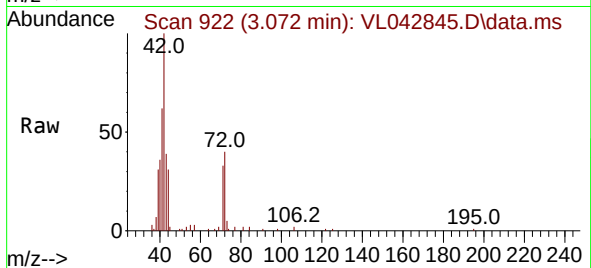
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 3743  |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 118.4 | 53.8  | 80.6# |
| 43       | 0.0   | 22.8  | 34.2# |
| 57       | 0.0   | 0.0   | 0.0   |





#41  
Tetrahydrofuran  
Concen: 0.525 ppbv  
RT: 3.072 min Scan# 918  
Delta R.T. 0.013 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

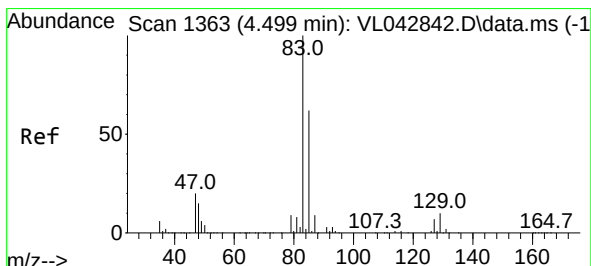
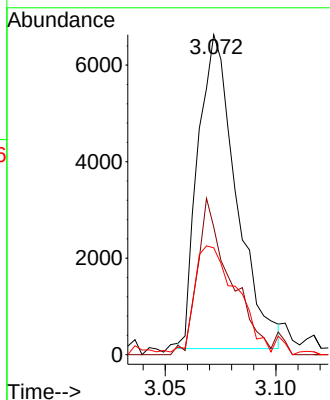
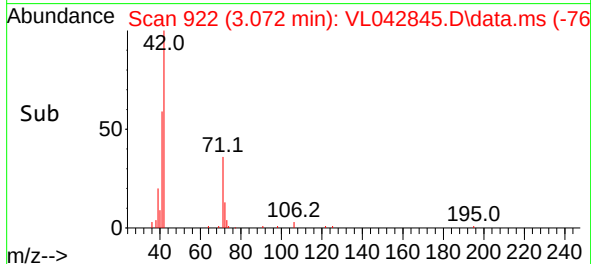
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 42 Resp: 782  
Ion Ratio Lower Upper  
42 100  
72 44.5 32.6 48.8  
71 42.0 30.0 45.0

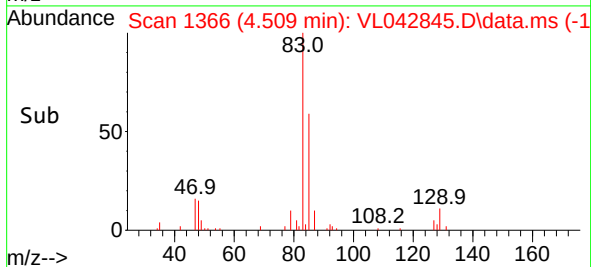
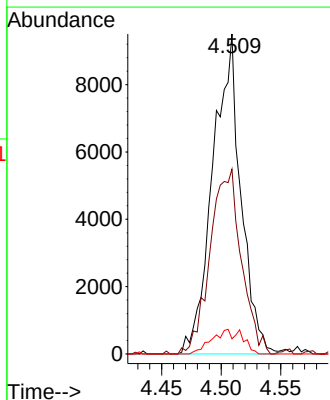
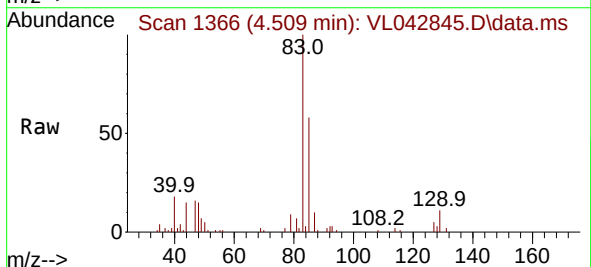
Manual Integrations  
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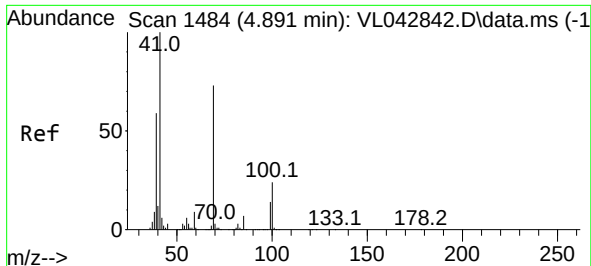
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#42  
Bromodichloromethane  
Concen: 0.527 ppbv  
RT: 4.509 min Scan# 1366  
Delta R.T. 0.010 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

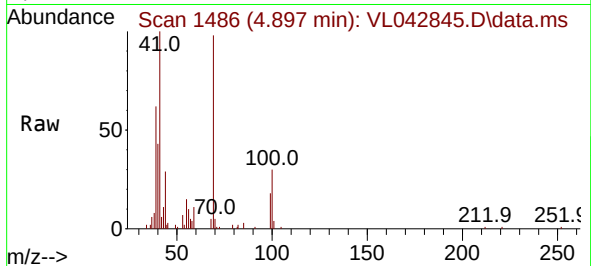
Tgt Ion: 83 Resp: 15580  
Ion Ratio Lower Upper  
83 100  
85 57.7 49.8 74.8  
127 4.7 5.8 8.6#





#43  
Methyl Methacrylate  
Concen: 0.544 ppbv m  
RT: 4.897 min Scan# 1413  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

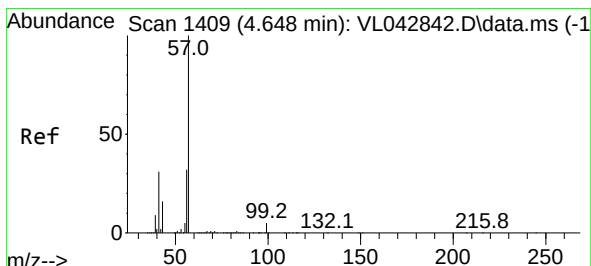
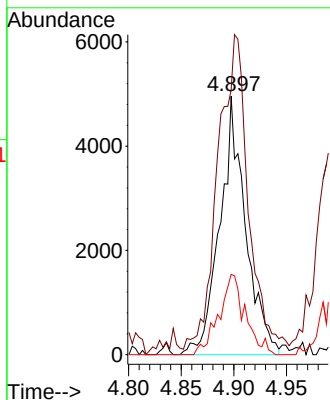
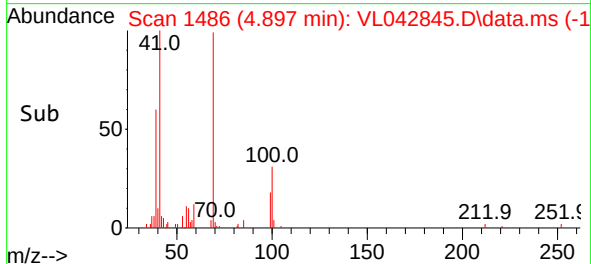
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



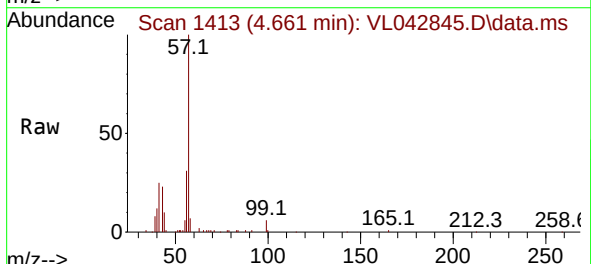
Tgt Ion: 69 Resp: 846  
Ion Ratio Lower Upper  
69 100  
41 141.3 114.6 172.0  
100 31.7 30.2 45.4

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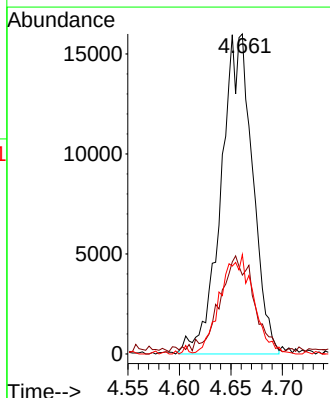
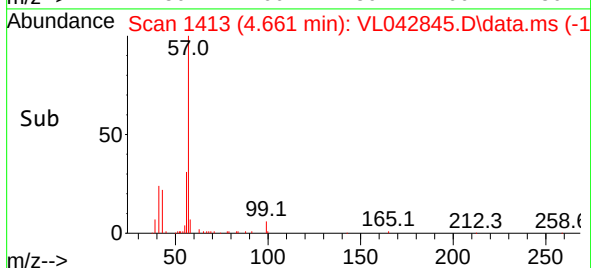
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

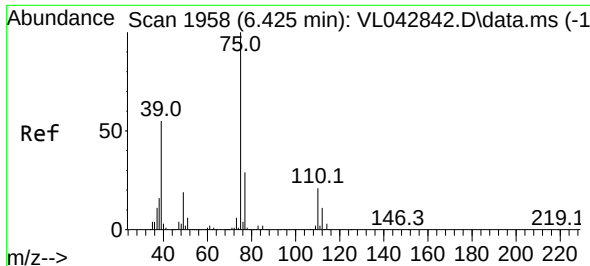


#44  
2,2,4-Trimethylpentane  
Concen: 0.537 ppbv m  
RT: 4.661 min Scan# 1413  
Delta R.T. 0.013 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



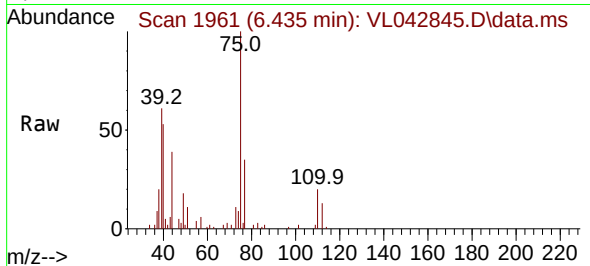
Tgt Ion: 57 Resp: 34237  
Ion Ratio Lower Upper  
57 100  
41 32.2 24.8 37.2  
56 0.0 25.5 38.3#





#45  
t-1,3-Dichloropropene  
Concen: 0.505 ppbv m  
RT: 6.435 min Scan# 1958  
Delta R.T. 0.010 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

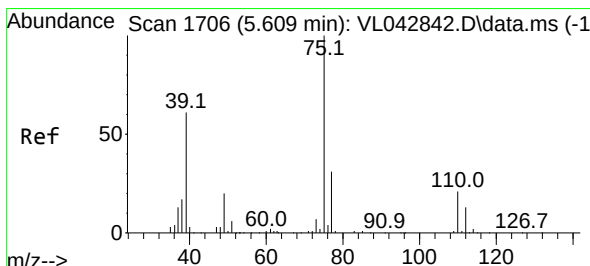
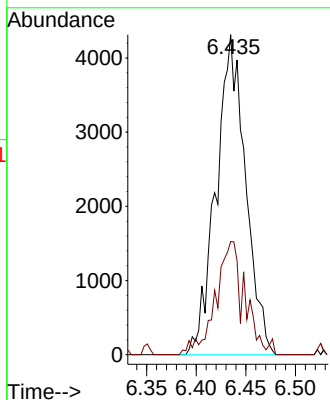
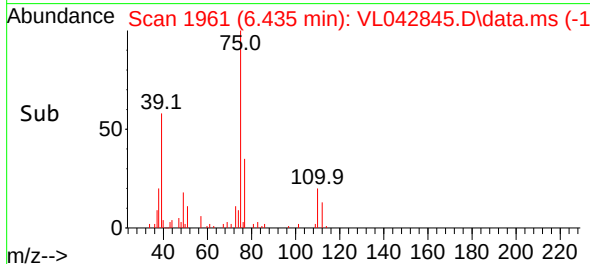
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



Tgt Ion: 75 Resp: 891  
Ion Ratio Lower Upper  
75 100  
77 35.4 23.8 35.6

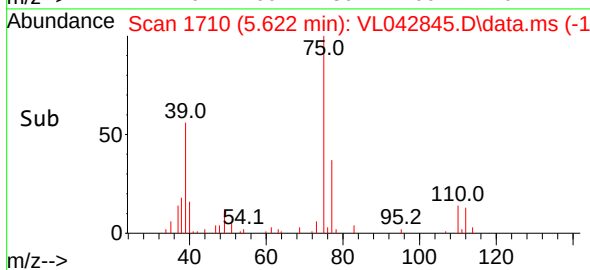
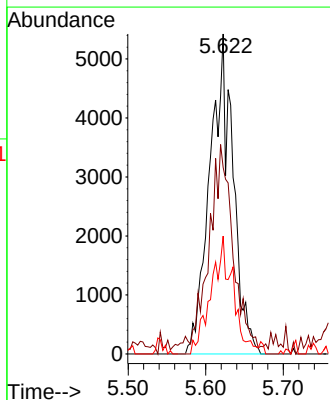
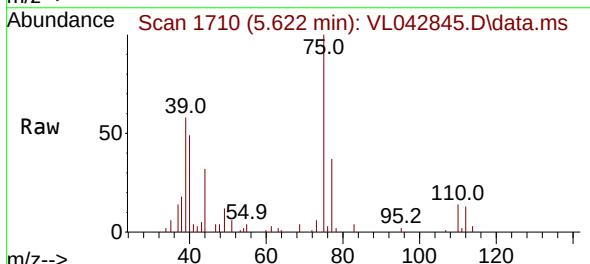
Manual Integrations  
APPROVED

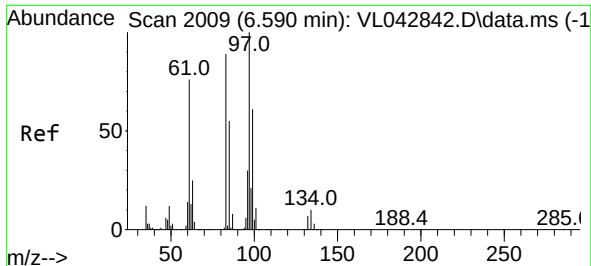
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#46  
cis-1,3-Dichloropropene  
Concen: 0.508 ppbv m  
RT: 5.622 min Scan# 1710  
Delta R.T. 0.013 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

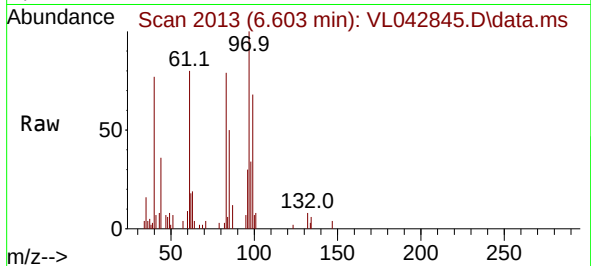
Tgt Ion: 75 Resp: 11259  
Ion Ratio Lower Upper  
75 100  
39 58.3 48.9 73.3  
77 36.9 24.9 37.3





#47  
1,1,2-Trichloroethane  
Concen: 0.534 ppbv m  
RT: 6.603 min Scan# 2009  
Delta R.T. 0.013 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

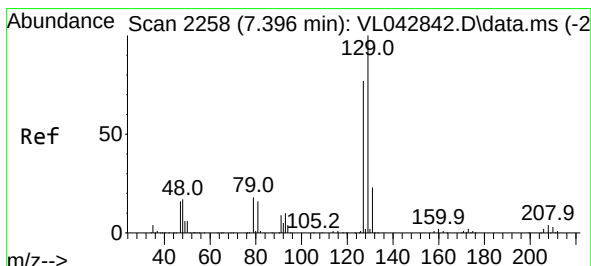
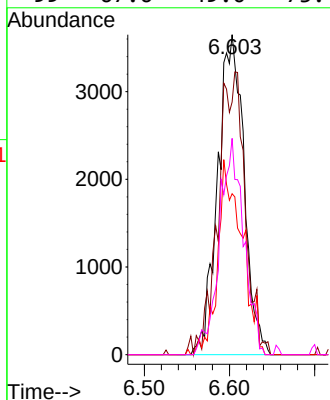
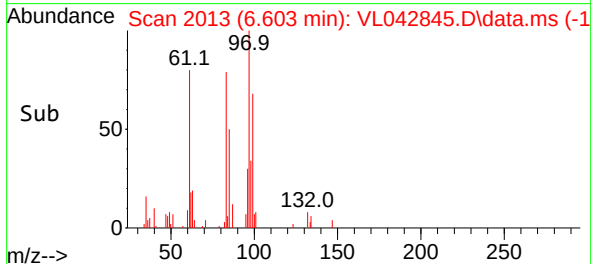
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



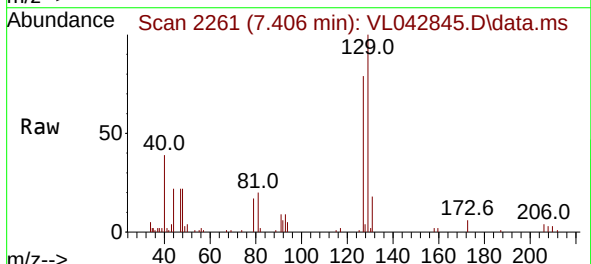
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 97      | 100   |       |       |
| 83      | 78.9  | 71.0  | 106.4 |
| 85      | 50.3  | 43.6  | 65.4  |
| 99      | 67.6  | 49.0  | 73.4  |

Manual Integrations  
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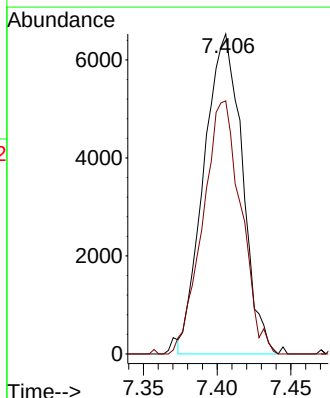
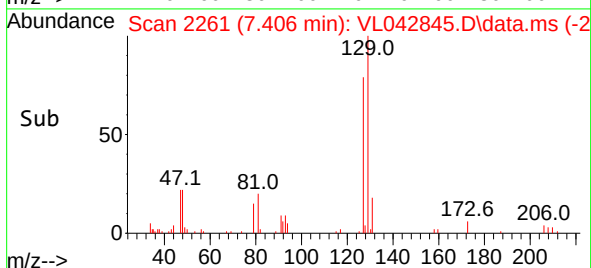
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

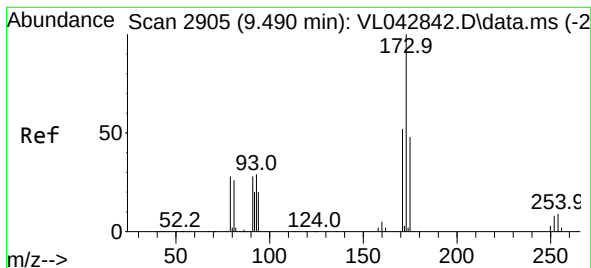


#48  
Dibromochloromethane  
Concen: 0.497 ppbv  
RT: 7.406 min Scan# 2261  
Delta R.T. 0.010 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 129     | 100   |       |       |
| 127     | 79.1  | 39.4  | 118.2 |





#49

Bromoform

Concen: 0.471 ppbv

RT: 9.497 min Scan# 2905

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

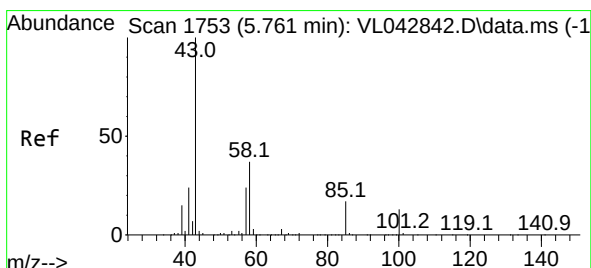
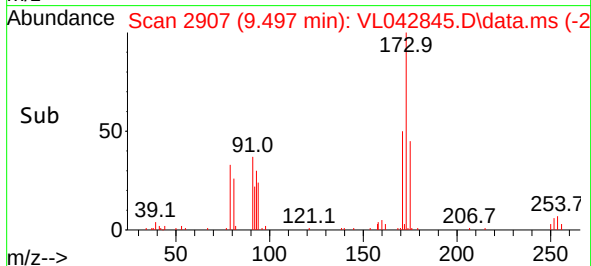
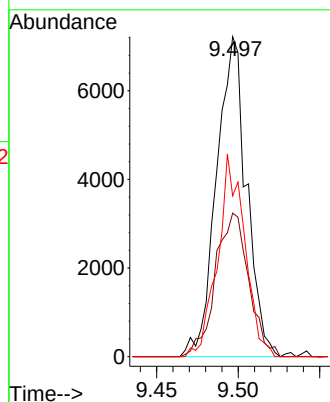
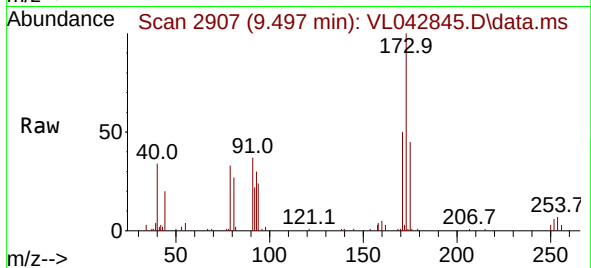
VSTDIC0.5

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 923   |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 49.9  | 39.2  | 58.8  |
| 171      | 57.0  | 41.3  | 61.9  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#50

4-Methyl-2-Pentanone

Concen: 0.524 ppbv m

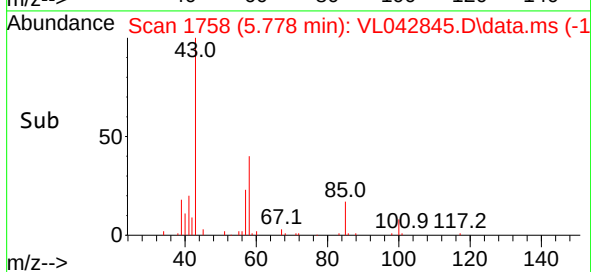
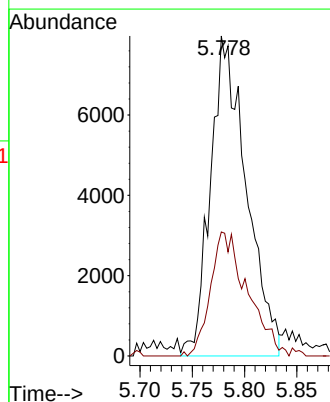
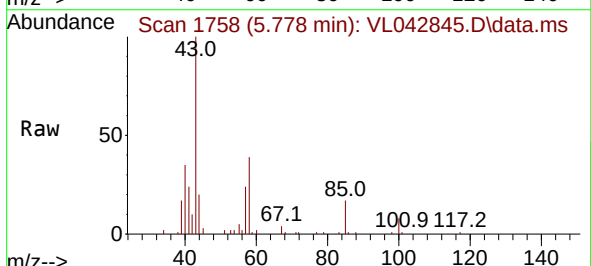
RT: 5.778 min Scan# 1758

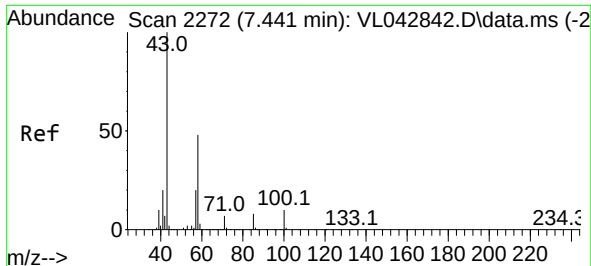
Delta R.T. 0.016 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

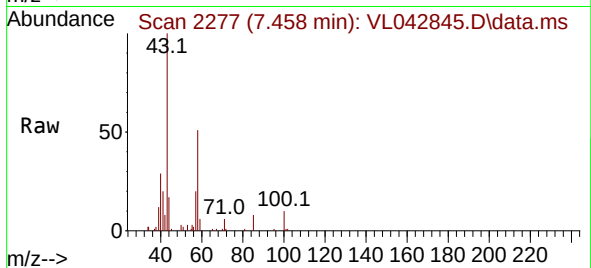
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 19028 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 40.4  | 29.8  | 44.8  |





#51  
2-Hexanone  
Concen: 0.503 ppbv  
RT: 7.458 min Scan# 21  
Delta R.T. 0.016 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

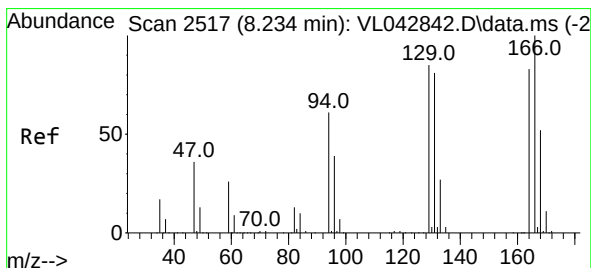
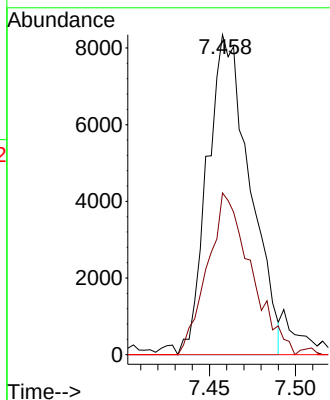
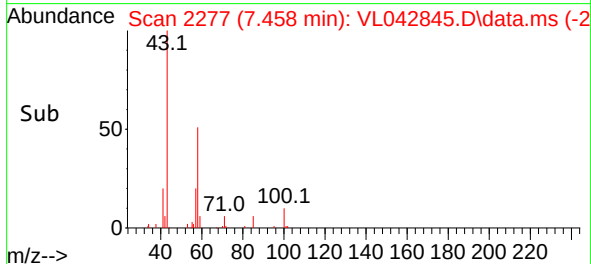
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



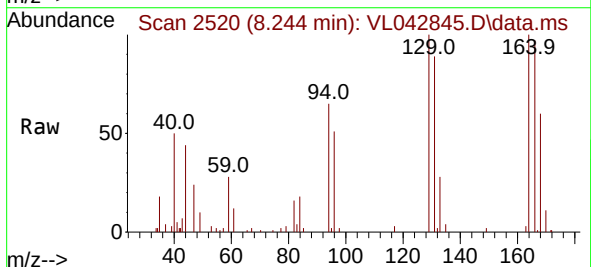
Tgt Ion: 43 Resp: 14329  
Ion Ratio Lower Upper  
43 100  
58 52.3 41.0 61.6  
98 0.0 0.1 0.1

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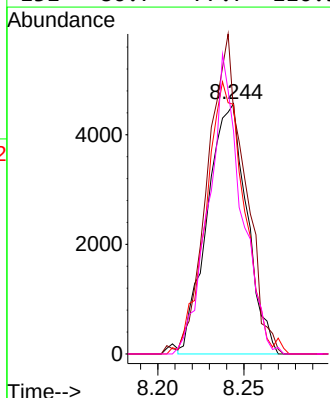
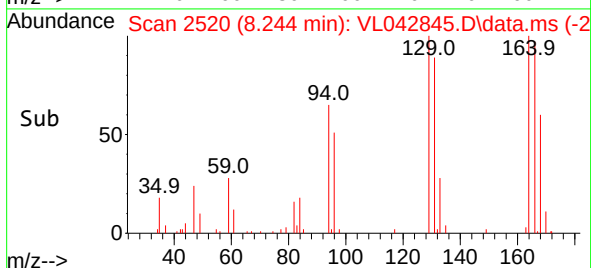
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

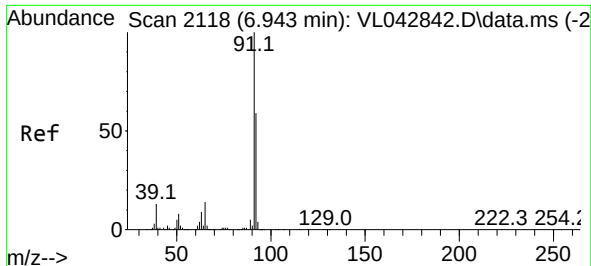


#52  
Tetrachloroethene  
Concen: 0.531 ppbv  
RT: 8.244 min Scan# 2520  
Delta R.T. 0.010 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



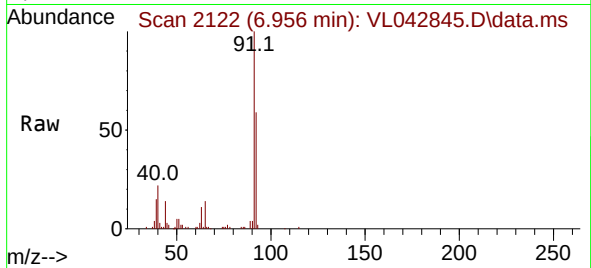
Tgt Ion:164 Resp: 7304  
Ion Ratio Lower Upper  
164 100  
166 95.1 96.5 144.7#  
129 98.0 81.8 122.6  
131 86.7 77.7 116.5





#53  
Toluene  
Concen: 0.535 ppbv m  
RT: 6.956 min Scan# 2118  
Delta R.T. 0.013 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

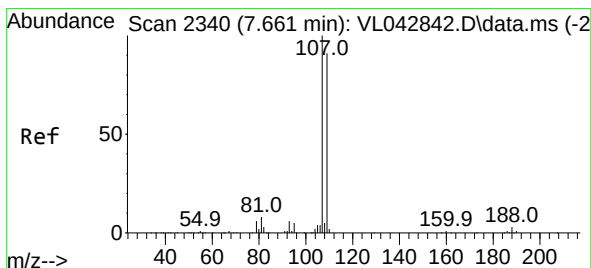
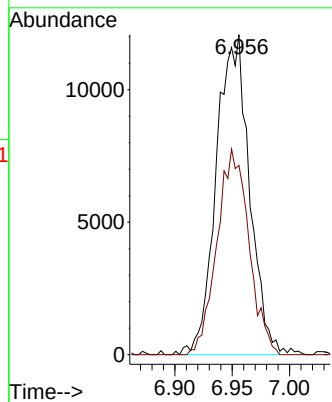
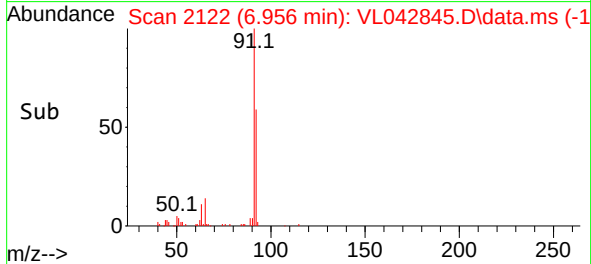
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



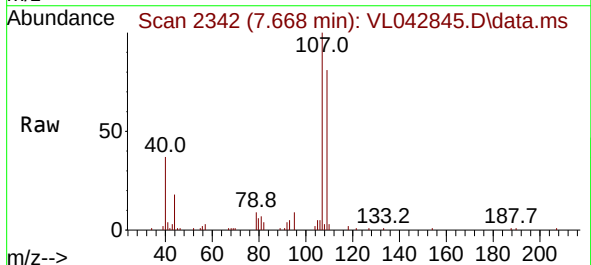
Tgt Ion: 91 Resp: 2415  
Ion Ratio Lower Upper  
91 100  
92 62.1 47.8 71.6

Manual Integrations  
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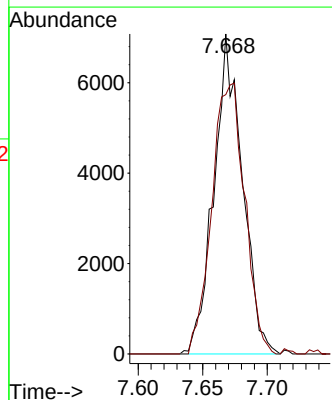
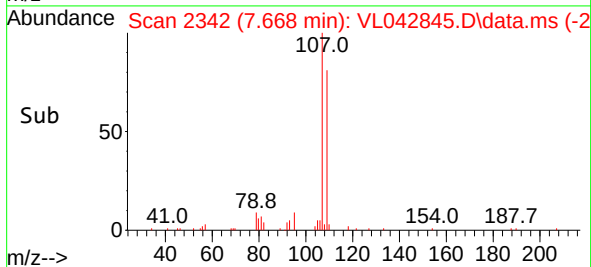
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



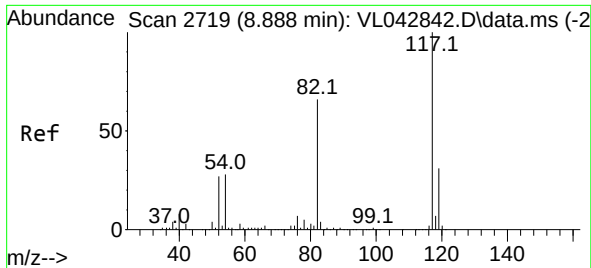
#54  
1,2-Dibromoethane  
Concen: 0.507 ppbv  
RT: 7.668 min Scan# 2342  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



Tgt Ion:107 Resp: 10873  
Ion Ratio Lower Upper  
107 100  
109 81.0 72.5 108.7







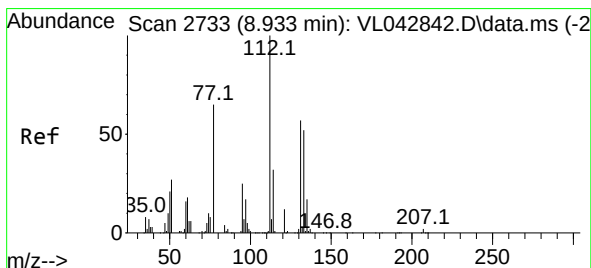
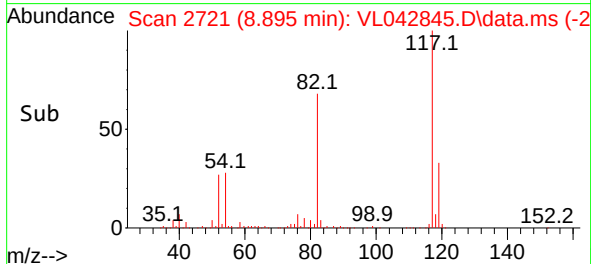
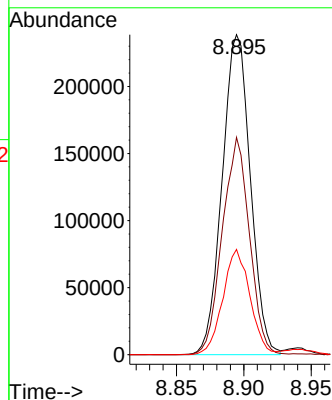
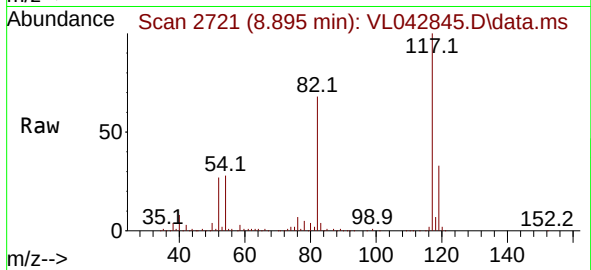
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.895 min Scan# 2719  
Delta R.T. 0.007 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:117 Resp: 34800  
Ion Ratio Lower Upper  
117 100  
82 65.4 54.6 81.8  
119 33.4 25.9 38.9

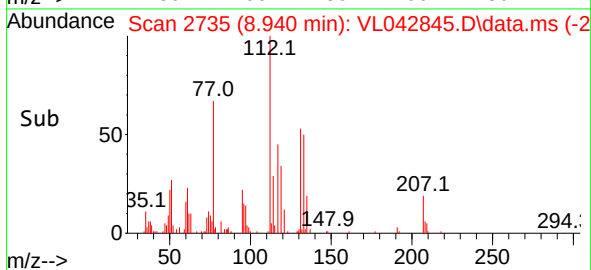
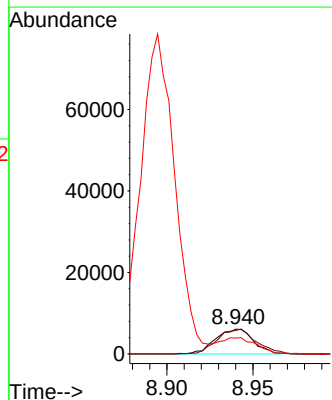
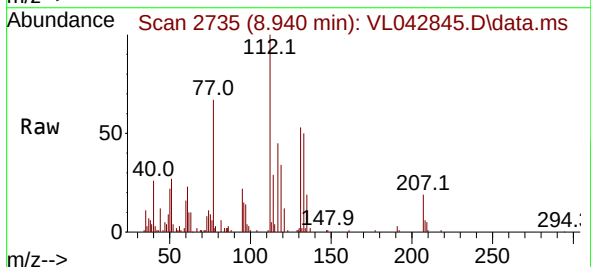
Manual Integrations  
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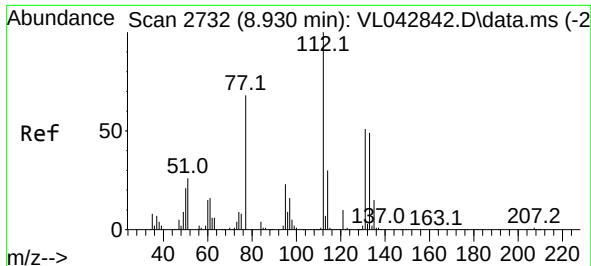
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.517 ppbv  
RT: 8.940 min Scan# 2735  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion:131 Resp: 9300  
Ion Ratio Lower Upper  
131 100  
133 102.5 77.4 116.0  
119 1250.4 51.2 76.8#





#57

Chlorobenzene

Concen: 0.539 ppbv

RT: 8.937 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

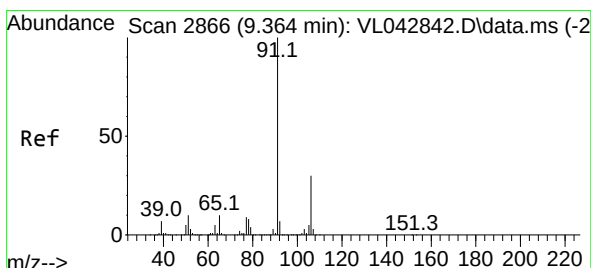
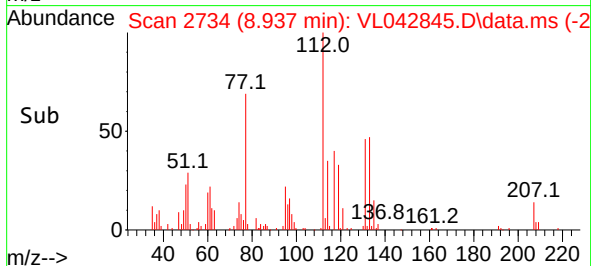
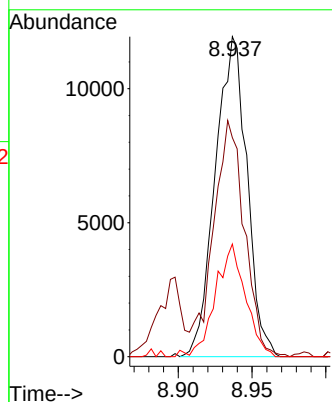
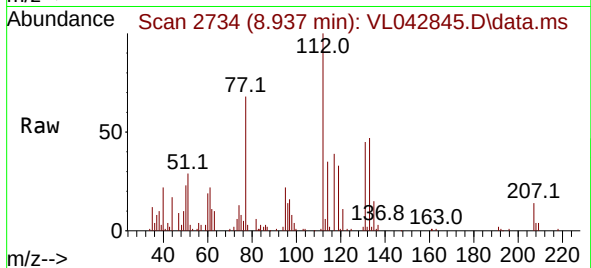
VSTDICC0.5

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 112   | Resp: | 1784 |
| Ion Ratio | Lower | Upper |      |
| 112       | 100   |       |      |
| 77        | 67.8  | 55.5  | 83.3 |
| 114       | 35.2  | 27.2  | 33.2 |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#58

Ethyl Benzene

Concen: 0.525 ppbv

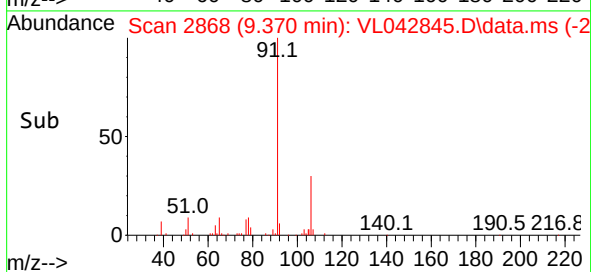
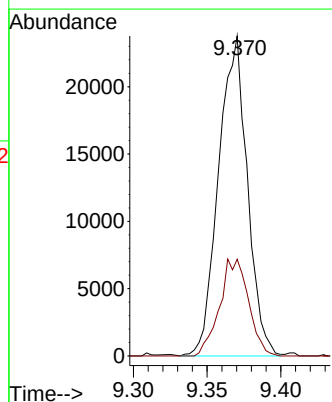
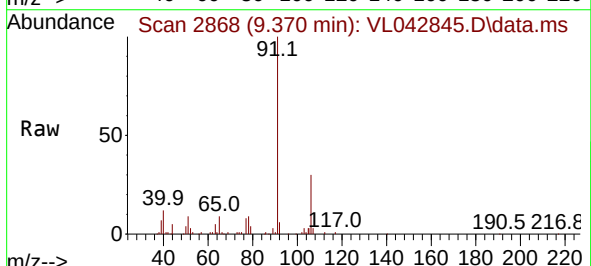
RT: 9.370 min Scan# 2868

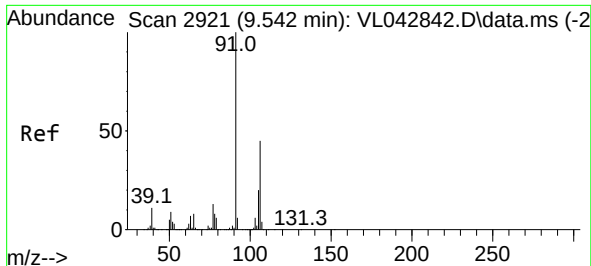
Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 32261 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 106       | 30.2  | 23.9  | 35.9  |





#59

m/p-Xylene

Concen: 1.045 ppbv m

RT: 9.561 min Scan# 2921

Delta R.T. 0.019 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

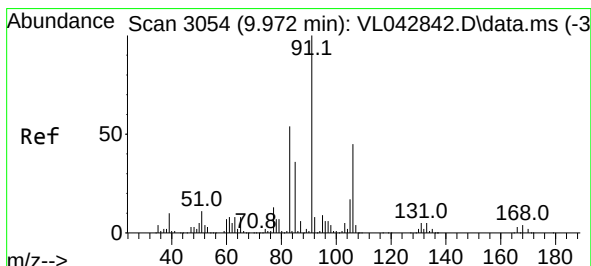
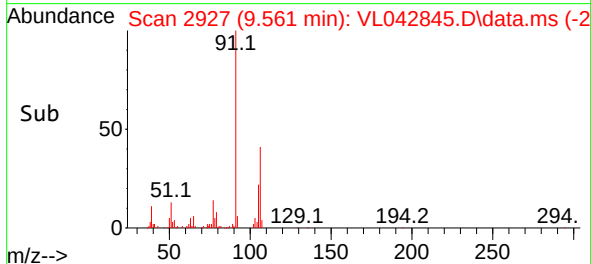
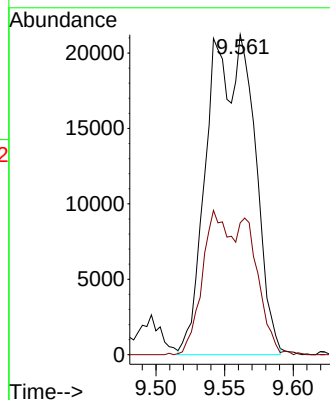
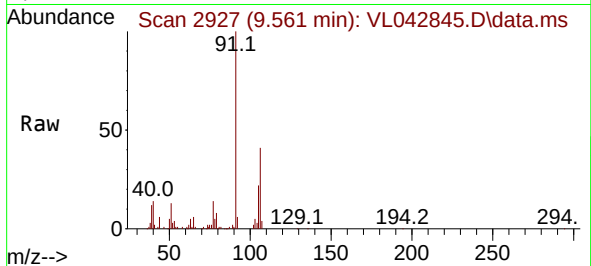
VSTDIC0.5

Tgt Ion: 91 Resp: 50372  
 Ion Ratio Lower Upper  
 91 100  
 106 46.9 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



#60

o-Xylene

Concen: 0.551 ppbv

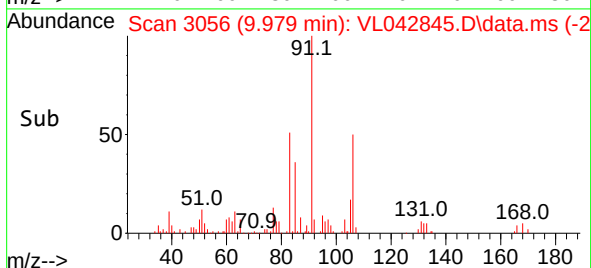
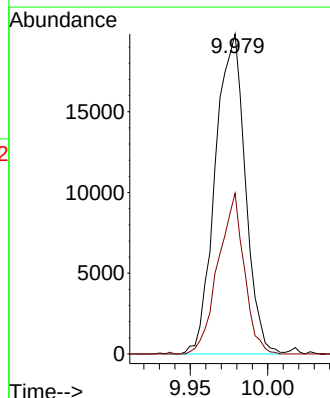
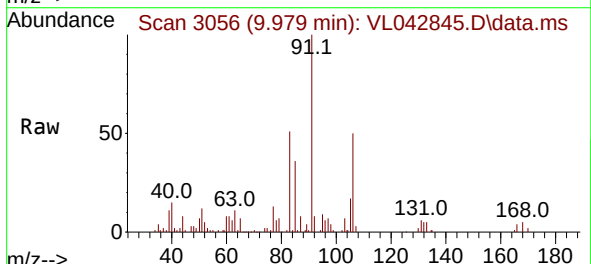
RT: 9.979 min Scan# 3056

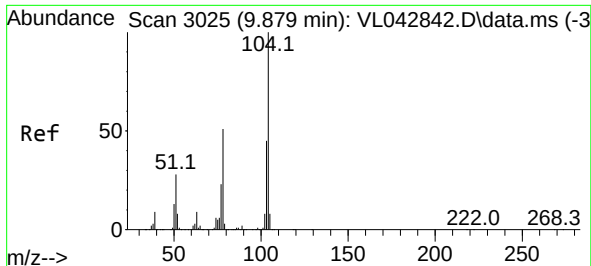
Delta R.T. 0.007 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

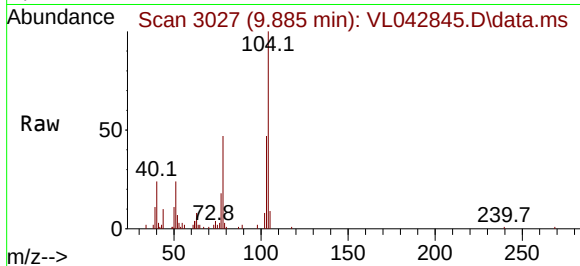
Tgt Ion: 91 Resp: 26662  
 Ion Ratio Lower Upper  
 91 100  
 106 43.8 21.8 65.4





#61  
Styrene  
Concen: 0.546 ppbv  
RT: 9.885 min Scan# 3025  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

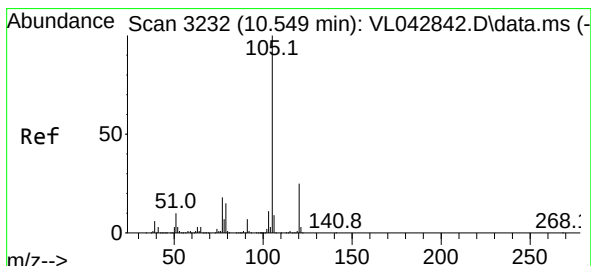
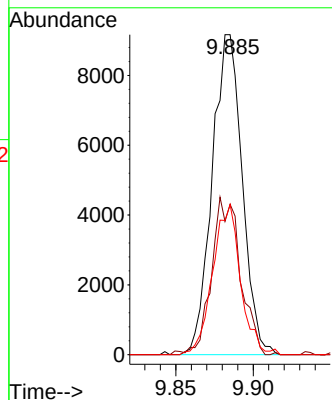
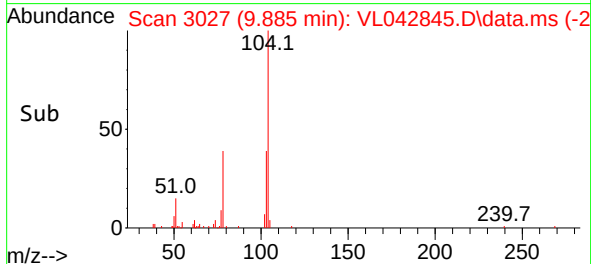
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



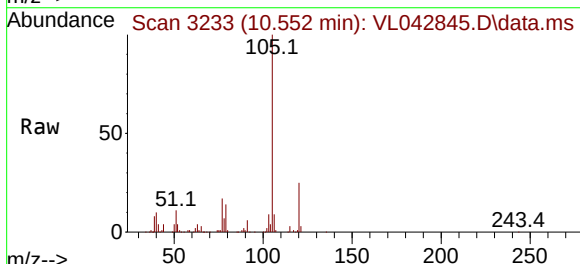
Tgt Ion:104 Resp: 12379  
Ion Ratio Lower Upper  
104 100  
78 47.4 40.6 61.0  
103 43.4 37.7 56.5

Manual Integrations  
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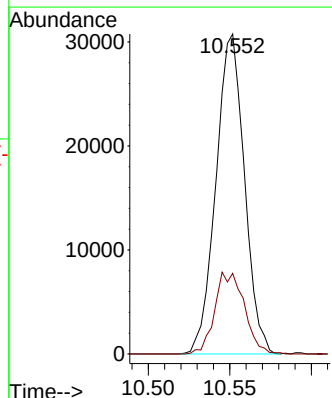
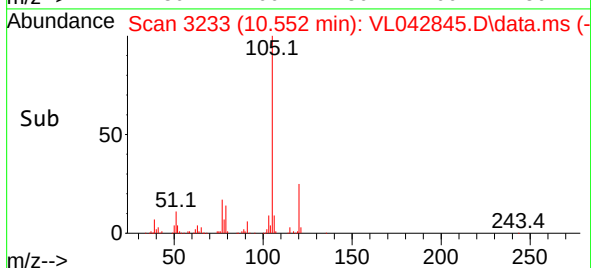
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

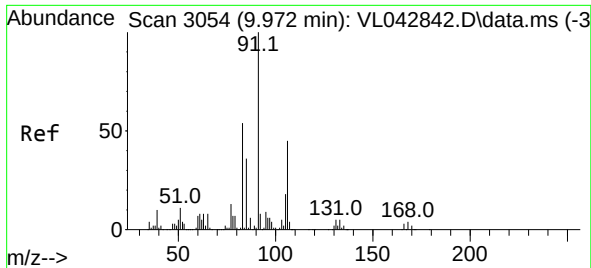


#62  
Isopropylbenzene  
Concen: 0.529 ppbv  
RT: 10.552 min Scan# 3233  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



Tgt Ion:105 Resp: 37401  
Ion Ratio Lower Upper  
105 100  
120 26.5 20.6 30.8





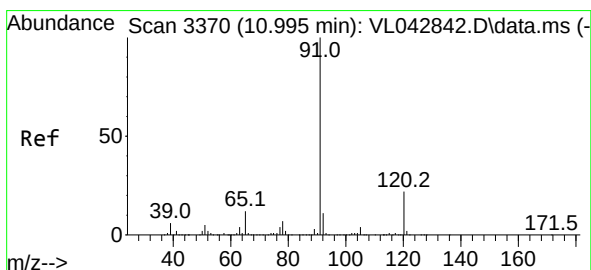
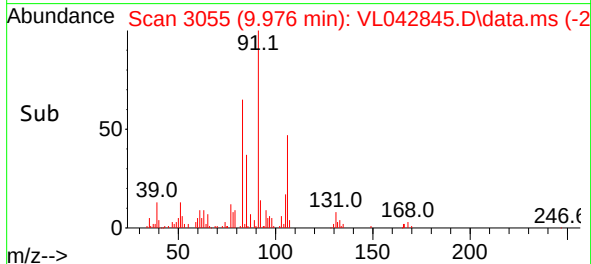
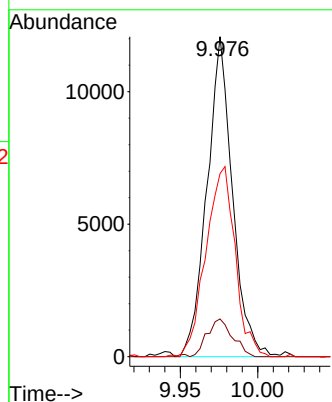
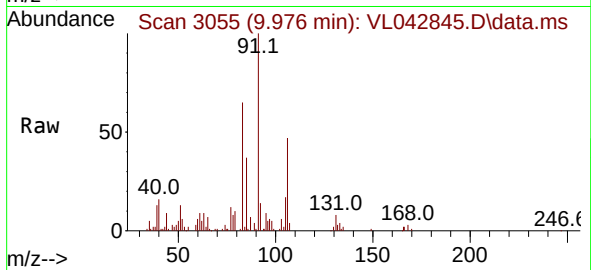
#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.523 ppbv  
RT: 9.976 min Scan# 3054  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 83 Resp: 13828  
Ion Ratio Lower Upper  
83 100  
131 12.0 4.8 14.3  
85 68.3 32.3 96.8

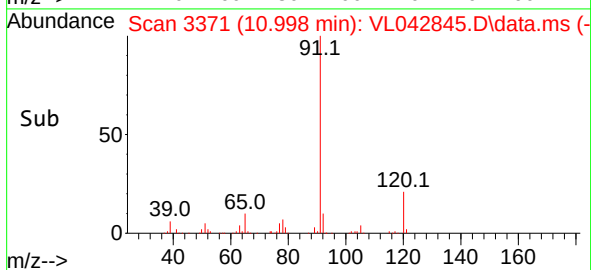
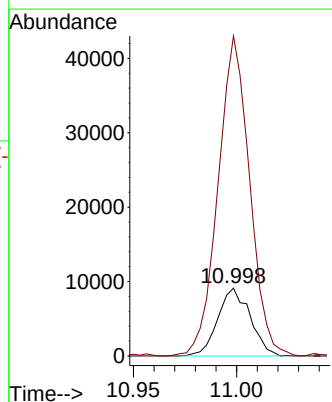
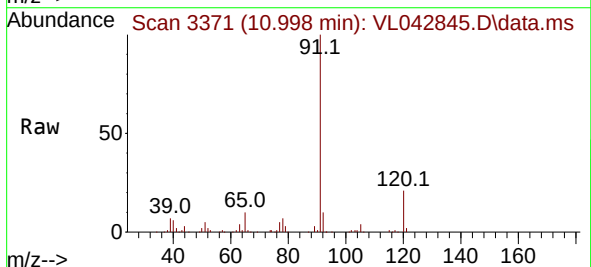
Manual Integrations  
APPROVED

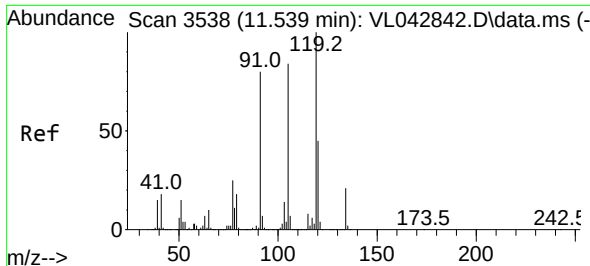
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#64  
n-propylbenzene  
Concen: 0.550 ppbv  
RT: 10.998 min Scan# 3371  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

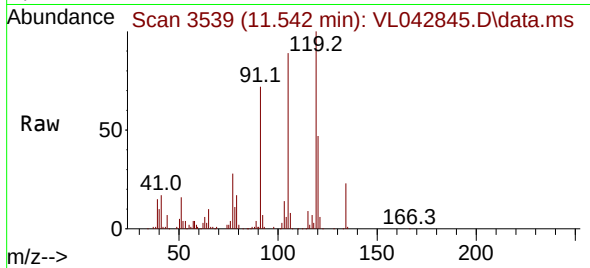
Tgt Ion:120 Resp: 9922  
Ion Ratio Lower Upper  
120 100  
91 463.3 375.8 563.6





#65  
tert-Butylbenzene  
Concen: 0.532 ppbv  
RT: 11.542 min Scan# 3538  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

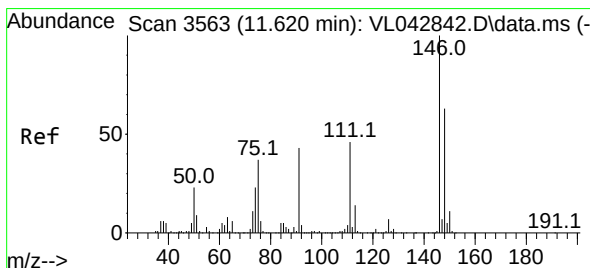
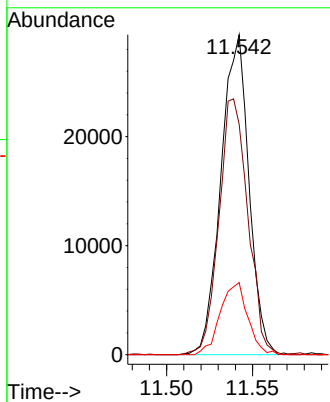
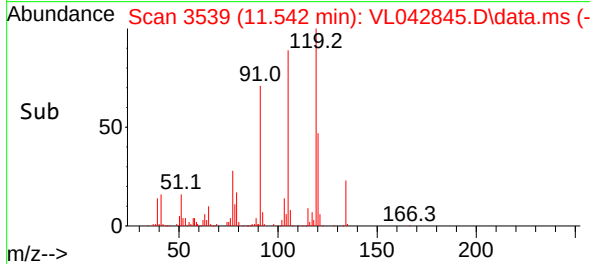
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



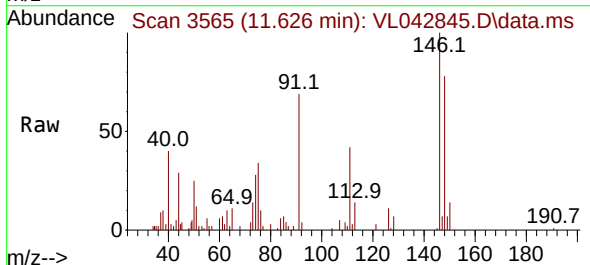
Tgt Ion: 119 Resp: 3318  
Ion Ratio Lower Upper  
119 100  
91 82.8 63.9 95.9  
134 22.1 17.0 25.4

Manual Integrations  
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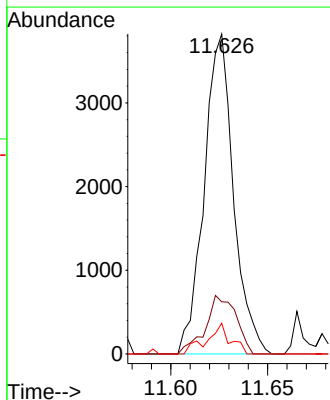
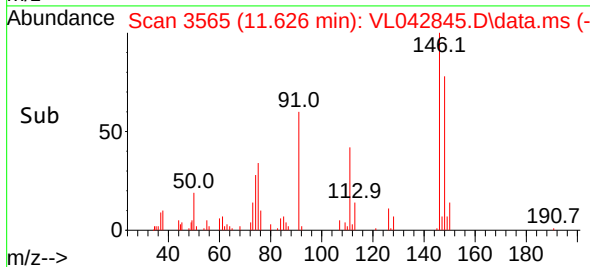
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

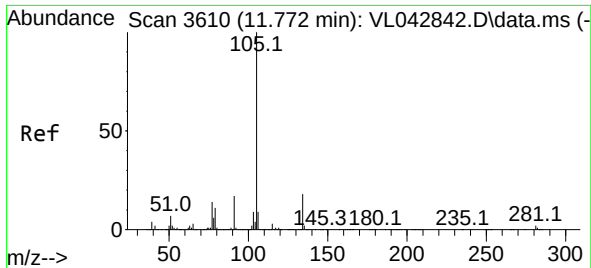


#66  
Benzyl Chloride  
Concen: 0.510 ppbv  
RT: 11.626 min Scan# 3565  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



Tgt Ion: 91 Resp: 4039  
Ion Ratio Lower Upper  
91 100  
126 19.0 14.2 21.4  
128 7.6 5.0 7.6#





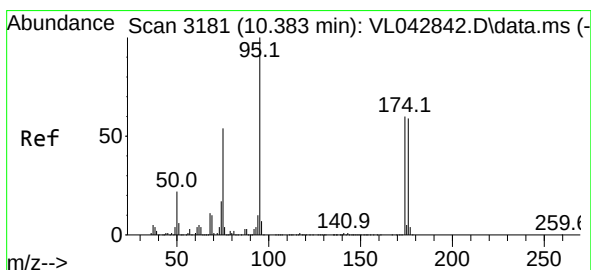
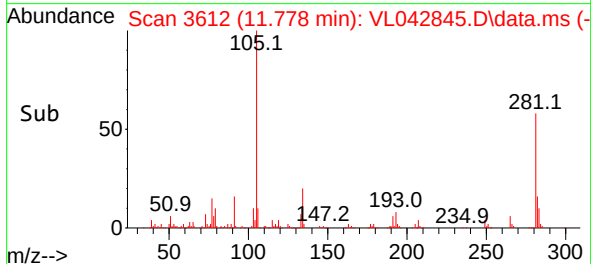
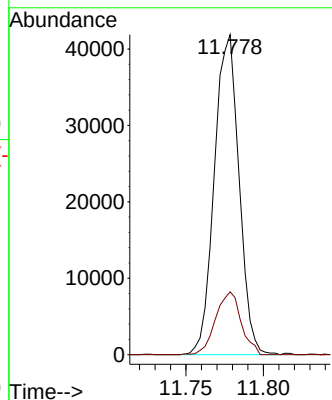
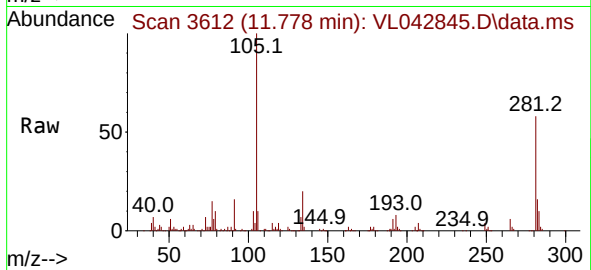
#67  
 sec-Butylbenzene  
 Concen: 0.530 ppbv  
 RT: 11.778 min Scan# 3612  
 Delta R.T. 0.006 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

Tgt Ion:105 Resp: 4643  
 Ion Ratio Lower Upper  
 105 100  
 134 20.3 14.9 22.3

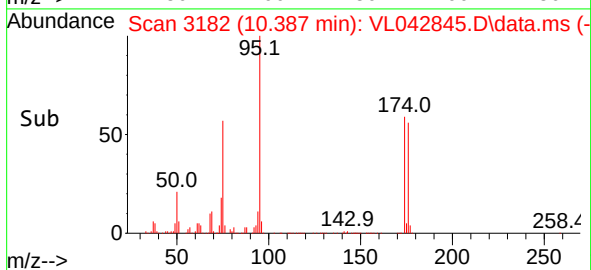
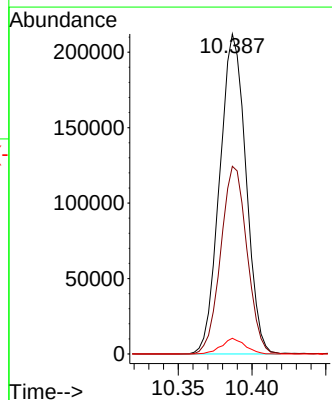
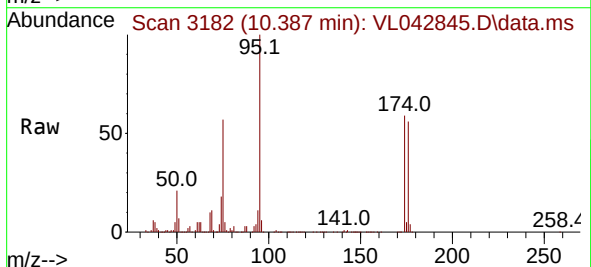
Manual Integrations  
 APPROVED

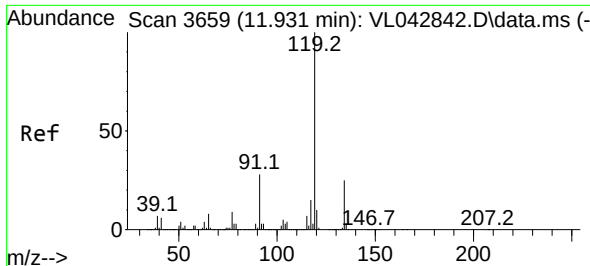
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.064 ppbv  
 RT: 10.387 min Scan# 3182  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

Tgt Ion: 95 Resp: 262663  
 Ion Ratio Lower Upper  
 95 100  
 174 58.8 48.4 72.6  
 175 4.4 3.8 5.8





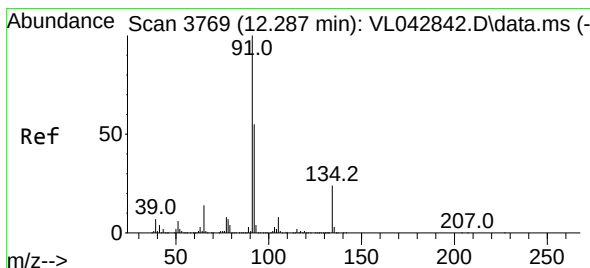
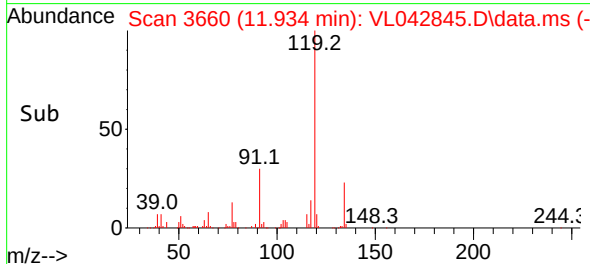
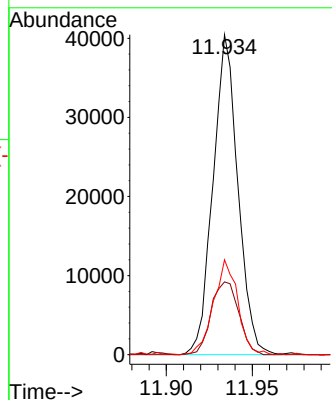
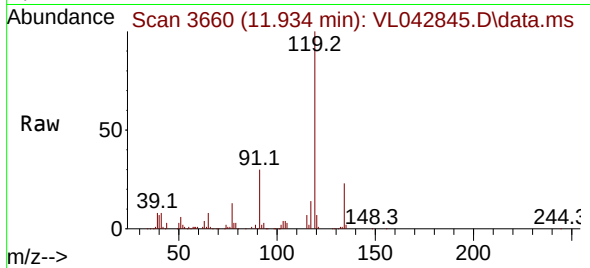
#69  
p-Isopropyltoluene  
Concen: 0.541 ppbv  
RT: 11.934 min Scan# 3659  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:119 Resp: 40680  
Ion Ratio Lower Upper  
119 100  
134 25.4 20.6 30.8  
91 29.0 22.6 34.0

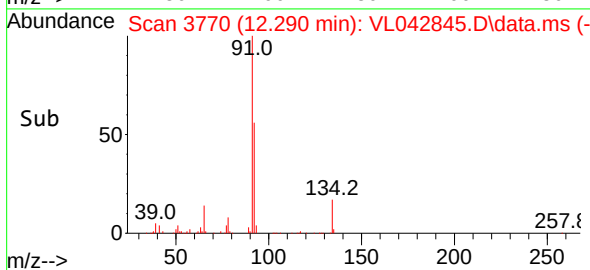
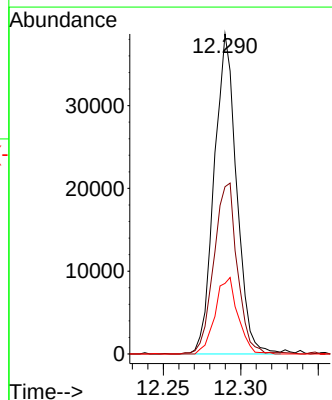
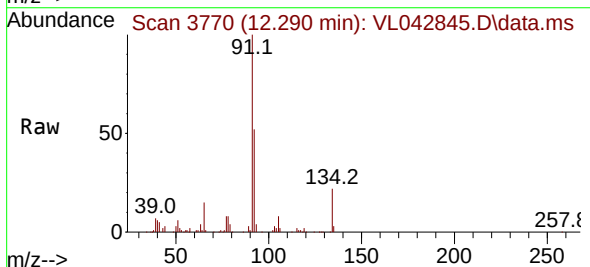
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

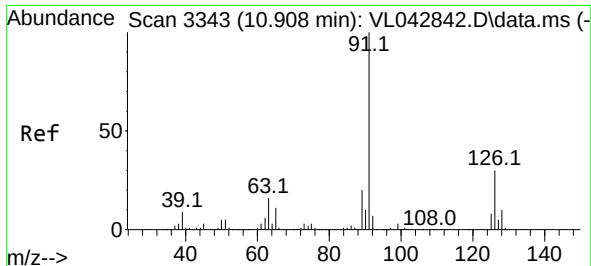


#70  
n-Butylbenzene  
Concen: 0.521 ppbv  
RT: 12.290 min Scan# 3770  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 38867  
Ion Ratio Lower Upper  
91 100  
92 56.1 44.6 66.8  
134 24.2 19.0 28.4







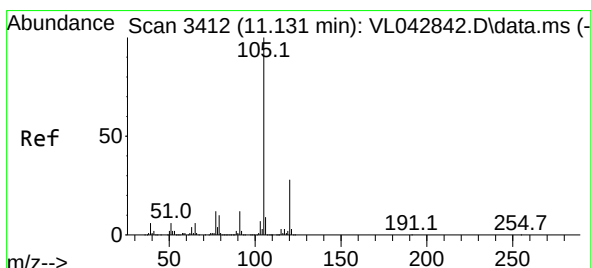
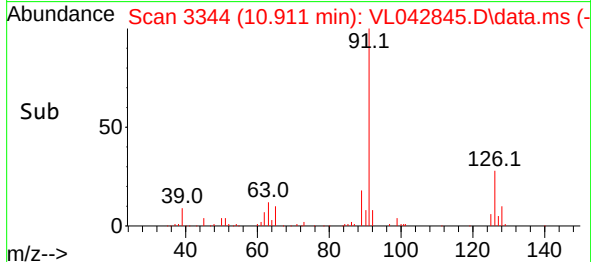
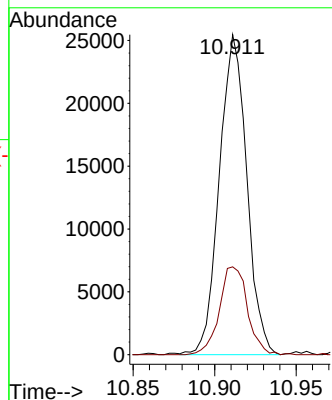
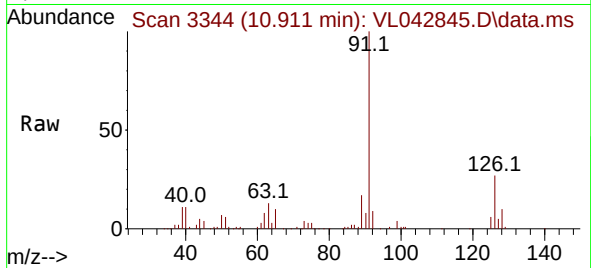
#71  
2-Chlorotoluene  
Concen: 0.541 ppbv  
RT: 10.911 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 91 Resp: 29730  
Ion Ratio Lower Upper  
91 100  
126 28.2 12.0 47.8

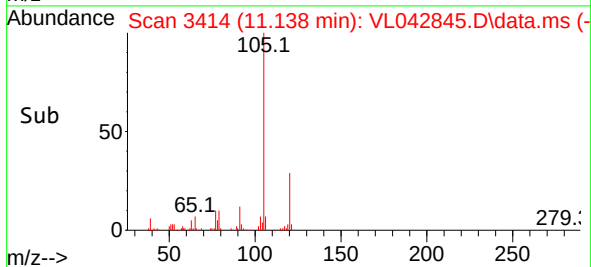
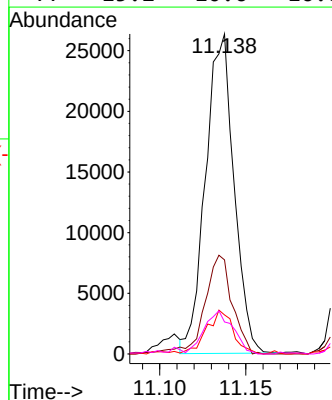
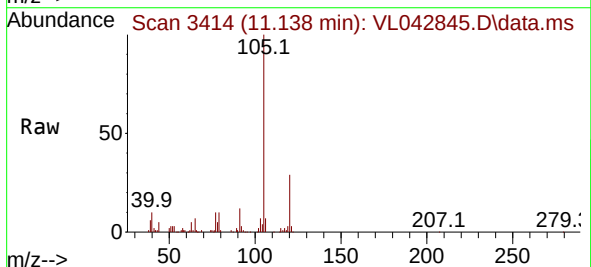
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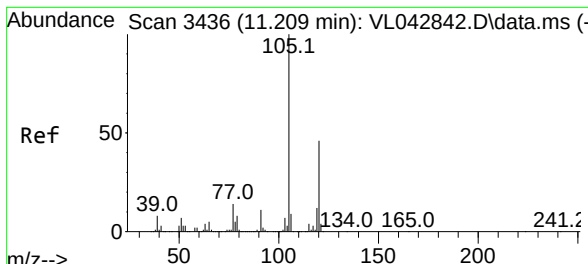
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#72  
4-Ethyltoluene  
Concen: 0.515 ppbv  
RT: 11.138 min Scan# 3414  
Delta R.T. 0.007 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 30234  
Ion Ratio Lower Upper  
105 100  
120 30.5 23.4 35.2  
91 13.8 9.8 14.6  
77 15.2 10.6 16.0



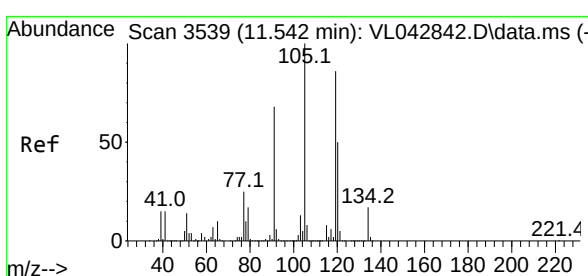
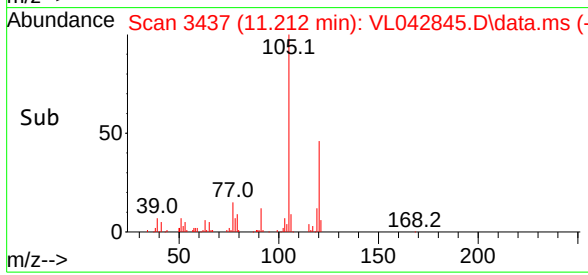
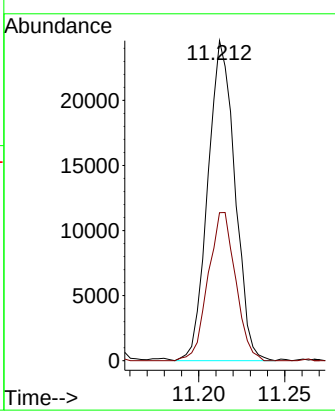
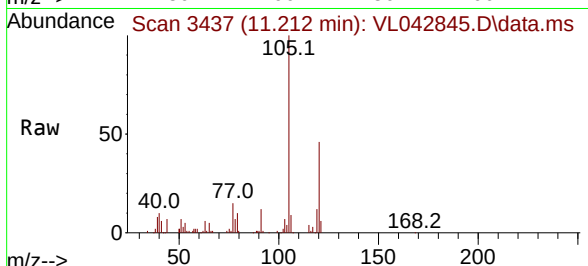


#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.540 ppbv  
 RT: 11.212 min Scan# 3436  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

Instrument : MSVOA\_1  
 ClientSampleId : VSTDIC0.5

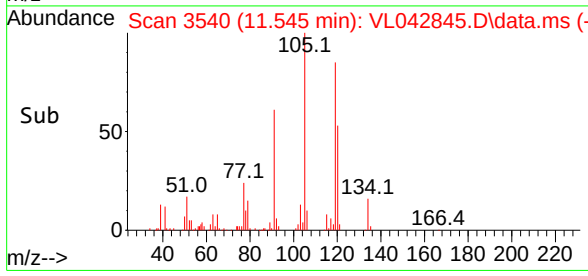
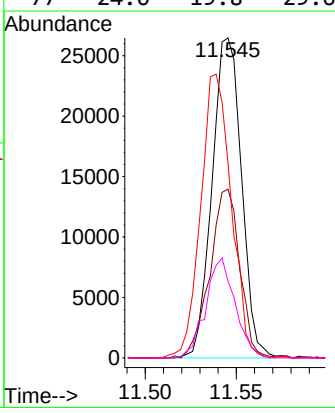
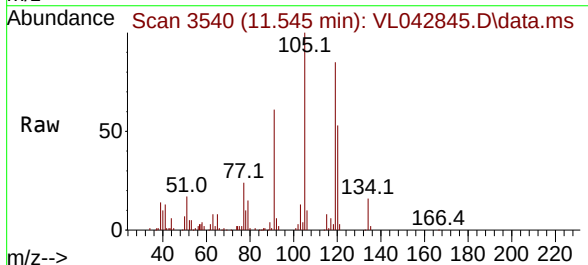
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 2694 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 46.2  | 36.6  | 54.8 |

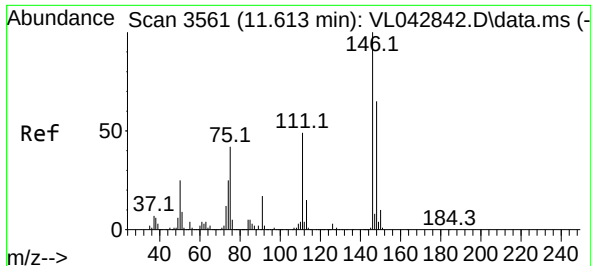
Manual Integrations  
**APPROVED**  
 Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.543 ppbv  
 RT: 11.545 min Scan# 3540  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

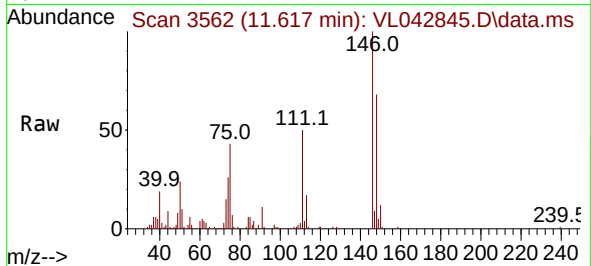
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 29750 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 52.4  | 39.8  | 59.6  |
| 91        | 60.6  | 54.2  | 81.4  |
| 77        | 24.0  | 19.8  | 29.6  |





#75  
1,3-Dichlorobenzene  
Concen: 0.524 ppbv  
RT: 11.617 min Scan# 3561  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

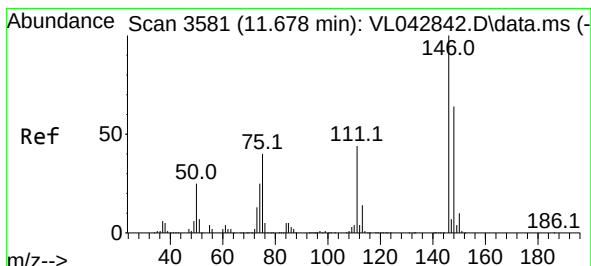
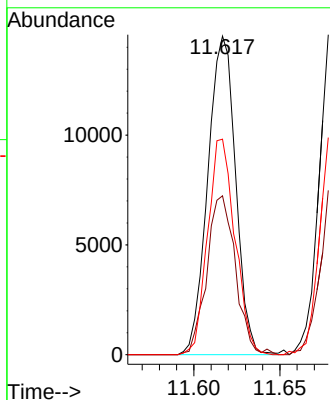
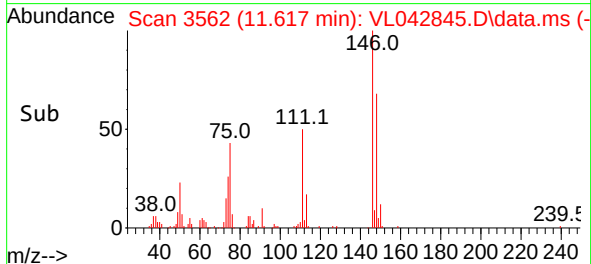
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



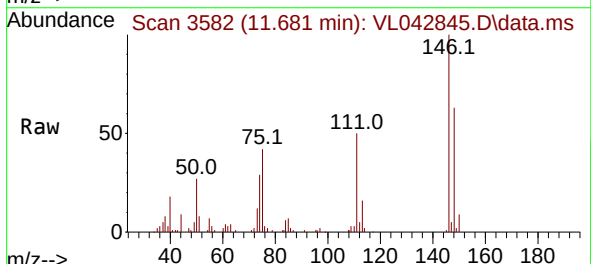
Tgt Ion:146 Resp: 1631  
Ion Ratio Lower Upper  
146 100  
111 51.2 23.9 71.7  
148 66.5 31.4 94.0

Manual Integrations  
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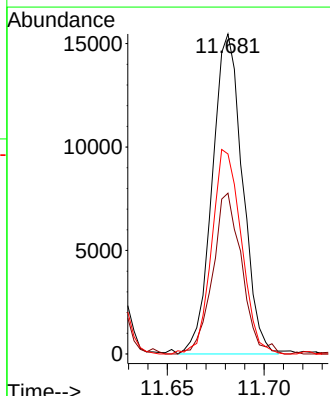
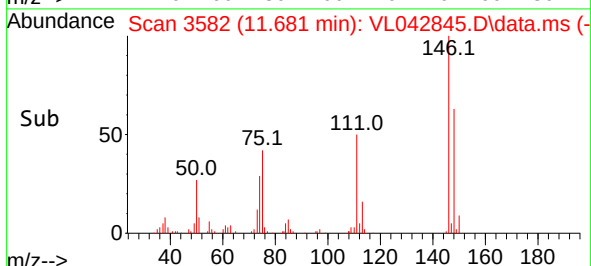
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

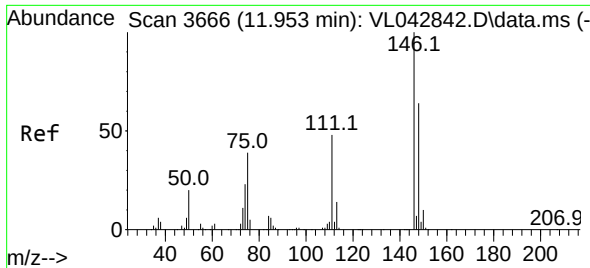


#76  
1,4-Dichlorobenzene  
Concen: 0.533 ppbv  
RT: 11.681 min Scan# 3582  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



Tgt Ion:146 Resp: 16803  
Ion Ratio Lower Upper  
146 100  
111 48.3 22.7 68.1  
148 62.7 31.8 95.3





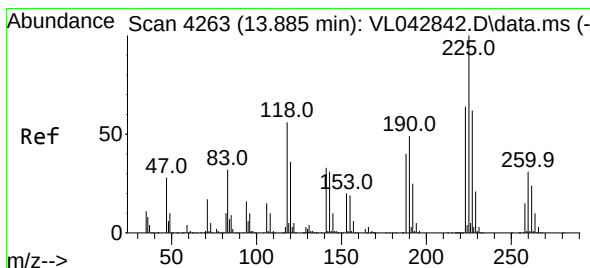
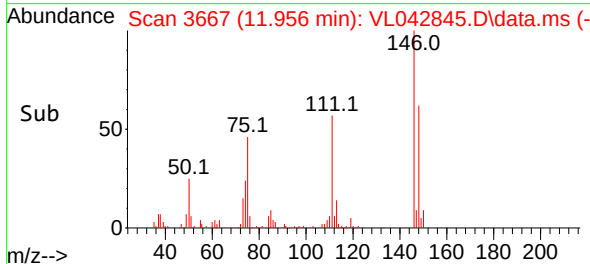
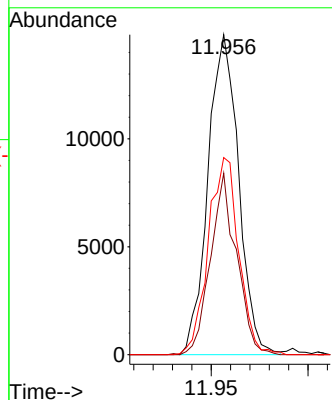
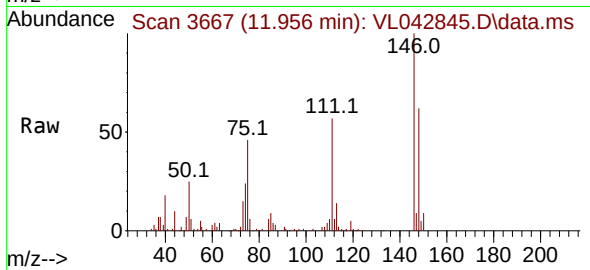
#77  
1,2-Dichlorobenzene  
Concen: 0.535 ppbv  
RT: 11.956 min Scan# 3667  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:146 Resp: 16300  
Ion Ratio Lower Upper  
146 100  
111 48.2 24.6 74.0  
148 61.1 32.0 96.0

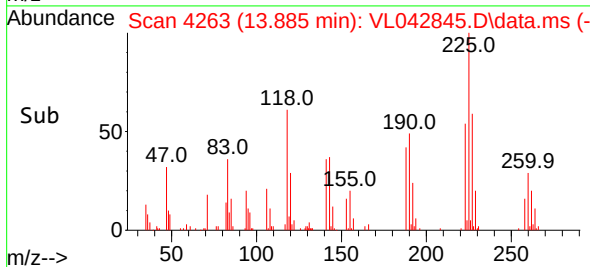
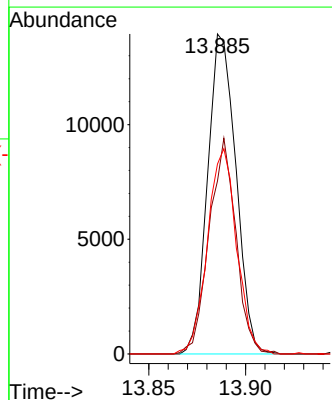
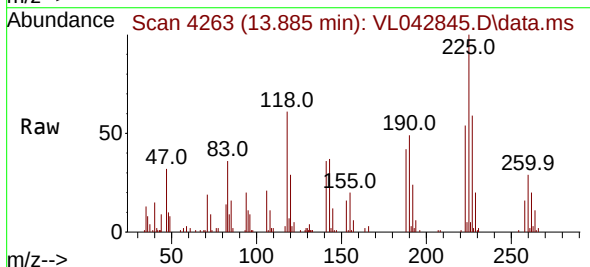
Manual Integrations  
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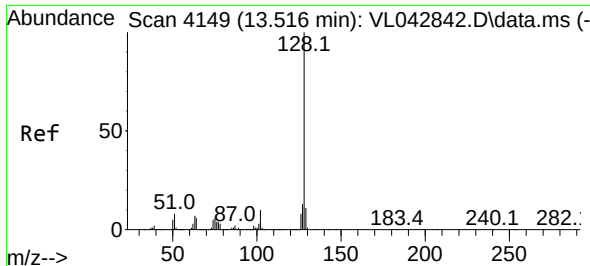
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.567 ppbv  
RT: 13.885 min Scan# 4263  
Delta R.T. 0.000 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

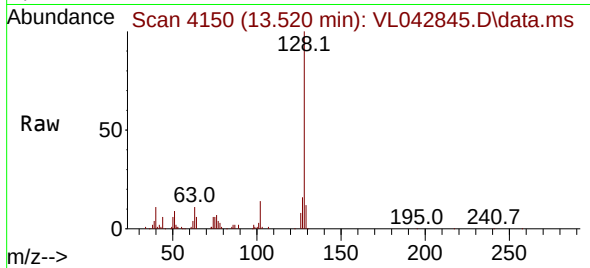
Tgt Ion:225 Resp: 14165  
Ion Ratio Lower Upper  
225 100  
223 63.7 51.4 77.2  
227 66.2 51.9 77.9





#79  
Naphthalene  
Concen: 0.491 ppbv  
RT: 13.520 min Scan# 4149  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

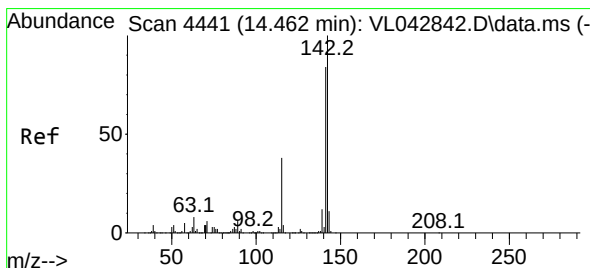
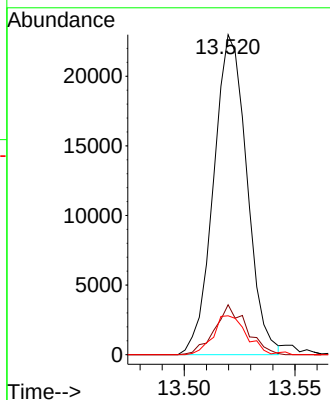
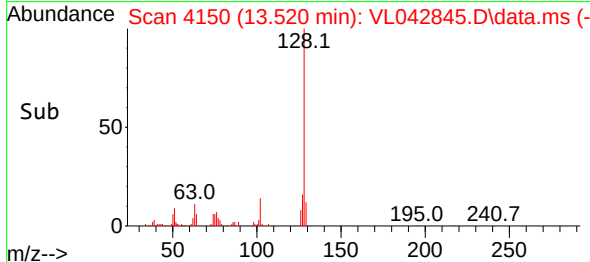
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5



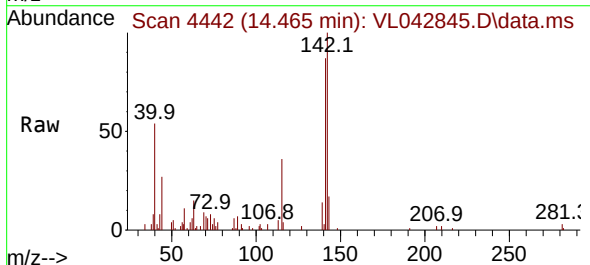
Tgt Ion:128 Resp: 24050  
Ion Ratio Lower Upper  
128 100  
127 15.6 10.6 16.0  
129 12.2 8.9 13.3

Manual Integrations  
APPROVED

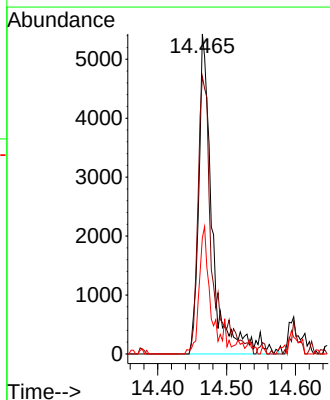
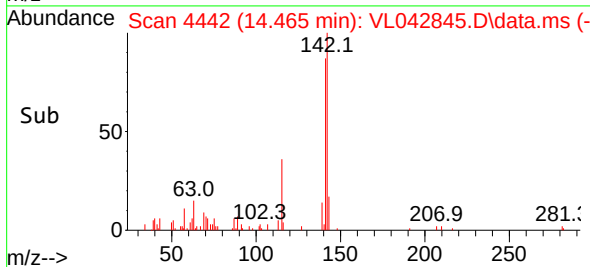
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

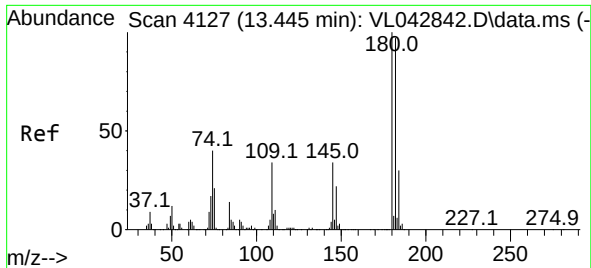


#80  
Naphthalene,2-methyl-  
Concen: 0.405 ppbv  
RT: 14.465 min Scan# 4442  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17



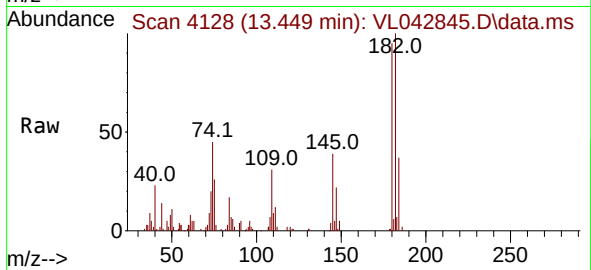
Tgt Ion:142 Resp: 7482  
Ion Ratio Lower Upper  
142 100  
141 90.9 67.0 100.6  
115 38.5 30.9 46.3





#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.434 ppbv  
 RT: 13.449 min Scan# 4128  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

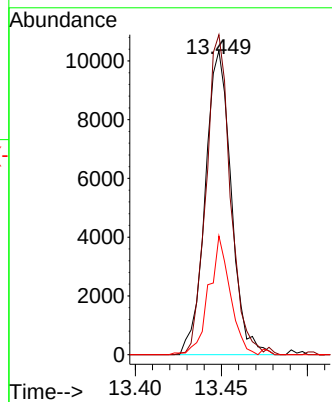
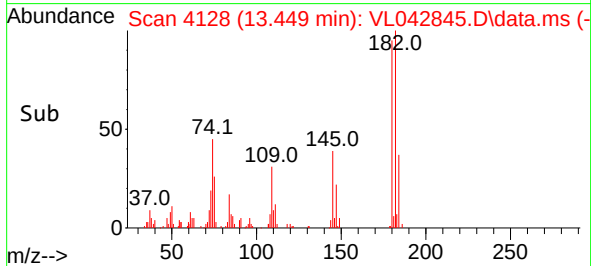
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5



|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 1084       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 99.1  | 76.9 115.3 |
| 184         | 32.6  | 24.5 36.7  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042846.D  
 Acq On : 13 Aug 2025 10:53  
 Operator : SY/MD  
 Sample : VSTDICC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:49:21 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 2025  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.790  | 49    | 123711   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.962  | 114   | 390520   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.888  | 117   | 345073   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.383 | 95    | 257439   | 9.948    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 99.500%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.583  | 62    | 790      | 0.110    | ppbv # | 86       |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 3128m    | 0.113    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.774  | 117   | 2883     | 0.107    | ppbv   | 89       |
| 38) Trichloroethene           | 4.557  | 130   | 1748m    | 0.102    | ppbv   |          |
| 52) Tetrachloroethene         | 8.234  | 164   | 1479m    | 0.109    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.665  | 107   | 2339m    | 0.111    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83    | 2672     | 0.102    | ppbv   | 99       |
| 79) Naphthalene               | 13.520 | 128   | 4051m    | 0.083    | ppbv   |          |
| -----                         |        |       |          |          |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

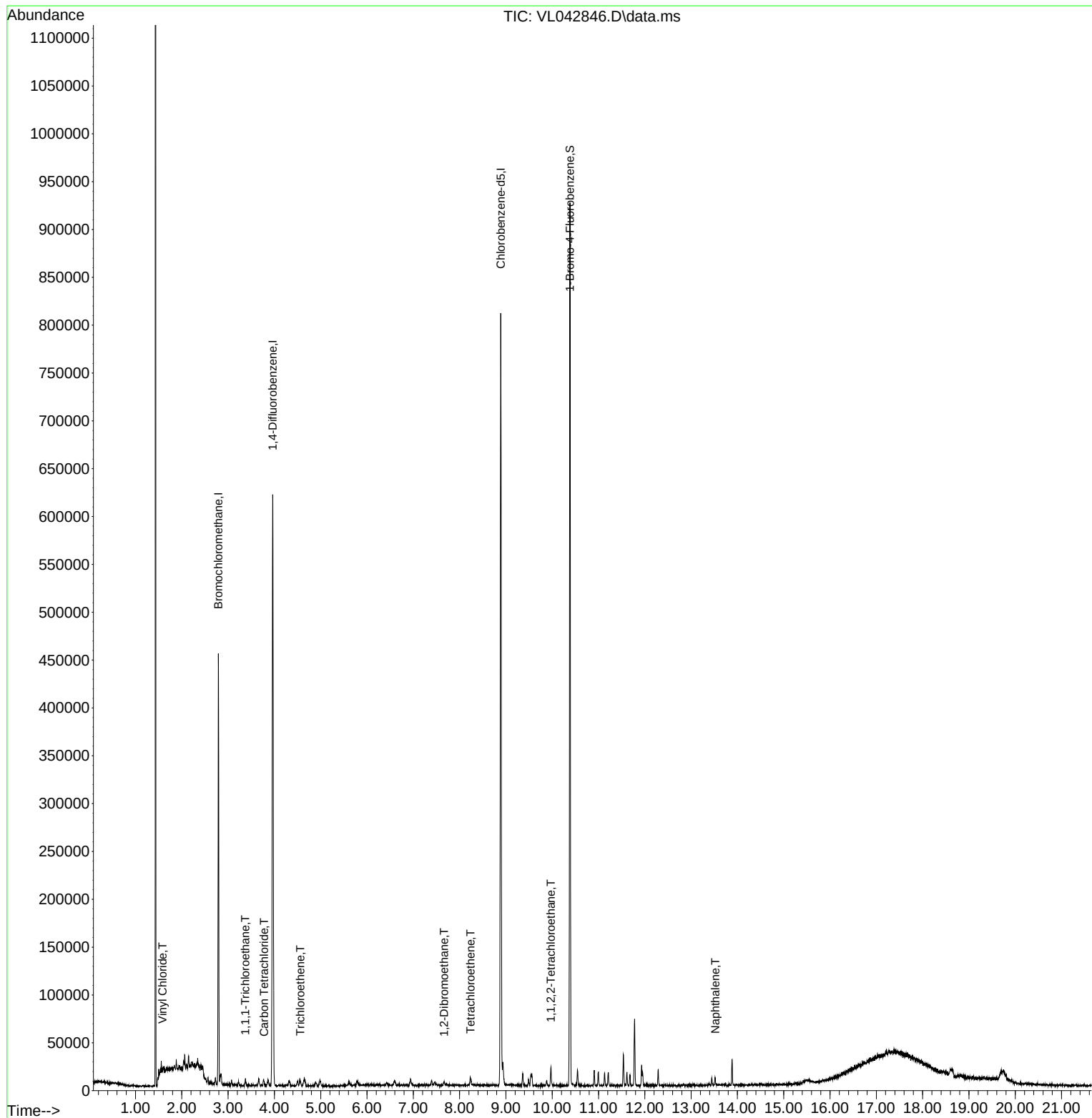
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
Data File : VL042846.D  
Acq On : 13 Aug 2025 10:53  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

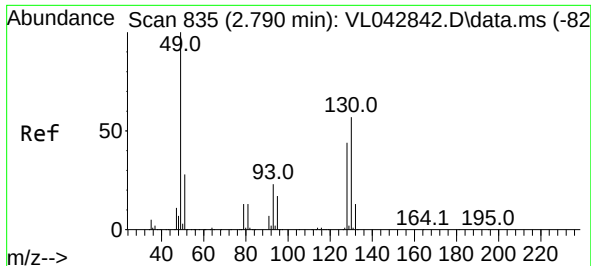
Quant Time: Aug 14 01:49:21 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Thu Aug 14 01:44:36 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025  
Supervised By : Mahesh Dadoda 08/18/2025

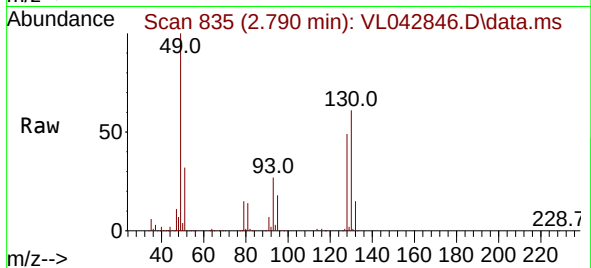






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

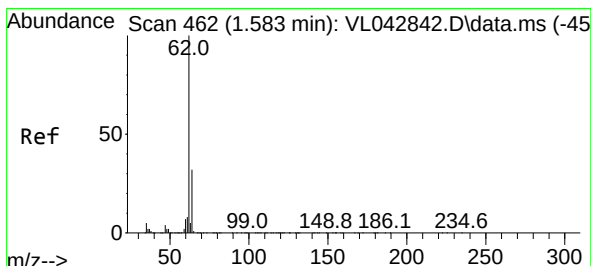
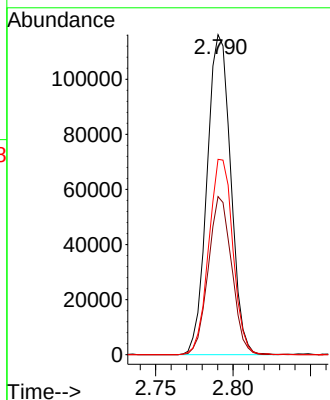
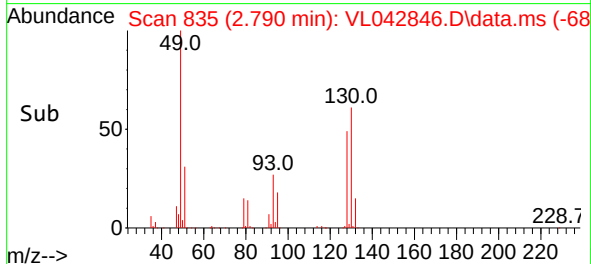
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



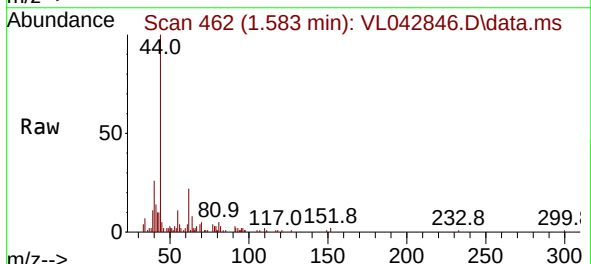
Tgt Ion: 49 Resp: 12371  
Ion Ratio Lower Upper  
49 100  
128 48.6 23.7 71.1  
130 62.1 30.6 91.6

Manual Integrations  
APPROVED

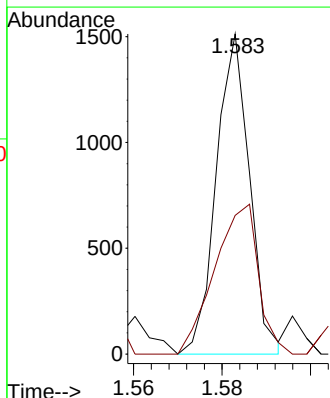
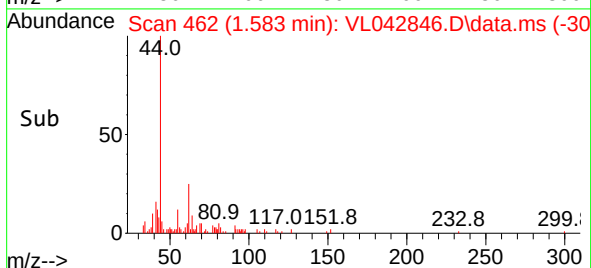
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

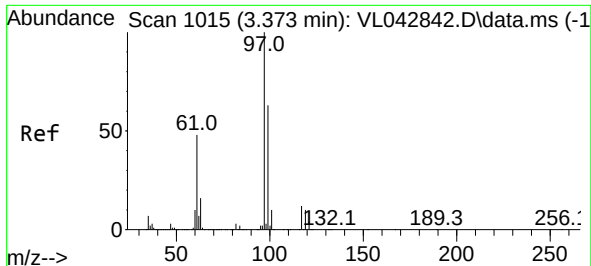


#5  
Vinyl Chloride  
Concen: 0.110 ppbv  
RT: 1.583 min Scan# 462  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53



Tgt Ion: 62 Resp: 790  
Ion Ratio Lower Upper  
62 100  
64 39.7 25.4 38.2#





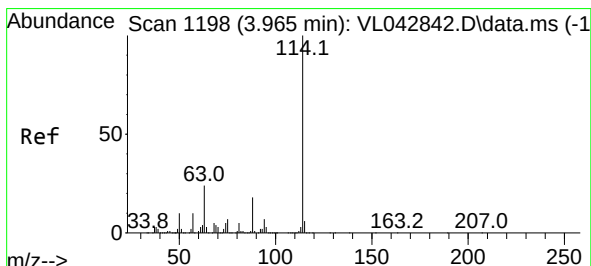
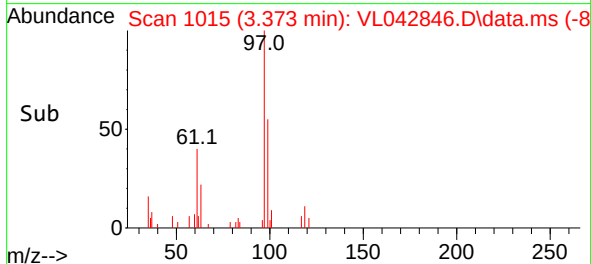
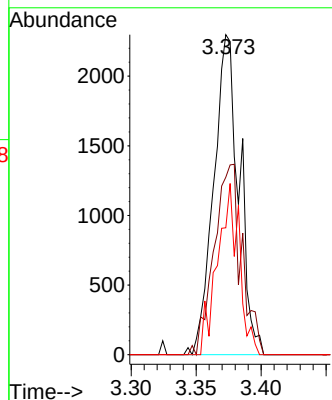
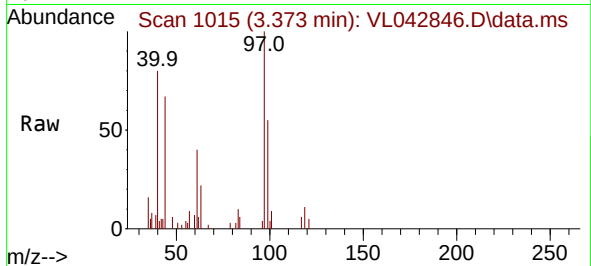
#32  
1,1,1-Trichloroethane  
Concen: 0.113 ppbv m  
RT: 3.373 min Scan# 1015  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

Tgt Ion: 97 Resp: 3128  
Ion Ratio Lower Upper  
97 100  
99 64.1 51.0 76.6  
61 45.6 38.0 57.0

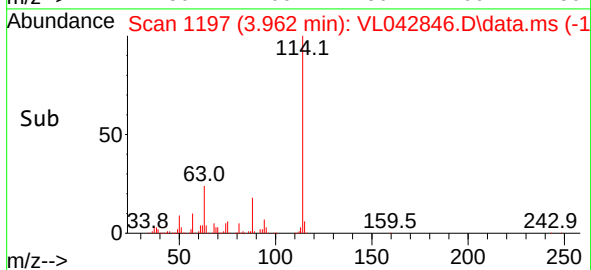
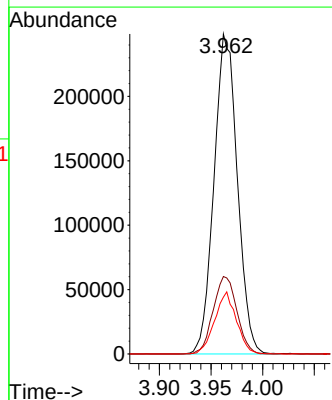
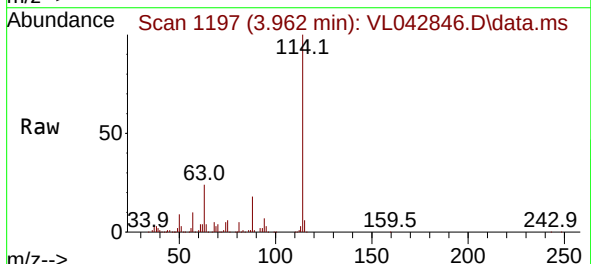
Manual Integrations  
APPROVED

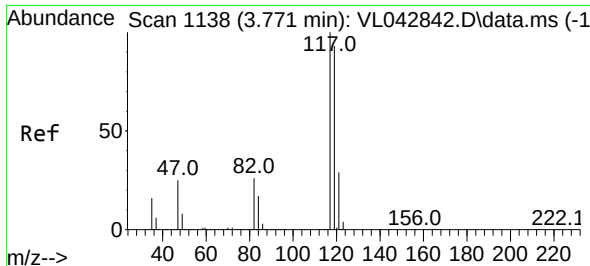
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

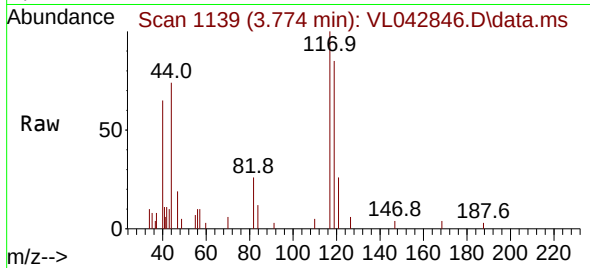
Tgt Ion:114 Resp: 390520  
Ion Ratio Lower Upper  
114 100  
63 24.6 19.7 29.5  
88 18.1 14.4 21.6





#35  
Carbon Tetrachloride  
Concen: 0.107 ppbv  
RT: 3.774 min Scan# 1138  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

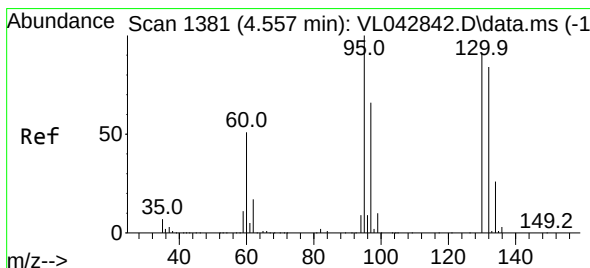
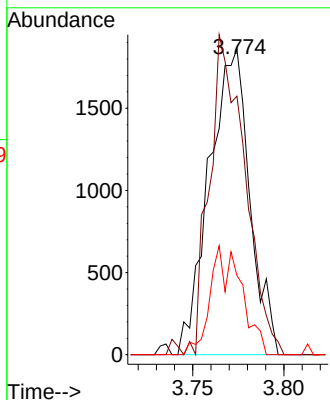
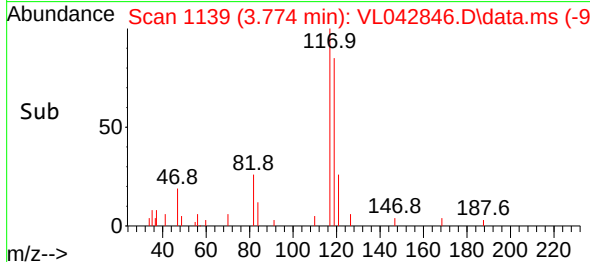
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



Tgt Ion:117 Resp: 288  
Ion Ratio Lower Upper  
117 100  
119 81.8 74.7 112.1  
121 25.9 23.2 34.8

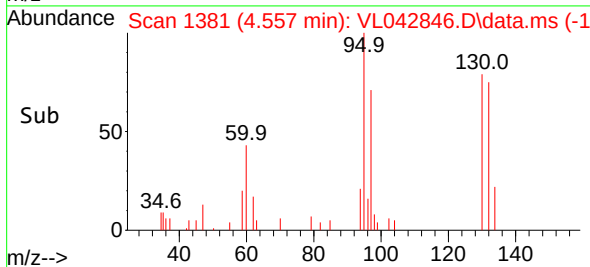
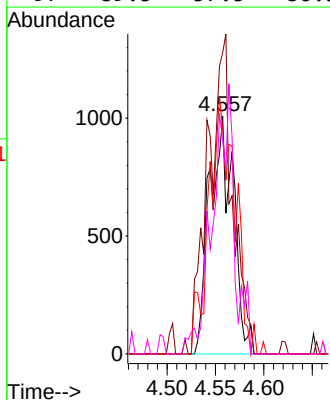
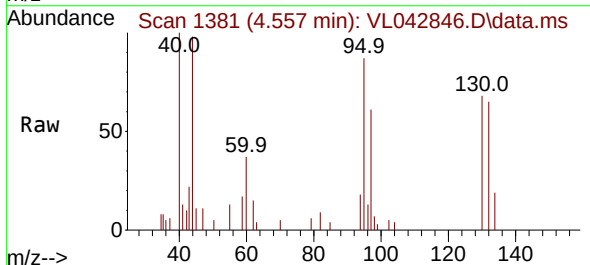
Manual Integrations  
APPROVED

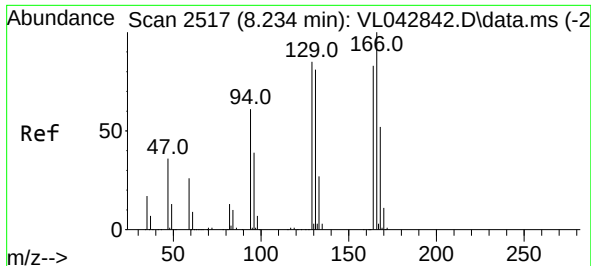
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#38  
Trichloroethene  
Concen: 0.102 ppbv m  
RT: 4.557 min Scan# 1381  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

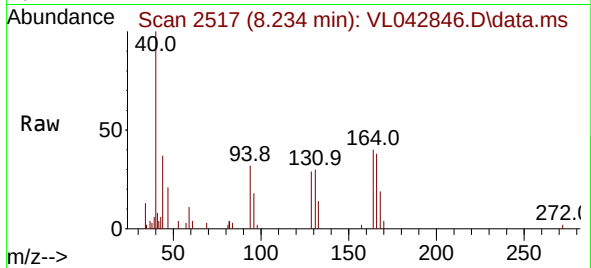
Tgt Ion:130 Resp: 1748  
Ion Ratio Lower Upper  
130 100  
95 126.6 87.6 131.4  
132 94.4 73.8 110.8  
97 89.5 57.5 86.3#





#52  
Tetrachloroethene  
Concen: 0.109 ppbv m  
RT: 8.234 min Scan# 2517  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

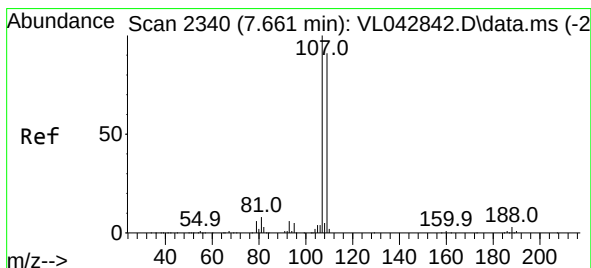
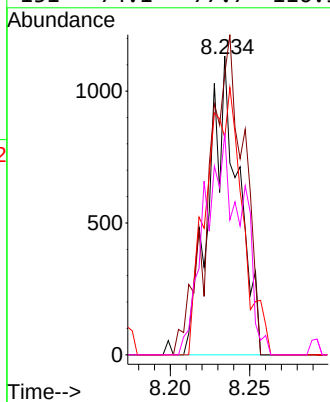
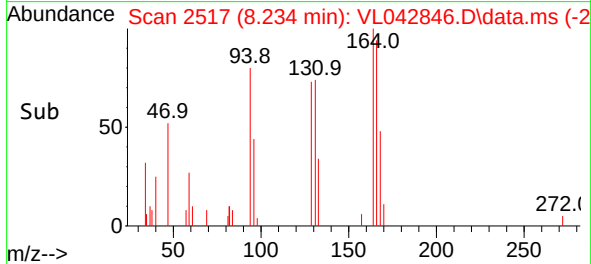
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



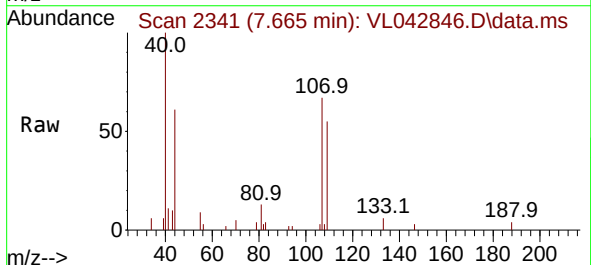
Tgt Ion:164 Resp: 1479  
Ion Ratio Lower Upper  
164 100  
166 94.0 96.5 144.7  
129 72.7 81.8 122.6  
131 74.1 77.7 116.5#

Manual Integrations  
APPROVED

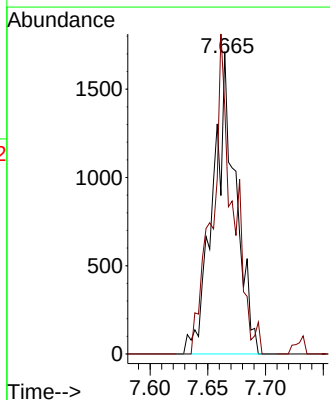
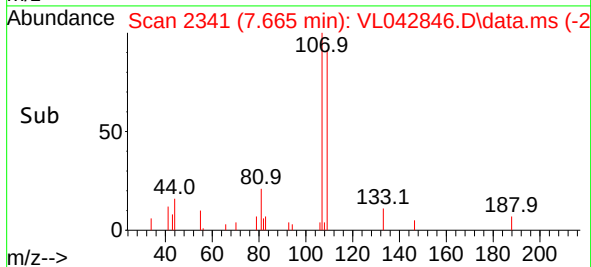
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

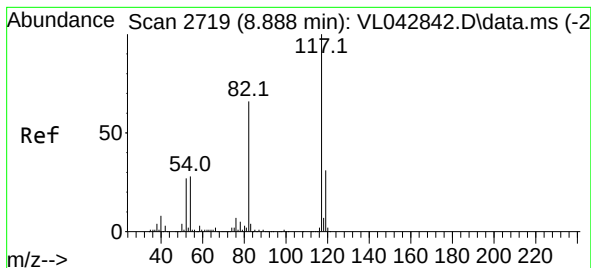


#54  
1,2-Dibromoethane  
Concen: 0.111 ppbv m  
RT: 7.665 min Scan# 2341  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53



Tgt Ion:107 Resp: 2339  
Ion Ratio Lower Upper  
107 100  
109 82.0 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

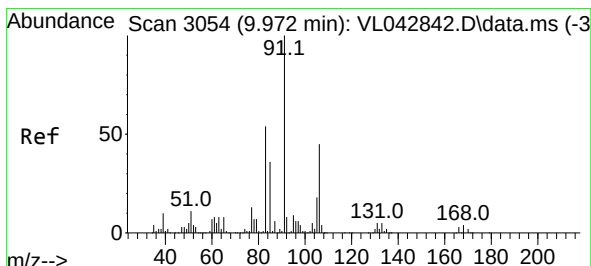
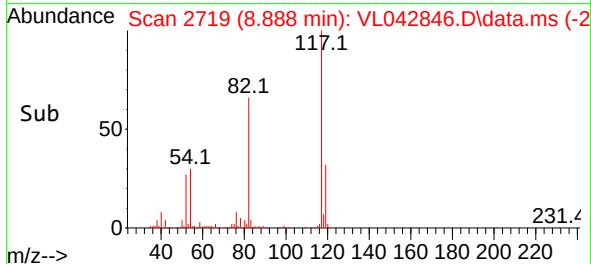
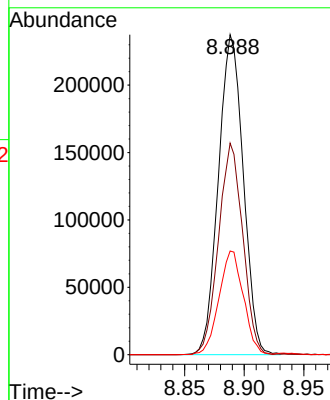
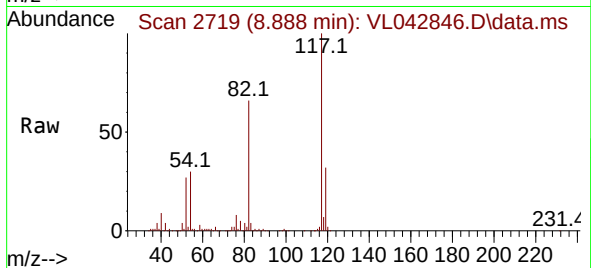
VSTDIC0.1

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 117   | Resp: | 34507 |
| Ion Ratio | Lower | Upper |       |
| 117       | 100   |       |       |
| 82        | 64.3  | 54.6  | 81.8  |
| 119       | 32.2  | 25.9  | 38.9  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#63

1,1,2,2-Tetrachloroethane

Concen: 0.102 ppbv

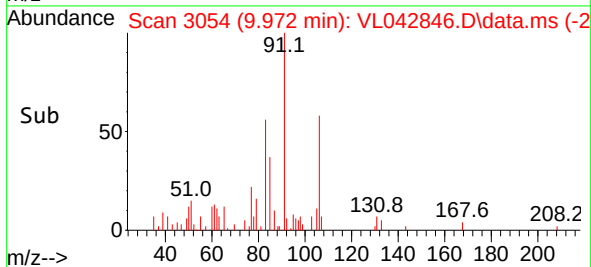
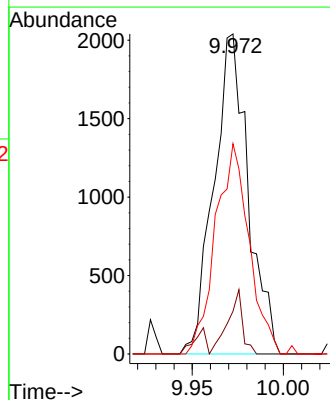
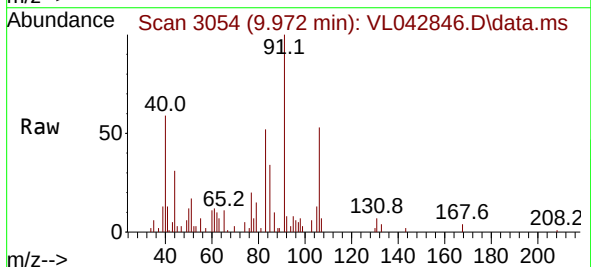
RT: 9.972 min Scan# 3054

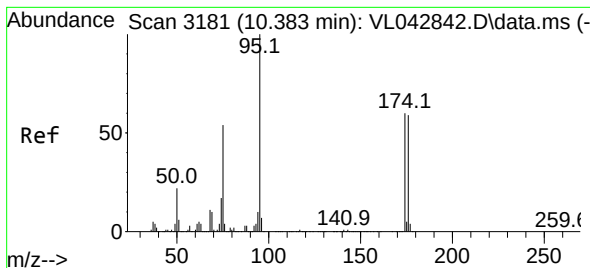
Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

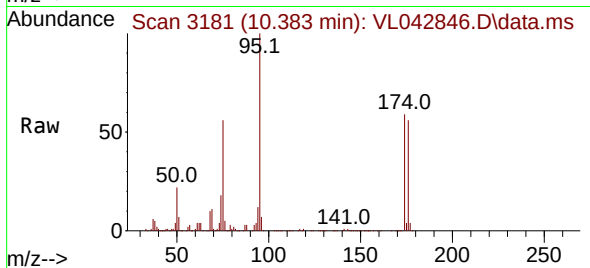
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 83    | Resp: | 2672 |
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 131       | 11.4  | 4.8   | 14.3 |
| 85        | 64.3  | 32.3  | 96.8 |





#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.948 ppbv  
RT: 10.383 min Scan# 3181  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

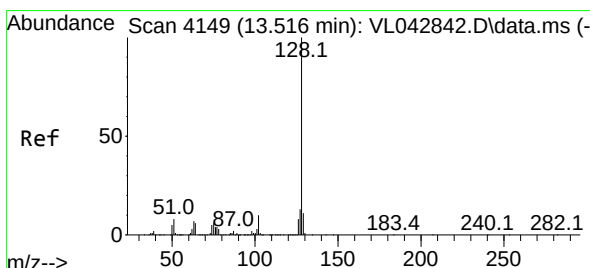
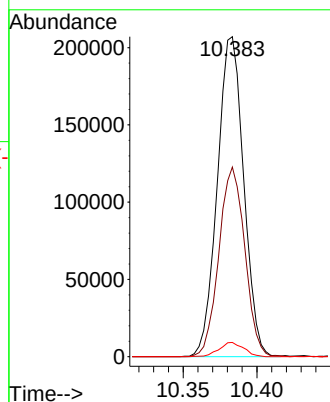
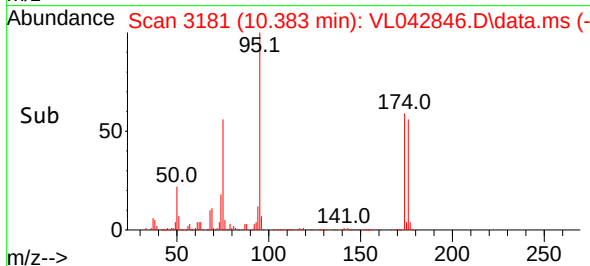
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1



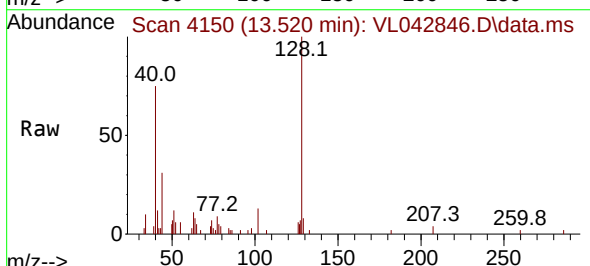
Tgt Ion: 95 Resp: 257439  
Ion Ratio Lower Upper  
95 100  
174 58.3 48.4 72.6  
175 4.2 3.8 5.8

Manual Integrations  
APPROVED

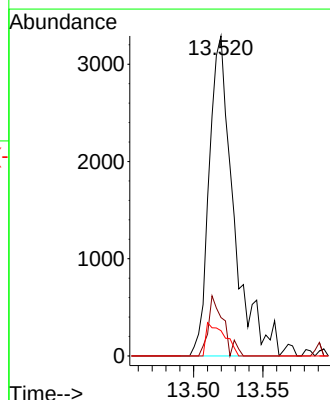
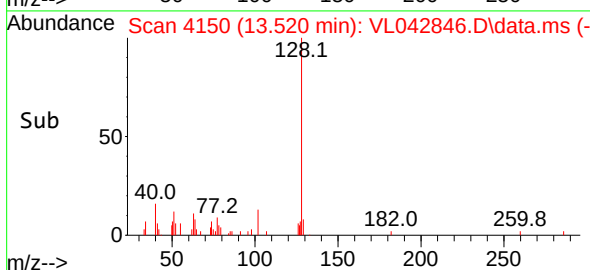
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#79  
Naphthalene  
Concen: 0.083 ppbv m  
RT: 13.520 min Scan# 4150  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53



Tgt Ion:128 Resp: 4051  
Ion Ratio Lower Upper  
128 100  
127 6.9 10.6 16.0#  
129 7.9 8.9 13.3#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
Data File : VL042847.D  
Acq On : 13 Aug 2025 11:30  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 01:50:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 14 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.793  | 49    | 122705   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.968  | 114   | 390076   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.894  | 117   | 339700   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.386 | 95    | 250082   | 9.816    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 98.200%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.583  | 62    | 268      | 0.037    | ppbv # | 81       |
| 32) 1,1,1-Trichloroethane     | 3.379  | 97    | 901m     | 0.033    | ppbv   |          |
| 35) Carbon Tetrachloride      | 3.774  | 117   | 861m     | 0.032    | ppbv   |          |
| 38) Trichloroethene           | 4.573  | 130   | 487m     | 0.029    | ppbv   |          |
| 52) Tetrachloroethene         | 8.241  | 164   | 458m     | 0.034    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83    | 898m     | 0.035    | ppbv   |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

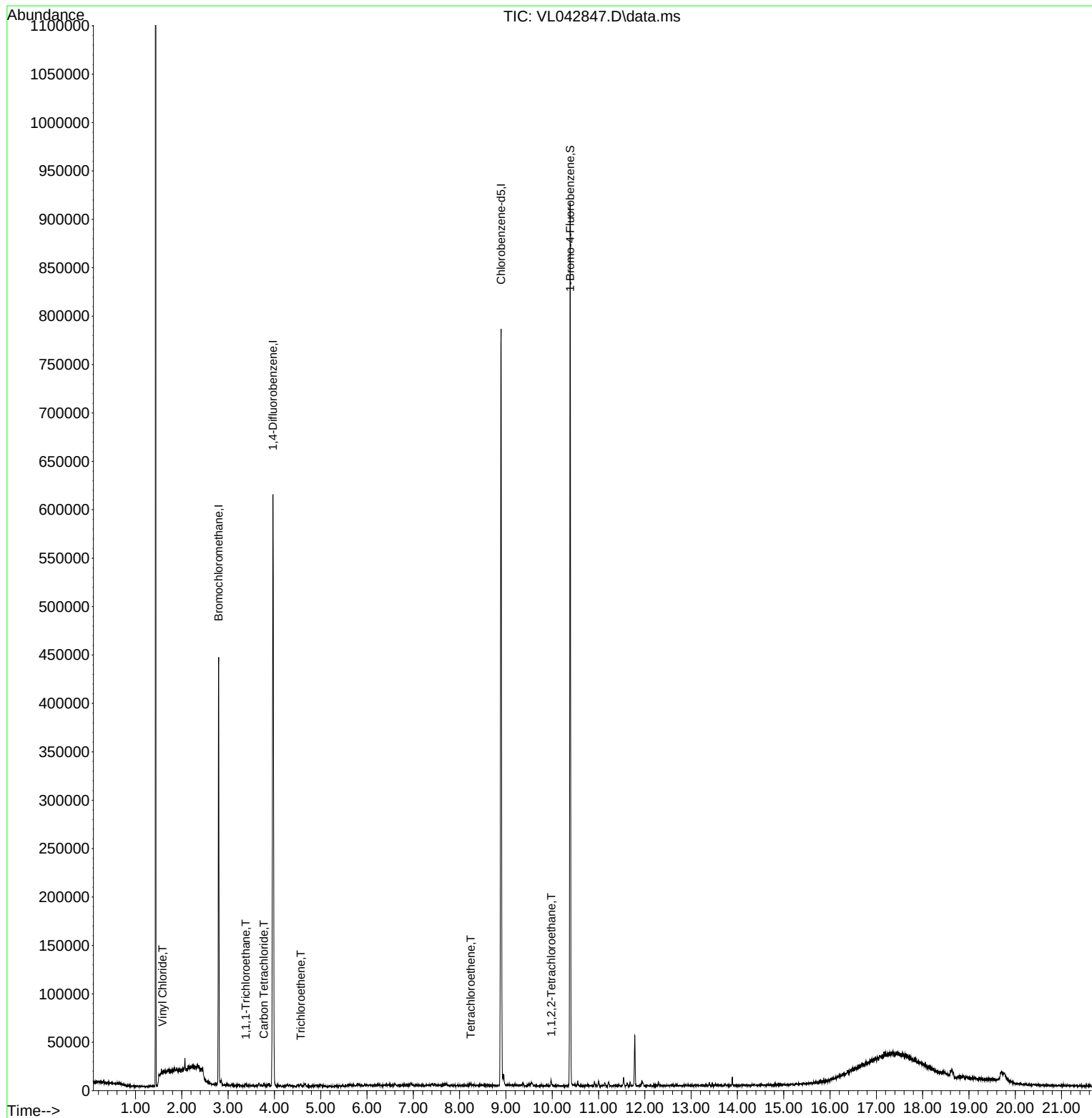
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
Data File : VL042847.D  
Acq On : 13 Aug 2025 11:30  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

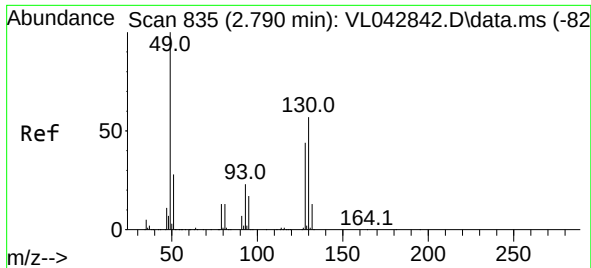
Quant Time: Aug 14 01:50:16 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Thu Aug 14 01:44:36 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025  
Supervised By : Mahesh Dadoda 08/18/2025







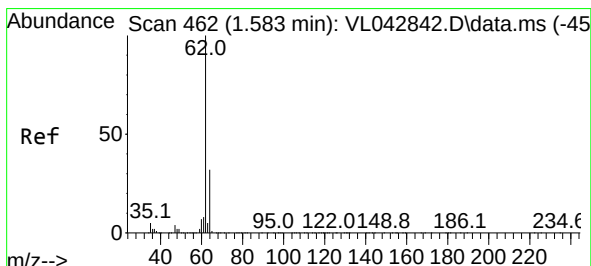
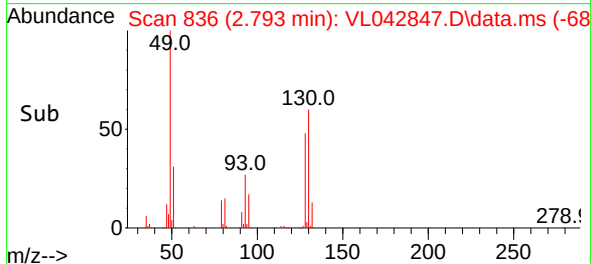
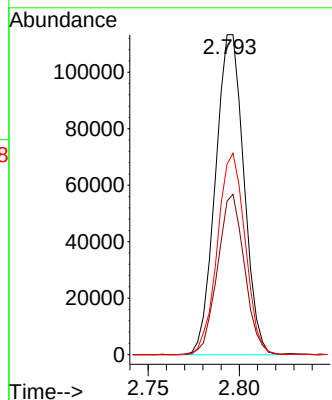
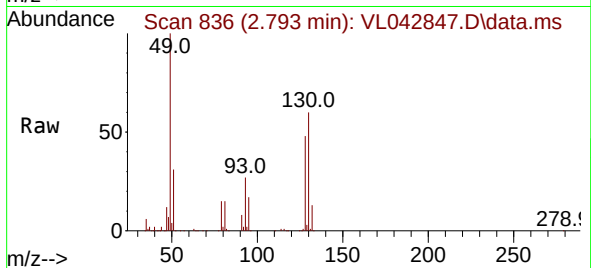
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Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.793 min Scan# 835  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Tgt Ion: 49 Resp: 12270  
Ion Ratio Lower Upper  
49 100  
128 47.7 23.7 71.1  
130 61.6 30.6 91.6

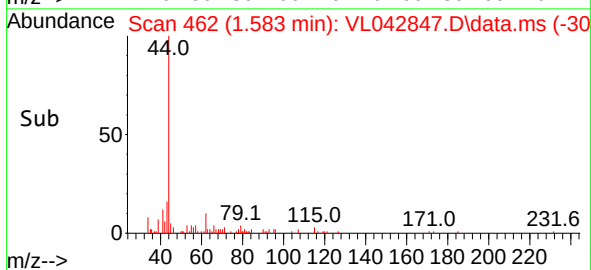
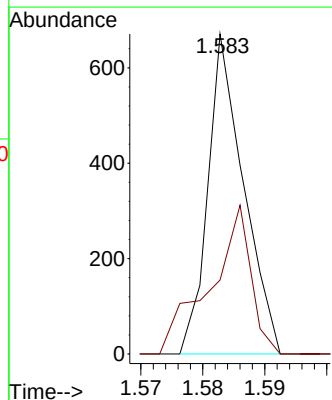
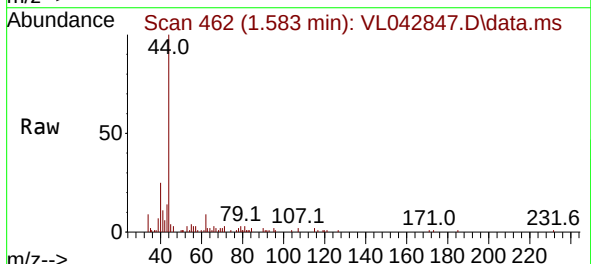
Manual Integrations  
APPROVED

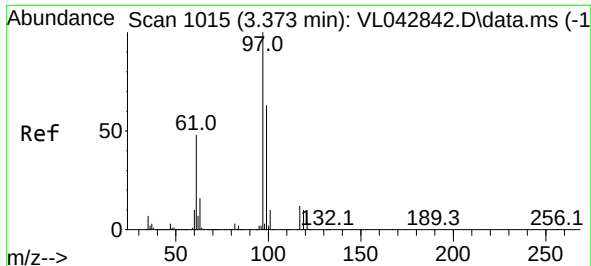
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#5  
Vinyl Chloride  
Concen: 0.037 ppbv  
RT: 1.583 min Scan# 462  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

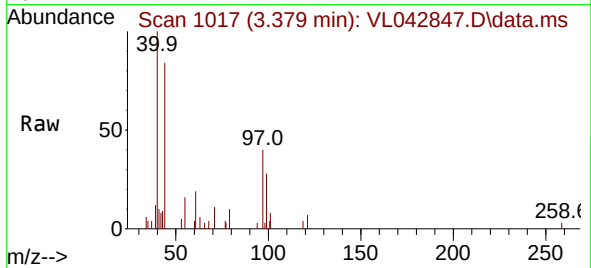
Tgt Ion: 62 Resp: 268  
Ion Ratio Lower Upper  
62 100  
64 21.2 25.4 38.2#





#32  
1,1,1-Trichloroethane  
Concen: 0.033 ppbv m  
RT: 3.379 min Scan# 1015  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

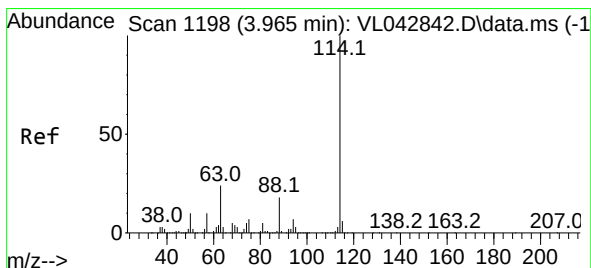
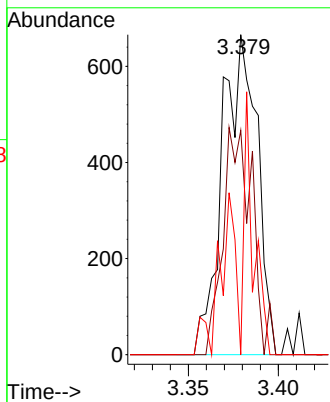
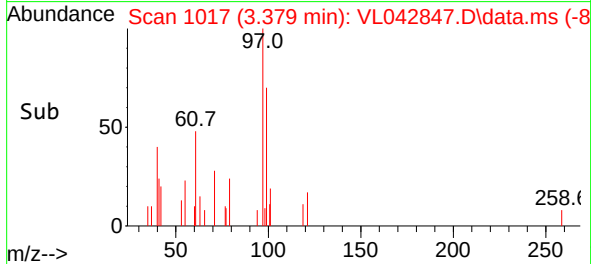
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



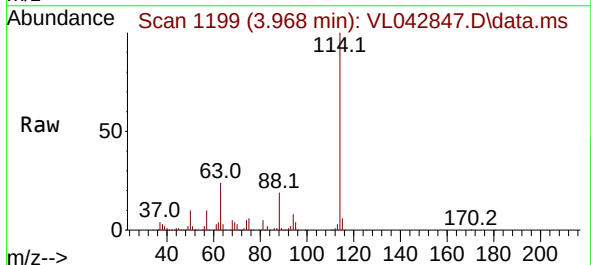
Tgt Ion: 97 Resp: 90  
Ion Ratio Lower Upper  
97 100  
99 0.0 51.0 76.6  
61 45.2 38.0 57.0

Manual Integrations  
APPROVED

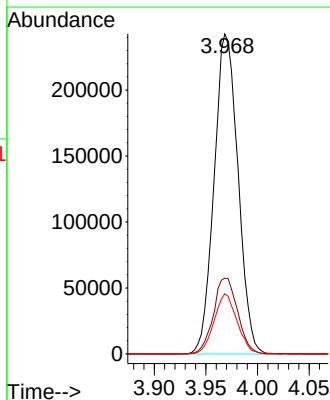
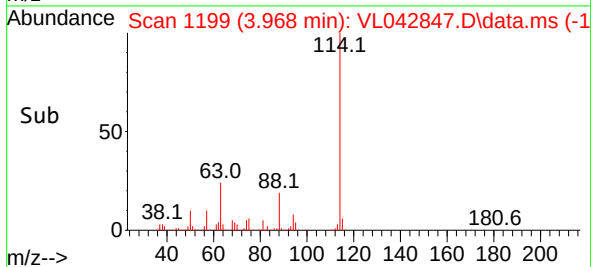
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

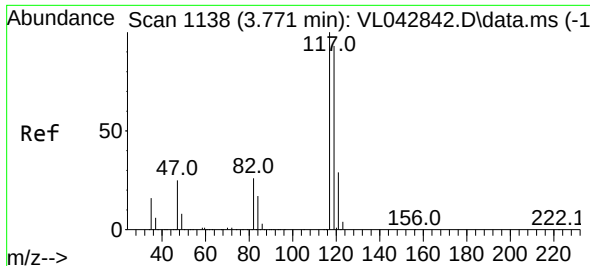


#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.968 min Scan# 1199  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30



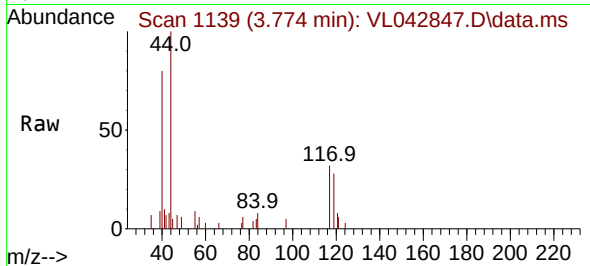
Tgt Ion:114 Resp: 390076  
Ion Ratio Lower Upper  
114 100  
63 24.1 19.7 29.5  
88 18.1 14.4 21.6





#35  
Carbon Tetrachloride  
Concen: 0.032 ppbv m  
RT: 3.774 min Scan# 1138  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

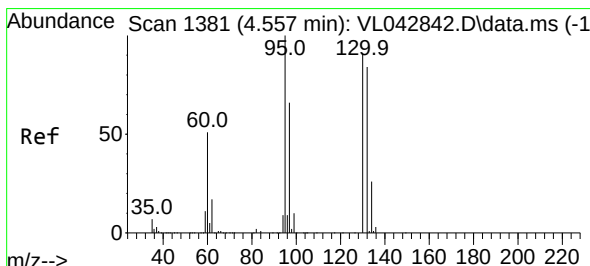
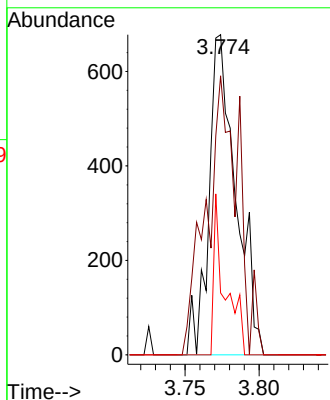
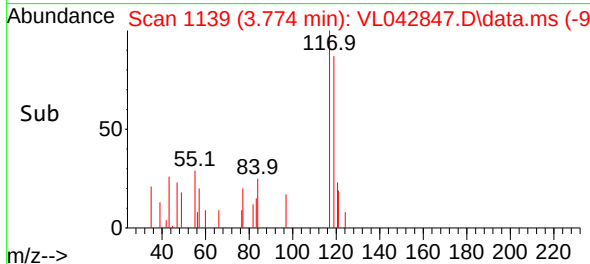
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



Tgt Ion:117 Resp: 86  
Ion Ratio Lower Upper  
117 100  
119 87.2 74.7 112.1  
121 19.3 23.2 34.8

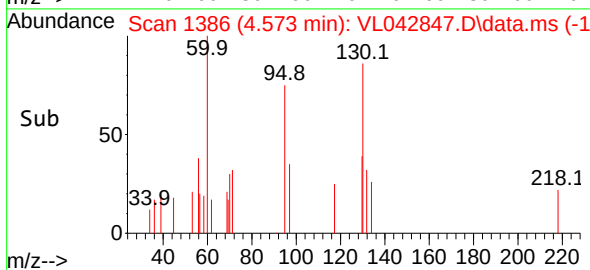
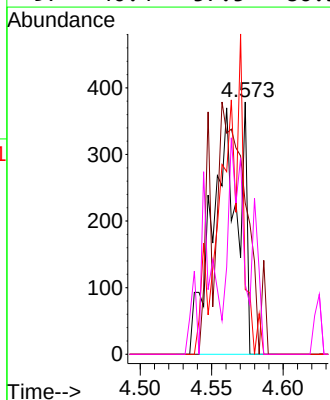
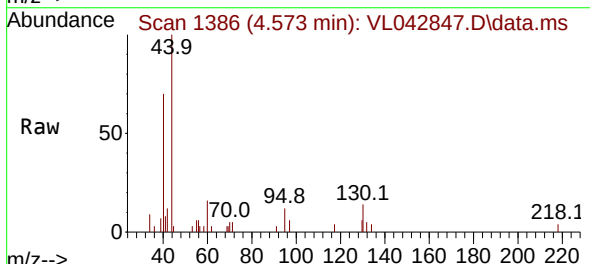
Manual Integrations  
APPROVED

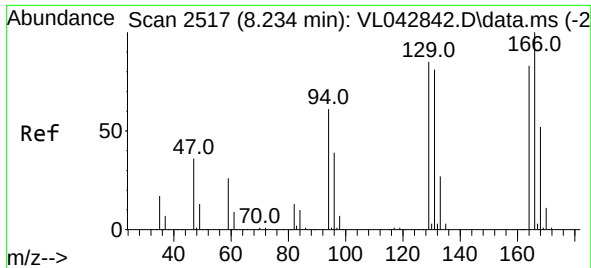
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#38  
Trichloroethene  
Concen: 0.029 ppbv m  
RT: 4.573 min Scan# 1386  
Delta R.T. 0.016 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

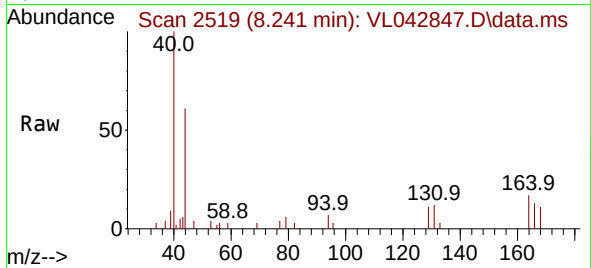
Tgt Ion:130 Resp: 487  
Ion Ratio Lower Upper  
130 100  
95 87.3 87.6 131.4#  
132 37.3 73.8 110.8#  
97 40.4 57.5 86.3#





#52  
Tetrachloroethene  
Concen: 0.034 ppbv m  
RT: 8.241 min Scan# 2519  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

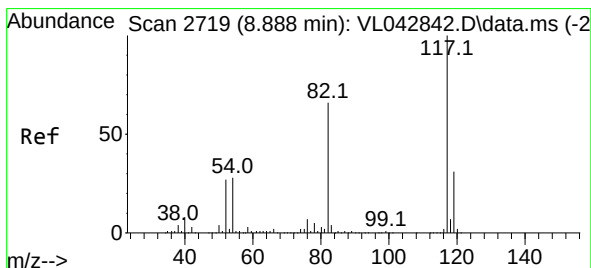
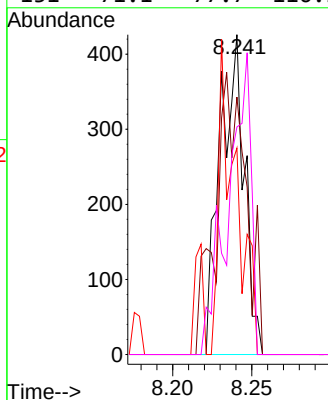
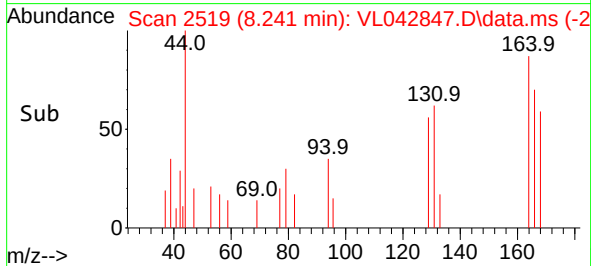
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03



Tgt Ion:164 Resp: 458  
Ion Ratio Lower Upper  
164 100  
166 80.5 96.5 144.7  
129 64.6 81.8 122.6  
131 71.1 77.7 116.5#

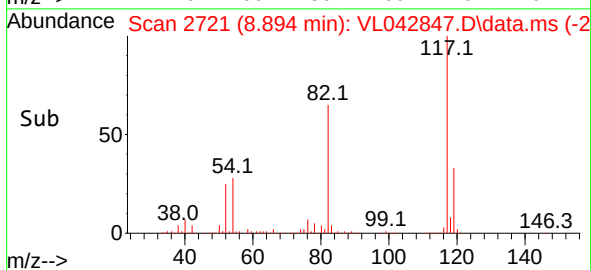
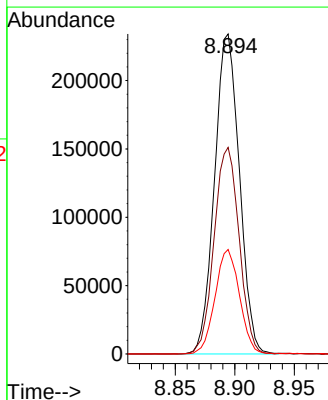
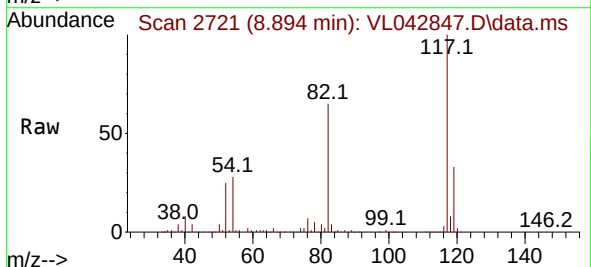
Manual Integrations  
APPROVED

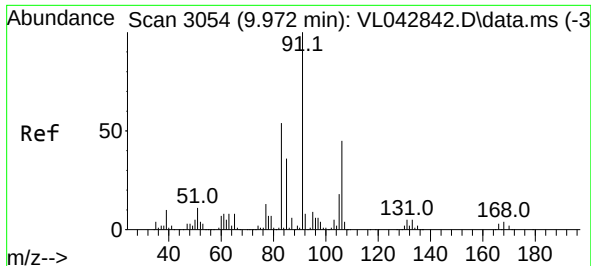
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.894 min Scan# 2721  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

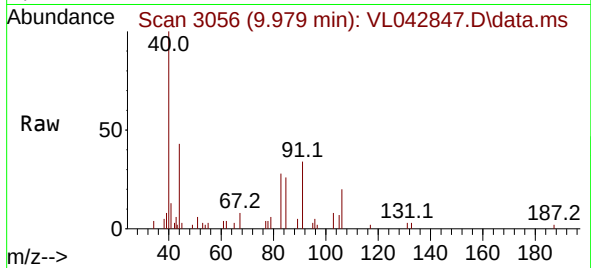
Tgt Ion:117 Resp: 339700  
Ion Ratio Lower Upper  
117 100  
82 65.1 54.6 81.8  
119 32.2 25.9 38.9





#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.035 ppbv m  
RT: 9.979 min Scan# 3054  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

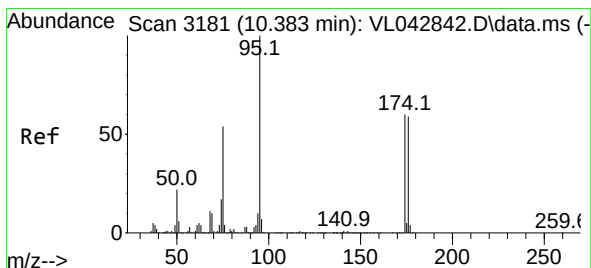
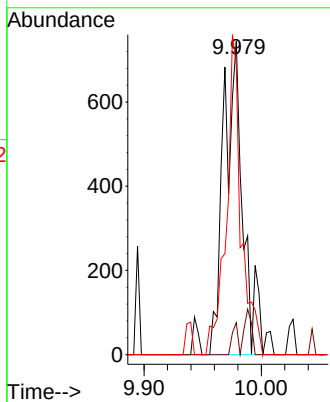
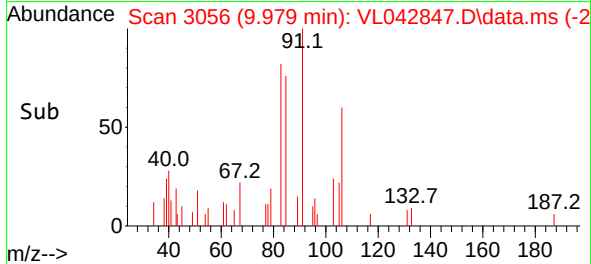
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03



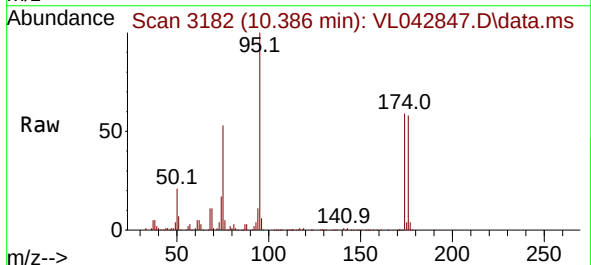
Tgt Ion: 83 Resp: 898  
Ion Ratio Lower Upper  
83 100  
131 0.0 4.8 14.3  
85 77.5 32.3 96.8

Manual Integrations  
APPROVED

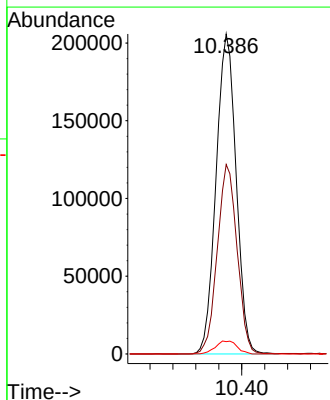
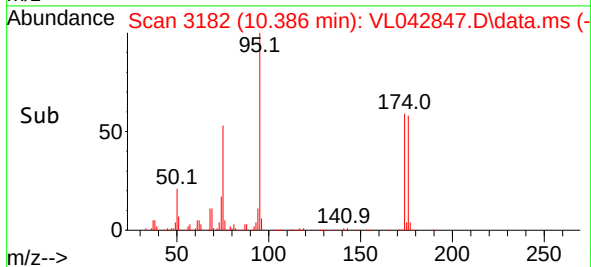
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.816 ppbv  
RT: 10.386 min Scan# 3182  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30



Tgt Ion: 95 Resp: 250082  
Ion Ratio Lower Upper  
95 100  
174 58.5 48.4 72.6  
175 4.4 3.8 5.8



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042848.D  
 Acq On : 13 Aug 2025 12:06  
 Operator : SY/MD  
 Sample : VSTDICC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC015

Quant Time: Aug 14 01:51:12 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 01:51:12 2025

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025  
 Supervised By : Mahesh Dadoda 08/18/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.794  | 49    | 122073   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.965  | 114   | 380877   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.892  | 117   | 337876   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.384 | 95    | 254655   | 10.050   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 100.500% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 253151   | 14.150   | ppbv  | 99       |
| 3) Chlorodifluoromethane      | 1.480  | 51    | 275350   | 13.910   | ppbv  | 99       |
| 4) Chloromethane              | 1.535  | 50    | 100974   | 13.986   | ppbv  | 99       |
| 5) Vinyl Chloride             | 1.583  | 62    | 92812    | 13.053   | ppbv  | 100      |
| 6) Bromomethane               | 1.671  | 94    | 37740    | 13.275   | ppbv  | 96       |
| 7) Chloroethane               | 1.706  | 64    | 38398    | 13.828   | ppbv  | 97       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 205386   | 14.029   | ppbv  | 98       |
| 9) Propene                    | 1.486  | 41    | 111824   | 13.094   | ppbv  | 99       |
| 10) Heptane                   | 4.988  | 43    | 313734   | 13.742   | ppbv  | 99       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 246354   | 13.957   | ppbv  | 100      |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 195231   | 13.877   | ppbv  | 99       |
| 13) Ethanol                   | 1.722  | 45    | 8534     | 10.086   | ppbv  | 98       |
| 14) Bromoethene               | 1.784  | 108   | 71671    | 14.072   | ppbv  | 99       |
| 15) Acetone                   | 1.839  | 43    | 184116   | 11.402   | ppbv  | 100      |
| 16) 1,3-Butadiene             | 1.612  | 39    | 92068    | 12.577   | ppbv  | 100      |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 244441   | 12.765   | ppbv  | 100      |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 86349    | 13.961   | ppbv  | 97       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 124270   | 12.885   | ppbv  | 99       |
| 20) Methylene Chloride        | 2.065  | 84    | 77749    | 11.494   | ppbv  | 97       |
| 21) Allyl Chloride            | 2.101  | 41    | 156318   | 13.703   | ppbv  | 95       |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96    | 100064   | 14.465   | ppbv  | 95       |
| 23) Vinyl Acetate             | 2.467  | 43    | 309236   | 14.557   | ppbv  | 98       |
| 24) 1,1-Dichloroethane        | 2.412  | 63    | 199276   | 13.944   | ppbv  | 98       |
| 25) Ethyl Acetate             | 2.839  | 43    | 533600   | 13.653   | ppbv  | 99       |
| 26) Hexane                    | 2.833  | 57    | 250189   | 13.869   | ppbv  | 98       |
| 27) Carbon Disulfide          | 2.153  | 76    | 246868   | 14.062   | ppbv  | 99       |
| 28) Methyl tert-Butyl Ether   | 2.444  | 73    | 129978   | 14.131   | ppbv  | 91       |
| 29) Chloroform                | 2.855  | 83    | 360661   | 14.003   | ppbv  | 99       |
| 30) Cyclohexane               | 3.865  | 84    | 222820   | 14.088   | ppbv  | 98       |
| 31) cis-1,2-Dichloroethene    | 2.726  | 61    | 249376   | 13.821   | ppbv  | 96       |
| 32) 1,1,1-Trichloroethane     | 3.376  | 97    | 377739   | 13.851   | ppbv  | 100      |
| 34) 2-Butanone                | 2.561  | 43    | 348815   | 13.563   | ppbv  | 99       |
| 35) Carbon Tetrachloride      | 3.771  | 117   | 367354   | 13.990   | ppbv  | 97       |
| 36) Benzene                   | 3.664  | 78    | 511811   | 14.033   | ppbv  | 99       |
| 37) 1,2-Dichloroethane        | 3.224  | 62    | 278934   | 14.639   | ppbv  | 99       |
| 38) Trichloroethene           | 4.558  | 130   | 227091   | 13.634   | ppbv  | 96       |
| 39) 1,2-Dichloropropane       | 4.325  | 63    | 186277   | 13.984   | ppbv  | 95       |
| 40) 1,4-Dioxane               | 4.593  | 88    | 82385    | 13.212   | ppbv  | # 91     |
| 41) Tetrahydrofuran           | 3.056  | 42    | 200751   | 14.001   | ppbv  | 99       |
| 42) Bromodichloromethane      | 4.499  | 83    | 408089   | 14.372   | ppbv  | 97       |
| 43) Methyl Methacrylate       | 4.888  | 69    | 206590   | 13.808   | ppbv  | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.652  | 57    | 850847   | 13.895   | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 6.428  | 75    | 244117   | 14.387   | ppbv  | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042848.D  
 Acq On : 13 Aug 2025 12:06  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Aug 14 01:51:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 2025  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

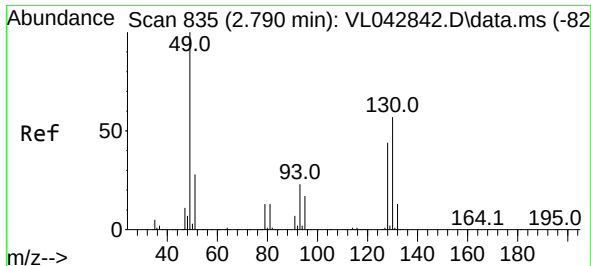
Reviewed By : Semsettin Yesilyurt 08/14/2025  
 Supervised By : Mahesh Dadoda 08/18/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| 46) cis-1,3-Dichloropropene   | 5.616  | 75   | 302339   | 14.191 | ppbv  | 98       |
| 47) 1,1,2-Trichloroethane     | 6.597  | 97   | 199067   | 14.118 | ppbv  | 98       |
| 48) Dibromochloromethane      | 7.399  | 129  | 331947   | 14.535 | ppbv  | 99       |
| 49) Bromoform                 | 9.494  | 173  | 266732   | 14.162 | ppbv  | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 490917   | 14.073 | ppbv  | 100      |
| 51) 2-Hexanone                | 7.448  | 43   | 389940   | 14.255 | ppbv  | 100      |
| 52) Tetrachloroethene         | 8.238  | 164  | 168712   | 12.772 | ppbv  | 98       |
| 53) Toluene                   | 6.943  | 91   | 605941   | 13.961 | ppbv  | 100      |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 292327   | 14.173 | ppbv  | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.934  | 131  | 241293   | 13.810 | ppbv  | 99       |
| 57) Chlorobenzene             | 8.934  | 112  | 439109   | 13.668 | ppbv  | 99       |
| 58) Ethyl Benzene             | 9.364  | 91   | 826316   | 13.859 | ppbv  | 99       |
| 59) m/p-Xylene                | 9.561  | 91   | 1294381m | 27.650 | ppbv  |          |
| 60) o-Xylene                  | 9.973  | 91   | 629445   | 13.389 | ppbv  | 100      |
| 61) Styrene                   | 9.882  | 104  | 304560   | 13.827 | ppbv  | 99       |
| 62) Isopropylbenzene          | 10.549 | 105  | 931574   | 13.559 | ppbv  | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.973  | 83   | 342890   | 13.356 | ppbv  | 98       |
| 64) n-propylbenzene           | 10.999 | 120  | 239209   | 13.646 | ppbv  | 98       |
| 65) tert-Butylbenzene         | 11.539 | 119  | 785250   | 12.965 | ppbv  | 98       |
| 66) Benzyl Chloride           | 11.623 | 91   | 104698   | 13.617 | ppbv  | 99       |
| 67) sec-Butylbenzene          | 11.775 | 105  | 1115979  | 13.127 | ppbv  | 100      |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 940888   | 12.891 | ppbv  | 98       |
| 70) n-Butylbenzene            | 12.287 | 91   | 970700   | 13.410 | ppbv  | 100      |
| 71) 2-Chlorotoluene           | 10.911 | 91   | 713696   | 13.378 | ppbv  | 99       |
| 72) 4-Ethyltoluene            | 11.134 | 105  | 782057   | 13.722 | ppbv  | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 650280   | 13.418 | ppbv  | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.546 | 105  | 691709   | 13.003 | ppbv  | 95       |
| 75) 1,3-Dichlorobenzene       | 11.617 | 146  | 402850   | 13.321 | ppbv  | 99       |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 407214   | 13.314 | ppbv  | 98       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 385866   | 13.031 | ppbv  | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 281581   | 11.602 | ppbv  | 99       |
| 79) Naphthalene               | 13.517 | 128  | 658732   | 13.837 | ppbv  | 100      |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 251753   | 14.042 | ppbv  | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 329641   | 13.599 | ppbv  | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

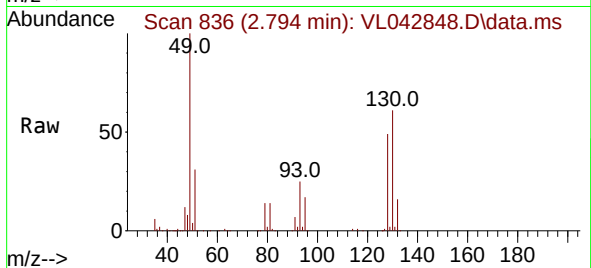






#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.794 min Scan# 835  
Delta R.T. 0.004 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

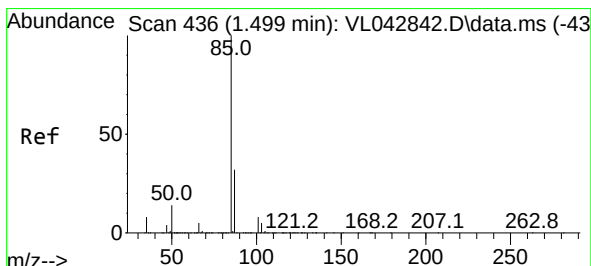
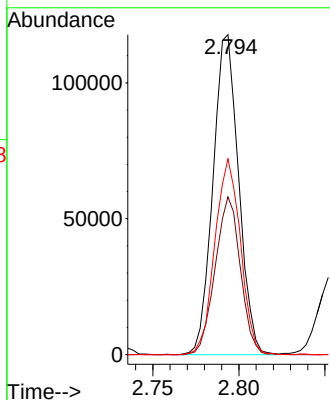
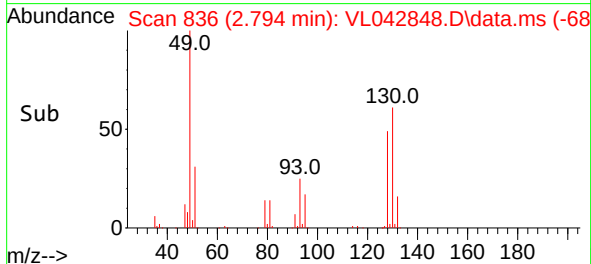
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



Tgt Ion: 49 Resp: 122073  
Ion Ratio Lower Upper  
49 100  
128 48.4 23.7 71.1  
130 61.2 30.6 91.6

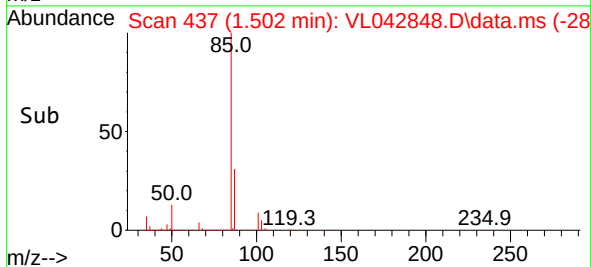
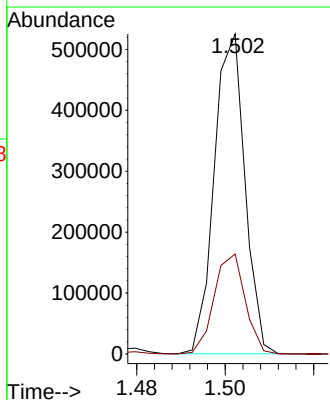
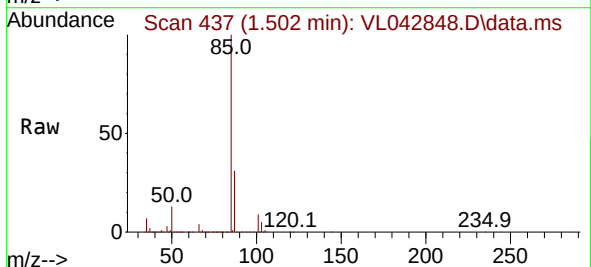
Manual Integrations  
APPROVED

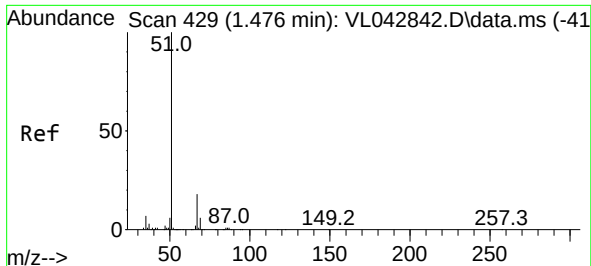
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#2  
Dichlorodifluoromethane  
Concen: 14.150 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 253151  
Ion Ratio Lower Upper  
85 100  
87 31.2 25.3 37.9





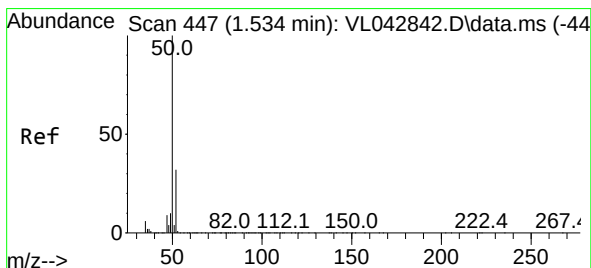
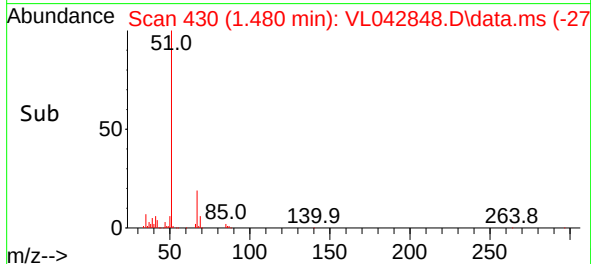
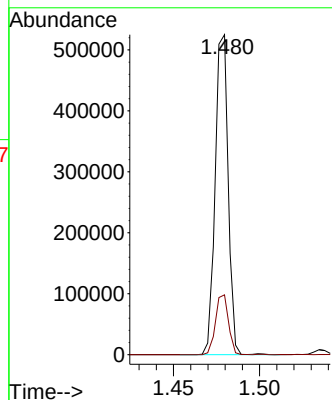
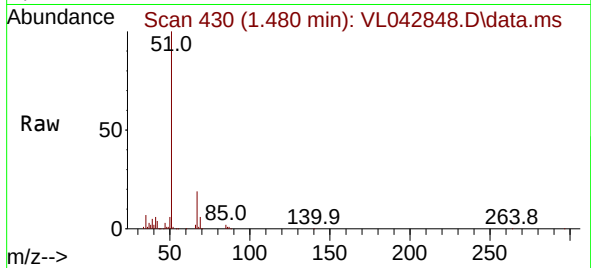
#3  
Chlorodifluoromethane  
Concen: 13.910 ppbv  
RT: 1.480 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 51 Resp: 275350  
Ion Ratio Lower Upper  
51 100  
67 18.9 14.9 22.3

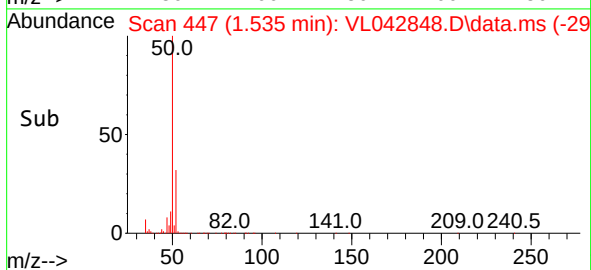
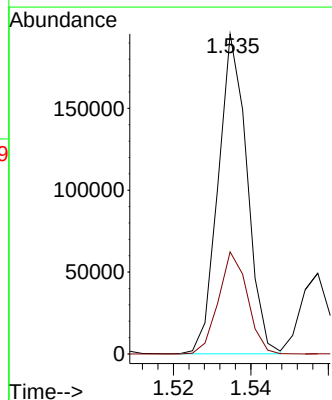
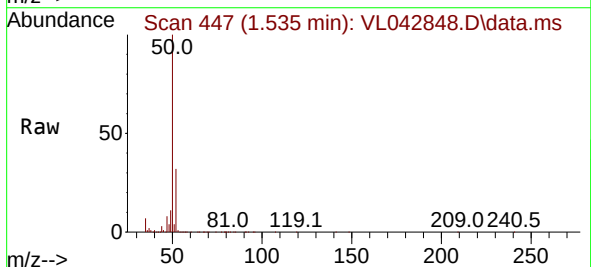
Manual Integrations  
APPROVED

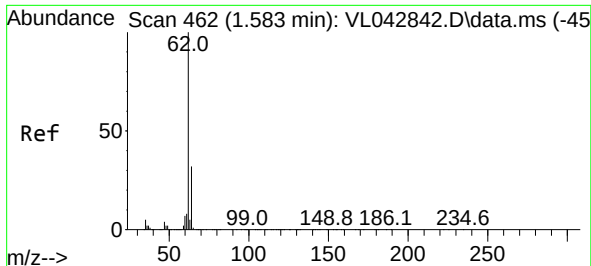
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#4  
Chloromethane  
Concen: 13.986 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 50 Resp: 100974  
Ion Ratio Lower Upper  
50 100  
52 31.9 25.9 38.9





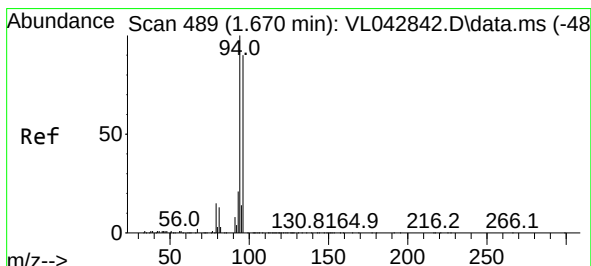
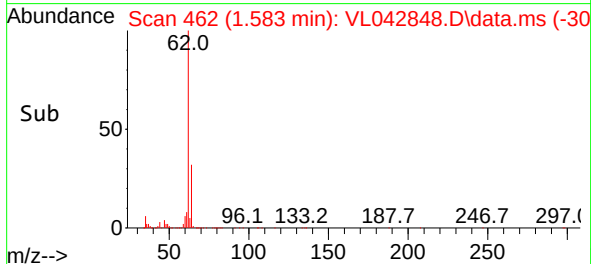
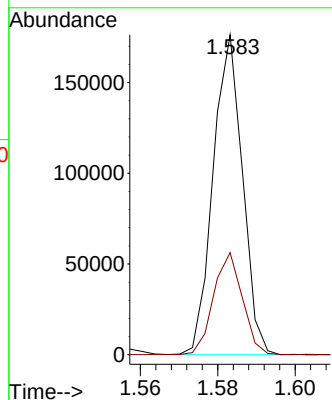
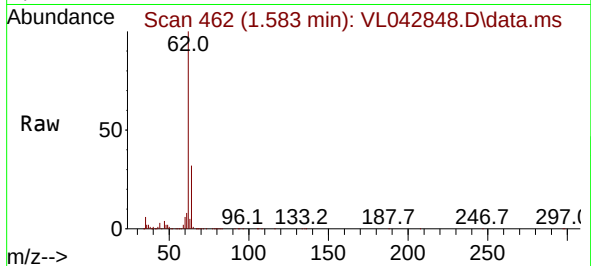
#5  
 Vinyl Chloride  
 Concen: 13.053 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Tgt Ion: 62 Resp: 92812  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 25.4 38.2

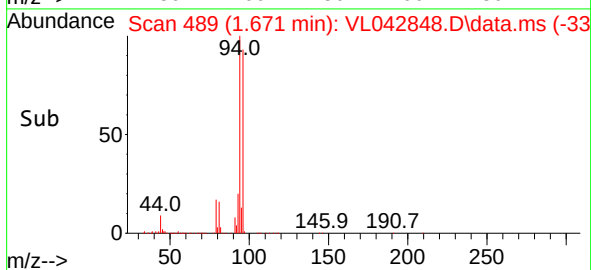
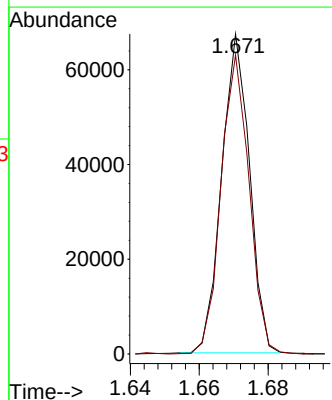
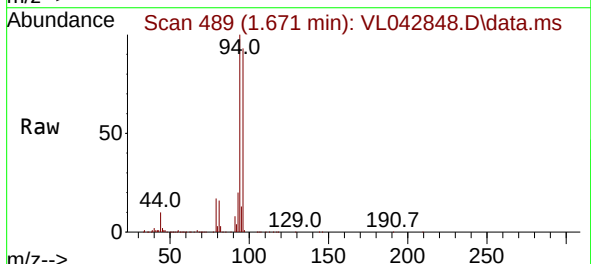
Manual Integrations  
 APPROVED

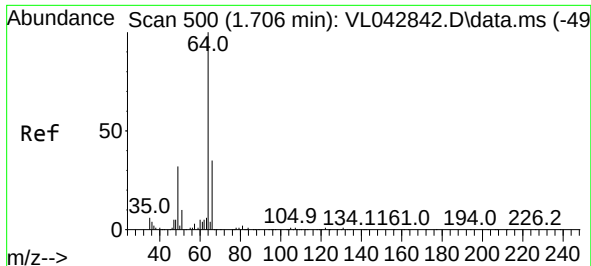
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



#6  
 Bromomethane  
 Concen: 13.275 ppbv  
 RT: 1.671 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

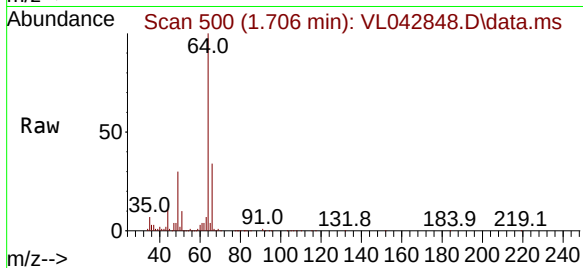
Tgt Ion: 94 Resp: 37740  
 Ion Ratio Lower Upper  
 94 100  
 96 93.7 72.1 108.1





#7  
Chloroethane  
Concen: 13.828 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

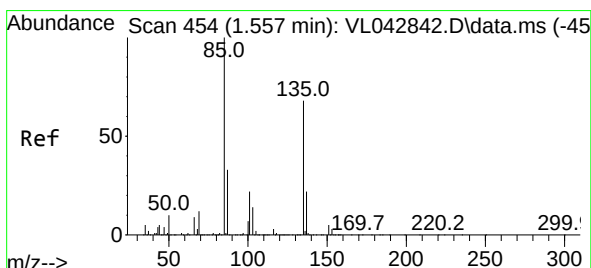
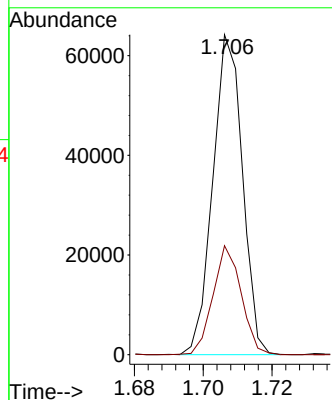
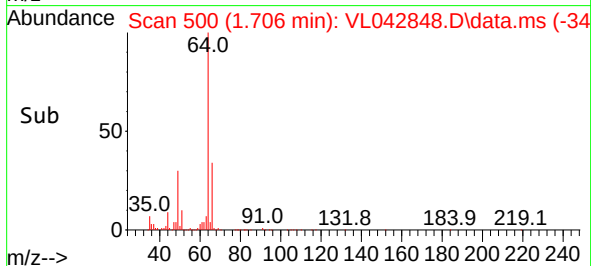
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



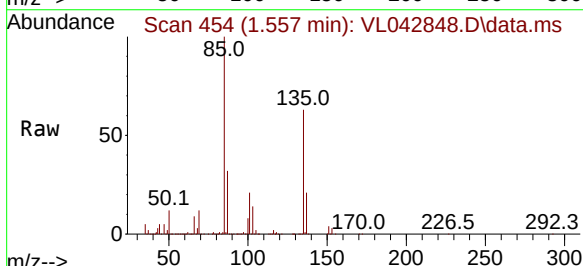
Tgt Ion: 64 Resp: 38398  
Ion Ratio Lower Upper  
64 100  
66 34.1 28.6 42.8

Manual Integrations  
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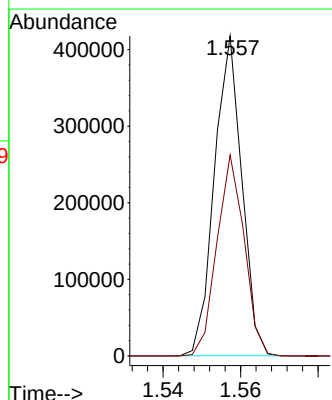
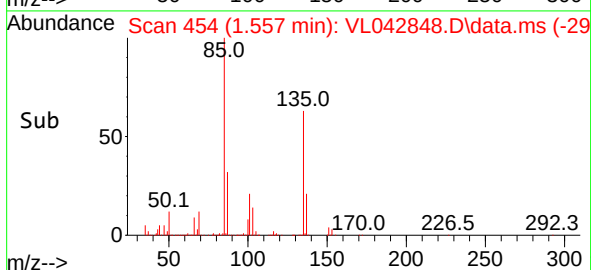
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

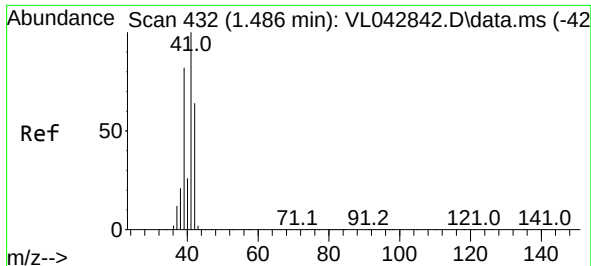


#8  
Dichlorotetrafluoroethane  
Concen: 14.029 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



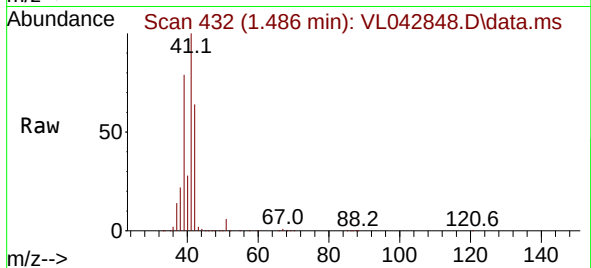
Tgt Ion: 85 Resp: 205386  
Ion Ratio Lower Upper  
85 100  
135 62.7 51.2 76.8





#9  
Propene  
Concen: 13.094 ppbv  
RT: 1.486 min Scan# 411  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

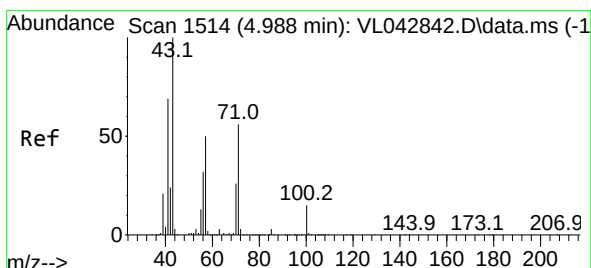
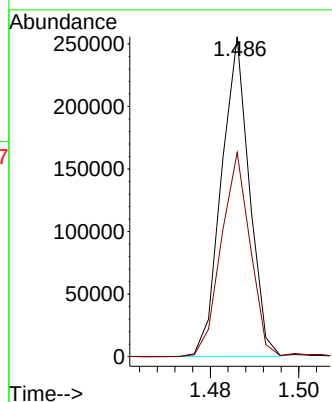
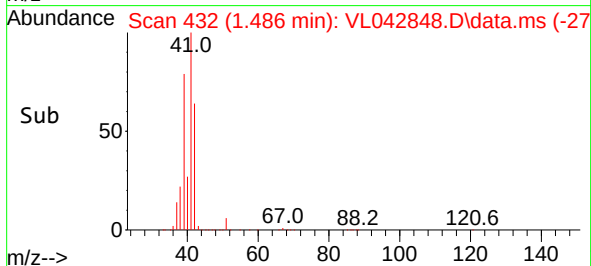
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MSVOA\_L  
ClientSampleId :  
VSTDICC015



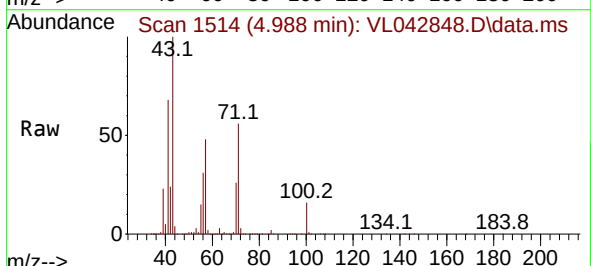
Tgt Ion: 41 Resp: 111824  
Ion Ratio Lower Upper  
41 100  
42 67.0 53.0 79.4

Manual Integrations  
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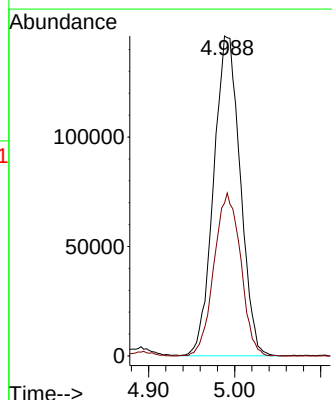
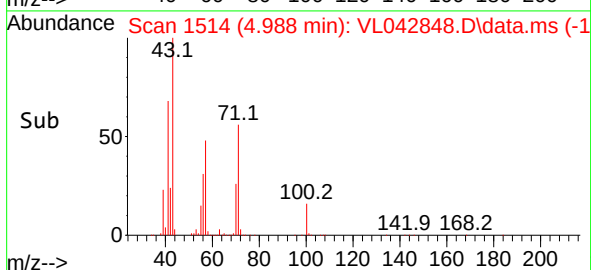
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

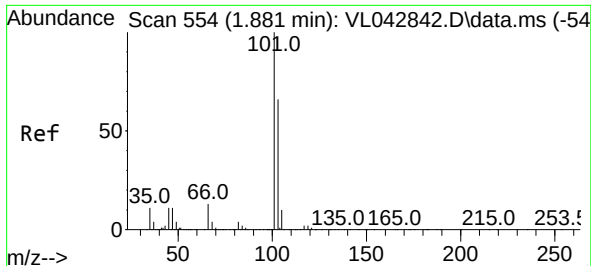


#10  
Heptane  
Concen: 13.742 ppbv  
RT: 4.988 min Scan# 1514  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



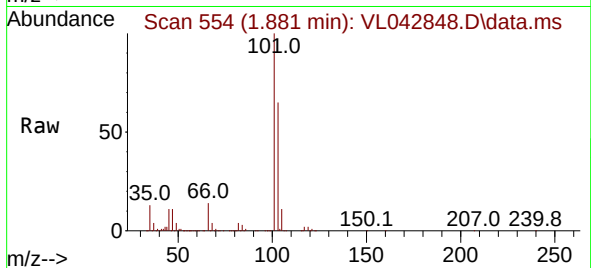
Tgt Ion: 43 Resp: 313734  
Ion Ratio Lower Upper  
43 100  
57 51.0 41.4 62.0





#11  
Trichlorofluoromethane  
Concen: 13.957 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

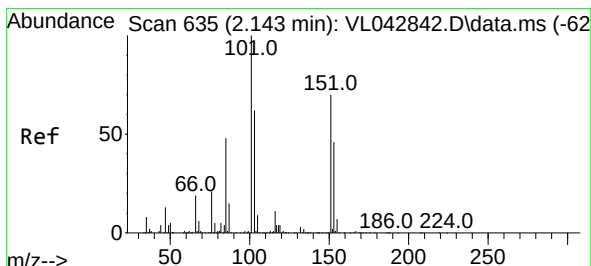
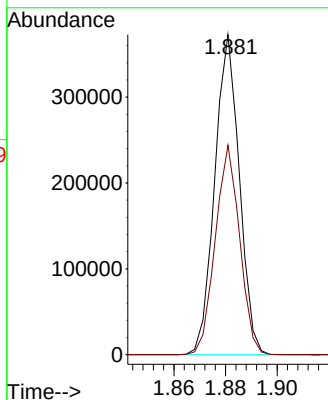
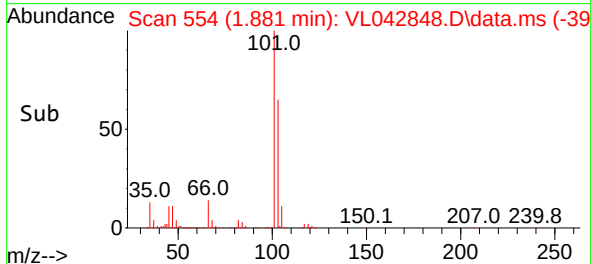
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



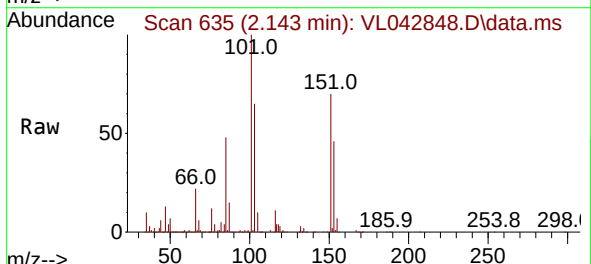
Tgt Ion:101 Resp: 246354  
Ion Ratio Lower Upper  
101 100  
103 65.5 52.5 78.7

Manual Integrations  
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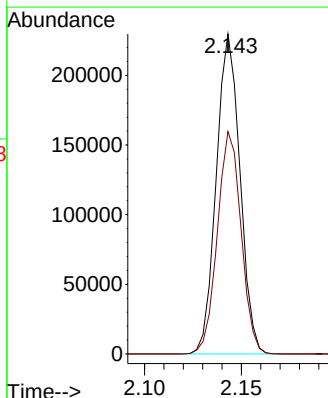
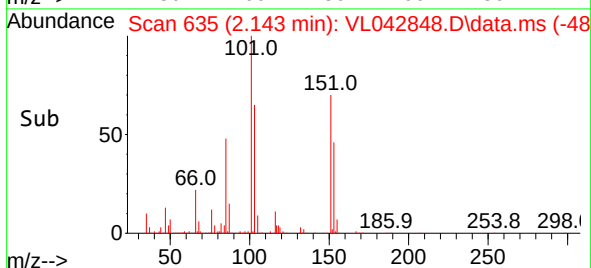
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

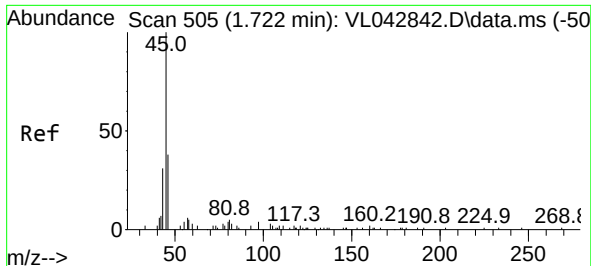


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 13.877 ppbv  
RT: 2.143 min Scan# 635  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



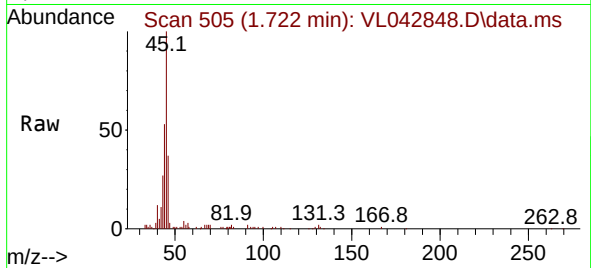
Tgt Ion:101 Resp: 195231  
Ion Ratio Lower Upper  
101 100  
151 69.7 56.4 84.6





#13  
Ethanol  
Concen: 10.086 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

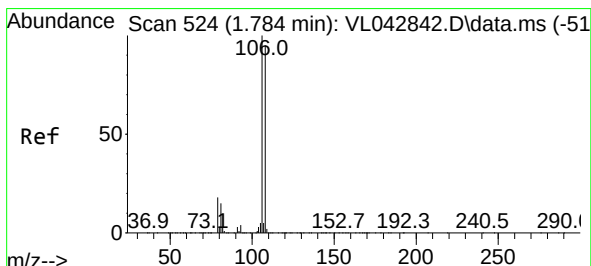
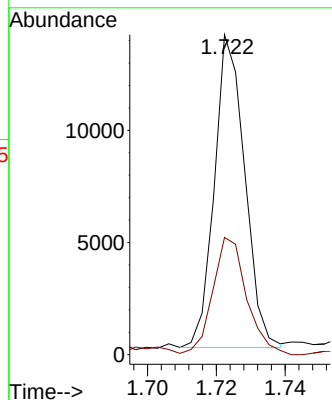
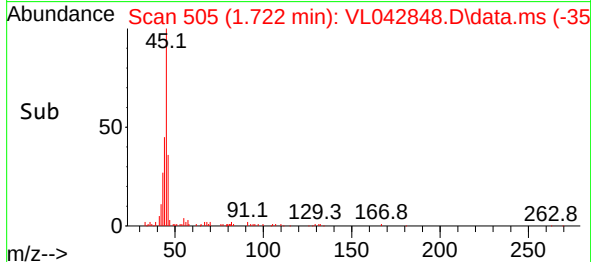
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ClientSampleId :  
VSTDIC015



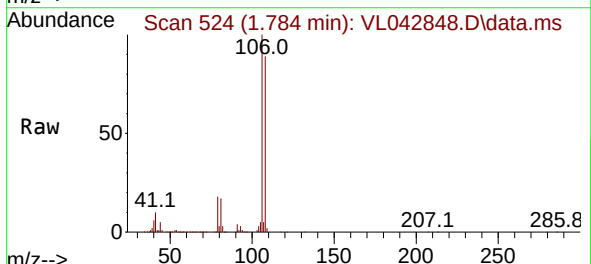
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Ion Ratio Lower Upper  
45 100  
46 42.3 17.5 69.9

Manual Integrations  
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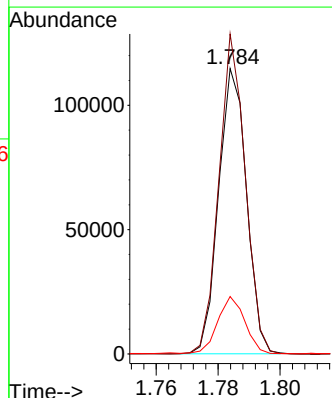
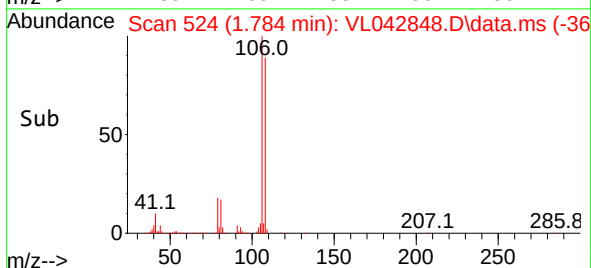
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

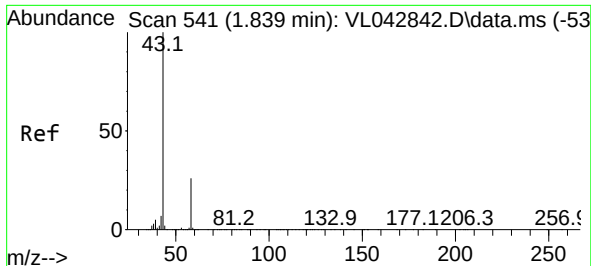


#14  
Bromoethene  
Concen: 14.072 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



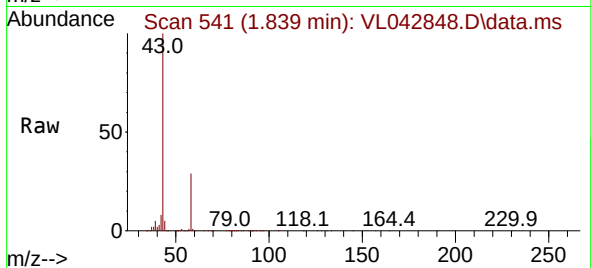
Tgt Ion:108 Resp: 71671  
Ion Ratio Lower Upper  
108 100  
106 106.0 85.1 127.7  
79 19.4 16.3 24.5





#15  
Acetone  
Concen: 11.402 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

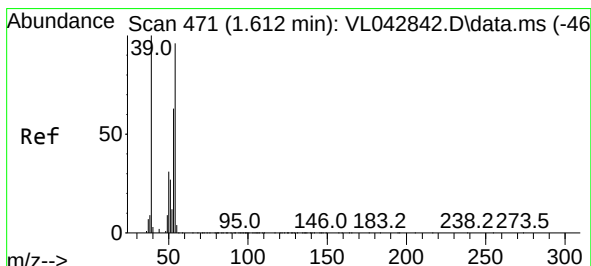
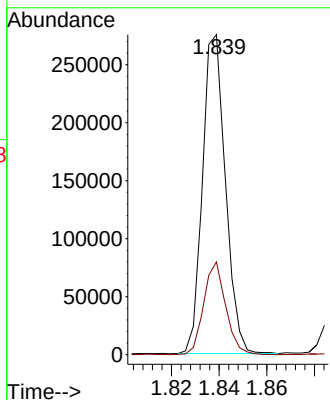
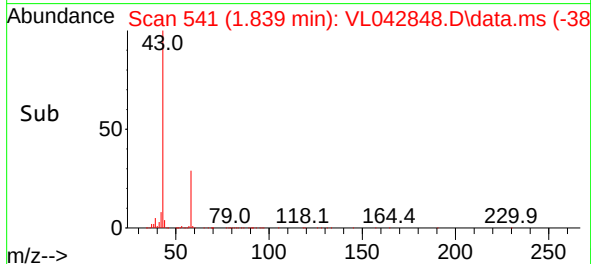
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



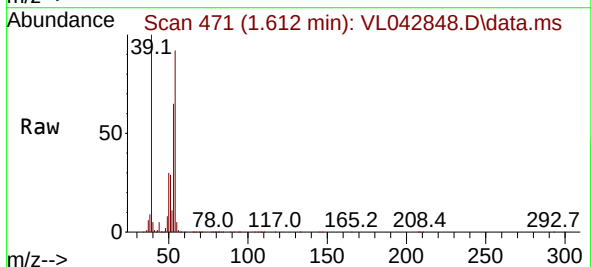
Tgt Ion: 43 Resp: 184110  
Ion Ratio Lower Upper  
43 100  
58 27.9 22.4 33.6

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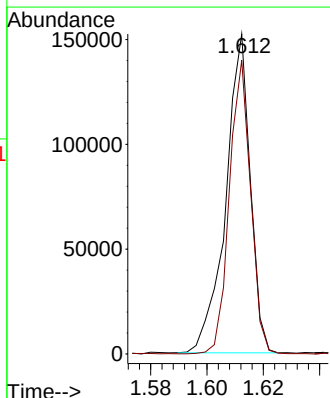
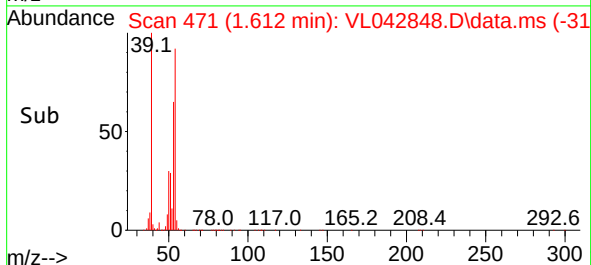
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



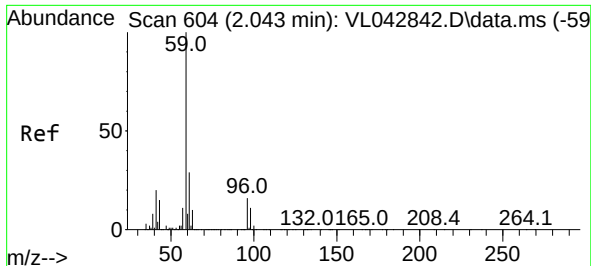
#16  
1,3-Butadiene  
Concen: 12.577 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



Tgt Ion: 39 Resp: 92068  
Ion Ratio Lower Upper  
39 100  
54 79.7 63.6 95.4







#17

tert-Butyl alcohol

Concen: 12.765 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC015

Tgt Ion: 59 Resp: 24444

Ion Ratio Lower Upper

59 100

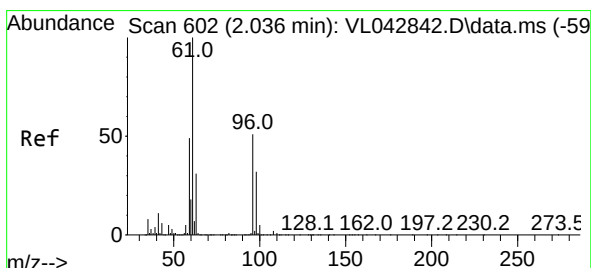
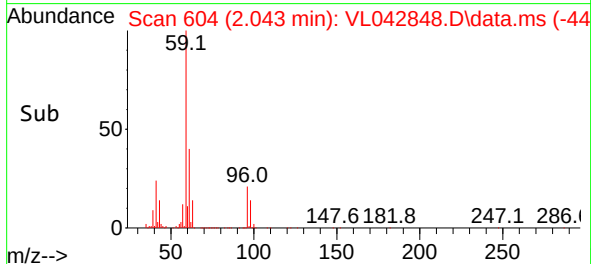
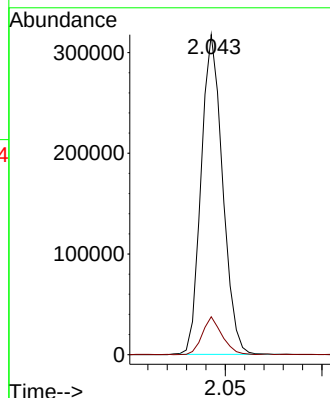
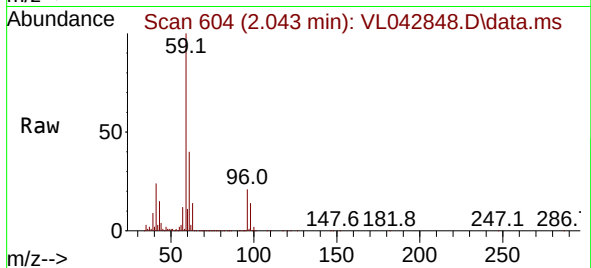
57 11.3 9.0 13.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#18

1,1-Dichloroethene

Concen: 13.961 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

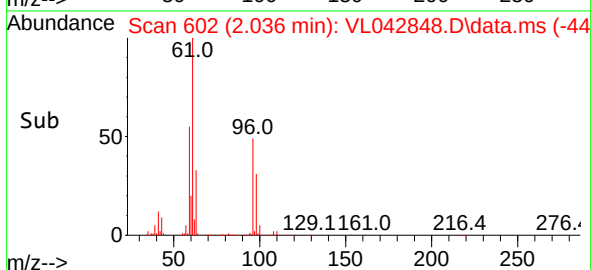
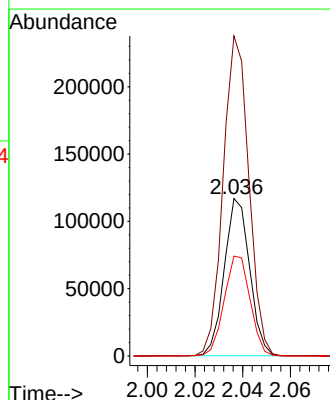
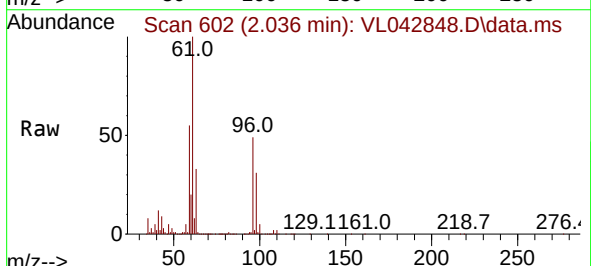
Tgt Ion: 96 Resp: 86349

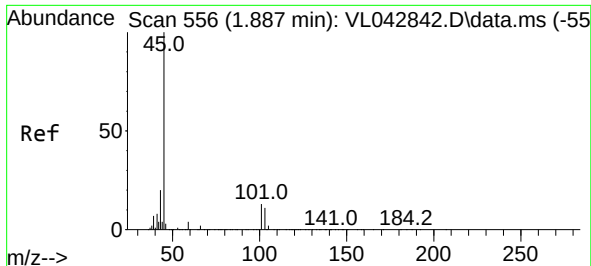
Ion Ratio Lower Upper

96 100

61 203.3 158.2 237.4

98 63.3 50.6 76.0





#19  
Isopropyl Alcohol  
Concen: 12.885 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

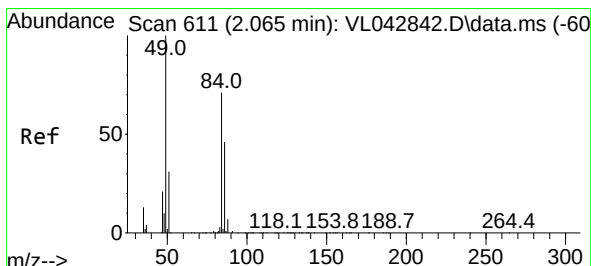
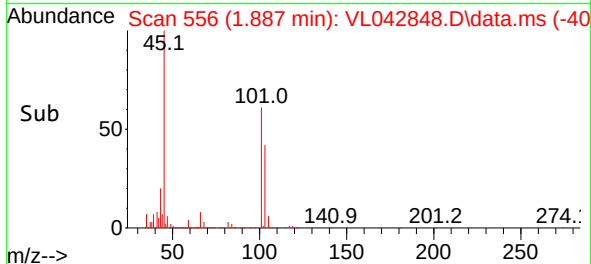
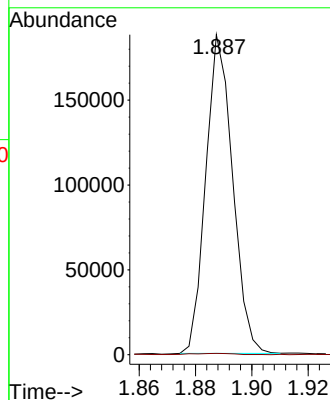
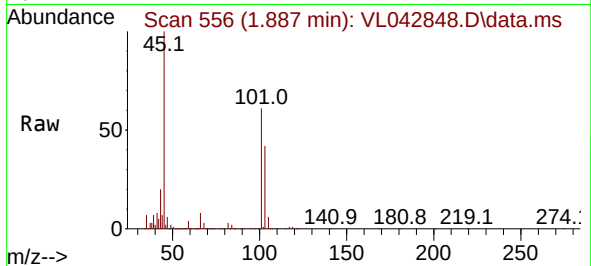
ClientSampleId :

VSTDICC015

Tgt Ion: 45 Resp: 124270  
Ion Ratio Lower Upper  
45 100  
58 41.3 32.7 49.1

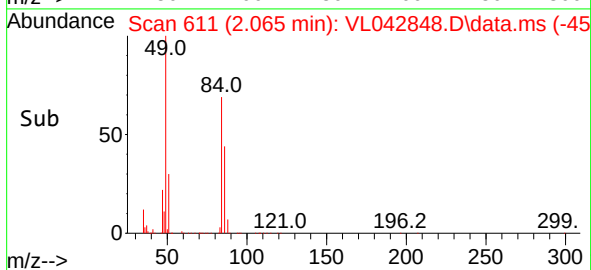
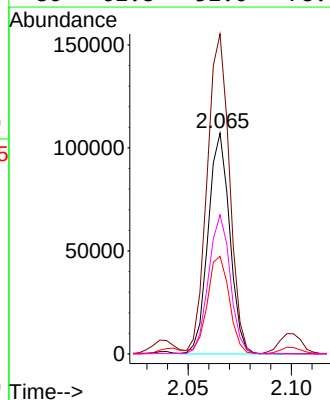
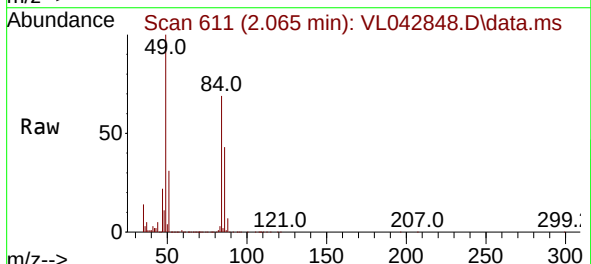
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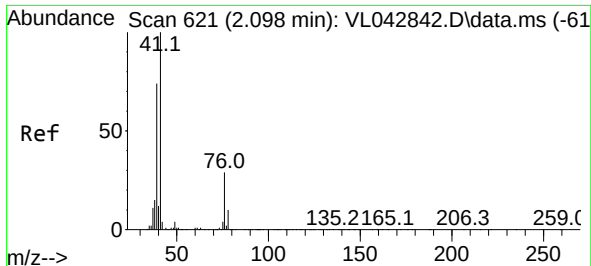
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#20  
Methylene Chloride  
Concen: 11.494 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 84 Resp: 77749  
Ion Ratio Lower Upper  
84 100  
49 143.1 112.3 168.5  
51 42.5 36.0 54.0  
86 62.8 52.0 78.0





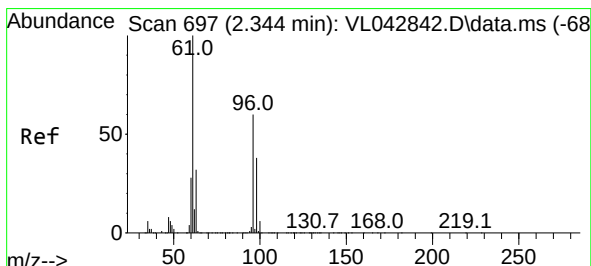
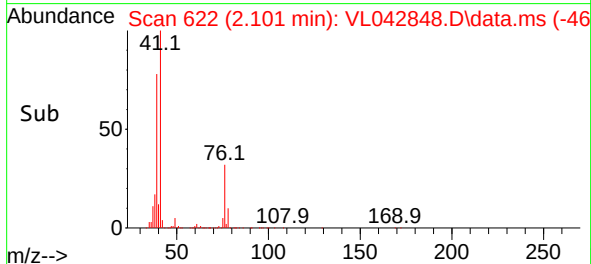
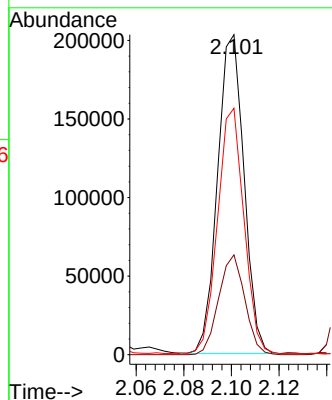
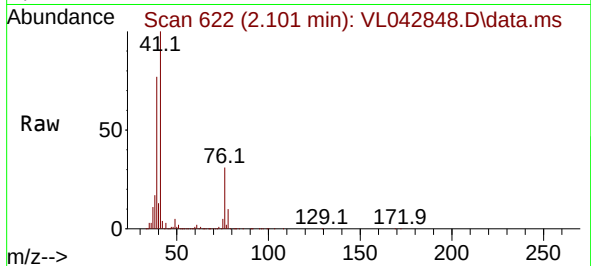
#21  
 Allyl Chloride  
 Concen: 13.703 ppbv  
 RT: 2.101 min Scan# 611  
 Delta R.T. 0.003 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Tgt Ion: 41 Resp: 156318  
 Ion Ratio Lower Upper  
 41 100  
 76 30.9 23.9 35.9  
 39 76.9 57.8 86.6

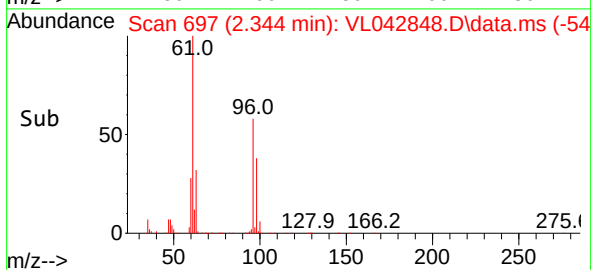
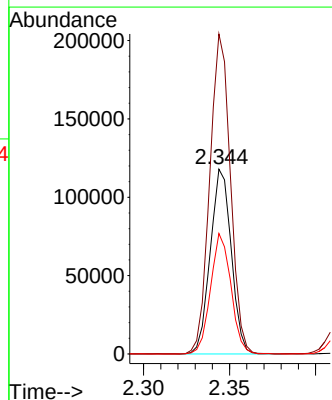
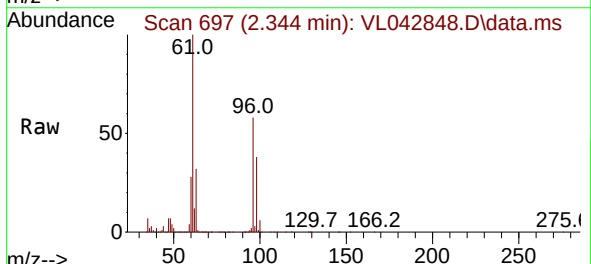
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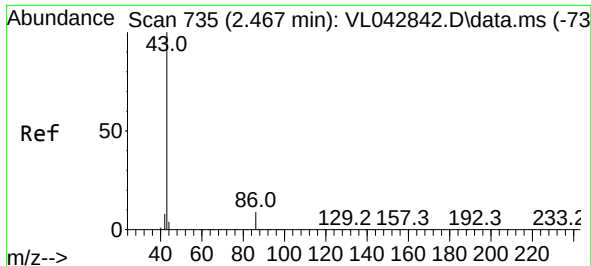
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



#22  
 trans-1,2-Dichloroethene  
 Concen: 14.465 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

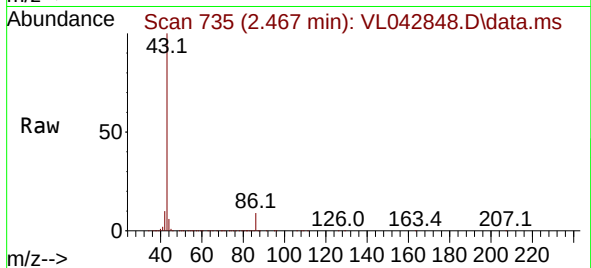
Tgt Ion: 96 Resp: 100064  
 Ion Ratio Lower Upper  
 96 100  
 61 173.1 132.6 199.0  
 98 65.2 50.0 75.0





#23  
 Vinyl Acetate  
 Concen: 14.557 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

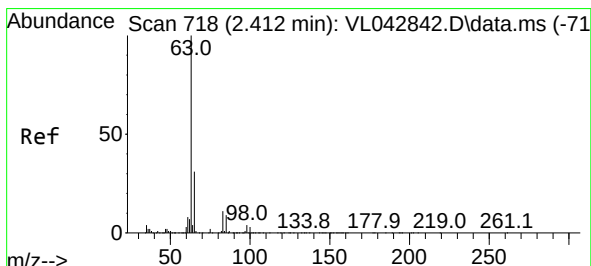
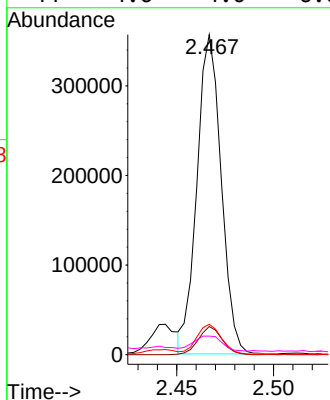
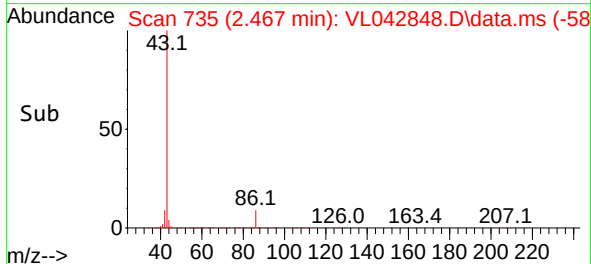
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015



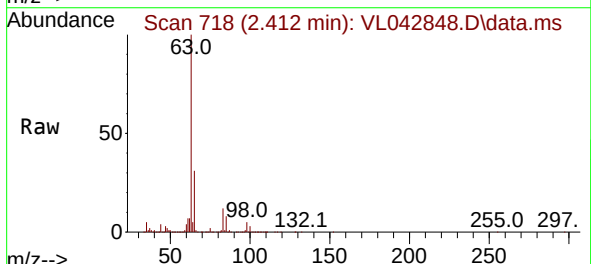
| Tgt Ion:  | 43  | Resp: | 309230 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 43        | 100 |       |        |
| 86        | 8.8 | 6.6   | 9.8    |
| 42        | 9.4 | 7.0   | 10.6   |
| 44        | 4.6 | 4.0   | 6.0    |

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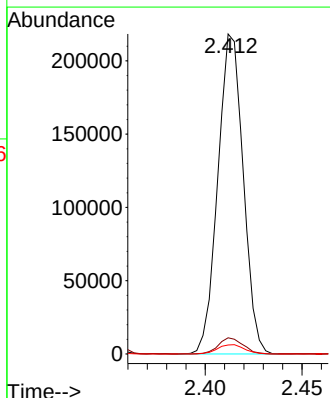
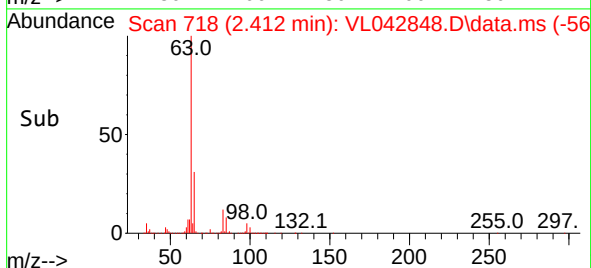
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

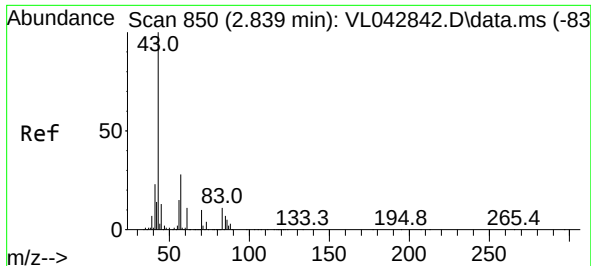


#24  
 1,1-Dichloroethane  
 Concen: 13.944 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06



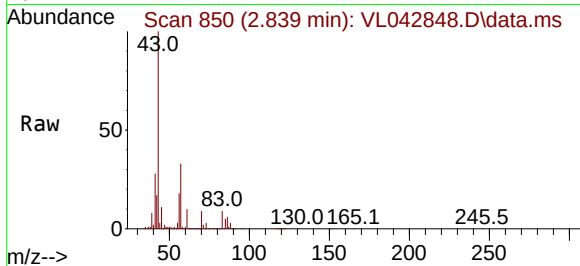
| Tgt Ion:  | 63  | Resp: | 199276 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 63        | 100 |       |        |
| 98        | 5.1 | 2.1   | 6.5    |
| 100       | 2.8 | 1.7   | 5.1    |





#25  
Ethyl Acetate  
Concen: 13.653 ppbv  
RT: 2.839 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

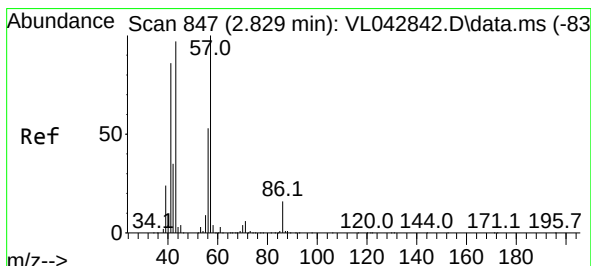
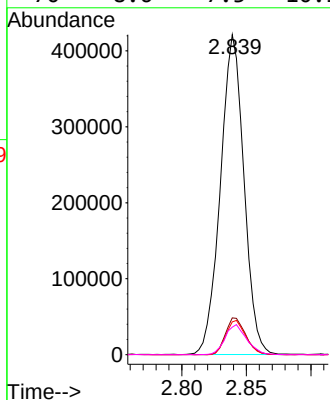
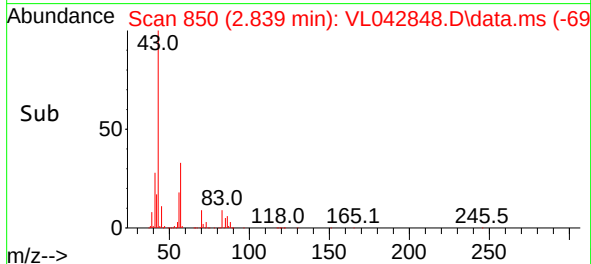
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



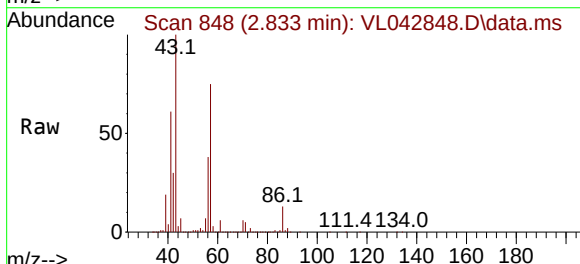
| Tgt Ion: | 43   | Ratio | 100 | Lower | 8.1 | Upper | 12.1 |
|----------|------|-------|-----|-------|-----|-------|------|
| 45       | 10.0 |       |     | 7.4   |     | 11.2  |      |
| 61       | 9.2  |       |     | 7.3   |     | 10.9  |      |
| 70       | 8.6  |       |     |       |     |       |      |

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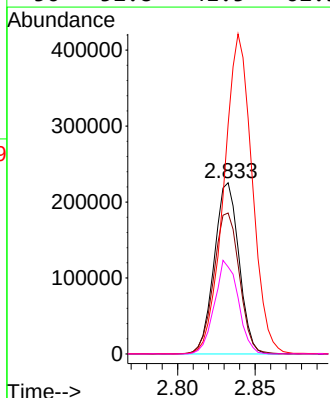
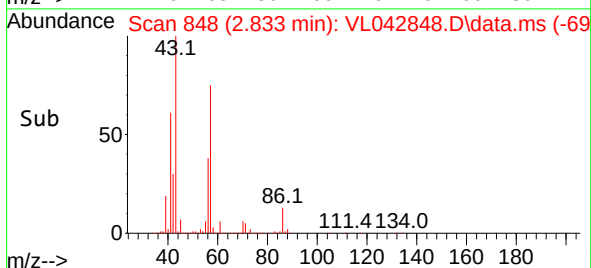
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

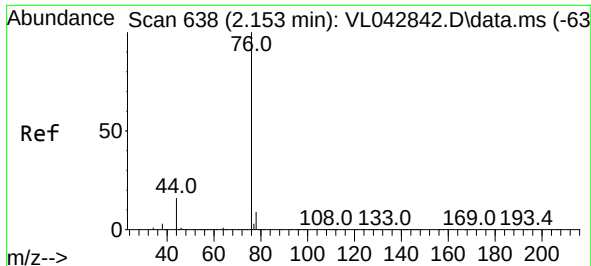


#26  
Hexane  
Concen: 13.869 ppbv  
RT: 2.833 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



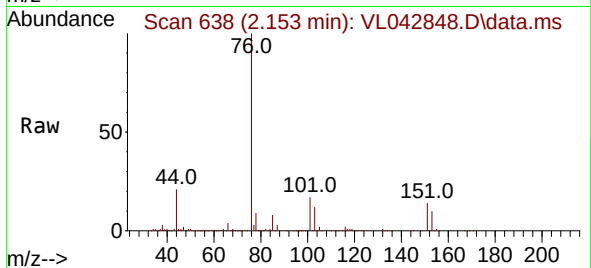
| Tgt Ion: | 57    | Ratio | 100 | Lower | 68.6 | Upper | 103.0 |
|----------|-------|-------|-----|-------|------|-------|-------|
| 41       | 85.8  |       |     | 168.5 |      | 252.7 |       |
| 43       | 214.3 |       |     | 41.5  |      | 62.3  |       |
| 56       | 52.8  |       |     |       |      |       |       |





#27  
Carbon Disulfide  
Concen: 14.062 ppbv  
RT: 2.153 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

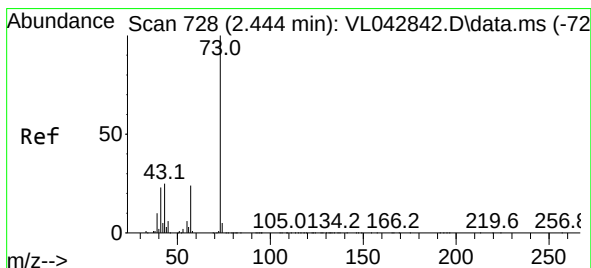
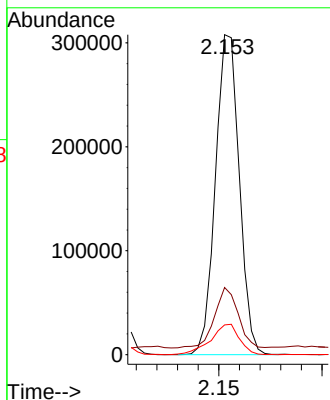
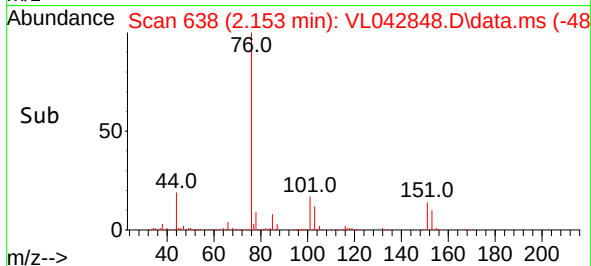
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



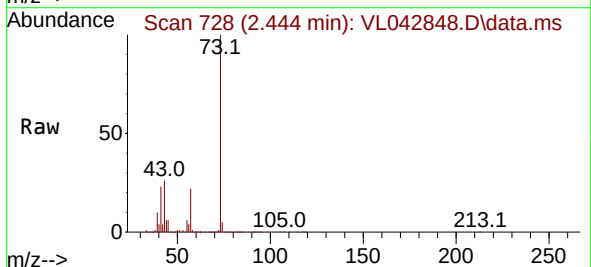
Tgt Ion: 76 Resp: 24686  
Ion Ratio Lower Upper  
76 100  
44 19.7 15.9 23.9  
78 11.4 9.5 14.3

Manual Integrations  
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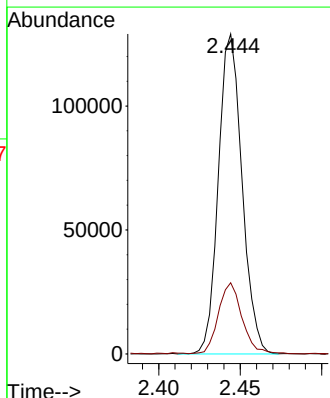
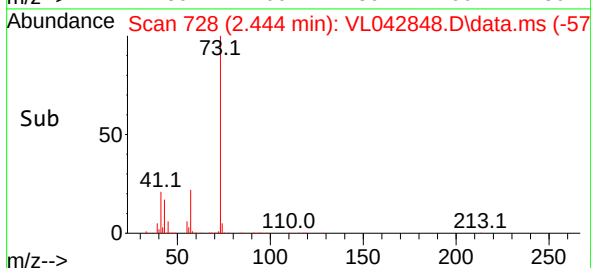
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

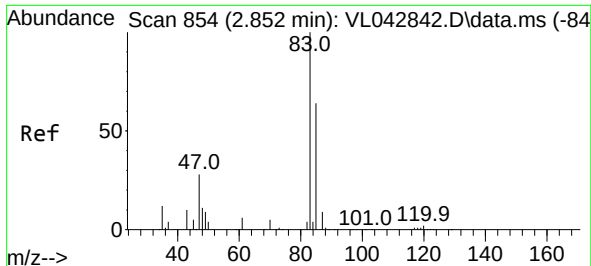


#28  
Methyl tert-Butyl Ether  
Concen: 14.131 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



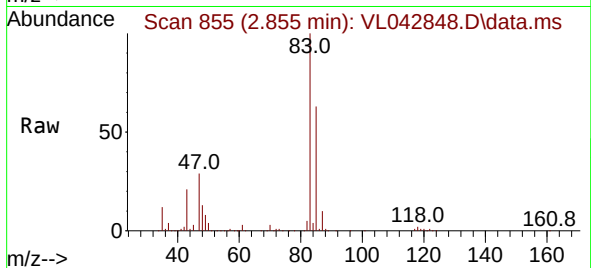
Tgt Ion: 73 Resp: 129978  
Ion Ratio Lower Upper  
73 100  
57 22.5 21.6 32.4





#29  
Chloroform  
Concen: 14.003 ppbv  
RT: 2.855 min Scan# 854  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

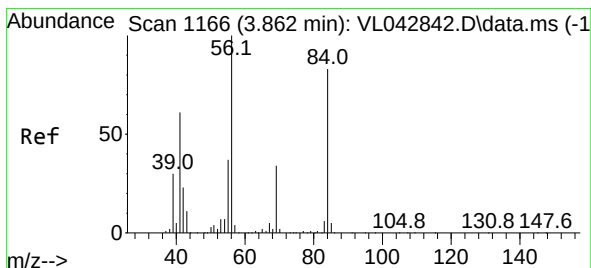
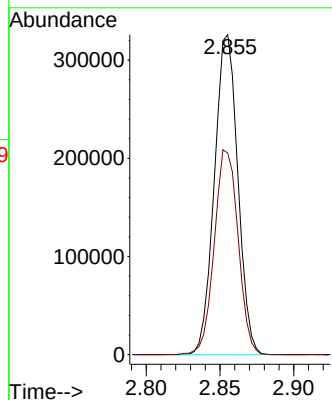
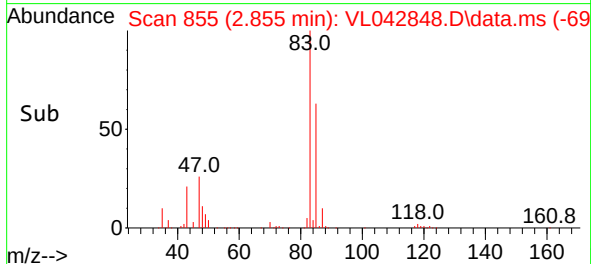
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



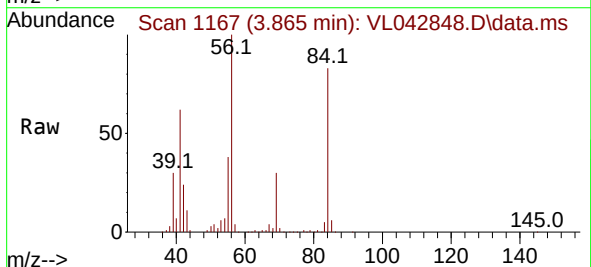
Tgt Ion: 83 Resp: 36066  
Ion Ratio Lower Upper  
83 100  
85 63.0 51.1 76.7

Manual Integrations  
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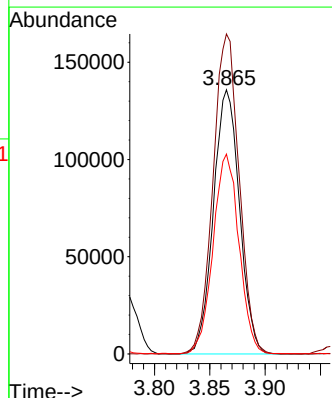
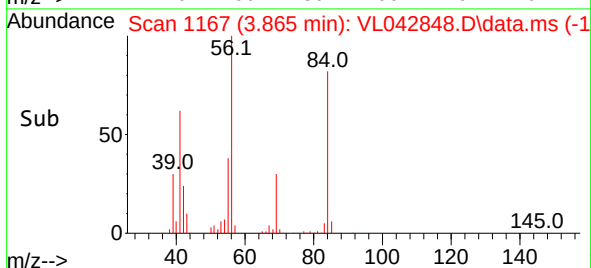
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

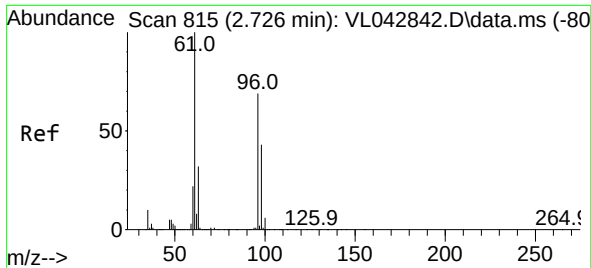


#30  
Cyclohexane  
Concen: 14.088 ppbv  
RT: 3.865 min Scan# 1167  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



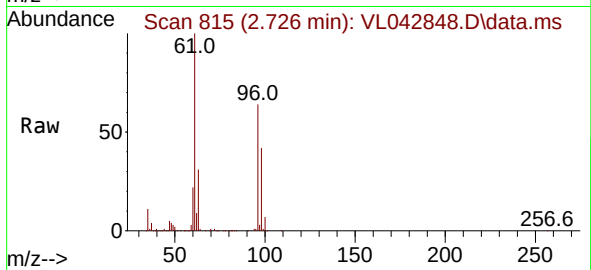
Tgt Ion: 84 Resp: 222820  
Ion Ratio Lower Upper  
84 100  
56 121.5 98.8 148.2  
41 75.1 61.3 91.9





#31  
 cis-1,2-Dichloroethene  
 Concen: 13.821 ppbv  
 RT: 2.726 min Scan# 815  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

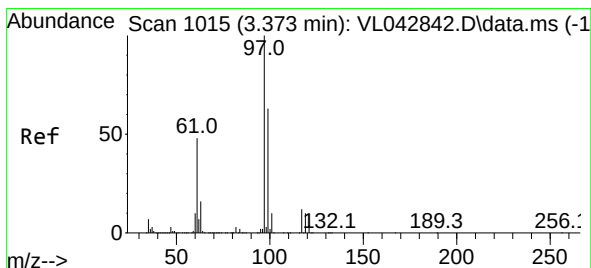
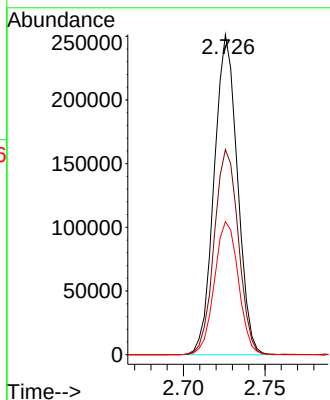
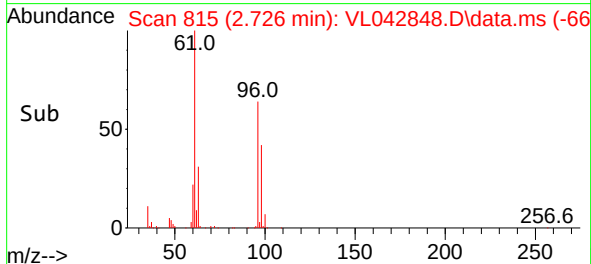
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



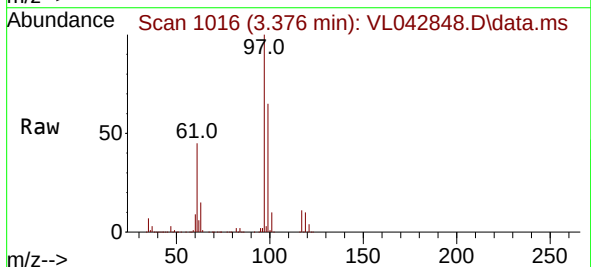
Tgt Ion: 61 Resp: 249370  
 Ion Ratio Lower Upper  
 61 100  
 96 64.1 55.0 82.6  
 98 41.6 34.3 51.5

Manual Integrations  
 APPROVED

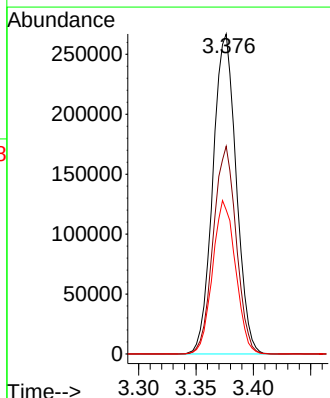
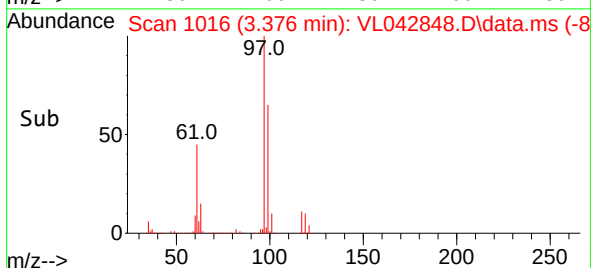
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



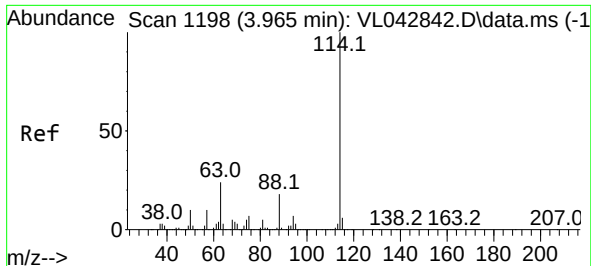
#32  
 1,1,1-Trichloroethane  
 Concen: 13.851 ppbv  
 RT: 3.376 min Scan# 1016  
 Delta R.T. 0.003 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06



Tgt Ion: 97 Resp: 377739  
 Ion Ratio Lower Upper  
 97 100  
 99 63.7 51.0 76.6  
 61 47.2 38.0 57.0







#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

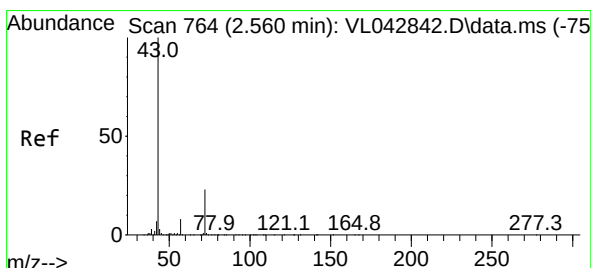
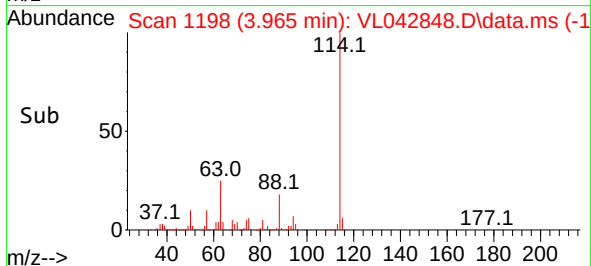
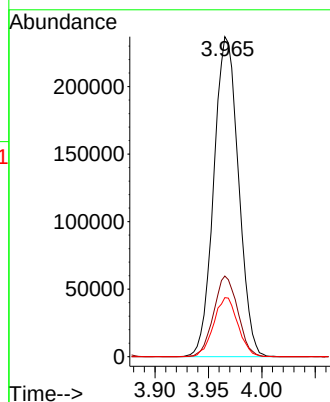
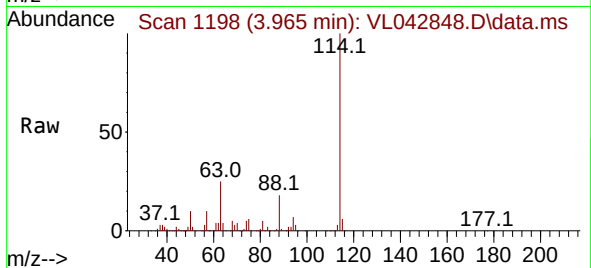
ClientSampleId :

VSTDICC015

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 114   | Resp: | 38087 |
| Ion Ratio | Lower | Upper |       |
| 114       | 100   |       |       |
| 63        | 24.6  | 19.7  | 29.5  |
| 88        | 18.1  | 14.4  | 21.6  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 13.563 ppbv

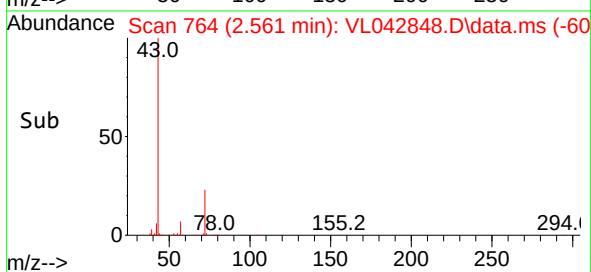
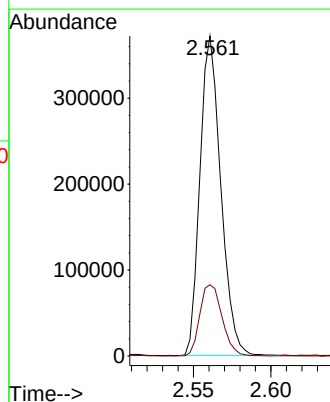
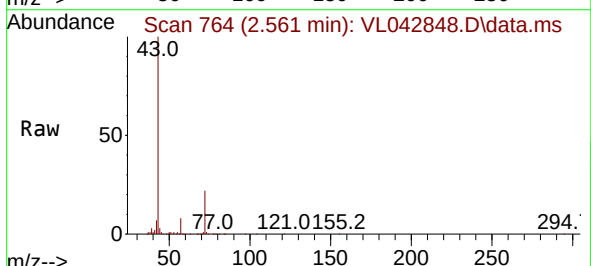
RT: 2.561 min Scan# 764

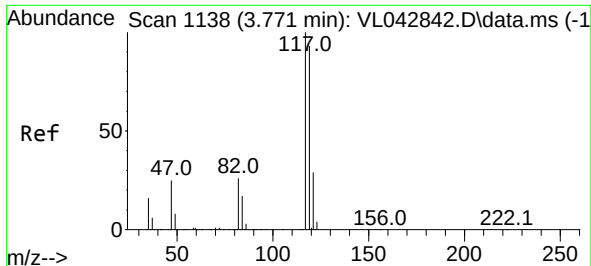
Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

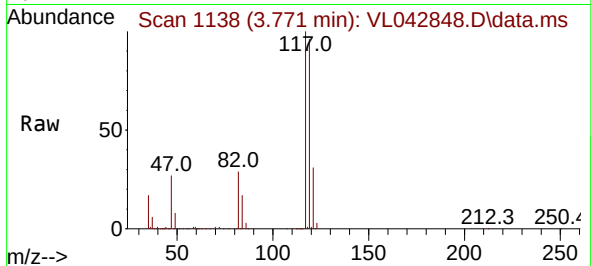
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 43    | Resp: | 348815 |
| Ion Ratio | Lower | Upper |        |
| 43        | 100   |       |        |
| 72        | 23.8  | 18.6  | 28.0   |





#35  
Carbon Tetrachloride  
Concen: 13.990 ppbv  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

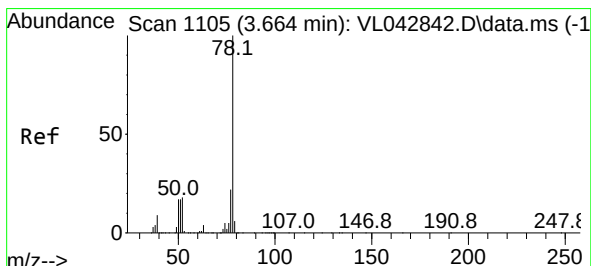
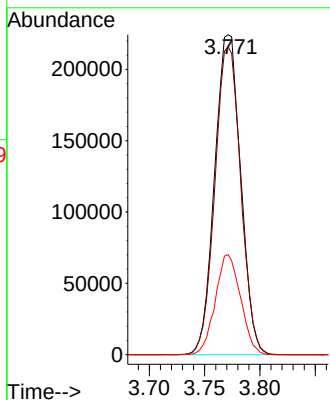
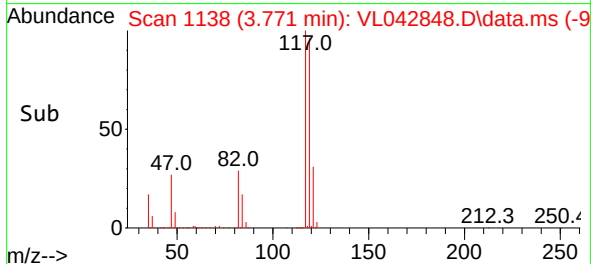
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



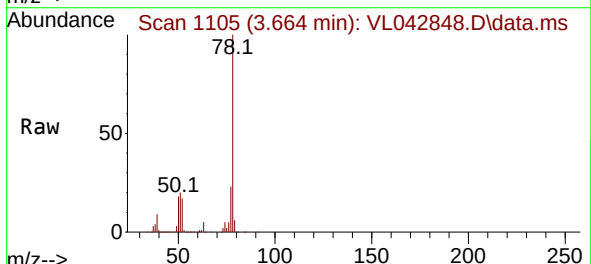
Tgt Ion: 117 Resp: 367354  
Ion Ratio Lower Upper  
117 100  
119 96.3 74.7 112.1  
121 31.2 23.2 34.8

Manual Integrations  
APPROVED

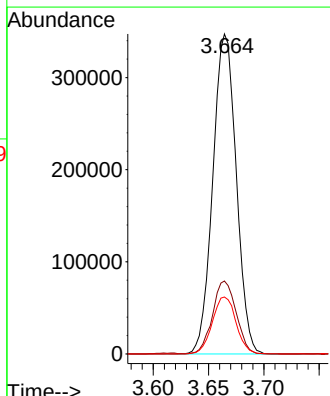
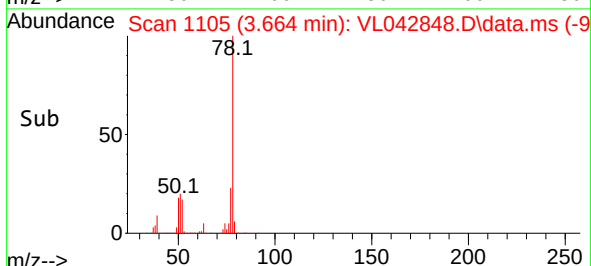
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

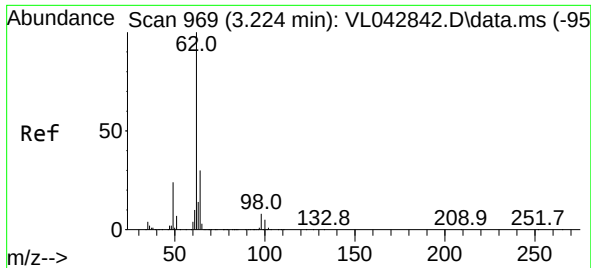


#36  
Benzene  
Concen: 14.033 ppbv  
RT: 3.664 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



Tgt Ion: 78 Resp: 511811  
Ion Ratio Lower Upper  
78 100  
77 22.8 17.7 26.5  
50 17.8 13.9 20.9





#37

1,2-Dichloroethane

Concen: 14.639 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

Tgt Ion: 62 Resp: 278934

Ion Ratio Lower Upper

62 100

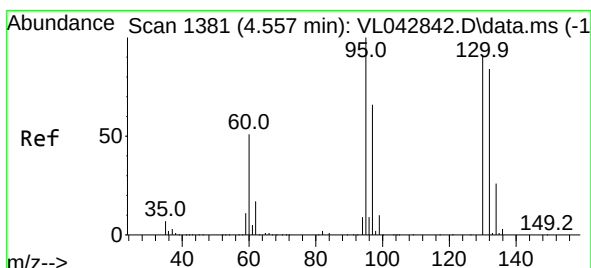
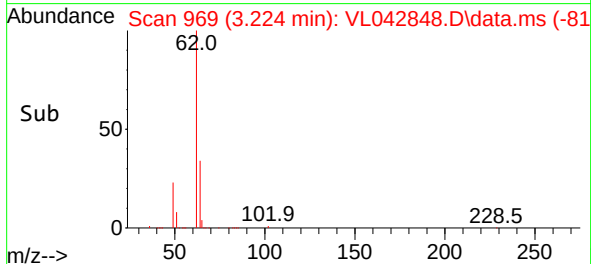
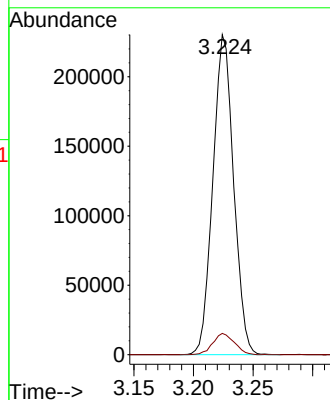
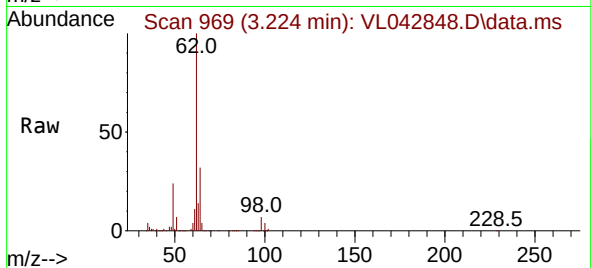
98 6.9 5.9 8.9

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#38

Trichloroethene

Concen: 13.634 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion:130 Resp: 227091

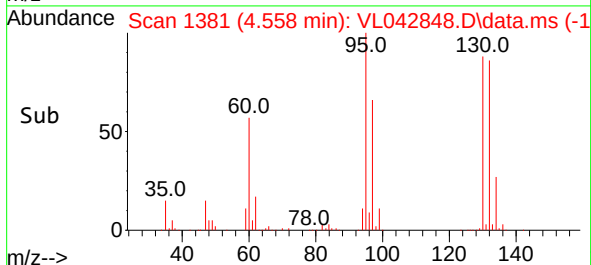
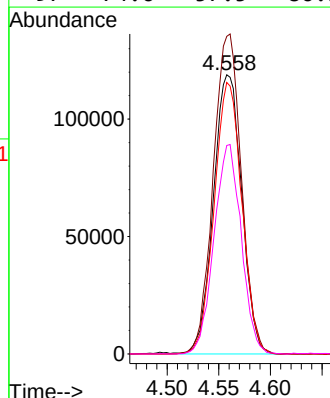
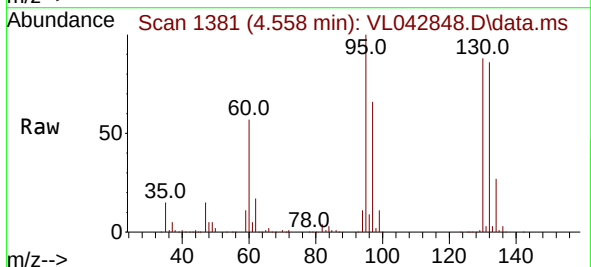
Ion Ratio Lower Upper

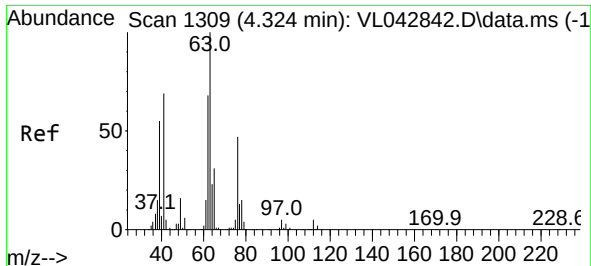
130 100

95 113.8 87.6 131.4

132 97.3 73.8 110.8

97 74.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 13.984 ppbv

RT: 4.325 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042848.D

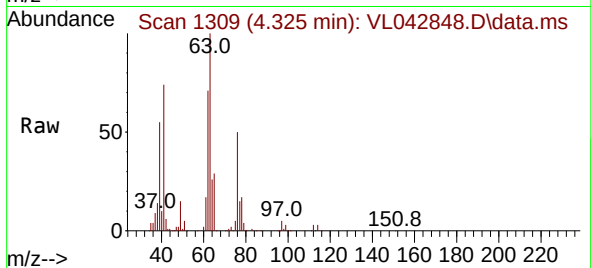
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

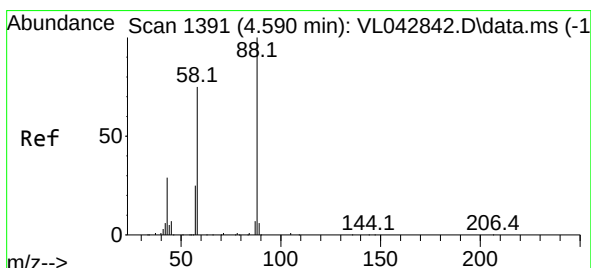
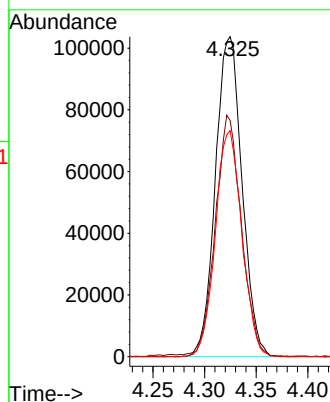
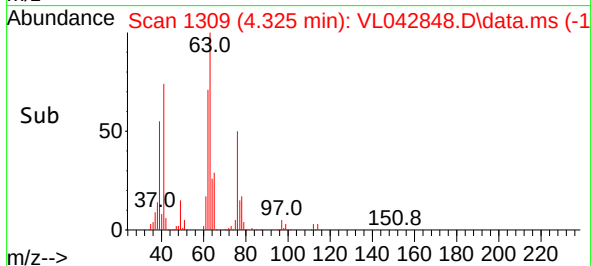
VSTDICC015



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 18627 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 41       | 73.5  | 55.0  | 82.4  |
| 62       | 70.6  | 54.4  | 81.6  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

Concen: 13.212 ppbv

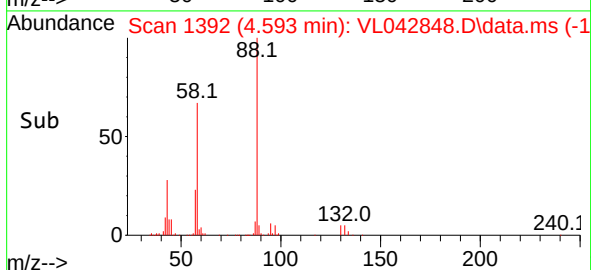
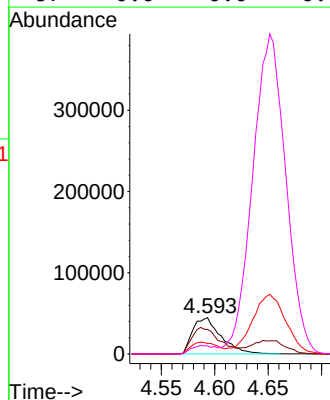
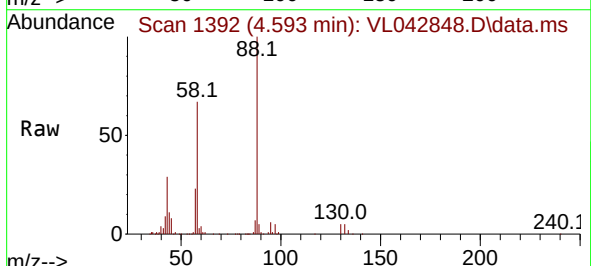
RT: 4.593 min Scan# 1392

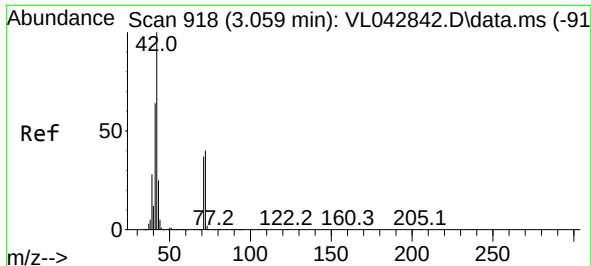
Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

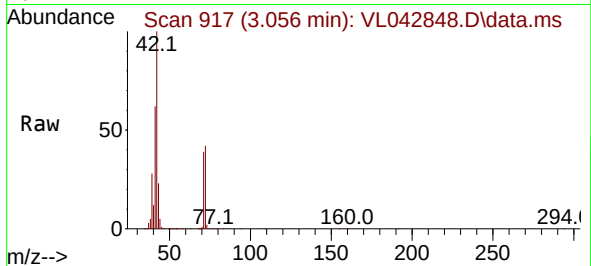
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 82385 |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 58       | 73.5  | 53.8  | 80.6  |
| 43       | 33.9  | 22.8  | 34.2  |
| 57       | 0.0   | 0.0   | 0.0   |





#41  
Tetrahydrofuran  
Concen: 14.001 ppbv  
RT: 3.056 min Scan# 918  
Delta R.T. -0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

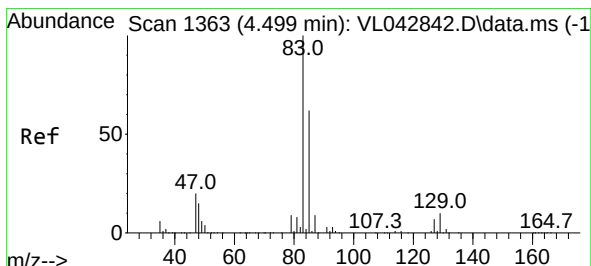
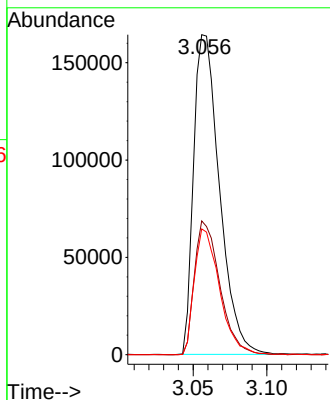
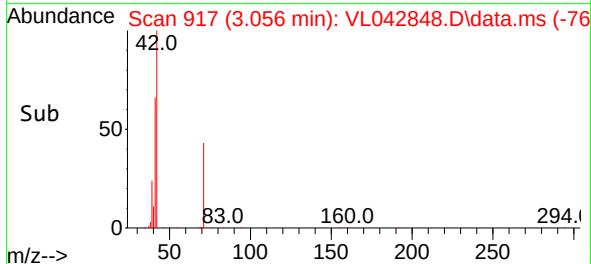
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



Tgt Ion: 42 Resp: 20075  
Ion Ratio Lower Upper  
42 100  
72 41.0 32.6 48.8  
71 38.4 30.0 45.0

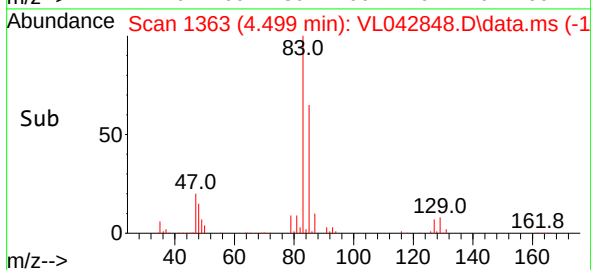
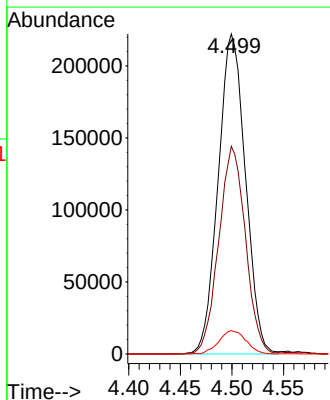
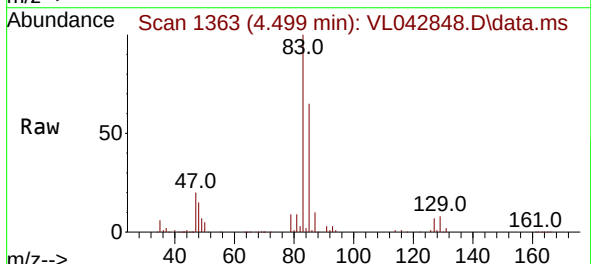
Manual Integrations  
APPROVED

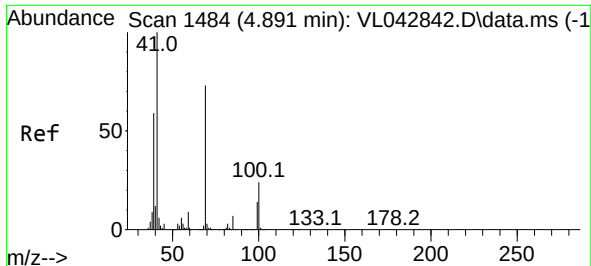
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#42  
Bromodichloromethane  
Concen: 14.372 ppbv  
RT: 4.499 min Scan# 1363  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 83 Resp: 408089  
Ion Ratio Lower Upper  
83 100  
85 64.9 49.8 74.8  
127 7.3 5.8 8.6





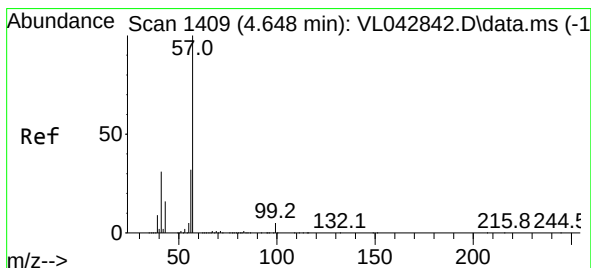
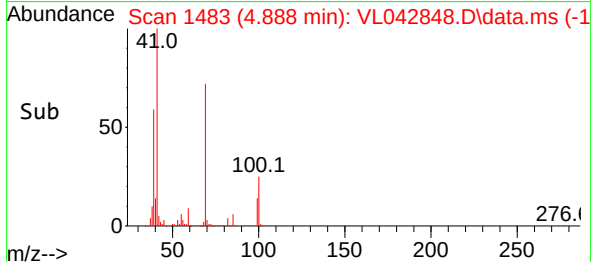
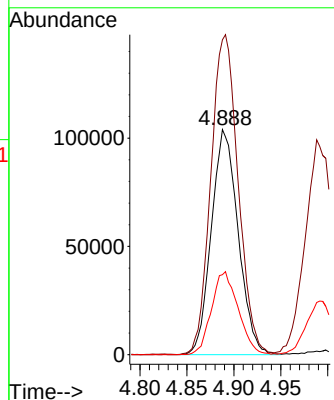
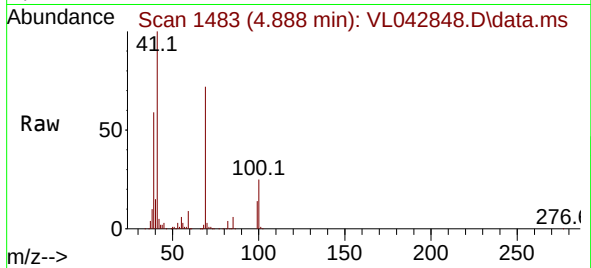
#43  
Methyl Methacrylate  
Concen: 13.808 ppbv  
RT: 4.888 min Scan# 1483  
Delta R.T. -0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 69 Resp: 206590  
Ion Ratio Lower Upper  
69 100  
41 144.8 114.6 172.0  
100 36.8 30.2 45.4

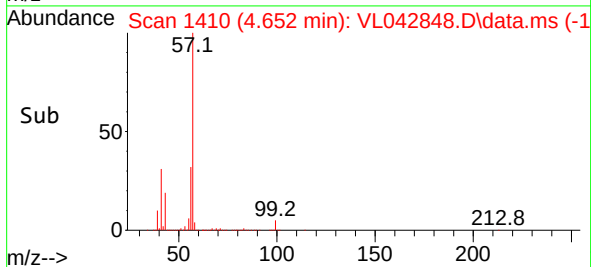
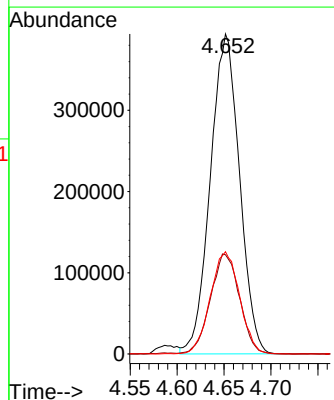
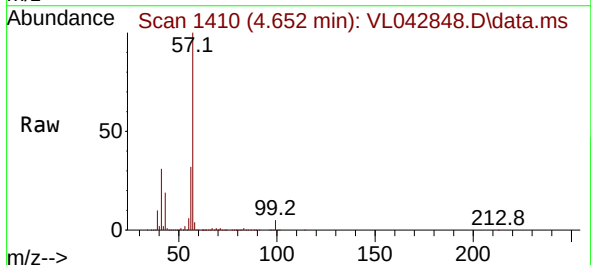
Manual Integrations  
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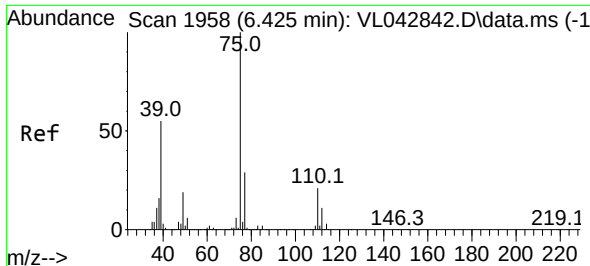
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#44  
2,2,4-Trimethylpentane  
Concen: 13.895 ppbv  
RT: 4.652 min Scan# 1410  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

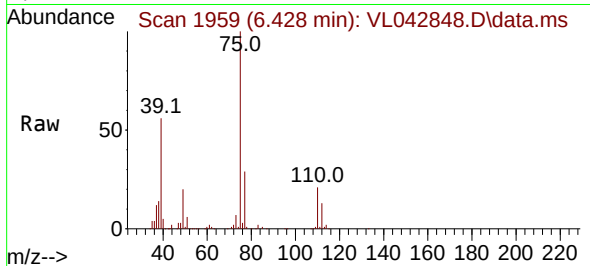
Tgt Ion: 57 Resp: 850847  
Ion Ratio Lower Upper  
57 100  
41 31.5 24.8 37.2  
56 32.1 25.5 38.3





#45  
 t-1,3-Dichloropropene  
 Concen: 14.387 ppbv  
 RT: 6.428 min Scan# 1958  
 Delta R.T. 0.003 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

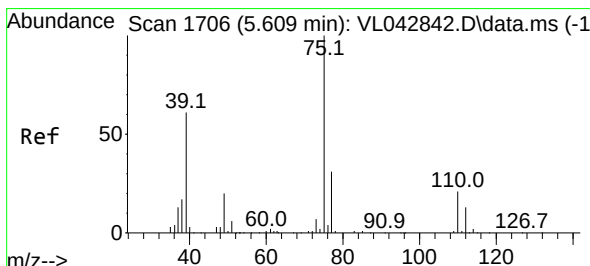
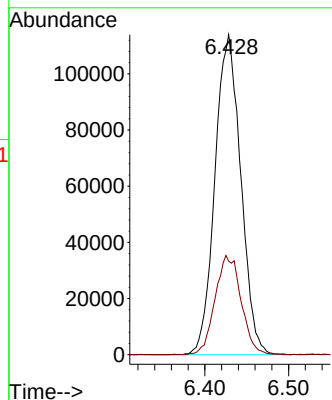
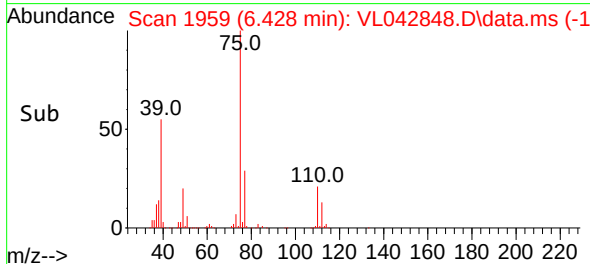
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015



Tgt Ion: 75 Resp: 24411  
 Ion Ratio Lower Upper  
 75 100  
 77 29.2 23.8 35.6

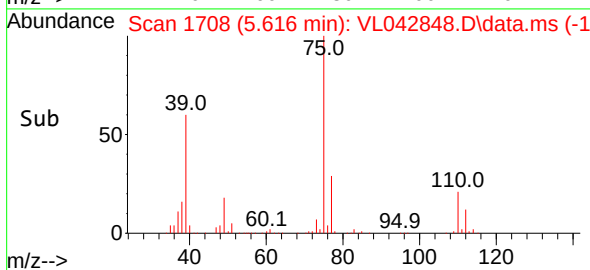
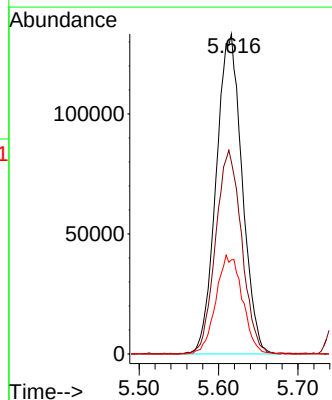
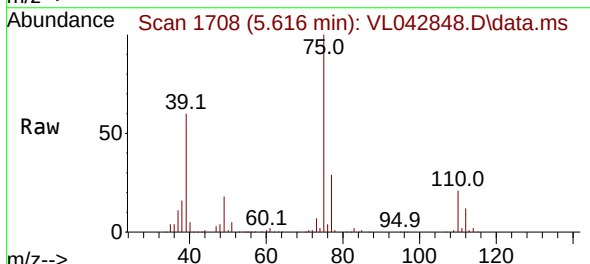
Manual Integrations  
 APPROVED

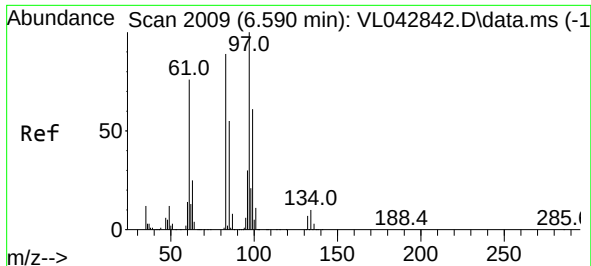
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



#46  
 cis-1,3-Dichloropropene  
 Concen: 14.191 ppbv  
 RT: 5.616 min Scan# 1708  
 Delta R.T. 0.007 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

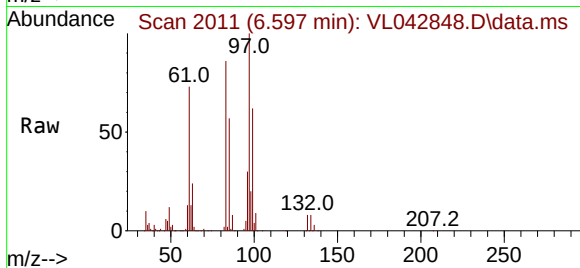
Tgt Ion: 75 Resp: 302339  
 Ion Ratio Lower Upper  
 75 100  
 39 59.9 48.9 73.3  
 77 29.4 24.9 37.3





#47  
1,1,2-Trichloroethane  
Concen: 14.118 ppbv  
RT: 6.597 min Scan# 2009  
Delta R.T. 0.007 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

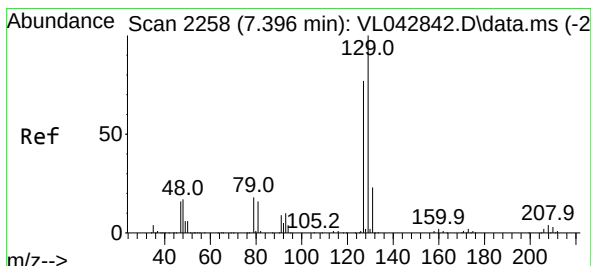
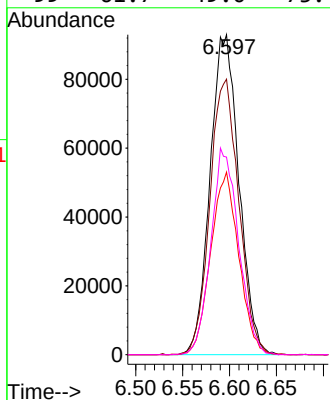
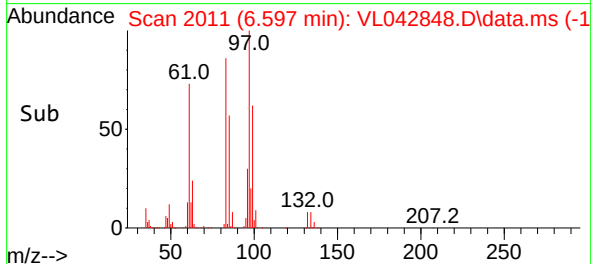
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



Tgt Ion: 97 Resp: 19906  
Ion Ratio Lower Upper  
97 100  
83 86.0 71.0 106.4  
85 57.0 43.6 65.4  
99 61.7 49.0 73.4

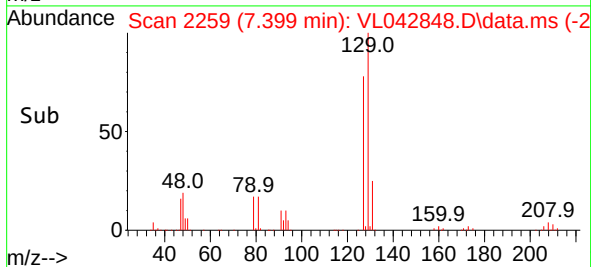
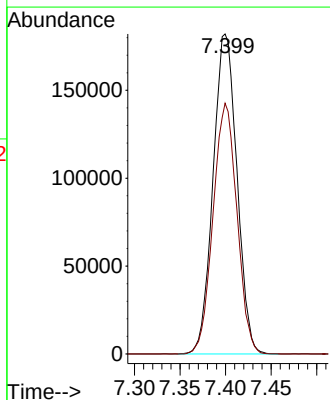
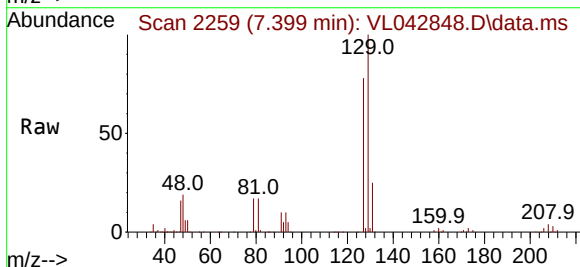
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

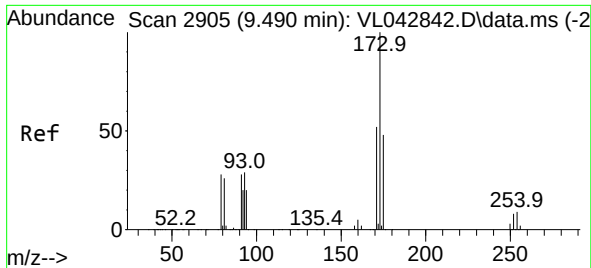


#48  
Dibromochloromethane  
Concen: 14.535 ppbv  
RT: 7.399 min Scan# 2259  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion:129 Resp: 331947  
Ion Ratio Lower Upper  
129 100  
127 78.4 39.4 118.2

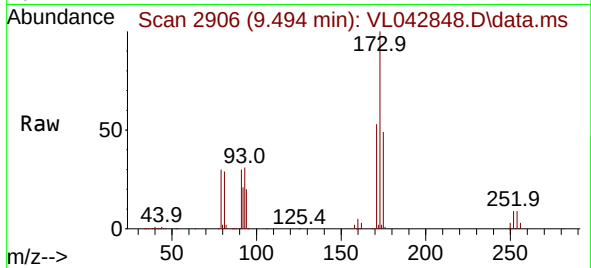






#49  
Bromoform  
Concen: 14.162 ppbv  
RT: 9.494 min Scan# 2905  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

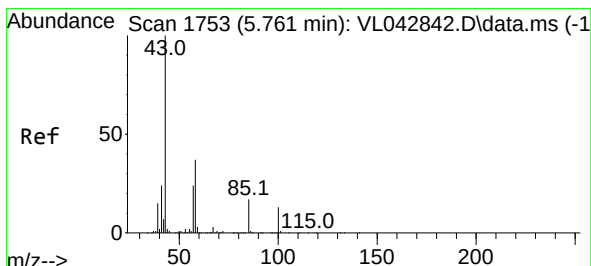
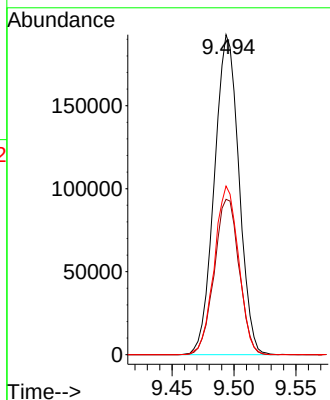
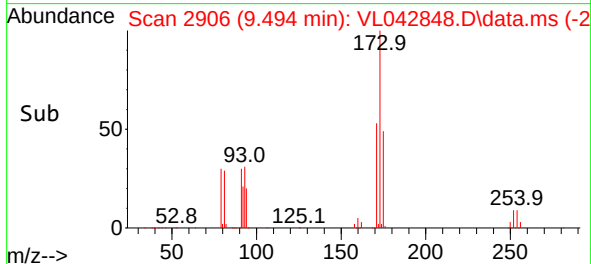
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



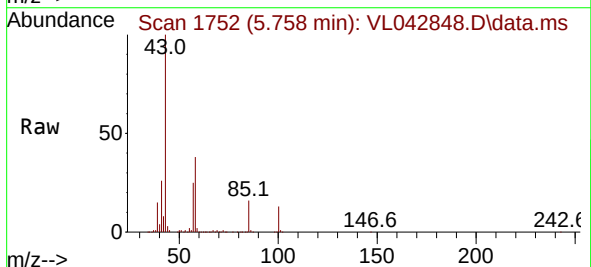
Tgt Ion:173 Resp: 266732  
Ion Ratio Lower Upper  
173 100  
175 49.2 39.2 58.8  
171 52.1 41.3 61.9

Manual Integrations  
APPROVED

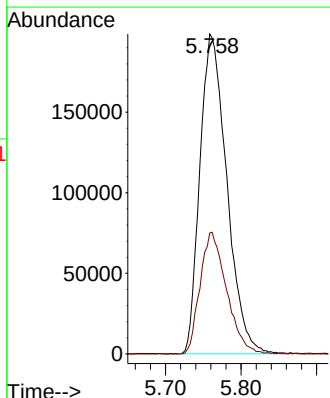
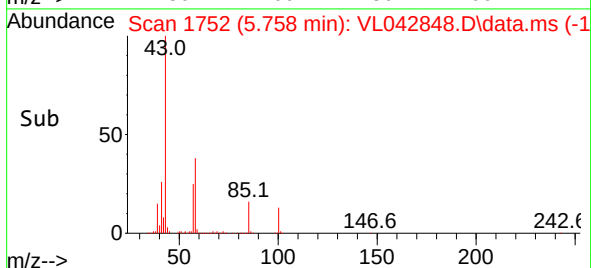
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

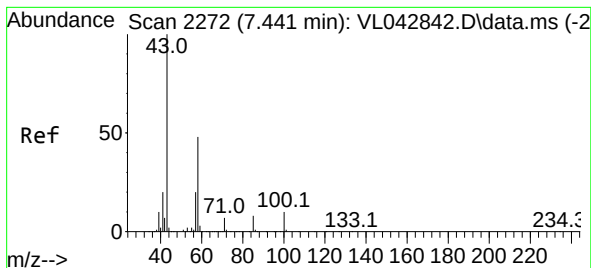


#50  
4-Methyl-2-Pentanone  
Concen: 14.073 ppbv  
RT: 5.758 min Scan# 1752  
Delta R.T. -0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



Tgt Ion: 43 Resp: 490917  
Ion Ratio Lower Upper  
43 100  
58 37.5 29.8 44.8





#51

2-Hexanone

Concen: 14.255 ppbv

RT: 7.448 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

Tgt Ion: 43 Resp: 389940

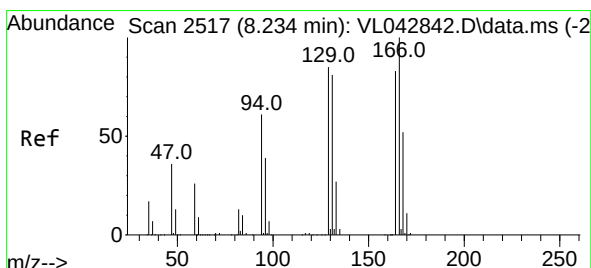
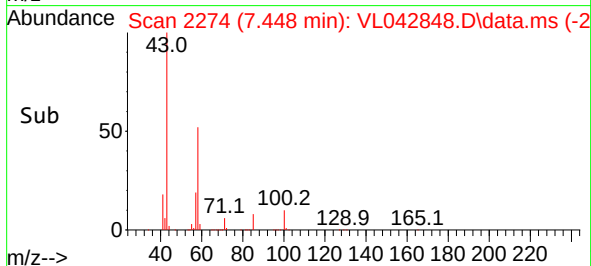
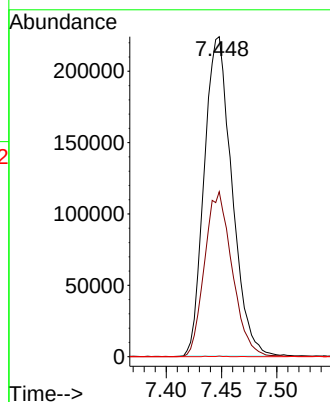
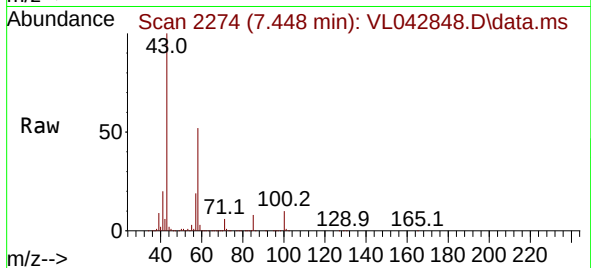
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 51.6  | 41.0  | 61.6  |
| 98  | 0.1   | 0.1   | 0.1   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#52

Tetrachloroethene

Concen: 12.772 ppbv

RT: 8.238 min Scan# 2518

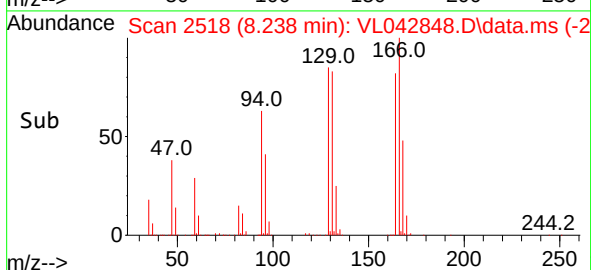
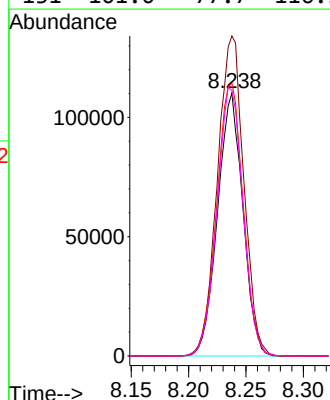
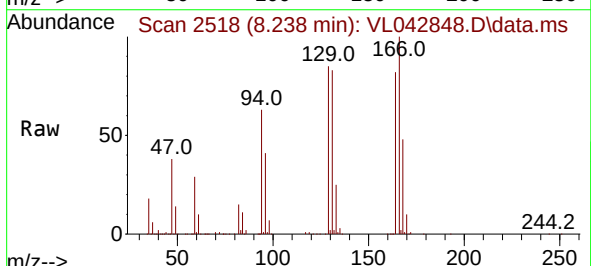
Delta R.T. 0.003 min

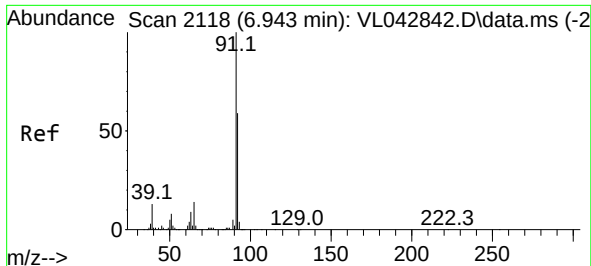
Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion:164 Resp: 168712

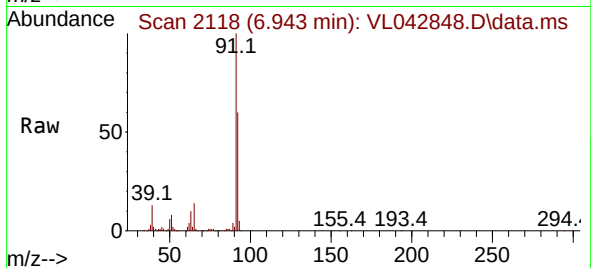
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 121.7 | 96.5  | 144.7 |
| 129 | 103.7 | 81.8  | 122.6 |
| 131 | 101.0 | 77.7  | 116.5 |





#53  
Toluene  
Concen: 13.961 ppbv  
RT: 6.943 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

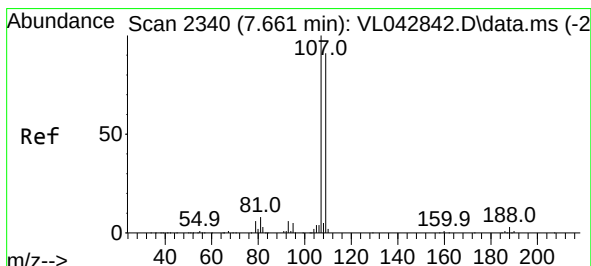
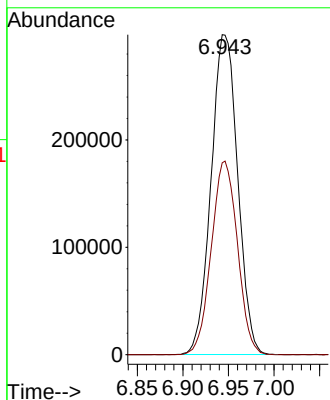
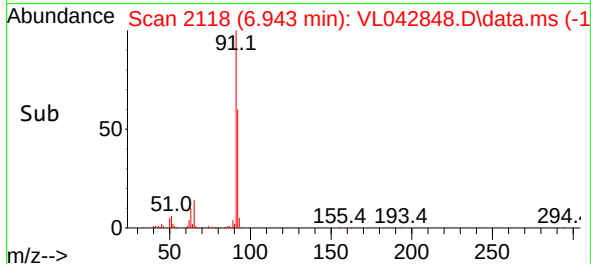
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



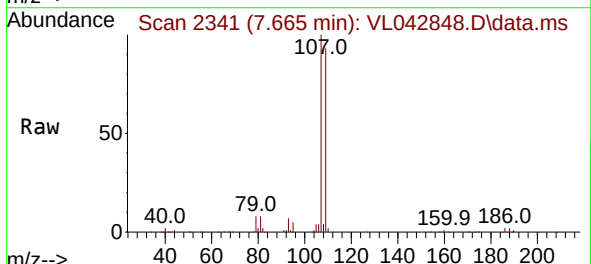
Tgt Ion: 91 Resp: 60594  
Ion Ratio Lower Upper  
91 100  
92 59.4 47.8 71.6

Manual Integrations  
APPROVED

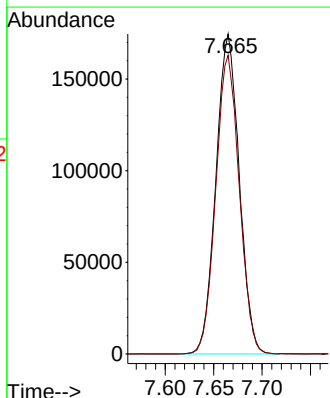
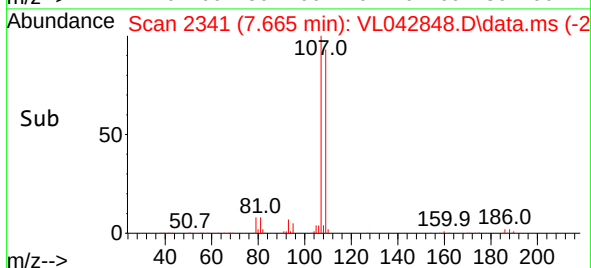
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

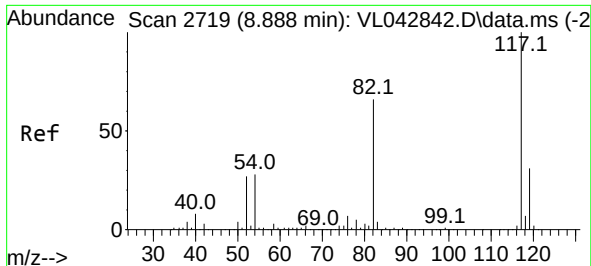


#54  
1,2-Dibromoethane  
Concen: 14.173 ppbv  
RT: 7.665 min Scan# 2341  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



Tgt Ion:107 Resp: 292327  
Ion Ratio Lower Upper  
107 100  
109 93.4 72.5 108.7





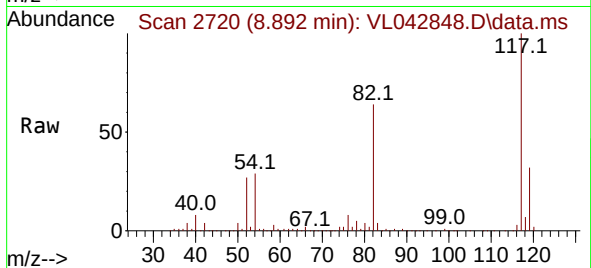
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.892 min Scan# 2719  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

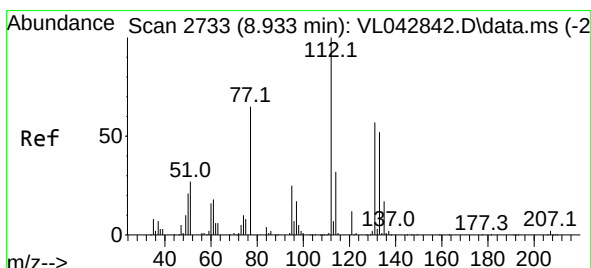
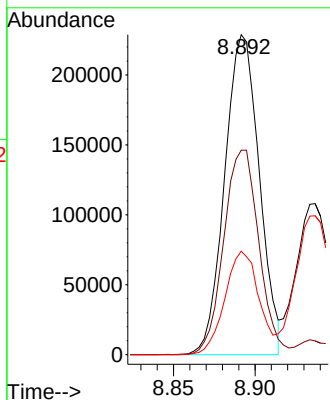
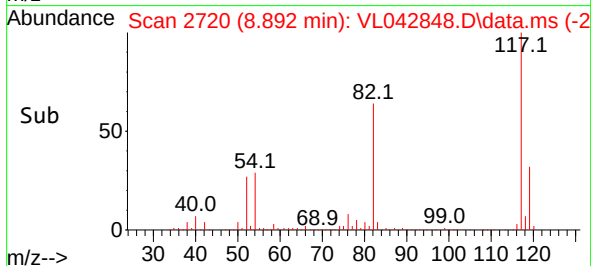
VSTDIC015



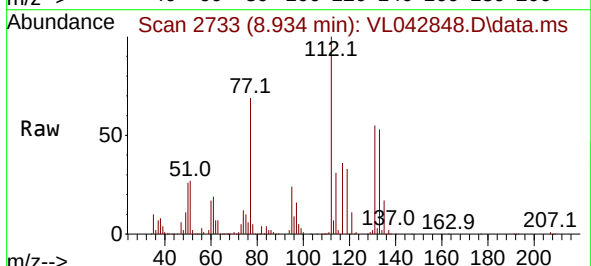
Tgt Ion:117 Resp: 337870  
Ion Ratio Lower Upper  
117 100  
82 65.3 54.6 81.8  
119 32.5 25.9 38.9

Manual Integrations  
APPROVED

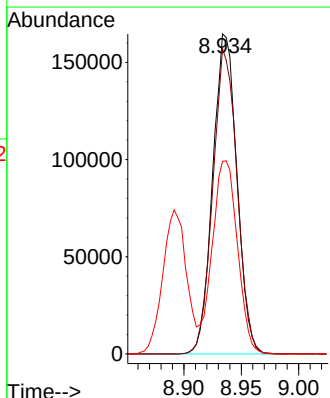
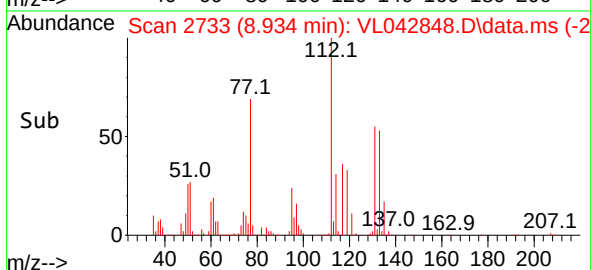
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

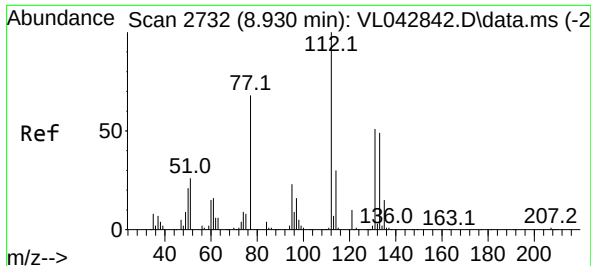


#56  
1,1,1,2-Tetrachloroethane  
Concen: 13.810 ppbv  
RT: 8.934 min Scan# 2733  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



Tgt Ion:131 Resp: 241293  
Ion Ratio Lower Upper  
131 100  
133 95.6 77.4 116.0  
119 63.4 51.2 76.8





#57

Chlorobenzene

Concen: 13.668 ppbv

RT: 8.934 min Scan# 2732

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

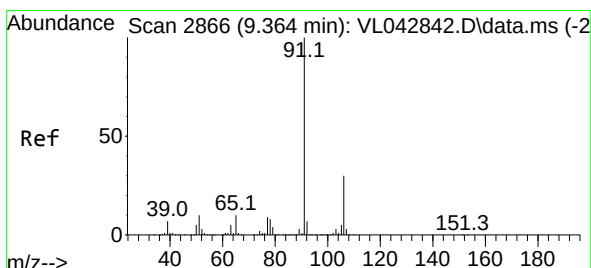
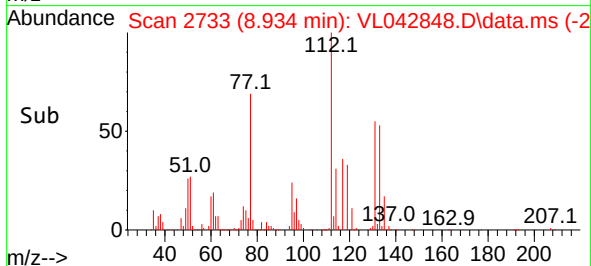
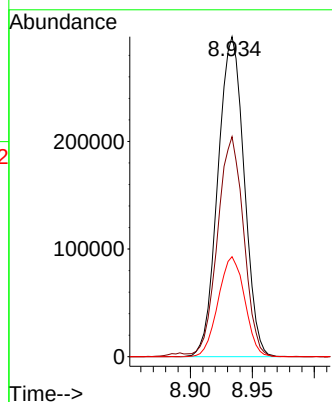
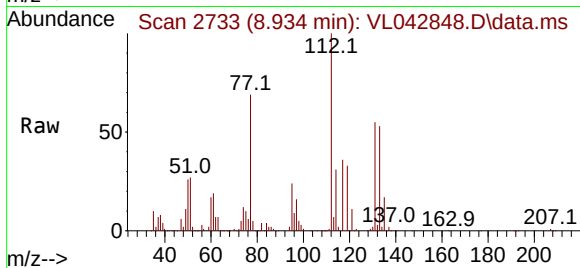
VSTDIC015

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 112   | Resp: | 439109 |
| Ion Ratio | Lower | Upper |        |
| 112       | 100   |       |        |
| 77        | 68.6  | 55.5  | 83.3   |
| 114       | 31.2  | 27.2  | 33.2   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#58

Ethyl Benzene

Concen: 13.859 ppbv

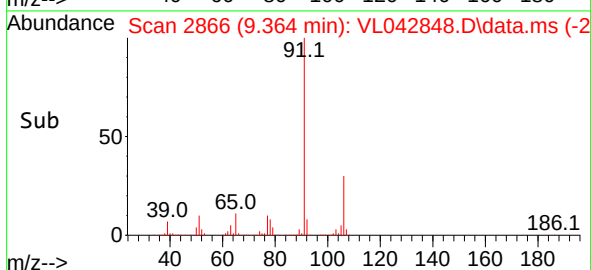
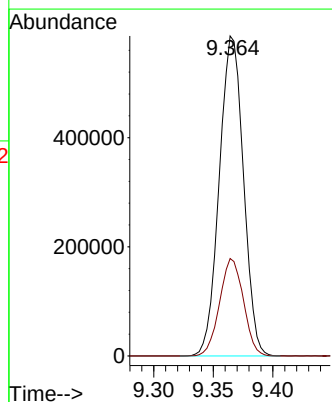
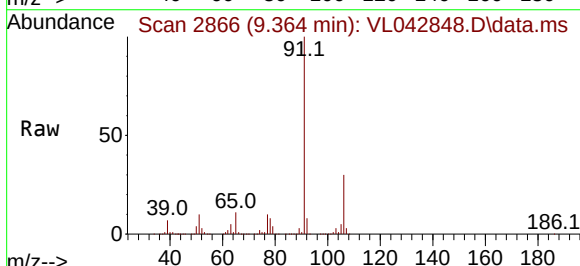
RT: 9.364 min Scan# 2866

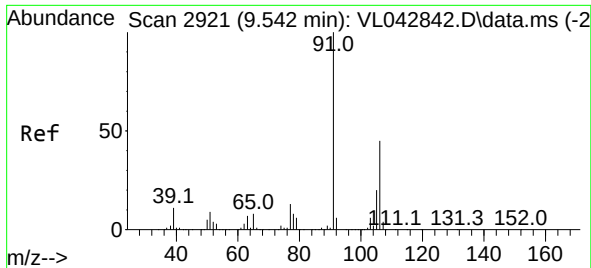
Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 826316 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 106       | 30.5  | 23.9  | 35.9   |





#59

m/p-Xylene

Concen: 27.650 ppbv m

RT: 9.561 min Scan# 2921

Delta R.T. 0.020 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

Tgt Ion: 91 Resp: 129438

Ion Ratio Lower Upper

91 100

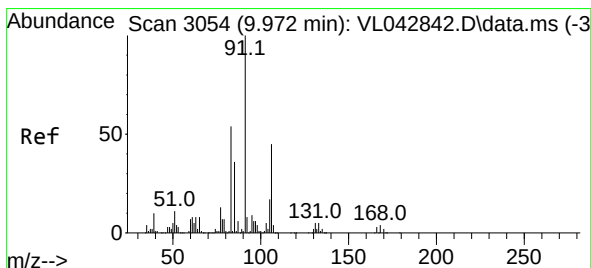
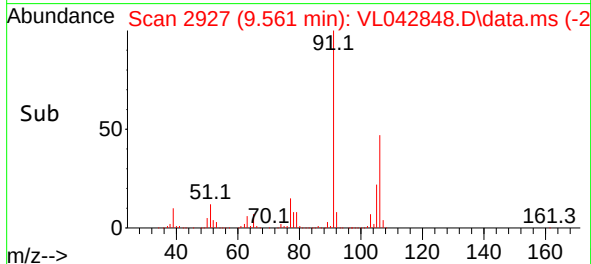
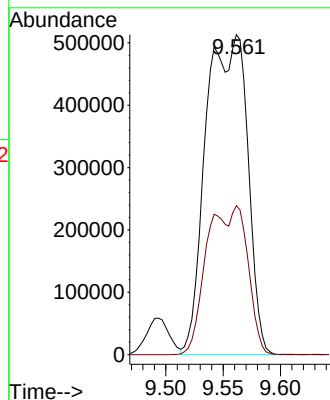
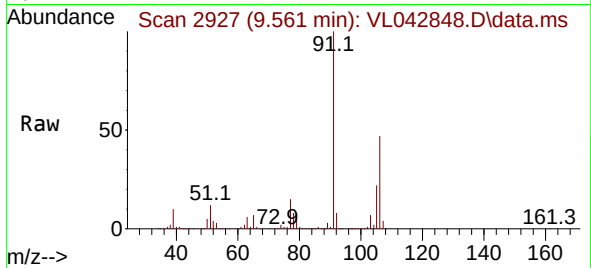
106 0.0 0.0 0.0

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#60

o-Xylene

Concen: 13.389 ppbv

RT: 9.973 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042848.D

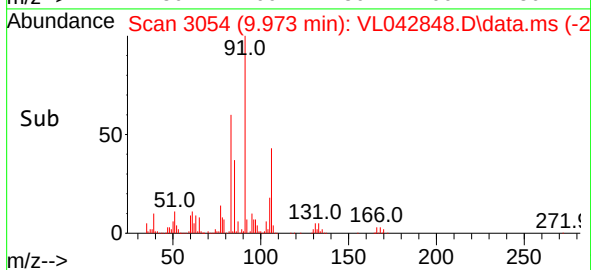
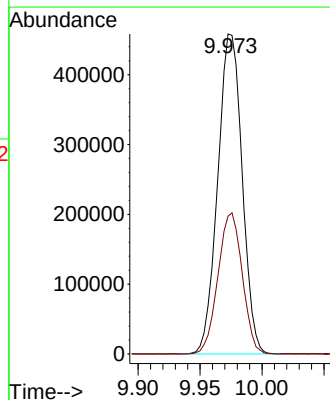
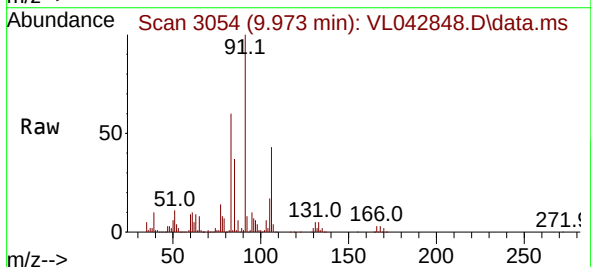
Acq: 13 Aug 2025 12:06

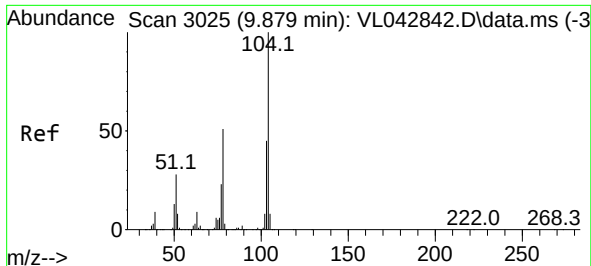
Tgt Ion: 91 Resp: 629445

Ion Ratio Lower Upper

91 100

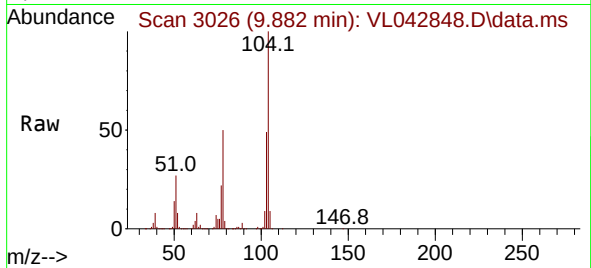
106 43.9 21.8 65.4





#61  
Styrene  
Concen: 13.827 ppbv  
RT: 9.882 min Scan# 3025  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

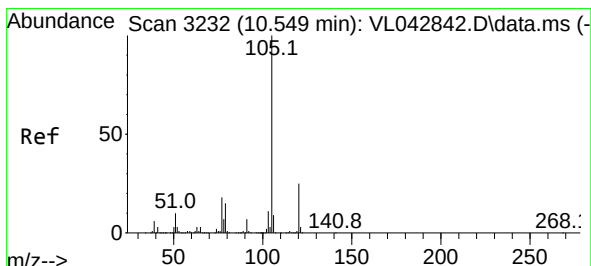
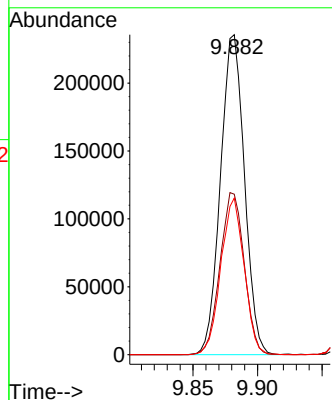
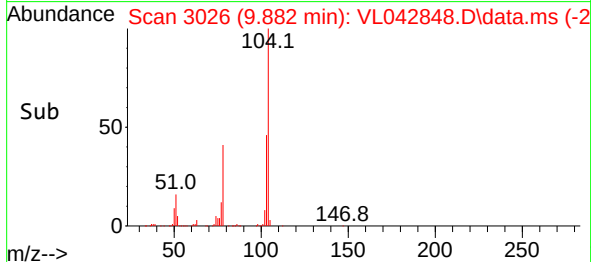
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



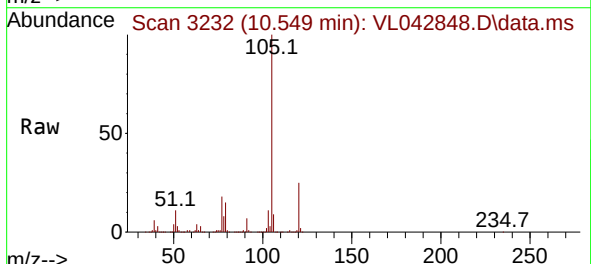
Tgt Ion:104 Resp: 304560  
Ion Ratio Lower Upper  
104 100  
78 51.1 40.6 61.0  
103 47.6 37.7 56.5

Manual Integrations  
APPROVED

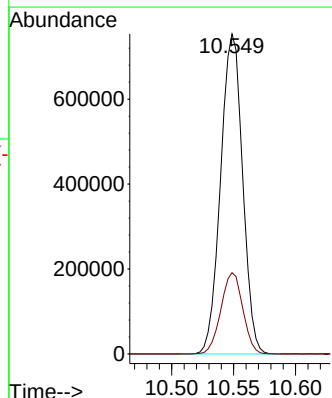
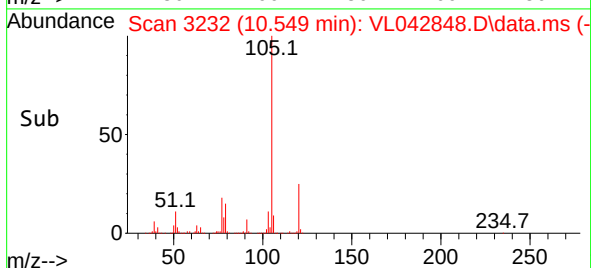
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

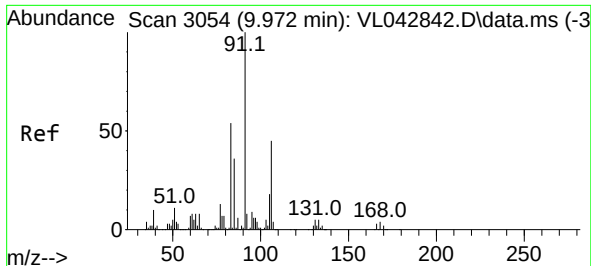


#62  
Isopropylbenzene  
Concen: 13.559 ppbv  
RT: 10.549 min Scan# 3232  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



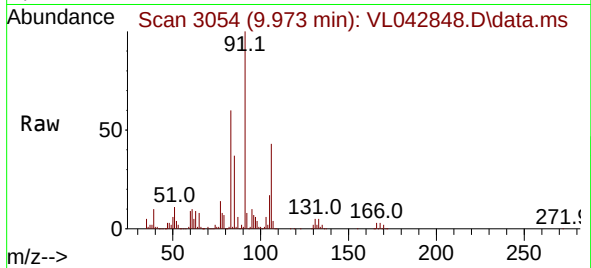
Tgt Ion:105 Resp: 931574  
Ion Ratio Lower Upper  
105 100  
120 25.2 20.6 30.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 13.356 ppbv  
RT: 9.973 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

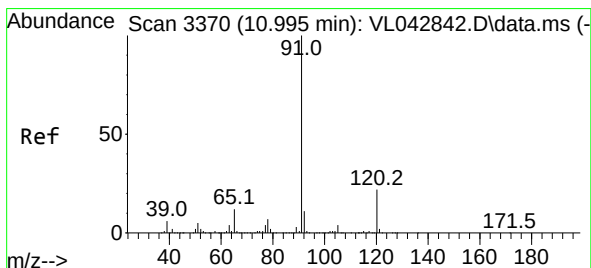
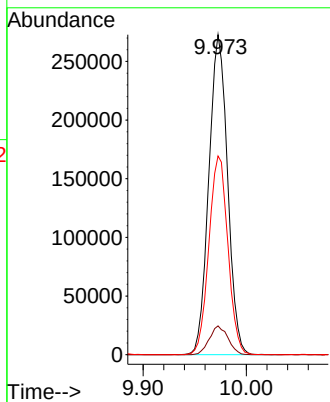
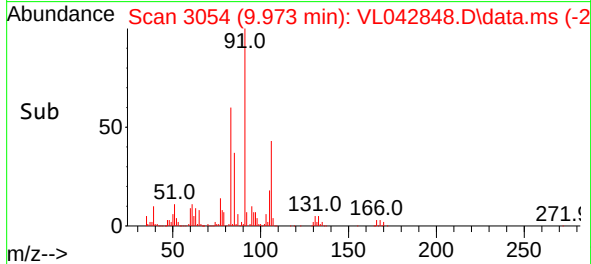
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



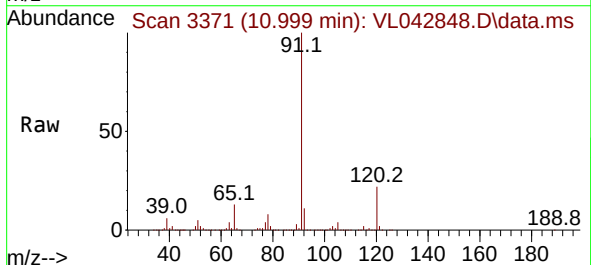
Tgt Ion: 83 Resp: 342890  
Ion Ratio Lower Upper  
83 100  
131 9.0 4.8 14.3  
85 63.0 32.3 96.8

Manual Integrations  
APPROVED

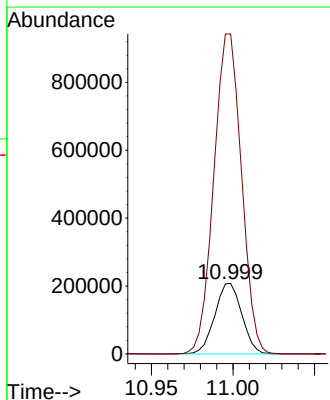
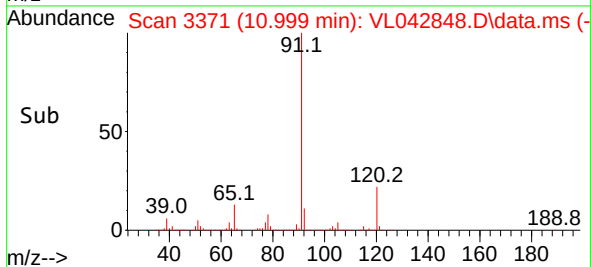
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



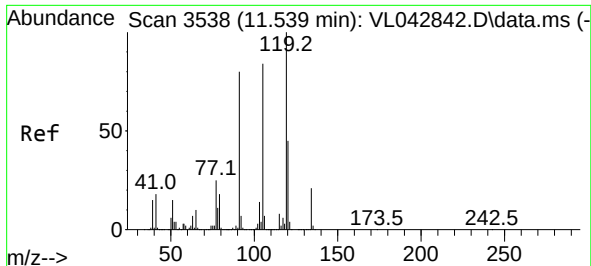
#64  
n-propylbenzene  
Concen: 13.646 ppbv  
RT: 10.999 min Scan# 3371  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



Tgt Ion:120 Resp: 239209  
Ion Ratio Lower Upper  
120 100  
91 465.1 375.8 563.6

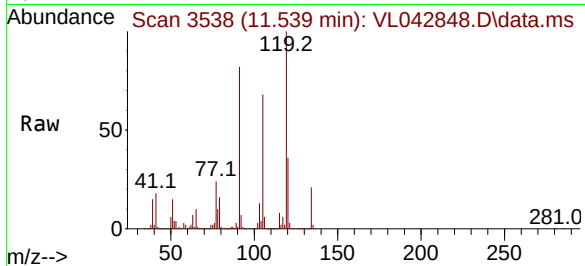






#65  
tert-Butylbenzene  
Concen: 12.965 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

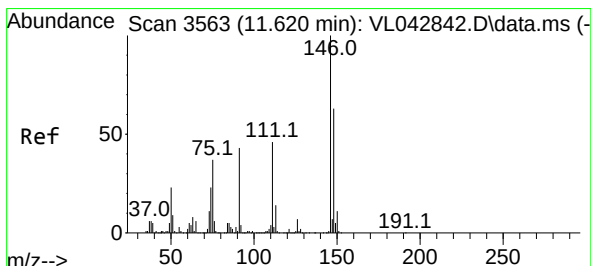
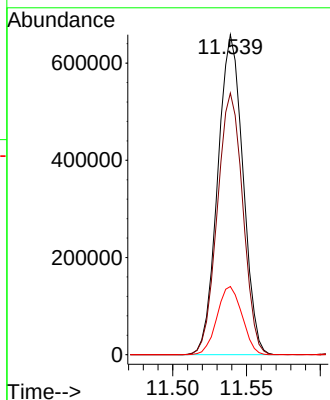
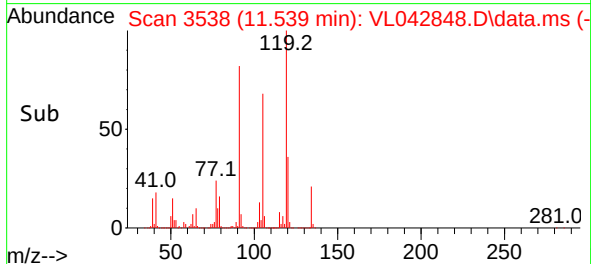
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



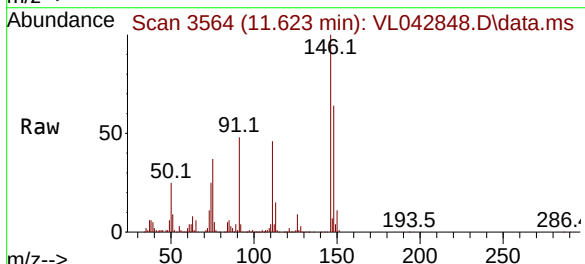
Tgt Ion: 119 Resp: 785250  
Ion Ratio Lower Upper  
119 100  
91 82.4 63.9 95.9  
134 21.1 17.0 25.4

Manual Integrations  
APPROVED

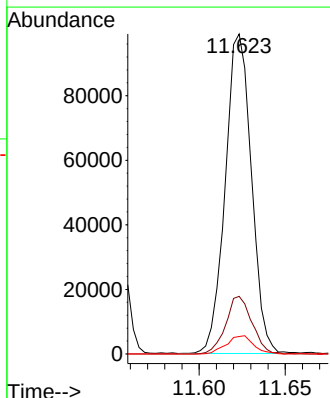
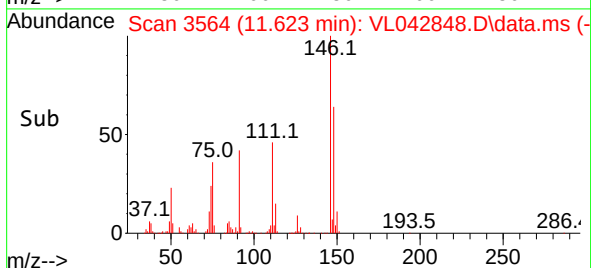
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

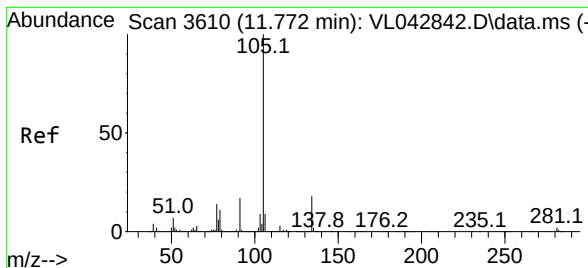


#66  
Benzyl Chloride  
Concen: 13.617 ppbv  
RT: 11.623 min Scan# 3564  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



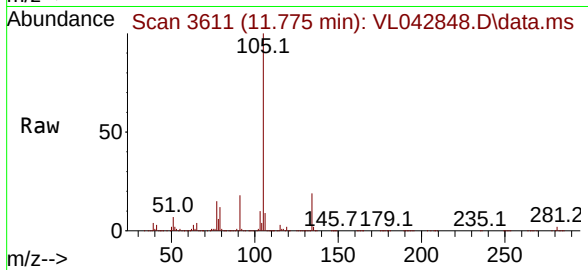
Tgt Ion: 91 Resp: 104698  
Ion Ratio Lower Upper  
91 100  
126 18.1 14.2 21.4  
128 5.9 5.0 7.6





#67  
 sec-Butylbenzene  
 Concen: 13.127 ppbv  
 RT: 11.775 min Scan# 3611  
 Delta R.T. 0.003 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

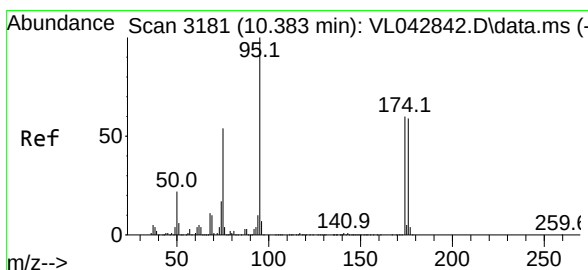
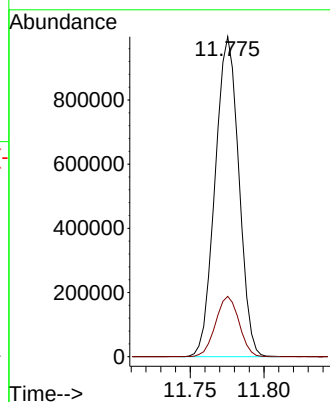
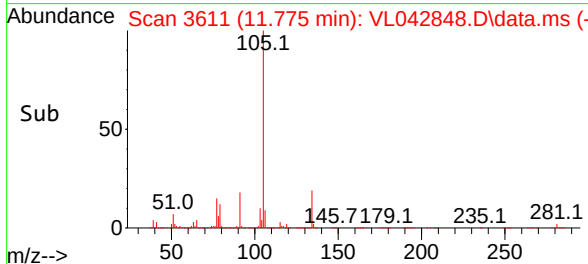
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015



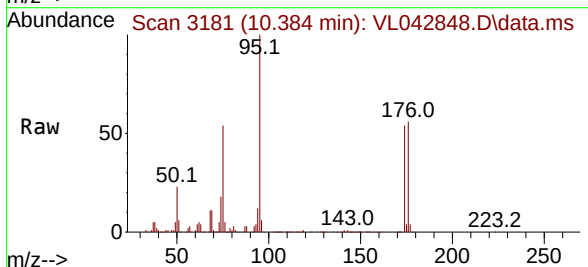
Tgt Ion:105 Resp: 1115979  
 Ion Ratio Lower Upper  
 105 100  
 134 18.7 14.9 22.3

Manual Integrations  
 APPROVED

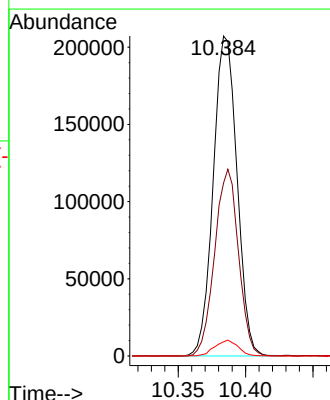
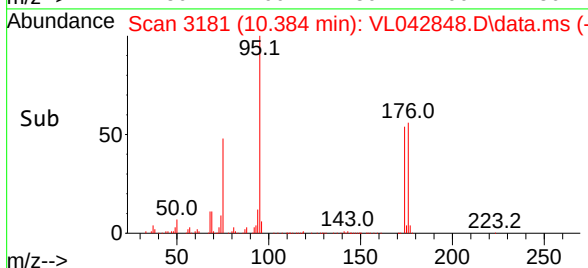
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

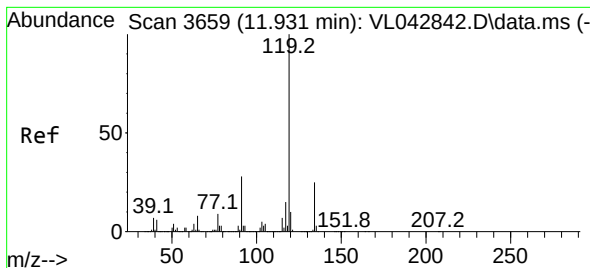


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.050 ppbv  
 RT: 10.384 min Scan# 3181  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06



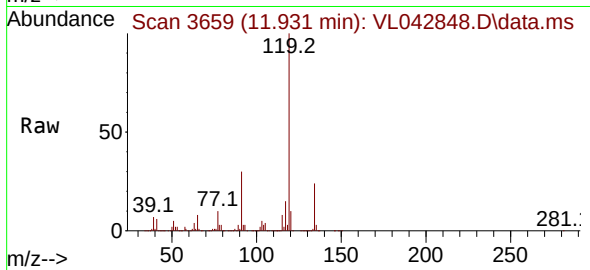
Tgt Ion: 95 Resp: 254655  
 Ion Ratio Lower Upper  
 95 100  
 174 58.3 48.4 72.6  
 175 4.8 3.8 5.8





#69  
p-Isopropyltoluene  
Concen: 12.891 ppbv  
RT: 11.931 min Scan# 3659  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

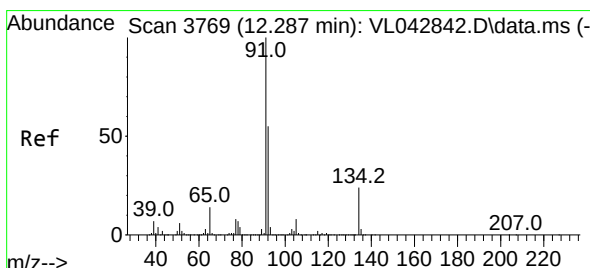
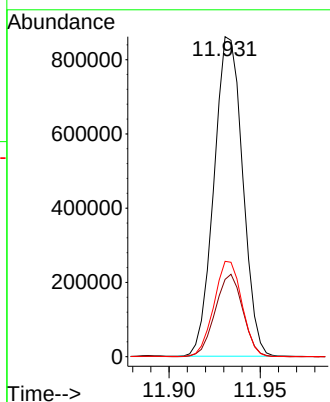
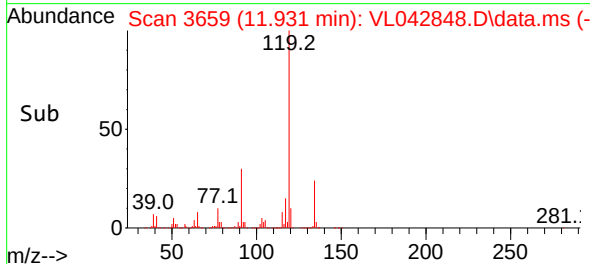
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



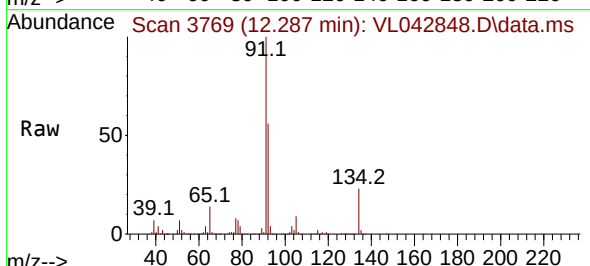
Tgt Ion: 119 Resp: 940888  
Ion Ratio Lower Upper  
119 100  
134 25.0 20.6 30.8  
91 29.4 22.6 34.0

Manual Integrations  
APPROVED

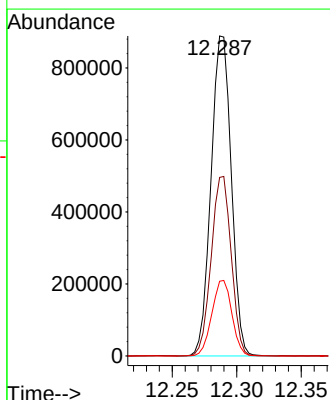
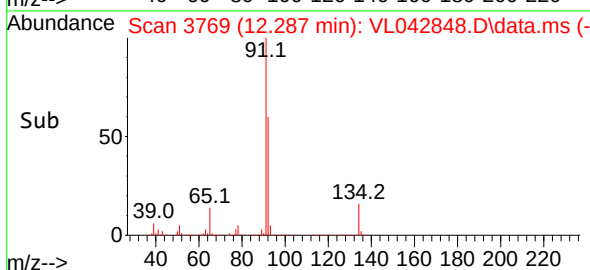
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

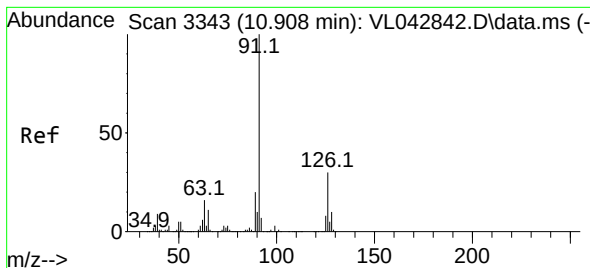


#70  
n-Butylbenzene  
Concen: 13.410 ppbv  
RT: 12.287 min Scan# 3769  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



Tgt Ion: 91 Resp: 970700  
Ion Ratio Lower Upper  
91 100  
92 55.5 44.6 66.8  
134 23.3 19.0 28.4





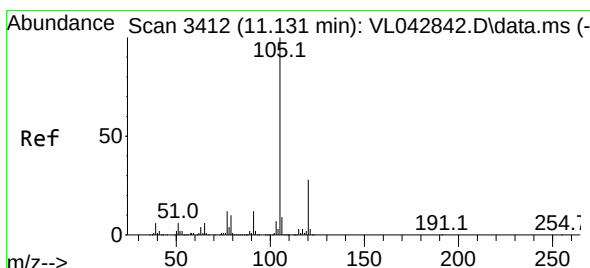
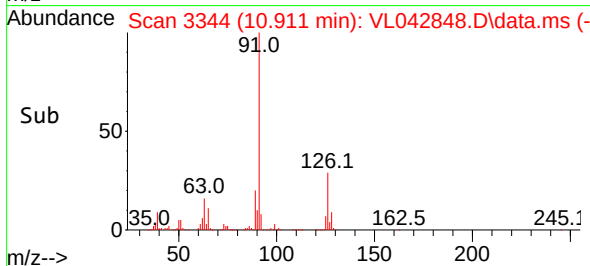
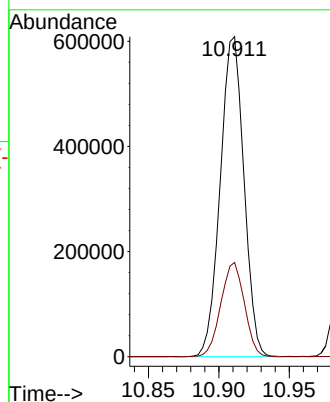
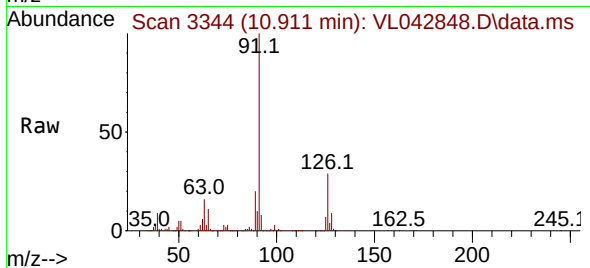
#71  
2-Chlorotoluene  
Concen: 13.378 ppbv  
RT: 10.911 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

Tgt Ion: 91 Resp: 713690  
Ion Ratio Lower Upper  
91 100  
126 29.2 12.0 47.8

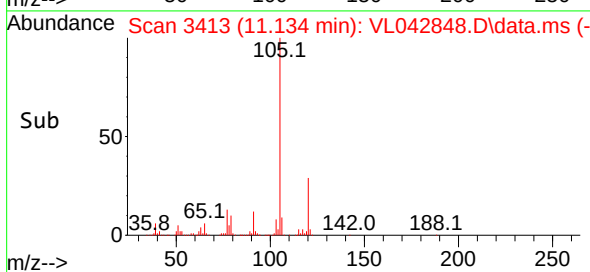
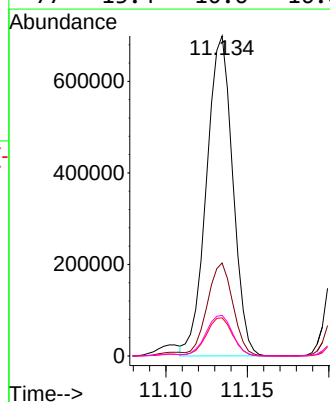
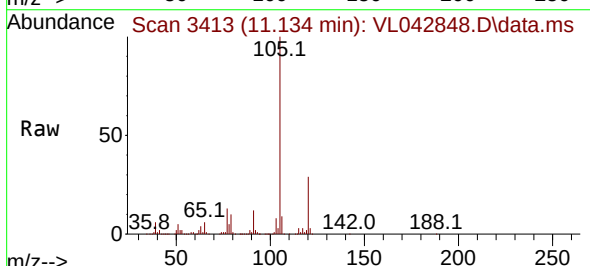
Manual Integrations  
APPROVED

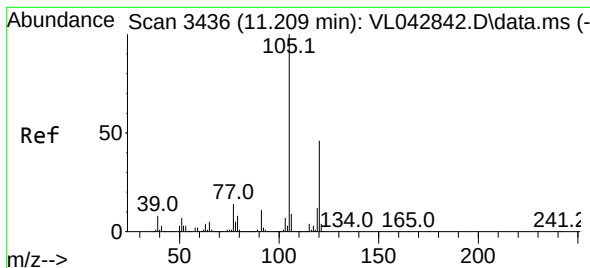
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#72  
4-Ethyltoluene  
Concen: 13.722 ppbv  
RT: 11.134 min Scan# 3413  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 782057  
Ion Ratio Lower Upper  
105 100  
120 29.6 23.4 35.2  
91 12.5 9.8 14.6  
77 13.4 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 13.418 ppbv

RT: 11.212 min Scan# 3436

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

Tgt Ion:105 Resp: 650280

Ion Ratio Lower Upper

105 100

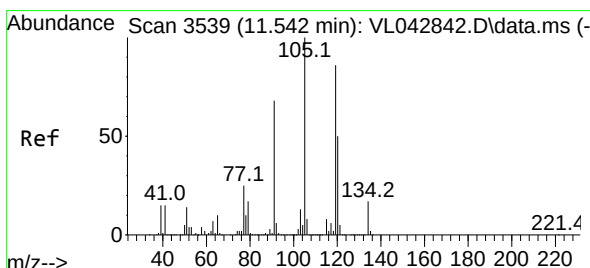
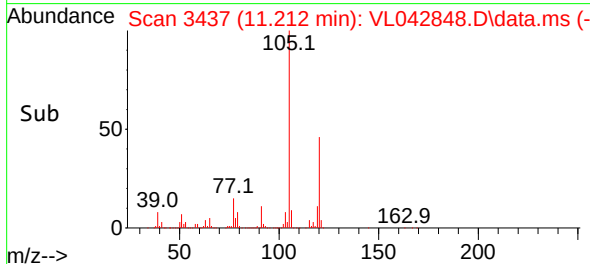
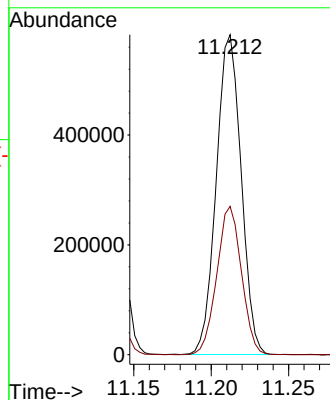
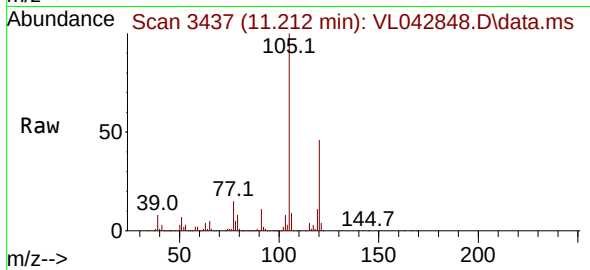
120 46.4 36.6 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 13.003 ppbv

RT: 11.546 min Scan# 3540

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 691709

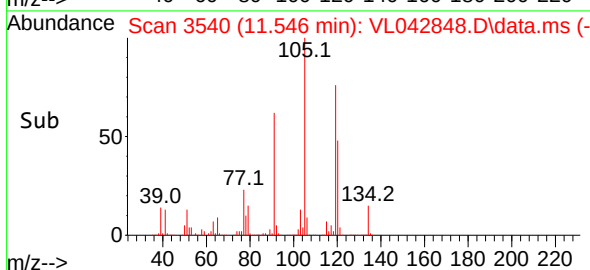
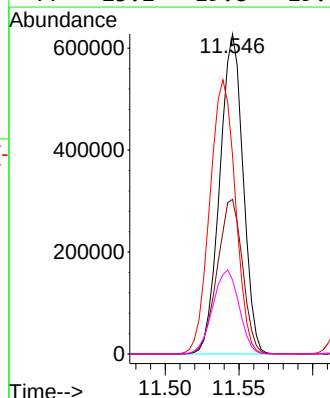
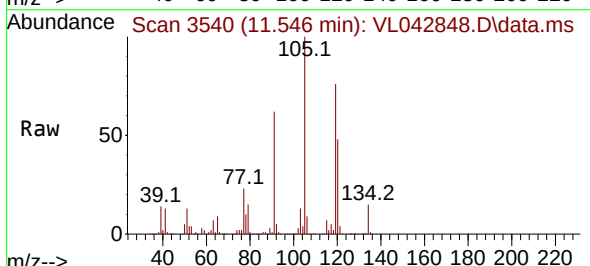
Ion Ratio Lower Upper

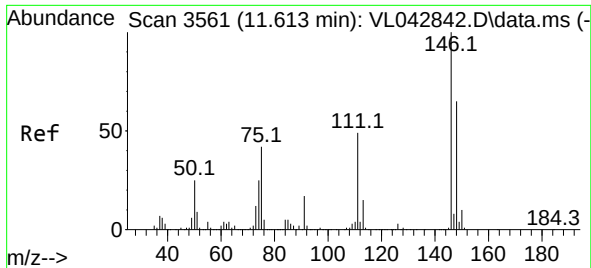
105 100

120 48.3 39.8 59.6

91 62.2 54.2 81.4

77 23.2 19.8 29.6





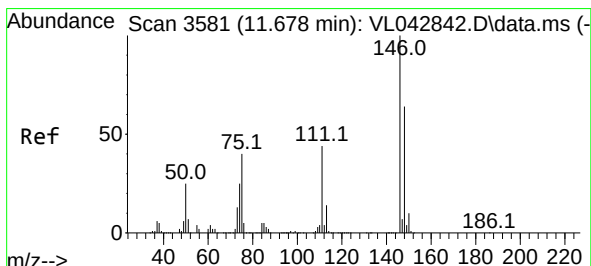
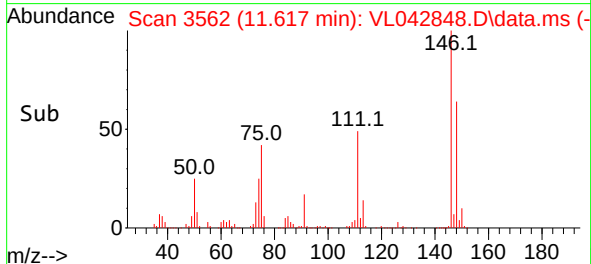
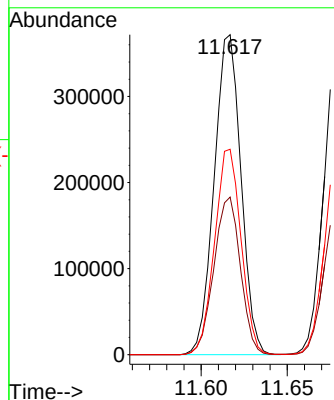
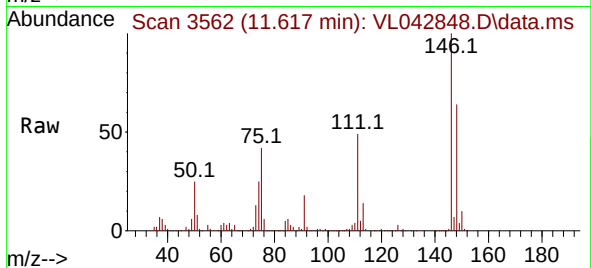
#75  
1,3-Dichlorobenzene  
Concen: 13.321 ppbv  
RT: 11.617 min Scan# 3561  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

Tgt Ion:146 Resp: 402850  
Ion Ratio Lower Upper  
146 100  
111 48.9 23.9 71.7  
148 63.5 31.4 94.0

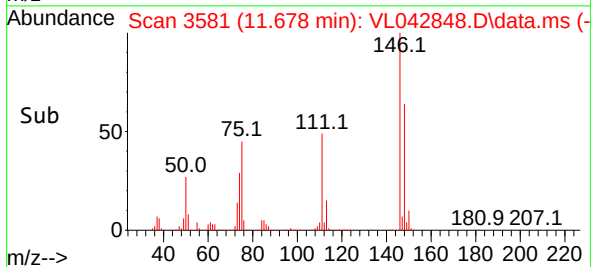
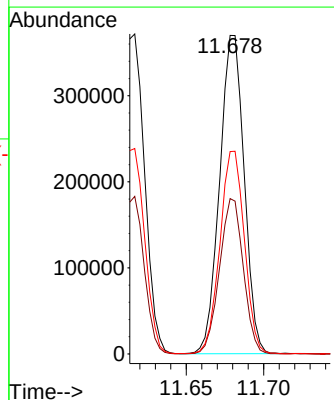
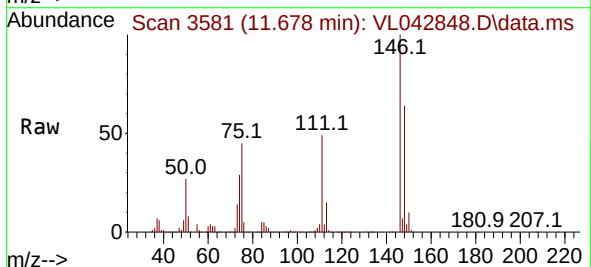
Manual Integrations  
APPROVED

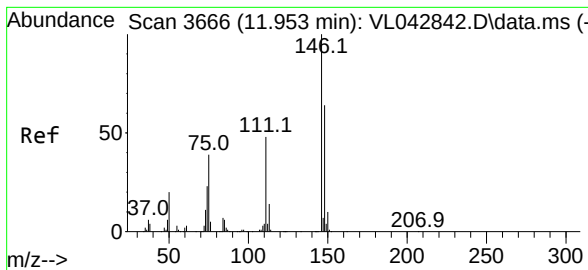
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#76  
1,4-Dichlorobenzene  
Concen: 13.314 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

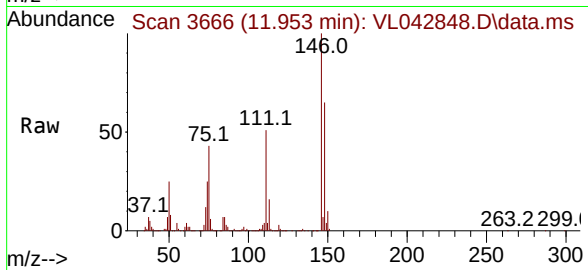
Tgt Ion:146 Resp: 407214  
Ion Ratio Lower Upper  
146 100  
111 47.5 22.7 68.1  
148 63.8 31.8 95.3





#77  
1,2-Dichlorobenzene  
Concen: 13.031 ppbv  
RT: 11.953 min Scan# 3666  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

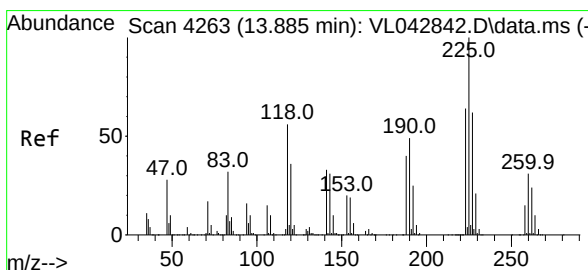
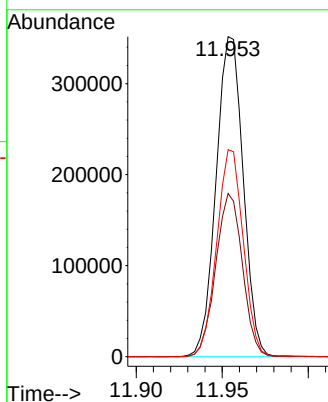
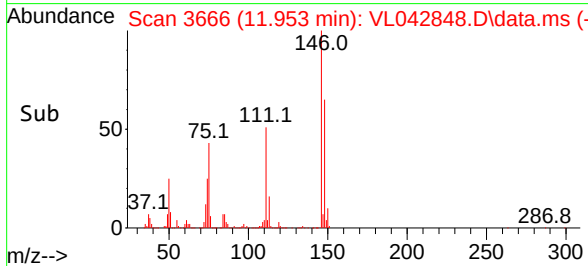
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015



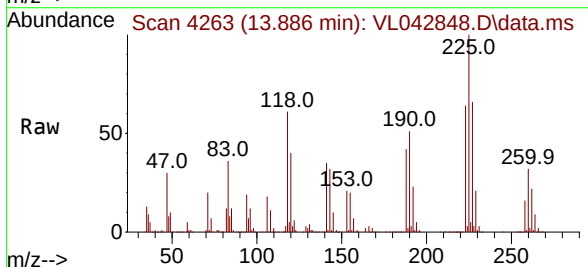
Tgt Ion:146 Resp: 385860  
Ion Ratio Lower Upper  
146 100  
111 50.2 24.6 74.0  
148 63.3 32.0 96.0

Manual Integrations  
APPROVED

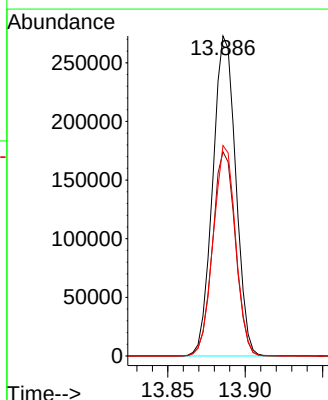
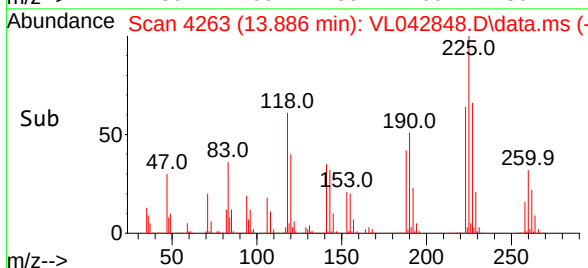
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

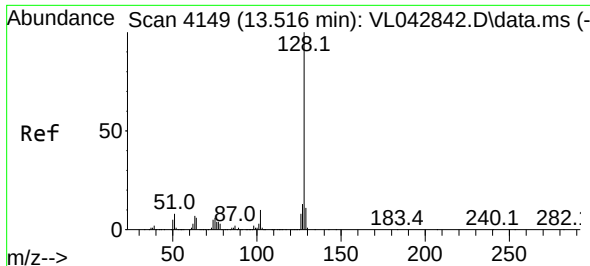


#78  
Hexachloro-1,3-Butadiene  
Concen: 11.602 ppbv  
RT: 13.886 min Scan# 4263  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



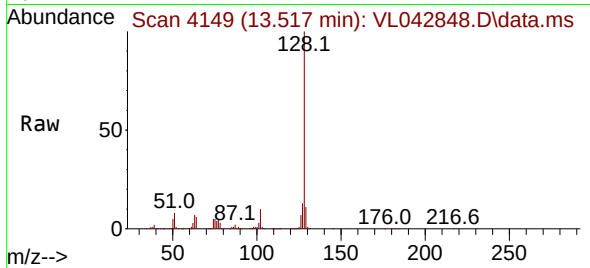
Tgt Ion:225 Resp: 281581  
Ion Ratio Lower Upper  
225 100  
223 63.6 51.4 77.2  
227 64.2 51.9 77.9





#79  
Naphthalene  
Concen: 13.837 ppbv  
RT: 13.517 min Scan# 4149  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

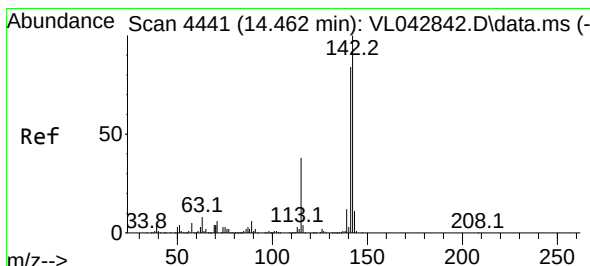
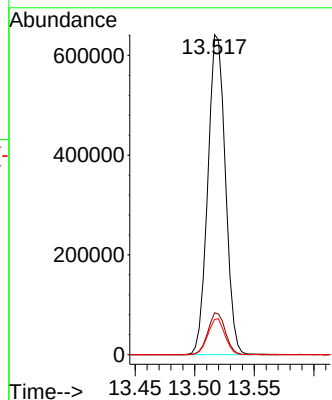
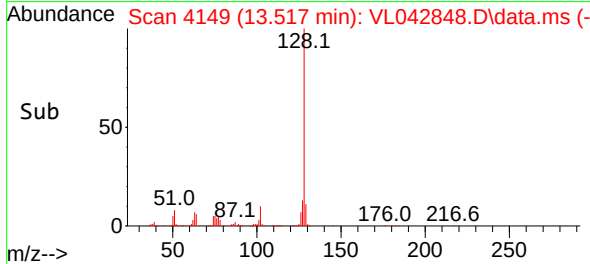
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015



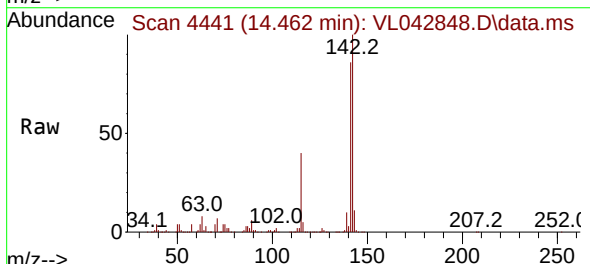
Tgt Ion:128 Resp: 658732  
Ion Ratio Lower Upper  
128 100  
127 13.1 10.6 16.0  
129 11.0 8.9 13.3

Manual Integrations  
APPROVED

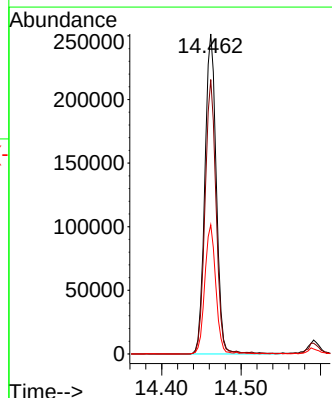
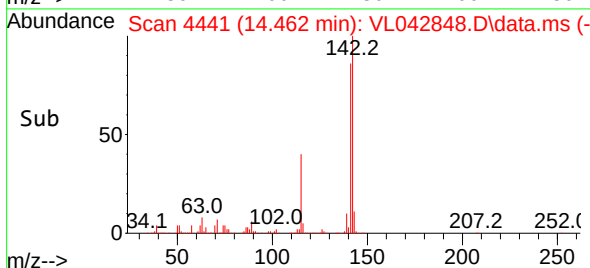
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



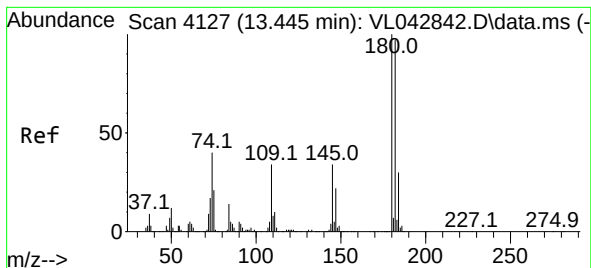
#80  
Naphthalene,2-methyl-  
Concen: 14.042 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06



Tgt Ion:142 Resp: 251753  
Ion Ratio Lower Upper  
142 100  
141 83.9 67.0 100.6  
115 39.3 30.9 46.3







#81

1,2,4-Trichlorobenzene

Concen: 13.599 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042848.D

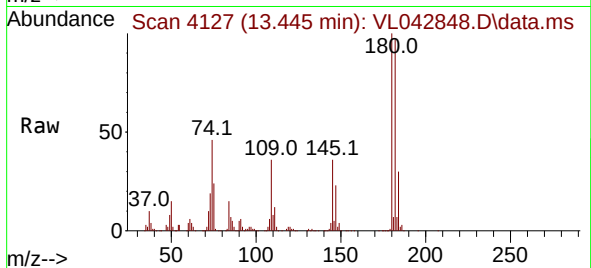
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015

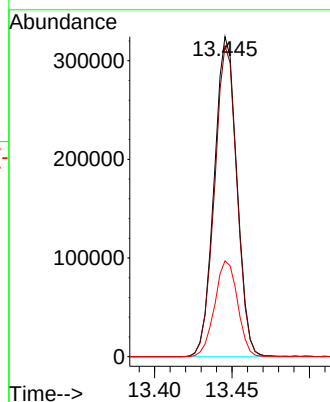
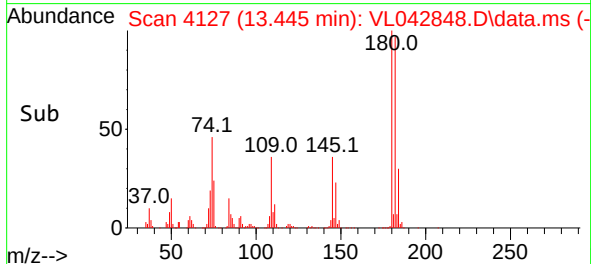


|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 32964      |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 96.2  | 76.9 115.3 |
| 184         | 30.3  | 24.5 36.7  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042849.D  
 Acq On : 13 Aug 2025 12:56  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 14 02:16:09 2025

QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 08/14/2025  
 Supervised By : Mahesh Dadoda 08/18/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.790  | 49    | 122486   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.965  | 114   | 374448   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.891  | 117   | 333493   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.383 | 95    | 252268   | 10.086   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 100.900% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 163446   | 9.105    | ppbv  | 96       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 185078   | 9.327    | ppbv  | 100      |
| 4) Chloromethane              | 1.535  | 50    | 63634    | 8.784    | ppbv  | 100      |
| 5) Vinyl Chloride             | 1.583  | 62    | 58729    | 8.232    | ppbv  | 96       |
| 6) Bromomethane               | 1.670  | 94    | 25105    | 8.801    | ppbv  | 97       |
| 7) Chloroethane               | 1.706  | 64    | 23293    | 8.360    | ppbv  | 98       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 135845   | 9.248    | ppbv  | 99       |
| 9) Propene                    | 1.483  | 41    | 76457    | 8.922    | ppbv  | 97       |
| 10) Heptane                   | 4.988  | 43    | 206333   | 8.990    | ppbv  | 99       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 154211   | 8.707    | ppbv  | 99       |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 124558   | 8.824    | ppbv  | 99       |
| 13) Ethanol                   | 1.722  | 45    | 6016     | 7.678    | ppbv  | 96       |
| 14) Bromoethene               | 1.784  | 108   | 46528    | 9.105    | ppbv  | 98       |
| 15) Acetone                   | 1.839  | 43    | 119723   | 7.389    | ppbv  | 99       |
| 16) 1,3-Butadiene             | 1.612  | 39    | 60853    | 8.285    | ppbv  | 99       |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 166457   | 8.663    | ppbv  | 99       |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 56397    | 9.087    | ppbv  | 94       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 78832    | 8.146    | ppbv  | 98       |
| 20) Methylene Chloride        | 2.065  | 84    | 47793    | 7.041    | ppbv  | 90       |
| 21) Allyl Chloride            | 2.098  | 41    | 102514   | 8.956    | ppbv  | 97       |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96    | 63932    | 8.904    | ppbv  | 95       |
| 23) Vinyl Acetate             | 2.467  | 43    | 198083   | 8.891    | ppbv  | # 97     |
| 24) 1,1-Dichloroethane        | 2.412  | 63    | 127660   | 8.903    | ppbv  | 99       |
| 25) Ethyl Acetate             | 2.839  | 43    | 362325   | 9.240    | ppbv  | 99       |
| 26) Hexane                    | 2.829  | 57    | 167364   | 9.246    | ppbv  | 97       |
| 27) Carbon Disulfide          | 2.153  | 76    | 155729   | 8.841    | ppbv  | 99       |
| 28) Methyl tert-Butyl Ether   | 2.444  | 73    | 82126    | 8.898    | ppbv  | 92       |
| 29) Chloroform                | 2.855  | 83    | 242320   | 9.377    | ppbv  | 99       |
| 30) Cyclohexane               | 3.865  | 84    | 147417   | 9.289    | ppbv  | 99       |
| 31) cis-1,2-Dichloroethene    | 2.726  | 61    | 166268   | 9.196    | ppbv  | 99       |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97    | 252813   | 9.256    | ppbv  | 99       |
| 34) 2-Butanone                | 2.561  | 43    | 230961   | 9.135    | ppbv  | 100      |
| 35) Carbon Tetrachloride      | 3.771  | 117   | 244671   | 9.478    | ppbv  | 95       |
| 36) Benzene                   | 3.664  | 78    | 343952   | 9.592    | ppbv  | 98       |
| 37) 1,2-Dichloroethane        | 3.224  | 62    | 187160   | 9.991    | ppbv  | 100      |
| 38) Trichloroethene           | 4.558  | 130   | 150693   | 9.202    | ppbv  | 96       |
| 39) 1,2-Dichloropropane       | 4.324  | 63    | 123566   | 9.436    | ppbv  | 97       |
| 40) 1,4-Dioxane               | 4.590  | 88    | 55292    | 8.879    | ppbv  | # 93     |
| 41) Tetrahydrofuran           | 3.059  | 42    | 132108   | 9.372    | ppbv  | 99       |
| 42) Bromodichloromethane      | 4.499  | 83    | 270154   | 9.678    | ppbv  | 99       |
| 43) Methyl Methacrylate       | 4.888  | 69    | 136329   | 9.229    | ppbv  | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.648  | 57    | 565415   | 9.290    | ppbv  | 100      |
| 45) t-1,3-Dichloropropene     | 6.428  | 75    | 160784   | 9.645    | ppbv  | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042849.D  
 Acq On : 13 Aug 2025 12:56  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

Quant Time: Aug 14 02:16:09 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

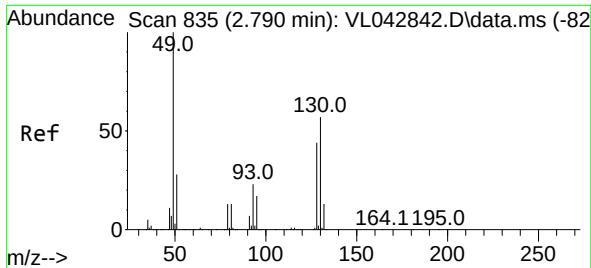
QLast Update : Thu Aug 14 02:12:54 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.613  | 75   | 199988m  | 9.628  | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.597  | 97   | 132548   | 9.553  | ppbv   | 99       |
| 48) Dibromochloromethane      | 7.399  | 129  | 217970   | 9.708  | ppbv   | 100      |
| 49) Bromoform                 | 9.493  | 173  | 174914   | 9.446  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.765  | 43   | 322264   | 9.430  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.445  | 43   | 263321   | 9.791  | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.234  | 164  | 110828   | 8.544  | ppbv   | 89       |
| 53) Toluene                   | 6.946  | 91   | 398138   | 9.340  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 193340   | 9.535  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.937  | 131  | 160225   | 9.291  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.933  | 112  | 297375   | 9.378  | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.364  | 91   | 554015   | 9.414  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.561  | 91   | 865106m  | 18.754 | ppbv   |          |
| 60) o-Xylene                  | 9.972  | 91   | 428721   | 9.239  | ppbv   | 99       |
| 61) Styrene                   | 9.879  | 104  | 203858   | 9.377  | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.549 | 105  | 624287   | 9.206  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 225237   | 8.826  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.998 | 120  | 158234   | 9.145  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.539 | 119  | 534795   | 8.946  | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.623 | 91   | 68533    | 9.031  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.775 | 105  | 762602   | 9.088  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 634670   | 8.810  | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.287 | 91   | 647453   | 9.062  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 485171   | 9.214  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 525262   | 9.338  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 435705   | 9.108  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 469573   | 8.943  | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 274876   | 9.209  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 270976   | 8.976  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 255347   | 8.736  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 186318   | 7.778  | ppbv   | 97       |
| 79) Naphthalene               | 13.520 | 128  | 441940   | 9.284  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 145644   | 8.188  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 215715   | 9.016  | ppbv   | 99       |

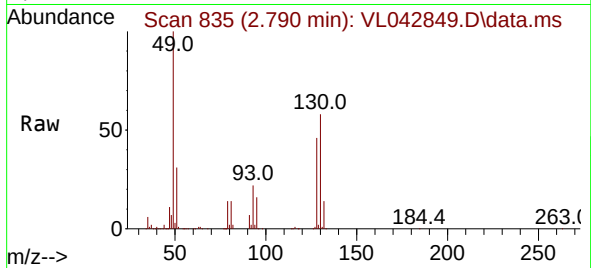
(#) = qualifier out of range (m) = manual integration (+) = signals summed





#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

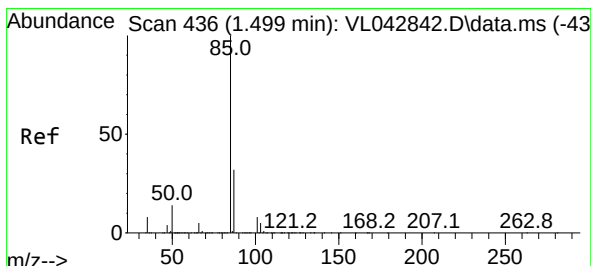
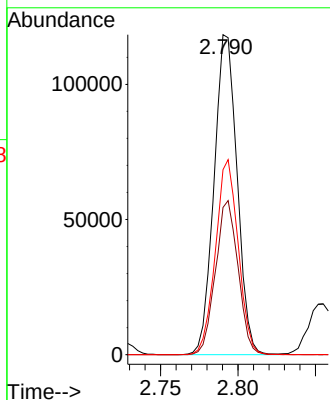
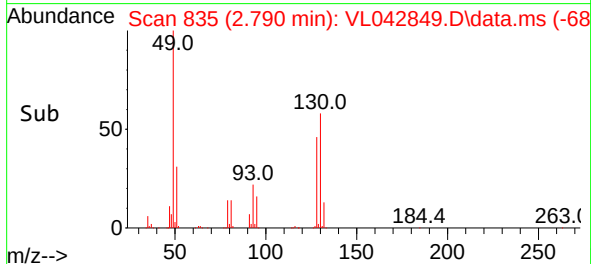
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



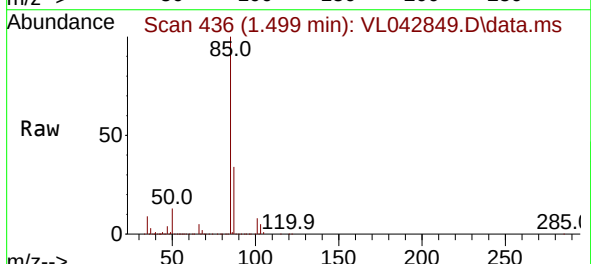
Tgt Ion: 49 Resp: 122486  
Ion Ratio Lower Upper  
49 100  
128 47.2 23.7 71.1  
130 60.0 30.6 91.6

Manual Integrations  
APPROVED

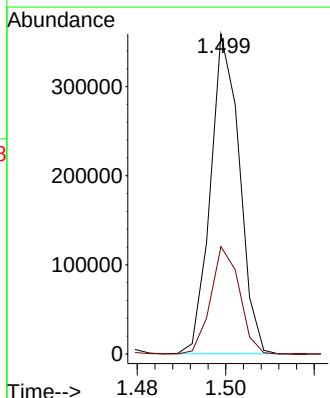
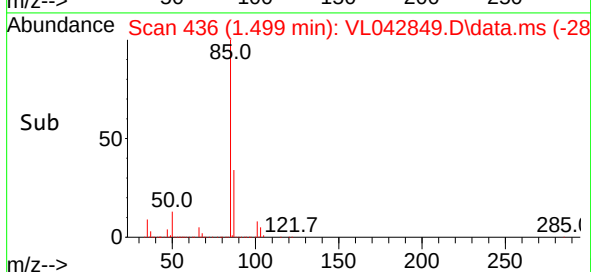
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

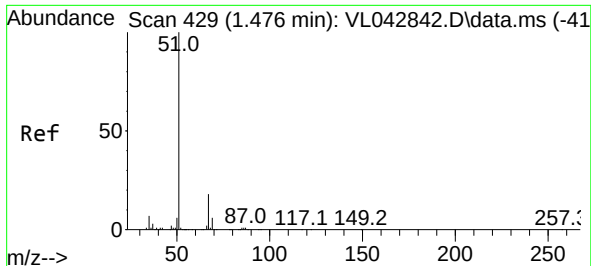


#2  
Dichlorodifluoromethane  
Concen: 9.105 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



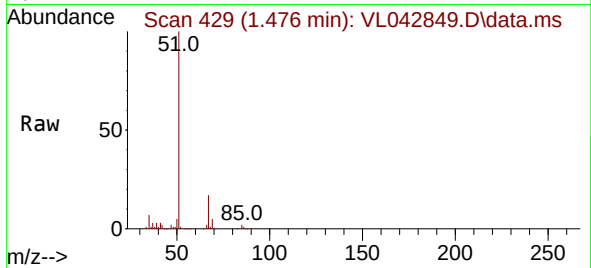
Tgt Ion: 85 Resp: 163446  
Ion Ratio Lower Upper  
85 100  
87 33.6 25.3 37.9





#3  
Chlorodifluoromethane  
Concen: 9.327 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

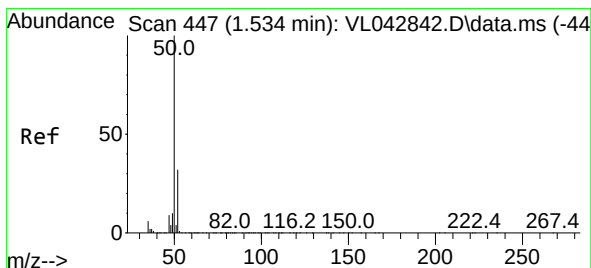
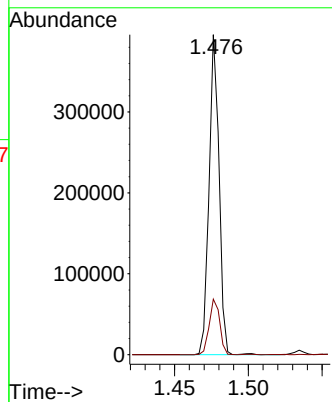
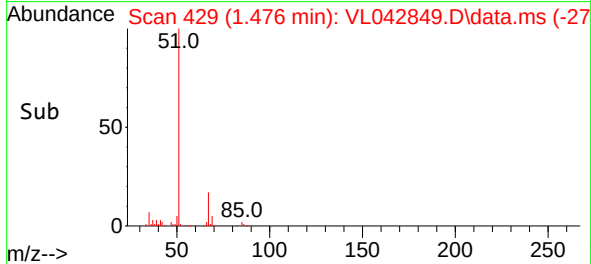
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



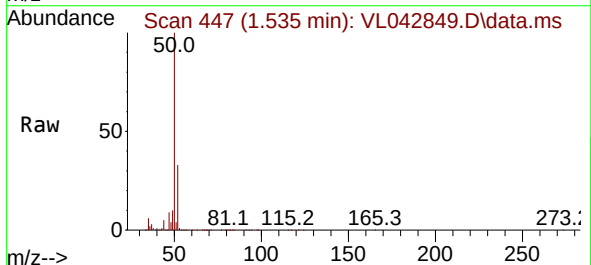
Tgt Ion: 51 Resp: 185078  
Ion Ratio Lower Upper  
51 100  
67 18.6 14.9 22.3

Manual Integrations  
APPROVED

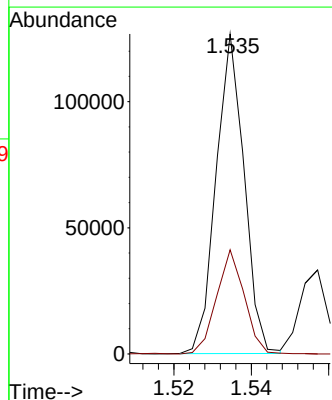
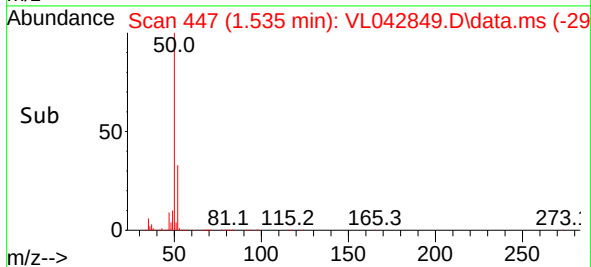
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

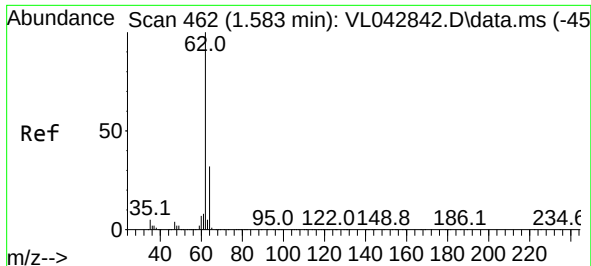


#4  
Chloromethane  
Concen: 8.784 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



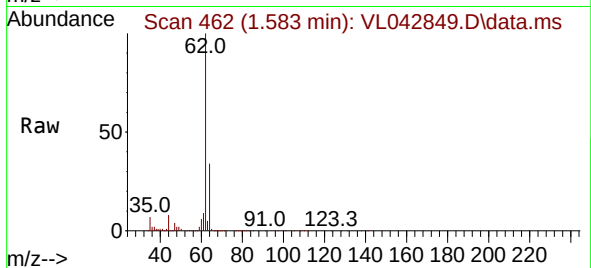
Tgt Ion: 50 Resp: 63634  
Ion Ratio Lower Upper  
50 100  
52 32.6 25.9 38.9





#5  
 Vinyl Chloride  
 Concen: 8.232 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

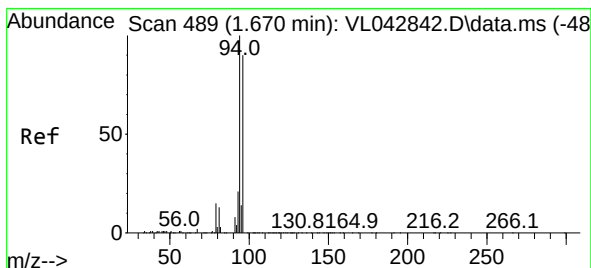
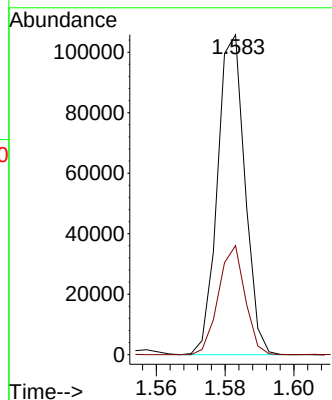
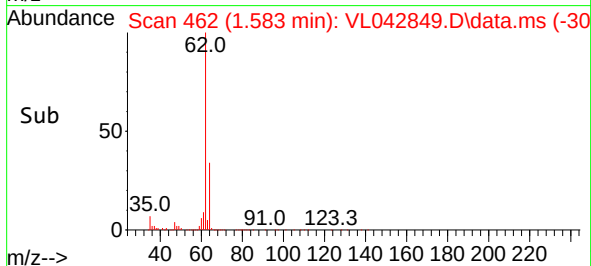
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325



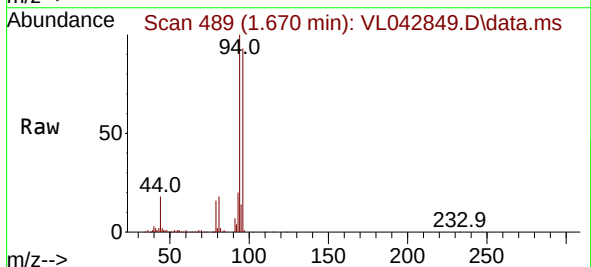
Tgt Ion: 62 Resp: 58729  
 Ion Ratio Lower Upper  
 62 100  
 64 34.1 25.4 38.2

Manual Integrations  
 APPROVED

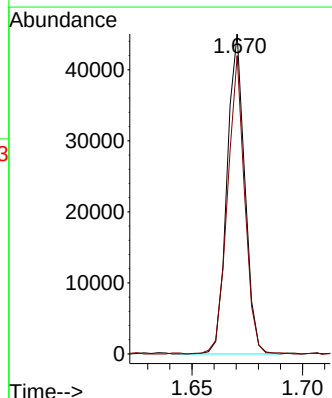
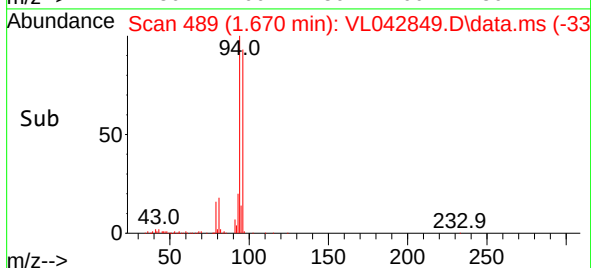
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

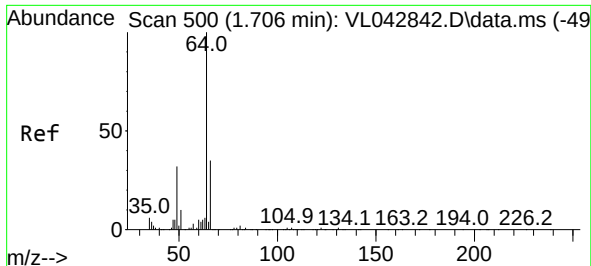


#6  
 Bromomethane  
 Concen: 8.801 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56



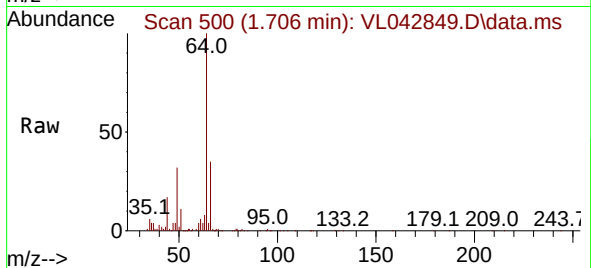
Tgt Ion: 94 Resp: 25105  
 Ion Ratio Lower Upper  
 94 100  
 96 92.9 72.1 108.1





#7  
Chloroethane  
Concen: 8.360 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

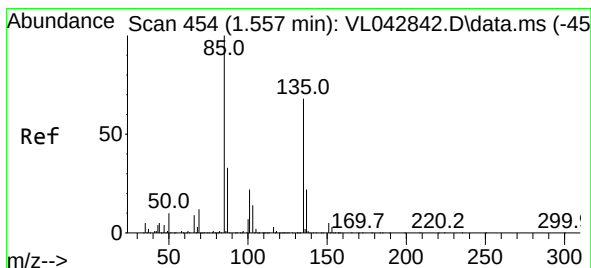
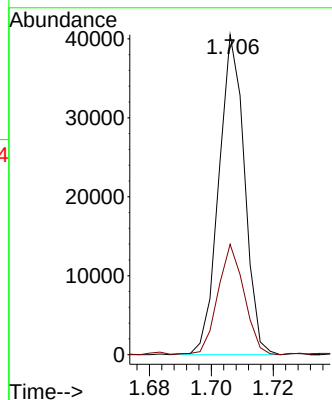
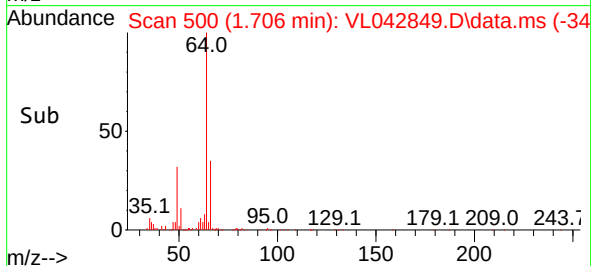
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



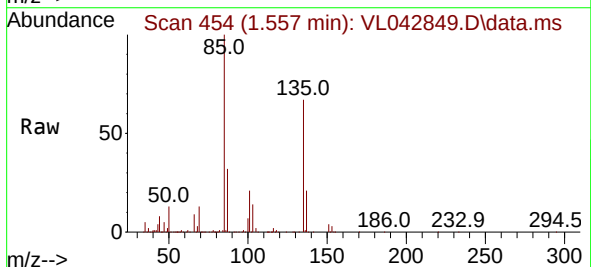
Tgt Ion: 64 Resp: 2329  
Ion Ratio Lower Upper  
64 100  
66 34.5 28.6 42.8

Manual Integrations  
APPROVED

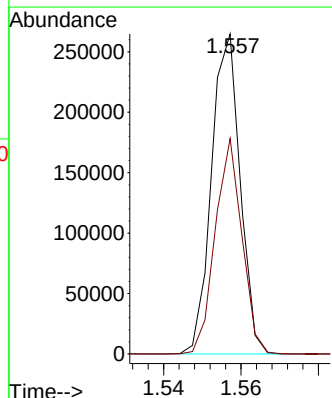
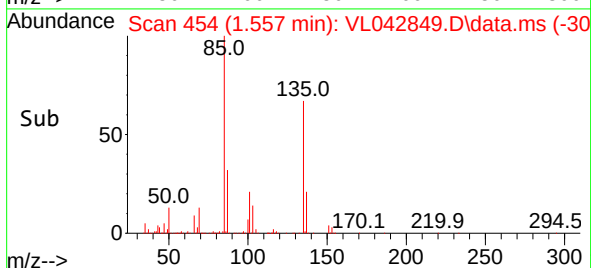
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



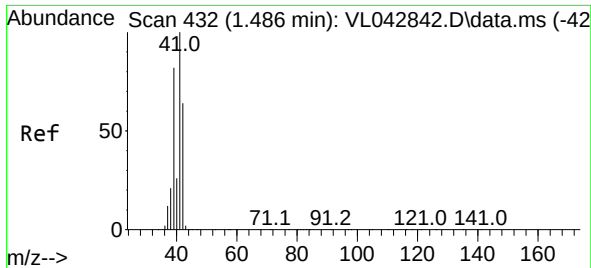
#8  
Dichlorotetrafluoroethane  
Concen: 9.248 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



Tgt Ion: 85 Resp: 135845  
Ion Ratio Lower Upper  
85 100  
135 62.9 51.2 76.8

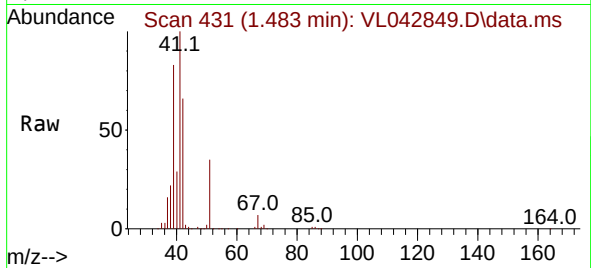






#9  
 Propene  
 Concen: 8.922 ppbv  
 RT: 1.483 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

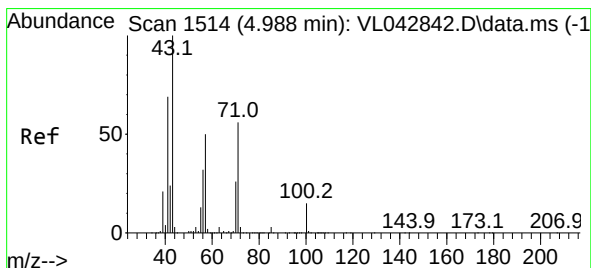
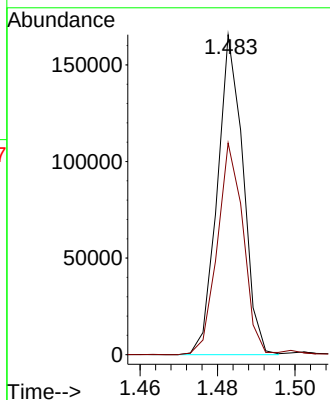
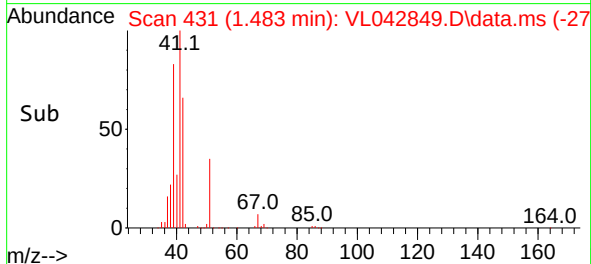
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325



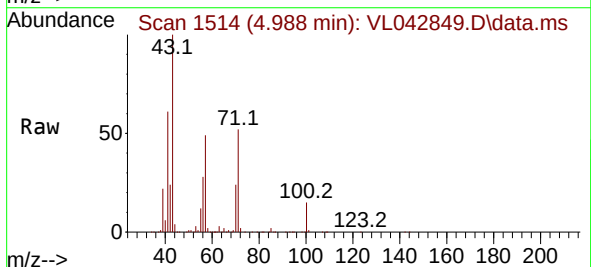
Tgt Ion: 41 Resp: 7645  
 Ion Ratio Lower Upper  
 41 100  
 42 68.4 53.0 79.4

Manual Integrations  
 APPROVED

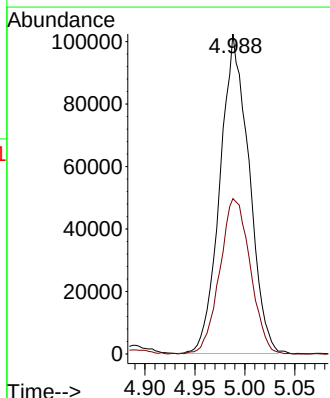
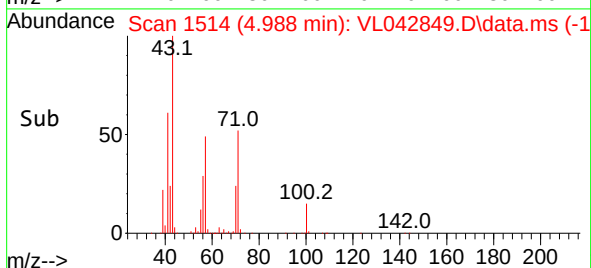
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

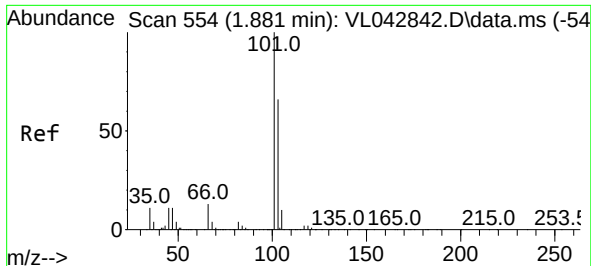


#10  
 Heptane  
 Concen: 8.990 ppbv  
 RT: 4.988 min Scan# 1514  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56



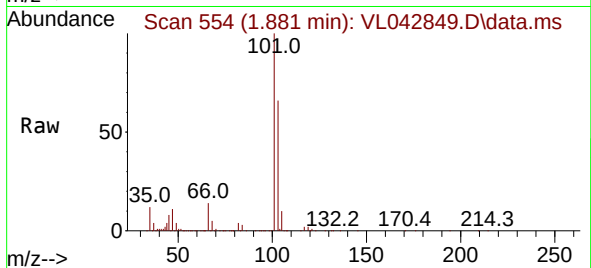
Tgt Ion: 43 Resp: 206333  
 Ion Ratio Lower Upper  
 43 100  
 57 51.2 41.4 62.0





#11  
Trichlorofluoromethane  
Concen: 8.707 ppbv  
RT: 1.881 min Scan# 554  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

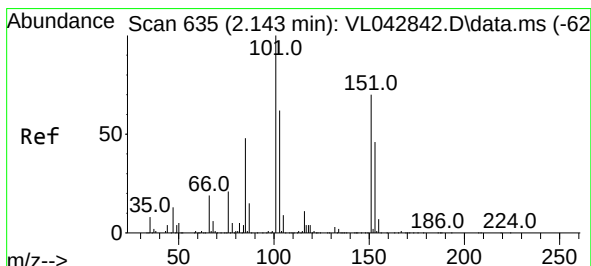
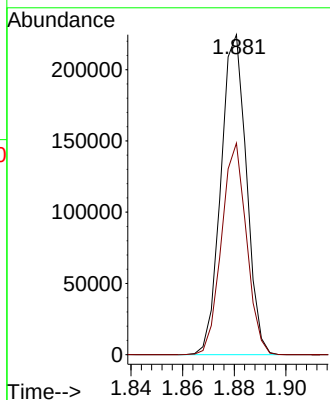
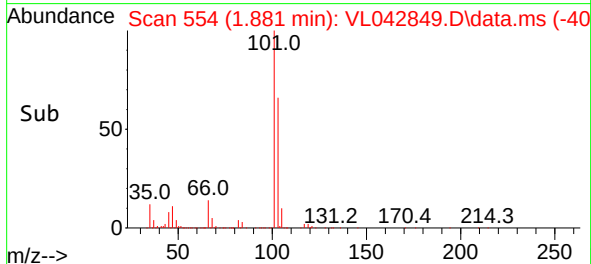
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



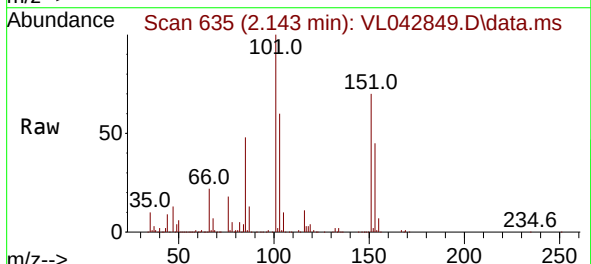
Tgt Ion:101 Resp: 15421  
Ion Ratio Lower Upper  
101 100  
103 66.1 52.5 78.7

Manual Integrations  
APPROVED

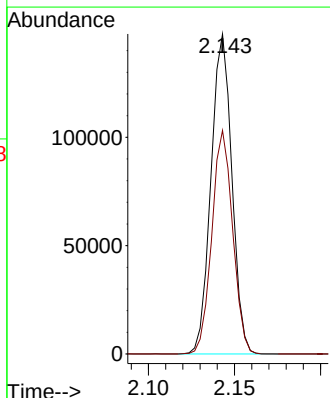
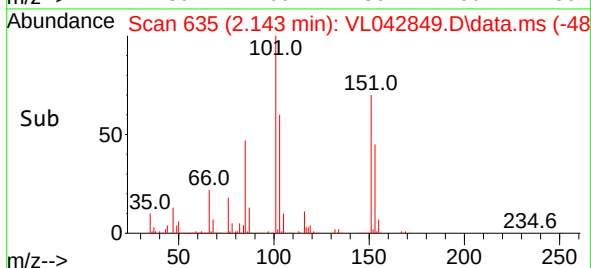
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

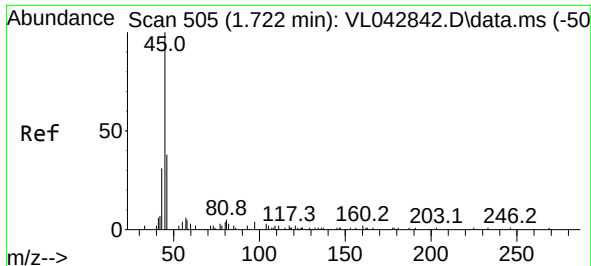


#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 8.824 ppbv  
RT: 2.143 min Scan# 635  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



Tgt Ion:101 Resp: 124558  
Ion Ratio Lower Upper  
101 100  
151 69.7 56.4 84.6





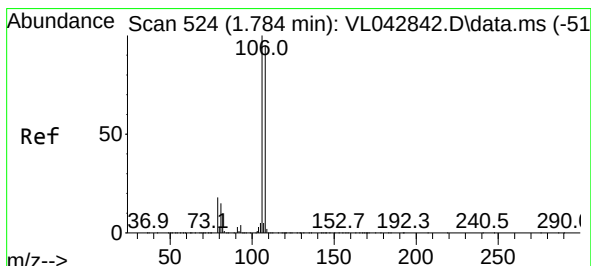
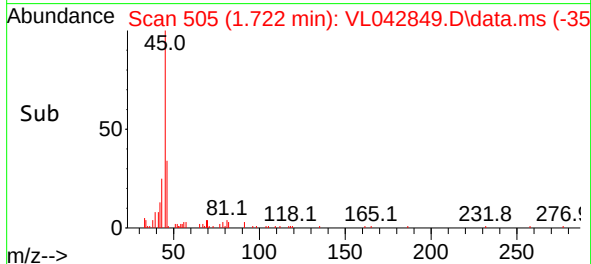
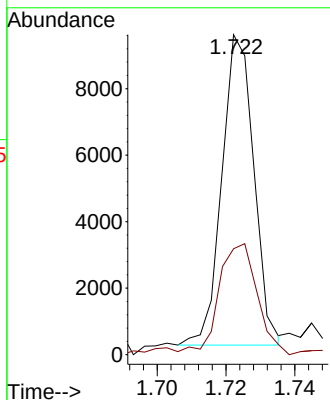
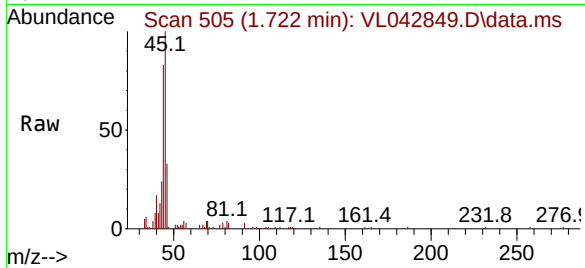
#13  
Ethanol  
Concen: 7.678 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

Tgt Ion: 45 Resp: 6010  
Ion Ratio Lower Upper  
45 100  
46 46.2 17.5 69.9

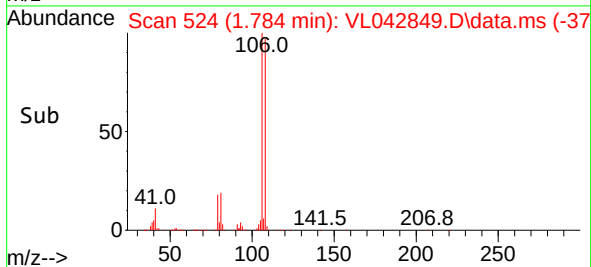
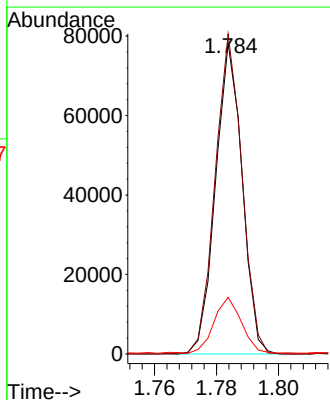
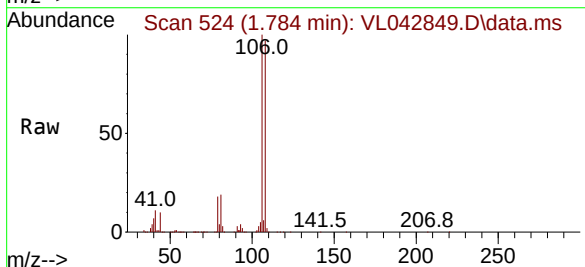
Manual Integrations  
APPROVED

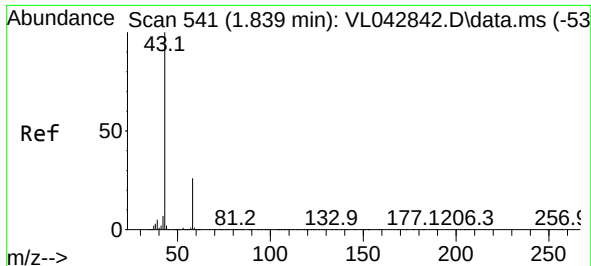
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#14  
Bromoethene  
Concen: 9.105 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

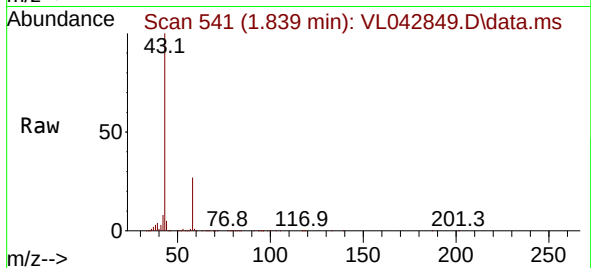
Tgt Ion:108 Resp: 46528  
Ion Ratio Lower Upper  
108 100  
106 104.1 85.1 127.7  
79 19.8 16.3 24.5





#15  
Acetone  
Concen: 7.389 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

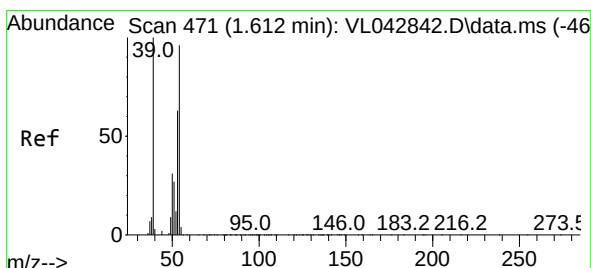
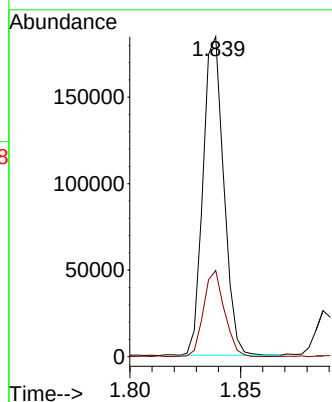
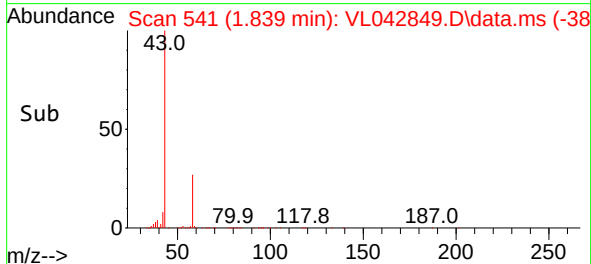
Instrument : MSVOA\_L  
ClientSampleId : ICVVL081325



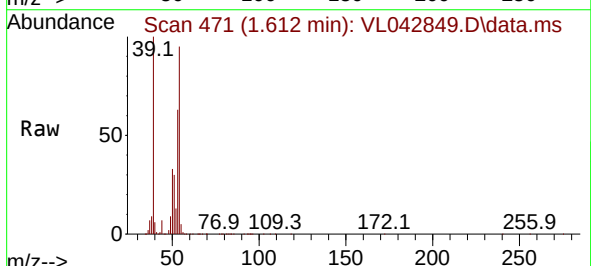
Tgt Ion: 43 Resp: 119723  
Ion Ratio Lower Upper  
43 100  
58 27.6 22.4 33.6

Manual Integrations  
APPROVED

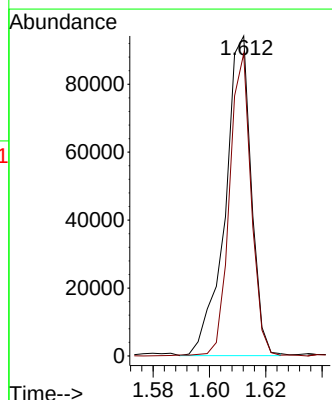
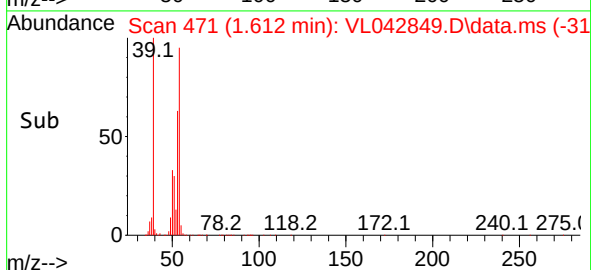
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

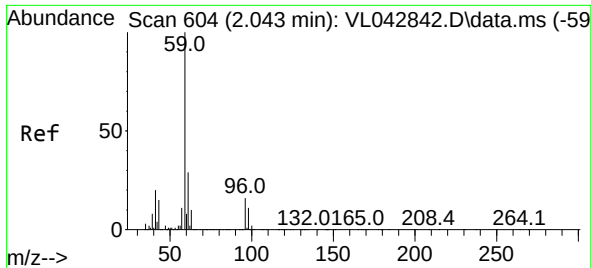


#16  
1,3-Butadiene  
Concen: 8.285 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



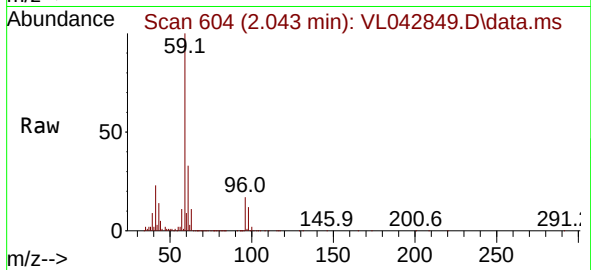
Tgt Ion: 39 Resp: 60853  
Ion Ratio Lower Upper  
39 100  
54 78.9 63.6 95.4





#17  
 tert-Butyl alcohol  
 Concen: 8.663 ppbv  
 RT: 2.043 min Scan# 604  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

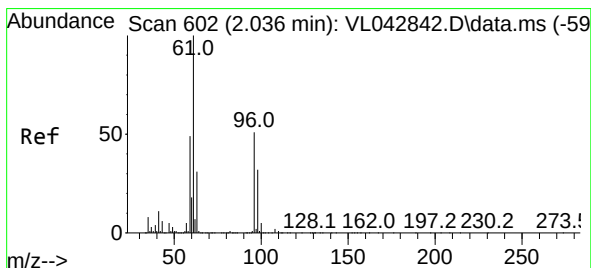
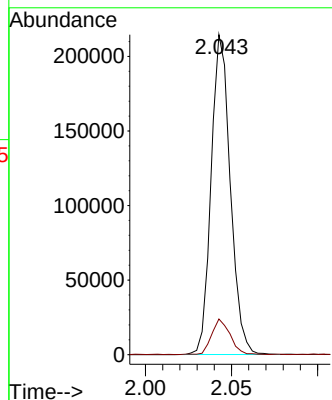
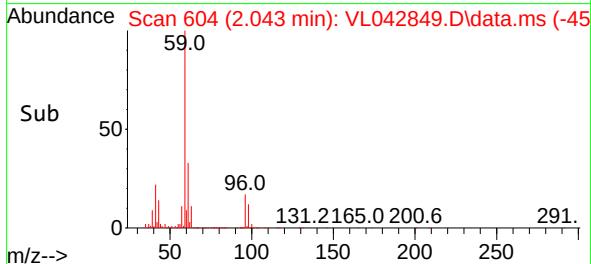
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325



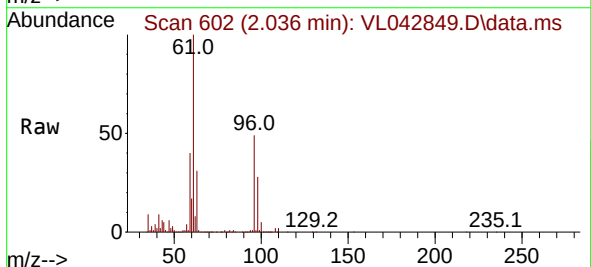
Tgt Ion: 59 Resp: 16645  
 Ion Ratio Lower Upper  
 59 100  
 57 10.7 9.0 13.4

Manual Integrations  
 APPROVED

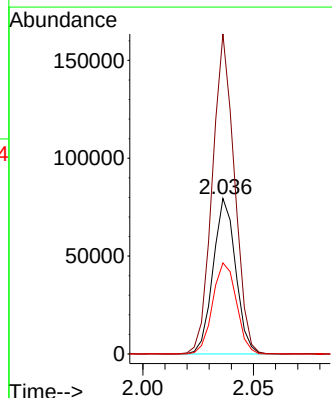
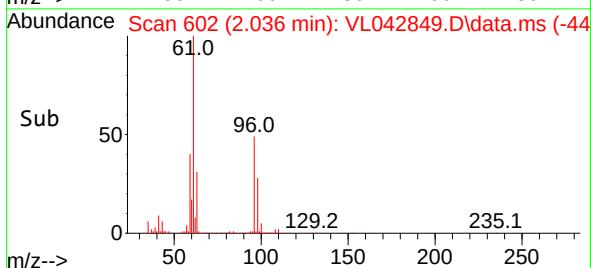
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

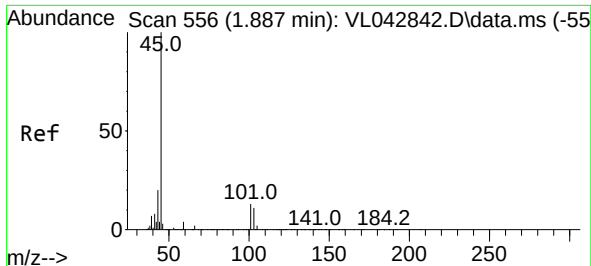


#18  
 1,1-Dichloroethene  
 Concen: 9.087 ppbv  
 RT: 2.036 min Scan# 602  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56



Tgt Ion: 96 Resp: 56397  
 Ion Ratio Lower Upper  
 96 100  
 61 205.8 158.2 237.4  
 98 58.5 50.6 76.0





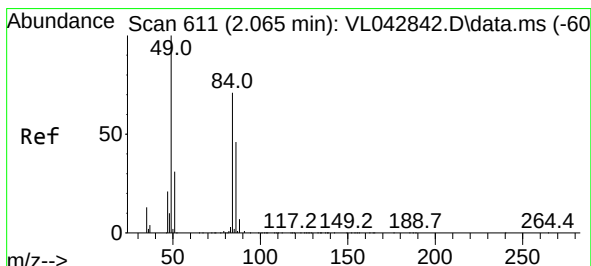
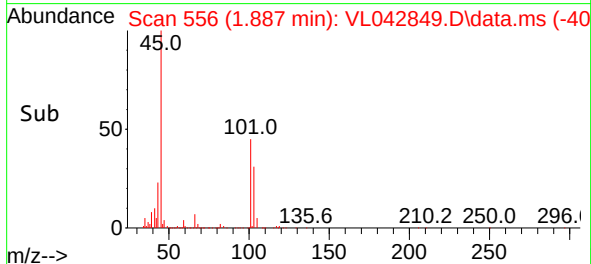
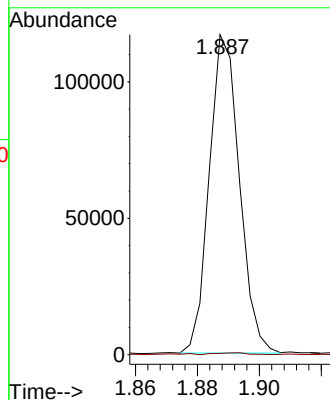
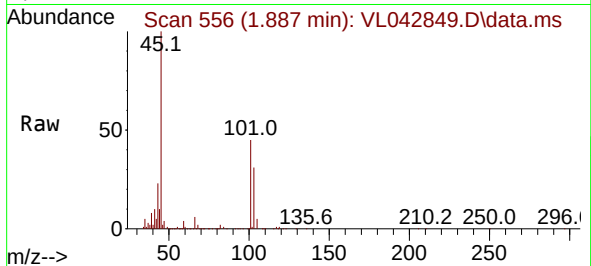
#19  
Isopropyl Alcohol  
Concen: 8.146 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

Tgt Ion: 45 Resp: 7883  
Ion Ratio Lower Upper  
45 100  
58 42.0 32.7 49.1

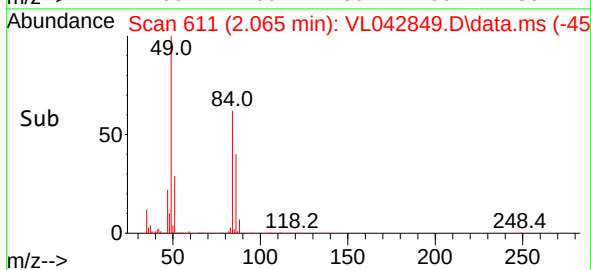
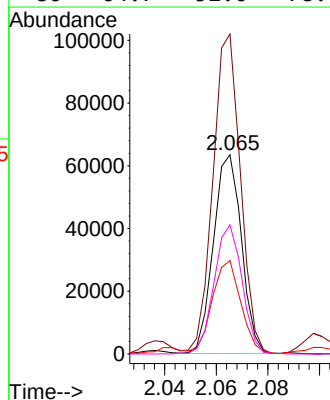
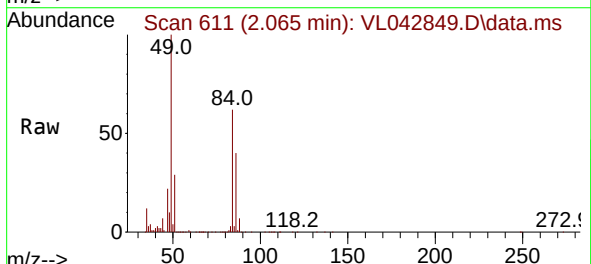
Manual Integrations  
APPROVED

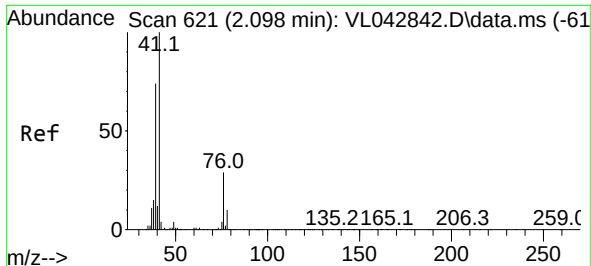
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#20  
Methylene Chloride  
Concen: 7.041 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

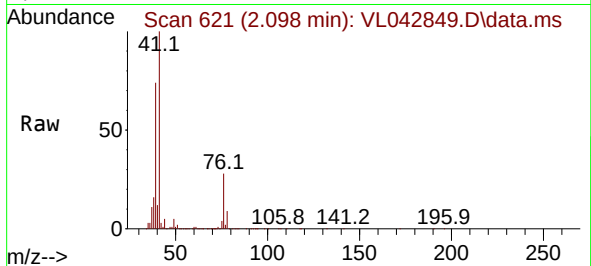
Tgt Ion: 84 Resp: 47793  
Ion Ratio Lower Upper  
84 100  
49 160.7 112.3 168.5  
51 46.9 36.0 54.0  
86 64.7 52.0 78.0





#21  
 Allyl Chloride  
 Concen: 8.956 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

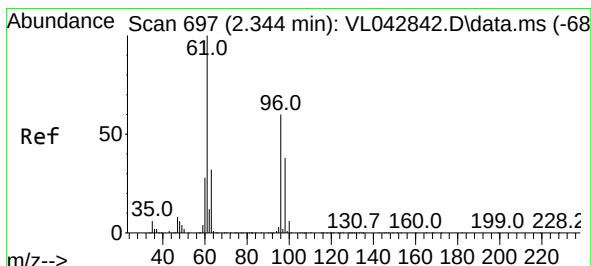
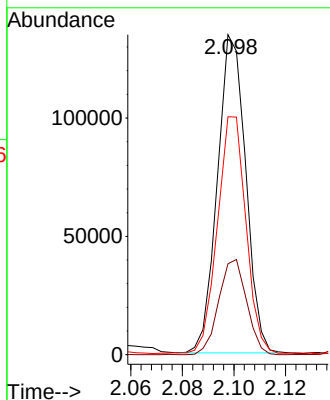
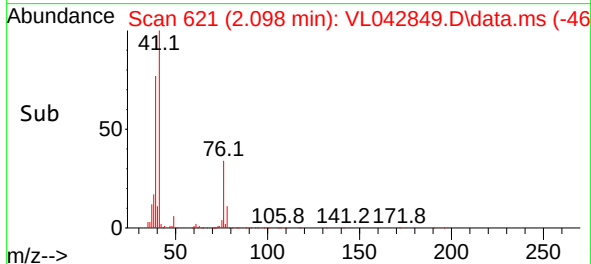
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325



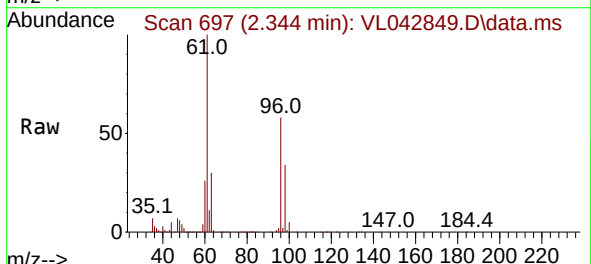
Tgt Ion: 41 Resp: 102514  
 Ion Ratio Lower Upper  
 41 100  
 76 29.5 23.9 35.9  
 39 76.1 57.8 86.6

Manual Integrations  
 APPROVED

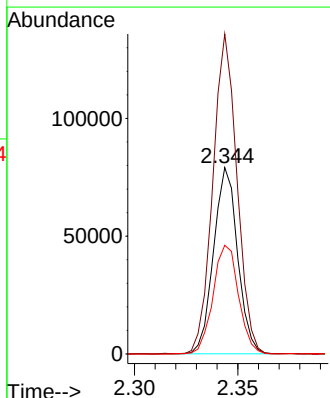
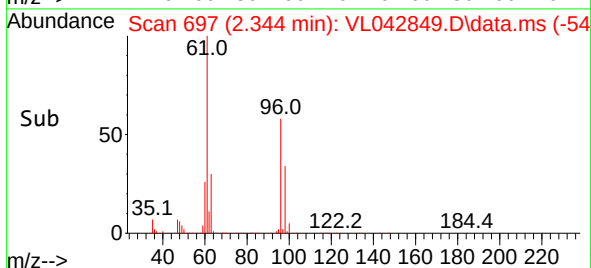
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

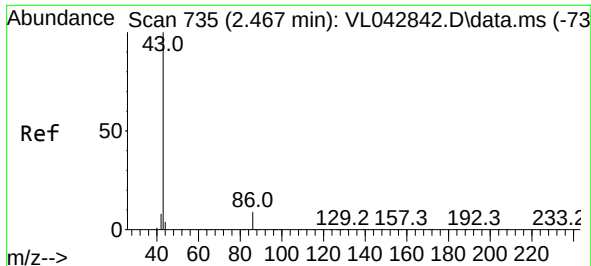


#22  
 trans-1,2-Dichloroethene  
 Concen: 8.904 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56



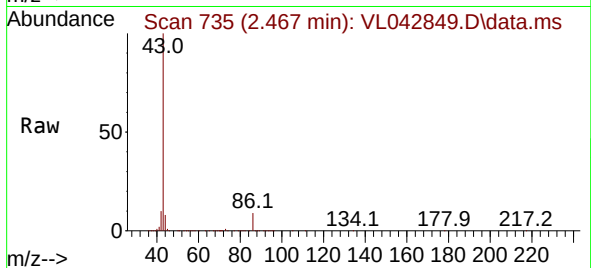
Tgt Ion: 96 Resp: 63932  
 Ion Ratio Lower Upper  
 96 100  
 61 171.8 132.6 199.0  
 98 58.3 50.0 75.0





#23  
 Vinyl Acetate  
 Concen: 8.891 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

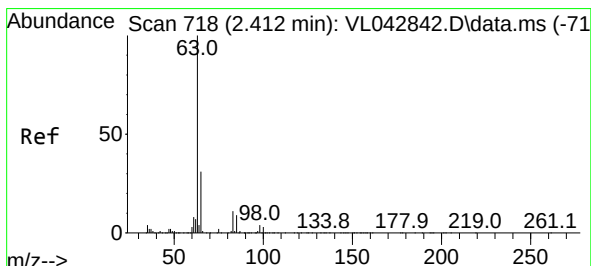
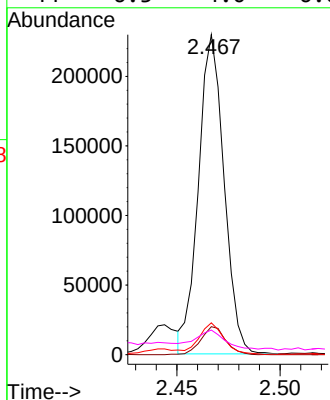
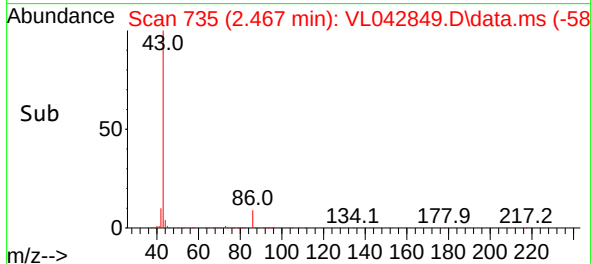
Instrument : MSVOA\_1  
 ClientSampleId : ICVVL081325



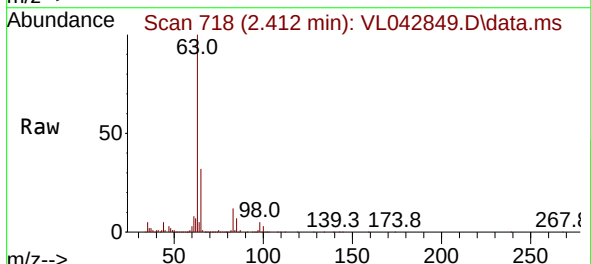
| Tgt Ion:  | 43  | Resp: | 19808 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 86        | 8.8 | 6.6   | 9.8   |
| 42        | 9.8 | 7.0   | 10.6  |
| 44        | 6.3 | 4.0   | 6.0   |

Manual Integrations  
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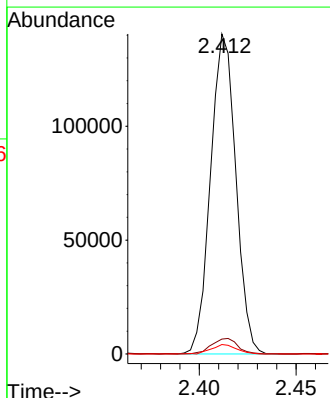
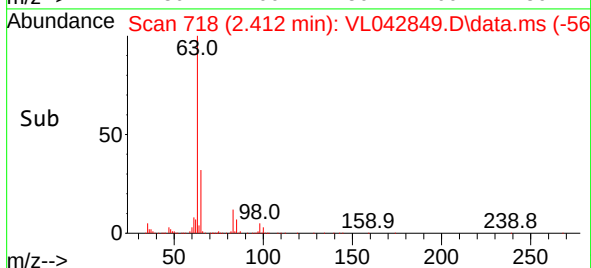
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



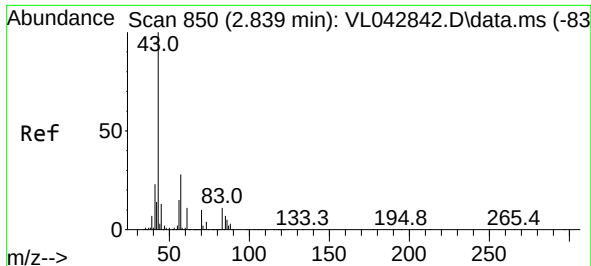
#24  
 1,1-Dichloroethane  
 Concen: 8.903 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56



| Tgt Ion:  | 63  | Resp: | 127660 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 98        | 4.6 | 2.1   | 6.5    |
| 100       | 3.0 | 1.7   | 5.1    |

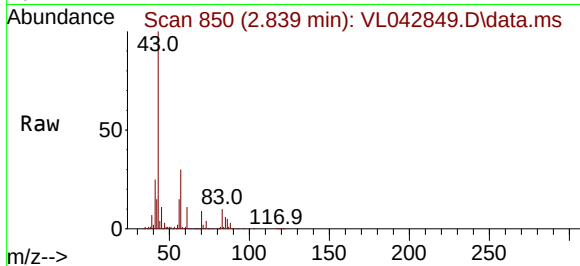






#25  
Ethyl Acetate  
Concen: 9.240 ppbv  
RT: 2.839 min Scan# 850  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

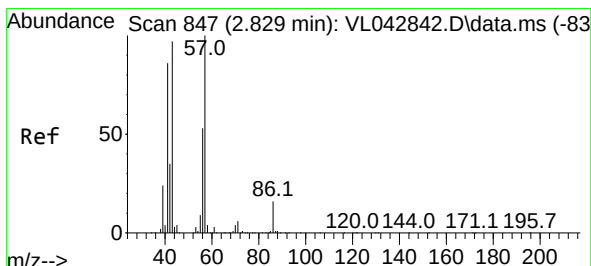
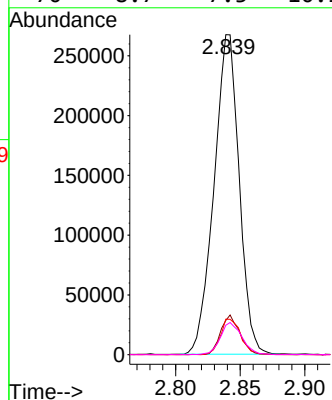
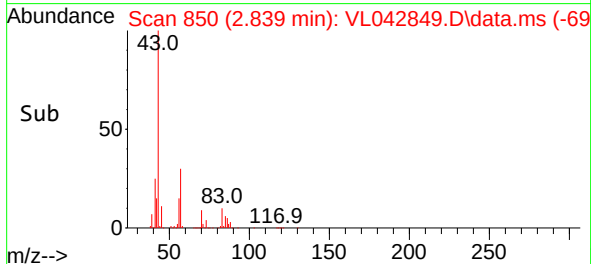
Instrument : MSVOA\_L  
ClientSampleId : ICVVL081325



| Tgt Ion:  | 43  | Resp: | 36232 |
|-----------|-----|-------|-------|
| Ion Ratio | 100 | Lower | Upper |
| 45        | 9.5 | 8.1   | 12.1  |
| 61        | 9.1 | 7.4   | 11.2  |
| 70        | 8.7 | 7.3   | 10.9  |

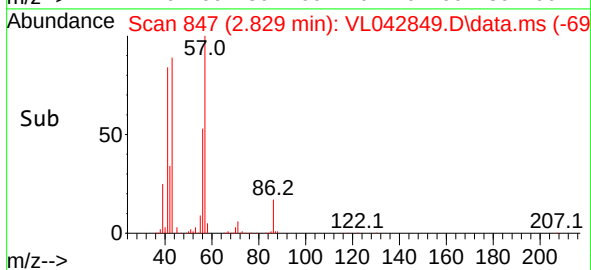
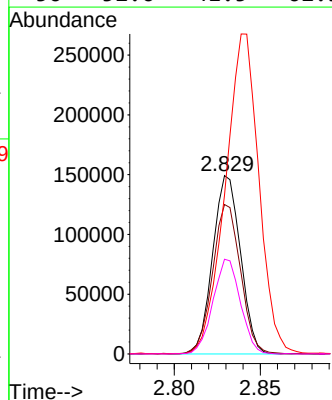
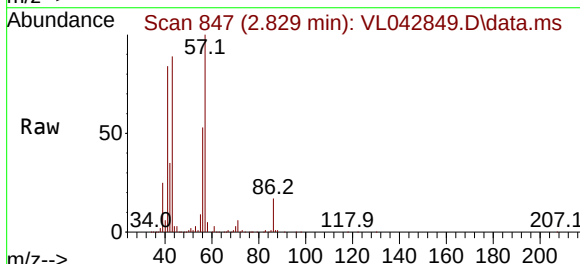
Manual Integrations  
APPROVED

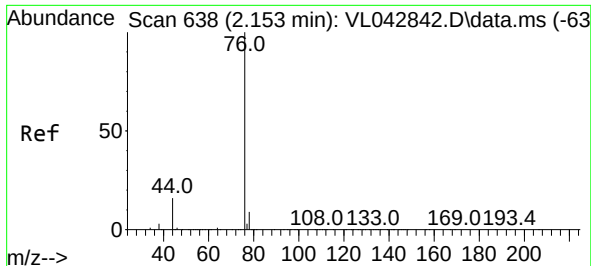
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#26  
Hexane  
Concen: 9.246 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

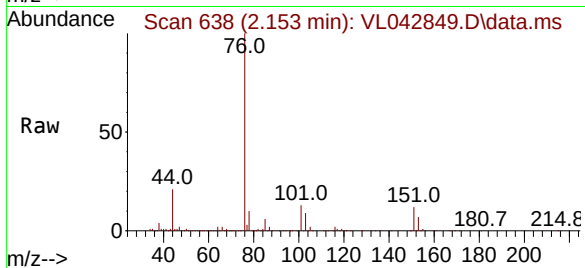
| Tgt Ion:  | 57    | Resp: | 167364 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 41        | 85.0  | 68.6  | 103.0  |
| 43        | 218.2 | 168.5 | 252.7  |
| 56        | 52.6  | 41.5  | 62.3   |





#27  
Carbon Disulfide  
Concen: 8.841 ppbv  
RT: 2.153 min Scan# 638  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

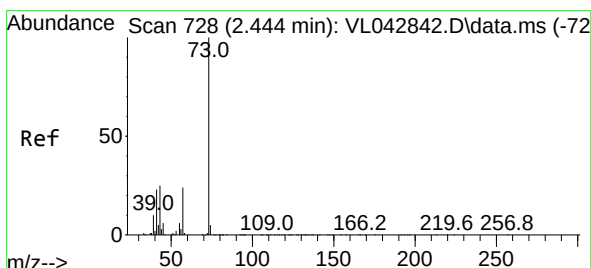
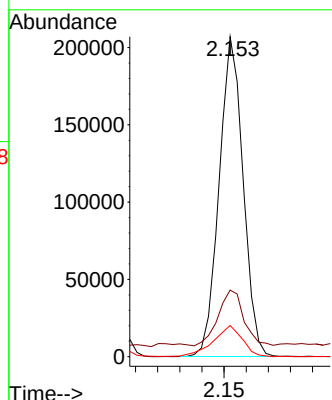
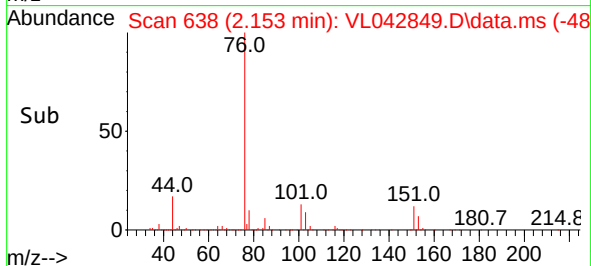
Instrument : MSVOA\_L  
ClientSampleId : ICVVL081325



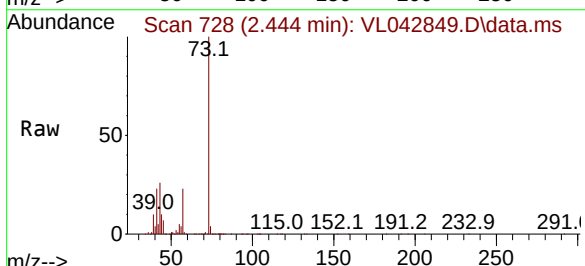
Tgt Ion: 76 Resp: 155729  
Ion Ratio Lower Upper  
76 100  
44 19.2 15.9 23.9  
78 11.9 9.5 14.3

Manual Integrations  
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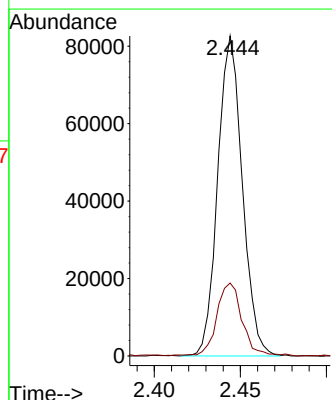
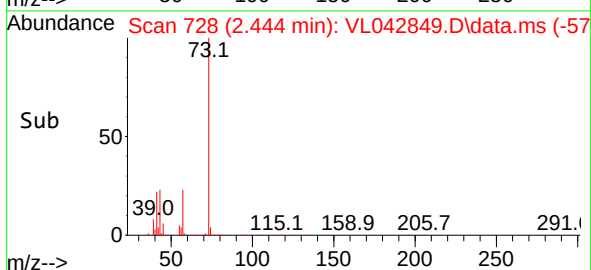
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

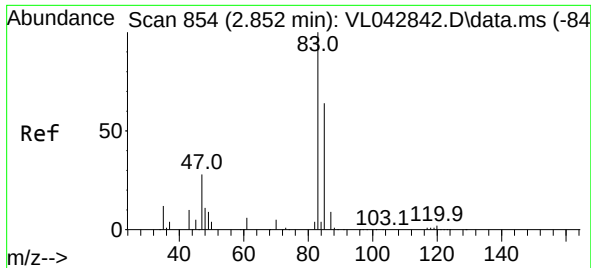


#28  
Methyl tert-Butyl Ether  
Concen: 8.898 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



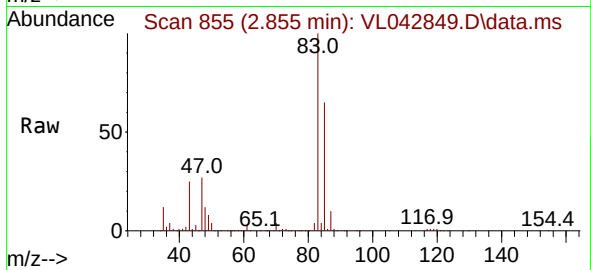
Tgt Ion: 73 Resp: 82126  
Ion Ratio Lower Upper  
73 100  
57 22.9 21.6 32.4





#29  
Chloroform  
Concen: 9.377 ppbv  
RT: 2.855 min Scan# 855  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

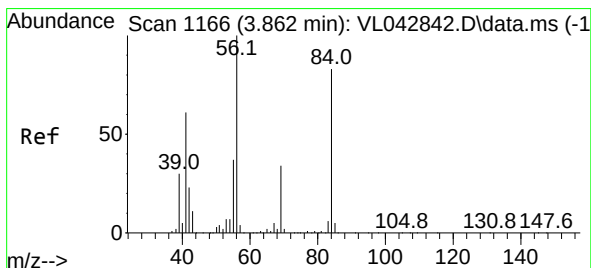
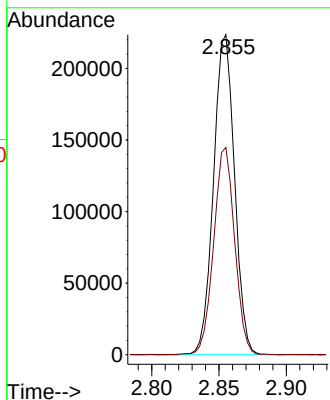
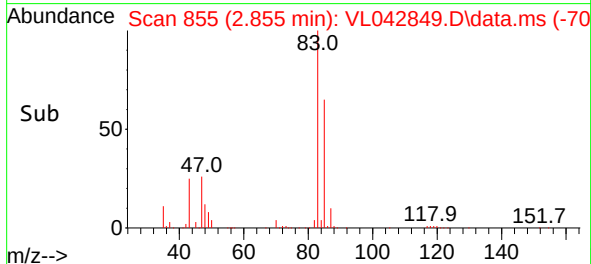
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



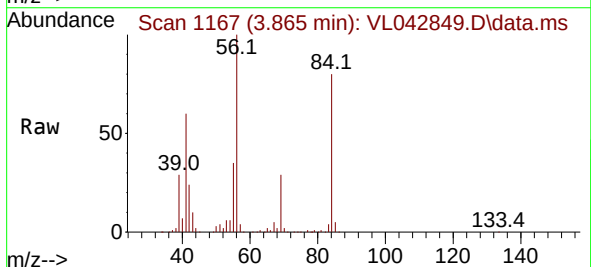
Tgt Ion: 83 Resp: 242320  
Ion Ratio Lower Upper  
83 100  
85 64.8 51.1 76.7

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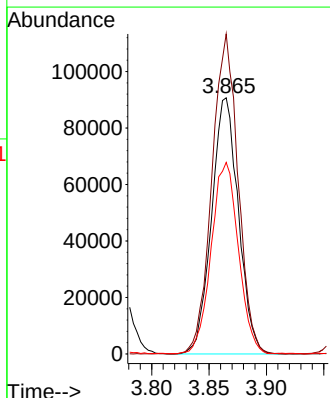
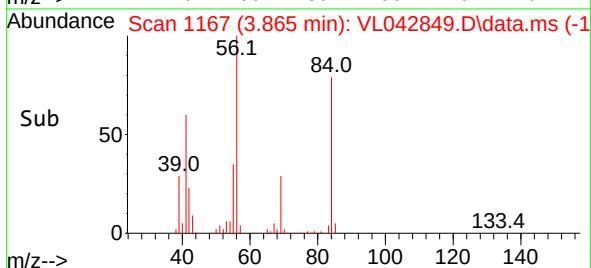
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

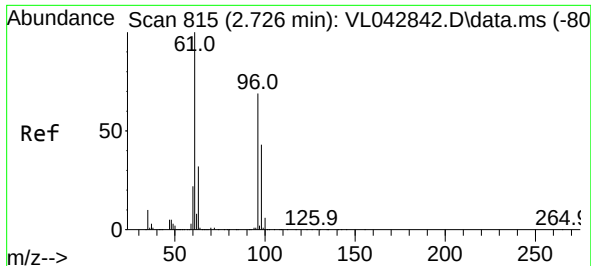


#30  
Cyclohexane  
Concen: 9.289 ppbv  
RT: 3.865 min Scan# 1167  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



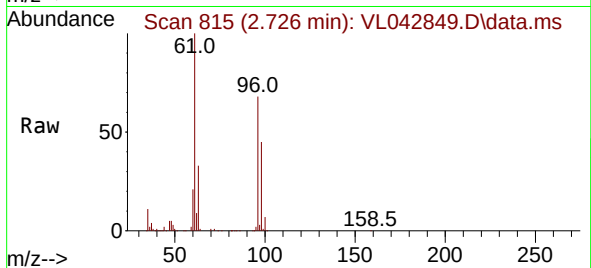
Tgt Ion: 84 Resp: 147417  
Ion Ratio Lower Upper  
84 100  
56 122.1 98.8 148.2  
41 75.8 61.3 91.9





#31  
 cis-1,2-Dichloroethene  
 Concen: 9.196 ppbv  
 RT: 2.726 min Scan# 815  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

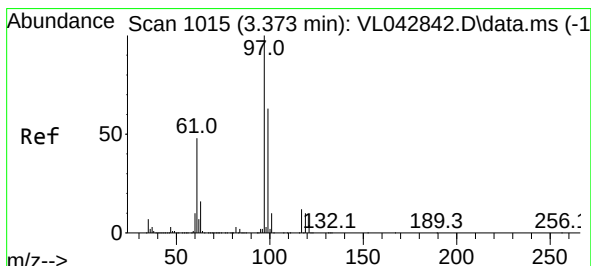
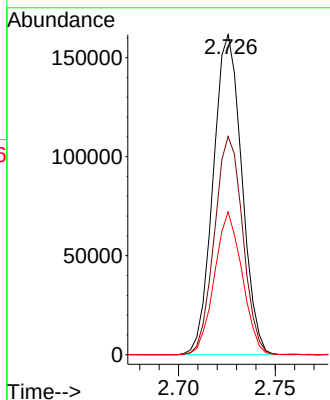
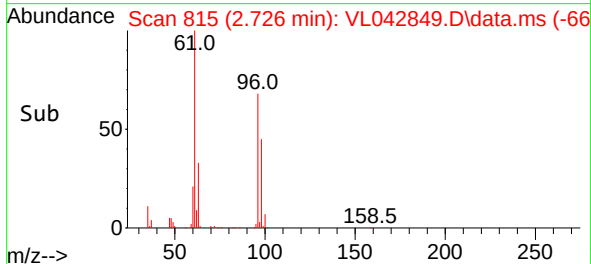
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325



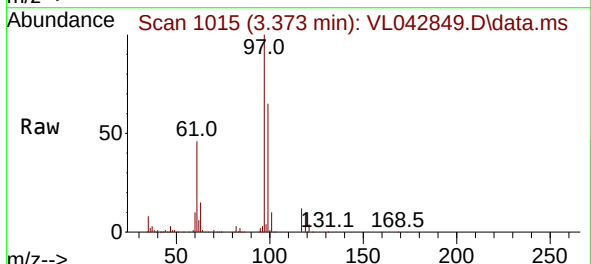
Tgt Ion: 61 Resp: 166268  
 Ion Ratio Lower Upper  
 61 100  
 96 68.2 55.0 82.6  
 98 44.5 34.3 51.5

Manual Integrations  
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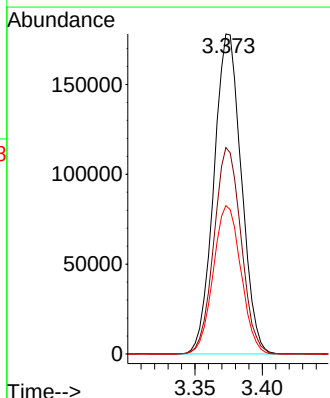
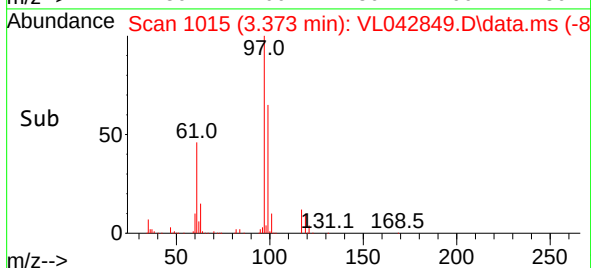
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

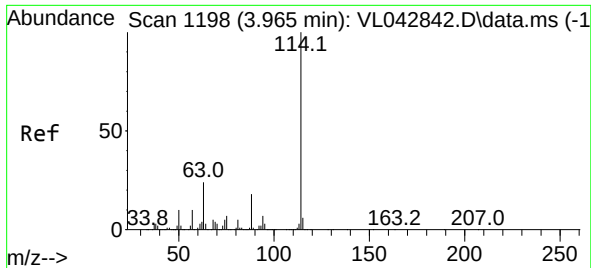


#32  
 1,1,1-Trichloroethane  
 Concen: 9.256 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56



Tgt Ion: 97 Resp: 252813  
 Ion Ratio Lower Upper  
 97 100  
 99 63.8 51.0 76.6  
 61 46.7 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081325

Tgt Ion:114 Resp: 374448

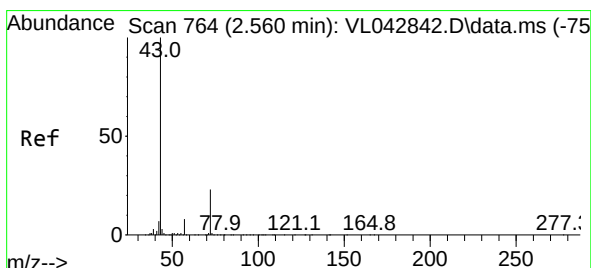
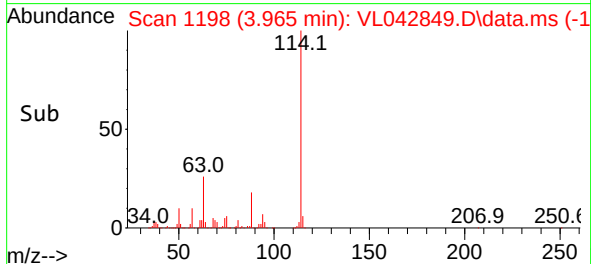
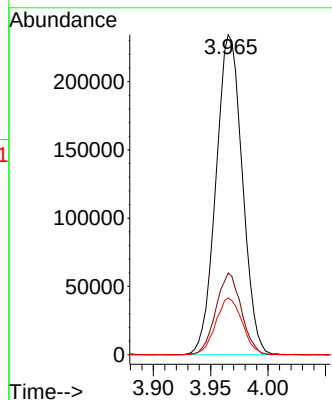
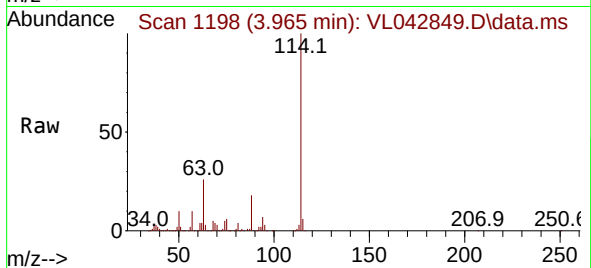
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 24.6  | 19.7  | 29.5  |
| 88  | 17.9  | 14.4  | 21.6  |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#34

2-Butanone

Concen: 9.135 ppbv

RT: 2.561 min Scan# 764

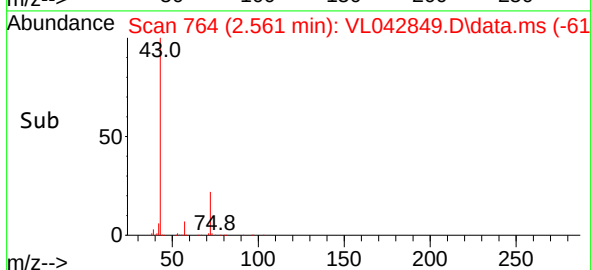
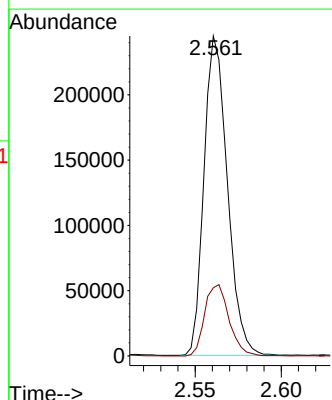
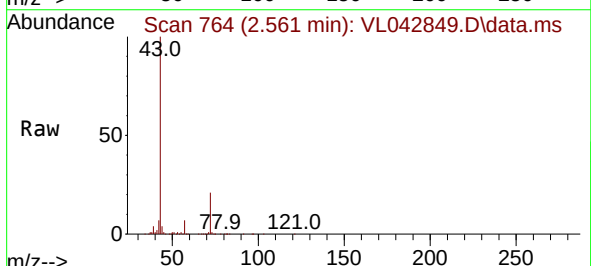
Delta R.T. 0.000 min

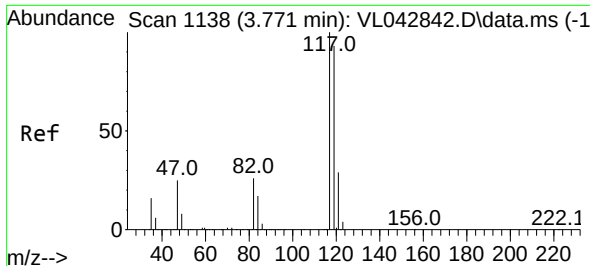
Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 230961

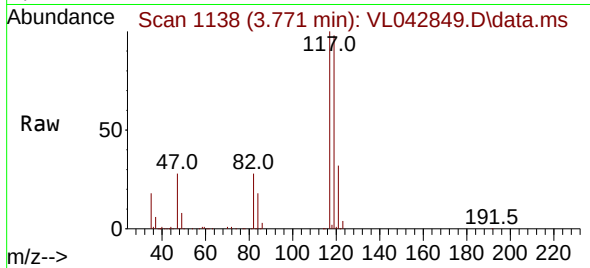
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 23.4  | 18.6  | 28.0  |





#35  
Carbon Tetrachloride  
Concen: 9.478 ppbv  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

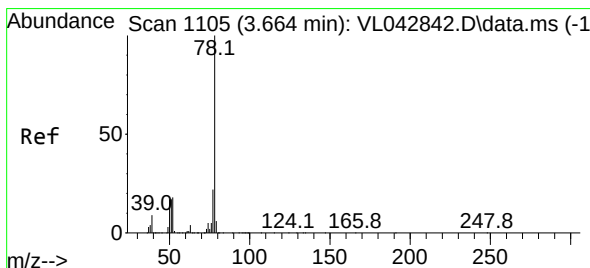
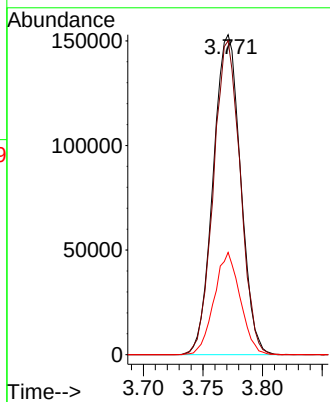
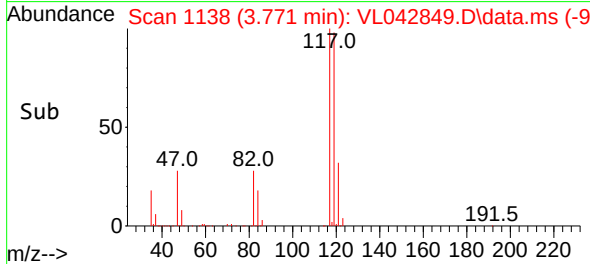
Instrument : MSVOA\_L  
ClientSampleId : ICVVL081325



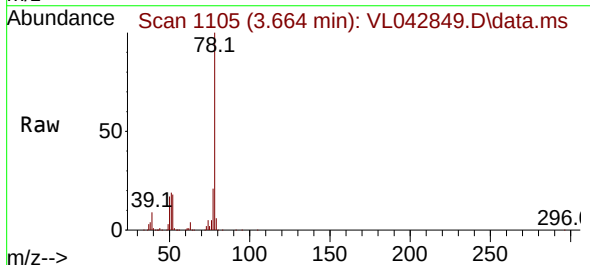
Tgt Ion: 117 Resp: 24467  
Ion Ratio Lower Upper  
117 100  
119 98.1 74.7 112.1  
121 32.0 23.2 34.8

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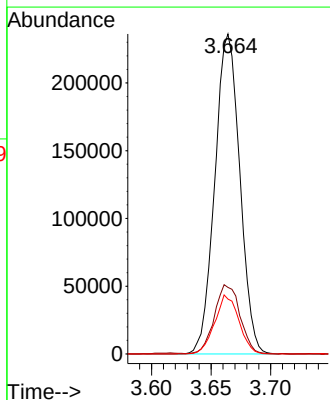
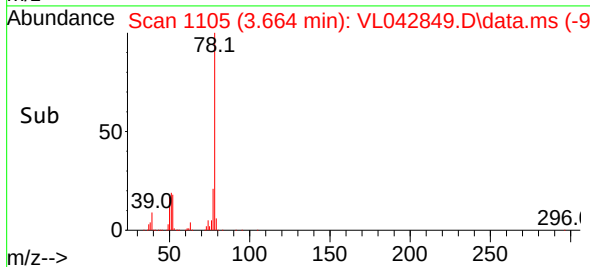
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

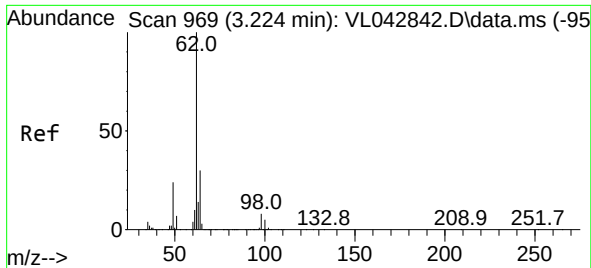


#36  
Benzene  
Concen: 9.592 ppbv  
RT: 3.664 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



Tgt Ion: 78 Resp: 343952  
Ion Ratio Lower Upper  
78 100  
77 20.8 17.7 26.5  
50 17.1 13.9 20.9





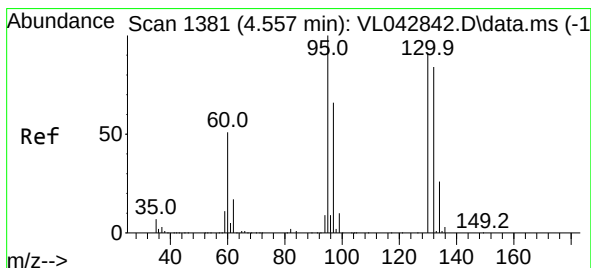
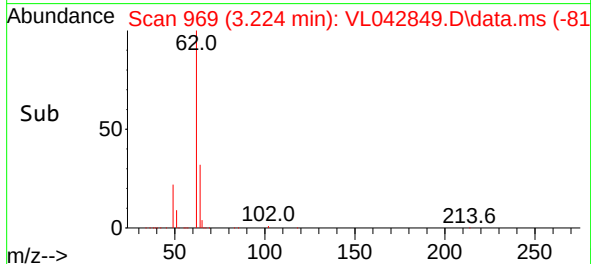
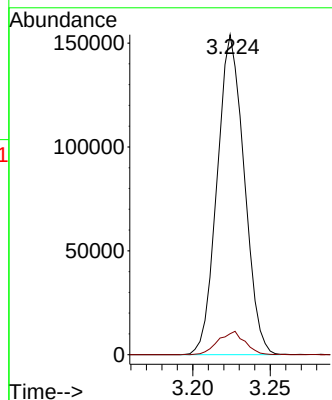
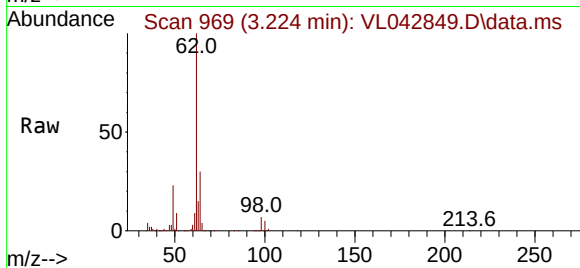
#37  
1,2-Dichloroethane  
Concen: 9.991 ppbv  
RT: 3.224 min Scan# 969  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

Tgt Ion: 62 Resp: 187160  
Ion Ratio Lower Upper  
62 100  
98 7.2 5.9 8.9

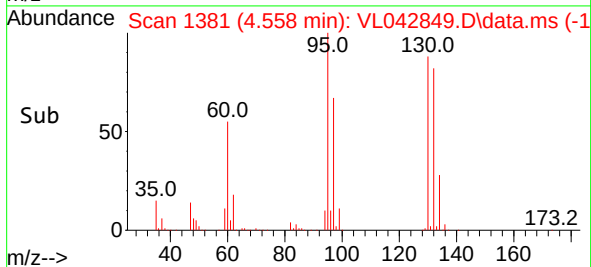
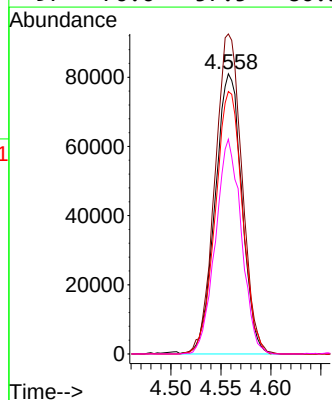
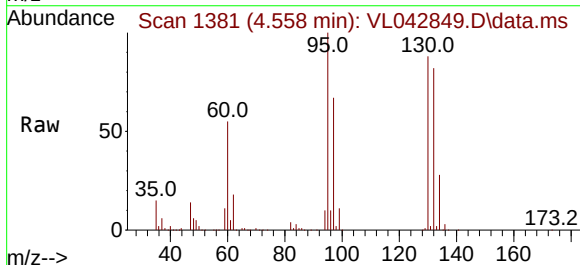
Manual Integrations  
APPROVED

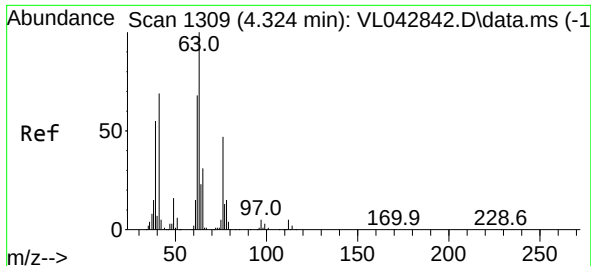
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#38  
Trichloroethene  
Concen: 9.202 ppbv  
RT: 4.558 min Scan# 1381  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion:130 Resp: 150693  
Ion Ratio Lower Upper  
130 100  
95 114.2 87.6 131.4  
132 93.6 73.8 110.8  
97 76.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.436 ppbv

RT: 4.324 min Scan# 1309

Delta R.T. 0.000 min

Lab File: VL042849.D

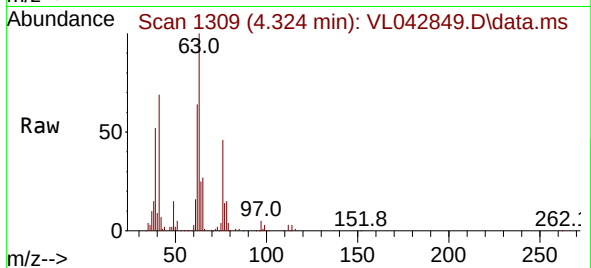
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

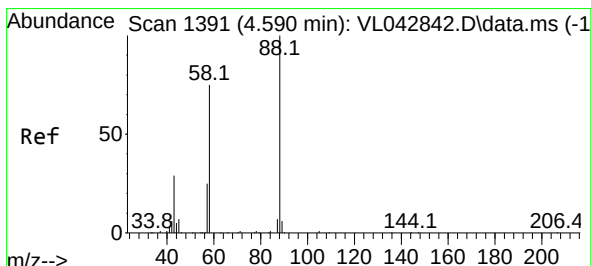
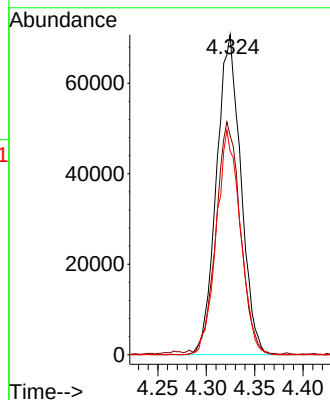
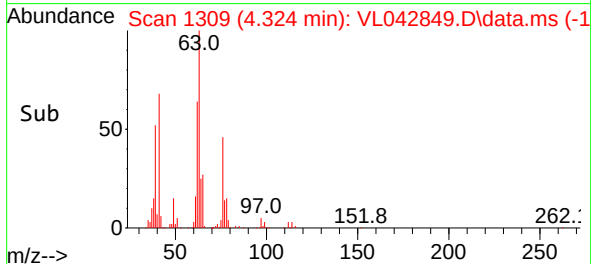
ICVVL081325



| Tgt Ion:  | 63    | Resp: | 12356 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 63        | 100   |       |       |
| 41        | 68.4  | 55.0  | 82.4  |
| 62        | 63.6  | 54.4  | 81.6  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#40

1,4-Dioxane

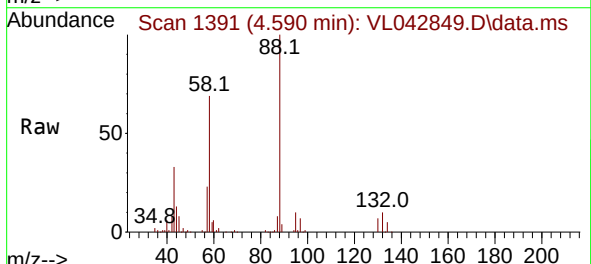
Concen: 8.879 ppbv

RT: 4.590 min Scan# 1391

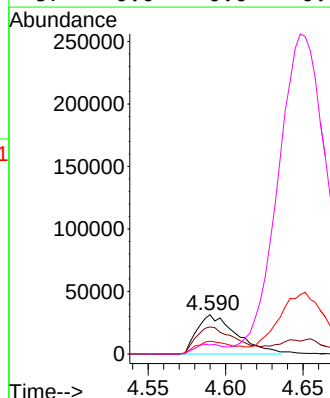
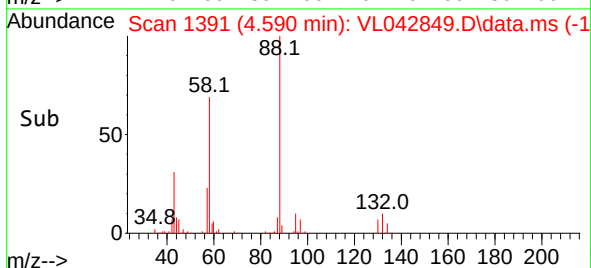
Delta R.T. 0.000 min

Lab File: VL042849.D

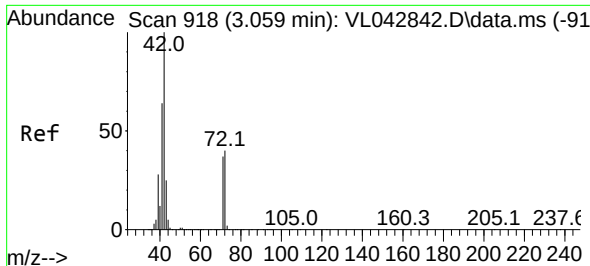
Acq: 13 Aug 2025 12:56



| Tgt Ion:  | 88    | Resp: | 55292 |
|-----------|-------|-------|-------|
| Ion Ratio | Lower | Upper |       |
| 88        | 100   |       |       |
| 58        | 72.7  | 53.8  | 80.6  |
| 43        | 32.4  | 22.8  | 34.2  |
| 57        | 0.0   | 0.0   | 0.0   |

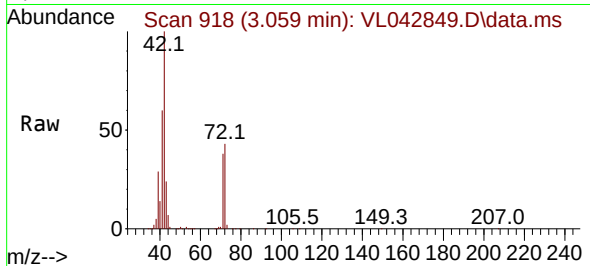






#41  
Tetrahydrofuran  
Concen: 9.372 ppbv  
RT: 3.059 min Scan# 918  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

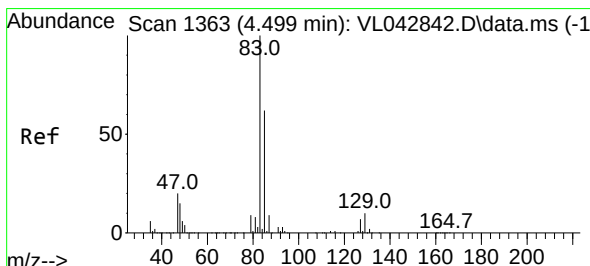
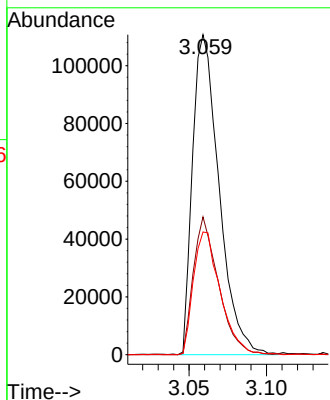
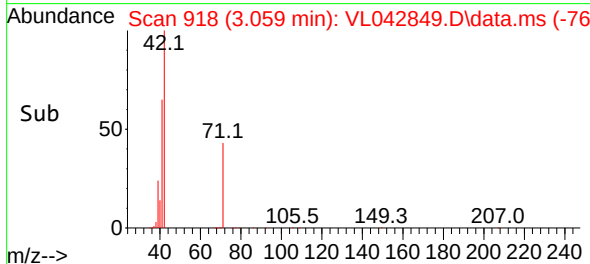
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



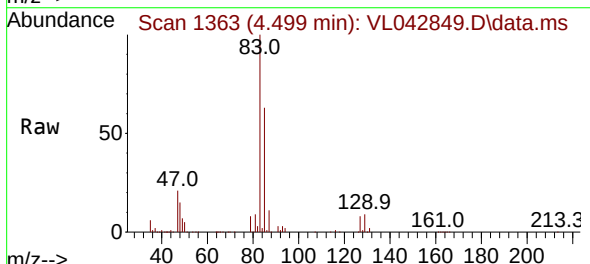
Tgt Ion: 42 Resp: 132108  
Ion Ratio Lower Upper  
42 100  
72 40.8 32.6 48.8  
71 39.0 30.0 45.0

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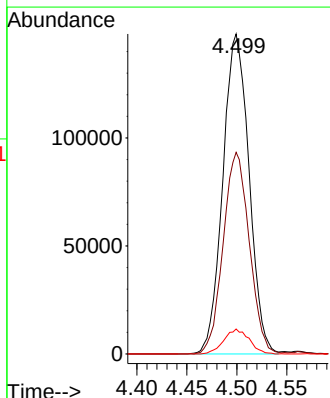
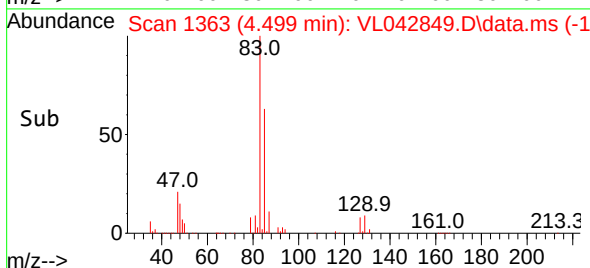
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

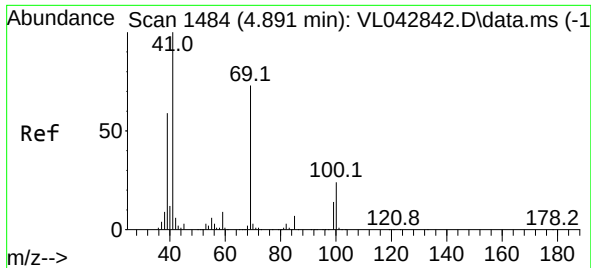


#42  
Bromodichloromethane  
Concen: 9.678 ppbv  
RT: 4.499 min Scan# 1363  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



Tgt Ion: 83 Resp: 270154  
Ion Ratio Lower Upper  
83 100  
85 63.0 49.8 74.8  
127 7.8 5.8 8.6





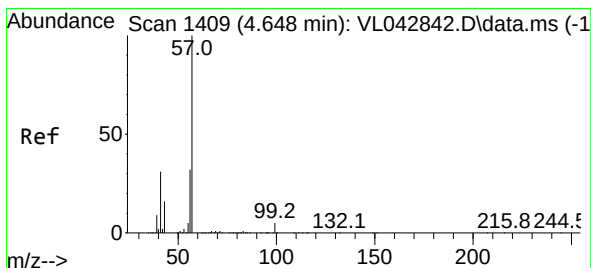
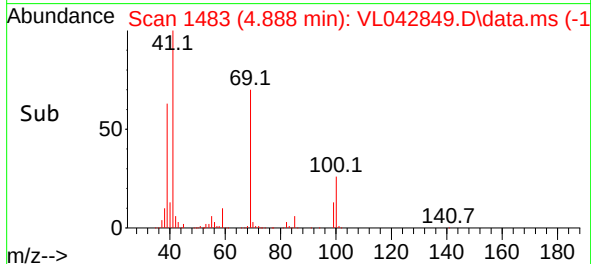
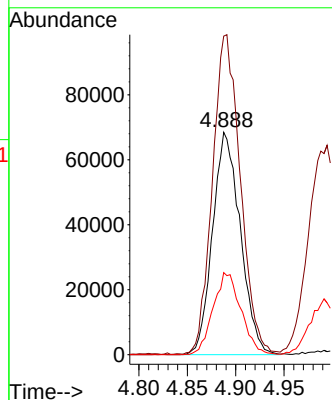
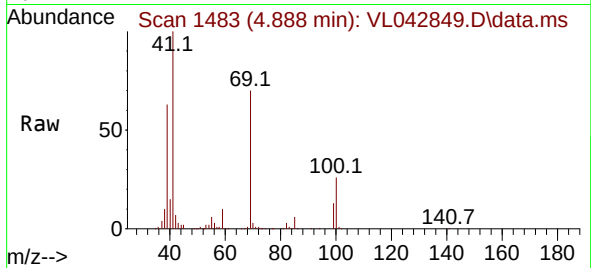
#43  
Methyl Methacrylate  
Concen: 9.229 ppbv  
RT: 4.888 min Scan# 1483  
Delta R.T. -0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Instrument : MSVOA\_L  
ClientSampleId : ICVVL081325

Tgt Ion: 69 Resp: 136329  
Ion Ratio Lower Upper  
69 100  
41 144.9 114.6 172.0  
100 37.0 30.2 45.4

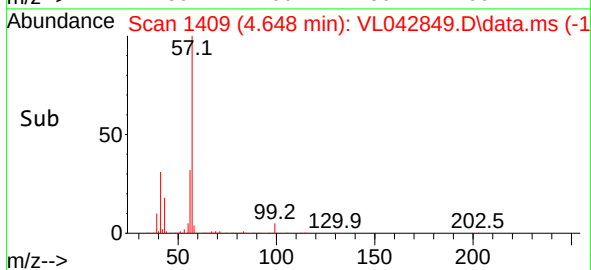
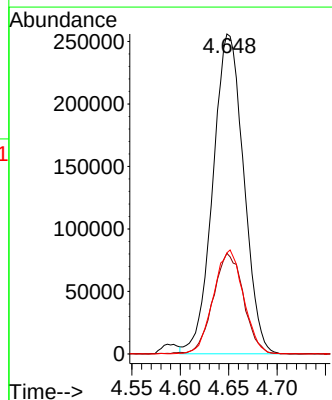
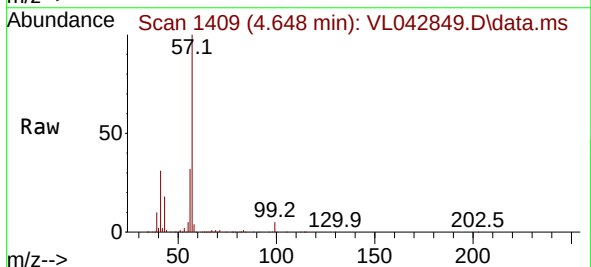
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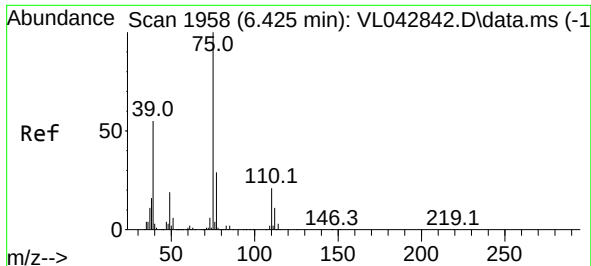
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#44  
2,2,4-Trimethylpentane  
Concen: 9.290 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

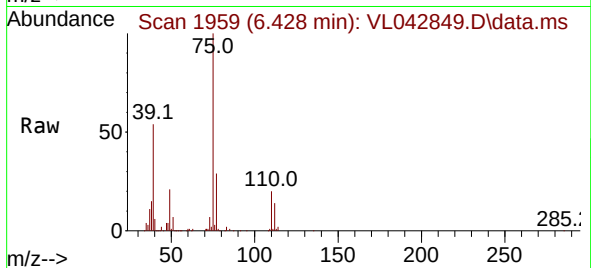
Tgt Ion: 57 Resp: 565415  
Ion Ratio Lower Upper  
57 100  
41 31.3 24.8 37.2  
56 31.9 25.5 38.3





#45  
 t-1,3-Dichloropropene  
 Concen: 9.645 ppbv  
 RT: 6.428 min Scan# 1958  
 Delta R.T. 0.003 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

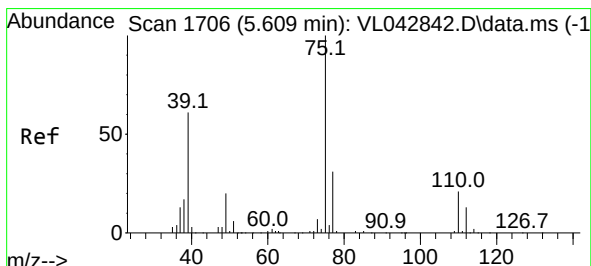
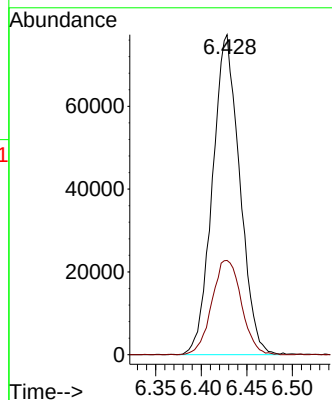
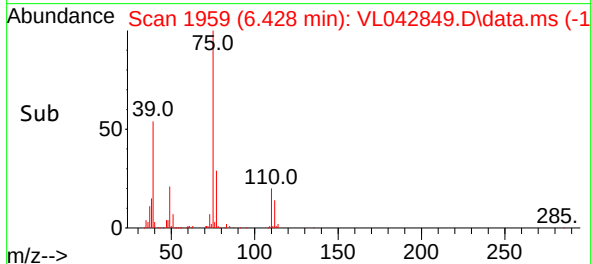
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325



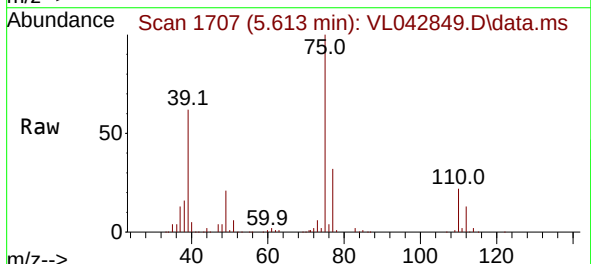
Tgt Ion: 75 Resp: 160784  
 Ion Ratio Lower Upper  
 75 100  
 77 29.5 23.8 35.6

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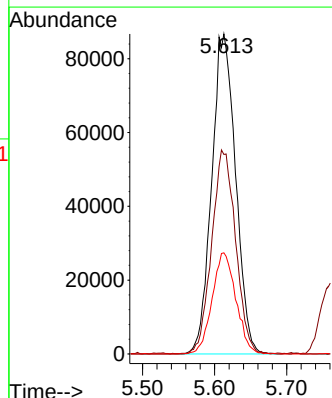
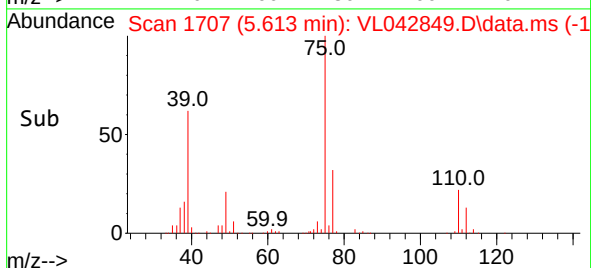
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

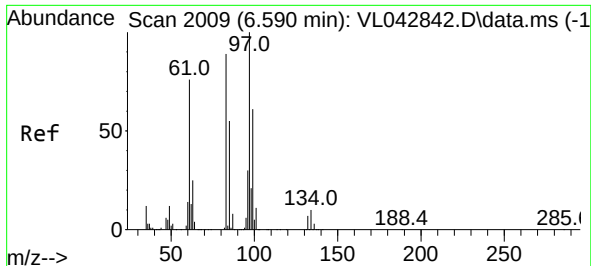


#46  
 cis-1,3-Dichloropropene  
 Concen: 9.628 ppbv m  
 RT: 5.613 min Scan# 1707  
 Delta R.T. 0.003 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56



Tgt Ion: 75 Resp: 199988  
 Ion Ratio Lower Upper  
 75 100  
 39 62.4 48.9 73.3  
 77 31.6 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.553 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081325

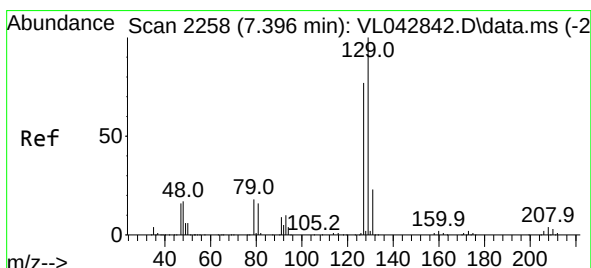
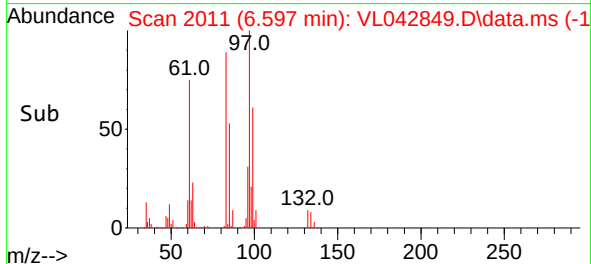
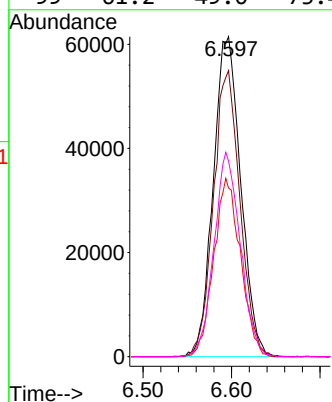
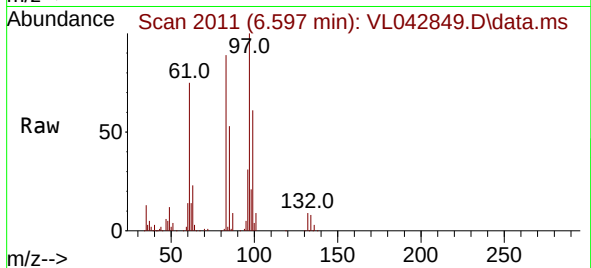
|             |              |
|-------------|--------------|
| Tgt Ion: 97 | Resp: 132548 |
| Ion Ratio   | Lower Upper  |
| 97 100      |              |
| 83 89.3     | 71.0 106.4   |
| 85 52.6     | 43.6 65.4    |
| 99 61.2     | 49.0 73.4    |

Manual Integrations

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#48

Dibromochloromethane

Concen: 9.708 ppbv

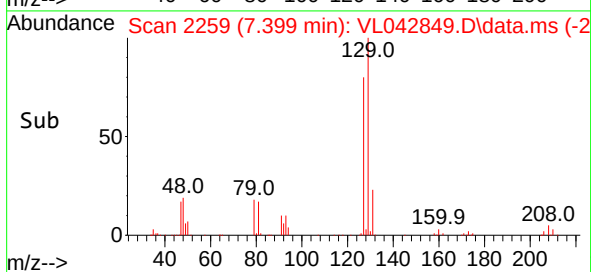
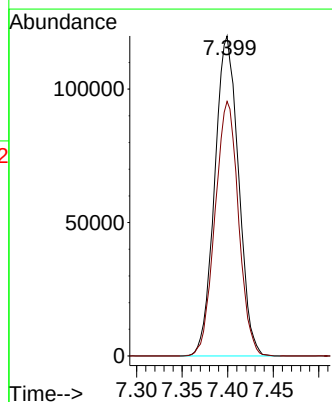
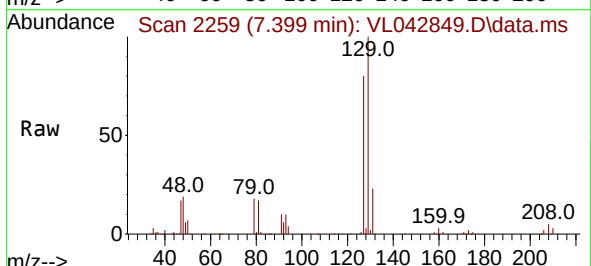
RT: 7.399 min Scan# 2259

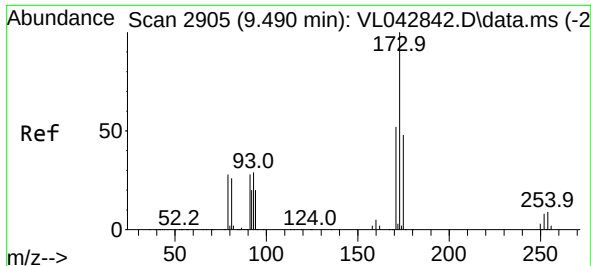
Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

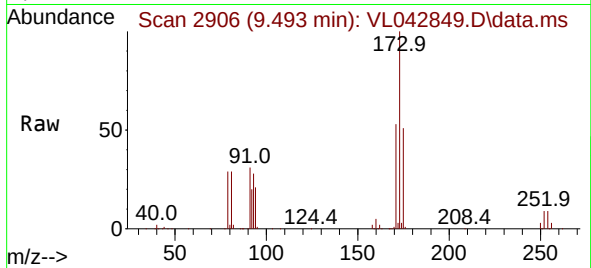
|             |              |
|-------------|--------------|
| Tgt Ion:129 | Resp: 217970 |
| Ion Ratio   | Lower Upper  |
| 129 100     |              |
| 127 78.5    | 39.4 118.2   |





#49  
Bromoform  
Concen: 9.446 ppbv  
RT: 9.493 min Scan# 2905  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

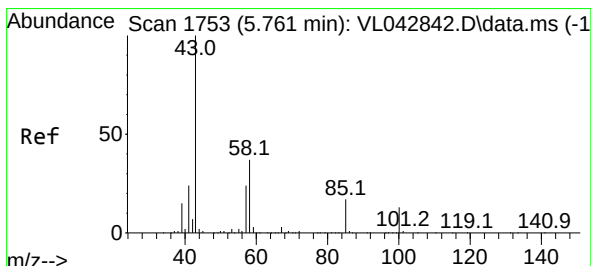
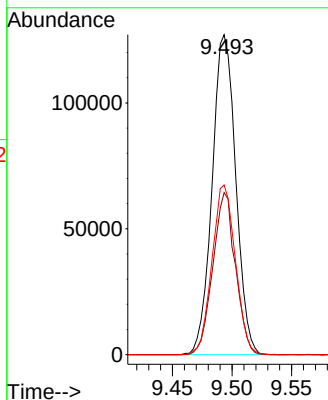
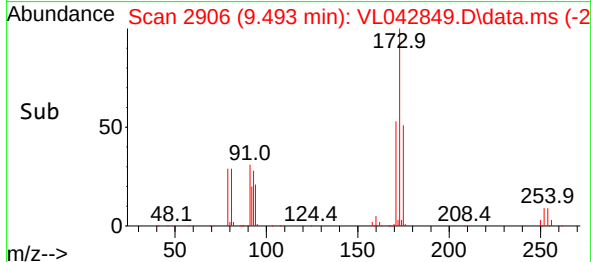
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



Tgt Ion:173 Resp: 174914  
Ion Ratio Lower Upper  
173 100  
175 48.4 39.2 58.8  
171 52.6 41.3 61.9

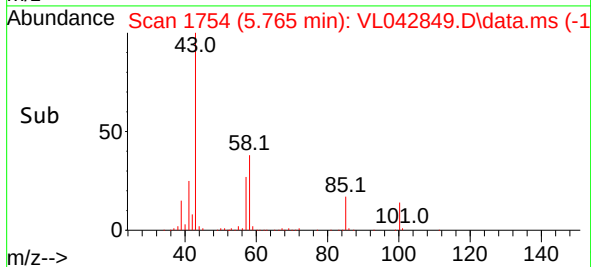
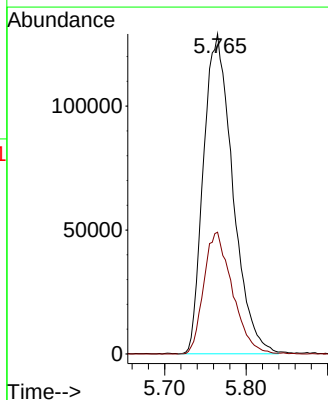
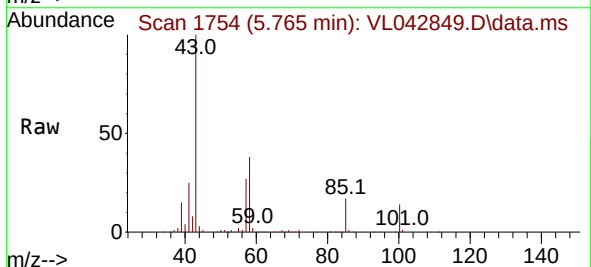
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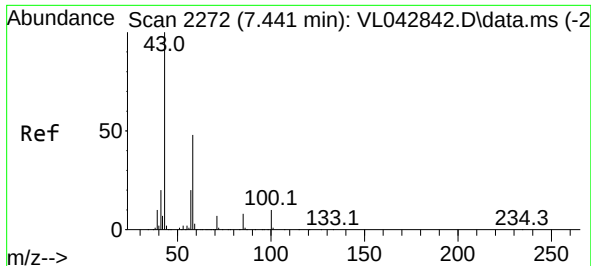
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#50  
4-Methyl-2-Pentanone  
Concen: 9.430 ppbv  
RT: 5.765 min Scan# 1754  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 322264  
Ion Ratio Lower Upper  
43 100  
58 37.3 29.8 44.8





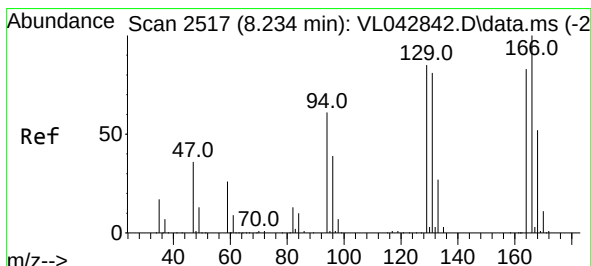
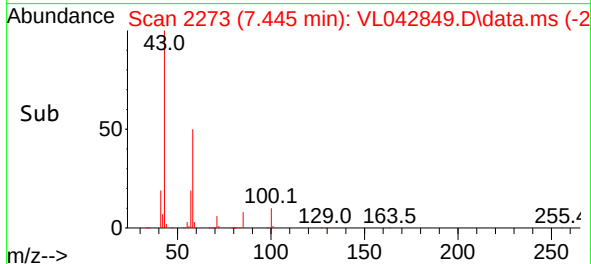
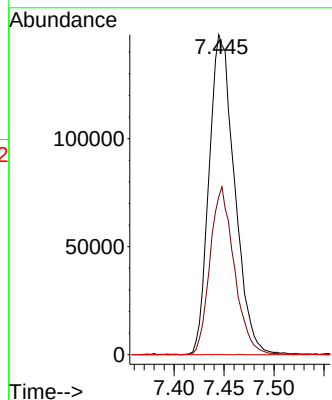
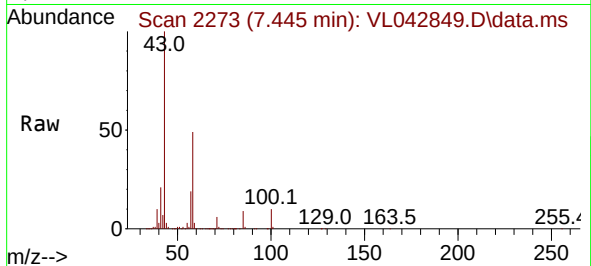
#51  
2-Hexanone  
Concen: 9.791 ppbv  
RT: 7.445 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

Tgt Ion: 43 Resp: 26332  
Ion Ratio Lower Upper  
43 100  
58 49.9 41.0 61.6  
98 0.1 0.1 0.1

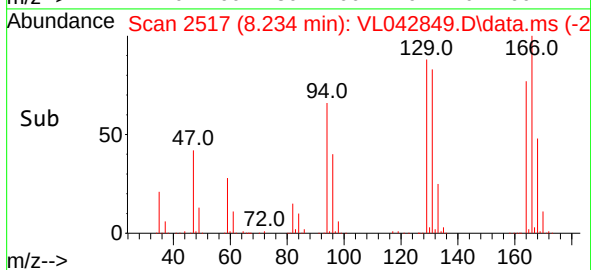
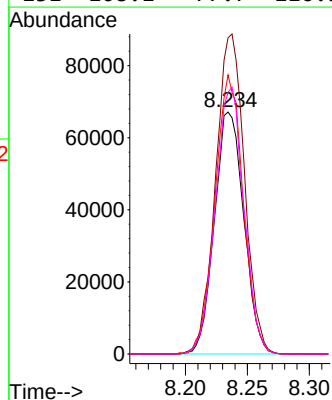
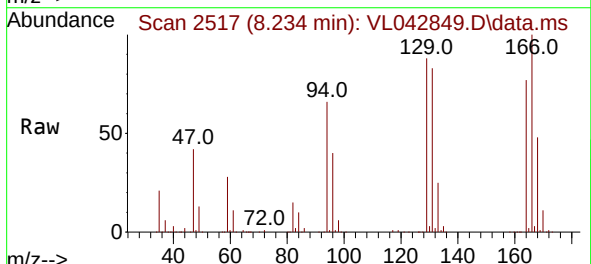
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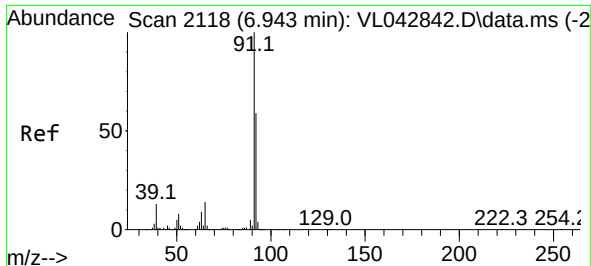
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Supervised By :Mahesh Dadoda 08/18/2025



#52  
Tetrachloroethene  
Concen: 8.544 ppbv  
RT: 8.234 min Scan# 2517  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

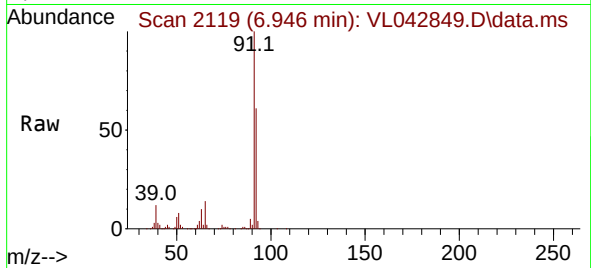
Tgt Ion:164 Resp: 110828  
Ion Ratio Lower Upper  
164 100  
166 130.6 96.5 144.7  
129 115.3 81.8 122.6  
131 108.1 77.7 116.5





#53  
Toluene  
Concen: 9.340 ppbv  
RT: 6.946 min Scan# 2118  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

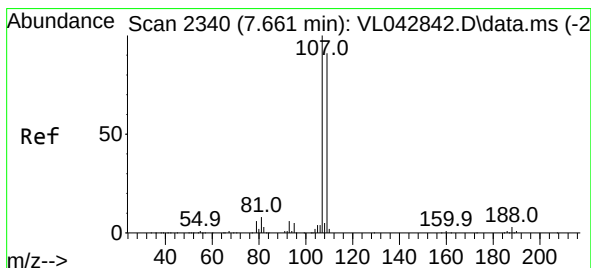
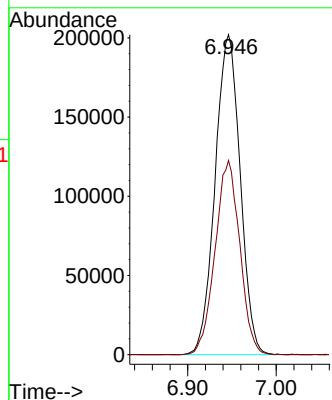
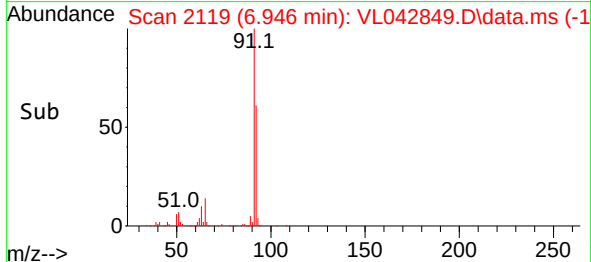
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



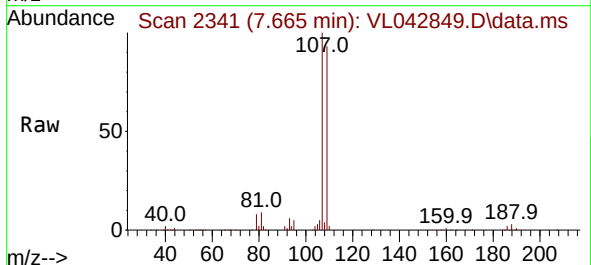
Tgt Ion: 91 Resp: 398138  
Ion Ratio Lower Upper  
91 100  
92 59.7 47.8 71.6

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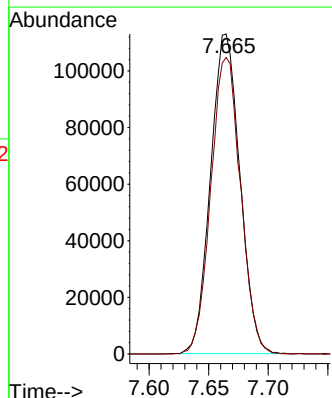
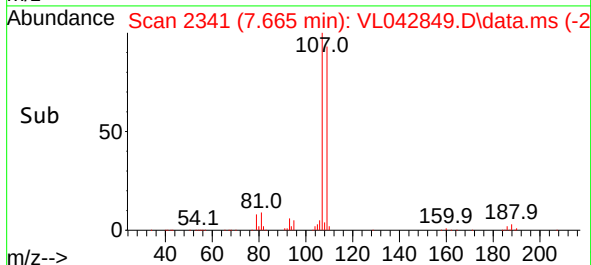
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

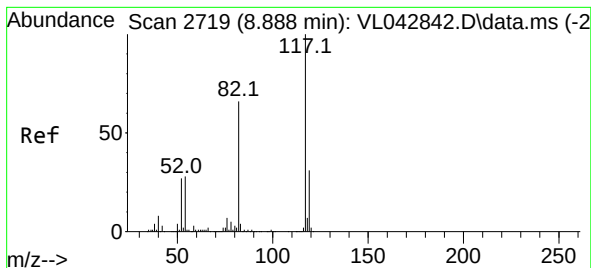


#54  
1,2-Dibromoethane  
Concen: 9.535 ppbv  
RT: 7.665 min Scan# 2341  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



Tgt Ion:107 Resp: 193340  
Ion Ratio Lower Upper  
107 100  
109 92.7 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2719

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

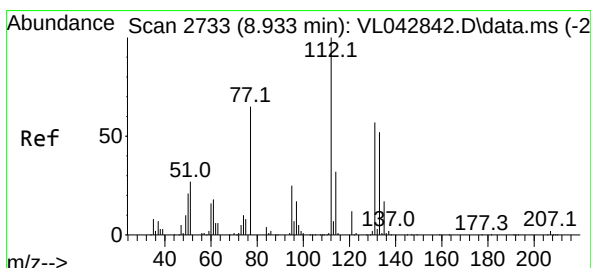
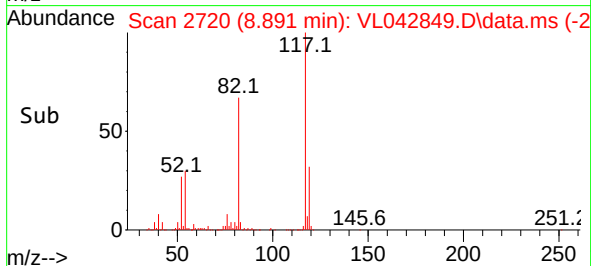
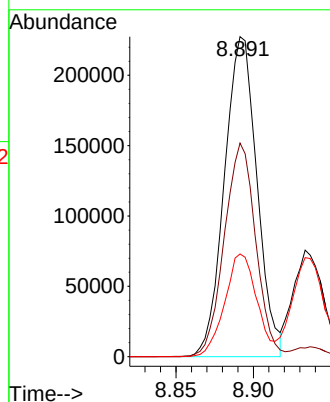
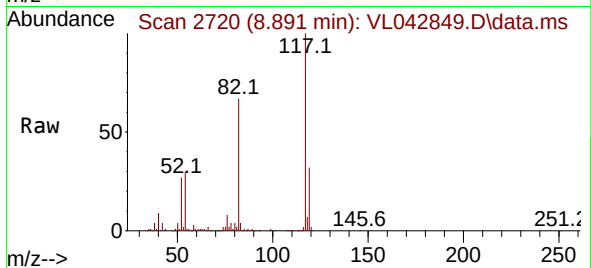
ICVVL081325

Tgt Ion:117 Resp: 33349

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 82  | 67.3  | 54.6  | 81.8  |
| 119 | 31.8  | 25.9  | 38.9  |

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 08/14/2025  
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#56

1,1,1,2-Tetrachloroethane

Concen: 9.291 ppbv

RT: 8.937 min Scan# 2734

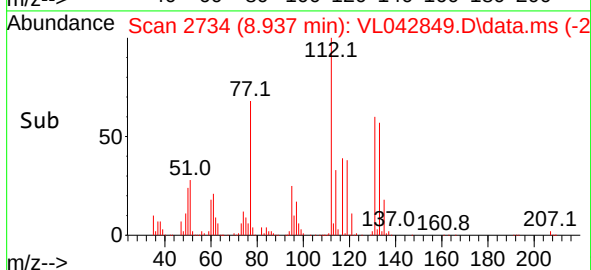
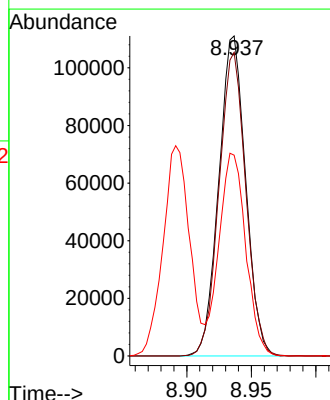
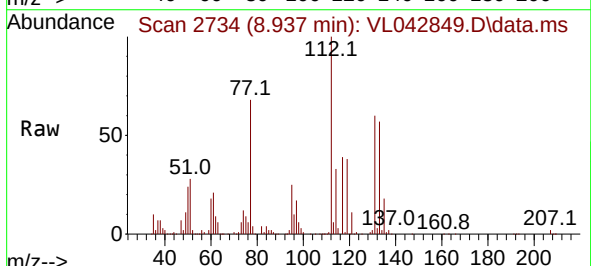
Delta R.T. 0.003 min

Lab File: VL042849.D

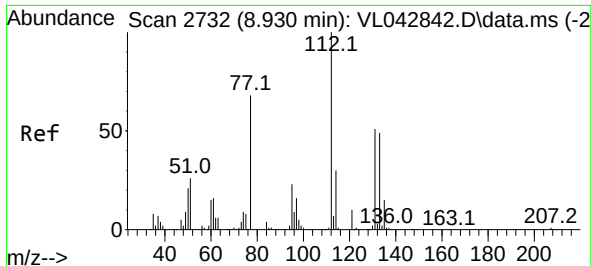
Acq: 13 Aug 2025 12:56

Tgt Ion:131 Resp: 160225

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 131 | 100   |       |       |
| 133 | 94.8  | 77.4  | 116.0 |
| 119 | 64.3  | 51.2  | 76.8  |

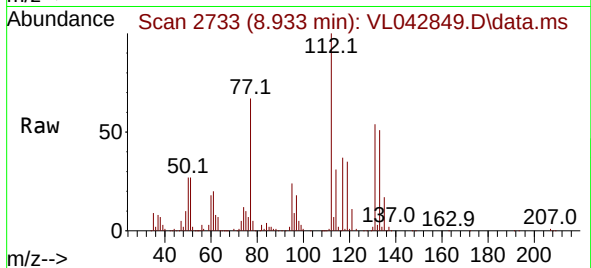






#57  
Chlorobenzene  
Concen: 9.378 ppbv  
RT: 8.933 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

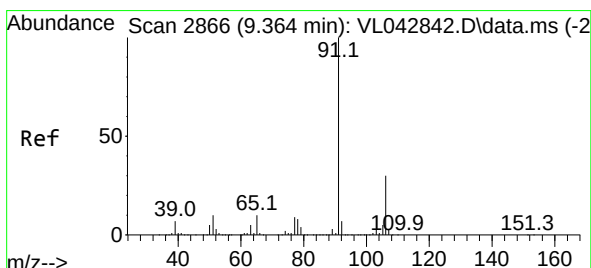
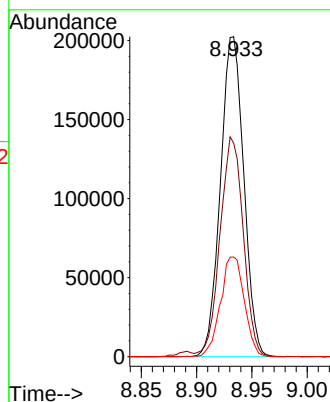
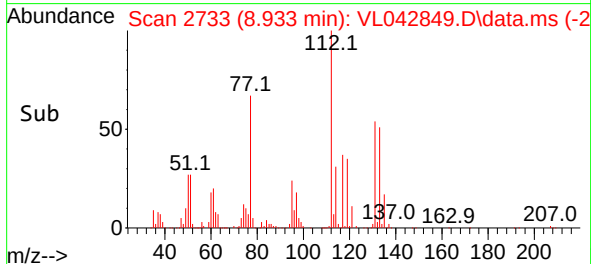
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



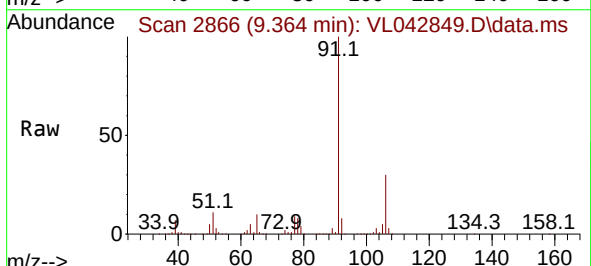
Tgt Ion: 112 Resp: 29737  
Ion Ratio Lower Upper  
112 100  
77 66.6 55.5 83.3  
114 31.2 27.2 33.2

Manual Integrations  
APPROVED

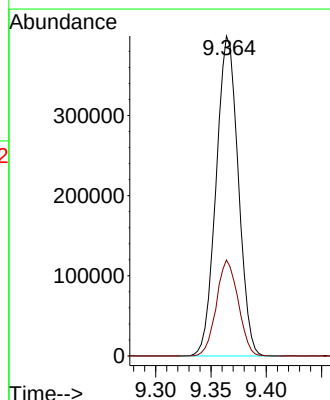
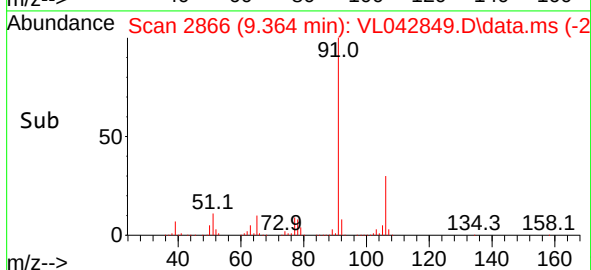
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

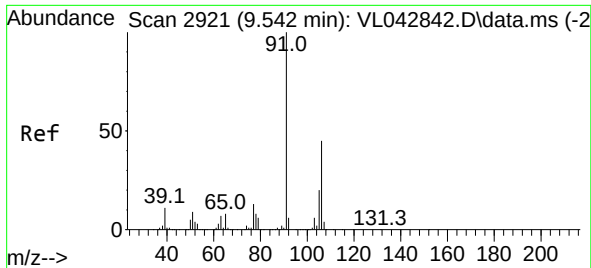


#58  
Ethyl Benzene  
Concen: 9.414 ppbv  
RT: 9.364 min Scan# 2866  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



Tgt Ion: 91 Resp: 554015  
Ion Ratio Lower Upper  
91 100  
106 30.0 23.9 35.9





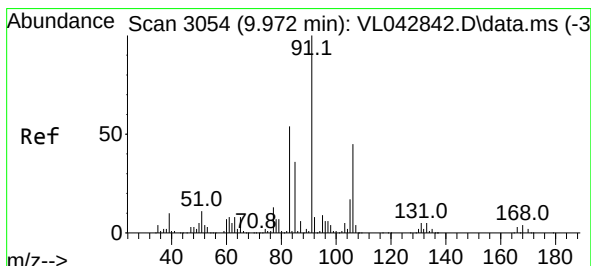
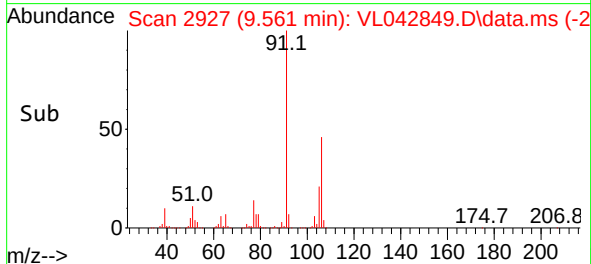
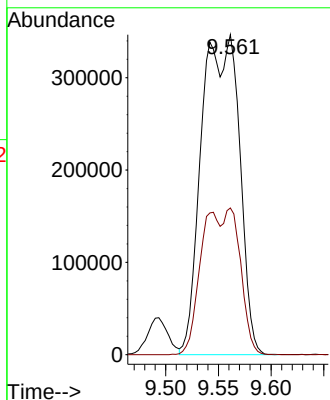
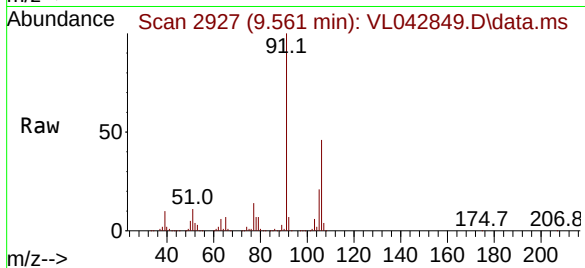
#59  
m/p-Xylene  
Concen: 18.754 ppbv m  
RT: 9.561 min Scan# 2921  
Delta R.T. 0.019 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

Tgt Ion: 91 Resp: 865100  
Ion Ratio Lower Upper  
91 100  
106 0.0 0.0 0.0

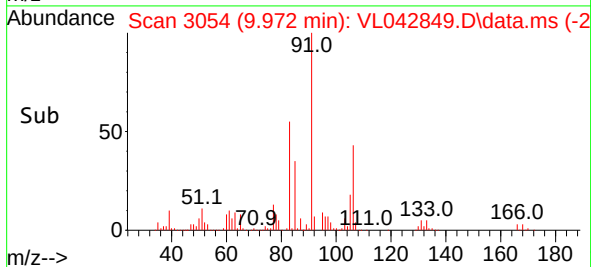
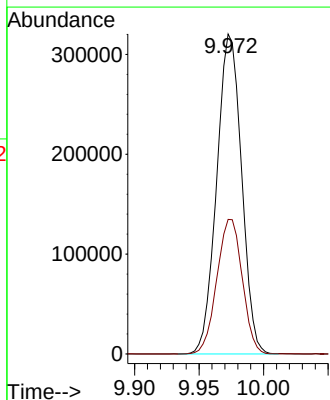
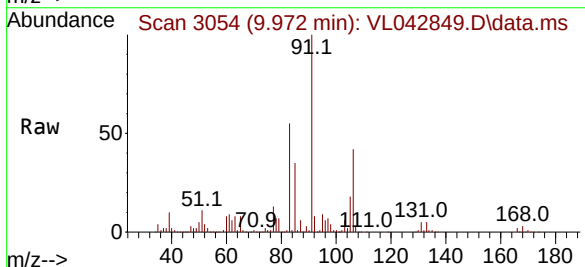
Manual Integrations  
APPROVED

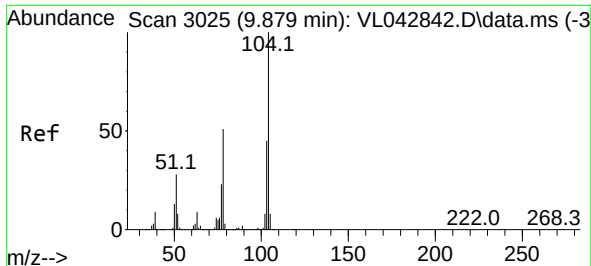
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#60  
o-Xylene  
Concen: 9.239 ppbv  
RT: 9.972 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

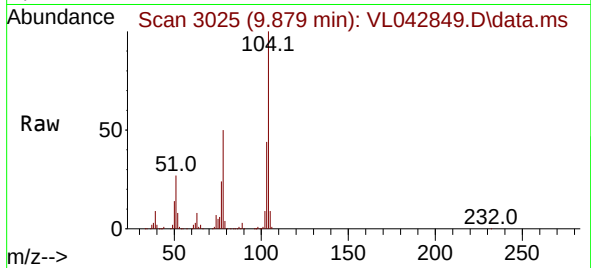
Tgt Ion: 91 Resp: 428721  
Ion Ratio Lower Upper  
91 100  
106 43.0 21.8 65.4





#61  
Styrene  
Concen: 9.377 ppbv  
RT: 9.879 min Scan# 3025  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

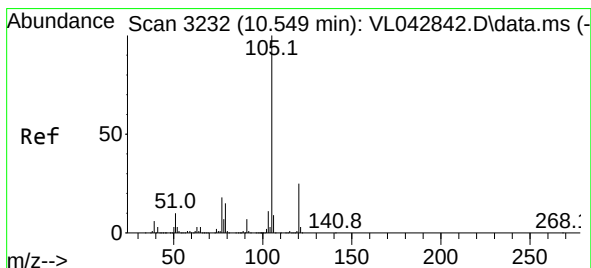
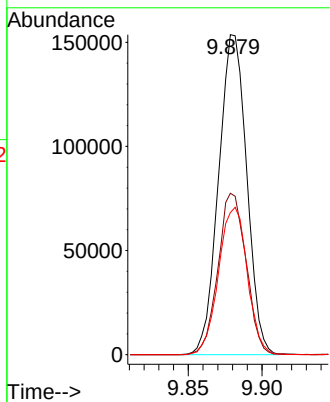
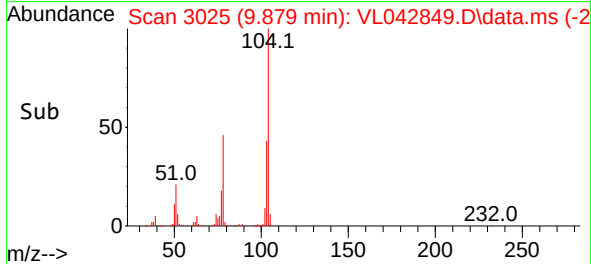
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



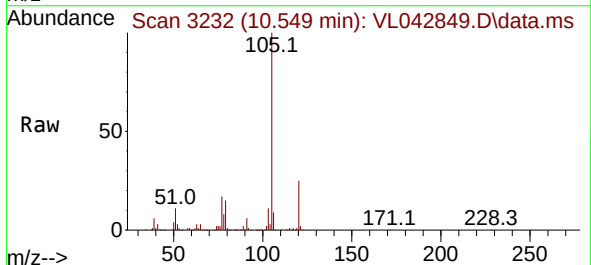
Tgt Ion:104 Resp: 203858  
Ion Ratio Lower Upper  
104 100  
78 50.3 40.6 61.0  
103 47.1 37.7 56.5

Manual Integrations  
APPROVED

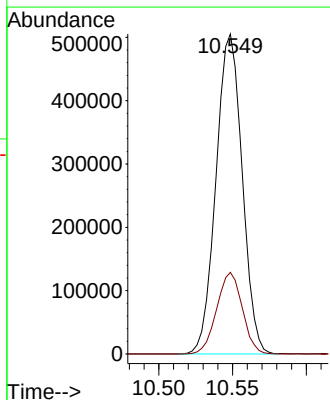
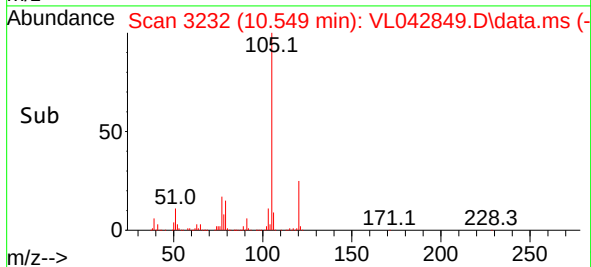
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

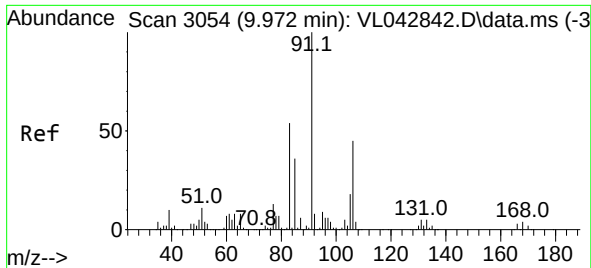


#62  
Isopropylbenzene  
Concen: 9.206 ppbv  
RT: 10.549 min Scan# 3232  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



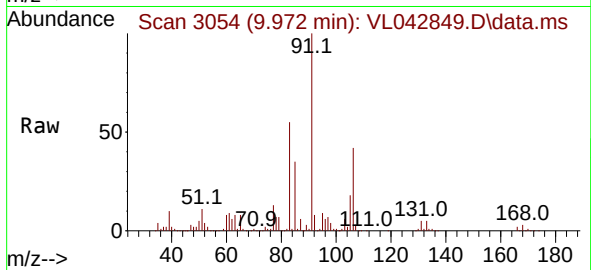
Tgt Ion:105 Resp: 624287  
Ion Ratio Lower Upper  
105 100  
120 24.9 20.6 30.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.826 ppbv  
RT: 9.972 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

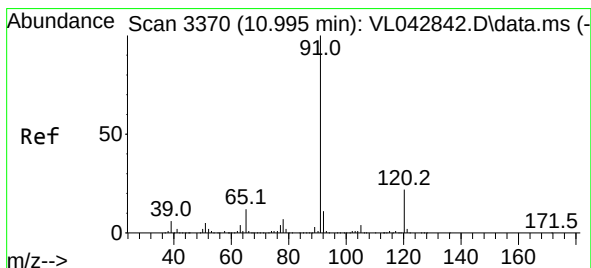
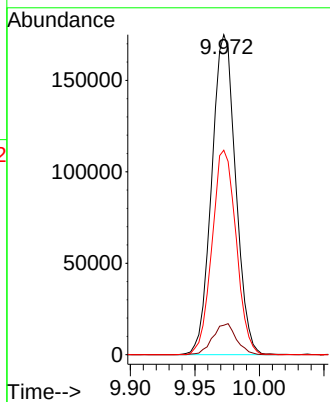
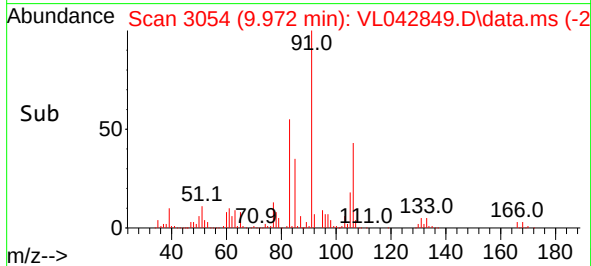
Instrument : MSVOA\_1  
ClientSampleId : ICVVL081325



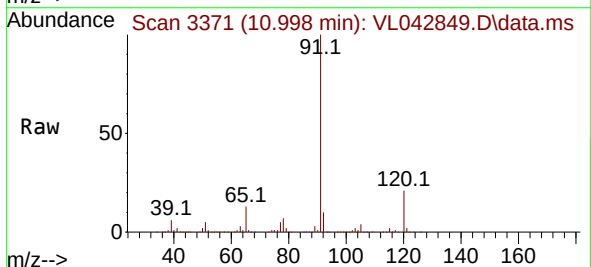
Tgt Ion: 83 Resp: 22523  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 64.4 32.3 96.8

Manual Integrations  
APPROVED

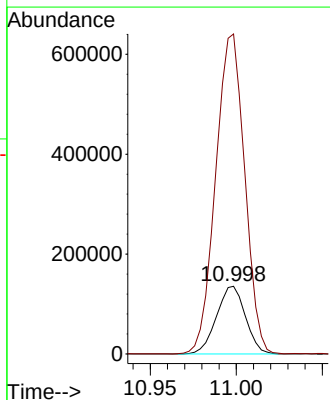
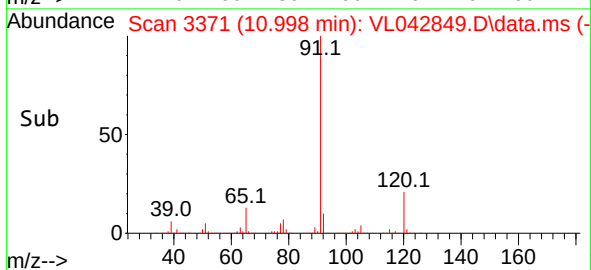
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

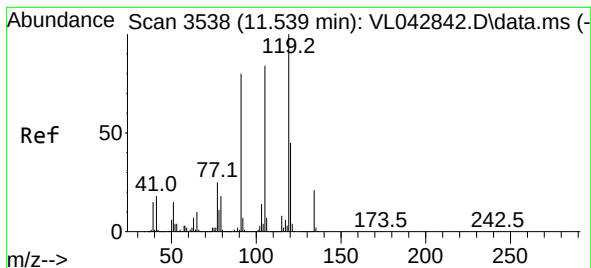


#64  
n-propylbenzene  
Concen: 9.145 ppbv  
RT: 10.998 min Scan# 3371  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



Tgt Ion:120 Resp: 158234  
Ion Ratio Lower Upper  
120 100  
91 476.9 375.8 563.6





#65

tert-Butylbenzene

Concen: 8.946 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

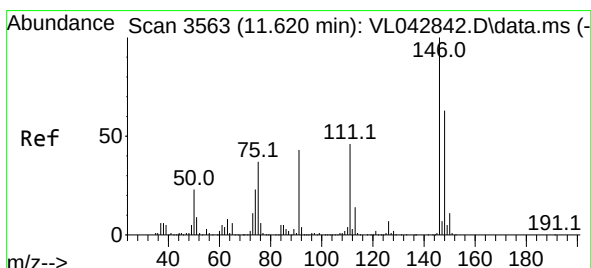
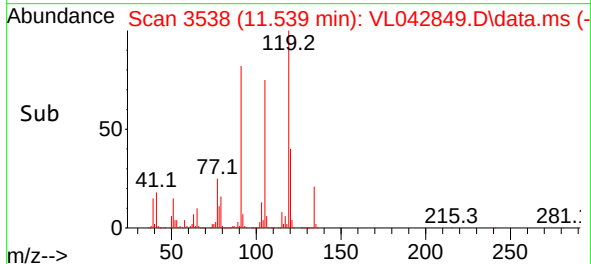
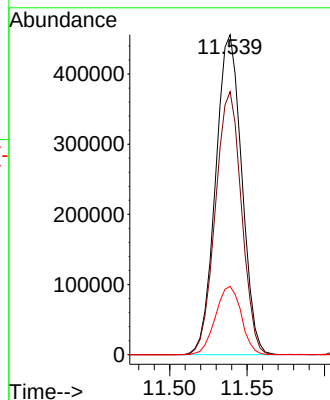
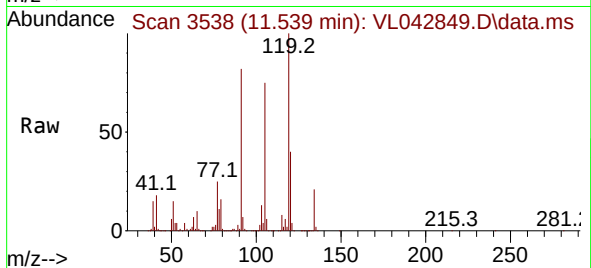
ICVVL081325

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 53479 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 91        | 82.2  | 63.9  | 95.9  |
| 134       | 21.1  | 17.0  | 25.4  |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#66

Benzyl Chloride

Concen: 9.031 ppbv

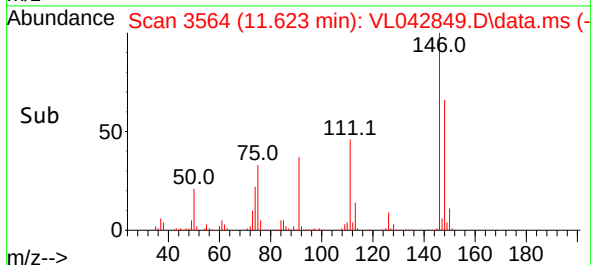
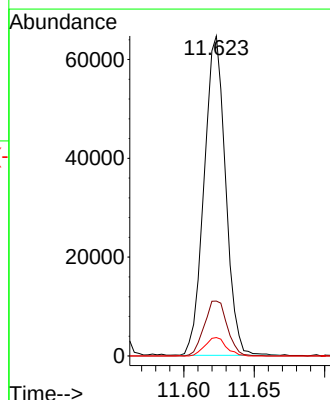
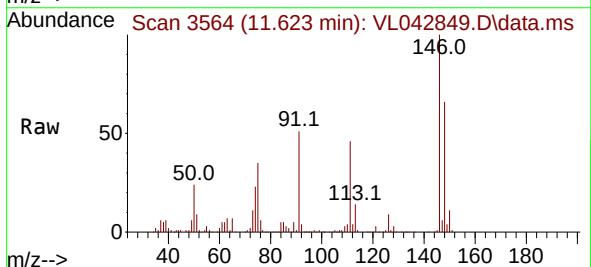
RT: 11.623 min Scan# 3564

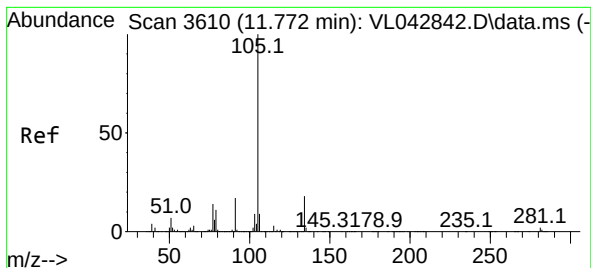
Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

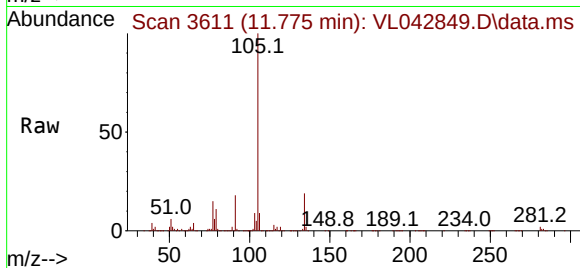
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 91    | Resp: | 68533 |
| Ion Ratio | Lower | Upper |       |
| 91        | 100   |       |       |
| 126       | 18.4  | 14.2  | 21.4  |
| 128       | 5.7   | 5.0   | 7.6   |





#67  
 sec-Butylbenzene  
 Concen: 9.088 ppbv  
 RT: 11.775 min Scan# 3611  
 Delta R.T. 0.003 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

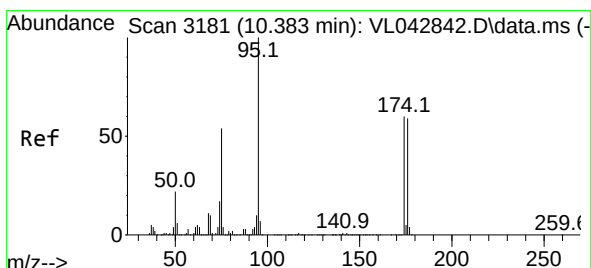
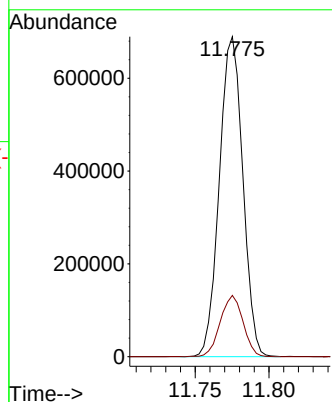
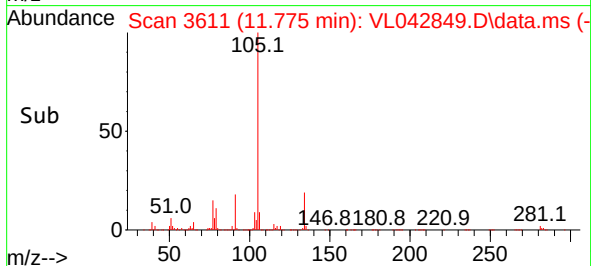
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325



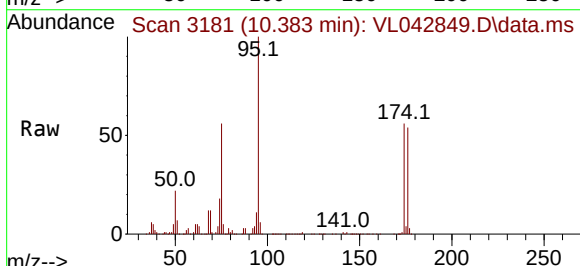
Tgt Ion:105 Resp: 762602  
 Ion Ratio Lower Upper  
 105 100  
 134 18.6 14.9 22.3

Manual Integrations  
 APPROVED

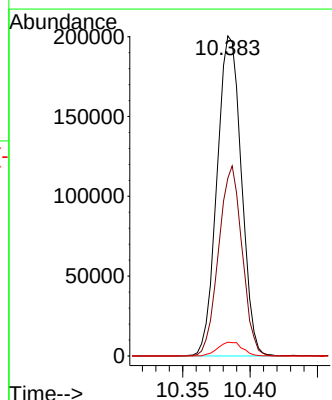
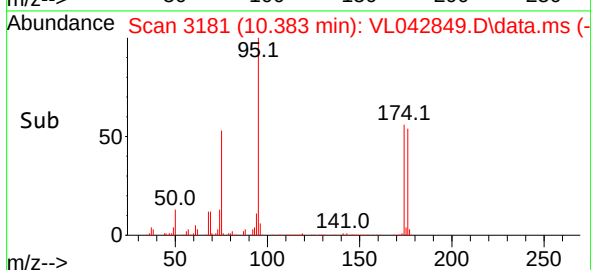
Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025

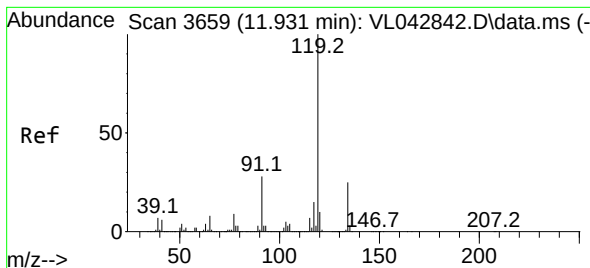


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.086 ppbv  
 RT: 10.383 min Scan# 3181  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56



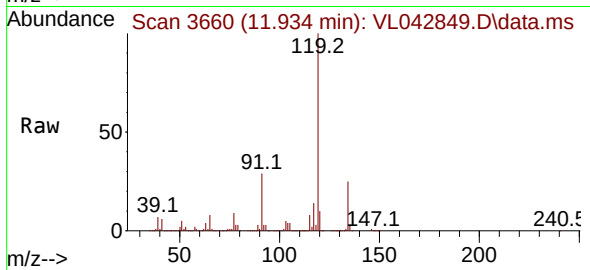
Tgt Ion: 95 Resp: 252268  
 Ion Ratio Lower Upper  
 95 100  
 174 57.2 48.4 72.6  
 175 4.4 3.8 5.8





#69  
p-Isopropyltoluene  
Concen: 8.810 ppbv  
RT: 11.934 min Scan# 3660  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

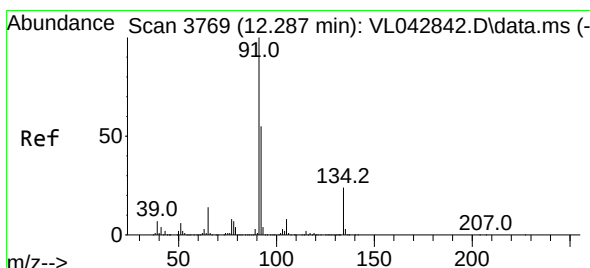
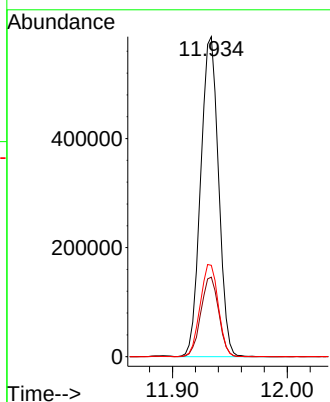
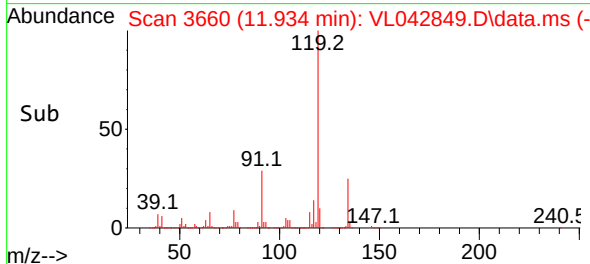
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



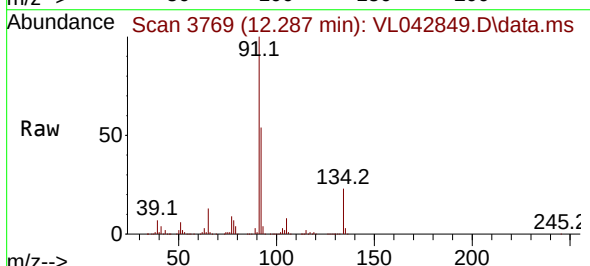
Tgt Ion: 119 Resp: 634670  
Ion Ratio Lower Upper  
119 100  
134 24.9 20.6 30.8  
91 29.4 22.6 34.0

Manual Integrations  
APPROVED

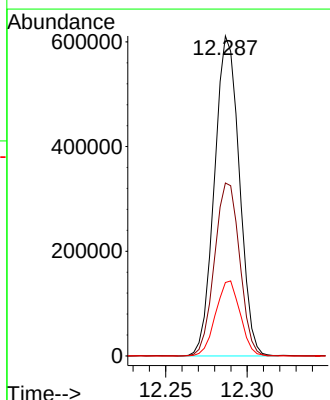
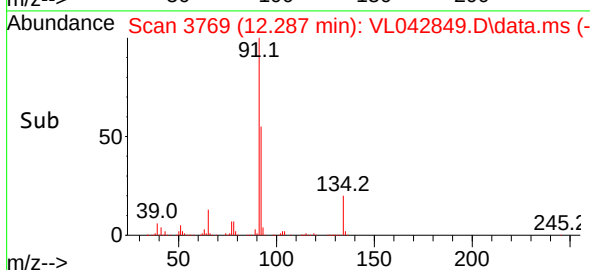
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

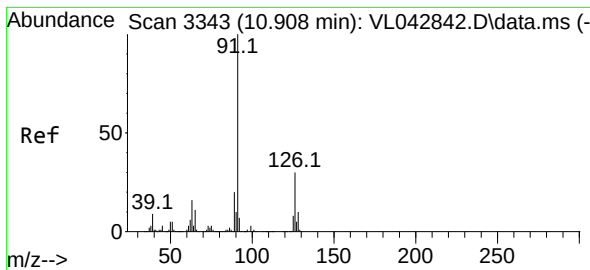


#70  
n-Butylbenzene  
Concen: 9.062 ppbv  
RT: 12.287 min Scan# 3769  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



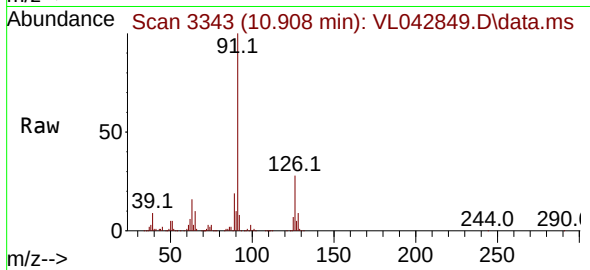
Tgt Ion: 91 Resp: 647453  
Ion Ratio Lower Upper  
91 100  
92 54.8 44.6 66.8  
134 23.1 19.0 28.4





#71  
2-Chlorotoluene  
Concen: 9.214 ppbv  
RT: 10.908 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

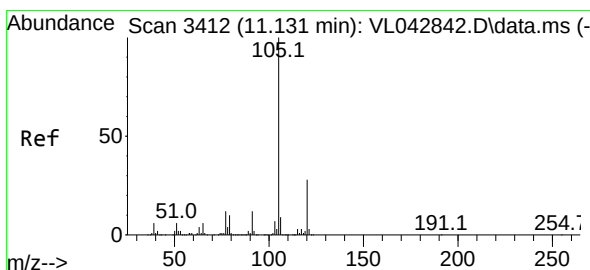
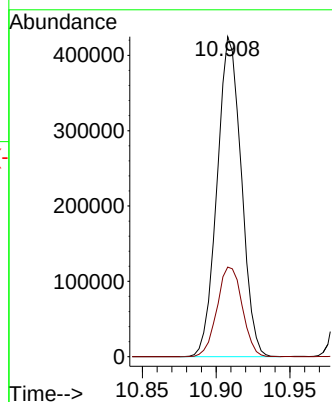
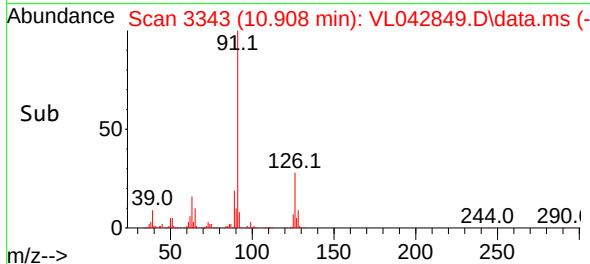
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



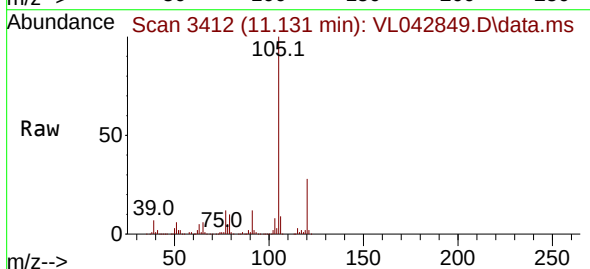
Tgt Ion: 91 Resp: 48517  
Ion Ratio Lower Upper  
91 100  
126 29.1 12.0 47.8

Manual Integrations  
APPROVED

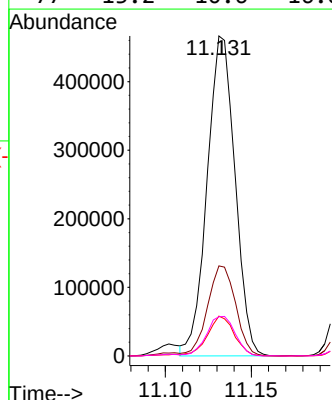
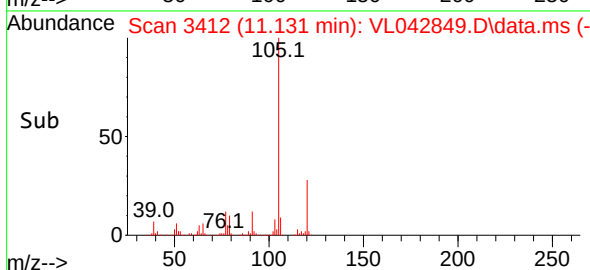
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



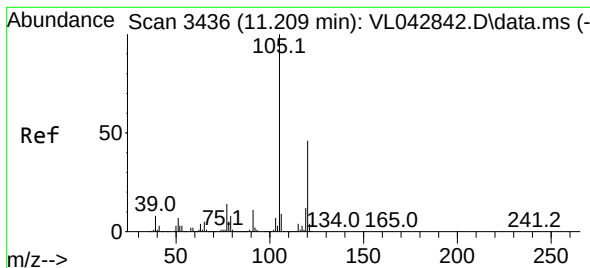
#72  
4-Ethyltoluene  
Concen: 9.338 ppbv  
RT: 11.131 min Scan# 3412  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



Tgt Ion:105 Resp: 525262  
Ion Ratio Lower Upper  
105 100  
120 29.2 23.4 35.2  
91 12.5 9.8 14.6  
77 13.2 10.6 16.0







#73

1,3,5-Trimethylbenzene

Concen: 9.108 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081325

Tgt Ion:105 Resp: 435708

Ion Ratio Lower Upper

105 100

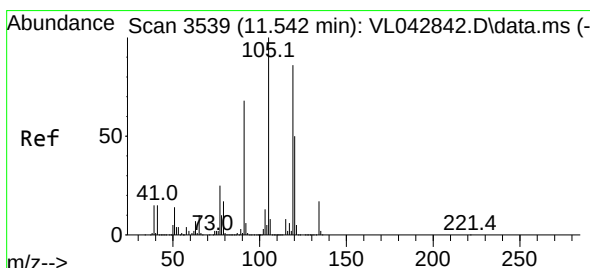
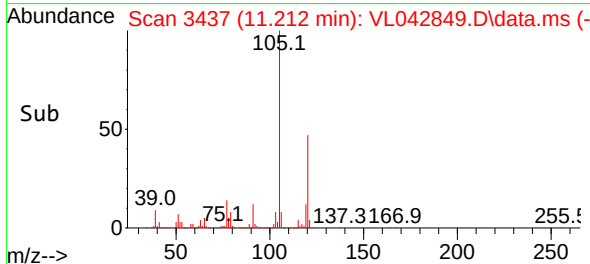
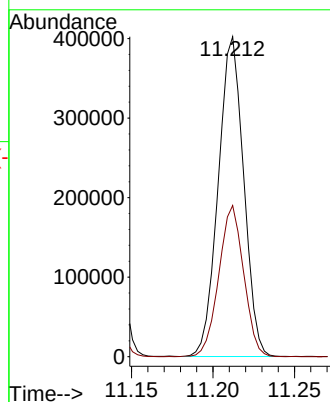
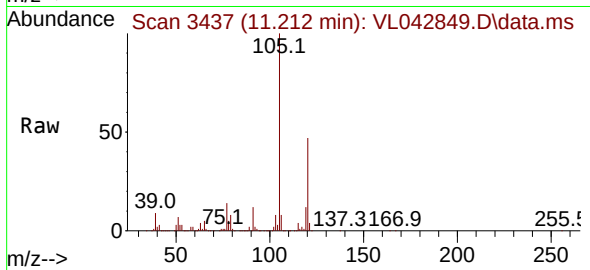
120 47.2 36.6 54.8

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 08/14/2025

Supervised By :Mahesh Dadoda 08/18/2025



#74

1,2,4-Trimethylbenzene

Concen: 8.943 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 469573

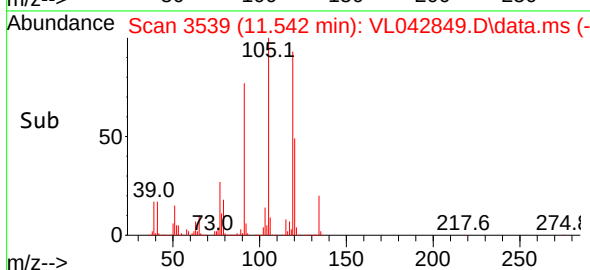
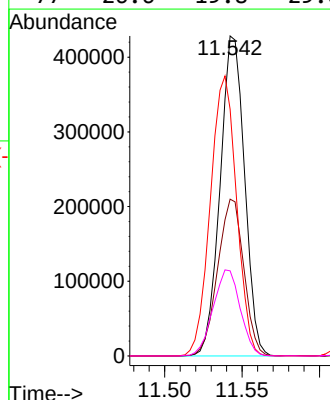
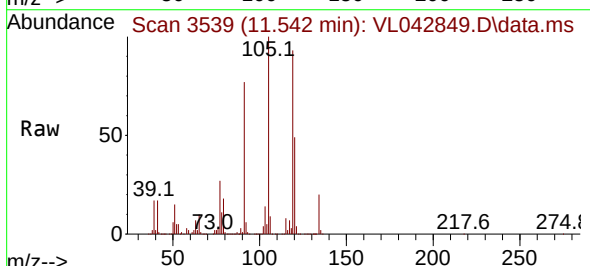
Ion Ratio Lower Upper

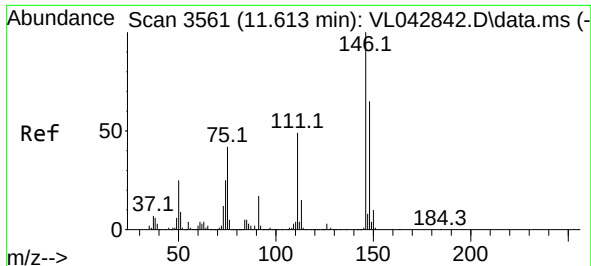
105 100

120 49.0 39.8 59.6

91 77.0 54.2 81.4

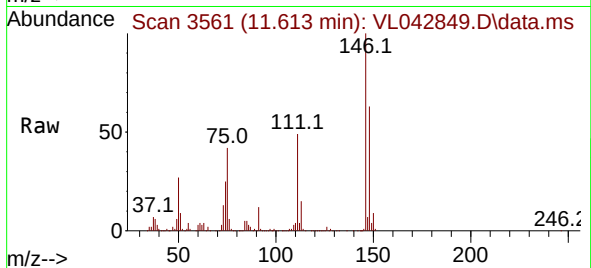
77 26.6 19.8 29.6





#75  
1,3-Dichlorobenzene  
Concen: 9.209 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

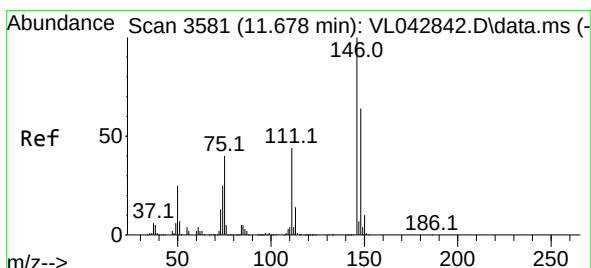
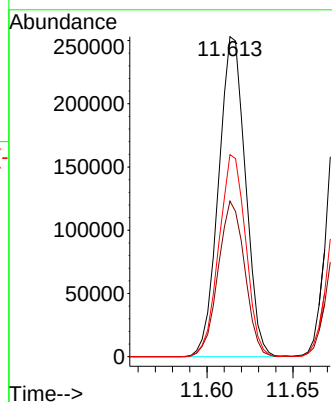
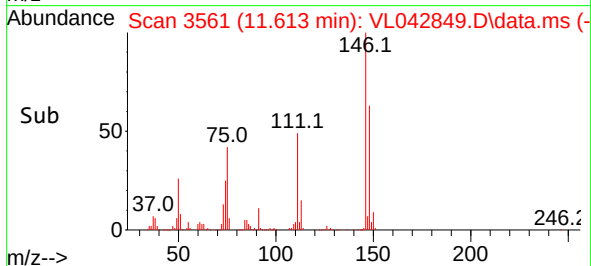
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325



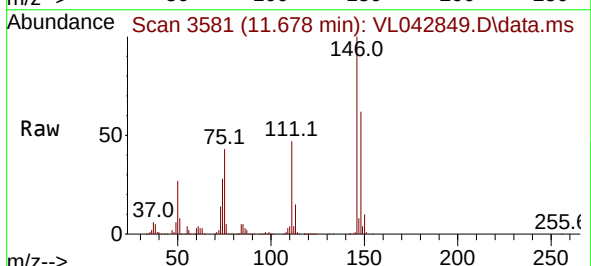
Tgt Ion:146 Resp: 274870  
Ion Ratio Lower Upper  
146 100  
111 48.2 23.9 71.7  
148 63.0 31.4 94.0

Manual Integrations  
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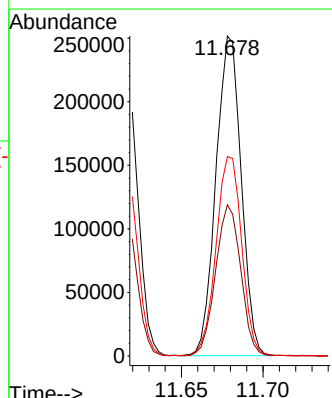
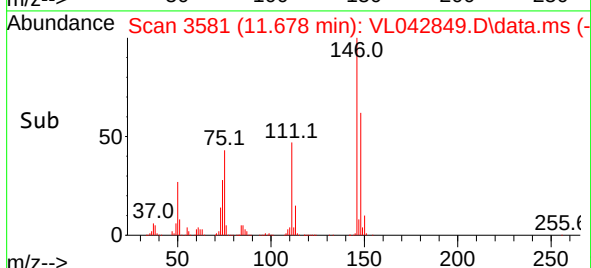
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025

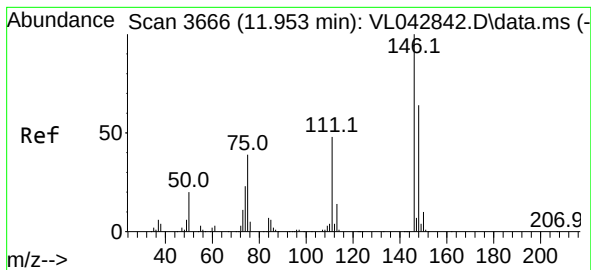


#76  
1,4-Dichlorobenzene  
Concen: 8.976 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56



Tgt Ion:146 Resp: 270976  
Ion Ratio Lower Upper  
146 100  
111 47.2 22.7 68.1  
148 63.6 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.736 ppbv

RT: 11.953 min Scan# 3666

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

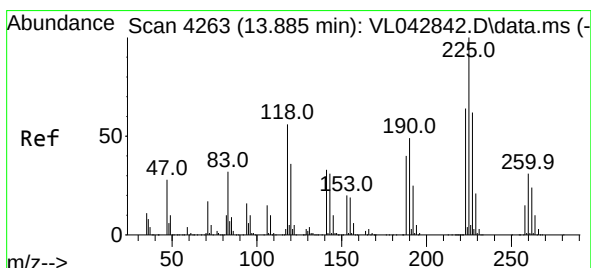
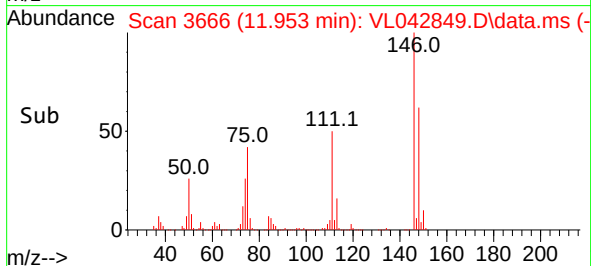
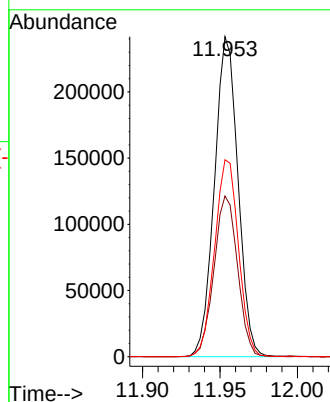
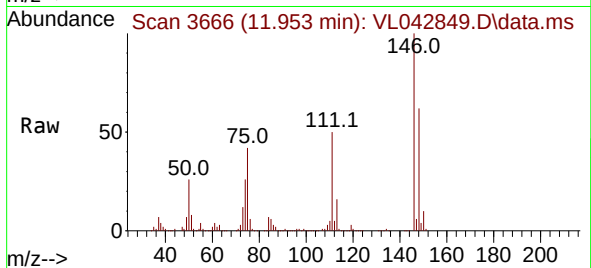
ClientSampleId :

ICVVL081325

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 25534 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 50.5  | 24.6  | 74.0  |
| 148       | 62.7  | 32.0  | 96.0  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#78

Hexachloro-1,3-Butadiene

Concen: 7.778 ppbv

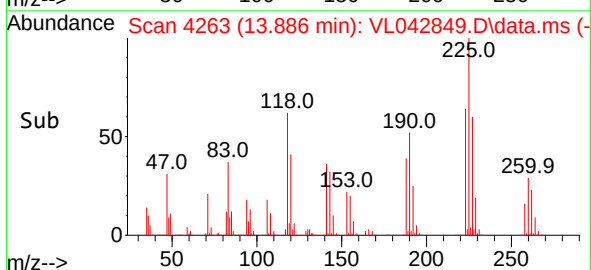
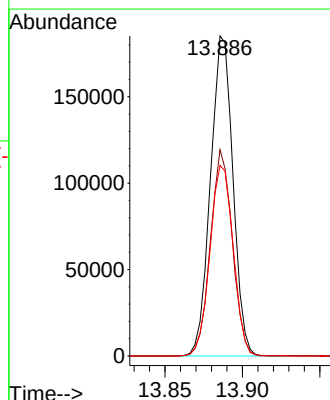
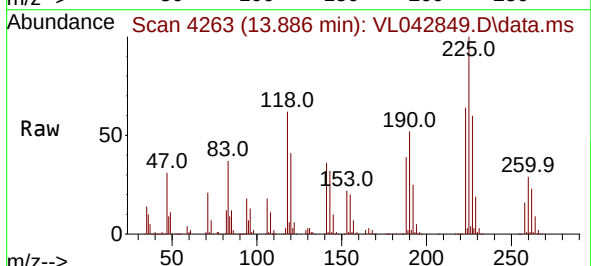
RT: 13.886 min Scan# 4263

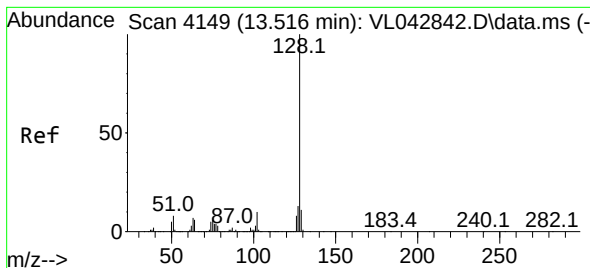
Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 186318 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 62.9  | 51.4  | 77.2   |
| 227       | 61.6  | 51.9  | 77.9   |





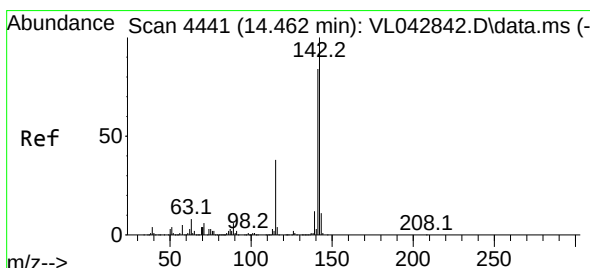
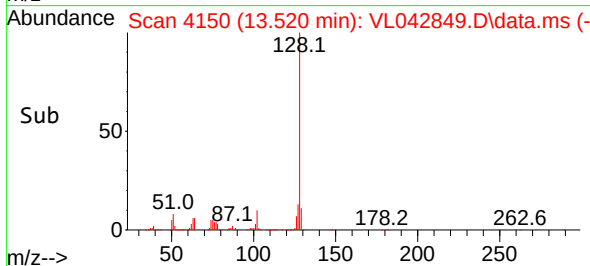
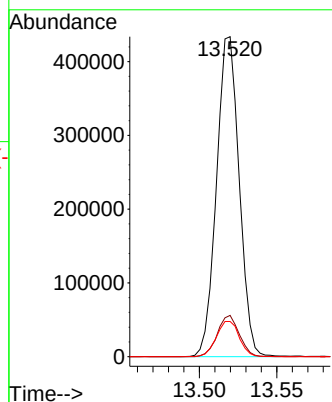
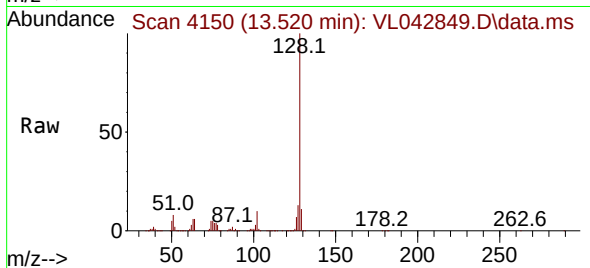
#79  
Naphthalene  
Concen: 9.284 ppbv  
RT: 13.520 min Scan# 4149  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

Tgt Ion:128 Resp: 441940  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.6 16.0  
129 11.0 8.9 13.3

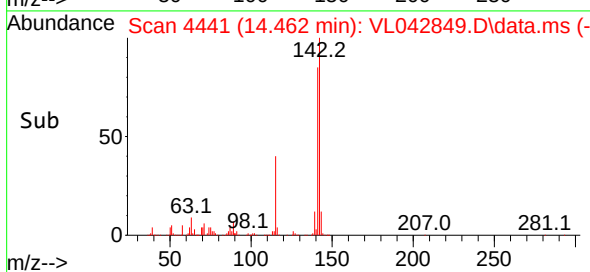
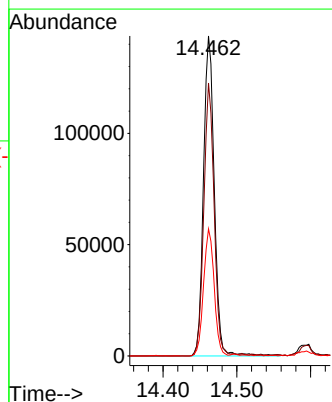
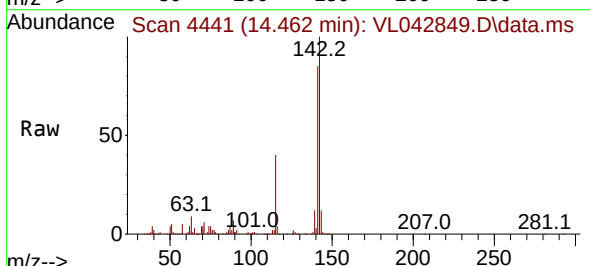
Manual Integrations  
APPROVED

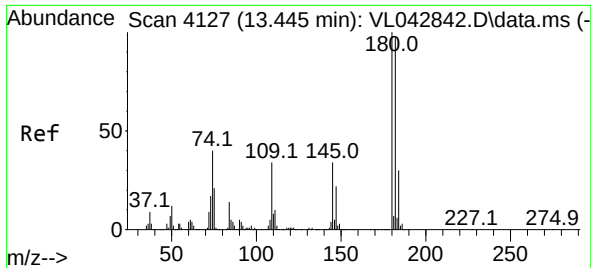
Reviewed By :Semsettin Yesilyurt 08/14/2025  
Supervised By :Mahesh Dadoda 08/18/2025



#80  
Naphthalene,2-methyl-  
Concen: 8.188 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

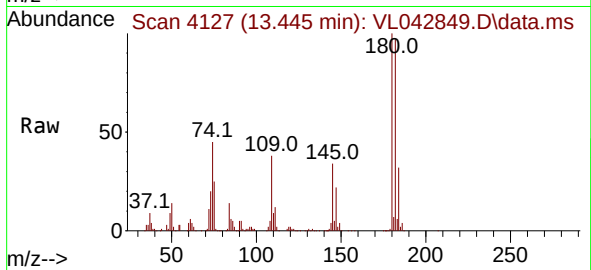
Tgt Ion:142 Resp: 145644  
Ion Ratio Lower Upper  
142 100  
141 81.9 67.0 100.6  
115 40.2 30.9 46.3





#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.016 ppbv  
 RT: 13.445 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

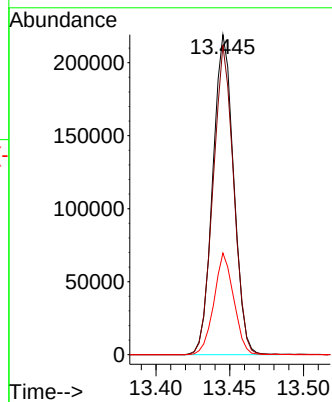
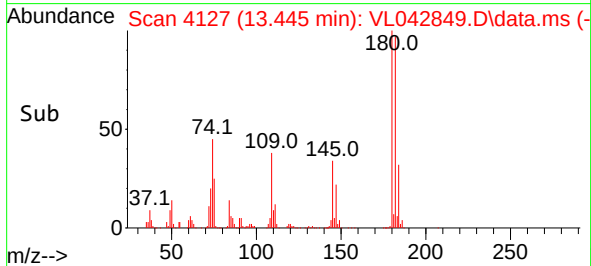
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325



Tgt Ion:180 Resp: 215715  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 76.9 115.3  
 184 30.1 24.5 36.7

Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 08/14/2025  
 Supervised By :Mahesh Dadoda 08/18/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
Data File : VL042849.D  
Acq On : 13 Aug 2025 12:56  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

Quant Time: Aug 14 02:16:09 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Aug 14 02:12:54 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF   | %Dev | Area% | Dev(min) |
|------|-----------------------------|-------|--------|------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000  | 0.0  | 92    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.466 | 1.334  | 9.0  | 91    | 0.00     |
| 3    | Chlorodifluoromethane       | 1.620 | 1.511  | 6.7  | 92    | 0.00     |
| 4    | Chloromethane               | 0.591 | 0.520  | 12.0 | 90    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.582 | 0.479  | 17.7 | 88    | 0.00     |
| 6 T  | Bromomethane                | 0.233 | 0.205  | 12.0 | 93    | 0.00     |
| 7    | Chloroethane                | 0.227 | 0.190  | 16.3 | 87    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.199 | 1.109  | 7.5  | 91    | 0.00     |
| 9 T  | Propene                     | 0.700 | 0.624  | 10.9 | 88    | 0.00     |
| 10 T | Heptane                     | 1.874 | 1.685  | 10.1 | 90    | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.446 | 1.259  | 12.9 | 91    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.152 | 1.017  | 11.7 | 89    | 0.00     |
| 13   | Ethanol                     | 0.064 | 0.049# | 23.4 | 97    | 0.00     |
| 14 T | Bromoethene                 | 0.417 | 0.380  | 8.9  | 92    | 0.00     |
| 15 T | Acetone                     | 1.323 | 0.977  | 26.2 | 95    | 0.00     |
| 16 T | 1,3-Butadiene               | 0.600 | 0.497  | 17.2 | 91    | 0.00     |
| 17   | tert-Butyl alcohol          | 1.569 | 1.359  | 13.4 | 91    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.507 | 0.460  | 9.3  | 90    | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.790 | 0.644  | 18.5 | 91    | 0.00     |
| 20 T | Methylene Chloride          | 0.554 | 0.390  | 29.6 | 87    | 0.00     |
| 21 T | Allyl Chloride              | 0.935 | 0.837  | 10.5 | 91    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.586 | 0.522  | 10.9 | 89    | 0.00     |
| 23 T | Vinyl Acetate               | 1.819 | 1.617  | 11.1 | 89    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.171 | 1.042  | 11.0 | 92    | 0.00     |
| 25 T | Ethyl Acetate               | 3.202 | 2.958  | 7.6  | 93    | 0.00     |
| 26 T | Hexane                      | 1.478 | 1.366  | 7.6  | 90    | 0.00     |
| 27 T | Carbon Disulfide            | 1.438 | 1.271  | 11.6 | 89    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.754 | 0.670  | 11.1 | 93    | 0.00     |
| 29 T | Chloroform                  | 2.110 | 1.978  | 6.3  | 94    | 0.00     |
| 30 T | Cyclohexane                 | 1.296 | 1.204  | 7.1  | 91    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.476 | 1.357  | 8.1  | 93    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.230 | 2.064  | 7.4  | 95    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0  | 91    | 0.00     |
| 34 T | 2-Butanone                  | 0.675 | 0.617  | 8.6  | 92    | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.689 | 0.653  | 5.2  | 93    | 0.00     |
| 36 T | Benzene                     | 0.958 | 0.919  | 4.1  | 91    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.500 | 0.500  | 0.0  | 94    | 0.00     |
| 38 T | Trichloroethene             | 0.437 | 0.402  | 8.0  | 91    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.350 | 0.330  | 5.7  | 92    | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.166 | 0.148  | 10.8 | 90    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.376 | 0.353  | 6.1  | 90    | 0.00     |
| 42 T | Bromodichloromethane        | 0.745 | 0.721  | 3.2  | 92    | 0.00     |
| 43   | Methyl Methacrylate         | 0.394 | 0.364  | 7.6  | 90    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.625 | 1.510  | 7.1  | 90    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.445 | 0.429  | 3.6  | 91    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.555 | 0.534  | 3.8  | 90    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.371 | 0.354  | 4.6  | 94    | 0.00     |
| 48 T | Dibromochloromethane        | 0.600 | 0.582  | 3.0  | 90    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042849.D  
 Acq On : 13 Aug 2025 12:56  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 02:12:54 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|------|---------------------------|-------|-------|------|-------|----------|
| 49 T | Bromoform                 | 0.495 | 0.467 | 5.7  | 86    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.913 | 0.861 | 5.7  | 88    | 0.00     |
| 51 T | 2-Hexanone                | 0.718 | 0.703 | 2.1  | 91    | 0.00     |
| 52 T | Tetrachloroethene         | 0.346 | 0.296 | 14.5 | 86    | 0.00     |
| 53 T | Toluene                   | 1.138 | 1.063 | 6.6  | 90    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.542 | 0.516 | 4.8  | 92    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0  | 90    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.517 | 0.480 | 7.2  | 91    | 0.00     |
| 57 T | Chlorobenzene             | 0.951 | 0.892 | 6.2  | 91    | 0.00     |
| 58 T | Ethyl Benzene             | 1.765 | 1.661 | 5.9  | 91    | 0.00     |
| 59 T | m/p-Xylene                | 1.383 | 1.297 | 6.2  | 91    | 0.02     |
| 60 T | o-Xylene                  | 1.391 | 1.286 | 7.5  | 91    | 0.00     |
| 61 T | Styrene                   | 0.652 | 0.611 | 6.3  | 90    | 0.00     |
| 62   | Isopropylbenzene          | 2.033 | 1.872 | 7.9  | 91    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.765 | 0.675 | 11.8 | 90    | 0.00     |
| 64   | n-propylbenzene           | 0.519 | 0.474 | 8.7  | 90    | 0.00     |
| 65   | tert-Butylbenzene         | 1.793 | 1.604 | 10.5 | 90    | 0.00     |
| 66 T | Benzyl Chloride           | 0.228 | 0.206 | 9.6  | 81    | 0.00     |
| 67   | sec-Butylbenzene          | 2.516 | 2.287 | 9.1  | 92    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.750 | 0.756 | -0.8 | 90    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.160 | 1.903 | 11.9 | 90    | 0.00     |
| 70   | n-Butylbenzene            | 2.142 | 1.941 | 9.4  | 91    | 0.00     |
| 71   | 2-Chlorotoluene           | 1.579 | 1.455 | 7.9  | 92    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.687 | 1.575 | 6.6  | 91    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.434 | 1.306 | 8.9  | 91    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.574 | 1.408 | 10.5 | 91    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.895 | 0.824 | 7.9  | 89    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.905 | 0.813 | 10.2 | 88    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.876 | 0.766 | 12.6 | 88    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.718 | 0.559 | 22.1 | 88    | 0.00     |
| 79 T | Naphthalene               | 1.427 | 1.325 | 7.1  | 91    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.533 | 0.437 | 18.0 | 82    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.717 | 0.647 | 9.8  | 88    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
Data File : VL042849.D  
Acq On : 13 Aug 2025 12:56  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

Quant Time: Aug 14 02:16:09 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Aug 14 02:12:54 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|-----------------------------|--------|--------|------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0  | 92    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 9.105  | 8.9  | 91    | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.327  | 6.7  | 92    | 0.00     |
| 4    | Chloromethane               | 10.000 | 8.784  | 12.2 | 90    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 8.232  | 17.7 | 88    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 8.801  | 12.0 | 93    | 0.00     |
| 7    | Chloroethane                | 10.000 | 8.360  | 16.4 | 87    | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.248  | 7.5  | 91    | 0.00     |
| 9 T  | Propene                     | 10.000 | 8.922  | 10.8 | 88    | 0.00     |
| 10 T | Heptane                     | 10.000 | 8.990  | 10.1 | 90    | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 8.707  | 12.9 | 91    | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 8.824  | 11.8 | 89    | 0.00     |
| 13   | Ethanol                     | 10.000 | 7.678  | 23.2 | 97    | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.105  | 8.9  | 92    | 0.00     |
| 15 T | Acetone                     | 10.000 | 7.389  | 26.1 | 95    | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 8.285  | 17.1 | 91    | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 8.663  | 13.4 | 91    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.087  | 9.1  | 90    | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.146  | 18.5 | 91    | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 7.041  | 29.6 | 87    | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 8.956  | 10.4 | 91    | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 8.904  | 11.0 | 89    | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 8.891  | 11.1 | 89    | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 8.903  | 11.0 | 92    | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 9.240  | 7.6  | 93    | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.246  | 7.5  | 90    | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 8.841  | 11.6 | 89    | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 8.898  | 11.0 | 93    | 0.00     |
| 29 T | Chloroform                  | 10.000 | 9.377  | 6.2  | 94    | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.289  | 7.1  | 91    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.196  | 8.0  | 93    | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.256  | 7.4  | 95    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0  | 91    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 9.135  | 8.7  | 92    | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.478  | 5.2  | 93    | 0.00     |
| 36 T | Benzene                     | 10.000 | 9.592  | 4.1  | 91    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 9.991  | 0.1  | 94    | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 9.202  | 8.0  | 91    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.436  | 5.6  | 92    | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 8.879  | 11.2 | 90    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.372  | 6.3  | 90    | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 9.678  | 3.2  | 92    | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 9.229  | 7.7  | 90    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.290  | 7.1  | 90    | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 9.645  | 3.6  | 91    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 9.628  | 3.7  | 90    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 9.553  | 4.5  | 94    | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 9.708  | 2.9  | 90    | 0.00     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
Data File : VL042849.D  
Acq On : 13 Aug 2025 12:56  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

Quant Time: Aug 14 02:16:09 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Thu Aug 14 02:12:54 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev | Area% | Dev(min) |
|------|---------------------------|--------|--------|------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 9.446  | 5.5  | 86    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 9.430  | 5.7  | 88    | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 9.791  | 2.1  | 91    | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 8.544  | 14.6 | 86    | 0.00     |
| 53 T | Toluene                   | 10.000 | 9.340  | 6.6  | 90    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 9.535  | 4.6  | 92    | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0  | 90    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.291  | 7.1  | 91    | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 9.378  | 6.2  | 91    | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 9.414  | 5.9  | 91    | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 18.754 | 6.2  | 91    | 0.02     |
| 60 T | o-Xylene                  | 10.000 | 9.239  | 7.6  | 91    | 0.00     |
| 61 T | Styrene                   | 10.000 | 9.377  | 6.2  | 90    | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 9.206  | 7.9  | 91    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 8.826  | 11.7 | 90    | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 9.145  | 8.6  | 90    | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 8.946  | 10.5 | 90    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 9.031  | 9.7  | 81    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 9.088  | 9.1  | 92    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.086 | -0.9 | 90    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 8.810  | 11.9 | 90    | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 9.062  | 9.4  | 91    | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 9.214  | 7.9  | 92    | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 9.338  | 6.6  | 91    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 9.108  | 8.9  | 91    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 8.943  | 10.6 | 91    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 9.209  | 7.9  | 89    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 8.976  | 10.2 | 88    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 8.736  | 12.6 | 88    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 7.778  | 22.2 | 88    | 0.00     |
| 79 T | Naphthalene               | 10.000 | 9.284  | 7.2  | 91    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 8.188  | 18.1 | 82    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 9.016  | 9.8  | 88    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

VOLATILE CONTINUING CALIBRATION CHECK

|                     |                   |                        |                                     |
|---------------------|-------------------|------------------------|-------------------------------------|
| Lab Name:           | <u>Alliance</u>   | Contract:              | <u>APEX04</u>                       |
| Lab Code:           | <u>ACE</u>        | SDG No.:               | <u>Q3038</u>                        |
| Instrument ID:      | <u>MSVOA_L</u>    | Calibration Date/Time: | <u>09/08/2025</u> <u>11:05</u>      |
| Lab File ID:        | <u>VL042900.D</u> | Init. Calib. Date(s):  | <u>08/13/2025</u> <u>08/13/2025</u> |
| Heated Purge: (Y/N) | <u>N</u>          | Init. Calib. Time(s):  | <u>08:30</u> <u>12:06</u>           |
| GC Column:          | <u>RTX-1</u>      | ID:                    | <u>0.32</u> (mm)                    |

| COMPOUND                | RRF   | RRF010 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| Vinyl Chloride          | 0.582 | 0.560  |            | -3.78 | 30    |
| 1,2-Dichloroethane      | 0.500 | 0.635  |            | 27    | 30    |
| Trichloroethene         | 0.437 | 0.455  |            | 4.12  | 30    |
| Tetrachloroethene       | 0.346 | 0.331  |            | -4.34 | 30    |
| 1-Bromo-4-Fluorobenzene | 0.750 | 0.786  |            | 4.8   | 30    |

All other compounds must meet a minimum RRF of 0.010.  
RRF of 1,4-Dioxane = Value should be divide by 1000.

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042900.D  
 Acq On : 08 Sep 2025 11:05  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025  
 Supervised By : Mahesh Dadoda 09/11/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.777  | 49    | 126678   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.943  | 114   | 333606   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.869  | 117   | 282770   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.364 | 95    | 222314   | 10.483   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 104.800% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.492  | 85    | 195136   | 10.511   | ppbv  | 100      |
| 3) Chlorodifluoromethane      | 1.470  | 51    | 223887   | 10.910   | ppbv  | 98       |
| 4) Chloromethane              | 1.528  | 50    | 74830    | 9.988    | ppbv  | 99       |
| 5) Vinyl Chloride             | 1.577  | 62    | 70899    | 9.609    | ppbv  | 99       |
| 6) Bromomethane               | 1.664  | 94    | 28498    | 9.659    | ppbv  | 99       |
| 7) Chloroethane               | 1.700  | 64    | 28496    | 9.889    | ppbv  | 89       |
| 8) Dichlorotetrafluoroethane  | 1.551  | 85    | 158303   | 10.420   | ppbv  | 96       |
| 9) Propene                    | 1.476  | 41    | 88702    | 10.009   | ppbv  | 99       |
| 10) Heptane                   | 4.959  | 43    | 234952   | 9.898    | ppbv  | 98       |
| 11) Trichlorofluoromethane    | 1.871  | 101   | 188309   | 10.280   | ppbv  | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.133  | 101   | 147287   | 10.089   | ppbv  | 96       |
| 13) Ethanol                   | 1.716  | 45    | 6525     | 8.052    | ppbv  | 98       |
| 14) Bromoethene               | 1.777  | 108   | 53755    | 10.171   | ppbv  | 99       |
| 15) Acetone                   | 1.829  | 43    | 145289   | 8.670    | ppbv  | 98       |
| 16) 1,3-Butadiene             | 1.602  | 39    | 70713    | 9.308    | ppbv  | 100      |
| 17) tert-Butyl alcohol        | 2.033  | 59    | 170394   | 8.574    | ppbv  | 99       |
| 18) 1,1-Dichloroethene        | 2.026  | 96    | 63544    | 9.900    | ppbv  | 94       |
| 19) Isopropyl Alcohol         | 1.881  | 45    | 89009    | 8.893    | ppbv  | 95       |
| 20) Methylene Chloride        | 2.056  | 84    | 57698    | 8.219    | ppbv  | 93       |
| 21) Allyl Chloride            | 2.088  | 41    | 114332   | 9.658    | ppbv  | 94       |
| 22) trans-1,2-Dichloroethene  | 2.331  | 96    | 74045    | 9.971    | ppbv  | 93       |
| 23) Vinyl Acetate             | 2.454  | 43    | 228268   | 9.907    | ppbv  | # 97     |
| 24) 1,1-Dichloroethane        | 2.402  | 63    | 152618   | 10.291   | ppbv  | 99       |
| 25) Ethyl Acetate             | 2.826  | 43    | 415386   | 10.242   | ppbv  | 99       |
| 26) Hexane                    | 2.816  | 57    | 187779   | 10.031   | ppbv  | 95       |
| 27) Carbon Disulfide          | 2.143  | 76    | 193262   | 10.608   | ppbv  | 98       |
| 28) Methyl tert-Butyl Ether   | 2.431  | 73    | 85774    | 8.986    | ppbv  | 93       |
| 29) Chloroform                | 2.839  | 83    | 281659   | 10.538   | ppbv  | 98       |
| 30) Cyclohexane               | 3.842  | 84    | 153066   | 9.326    | ppbv  | 96       |
| 31) cis-1,2-Dichloroethene    | 2.713  | 61    | 182592   | 9.765    | ppbv  | 99       |
| 32) 1,1,1-Trichloroethane     | 3.357  | 97    | 271429   | 9.609    | ppbv  | 96       |
| 34) 2-Butanone                | 2.548  | 43    | 272735   | 12.107   | ppbv  | 98       |
| 35) Carbon Tetrachloride      | 3.748  | 117   | 269097   | 11.700   | ppbv  | 99       |
| 36) Benzene                   | 3.645  | 78    | 366027   | 11.458   | ppbv  | 97       |
| 37) 1,2-Dichloroethane        | 3.208  | 62    | 211728   | 12.686   | ppbv  | 98       |
| 38) Trichloroethene           | 4.532  | 130   | 151915   | 10.413   | ppbv  | 95       |
| 39) 1,2-Dichloropropane       | 4.299  | 63    | 139657   | 11.970   | ppbv  | 96       |
| 40) 1,4-Dioxane               | 4.561  | 88    | 56013    | 10.096   | ppbv  | # 88     |
| 41) Tetrahydrofuran           | 3.043  | 42    | 148990   | 11.863   | ppbv  | 96       |
| 42) Bromodichloromethane      | 4.473  | 83    | 301814   | 12.136   | ppbv  | 98       |
| 43) Methyl Methacrylate       | 4.859  | 69    | 141813   | 10.776   | ppbv  | 95       |
| 44) 2,2,4-Trimethylpentane    | 4.622  | 57    | 631245   | 11.642   | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 6.393  | 75    | 154622   | 10.411   | ppbv  | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042900.D  
 Acq On : 08 Sep 2025 11:05  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

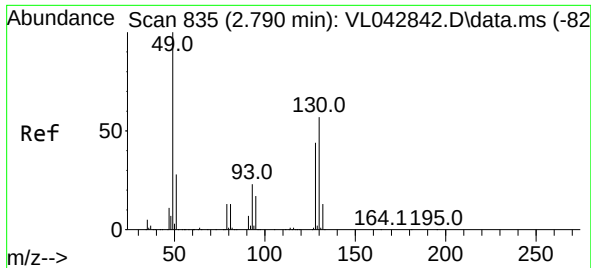
### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025  
 Supervised By : Mahesh Dadoda 09/11/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.580  | 75   | 200797   | 10.851 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.561  | 97   | 144209   | 11.666 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.370  | 129  | 228649   | 11.430 | ppbv   | 100      |
| 49) Bromoform                 | 9.471  | 173  | 184068   | 11.158 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.729  | 43   | 359329   | 11.801 | ppbv   | 96       |
| 51) 2-Hexanone                | 7.419  | 43   | 284454   | 11.872 | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.212  | 164  | 110334   | 9.547  | ppbv   | 98       |
| 53) Toluene                   | 6.914  | 91   | 402080   | 10.587 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.636  | 107  | 204276   | 11.307 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.914  | 131  | 170319   | 11.648 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.911  | 112  | 311373   | 11.581 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.345  | 91   | 558102   | 11.184 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.539  | 91   | 914783m  | 23.388 | ppbv   |          |
| 60) o-Xylene                  | 9.953  | 91   | 460968   | 11.716 | ppbv   | 100      |
| 61) Styrene                   | 9.859  | 104  | 195007   | 10.579 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.529 | 105  | 655164   | 11.394 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.953  | 83   | 266435   | 12.314 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.979 | 120  | 164610   | 11.220 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.523 | 119  | 561409   | 11.075 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.607 | 91   | 50803    | 7.895  | ppbv # | 98       |
| 67) sec-Butylbenzene          | 11.759 | 105  | 833114   | 11.709 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.918 | 119  | 667558   | 10.929 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.274 | 91   | 711012   | 11.736 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.892 | 91   | 498072   | 11.156 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.118 | 105  | 554411   | 11.624 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.196 | 105  | 450409   | 11.105 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.529 | 105  | 508605   | 11.424 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.597 | 146  | 289650   | 11.445 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.662 | 146  | 287352   | 11.226 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.940 | 146  | 281307   | 11.351 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.873 | 225  | 167893   | 8.266  | ppbv   | 99       |
| 79) Naphthalene               | 13.504 | 128  | 428355   | 10.613 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.449 | 142  | 127751   | 8.470  | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.432 | 180  | 207455   | 10.226 | ppbv   | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed





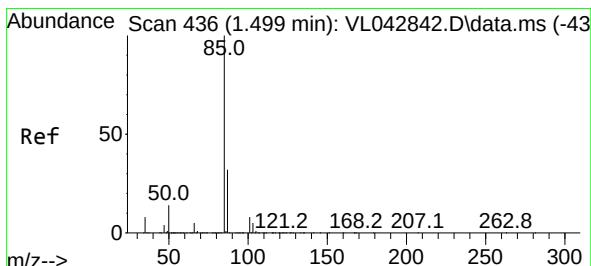
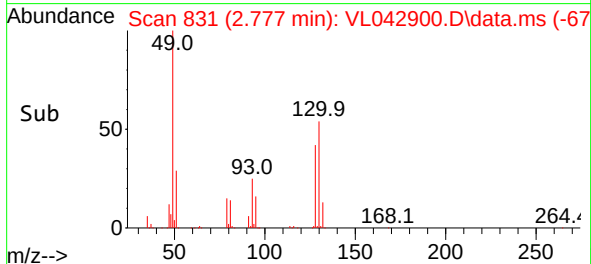
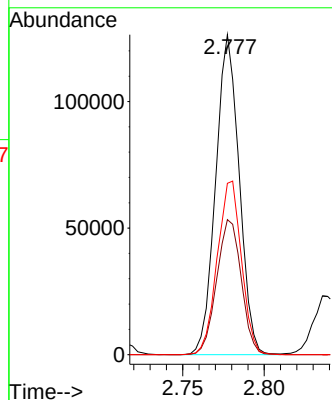
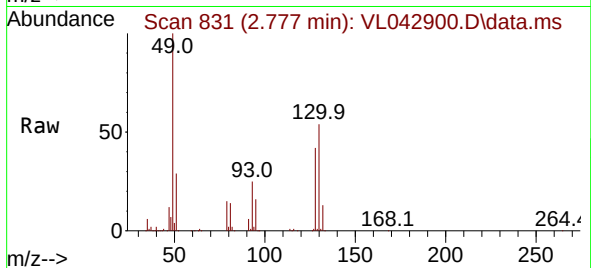
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.777 min Scan# 831  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 49 Resp: 126678  
Ion Ratio Lower Upper  
49 100  
128 44.1 23.7 71.1  
130 55.7 30.6 91.6

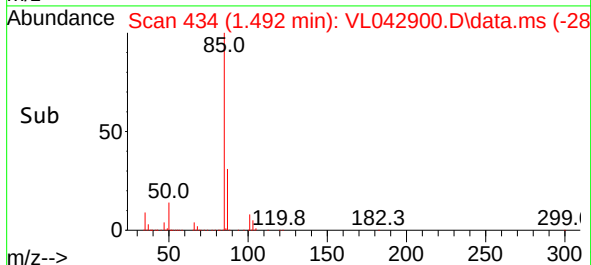
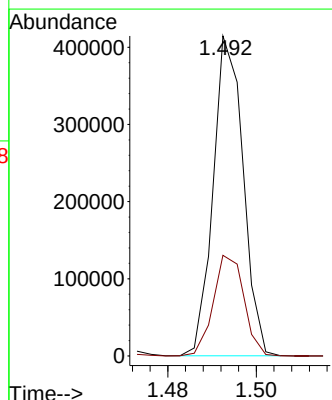
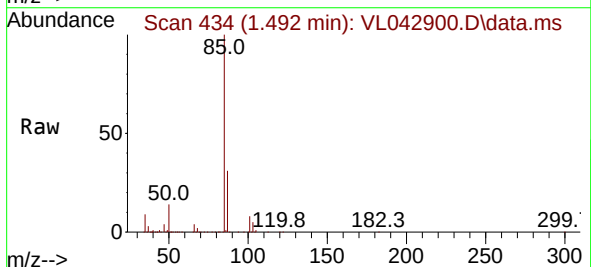
Manual Integrations  
APPROVED

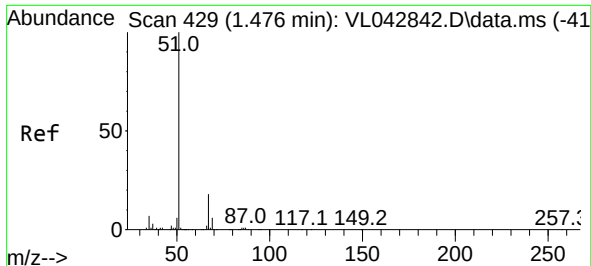
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#2  
Dichlorodifluoromethane  
Concen: 10.511 ppbv  
RT: 1.492 min Scan# 434  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 85 Resp: 195136  
Ion Ratio Lower Upper  
85 100  
87 31.4 25.3 37.9





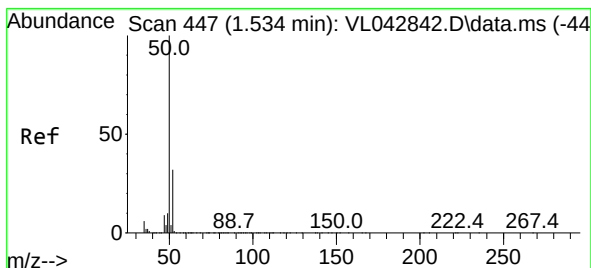
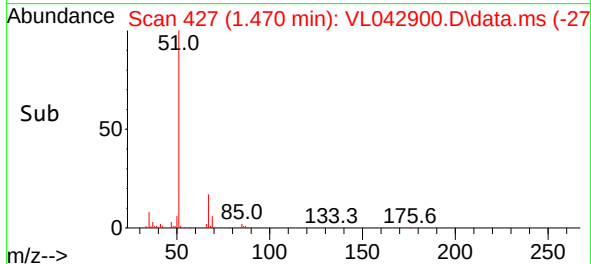
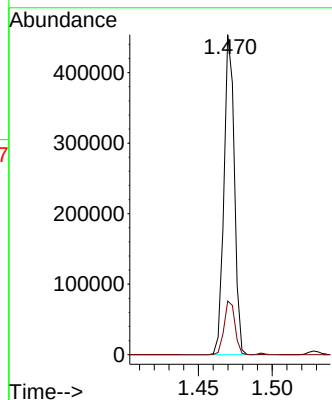
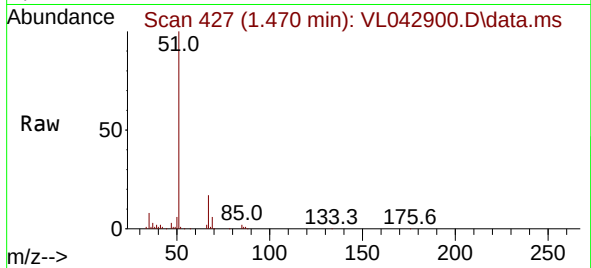
#3  
Chlorodifluoromethane  
Concen: 10.910 ppbv  
RT: 1.470 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 51 Resp: 22388  
Ion Ratio Lower Upper  
51 100  
67 17.5 14.9 22.3

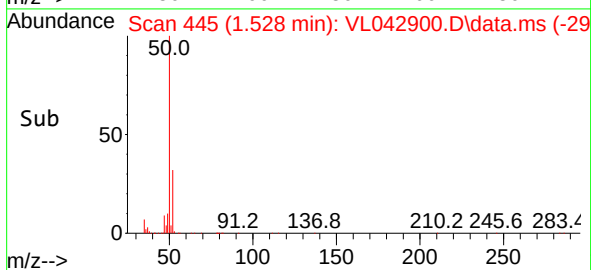
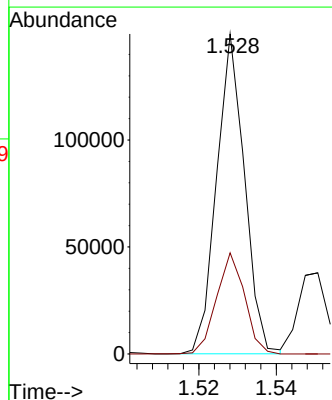
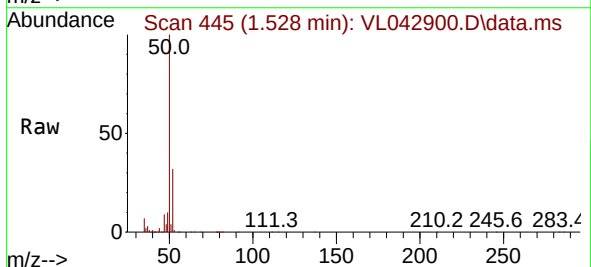
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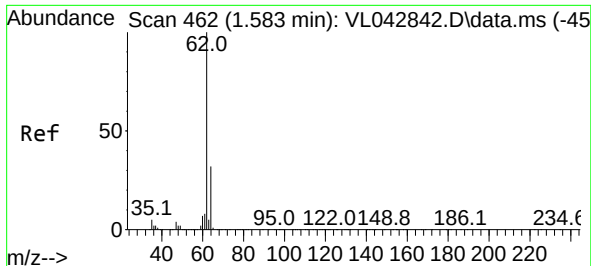
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#4  
Chloromethane  
Concen: 9.988 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 50 Resp: 74830  
Ion Ratio Lower Upper  
50 100  
52 31.6 25.9 38.9





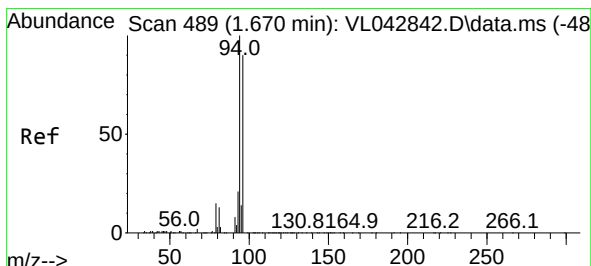
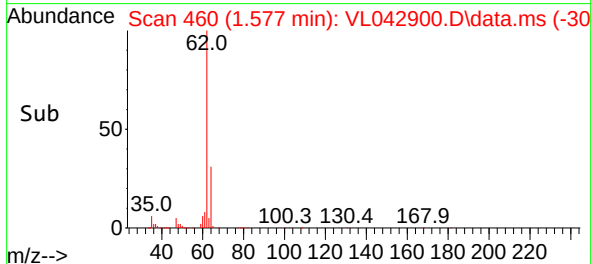
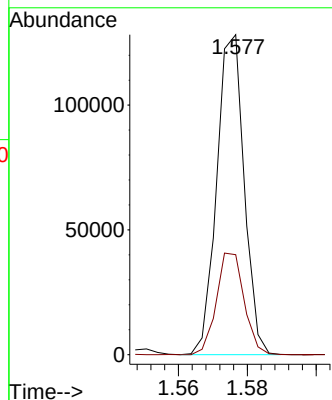
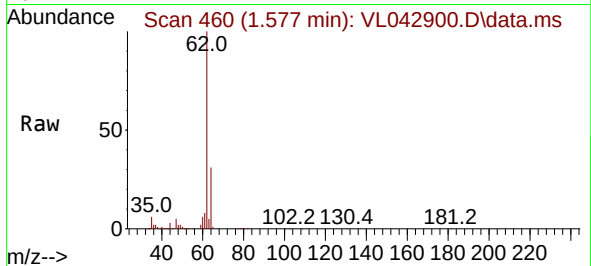
#5  
 Vinyl Chloride  
 Concen: 9.609 ppbv  
 RT: 1.577 min Scan# 460  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 62 Resp: 70899  
 Ion Ratio Lower Upper  
 62 100  
 64 31.3 25.4 38.2

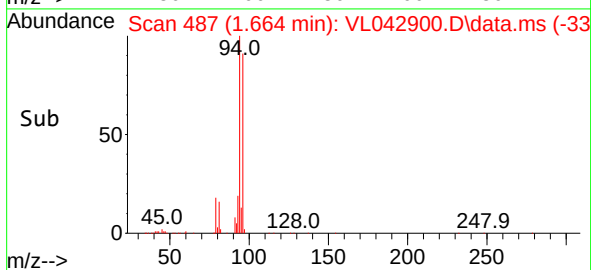
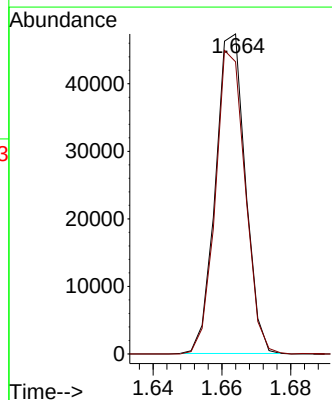
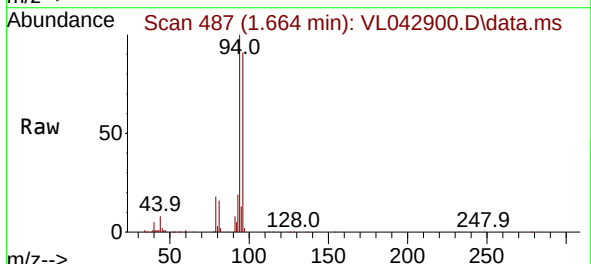
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

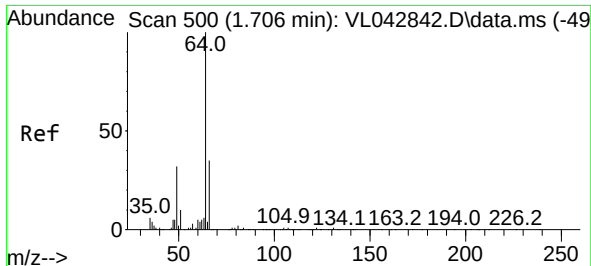


#6  
 Bromomethane  
 Concen: 9.659 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Tgt Ion: 94 Resp: 28498  
 Ion Ratio Lower Upper  
 94 100  
 96 91.4 72.1 108.1







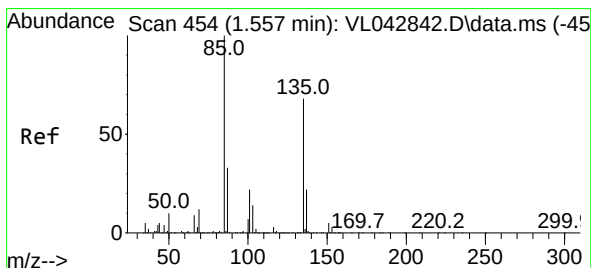
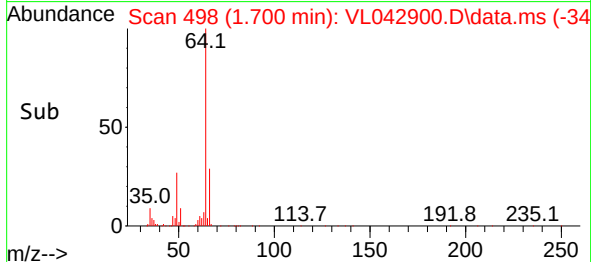
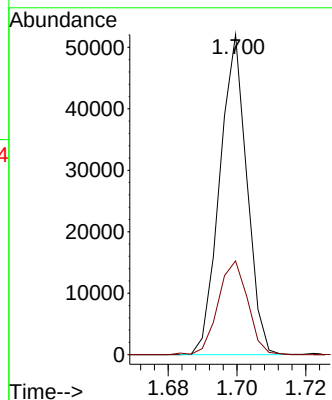
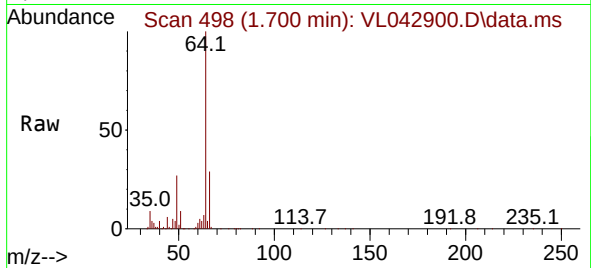
#7  
Chloroethane  
Concen: 9.889 ppbv  
RT: 1.700 min Scan# 498  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 64 Resp: 28490  
Ion Ratio Lower Upper  
64 100  
66 29.3 28.6 42.8

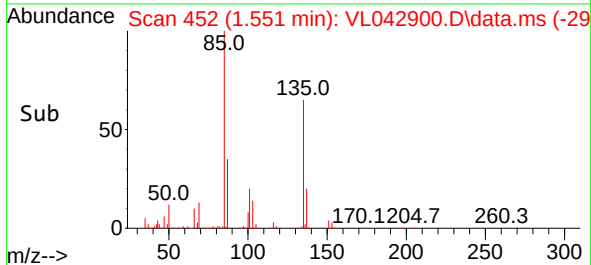
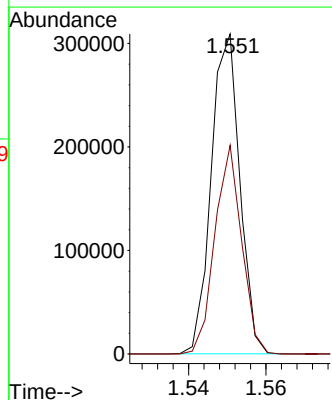
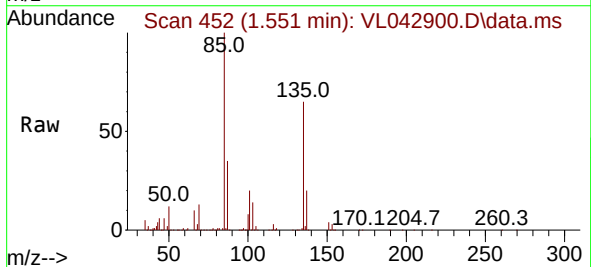
Manual Integrations  
APPROVED

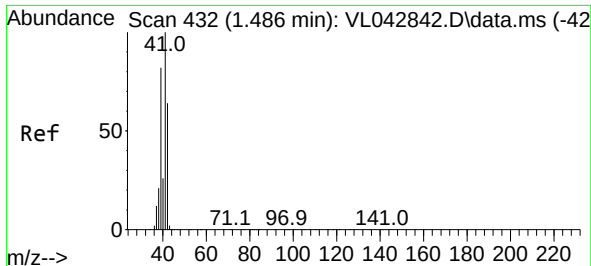
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#8  
Dichlorotetrafluoroethane  
Concen: 10.420 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 85 Resp: 158303  
Ion Ratio Lower Upper  
85 100  
135 61.2 51.2 76.8





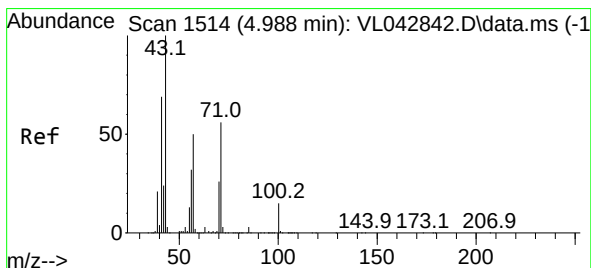
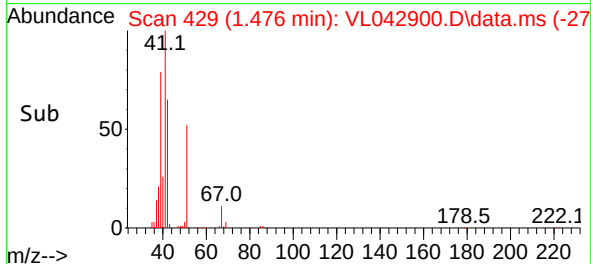
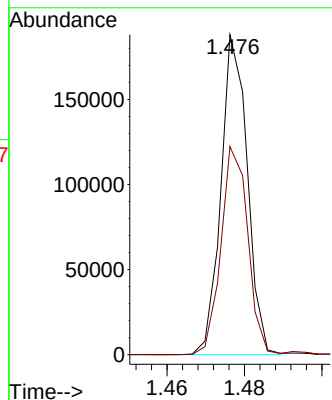
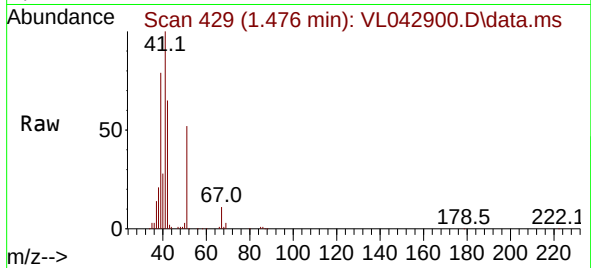
#9  
 Propene  
 Concen: 10.009 ppbv  
 RT: 1.476 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 41 Resp: 88702  
 Ion Ratio Lower Upper  
 41 100  
 42 67.1 53.0 79.4

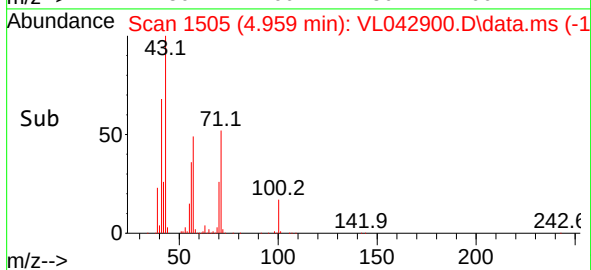
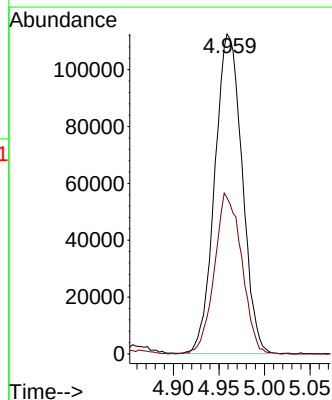
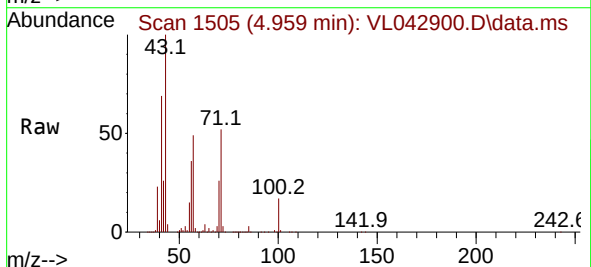
Manual Integrations  
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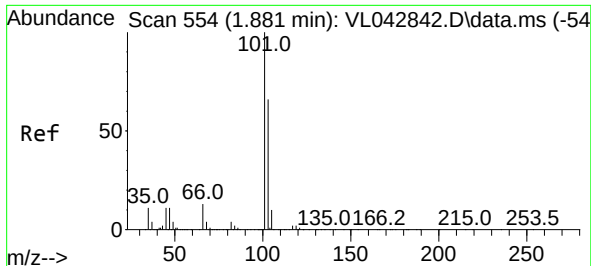
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025



#10  
 Heptane  
 Concen: 9.898 ppbv  
 RT: 4.959 min Scan# 1505  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 234952  
 Ion Ratio Lower Upper  
 43 100  
 57 50.2 41.4 62.0





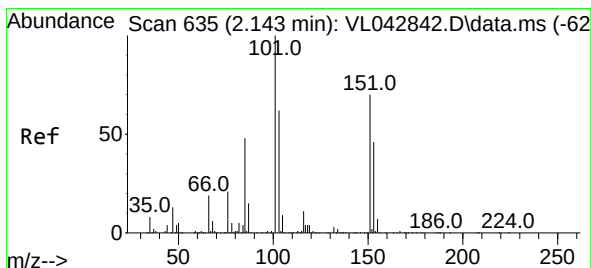
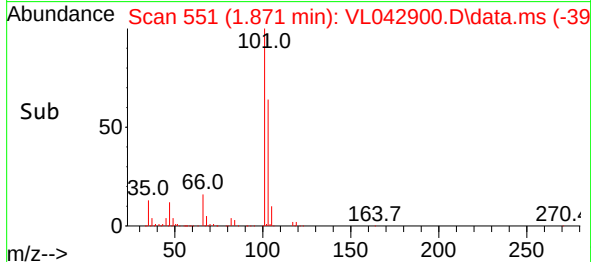
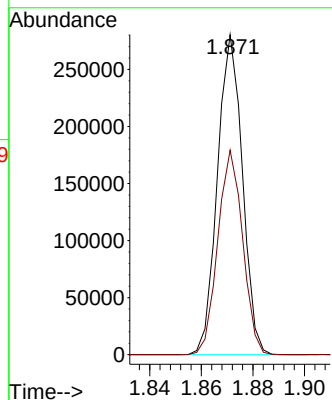
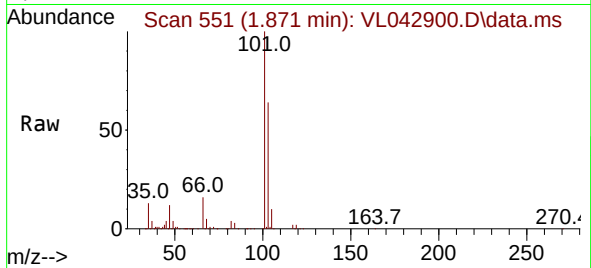
#11  
Trichlorofluoromethane  
Concen: 10.280 ppbv  
RT: 1.871 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:101 Resp: 188309  
Ion Ratio Lower Upper  
101 100  
103 63.9 52.5 78.7

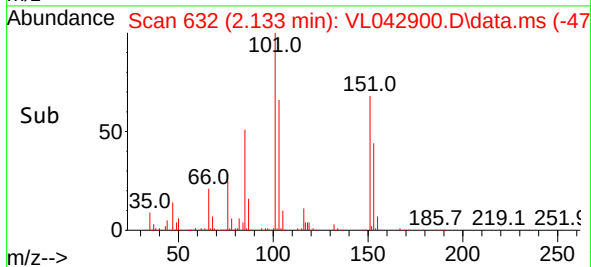
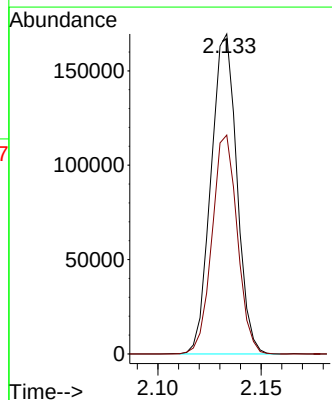
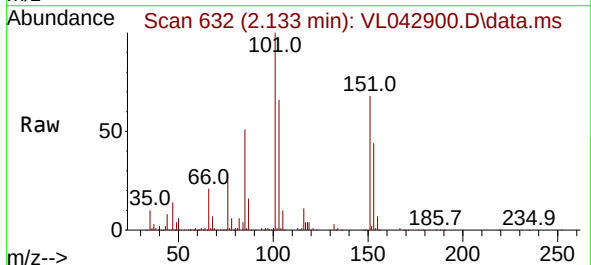
Manual Integrations  
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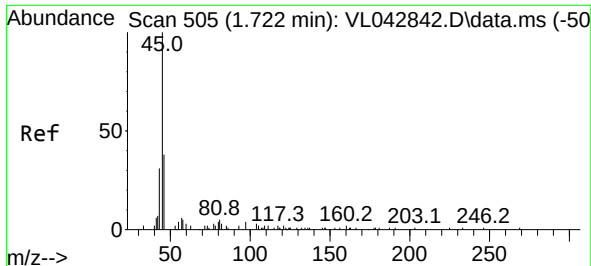
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 10.089 ppbv  
RT: 2.133 min Scan# 632  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion:101 Resp: 147287  
Ion Ratio Lower Upper  
101 100  
151 66.9 56.4 84.6





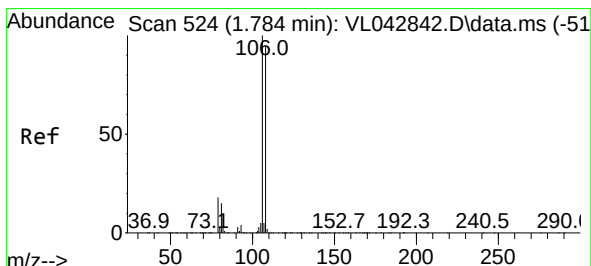
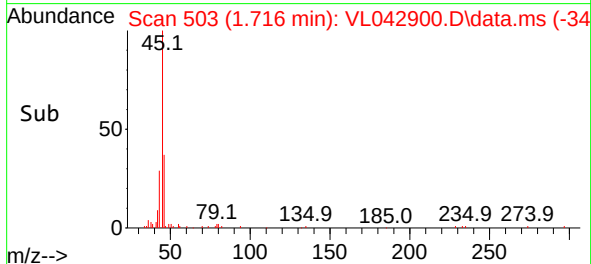
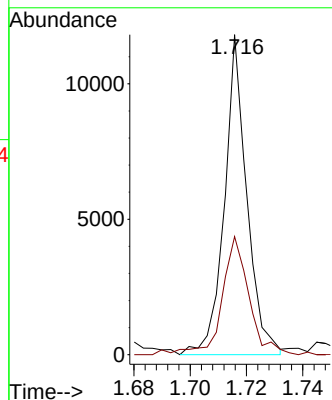
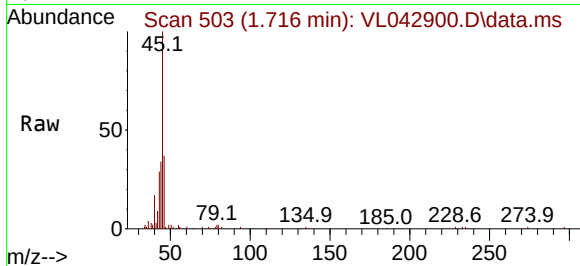
#13  
Ethanol  
Concen: 8.052 ppbv  
RT: 1.716 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 45 Resp: 6529  
Ion Ratio Lower Upper  
45 100  
46 44.8 17.5 69.9

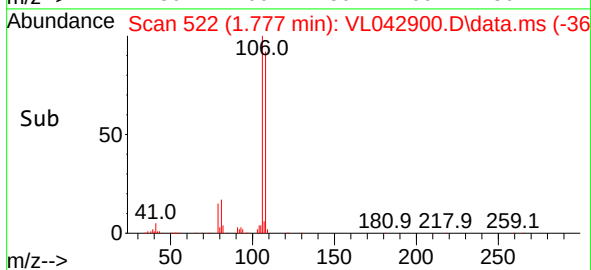
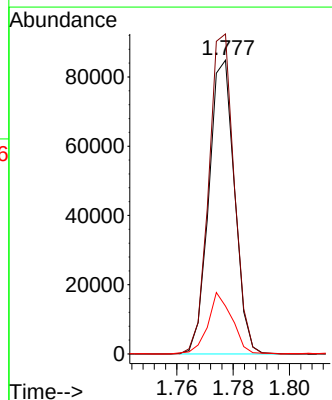
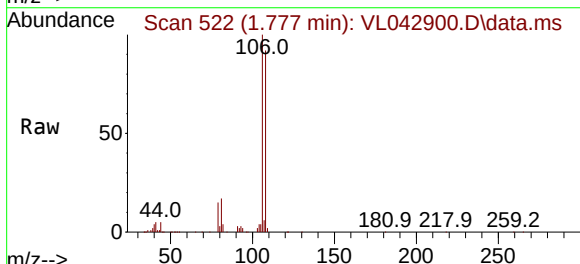
Manual Integrations  
APPROVED

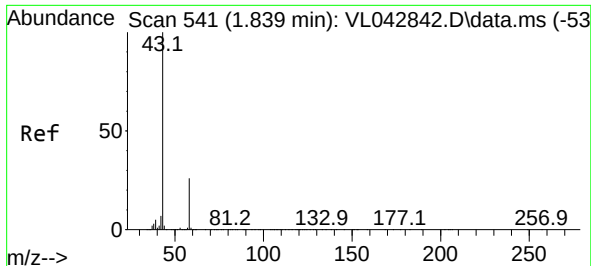
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#14  
Bromoethene  
Concen: 10.171 ppbv  
RT: 1.777 min Scan# 522  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion:108 Resp: 53755  
Ion Ratio Lower Upper  
108 100  
106 107.9 85.1 127.7  
79 19.9 16.3 24.5





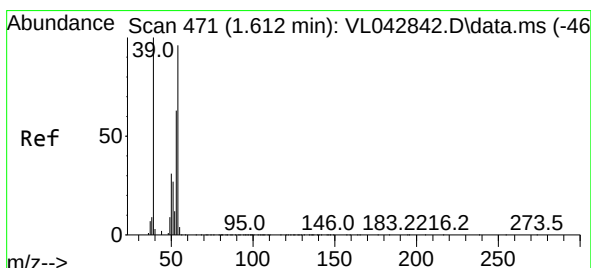
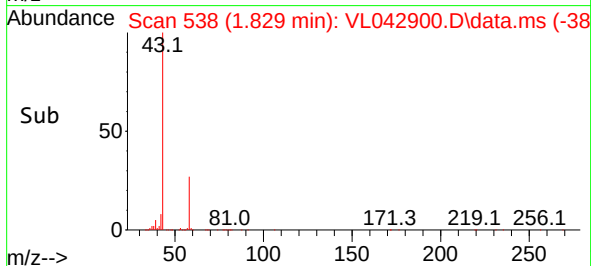
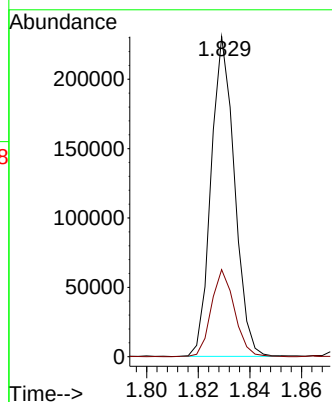
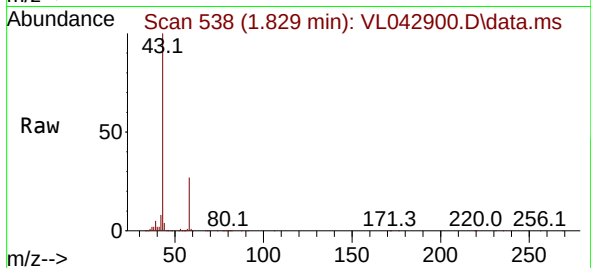
#15  
Acetone  
Concen: 8.670 ppbv  
RT: 1.829 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 43 Resp: 145289  
Ion Ratio Lower Upper  
43 100  
58 27.0 22.4 33.6

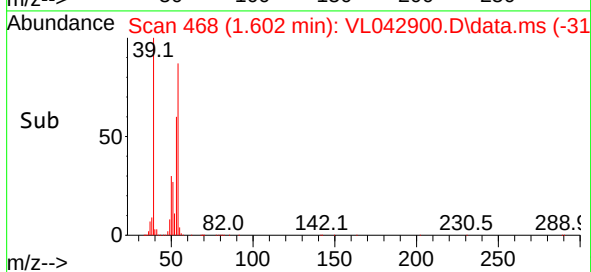
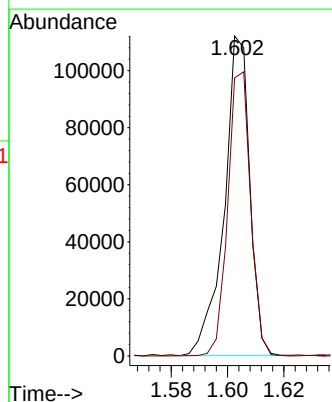
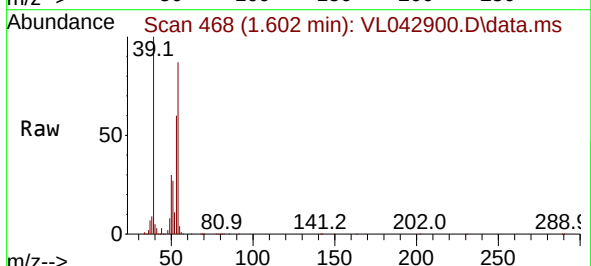
Manual Integrations  
APPROVED

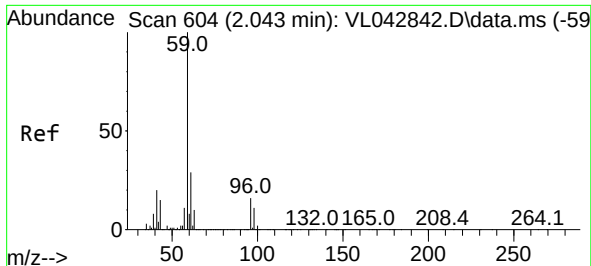
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#16  
1,3-Butadiene  
Concen: 9.308 ppbv  
RT: 1.602 min Scan# 468  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 39 Resp: 70713  
Ion Ratio Lower Upper  
39 100  
54 79.5 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.574 ppbv

RT: 2.033 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 59 Resp: 170394

Ion Ratio Lower Upper

59 100

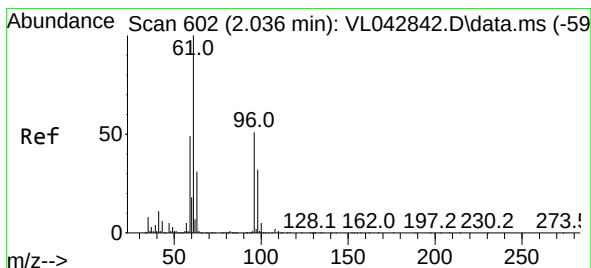
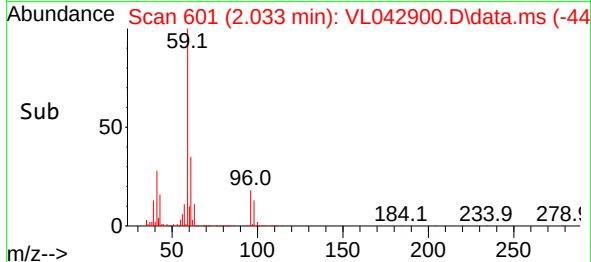
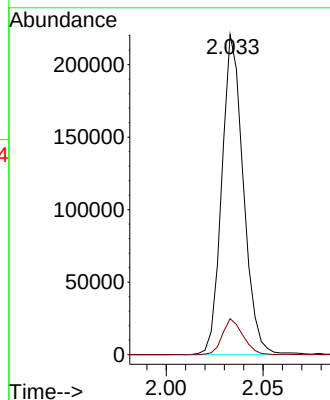
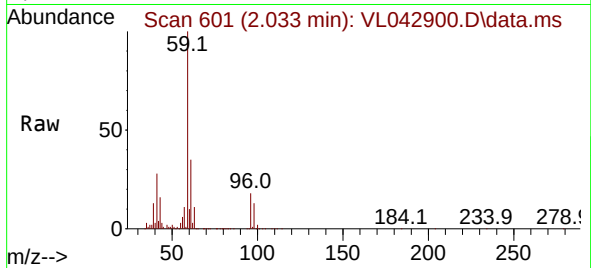
57 10.8 9.0 13.4

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#18

1,1-Dichloroethene

Concen: 9.900 ppbv

RT: 2.026 min Scan# 599

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

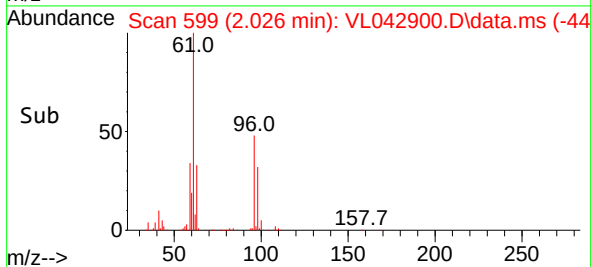
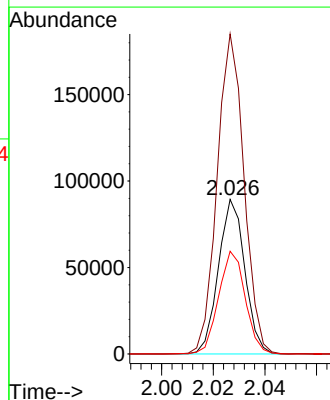
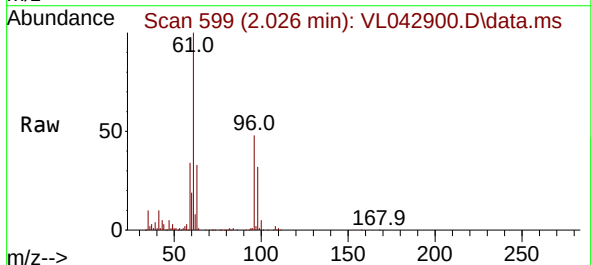
Tgt Ion: 96 Resp: 63544

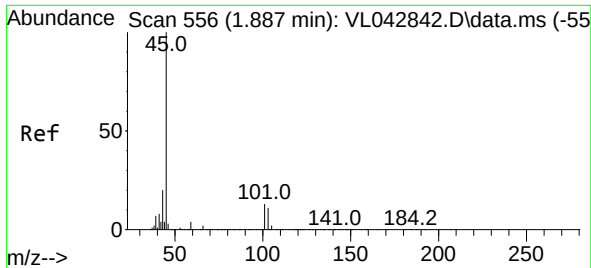
Ion Ratio Lower Upper

96 100

61 207.0 158.2 237.4

98 66.3 50.6 76.0





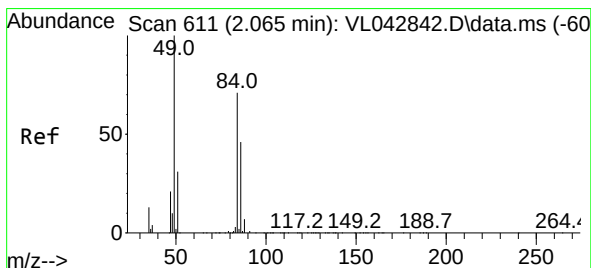
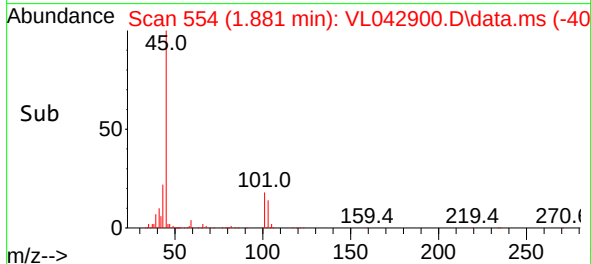
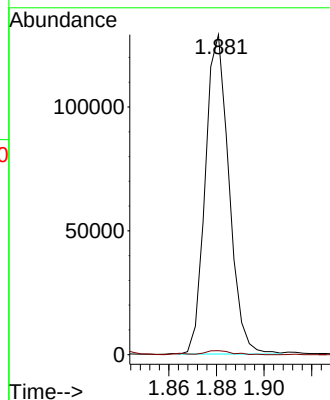
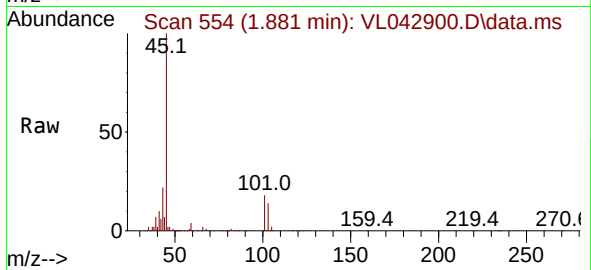
#19  
Isopropyl Alcohol  
Concen: 8.893 ppbv  
RT: 1.881 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 45 Resp: 89009  
Ion Ratio Lower Upper  
45 100  
58 44.1 32.7 49.1

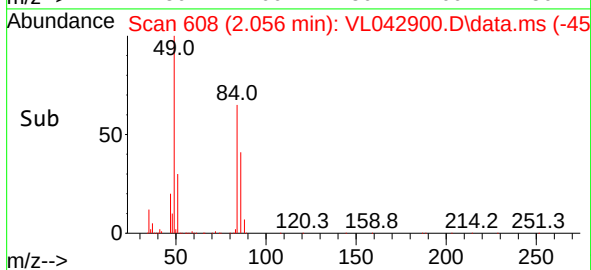
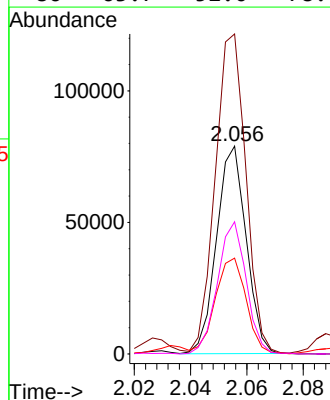
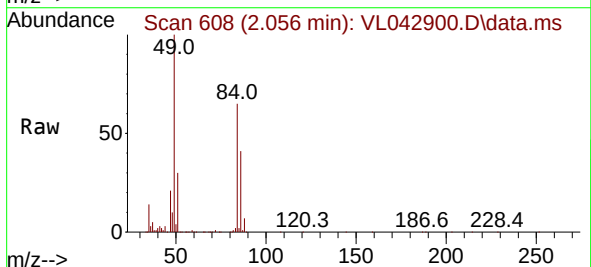
Manual Integrations  
APPROVED

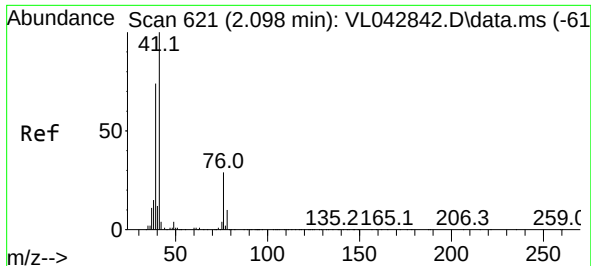
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#20  
Methylene Chloride  
Concen: 8.219 ppbv  
RT: 2.056 min Scan# 608  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

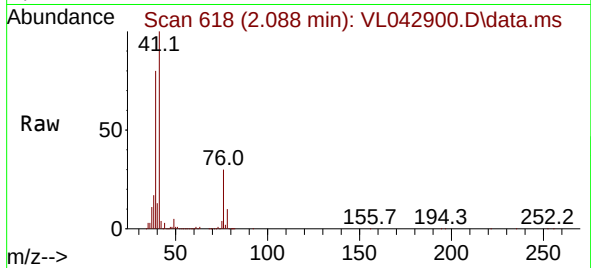
Tgt Ion: 84 Resp: 57698  
Ion Ratio Lower Upper  
84 100  
49 153.6 112.3 168.5  
51 45.6 36.0 54.0  
86 63.7 52.0 78.0





#21  
 Allyl Chloride  
 Concen: 9.658 ppbv  
 RT: 2.088 min Scan# 618  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

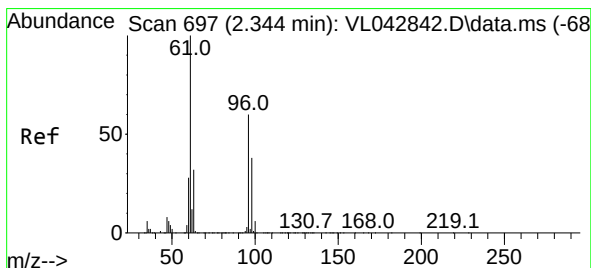
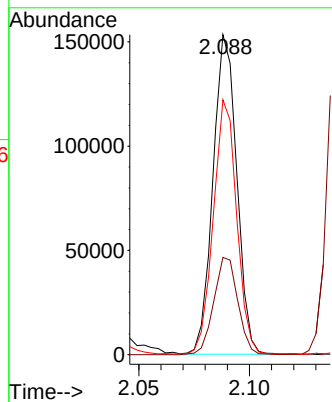
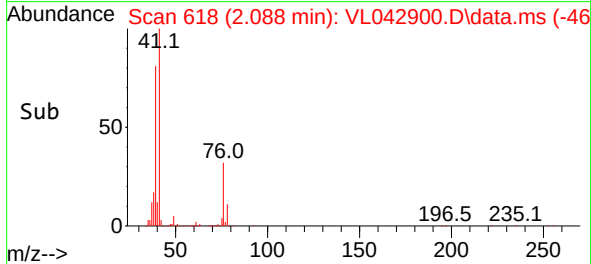
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



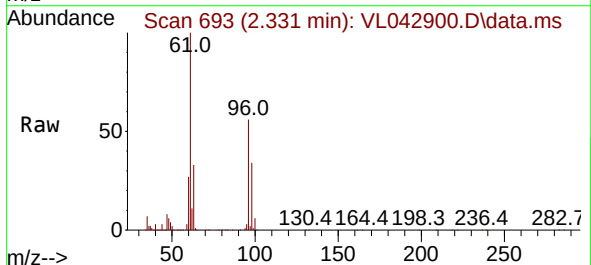
Tgt Ion: 41 Resp: 11433  
 Ion Ratio Lower Upper  
 41 100  
 76 30.9 23.9 35.9  
 39 78.4 57.8 86.6

Manual Integrations  
 APPROVED

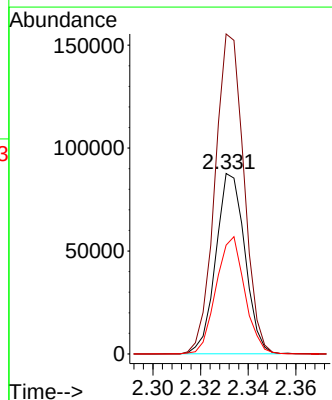
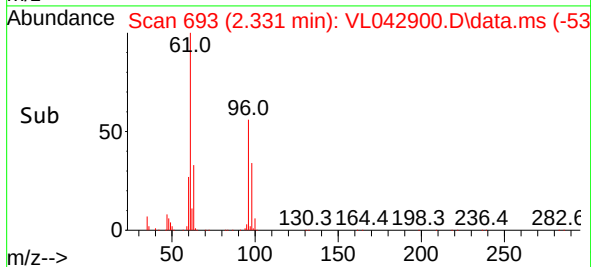
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025



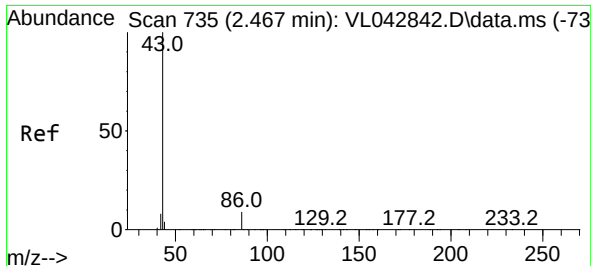
#22  
 trans-1,2-Dichloroethene  
 Concen: 9.971 ppbv  
 RT: 2.331 min Scan# 693  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05



Tgt Ion: 96 Resp: 74045  
 Ion Ratio Lower Upper  
 96 100  
 61 177.5 132.6 199.0  
 98 60.3 50.0 75.0

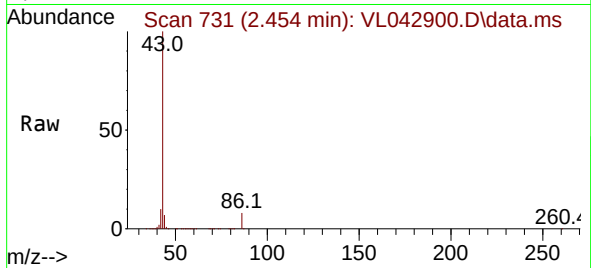






#23  
 Vinyl Acetate  
 Concen: 9.907 ppbv  
 RT: 2.454 min Scan# 715  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

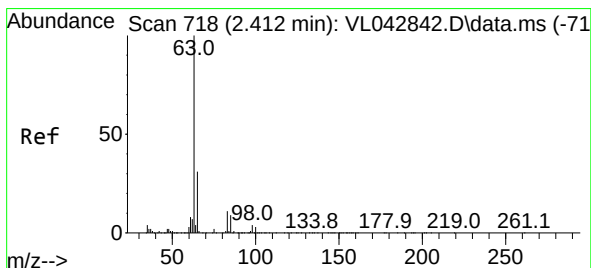
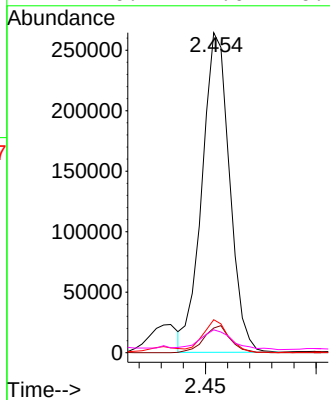
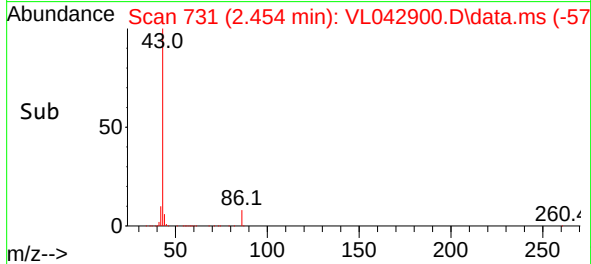
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



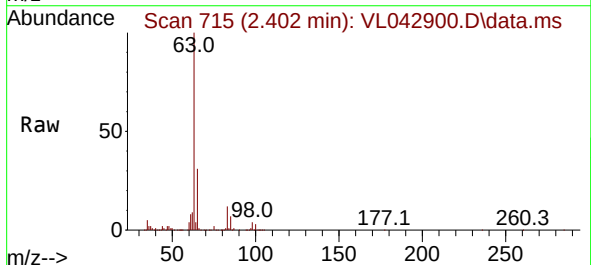
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 86      | 7.7   | 6.6   | 9.8   |
| 42      | 10.3  | 7.0   | 10.6  |
| 44      | 6.1   | 4.0   | 6.0   |

Manual Integrations  
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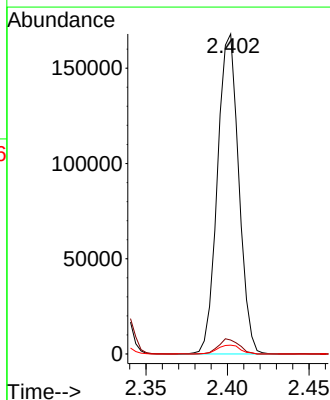
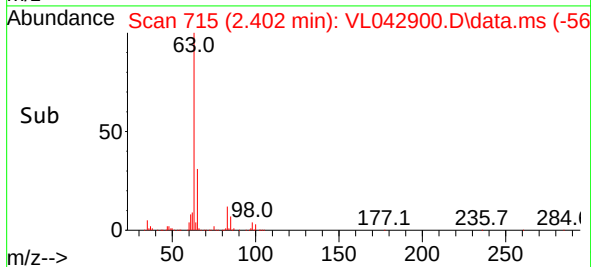
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

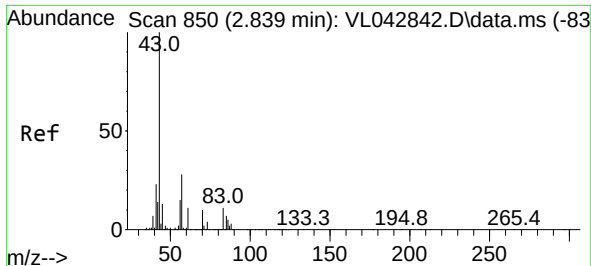


#24  
 1,1-Dichloroethane  
 Concen: 10.291 ppbv  
 RT: 2.402 min Scan# 715  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 63      | 100   |       |       |
| 98      | 4.4   | 2.1   | 6.5   |
| 100     | 2.7   | 1.7   | 5.1   |





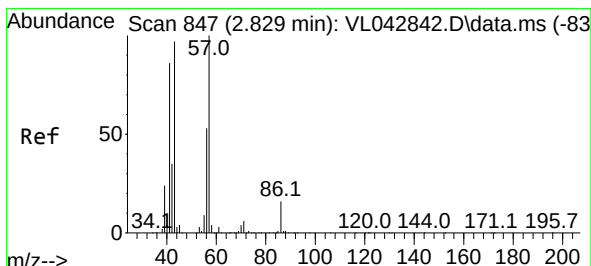
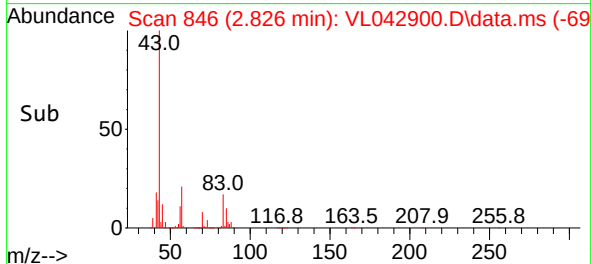
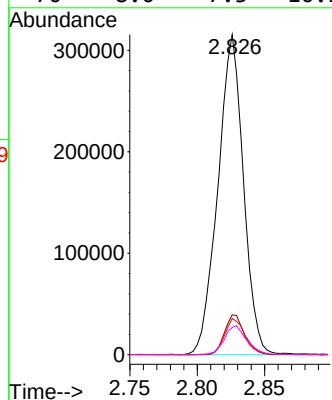
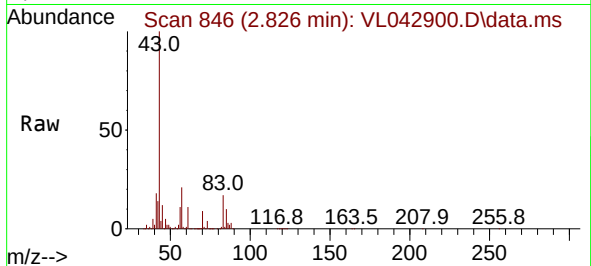
#25  
Ethyl Acetate  
Concen: 10.242 ppbv  
RT: 2.826 min Scan# 843  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

| Tgt Ion:  | 43  | Resp: | 415380 |
|-----------|-----|-------|--------|
| Ion Ratio | 100 | Lower | Upper  |
| 43        | 100 |       |        |
| 45        | 9.9 | 8.1   | 12.1   |
| 61        | 9.0 | 7.4   | 11.2   |
| 70        | 8.0 | 7.3   | 10.9   |

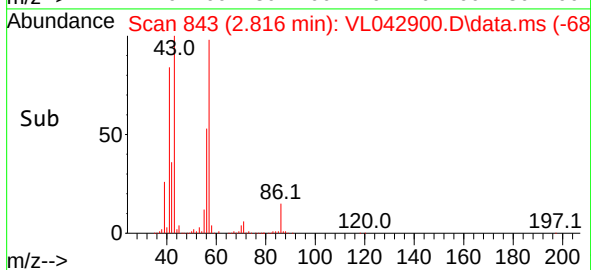
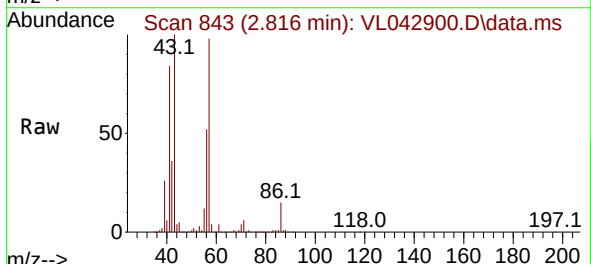
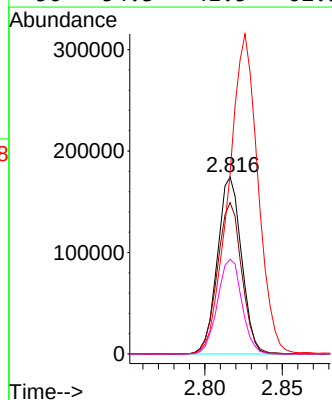
Manual Integrations  
APPROVED

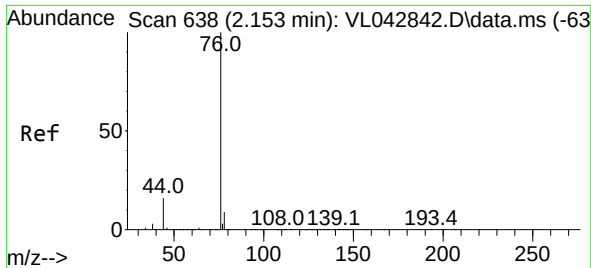
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#26  
Hexane  
Concen: 10.031 ppbv  
RT: 2.816 min Scan# 843  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

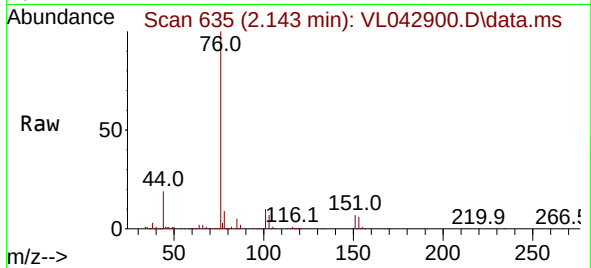
| Tgt Ion:  | 57    | Resp: | 187779 |
|-----------|-------|-------|--------|
| Ion Ratio | 100   | Lower | Upper  |
| 57        | 100   |       |        |
| 41        | 87.6  | 68.6  | 103.0  |
| 43        | 222.1 | 168.5 | 252.7  |
| 56        | 54.3  | 41.5  | 62.3   |





#27  
Carbon Disulfide  
Concen: 10.608 ppbv  
RT: 2.143 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

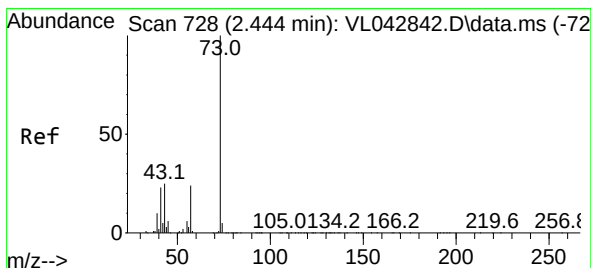
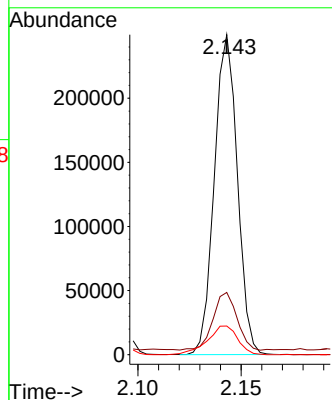
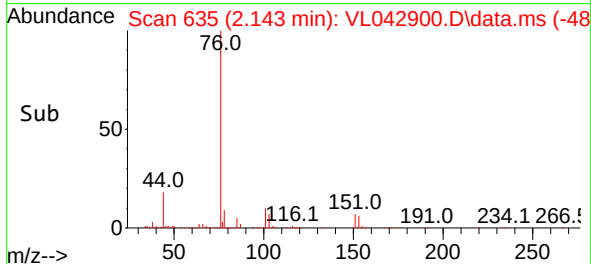
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



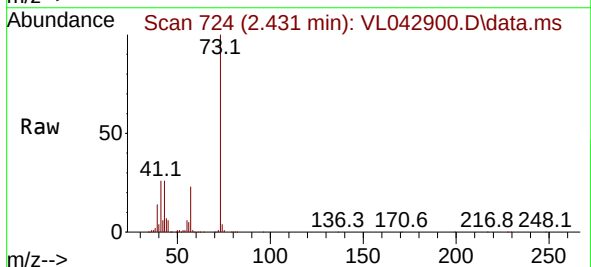
Tgt Ion: 76 Resp: 19326  
Ion Ratio Lower Upper  
76 100  
44 18.7 15.9 23.9  
78 11.8 9.5 14.3

Manual Integrations  
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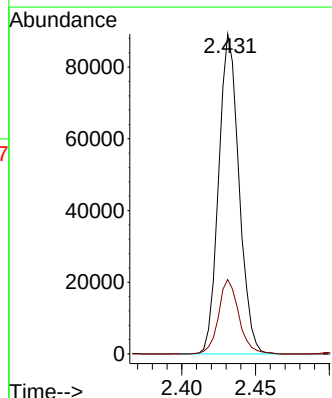
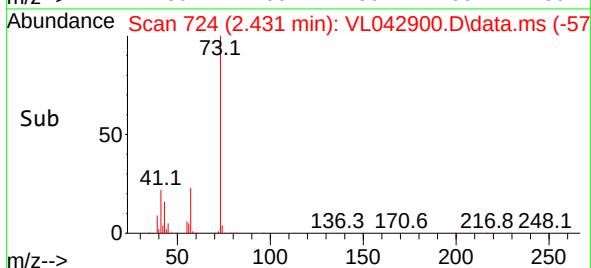
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

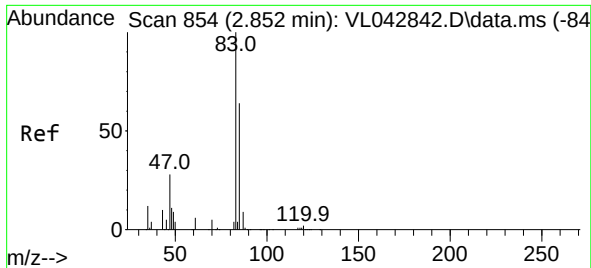


#28  
Methyl tert-Butyl Ether  
Concen: 8.986 ppbv  
RT: 2.431 min Scan# 724  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



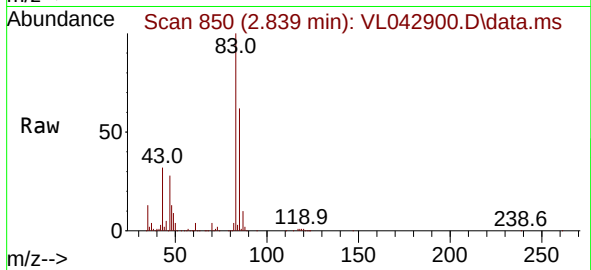
Tgt Ion: 73 Resp: 85774  
Ion Ratio Lower Upper  
73 100  
57 23.3 21.6 32.4





#29  
Chloroform  
Concen: 10.538 ppbv  
RT: 2.839 min Scan# 854  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

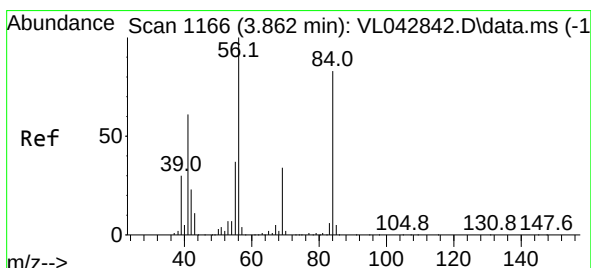
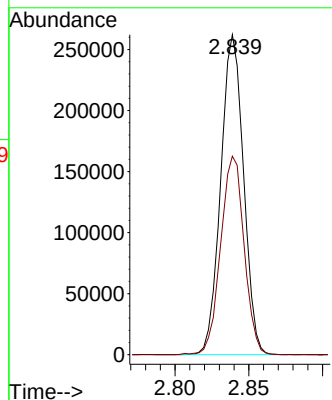
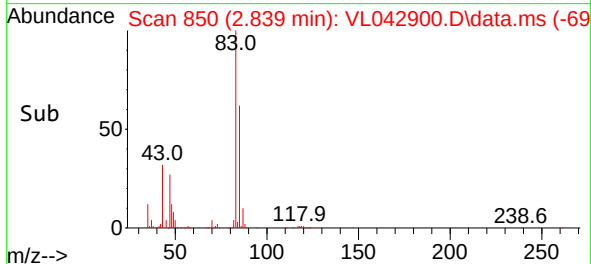
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



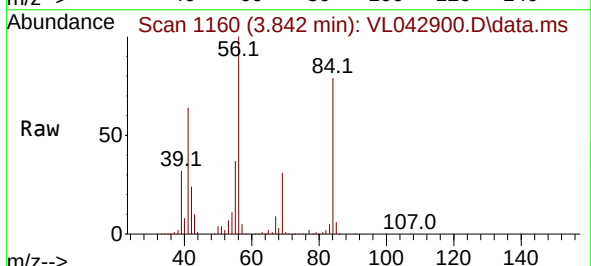
Tgt Ion: 83 Resp: 281659  
Ion Ratio Lower Upper  
83 100  
85 62.0 51.1 76.7

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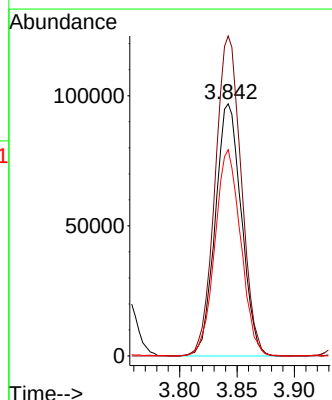
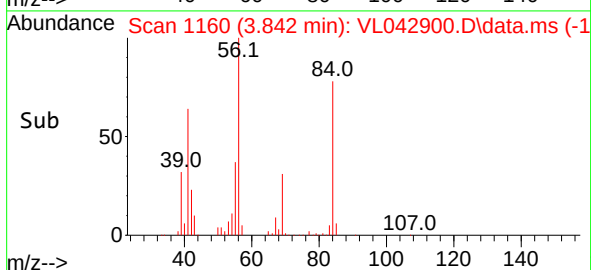
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

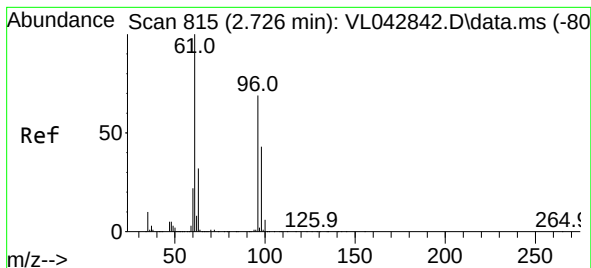


#30  
Cyclohexane  
Concen: 9.326 ppbv  
RT: 3.842 min Scan# 1160  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



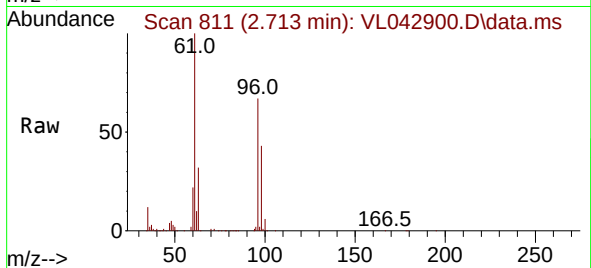
Tgt Ion: 84 Resp: 153066  
Ion Ratio Lower Upper  
84 100  
56 127.0 98.8 148.2  
41 81.3 61.3 91.9





#31  
 cis-1,2-Dichloroethene  
 Concen: 9.765 ppbv  
 RT: 2.713 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

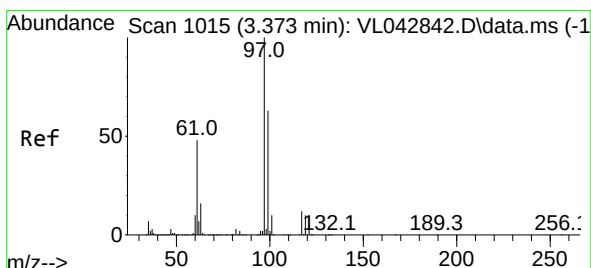
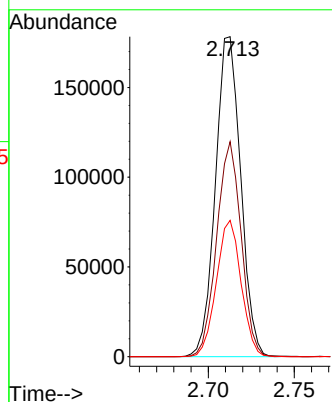
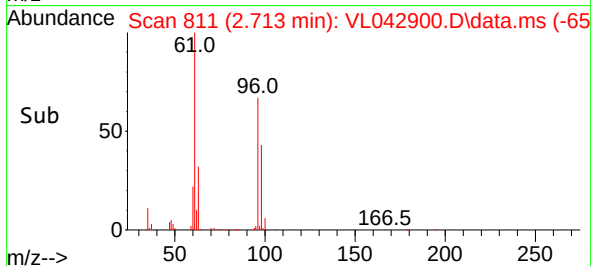
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



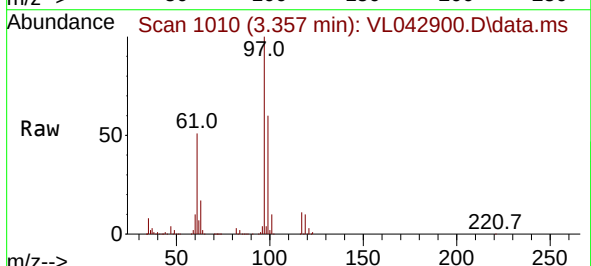
Tgt Ion: 61 Resp: 182592  
 Ion Ratio Lower Upper  
 61 100  
 96 67.1 55.0 82.6  
 98 42.6 34.3 51.5

Manual Integrations  
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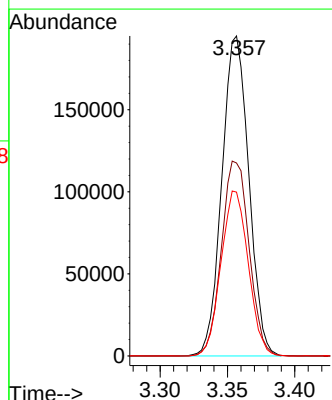
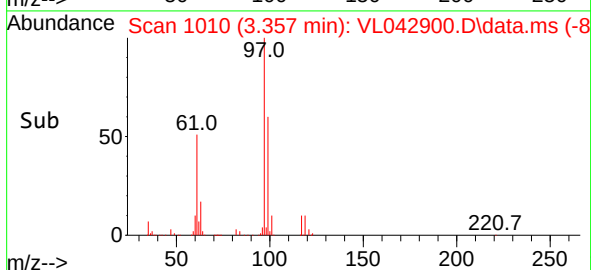
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

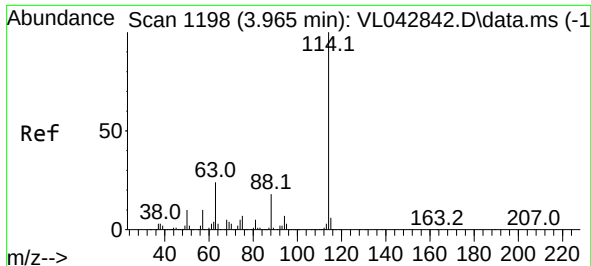


#32  
 1,1,1-Trichloroethane  
 Concen: 9.609 ppbv  
 RT: 3.357 min Scan# 1010  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05



Tgt Ion: 97 Resp: 271429  
 Ion Ratio Lower Upper  
 97 100  
 99 62.5 51.0 76.6  
 61 52.2 38.0 57.0





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.943 min Scan# 1191

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

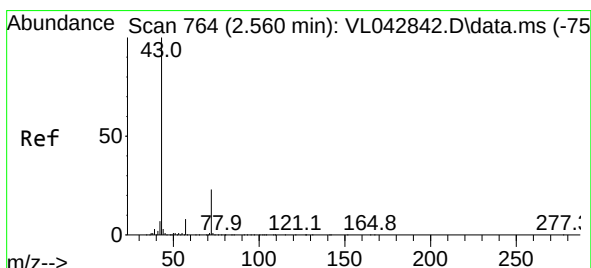
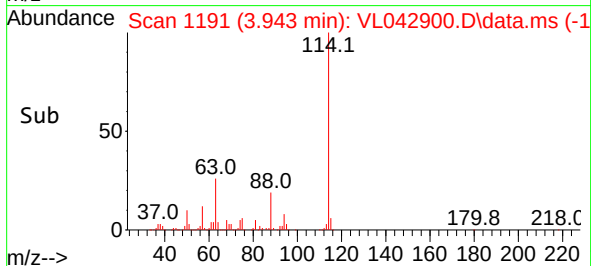
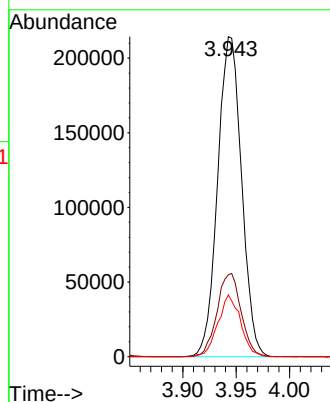
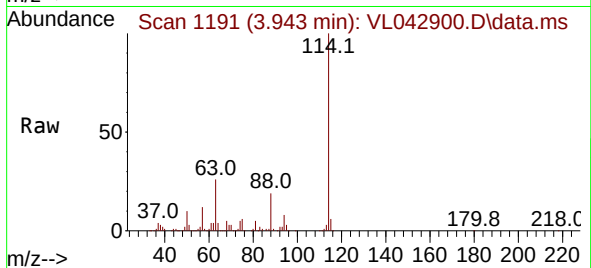
VSTDCCC010

Tgt Ion: 114 Resp: 333600  
 Ion Ratio Lower Upper  
 114 100  
 63 26.3 19.7 29.5  
 88 18.2 14.4 21.6

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025



#34

2-Butanone

Concen: 12.107 ppbv

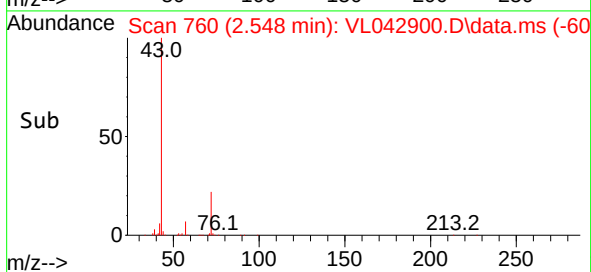
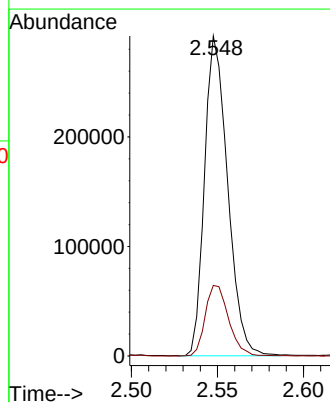
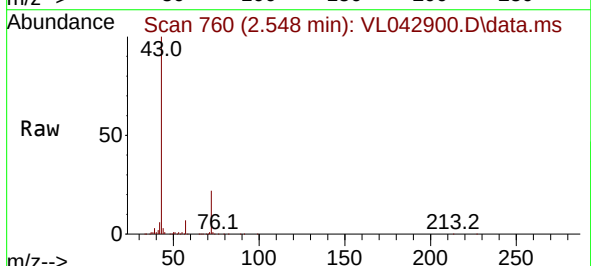
RT: 2.548 min Scan# 760

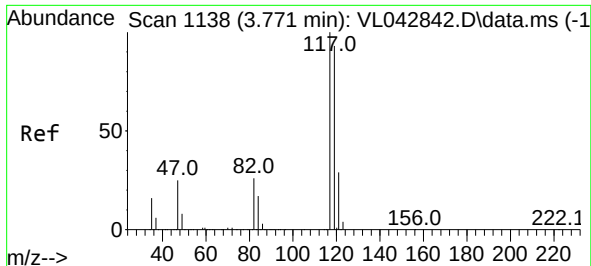
Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

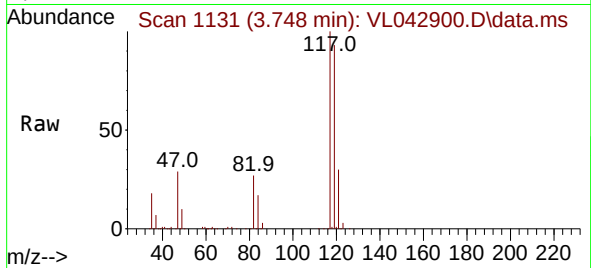
Tgt Ion: 43 Resp: 272735  
 Ion Ratio Lower Upper  
 43 100  
 72 22.4 18.6 28.0





#35  
Carbon Tetrachloride  
Concen: 11.700 ppbv  
RT: 3.748 min Scan# 1131  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

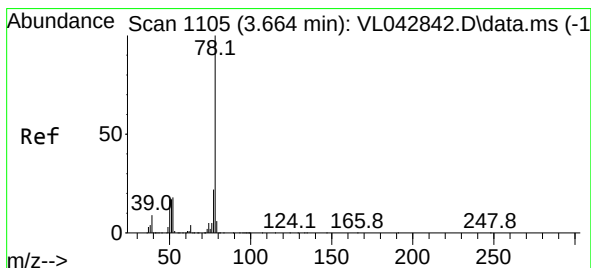
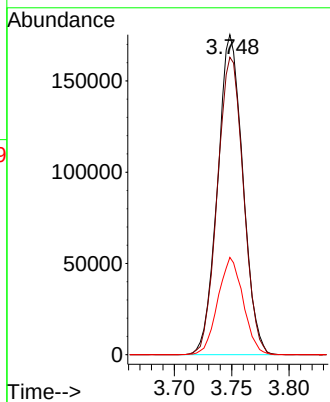
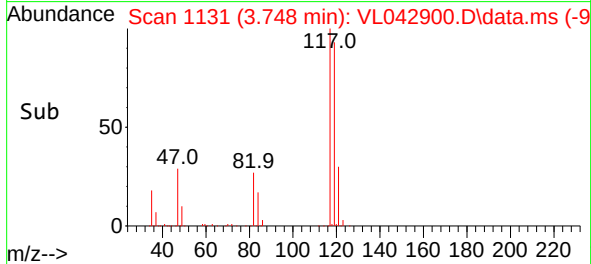
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



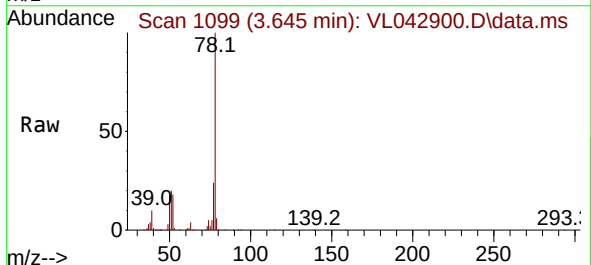
Tgt Ion: 117 Resp: 26909  
Ion Ratio Lower Upper  
117 100  
119 93.0 74.7 112.1  
121 30.4 23.2 34.8

Manual Integrations  
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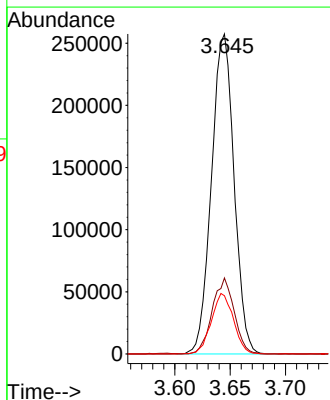
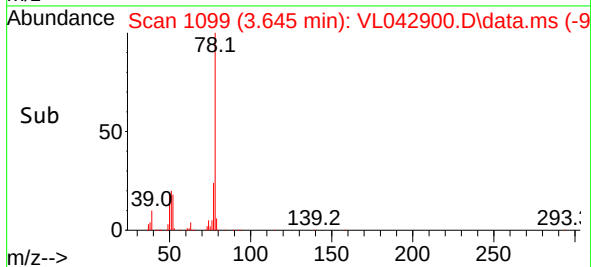
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

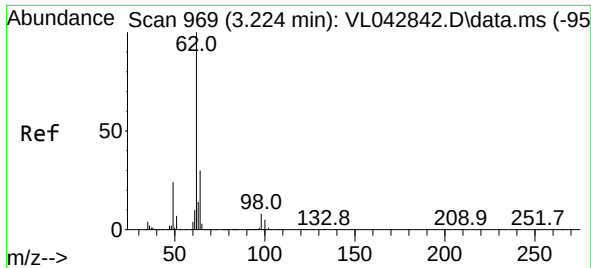


#36  
Benzene  
Concen: 11.458 ppbv  
RT: 3.645 min Scan# 1099  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



Tgt Ion: 78 Resp: 366027  
Ion Ratio Lower Upper  
78 100  
77 23.7 17.7 26.5  
50 18.2 13.9 20.9





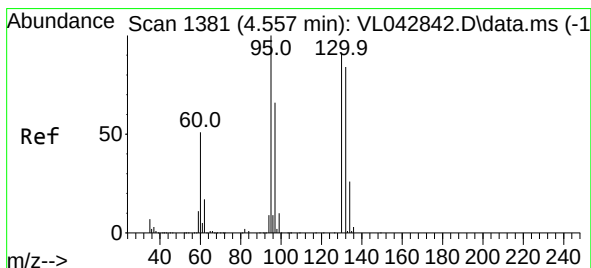
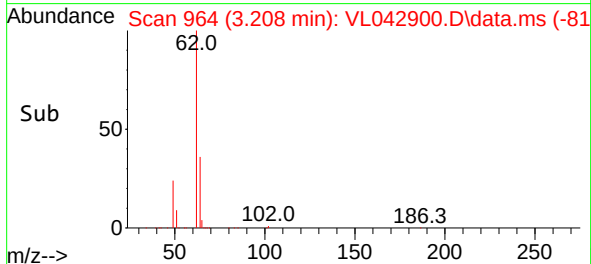
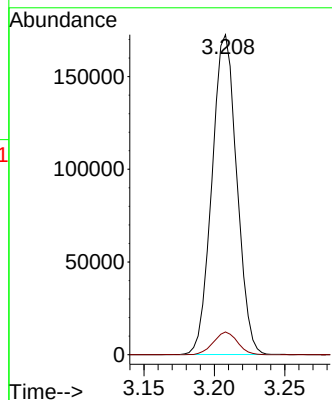
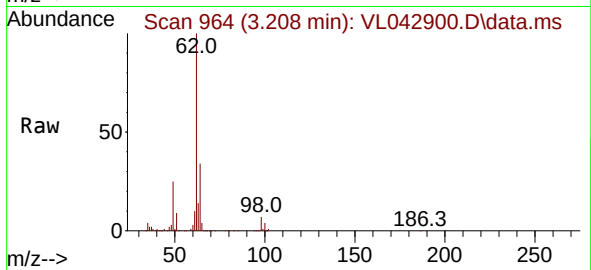
#37  
1,2-Dichloroethane  
Concen: 12.686 ppbv  
RT: 3.208 min Scan# 90  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 62 Resp: 211728  
Ion Ratio Lower Upper  
62 100  
98 6.9 5.9 8.9

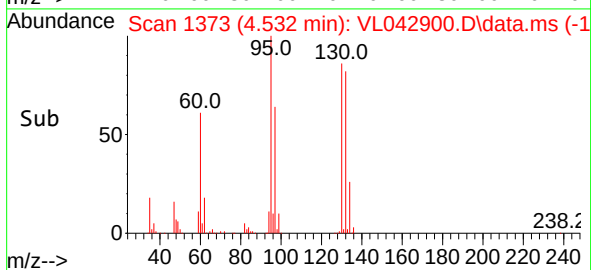
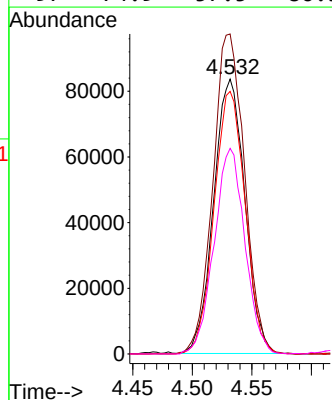
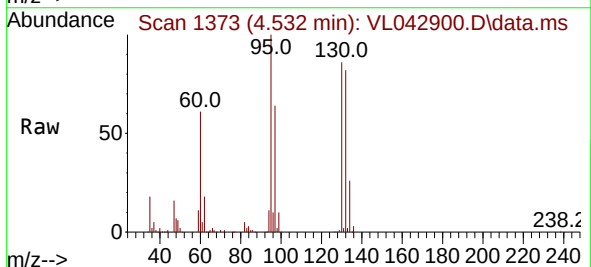
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

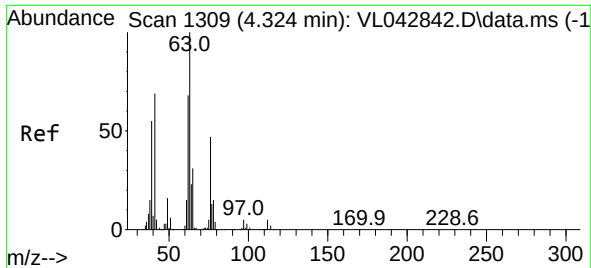


#38  
Trichloroethene  
Concen: 10.413 ppbv  
RT: 4.532 min Scan# 1373  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion:130 Resp: 151915  
Ion Ratio Lower Upper  
130 100  
95 116.1 87.6 131.4  
132 95.4 73.8 110.8  
97 74.9 57.5 86.3

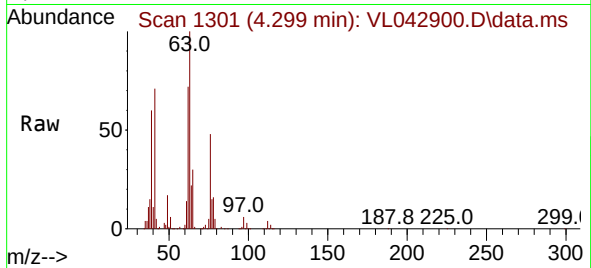






#39  
1,2-Dichloropropane  
Concen: 11.970 ppbv  
RT: 4.299 min Scan# 1301  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

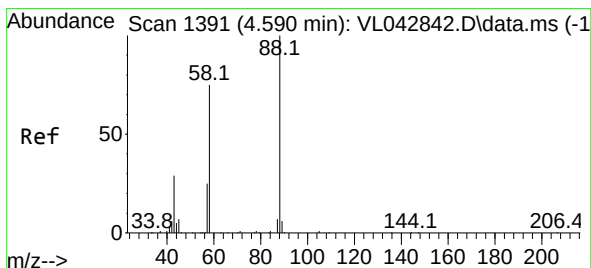
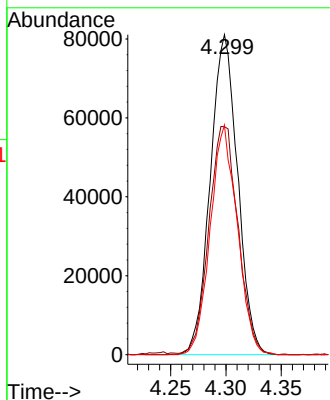
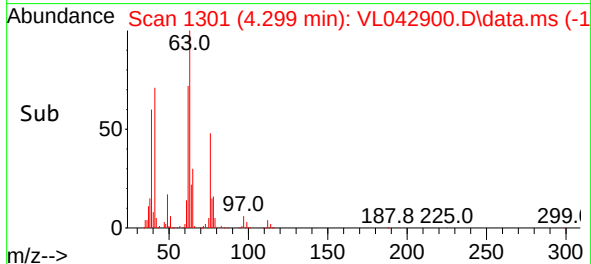
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



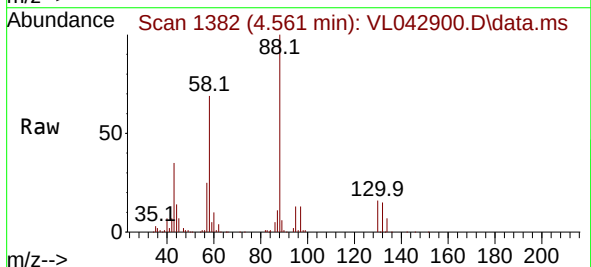
Tgt Ion: 63 Resp: 13965  
Ion Ratio Lower Upper  
63 100  
41 71.2 55.0 82.4  
62 71.8 54.4 81.6

Manual Integrations  
APPROVED

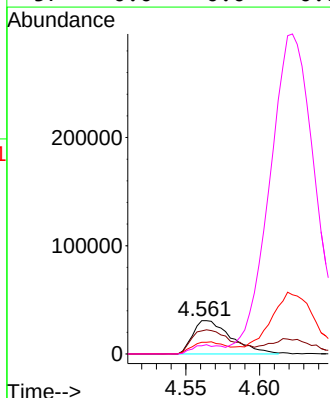
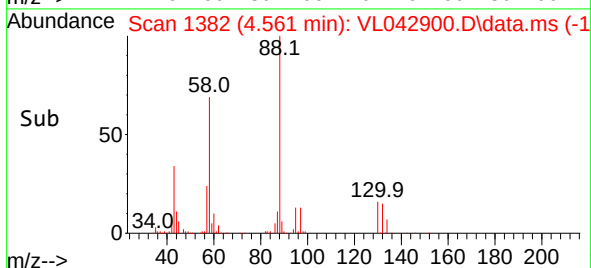
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

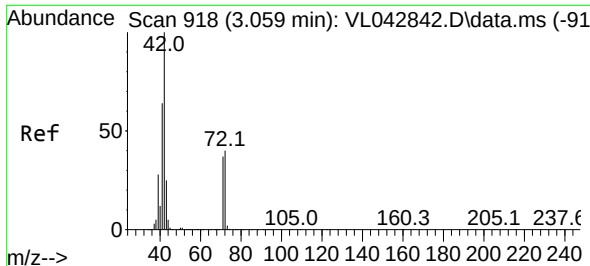


#40  
1,4-Dioxane  
Concen: 10.096 ppbv  
RT: 4.561 min Scan# 1382  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



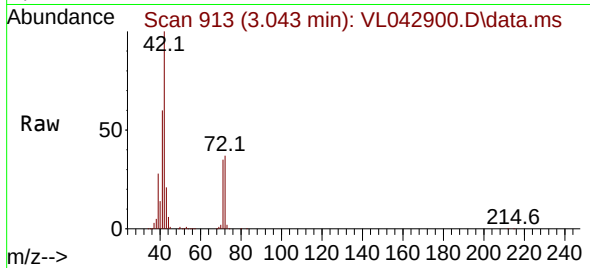
Tgt Ion: 88 Resp: 56013  
Ion Ratio Lower Upper  
88 100  
58 76.6 53.8 80.6  
43 35.7 22.8 34.2#  
57 0.0 0.0 0.0





#41  
Tetrahydrofuran  
Concen: 11.863 ppbv  
RT: 3.043 min Scan# 918  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

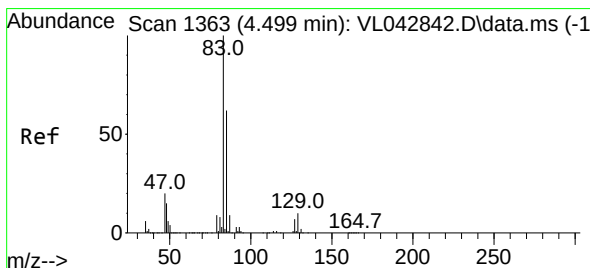
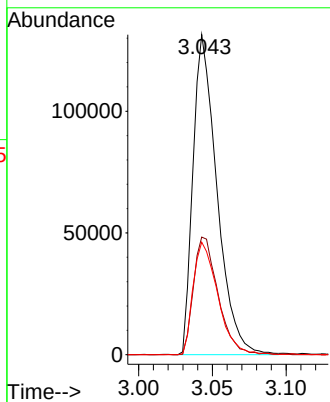
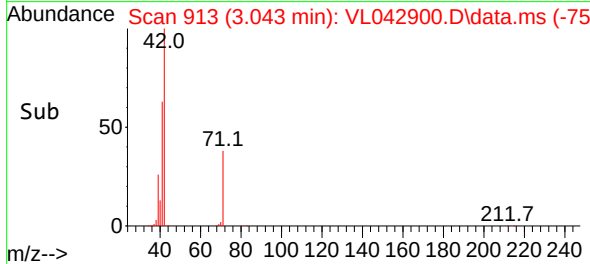
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



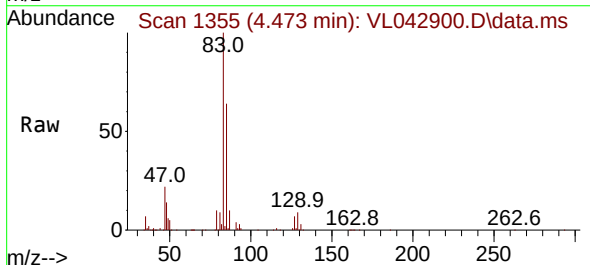
Tgt Ion: 42 Resp: 148990  
Ion Ratio Lower Upper  
42 100  
72 37.6 32.6 48.8  
71 36.3 30.0 45.0

Manual Integrations  
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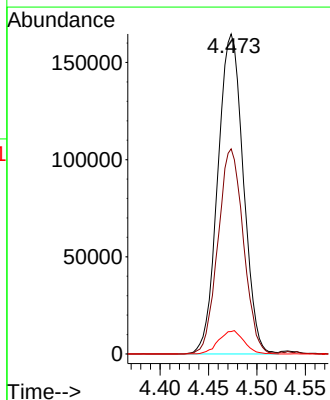
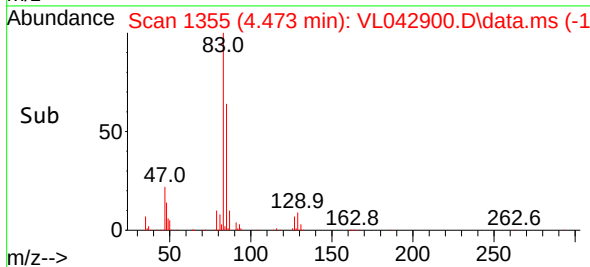
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

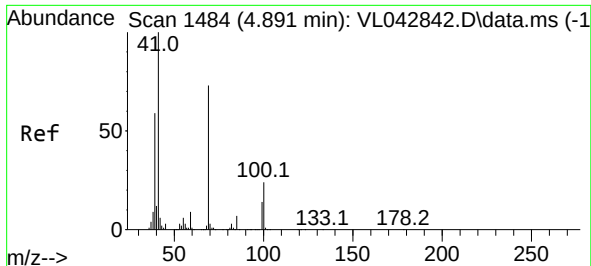


#42  
Bromodichloromethane  
Concen: 12.136 ppbv  
RT: 4.473 min Scan# 1355  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



Tgt Ion: 83 Resp: 301814  
Ion Ratio Lower Upper  
83 100  
85 64.1 49.8 74.8  
127 7.0 5.8 8.6





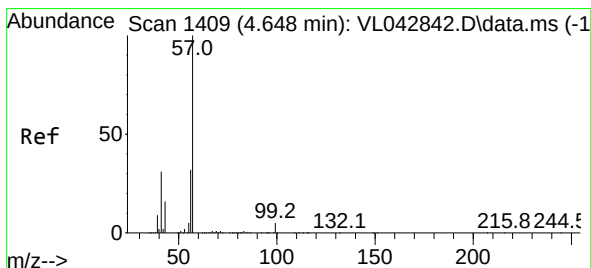
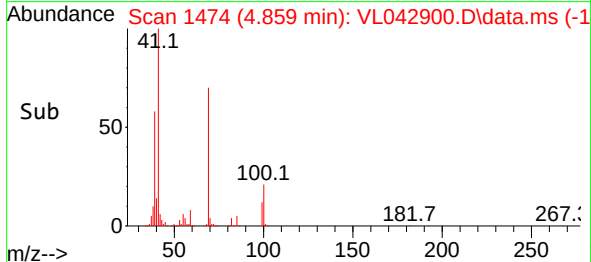
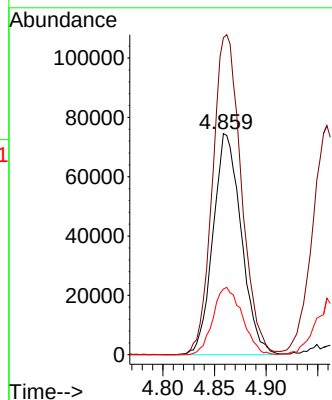
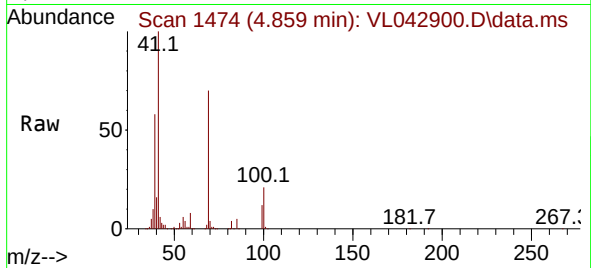
#43  
Methyl Methacrylate  
Concen: 10.776 ppbv  
RT: 4.859 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 69 Resp: 14181  
Ion Ratio Lower Upper  
69 100  
41 147.4 114.6 172.0  
100 31.5 30.2 45.4

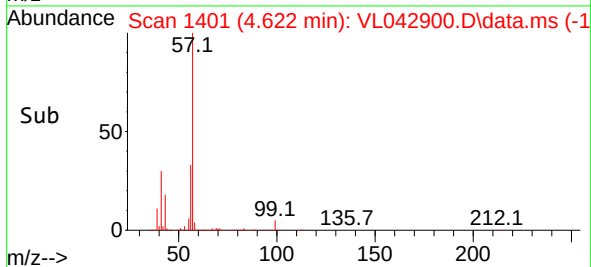
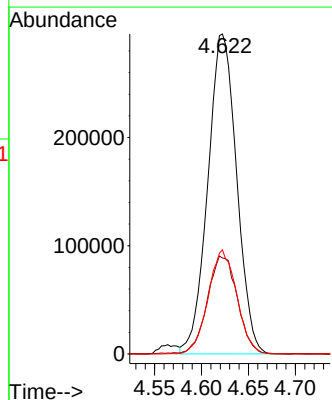
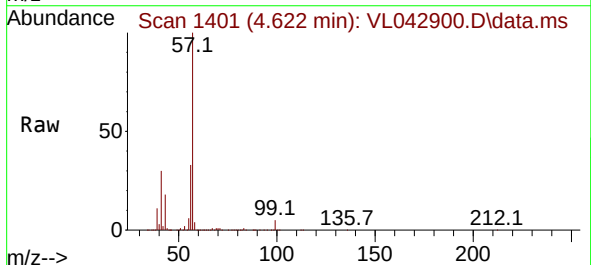
Manual Integrations  
APPROVED

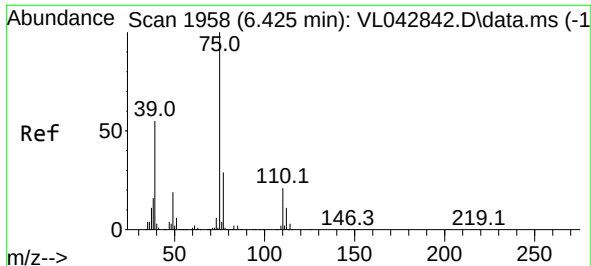
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#44  
2,2,4-Trimethylpentane  
Concen: 11.642 ppbv  
RT: 4.622 min Scan# 1401  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

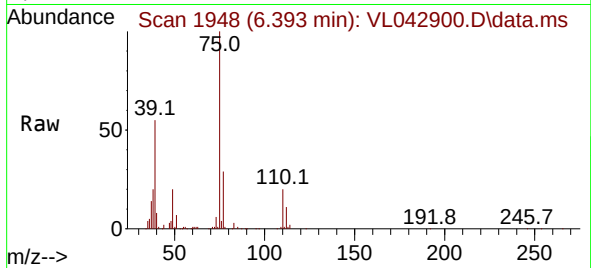
Tgt Ion: 57 Resp: 631245  
Ion Ratio Lower Upper  
57 100  
41 32.0 24.8 37.2  
56 32.2 25.5 38.3





#45  
t-1,3-Dichloropropene  
Concen: 10.411 ppbv  
RT: 6.393 min Scan# 1958  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

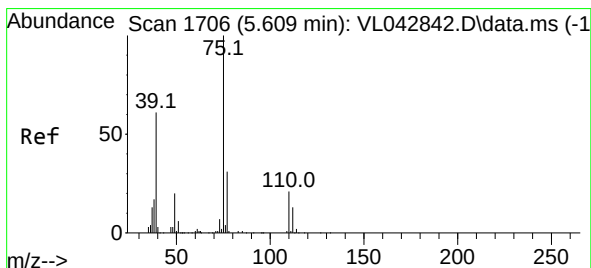
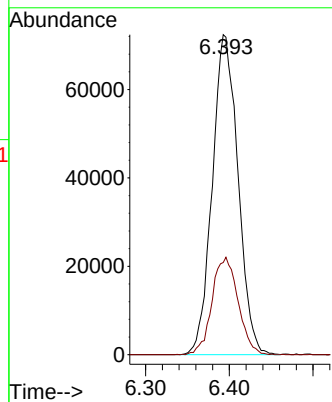
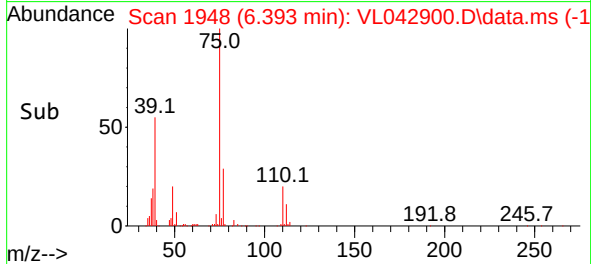
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 75 Resp: 15462  
Ion Ratio Lower Upper  
75 100  
77 28.8 23.8 35.6

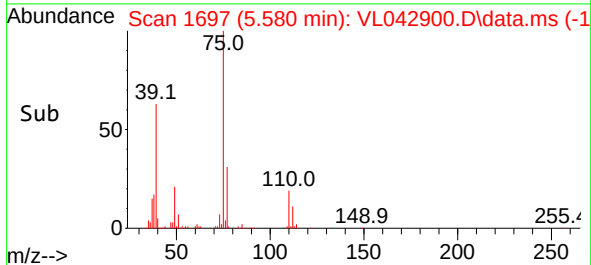
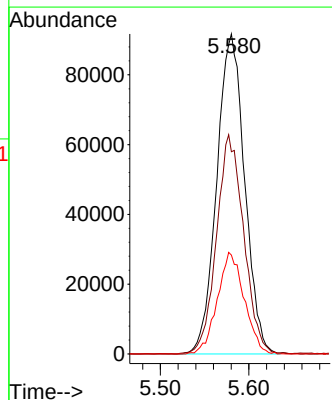
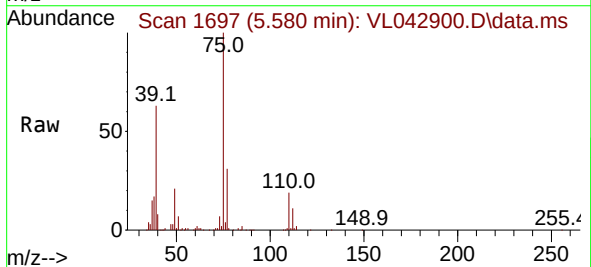
Manual Integrations  
APPROVED

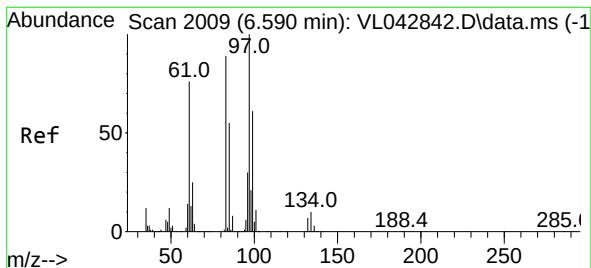
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#46  
cis-1,3-Dichloropropene  
Concen: 10.851 ppbv  
RT: 5.580 min Scan# 1697  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

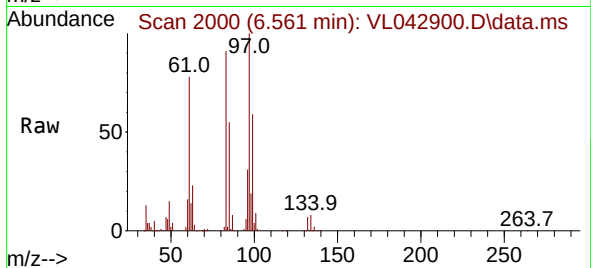
Tgt Ion: 75 Resp: 200797  
Ion Ratio Lower Upper  
75 100  
39 63.0 48.9 73.3  
77 30.9 24.9 37.3





#47  
1,1,2-Trichloroethane  
Concen: 11.666 ppbv  
RT: 6.561 min Scan# 2000  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

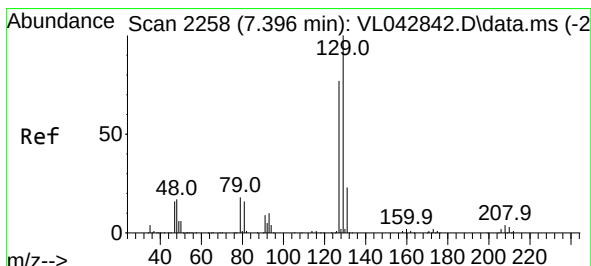
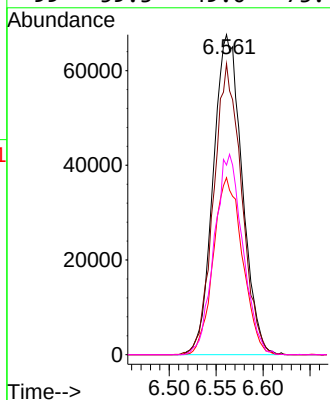
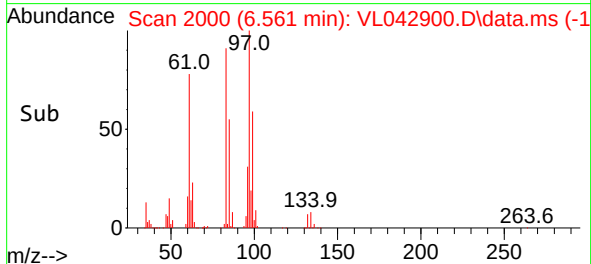
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



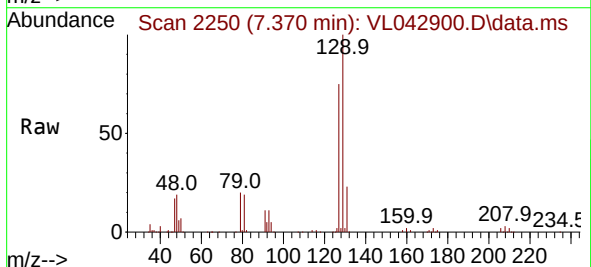
Tgt Ion: 97 Resp: 144209  
Ion Ratio Lower Upper  
97 100  
83 90.9 71.0 106.4  
85 55.2 43.6 65.4  
99 59.3 49.0 73.4

Manual Integrations  
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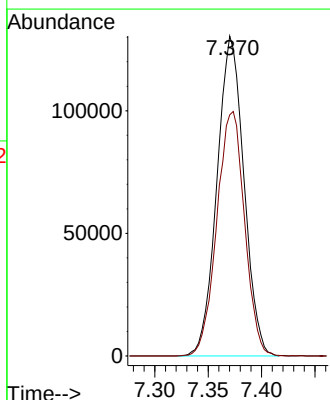
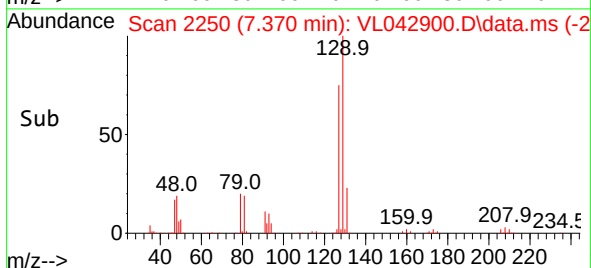
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

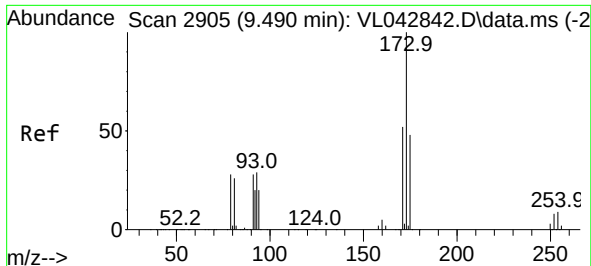


#48  
Dibromochloromethane  
Concen: 11.430 ppbv  
RT: 7.370 min Scan# 2250  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



Tgt Ion:129 Resp: 228649  
Ion Ratio Lower Upper  
129 100  
127 78.7 39.4 118.2





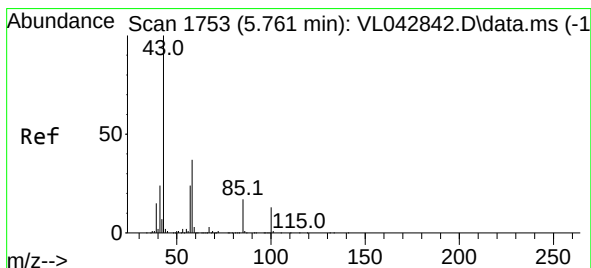
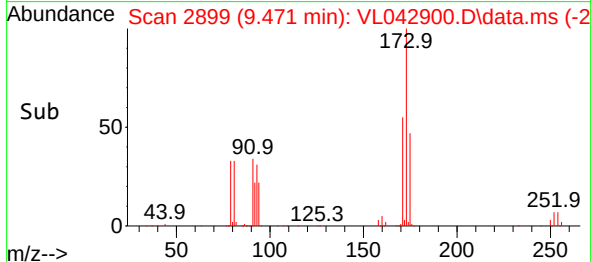
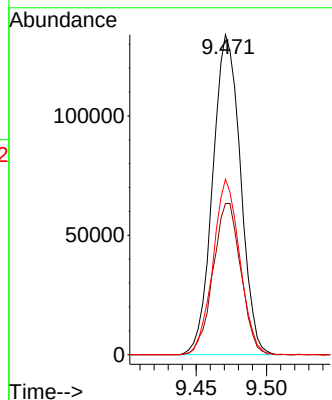
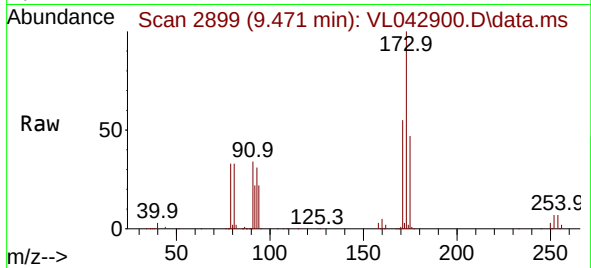
#49  
Bromoform  
Concen: 11.158 ppbv  
RT: 9.471 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion:173 Resp: 18406  
Ion Ratio Lower Upper  
173 100  
175 47.4 39.2 58.8  
171 52.8 41.3 61.9

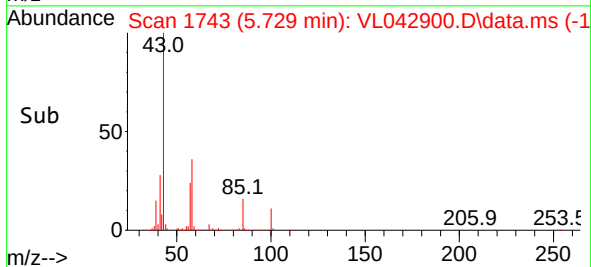
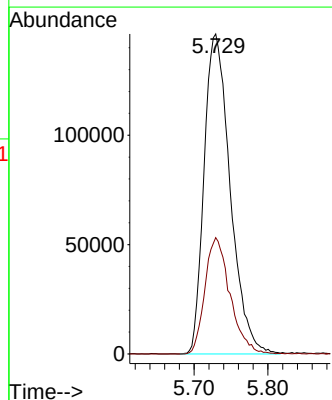
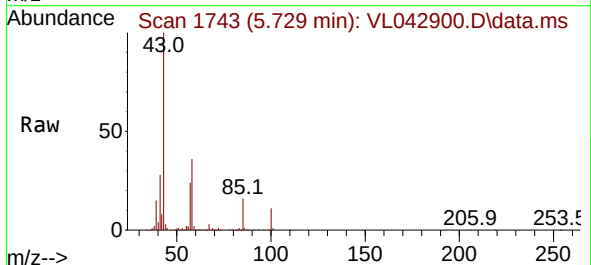
Manual Integrations  
APPROVED

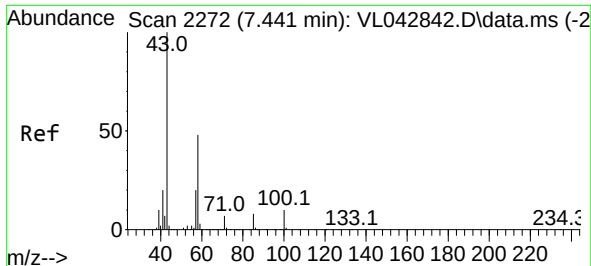
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#50  
4-Methyl-2-Pentanone  
Concen: 11.801 ppbv  
RT: 5.729 min Scan# 1743  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

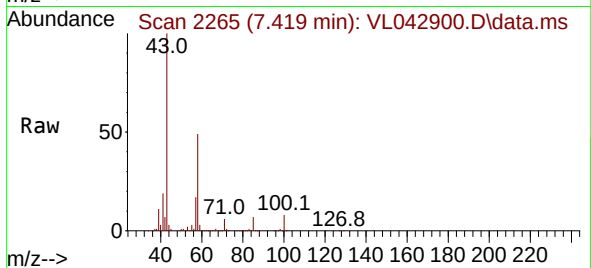
Tgt Ion: 43 Resp: 359329  
Ion Ratio Lower Upper  
43 100  
58 35.0 29.8 44.8





#51  
2-Hexanone  
Concen: 11.872 ppbv  
RT: 7.419 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

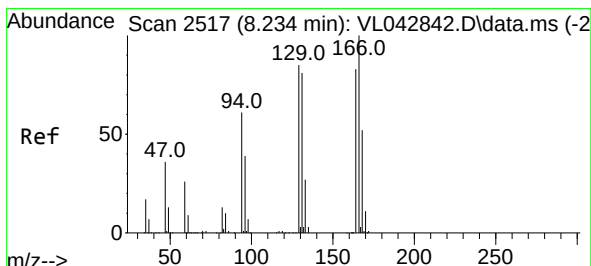
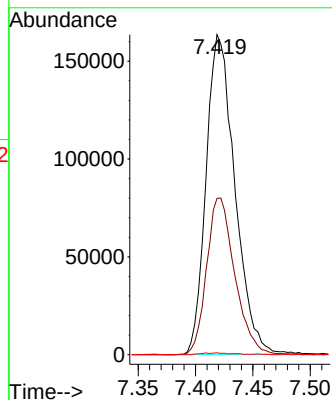
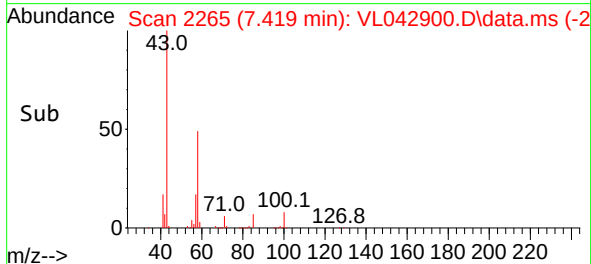
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



Tgt Ion: 43 Resp: 284454  
Ion Ratio Lower Upper  
43 100  
58 48.1 41.0 61.6  
98 0.7 0.1 0.1

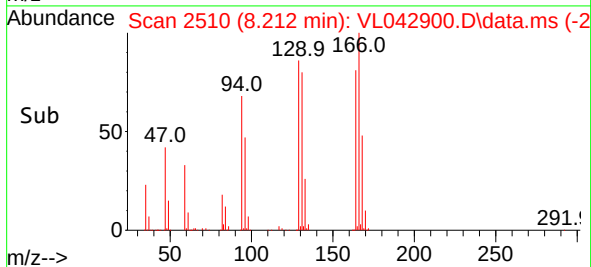
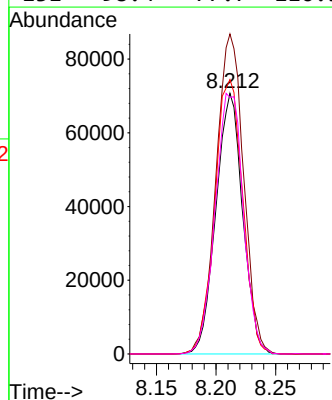
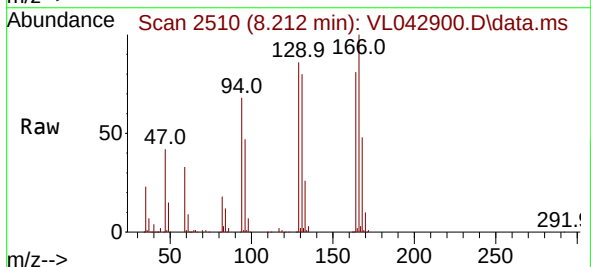
Manual Integrations  
APPROVED

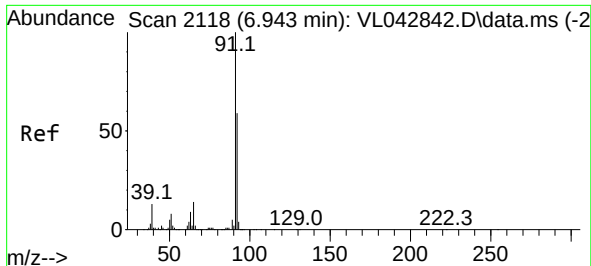
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#52  
Tetrachloroethene  
Concen: 9.547 ppbv  
RT: 8.212 min Scan# 2510  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

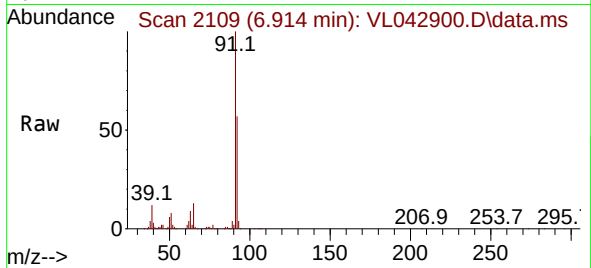
Tgt Ion:164 Resp: 110334  
Ion Ratio Lower Upper  
164 100  
166 122.8 96.5 144.7  
129 105.2 81.8 122.6  
131 98.4 77.7 116.5





#53  
Toluene  
Concen: 10.587 ppbv  
RT: 6.914 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

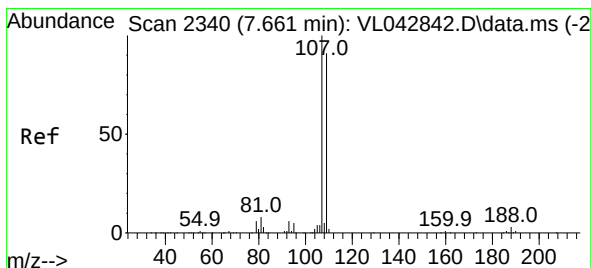
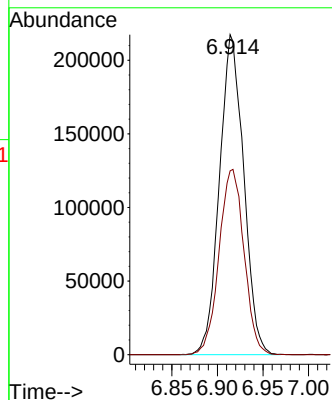
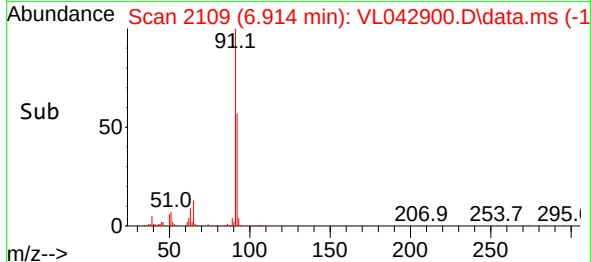
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



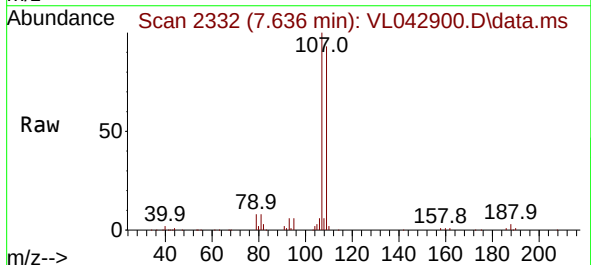
Tgt Ion: 91 Resp: 402080  
Ion Ratio Lower Upper  
91 100  
92 59.7 47.8 71.6

Manual Integrations  
APPROVED

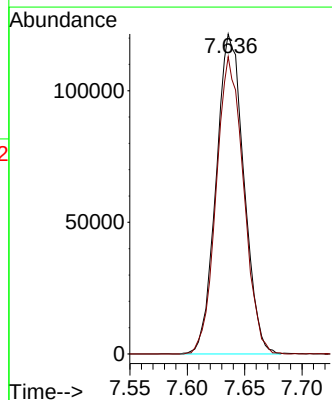
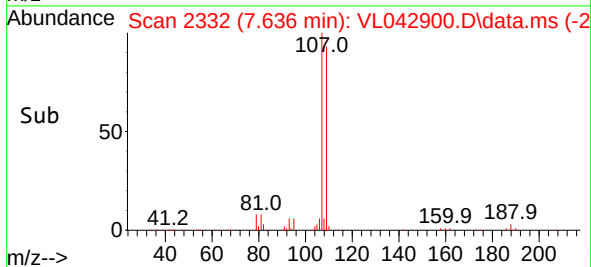
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



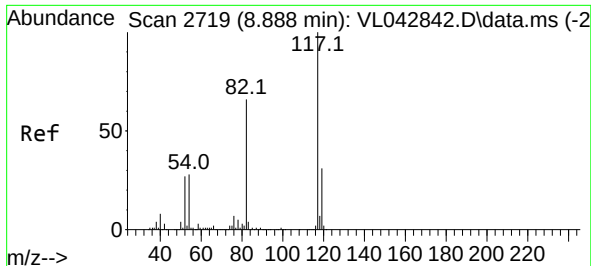
#54  
1,2-Dibromoethane  
Concen: 11.307 ppbv  
RT: 7.636 min Scan# 2332  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



Tgt Ion:107 Resp: 204276  
Ion Ratio Lower Upper  
107 100  
109 92.9 72.5 108.7

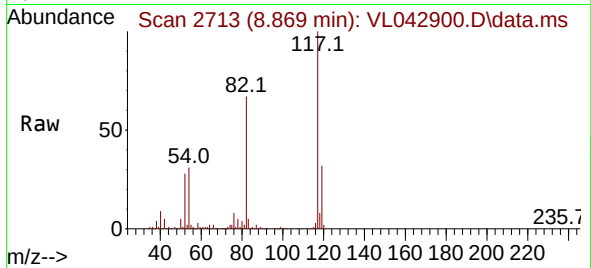






#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.869 min Scan# 2719  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

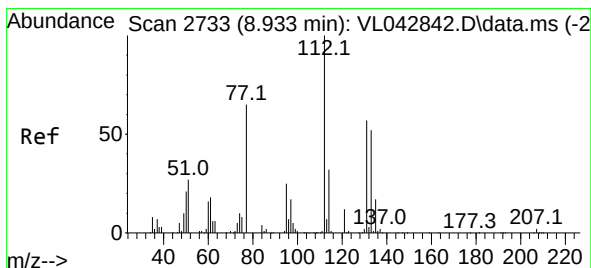
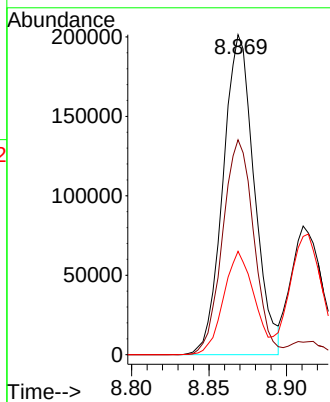
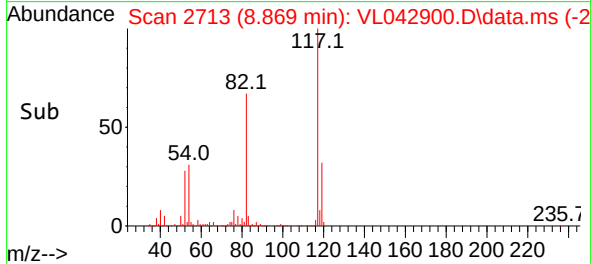
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010



Tgt Ion:117 Resp: 282770  
Ion Ratio Lower Upper  
117 100  
82 71.7 54.6 81.8  
119 33.1 25.9 38.9

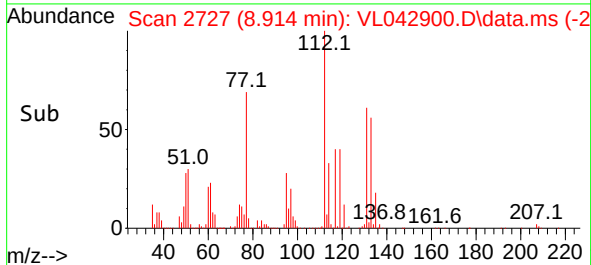
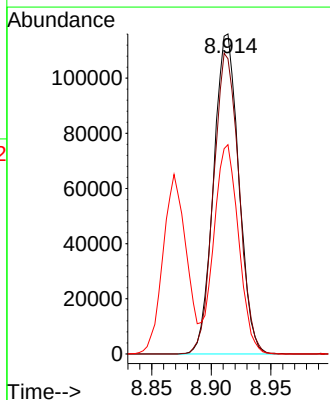
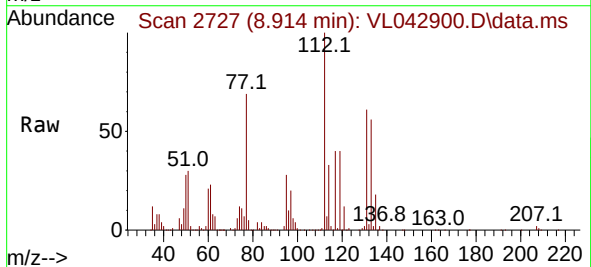
Manual Integrations  
APPROVED

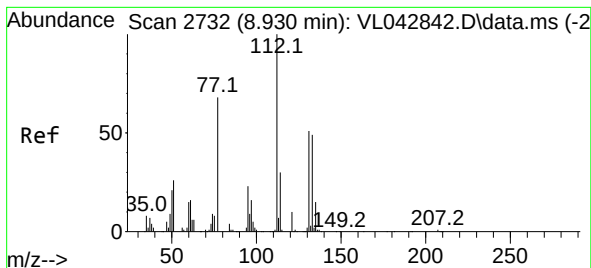
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 11.648 ppbv  
RT: 8.914 min Scan# 2727  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion:131 Resp: 170319  
Ion Ratio Lower Upper  
131 100  
133 95.2 77.4 116.0  
119 63.9 51.2 76.8





#57

Chlorobenzene

Concen: 11.581 ppbv

RT: 8.911 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

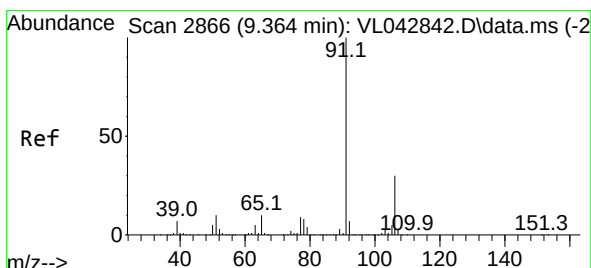
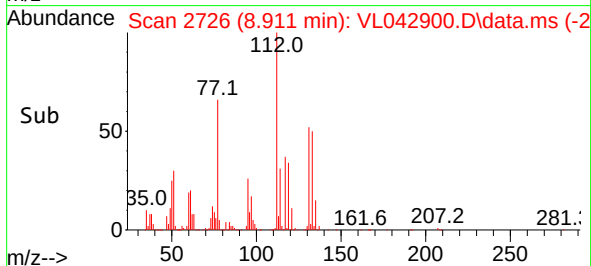
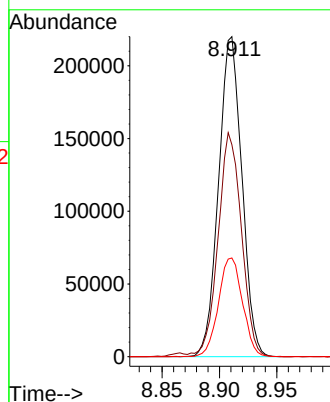
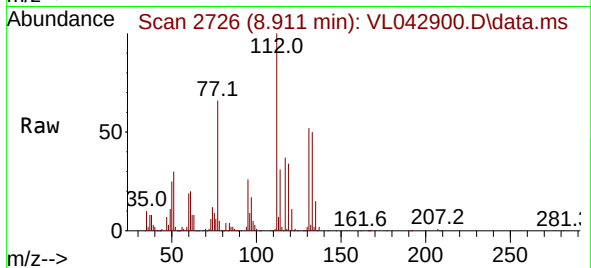
VSTDCCC010

Tgt Ion:112 Resp: 31137  
 Ion Ratio Lower Upper  
 112 100  
 77 66.1 55.5 83.3  
 114 30.8 27.2 33.2

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025



#58

Ethyl Benzene

Concen: 11.184 ppbv

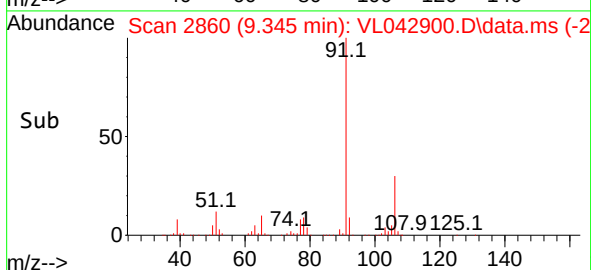
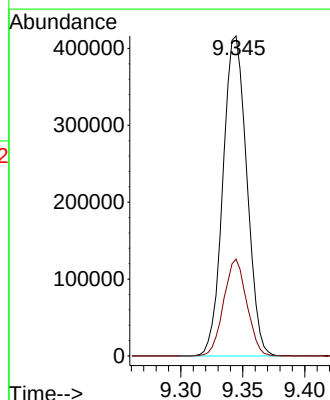
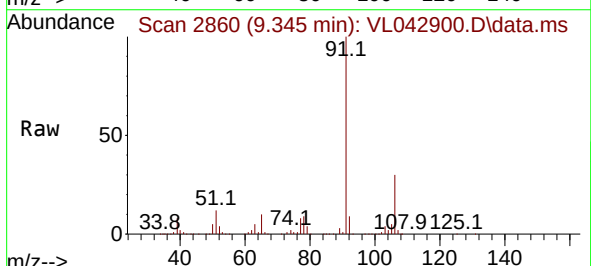
RT: 9.345 min Scan# 2860

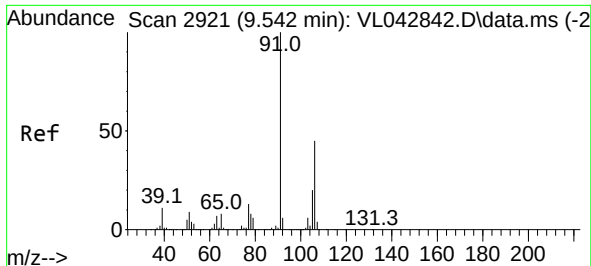
Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 558102  
 Ion Ratio Lower Upper  
 91 100  
 106 30.3 23.9 35.9





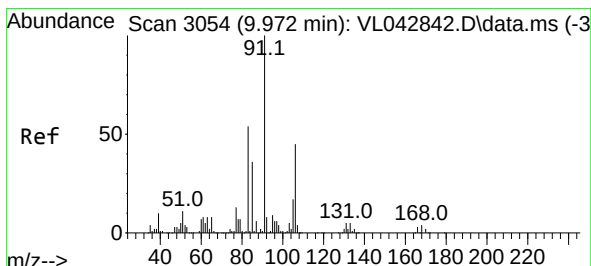
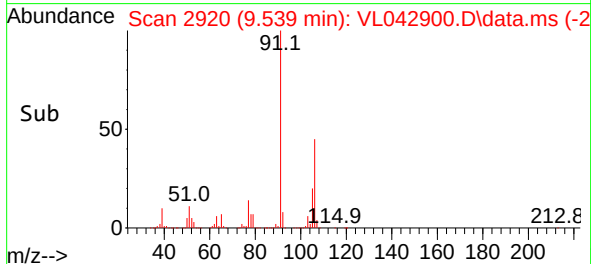
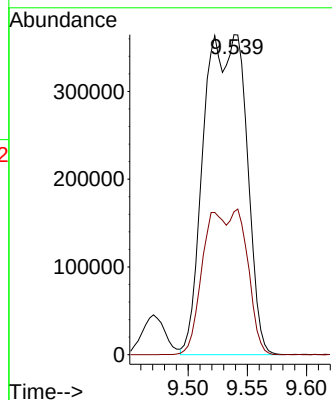
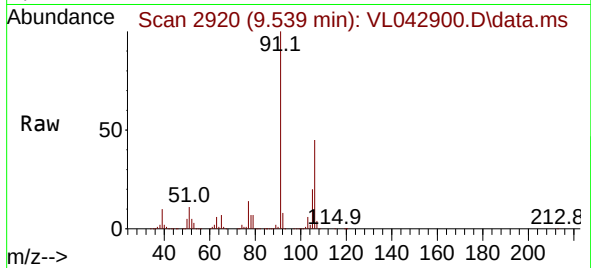
#59  
m/p-Xylene  
Concen: 23.388 ppbv m  
RT: 9.539 min Scan# 2921  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 91478  
Ion Ratio Lower Upper  
91 100  
106 45.8 0.0 0.0

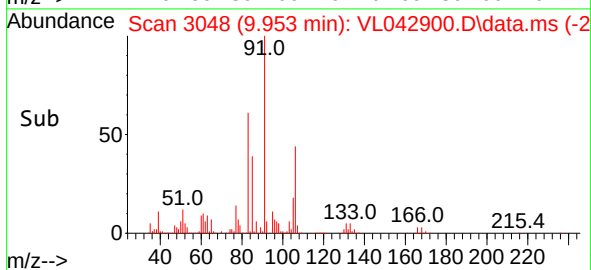
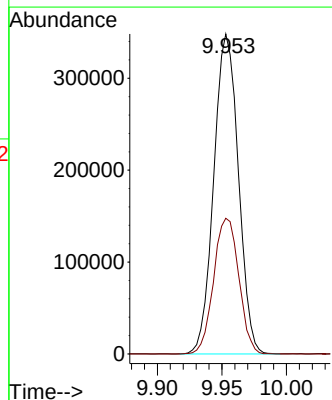
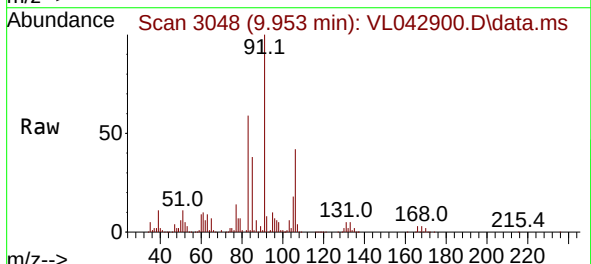
Manual Integrations  
APPROVED

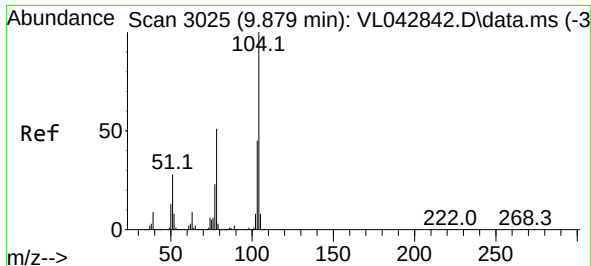
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#60  
o-Xylene  
Concen: 11.716 ppbv  
RT: 9.953 min Scan# 3048  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

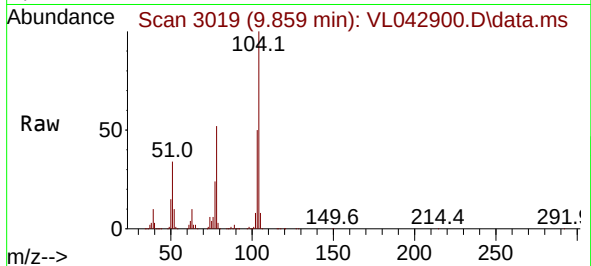
Tgt Ion: 91 Resp: 460968  
Ion Ratio Lower Upper  
91 100  
106 43.4 21.8 65.4





#61  
Styrene  
Concen: 10.579 ppbv  
RT: 9.859 min Scan# 3025  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

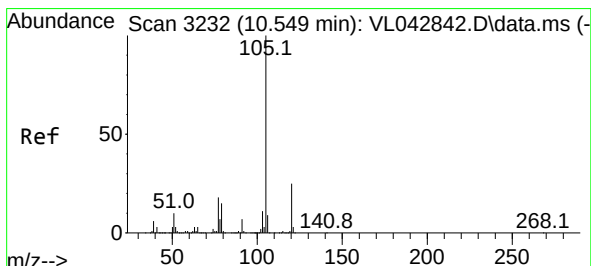
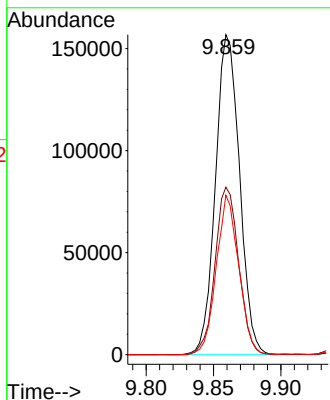
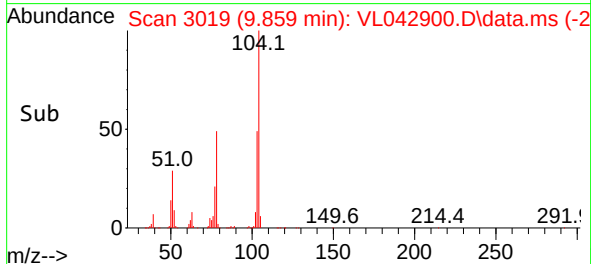
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



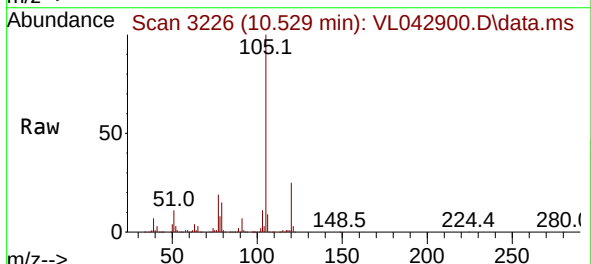
Tgt Ion:104 Resp: 19500  
Ion Ratio Lower Upper  
104 100  
78 51.3 40.6 61.0  
103 46.6 37.7 56.5

Manual Integrations  
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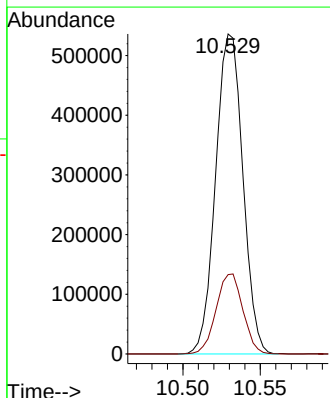
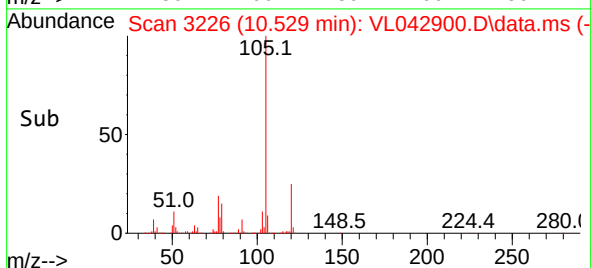
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

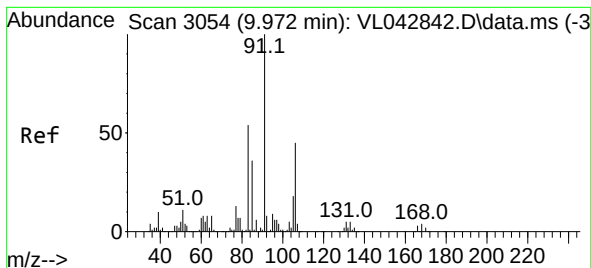


#62  
Isopropylbenzene  
Concen: 11.394 ppbv  
RT: 10.529 min Scan# 3226  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



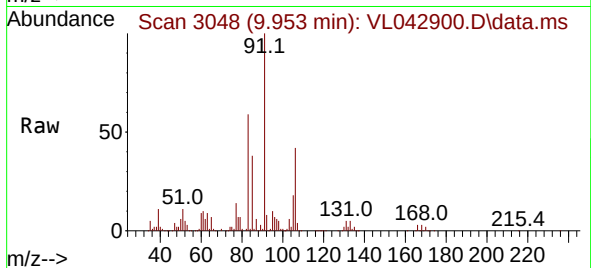
Tgt Ion:105 Resp: 655164  
Ion Ratio Lower Upper  
105 100  
120 24.5 20.6 30.8





#63  
1,1,2,2-Tetrachloroethane  
Concen: 12.314 ppbv  
RT: 9.953 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

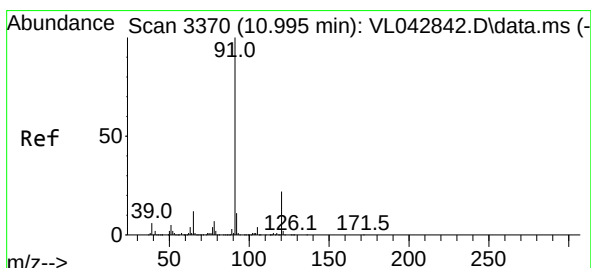
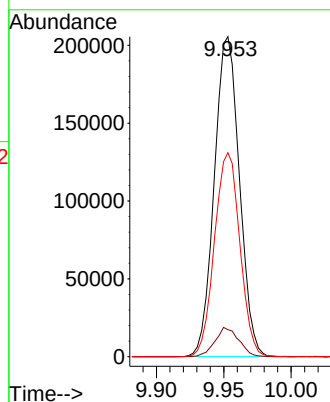
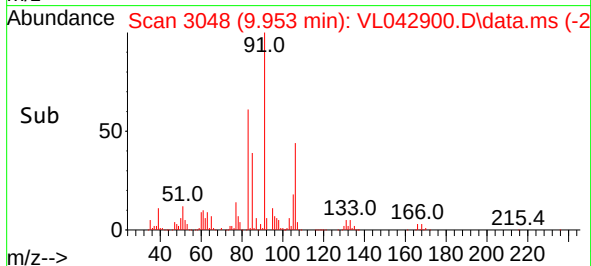
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



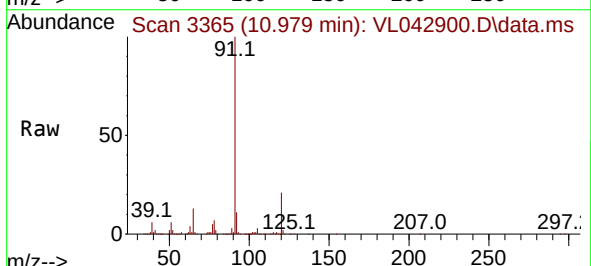
Tgt Ion: 83 Resp: 26643  
Ion Ratio Lower Upper  
83 100  
131 8.7 4.8 14.3  
85 64.5 32.3 96.8

Manual Integrations  
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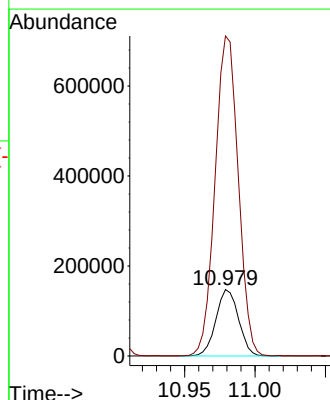
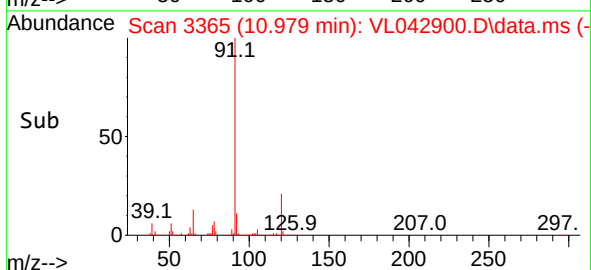
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

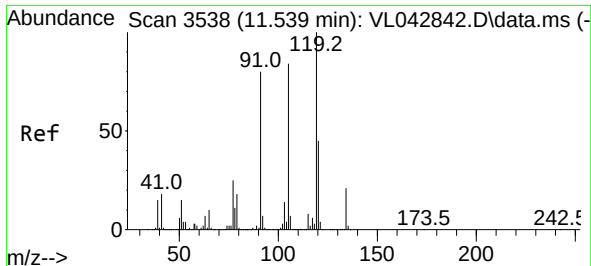


#64  
n-propylbenzene  
Concen: 11.220 ppbv  
RT: 10.979 min Scan# 3365  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



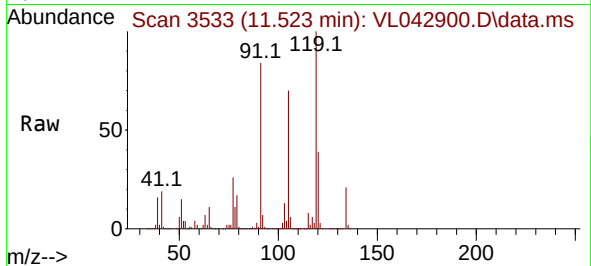
Tgt Ion:120 Resp: 164610  
Ion Ratio Lower Upper  
120 100  
91 495.9 375.8 563.6





#65  
tert-Butylbenzene  
Concen: 11.075 ppbv  
RT: 11.523 min Scan# 3533  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

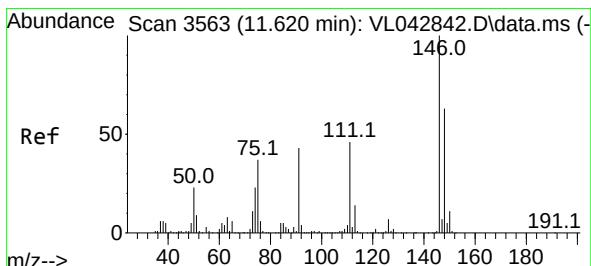
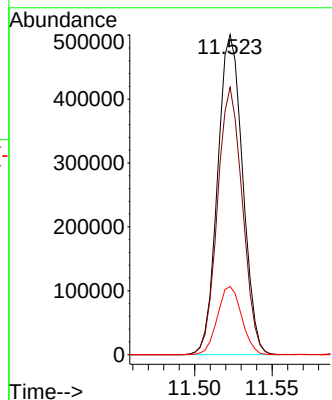
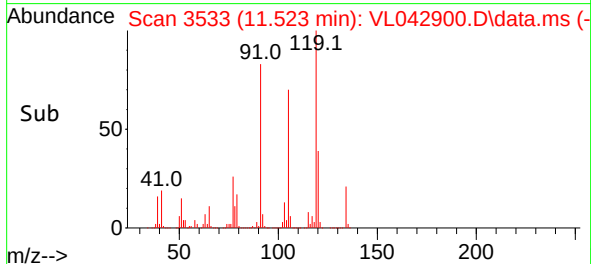
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



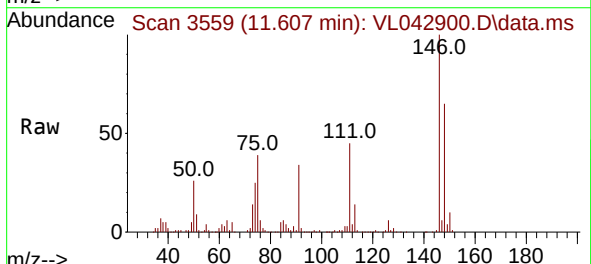
Tgt Ion: 119 Resp: 561409  
Ion Ratio Lower Upper  
119 100  
91 83.4 63.9 95.9  
134 20.6 17.0 25.4

Manual Integrations  
APPROVED

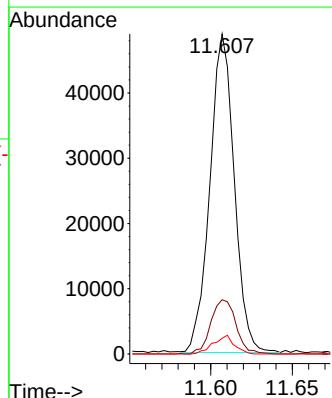
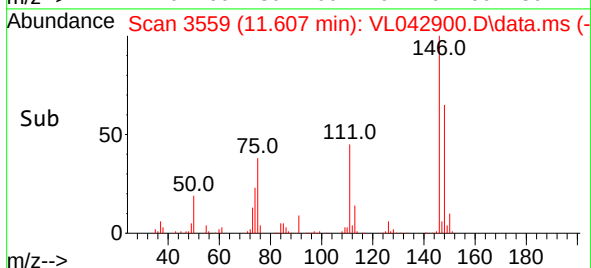
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

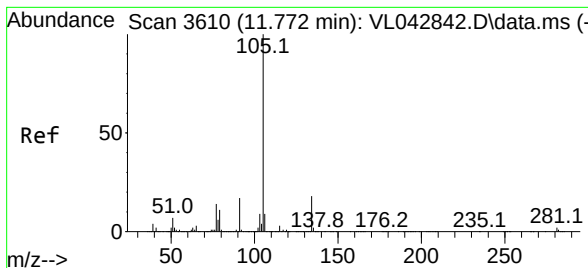


#66  
Benzyl Chloride  
Concen: 7.895 ppbv  
RT: 11.607 min Scan# 3559  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



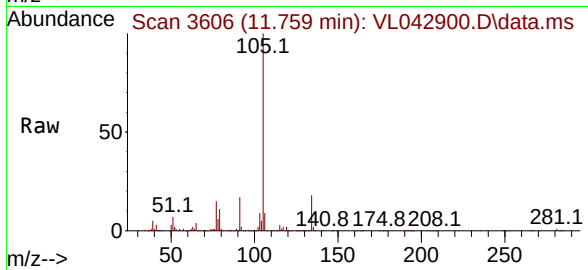
Tgt Ion: 91 Resp: 50803  
Ion Ratio Lower Upper  
91 100  
126 17.5 14.2 21.4  
128 5.0 5.0 7.6#





#67  
 sec-Butylbenzene  
 Concen: 11.709 ppbv  
 RT: 11.759 min Scan# 3610  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

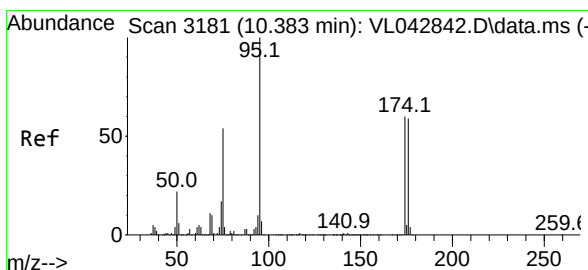
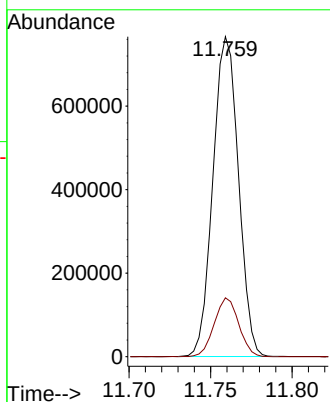
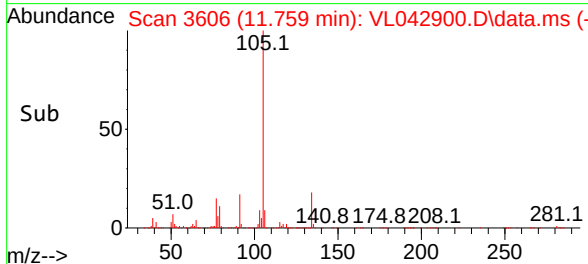
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010



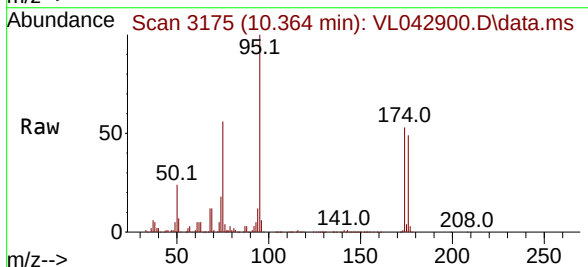
Tgt Ion:105 Resp: 833114  
 Ion Ratio Lower Upper  
 105 100  
 134 17.7 14.9 22.3

Manual Integrations  
 APPROVED

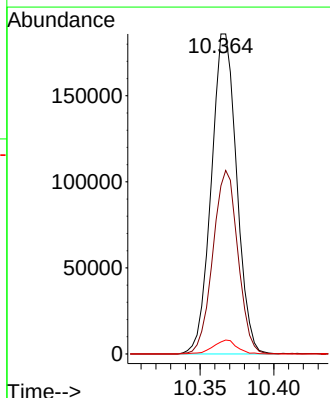
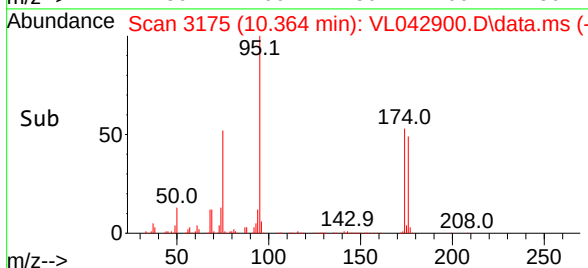
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

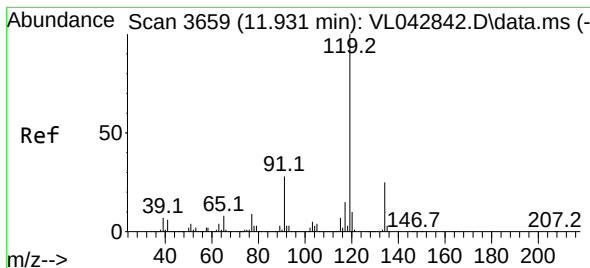


#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.483 ppbv  
 RT: 10.364 min Scan# 3175  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05



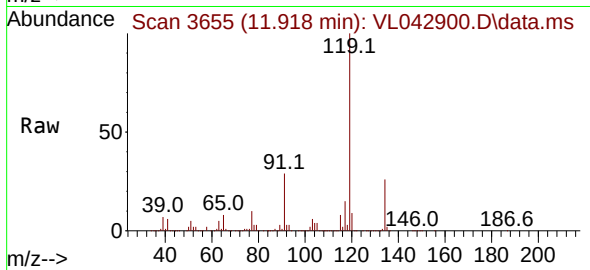
Tgt Ion: 95 Resp: 222314  
 Ion Ratio Lower Upper  
 95 100  
 174 56.8 48.4 72.6  
 175 4.1 3.8 5.8





#69  
p-Isopropyltoluene  
Concen: 10.929 ppbv  
RT: 11.918 min Scan# 3655  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

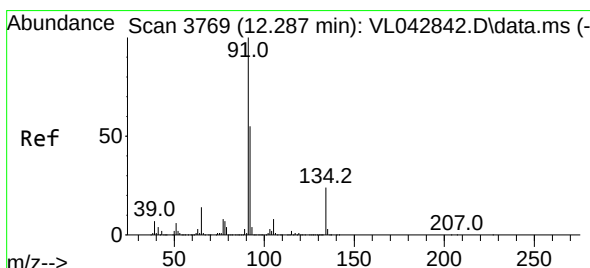
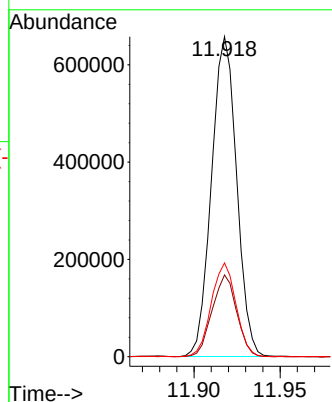
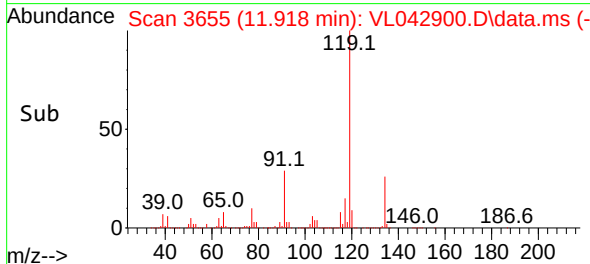
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



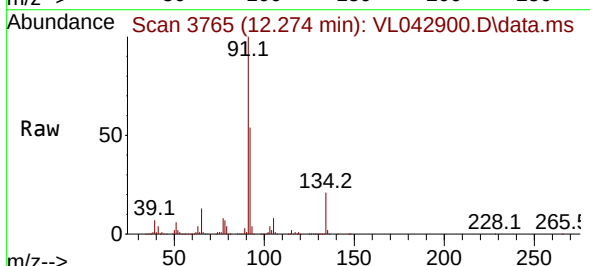
Tgt Ion:119 Resp: 667558  
Ion Ratio Lower Upper  
119 100  
134 25.1 20.6 30.8  
91 29.0 22.6 34.0

Manual Integrations  
APPROVED

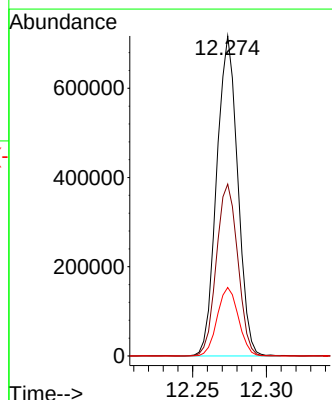
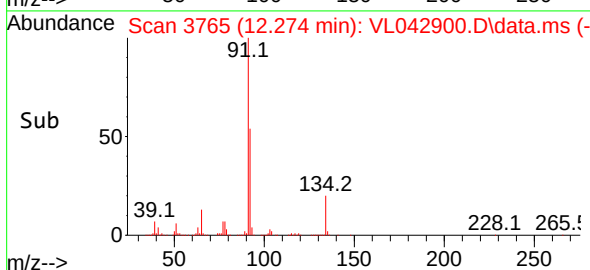
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



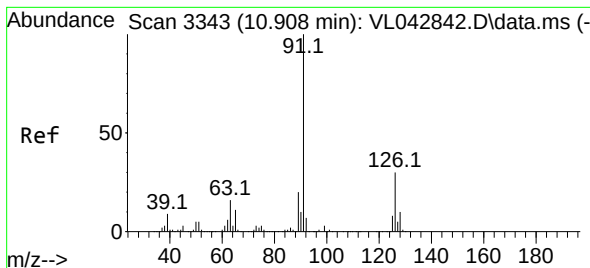
#70  
n-Butylbenzene  
Concen: 11.736 ppbv  
RT: 12.274 min Scan# 3765  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



Tgt Ion: 91 Resp: 711012  
Ion Ratio Lower Upper  
91 100  
92 54.7 44.6 66.8  
134 21.6 19.0 28.4







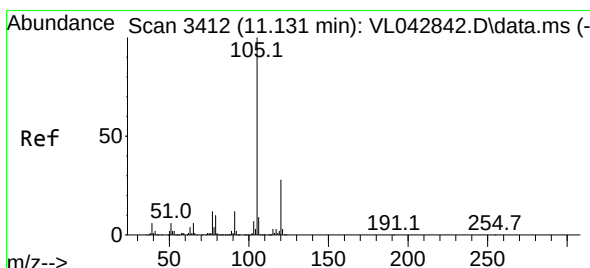
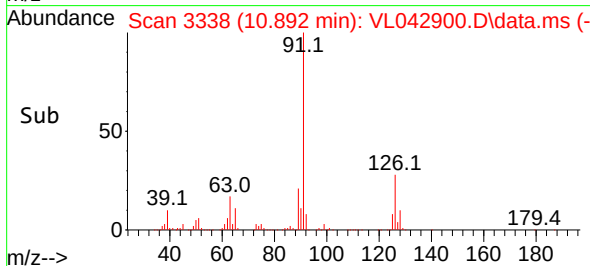
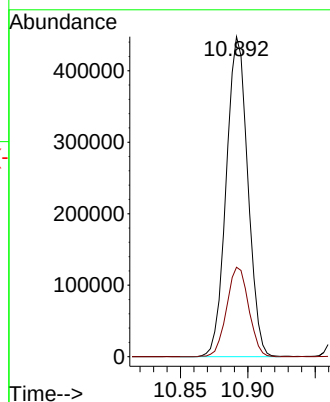
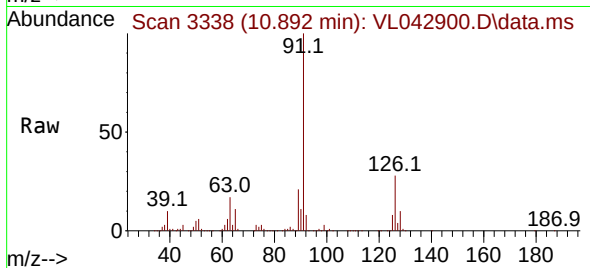
#71  
2-Chlorotoluene  
Concen: 11.156 ppbv  
RT: 10.892 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 91 Resp: 498072  
Ion Ratio Lower Upper  
91 100  
126 28.5 12.0 47.8

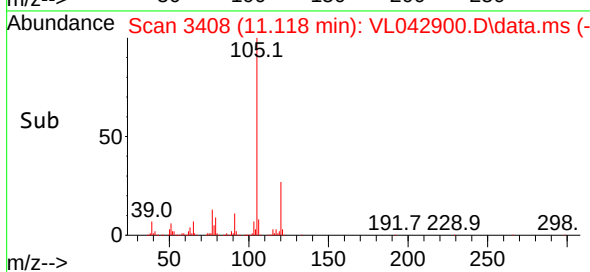
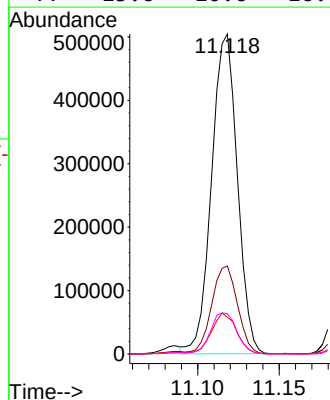
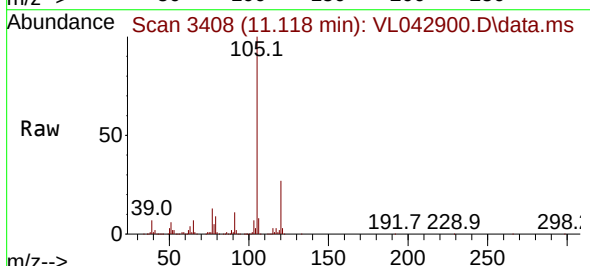
Manual Integrations  
APPROVED

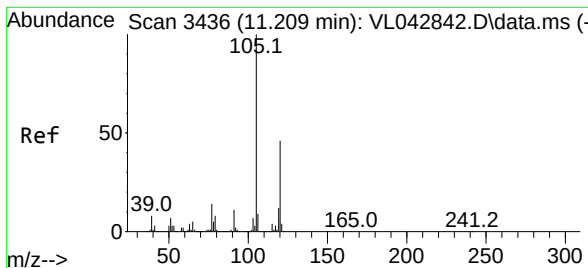
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#72  
4-Ethyltoluene  
Concen: 11.624 ppbv  
RT: 11.118 min Scan# 3408  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 554411  
Ion Ratio Lower Upper  
105 100  
120 28.3 23.4 35.2  
91 12.9 9.8 14.6  
77 13.6 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 11.105 ppbv

RT: 11.196 min Scan# 3436

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion:105 Resp: 450409

Ion Ratio Lower Upper

105 100

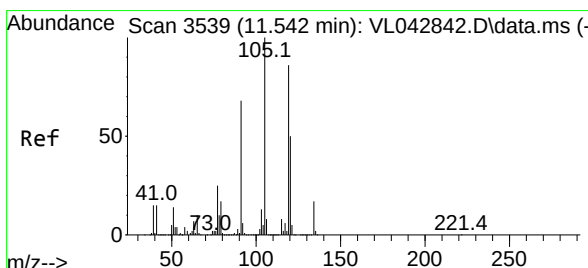
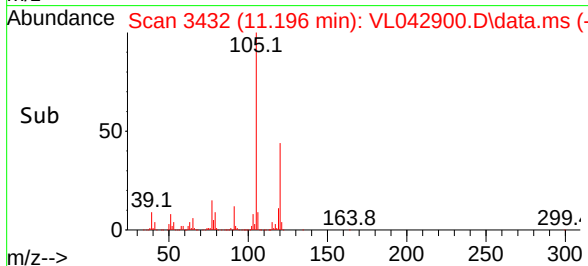
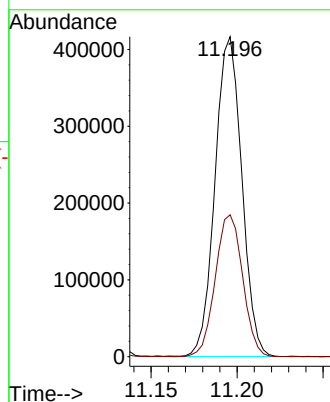
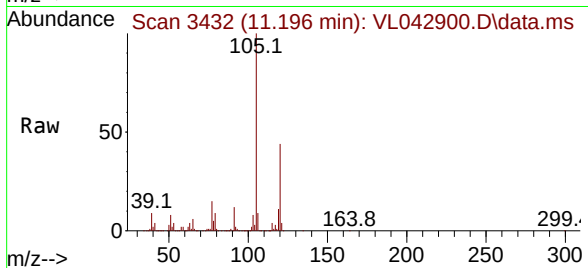
120 44.3 36.6 54.8

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#74

1,2,4-Trimethylbenzene

Concen: 11.424 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 508605

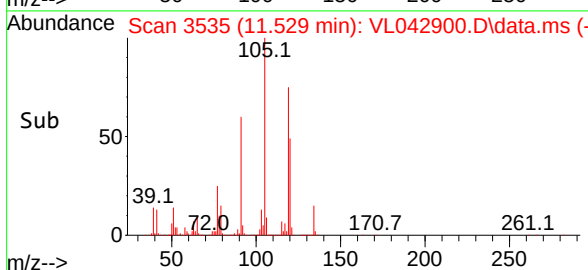
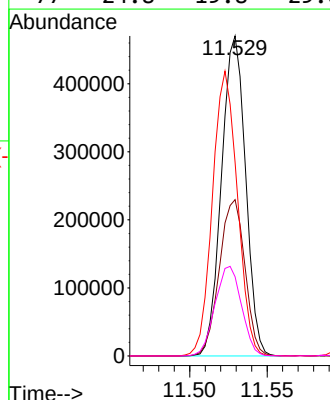
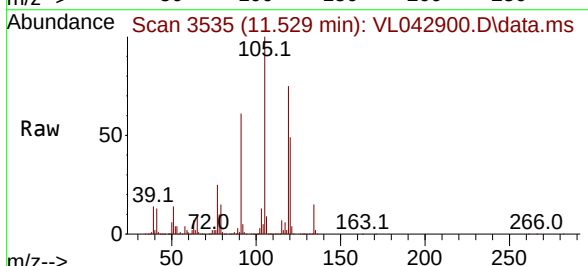
Ion Ratio Lower Upper

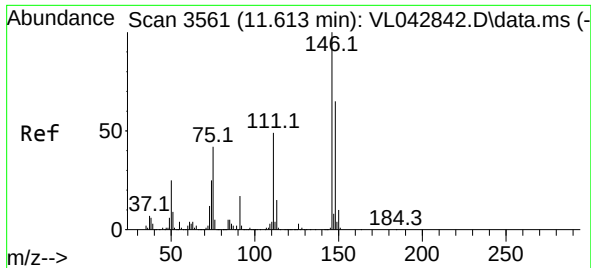
105 100

120 48.8 39.8 59.6

91 60.5 54.2 81.4

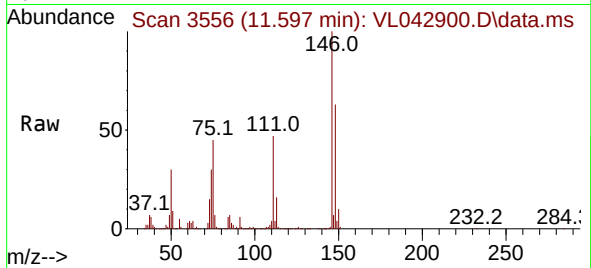
77 24.8 19.8 29.6





#75  
1,3-Dichlorobenzene  
Concen: 11.445 ppbv  
RT: 11.597 min Scan# 3556  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

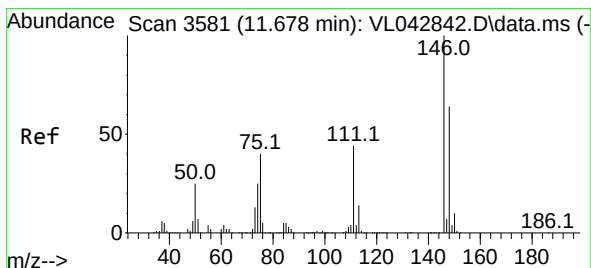
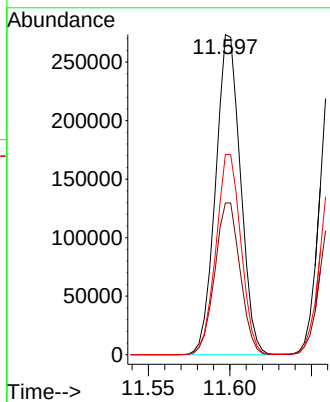
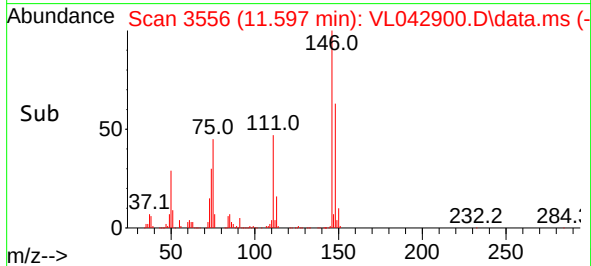
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



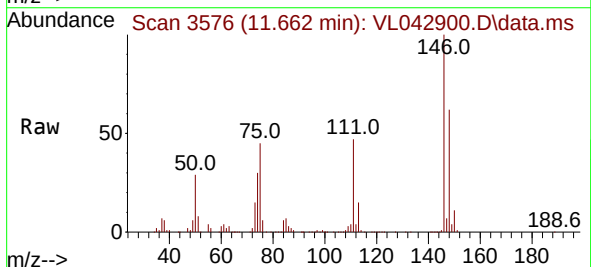
Tgt Ion:146 Resp: 289650  
Ion Ratio Lower Upper  
146 100  
111 48.4 23.9 71.7  
148 63.1 31.4 94.0

Manual Integrations  
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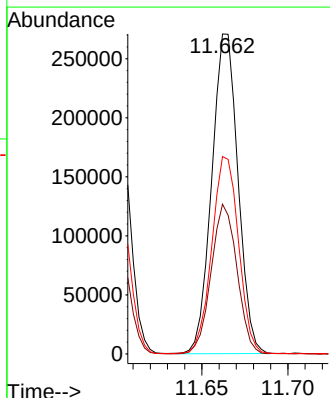
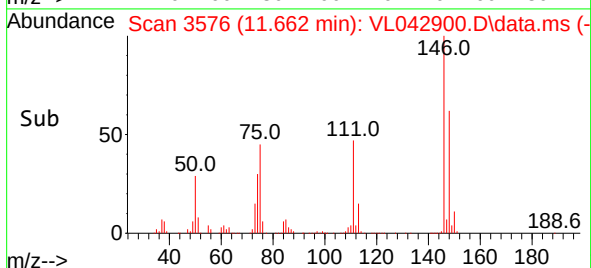
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

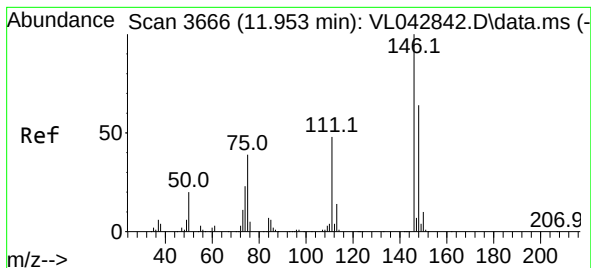


#76  
1,4-Dichlorobenzene  
Concen: 11.226 ppbv  
RT: 11.662 min Scan# 3576  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



Tgt Ion:146 Resp: 287352  
Ion Ratio Lower Upper  
146 100  
111 46.3 22.7 68.1  
148 63.2 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 11.351 ppbv

RT: 11.940 min Scan# 3666

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

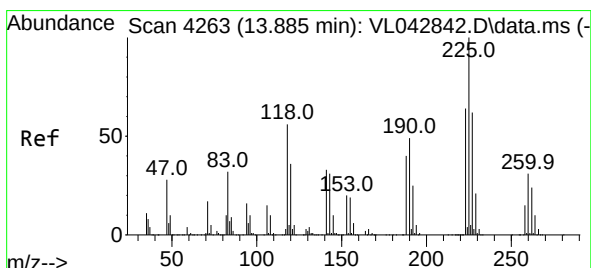
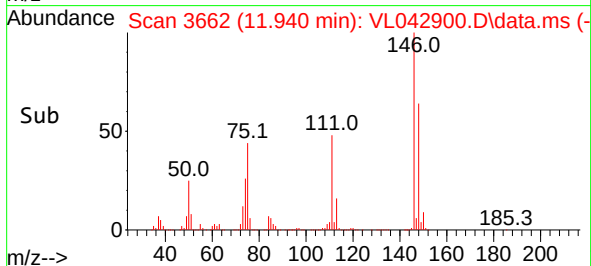
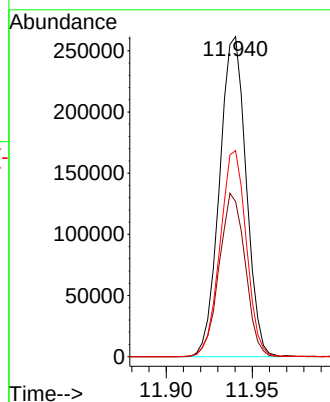
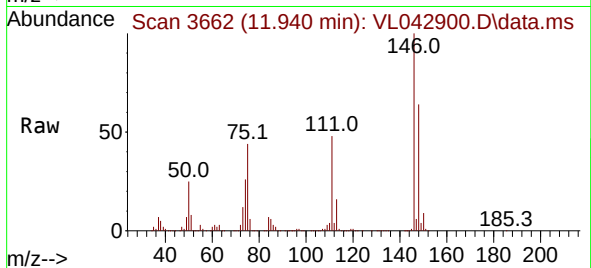
ClientSampleId :

VSTDCCC010

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 146   | Resp: | 28130 |
| Ion Ratio | Lower | Upper |       |
| 146       | 100   |       |       |
| 111       | 50.0  | 24.6  | 74.0  |
| 148       | 63.5  | 32.0  | 96.0  |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#78

Hexachloro-1,3-Butadiene

Concen: 8.266 ppbv

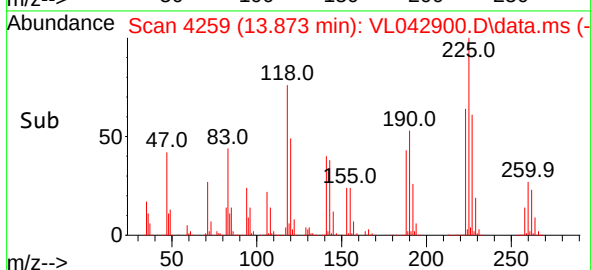
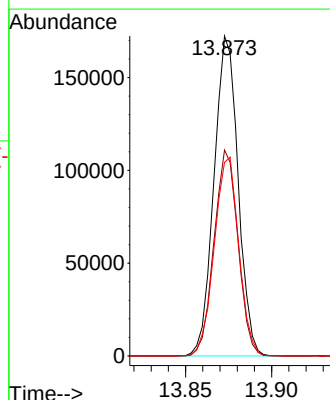
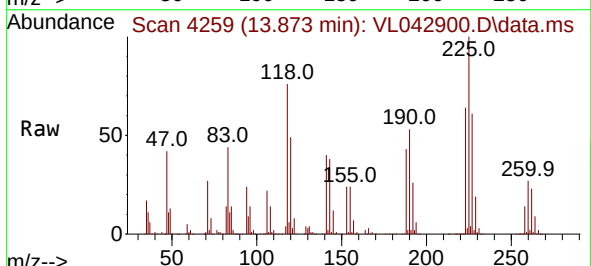
RT: 13.873 min Scan# 4259

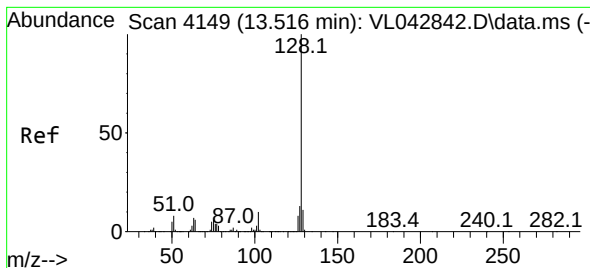
Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

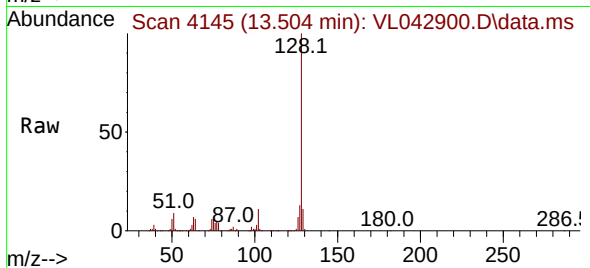
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 167893 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 63.8  | 51.4  | 77.2   |
| 227       | 63.3  | 51.9  | 77.9   |





#79  
Naphthalene  
Concen: 10.613 ppbv  
RT: 13.504 min Scan# 4145  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

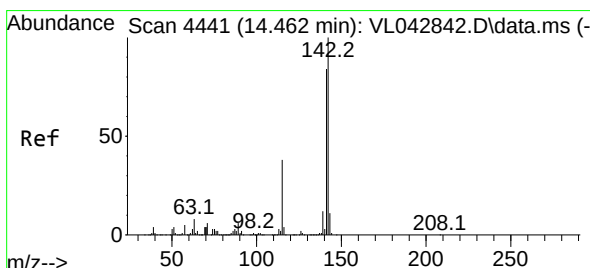
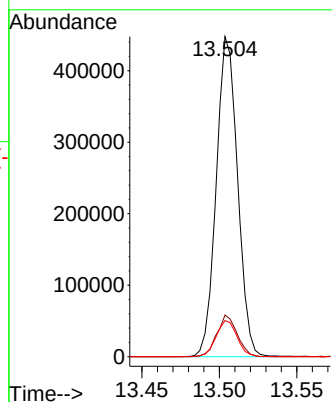
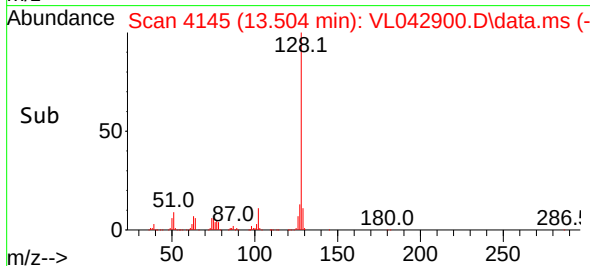
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010



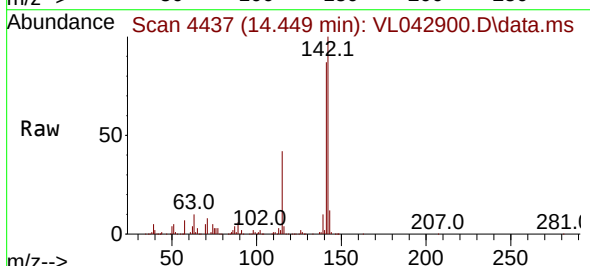
Tgt Ion:128 Resp: 42835  
Ion Ratio Lower Upper  
128 100  
127 13.0 10.6 16.0  
129 11.3 8.9 13.3

Manual Integrations  
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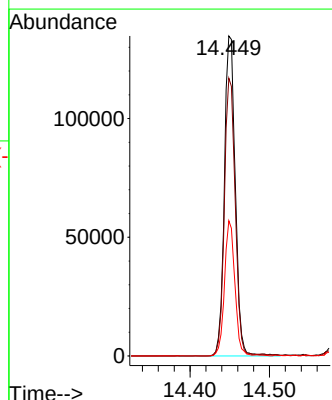
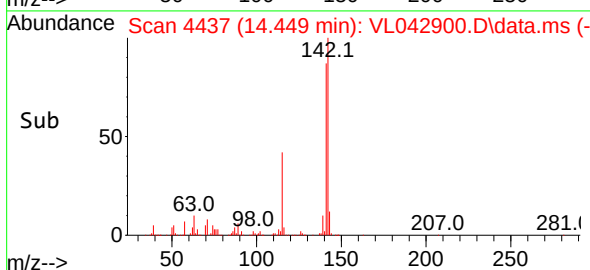
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

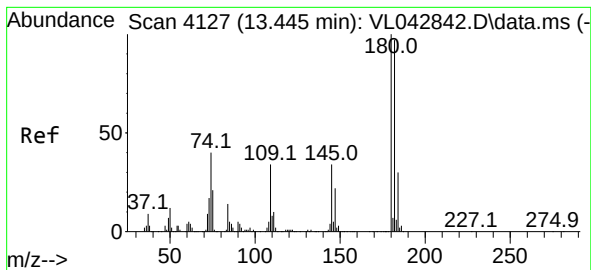


#80  
Naphthalene,2-methyl-  
Concen: 8.470 ppbv  
RT: 14.449 min Scan# 4437  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05



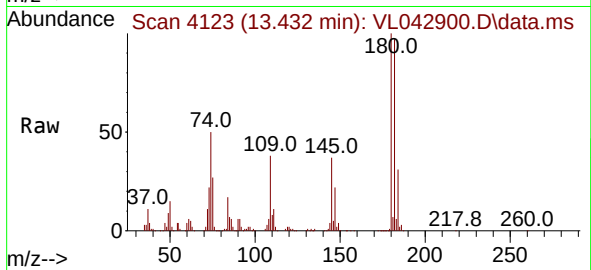
Tgt Ion:142 Resp: 127751  
Ion Ratio Lower Upper  
142 100  
141 87.4 67.0 100.6  
115 40.4 30.9 46.3





#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.226 ppbv  
 RT: 13.432 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

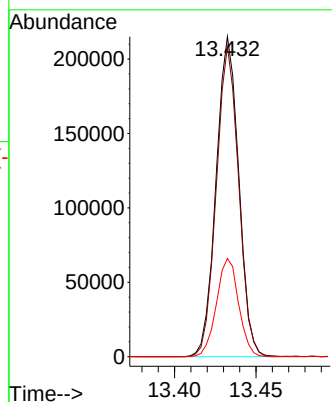
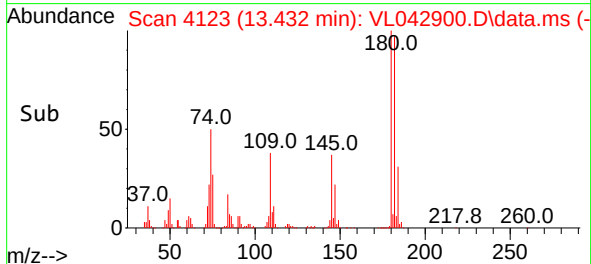
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010



Tgt Ion:180 Resp: 20745  
 Ion Ratio Lower Upper  
 180 100  
 182 95.4 76.9 115.3  
 184 30.0 24.5 36.7

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
Data File : VL042900.D  
Acq On : 08 Sep 2025 11:05  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 09 00:52:45 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 09 00:52:26 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|-------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000 | 0.0   | 95    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.466 | 1.540 | -5.0  | 109   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.620 | 1.767 | -9.1  | 111   | 0.00     |
| 4    | Chloromethane               | 0.591 | 0.591 | 0.0   | 105   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.582 | 0.560 | 3.8   | 106   | 0.00     |
| 6 T  | Bromomethane                | 0.233 | 0.225 | 3.4   | 106   | 0.00     |
| 7    | Chloroethane                | 0.227 | 0.225 | 0.9   | 106   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 1.199 | 1.250 | -4.3  | 106   | 0.00     |
| 9 T  | Propene                     | 0.700 | 0.700 | 0.0   | 102   | 0.00     |
| 10 T | Heptane                     | 1.874 | 1.855 | 1.0   | 103   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.446 | 1.487 | -2.8  | 111   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 1.152 | 1.163 | -1.0  | 106   | 0.00     |
| 13   | Ethanol                     | 0.064 | 0.052 | 18.8  | 106   | 0.00     |
| 14 T | Bromoethene                 | 0.417 | 0.424 | -1.7  | 106   | 0.00     |
| 15 T | Acetone                     | 1.323 | 1.147 | 13.3  | 115   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.600 | 0.558 | 7.0   | 106   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.569 | 1.345 | 14.3  | 93    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.507 | 0.502 | 1.0   | 102   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.790 | 0.703 | 11.0  | 103   | 0.00     |
| 20 T | Methylene Chloride          | 0.554 | 0.455 | 17.9  | 105   | 0.00     |
| 21 T | Allyl Chloride              | 0.935 | 0.903 | 3.4   | 101   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.586 | 0.585 | 0.2   | 104   | 0.00     |
| 23 T | Vinyl Acetate               | 1.819 | 1.802 | 0.9   | 103   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 1.171 | 1.205 | -2.9  | 110   | 0.00     |
| 25 T | Ethyl Acetate               | 3.202 | 3.279 | -2.4  | 106   | 0.00     |
| 26 T | Hexane                      | 1.478 | 1.482 | -0.3  | 101   | 0.00     |
| 27 T | Carbon Disulfide            | 1.438 | 1.526 | -6.1  | 110   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.754 | 0.677 | 10.2  | 98    | 0.00     |
| 29 T | Chloroform                  | 2.110 | 2.223 | -5.4  | 110   | 0.00     |
| 30 T | Cyclohexane                 | 1.296 | 1.208 | 6.8   | 95    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.476 | 1.441 | 2.4   | 102   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 2.230 | 2.143 | 3.9   | 102   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000 | 0.0   | 81    | 0.00     |
| 34 T | 2-Butanone                  | 0.675 | 0.818 | -21.2 | 108   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.689 | 0.807 | -17.1 | 102   | 0.00     |
| 36 T | Benzene                     | 0.958 | 1.097 | -14.5 | 97    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.500 | 0.635 | -27.0 | 106   | 0.00     |
| 38 T | Trichloroethene             | 0.437 | 0.455 | -4.1  | 92    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.350 | 0.419 | -19.7 | 104   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.166 | 0.168 | -1.2  | 91    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.376 | 0.447 | -18.9 | 101   | 0.00     |
| 42 T | Bromodichloromethane        | 0.745 | 0.905 | -21.5 | 103   | 0.00     |
| 43   | Methyl Methacrylate         | 0.394 | 0.425 | -7.9  | 93    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.625 | 1.892 | -16.4 | 101   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.445 | 0.463 | -4.0  | 87    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.555 | 0.602 | -8.5  | 90    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.371 | 0.432 | -16.4 | 102   | 0.00     |
| 48 T | Dibromochloromethane        | 0.600 | 0.685 | -14.2 | 95    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042900.D  
 Acq On : 08 Sep 2025 11:05  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Sep 09 00:52:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 09 00:52:26 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|------|---------------------------|-------|-------|-------|-------|----------|
| 49 T | Bromoform                 | 0.495 | 0.552 | -11.5 | 91    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 0.913 | 1.077 | -18.0 | 99    | 0.00     |
| 51 T | 2-Hexanone                | 0.718 | 0.853 | -18.8 | 98    | 0.00     |
| 52 T | Tetrachloroethene         | 0.346 | 0.331 | 4.3   | 85    | 0.00     |
| 53 T | Toluene                   | 1.138 | 1.205 | -5.9  | 91    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.542 | 0.612 | -12.9 | 98    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0   | 76    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.517 | 0.602 | -16.4 | 97    | 0.00     |
| 57 T | Chlorobenzene             | 0.951 | 1.101 | -15.8 | 96    | 0.00     |
| 58 T | Ethyl Benzene             | 1.765 | 1.974 | -11.8 | 92    | 0.00     |
| 59 T | m/p-Xylene                | 1.383 | 1.618 | -17.0 | 96    | 0.00     |
| 60 T | o-Xylene                  | 1.391 | 1.630 | -17.2 | 98    | 0.00     |
| 61 T | Styrene                   | 0.652 | 0.690 | -5.8  | 86    | 0.00     |
| 62   | Isopropylbenzene          | 2.033 | 2.317 | -14.0 | 96    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.765 | 0.942 | -23.1 | 107   | 0.00     |
| 64   | n-propylbenzene           | 0.519 | 0.582 | -12.1 | 94    | 0.00     |
| 65   | tert-Butylbenzene         | 1.793 | 1.985 | -10.7 | 94    | 0.00     |
| 66 T | Benzyl Chloride           | 0.228 | 0.180 | 21.1  | 60    | 0.00     |
| 67   | sec-Butylbenzene          | 2.516 | 2.946 | -17.1 | 100   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.750 | 0.786 | -4.8  | 80    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.160 | 2.361 | -9.3  | 95    | 0.00     |
| 70   | n-Butylbenzene            | 2.142 | 2.514 | -17.4 | 100   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.579 | 1.761 | -11.5 | 95    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.687 | 1.961 | -16.2 | 96    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.434 | 1.593 | -11.1 | 94    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.574 | 1.799 | -14.3 | 99    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 0.895 | 1.024 | -14.4 | 94    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 0.905 | 1.016 | -12.3 | 93    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.876 | 0.995 | -13.6 | 97    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.718 | 0.594 | 17.3  | 79    | 0.00     |
| 79 T | Naphthalene               | 1.427 | 1.515 | -6.2  | 88    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.533 | 0.452 | 15.2  | 72    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.717 | 0.734 | -2.4  | 85    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
Data File : VL042900.D  
Acq On : 08 Sep 2025 11:05  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 09 00:52:45 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 09 00:52:26 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0   | 95    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 10.511 | -5.1  | 109   | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 10.910 | -9.1  | 111   | 0.00     |
| 4    | Chloromethane               | 10.000 | 9.988  | 0.1   | 105   | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.609  | 3.9   | 106   | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 9.659  | 3.4   | 106   | 0.00     |
| 7    | Chloroethane                | 10.000 | 9.889  | 1.1   | 106   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 10.420 | -4.2  | 106   | 0.00     |
| 9 T  | Propene                     | 10.000 | 10.009 | -0.1  | 102   | 0.00     |
| 10 T | Heptane                     | 10.000 | 9.898  | 1.0   | 103   | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 10.280 | -2.8  | 111   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 10.089 | -0.9  | 106   | 0.00     |
| 13   | Ethanol                     | 10.000 | 8.052  | 19.5  | 106   | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 10.171 | -1.7  | 106   | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.670  | 13.3  | 115   | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.308  | 6.9   | 106   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 8.574  | 14.3  | 93    | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 9.900  | 1.0   | 102   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.893  | 11.1  | 103   | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 8.219  | 17.8  | 105   | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 9.658  | 3.4   | 101   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 9.971  | 0.3   | 104   | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 9.907  | 0.9   | 103   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 10.291 | -2.9  | 110   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 10.242 | -2.4  | 106   | 0.00     |
| 26 T | Hexane                      | 10.000 | 10.031 | -0.3  | 101   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 10.608 | -6.1  | 110   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 8.986  | 10.1  | 98    | 0.00     |
| 29 T | Chloroform                  | 10.000 | 10.538 | -5.4  | 110   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.326  | 6.7   | 95    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.765  | 2.3   | 102   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.609  | 3.9   | 102   | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 81    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 12.107 | -21.1 | 108   | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 11.700 | -17.0 | 102   | 0.00     |
| 36 T | Benzene                     | 10.000 | 11.458 | -14.6 | 97    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 12.686 | -26.9 | 106   | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 10.413 | -4.1  | 92    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 11.970 | -19.7 | 104   | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 10.096 | -1.0  | 91    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 11.863 | -18.6 | 101   | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 12.136 | -21.4 | 103   | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 10.776 | -7.8  | 93    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 11.642 | -16.4 | 101   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 10.411 | -4.1  | 87    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 10.851 | -8.5  | 90    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 11.666 | -16.7 | 102   | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 11.430 | -14.3 | 95    | 0.00     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
Data File : VL042900.D  
Acq On : 08 Sep 2025 11:05  
Operator : SY/MD  
Sample : VSTDCCC010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
LabSampleId :  
VSTDCCC010

Quant Time: Sep 09 00:52:45 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 09 00:52:26 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|---------------------------|--------|--------|-------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 11.158 | -11.6 | 91    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 11.801 | -18.0 | 99    | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 11.872 | -18.7 | 98    | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 9.547  | 4.5   | 85    | 0.00     |
| 53 T | Toluene                   | 10.000 | 10.587 | -5.9  | 91    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 11.307 | -13.1 | 98    | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0   | 76    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 11.648 | -16.5 | 97    | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 11.581 | -15.8 | 96    | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 11.184 | -11.8 | 92    | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 23.388 | -16.9 | 96    | 0.00     |
| 60 T | o-Xylene                  | 10.000 | 11.716 | -17.2 | 98    | 0.00     |
| 61 T | Styrene                   | 10.000 | 10.579 | -5.8  | 86    | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 11.394 | -13.9 | 96    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 12.314 | -23.1 | 107   | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 11.220 | -12.2 | 94    | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 11.075 | -10.7 | 94    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 7.895  | 21.1  | 60    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 11.709 | -17.1 | 100   | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.483 | -4.8  | 80    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 10.929 | -9.3  | 95    | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 11.736 | -17.4 | 100   | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 11.156 | -11.6 | 95    | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 11.624 | -16.2 | 96    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 11.105 | -11.1 | 94    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 11.424 | -14.2 | 99    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 11.445 | -14.5 | 94    | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 11.226 | -12.3 | 93    | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 11.351 | -13.5 | 97    | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 8.266  | 17.3  | 79    | 0.00     |
| 79 T | Naphthalene               | 10.000 | 10.613 | -6.1  | 88    | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 8.470  | 15.3  | 72    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 10.226 | -2.3  | 85    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



# QC SAMPLE DATA

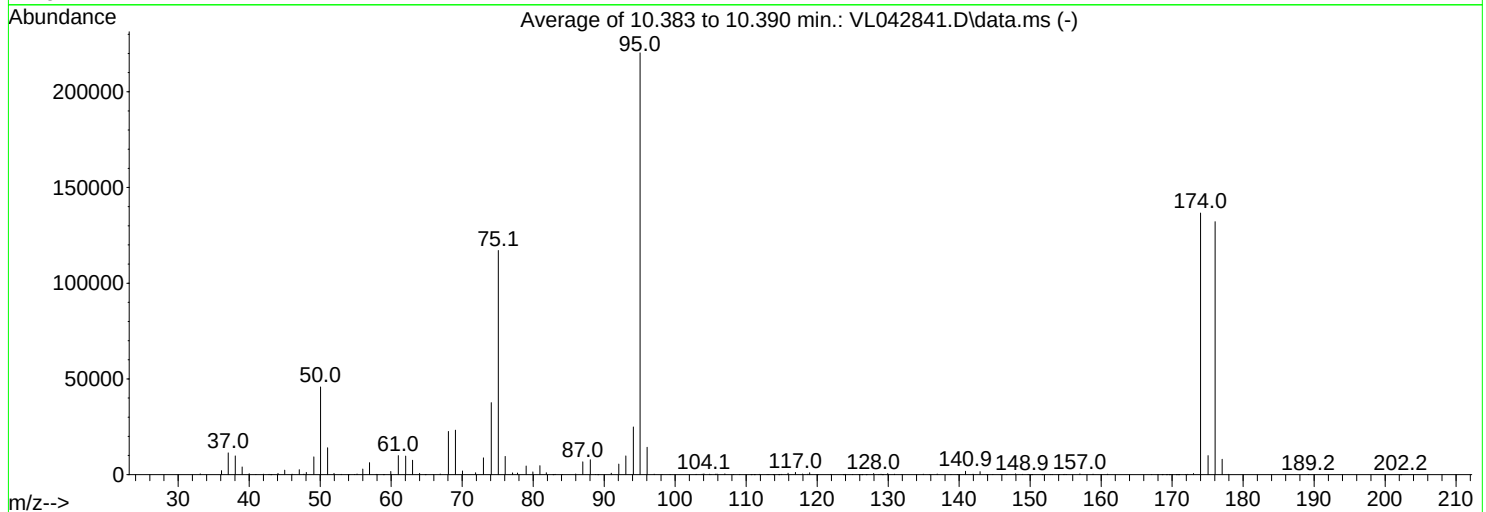
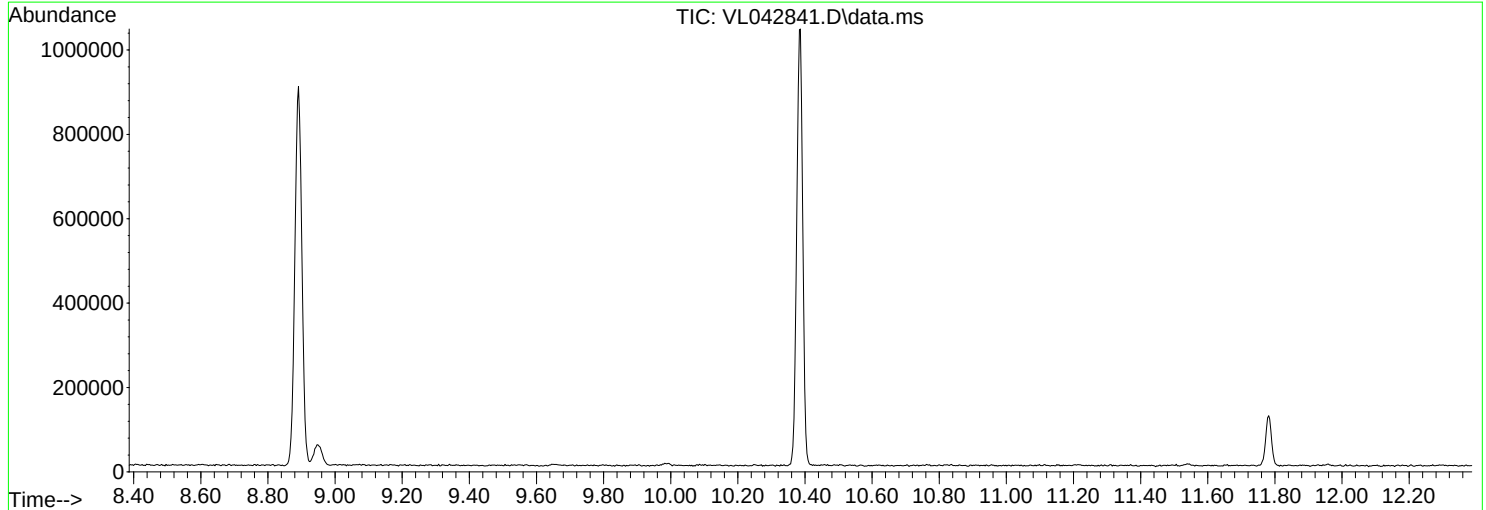
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
Data File : VL042841.D  
Acq On : 13 Aug 2025 07:45  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Thu Aug 14 02:12:54 2025



AutoFind: Scans 3181, 3182, 3183; Background Corrected with Scan 3165

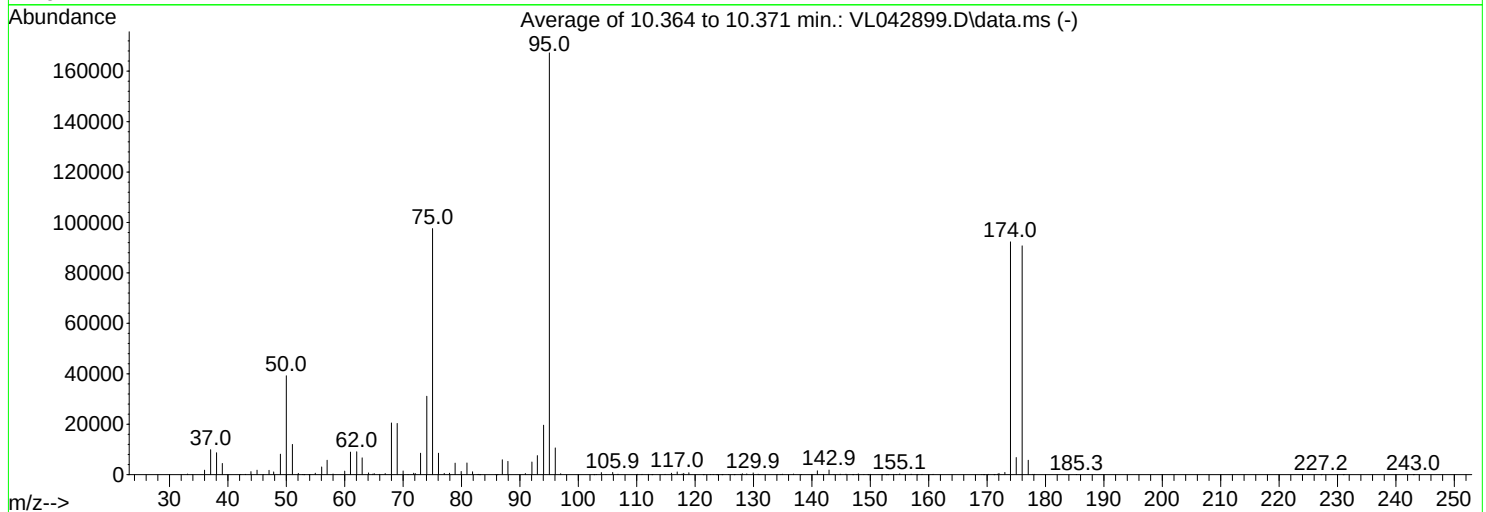
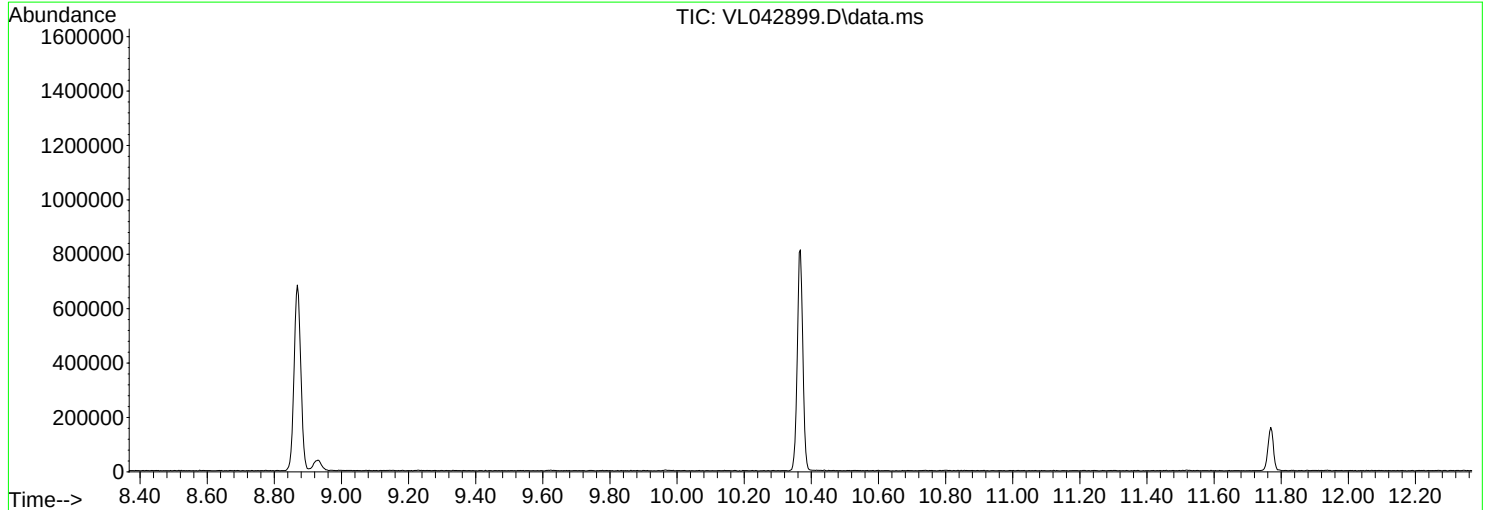
| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 8               | 40              | 20.8         | 45819      | PASS                |
| 75             | 95              | 30              | 66              | 53.1         | 117101     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 220336     | PASS                |
| 96             | 95              | 5               | 9               | 6.5          | 14308      | PASS                |
| 173            | 174             | 0.00            | 2               | 0.4          | 581        | PASS                |
| 174            | 95              | 50              | 120             | 62.0         | 136669     | PASS                |
| 175            | 174             | 4               | 9               | 7.3          | 9984       | PASS                |
| 176            | 174             | 93              | 101             | 96.7         | 132147     | PASS                |
| 177            | 176             | 5               | 9               | 6.1          | 8054       | PASS                |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
Data File : VL042899.D  
Acq On : 08 Sep 2025 08:41  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Tue Sep 09 00:52:26 2025



AutoFind: Scans 3175, 3176, 3177; Background Corrected with Scan 3159

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 23.4  | 39187  | PASS      |
| 75     | 95      | 30     | 66     | 58.3  | 97600  | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 167275 | PASS      |
| 96     | 95      | 5      | 9      | 6.4   | 10626  | PASS      |
| 173    | 174     | 0.00   | 2      | 1.0   | 912    | PASS      |
| 174    | 95      | 50     | 120    | 55.2  | 92299  | PASS      |
| 175    | 174     | 4      | 9      | 7.3   | 6771   | PASS      |
| 176    | 174     | 93     | 101    | 98.3  | 90712  | PASS      |
| 177    | 176     | 5      | 9      | 6.3   | 5742   | PASS      |

## Report of Analysis

|                    |                                                 |                 |              |
|--------------------|-------------------------------------------------|-----------------|--------------|
| Client:            | Apex Companies, LLC.                            | Date Collected: |              |
| Project:           | Emerson Vapor Intrusion REG006-0309010-25011690 | Date Received:  |              |
| Client Sample ID:  | VL0908ABL01                                     | SDG No.:        | Q3038        |
| Lab Sample ID:     | VL0908ABL01                                     | Matrix:         | Air          |
| Analytical Method: | TO-15                                           | Test:           | VOCMS Group2 |
| Sample Wt/Vol:     | 400      Units:    mL                           |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042901.D        | 1         |           | 09/08/25 11:55 | VL090825      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL<br>ug/m3        | LOQ / CRQL<br>ug/m3 |
|---------------------------|-------------------------|---------------|----------------|-----------|---------------------|---------------------|
| <b>TARGETS</b>            |                         |               |                |           |                     |                     |
| 75-01-4                   | Vinyl Chloride          | 0.030         | 0.080          | U         | 0.080               | 0.080               |
| 107-06-2                  | 1,2-Dichloroethane      | 0.090         | 0.36           | U         | 0.36                | 2.02                |
| 79-01-6                   | Trichloroethene         | 0.020         | 0.11           | U         | 0.11                | 0.16                |
| 127-18-4                  | Tetrachloroethene       | 0.020         | 0.14           | U         | 0.14                | 0.20                |
| <b>SURROGATES</b>         |                         |               |                |           |                     |                     |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 10.2          |                |           | 70 (65) - 130 (135) | 102%    SPK: 10     |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |                     |                     |
| 74-97-5                   | Bromochloromethane      | 141000        |                | 2.784     |                     |                     |
| 540-36-3                  | 1,4-Difluorobenzene     | 355000        |                | 3.952     |                     |                     |
| 3114-55-4                 | Chlorobenzene-d5        | 299000        |                | 8.875     |                     |                     |

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
Data File : VL042901.D  
Acq On : 08 Sep 2025 11:55  
Operator : SY/MD  
Sample : VL0908ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABL01

Quant Time: Sep 09 00:55:32 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 09 00:52:26 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 141293   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 355217   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 298537   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 227668   | 10.169   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.700% |

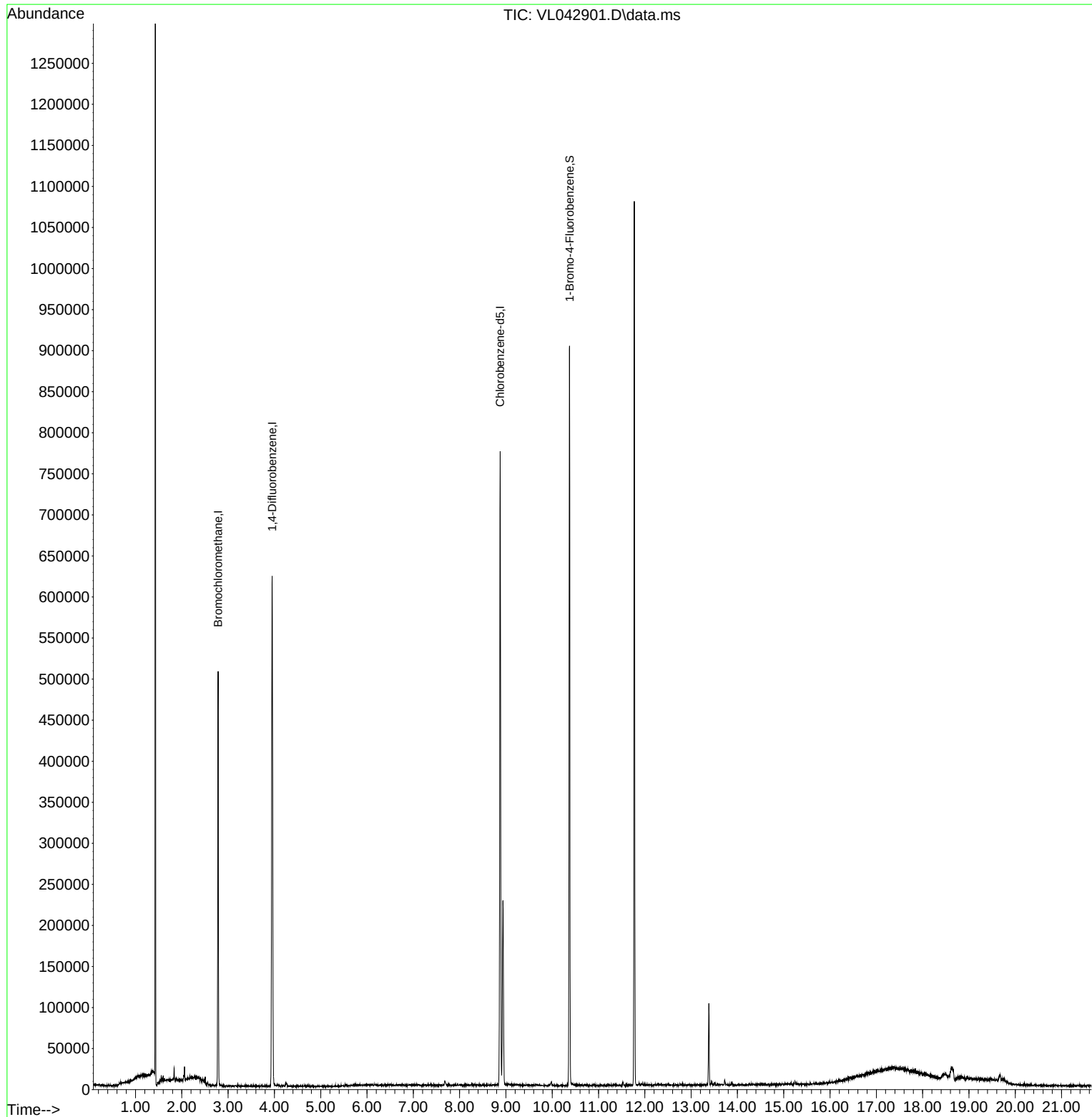
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

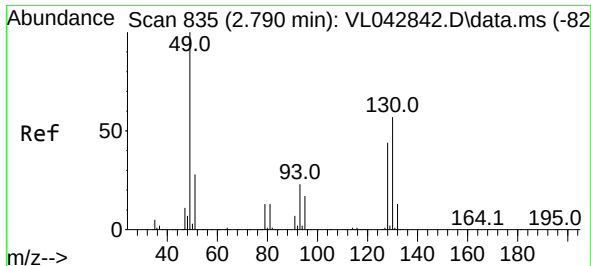
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
Data File : VL042901.D  
Acq On : 08 Sep 2025 11:55  
Operator : SY/MD  
Sample : VL0908ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABL01

Quant Time: Sep 09 00:55:32 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 09 00:52:26 2025  
Response via : Initial Calibration



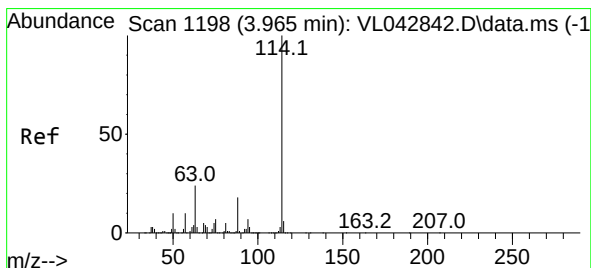
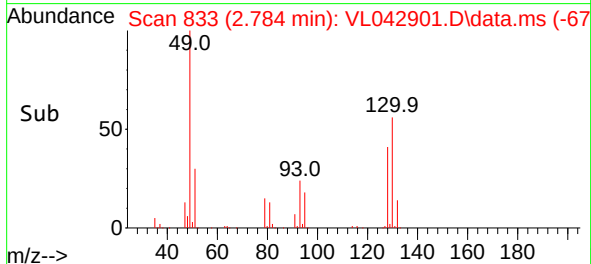
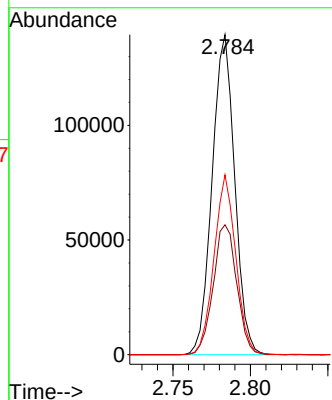
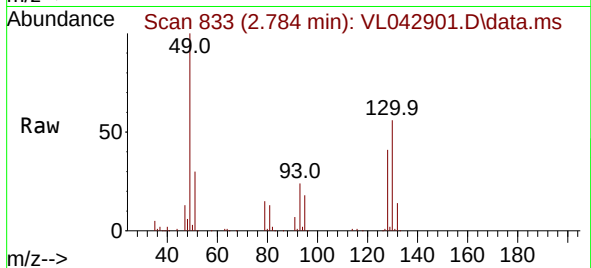




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.784 min Scan# 81  
 Delta R.T. 0.007 min  
 Lab File: VL042901.D  
 Acq: 08 Sep 2025 11:55

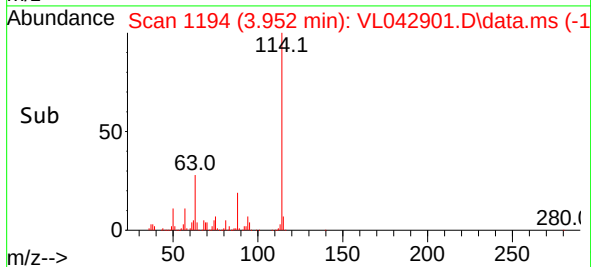
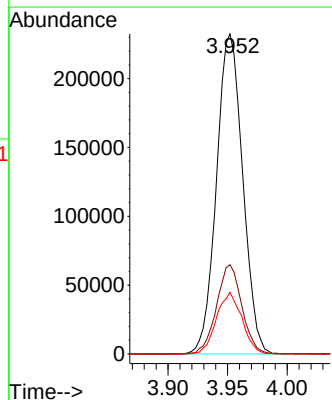
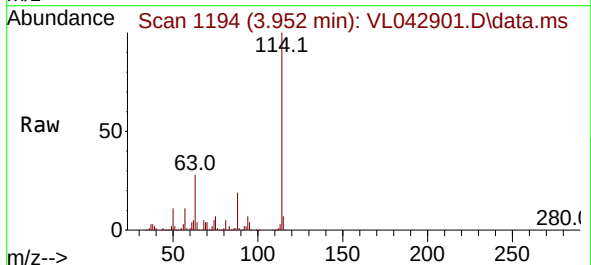
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABL01

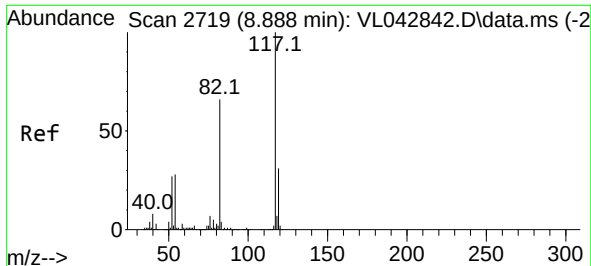
Tgt Ion: 49 Resp: 141293  
 Ion Ratio Lower Upper  
 49 100  
 128 42.4 23.7 71.1  
 130 54.2 30.6 91.6



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.952 min Scan# 1194  
 Delta R.T. 0.009 min  
 Lab File: VL042901.D  
 Acq: 08 Sep 2025 11:55

Tgt Ion: 114 Resp: 355217  
 Ion Ratio Lower Upper  
 114 100  
 63 26.9 19.7 29.5  
 88 18.7 14.4 21.6

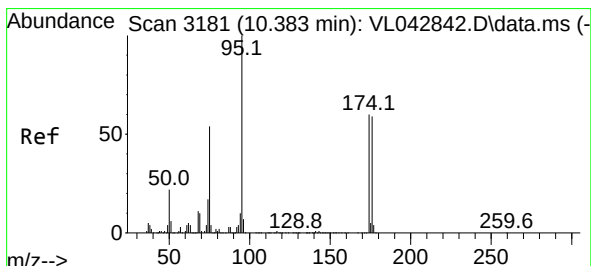
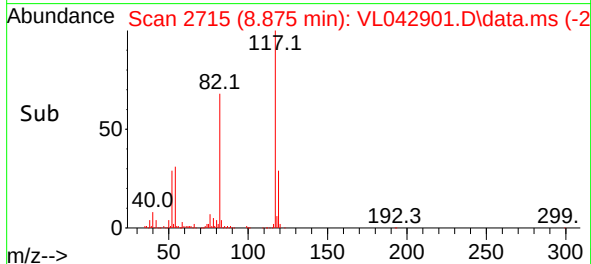
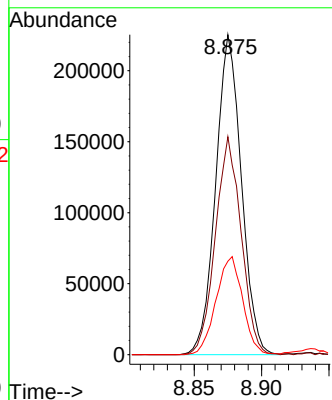
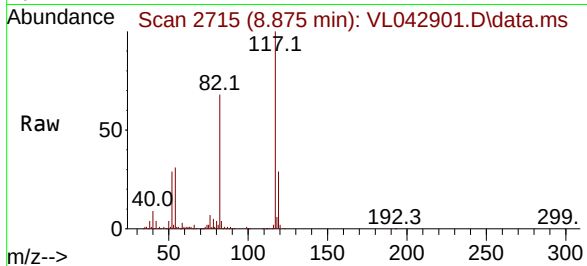




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.875 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VL042901.D  
Acq: 08 Sep 2025 11:55

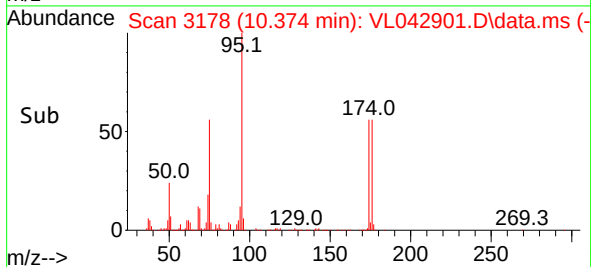
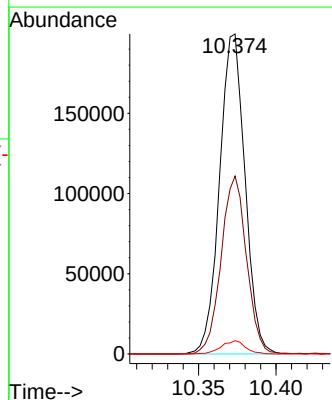
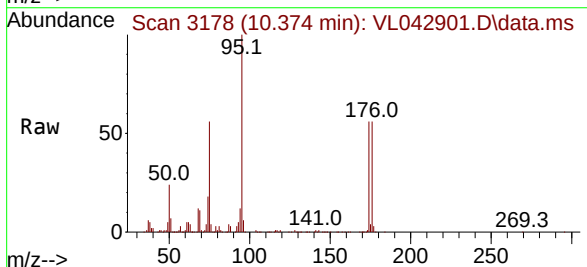
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABL01

Tgt Ion:117 Resp: 298537  
Ion Ratio Lower Upper  
117 100  
82 68.4 54.6 81.8  
119 31.8 25.9 38.9



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.169 ppbv  
RT: 10.374 min Scan# 3178  
Delta R.T. 0.009 min  
Lab File: VL042901.D  
Acq: 08 Sep 2025 11:55

Tgt Ion: 95 Resp: 227668  
Ion Ratio Lower Upper  
95 100  
174 55.5 48.4 72.6  
175 3.9 3.8 5.8



## Report of Analysis

|                    |                                                 |                 |              |
|--------------------|-------------------------------------------------|-----------------|--------------|
| Client:            | Apex Companies, LLC.                            | Date Collected: |              |
| Project:           | Emerson Vapor Intrusion REG006-0309010-25011690 | Date Received:  |              |
| Client Sample ID:  | VL0908ABS01                                     | SDG No.:        | Q3038        |
| Lab Sample ID:     | VL0908ABS01                                     | Matrix:         | Air          |
| Analytical Method: | TO-15                                           | Test:           | VOCMS Group2 |
| Sample Wt/Vol:     | 400      Units:    mL                           |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042902.D        | 1         |           | 09/08/25 13:35 | VL090825      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL<br>ug/m3        | LOQ / CRQL<br>ug/m3 |
|---------------------------|-------------------------|---------------|----------------|-----------|---------------------|---------------------|
| <b>TARGETS</b>            |                         |               |                |           |                     |                     |
| 75-01-4                   | Vinyl Chloride          | 9.60          | 24.5           |           | 0.080               | 0.080               |
| 107-06-2                  | 1,2-Dichloroethane      | 12.7          | 51.4           |           | 0.36                | 2.02                |
| 79-01-6                   | Trichloroethene         | 10.4          | 55.9           |           | 0.11                | 0.16                |
| 127-18-4                  | Tetrachloroethene       | 9.60          | 65.1           |           | 0.14                | 0.20                |
| <b>SURROGATES</b>         |                         |               |                |           |                     |                     |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 10.5          |                |           | 70 (65) - 130 (135) | 105%    SPK: 10     |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |                     |                     |
| 74-97-5                   | Bromochloromethane      | 140000        |                | 2.781     |                     |                     |
| 540-36-3                  | 1,4-Difluorobenzene     | 366000        |                | 3.946     |                     |                     |
| 3114-55-4                 | Chlorobenzene-d5        | 306000        |                | 8.872     |                     |                     |

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042902.D  
 Acq On : 08 Sep 2025 13:35  
 Operator : SY/MD  
 Sample : VL0908ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025  
 Supervised By : Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:55:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2025

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.781  | 49    | 139945   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.946  | 114   | 365857   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.872  | 117   | 306385   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.367 | 95    | 240840   | 10.481   | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 104.800% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.492  | 85    | 220085   | 10.731   | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.470  | 51    | 263595   | 11.627   | ppbv   | 98       |
| 4) Chloromethane              | 1.528  | 50    | 84783    | 10.244   | ppbv   | 99       |
| 5) Vinyl Chloride             | 1.577  | 62    | 78545    | 9.636    | ppbv   | 99       |
| 6) Bromomethane               | 1.664  | 94    | 31405    | 9.636    | ppbv   | 96       |
| 7) Chloroethane               | 1.700  | 64    | 30810    | 9.679    | ppbv   | 94       |
| 8) Dichlorotetrafluoroethane  | 1.551  | 85    | 175617   | 10.464   | ppbv   | 96       |
| 9) Propene                    | 1.476  | 41    | 56496m   | 5.770    | ppbv   |          |
| 10) Heptane                   | 4.965  | 43    | 256593   | 9.785    | ppbv   | 99       |
| 11) Trichlorofluoromethane    | 1.871  | 101   | 206104   | 10.185   | ppbv   | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.133  | 101   | 164464   | 10.197   | ppbv   | 96       |
| 13) Ethanol                   | 1.716  | 45    | 7225     | 8.071    | ppbv   | 92       |
| 14) Bromoethene               | 1.777  | 108   | 58442    | 10.009   | ppbv   | 99       |
| 15) Acetone                   | 1.829  | 43    | 156147   | 8.435    | ppbv   | 99       |
| 16) 1,3-Butadiene             | 1.606  | 39    | 77632    | 9.250    | ppbv   | 97       |
| 17) tert-Butyl alcohol        | 2.036  | 59    | 176056   | 8.020    | ppbv   | 99       |
| 18) 1,1-Dichloroethene        | 2.026  | 96    | 68830    | 9.707    | ppbv   | 97       |
| 19) Isopropyl Alcohol         | 1.881  | 45    | 97198    | 8.791    | ppbv   | 93       |
| 20) Methylene Chloride        | 2.056  | 84    | 62334    | 8.038    | ppbv   | 93       |
| 21) Allyl Chloride            | 2.091  | 41    | 125191   | 9.573    | ppbv   | 94       |
| 22) trans-1,2-Dichloroethene  | 2.334  | 96    | 82077    | 10.005   | ppbv   | 98       |
| 23) Vinyl Acetate             | 2.454  | 43    | 270676   | 10.634   | ppbv # | 99       |
| 24) 1,1-Dichloroethane        | 2.402  | 63    | 164910   | 10.066   | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.826  | 43    | 458640   | 10.237   | ppbv   | 99       |
| 26) Hexane                    | 2.816  | 57    | 207705   | 10.043   | ppbv   | 95       |
| 27) Carbon Disulfide          | 2.143  | 76    | 206751   | 10.273   | ppbv   | 98       |
| 28) Methyl tert-Butyl Ether   | 2.431  | 73    | 95768    | 9.082    | ppbv   | 93       |
| 29) Chloroform                | 2.839  | 83    | 311859   | 10.562   | ppbv   | 97       |
| 30) Cyclohexane               | 3.845  | 84    | 169353   | 9.340    | ppbv   | 96       |
| 31) cis-1,2-Dichloroethene    | 2.713  | 61    | 202349   | 9.796    | ppbv   | 97       |
| 32) 1,1,1-Trichloroethane     | 3.357  | 97    | 293618   | 9.409    | ppbv   | 96       |
| 34) 2-Butanone                | 2.551  | 43    | 298071   | 12.066   | ppbv   | 98       |
| 35) Carbon Tetrachloride      | 3.748  | 117   | 297085   | 11.779   | ppbv   | 98       |
| 36) Benzene                   | 3.645  | 78    | 407263   | 11.625   | ppbv   | 99       |
| 37) 1,2-Dichloroethane        | 3.208  | 62    | 232809   | 12.720   | ppbv   | 99       |
| 38) Trichloroethene           | 4.532  | 130   | 166529   | 10.408   | ppbv   | 96       |
| 39) 1,2-Dichloropropane       | 4.302  | 63    | 153042   | 11.961   | ppbv   | 96       |
| 40) 1,4-Dioxane               | 4.567  | 88    | 61682    | 10.138   | ppbv # | 88       |
| 41) Tetrahydrofuran           | 3.046  | 42    | 164268   | 11.927   | ppbv   | 97       |
| 42) Bromodichloromethane      | 4.473  | 83    | 336858   | 12.351   | ppbv   | 98       |
| 43) Methyl Methacrylate       | 4.862  | 69    | 158457   | 10.979   | ppbv   | 98       |
| 44) 2,2,4-Trimethylpentane    | 4.625  | 57    | 701486   | 11.797   | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 6.399  | 75    | 169435   | 10.403   | ppbv   | 97       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042902.D  
 Acq On : 08 Sep 2025 13:35  
 Operator : SY/MD  
 Sample : VL0908ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:55:51 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2025

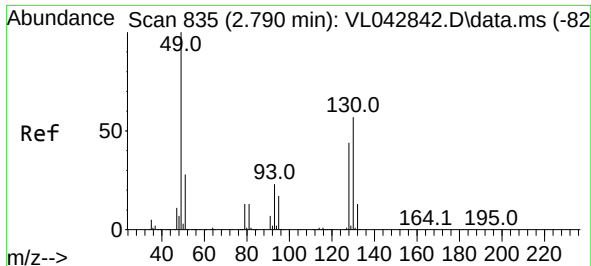
QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.583  | 75   | 223871   | 11.031 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.564  | 97   | 156460   | 11.541 | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.373  | 129  | 256923   | 11.712 | ppbv   | 99       |
| 49) Bromoform                 | 9.474  | 173  | 203018   | 11.222 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.732  | 43   | 390291   | 11.688 | ppbv   | 97       |
| 51) 2-Hexanone                | 7.422  | 43   | 311589   | 11.858 | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.212  | 164  | 122229   | 9.644  | ppbv   | 93       |
| 53) Toluene                   | 6.920  | 91   | 447844   | 10.752 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.639  | 107  | 223417   | 11.277 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.917  | 131  | 190922   | 12.050 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.911  | 112  | 345342   | 11.855 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.344  | 91   | 618650   | 11.442 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.542  | 91   | 1015739m | 23.968 | ppbv   |          |
| 60) o-Xylene                  | 9.956  | 91   | 504922   | 11.844 | ppbv   | 99       |
| 61) Styrene                   | 9.862  | 104  | 212594   | 10.644 | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.532 | 105  | 717761   | 11.521 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.953  | 83   | 295111   | 12.588 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.982 | 120  | 186258   | 11.717 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.523 | 119  | 633844   | 11.541 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.607 | 91   | 55458    | 7.954  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.759 | 105  | 904977   | 11.739 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.918 | 119  | 743217   | 11.229 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.274 | 91   | 793205   | 12.084 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 10.892 | 91   | 551398   | 11.398 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.118 | 105  | 613510   | 11.871 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.196 | 105  | 505222   | 11.496 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.529 | 105  | 562868   | 11.668 | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 11.600 | 146  | 322979   | 11.778 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.665 | 146  | 320689   | 11.563 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.940 | 146  | 309433   | 11.524 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.876 | 225  | 187990   | 8.542  | ppbv   | 97       |
| 79) Naphthalene               | 13.507 | 128  | 477313   | 10.914 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.449 | 142  | 142381   | 8.713  | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.432 | 180  | 228630   | 10.401 | ppbv   | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed





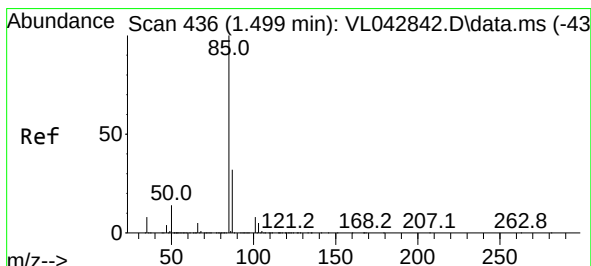
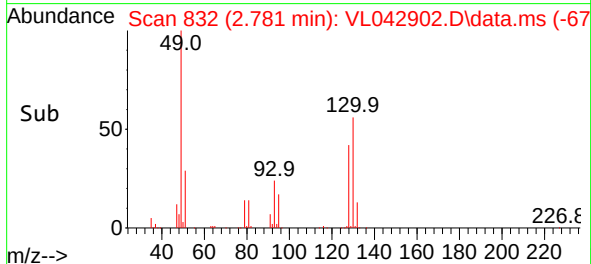
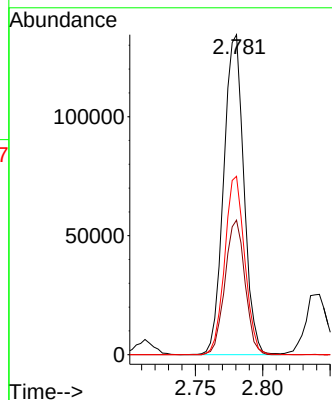
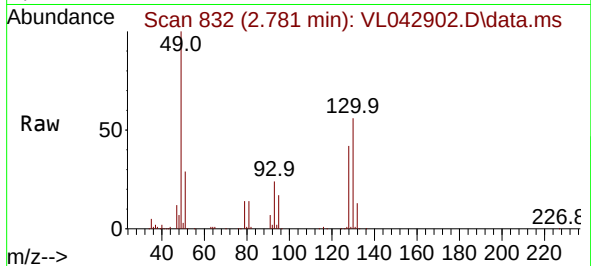
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.781 min Scan# 81  
Delta R.T. 0.004 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion: 49 Resp: 13994  
Ion Ratio Lower Upper  
49 100  
128 41.6 23.7 71.1  
130 55.2 30.6 91.6

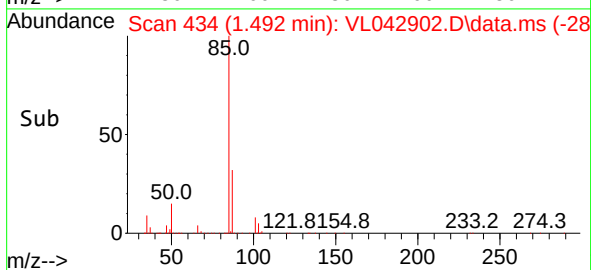
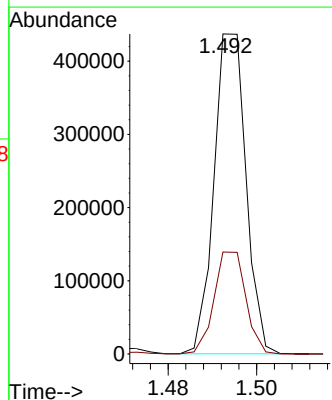
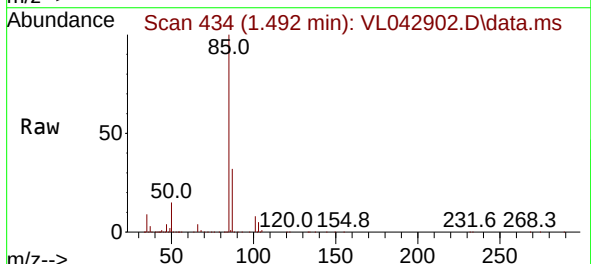
Manual Integrations  
APPROVED

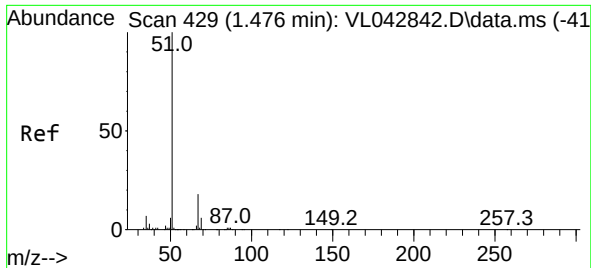
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#2  
Dichlorodifluoromethane  
Concen: 10.731 ppbv  
RT: 1.492 min Scan# 434  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

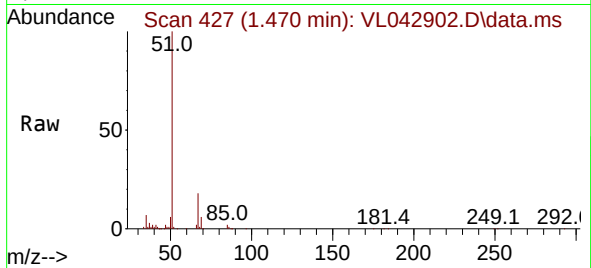
Tgt Ion: 85 Resp: 220085  
Ion Ratio Lower Upper  
85 100  
87 31.9 25.3 37.9





#3  
Chlorodifluoromethane  
Concen: 11.627 ppbv  
RT: 1.470 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

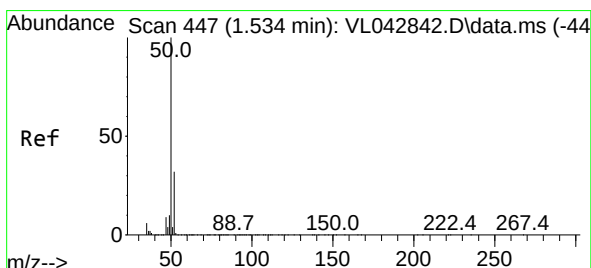
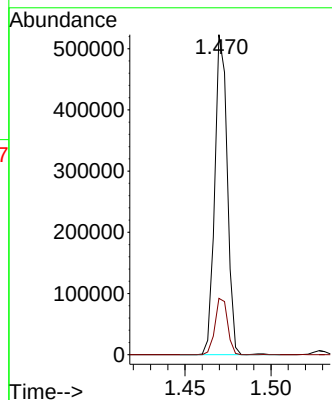
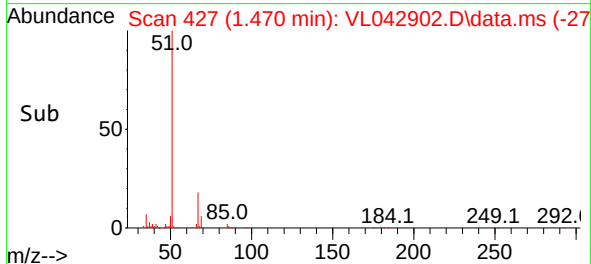
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



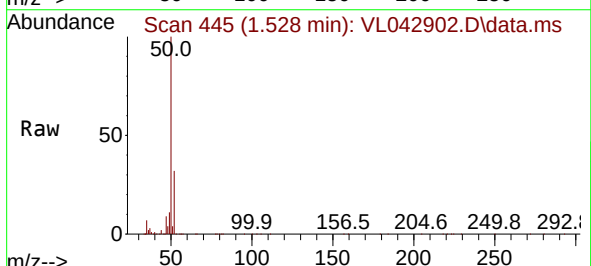
Tgt Ion: 51 Resp: 26359  
Ion Ratio Lower Upper  
51 100  
67 17.8 14.9 22.3

Manual Integrations  
APPROVED

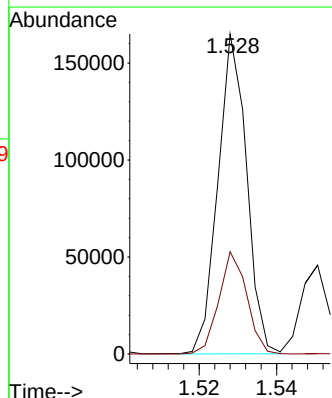
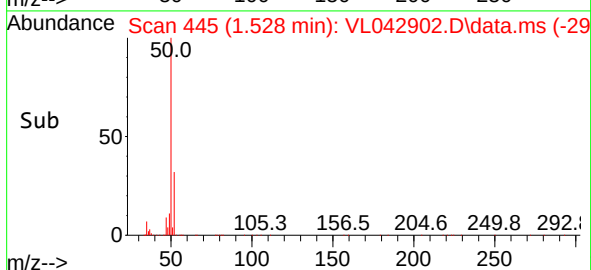
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



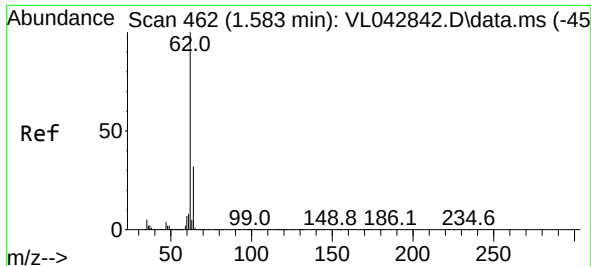
#4  
Chloromethane  
Concen: 10.244 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



Tgt Ion: 50 Resp: 84783  
Ion Ratio Lower Upper  
50 100  
52 32.0 25.9 38.9

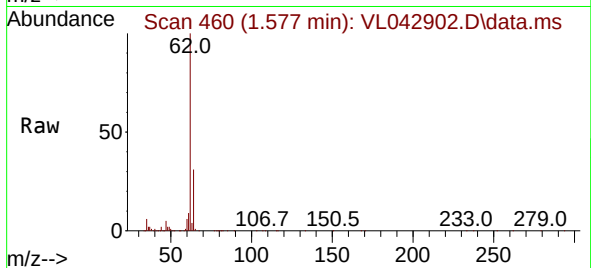






#5  
 Vinyl Chloride  
 Concen: 9.636 ppbv  
 RT: 1.577 min Scan# 460  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

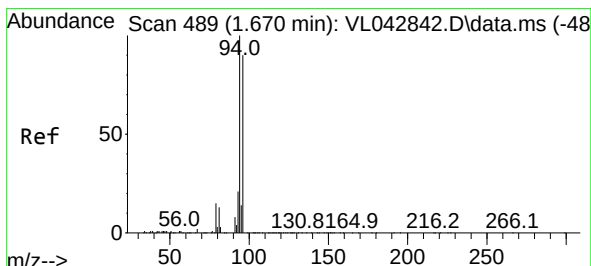
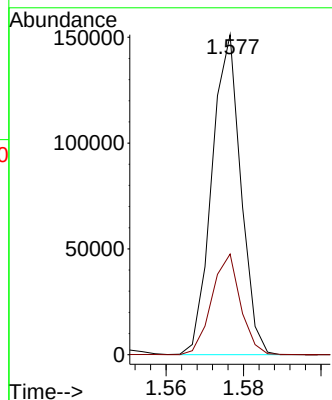
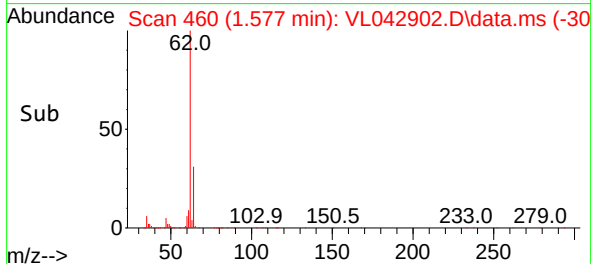
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01



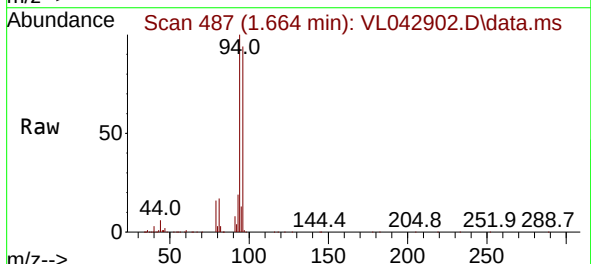
Tgt Ion: 62 Resp: 78549  
 Ion Ratio Lower Upper  
 62 100  
 64 31.5 25.4 38.2

Manual Integrations  
 APPROVED

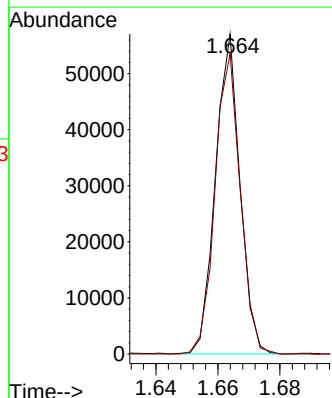
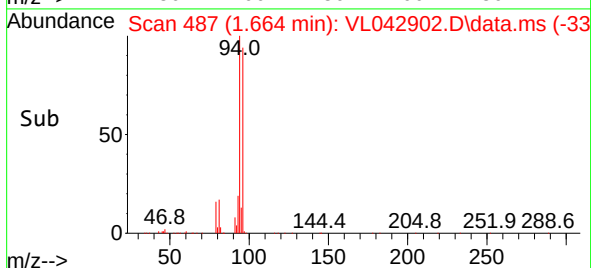
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

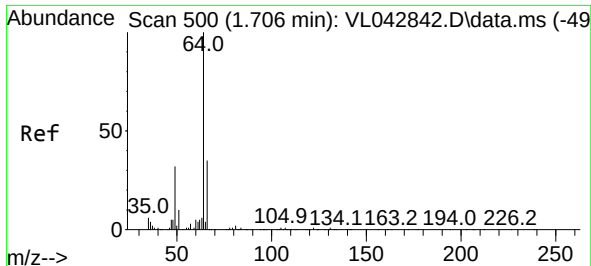


#6  
 Bromomethane  
 Concen: 9.636 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35



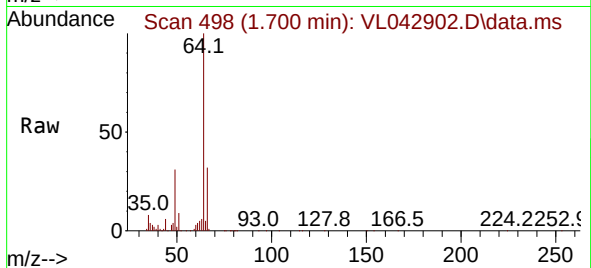
Tgt Ion: 94 Resp: 31405  
 Ion Ratio Lower Upper  
 94 100  
 96 93.8 72.1 108.1





#7  
Chloroethane  
Concen: 9.679 ppbv  
RT: 1.700 min Scan# 498  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

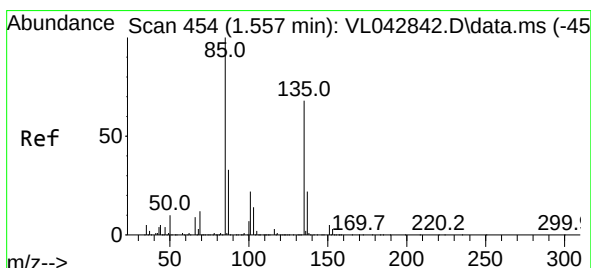
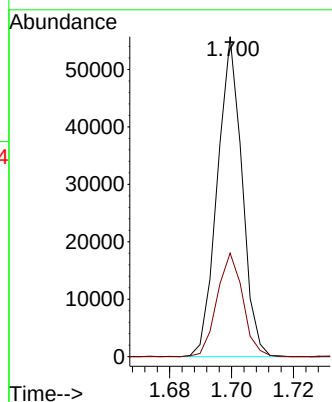
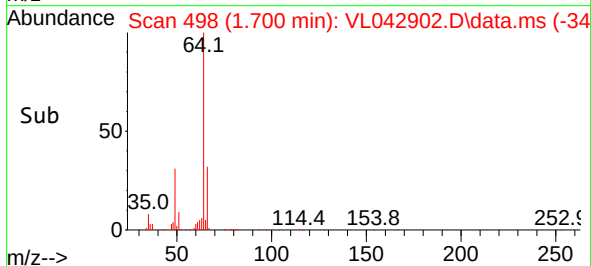
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



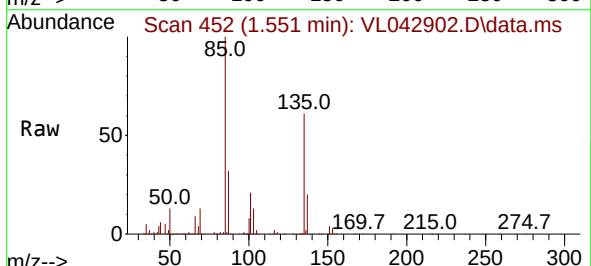
Tgt Ion: 64 Resp: 30810  
Ion Ratio Lower Upper  
64 100  
66 32.3 28.6 42.8

Manual Integrations  
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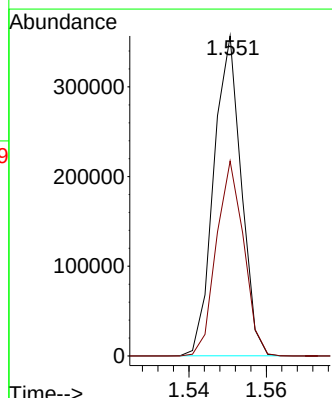
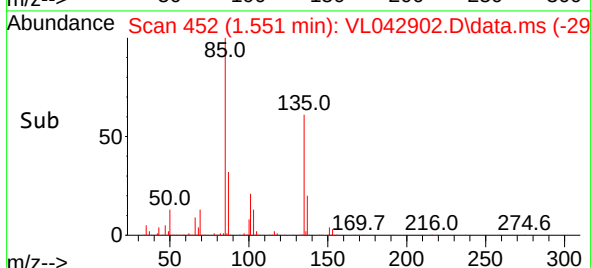
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

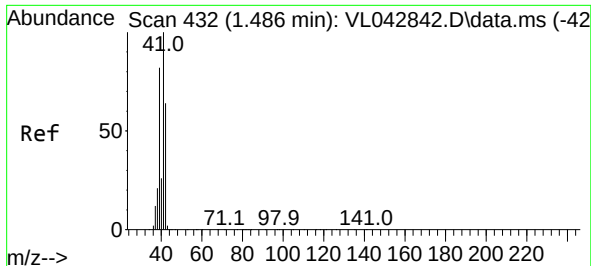


#8  
Dichlorotetrafluoroethane  
Concen: 10.464 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



Tgt Ion: 85 Resp: 175617  
Ion Ratio Lower Upper  
85 100  
135 60.9 51.2 76.8





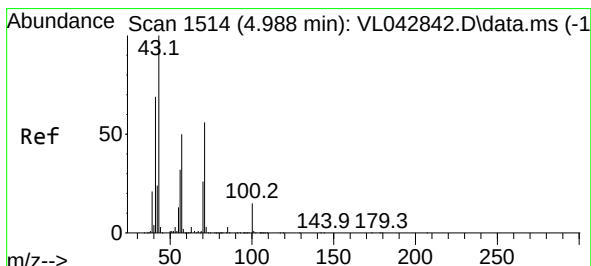
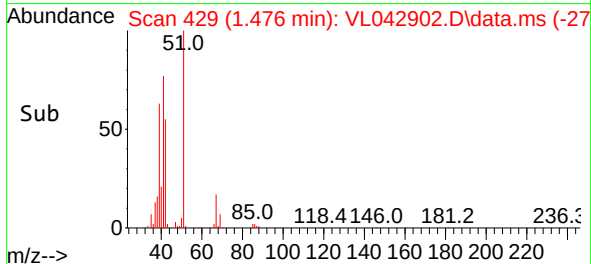
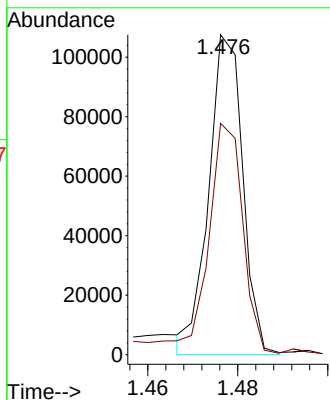
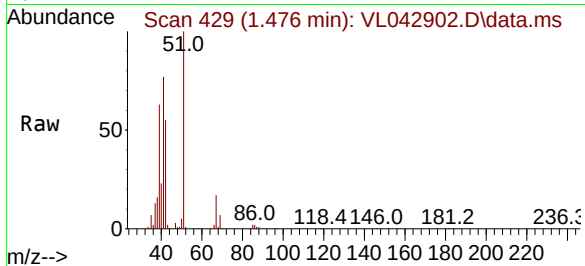
#9  
Propene  
Concen: 5.770 ppbv m  
RT: 1.476 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion: 41 Resp: 56490  
Ion Ratio Lower Upper  
41 100  
42 10.7 53.0 79.4

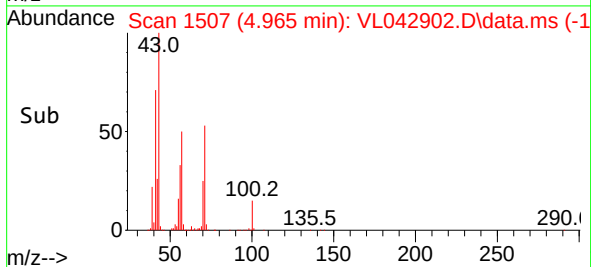
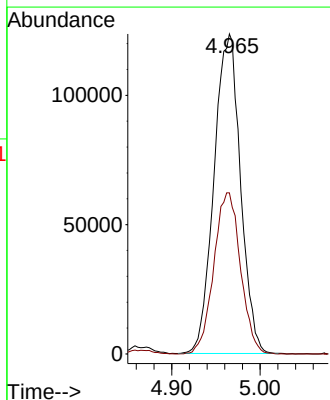
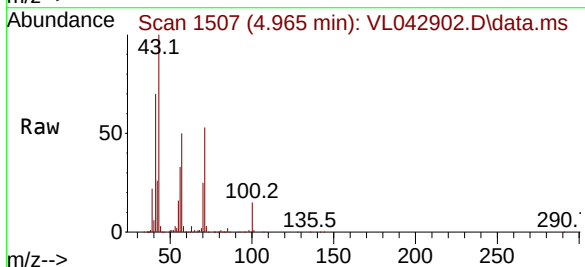
Manual Integrations  
APPROVED

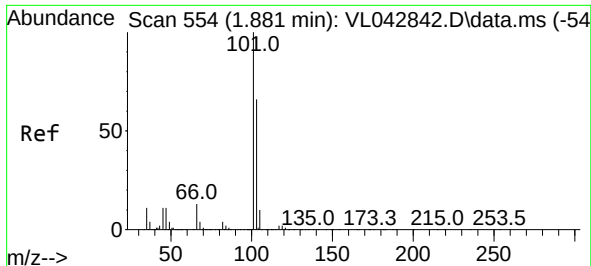
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#10  
Heptane  
Concen: 9.785 ppbv  
RT: 4.965 min Scan# 1507  
Delta R.T. 0.006 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

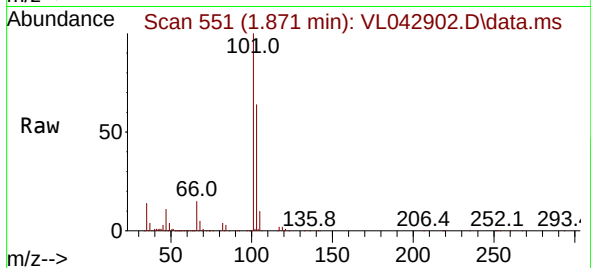
Tgt Ion: 43 Resp: 256593  
Ion Ratio Lower Upper  
43 100  
57 50.9 41.4 62.0





#11  
 Trichlorofluoromethane  
 Concen: 10.185 ppbv  
 RT: 1.871 min Scan# 511  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

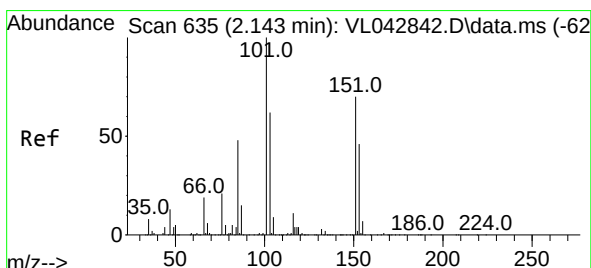
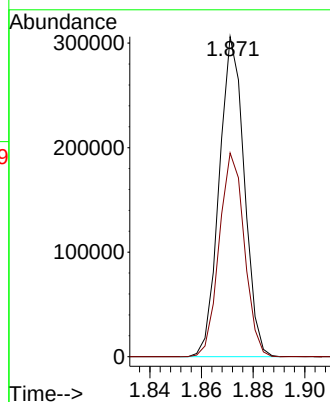
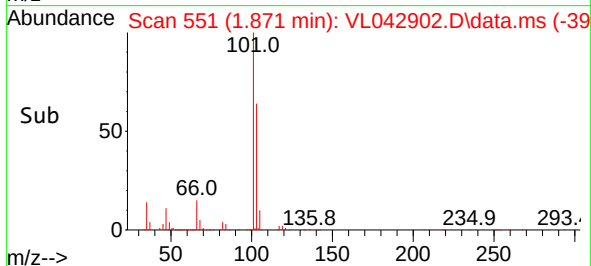
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01



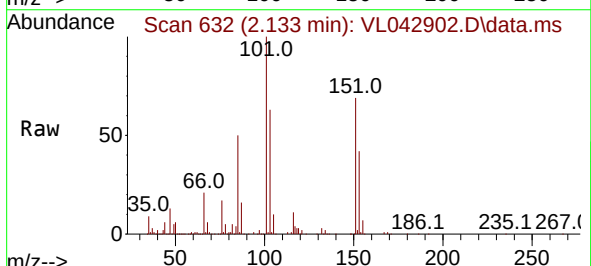
Tgt Ion:101 Resp: 206104  
 Ion Ratio Lower Upper  
 101 100  
 103 63.6 52.5 78.7

Manual Integrations  
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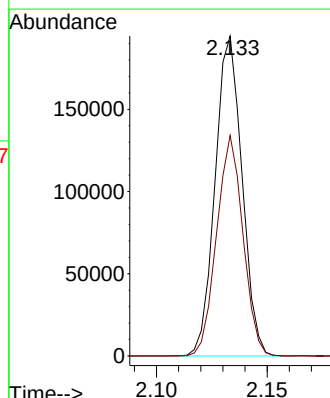
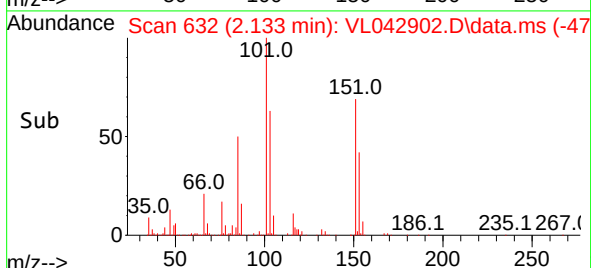
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

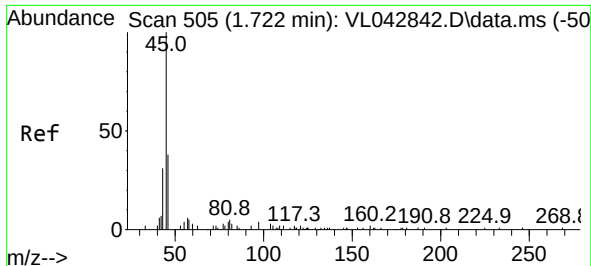


#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.197 ppbv  
 RT: 2.133 min Scan# 632  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35



Tgt Ion:101 Resp: 164464  
 Ion Ratio Lower Upper  
 101 100  
 151 67.4 56.4 84.6





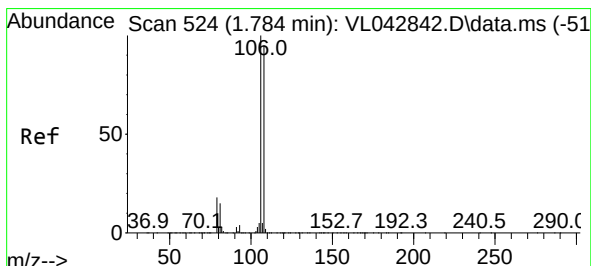
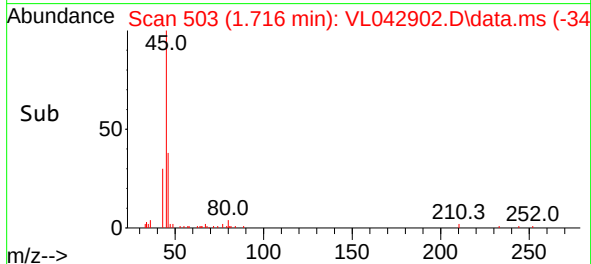
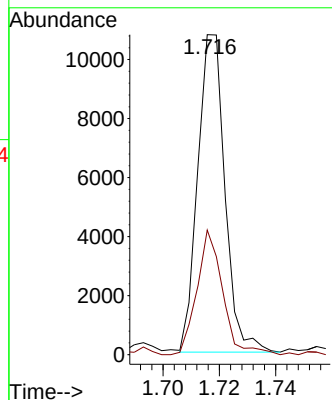
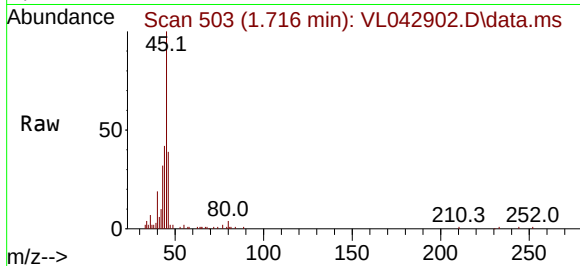
#13  
Ethanol  
Concen: 8.071 ppbv  
RT: 1.716 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument : MSVOA\_L  
ClientSampleId : VL0908ABS01

Tgt Ion: 45 Resp: 7225  
Ion Ratio Lower Upper  
45 100  
46 38.4 17.5 69.9

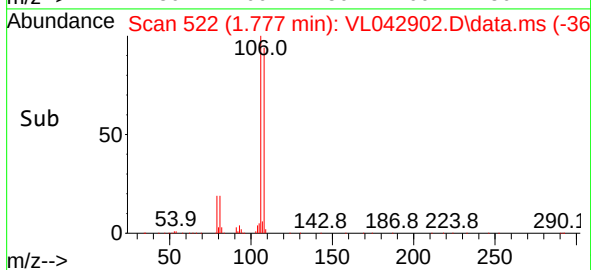
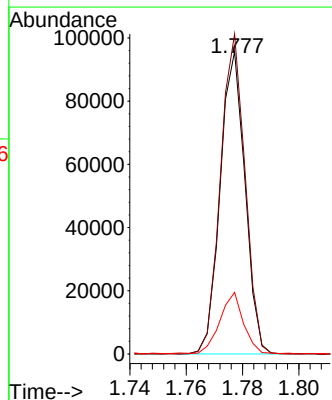
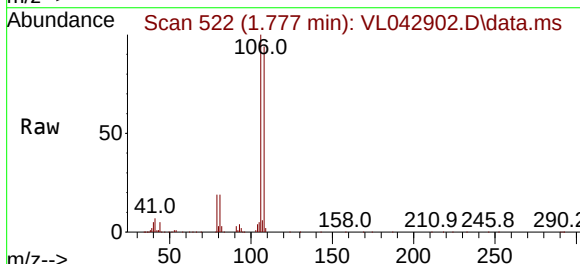
Manual Integrations  
APPROVED

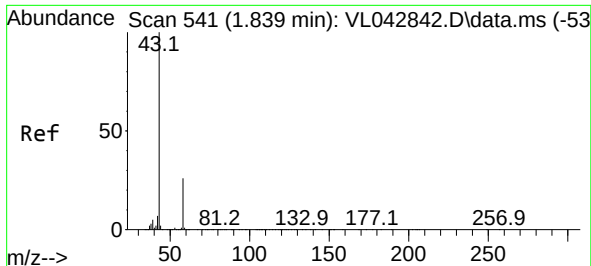
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#14  
Bromoethene  
Concen: 10.009 ppbv  
RT: 1.777 min Scan# 522  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:108 Resp: 58442  
Ion Ratio Lower Upper  
108 100  
106 104.8 85.1 127.7  
79 20.1 16.3 24.5





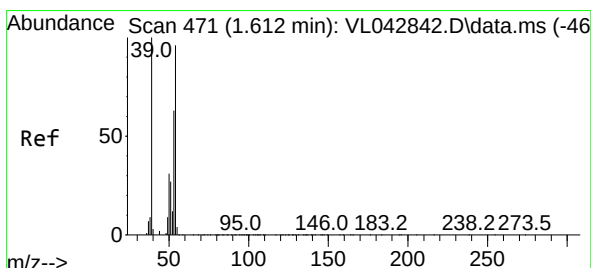
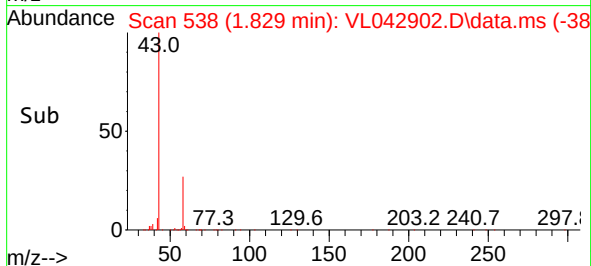
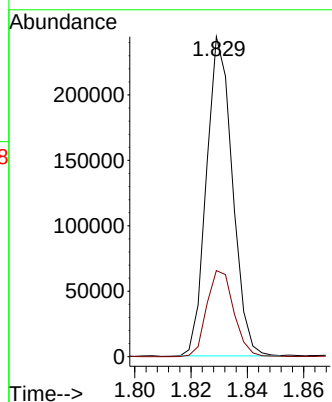
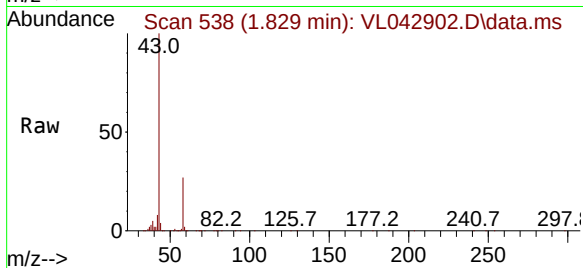
#15  
Acetone  
Concen: 8.435 ppbv  
RT: 1.829 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion: 43 Resp: 15614  
Ion Ratio Lower Upper  
43 100  
58 28.3 22.4 33.6

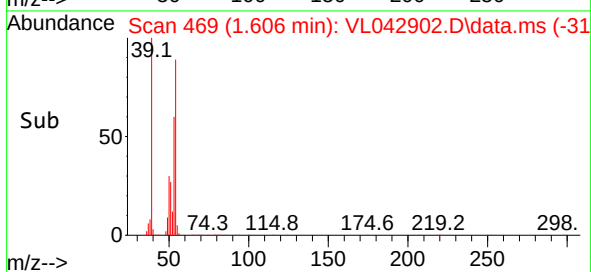
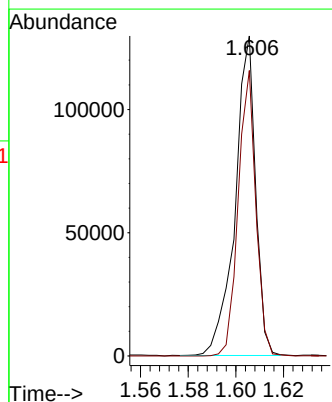
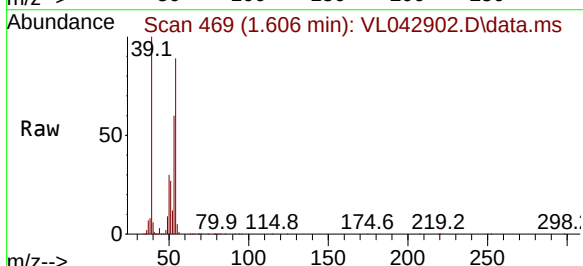
Manual Integrations  
APPROVED

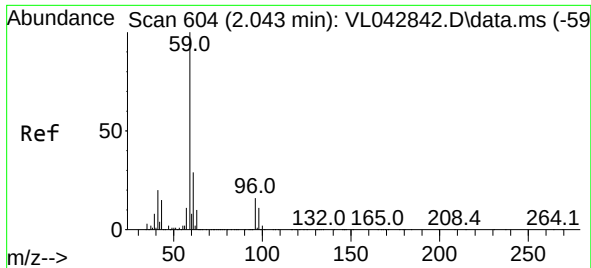
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#16  
1,3-Butadiene  
Concen: 9.250 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

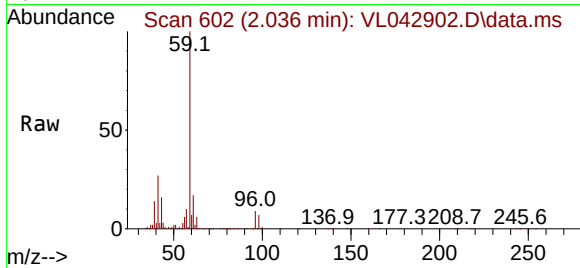
Tgt Ion: 39 Resp: 77632  
Ion Ratio Lower Upper  
39 100  
54 76.8 63.6 95.4





#17  
tert-Butyl alcohol  
Concen: 8.020 ppbv  
RT: 2.036 min Scan# 604  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

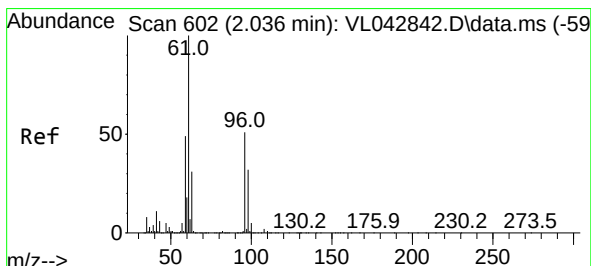
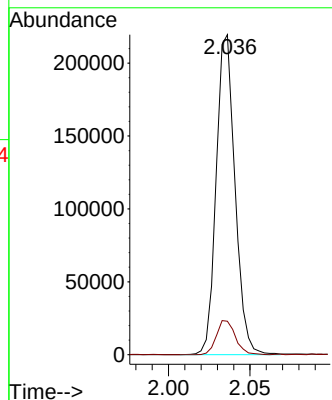
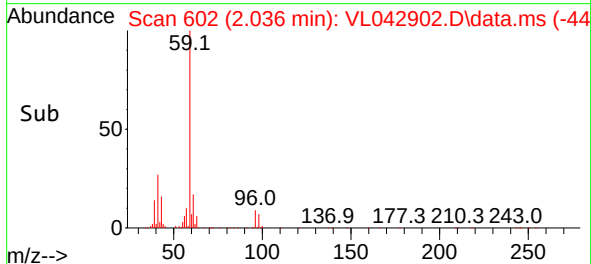
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



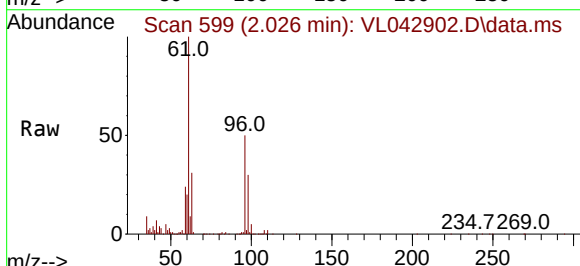
Tgt Ion: 59 Resp: 176050  
Ion Ratio Lower Upper  
59 100  
57 10.9 9.0 13.4

Manual Integrations  
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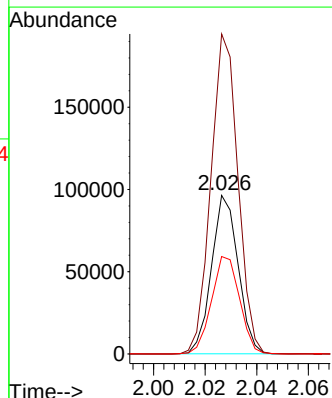
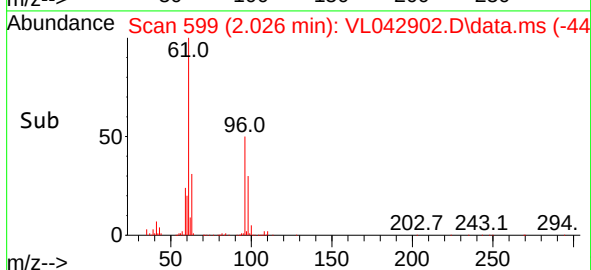
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

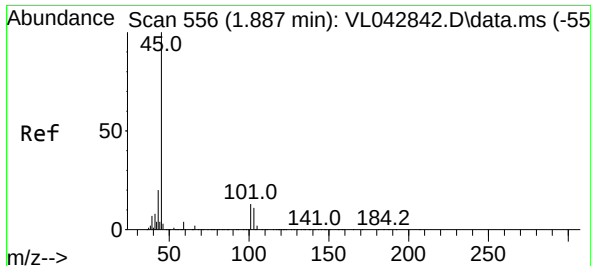


#18  
1,1-Dichloroethene  
Concen: 9.707 ppbv  
RT: 2.026 min Scan# 599  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



Tgt Ion: 96 Resp: 68830  
Ion Ratio Lower Upper  
96 100  
61 201.9 158.2 237.4  
98 61.5 50.6 76.0





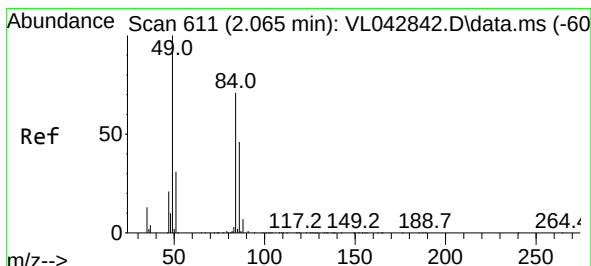
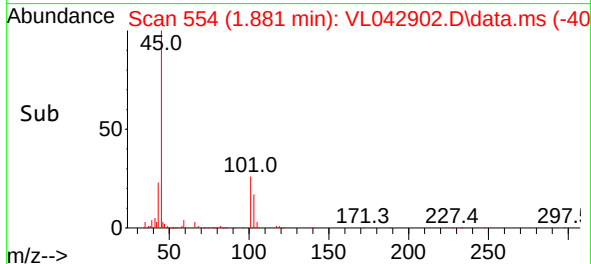
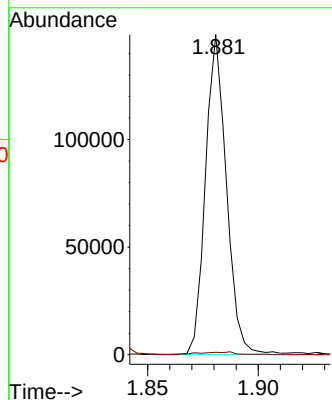
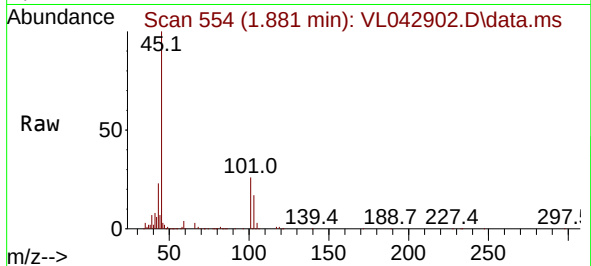
#19  
Isopropyl Alcohol  
Concen: 8.791 ppbv  
RT: 1.881 min Scan# 519  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion: 45 Resp: 97198  
Ion Ratio Lower Upper  
45 100  
58 45.5 32.7 49.1

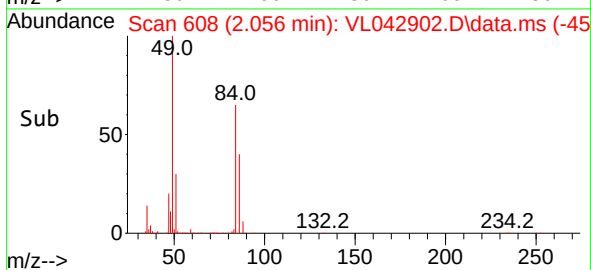
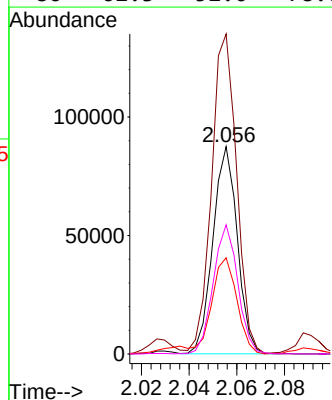
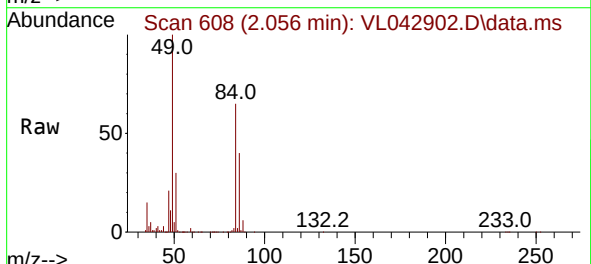
Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

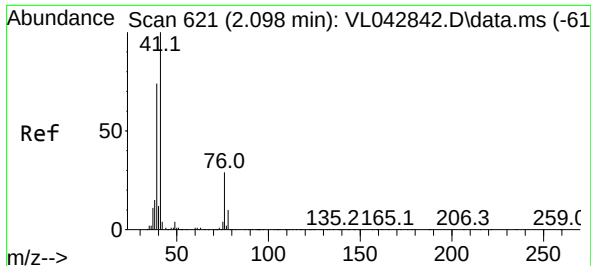


#20  
Methylene Chloride  
Concen: 8.038 ppbv  
RT: 2.056 min Scan# 608  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 84 Resp: 62334  
Ion Ratio Lower Upper  
84 100  
49 153.6 112.3 168.5  
51 46.1 36.0 54.0  
86 62.3 52.0 78.0

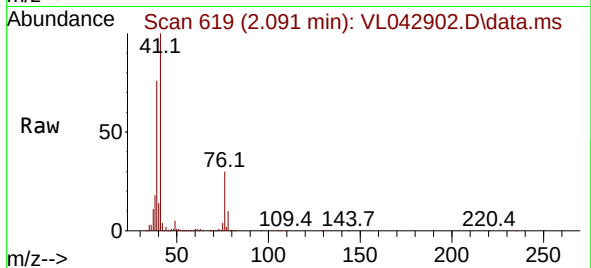






#21  
 Allyl Chloride  
 Concen: 9.573 ppbv  
 RT: 2.091 min Scan# 619  
 Delta R.T. 0.003 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

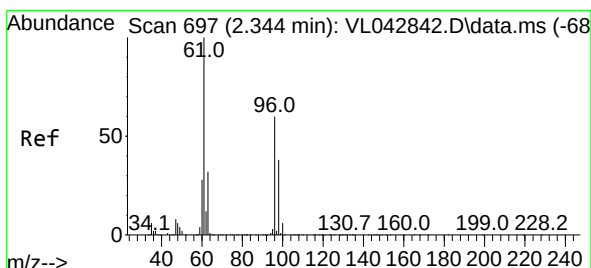
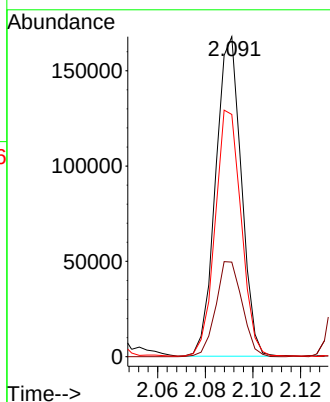
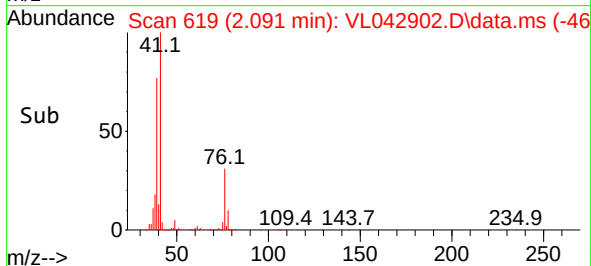
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01



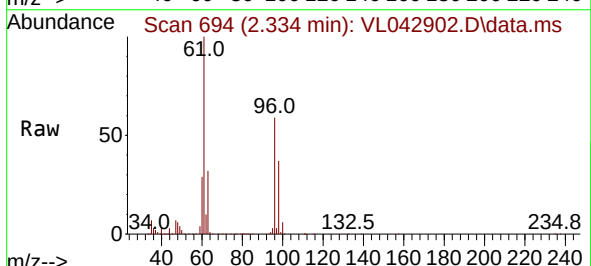
Tgt Ion: 41 Resp: 12519  
 Ion Ratio Lower Upper  
 41 100  
 76 30.6 23.9 35.9  
 39 78.4 57.8 86.6

Manual Integrations  
 APPROVED

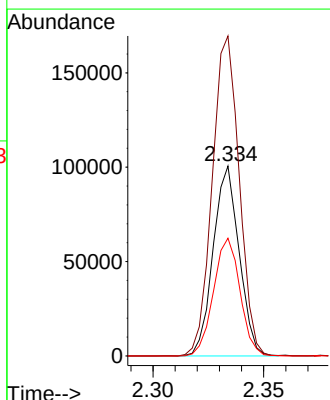
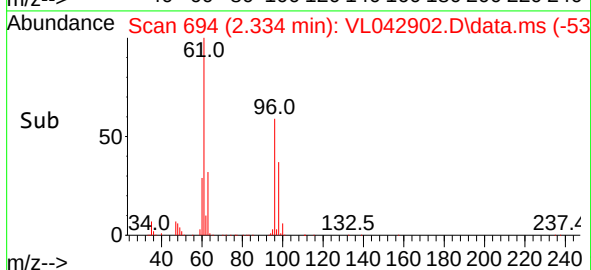
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

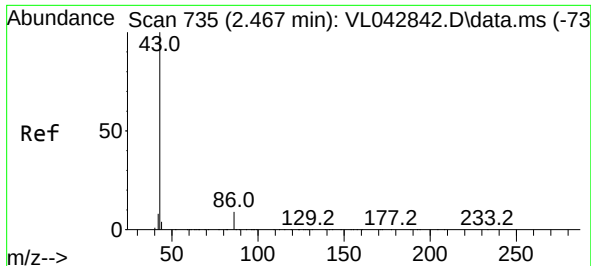


#22  
 trans-1,2-Dichloroethene  
 Concen: 10.005 ppbv  
 RT: 2.334 min Scan# 694  
 Delta R.T. 0.003 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35



Tgt Ion: 96 Resp: 82077  
 Ion Ratio Lower Upper  
 96 100  
 61 168.5 132.6 199.0  
 98 62.0 50.0 75.0





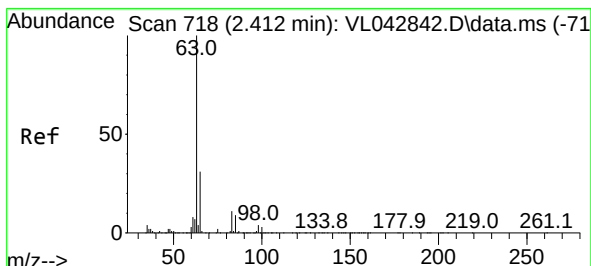
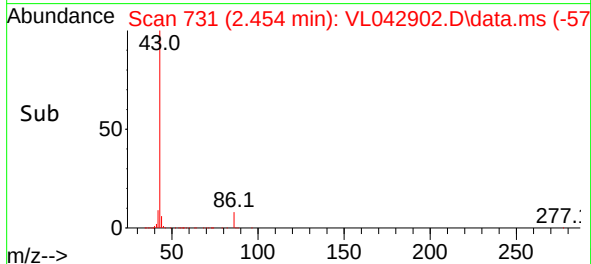
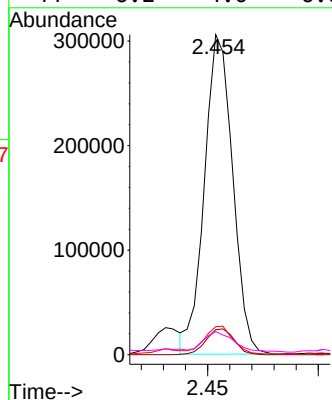
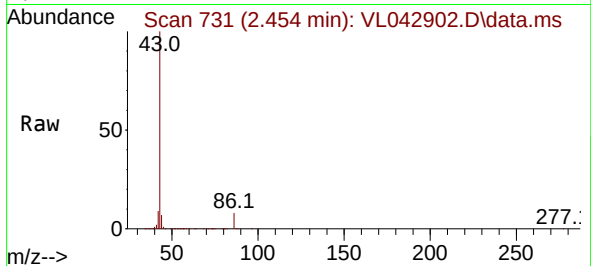
#23  
 Vinyl Acetate  
 Concen: 10.634 ppbv  
 RT: 2.454 min Scan# 715  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 270670 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 86 7.8      | 6.6 9.8      |
| 42 8.6      | 7.0 10.6     |
| 44 6.2      | 4.0 6.0      |

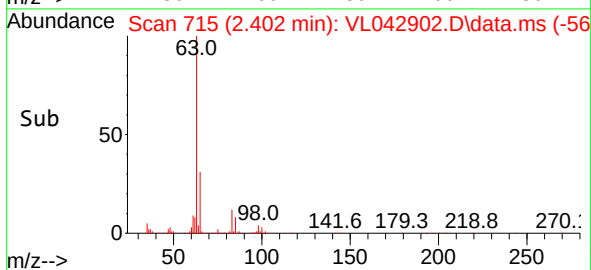
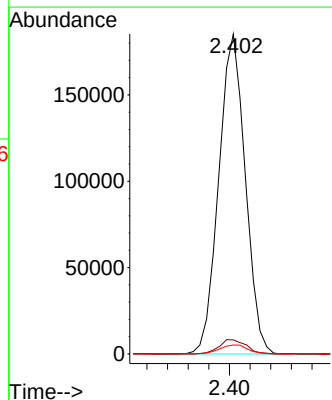
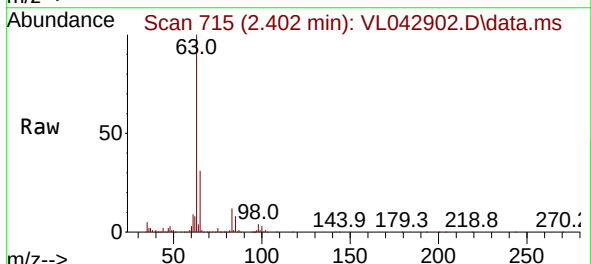
Manual Integrations  
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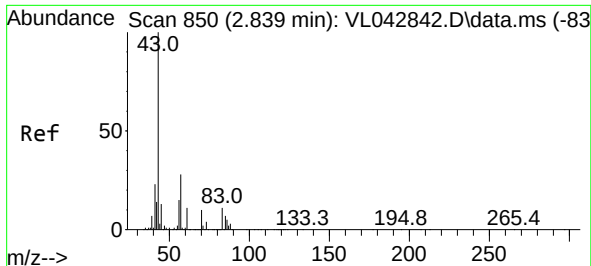
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025



#24  
 1,1-Dichloroethane  
 Concen: 10.066 ppbv  
 RT: 2.402 min Scan# 715  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

|             |              |
|-------------|--------------|
| Tgt Ion: 63 | Resp: 164910 |
| Ion Ratio   | Lower Upper  |
| 63 100      |              |
| 98 4.4      | 2.1 6.5      |
| 100 2.8     | 1.7 5.1      |





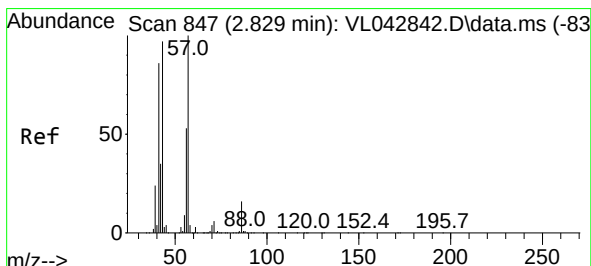
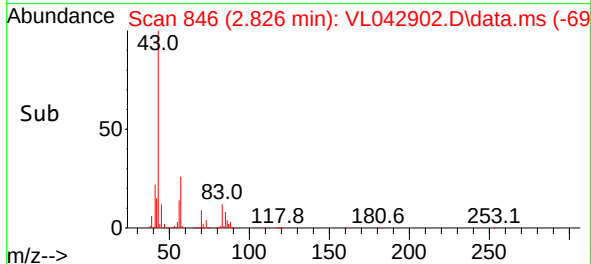
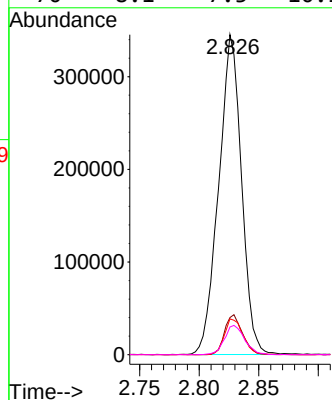
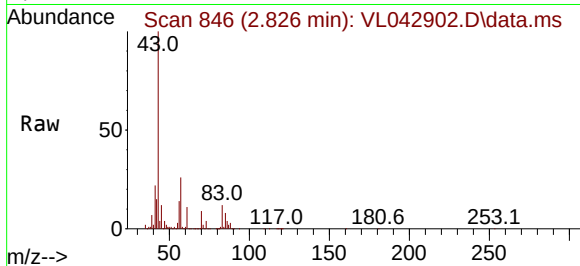
#25  
Ethyl Acetate  
Concen: 10.237 ppbv  
RT: 2.826 min Scan# 843  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 458640 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 45 10.0     | 8.1 12.1     |
| 61 9.2      | 7.4 11.2     |
| 70 8.1      | 7.3 10.9     |

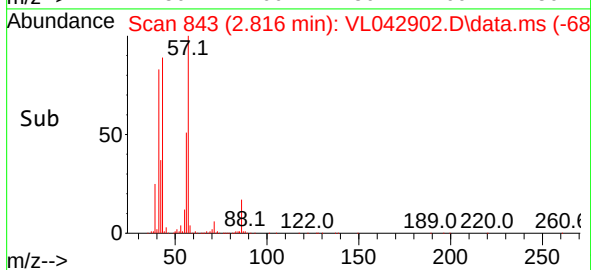
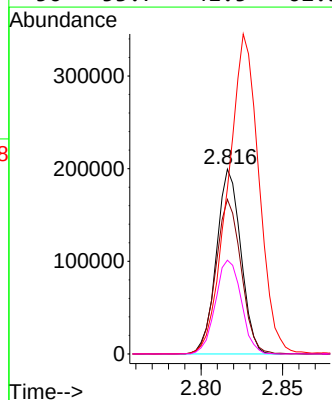
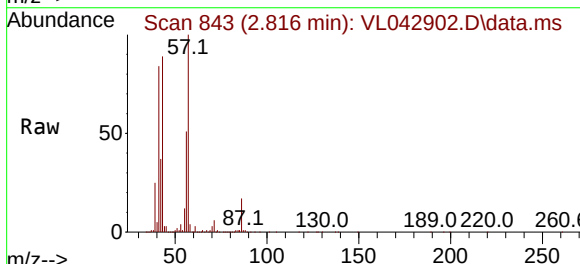
Manual Integrations  
APPROVED

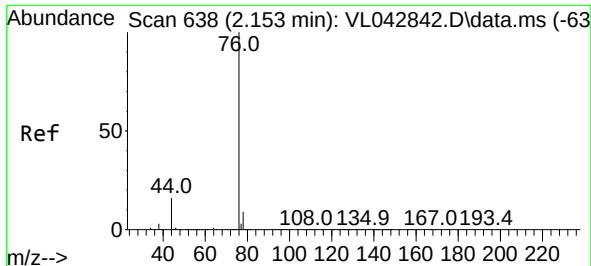
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#26  
Hexane  
Concen: 10.043 ppbv  
RT: 2.816 min Scan# 843  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

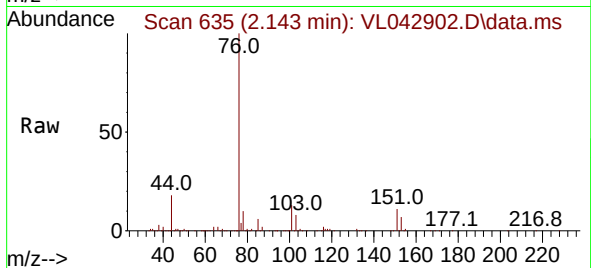
|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 207705 |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 87.5     | 68.6 103.0   |
| 43 221.9    | 168.5 252.7  |
| 56 53.7     | 41.5 62.3    |





#27  
Carbon Disulfide  
Concen: 10.273 ppbv  
RT: 2.143 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

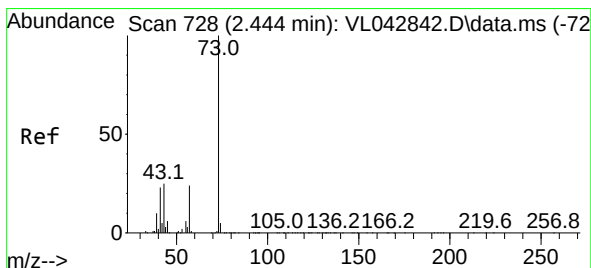
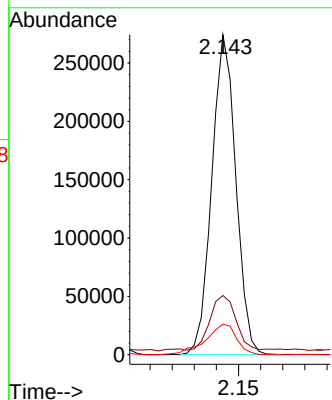
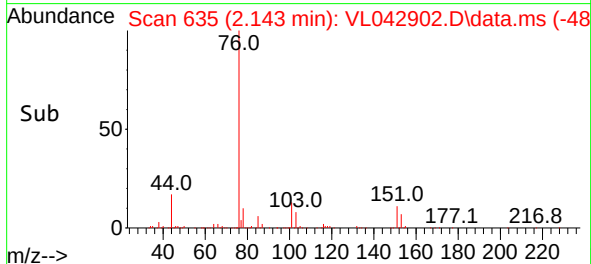
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



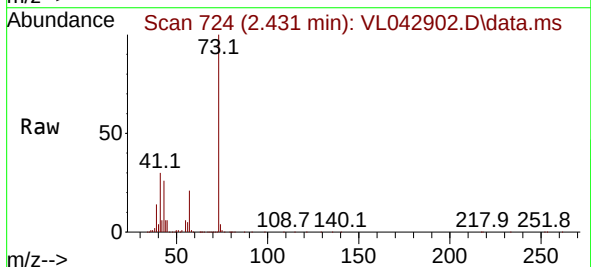
Tgt Ion: 76 Resp: 20675  
Ion Ratio Lower Upper  
76 100  
44 20.9 15.9 23.9  
78 12.3 9.5 14.3

Manual Integrations  
APPROVED

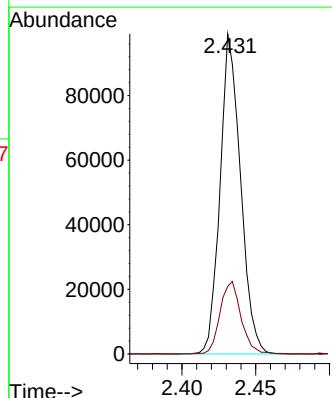
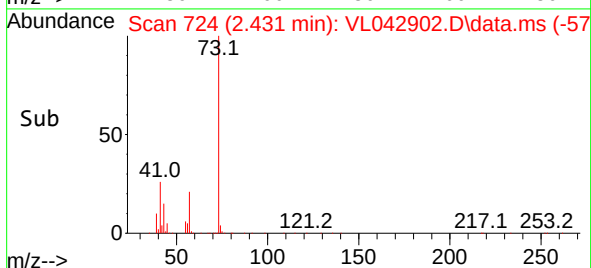
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

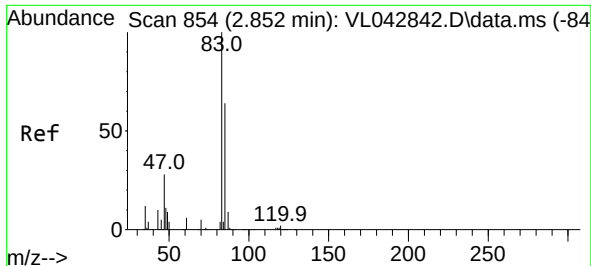


#28  
Methyl tert-Butyl Ether  
Concen: 9.082 ppbv  
RT: 2.431 min Scan# 724  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



Tgt Ion: 73 Resp: 95768  
Ion Ratio Lower Upper  
73 100  
57 23.2 21.6 32.4





#29

Chloroform

Concen: 10.562 ppbv

RT: 2.839 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_L

ClientSampleId :

VL0908ABS01

Tgt Ion: 83 Resp: 31185

Ion Ratio Lower Upper

83 100

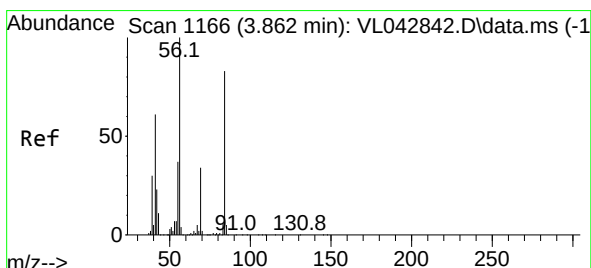
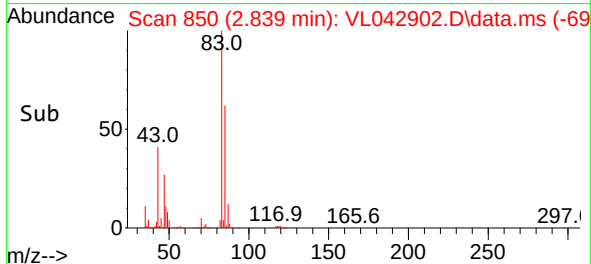
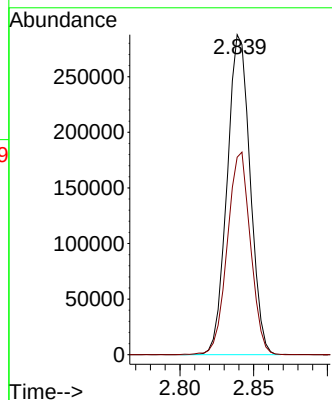
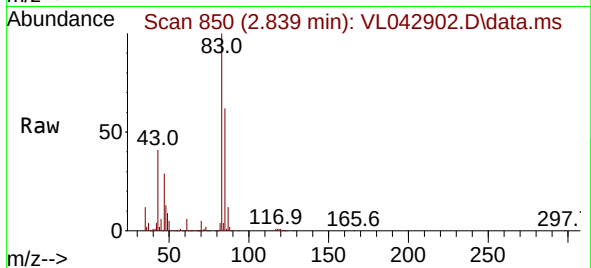
85 61.7 51.1 76.7

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#30

Cyclohexane

Concen: 9.340 ppbv

RT: 3.845 min Scan# 1161

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

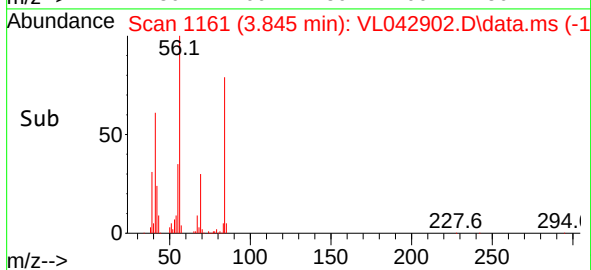
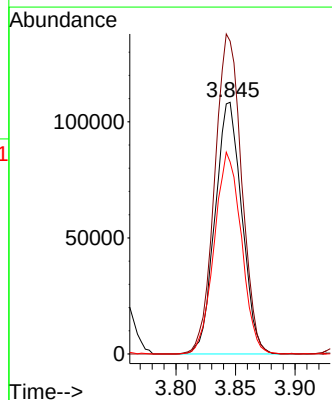
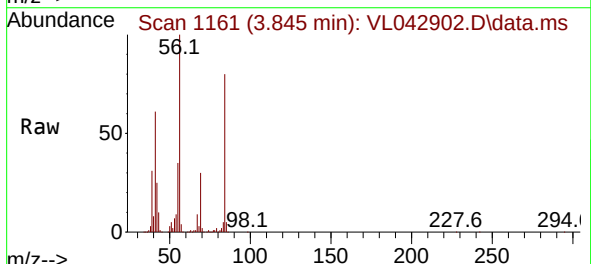
Tgt Ion: 84 Resp: 169353

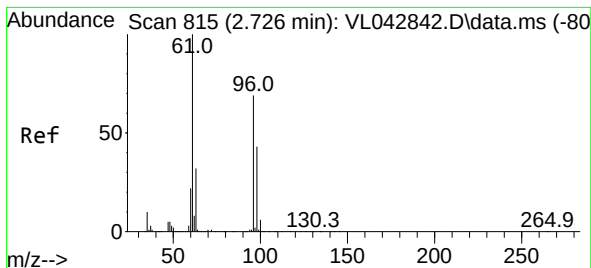
Ion Ratio Lower Upper

84 100

56 127.6 98.8 148.2

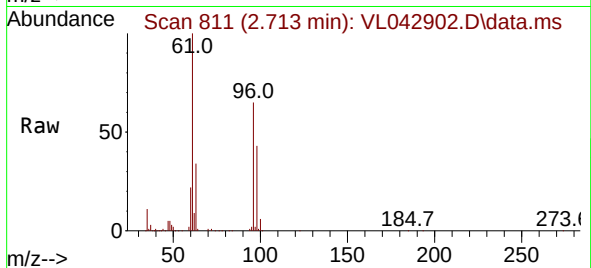
41 81.1 61.3 91.9





#31  
 cis-1,2-Dichloroethene  
 Concen: 9.796 ppbv  
 RT: 2.713 min Scan# 815  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

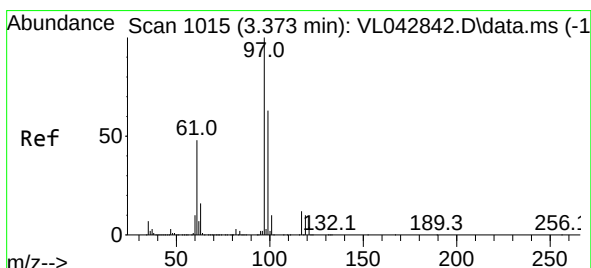
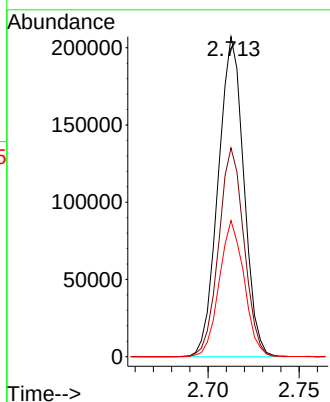
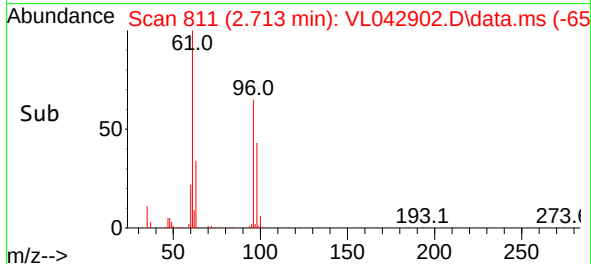
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01



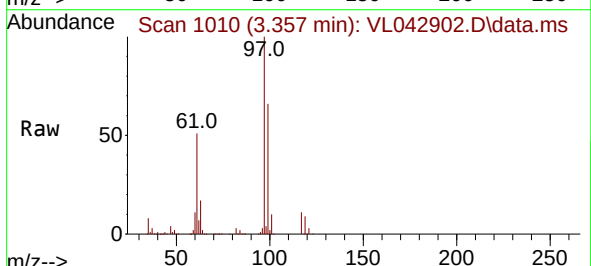
Tgt Ion: 61 Resp: 202349  
 Ion Ratio Lower Upper  
 61 100  
 96 65.2 55.0 82.6  
 98 42.5 34.3 51.5

Manual Integrations  
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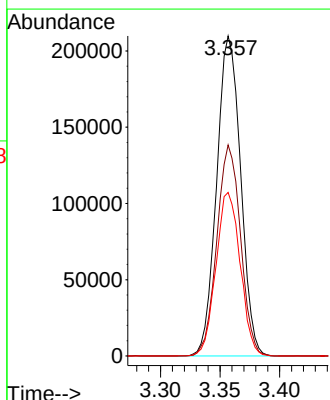
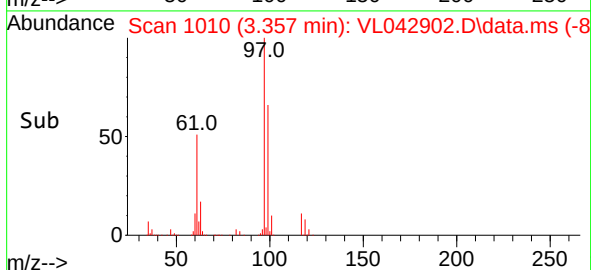
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

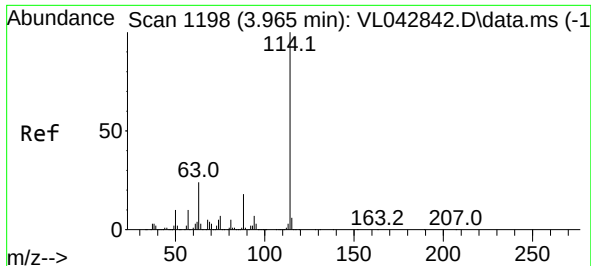


#32  
 1,1,1-Trichloroethane  
 Concen: 9.409 ppbv  
 RT: 3.357 min Scan# 1010  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35



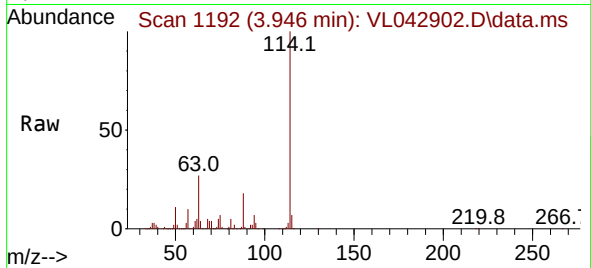
Tgt Ion: 97 Resp: 293618  
 Ion Ratio Lower Upper  
 97 100  
 99 65.0 51.0 76.6  
 61 51.7 38.0 57.0





#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.946 min Scan# 1198  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

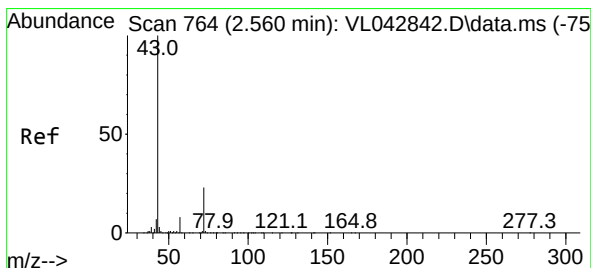
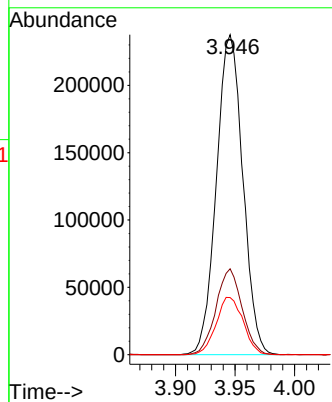
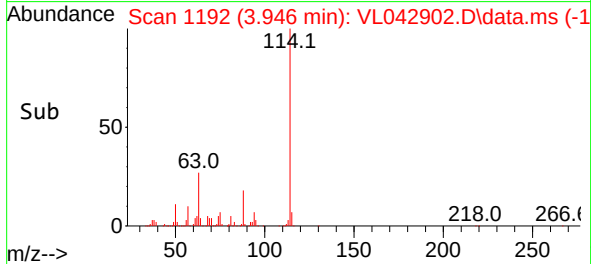
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



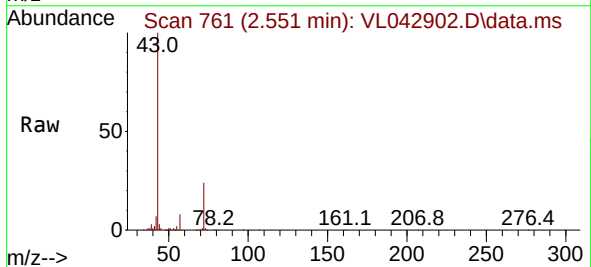
Tgt Ion:114 Resp: 36585  
Ion Ratio Lower Upper  
114 100  
63 26.5 19.7 29.5  
88 18.3 14.4 21.6

Manual Integrations  
APPROVED

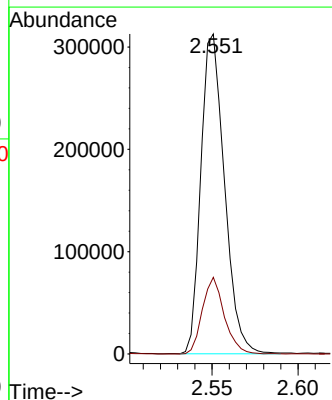
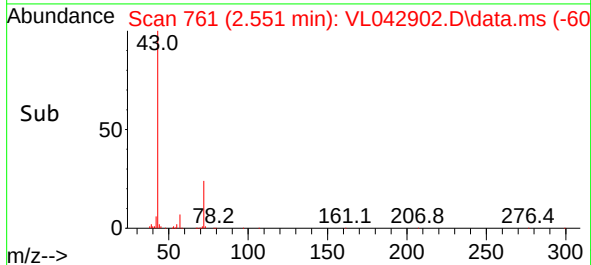
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

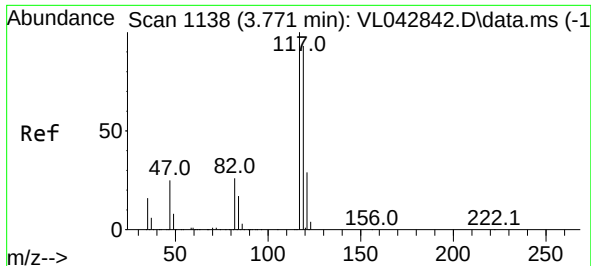


#34  
2-Butanone  
Concen: 12.066 ppbv  
RT: 2.551 min Scan# 761  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



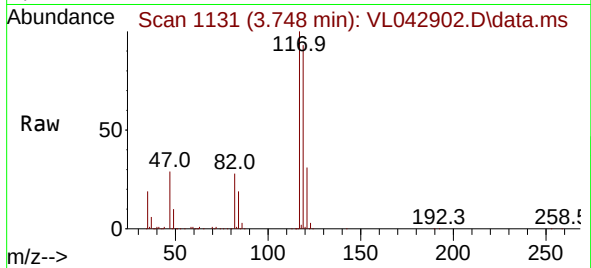
Tgt Ion: 43 Resp: 298071  
Ion Ratio Lower Upper  
43 100  
72 22.3 18.6 28.0





#35  
Carbon Tetrachloride  
Concen: 11.779 ppbv  
RT: 3.748 min Scan# 1138  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

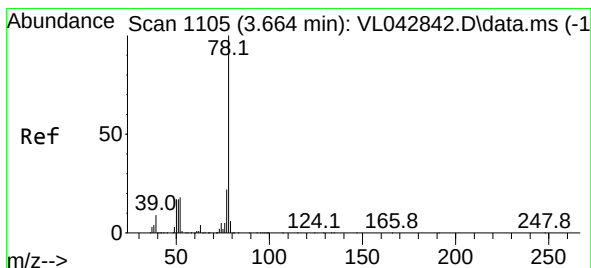
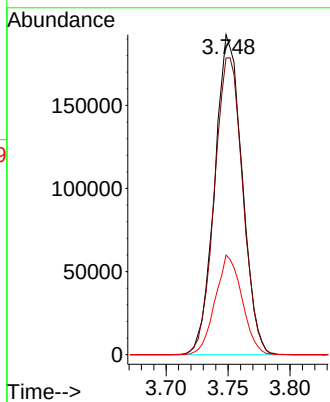
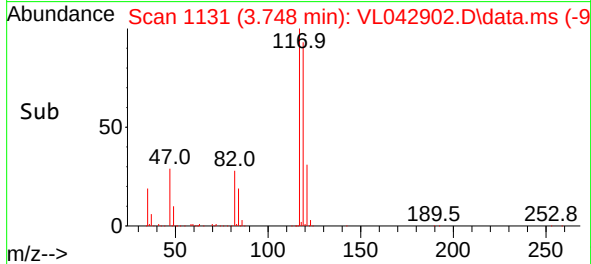
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



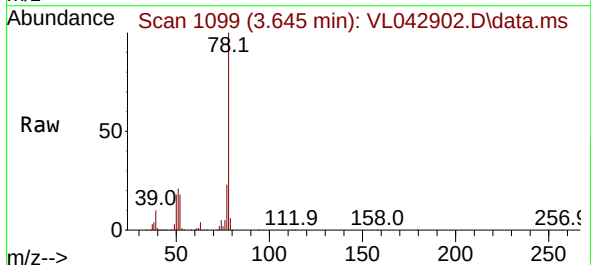
Tgt Ion:117 Resp: 297085  
Ion Ratio Lower Upper  
117 100  
119 92.6 74.7 112.1  
121 31.2 23.2 34.8

Manual Integrations  
APPROVED

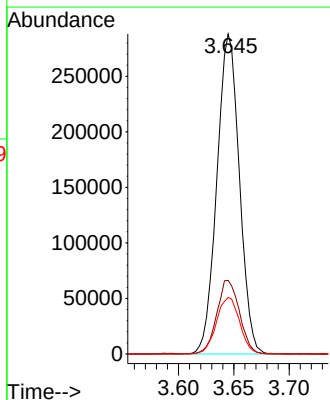
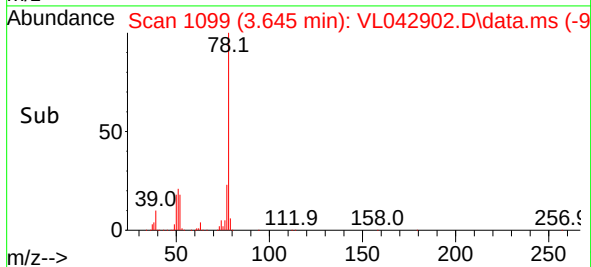
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



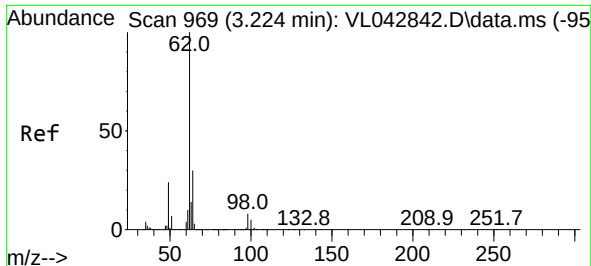
#36  
Benzene  
Concen: 11.625 ppbv  
RT: 3.645 min Scan# 1099  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



Tgt Ion: 78 Resp: 407263  
Ion Ratio Lower Upper  
78 100  
77 23.0 17.7 26.5  
50 17.7 13.9 20.9

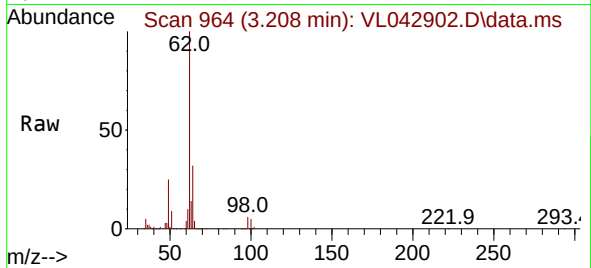






#37  
1,2-Dichloroethane  
Concen: 12.720 ppbv  
RT: 3.208 min Scan# 90  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

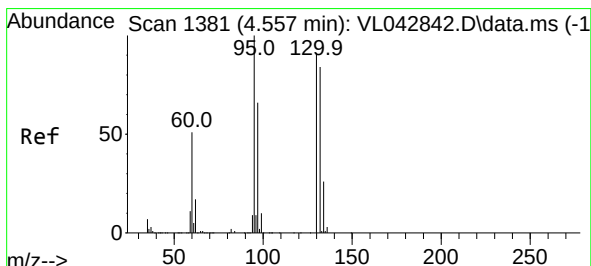
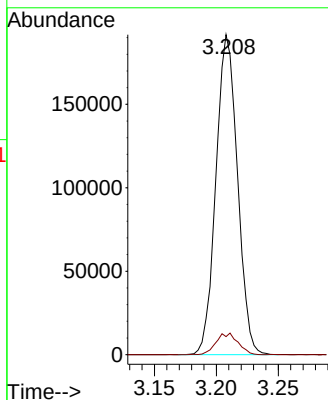
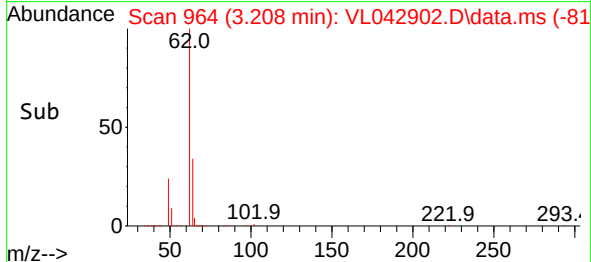
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



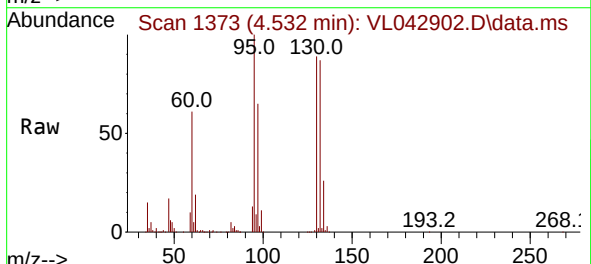
Tgt Ion: 62 Resp: 232809  
Ion Ratio Lower Upper  
62 100  
98 6.9 5.9 8.9

Manual Integrations  
APPROVED

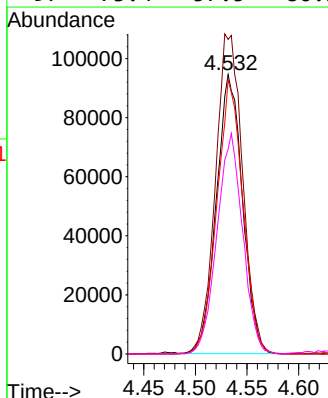
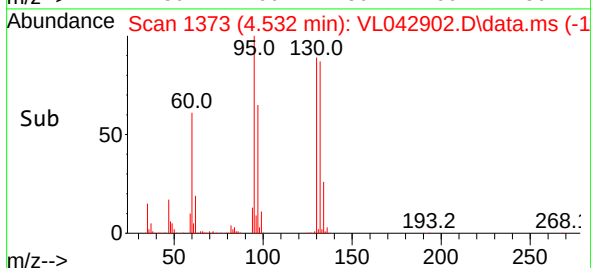
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

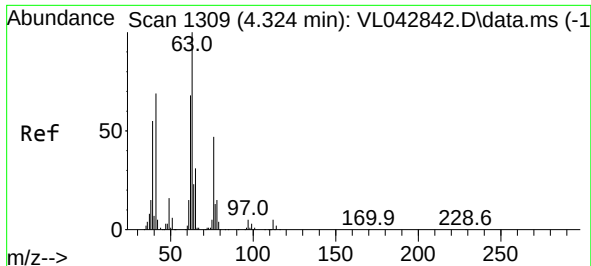


#38  
Trichloroethene  
Concen: 10.408 ppbv  
RT: 4.532 min Scan# 1373  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



Tgt Ion:130 Resp: 166529  
Ion Ratio Lower Upper  
130 100  
95 112.8 87.6 131.4  
132 98.3 73.8 110.8  
97 73.4 57.5 86.3





#39

1,2-Dichloropropane

Concen: 11.961 ppbv

RT: 4.302 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_L

ClientSampleId :

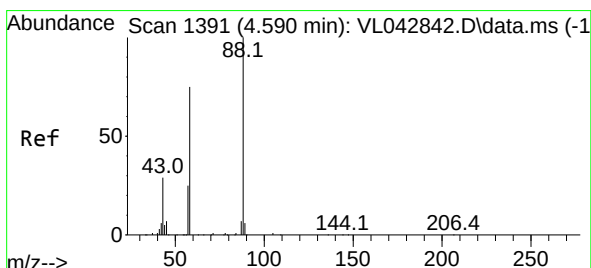
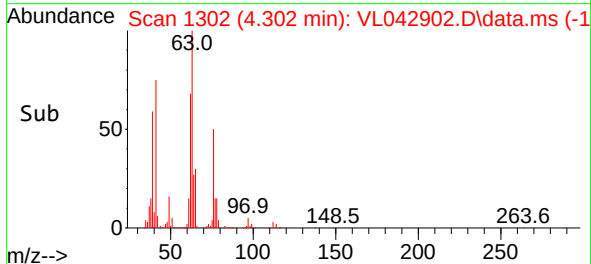
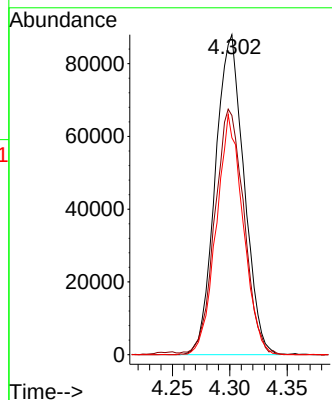
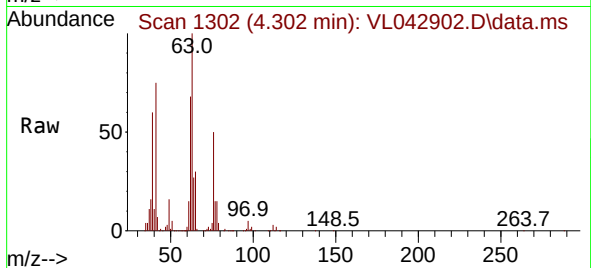
VL0908ABS01

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 15304 |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 41 74.6     | 55.0 82.4   |
| 62 67.7     | 54.4 81.6   |

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#40

1,4-Dioxane

Concen: 10.138 ppbv

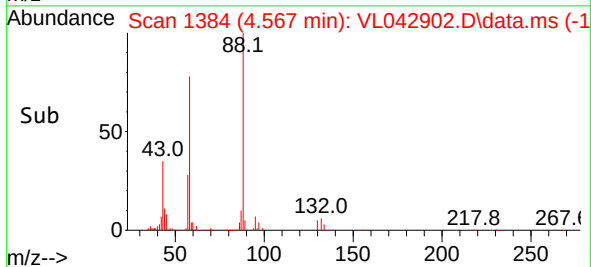
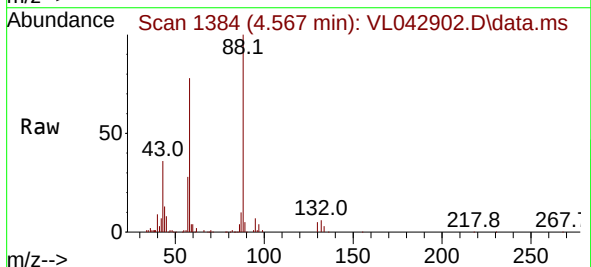
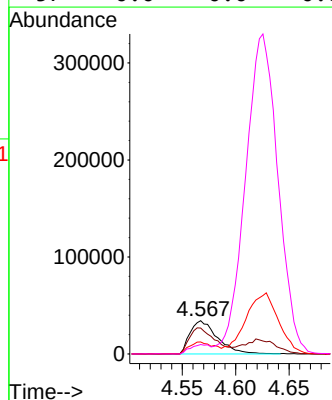
RT: 4.567 min Scan# 1384

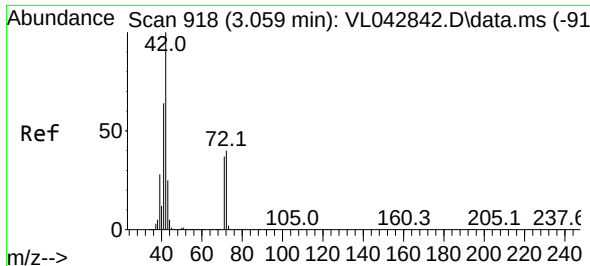
Delta R.T. 0.006 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

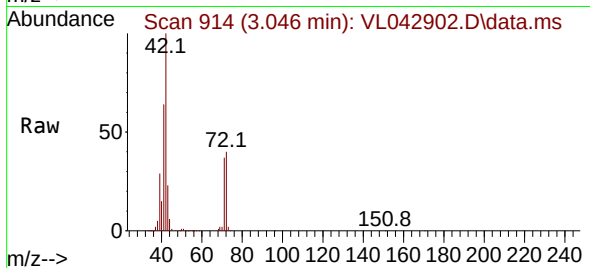
|             |             |
|-------------|-------------|
| Tgt Ion: 88 | Resp: 61682 |
| Ion Ratio   | Lower Upper |
| 88 100      |             |
| 58 75.9     | 53.8 80.6   |
| 43 36.0     | 22.8 34.2#  |
| 57 0.0      | 0.0 0.0     |





#41  
Tetrahydrofuran  
Concen: 11.927 ppbv  
RT: 3.046 min Scan# 918  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

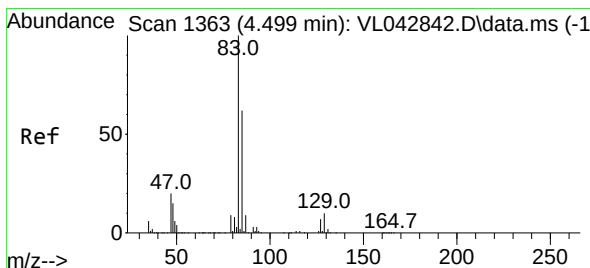
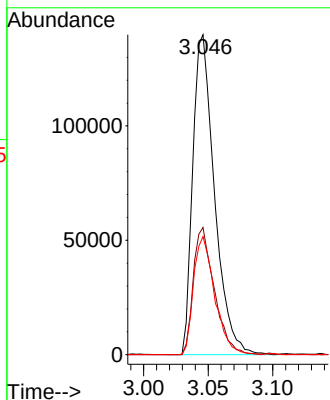
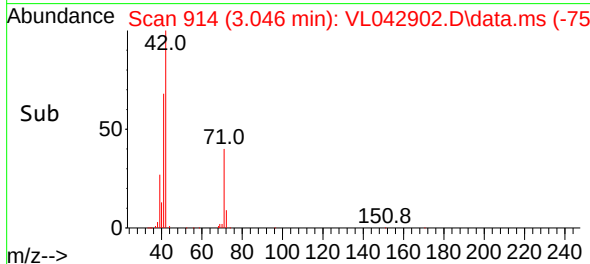
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



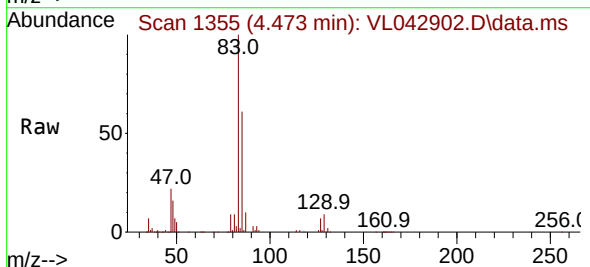
Tgt Ion: 42 Resp: 164268  
Ion Ratio Lower Upper  
42 100  
72 38.6 32.6 48.8  
71 36.0 30.0 45.0

Manual Integrations  
APPROVED

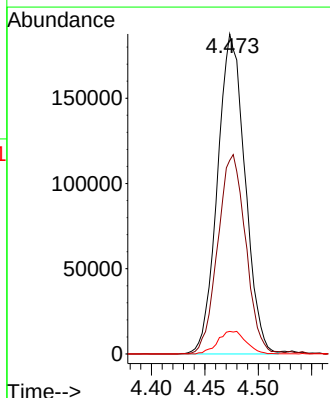
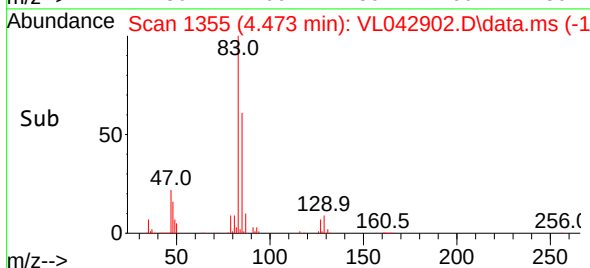
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

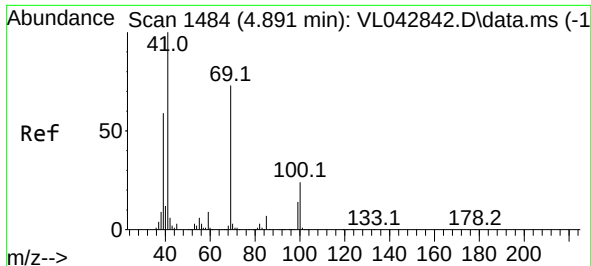


#42  
Bromodichloromethane  
Concen: 12.351 ppbv  
RT: 4.473 min Scan# 1355  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



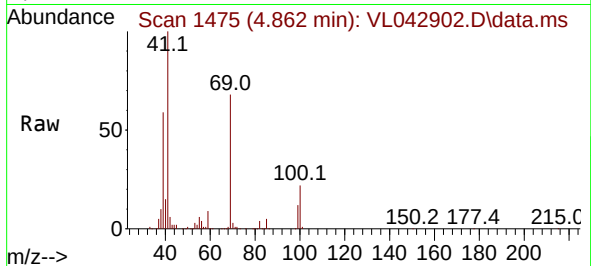
Tgt Ion: 83 Resp: 336858  
Ion Ratio Lower Upper  
83 100  
85 60.5 49.8 74.8  
127 7.0 5.8 8.6





#43  
Methyl Methacrylate  
Concen: 10.979 ppbv  
RT: 4.862 min Scan# 1484  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

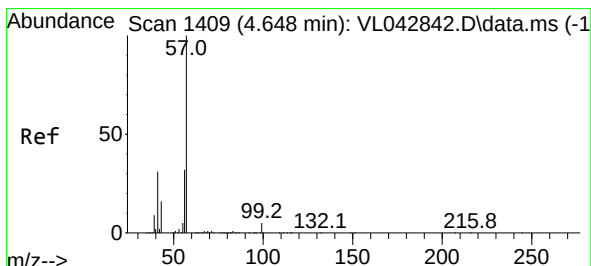
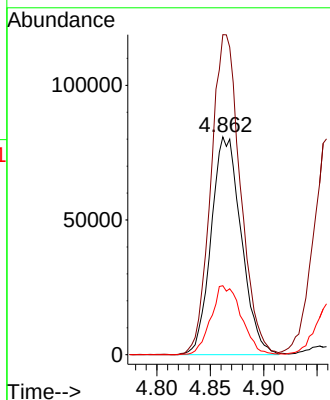
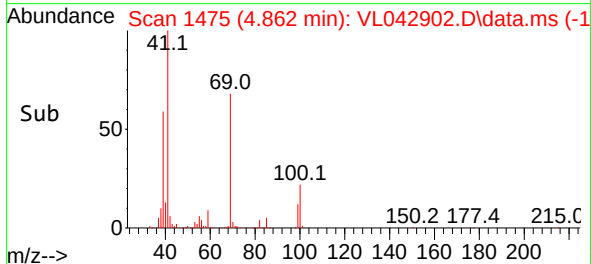
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01



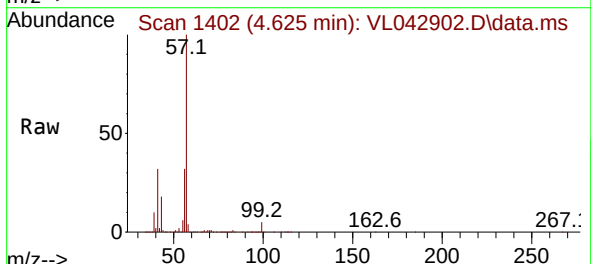
Tgt Ion: 69 Resp: 15845  
Ion Ratio Lower Upper  
69 100  
41 143.9 114.6 172.0  
100 32.1 30.2 45.4

Manual Integrations  
APPROVED

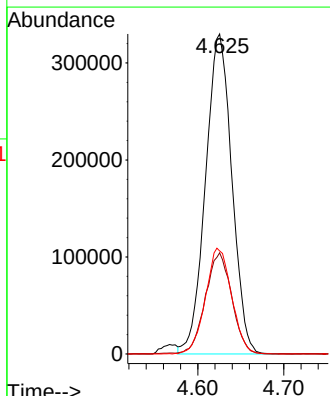
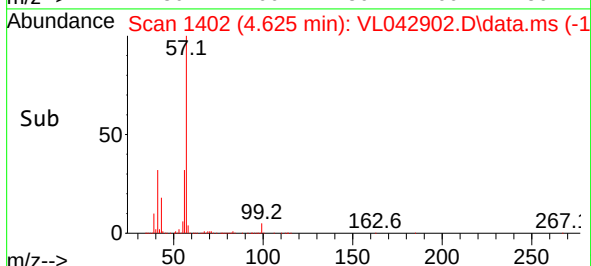
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

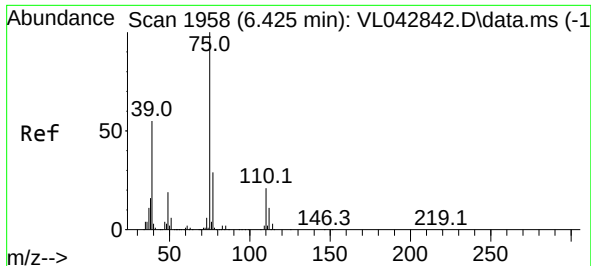


#44  
2,2,4-Trimethylpentane  
Concen: 11.797 ppbv  
RT: 4.625 min Scan# 1402  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



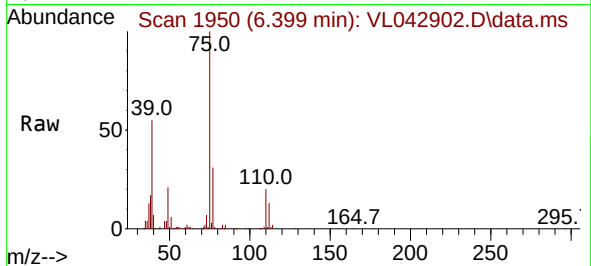
Tgt Ion: 57 Resp: 701486  
Ion Ratio Lower Upper  
57 100  
41 31.8 24.8 37.2  
56 32.7 25.5 38.3





#45  
 t-1,3-Dichloropropene  
 Concen: 10.403 ppbv  
 RT: 6.399 min Scan# 16943  
 Delta R.T. 0.006 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

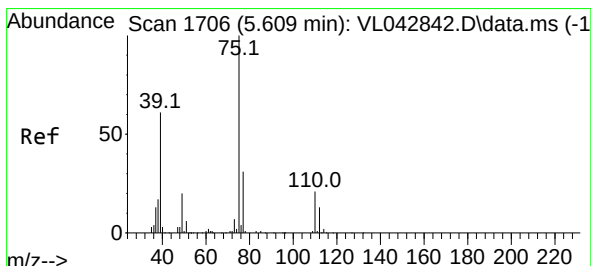
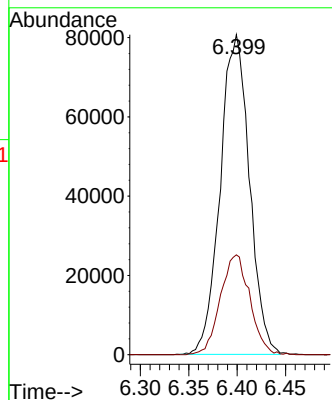
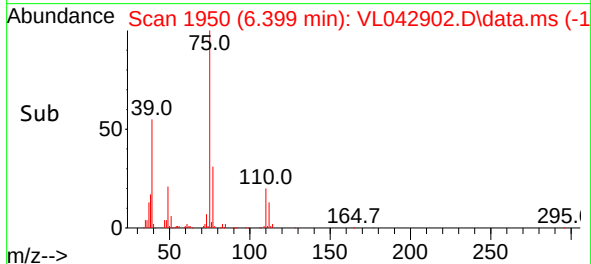
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01



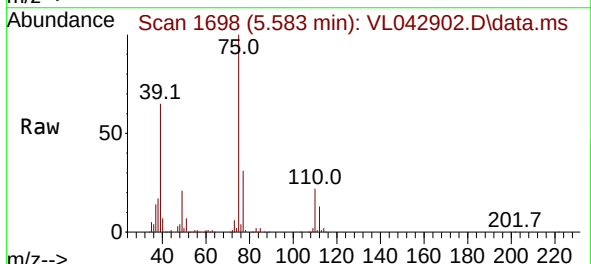
Tgt Ion: 75 Resp: 16943  
 Ion Ratio Lower Upper  
 75 100  
 77 31.2 23.8 35.6

Manual Integrations  
 APPROVED

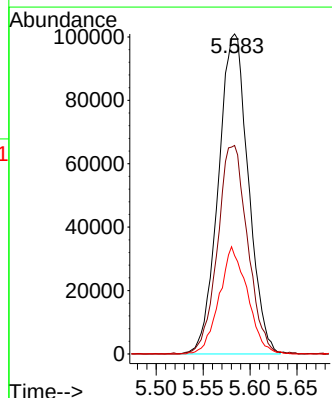
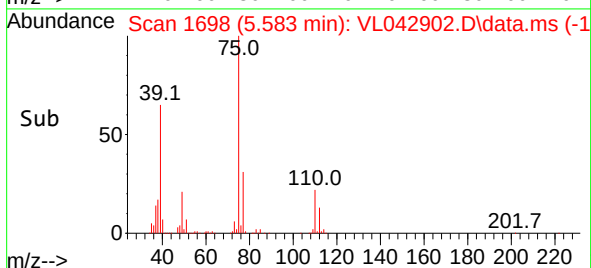
Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

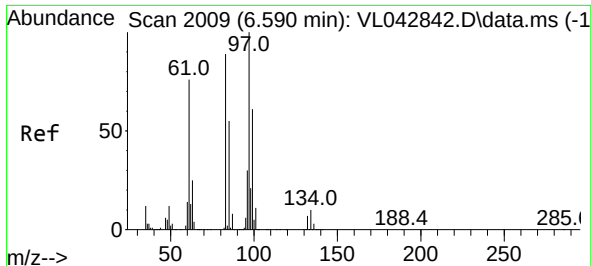


#46  
 cis-1,3-Dichloropropene  
 Concen: 11.031 ppbv  
 RT: 5.583 min Scan# 1698  
 Delta R.T. 0.003 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35



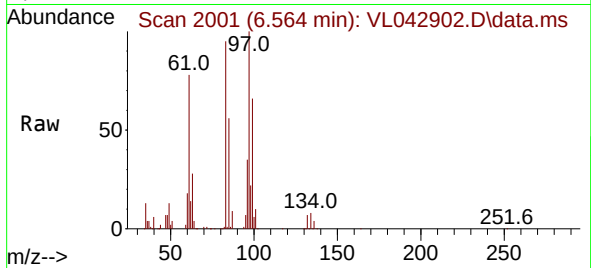
Tgt Ion: 75 Resp: 223871  
 Ion Ratio Lower Upper  
 75 100  
 39 65.0 48.9 73.3  
 77 30.8 24.9 37.3





#47  
1,1,2-Trichloroethane  
Concen: 11.541 ppbv  
RT: 6.564 min Scan# 2009  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

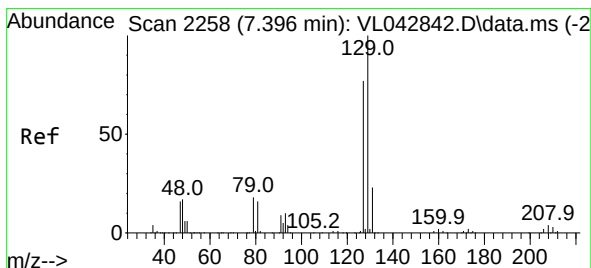
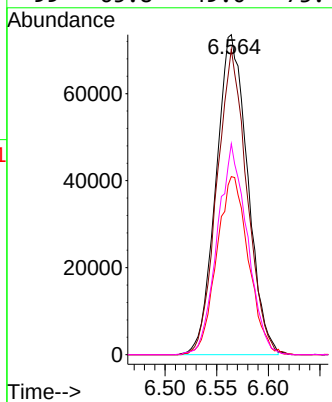
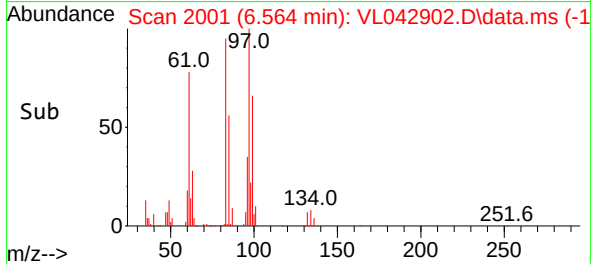
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



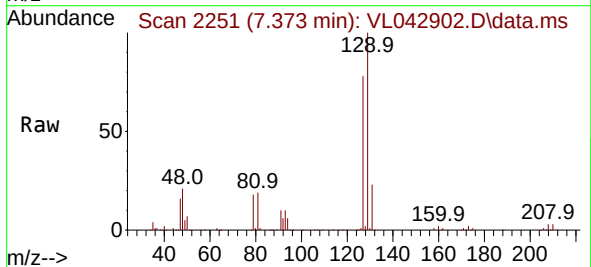
Tgt Ion: 97 Resp: 156460  
Ion Ratio Lower Upper  
97 100  
83 95.5 71.0 106.4  
85 55.6 43.6 65.4  
99 65.8 49.0 73.4

Manual Integrations  
APPROVED

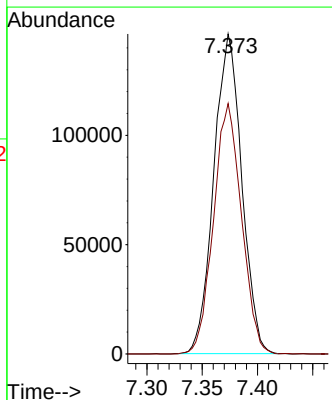
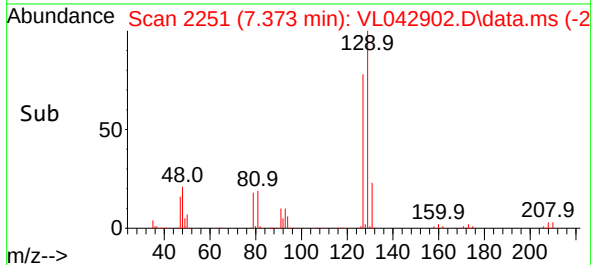
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

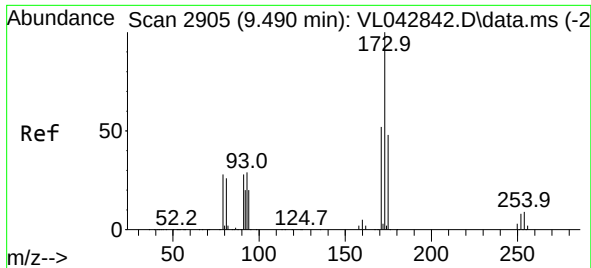


#48  
Dibromochloromethane  
Concen: 11.712 ppbv  
RT: 7.373 min Scan# 2251  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



Tgt Ion:129 Resp: 256923  
Ion Ratio Lower Upper  
129 100  
127 78.3 39.4 118.2





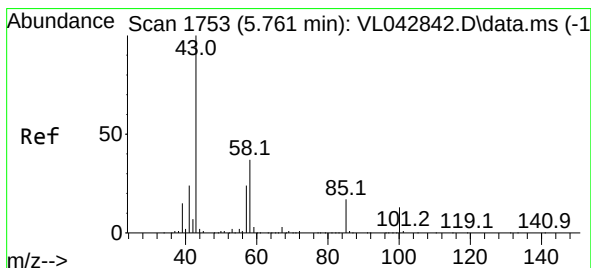
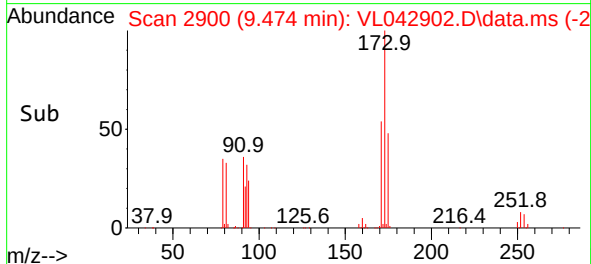
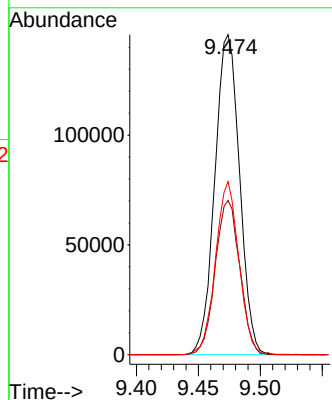
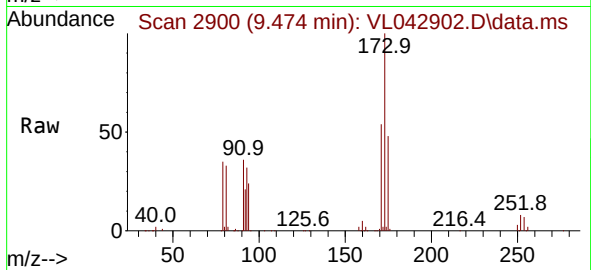
#49  
Bromoform  
Concen: 11.222 ppbv  
RT: 9.474 min Scan# 2905  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion:173 Resp: 203018  
Ion Ratio Lower Upper  
173 100  
175 47.9 39.2 58.8  
171 51.1 41.3 61.9

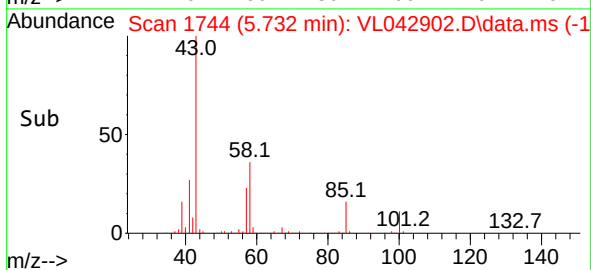
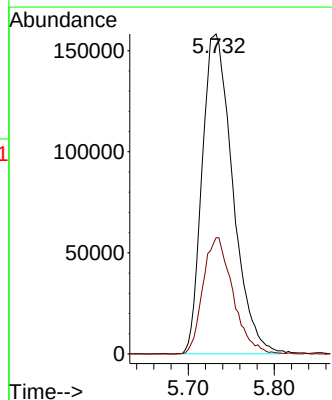
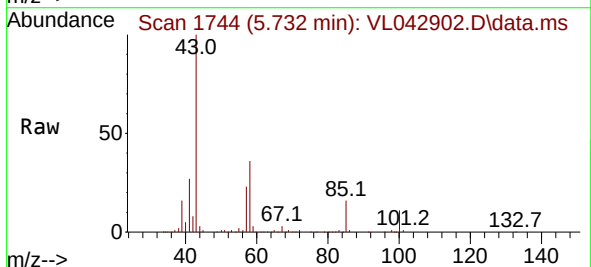
Manual Integrations  
APPROVED

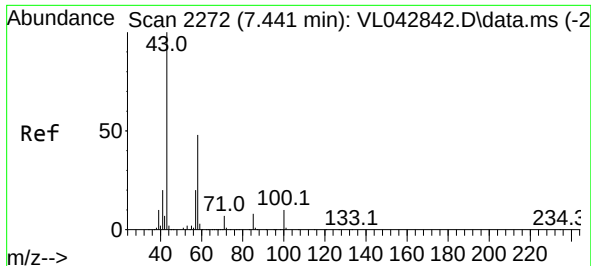
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#50  
4-Methyl-2-Pentanone  
Concen: 11.688 ppbv  
RT: 5.732 min Scan# 1744  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 390291  
Ion Ratio Lower Upper  
43 100  
58 35.7 29.8 44.8





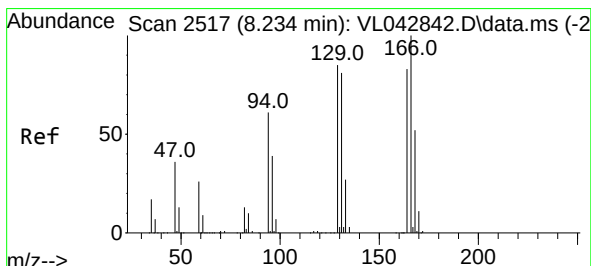
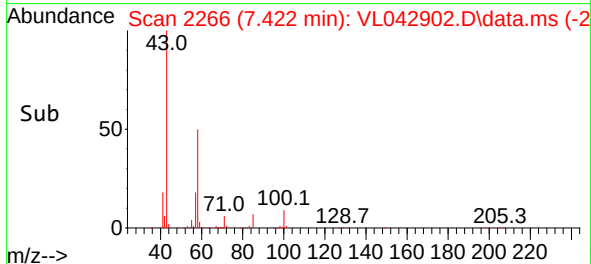
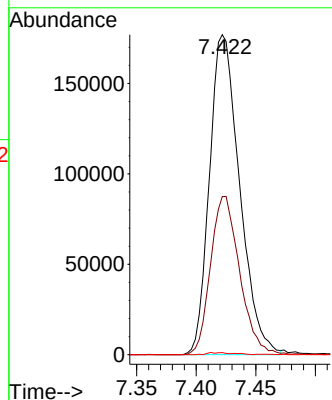
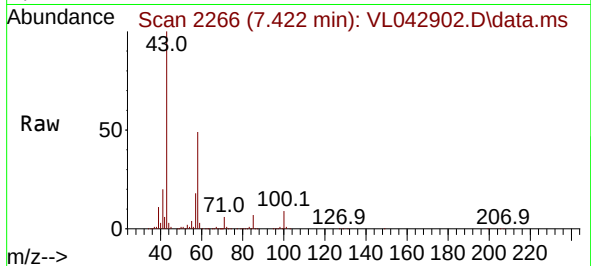
#51  
2-Hexanone  
Concen: 11.858 ppbv  
RT: 7.422 min Scan# 21158  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion: 43 Resp: 31158  
Ion Ratio Lower Upper  
43 100  
58 47.8 41.0 61.6  
98 0.6 0.1 0.1

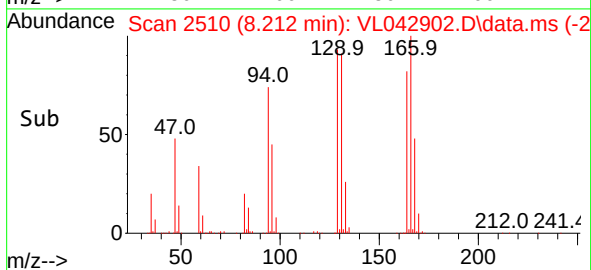
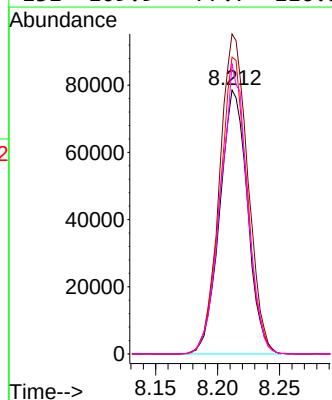
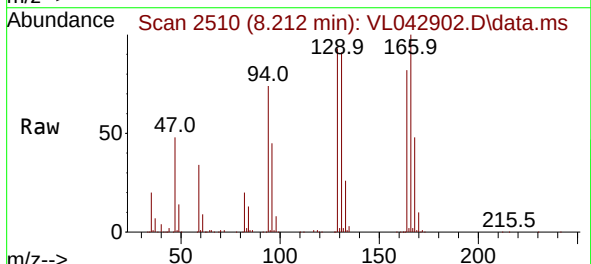
Manual Integrations  
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Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

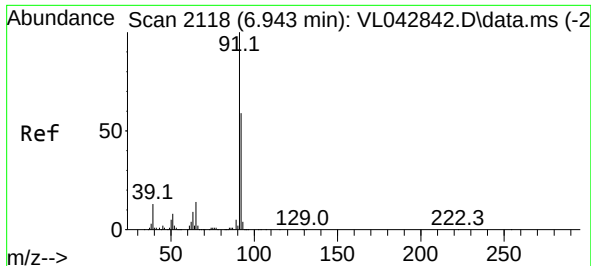


#52  
Tetrachloroethene  
Concen: 9.644 ppbv  
RT: 8.212 min Scan# 2510  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:164 Resp: 122229  
Ion Ratio Lower Upper  
164 100  
166 121.3 96.5 144.7  
129 112.5 81.8 122.6  
131 109.9 77.7 116.5







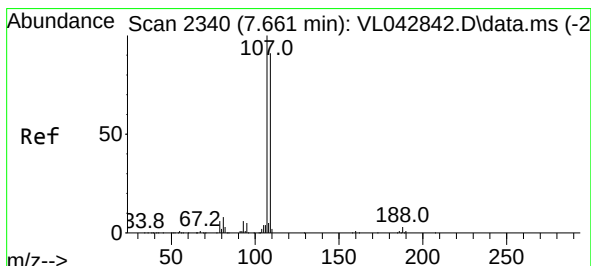
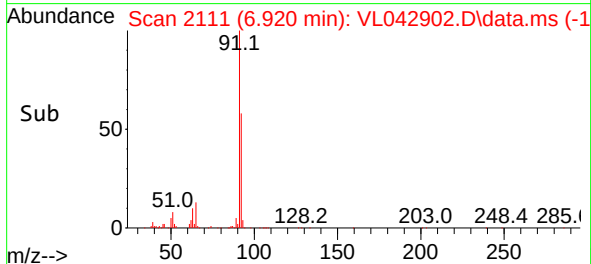
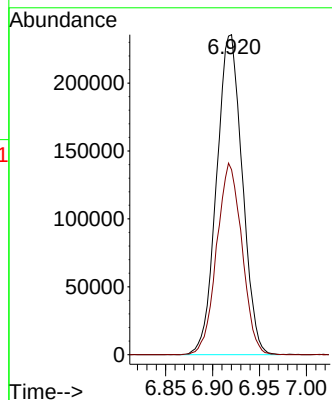
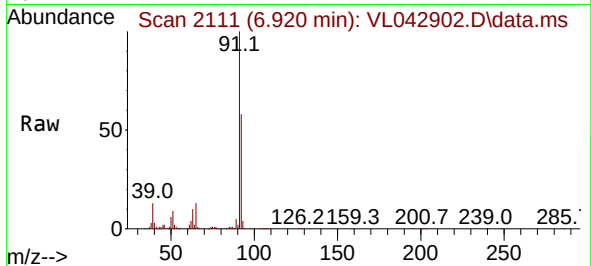
#53  
Toluene  
Concen: 10.752 ppbv  
RT: 6.920 min Scan# 2111  
Delta R.T. 0.006 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion: 91 Resp: 447844  
Ion Ratio Lower Upper  
91 100  
92 58.9 47.8 71.6

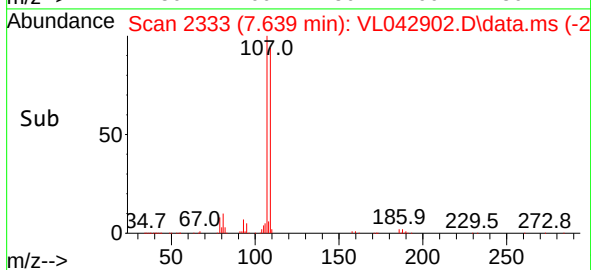
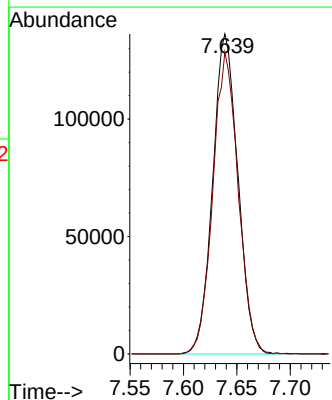
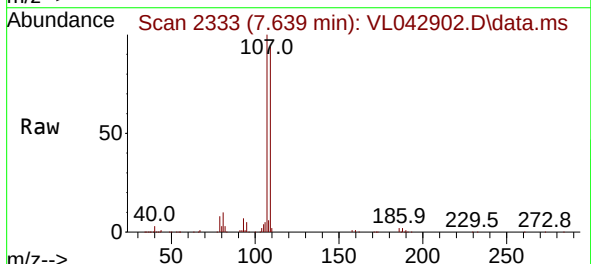
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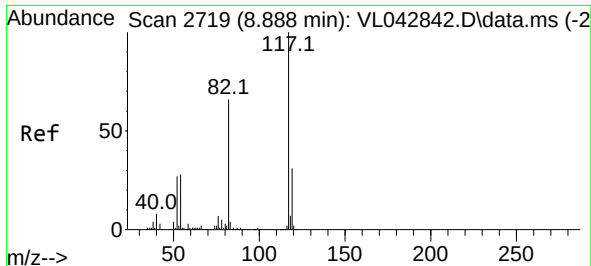
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#54  
1,2-Dibromoethane  
Concen: 11.277 ppbv  
RT: 7.639 min Scan# 2333  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:107 Resp: 223417  
Ion Ratio Lower Upper  
107 100  
109 94.3 72.5 108.7





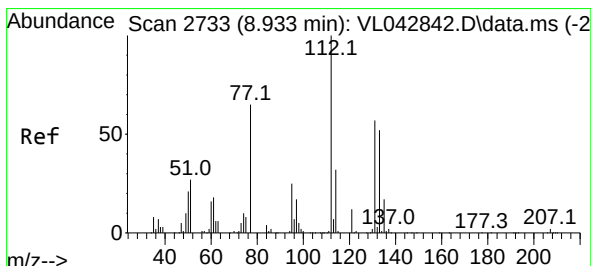
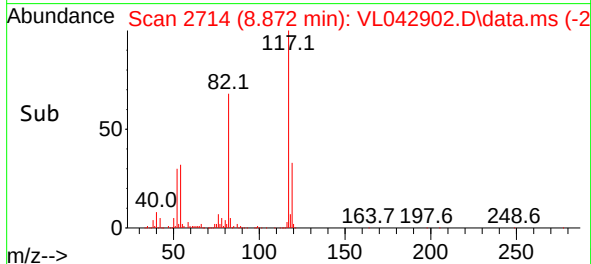
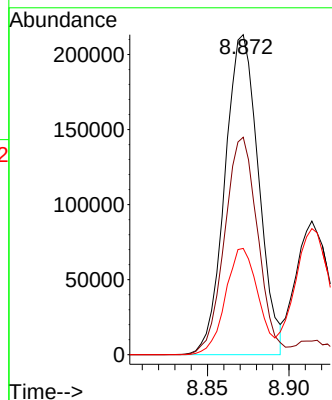
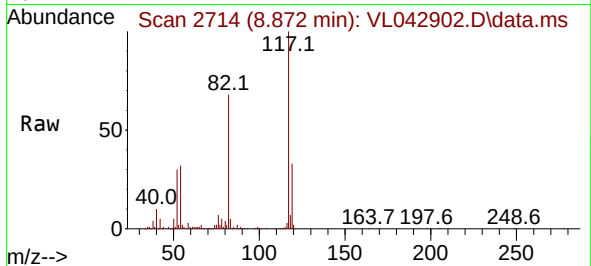
#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.872 min Scan# 2714  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion:117 Resp: 30638  
Ion Ratio Lower Upper  
117 100  
82 71.5 54.6 81.8  
119 32.3 25.9 38.9

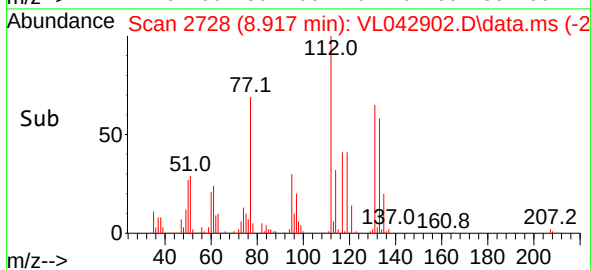
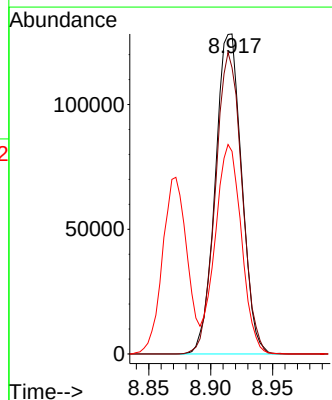
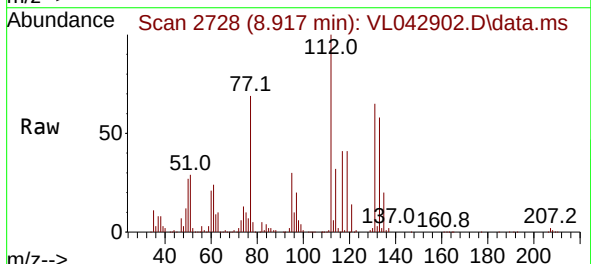
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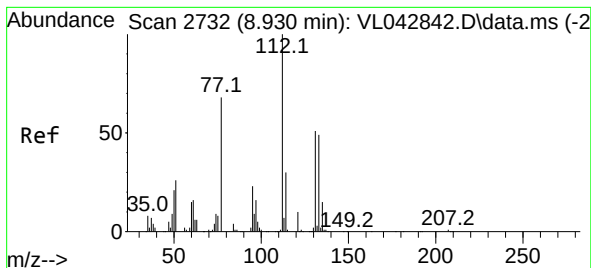
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#56  
1,1,1,2-Tetrachloroethane  
Concen: 12.050 ppbv  
RT: 8.917 min Scan# 2728  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:131 Resp: 190922  
Ion Ratio Lower Upper  
131 100  
133 94.5 77.4 116.0  
119 64.9 51.2 76.8





#57

Chlorobenzene

Concen: 11.855 ppbv

RT: 8.911 min Scan# 21

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_L

ClientSampleId :

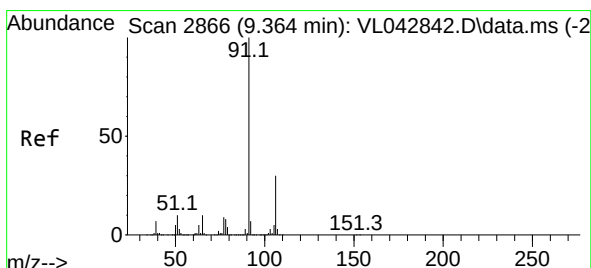
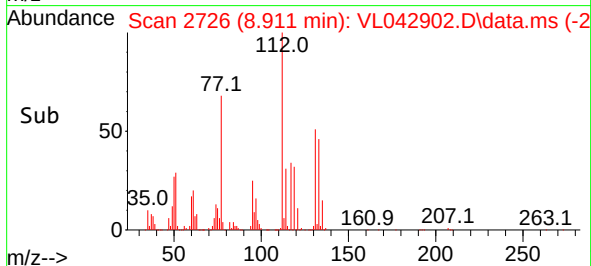
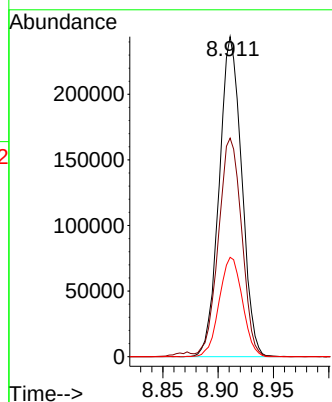
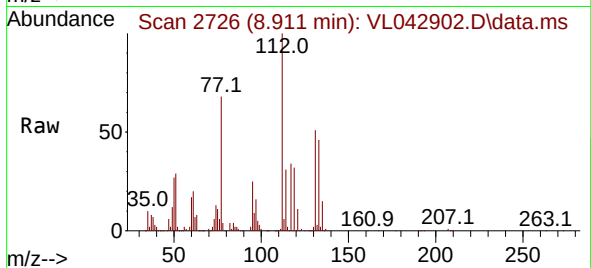
VL0908ABS01

|             |             |
|-------------|-------------|
| Tgt Ion:112 | Resp: 34534 |
| Ion Ratio   | Lower Upper |
| 112 100     |             |
| 77 68.3     | 55.5 83.3   |
| 114 31.0    | 27.2 33.2   |

Manual Integrations

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Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#58

Ethyl Benzene

Concen: 11.442 ppbv

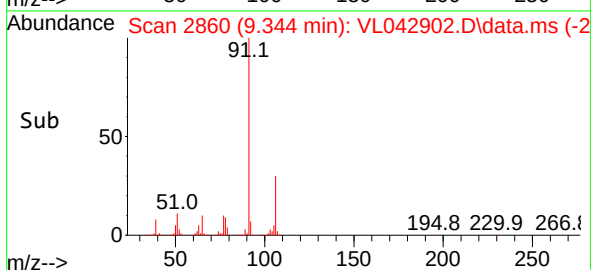
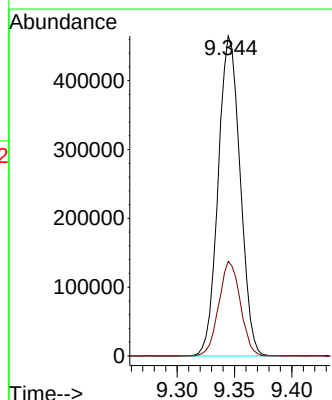
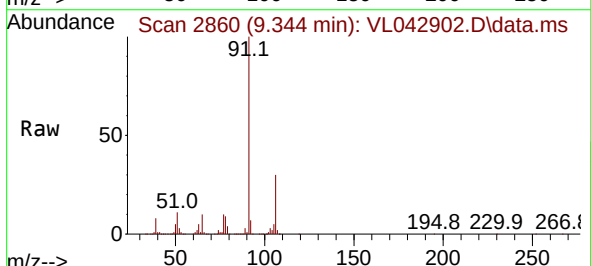
RT: 9.344 min Scan# 2860

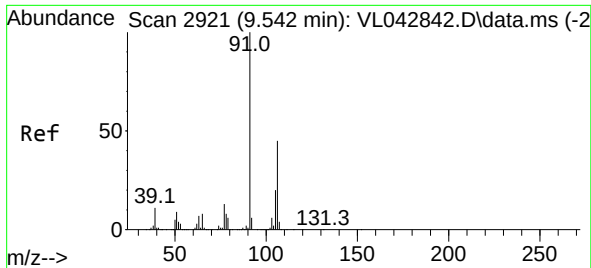
Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

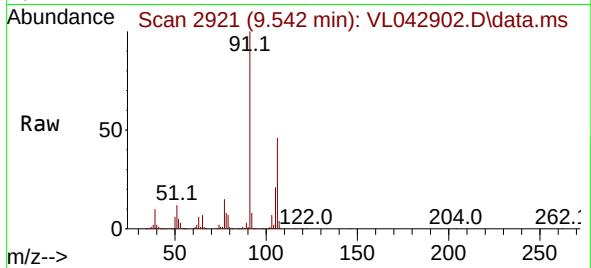
|             |              |
|-------------|--------------|
| Tgt Ion: 91 | Resp: 618650 |
| Ion Ratio   | Lower Upper  |
| 91 100      |              |
| 106 29.6    | 23.9 35.9    |





#59  
m/p-Xylene  
Concen: 23.968 ppbv m  
RT: 9.542 min Scan# 2921  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

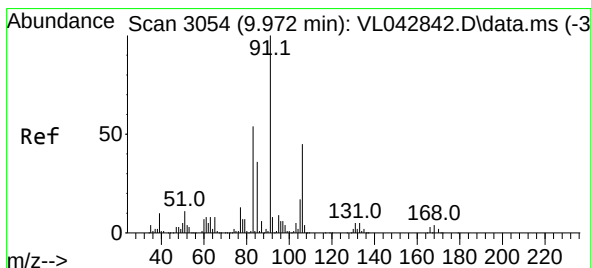
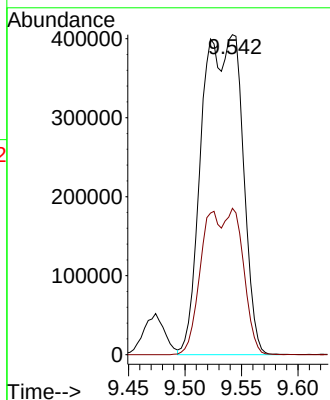
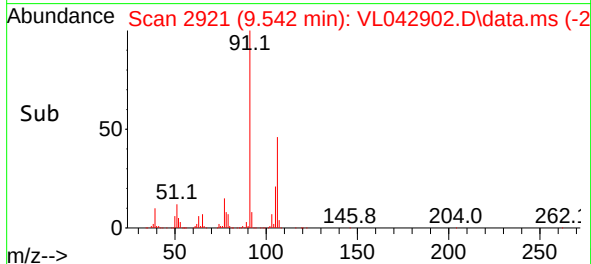
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



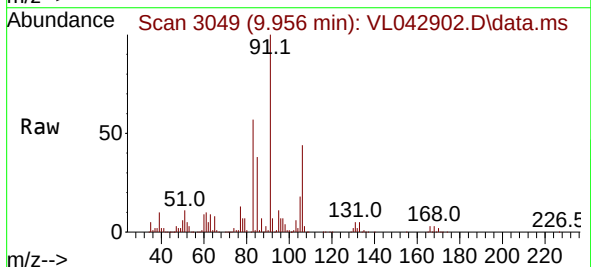
Tgt Ion: 91 Resp: 1015739  
Ion Ratio Lower Upper  
91 100  
106 45.2 0.0 0.0

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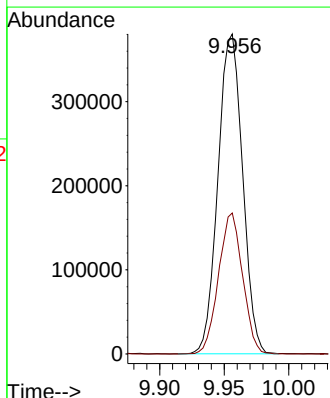
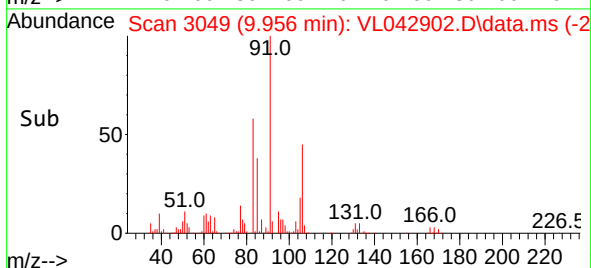
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

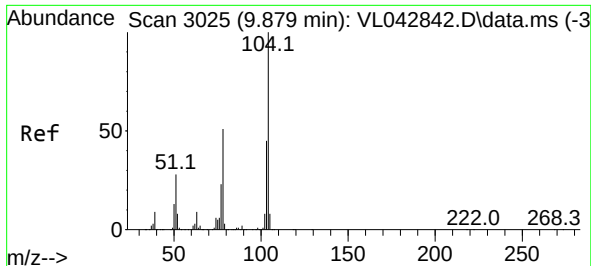


#60  
o-Xylene  
Concen: 11.844 ppbv  
RT: 9.956 min Scan# 3049  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



Tgt Ion: 91 Resp: 504922  
Ion Ratio Lower Upper  
91 100  
106 43.0 21.8 65.4





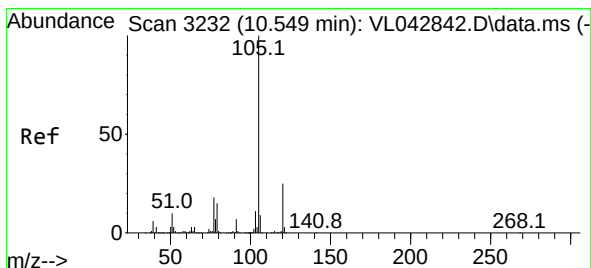
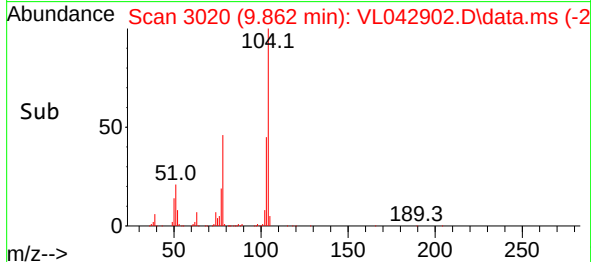
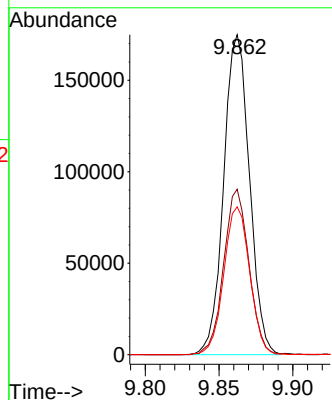
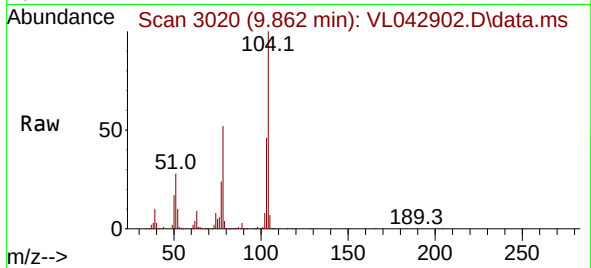
#61  
Styrene  
Concen: 10.644 ppbv  
RT: 9.862 min Scan# 3025  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion:104 Resp: 212594  
Ion Ratio Lower Upper  
104 100  
78 50.7 40.6 61.0  
103 46.6 37.7 56.5

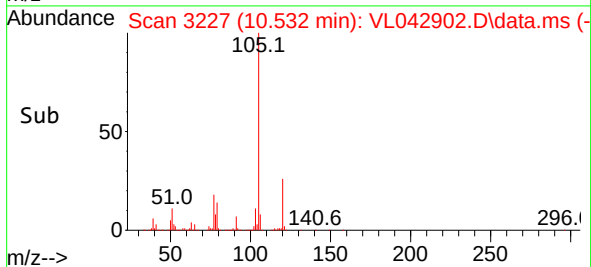
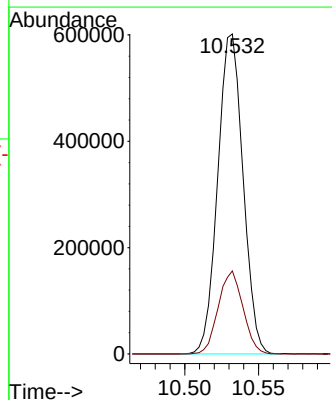
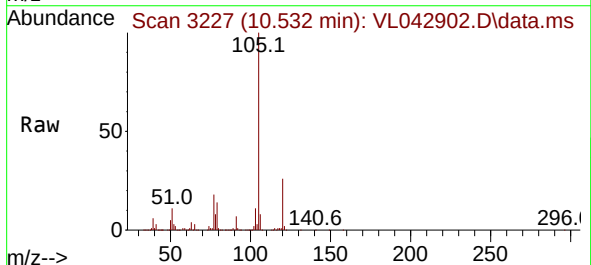
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APPROVED

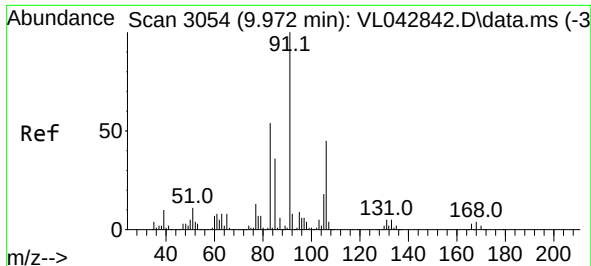
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#62  
Isopropylbenzene  
Concen: 11.521 ppbv  
RT: 10.532 min Scan# 3227  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 717761  
Ion Ratio Lower Upper  
105 100  
120 25.3 20.6 30.8





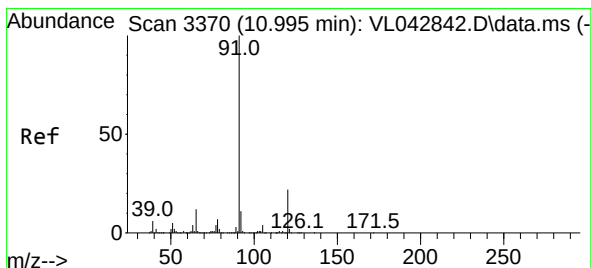
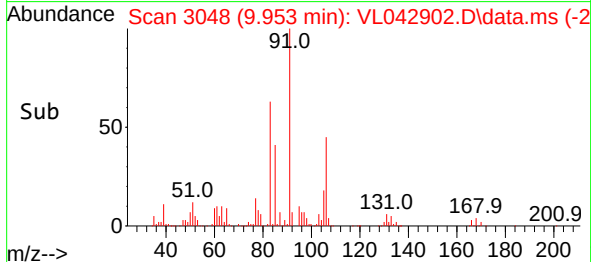
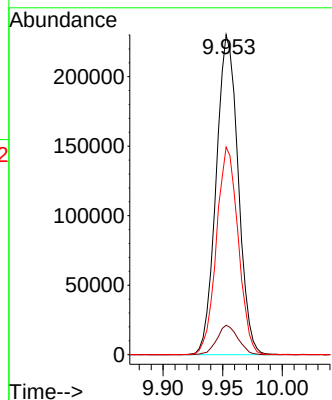
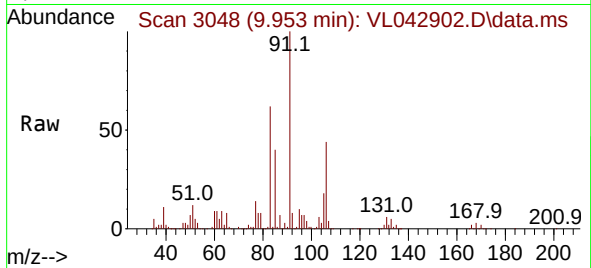
#63  
1,1,2,2-Tetrachloroethane  
Concen: 12.588 ppbv  
RT: 9.953 min Scan# 3054  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion: 83 Resp: 29511  
Ion Ratio Lower Upper  
83 100  
131 8.8 4.8 14.3  
85 64.3 32.3 96.8

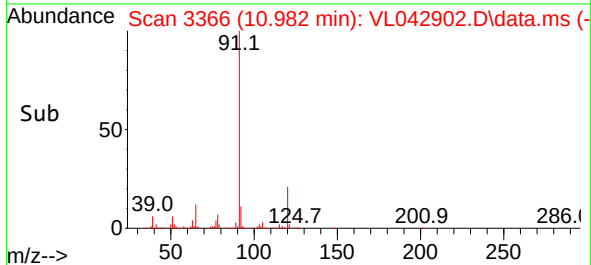
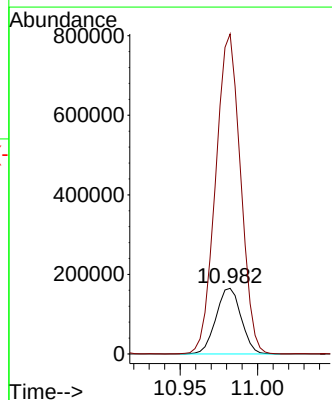
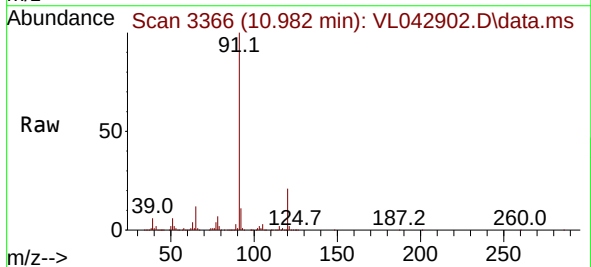
Manual Integrations  
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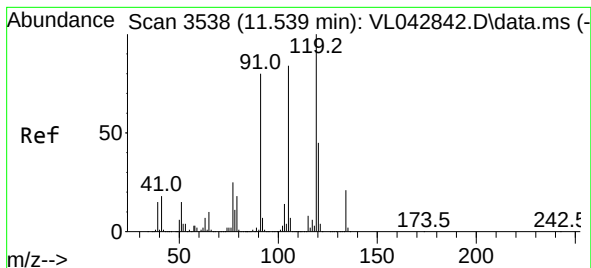
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#64  
n-propylbenzene  
Concen: 11.717 ppbv  
RT: 10.982 min Scan# 3366  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

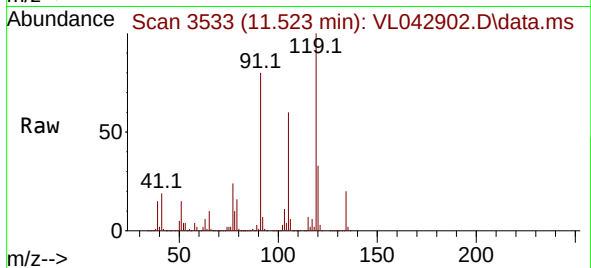
Tgt Ion:120 Resp: 186258  
Ion Ratio Lower Upper  
120 100  
91 484.6 375.8 563.6





#65  
tert-Butylbenzene  
Concen: 11.541 ppbv  
RT: 11.523 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

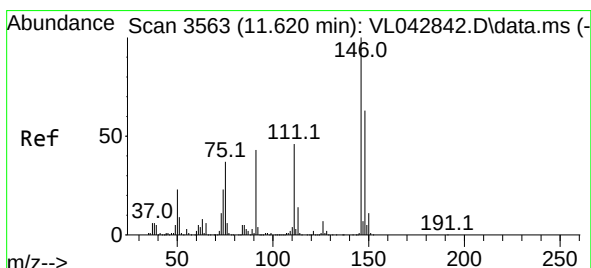
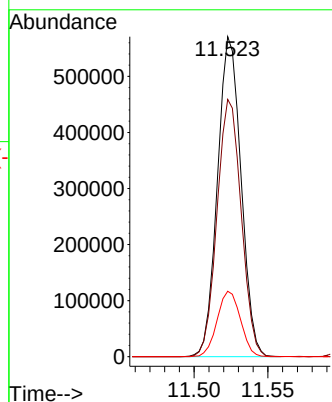
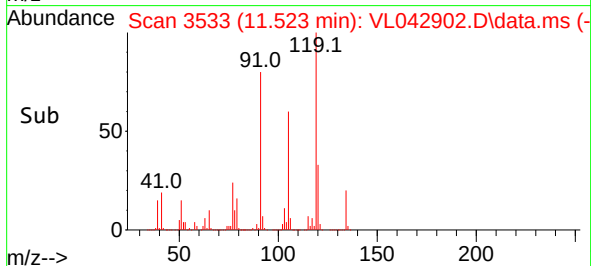
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



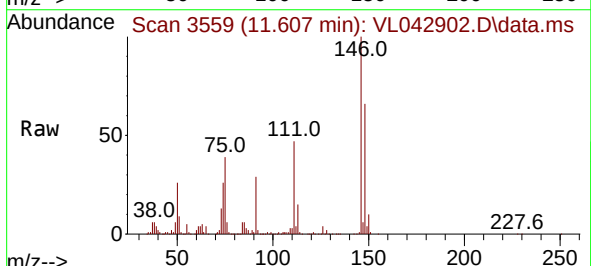
Tgt Ion: 119 Resp: 63384  
Ion Ratio Lower Upper  
119 100  
91 82.5 63.9 95.9  
134 20.3 17.0 25.4

Manual Integrations  
APPROVED

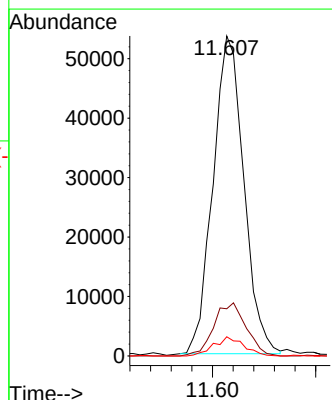
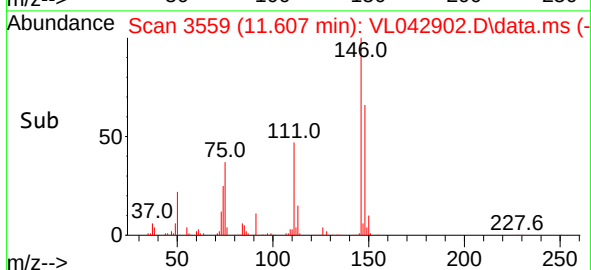
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

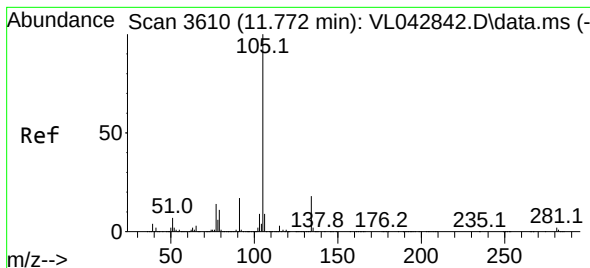


#66  
Benzyl Chloride  
Concen: 7.954 ppbv  
RT: 11.607 min Scan# 3559  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



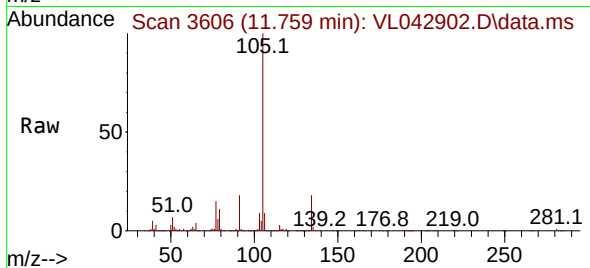
Tgt Ion: 91 Resp: 55458  
Ion Ratio Lower Upper  
91 100  
126 17.6 14.2 21.4  
128 5.9 5.0 7.6





#67  
sec-Butylbenzene  
Concen: 11.739 ppbv  
RT: 11.759 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

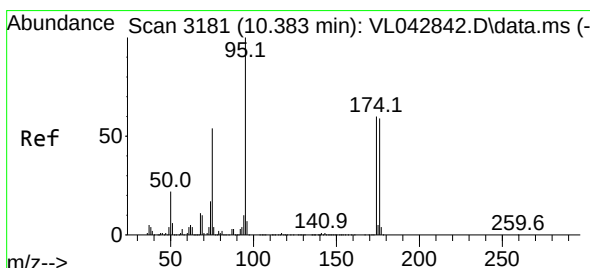
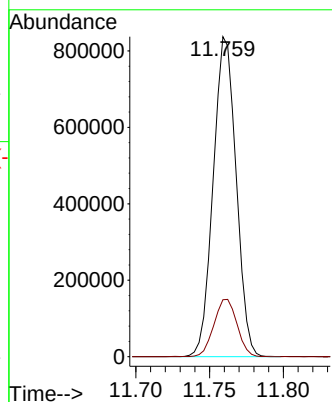
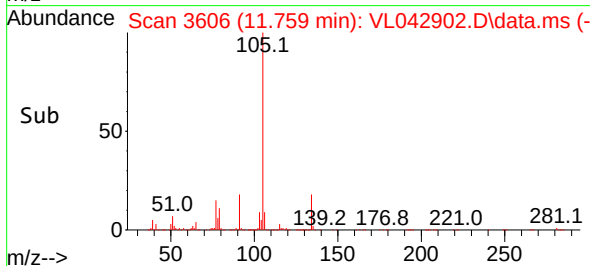
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



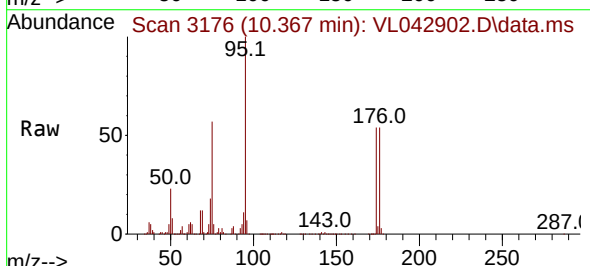
Tgt Ion:105 Resp: 90497  
Ion Ratio Lower Upper  
105 100  
134 18.2 14.9 22.3

Manual Integrations  
APPROVED

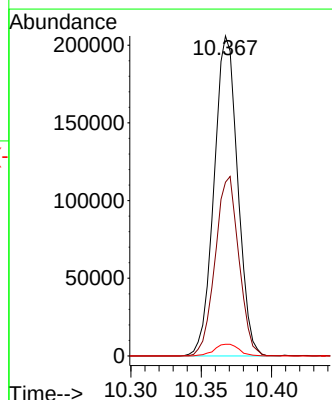
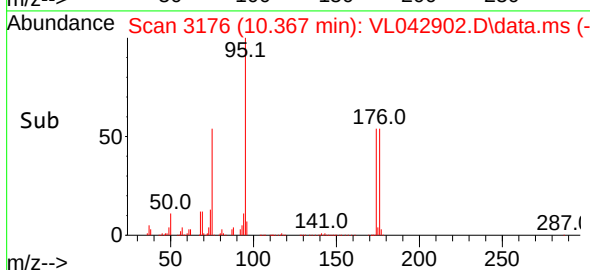
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



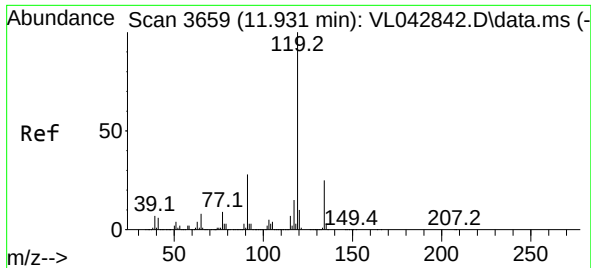
#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.481 ppbv  
RT: 10.367 min Scan# 3176  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



Tgt Ion: 95 Resp: 240840  
Ion Ratio Lower Upper  
95 100  
174 56.6 48.4 72.6  
175 3.8 3.8 5.8







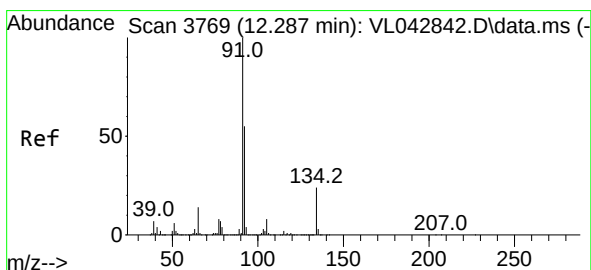
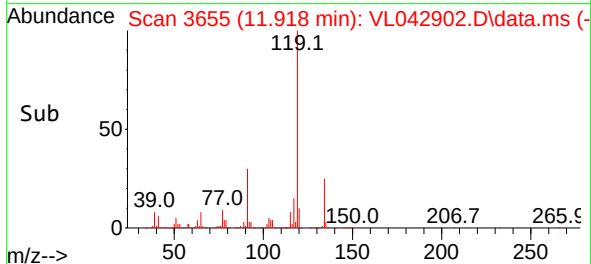
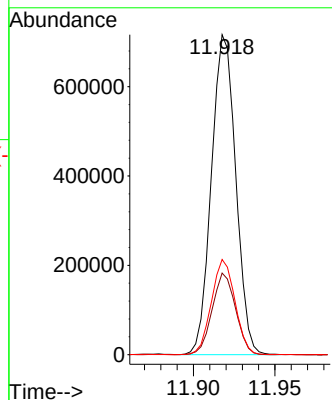
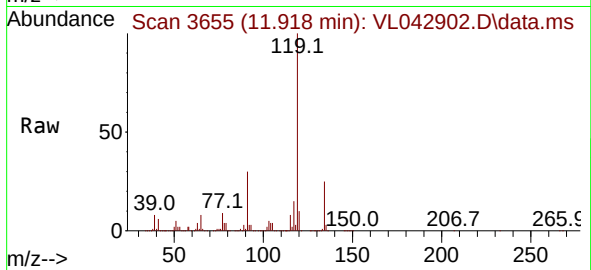
#69  
p-Isopropyltoluene  
Concen: 11.229 ppbv  
RT: 11.918 min Scan# 3655  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 119   | Resp: | 74321 |
| Ion Ratio | Lower | Upper |       |
| 119       | 100   |       |       |
| 134       | 24.6  | 20.6  | 30.8  |
| 91        | 28.9  | 22.6  | 34.0  |

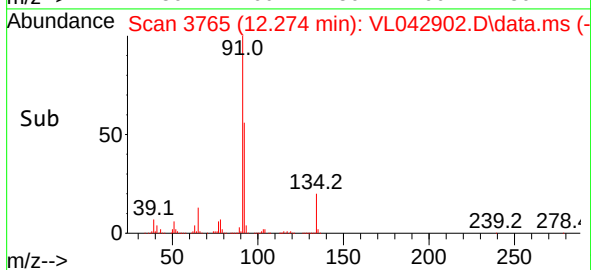
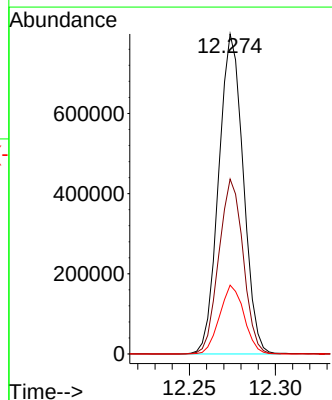
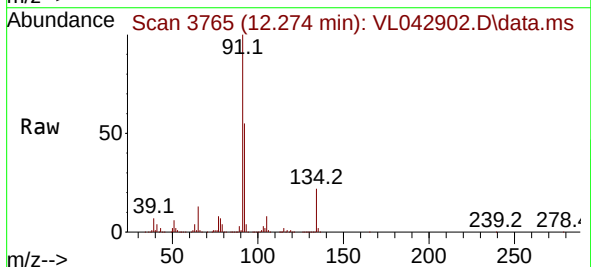
Manual Integrations  
APPROVED

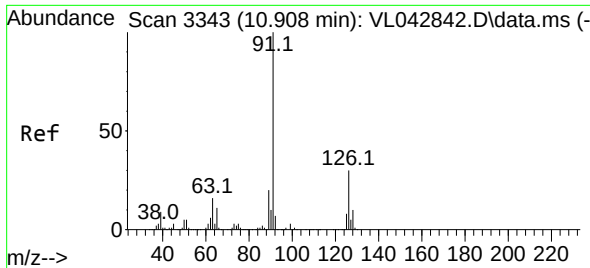
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#70  
n-Butylbenzene  
Concen: 12.084 ppbv  
RT: 12.274 min Scan# 3765  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 91    | Resp: | 793205 |
| Ion Ratio | Lower | Upper |        |
| 91        | 100   |       |        |
| 92        | 54.3  | 44.6  | 66.8   |
| 134       | 21.4  | 19.0  | 28.4   |





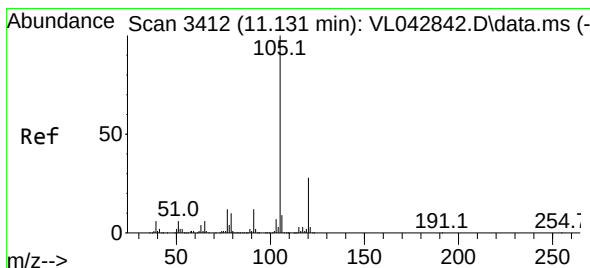
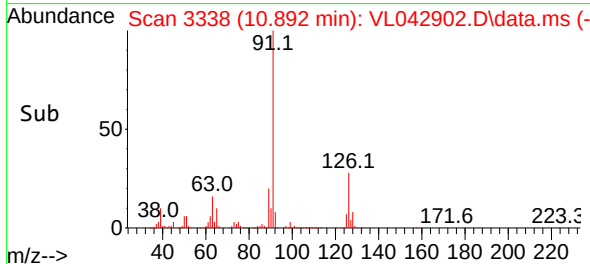
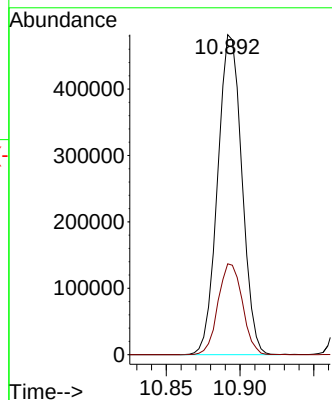
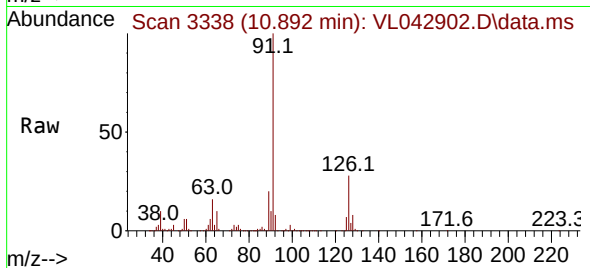
#71  
2-Chlorotoluene  
Concen: 11.398 ppbv  
RT: 10.892 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion: 91 Resp: 551398  
Ion Ratio Lower Upper  
91 100  
126 28.5 12.0 47.8

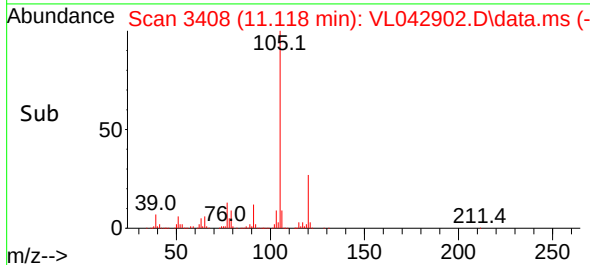
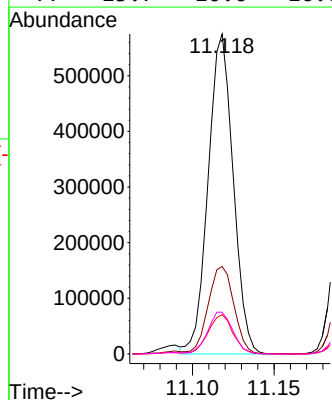
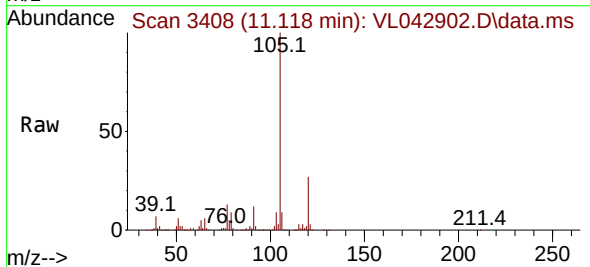
Manual Integrations  
APPROVED

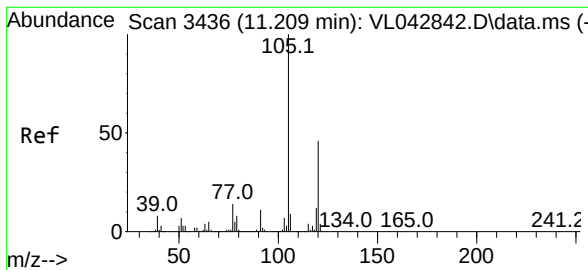
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#72  
4-Ethyltoluene  
Concen: 11.871 ppbv  
RT: 11.118 min Scan# 3408  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

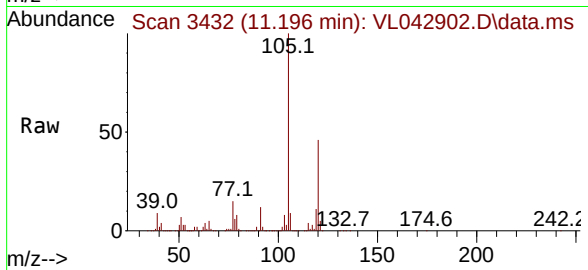
Tgt Ion:105 Resp: 613510  
Ion Ratio Lower Upper  
105 100  
120 28.9 23.4 35.2  
91 12.5 9.8 14.6  
77 13.7 10.6 16.0





#73  
1,3,5-Trimethylbenzene  
Concen: 11.496 ppbv  
RT: 11.196 min Scan# 3436  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

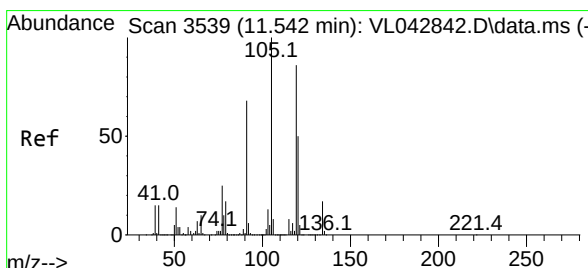
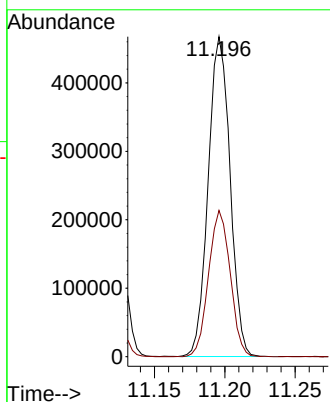
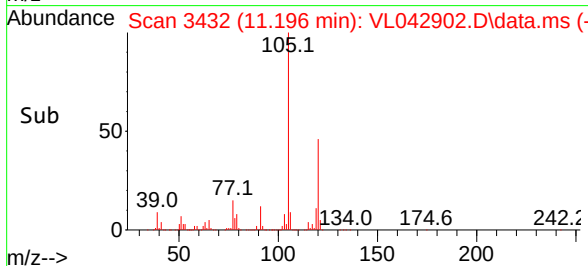
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01



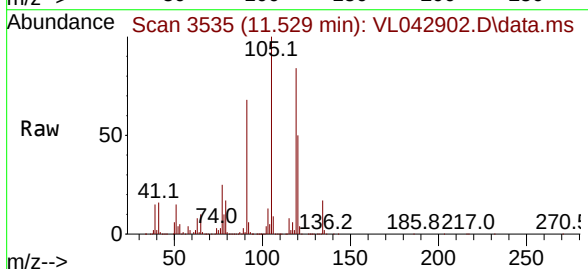
Tgt Ion:105 Resp: 505222  
Ion Ratio Lower Upper  
105 100  
120 45.7 36.6 54.8

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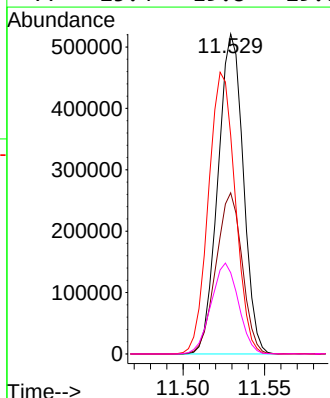
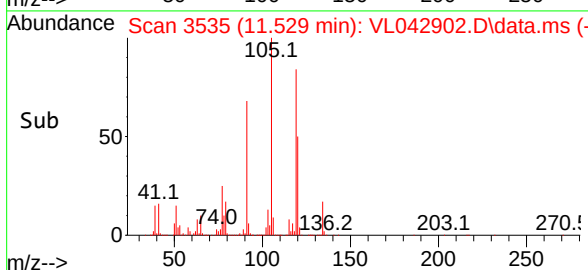
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

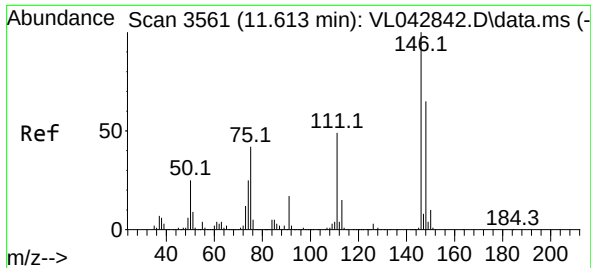


#74  
1,2,4-Trimethylbenzene  
Concen: 11.668 ppbv  
RT: 11.529 min Scan# 3535  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35



Tgt Ion:105 Resp: 562868  
Ion Ratio Lower Upper  
105 100  
120 50.3 39.8 59.6  
91 68.3 54.2 81.4  
77 25.4 19.8 29.6





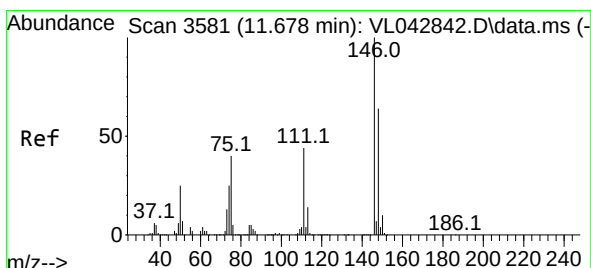
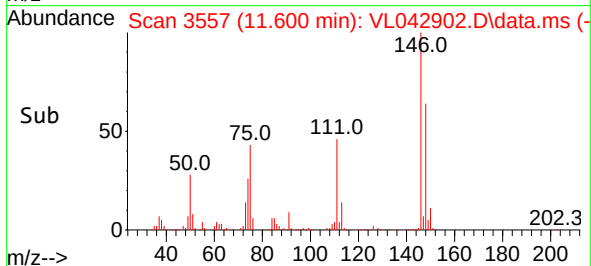
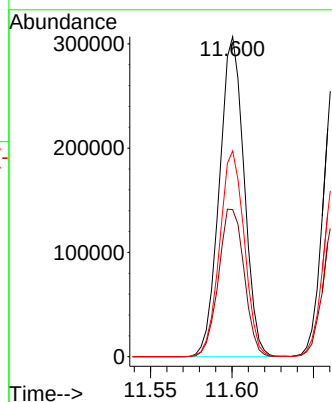
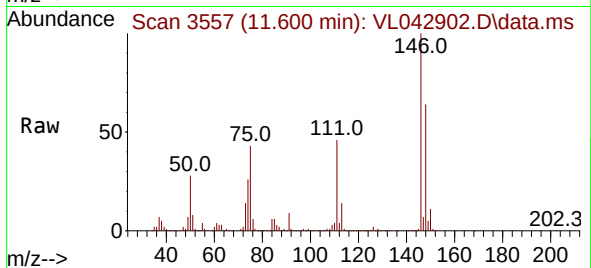
#75  
1,3-Dichlorobenzene  
Concen: 11.778 ppbv  
RT: 11.600 min Scan# 3557  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion:146 Resp: 322979  
Ion Ratio Lower Upper  
146 100  
111 48.0 23.9 71.7  
148 64.2 31.4 94.0

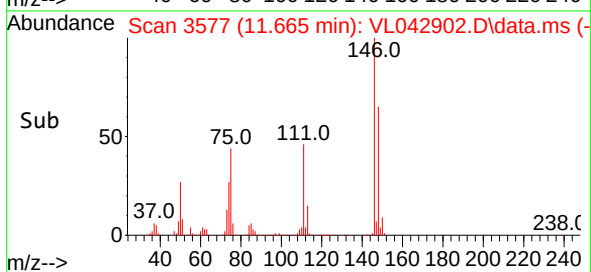
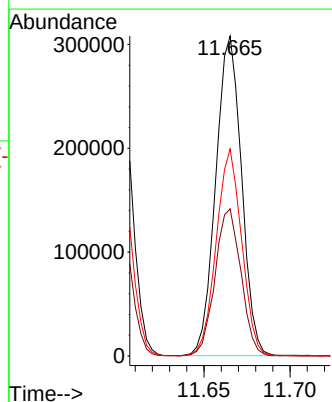
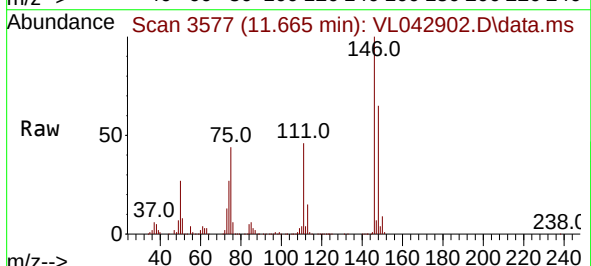
Manual Integrations  
APPROVED

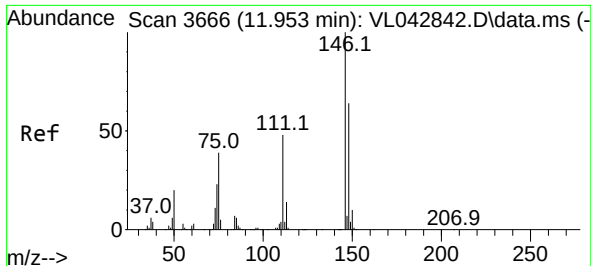
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#76  
1,4-Dichlorobenzene  
Concen: 11.563 ppbv  
RT: 11.665 min Scan# 3577  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:146 Resp: 320689  
Ion Ratio Lower Upper  
146 100  
111 46.3 22.7 68.1  
148 64.1 31.8 95.3





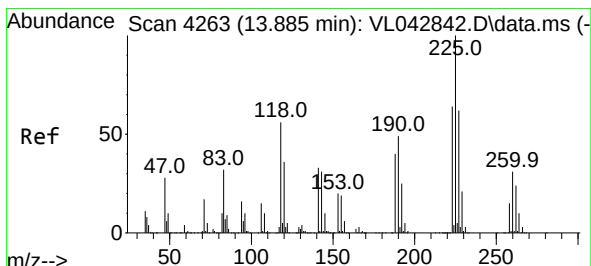
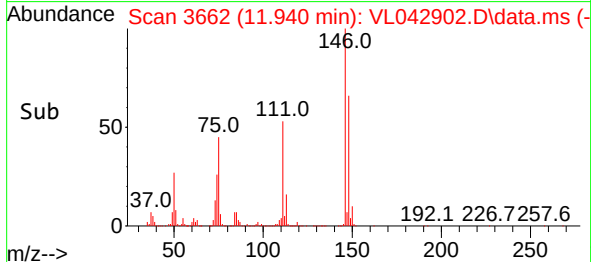
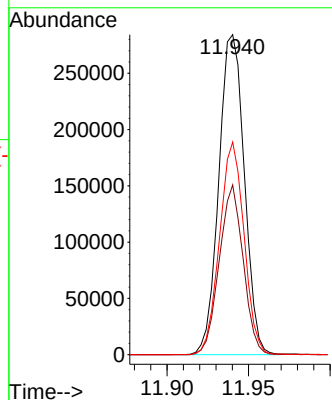
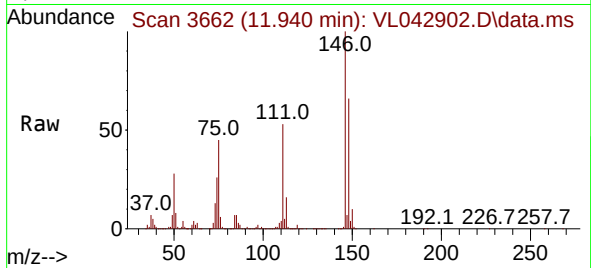
#77  
1,2-Dichlorobenzene  
Concen: 11.524 ppbv  
RT: 11.940 min Scan# 30943  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion:146 Resp: 30943  
Ion Ratio Lower Upper  
146 100  
111 49.7 24.6 74.0  
148 63.7 32.0 96.0

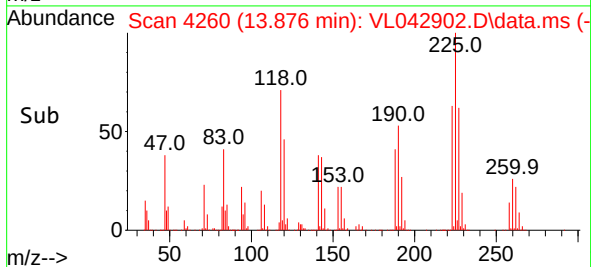
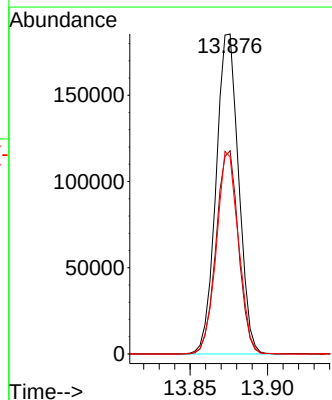
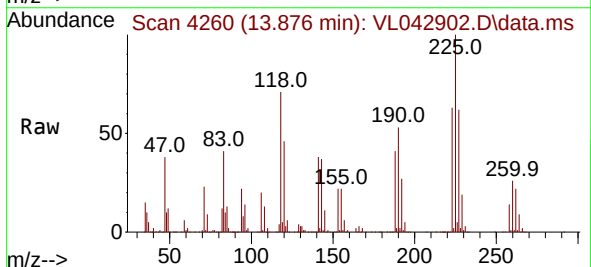
Manual Integrations  
APPROVED

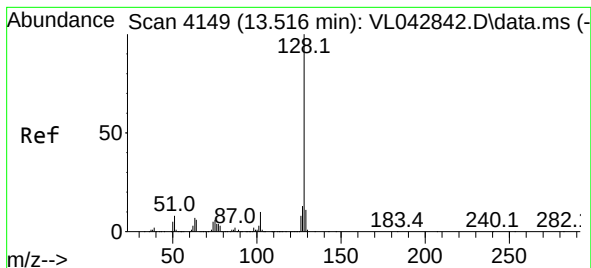
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.542 ppbv  
RT: 13.876 min Scan# 4260  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:225 Resp: 187990  
Ion Ratio Lower Upper  
225 100  
223 63.0 51.4 77.2  
227 62.1 51.9 77.9





#79

Naphthalene

Concen: 10.914 ppbv

RT: 13.507 min Scan# 4149

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_L

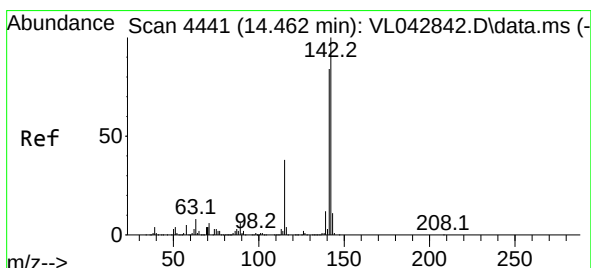
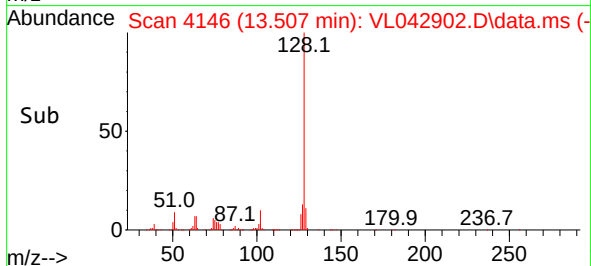
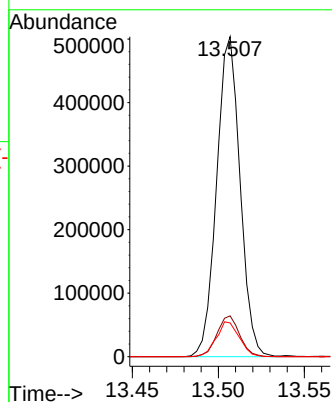
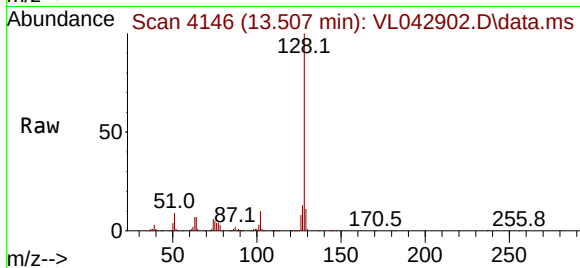
ClientSampleId :

VL0908ABS01

|             |             |
|-------------|-------------|
| Tgt Ion:128 | Resp: 47731 |
| Ion Ratio   | Lower Upper |
| 128 100     |             |
| 127 12.8    | 10.6 16.0   |
| 129 10.6    | 8.9 13.3    |

Manual Integrations  
APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#80

Naphthalene,2-methyl-

Concen: 8.713 ppbv

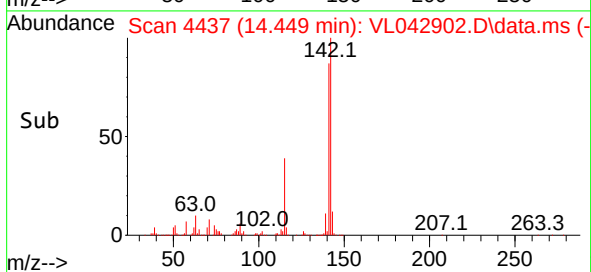
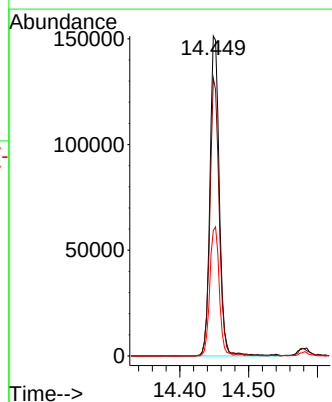
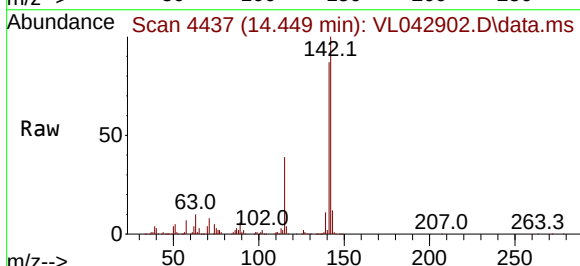
RT: 14.449 min Scan# 4437

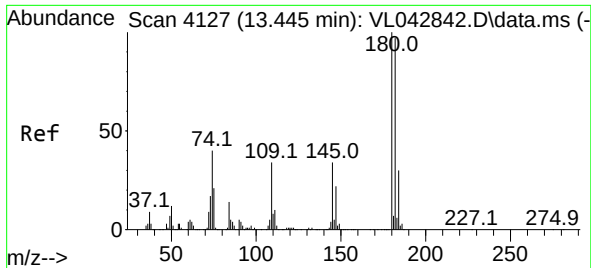
Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

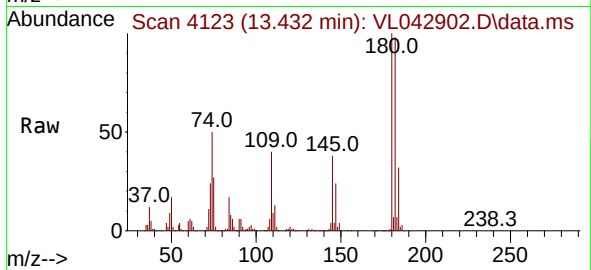
|             |              |
|-------------|--------------|
| Tgt Ion:142 | Resp: 142381 |
| Ion Ratio   | Lower Upper  |
| 142 100     |              |
| 141 85.9    | 67.0 100.6   |
| 115 41.3    | 30.9 46.3    |





#81  
 1,2,4-Trichlorobenzene  
 Concen: 10.401 ppbv  
 RT: 13.432 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

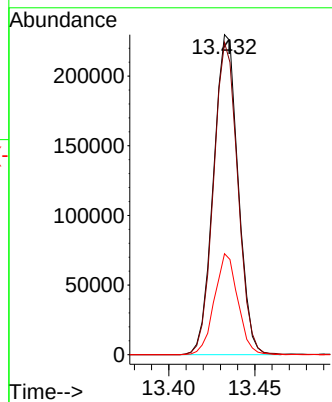
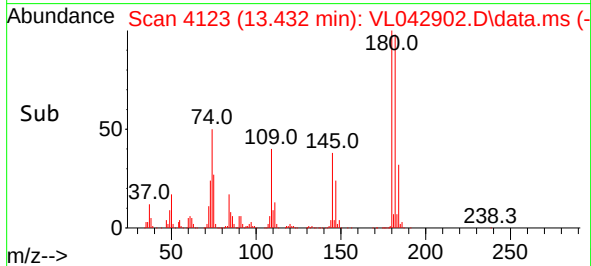
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01



Tgt Ion:180 Resp: 228630  
 Ion Ratio Lower Upper  
 180 100  
 182 96.5 76.9 115.3  
 184 30.0 24.5 36.7

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025



## Report of Analysis

|                    |                                                 |                 |              |
|--------------------|-------------------------------------------------|-----------------|--------------|
| Client:            | Apex Companies, LLC.                            | Date Collected: |              |
| Project:           | Emerson Vapor Intrusion REG006-0309010-25011690 | Date Received:  |              |
| Client Sample ID:  | IA-2DUP                                         | SDG No.:        | Q3038        |
| Lab Sample ID:     | Q3037-01DUP                                     | Matrix:         | Air          |
| Analytical Method: | TO-15                                           | Test:           | VOCMS Group2 |
| Sample Wt/Vol:     | 400 Units: mL                                   |                 |              |

|                   |           |           |                |               |
|-------------------|-----------|-----------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed  | Prep Batch ID |
| VL042905.D        | 1         |           | 09/08/25 15:59 | VL090825      |

| CAS Number                | Parameter               | Conc.<br>ppbv | Conc.<br>ug/M3 | Qualifier | MDL<br>ug/m3        | LOQ / CRQL<br>ug/m3 |
|---------------------------|-------------------------|---------------|----------------|-----------|---------------------|---------------------|
| <b>TARGETS</b>            |                         |               |                |           |                     |                     |
| 75-01-4                   | Vinyl Chloride          | 0.030         | 0.080          | U         | 0.080               | 0.080               |
| 107-06-2                  | 1,2-Dichloroethane      | 0.090         | 0.36           | U         | 0.36                | 2.02                |
| 79-01-6                   | Trichloroethene         | 0.020         | 0.11           | U         | 0.11                | 0.16                |
| 127-18-4                  | Tetrachloroethene       | 0.020         | 0.14           | U         | 0.14                | 0.20                |
| <b>SURROGATES</b>         |                         |               |                |           |                     |                     |
| 460-00-4                  | 1-Bromo-4-Fluorobenzene | 10.4          |                |           | 70 (65) - 130 (135) | 104% SPK: 10        |
| <b>INTERNAL STANDARDS</b> |                         |               |                |           |                     |                     |
| 74-97-5                   | Bromochloromethane      | 141000        |                | 2.781     |                     |                     |
| 540-36-3                  | 1,4-Difluorobenzene     | 372000        |                | 3.949     |                     |                     |
| 3114-55-4                 | Chlorobenzene-d5        | 303000        |                | 8.875     |                     |                     |

U = Not Detected

RL = Reporting Limit

MDL = Method Detection Limit

E = Value Exceeds Calibration Range

D = Dilution

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

Q = indicates LCS control criteria did not meet requirements



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042905.D  
 Acq On : 08 Sep 2025 15:59  
 Operator : SY/MD  
 Sample : Q3037-01DUP  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DUP

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

Quant Time: Sep 09 00:57:19 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2025

QLast Update : Tue Sep 09 00:52:26 2025

Response via : Initial Calibration

| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.781  | 49    | 141221   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.949  | 114   | 372044   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.875  | 117   | 303028   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95    | 235889   | 10.380   | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 103.800% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.496  | 85    | 9819     | 0.474    | ppbv   | 97       |
| 3) Chlorodifluoromethane    | 1.473  | 51    | 86667    | 3.788    | ppbv # | 90       |
| 4) Chloromethane            | 1.531  | 50    | 8391     | 1.005    | ppbv   | 100      |
| 9) Propene                  | 1.486  | 41    | 8897m    | 0.901    | ppbv   |          |
| 11) Trichlorofluoromethane  | 1.874  | 101   | 8119m    | 0.398    | ppbv   |          |
| 13) Ethanol                 | 1.719  | 45    | 171366   | 189.695  | ppbv   | 92       |
| 15) Acetone                 | 1.832  | 43    | 2269673  | 121.496  | ppbv # | 76       |
| 19) Isopropyl Alcohol       | 1.884  | 45    | 2182649  | 195.618  | ppbv   | 98       |
| 20) Methylene Chloride      | 2.062  | 84    | 8047     | 1.028    | ppbv # | 74       |
| 23) Vinyl Acetate           | 2.450  | 43    | 18956m   | 0.738    | ppbv   |          |
| 25) Ethyl Acetate           | 2.832  | 43    | 150520   | 3.329    | ppbv # | 95       |
| 29) Chloroform              | 2.845  | 83    | 8213     | 0.276    | ppbv   | 93       |
| 34) 2-Butanone              | 2.554  | 43    | 27696    | 1.102    | ppbv   | 97       |
| 35) Carbon Tetrachloride    | 3.755  | 117   | 4459     | 0.174    | ppbv # | 97       |
| 36) Benzene                 | 3.648  | 78    | 4495m    | 0.126    | ppbv   |          |
| 41) Tetrahydrofuran         | 3.062  | 42    | 3374m    | 0.241    | ppbv   |          |
| 43) Methyl Methacrylate     | 4.878  | 69    | 4057m    | 0.276    | ppbv   |          |
| 50) 4-Methyl-2-Pentanone    | 5.745  | 43    | 68077    | 2.005    | ppbv   | 99       |
| 53) Toluene                 | 6.927  | 91    | 14047m   | 0.332    | ppbv   |          |
| 59) m/p-Xylene              | 9.519  | 91    | 7173m    | 0.171    | ppbv   |          |
| 60) o-Xylene                | 9.959  | 91    | 4723     | 0.112    | ppbv   | 87       |
| 64) n-propylbenzene         | 10.989 | 120   | 1655m    | 0.105    | ppbv   |          |
| 72) 4-Ethyltoluene          | 11.121 | 105   | 12693    | 0.248    | ppbv # | 56       |
| 73) 1,3,5-Trimethylbenzene  | 11.196 | 105   | 14080    | 0.324    | ppbv # | 84       |
| 74) 1,2,4-Trimethylbenzene  | 11.532 | 105   | 53636    | 1.124    | ppbv # | 59       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

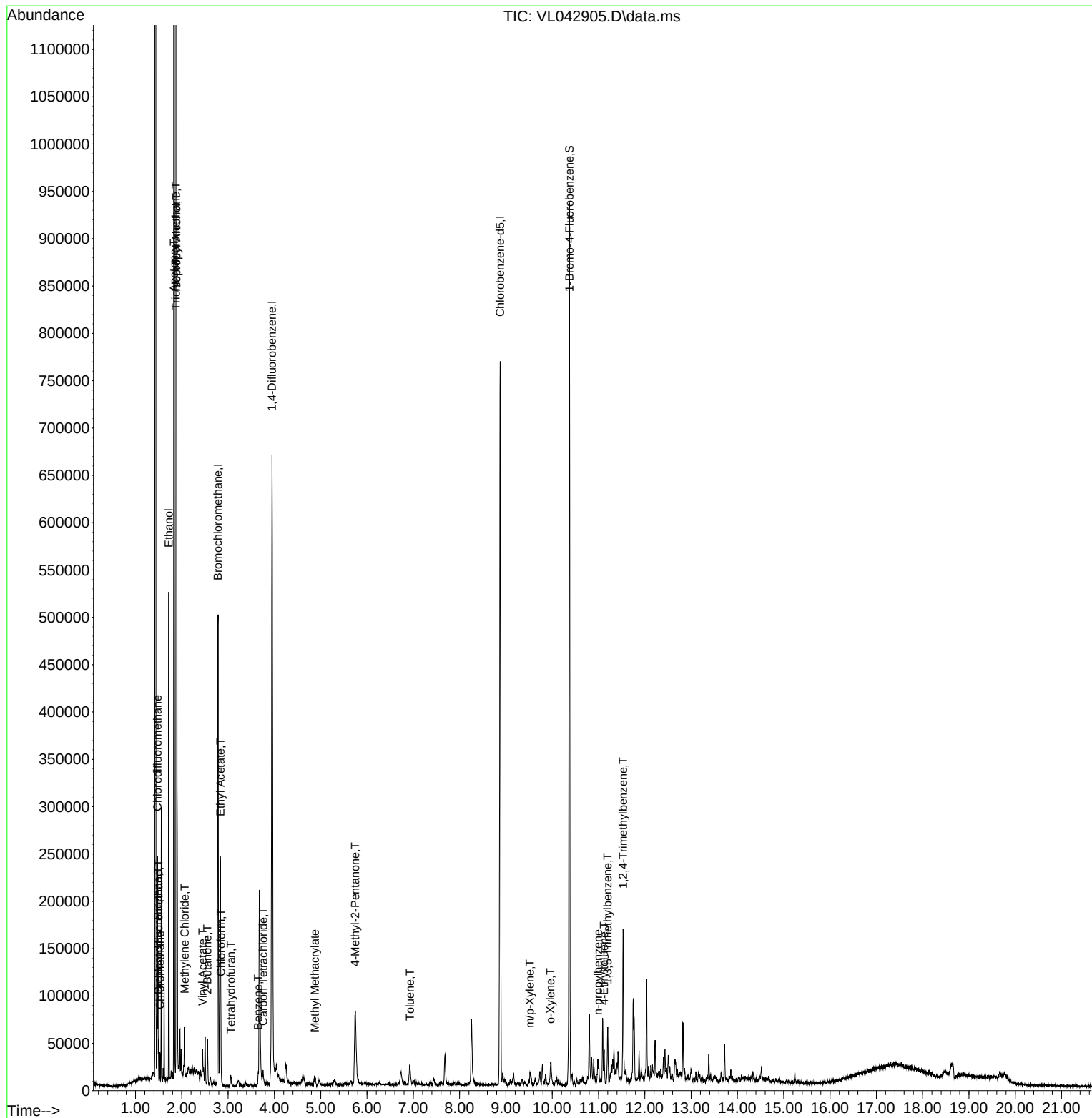
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Data File : VL042905.D  
Acq On : 08 Sep 2025 15:59  
Operator : SY/MD  
Sample : Q3037-01DUP  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

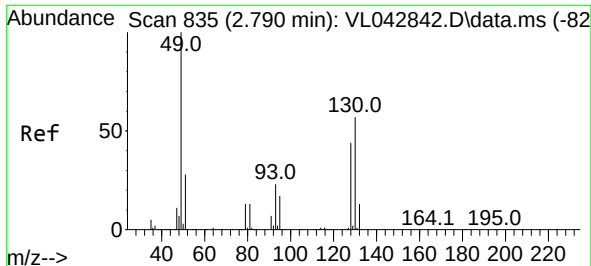
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

Quant Time: Sep 09 00:57:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Sep 09 00:52:26 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 09/09/2025  
Supervised By : Mahesh Dadoda 09/11/2025





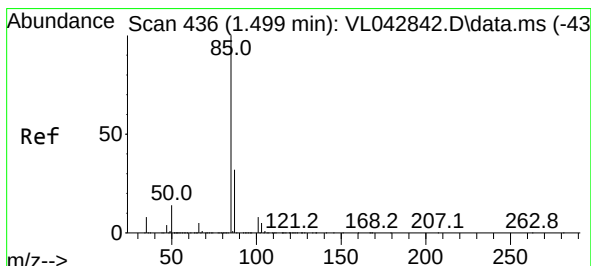
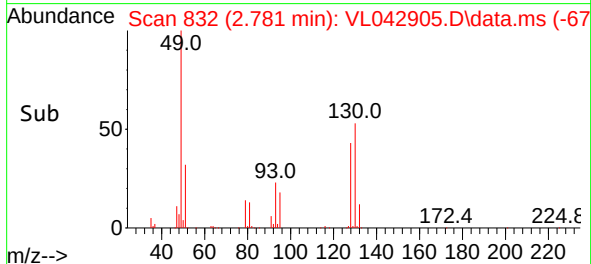
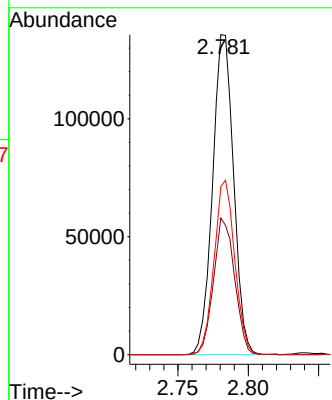
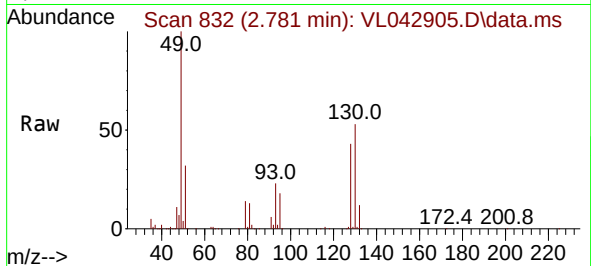
#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.781 min Scan# 81  
Delta R.T. 0.004 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

Tgt Ion: 49 Resp: 14122  
Ion Ratio Lower Upper  
49 100  
128 42.8 23.7 71.1  
130 53.7 30.6 91.6

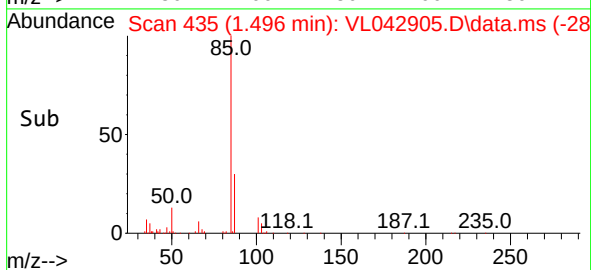
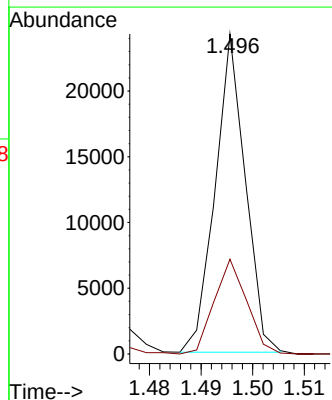
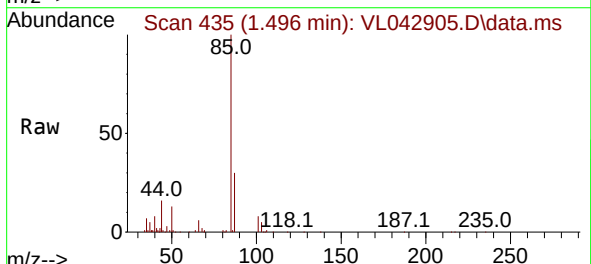
Manual Integrations  
APPROVED

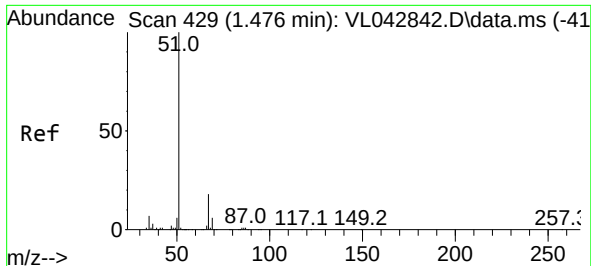
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#2  
Dichlorodifluoromethane  
Concen: 0.474 ppbv  
RT: 1.496 min Scan# 435  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

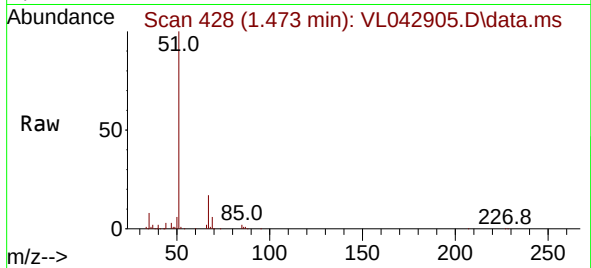
Tgt Ion: 85 Resp: 9819  
Ion Ratio Lower Upper  
85 100  
87 29.8 25.3 37.9





#3  
Chlorodifluoromethane  
Concen: 3.788 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

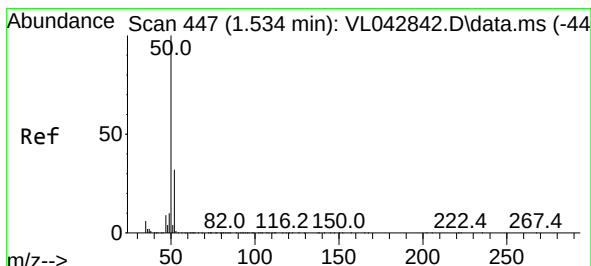
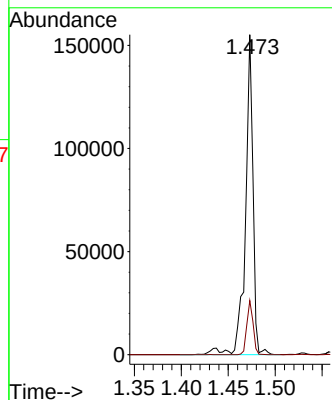
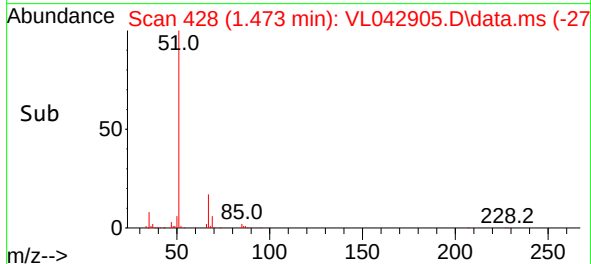
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP



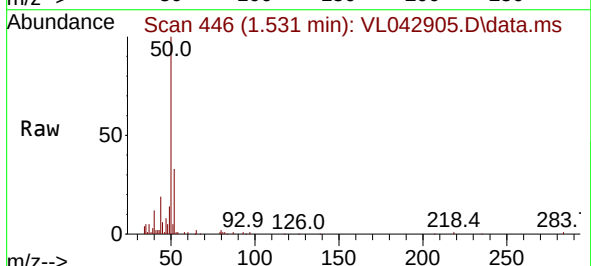
Tgt Ion: 51 Resp: 8666  
Ion Ratio Lower Upper  
51 100  
67 14.0 14.9 22.3

Manual Integrations  
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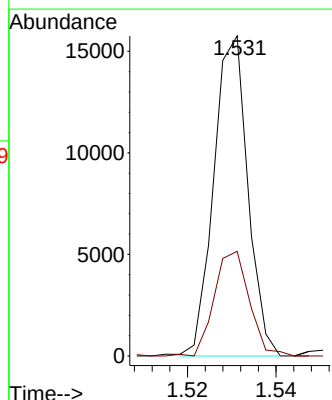
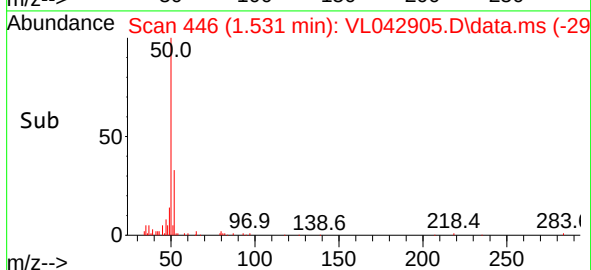
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

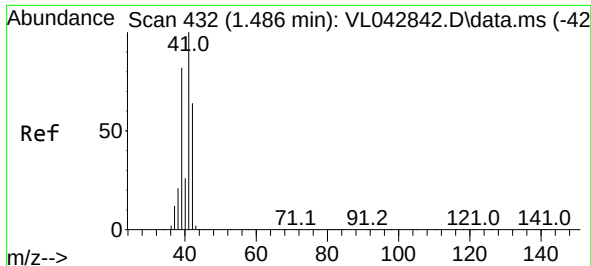


#4  
Chloromethane  
Concen: 1.005 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59



Tgt Ion: 50 Resp: 8391  
Ion Ratio Lower Upper  
50 100  
52 32.2 25.9 38.9





#9

Propene

Concen: 0.901 ppbv m

RT: 1.486 min Scan# 41

Delta R.T. 0.010 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA\_L

ClientSampleId :

IA-2DUP

Tgt Ion: 41 Resp: 889

Ion Ratio Lower Upper

41 100

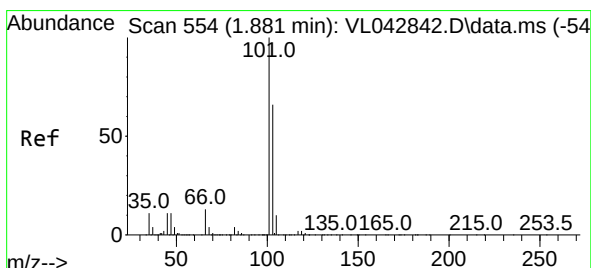
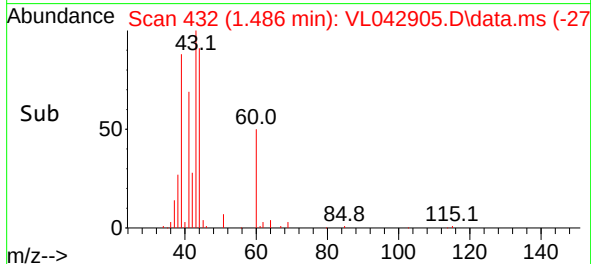
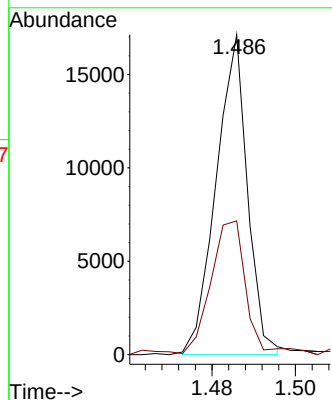
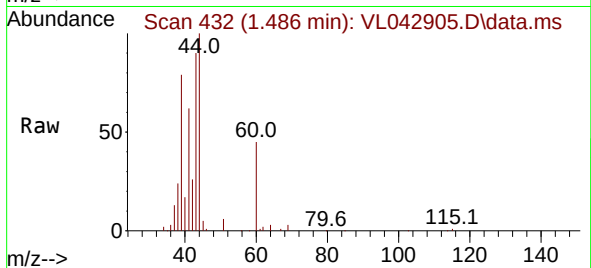
42 1680.7 53.0 79.4

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#11

Trichlorofluoromethane

Concen: 0.398 ppbv m

RT: 1.874 min Scan# 552

Delta R.T. 0.003 min

Lab File: VL042905.D

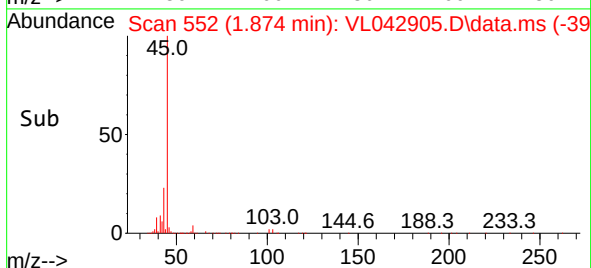
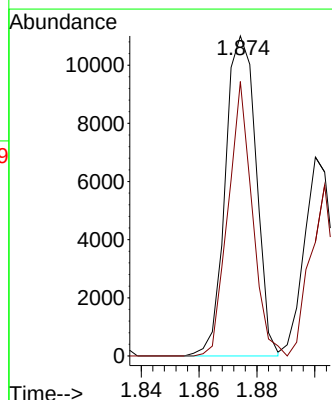
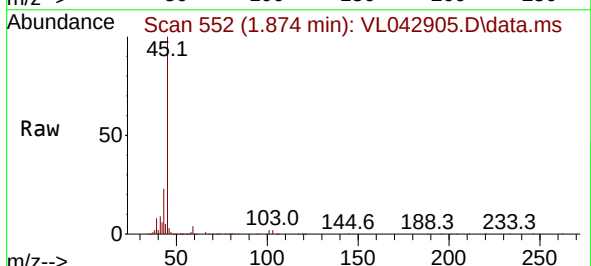
Acq: 08 Sep 2025 15:59

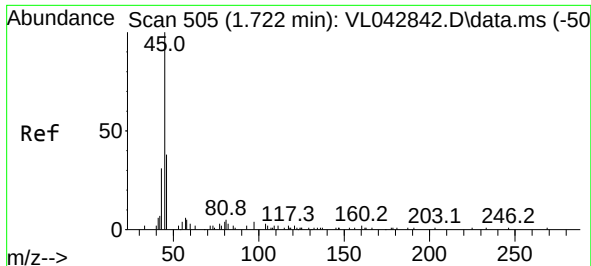
Tgt Ion:101 Resp: 8119

Ion Ratio Lower Upper

101 100

103 85.8 52.5 78.7#





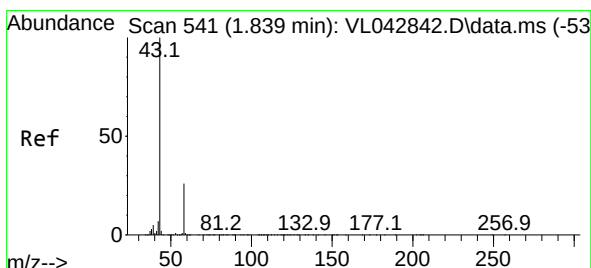
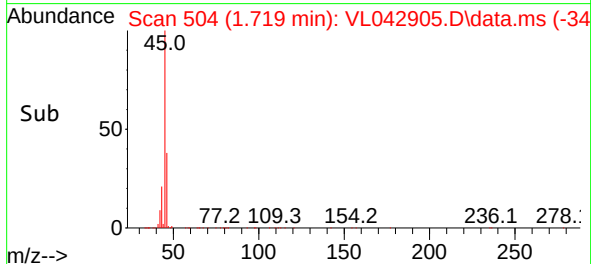
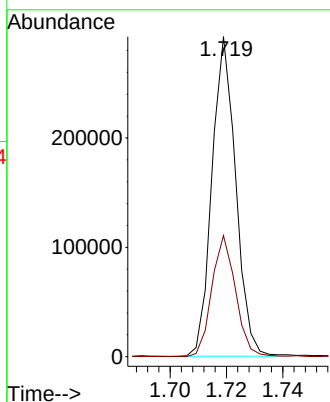
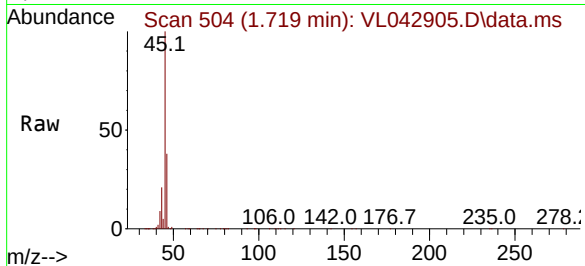
#13  
Ethanol  
Concen: 189.695 ppbv  
RT: 1.719 min Scan# 504  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

Tgt Ion: 45 Resp: 171360  
Ion Ratio Lower Upper  
45 100  
46 38.4 17.5 69.9

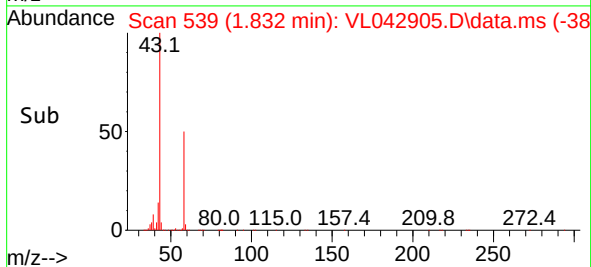
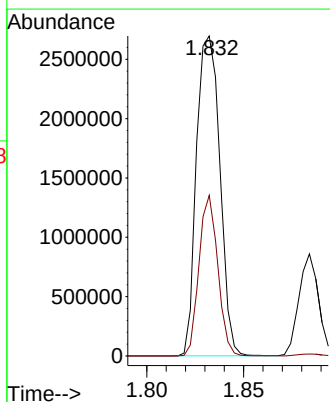
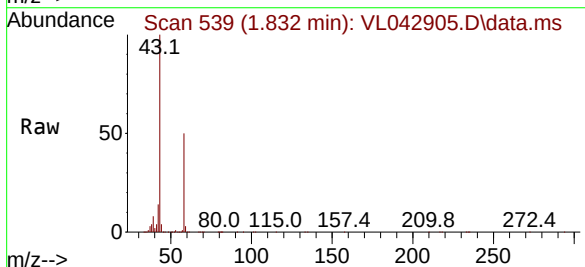
Manual Integrations  
APPROVED

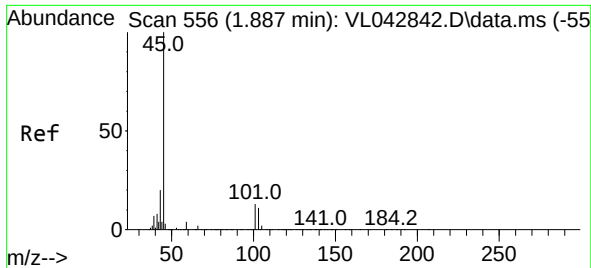
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#15  
Acetone  
Concen: 121.496 ppbv  
RT: 1.832 min Scan# 539  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 43 Resp: 2269673  
Ion Ratio Lower Upper  
43 100  
58 40.4 22.4 33.6#





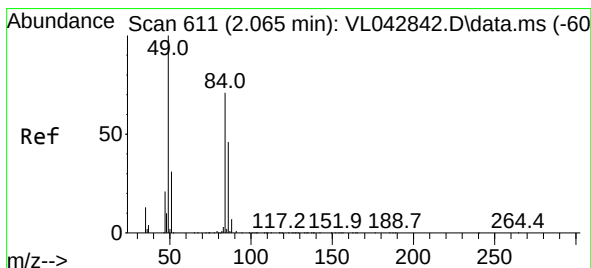
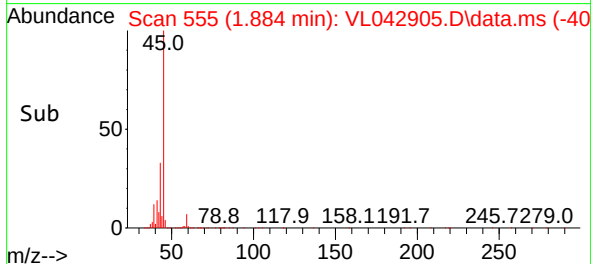
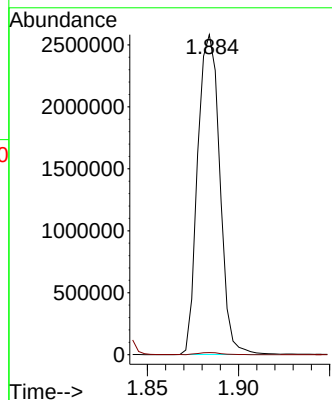
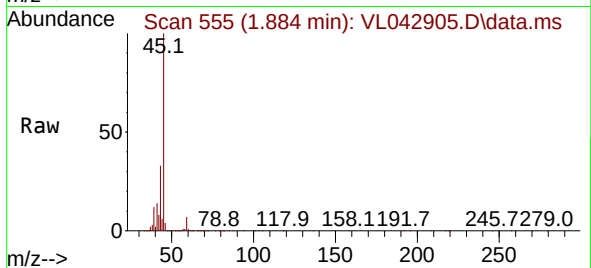
#19  
Isopropyl Alcohol  
Concen: 195.618 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

Tgt Ion: 45 Resp: 2182649  
Ion Ratio Lower Upper  
45 100  
58 42.0 32.7 49.1

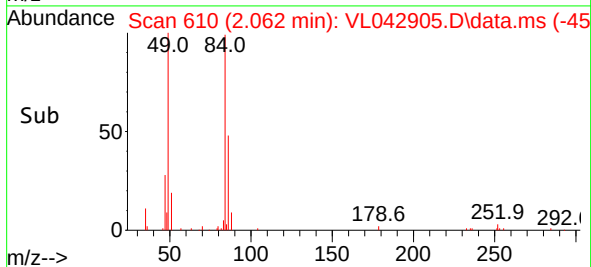
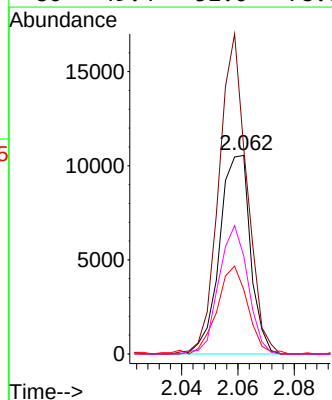
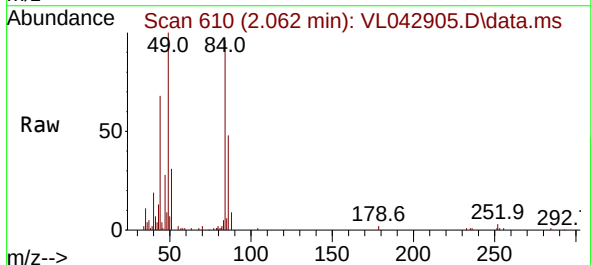
Manual Integrations  
APPROVED

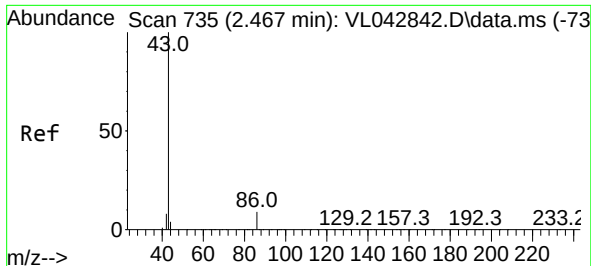
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#20  
Methylene Chloride  
Concen: 1.028 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

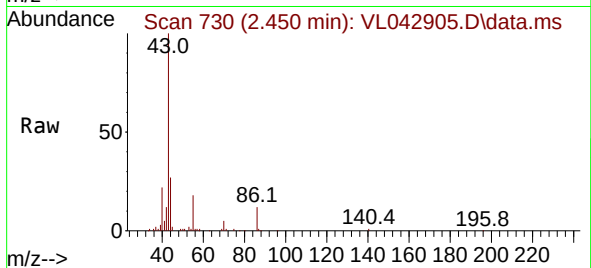
Tgt Ion: 84 Resp: 8047  
Ion Ratio Lower Upper  
84 100  
49 102.7 112.3 168.5#  
51 30.7 36.0 54.0#  
86 49.4 52.0 78.0#





#23  
 Vinyl Acetate  
 Concen: 0.738 ppbv m  
 RT: 2.450 min Scan# 71  
 Delta R.T. -0.003 min  
 Lab File: VL042905.D  
 Acq: 08 Sep 2025 15:59

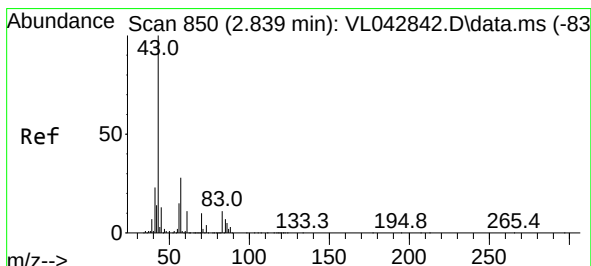
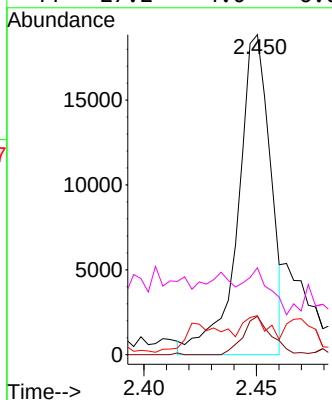
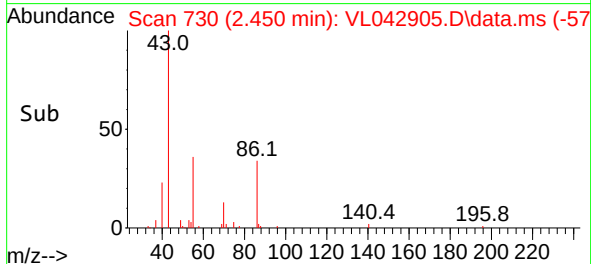
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DUP



|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 18950 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 86 12.0     | 6.6 9.8     |
| 42 12.2     | 7.0 10.6    |
| 44 27.2     | 4.0 6.0     |

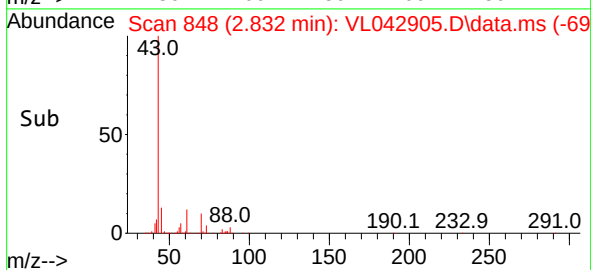
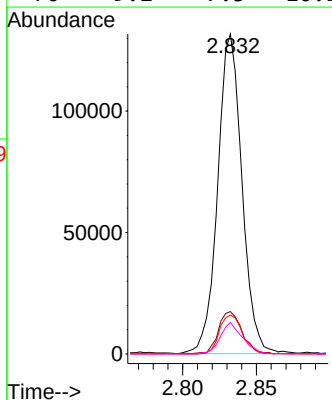
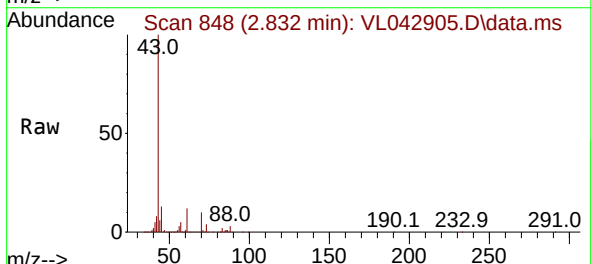
Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025

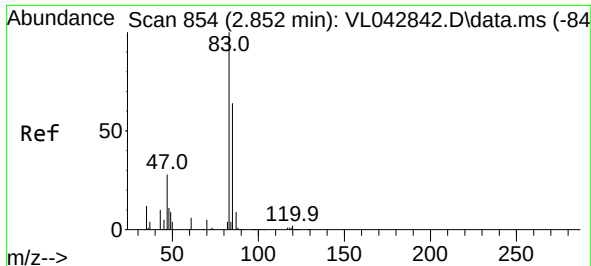


#25  
 Ethyl Acetate  
 Concen: 3.329 ppbv  
 RT: 2.832 min Scan# 848  
 Delta R.T. 0.006 min  
 Lab File: VL042905.D  
 Acq: 08 Sep 2025 15:59

|     |         |       |        |
|-----|---------|-------|--------|
| Tgt | Ion: 43 | Resp: | 150520 |
| Ion | Ratio   | Lower | Upper  |
| 43  | 100     |       |        |
| 45  | 12.7    | 8.1   | 12.1#  |
| 61  | 11.7    | 7.4   | 11.2#  |
| 70  | 9.2     | 7.3   | 10.9   |







#29

Chloroform

Concen: 0.276 ppbv

RT: 2.845 min Scan# 8

Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA\_L

ClientSampleId :

IA-2DUP

Tgt Ion: 83 Resp: 821

Ion Ratio Lower Upper

83 100

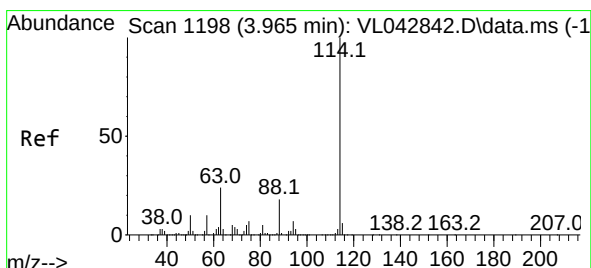
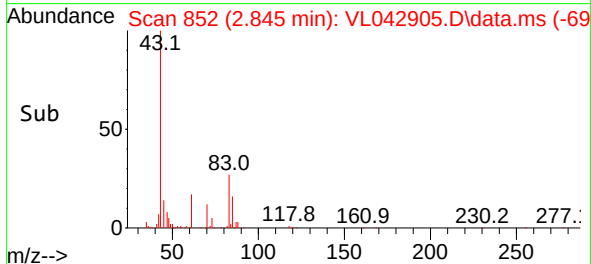
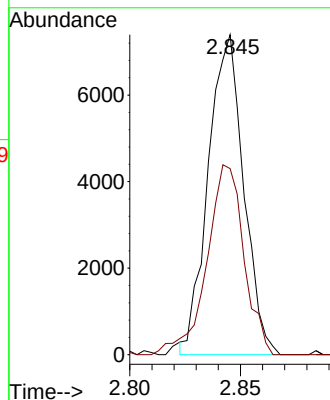
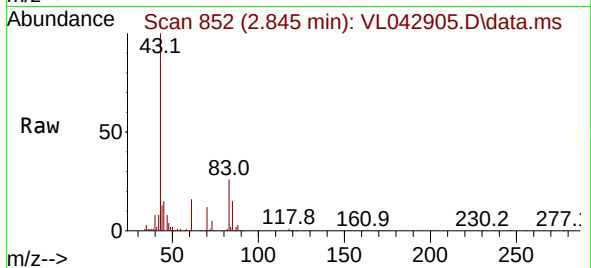
85 58.1 51.1 76.7

Manual Integrations

APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025

Supervised By :Mahesh Dadoda 09/11/2025



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

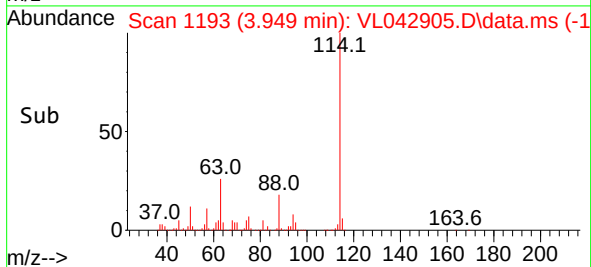
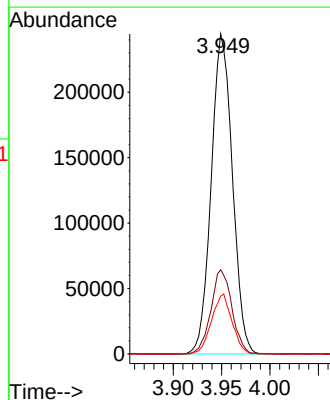
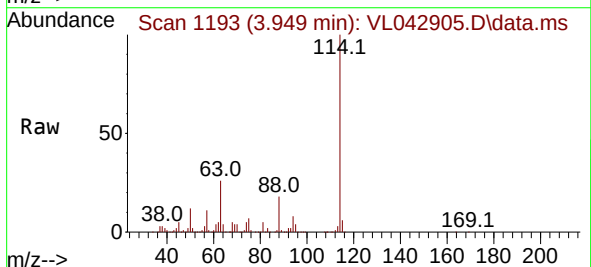
Tgt Ion:114 Resp: 372044

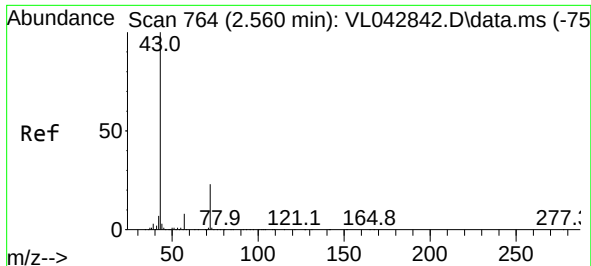
Ion Ratio Lower Upper

114 100

63 26.1 19.7 29.5

88 18.1 14.4 21.6





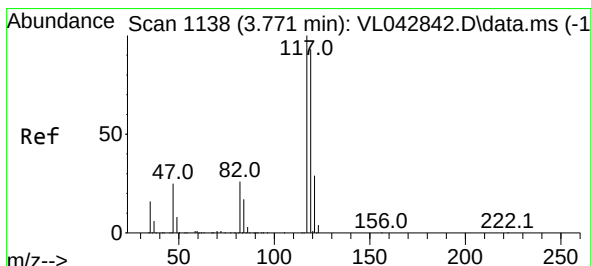
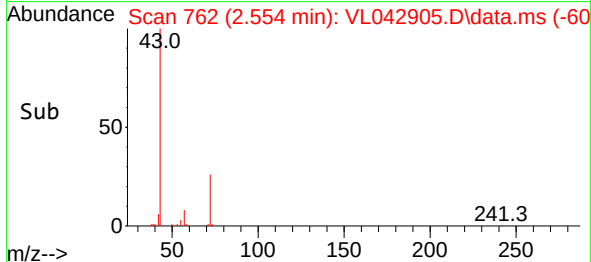
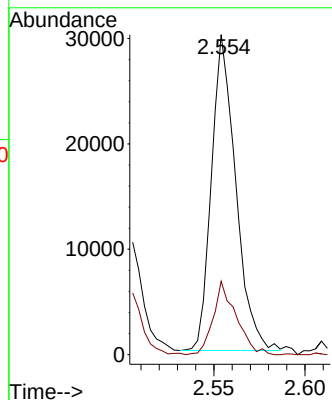
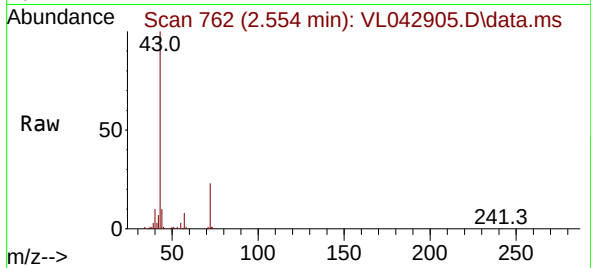
#34  
2-Butanone  
Concen: 1.102 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

Tgt Ion: 43 Resp: 27690  
Ion Ratio Lower Upper  
43 100  
72 21.9 18.6 28.0

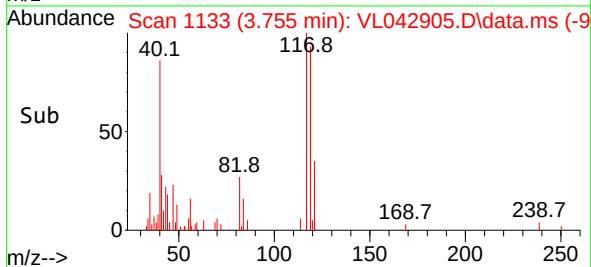
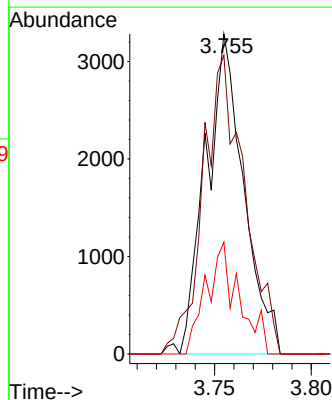
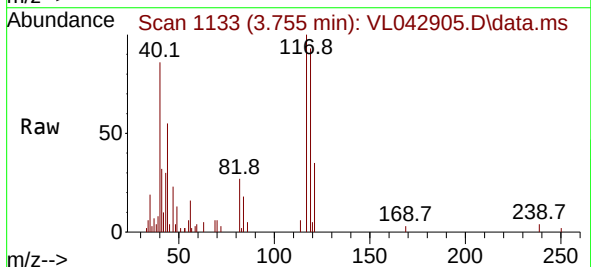
Manual Integrations  
APPROVED

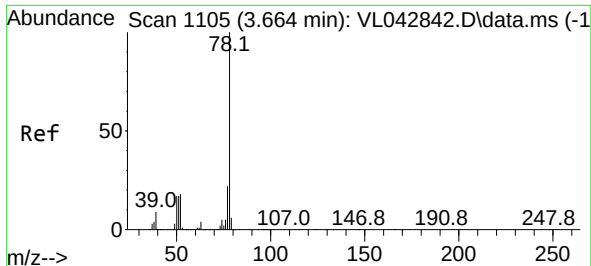
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#35  
Carbon Tetrachloride  
Concen: 0.174 ppbv  
RT: 3.755 min Scan# 1133  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

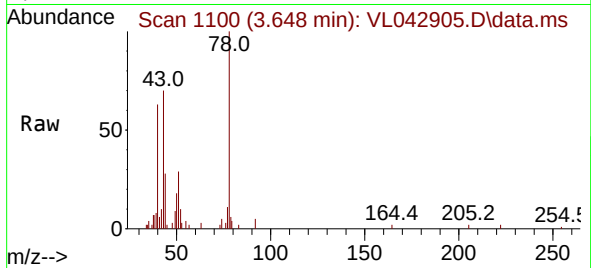
Tgt Ion:117 Resp: 4459  
Ion Ratio Lower Upper  
117 100  
119 93.4 74.7 112.1  
121 34.9 23.2 34.8#





#36  
Benzene  
Concen: 0.126 ppbv m  
RT: 3.648 min Scan# 1105  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

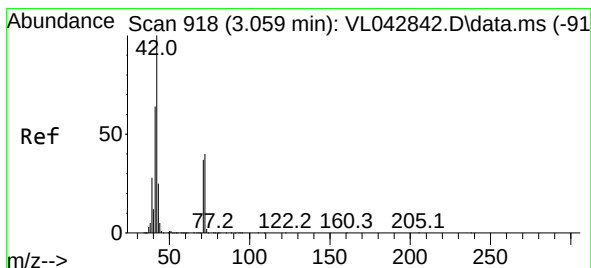
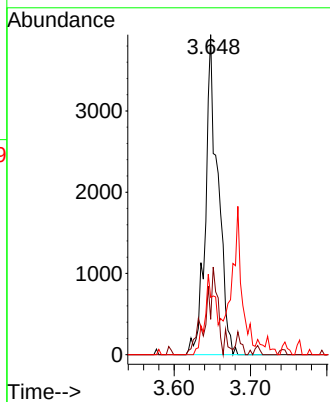
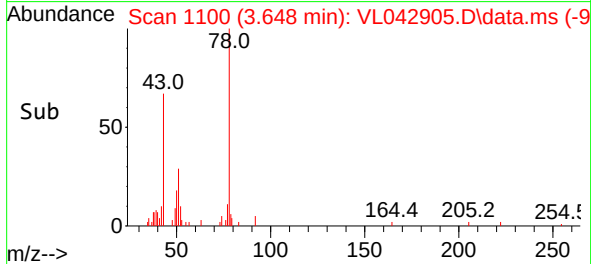
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP



Tgt Ion: 78 Resp: 449  
Ion Ratio Lower Upper  
78 100  
77 11.0 17.7 26.5  
50 17.9 13.9 20.9

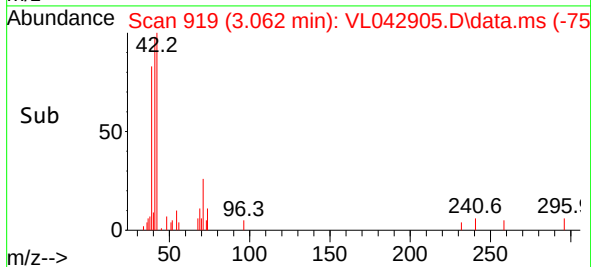
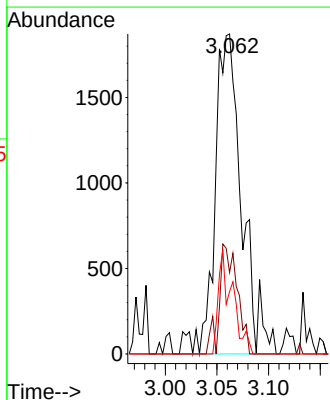
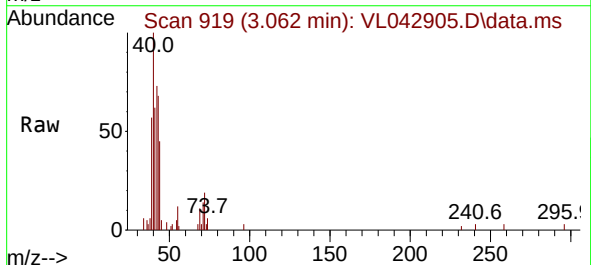
Manual Integrations  
APPROVED

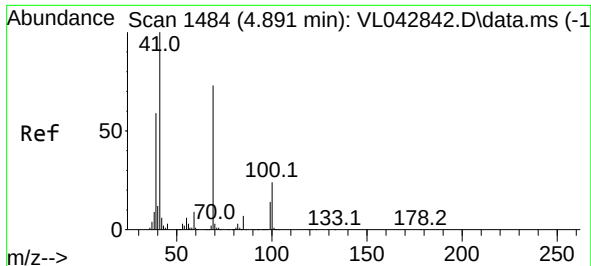
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#41  
Tetrahydrofuran  
Concen: 0.241 ppbv m  
RT: 3.062 min Scan# 919  
Delta R.T. 0.019 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

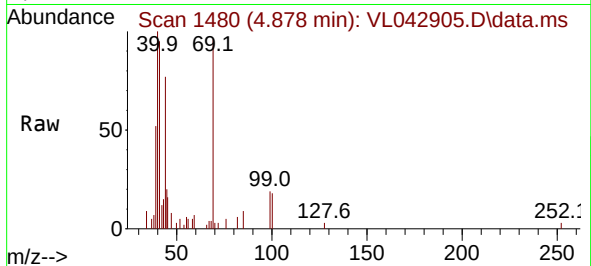
Tgt Ion: 42 Resp: 3374  
Ion Ratio Lower Upper  
42 100  
72 22.9 32.6 48.8#  
71 17.3 30.0 45.0#





#43  
Methyl Methacrylate  
Concen: 0.276 ppbv m  
RT: 4.878 min Scan# 1484  
Delta R.T. 0.019 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

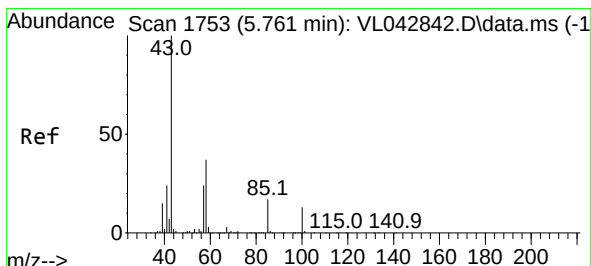
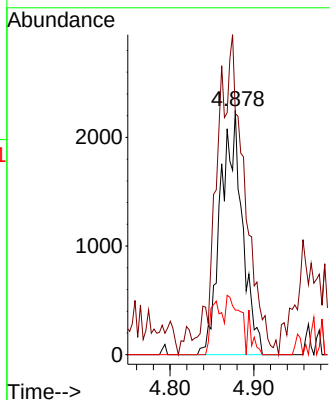
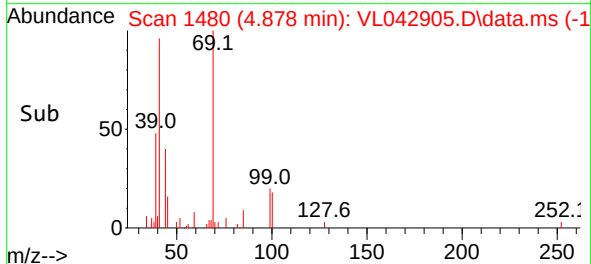
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP



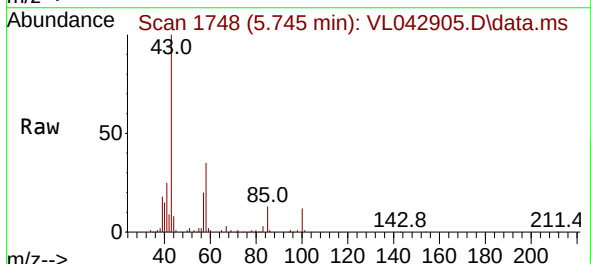
Tgt Ion: 69 Resp: 405  
Ion Ratio Lower Upper  
69 100  
41 0.0 114.6 172.0  
100 30.9 30.2 45.4

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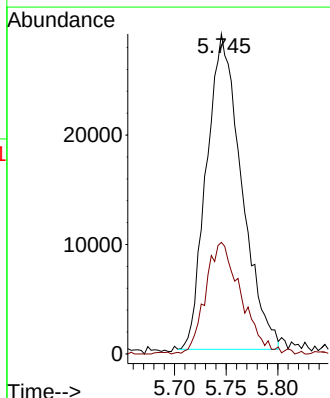
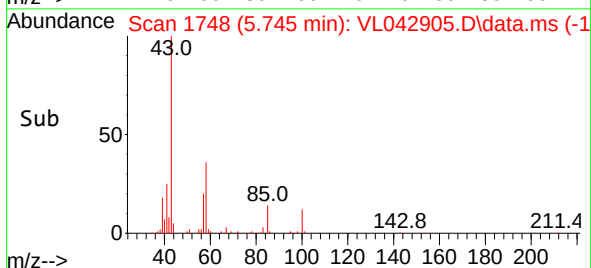
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025

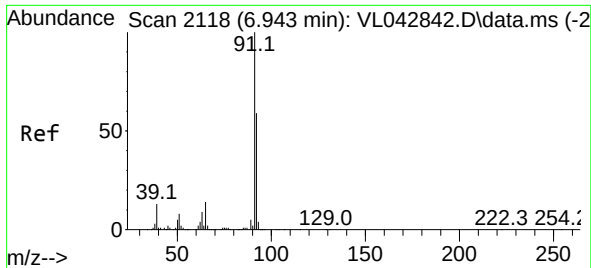


#50  
4-Methyl-2-Pentanone  
Concen: 2.005 ppbv  
RT: 5.745 min Scan# 1748  
Delta R.T. 0.016 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59



Tgt Ion: 43 Resp: 68077  
Ion Ratio Lower Upper  
43 100  
58 36.5 29.8 44.8





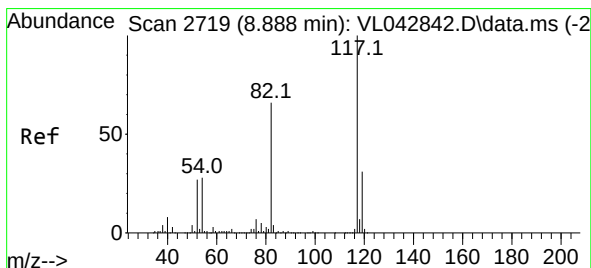
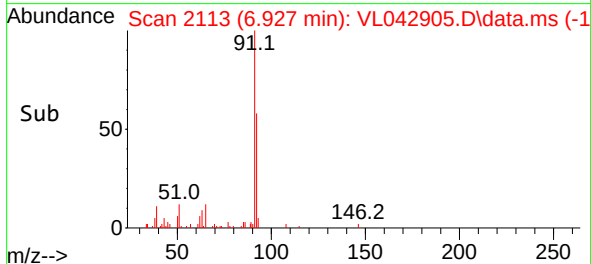
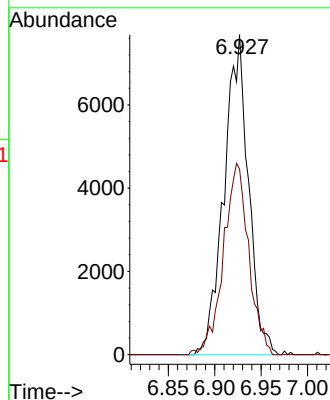
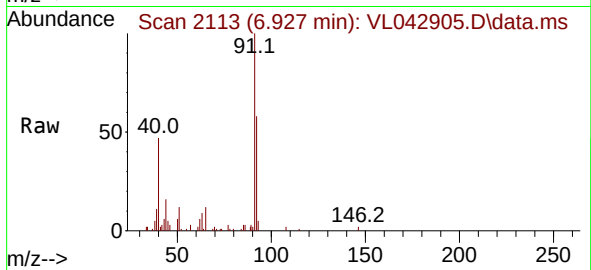
#53  
Toluene  
Concen: 0.332 ppbv m  
RT: 6.927 min Scan# 2113  
Delta R.T. 0.013 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

Tgt Ion: 91 Resp: 1404  
Ion Ratio Lower Upper  
91 100  
92 61.8 47.8 71.6

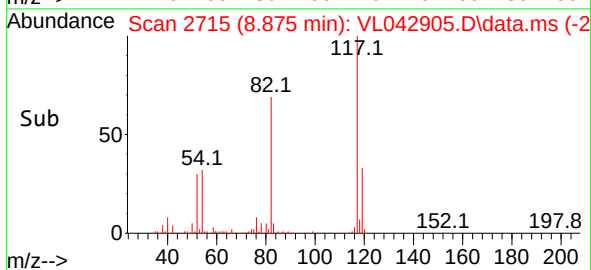
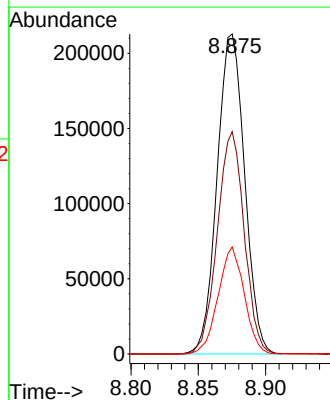
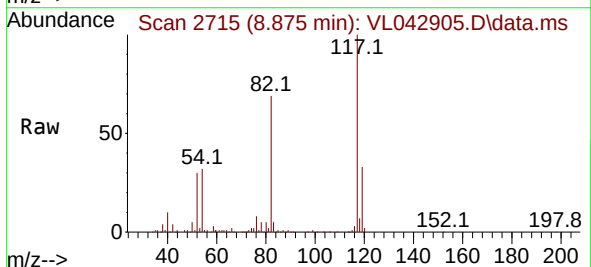
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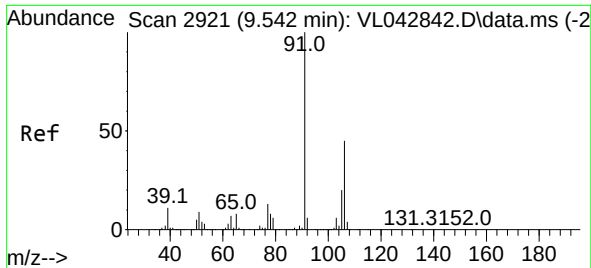
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.875 min Scan# 2715  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion:117 Resp: 303028  
Ion Ratio Lower Upper  
117 100  
82 67.9 54.6 81.8  
119 31.7 25.9 38.9





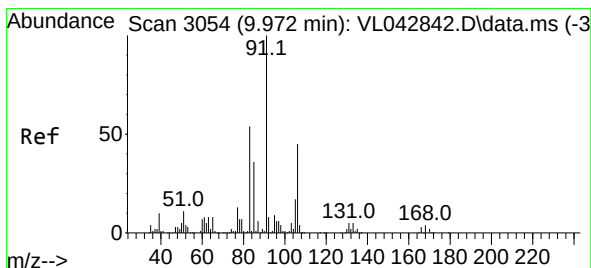
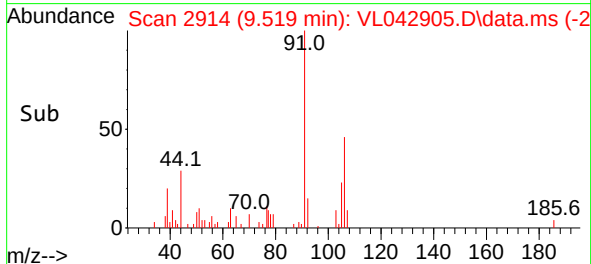
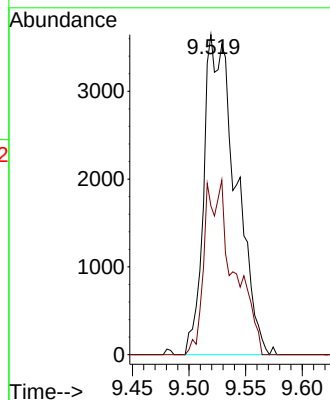
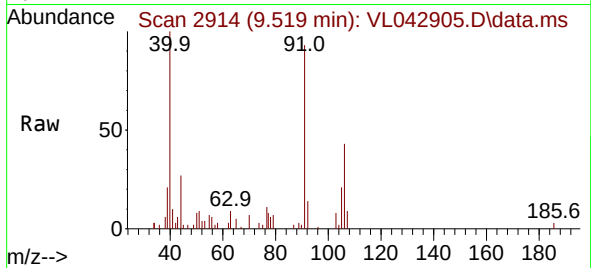
#59  
m/p-Xylene  
Concen: 0.171 ppbv m  
RT: 9.519 min Scan# 2914  
Delta R.T. -0.019 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

Tgt Ion: 91 Resp: 717  
Ion Ratio Lower Upper  
91 100  
106 0.0 0.0 0.0

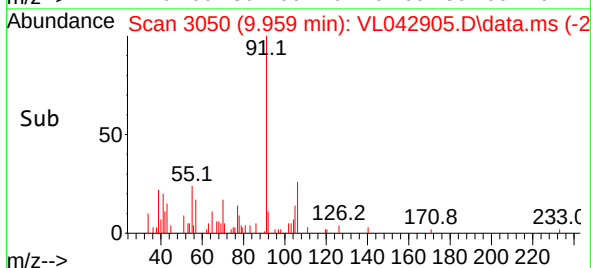
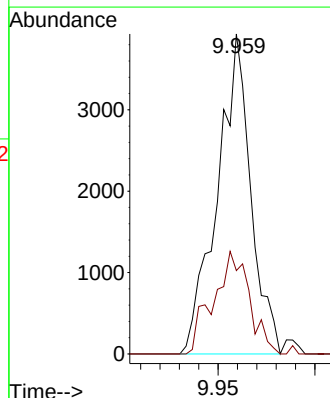
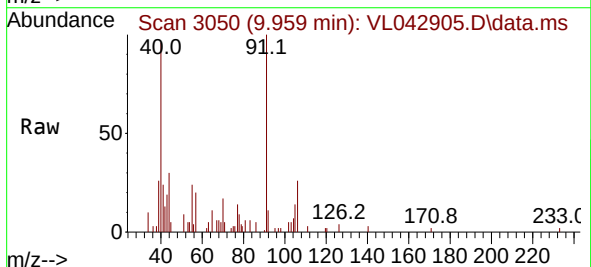
Manual Integrations  
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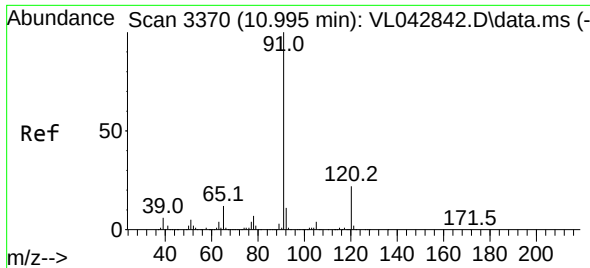
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#60  
o-Xylene  
Concen: 0.112 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 91 Resp: 4723  
Ion Ratio Lower Upper  
91 100  
106 35.0 21.8 65.4





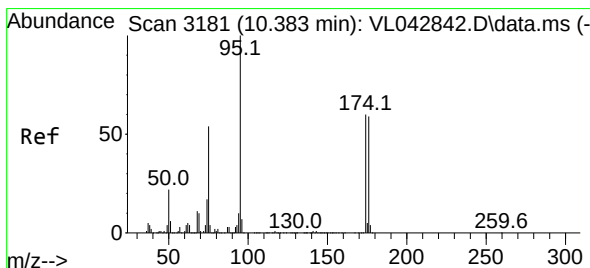
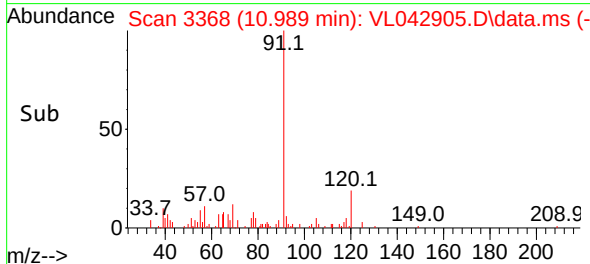
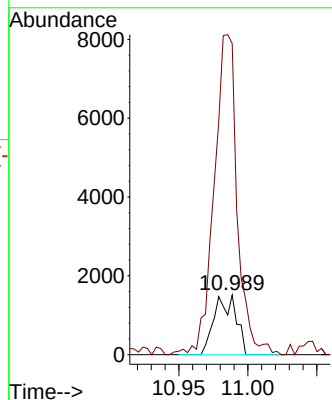
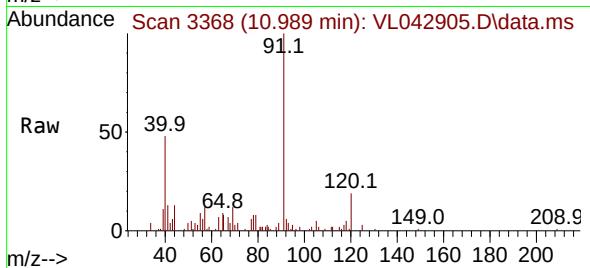
#64  
n-propylbenzene  
Concen: 0.105 ppbv m  
RT: 10.989 min Scan# 3177  
Delta R.T. 0.010 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

Tgt Ion:120 Resp: 165  
Ion Ratio Lower Upper  
120 100  
91 573.7 375.8 563.6

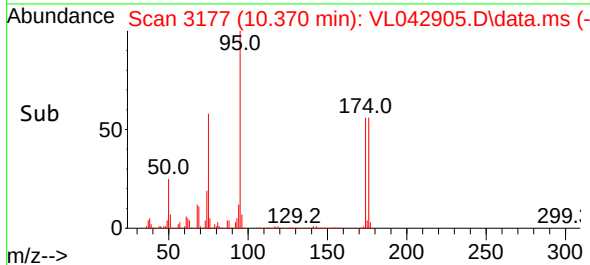
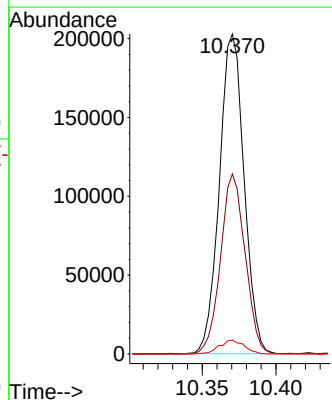
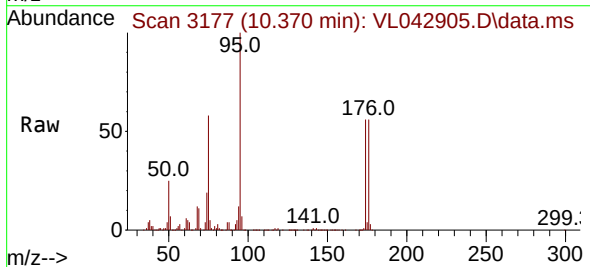
Manual Integrations  
APPROVED

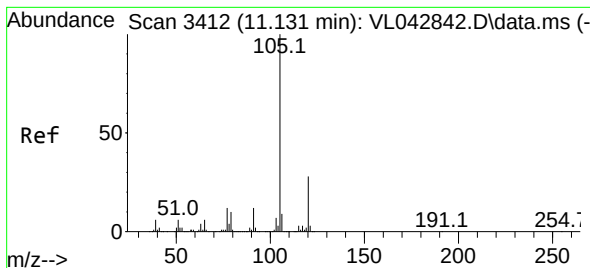
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.380 ppbv  
RT: 10.370 min Scan# 3177  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

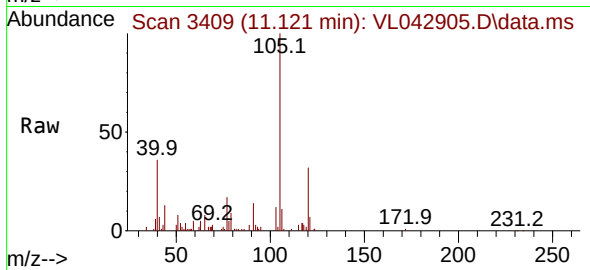
Tgt Ion: 95 Resp: 235889  
Ion Ratio Lower Upper  
95 100  
174 56.1 48.4 72.6  
175 4.4 3.8 5.8





#72  
4-Ethyltoluene  
Concen: 0.248 ppbv  
RT: 11.121 min Scan# 3412  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

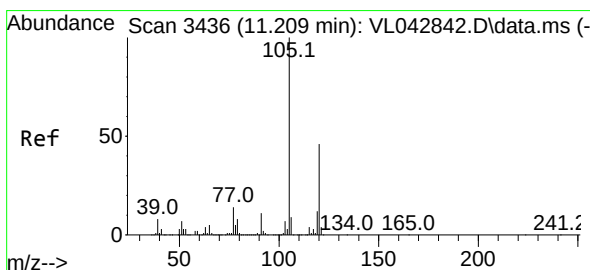
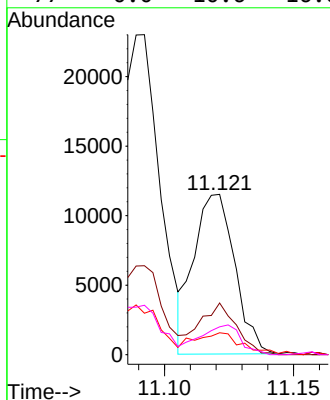
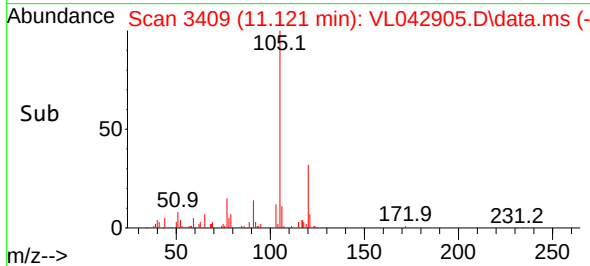
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP



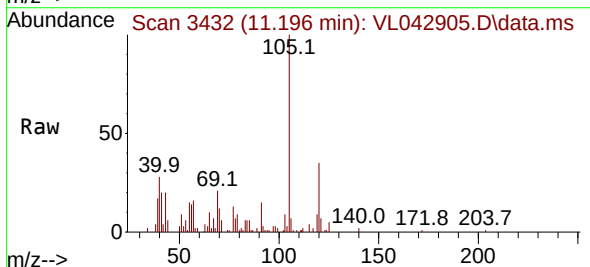
Tgt Ion:105 Resp: 1269  
Ion Ratio Lower Upper  
105 100  
120 0.0 23.4 35.2  
91 0.0 9.8 14.6  
77 0.0 10.6 16.0#

Manual Integrations  
APPROVED

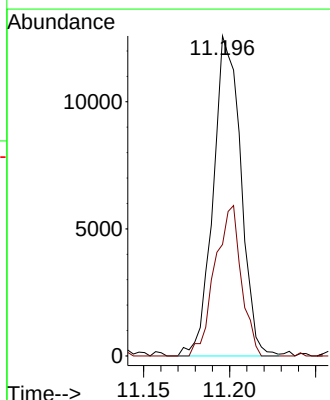
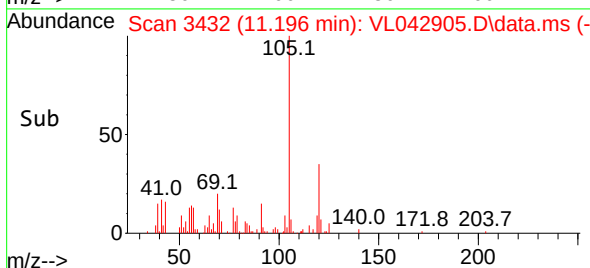
Reviewed By :Semsettin Yesilyurt 09/09/2025  
Supervised By :Mahesh Dadoda 09/11/2025



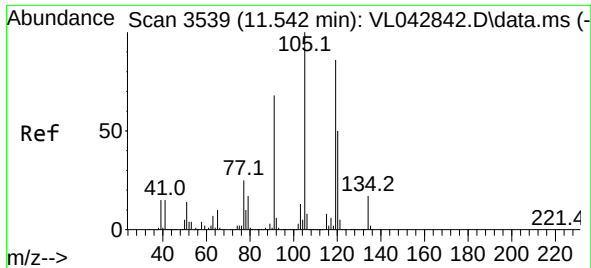
#73  
1,3,5-Trimethylbenzene  
Concen: 0.324 ppbv  
RT: 11.196 min Scan# 3432  
Delta R.T. -0.000 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59



Tgt Ion:105 Resp: 14080  
Ion Ratio Lower Upper  
105 100  
120 34.8 36.6 54.8#

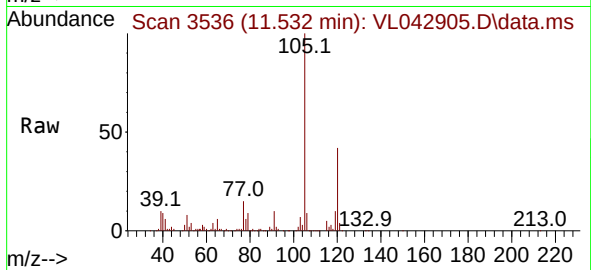






#74  
 1,2,4-Trimethylbenzene  
 Concen: 1.124 ppbv  
 RT: 11.532 min Scan# 3536  
 Delta R.T. 0.003 min  
 Lab File: VL042905.D  
 Acq: 08 Sep 2025 15:59

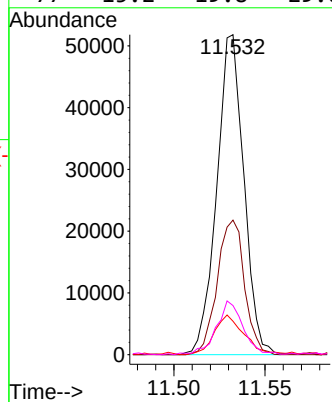
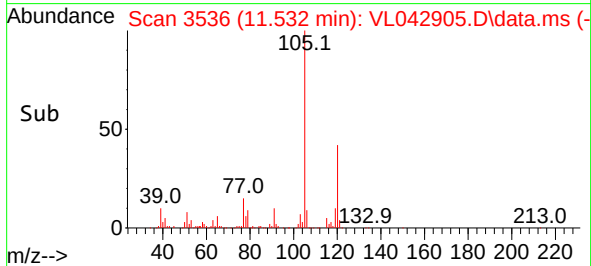
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DUP



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 53630 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 42.0  | 39.8  | 59.6  |
| 91        | 10.5  | 54.2  | 81.4  |
| 77        | 15.2  | 19.8  | 29.6  |

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 09/09/2025  
 Supervised By :Mahesh Dadoda 09/11/2025



## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL081325 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter               | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|-------------|------------|-------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDICCC010 | VL042842.D | m/p-Xylene              | SAM       | 8/14/2025 7:48:06 AM | MMDadoda      | 8/18/2025 8:42:07 AM | Peak Integrated by Software |
| VSTDICCC002 | VL042843.D | 1,1,2-Trichloroethane   | SAM       | 8/14/2025 7:48:12 AM | MMDadoda      | 8/18/2025 8:42:11 AM | Peak Integrated by Software |
| VSTDICCC002 | VL042843.D | 1,4-Dioxane             | SAM       | 8/14/2025 7:48:12 AM | MMDadoda      | 8/18/2025 8:42:11 AM | Peak Integrated by Software |
| VSTDICCC002 | VL042843.D | cis-1,3-Dichloropropene | SAM       | 8/14/2025 7:48:12 AM | MMDadoda      | 8/18/2025 8:42:11 AM | Peak Integrated by Software |
| VSTDICCC002 | VL042843.D | Ethanol                 | SAM       | 8/14/2025 7:48:12 AM | MMDadoda      | 8/18/2025 8:42:11 AM | Peak Integrated by Software |
| VSTDICCC002 | VL042843.D | m/p-Xylene              | SAM       | 8/14/2025 7:48:12 AM | MMDadoda      | 8/18/2025 8:42:11 AM | Peak Integrated by Software |
| VSTDICCC002 | VL042843.D | Methyl Methacrylate     | SAM       | 8/14/2025 7:48:12 AM | MMDadoda      | 8/18/2025 8:42:11 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042844.D | 1,2-Dichloropropane     | SAM       | 8/14/2025 7:48:18 AM | MMDadoda      | 8/18/2025 8:42:13 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042844.D | 1,4-Dioxane             | SAM       | 8/14/2025 7:48:18 AM | MMDadoda      | 8/18/2025 8:42:13 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042844.D | 2,2,4-Trimethylpentane  | SAM       | 8/14/2025 7:48:18 AM | MMDadoda      | 8/18/2025 8:42:13 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042844.D | Ethanol                 | SAM       | 8/14/2025 7:48:18 AM | MMDadoda      | 8/18/2025 8:42:13 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042844.D | Heptane                 | SAM       | 8/14/2025 7:48:18 AM | MMDadoda      | 8/18/2025 8:42:13 AM | Peak Integrated by Software |
| VSTDICCC001 | VL042844.D | m/p-Xylene              | SAM       | 8/14/2025 7:48:18 AM | MMDadoda      | 8/18/2025 8:42:13 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL081325 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID  | File ID    | Parameter                | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|------------|------------|--------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDICC001 | VL042844.D | Methyl Methacrylate      | SAM       | 8/14/2025 7:48:18 AM | MMDadoda      | 8/18/2025 8:42:13 AM | Peak Integrated by Software |
| VSTDICC001 | VL042844.D | t-1,3-Dichloropropene    | SAM       | 8/14/2025 7:48:18 AM | MMDadoda      | 8/18/2025 8:42:13 AM | Peak Integrated by Software |
| VSTDICC001 | VL042844.D | trans-1,2-Dichloroethene | SAM       | 8/14/2025 7:48:18 AM | MMDadoda      | 8/18/2025 8:42:13 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042845.D | 1,1,2-Trichloroethane    | SAM       | 8/14/2025 7:49:25 AM | MMDadoda      | 8/18/2025 8:42:16 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042845.D | 1,4-Dioxane              | SAM       | 8/14/2025 7:49:25 AM | MMDadoda      | 8/18/2025 8:42:16 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042845.D | 2,2,4-Trimethylpentane   | SAM       | 8/14/2025 7:49:25 AM | MMDadoda      | 8/18/2025 8:42:16 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042845.D | 4-Methyl-2-Pentanone     | SAM       | 8/14/2025 7:49:25 AM | MMDadoda      | 8/18/2025 8:42:16 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042845.D | cis-1,3-Dichloropropene  | SAM       | 8/14/2025 7:49:25 AM | MMDadoda      | 8/18/2025 8:42:16 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042845.D | m/p-Xylene               | SAM       | 8/14/2025 7:49:25 AM | MMDadoda      | 8/18/2025 8:42:16 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042845.D | Methyl Methacrylate      | SAM       | 8/14/2025 7:49:25 AM | MMDadoda      | 8/18/2025 8:42:16 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042845.D | t-1,3-Dichloropropene    | SAM       | 8/14/2025 7:49:25 AM | MMDadoda      | 8/18/2025 8:42:16 AM | Peak Integrated by Software |
| VSTDICC0.5 | VL042845.D | Toluene                  | SAM       | 8/14/2025 7:49:25 AM | MMDadoda      | 8/18/2025 8:42:16 AM | Peak Integrated by Software |
| VSTDICC0.1 | VL042846.D | 1,1,1-Trichloroethane    | SAM       | 8/14/2025 7:48:23 AM | MMDadoda      | 8/18/2025 8:42:18 AM | Peak Integrated by Software |

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL081325 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID  | File ID    | Parameter                 | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|------------|------------|---------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDIC0.1  | VL042846.D | 1,2-Dibromoethane         | SAM       | 8/14/2025 7:48:23 AM | MMDadoda      | 8/18/2025 8:42:18 AM | Peak Integrated by Software |
| VSTDIC0.1  | VL042846.D | Naphthalene               | SAM       | 8/14/2025 7:48:23 AM | MMDadoda      | 8/18/2025 8:42:18 AM | Peak Integrated by Software |
| VSTDIC0.1  | VL042846.D | Tetrachloroethene         | SAM       | 8/14/2025 7:48:23 AM | MMDadoda      | 8/18/2025 8:42:18 AM | Peak Integrated by Software |
| VSTDIC0.1  | VL042846.D | Trichloroethene           | SAM       | 8/14/2025 7:48:23 AM | MMDadoda      | 8/18/2025 8:42:18 AM | Peak Integrated by Software |
| VSTDIC0.03 | VL042847.D | 1,1,1-Trichloroethane     | SAM       | 8/14/2025 7:49:29 AM | MMDadoda      | 8/18/2025 8:42:20 AM | Peak Integrated by Software |
| VSTDIC0.03 | VL042847.D | 1,1,2,2-Tetrachloroethane | SAM       | 8/14/2025 7:49:29 AM | MMDadoda      | 8/18/2025 8:42:20 AM | Peak Integrated by Software |
| VSTDIC0.03 | VL042847.D | Carbon Tetrachloride      | SAM       | 8/14/2025 7:49:29 AM | MMDadoda      | 8/18/2025 8:42:20 AM | Peak Integrated by Software |
| VSTDIC0.03 | VL042847.D | Tetrachloroethene         | SAM       | 8/14/2025 7:49:29 AM | MMDadoda      | 8/18/2025 8:42:20 AM | Peak Integrated by Software |
| VSTDIC0.03 | VL042847.D | Trichloroethene           | SAM       | 8/14/2025 7:49:29 AM | MMDadoda      | 8/18/2025 8:42:20 AM | Peak Integrated by Software |
| VSTDIC015  | VL042848.D | m/p-Xylene                | SAM       | 8/14/2025 7:49:35 AM | MMDadoda      | 8/18/2025 8:42:35 AM | Peak Integrated by Software |
| VSTDICV010 | VL042849.D | cis-1,3-Dichloropropene   | SAM       | 8/14/2025 7:48:28 AM | MMDadoda      | 8/18/2025 8:42:37 AM | Peak Integrated by Software |
| VSTDICV010 | VL042849.D | m/p-Xylene                | SAM       | 8/14/2025 7:48:28 AM | MMDadoda      | 8/18/2025 8:42:37 AM | Peak Integrated by Software |
| VSTDCCC010 | VL042864.D | m/p-Xylene                | SAM       | 8/14/2025 7:47:54 AM | MMDadoda      | 8/18/2025 8:43:18 AM | Peak Integrated by Software |



Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | VL081325 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

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

## Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | vl090825 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

| Sample ID   | File ID    | Parameter              | Review By | Review On            | Supervised By | Supervised On        | Reason                      |
|-------------|------------|------------------------|-----------|----------------------|---------------|----------------------|-----------------------------|
| VSTDCCC010  | VL042900.D | m/p-Xylene             | sam       | 9/9/2025 12:26:34 PM | MMDadoda      | 9/11/2025 5:28:20 PM | Peak Integrated by Software |
| VL0908ABS01 | VL042902.D | m/p-Xylene             | sam       | 9/9/2025 12:26:38 PM | MMDadoda      | 9/11/2025 5:24:29 PM | Peak Integrated by Software |
| VL0908ABS01 | VL042902.D | Propene                | sam       | 9/9/2025 12:26:38 PM | MMDadoda      | 9/11/2025 5:24:29 PM | Peak Integrated by Software |
| Q3037-01DUP | VL042905.D | Benzene                | sam       | 9/9/2025 12:31:10 PM | MMDadoda      | 9/11/2025 5:28:16 PM | Peak Integrated by Software |
| Q3037-01DUP | VL042905.D | m/p-Xylene             | sam       | 9/9/2025 12:31:10 PM | MMDadoda      | 9/11/2025 5:28:16 PM | Peak Integrated by Software |
| Q3037-01DUP | VL042905.D | Methyl Methacrylate    | sam       | 9/9/2025 12:31:10 PM | MMDadoda      | 9/11/2025 5:28:16 PM | Peak Integrated by Software |
| Q3037-01DUP | VL042905.D | n-propylbenzene        | sam       | 9/9/2025 12:31:10 PM | MMDadoda      | 9/11/2025 5:28:16 PM | Peak Integrated by Software |
| Q3037-01DUP | VL042905.D | Propene                | sam       | 9/9/2025 12:31:10 PM | MMDadoda      | 9/11/2025 5:28:16 PM | Peak Integrated by Software |
| Q3037-01DUP | VL042905.D | Tetrahydrofuran        | sam       | 9/9/2025 12:31:10 PM | MMDadoda      | 9/11/2025 5:28:16 PM | Peak Integrated by Software |
| Q3037-01DUP | VL042905.D | Toluene                | sam       | 9/9/2025 12:31:10 PM | MMDadoda      | 9/11/2025 5:28:16 PM | Peak Integrated by Software |
| Q3037-01DUP | VL042905.D | Trichlorofluoromethane | sam       | 9/9/2025 12:31:10 PM | MMDadoda      | 9/11/2025 5:28:16 PM | Peak Integrated by Software |
| Q3037-01DUP | VL042905.D | Vinyl Acetate          | sam       | 9/9/2025 12:31:10 PM | MMDadoda      | 9/11/2025 5:28:16 PM | Peak Integrated by Software |
| Q3038-01    | VL042906.D | Trichloroethene        | sam       | 9/9/2025 12:31:51 PM | MMDadoda      | 9/11/2025 5:25:29 PM | Peak Integrated by Software |



Manual Integration Report

|           |          |            |         |
|-----------|----------|------------|---------|
| Sequence: | vi090825 | Instrument | MSVOA_I |
|-----------|----------|------------|---------|

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

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL081325**

|                          |                     |                      |                      |                      |               |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Review By                | Semsettin Yesilyurt | Review On            | 8/14/2025 7:50:07 AM |                      |               |
| Supervise By             | Maresh Dadoda       | Supervise On         | 8/18/2025 8:43:31 AM |                      |               |
| SubDirectory             | VL081325            | HP Acquire Method    | TO15AIR.M            | HP Processing Method | VL081325AIR.M |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |
| Tune/Reschk              |                     | AP2655               |                      |                      |               |
| Initial Calibration Stds |                     | AP2650,AP2652,AP2653 |                      |                      |               |
| CCC                      |                     | AP2650               |                      |                      |               |
| Internal Standard/PEM    |                     | AP2655               |                      |                      |               |
| ICV/I.BLK                |                     | AP2654               |                      |                      |               |
| Surrogate Standard       |                     |                      |                      |                      |               |
| MS/MSD Standard          |                     |                      |                      |                      |               |
| LCS Standard             |                     |                      |                      |                      |               |

| Sr # | Sampleld             | Data File Name | Date-Time         | Operator | Status   |
|------|----------------------|----------------|-------------------|----------|----------|
| 1    | BFB                  | VL042841.D     | 13 Aug 2025 07:45 | SY/MD    | Ok       |
| 2    | VSTDICCC010          | VL042842.D     | 13 Aug 2025 08:30 | SY/MD    | Ok,M     |
| 3    | VSTDICCC002          | VL042843.D     | 13 Aug 2025 09:06 | SY/MD    | Ok,M     |
| 4    | VSTDICCC001          | VL042844.D     | 13 Aug 2025 09:41 | SY/MD    | Ok,M     |
| 5    | VSTDICCC0.5          | VL042845.D     | 13 Aug 2025 10:17 | SY/MD    | Ok,M     |
| 6    | VSTDICCC0.1          | VL042846.D     | 13 Aug 2025 10:53 | SY/MD    | Ok,M     |
| 7    | VSTDICCC0.03         | VL042847.D     | 13 Aug 2025 11:30 | SY/MD    | Ok,M     |
| 8    | VSTDICCC015          | VL042848.D     | 13 Aug 2025 12:06 | SY/MD    | Ok,M     |
| 9    | VSTDICV010           | VL042849.D     | 13 Aug 2025 12:56 | SY/MD    | Ok,M     |
| 10   | VL0813ABL01          | VL042850.D     | 13 Aug 2025 13:46 | SY/MD    | Ok       |
| 11   | VL0813ABS01          | VL042851.D     | 13 Aug 2025 14:32 | SY/MD    | Ok,M     |
| 12   | Q2727-01DL2          | VL042852.D     | 13 Aug 2025 15:10 | SY/MD    | Ok       |
| 13   | Q2126-14 0.1 PPB LOQ | VL042853.D     | 13 Aug 2025 15:49 | SY/MD    | Ok,M     |
| 14   | QC080725 CAN10282    | VL042854.D     | 13 Aug 2025 16:27 | SY/MD    | Ok       |
| 15   | Q2794-01             | VL042855.D     | 13 Aug 2025 17:05 | SY/MD    | Dilution |
| 16   | Q2794-01DUP          | VL042856.D     | 13 Aug 2025 17:43 | SY/MD    | Ok,M     |
| 17   | Q2794-01DL           | VL042857.D     | 13 Aug 2025 18:21 | SY/MD    | Ok,M     |
| 18   | Q2794-02             | VL042858.D     | 13 Aug 2025 18:58 | SY/MD    | Ok,M     |
| 19   | Q2794-02DL           | VL042859.D     | 13 Aug 2025 19:35 | SY/MD    | Not Ok   |
| 20   | QC081125 CAN 10280   | VL042860.D     | 13 Aug 2025 20:12 | SY/MD    | Ok       |
| 21   | Q2834-01             | VL042861.D     | 13 Aug 2025 20:49 | SY/MD    | Ok,M     |



Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL081325**

| Review By                | Semsettin Yesilyurt  | Review On         | 8/14/2025 7:50:07 AM |                      |               |
|--------------------------|----------------------|-------------------|----------------------|----------------------|---------------|
| Supervise By             | Mahesh Dadoda        | Supervise On      | 8/18/2025 8:43:31 AM |                      |               |
| SubDirectory             | VL081325             | HP Acquire Method | TO15AIR.M            | HP Processing Method | VL081325AIR.M |
| STD. NAME                |                      | STD REF.#         |                      |                      |               |
| Tune/Reschk              | AP2655               |                   |                      |                      |               |
| Initial Calibration Stds | AP2650,AP2652,AP2653 |                   |                      |                      |               |
| CCC                      | AP2650               |                   |                      |                      |               |
| Internal Standard/PEM    | AP2655               |                   |                      |                      |               |
| ICV/I.BLK                | AP2654               |                   |                      |                      |               |
| Surrogate Standard       |                      |                   |                      |                      |               |
| MS/MSD Standard          |                      |                   |                      |                      |               |
| LCS Standard             |                      |                   |                      |                      |               |

|    |            |            |                   |       |        |
|----|------------|------------|-------------------|-------|--------|
| 22 | Q2834-02   | VL042862.D | 13 Aug 2025 21:26 | SY/MD | Ok,M   |
| 23 | Q2834-02DL | VL042863.D | 13 Aug 2025 22:02 | SY/MD | Not Ok |
| 24 | VSTDCCC010 | VL042864.D | 13 Aug 2025 22:39 | SY/MD | Ok,M   |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL090825**

|                          |                     |                      |                      |                      |               |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Review By                | Mahesh Dadoda       | Review On            | 9/11/2025 5:29:46 PM |                      |               |
| Supervise By             | Semsettin Yesilyurt | Supervise On         | 9/18/2025 6:48:50 AM |                      |               |
| SubDirectory             | VL090825            | HP Acquire Method    | TO15AIR              | HP Processing Method | VL081325AIR.M |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |
| Tune/Reschk              |                     | AP2655               |                      |                      |               |
| Initial Calibration Stds |                     | AP2650,AP2652,AP2653 |                      |                      |               |
| CCC                      |                     | AP2650               |                      |                      |               |
| Internal Standard/PEM    |                     | AP2655               |                      |                      |               |
| ICV/I.BLK                |                     | AP2654               |                      |                      |               |
| Surrogate Standard       |                     |                      |                      |                      |               |
| MS/MSD Standard          |                     |                      |                      |                      |               |
| LCS Standard             |                     |                      |                      |                      |               |

| Sr # | SampleId           | Data File Name | Date-Time         | Operator | Status   |
|------|--------------------|----------------|-------------------|----------|----------|
| 1    | BFB                | VL042899.D     | 08 Sep 2025 08:41 | SY/MD    | Ok       |
| 2    | VSTDCCC010         | VL042900.D     | 08 Sep 2025 11:05 | SY/MD    | Ok,M     |
| 3    | VL0908ABL01        | VL042901.D     | 08 Sep 2025 11:55 | SY/MD    | Ok       |
| 4    | VL0908ABS01        | VL042902.D     | 08 Sep 2025 13:35 | SY/MD    | Ok,M     |
| 5    | Q3038-01           | VL042903.D     | 08 Sep 2025 14:19 | SY/MD    | Not Ok   |
| 6    | Q3037-01           | VL042904.D     | 08 Sep 2025 15:15 | SY/MD    | Ok,M     |
| 7    | Q3037-01DUP        | VL042905.D     | 08 Sep 2025 15:59 | SY/MD    | Ok,M     |
| 8    | Q3038-01           | VL042906.D     | 08 Sep 2025 16:33 | SY/MD    | Ok,M     |
| 9    | QC090425 CAN 10158 | VL042907.D     | 08 Sep 2025 17:09 | SY/MD    | Ok       |
| 10   | Q3052-03           | VL042908.D     | 08 Sep 2025 17:45 | SY/MD    | Dilution |
| 11   | Q3052-04           | VL042909.D     | 08 Sep 2025 18:21 | SY/MD    | Ok,M     |
| 12   | Q3052-01           | VL042910.D     | 08 Sep 2025 18:56 | SY/MD    | Dilution |
| 13   | Q3052-02           | VL042911.D     | 08 Sep 2025 19:31 | SY/MD    | Not Ok   |
| 14   | VIBLK              | VL042912.D     | 08 Sep 2025 20:33 | SY/MD    | Ok       |
| 15   | Q3052-03DL         | VL042913.D     | 08 Sep 2025 21:08 | SY/MD    | Ok,M     |
| 16   | Q3052-04DUP        | VL042914.D     | 08 Sep 2025 21:45 | SY/MD    | Ok,M     |
| 17   | Q3052-02DL         | VL042915.D     | 08 Sep 2025 22:20 | SY/MD    | Not Ok   |
| 18   | Q3052-02           | VL042916.D     | 08 Sep 2025 22:55 | SY/MD    | Not Ok   |
| 19   | Q3052-02           | VL042917.D     | 09 Sep 2025 07:48 | SY/MD    | Not Ok   |
| 20   | Q3052-01DL         | VL042918.D     | 09 Sep 2025 08:22 | SY/MD    | Ok,M     |
| 21   | Q3052-02           | VL042919.D     | 09 Sep 2025 08:57 | SY/MD    | Not Ok   |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL081325**

|              |                     |                      |                      |
|--------------|---------------------|----------------------|----------------------|
| Review By    | Semsettin Yesilyurt | Review On            | 8/14/2025 7:50:07 AM |
| Supervise By | Mahesh Dadoda       | Supervise On         | 8/18/2025 8:43:31 AM |
| SubDirectory | VL081325            | HP Acquire Method    | TO15AIR.M            |
|              |                     | HP Processing Method | VL081325AIR.M        |

| STD. NAME                | STD REF.#            |
|--------------------------|----------------------|
| Tune/Reschk              | AP2655               |
| Initial Calibration Stds | AP2650,AP2652,AP2653 |
| CCC                      | AP2650               |
| Internal Standard/PEM    | AP2655               |
| ICV/I.BLK                | AP2654               |
| Surrogate Standard       |                      |
| MS/MSD Standard          |                      |
| LCS Standard             |                      |

| Sr # | SampleID             | ClientID            | Data File Name | Date-Time         | Comment  | Operator | Status   |
|------|----------------------|---------------------|----------------|-------------------|----------|----------|----------|
| 1    | BFB                  | BFB                 | VL042841.D     | 13 Aug 2025 07:45 |          | SY/MD    | Ok       |
| 2    | VSTDICCC010          | VSTDICCC010         | VL042842.D     | 13 Aug 2025 08:30 |          | SY/MD    | Ok,M     |
| 3    | VSTDICC002           | VSTDICC002          | VL042843.D     | 13 Aug 2025 09:06 |          | SY/MD    | Ok,M     |
| 4    | VSTDICC001           | VSTDICC001          | VL042844.D     | 13 Aug 2025 09:41 |          | SY/MD    | Ok,M     |
| 5    | VSTDICC0.5           | VSTDICC0.5          | VL042845.D     | 13 Aug 2025 10:17 |          | SY/MD    | Ok,M     |
| 6    | VSTDICC0.1           | VSTDICC0.1          | VL042846.D     | 13 Aug 2025 10:53 |          | SY/MD    | Ok,M     |
| 7    | VSTDICC0.03          | VSTDICC0.03         | VL042847.D     | 13 Aug 2025 11:30 |          | SY/MD    | Ok,M     |
| 8    | VSTDICC015           | VSTDICC015          | VL042848.D     | 13 Aug 2025 12:06 |          | SY/MD    | Ok,M     |
| 9    | VSTDICV010           | ICVVL081325         | VL042849.D     | 13 Aug 2025 12:56 |          | SY/MD    | Ok,M     |
| 10   | VL0813ABL01          | VL0813ABL01         | VL042850.D     | 13 Aug 2025 13:46 |          | SY/MD    | Ok       |
| 11   | VL0813ABS01          | VL0813ABS01         | VL042851.D     | 13 Aug 2025 14:32 |          | SY/MD    | Ok,M     |
| 12   | Q2727-01DL2          | AE073-1100DL2       | VL042852.D     | 13 Aug 2025 15:10 |          | SY/MD    | Ok       |
| 13   | Q2126-14 0.1 PPB LOC | LOQ-AIR-02-QT2-2025 | VL042853.D     | 13 Aug 2025 15:49 |          | SY/MD    | Ok,M     |
| 14   | QC080725 CAN10282    | QC080725 CAN10282   | VL042854.D     | 13 Aug 2025 16:27 |          | SY/MD    | Ok       |
| 15   | Q2794-01             | IA1                 | VL042855.D     | 13 Aug 2025 17:05 | Need 10X | SY/MD    | Dilution |
| 16   | Q2794-01DUP          | IA1DUP              | VL042856.D     | 13 Aug 2025 17:43 |          | SY/MD    | Ok,M     |
| 17   | Q2794-01DL           | IA1DL               | VL042857.D     | 13 Aug 2025 18:21 |          | SY/MD    | Ok,M     |
| 18   | Q2794-02             | OA1                 | VL042858.D     | 13 Aug 2025 18:58 |          | SY/MD    | Ok,M     |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL081325**

| Review By                | Semsettin Yesilyurt  | Review On         | 8/14/2025 7:50:07 AM |                      |               |
|--------------------------|----------------------|-------------------|----------------------|----------------------|---------------|
| Supervise By             | Mahesh Dadoda        | Supervise On      | 8/18/2025 8:43:31 AM |                      |               |
| SubDirectory             | VL081325             | HP Acquire Method | TO15AIR.M            | HP Processing Method | VL081325AIR.M |
| STD. NAME                | STD REF.#            |                   |                      |                      |               |
| Tune/Reschk              | AP2655               |                   |                      |                      |               |
| Initial Calibration Stds | AP2650,AP2652,AP2653 |                   |                      |                      |               |
| CCC                      | AP2650               |                   |                      |                      |               |
| Internal Standard/PEM    | AP2655               |                   |                      |                      |               |
| ICV/I.BLK                | AP2654               |                   |                      |                      |               |
| Surrogate Standard       |                      |                   |                      |                      |               |
| MS/MSD Standard          |                      |                   |                      |                      |               |
| LCS Standard             |                      |                   |                      |                      |               |

|    |                    |                    |            |                   |              |       |        |
|----|--------------------|--------------------|------------|-------------------|--------------|-------|--------|
| 19 | Q2794-02DL         | OA1DL              | VL042859.D | 13 Aug 2025 19:35 | Not Required | SY/MD | Not Ok |
| 20 | QC081125 CAN 10280 | QC081125 CAN 10280 | VL042860.D | 13 Aug 2025 20:12 |              | SY/MD | Ok     |
| 21 | Q2834-01           | IA1                | VL042861.D | 13 Aug 2025 20:49 |              | SY/MD | Ok,M   |
| 22 | Q2834-02           | SV1                | VL042862.D | 13 Aug 2025 21:26 |              | SY/MD | Ok,M   |
| 23 | Q2834-02DL         | SV1DL              | VL042863.D | 13 Aug 2025 22:02 | Not Required | SY/MD | Not Ok |
| 24 | VSTDCCC010         | VSTDCCC010EC       | VL042864.D | 13 Aug 2025 22:39 |              | SY/MD | Ok,M   |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL090825**

|                          |                     |                      |                      |                      |               |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Review By                | Mahesh Dadoda       | Review On            | 9/11/2025 5:29:46 PM |                      |               |
| Supervise By             | Semsettin Yesilyurt | Supervise On         | 9/18/2025 6:48:50 AM |                      |               |
| SubDirectory             | VL090825            | HP Acquire Method    | TO15AIR              | HP Processing Method | VL081325AIR.M |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |
| Tune/Reschk              |                     | AP2655               |                      |                      |               |
| Initial Calibration Stds |                     | AP2650,AP2652,AP2653 |                      |                      |               |
| CCC                      |                     | AP2650               |                      |                      |               |
| Internal Standard/PEM    |                     | AP2655               |                      |                      |               |
| ICV/I.BLK                |                     | AP2654               |                      |                      |               |
| Surrogate Standard       |                     |                      |                      |                      |               |
| MS/MSD Standard          |                     |                      |                      |                      |               |
| LCS Standard             |                     |                      |                      |                      |               |

| Sr # | SampleID           | ClientID           | Data File Name | Date-Time         | Comment      | Operator | Status   |
|------|--------------------|--------------------|----------------|-------------------|--------------|----------|----------|
| 1    | BFB                | BFB                | VL042899.D     | 08 Sep 2025 08:41 |              | SY/MD    | Ok       |
| 2    | VSTDCCC010         | VSTDCCC010         | VL042900.D     | 08 Sep 2025 11:05 |              | SY/MD    | Ok,M     |
| 3    | VL0908ABL01        | VL0908ABL01        | VL042901.D     | 08 Sep 2025 11:55 |              | SY/MD    | Ok       |
| 4    | VL0908ABS01        | VL0908ABS01        | VL042902.D     | 08 Sep 2025 13:35 |              | SY/MD    | Ok,M     |
| 5    | Q3038-01           | SV-1               | VL042903.D     | 08 Sep 2025 14:19 | Not required | SY/MD    | Not Ok   |
| 6    | Q3037-01           | IA-2               | VL042904.D     | 08 Sep 2025 15:15 |              | SY/MD    | Ok,M     |
| 7    | Q3037-01DUP        | IA-2DUP            | VL042905.D     | 08 Sep 2025 15:59 |              | SY/MD    | Ok,M     |
| 8    | Q3038-01           | SV-1               | VL042906.D     | 08 Sep 2025 16:33 |              | SY/MD    | Ok,M     |
| 9    | QC090425 CAN 10158 | QC090425 CAN 10158 | VL042907.D     | 08 Sep 2025 17:09 |              | SY/MD    | Ok       |
| 10   | Q3052-03           | IA1                | VL042908.D     | 08 Sep 2025 17:45 | Need 20X     | SY/MD    | Dilution |
| 11   | Q3052-04           | OA1                | VL042909.D     | 08 Sep 2025 18:21 |              | SY/MD    | Ok,M     |
| 12   | Q3052-01           | SV1                | VL042910.D     | 08 Sep 2025 18:56 | Need 200X    | SY/MD    | Dilution |
| 13   | Q3052-02           | SV2                | VL042911.D     | 08 Sep 2025 19:31 | Not required | SY/MD    | Not Ok   |
| 14   | VIBLK              | VIBLK              | VL042912.D     | 08 Sep 2025 20:33 |              | SY/MD    | Ok       |
| 15   | Q3052-03DL         | IA1DL              | VL042913.D     | 08 Sep 2025 21:08 |              | SY/MD    | Ok,M     |
| 16   | Q3052-04DUP        | OA1DUP             | VL042914.D     | 08 Sep 2025 21:45 |              | SY/MD    | Ok,M     |
| 17   | Q3052-02DL         | SV2DL              | VL042915.D     | 08 Sep 2025 22:20 | Not match    | SY/MD    | Not Ok   |
| 18   | Q3052-02           | SV2                | VL042916.D     | 08 Sep 2025 22:55 | Not required | SY/MD    | Not Ok   |

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL090825**

|                          |                     |                      |                      |                      |               |  |  |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|--|--|
| Review By                | Mahesh Dadoda       | Review On            | 9/11/2025 5:29:46 PM |                      |               |  |  |
| Supervise By             | Semsettin Yesilyurt | Supervise On         | 9/18/2025 6:48:50 AM |                      |               |  |  |
| SubDirectory             | VL090825            | HP Acquire Method    | TO15AIR              | HP Processing Method | VL081325AIR.M |  |  |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |  |  |
| Tune/Reschk              |                     | AP2655               |                      |                      |               |  |  |
| Initial Calibration Stds |                     | AP2650,AP2652,AP2653 |                      |                      |               |  |  |
| CCC                      |                     | AP2650               |                      |                      |               |  |  |
| Internal Standard/PEM    |                     | AP2655               |                      |                      |               |  |  |
| ICV/I.BLK                |                     | AP2654               |                      |                      |               |  |  |
| Surrogate Standard       |                     |                      |                      |                      |               |  |  |
| MS/MSD Standard          |                     |                      |                      |                      |               |  |  |
| LCS Standard             |                     |                      |                      |                      |               |  |  |

|    |            |       |            |                   |                           |       |        |
|----|------------|-------|------------|-------------------|---------------------------|-------|--------|
| 19 | Q3052-02   | SV2   | VL042917.D | 09 Sep 2025 07:48 | Not required              | SY/MD | Not Ok |
| 20 | Q3052-01DL | SV1DL | VL042918.D | 09 Sep 2025 08:22 |                           | SY/MD | Ok,M   |
| 21 | Q3052-02   | SV2   | VL042919.D | 09 Sep 2025 08:57 | Need 60X,out of tune time | SY/MD | Not Ok |

M : Manual Integration

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3038

**Test :** VOCMS Group2

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** vl090825,

**Standard ID :**

AP2650,AP2652,AP2653,AP2654,AP2655,

**Chemical ID :**

A1117,A1138,A1139,A1140,

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## Air STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2396             | TO-15 15 PPBV CAL MIX | <a href="#">AP2650</a> | 08/11/2025       | 09/13/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 08/20/2025       |                       |                        |                  |                        |                     |                |                  |                      |

**FROM** 1455.00000SCCM of A1117 + 45.00000SCCM of A1140 = Final Quantity: 30.000 psi

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2397             | TO-15 -2 PPBV CAL.MIX | <a href="#">AP2652</a> | 08/11/2025       | 09/13/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 08/20/2025       |                       |                        |                  |                        |                     |                |                  |                      |

**FROM** 26.00000psi of A1117 + 4.00000psi of AP2650 = Final Quantity: 30.000 psi



## Air STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>      | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2668             | 0.5 PPBV CAL.MIX | <a href="#">AP2653</a> | 08/11/2025       | 09/13/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 08/20/2025       |                  |                        |                  |                        |                     |                |                  |                      |

**FROM** 29.00000psi of A1117 + 1.00000psi of AP2650 = Final Quantity: 30.000 psi

| <u>Recipe ID</u> | <u>NAME</u>           | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|-----------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 2396             | TO-15 15 PPBV CAL MIX | <a href="#">AP2654</a> | 08/11/2025       | 09/13/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| 08/20/2025       |                       |                        |                  |                        |                     |                |                  |                      |

**FROM** 1455.00000SCCM of A1117 + 45.00000SCCM of A1139 = Final Quantity: 30.000 psi

## Air STANDARD PREPARATION LOG

| <u>Recipe ID</u>                                                                    | <u>NAME</u>                             | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u>  | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|-------------------------------------------------------------------------------------|-----------------------------------------|------------------------|------------------|------------------------|---------------------|----------------|------------------|----------------------|
| 47                                                                                  | Internal Standard/Surrogate Mix-80 ppbv | <a href="#">AP2655</a> | 08/13/2025       | 09/13/2025             | Semsettin Yesilyurt | None           | None             | Maresh Dadoda        |
| <b>FROM</b> 2.40000psi of A1138 + 27.60000psi of A1117 = Final Quantity: 30.000 psi |                                         |                        |                  |                        |                     |                |                  |                      |

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## CHEMICAL RECEIPT LOG BOOK

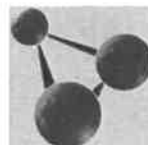
| Supplier    | ItemCode / ItemName       | Lot #          | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------|---------------------------|----------------|-----------------|-------------------------|-----------------------------|----------------|
| AIR LIQUIDE | 365A-49 / AIR, Compressed | 90402401186-01 | 04/01/2026      | 04/01/2022 / apatel     | 04/01/2022 / SAM            | A1117          |

| Supplier            | ItemCode / ItemName                                       | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---------------------|-----------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| CUSTOMGAS Solutions | TB500009-110 / TO-15 Internal Standard/Surrogate Standard | BC275465 | 12/16/2025      | 07/15/2025 / SAM        | 07/14/2025 / SAM            | A1138          |

| Supplier            | ItemCode / ItemName                                                                       | Lot #        | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---------------------|-------------------------------------------------------------------------------------------|--------------|-----------------|-------------------------|-----------------------------|----------------|
| CUSTOMGAS Solutions | TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene) | 040424-003AR | 04/16/2026      | 07/16/2025 / SAM        | 07/14/2025 / SAM            | A1139          |

| Supplier            | ItemCode / ItemName                                                                       | Lot #        | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---------------------|-------------------------------------------------------------------------------------------|--------------|-----------------|-------------------------|-----------------------------|----------------|
| CUSTOMGAS Solutions | TO15-80-6R-07092 / TO-15 Modified (80 comp) in Nitrogen (addition of 2-methylnaphthalene) | 040424-003BR | 04/16/2026      | 07/16/2025 / SAM        | 07/14/2025 / SAM            | A1140          |

# CUSTOMGAS SOLUTIONS



1750 East Club Boulevard  
Durham, NC 27704  
Phone: (919) 220-2570  
Fax: (919) 220-4540

rec: 07/14/25  
A 1138

## Certificate of Analysis

### Customer:

Chem Tech  
284 Sheffield Street  
Mountainside, NJ 07092

Tel: (908) 789-8900

Cylinder Number: BC275465  
Cylinder Size/CGA: 170/180SS  
Fill Pressure: 1815 PSIA  
Gas Volume: ~170 liters  
Date of Mfg: 07/16/2024  
Expiration Date: 012/16/2025

Ship To : Chem Tech  
284 Sheffield Street  
Mountainside, NJ 07092

| Customer Number | Ship VIA | Job No.    | Customer PO | Mixture Type |
|-----------------|----------|------------|-------------|--------------|
| 00107092NJ      | Best Way | 040424-003 | 240404-10   | Gravimetric  |

| Component            | Nominal Concentration | Actual Concentration*  | Mixture Type           |
|----------------------|-----------------------|------------------------|------------------------|
| Bromochloromethane   | 1 ppm                 | 1.014 ppm +/- 0.02 ppm | Gravimetric Master Gas |
| 4-Bromofluorobenzene | 1 ppm                 | 1.008 ppm +/- 0.02 ppm |                        |
| Chlorobenzene-D5     | 1 ppm                 | 0.993 ppm +/- 0.02 ppm |                        |
| 1,4-Difluorobenzene  | 1 ppm                 | 0.979 ppm +/- 0.02 ppm |                        |
| Nitrogen             | balance               | balance                |                        |
|                      |                       |                        |                        |
|                      |                       |                        |                        |
|                      |                       |                        |                        |

### **NOTES:** Blend Tolerance:

+/- 10 %

### Analytical Tolerance:

+/- 5 %

### Traceability:

NIST by weight set. NIST Traceability No MT001810.

Internal Standards by analysis

### Reactive Mixtures:

Analyzed twice with required agreement between analyses of 2%.

Required wait time between analyses of >7 days.

### Caution:

Do not use below 150 PSIG.

Analyst Name: Joseph A. Ernst

QA Signature:

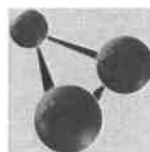
Signature:

Date: 07/16/2024

\*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

Rec 07/14/25

# CUSTOMGAS SOLUTIONS



1750 East Club Boulevard  
Durham, NC 27704  
Phone: (919) 220-2570  
Fax: (919) 220-4540

A 1139

## Certificate of Analysis

### Customer:

ChemTech  
284 Sheffield Street  
Mountainside, NJ 07092

Cylinder Number: BC315629  
Cylinder Size/CGA: 170/180  
Fill Pressure: 1815 PSIA  
Gas Volume: 110 liters  
Date of Mfg: 04/16/2025  
Expiration Date: 04/16/2026  
Lot Number: 040424-003AR

Ship To : Chemtech  
284 Sheffield Street  
Mountainside, NJ 07092

| Customer Number | Ship VIA | Job No.     | Customer PO | Mixture Type |
|-----------------|----------|-------------|-------------|--------------|
| 00107092NJ      | Best Way | 040424-003R | 240404-10   | Gravimetric  |

| Component                     | Nominal Concentration | Actual Concentration* | Mixture Type           |
|-------------------------------|-----------------------|-----------------------|------------------------|
| Acetone                       | 500 ppb               | 519 ppb +/- 50 ppb    | Gravimetric Master Gas |
| Acetonitrile                  | 500 ppb               | 537 ppb +/- 50 ppb    |                        |
| Acrolein                      | 500 ppb               | 542 ppb +/- 50 ppb    |                        |
| Acrylonitrile                 | 500 ppb               | 532 ppb +/- 50 ppb    |                        |
| Allyl chloride                | 500 ppb               | 509 ppb +/- 50 ppb    |                        |
| Benzene                       | 500 ppb               | 486 ppb +/- 50 ppb    |                        |
| Benzyl Chloride               | 500 ppb               | 492 ppb +/- 50 ppb    |                        |
| Bromodichloromethane          | 500 ppb               | 512 ppb +/- 50 ppb    |                        |
| Bromoform                     | 500 ppb               | 497 ppb +/- 50 ppb    |                        |
| 1,3-Butadiene                 | 500 ppb               | 506 ppb +/- 50 ppb    |                        |
| tert-Butyl alcohol            | 500 ppb               | 529 ppb +/- 50 ppb    |                        |
| n-Butyl benzene               | 500 ppb               | 527 ppb +/- 50 ppb    |                        |
| sec-Butyl benzene             | 500 ppb               | 527 ppb +/- 50 ppb    |                        |
| tert-Butyl benzene            | 500 ppb               | 527 ppb +/- 50 ppb    |                        |
| Carbon disulfide              | 500 ppb               | 487 ppb +/- 50 ppb    |                        |
| Carbon tetrachloride          | 500 ppb               | 509 ppb +/- 50 ppb    |                        |
| Chlorobenzene                 | 500 ppb               | 494 ppb +/- 50 ppb    |                        |
| Chlorodibromomethane          | 500 ppb               | 490 ppb +/- 50 ppb    |                        |
| Chloroform                    | 500 ppb               | 495 ppb +/- 50 ppb    |                        |
| 2-Chlorotoluene               | 500 ppb               | 529 ppb +/- 50 ppb    |                        |
| Cyclohexane                   | 500 ppb               | 482 ppb +/- 50 ppb    |                        |
| 1,2-Dibromoethane             | 500 ppb               | 491 ppb +/- 50 ppb    |                        |
| 1,2-Dichlorobenzene           | 500 ppb               | 510 ppb +/- 50 ppb    |                        |
| 1,3-Dichlorobenzene           | 500 ppb               | 489 ppb +/- 50 ppb    |                        |
| 1,4-Dichlorobenzene           | 500 ppb               | 490 ppb +/- 50 ppb    |                        |
| Dichlorodifluoromethane (R12) | 500 ppb               | 508 ppb +/- 50 ppb    |                        |

|                                |         |                    |  |
|--------------------------------|---------|--------------------|--|
| 1,1-Dichloroethane             | 500 ppb | 494 ppb +/- 50 ppb |  |
| 1,2-Dichloroethane             | 500 ppb | 499 ppb +/- 50 ppb |  |
| 1,1-Dichloroethylene           | 500 ppb | 496 ppb +/- 50 ppb |  |
| cis 1,2-Dichloroethylene       | 500 ppb | 491 ppb +/- 50 ppb |  |
| trans 1,2-Dichloroethylene     | 500 ppb | 491 ppb +/- 50 ppb |  |
| 1,2-Dichloropropane            | 500 ppb | 492 ppb +/- 50 ppb |  |
| cis 1,3-Dichloropropylene      | 500 ppb | 518 ppb +/- 50 ppb |  |
| trans 1,3-Dichloropropylene    | 500 ppb | 468 ppb +/- 50 ppb |  |
| 1,2-Dichlorotetrafluoroethane  | 500 ppb | 507 ppb +/- 50 ppb |  |
| 1,4-Dioxane                    | 500 ppb | 486 ppb +/- 50 ppb |  |
| Ethyl acetate                  | 500 ppb | 488 ppb +/- 50 ppb |  |
| Ethyl Alcohol                  | 500 ppb | 552 ppb +/- 50 ppb |  |
| Ethyl benzene                  | 500 ppb | 499 ppb +/- 50 ppb |  |
| Ethyl Chloride                 | 500 ppb | 509 ppb +/- 50 ppb |  |
| 4-Ethyltoluene                 | 500 ppb | 488 ppb +/- 50 ppb |  |
| n-Heptane                      | 500 ppb | 487 ppb +/- 50 ppb |  |
| Hexachloro-1,3-butadiene       | 500 ppb | 489 ppb +/- 50 ppb |  |
| 2-Hexanone                     | 500 ppb | 493 ppb +/- 50 ppb |  |
| n-Hexane                       | 500 ppb | 485 ppb +/- 50 ppb |  |
| Isopropyl alcohol              | 500 ppb | 511 ppb +/- 50 ppb |  |
| Isopropyl benzene              | 500 ppb | 524 ppb +/- 50 ppb |  |
| p-Isopropyl toluene            | 500 ppb | 532 ppb +/- 50 ppb |  |
| Methyl Bromide                 | 500 ppb | 505 ppb +/- 50 ppb |  |
| Methyl Chloride                | 500 ppb | 509 ppb +/- 50 ppb |  |
| Methyl ethyl ketone            | 500 ppb | 496 ppb +/- 50 ppb |  |
| Methyl isobutyl ketone         | 500 ppb | 493 ppb +/- 50 ppb |  |
| Methyl methacrylate            | 500 ppb | 529 ppb +/- 50 ppb |  |
| Methyl tertiary butyl ether    | 500 ppb | 483 ppb +/- 50 ppb |  |
| Methylene chloride             | 500 ppb | 498 ppb +/- 50 ppb |  |
| Naphthalene                    | 500 ppb | 539 ppb +/- 50 ppb |  |
| n-Propylbenzene                | 500 ppb | 529 ppb +/- 50 ppb |  |
| Propylene                      | 500 ppb | 508 ppb +/- 50 ppb |  |
| Styrene                        | 500 ppb | 485 ppb +/- 50 ppb |  |
| 1,1,1,2-Tetrachloroethane      | 500 ppb | 532 ppb +/- 50 ppb |  |
| 1,1,2,2-Tetrachloroethane      | 500 ppb | 534 ppb +/- 50 ppb |  |
| Tetrachloroethylene            | 500 ppb | 487 ppb +/- 50 ppb |  |
| Tetrahydrofuran                | 500 ppb | 535 ppb +/- 50 ppb |  |
| Toluene                        | 500 ppb | 491 ppb +/- 50 ppb |  |
| 1,2,4-Trichlorobenzene         | 500 ppb | 494 ppb +/- 50 ppb |  |
| 1,1,1-Trichloroethane          | 500 ppb | 494 ppb +/- 50 ppb |  |
| 1,1,2-Trichloroethane          | 500 ppb | 494 ppb +/- 50 ppb |  |
| Trichloroethylene              | 500 ppb | 488 ppb +/- 50 ppb |  |
| Trichlorofluoromethane         | 500 ppb | 508 ppb +/- 50 ppb |  |
| 1,1,2-Trichlorotrifluoroethane | 500 ppb | 495 ppb +/- 50 ppb |  |
| 1,2,4-Trimethylbenzene         | 500 ppb | 494 ppb +/- 50 ppb |  |
| 1,3,5-Trimethylbenzene         | 500 ppb | 498 ppb +/- 50 ppb |  |
| 2,2,4-Trimethylpentane         | 500 ppb | 489 ppb +/- 50 ppb |  |
| Vinyl acetate                  | 500 ppb | 499 ppb +/- 50 ppb |  |
| Vinyl bromide                  | 500 ppb | 501 ppb +/- 50 ppb |  |
| Vinyl chloride                 | 500 ppb | 509 ppb +/- 50 ppb |  |
| m-Xylene                       | 500 ppb | 495 ppb +/- 50 ppb |  |
| o-Xylene                       | 500 ppb | 482 ppb +/- 50 ppb |  |
| p-Xylene                       | 500 ppb | 488 ppb +/- 50 ppb |  |
| 2-Methyl Naphthalene           | 500 ppb | 498 ppb +/- 50 ppb |  |
| R-22                           | 500 ppb | 590 ppb +/- 50 ppb |  |
| Nitrogen                       | balance | balance            |  |
|                                |         |                    |  |
|                                |         |                    |  |



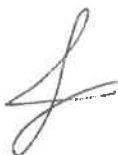
**NOTES:** Blend Tolerance: +/- 20 %  
Analytical Tolerance: +/- 10 %  
Traceability: NIST by weight set. NIST Traceability No MT001810.  
Internal Standards by analysis  
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.  
Required wait time between analyses of >7 days.  
Caution: Do not use below 150 PSIG.

**Analyst Name:** Joseph A. Ernst

**QA Signature:**

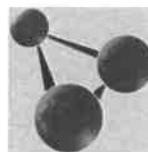
**Signature:**

**Date:** 04/16/2025



\*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

# CUSTOMGAS SOLUTIONS



1750 East Club Boulevard  
Durham, NC 27704  
Phone: (919) 220-2570  
Fax: (919) 220-4540

## Certificate of Analysis

### Customer:

ChemTech  
284 Sheffield Street  
Mountainside, NJ 07092

Cylinder Number: AD49101  
Cylinder Size/CGA: 170/180  
Fill Pressure: 1815 PSIA  
Gas Volume: 110 liters  
Date of Mfg: 04/16/2025  
Expiration Date: 04/16/2026  
Lot Number: 040424-003BR

Ship To : Chemtech  
284 Sheffield Street  
Mountainside, NJ 07092

| Customer Number | Ship VIA | Job No.     | Customer PO | Mixture Type |
|-----------------|----------|-------------|-------------|--------------|
| 00107092NJ      | Best Way | 040424-003R | 240404-10   | Gravimetric  |

| Component                     | Nominal Concentration | Actual Concentration* | Mixture Type           |
|-------------------------------|-----------------------|-----------------------|------------------------|
| Acetone                       | 500 ppb               | 460 ppb +/- 50 ppb    | Gravimetric Master Gas |
| Acetonitrile                  | 500 ppb               | 471 ppb +/- 50 ppb    |                        |
| Acrolein                      | 500 ppb               | 480 ppb +/- 50 ppb    |                        |
| Acrylonitrile                 | 500 ppb               | 476 ppb +/- 50 ppb    |                        |
| Allyl chloride                | 500 ppb               | 453 ppb +/- 50 ppb    |                        |
| Benzene                       | 500 ppb               | 431 ppb +/- 50 ppb    |                        |
| Benzyl Chloride               | 500 ppb               | 436 ppb +/- 50 ppb    |                        |
| Bromodichloromethane          | 500 ppb               | 454 ppb +/- 50 ppb    |                        |
| Bromoform                     | 500 ppb               | 441 ppb +/- 50 ppb    |                        |
| 1,3-Butadiene                 | 500 ppb               | 449 ppb +/- 50 ppb    |                        |
| tert-Butyl alcohol            | 500 ppb               | 469 ppb +/- 50 ppb    |                        |
| n-Butyl benzene               | 500 ppb               | 467 ppb +/- 50 ppb    |                        |
| sec-Butyl benzene             | 500 ppb               | 467 ppb +/- 50 ppb    |                        |
| tert-Butyl benzene            | 500 ppb               | 467 ppb +/- 50 ppb    |                        |
| Carbon disulfide              | 500 ppb               | 432 ppb +/- 50 ppb    |                        |
| Carbon tetrachloride          | 500 ppb               | 451 ppb +/- 50 ppb    |                        |
| Chlorobenzene                 | 500 ppb               | 438 ppb +/- 50 ppb    |                        |
| Chlorodibromomethane          | 500 ppb               | 474 ppb +/- 50 ppb    |                        |
| Chloroform                    | 500 ppb               | 438 ppb +/- 50 ppb    |                        |
| 2-Chlorotoluene               | 500 ppb               | 469 ppb +/- 50 ppb    |                        |
| Cyclohexane                   | 500 ppb               | 430 ppb +/- 50 ppb    |                        |
| 1,2-Dibromoethane             | 500 ppb               | 437 ppb +/- 50 ppb    |                        |
| 1,2-Dichlorobenzene           | 500 ppb               | 454 ppb +/- 50 ppb    |                        |
| 1,3-Dichlorobenzene           | 500 ppb               | 435 ppb +/- 50 ppb    |                        |
| 1,4-Dichlorobenzene           | 500 ppb               | 476 ppb +/- 50 ppb    |                        |
| Dichlorodifluoromethane (R12) | 500 ppb               | 452 ppb +/- 50 ppb    |                        |



|                                |         |                    |  |
|--------------------------------|---------|--------------------|--|
| 1,1-Dichloroethane             | 500 ppb | 438 ppb +/- 50 ppb |  |
| 1,2-Dichloroethane             | 500 ppb | 442 ppb +/- 50 ppb |  |
| 1,1-Dichloroethylene           | 500 ppb | 439 ppb +/- 50 ppb |  |
| cis 1,2-Dichloroethylene       | 500 ppb | 435 ppb +/- 50 ppb |  |
| trans 1,2-Dichloroethylene     | 500 ppb | 435 ppb +/- 50 ppb |  |
| 1,2-Dichloropropane            | 500 ppb | 436 ppb +/- 50 ppb |  |
| cis 1,3-Dichloropropylene      | 500 ppb | 460 ppb +/- 50 ppb |  |
| trans 1,3-Dichloropropylene    | 500 ppb | 415 ppb +/- 50 ppb |  |
| 1,2-Dichlorotetrafluoroethane  | 500 ppb | 450 ppb +/- 50 ppb |  |
| 1,4-Dioxane                    | 500 ppb | 431 ppb +/- 50 ppb |  |
| Ethyl acetate                  | 500 ppb | 433 ppb +/- 50 ppb |  |
| Ethyl Alcohol                  | 500 ppb | 489 ppb +/- 50 ppb |  |
| Ethyl benzene                  | 500 ppb | 442 ppb +/- 50 ppb |  |
| Ethyl Chloride                 | 500 ppb | 451 ppb +/- 50 ppb |  |
| 4-Ethyltoluene                 | 500 ppb | 432 ppb +/- 50 ppb |  |
| n-Heptane                      | 500 ppb | 434 ppb +/- 50 ppb |  |
| Hexachloro-1,3-butadiene       | 500 ppb | 436 ppb +/- 50 ppb |  |
| 2-Hexanone                     | 500 ppb | 437 ppb +/- 50 ppb |  |
| n-Hexane                       | 500 ppb | 432 ppb +/- 50 ppb |  |
| Isopropyl alcohol              | 500 ppb | 455 ppb +/- 50 ppb |  |
| Isopropyl benzene              | 500 ppb | 465 ppb +/- 50 ppb |  |
| p-Isopropyl toluene            | 500 ppb | 530 ppb +/- 50 ppb |  |
| Methyl Bromide                 | 500 ppb | 450 ppb +/- 50 ppb |  |
| Methyl Chloride                | 500 ppb | 453 ppb +/- 50 ppb |  |
| Methyl ethyl ketone            | 500 ppb | 442 ppb +/- 50 ppb |  |
| Methyl isobutyl ketone         | 500 ppb | 439 ppb +/- 50 ppb |  |
| Methyl methacrylate            | 500 ppb | 469 ppb +/- 50 ppb |  |
| Methyl tertiary butyl ether    | 500 ppb | 430 ppb +/- 50 ppb |  |
| Methylene chloride             | 500 ppb | 443 ppb +/- 50 ppb |  |
| Naphthalene                    | 500 ppb | 478 ppb +/- 50 ppb |  |
| n-Propylbenzene                | 500 ppb | 525 ppb +/- 50 ppb |  |
| Propylene                      | 500 ppb | 452 ppb +/- 50 ppb |  |
| Styrene                        | 500 ppb | 432 ppb +/- 50 ppb |  |
| 1,1,1,2-Tetrachloroethane      | 500 ppb | 471 ppb +/- 50 ppb |  |
| 1,1,2,2-Tetrachloroethane      | 500 ppb | 431 ppb +/- 50 ppb |  |
| Tetrachloroethylene            | 500 ppb | 434 ppb +/- 50 ppb |  |
| Tetrahydrofuran                | 500 ppb | 477 ppb +/- 50 ppb |  |
| Toluene                        | 500 ppb | 438 ppb +/- 50 ppb |  |
| 1,2,4-Trichlorobenzene         | 500 ppb | 440 ppb +/- 50 ppb |  |
| 1,1,1-Trichloroethane          | 500 ppb | 440 ppb +/- 50 ppb |  |
| 1,1,2-Trichloroethane          | 500 ppb | 440 ppb +/- 50 ppb |  |
| Trichloroethylene              | 500 ppb | 435 ppb +/- 50 ppb |  |
| Trichlorofluoromethane         | 500 ppb | 453 ppb +/- 50 ppb |  |
| 1,1,2-Trichlorotrifluoroethane | 500 ppb | 441 ppb +/- 50 ppb |  |
| 1,2,4-Trimethylbenzene         | 500 ppb | 440 ppb +/- 50 ppb |  |
| 1,3,5-Trimethylbenzene         | 500 ppb | 444 ppb +/- 50 ppb |  |
| 2,2,4-Trimethylpentane         | 500 ppb | 435 ppb +/- 50 ppb |  |
| Vinyl acetate                  | 500 ppb | 444 ppb +/- 50 ppb |  |
| Vinyl bromide                  | 500 ppb | 450 ppb +/- 50 ppb |  |
| Vinyl chloride                 | 500 ppb | 451 ppb +/- 50 ppb |  |
| m-Xylene                       | 500 ppb | 439 ppb +/- 50 ppb |  |
| o-Xylene                       | 500 ppb | 427 ppb +/- 50 ppb |  |
| p-Xylene                       | 500 ppb | 433 ppb +/- 50 ppb |  |
| 2-Methyl Naphthalene           | 500 ppb | 497 ppb +/- 50 ppb |  |
| R-22                           | 500 ppb | 435 ppb +/- 50 ppb |  |
| Nitrogen                       | balance | balance            |  |
|                                |         |                    |  |
|                                |         |                    |  |

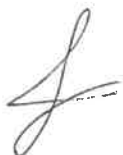
**NOTES:** Blend Tolerance: +/- 20 %  
Analytical Tolerance: +/- 10 %  
Traceability: NIST by weight set. NIST Traceability No MT001810.  
Internal Standards by analysis  
Reactive Mixtures: Analyzed twice with required agreement between analyses of 2%.  
Required wait time between analyses of >7 days.  
Caution: Do not use below 150 PSIG.

**Analyst Name:** Joseph A. Ernst

**QA Signature:**

**Signature:**

**Date:** 04/16/2025



\*Every effort has been made to establish the actual concentration of the components using master gas blending technology however, Custom Gas Solutions shall have no liability in excess of the established charge for this material.

## Process Report

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

**Order ID : Q3038**

| Date       | Bottle ID | Lab Sample Number | InComing Vacuum | Canister ID | Can Size | Reg ID | Reg Size | Batch Code | Certification ID                                                                                                     |
|------------|-----------|-------------------|-----------------|-------------|----------|--------|----------|------------|----------------------------------------------------------------------------------------------------------------------|
| 09/09/2025 | B2508049  | Q3038-01          | -9.6            | 10122       | 1.4 L    | 10545  |          | C2503006   | <b>VL042090.D</b><br>Seq :VL030325<br>TUNE : VL042074.D<br>ICAL : VL042046.D<br>CCAL : VL042075.D<br>MB : VL042076.D |

**Canister Batch :** C2503006

**Type of Canister :** 1.4 L

**Cleaning Date :** 02/26/2025

**Analyst :** SAM

**Oven Temperature :** 125.0 c

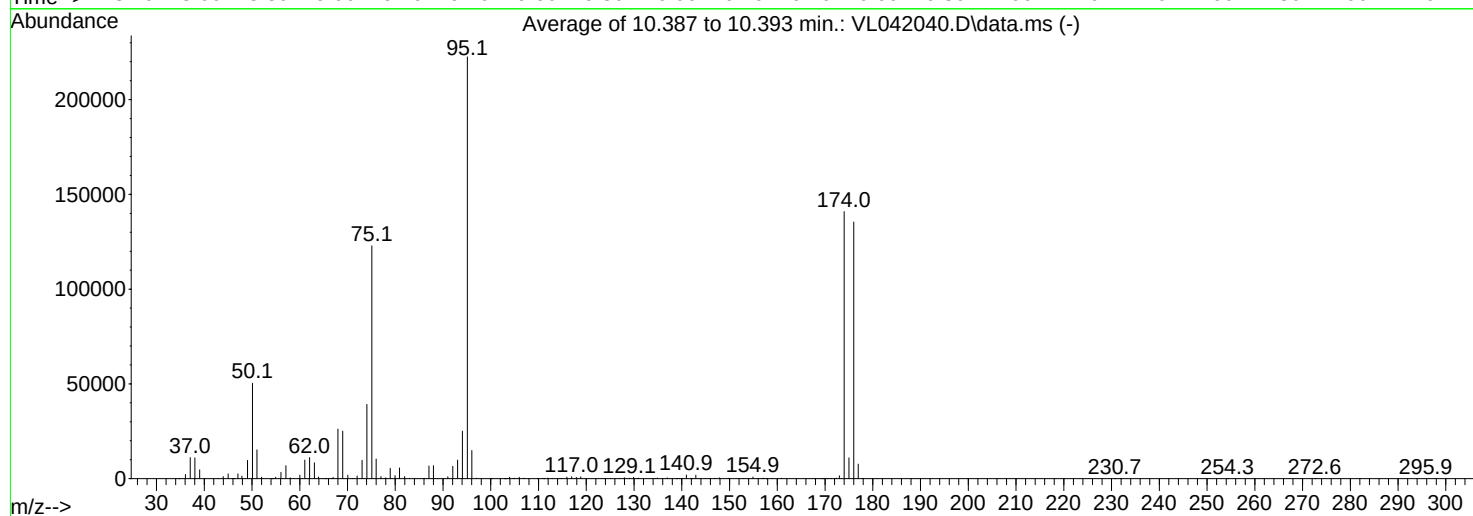
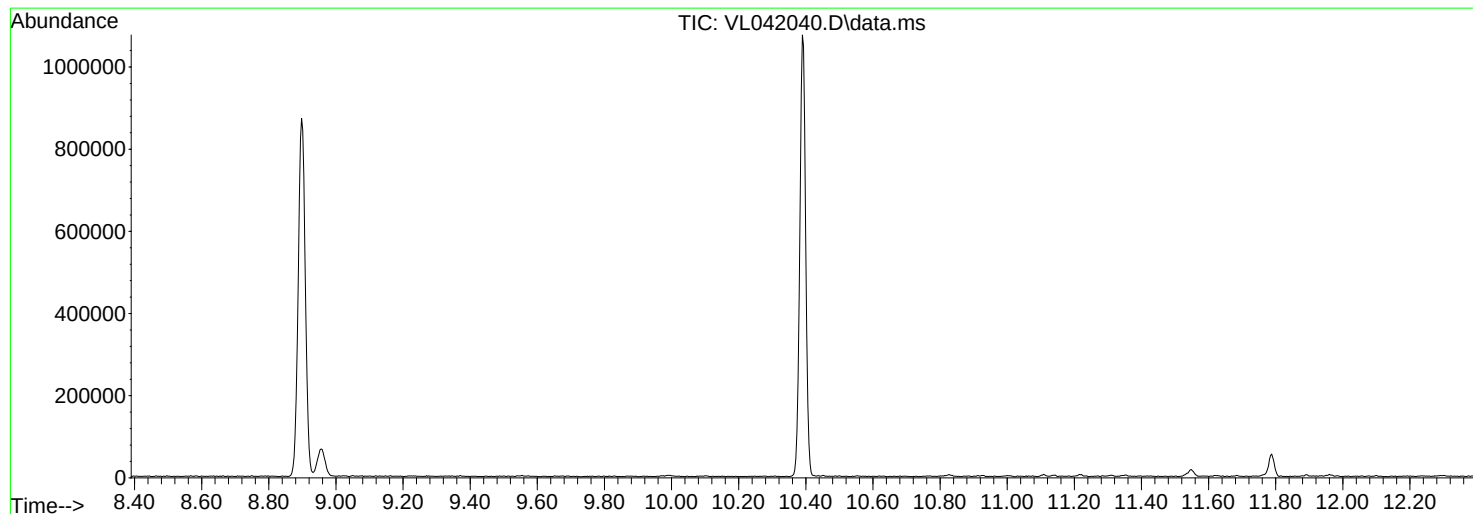
| Canister | Vaccum After Cleaning ("Hg) | Vaccum After Cleaning Date | Analysis Date | VAC 24Hr ("Hg) | Vaccum After 24hr Date | New Sample Number | QC Canister | File       |
|----------|-----------------------------|----------------------------|---------------|----------------|------------------------|-------------------|-------------|------------|
| 10747    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10752    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10470    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             | Q3039-02          | 10746       | VL042090.D |
| 10464    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10435    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10123    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             | Q1849-04          | 10746       | VL042090.D |
| 10737    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10420    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10743    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10451    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10428    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10423    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10668    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10122    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             | Q3038-01          | 10746       | VL042090.D |
| 10136    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10147    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10674    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10684    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10653    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             |                   | 10746       | VL042090.D |
| 10746    | -30                         | 02/26/2025                 | 03/04/2025    | -30            | 02/27/2025             | Q1849-23          | 10746       | VL042090.D |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042040.D  
Acq On : 25 Feb 2025 07:56  
Operator : SY/MD  
Sample : BFB  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3182, 3183, 3184; Background Corrected with Scan 3168

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 50     | 95      | 8      | 40     | 22.6  | 50320  | PASS      |
| 75     | 95      | 30     | 66     | 55.2  | 122859 | PASS      |
| 95     | 95      | 100    | 100    | 100.0 | 222571 | PASS      |
| 96     | 95      | 5      | 9      | 6.7   | 14875  | PASS      |
| 173    | 174     | 0.00   | 2      | 1.1   | 1534   | PASS      |
| 174    | 95      | 50     | 120    | 63.3  | 140957 | PASS      |
| 175    | 174     | 4      | 9      | 7.8   | 11014  | PASS      |
| 176    | 174     | 93     | 101    | 96.1  | 135437 | PASS      |
| 177    | 176     | 5      | 9      | 5.7   | 7676   | PASS      |

Method Path : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\

Method File : VL022525AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

Last Update : Wed Feb 26 01:08:36 2025

Response Via : Initial Calibration

## Calibration Files

0.03=VL042046.D 0.1 =VL042045.D 0.5 =VL042044.D 1 =VL042043.D 2 =VL042042.D 10 =VL042041.D 15 =VL042047.D

| Compound                  | 0.03           | 0.1   | 0.5   | 1     | 2     | 10    | 15    | Avg    | %RSD  |
|---------------------------|----------------|-------|-------|-------|-------|-------|-------|--------|-------|
| -----                     |                |       |       |       |       |       |       |        |       |
| 1) I Bromochloromethane   | -----ISTD----- |       |       |       |       |       |       |        |       |
| 2) T Dichlorodifluo...    |                |       | 1.109 | 1.084 | 1.091 | 0.943 | 0.973 | 1.040  | 7.31  |
| 3) Chlorodifluoro...      |                |       | 1.493 | 1.566 | 1.535 | 1.311 | 1.362 | 1.453  | 7.67  |
| 4) Chloromethane          |                |       | 0.438 | 0.398 | 0.399 | 0.344 | 0.344 | 0.385  | 10.53 |
| 5) T Vinyl Chloride       | 0.447          | 0.336 | 0.376 | 0.346 | 0.361 | 0.337 | 0.343 | 0.364  | 10.89 |
| 6) T Bromomethane         |                |       | 0.170 | 0.184 | 0.186 | 0.160 | 0.165 | 0.173  | 6.63  |
| 7) Chloroethane           |                |       | 0.151 | 0.158 | 0.156 | 0.135 | 0.140 | 0.148  | 6.83  |
| 8) T Dichlorotetra...     |                |       | 0.892 | 0.910 | 0.901 | 0.779 | 0.791 | 0.855  | 7.47  |
| 9) T Propene              |                |       | 0.614 | 0.630 | 0.636 | 0.522 | 0.558 | 0.592  | 8.47  |
| 10) T Heptane             |                |       | 1.971 | 1.946 | 1.960 | 1.662 | 1.679 | 1.844  | 8.59  |
| 11) T Trichlorofluor...   |                |       | 1.056 | 1.122 | 1.119 | 0.944 | 0.968 | 1.042  | 7.98  |
| 12) T 1,1,2-Trichlor...   |                |       | 0.919 | 0.902 | 0.865 | 0.697 | 0.773 | 0.831  | 11.28 |
| 13) Ethanol               |                |       | 0.053 | 0.057 | 0.040 | 0.020 | 0.018 | 0.038# | 48.50 |
| 14) T Bromoethene         |                |       | 0.325 | 0.304 | 0.299 | 0.264 | 0.275 | 0.293  | 8.41  |
| 15) T Acetone             |                |       | 1.084 | 0.960 | 0.933 | 0.714 | 0.723 | 0.883  | 18.17 |
| 16) T 1,3-Butadiene       |                |       | 0.476 | 0.435 | 0.418 | 0.358 | 0.367 | 0.411  | 11.96 |
| 17) tert-Butyl alc...     |                |       | 1.184 | 1.185 | 1.201 | 0.950 | 1.004 | 1.105  | 10.71 |
| 18) T 1,1-Dichloroet...   |                |       | 0.398 | 0.437 | 0.386 | 0.320 | 0.338 | 0.376  | 12.57 |
| 19) T Isopropyl Alcohol   |                |       | 0.561 | 0.571 | 0.557 | 0.419 | 0.429 | 0.507  | 15.06 |
| 20) T Methylene Chlo...   |                |       | 0.429 | 0.374 | 0.329 | 0.261 | 0.278 | 0.334  | 20.72 |
| 21) T Allyl Chloride      |                |       | 0.707 | 0.717 | 0.639 | 0.538 | 0.590 | 0.638  | 11.94 |
| 22) T trans-1,2-Dich...   |                |       | 0.481 | 0.506 | 0.450 | 0.358 | 0.395 | 0.438  | 13.90 |
| 23) T Vinyl Acetate       |                |       | 0.689 | 0.614 | 0.695 | 0.520 | 0.586 | 0.621  | 11.82 |
| 24) T 1,1-Dichloroet...   |                |       | 0.927 | 0.856 | 0.863 | 0.669 | 0.758 | 0.815  | 12.42 |
| 25) T Ethyl Acetate       |                |       | 3.833 | 3.674 | 3.776 | 3.174 | 3.217 | 3.535  | 8.91  |
| 26) T Hexane              |                |       | 1.596 | 1.462 | 1.519 | 1.282 | 1.287 | 1.429  | 9.83  |
| 27) T Carbon Disulfide    |                |       | 1.042 | 0.972 | 1.032 | 0.856 | 0.942 | 0.969  | 7.78  |
| 28) T Methyl tert-Bu...   |                |       | 0.650 | 0.844 | 0.838 | 0.522 | 0.705 | 0.711  | 19.02 |
| 29) T Chloroform          |                |       | 2.165 | 2.044 | 1.971 | 1.722 | 1.716 | 1.923  | 10.36 |
| 30) T Cyclohexane         |                |       | 1.154 | 1.239 | 1.255 | 1.076 | 1.076 | 1.160  | 7.39  |
| 31) T cis-1,2-Dichlo...   |                |       | 1.421 | 1.401 | 1.450 | 1.237 | 1.255 | 1.353  | 7.33  |
| 32) T 1,1,1-Trichlor...   | 1.921          | 1.875 | 1.883 | 1.916 | 1.944 | 1.771 | 1.751 | 1.866  | 4.05  |
| -----                     |                |       |       |       |       |       |       |        |       |
| 33) I 1,4-Difluorobenzene | -----ISTD----- |       |       |       |       |       |       |        |       |
| 34) T 2-Butanone          |                |       | 0.833 | 0.799 | 0.812 | 0.692 | 0.759 | 0.779  | 7.15  |
| 35) T Carbon Tetrach...   | 0.664          | 0.705 | 0.675 | 0.723 | 0.725 | 0.655 | 0.681 | 0.690  | 4.09  |
| 36) T Benzene             |                |       | 1.079 | 1.084 | 1.104 | 0.969 | 0.999 | 1.047  | 5.66  |
| 37) T 1,2-Dichloroet...   |                |       | 0.624 | 0.604 | 0.598 | 0.520 | 0.556 | 0.580  | 7.20  |
| 38) T Trichloroethene     | 0.447          | 0.462 | 0.433 | 0.447 | 0.447 | 0.378 | 0.379 | 0.427  | 8.06  |
| 39) T 1,2-Dichloropr...   |                |       | 0.421 | 0.415 | 0.414 | 0.357 | 0.379 | 0.397  | 7.02  |

|                                                                                 |   |                   |       |       |       |       |       |       |       |       |       |
|---------------------------------------------------------------------------------|---|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Method Path : Z:\voasrv\HPCHEM1\MSVOA_L\methods\<br>Method File : VL022525AIR.M |   |                   |       |       |       |       |       |       |       |       |       |
| 40)                                                                             | T | 1,4-Dioxane       |       |       | 0.192 | 0.196 | 0.181 | 0.164 | 0.173 | 0.181 | 7.31  |
| 41)                                                                             | T | Tetrahydrofuran   |       |       | 0.469 | 0.492 | 0.473 | 0.418 | 0.450 | 0.460 | 6.04  |
| 42)                                                                             | T | Bromodichlorom... |       |       | 0.806 | 0.791 | 0.810 | 0.739 | 0.765 | 0.782 | 3.81  |
| 43)                                                                             |   | Methyl Methacr... |       |       | 0.400 | 0.418 | 0.426 | 0.392 | 0.409 | 0.409 | 3.35  |
| 44)                                                                             | T | 2,2,4-Trimethy... |       |       | 1.928 | 1.935 | 1.955 | 1.670 | 1.750 | 1.848 | 6.99  |
| 45)                                                                             | T | t-1,3-Dichloro... |       |       | 0.414 | 0.392 | 0.418 | 0.393 | 0.414 | 0.406 | 3.12  |
| 46)                                                                             | T | cis-1,3-Dichlo... |       |       | 0.514 | 0.523 | 0.548 | 0.516 | 0.526 | 0.526 | 2.59  |
| 47)                                                                             | T | 1,1,2-Trichlor... |       |       | 0.426 | 0.429 | 0.426 | 0.361 | 0.375 | 0.403 | 8.12  |
| 48)                                                                             | T | Dibromochlorom... |       |       | 0.618 | 0.667 | 0.667 | 0.594 | 0.613 | 0.632 | 5.25  |
| 49)                                                                             | T | Bromoform         |       |       | 0.553 | 0.551 | 0.588 | 0.525 | 0.526 | 0.549 | 4.68  |
| 50)                                                                             | T | 4-Methyl-2-Pen... |       |       | 0.996 | 0.974 | 0.975 | 1.014 | 1.079 | 1.008 | 4.27  |
| 51)                                                                             | T | 2-Hexanone        |       |       | 0.577 | 0.570 | 0.608 | 0.834 | 0.879 | 0.693 | 21.69 |
| 52)                                                                             | T | Tetrachloroethene | 0.322 | 0.374 | 0.380 | 0.383 | 0.385 | 0.327 | 0.337 | 0.358 | 7.88  |
| 53)                                                                             | T | Toluene           |       |       | 1.150 | 1.210 | 1.284 | 1.088 | 1.118 | 1.170 | 6.67  |
| 54)                                                                             | T | 1,2-Dibromoethane |       | 0.563 | 0.556 | 0.553 | 0.586 | 0.500 | 0.514 | 0.545 | 5.87  |
| -----ISTD-----                                                                  |   |                   |       |       |       |       |       |       |       |       |       |
| 55)                                                                             | I | Chlorobenzene-d5  |       |       |       |       |       |       |       |       |       |
| 56)                                                                             |   | 1,1,1,2-Tetrac... |       |       | 0.607 | 0.596 | 0.595 | 0.505 | 0.524 | 0.565 | 8.37  |
| 57)                                                                             | T | Chlorobenzene     |       |       | 1.102 | 1.113 | 1.121 | 0.910 | 0.938 | 1.037 | 10.02 |
| 58)                                                                             | T | Ethyl Benzene     |       |       | 1.886 | 1.906 | 1.974 | 1.694 | 1.749 | 1.842 | 6.31  |
| 59)                                                                             | T | m/p-Xylene        |       |       | 1.488 | 1.550 | 1.580 | 1.330 | 1.380 | 1.466 | 7.35  |
| 60)                                                                             | T | o-Xylene          |       |       | 1.572 | 1.550 | 1.577 | 1.317 | 1.351 | 1.473 | 8.68  |
| 61)                                                                             | T | Styrene           |       |       | 0.659 | 0.719 | 0.738 | 0.658 | 0.690 | 0.693 | 5.18  |
| 62)                                                                             |   | Isopropylbenzene  |       |       | 2.299 | 2.339 | 2.399 | 1.969 | 2.026 | 2.207 | 8.84  |
| 63)                                                                             | T | 1,1,2,2-Tetrac... | 0.999 | 0.975 | 1.026 | 1.041 | 1.031 | 0.848 | 0.872 | 0.970 | 8.13  |
| 64)                                                                             |   | n-propylbenzene   |       |       | 0.596 | 0.607 | 0.632 | 0.524 | 0.535 | 0.579 | 8.11  |
| 65)                                                                             |   | tert-Butylbenzene |       |       | 2.080 | 2.251 | 2.222 | 1.733 | 1.753 | 2.008 | 12.47 |
| 66)                                                                             | T | Benzyl Chloride   |       |       | 0.141 | 0.159 | 0.163 | 0.153 | 0.150 | 0.153 | 5.40  |
| 67)                                                                             |   | sec-Butylbenzene  |       |       | 2.973 | 3.229 | 3.182 | 2.482 | 2.494 | 2.872 | 12.65 |
| 68)                                                                             | S | 1-Bromo-4-Fluo... | 0.773 | 0.760 | 0.768 | 0.777 | 0.765 | 0.764 | 0.779 | 0.769 | 0.92  |
| 69)                                                                             |   | p-Isopropyltol... |       |       | 2.240 | 2.533 | 2.575 | 2.021 | 2.056 | 2.285 | 11.38 |
| 70)                                                                             |   | n-Butylbenzene    |       |       | 2.332 | 2.567 | 2.572 | 2.070 | 2.120 | 2.332 | 10.20 |
| 71)                                                                             |   | 2-Chlorotoluene   |       |       | 1.758 | 1.829 | 1.853 | 1.514 | 1.551 | 1.701 | 9.30  |
| 72)                                                                             | T | 4-Ethyltoluene    |       |       | 1.775 | 1.944 | 1.985 | 1.621 | 1.670 | 1.799 | 8.99  |
| 73)                                                                             | T | 1,3,5-Trimethy... |       |       | 1.592 | 1.732 | 1.696 | 1.381 | 1.400 | 1.560 | 10.47 |
| 74)                                                                             | T | 1,2,4-Trimethy... |       |       | 1.855 | 1.982 | 1.990 | 1.471 | 1.488 | 1.757 | 14.76 |
| 75)                                                                             | T | 1,3-Dichlorobe... |       |       | 1.112 | 1.110 | 1.083 | 0.869 | 0.882 | 1.011 | 12.30 |
| 76)                                                                             | T | 1,4-Dichlorobe... |       |       | 1.120 | 1.061 | 1.092 | 0.861 | 0.886 | 1.004 | 12.07 |
| 77)                                                                             | T | 1,2-Dichlorobe... |       |       | 1.059 | 1.097 | 1.063 | 0.836 | 0.852 | 0.981 | 12.88 |
| 78)                                                                             | T | Hexachloro-1,3... |       |       | 0.840 | 0.832 | 0.844 | 0.637 | 0.666 | 0.764 | 13.53 |
| 79)                                                                             | T | Naphthalene       |       | 0.841 | 0.978 | 1.237 | 1.352 | 1.371 | 1.450 | 1.205 | 20.15 |
| 80)                                                                             | T | Naphthalene,2-... |       |       | 0.090 | 0.142 | 0.240 | 0.562 | 0.615 | 0.330 | 73.74 |
| 81)                                                                             | T | 1,2,4-Trichlor... |       |       | 0.589 | 0.687 | 0.765 | 0.644 | 0.673 | 0.671 | 9.58  |

(#) = Out of Range



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042041.D  
 Acq On : 25 Feb 2025 08:56  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

### Manual Integrations APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025  
 Supervised By :Semsettin Yesilyurt 03/06/2025

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.800  | 49    | 161135   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.978  | 114   | 422655   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.901  | 117   | 374249   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.393 | 95    | 285943   | 9.263    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 92.600%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 152005   | 5.480    | ppbv   | 99       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 211185   | 6.887    | ppbv   | 96       |
| 4) Chloromethane              | 1.538  | 50    | 55364    | 5.136    | ppbv   | 98       |
| 5) Vinyl Chloride             | 1.586  | 62    | 54228    | 4.207    | ppbv   | 98       |
| 6) Bromomethane               | 1.674  | 94    | 25846    | 5.173    | ppbv   | 90       |
| 7) Chloroethane               | 1.709  | 64    | 21717    | 5.169    | ppbv   | 96       |
| 8) Dichlorotetrafluoroethane  | 1.560  | 85    | 125595   | 5.147    | ppbv   | 94       |
| 9) Propene                    | 1.489  | 41    | 84038    | 6.357    | ppbv   | 97       |
| 10) Heptane                   | 5.007  | 43    | 267860   | 7.296    | ppbv   | 97       |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 152112   | 5.449    | ppbv   | 96       |
| 12) 1,1,2-Trichlorotrifluo... | 2.146  | 101   | 112374   | 5.162    | ppbv   | 93       |
| 13) Ethanol                   | 1.729  | 45    | 3178     | 2.131    | ppbv   | 85       |
| 14) Bromoethene               | 1.787  | 108   | 42461    | 5.223    | ppbv   | 99       |
| 15) Acetone                   | 1.842  | 43    | 115085   | 4.327    | ppbv   | 95       |
| 16) 1,3-Butadiene             | 1.615  | 39    | 57707    | 4.574    | ppbv   | 100      |
| 17) tert-Butyl alcohol        | 2.049  | 59    | 153073   | 4.651    | ppbv   | 100      |
| 18) 1,1-Dichloroethene        | 2.043  | 96    | 51534    | 4.954    | ppbv   | 95       |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 67445    | 4.522    | ppbv   | 98       |
| 20) Methylene Chloride        | 2.069  | 84    | 41998    | 4.195    | ppbv   | 94       |
| 21) Allyl Chloride            | 2.104  | 41    | 86723    | 4.504    | ppbv   | 99       |
| 22) trans-1,2-Dichloroethene  | 2.350  | 96    | 57617    | 5.104    | ppbv   | 96       |
| 23) Vinyl Acetate             | 2.473  | 43    | 83866    | 5.823    | ppbv   | 98       |
| 24) 1,1-Dichloroethane        | 2.418  | 63    | 107817   | 4.704    | ppbv   | 100      |
| 25) Ethyl Acetate             | 2.852  | 43    | 511505   | 7.007    | ppbv   | 99       |
| 26) Hexane                    | 2.839  | 57    | 206577   | 7.052    | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.159  | 76    | 137978   | 5.008    | ppbv   | 97       |
| 28) Methyl tert-Butyl Ether   | 2.450  | 73    | 84091    | 4.696    | ppbv   | 98       |
| 29) Chloroform                | 2.862  | 83    | 277411   | 6.538    | ppbv   | 96       |
| 30) Cyclohexane               | 3.875  | 84    | 173351   | 7.295    | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene    | 2.732  | 61    | 199354   | 6.886    | ppbv   | 98       |
| 32) 1,1,1-Trichloroethane     | 3.383  | 97    | 285335   | 6.064    | ppbv   | 98       |
| 34) 2-Butanone                | 2.570  | 43    | 292449   | 8.043    | ppbv   | 100      |
| 35) Carbon Tetrachloride      | 3.781  | 117   | 276677   | 6.741    | ppbv   | 97       |
| 36) Benzene                   | 3.674  | 78    | 409501   | 7.999    | ppbv   | 98       |
| 37) 1,2-Dichloroethane        | 3.234  | 62    | 219829   | 7.543    | ppbv   | 100      |
| 38) Trichloroethene           | 4.570  | 130   | 159933   | 7.689    | ppbv   | 93       |
| 39) 1,2-Dichloropropane       | 4.337  | 63    | 151036   | 8.047    | ppbv   | 99       |
| 40) 1,4-Dioxane               | 4.609  | 88    | 69399    | 7.105    | ppbv # | 76       |
| 41) Tetrahydrofuran           | 3.072  | 42    | 176830   | 8.509    | ppbv   | 95       |
| 42) Bromodichloromethane      | 4.512  | 83    | 312250   | 7.908    | ppbv   | 97       |
| 43) Methyl Methacrylate       | 4.907  | 69    | 165494   | 7.091    | ppbv   | 97       |
| 44) 2,2,4-Trimethylpentane    | 4.661  | 57    | 705920   | 8.122    | ppbv   | 97       |
| 45) t-1,3-Dichloropropene     | 6.444  | 75    | 166207   | 7.544    | ppbv   | 91       |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042041.D  
 Acq On : 25 Feb 2025 08:56  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Feb 25 10:10:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

Manual Integrations  
 APPROVED

Reviewed By :Mahesh Dadoda 03/06/2025  
 Supervised By :Semsettin Yesilyurt 03/06/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.629  | 75   | 218294   | 7.809  | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 6.610  | 97   | 152556   | 7.723  | ppbv   | 97       |
| 48) Dibromochloromethane      | 7.412  | 129  | 251213   | 7.593  | ppbv   | 99       |
| 49) Bromoform                 | 9.503  | 173  | 222057   | 8.183  | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.787  | 43   | 428434   | 7.666  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.464  | 43   | 352331   | 7.709  | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.244  | 164  | 138263   | 7.743  | ppbv   | 94       |
| 53) Toluene                   | 6.959  | 91   | 460041   | 7.541  | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 7.678  | 107  | 211395   | 7.772  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.943  | 131  | 188811   | 7.049  | ppbv   | 97       |
| 57) Chlorobenzene             | 8.940  | 112  | 340525   | 7.735  | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.374  | 91   | 633939   | 7.739  | ppbv   | 98       |
| 59) m/p-Xylene                | 9.552  | 91   | 995259m  | 15.427 | ppbv   |          |
| 60) o-Xylene                  | 9.982  | 91   | 493069   | 7.557  | ppbv   | 97       |
| 61) Styrene                   | 9.888  | 104  | 246161   | 7.912  | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.555 | 105  | 736884   | 7.522  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83   | 317313   | 7.538  | ppbv   | 100      |
| 64) n-propylbenzene           | 11.005 | 120  | 196044   | 8.145  | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.545 | 119  | 648698   | 7.596  | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.630 | 91   | 57345    | 6.699  | ppbv # | 97       |
| 67) sec-Butylbenzene          | 11.782 | 105  | 928863   | 7.744  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 756264   | 7.702  | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.296 | 91   | 774646   | 8.009  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.918 | 91   | 566619   | 7.681  | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.141 | 105  | 606538   | 7.934  | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.219 | 105  | 516875   | 7.838  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.552 | 105  | 550412   | 7.777  | ppbv   | 98       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 325160   | 8.535  | ppbv   | 97       |
| 76) 1,4-Dichlorobenzene       | 11.685 | 146  | 322404   | 8.678  | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 312942   | 8.593  | ppbv   | 96       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 238217   | 7.907  | ppbv   | 100      |
| 79) Naphthalene               | 13.526 | 128  | 513192   | 7.372  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 210405   | 6.676  | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 241031   | 8.517  | ppbv   | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

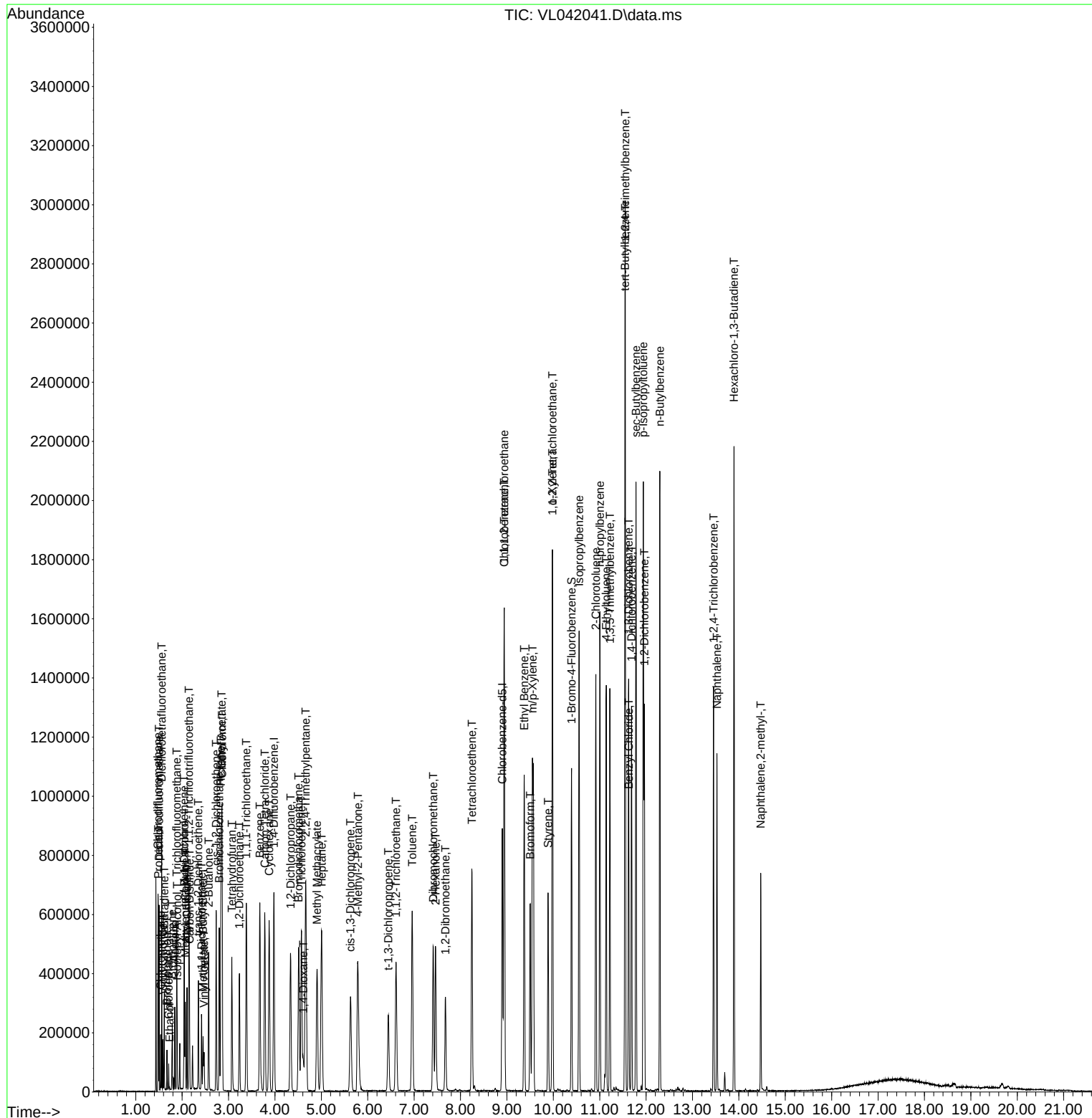
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042041.D  
 Acq On : 25 Feb 2025 08:56  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Feb 25 10:10:59 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
 QLast Update : Tue Feb 18 00:13:37 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Mahesh Dadoda 03/06/2025  
 Supervised By : Semsettin Yesilyurt 03/06/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042042.D  
 Acq On : 25 Feb 2025 09:29  
 Operator : SY/MD  
 Sample : VSTDIC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.800  | 49    | 160999   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.981  | 114   | 427051   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.901  | 117   | 377910   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.393 | 95    | 289049   | 9.273    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 92.700%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.505  | 85    | 35122    | 1.267    | ppbv   | 95       |
| 3) Chlorodifluoromethane      | 1.483  | 51    | 49423    | 1.613    | ppbv   | 94       |
| 4) Chloromethane              | 1.538  | 50    | 12833    | 1.192    | ppbv # | 87       |
| 5) Vinyl Chloride             | 1.586  | 62    | 11611    | 0.902    | ppbv   | 97       |
| 6) Bromomethane               | 1.674  | 94    | 5996     | 1.201    | ppbv   | 97       |
| 7) Chloroethane               | 1.712  | 64    | 5014     | 1.195    | ppbv   | 90       |
| 8) Dichlorotetrafluoroethane  | 1.560  | 85    | 29028    | 1.191    | ppbv   | 99       |
| 9) Propene                    | 1.489  | 41    | 20484    | 1.551    | ppbv   | 95       |
| 10) Heptane                   | 5.004  | 43    | 63098    | 1.720    | ppbv   | 94       |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 36041    | 1.292    | ppbv   | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.149  | 101   | 27846    | 1.280    | ppbv   | 90       |
| 13) Ethanol                   | 1.729  | 45    | 1291     | 0.866    | ppbv   | 91       |
| 14) Bromoethene               | 1.790  | 108   | 9642     | 1.187    | ppbv   | 93       |
| 15) Acetone                   | 1.842  | 43    | 30058    | 1.131    | ppbv   | 100      |
| 16) 1,3-Butadiene             | 1.615  | 39    | 13471    | 1.069    | ppbv   | 100      |
| 17) tert-Butyl alcohol        | 2.052  | 59    | 38684    | 1.176    | ppbv   | 96       |
| 18) 1,1-Dichloroethene        | 2.043  | 96    | 12417    | 1.195    | ppbv   | 93       |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 17927    | 1.203    | ppbv   | 96       |
| 20) Methylene Chloride        | 2.072  | 84    | 10587    | 1.058    | ppbv # | 80       |
| 21) Allyl Chloride            | 2.107  | 41    | 20564    | 1.069    | ppbv   | 96       |
| 22) trans-1,2-Dichloroethene  | 2.350  | 96    | 14475    | 1.283    | ppbv   | 81       |
| 23) Vinyl Acetate             | 2.473  | 43    | 22394    | 1.556    | ppbv # | 94       |
| 24) 1,1-Dichloroethane        | 2.421  | 63    | 27804    | 1.214    | ppbv   | 99       |
| 25) Ethyl Acetate             | 2.852  | 43    | 121593   | 1.667    | ppbv   | 100      |
| 26) Hexane                    | 2.839  | 57    | 48912    | 1.671    | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.159  | 76    | 33222    | 1.207    | ppbv # | 57       |
| 28) Methyl tert-Butyl Ether   | 2.457  | 73    | 26968    | 1.507    | ppbv   | 100      |
| 29) Chloroform                | 2.865  | 83    | 63463    | 1.497    | ppbv   | 92       |
| 30) Cyclohexane               | 3.878  | 84    | 40420    | 1.702    | ppbv   | 98       |
| 31) cis-1,2-Dichloroethene    | 2.732  | 61    | 46690    | 1.614    | ppbv   | 96       |
| 32) 1,1,1-Trichloroethane     | 3.386  | 97    | 62586    | 1.331    | ppbv   | 97       |
| 34) 2-Butanone                | 2.573  | 43    | 69370    | 1.888    | ppbv   | 96       |
| 35) Carbon Tetrachloride      | 3.784  | 117   | 61895    | 1.493    | ppbv   | 97       |
| 36) Benzene                   | 3.677  | 78    | 94277    | 1.822    | ppbv   | 98       |
| 37) 1,2-Dichloroethane        | 3.237  | 62    | 51050    | 1.734    | ppbv   | 99       |
| 38) Trichloroethene           | 4.574  | 130   | 38184    | 1.817    | ppbv   | 99       |
| 39) 1,2-Dichloropropane       | 4.341  | 63    | 35396    | 1.866    | ppbv   | 95       |
| 40) 1,4-Dioxane               | 4.622  | 88    | 15442    | 1.565    | ppbv # | 28       |
| 41) Tetrahydrofuran           | 3.075  | 42    | 40365    | 1.922    | ppbv   | 96       |
| 42) Bromodichloromethane      | 4.512  | 83    | 69154    | 1.733    | ppbv   | 94       |
| 43) Methyl Methacrylate       | 4.910  | 69    | 36393    | 1.543    | ppbv   | 94       |
| 44) 2,2,4-Trimethylpentane    | 4.664  | 57    | 166945   | 1.901    | ppbv   | 97       |
| 45) t-1,3-Dichloropropene     | 6.448  | 75    | 35707    | 1.604    | ppbv   | 93       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042042.D  
 Acq On : 25 Feb 2025 09:29  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

Quant Time: Feb 25 10:12:18 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Feb 18 00:13:37 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.632  | 75   | 46835    | 1.658 | ppbv   | 93       |
| 47) 1,1,2-Trichloroethane     | 6.613  | 97   | 36368    | 1.822 | ppbv   | 93       |
| 48) Dibromochloromethane      | 7.412  | 129  | 56931    | 1.703 | ppbv   | 99       |
| 49) Bromoform                 | 9.503  | 173  | 50259    | 1.833 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.797  | 43   | 83246    | 1.474 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.470  | 43   | 51926    | 1.124 | ppbv # | 94       |
| 52) Tetrachloroethene         | 8.244  | 164  | 32874    | 1.822 | ppbv   | 95       |
| 53) Toluene                   | 6.962  | 91   | 109646   | 1.779 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.678  | 107  | 50010    | 1.820 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.946  | 131  | 44947    | 1.662 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.943  | 112  | 84749    | 1.906 | ppbv   | 95       |
| 58) Ethyl Benzene             | 9.374  | 91   | 149185   | 1.804 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.568  | 91   | 238800m  | 3.666 | ppbv   |          |
| 60) o-Xylene                  | 9.982  | 91   | 119170   | 1.809 | ppbv   | 97       |
| 61) Styrene                   | 9.888  | 104  | 55798    | 1.776 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.555 | 105  | 181311   | 1.833 | ppbv   | 97       |
| 63) 1,1,2,2-Tetrachloroethane | 9.982  | 83   | 77911    | 1.833 | ppbv   | 96       |
| 64) n-propylbenzene           | 11.005 | 120  | 47764    | 1.965 | ppbv   | 92       |
| 65) tert-Butylbenzene         | 11.545 | 119  | 167973   | 1.948 | ppbv   | 96       |
| 66) Benzyl Chloride           | 11.630 | 91   | 12304    | 1.423 | ppbv # | 98       |
| 67) sec-Butylbenzene          | 11.782 | 105  | 240504   | 1.986 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 194660   | 1.963 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.296 | 91   | 194416   | 1.991 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.917 | 91   | 140068   | 1.880 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.141 | 105  | 150038   | 1.944 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.218 | 105  | 128202   | 1.925 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.549 | 105  | 150380   | 2.104 | ppbv # | 88       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 81884    | 2.129 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.688 | 146  | 82560    | 2.201 | ppbv   | 97       |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 80367    | 2.186 | ppbv   | 96       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 63815    | 2.098 | ppbv   | 99       |
| 79) Naphthalene               | 13.526 | 128  | 102197   | 1.454 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.475 | 142  | 18104    | 0.569 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 57798    | 2.023 | ppbv   | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042043.D  
 Acq On : 25 Feb 2025 10:00  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.800 | 49   | 161096   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.978 | 114  | 423363   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.898 | 117  | 369917   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.390 95 287450 9.420 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.200%

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 17457  | 0.629 | ppbv   | 95     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 25229  | 0.823 | ppbv   | 98     |
| 4) Chloromethane              | 1.538 | 50  | 6417   | 0.595 | ppbv # | 75     |
| 5) Vinyl Chloride             | 1.586 | 62  | 5567   | 0.432 | ppbv   | 96     |
| 6) Bromomethane               | 1.674 | 94  | 2966   | 0.594 | ppbv   | 100    |
| 7) Chloroethane               | 1.709 | 64  | 2542   | 0.605 | ppbv   | 96     |
| 8) Dichlorotetrafluoroethane  | 1.560 | 85  | 14655  | 0.601 | ppbv   | 90     |
| 9) Propene                    | 1.486 | 41  | 10156  | 0.768 | ppbv   | 96     |
| 10) Heptane                   | 4.998 | 43  | 31354m | 0.854 | ppbv   |        |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 18079  | 0.648 | ppbv   | 98     |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 14527  | 0.667 | ppbv   | 92     |
| 13) Ethanol                   | 1.725 | 45  | 915m   | 0.614 | ppbv   |        |
| 14) Bromoethene               | 1.787 | 108 | 4905   | 0.604 | ppbv # | 95     |
| 15) Acetone                   | 1.845 | 43  | 15468  | 0.582 | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.615 | 39  | 7010   | 0.556 | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.052 | 59  | 19092  | 0.580 | ppbv   | 97     |
| 18) 1,1-Dichloroethene        | 2.043 | 96  | 7042   | 0.677 | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 9191   | 0.616 | ppbv # | 32     |
| 20) Methylene Chloride        | 2.068 | 84  | 6026   | 0.602 | ppbv   | 95     |
| 21) Allyl Chloride            | 2.104 | 41  | 11550  | 0.600 | ppbv   | 95     |
| 22) trans-1,2-Dichloroethene  | 2.347 | 96  | 8145m  | 0.722 | ppbv   |        |
| 23) Vinyl Acetate             | 2.473 | 43  | 9893   | 0.687 | ppbv # | 91     |
| 24) 1,1-Dichloroethane        | 2.418 | 63  | 13783  | 0.601 | ppbv   | 98     |
| 25) Ethyl Acetate             | 2.852 | 43  | 59183  | 0.811 | ppbv   | 99     |
| 26) Hexane                    | 2.836 | 57  | 23549  | 0.804 | ppbv   | 96     |
| 27) Carbon Disulfide          | 2.159 | 76  | 15659  | 0.568 | ppbv # | 46     |
| 28) Methyl tert-Butyl Ether   | 2.454 | 73  | 13593  | 0.759 | ppbv   | 95     |
| 29) Chloroform                | 2.861 | 83  | 32925  | 0.776 | ppbv   | 94     |
| 30) Cyclohexane               | 3.874 | 84  | 19953  | 0.840 | ppbv   | 97     |
| 31) cis-1,2-Dichloroethene    | 2.732 | 61  | 22565  | 0.780 | ppbv   | 97     |
| 32) 1,1,1-Trichloroethane     | 3.386 | 97  | 30870  | 0.656 | ppbv   | 96     |
| 34) 2-Butanone                | 2.570 | 43  | 33820  | 0.929 | ppbv   | 99     |
| 35) Carbon Tetrachloride      | 3.777 | 117 | 30618  | 0.745 | ppbv   | 90     |
| 36) Benzene                   | 3.674 | 78  | 45892  | 0.895 | ppbv   | 96     |
| 37) 1,2-Dichloroethane        | 3.234 | 62  | 25585  | 0.876 | ppbv   | 99     |
| 38) Trichloroethene           | 4.570 | 130 | 18921  | 0.908 | ppbv   | 91     |
| 39) 1,2-Dichloropropane       | 4.334 | 63  | 17557  | 0.934 | ppbv   | 94     |
| 40) 1,4-Dioxane               | 4.619 | 88  | 8319m  | 0.850 | ppbv   |        |
| 41) Tetrahydrofuran           | 3.075 | 42  | 20823  | 1.000 | ppbv   | 96     |
| 42) Bromodichloromethane      | 4.515 | 83  | 33481  | 0.847 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.907 | 69  | 17679  | 0.756 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.661 | 57  | 81921  | 0.941 | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.444 | 75  | 16578m | 0.751 | ppbv   |        |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042043.D  
 Acq On : 25 Feb 2025 10:00  
 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Quant Time: Feb 25 10:27:35 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Feb 25 10:15:00 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.632  | 75   | 22127m   | 0.790 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.616  | 97   | 18160m   | 0.918 | ppbv   |          |
| 48) Dibromochloromethane      | 7.412  | 129  | 28239    | 0.852 | ppbv   | 97       |
| 49) Bromoform                 | 9.500  | 173  | 23310    | 0.858 | ppbv   | 94       |
| 50) 4-Methyl-2-Pentanone      | 5.791  | 43   | 41249m   | 0.737 | ppbv   |          |
| 51) 2-Hexanone                | 7.470  | 43   | 24117    | 0.527 | ppbv # | 97       |
| 52) Tetrachloroethene         | 8.241  | 164  | 16217    | 0.907 | ppbv   | 89       |
| 53) Toluene                   | 6.959  | 91   | 51231    | 0.838 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.674  | 107  | 23427    | 0.860 | ppbv   | 94       |
| 56) 1,1,1,2-Tetrachloroethane | 8.943  | 131  | 22060    | 0.833 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.937  | 112  | 41173    | 0.946 | ppbv   | 96       |
| 58) Ethyl Benzene             | 9.370  | 91   | 70507    | 0.871 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.568  | 91   | 114691m  | 1.799 | ppbv   |          |
| 60) o-Xylene                  | 9.979  | 91   | 57322    | 0.889 | ppbv   | 99       |
| 61) Styrene                   | 9.885  | 104  | 26596    | 0.865 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.555 | 105  | 86533    | 0.894 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83   | 38520    | 0.926 | ppbv   | 98       |
| 64) n-propylbenzene           | 11.002 | 120  | 22456    | 0.944 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.545 | 119  | 83284    | 0.987 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.626 | 91   | 5880m    | 0.695 | ppbv   |          |
| 67) sec-Butylbenzene          | 11.782 | 105  | 119435   | 1.007 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 93710    | 0.966 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.293 | 91   | 94969    | 0.993 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.914 | 91   | 67655    | 0.928 | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.137 | 105  | 71906    | 0.952 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 64087    | 0.983 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.549 | 105  | 73323    | 1.048 | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 11.620 | 146  | 41063    | 1.091 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.685 | 146  | 39235    | 1.068 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.960 | 146  | 40574    | 1.127 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 30764    | 1.033 | ppbv   | 99       |
| 79) Naphthalene               | 13.526 | 128  | 45743    | 0.665 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 5244     | 0.168 | ppbv   | 94       |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 25404    | 0.908 | ppbv   | 95       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

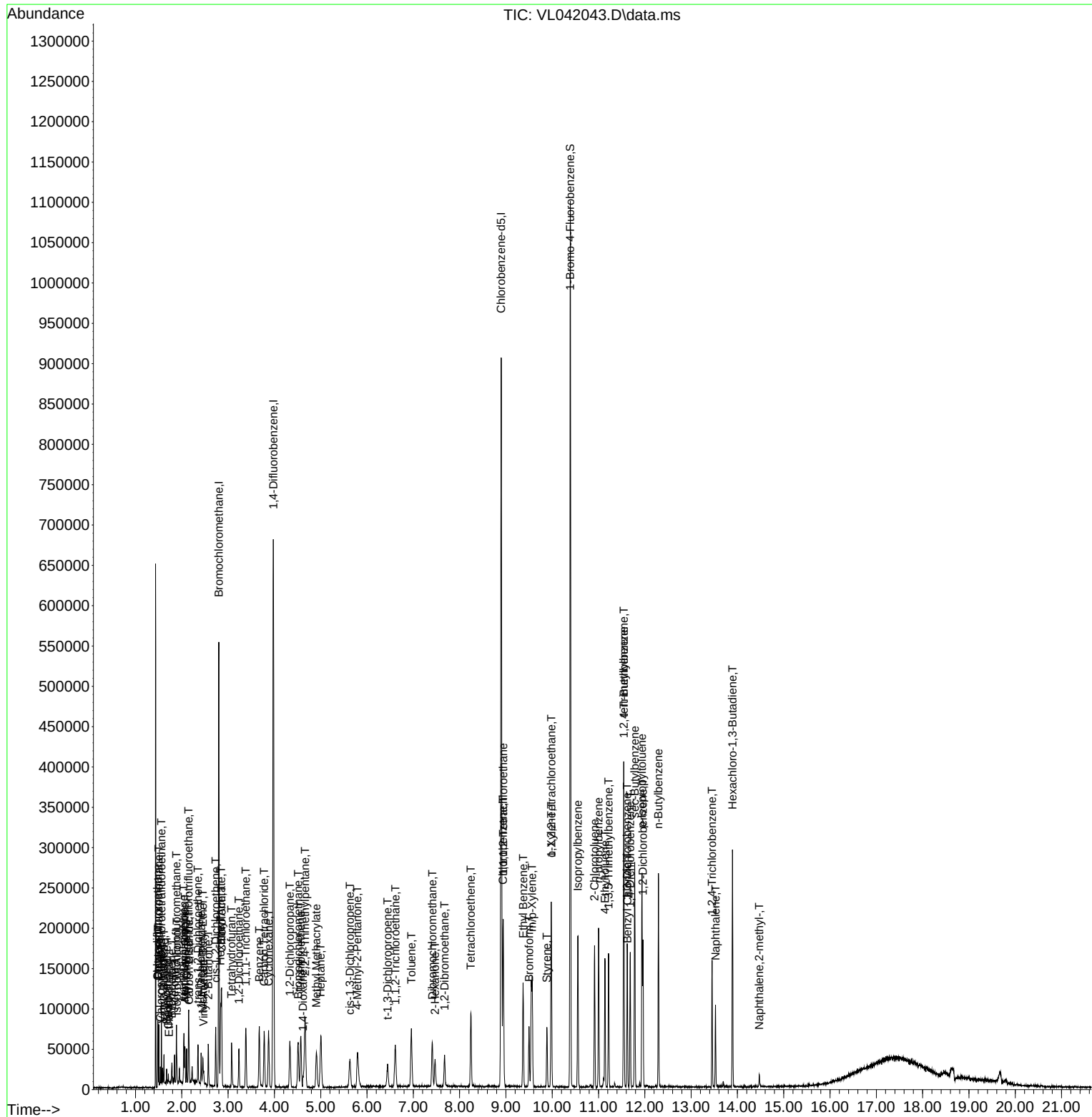
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042043.D  
Acq On : 25 Feb 2025 10:00  
Operator : SY/MD  
Sample : VSTDIC001  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Quant Time: Feb 25 10:27:35 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Feb 25 10:15:00 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
Supervised By : Mahesh Dadoda 02/26/2025





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042044.D  
 Acq On : 25 Feb 2025 10:31  
 Operator : SY/MD  
 Sample : VSTDIC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.797  | 49    | 159644   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.975  | 114   | 421340   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.898  | 117   | 365954   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.390 | 95    | 281042   | 9.310    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 93.100%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 8852     | 0.322    | ppbv   | 98       |
| 3) Chlorodifluoromethane      | 1.479  | 51    | 11921    | 0.392    | ppbv   | 94       |
| 4) Chloromethane              | 1.537  | 50    | 3497     | 0.327    | ppbv # | 88       |
| 5) Vinyl Chloride             | 1.583  | 62    | 3005     | 0.235    | ppbv   | 98       |
| 6) Bromomethane               | 1.673  | 94    | 1359     | 0.275    | ppbv   | 92       |
| 7) Chloroethane               | 1.709  | 64    | 1205     | 0.290    | ppbv   | 89       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 7123     | 0.295    | ppbv   | 99       |
| 9) Propene                    | 1.486  | 41    | 4904     | 0.374    | ppbv   | 94       |
| 10) Heptane                   | 5.004  | 43    | 15731    | 0.432    | ppbv   | 98       |
| 11) Trichlorofluoromethane    | 1.884  | 101   | 8429     | 0.305    | ppbv   | 92       |
| 12) 1,1,2-Trichlorotrifluo... | 2.146  | 101   | 7336     | 0.340    | ppbv   | 98       |
| 13) Ethanol                   | 1.725  | 45    | 426      | 0.288    | ppbv   | 75       |
| 14) Bromoethene               | 1.787  | 108   | 2598     | 0.323    | ppbv # | 89       |
| 15) Acetone                   | 1.842  | 43    | 8655     | 0.328    | ppbv   | 96       |
| 16) 1,3-Butadiene             | 1.615  | 39    | 3803     | 0.304    | ppbv   | 97       |
| 17) tert-Butyl alcohol        | 2.049  | 59    | 9447     | 0.290    | ppbv # | 90       |
| 18) 1,1-Dichloroethene        | 2.039  | 96    | 3173     | 0.308    | ppbv   | 94       |
| 19) Isopropyl Alcohol         | 1.894  | 45    | 4481     | 0.303    | ppbv # | 32       |
| 20) Methylene Chloride        | 2.068  | 84    | 3423     | 0.345    | ppbv   | 97       |
| 21) Allyl Chloride            | 2.104  | 41    | 5640     | 0.296    | ppbv   | 100      |
| 22) trans-1,2-Dichloroethene  | 2.347  | 96    | 3838m    | 0.343    | ppbv   |          |
| 23) Vinyl Acetate             | 2.473  | 43    | 5499     | 0.385    | ppbv # | 86       |
| 24) 1,1-Dichloroethane        | 2.418  | 63    | 7396     | 0.326    | ppbv # | 88       |
| 25) Ethyl Acetate             | 2.848  | 43    | 30593    | 0.423    | ppbv   | 98       |
| 26) Hexane                    | 2.832  | 57    | 12739    | 0.439    | ppbv   | 98       |
| 27) Carbon Disulfide          | 2.159  | 76    | 8316     | 0.305    | ppbv # | 15       |
| 28) Methyl tert-Butyl Ether   | 2.450  | 73    | 5185     | 0.292    | ppbv # | 80       |
| 29) Chloroform                | 2.858  | 83    | 17278    | 0.411    | ppbv   | 93       |
| 30) Cyclohexane               | 3.874  | 84    | 9209     | 0.391    | ppbv   | 88       |
| 31) cis-1,2-Dichloroethene    | 2.729  | 61    | 11344    | 0.395    | ppbv   | 97       |
| 32) 1,1,1-Trichloroethane     | 3.382  | 97    | 15027    | 0.322    | ppbv   | 93       |
| 34) 2-Butanone                | 2.570  | 43    | 17555    | 0.484    | ppbv   | 99       |
| 35) Carbon Tetrachloride      | 3.780  | 117   | 14223    | 0.348    | ppbv   | 90       |
| 36) Benzene                   | 3.670  | 78    | 22728    | 0.445    | ppbv   | 95       |
| 37) 1,2-Dichloroethane        | 3.230  | 62    | 13141    | 0.452    | ppbv   | 100      |
| 38) Trichloroethene           | 4.570  | 130   | 9115     | 0.440    | ppbv # | 87       |
| 39) 1,2-Dichloropropane       | 4.331  | 63    | 8877m    | 0.474    | ppbv   |          |
| 40) 1,4-Dioxane               | 4.622  | 88    | 4046m    | 0.416    | ppbv   |          |
| 41) Tetrahydrofuran           | 3.078  | 42    | 9880     | 0.477    | ppbv   | 98       |
| 42) Bromodichloromethane      | 4.505  | 83    | 16973    | 0.431    | ppbv # | 96       |
| 43) Methyl Methacrylate       | 4.904  | 69    | 8428     | 0.362    | ppbv   | 93       |
| 44) 2,2,4-Trimethylpentane    | 4.661  | 57    | 40623    | 0.469    | ppbv   | 98       |
| 45) t-1,3-Dichloropropene     | 6.441  | 75    | 8720m    | 0.397    | ppbv   |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042044.D  
 Acq On : 25 Feb 2025 10:31  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Feb 25 10:56:41 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025  
 Supervised By :Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.629  | 75   | 10834m   | 0.389 | ppbv   |          |
| 47) 1,1,2-Trichloroethane     | 6.609  | 97   | 8982m    | 0.456 | ppbv   |          |
| 48) Dibromochloromethane      | 7.406  | 129  | 13014m   | 0.395 | ppbv   |          |
| 49) Bromoform                 | 9.496  | 173  | 11640    | 0.430 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.794  | 43   | 20992m   | 0.377 | ppbv   |          |
| 51) 2-Hexanone                | 7.470  | 43   | 12149m   | 0.267 | ppbv   |          |
| 52) Tetrachloroethene         | 8.241  | 164  | 8012     | 0.450 | ppbv   | 95       |
| 53) Toluene                   | 6.956  | 91   | 24224    | 0.398 | ppbv   | 96       |
| 54) 1,2-Dibromoethane         | 7.674  | 107  | 11718m   | 0.432 | ppbv   |          |
| 56) 1,1,1,2-Tetrachloroethane | 8.940  | 131  | 11100    | 0.424 | ppbv # | 61       |
| 57) Chlorobenzene             | 8.936  | 112  | 20167    | 0.468 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.370  | 91   | 34506    | 0.431 | ppbv   | 90       |
| 59) m/p-Xylene                | 9.568  | 91   | 54449m   | 0.863 | ppbv   |          |
| 60) o-Xylene                  | 9.979  | 91   | 28757    | 0.451 | ppbv   | 95       |
| 61) Styrene                   | 9.885  | 104  | 12051    | 0.396 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.552 | 105  | 42074    | 0.439 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.975  | 83   | 18774    | 0.456 | ppbv   | 96       |
| 64) n-propylbenzene           | 11.001 | 120  | 10900    | 0.463 | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.542 | 119  | 38066    | 0.456 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.626 | 91   | 2589     | 0.309 | ppbv # | 96       |
| 67) sec-Butylbenzene          | 11.778 | 105  | 54394    | 0.464 | ppbv   | 97       |
| 69) p-Isopropyltoluene        | 11.937 | 119  | 40978    | 0.427 | ppbv   | 95       |
| 70) n-Butylbenzene            | 12.293 | 91   | 42673    | 0.451 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.914 | 91   | 32161    | 0.446 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.137 | 105  | 32477    | 0.434 | ppbv # | 95       |
| 73) 1,3,5-Trimethylbenzene    | 11.215 | 105  | 29130    | 0.452 | ppbv   | 91       |
| 74) 1,2,4-Trimethylbenzene    | 11.548 | 105  | 33950    | 0.491 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.616 | 146  | 20339    | 0.546 | ppbv   | 96       |
| 76) 1,4-Dichlorobenzene       | 11.684 | 146  | 20492    | 0.564 | ppbv   | 93       |
| 77) 1,2-Dichlorobenzene       | 11.959 | 146  | 19373    | 0.544 | ppbv   | 96       |
| 78) Hexachloro-1,3-Butadiene  | 13.892 | 225  | 15367    | 0.522 | ppbv   | 99       |
| 79) Naphthalene               | 13.523 | 128  | 17897    | 0.263 | ppbv # | 95       |
| 80) Naphthalene,2-methyl-     | 14.478 | 142  | 1646     | 0.053 | ppbv # | 81       |
| 81) 1,2,4-Trichlorobenzene    | 13.452 | 180  | 10771    | 0.389 | ppbv   | 94       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042045.D  
 Acq On : 25 Feb 2025 11:03  
 Operator : SY/MD  
 Sample : VSTDIC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

Quant Time: Feb 25 12:33:08 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Bromochloromethane         | 2.803  | 49    | 161406   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.981  | 114   | 414875   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5          | 8.904  | 117   | 363831   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.393 | 95    | 276484   | 9.213    | ppbv   | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =      | 92.100%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Vinyl Chloride             | 1.586  | 62    | 543      | 0.042    | ppbv # | 88       |
| 32) 1,1,1-Trichloroethane     | 3.386  | 97    | 3026     | 0.064    | ppbv # | 86       |
| 35) Carbon Tetrachloride      | 3.787  | 117   | 2923m    | 0.073    | ppbv   |          |
| 38) Trichloroethene           | 4.577  | 130   | 1915m    | 0.094    | ppbv   |          |
| 52) Tetrachloroethene         | 8.254  | 164   | 1552m    | 0.089    | ppbv   |          |
| 54) 1,2-Dibromoethane         | 7.678  | 107   | 2335m    | 0.087    | ppbv   |          |
| 63) 1,1,2,2-Tetrachloroethane | 9.982  | 83    | 3549m    | 0.087    | ppbv   |          |
| 79) Naphthalene               | 13.529 | 128   | 3058     | 0.045    | ppbv # | 91       |
| -----                         |        |       |          |          |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

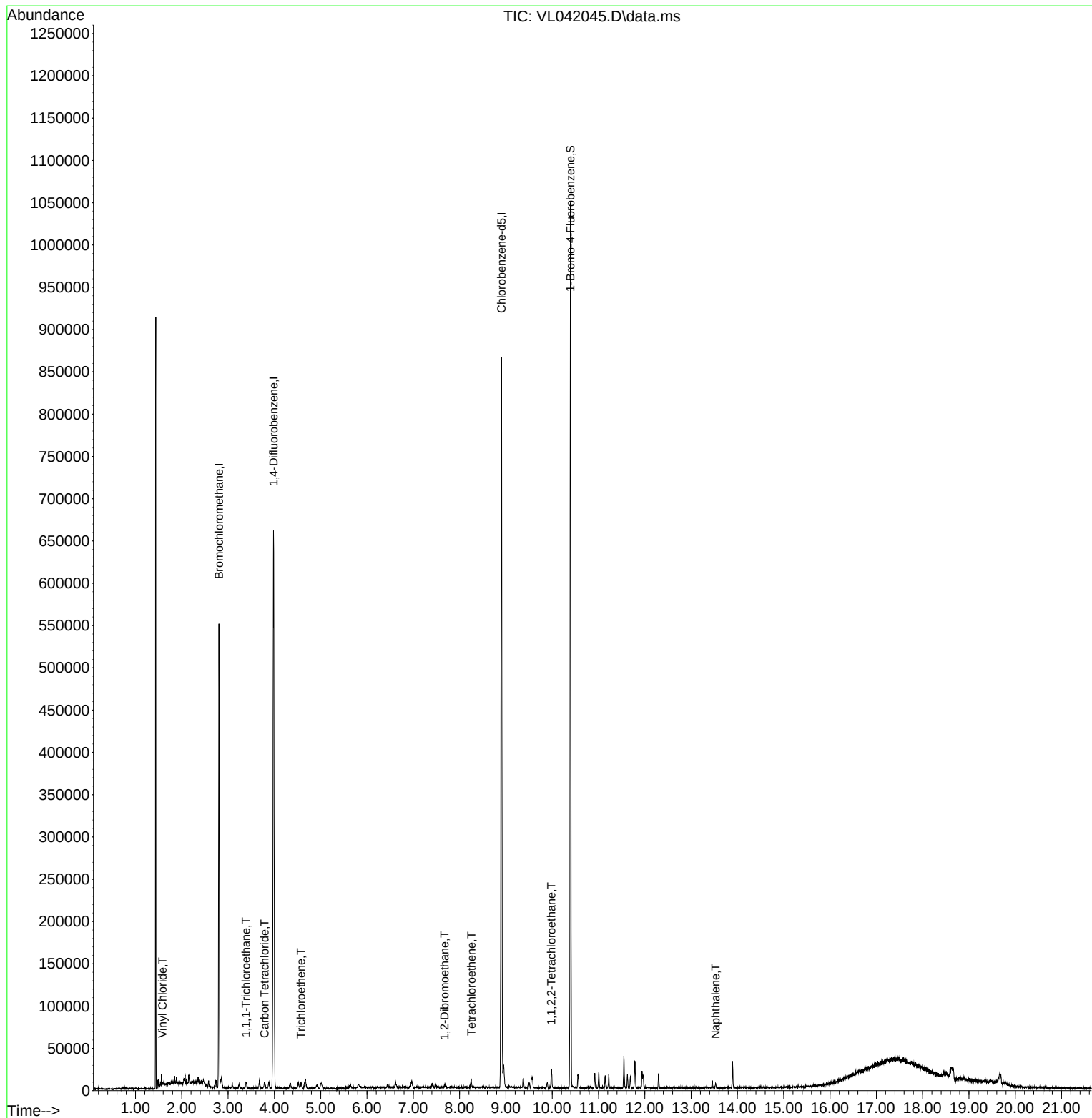
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042045.D  
Acq On : 25 Feb 2025 11:03  
Operator : SY/MD  
Sample : VSTDICC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.1

Quant Time: Feb 25 12:33:08 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Feb 25 10:31:48 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
Supervised By : Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042046.D  
Acq On : 25 Feb 2025 11:34  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Feb 25 12:34:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 2  
QLast Update : Tue Feb 25 10:31:48 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min)  |
|-------------------------------|--------|-------|----------|----------|-------|-----------|
| Internal Standards            |        |       |          |          |       |           |
| 1) Bromochloromethane         | 2.797  | 49    | 160156   | 10.000   | ppbv  | 0.00      |
| 33) 1,4-Difluorobenzene       | 3.975  | 114   | 410900   | 10.000   | ppbv  | 0.00      |
| 55) Chlorobenzene-d5          | 8.898  | 117   | 353154   | 10.000   | ppbv  | 0.00      |
| System Monitoring Compounds   |        |       |          |          |       |           |
| 68) 1-Bromo-4-Fluorobenzene   | 10.390 | 95    | 272906   | 9.368    | ppbv  | 0.00      |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 93.700%   |
| Target Compounds              |        |       |          |          |       |           |
| 5) Vinyl Chloride             | 1.586  | 62    | 215      | 0.017    | ppbv  | Qvalue 89 |
| 32) 1,1,1-Trichloroethane     | 3.379  | 97    | 923m     | 0.020    | ppbv  |           |
| 35) Carbon Tetrachloride      | 3.784  | 117   | 818m     | 0.021    | ppbv  |           |
| 38) Trichloroethene           | 4.577  | 130   | 551m     | 0.027    | ppbv  |           |
| 52) Tetrachloroethene         | 8.237  | 164   | 397m     | 0.023    | ppbv  |           |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83    | 1058m    | 0.027    | ppbv  |           |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

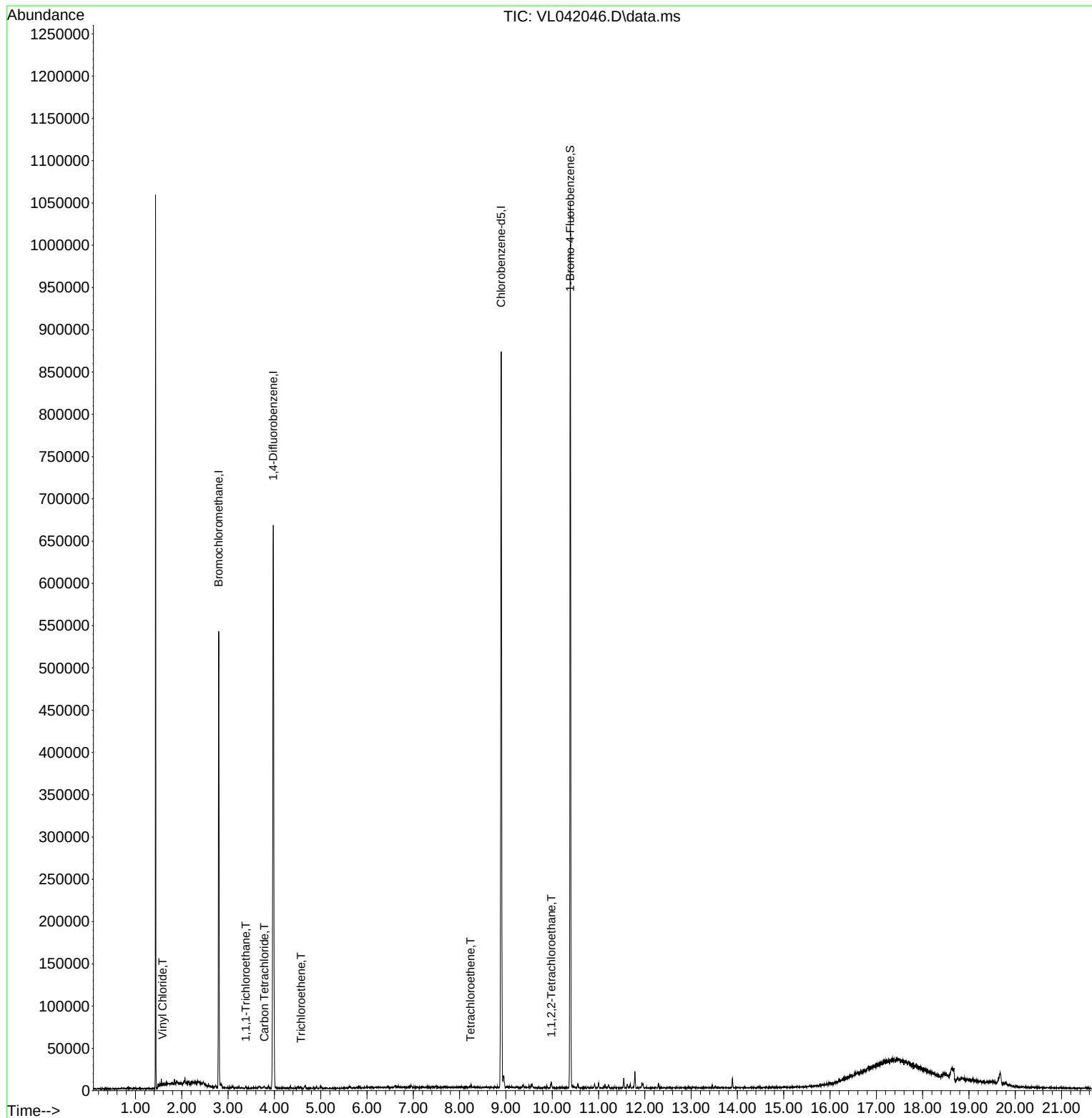
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042046.D  
Acq On : 25 Feb 2025 11:34  
Operator : SY/MD  
Sample : VSTDICC0.03  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Quant Time: Feb 25 12:34:19 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug  
QLast Update : Tue Feb 25 10:31:48 2025  
Response via : Initial Calibration

Manual Integrations  
APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
Supervised By : Mahesh Dadoda 02/26/2025



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042047.D  
 Acq On : 25 Feb 2025 12:07  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.800 | 49   | 159015   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.978 | 114  | 401919   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.904 | 117  | 351637   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 273846 9.441 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 94.400%

#### Target Compounds

|                               |       |     |         |        |        | Qvalue |
|-------------------------------|-------|-----|---------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 231978  | 8.474  | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 324821  | 10.733 | ppbv   | 100    |
| 4) Chloromethane              | 1.537 | 50  | 82097   | 7.718  | ppbv   | 98     |
| 5) Vinyl Chloride             | 1.586 | 62  | 81863   | 6.436  | ppbv   | 99     |
| 6) Bromomethane               | 1.673 | 94  | 39366   | 7.983  | ppbv   | 97     |
| 7) Chloroethane               | 1.709 | 64  | 33329   | 8.039  | ppbv   | 92     |
| 8) Dichlorotetrafluoroethane  | 1.560 | 85  | 188716  | 7.837  | ppbv   | 98     |
| 9) Propene                    | 1.489 | 41  | 133086  | 10.201 | ppbv   | 97     |
| 10) Heptane                   | 5.004 | 43  | 400418  | 11.052 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 230938  | 8.383  | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 184306  | 8.579  | ppbv   | 99     |
| 13) Ethanol                   | 1.725 | 45  | 4281    | 2.909  | ppbv   | 100    |
| 14) Bromoethene               | 1.787 | 108 | 65496   | 8.164  | ppbv   | 99     |
| 15) Acetone                   | 1.842 | 43  | 172538  | 6.574  | ppbv   | 98     |
| 16) 1,3-Butadiene             | 1.615 | 39  | 87490   | 7.027  | ppbv   | 100    |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 239569  | 7.377  | ppbv   | 98     |
| 18) 1,1-Dichloroethene        | 2.042 | 96  | 80535   | 7.845  | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 102365  | 6.955  | ppbv   | 99     |
| 20) Methylene Chloride        | 2.068 | 84  | 66282   | 6.709  | ppbv   | 98     |
| 21) Allyl Chloride            | 2.104 | 41  | 140726  | 7.406  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.350 | 96  | 94321   | 8.466  | ppbv   | 95     |
| 23) Vinyl Acetate             | 2.473 | 43  | 139727  | 9.831  | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 2.418 | 63  | 180882  | 7.997  | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.848 | 43  | 767353  | 10.652 | ppbv   | 99     |
| 26) Hexane                    | 2.839 | 57  | 306864  | 10.615 | ppbv   | 99     |
| 27) Carbon Disulfide          | 2.159 | 76  | 224609  | 8.261  | ppbv   | 98     |
| 28) Methyl tert-Butyl Ether   | 2.453 | 73  | 168058  | 9.510  | ppbv   | 98     |
| 29) Chloroform                | 2.861 | 83  | 409240  | 9.774  | ppbv   | 100    |
| 30) Cyclohexane               | 3.874 | 84  | 256687  | 10.946 | ppbv   | 98     |
| 31) cis-1,2-Dichloroethene    | 2.732 | 61  | 299324  | 10.476 | ppbv   | 96     |
| 32) 1,1,1-Trichloroethane     | 3.386 | 97  | 417615  | 8.994  | ppbv   | 98     |
| 34) 2-Butanone                | 2.570 | 43  | 457602  | 13.234 | ppbv   | 98     |
| 35) Carbon Tetrachloride      | 3.780 | 117 | 410730  | 10.524 | ppbv   | 96     |
| 36) Benzene                   | 3.674 | 78  | 602107  | 12.367 | ppbv   | 97     |
| 37) 1,2-Dichloroethane        | 3.233 | 62  | 335275  | 12.097 | ppbv   | 99     |
| 38) Trichloroethene           | 4.573 | 130 | 228298  | 11.542 | ppbv   | 98     |
| 39) 1,2-Dichloropropane       | 4.337 | 63  | 228418  | 12.797 | ppbv   | 98     |
| 40) 1,4-Dioxane               | 4.609 | 88  | 104519  | 11.253 | ppbv # | 96     |
| 41) Tetrahydrofuran           | 3.068 | 42  | 271202  | 13.724 | ppbv   | 100    |
| 42) Bromodichloromethane      | 4.512 | 83  | 461272  | 12.285 | ppbv   | 96     |
| 43) Methyl Methacrylate       | 4.907 | 69  | 246468  | 11.105 | ppbv   | 97     |
| 44) 2,2,4-Trimethylpentane    | 4.667 | 57  | 1054880 | 12.763 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.444 | 75  | 249612  | 11.914 | ppbv   | 95     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042047.D  
 Acq On : 25 Feb 2025 12:07  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Feb 25 12:35:10 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Tue Feb 25 10:31:48 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.635  | 75   | 317266   | 11.935 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.609  | 97   | 226021   | 12.032 | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.412  | 129  | 369666   | 11.750 | ppbv   | 99       |
| 49) Bromoform                 | 9.503  | 173  | 317322   | 12.297 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.787  | 43   | 650307   | 12.237 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.461  | 43   | 530165   | 12.198 | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.247  | 164  | 203233   | 11.968 | ppbv   | 94       |
| 53) Toluene                   | 6.959  | 91   | 673822   | 11.615 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.677  | 107  | 309982   | 11.985 | ppbv   | 95       |
| 56) 1,1,1,2-Tetrachloroethane | 8.946  | 131  | 276326   | 10.979 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.943  | 112  | 494606   | 11.957 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.373  | 91   | 922265   | 11.984 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.571  | 91   | 1456036m | 24.020 | ppbv   |          |
| 60) o-Xylene                  | 9.982  | 91   | 712735   | 11.626 | ppbv   | 99       |
| 61) Styrene                   | 9.888  | 104  | 363855   | 12.446 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.558 | 105  | 1068777  | 11.612 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.982  | 83   | 459839   | 11.626 | ppbv   | 100      |
| 64) n-propylbenzene           | 11.005 | 120  | 282364   | 12.486 | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.548 | 119  | 924810   | 11.526 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.633 | 91   | 78975    | 9.819  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.785 | 105  | 1315730  | 11.674 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 1084253  | 11.752 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.296 | 91   | 1118373  | 12.306 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.917 | 91   | 818204   | 11.804 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.141 | 105  | 880883   | 12.264 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.218 | 105  | 738619   | 11.921 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.552 | 105  | 784701   | 11.801 | ppbv   | 91       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 465436   | 13.003 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.688 | 146  | 467249   | 13.386 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 449222   | 13.129 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 351085   | 12.403 | ppbv   | 100      |
| 79) Naphthalene               | 13.526 | 128  | 764990   | 11.696 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 324431   | 10.956 | ppbv   | 99       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 354990   | 13.351 | ppbv   | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042048.D  
 Acq On : 25 Feb 2025 13:15  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 02/26/2025  
 Supervised By : Mahesh Dadoda 02/26/2025

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.800 | 49   | 158881   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.981 | 114  | 406520   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.904 | 117  | 350262   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.393 95 274527 10.188 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.900%

#### Target Compounds

|                               |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.505 | 85  | 158709 | 9.606 | ppbv   | 99     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 219646 | 9.512 | ppbv   | 100    |
| 4) Chloromethane              | 1.537 | 50  | 54628  | 8.941 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.586 | 62  | 52672  | 9.114 | ppbv   | 98     |
| 6) Bromomethane               | 1.673 | 94  | 25374  | 9.221 | ppbv   | 100    |
| 7) Chloroethane               | 1.709 | 64  | 22174  | 9.443 | ppbv # | 87     |
| 8) Dichlorotetrafluoroethane  | 1.560 | 85  | 127046 | 9.354 | ppbv   | 100    |
| 9) Propene                    | 1.489 | 41  | 90844  | 9.657 | ppbv   | 96     |
| 10) Heptane                   | 5.010 | 43  | 269133 | 9.188 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 156871 | 9.476 | ppbv   | 100    |
| 12) 1,1,2-Trichlorotrifluo... | 2.149 | 101 | 115089 | 8.715 | ppbv   | 99     |
| 13) Ethanol                   | 1.728 | 45  | 2630   | 4.404 | ppbv   | 98     |
| 14) Bromoethene               | 1.790 | 108 | 43546  | 9.338 | ppbv   | 98     |
| 15) Acetone                   | 1.842 | 43  | 118697 | 8.460 | ppbv   | 97     |
| 16) 1,3-Butadiene             | 1.615 | 39  | 61603  | 9.434 | ppbv   | 98     |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 154116 | 8.779 | ppbv   | 98     |
| 18) 1,1-Dichloroethene        | 2.042 | 96  | 51973  | 8.711 | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.894 | 45  | 69546  | 8.629 | ppbv   | 96     |
| 20) Methylene Chloride        | 2.072 | 84  | 42028  | 7.919 | ppbv   | 96     |
| 21) Allyl Chloride            | 2.104 | 41  | 90745  | 8.951 | ppbv   | 98     |
| 22) trans-1,2-Dichloroethene  | 2.350 | 96  | 59140  | 8.502 | ppbv   | 98     |
| 23) Vinyl Acetate             | 2.476 | 43  | 93605  | 9.488 | ppbv # | 98     |
| 24) 1,1-Dichloroethane        | 2.421 | 63  | 112869 | 8.721 | ppbv   | 100    |
| 25) Ethyl Acetate             | 2.852 | 43  | 533113 | 9.492 | ppbv   | 99     |
| 26) Hexane                    | 2.839 | 57  | 208955 | 9.203 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.159 | 76  | 138176 | 8.978 | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 2.453 | 73  | 94554  | 8.365 | ppbv   | 100    |
| 29) Chloroform                | 2.865 | 83  | 281191 | 9.202 | ppbv   | 97     |
| 30) Cyclohexane               | 3.878 | 84  | 168830 | 9.161 | ppbv   | 94     |
| 31) cis-1,2-Dichloroethene    | 2.735 | 61  | 199564 | 9.285 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.386 | 97  | 278512 | 9.396 | ppbv   | 98     |
| 34) 2-Butanone                | 2.570 | 43  | 308064 | 9.727 | ppbv   | 97     |
| 35) Carbon Tetrachloride      | 3.784 | 117 | 276599 | 9.867 | ppbv   | 98     |
| 36) Benzene                   | 3.677 | 78  | 399804 | 9.395 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.233 | 62  | 223946 | 9.491 | ppbv   | 99     |
| 38) Trichloroethene           | 4.573 | 130 | 156488 | 9.005 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.340 | 63  | 152063 | 9.414 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.616 | 88  | 65010  | 8.817 | ppbv # | 98     |
| 41) Tetrahydrofuran           | 3.072 | 42  | 181453 | 9.696 | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.512 | 83  | 305385 | 9.606 | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.910 | 69  | 160954 | 9.685 | ppbv   | 95     |
| 44) 2,2,4-Trimethylpentane    | 4.667 | 57  | 712051 | 9.480 | ppbv   | 99     |
| 45) t-1,3-Dichloropropene     | 6.447 | 75  | 159680 | 9.671 | ppbv   | 90     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042048.D  
 Acq On : 25 Feb 2025 13:15  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL022525

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 02/26/2025  
 Supervised By :Mahesh Dadoda 02/26/2025

Quant Time: Feb 26 01:31:59 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.635  | 75   | 206836   | 9.680  | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.613  | 97   | 148220   | 9.039  | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.412  | 129  | 241593   | 9.407  | ppbv   | 100      |
| 49) Bromoform                 | 9.503  | 173  | 210370   | 9.432  | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.790  | 43   | 431123   | 10.526 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.464  | 43   | 354515   | 12.576 | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.247  | 164  | 134062   | 9.202  | ppbv   | 97       |
| 53) Toluene                   | 6.962  | 91   | 448495   | 9.430  | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.677  | 107  | 206335   | 9.307  | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.946  | 131  | 182800   | 9.234  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.943  | 112  | 334696   | 9.216  | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.377  | 91   | 613622   | 9.513  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.571  | 91   | 977425m  | 19.041 | ppbv   |          |
| 60) o-Xylene                  | 9.985  | 91   | 481683   | 9.334  | ppbv   | 100      |
| 61) Styrene                   | 9.891  | 104  | 241617   | 9.959  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.558 | 105  | 729350   | 9.437  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.982  | 83   | 312794   | 9.204  | ppbv   | 99       |
| 64) n-propylbenzene           | 11.008 | 120  | 192704   | 9.506  | ppbv   | 99       |
| 65) tert-Butylbenzene         | 11.548 | 119  | 632202   | 8.988  | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.633 | 91   | 52645    | 9.808  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.785 | 105  | 914405   | 9.090  | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.940 | 119  | 753761   | 9.418  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.296 | 91   | 781034   | 9.560  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.917 | 91   | 559993   | 9.399  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.144 | 105  | 602156   | 9.557  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.222 | 105  | 505451   | 9.248  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.555 | 105  | 547176   | 8.891  | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 324491   | 9.161  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.688 | 146  | 322712   | 9.176  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.963 | 146  | 312159   | 9.081  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.895 | 225  | 228480   | 8.543  | ppbv   | 99       |
| 79) Naphthalene               | 13.529 | 128  | 513148   | 12.160 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.474 | 142  | 198077   | 17.152 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.455 | 180  | 234354   | 9.965  | ppbv   | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
 Data File : VL042048.D  
 Acq On : 25 Feb 2025 13:15  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL022525

Quant Time: Feb 26 01:31:59 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Feb 26 01:08:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000  | 0.0   | 99    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 1.040 | 0.999  | 3.9   | 104   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.453 | 1.382  | 4.9   | 104   | 0.00     |
| 4    | Chloromethane               | 0.385 | 0.344  | 10.6  | 99    | 0.00     |
| 5 T  | Vinyl Chloride              | 0.364 | 0.332  | 8.8   | 97    | 0.00     |
| 6 T  | Bromomethane                | 0.173 | 0.160  | 7.5   | 98    | 0.00     |
| 7    | Chloroethane                | 0.148 | 0.140  | 5.4   | 102   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 0.855 | 0.800  | 6.4   | 101   | 0.00     |
| 9 T  | Propene                     | 0.592 | 0.572  | 3.4   | 108   | 0.00     |
| 10 T | Heptane                     | 1.844 | 1.694  | 8.1   | 100   | 0.00     |
| 11 T | Trichlorofluoromethane      | 1.042 | 0.987  | 5.3   | 103   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.831 | 0.724  | 12.9  | 102   | 0.00     |
| 13   | Ethanol                     | 0.038 | 0.017# | 55.3# | 83    | 0.00     |
| 14 T | Bromoethene                 | 0.293 | 0.274  | 6.5   | 103   | 0.00     |
| 15 T | Acetone                     | 0.883 | 0.747  | 15.4  | 103   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.411 | 0.388  | 5.6   | 107   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.105 | 0.970  | 12.2  | 101   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 0.376 | 0.327  | 13.0  | 101   | 0.00     |
| 19 T | Isopropyl Alcohol           | 0.507 | 0.438  | 13.6  | 103   | 0.00     |
| 20 T | Methylene Chloride          | 0.334 | 0.265  | 20.7  | 100   | 0.00     |
| 21 T | Allyl Chloride              | 0.638 | 0.571  | 10.5  | 105   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 0.438 | 0.372  | 15.1  | 103   | 0.00     |
| 23 T | Vinyl Acetate               | 0.621 | 0.589  | 5.2   | 112   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 0.815 | 0.710  | 12.9  | 105   | 0.00     |
| 25 T | Ethyl Acetate               | 3.535 | 3.355  | 5.1   | 104   | 0.00     |
| 26 T | Hexane                      | 1.429 | 1.315  | 8.0   | 101   | 0.00     |
| 27 T | Carbon Disulfide            | 0.969 | 0.870  | 10.2  | 100   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 0.711 | 0.595  | 16.3  | 112   | 0.00     |
| 29 T | Chloroform                  | 1.923 | 1.770  | 8.0   | 101   | 0.00     |
| 30 T | Cyclohexane                 | 1.160 | 1.063  | 8.4   | 97    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 1.353 | 1.256  | 7.2   | 100   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 1.866 | 1.753  | 6.1   | 98    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 96    | 0.00     |
| 34 T | 2-Butanone                  | 0.779 | 0.758  | 2.7   | 105   | 0.00     |
| 35 T | Carbon Tetrachloride        | 0.690 | 0.680  | 1.4   | 100   | 0.00     |
| 36 T | Benzene                     | 1.047 | 0.983  | 6.1   | 98    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 0.580 | 0.551  | 5.0   | 102   | 0.00     |
| 38 T | Trichloroethene             | 0.427 | 0.385  | 9.8   | 98    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 0.397 | 0.374  | 5.8   | 101   | 0.00     |
| 40 T | 1,4-Dioxane                 | 0.181 | 0.160  | 11.6  | 94    | 0.00     |
| 41 T | Tetrahydrofuran             | 0.460 | 0.446  | 3.0   | 103   | 0.00     |
| 42 T | Bromodichloromethane        | 0.782 | 0.751  | 4.0   | 98    | 0.00     |
| 43   | Methyl Methacrylate         | 0.409 | 0.396  | 3.2   | 97    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 1.848 | 1.752  | 5.2   | 101   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 0.406 | 0.393  | 3.2   | 96    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 0.526 | 0.509  | 3.2   | 95    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 0.403 | 0.365  | 9.4   | 97    | 0.00     |
| 48 T | Dibromochloromethane        | 0.632 | 0.594  | 6.0   | 96    | 0.00     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042048.D  
Acq On : 25 Feb 2025 13:15  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL022525

Quant Time: Feb 26 01:31:59 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|---------------------------|-------|-------|--------|-------|----------|
| 49 T | Bromoform                 | 0.549 | 0.517 | 5.8    | 95    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 1.008 | 1.061 | -5.3   | 101   | 0.00     |
| 51 T | 2-Hexanone                | 0.693 | 0.872 | -25.8  | 101   | 0.00     |
| 52 T | Tetrachloroethene         | 0.358 | 0.330 | 7.8    | 97    | 0.00     |
| 53 T | Toluene                   | 1.170 | 1.103 | 5.7    | 97    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 0.545 | 0.508 | 6.8    | 98    | 0.00     |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 94    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 0.565 | 0.522 | 7.6    | 97    | 0.00     |
| 57 T | Chlorobenzene             | 1.037 | 0.956 | 7.8    | 98    | 0.00     |
| 58 T | Ethyl Benzene             | 1.842 | 1.752 | 4.9    | 97    | 0.00     |
| 59 T | m/p-Xylene                | 1.466 | 1.395 | 4.8    | 98    | 0.02     |
| 60 T | o-Xylene                  | 1.473 | 1.375 | 6.7    | 98    | 0.00     |
| 61 T | Styrene                   | 0.693 | 0.690 | 0.4    | 98    | 0.00     |
| 62   | Isopropylbenzene          | 2.207 | 2.082 | 5.7    | 99    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.970 | 0.893 | 7.9    | 99    | 0.00     |
| 64   | n-propylbenzene           | 0.579 | 0.550 | 5.0    | 98    | 0.00     |
| 65   | tert-Butylbenzene         | 2.008 | 1.805 | 10.1   | 97    | 0.00     |
| 66 T | Benzyl Chloride           | 0.153 | 0.150 | 2.0    | 92    | 0.00     |
| 67   | sec-Butylbenzene          | 2.872 | 2.611 | 9.1    | 98    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.769 | 0.784 | -2.0   | 96    | 0.00     |
| 69   | p-Isopropyltoluene        | 2.285 | 2.152 | 5.8    | 100   | 0.00     |
| 70   | n-Butylbenzene            | 2.332 | 2.230 | 4.4    | 101   | 0.00     |
| 71   | 2-Chlorotoluene           | 1.701 | 1.599 | 6.0    | 99    | 0.00     |
| 72 T | 4-Ethyltoluene            | 1.799 | 1.719 | 4.4    | 99    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 1.560 | 1.443 | 7.5    | 98    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 1.757 | 1.562 | 11.1   | 99    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 1.011 | 0.926 | 8.4    | 100   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 1.004 | 0.921 | 8.3    | 100   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 0.981 | 0.891 | 9.2    | 100   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 0.764 | 0.652 | 14.7   | 96    | 0.00     |
| 79 T | Naphthalene               | 1.205 | 1.465 | -21.6  | 100   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 0.330 | 0.566 | -71.5# | 94    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 0.671 | 0.669 | 0.3    | 97    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042048.D  
Acq On : 25 Feb 2025 13:15  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL022525

Quant Time: Feb 26 01:31:59 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | Amount | Calc.  | %Dev  | Area% | Dev(min) |
|------|-----------------------------|--------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 10.000 | 10.000 | 0.0   | 99    | 0.00     |
| 2 T  | Dichlorodifluoromethane     | 10.000 | 9.606  | 3.9   | 104   | 0.00     |
| 3    | Chlorodifluoromethane       | 10.000 | 9.512  | 4.9   | 104   | 0.00     |
| 4    | Chloromethane               | 10.000 | 8.941  | 10.6  | 99    | 0.00     |
| 5 T  | Vinyl Chloride              | 10.000 | 9.114  | 8.9   | 97    | 0.00     |
| 6 T  | Bromomethane                | 10.000 | 9.221  | 7.8   | 98    | 0.00     |
| 7    | Chloroethane                | 10.000 | 9.443  | 5.6   | 102   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 10.000 | 9.354  | 6.5   | 101   | 0.00     |
| 9 T  | Propene                     | 10.000 | 9.657  | 3.4   | 108   | 0.00     |
| 10 T | Heptane                     | 10.000 | 9.188  | 8.1   | 100   | 0.00     |
| 11 T | Trichlorofluoromethane      | 10.000 | 9.476  | 5.2   | 103   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 10.000 | 8.715  | 12.9  | 102   | 0.00     |
| 13   | Ethanol                     | 10.000 | 4.404  | 56.0# | 83    | 0.00     |
| 14 T | Bromoethene                 | 10.000 | 9.338  | 6.6   | 103   | 0.00     |
| 15 T | Acetone                     | 10.000 | 8.460  | 15.4  | 103   | 0.00     |
| 16 T | 1,3-Butadiene               | 10.000 | 9.434  | 5.7   | 107   | 0.00     |
| 17   | tert-Butyl alcohol          | 10.000 | 8.779  | 12.2  | 101   | 0.00     |
| 18 T | 1,1-Dichloroethene          | 10.000 | 8.711  | 12.9  | 101   | 0.00     |
| 19 T | Isopropyl Alcohol           | 10.000 | 8.629  | 13.7  | 103   | 0.00     |
| 20 T | Methylene Chloride          | 10.000 | 7.919  | 20.8  | 100   | 0.00     |
| 21 T | Allyl Chloride              | 10.000 | 8.951  | 10.5  | 105   | 0.00     |
| 22 T | trans-1,2-Dichloroethene    | 10.000 | 8.502  | 15.0  | 103   | 0.00     |
| 23 T | Vinyl Acetate               | 10.000 | 9.488  | 5.1   | 112   | 0.00     |
| 24 T | 1,1-Dichloroethane          | 10.000 | 8.721  | 12.8  | 105   | 0.00     |
| 25 T | Ethyl Acetate               | 10.000 | 9.492  | 5.1   | 104   | 0.00     |
| 26 T | Hexane                      | 10.000 | 9.203  | 8.0   | 101   | 0.00     |
| 27 T | Carbon Disulfide            | 10.000 | 8.978  | 10.2  | 100   | 0.00     |
| 28 T | Methyl tert-Butyl Ether     | 10.000 | 8.365  | 16.3  | 112   | 0.00     |
| 29 T | Chloroform                  | 10.000 | 9.202  | 8.0   | 101   | 0.00     |
| 30 T | Cyclohexane                 | 10.000 | 9.161  | 8.4   | 97    | 0.00     |
| 31 T | cis-1,2-Dichloroethene      | 10.000 | 9.285  | 7.1   | 100   | 0.00     |
| 32 T | 1,1,1-Trichloroethane       | 10.000 | 9.396  | 6.0   | 98    | 0.00     |
| 33 I | 1,4-Difluorobenzene         | 10.000 | 10.000 | 0.0   | 96    | 0.00     |
| 34 T | 2-Butanone                  | 10.000 | 9.727  | 2.7   | 105   | 0.00     |
| 35 T | Carbon Tetrachloride        | 10.000 | 9.867  | 1.3   | 100   | 0.00     |
| 36 T | Benzene                     | 10.000 | 9.395  | 6.1   | 98    | 0.00     |
| 37 T | 1,2-Dichloroethane          | 10.000 | 9.491  | 5.1   | 102   | 0.00     |
| 38 T | Trichloroethene             | 10.000 | 9.005  | 9.9   | 98    | 0.00     |
| 39 T | 1,2-Dichloropropane         | 10.000 | 9.414  | 5.9   | 101   | 0.00     |
| 40 T | 1,4-Dioxane                 | 10.000 | 8.817  | 11.8  | 94    | 0.00     |
| 41 T | Tetrahydrofuran             | 10.000 | 9.696  | 3.0   | 103   | 0.00     |
| 42 T | Bromodichloromethane        | 10.000 | 9.606  | 3.9   | 98    | 0.00     |
| 43   | Methyl Methacrylate         | 10.000 | 9.685  | 3.1   | 97    | 0.00     |
| 44 T | 2,2,4-Trimethylpentane      | 10.000 | 9.480  | 5.2   | 101   | 0.00     |
| 45 T | t-1,3-Dichloropropene       | 10.000 | 9.671  | 3.3   | 96    | 0.00     |
| 46 T | cis-1,3-Dichloropropene     | 10.000 | 9.680  | 3.2   | 95    | 0.00     |
| 47 T | 1,1,2-Trichloroethane       | 10.000 | 9.039  | 9.6   | 97    | 0.00     |
| 48 T | Dibromochloromethane        | 10.000 | 9.407  | 5.9   | 96    | 0.00     |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL022525\  
Data File : VL042048.D  
Acq On : 25 Feb 2025 13:15  
Operator : SY/MD  
Sample : VSTDICV010  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL022525

Quant Time: Feb 26 01:31:59 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | Amount | Calc.  | %Dev   | Area% | Dev(min) |
|------|---------------------------|--------|--------|--------|-------|----------|
| 49 T | Bromoform                 | 10.000 | 9.432  | 5.7    | 95    | 0.00     |
| 50 T | 4-Methyl-2-Pentanone      | 10.000 | 10.526 | -5.3   | 101   | 0.00     |
| 51 T | 2-Hexanone                | 10.000 | 12.576 | -25.8  | 101   | 0.00     |
| 52 T | Tetrachloroethene         | 10.000 | 9.202  | 8.0    | 97    | 0.00     |
| 53 T | Toluene                   | 10.000 | 9.430  | 5.7    | 97    | 0.00     |
| 54 T | 1,2-Dibromoethane         | 10.000 | 9.307  | 6.9    | 98    | 0.00     |
| 55 I | Chlorobenzene-d5          | 10.000 | 10.000 | 0.0    | 94    | 0.00     |
| 56   | 1,1,1,2-Tetrachloroethane | 10.000 | 9.234  | 7.7    | 97    | 0.00     |
| 57 T | Chlorobenzene             | 10.000 | 9.216  | 7.8    | 98    | 0.00     |
| 58 T | Ethyl Benzene             | 10.000 | 9.513  | 4.9    | 97    | 0.00     |
| 59 T | m/p-Xylene                | 20.000 | 19.041 | 4.8    | 98    | 0.02     |
| 60 T | o-Xylene                  | 10.000 | 9.334  | 6.7    | 98    | 0.00     |
| 61 T | Styrene                   | 10.000 | 9.959  | 0.4    | 98    | 0.00     |
| 62   | Isopropylbenzene          | 10.000 | 9.437  | 5.6    | 99    | 0.00     |
| 63 T | 1,1,2,2-Tetrachloroethane | 10.000 | 9.204  | 8.0    | 99    | 0.00     |
| 64   | n-propylbenzene           | 10.000 | 9.506  | 4.9    | 98    | 0.00     |
| 65   | tert-Butylbenzene         | 10.000 | 8.988  | 10.1   | 97    | 0.00     |
| 66 T | Benzyl Chloride           | 10.000 | 9.808  | 1.9    | 92    | 0.00     |
| 67   | sec-Butylbenzene          | 10.000 | 9.090  | 9.1    | 98    | 0.00     |
| 68 S | 1-Bromo-4-Fluorobenzene   | 10.000 | 10.188 | -1.9   | 96    | 0.00     |
| 69   | p-Isopropyltoluene        | 10.000 | 9.418  | 5.8    | 100   | 0.00     |
| 70   | n-Butylbenzene            | 10.000 | 9.560  | 4.4    | 101   | 0.00     |
| 71   | 2-Chlorotoluene           | 10.000 | 9.399  | 6.0    | 99    | 0.00     |
| 72 T | 4-Ethyltoluene            | 10.000 | 9.557  | 4.4    | 99    | 0.00     |
| 73 T | 1,3,5-Trimethylbenzene    | 10.000 | 9.248  | 7.5    | 98    | 0.00     |
| 74 T | 1,2,4-Trimethylbenzene    | 10.000 | 8.891  | 11.1   | 99    | 0.00     |
| 75 T | 1,3-Dichlorobenzene       | 10.000 | 9.161  | 8.4    | 100   | 0.00     |
| 76 T | 1,4-Dichlorobenzene       | 10.000 | 9.176  | 8.2    | 100   | 0.00     |
| 77 T | 1,2-Dichlorobenzene       | 10.000 | 9.081  | 9.2    | 100   | 0.00     |
| 78 T | Hexachloro-1,3-Butadiene  | 10.000 | 8.543  | 14.6   | 96    | 0.00     |
| 79 T | Naphthalene               | 10.000 | 12.160 | -21.6  | 100   | 0.00     |
| 80 T | Naphthalene,2-methyl-     | 10.000 | 17.152 | -71.5# | 94    | 0.00     |
| 81 T | 1,2,4-Trichlorobenzene    | 10.000 | 9.965  | 0.4    | 97    | 0.00     |

(#) = Out of Range

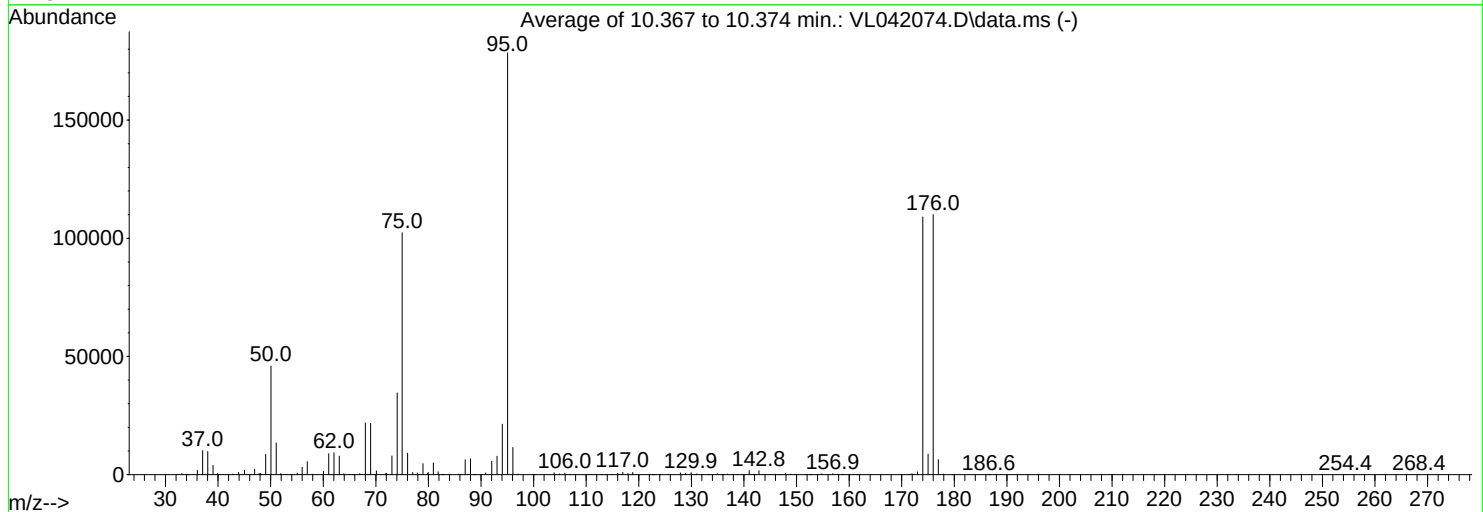
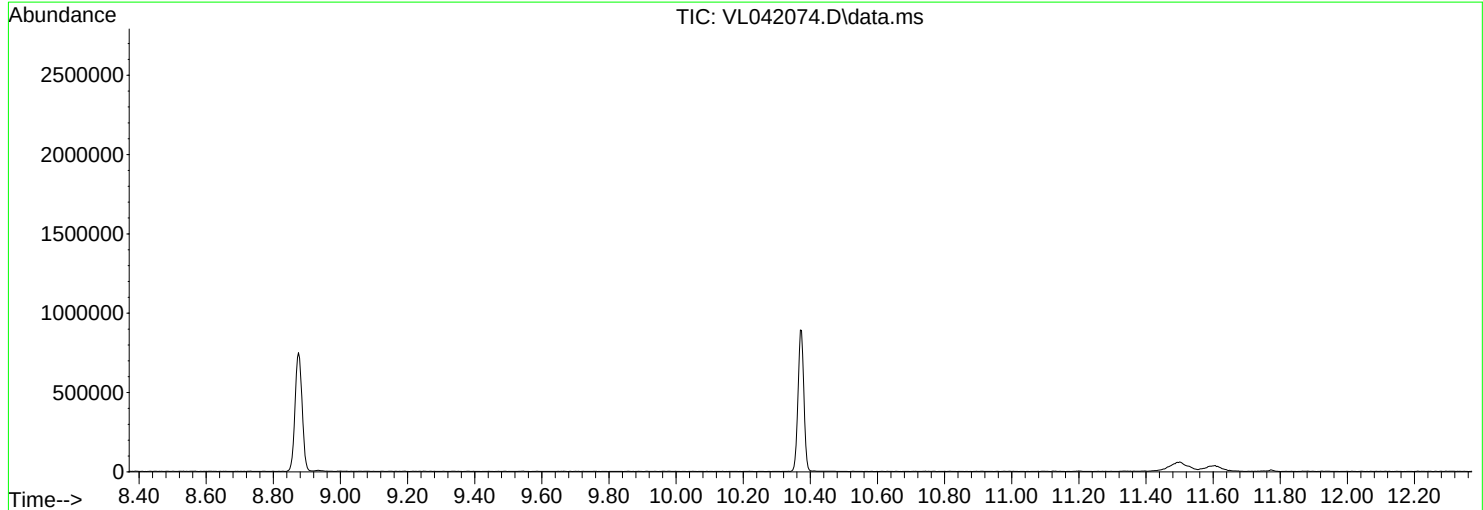
SPCC's out = 0 CCC's out = 0

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042074.D  
 Acq On : 03 Mar 2025 11:45  
 Operator : SY/MD  
 Sample : BFB  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
 Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 Last Update : Wed Feb 26 01:08:36 2025



AutoFind: Scans 3176, 3177, 3178; Background Corrected with Scan 3162

| Target<br>Mass | Rel. to<br>Mass | Lower<br>Limit% | Upper<br>Limit% | Rel.<br>Abn% | Raw<br>Abn | Result<br>Pass/Fail |
|----------------|-----------------|-----------------|-----------------|--------------|------------|---------------------|
| 50             | 95              | 8               | 40              | 25.8         | 45971      | PASS                |
| 75             | 95              | 30              | 66              | 57.4         | 102347     | PASS                |
| 95             | 95              | 100             | 100             | 100.0        | 178453     | PASS                |
| 96             | 95              | 5               | 9               | 6.5          | 11542      | PASS                |
| 173            | 174             | 0.00            | 2               | 1.0          | 1135       | PASS                |
| 174            | 95              | 50              | 120             | 61.1         | 109091     | PASS                |
| 175            | 174             | 4               | 9               | 7.9          | 8641       | PASS                |
| 176            | 174             | 93              | 101             | 100.9        | 110029     | PASS                |
| 177            | 176             | 5               | 9               | 5.8          | 6386       | PASS                |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042075.D  
 Acq On : 03 Mar 2025 12:15  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

### Manual Integrations APPROVED

Reviewed By : Semsettin Yesilyurt 03/04/2025  
 Supervised By : Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:16:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.784 | 49   | 173325   | 10.000 | ppbv  | -0.02    |
| 33) 1,4-Difluorobenzene | 3.952 | 114  | 409365   | 10.000 | ppbv  | -0.03    |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 350236   | 10.000 | ppbv  | -0.03    |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.370 95 273654 10.156 ppbv -0.02  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 101.600%

#### Target Compounds

|                               |       |     |        |        |        | Qvalue |
|-------------------------------|-------|-----|--------|--------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.495 | 85  | 176895 | 9.815  | ppbv   | 98     |
| 3) Chlorodifluoromethane      | 1.473 | 51  | 229308 | 9.103  | ppbv   | 100    |
| 4) Chloromethane              | 1.531 | 50  | 61184  | 9.180  | ppbv   | 99     |
| 5) Vinyl Chloride             | 1.576 | 62  | 60317  | 9.567  | ppbv   | 100    |
| 6) Bromomethane               | 1.664 | 94  | 30156  | 10.045 | ppbv   | 92     |
| 7) Chloroethane               | 1.703 | 64  | 24074  | 9.398  | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.550 | 85  | 144041 | 9.722  | ppbv   | 99     |
| 9) Propene                    | 1.482 | 41  | 95116  | 9.268  | ppbv   | 99     |
| 10) Heptane                   | 4.972 | 43  | 285343 | 8.930  | ppbv   | 96     |
| 11) Trichlorofluoromethane    | 1.874 | 101 | 187492 | 10.382 | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluo... | 2.136 | 101 | 142259 | 9.875  | ppbv   | 98     |
| 13) Ethanol                   | 1.719 | 45  | 3376   | 5.182  | ppbv   | 95     |
| 14) Bromoethene               | 1.780 | 108 | 48570  | 9.548  | ppbv   | 100    |
| 15) Acetone                   | 1.832 | 43  | 133956 | 8.752  | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.605 | 39  | 64990  | 9.124  | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.036 | 59  | 174843 | 9.130  | ppbv   | 97     |
| 18) 1,1-Dichloroethene        | 2.029 | 96  | 62817  | 9.651  | ppbv   | 98     |
| 19) Isopropyl Alcohol         | 1.884 | 45  | 79667  | 9.061  | ppbv   | 100    |
| 20) Methylene Chloride        | 2.059 | 84  | 53086  | 9.169  | ppbv   | 97     |
| 21) Allyl Chloride            | 2.091 | 41  | 107750 | 9.743  | ppbv   | 99     |
| 22) trans-1,2-Dichloroethene  | 2.337 | 96  | 72547  | 9.561  | ppbv   | 93     |
| 23) Vinyl Acetate             | 2.460 | 43  | 89888  | 8.352  | ppbv   | 99     |
| 24) 1,1-Dichloroethane        | 2.405 | 63  | 136644 | 9.678  | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.832 | 43  | 563012 | 9.189  | ppbv   | 99     |
| 26) Hexane                    | 2.822 | 57  | 216702 | 8.749  | ppbv   | 94     |
| 27) Carbon Disulfide          | 2.146 | 76  | 166324 | 9.906  | ppbv   | 97     |
| 28) Methyl tert-Butyl Ether   | 2.437 | 73  | 102443 | 8.307  | ppbv   | 99     |
| 29) Chloroform                | 2.845 | 83  | 294142 | 8.824  | ppbv   | 100    |
| 30) Cyclohexane               | 3.852 | 84  | 170364 | 8.474  | ppbv   | 91     |
| 31) cis-1,2-Dichloroethene    | 2.716 | 61  | 209328 | 8.928  | ppbv   | 95     |
| 32) 1,1,1-Trichloroethane     | 3.363 | 97  | 275584 | 8.522  | ppbv   | 94     |
| 34) 2-Butanone                | 2.554 | 43  | 324639 | 10.179 | ppbv   | 96     |
| 35) Carbon Tetrachloride      | 3.755 | 117 | 281106 | 9.958  | ppbv   | 93     |
| 36) Benzene                   | 3.651 | 78  | 410714 | 9.584  | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.214 | 62  | 235420 | 9.908  | ppbv   | 98     |
| 38) Trichloroethene           | 4.541 | 130 | 154616 | 8.836  | ppbv   | 99     |
| 39) 1,2-Dichloropropane       | 4.308 | 63  | 159010 | 9.776  | ppbv   | 95     |
| 40) 1,4-Dioxane               | 4.577 | 88  | 69401  | 9.347  | ppbv # | 99     |
| 41) Tetrahydrofuran           | 3.052 | 42  | 189509 | 10.057 | ppbv   | 97     |
| 42) Bromodichloromethane      | 4.483 | 83  | 315387 | 9.852  | ppbv   | 97     |
| 43) Methyl Methacrylate       | 4.871 | 69  | 160485 | 9.589  | ppbv   | 92     |
| 44) 2,2,4-Trimethylpentane    | 4.635 | 57  | 731737 | 9.675  | ppbv   | 98     |
| 45) t-1,3-Dichloropropene     | 6.409 | 75  | 150198 | 9.033  | ppbv   | 89     |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042075.D  
 Acq On : 03 Mar 2025 12:15  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

Manual Integrations  
 APPROVED

Reviewed By : Semsettin Yesilyurt 03/04/2025  
 Supervised By : Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:16:36 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.590  | 75   | 201389   | 9.360  | ppbv   | 97       |
| 47) 1,1,2-Trichloroethane     | 6.574  | 97   | 155548   | 9.419  | ppbv   | 94       |
| 48) Dibromochloromethane      | 7.380  | 129  | 244551   | 9.456  | ppbv   | 99       |
| 49) Bromoform                 | 9.477  | 173  | 215068   | 9.576  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.742  | 43   | 451104   | 10.937 | ppbv   | 97       |
| 51) 2-Hexanone                | 7.428  | 43   | 364047   | 12.824 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.218  | 164  | 135049   | 9.205  | ppbv   | 96       |
| 53) Toluene                   | 6.926  | 91   | 448652   | 9.368  | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.645  | 107  | 207672   | 9.302  | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.917  | 131  | 186364   | 9.414  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.917  | 112  | 344415   | 9.485  | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.351  | 91   | 617808   | 9.578  | ppbv   | 99       |
| 59) m/p-Xylene                | 9.545  | 91   | 999203m  | 19.467 | ppbv   |          |
| 60) o-Xylene                  | 9.959  | 91   | 499183   | 9.674  | ppbv   | 99       |
| 61) Styrene                   | 9.865  | 104  | 239891   | 9.888  | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.535 | 105  | 742029   | 9.602  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.956  | 83   | 327826   | 9.647  | ppbv   | 99       |
| 64) n-propylbenzene           | 10.985 | 120  | 194972   | 9.618  | ppbv   | 95       |
| 65) tert-Butylbenzene         | 11.529 | 119  | 655219   | 9.316  | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.613 | 91   | 44259    | 8.247  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.765 | 105  | 956463   | 9.509  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.924 | 119  | 773774   | 9.669  | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.280 | 91   | 803607   | 9.837  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.898 | 91   | 568423   | 9.541  | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.121 | 105  | 607815   | 9.647  | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.199 | 105  | 516320   | 9.447  | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.532 | 105  | 569704   | 9.257  | ppbv # | 91       |
| 75) 1,3-Dichlorobenzene       | 11.603 | 146  | 332997   | 9.402  | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.668 | 146  | 334533   | 9.513  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.943 | 146  | 328836   | 9.567  | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.879 | 225  | 235840   | 8.819  | ppbv   | 98       |
| 79) Naphthalene               | 13.510 | 128  | 519908   | 12.321 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.455 | 142  | 193268   | 16.737 | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.439 | 180  | 237980   | 10.120 | ppbv   | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042075.D  
 Acq On : 03 Mar 2025 12:15  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Mar 04 00:16:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Feb 26 01:08:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                    | AvgRF | CCRF   | %Dev  | Area% | Dev(min) |
|------|-----------------------------|-------|--------|-------|-------|----------|
| 1 I  | Bromochloromethane          | 1.000 | 1.000  | 0.0   | 108   | -0.02    |
| 2 T  | Dichlorodifluoromethane     | 1.040 | 1.021  | 1.8   | 116   | 0.00     |
| 3    | Chlorodifluoromethane       | 1.453 | 1.323  | 8.9   | 109   | 0.00     |
| 4    | Chloromethane               | 0.385 | 0.353  | 8.3   | 111   | 0.00     |
| 5 T  | Vinyl Chloride              | 0.364 | 0.348  | 4.4   | 111   | 0.00     |
| 6 T  | Bromomethane                | 0.173 | 0.174  | -0.6  | 117   | 0.00     |
| 7    | Chloroethane                | 0.148 | 0.139  | 6.1   | 111   | 0.00     |
| 8 T  | Dichlorotetrafluoroethane   | 0.855 | 0.831  | 2.8   | 115   | 0.00     |
| 9 T  | Propene                     | 0.592 | 0.549  | 7.3   | 113   | 0.00     |
| 10 T | Heptane                     | 1.844 | 1.646  | 10.7  | 107   | -0.04    |
| 11 T | Trichlorofluoromethane      | 1.042 | 1.082  | -3.8  | 123   | 0.00     |
| 12 T | 1,1,2-Trichlorotrifluoroeth | 0.831 | 0.821  | 1.2   | 127   | 0.00     |
| 13   | Ethanol                     | 0.038 | 0.019# | 50.0# | 106   | 0.00     |
| 14 T | Bromoethene                 | 0.293 | 0.280  | 4.4   | 114   | 0.00     |
| 15 T | Acetone                     | 0.883 | 0.773  | 12.5  | 116   | 0.00     |
| 16 T | 1,3-Butadiene               | 0.411 | 0.375  | 8.8   | 113   | 0.00     |
| 17   | tert-Butyl alcohol          | 1.105 | 1.009  | 8.7   | 114   | -0.01    |
| 18 T | 1,1-Dichloroethene          | 0.376 | 0.362  | 3.7   | 122   | -0.01    |
| 19 T | Isopropyl Alcohol           | 0.507 | 0.460  | 9.3   | 118   | 0.00     |
| 20 T | Methylene Chloride          | 0.334 | 0.306  | 8.4   | 126   | 0.00     |
| 21 T | Allyl Chloride              | 0.638 | 0.622  | 2.5   | 124   | -0.01    |
| 22 T | trans-1,2-Dichloroethene    | 0.438 | 0.419  | 4.3   | 126   | -0.01    |
| 23 T | Vinyl Acetate               | 0.621 | 0.519  | 16.4  | 107   | -0.01    |
| 24 T | 1,1-Dichloroethane          | 0.815 | 0.788  | 3.3   | 127   | -0.01    |
| 25 T | Ethyl Acetate               | 3.535 | 3.248  | 8.1   | 110   | -0.02    |
| 26 T | Hexane                      | 1.429 | 1.250  | 12.5  | 105   | -0.02    |
| 27 T | Carbon Disulfide            | 0.969 | 0.960  | 0.9   | 121   | -0.01    |
| 28 T | Methyl tert-Butyl Ether     | 0.711 | 0.591  | 16.9  | 122   | -0.01    |
| 29 T | Chloroform                  | 1.923 | 1.697  | 11.8  | 106   | -0.02    |
| 30 T | Cyclohexane                 | 1.160 | 0.983  | 15.3  | 98    | -0.02    |
| 31 T | cis-1,2-Dichloroethene      | 1.353 | 1.208  | 10.7  | 105   | -0.02    |
| 32 T | 1,1,1-Trichloroethane       | 1.866 | 1.590  | 14.8  | 97    | -0.02    |
| 33 I | 1,4-Difluorobenzene         | 1.000 | 1.000  | 0.0   | 97    | -0.03    |
| 34 T | 2-Butanone                  | 0.779 | 0.793  | -1.8  | 111   | -0.02    |
| 35 T | Carbon Tetrachloride        | 0.690 | 0.687  | 0.4   | 102   | -0.03    |
| 36 T | Benzene                     | 1.047 | 1.003  | 4.2   | 100   | -0.02    |
| 37 T | 1,2-Dichloroethane          | 0.580 | 0.575  | 0.9   | 107   | -0.02    |
| 38 T | Trichloroethene             | 0.427 | 0.378  | 11.5  | 97    | -0.03    |
| 39 T | 1,2-Dichloropropane         | 0.397 | 0.388  | 2.3   | 105   | -0.03    |
| 40 T | 1,4-Dioxane                 | 0.181 | 0.170  | 6.1   | 100   | -0.03    |
| 41 T | Tetrahydrofuran             | 0.460 | 0.463  | -0.7  | 107   | -0.02    |
| 42 T | Bromodichloromethane        | 0.782 | 0.770  | 1.5   | 101   | -0.03    |
| 43   | Methyl Methacrylate         | 0.409 | 0.392  | 4.2   | 97    | -0.04    |
| 44 T | 2,2,4-Trimethylpentane      | 1.848 | 1.787  | 3.3   | 104   | -0.03    |
| 45 T | t-1,3-Dichloropropene       | 0.406 | 0.367  | 9.6   | 90    | -0.04    |
| 46 T | cis-1,3-Dichloropropene     | 0.526 | 0.492  | 6.5   | 92    | -0.04    |
| 47 T | 1,1,2-Trichloroethane       | 0.403 | 0.380  | 5.7   | 102   | -0.04    |
| 48 T | Dibromochloromethane        | 0.632 | 0.597  | 5.5   | 97    | -0.03    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042075.D  
 Acq On : 03 Mar 2025 12:15  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 LabSampleId :  
 VSTDCCC010

Quant Time: Mar 04 00:16:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Wed Feb 26 01:08:36 2025  
 Response via : Initial Calibration

Min. RRF : 0.050 Min. Rel. Area : 20% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 30% Max. Rel. Area : 150%

|      | Compound                  | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|------|---------------------------|-------|-------|--------|-------|----------|
| 49 T | Bromoform                 | 0.549 | 0.525 | 4.4    | 97    | -0.03    |
| 50 T | 4-Methyl-2-Pentanone      | 1.008 | 1.102 | -9.3   | 105   | -0.05    |
| 51 T | 2-Hexanone                | 0.693 | 0.889 | -28.3  | 103   | -0.04    |
| 52 T | Tetrachloroethene         | 0.358 | 0.330 | 7.8    | 98    | -0.03    |
| 53 T | Toluene                   | 1.170 | 1.096 | 6.3    | 98    | -0.03    |
| 54 T | 1,2-Dibromoethane         | 0.545 | 0.507 | 7.0    | 98    | -0.03    |
| 55 I | Chlorobenzene-d5          | 1.000 | 1.000 | 0.0    | 94    | -0.03    |
| 56   | 1,1,1,2-Tetrachloroethane | 0.565 | 0.532 | 5.8    | 99    | -0.03    |
| 57 T | Chlorobenzene             | 1.037 | 0.983 | 5.2    | 101   | -0.02    |
| 58 T | Ethyl Benzene             | 1.842 | 1.764 | 4.2    | 97    | -0.02    |
| 59 T | m/p-Xylene                | 1.466 | 1.426 | 2.7    | 100   | 0.00     |
| 60 T | o-Xylene                  | 1.473 | 1.425 | 3.3    | 101   | -0.02    |
| 61 T | Styrene                   | 0.693 | 0.685 | 1.2    | 97    | -0.02    |
| 62   | Isopropylbenzene          | 2.207 | 2.119 | 4.0    | 101   | -0.02    |
| 63 T | 1,1,2,2-Tetrachloroethane | 0.970 | 0.936 | 3.5    | 103   | -0.02    |
| 64   | n-propylbenzene           | 0.579 | 0.557 | 3.8    | 99    | -0.02    |
| 65   | tert-Butylbenzene         | 2.008 | 1.871 | 6.8    | 101   | -0.02    |
| 66 T | Benzyl Chloride           | 0.153 | 0.126 | 17.6   | 77    | -0.02    |
| 67   | sec-Butylbenzene          | 2.872 | 2.731 | 4.9    | 103   | -0.02    |
| 68 S | 1-Bromo-4-Fluorobenzene   | 0.769 | 0.781 | -1.6   | 96    | -0.02    |
| 69   | p-Isopropyltoluene        | 2.285 | 2.209 | 3.3    | 102   | -0.02    |
| 70   | n-Butylbenzene            | 2.332 | 2.294 | 1.6    | 104   | -0.02    |
| 71   | 2-Chlorotoluene           | 1.701 | 1.623 | 4.6    | 100   | -0.02    |
| 72 T | 4-Ethyltoluene            | 1.799 | 1.735 | 3.6    | 100   | -0.02    |
| 73 T | 1,3,5-Trimethylbenzene    | 1.560 | 1.474 | 5.5    | 100   | -0.02    |
| 74 T | 1,2,4-Trimethylbenzene    | 1.757 | 1.627 | 7.4    | 104   | -0.02    |
| 75 T | 1,3-Dichlorobenzene       | 1.011 | 0.951 | 5.9    | 102   | -0.02    |
| 76 T | 1,4-Dichlorobenzene       | 1.004 | 0.955 | 4.9    | 104   | -0.02    |
| 77 T | 1,2-Dichlorobenzene       | 0.981 | 0.939 | 4.3    | 105   | -0.02    |
| 78 T | Hexachloro-1,3-Butadiene  | 0.764 | 0.673 | 11.9   | 99    | -0.02    |
| 79 T | Naphthalene               | 1.205 | 1.484 | -23.2  | 101   | -0.02    |
| 80 T | Naphthalene,2-methyl-     | 0.330 | 0.552 | -67.3# | 92    | -0.02    |
| 81 T | 1,2,4-Trichlorobenzene    | 0.671 | 0.679 | -1.2   | 99    | -0.02    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
Data File : VL042076.D  
Acq On : 03 Mar 2025 14:49  
Operator : SY/MD  
Sample : VL0303ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0303ABL01

Quant Time: Mar 04 00:17:34 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 156551   | 10.000 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 349743   | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 302717   | 10.000 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.377 | 95    | 224142   | 9.624    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.200% |

| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

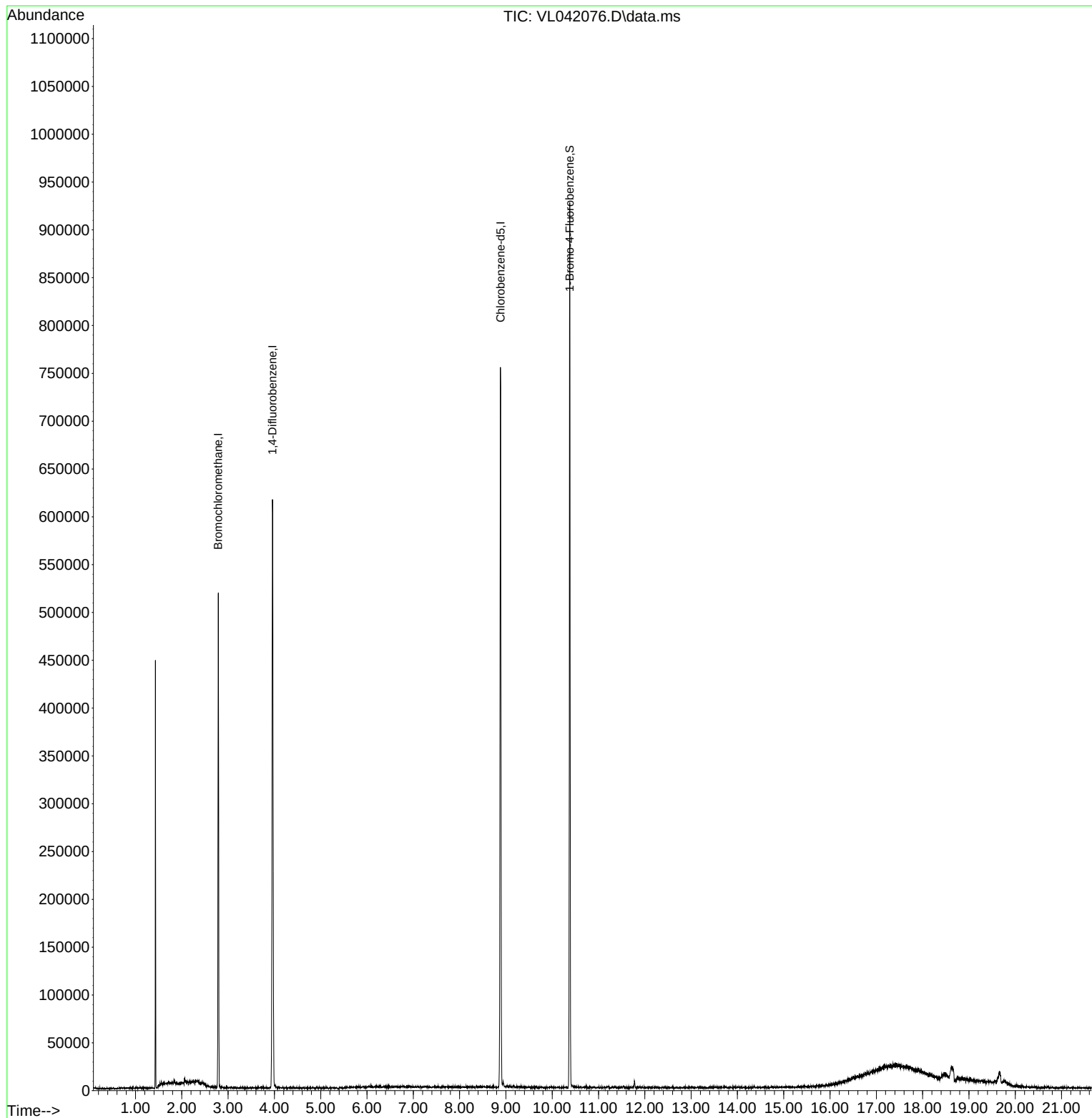
(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
Data File : VL042076.D  
Acq On : 03 Mar 2025 14:49  
Operator : SY/MD  
Sample : VL0303ABL01  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0303ABL01

Quant Time: Mar 04 00:17:34 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042077.D  
 Acq On : 03 Mar 2025 15:19  
 Operator : SY/MD  
 Sample : VL0303ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0303ABS01

### Manual Integrations APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025  
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:17:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.787  | 49    | 157956   | 10.000   | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene       | 3.959  | 114   | 356972   | 10.000   | ppbv  | -0.02    |
| 55) Chlorobenzene-d5          | 8.882  | 117   | 309763   | 10.000   | ppbv  | -0.02    |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.377 | 95    | 242622   | 10.181   | ppbv  | -0.02    |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 101.800% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.499  | 85    | 174930   | 10.650   | ppbv  | 99       |
| 3) Chlorodifluoromethane      | 1.476  | 51    | 222297   | 9.683    | ppbv  | 100      |
| 4) Chloromethane              | 1.531  | 50    | 62156    | 10.233   | ppbv  | 97       |
| 5) Vinyl Chloride             | 1.580  | 62    | 59385    | 10.336   | ppbv  | 100      |
| 6) Bromomethane               | 1.667  | 94    | 28458    | 10.402   | ppbv  | 97       |
| 7) Chloroethane               | 1.703  | 64    | 24205    | 10.368   | ppbv  | 93       |
| 8) Dichlorotetrafluoroethane  | 1.554  | 85    | 142918   | 10.584   | ppbv  | 98       |
| 9) Propene                    | 1.483  | 41    | 90270    | 9.652    | ppbv  | 98       |
| 10) Heptane                   | 4.978  | 43    | 279114   | 9.585    | ppbv  | 97       |
| 11) Trichlorofluoromethane    | 1.878  | 101   | 191850   | 11.657   | ppbv  | 99       |
| 12) 1,1,2-Trichlorotrifluo... | 2.140  | 101   | 147601   | 11.243   | ppbv  | 95       |
| 13) Ethanol                   | 1.722  | 45    | 3648     | 6.145    | ppbv  | 97       |
| 14) Bromoethene               | 1.780  | 108   | 48227    | 10.403   | ppbv  | 100      |
| 15) Acetone                   | 1.835  | 43    | 137515   | 9.858    | ppbv  | 100      |
| 16) 1,3-Butadiene             | 1.609  | 39    | 64593    | 9.950    | ppbv  | 97       |
| 17) tert-Butyl alcohol        | 2.039  | 59    | 167124   | 9.576    | ppbv  | 100      |
| 18) 1,1-Dichloroethene        | 2.033  | 96    | 61659    | 10.394   | ppbv  | 91       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 78936    | 9.851    | ppbv  | 98       |
| 20) Methylene Chloride        | 2.062  | 84    | 52065    | 9.868    | ppbv  | 96       |
| 21) Allyl Chloride            | 2.098  | 41    | 105683   | 10.486   | ppbv  | 99       |
| 22) trans-1,2-Dichloroethene  | 2.340  | 96    | 70753    | 10.232   | ppbv  | 93       |
| 23) Vinyl Acetate             | 2.463  | 43    | 74937    | 7.640    | ppbv  | 98       |
| 24) 1,1-Dichloroethane        | 2.408  | 63    | 137183   | 10.661   | ppbv  | 100      |
| 25) Ethyl Acetate             | 2.836  | 43    | 548497   | 9.824    | ppbv  | 99       |
| 26) Hexane                    | 2.826  | 57    | 207965   | 9.213    | ppbv  | 92       |
| 27) Carbon Disulfide          | 2.149  | 76    | 168252   | 10.996   | ppbv  | 99       |
| 28) Methyl tert-Butyl Ether   | 2.441  | 73    | 94112    | 8.374    | ppbv  | 100      |
| 29) Chloroform                | 2.849  | 83    | 286765   | 9.439    | ppbv  | 97       |
| 30) Cyclohexane               | 3.858  | 84    | 163145   | 8.905    | ppbv  | 91       |
| 31) cis-1,2-Dichloroethene    | 2.722  | 61    | 199200   | 9.322    | ppbv  | 97       |
| 32) 1,1,1-Trichloroethane     | 3.370  | 97    | 269140   | 9.133    | ppbv  | 95       |
| 34) 2-Butanone                | 2.557  | 43    | 313084   | 11.258   | ppbv  | 95       |
| 35) Carbon Tetrachloride      | 3.765  | 117   | 268731   | 10.917   | ppbv  | 96       |
| 36) Benzene                   | 3.658  | 78    | 390842   | 10.459   | ppbv  | 96       |
| 37) 1,2-Dichloroethane        | 3.218  | 62    | 227067   | 10.959   | ppbv  | 98       |
| 38) Trichloroethene           | 4.551  | 130   | 148971   | 9.762    | ppbv  | 94       |
| 39) 1,2-Dichloropropane       | 4.315  | 63    | 151311   | 10.668   | ppbv  | 96       |
| 40) 1,4-Dioxane               | 4.587  | 88    | 67241    | 10.385   | ppbv  | # 91     |
| 41) Tetrahydrofuran           | 3.056  | 42    | 183578   | 11.172   | ppbv  | 93       |
| 42) Bromodichloromethane      | 4.490  | 83    | 302583   | 10.839   | ppbv  | 100      |
| 43) Methyl Methacrylate       | 4.881  | 69    | 150871   | 10.338   | ppbv  | 91       |
| 44) 2,2,4-Trimethylpentane    | 4.638  | 57    | 718377   | 10.892   | ppbv  | 98       |
| 45) t-1,3-Dichloropropene     | 6.415  | 75    | 139814   | 9.643    | ppbv  | 100      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
 Data File : VL042077.D  
 Acq On : 03 Mar 2025 15:19  
 Operator : SY/MD  
 Sample : VL0303ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0303ABS01

Manual Integrations  
 APPROVED

Reviewed By :Semsettin Yesilyurt 03/04/2025  
 Supervised By :Mahesh Dadoda 03/05/2025

Quant Time: Mar 04 00:17:54 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M

Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_LFri Aug 2

QLast Update : Wed Feb 26 01:08:36 2025

Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.606  | 75   | 189075   | 10.077 | ppbv   | 95       |
| 47) 1,1,2-Trichloroethane     | 6.587  | 97   | 146747   | 10.191 | ppbv   | 97       |
| 48) Dibromochloromethane      | 7.390  | 129  | 229765   | 10.188 | ppbv   | 99       |
| 49) Bromoform                 | 9.487  | 173  | 205188   | 10.477 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.752  | 43   | 434273   | 12.074 | ppbv   | 95       |
| 51) 2-Hexanone                | 7.438  | 43   | 347904   | 14.054 | ppbv # | 96       |
| 52) Tetrachloroethene         | 8.225  | 164  | 128803   | 10.068 | ppbv   | 97       |
| 53) Toluene                   | 6.933  | 91   | 428586   | 10.262 | ppbv   | 97       |
| 54) 1,2-Dibromoethane         | 7.652  | 107  | 199250   | 10.235 | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.927  | 131  | 181131   | 10.346 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.924  | 112  | 328409   | 10.225 | ppbv   | 98       |
| 58) Ethyl Benzene             | 9.357  | 91   | 596825   | 10.462 | ppbv   | 100      |
| 59) m/p-Xylene                | 9.552  | 91   | 977538m  | 21.533 | ppbv   |          |
| 60) o-Xylene                  | 9.966  | 91   | 488769   | 10.710 | ppbv   | 100      |
| 61) Styrene                   | 9.872  | 104  | 226533   | 10.558 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.542 | 105  | 733758   | 10.735 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.963  | 83   | 327069   | 10.882 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.992 | 120  | 192573   | 10.741 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 643195   | 10.340 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.617 | 91   | 39375    | 8.295  | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.769 | 105  | 940060   | 10.567 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.927 | 119  | 759761   | 10.734 | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.283 | 91   | 795433   | 11.010 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.901 | 91   | 553780   | 10.510 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.128 | 105  | 592316   | 10.629 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 508702   | 10.524 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 557804   | 10.248 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 328061   | 10.473 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 328671   | 10.568 | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 324906   | 10.688 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 232449   | 9.827  | ppbv   | 99       |
| 79) Naphthalene               | 13.517 | 128  | 503470   | 13.490 | ppbv   | 98       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 184155   | 18.031 | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 227832   | 10.954 | ppbv   | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
Data File : VL042090.D  
Acq On : 03 Mar 2025 22:02  
Operator : SY/MD  
Sample : QC022625 CAN 10746  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC022625 CAN 10746

Quant Time: Mar 04 00:24:43 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.787 | 49   | 146067   | 10.000 | ppbv  | -0.01    |
| 33) 1,4-Difluorobenzene | 3.959 | 114  | 315381   | 10.000 | ppbv  | -0.02    |
| 55) Chlorobenzene-d5    | 8.882 | 117  | 272704   | 10.000 | ppbv  | -0.02    |

System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.374 | 95    | 202629   | 9.658    | ppbv | -0.02   |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 96.600% |

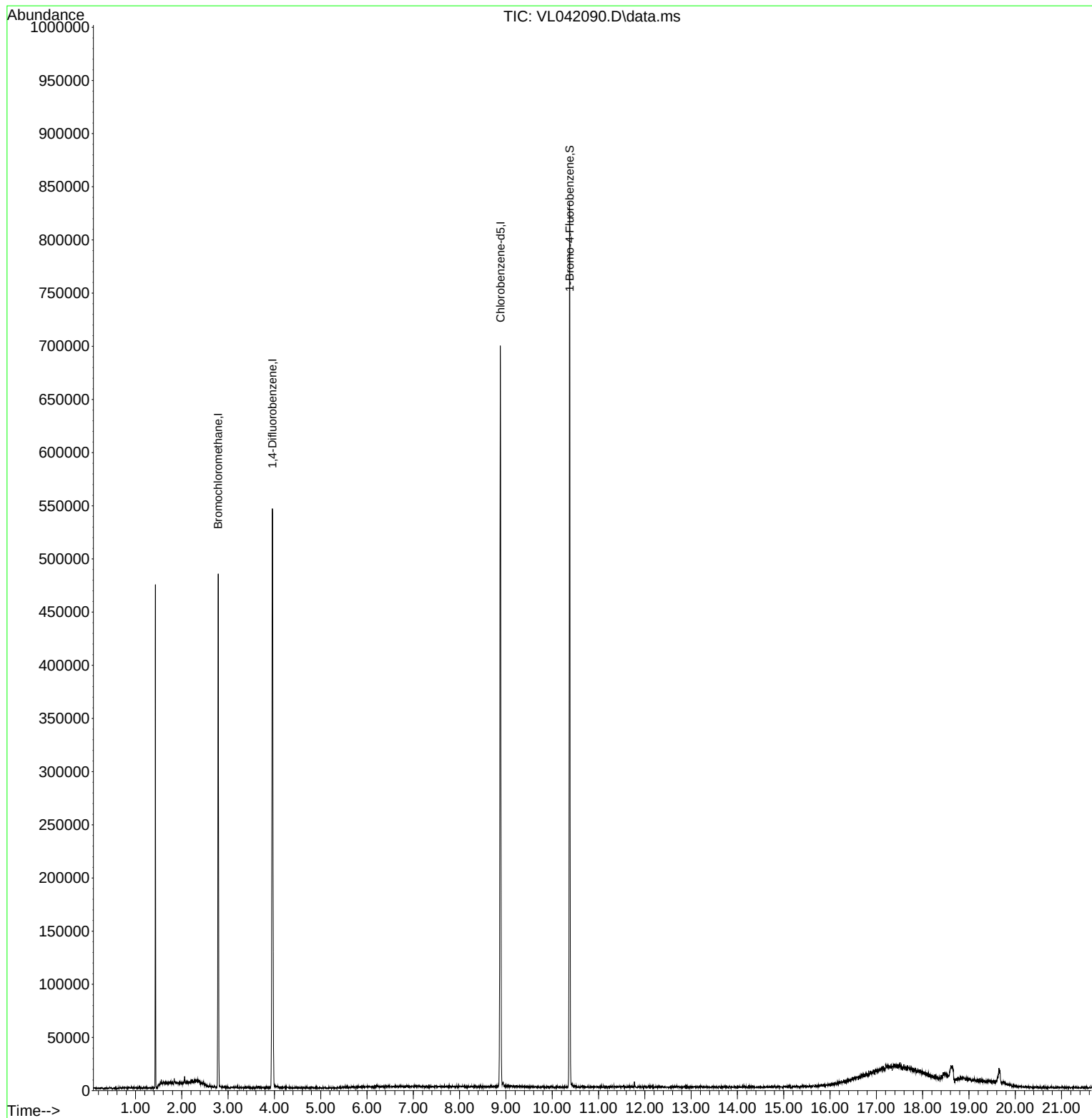
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL030325\  
Data File : VL042090.D  
Acq On : 03 Mar 2025 22:02  
Operator : SY/MD  
Sample : QC022625 CAN 10746  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
QC022625 CAN 10746

Quant Time: Mar 04 00:24:43 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL022525AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Wed Feb 26 01:08:36 2025  
Response via : Initial Calibration



Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL022525**

|                          |                     |                      |                      |                      |               |
|--------------------------|---------------------|----------------------|----------------------|----------------------|---------------|
| Review By                | Semsettin Yesilyurt | Review On            | 2/26/2025 8:27:25 AM |                      |               |
| Supervise By             | Maresh Dadoda       | Supervise On         | 2/26/2025 1:45:21 PM |                      |               |
| SubDirectory             | VL022525            | HP Acquire Method    | TO15AIR.M            | HP Processing Method | VL022525AIR.M |
| STD. NAME                |                     | STD REF.#            |                      |                      |               |
| Tune/Reschk              |                     | AP2576               |                      |                      |               |
| Initial Calibration Stds |                     | AP2582,AP2584,AP2585 |                      |                      |               |
| CCC                      |                     | AP2582               |                      |                      |               |
| Internal Standard/PEM    |                     | AP2576               |                      |                      |               |
| ICV/I.BLK                |                     | AP2586               |                      |                      |               |
| Surrogate Standard       |                     |                      |                      |                      |               |
| MS/MSD Standard          |                     |                      |                      |                      |               |
| LCS Standard             |                     |                      |                      |                      |               |

| Sr # | SampleId     | Data File Name | Date-Time         | Operator | Status |
|------|--------------|----------------|-------------------|----------|--------|
| 1    | BFB          | VL042040.D     | 25 Feb 2025 07:56 | SY/MD    | Ok     |
| 2    | VSTDICCC010  | VL042041.D     | 25 Feb 2025 08:56 | SY/MD    | Ok,M   |
| 3    | VSTDICCC002  | VL042042.D     | 25 Feb 2025 09:29 | SY/MD    | Ok,M   |
| 4    | VSTDICCC001  | VL042043.D     | 25 Feb 2025 10:00 | SY/MD    | Ok,M   |
| 5    | VSTDICCC0.5  | VL042044.D     | 25 Feb 2025 10:31 | SY/MD    | Ok,M   |
| 6    | VSTDICCC0.1  | VL042045.D     | 25 Feb 2025 11:03 | SY/MD    | Ok,M   |
| 7    | VSTDICCC0.03 | VL042046.D     | 25 Feb 2025 11:34 | SY/MD    | Ok,M   |
| 8    | VSTDICCC015  | VL042047.D     | 25 Feb 2025 12:07 | SY/MD    | Ok,M   |
| 9    | VSTDICV010   | VL042048.D     | 25 Feb 2025 13:15 | SY/MD    | Ok,M   |

M : Manual Integration

Instrument ID: MSVOA\_L

**Daily Analysis Runlog For Sequence/QC Batch ID # VL030325**

|                          |                      |                      |                      |
|--------------------------|----------------------|----------------------|----------------------|
| Review By                | Semsettin Yesilyurt  | Review On            | 3/4/2025 4:05:35 PM  |
| Supervise By             | Maresh Dadoda        | Supervise On         | 3/5/2025 12:17:04 PM |
| SubDirectory             | VL030325             | HP Acquire Method    | TO15AIR.M            |
|                          |                      | HP Processing Method | VL022525AIR.M        |
| <b>STD. NAME</b>         | <b>STD REF.#</b>     |                      |                      |
| Tune/Reschk              | AP2587               |                      |                      |
| Initial Calibration Stds | AP2582,AP2584,AP2585 |                      |                      |
| CCC                      | AP2582               |                      |                      |
| Internal Standard/PEM    | AP2587               |                      |                      |
| ICV/I.BLK                | AP2586               |                      |                      |
| Surrogate Standard       |                      |                      |                      |
| MS/MSD Standard          |                      |                      |                      |
| LCS Standard             |                      |                      |                      |

| Sr # | Sampleld           | Data File Name | Date-Time         | Operator | Status |
|------|--------------------|----------------|-------------------|----------|--------|
| 1    | BFB                | VL042074.D     | 03 Mar 2025 11:45 | SY/MD    | Ok     |
| 2    | VSTDCCC010         | VL042075.D     | 03 Mar 2025 12:15 | SY/MD    | Ok,M   |
| 3    | VL0303ABL01        | VL042076.D     | 03 Mar 2025 14:49 | SY/MD    | Ok     |
| 4    | VL0303ABS01        | VL042077.D     | 03 Mar 2025 15:19 | SY/MD    | Ok,M   |
| 5    | QC022725 CAN 10331 | VL042078.D     | 03 Mar 2025 15:52 | SY/MD    | Ok     |
| 6    | Q1430-03           | VL042079.D     | 03 Mar 2025 16:23 | SY/MD    | Ok,M   |
| 7    | Q1430-03DL         | VL042080.D     | 03 Mar 2025 16:53 | SY/MD    | Not Ok |
| 8    | Q1430-02           | VL042081.D     | 03 Mar 2025 17:24 | SY/MD    | Ok,M   |
| 9    | Q1430-02DL         | VL042082.D     | 03 Mar 2025 17:55 | SY/MD    | Not Ok |
| 10   | Q1430-04           | VL042083.D     | 03 Mar 2025 18:26 | SY/MD    | Ok,M   |
| 11   | Q1430-04DL         | VL042084.D     | 03 Mar 2025 18:57 | SY/MD    | Not Ok |
| 12   | Q1430-01           | VL042085.D     | 03 Mar 2025 19:28 | SY/MD    | Ok,M   |
| 13   | Q1430-01DL         | VL042086.D     | 03 Mar 2025 19:59 | SY/MD    | Not Ok |
| 14   | Q1430-01DUP        | VL042087.D     | 03 Mar 2025 20:29 | SY/MD    | Ok,M   |
| 15   | VIBLK              | VL042088.D     | 03 Mar 2025 21:00 | SY/MD    | Ok     |
| 16   | QC022625 CAN 10682 | VL042089.D     | 03 Mar 2025 21:31 | SY/MD    | Not Ok |
| 17   | QC022625 CAN 10746 | VL042090.D     | 03 Mar 2025 22:02 | SY/MD    | Ok     |
| 18   | VL0303ABS02        | VL042091.D     | 03 Mar 2025 22:33 | SY/MD    | Not Ok |
| 19   | QC022625 CAN 10682 | VL042092.D     | 04 Mar 2025 08:07 | SY/MD    | Ok     |
| 20   | VSTDCCC010         | VL042093.D     | 04 Mar 2025 09:04 | SY/MD    | Ok,M   |

M : Manual Integration



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042842.D  
 Acq On : 13 Aug 2025 08:30  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

Quant Time: Aug 14 01:45:27 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 133104   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 413632   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 370372   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds  
 68) 1-Bromo-4-Fluorobenzene 10.383 95 279557 10.064 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

| Target Compounds              | Qvalue |     |        |       |        |     |
|-------------------------------|--------|-----|--------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.499  | 85  | 178799 | 9.166 | ppbv   | 100 |
| 3) Chlorodifluoromethane      | 1.476  | 51  | 200866 | 9.306 | ppbv   | 100 |
| 4) Chloromethane              | 1.534  | 50  | 70952  | 9.013 | ppbv   | 100 |
| 5) Vinyl Chloride             | 1.583  | 62  | 66768  | 8.612 | ppbv   | 100 |
| 6) Bromomethane               | 1.670  | 94  | 26964  | 8.698 | ppbv   | 100 |
| 7) Chloroethane               | 1.706  | 64  | 26884  | 8.879 | ppbv   | 100 |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85  | 149341 | 9.355 | ppbv   | 100 |
| 9) Propene                    | 1.486  | 41  | 87352  | 9.380 | ppbv   | 100 |
| 10) Heptane                   | 4.988  | 43  | 228679 | 9.186 | ppbv   | 100 |
| 11) Trichlorofluoromethane    | 1.881  | 101 | 169157 | 8.789 | ppbv   | 100 |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101 | 139340 | 9.083 | ppbv   | 100 |
| 13) Ethanol                   | 1.722  | 45  | 6172   | 6.690 | ppbv   | 100 |
| 14) Bromoethene               | 1.784  | 108 | 50730  | 9.135 | ppbv   | 100 |
| 15) Acetone                   | 1.839  | 43  | 126419 | 7.180 | ppbv   | 100 |
| 16) 1,3-Butadiene             | 1.612  | 39  | 66595  | 8.343 | ppbv   | 100 |
| 17) tert-Butyl alcohol        | 2.043  | 59  | 182511 | 8.741 | ppbv   | 100 |
| 18) 1,1-Dichloroethene        | 2.036  | 96  | 62397  | 9.252 | ppbv   | 100 |
| 19) Isopropyl Alcohol         | 1.887  | 45  | 86367  | 8.213 | ppbv   | 100 |
| 20) Methylene Chloride        | 2.065  | 84  | 55107  | 7.471 | ppbv   | 100 |
| 21) Allyl Chloride            | 2.098  | 41  | 113105 | 9.093 | ppbv   | 100 |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96  | 71518  | 9.482 | ppbv   | 100 |
| 23) Vinyl Acetate             | 2.467  | 43  | 221395 | 9.558 | ppbv   | 100 |
| 24) 1,1-Dichloroethane        | 2.412  | 63  | 138444 | 8.885 | ppbv   | 100 |
| 25) Ethyl Acetate             | 2.839  | 43  | 390295 | 9.159 | ppbv   | 100 |
| 26) Hexane                    | 2.829  | 57  | 185288 | 9.420 | ppbv   | 100 |
| 27) Carbon Disulfide          | 2.153  | 76  | 174928 | 9.138 | ppbv   | 100 |
| 28) Methyl tert-Butyl Ether   | 2.444  | 73  | 87929  | 8.767 | ppbv   | 100 |
| 29) Chloroform                | 2.852  | 83  | 257176 | 9.158 | ppbv   | 100 |
| 30) Cyclohexane               | 3.862  | 84  | 161540 | 9.367 | ppbv   | 100 |
| 31) cis-1,2-Dichloroethene    | 2.726  | 61  | 179162 | 9.107 | ppbv   | 100 |
| 32) 1,1,1-Trichloroethane     | 3.373  | 97  | 266021 | 8.946 | ppbv   | 100 |
| 34) 2-Butanone                | 2.560  | 43  | 252300 | 9.033 | ppbv   | 100 |
| 35) Carbon Tetrachloride      | 3.771  | 117 | 262983 | 9.222 | ppbv   | 100 |
| 36) Benzene                   | 3.664  | 78  | 377113 | 9.521 | ppbv   | 100 |
| 37) 1,2-Dichloroethane        | 3.224  | 62  | 199762 | 9.653 | ppbv   | 100 |
| 38) Trichloroethene           | 4.557  | 130 | 164881 | 9.115 | ppbv   | 100 |
| 39) 1,2-Dichloropropane       | 4.324  | 63  | 133996 | 9.263 | ppbv   | 100 |
| 40) 1,4-Dioxane               | 4.590  | 88  | 61378  | 9.064 | ppbv # | 100 |
| 41) Tetrahydrofuran           | 3.059  | 42  | 147025 | 9.442 | ppbv   | 100 |
| 42) Bromodichloromethane      | 4.499  | 83  | 292909 | 9.499 | ppbv   | 100 |
| 43) Methyl Methacrylate       | 4.891  | 69  | 152035 | 9.357 | ppbv   | 100 |
| 44) 2,2,4-Trimethylpentane    | 4.648  | 57  | 626465 | 9.420 | ppbv   | 100 |
| 45) t-1,3-Dichloropropene     | 6.425  | 75  | 177207 | 9.616 | ppbv   | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042842.D  
 Acq On : 13 Aug 2025 08:30  
 Operator : SY/MD  
 Sample : VSTDICCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010

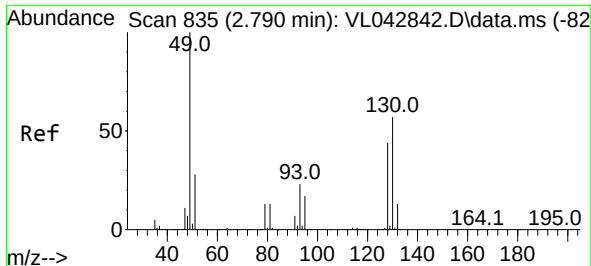
Quant Time: Aug 14 01:45:27 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 222921   | 9.635  | ppbv   | 100      |
| 47) 1,1,2-Trichloroethane     | 6.590  | 97   | 141105   | 9.215  | ppbv   | 100      |
| 48) Dibromochloromethane      | 7.396  | 129  | 241553   | 9.739  | ppbv   | 100      |
| 49) Bromoform                 | 9.490  | 173  | 202975   | 9.923  | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.761  | 43   | 364306   | 9.616  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.441  | 43   | 289052   | 9.730  | ppbv # | 100      |
| 52) Tetrachloroethene         | 8.234  | 164  | 129484   | 9.026  | ppbv   | 100      |
| 53) Toluene                   | 6.943  | 91   | 443400   | 9.407  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.661  | 107  | 209330   | 9.345  | ppbv   | 100      |
| 56) 1,1,1,2-Tetrachloroethane | 8.933  | 131  | 176135   | 9.196  | ppbv   | 100      |
| 57) Chlorobenzene             | 8.930  | 112  | 325303   | 9.237  | ppbv   | 100      |
| 58) Ethyl Benzene             | 9.364  | 91   | 605785   | 9.268  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.542  | 91   | 539072   | 10.505 | ppbv # | 100      |
| 60) o-Xylene                  | 9.972  | 91   | 469073   | 9.102  | ppbv   | 100      |
| 61) Styrene                   | 9.879  | 104  | 226056   | 9.362  | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.549 | 105  | 685983   | 9.108  | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 249621   | 8.870  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.995 | 120  | 175986   | 9.158  | ppbv   | 100      |
| 65) tert-Butylbenzene         | 11.539 | 119  | 594314   | 8.951  | ppbv   | 100      |
| 66) Benzyl Chloride           | 11.620 | 91   | 84156    | 9.985  | ppbv   | 100      |
| 67) sec-Butylbenzene          | 11.772 | 105  | 833378   | 8.943  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 705700   | 8.820  | ppbv   | 100      |
| 70) n-Butylbenzene            | 12.287 | 91   | 713713   | 8.995  | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 525235   | 8.981  | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 578931   | 9.267  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.209 | 105  | 478784   | 9.012  | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 516253   | 8.853  | ppbv   | 100      |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 307640   | 9.280  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 308542   | 9.203  | ppbv   | 100      |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 289119   | 8.907  | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 211996   | 7.968  | ppbv   | 100      |
| 79) Naphthalene               | 13.516 | 128  | 487174   | 9.335  | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 176880   | 9.000  | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 244998   | 9.220  | ppbv   | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICCC010

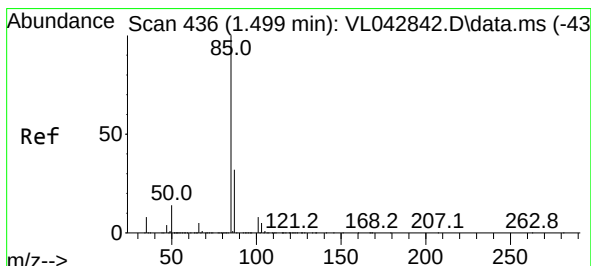
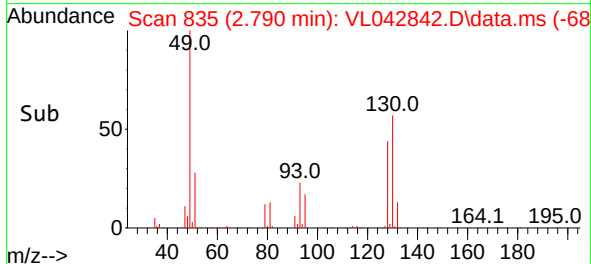
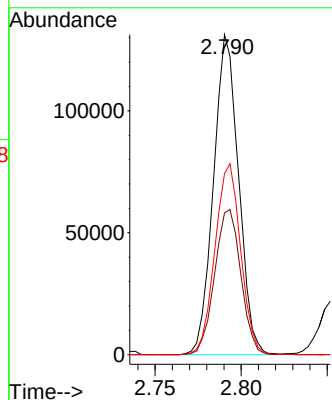
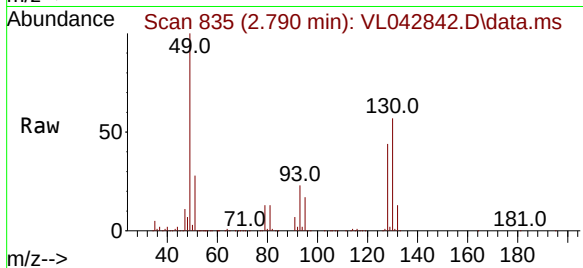
- 1
- 2
- 3
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- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18



#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

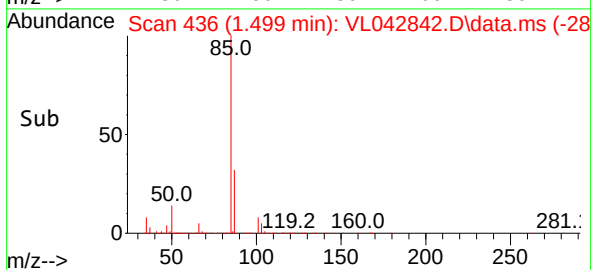
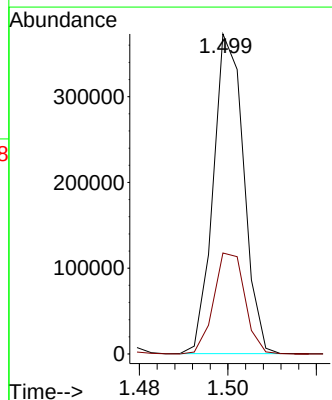
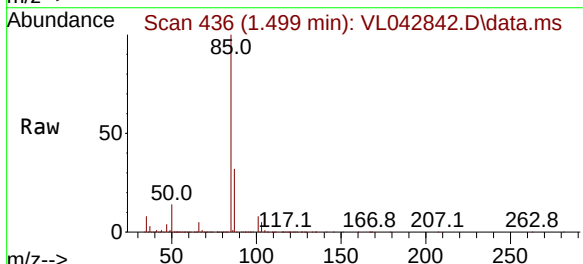
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

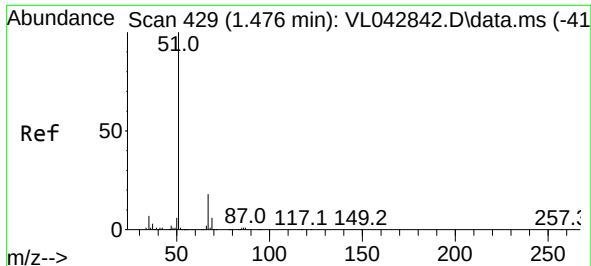
Tgt Ion: 49 Resp: 133104  
Ion Ratio Lower Upper  
49 100  
128 47.4 23.7 71.1  
130 61.1 30.6 91.6



#2  
Dichlorodifluoromethane  
Concen: 9.166 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 85 Resp: 178799  
Ion Ratio Lower Upper  
85 100  
87 31.6 25.3 37.9

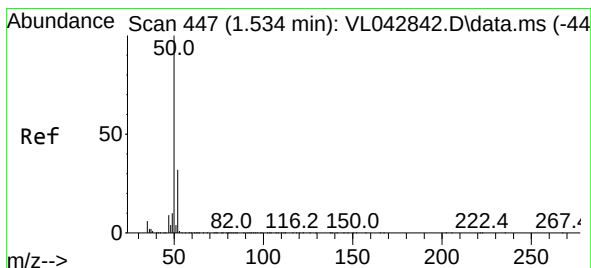
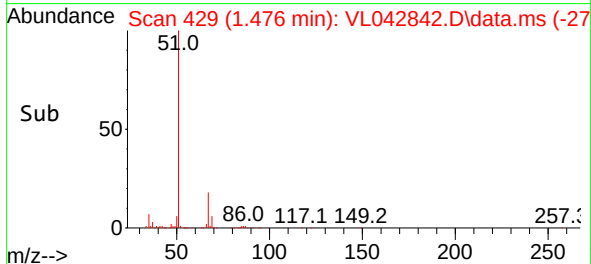
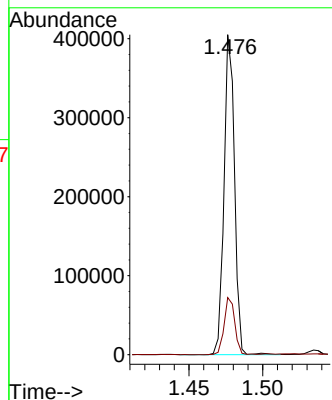
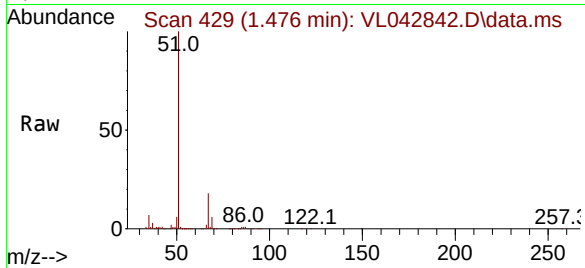




#3  
Chlorodifluoromethane  
Concen: 9.306 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

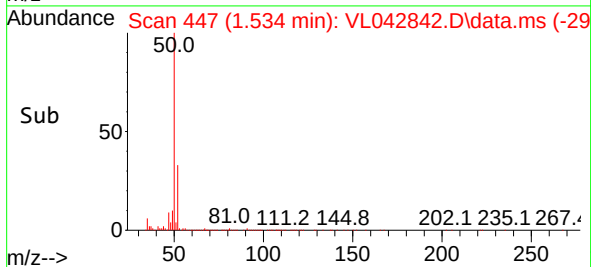
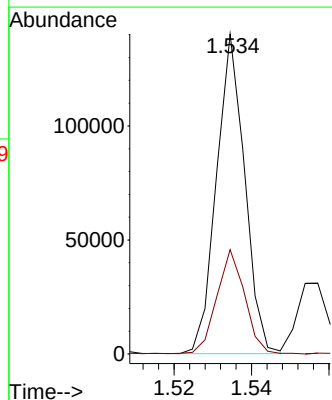
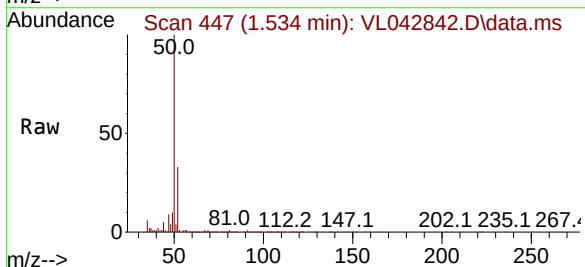
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

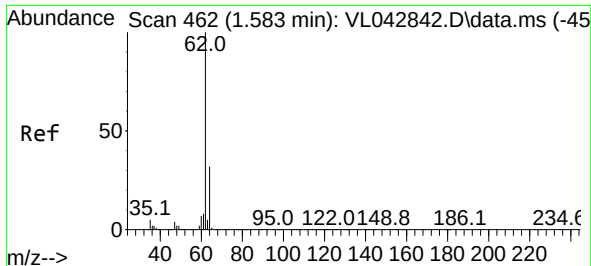
Tgt Ion: 51 Resp: 200866  
Ion Ratio Lower Upper  
51 100  
67 18.6 14.9 22.3



#4  
Chloromethane  
Concen: 9.013 ppbv  
RT: 1.534 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 50 Resp: 70952  
Ion Ratio Lower Upper  
50 100  
52 32.4 25.9 38.9

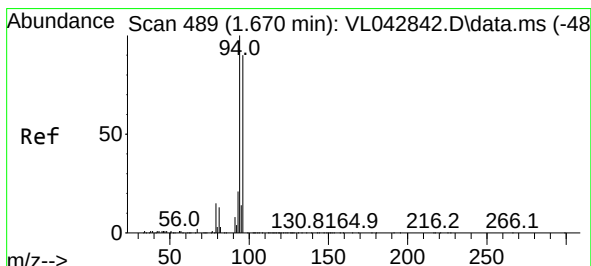
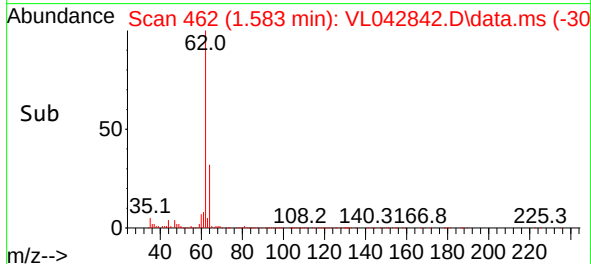
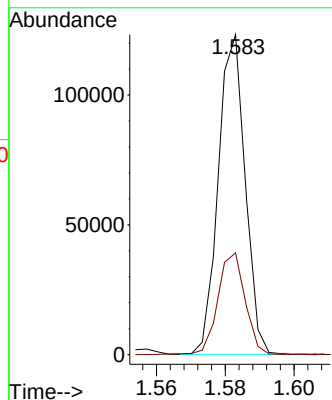
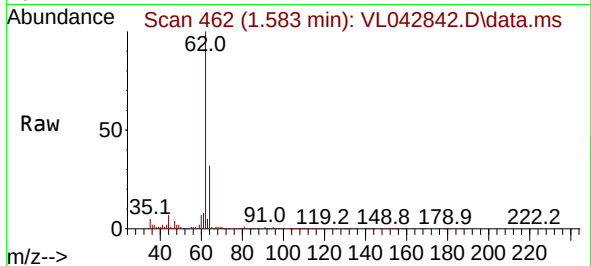




#5  
 Vinyl Chloride  
 Concen: 8.612 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

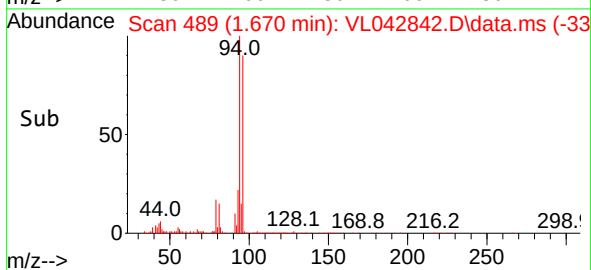
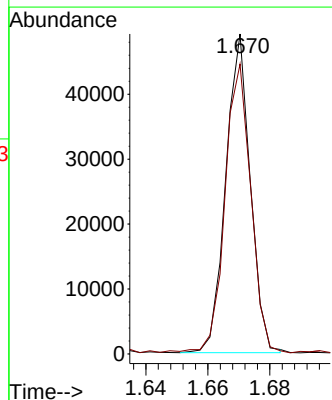
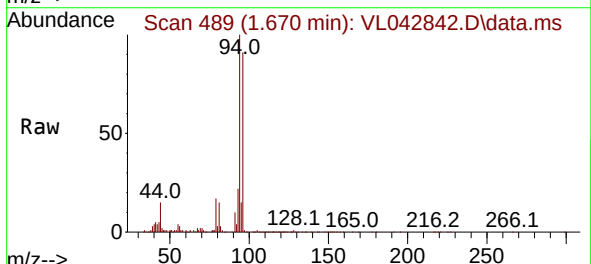
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

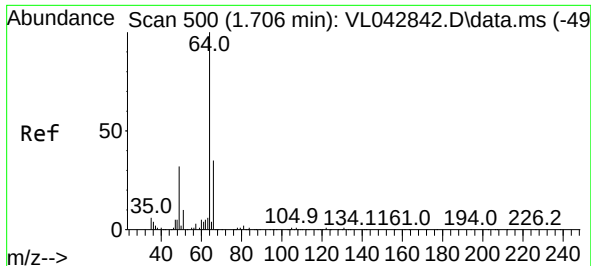
Tgt Ion: 62 Resp: 66768  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 25.4 38.2



#6  
 Bromomethane  
 Concen: 8.698 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

Tgt Ion: 94 Resp: 26964  
 Ion Ratio Lower Upper  
 94 100  
 96 90.1 72.1 108.1

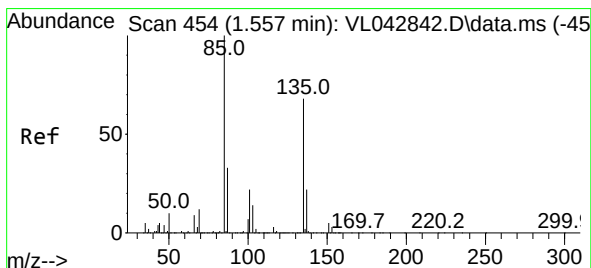
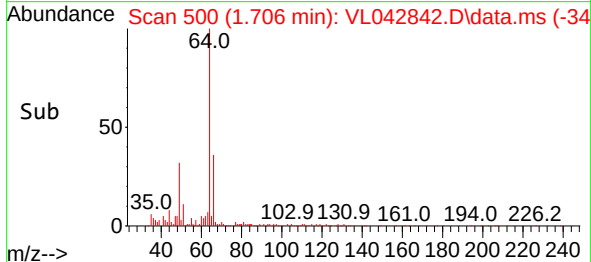
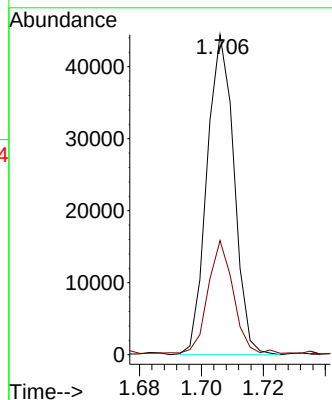
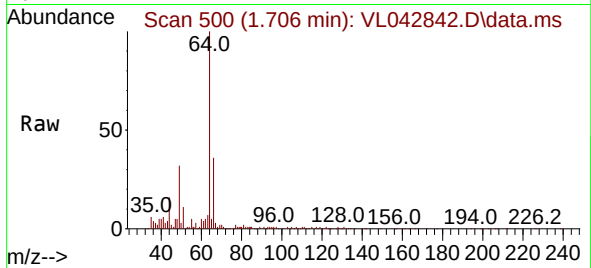




#7  
Chloroethane  
Concen: 8.879 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

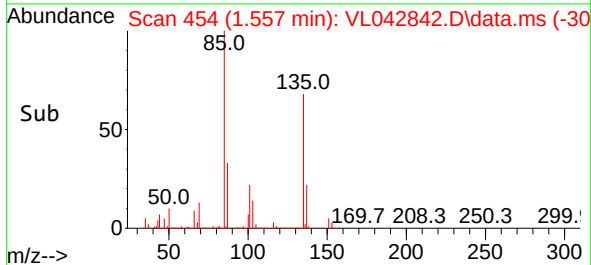
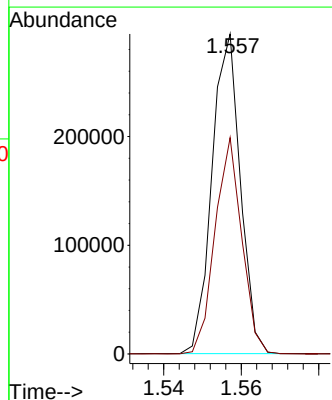
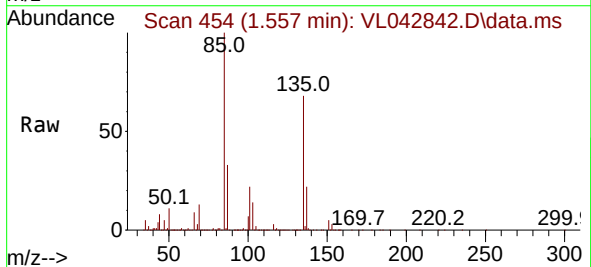
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

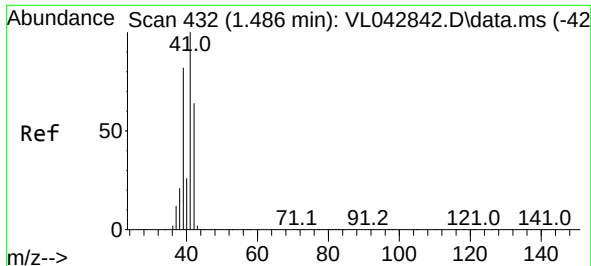
Tgt Ion: 64 Resp: 26884  
Ion Ratio Lower Upper  
64 100  
66 35.7 28.6 42.8



#8  
Dichlorotetrafluoroethane  
Concen: 9.355 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 85 Resp: 149341  
Ion Ratio Lower Upper  
85 100  
135 64.0 51.2 76.8





#9

Propene

Concen: 9.380 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

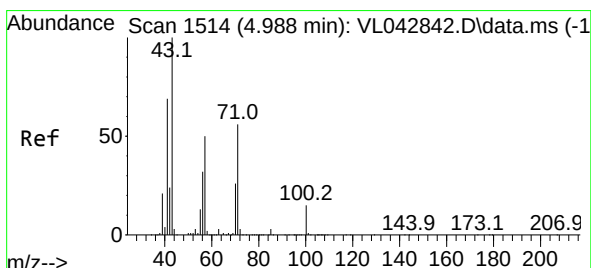
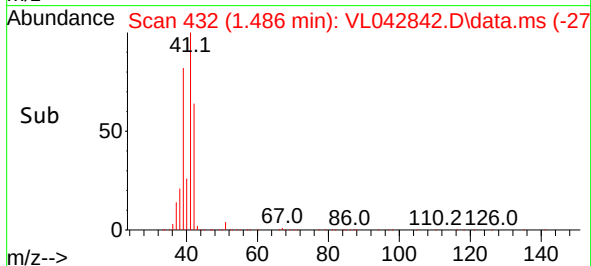
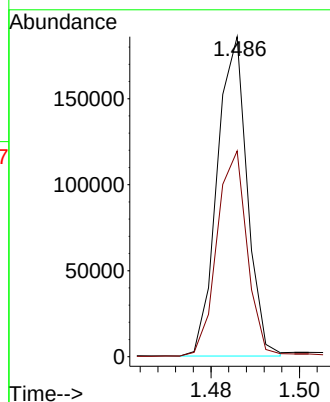
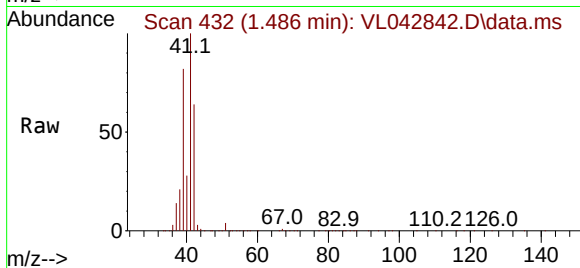
VSTDICCC010

Tgt Ion: 41 Resp: 87352

Ion Ratio Lower Upper

41 100

42 66.2 53.0 79.4



#10

Heptane

Concen: 9.186 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL042842.D

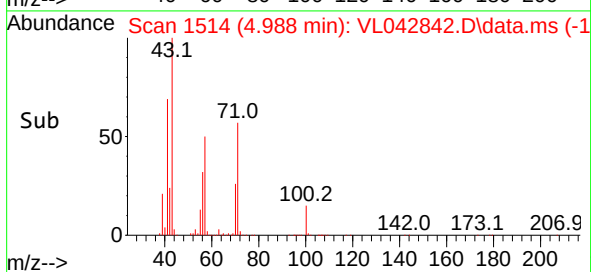
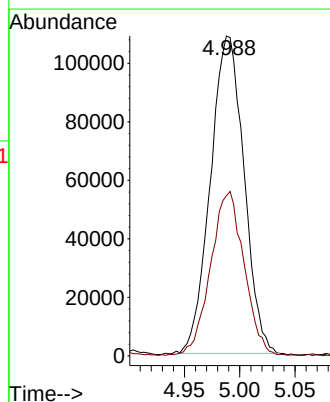
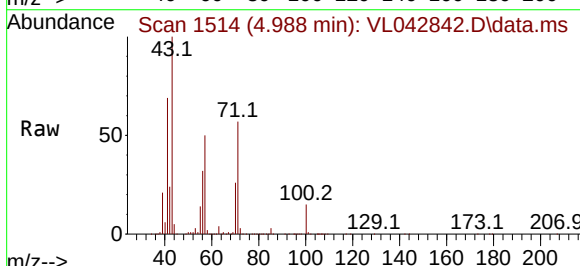
Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 228679

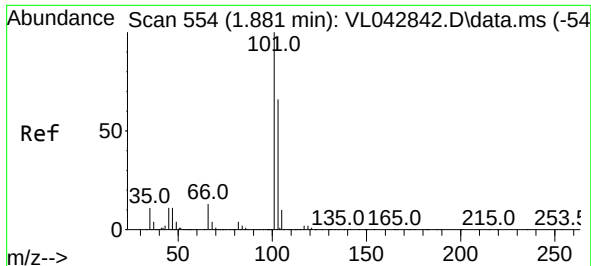
Ion Ratio Lower Upper

43 100

57 51.7 41.4 62.0



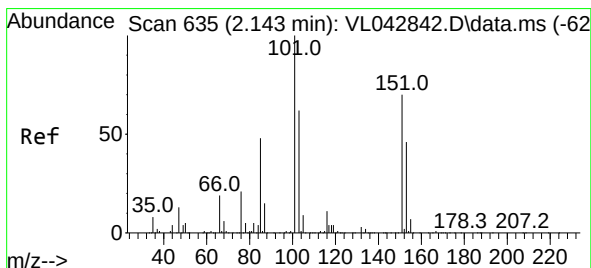
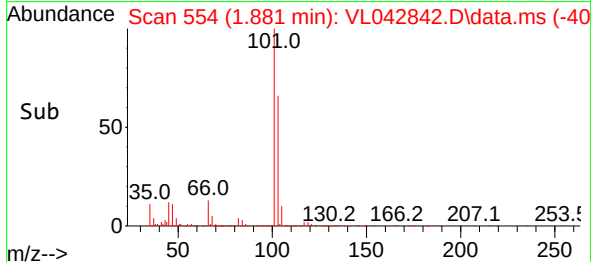
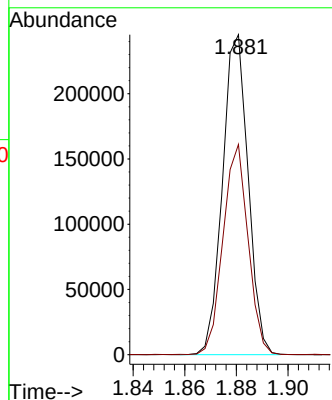
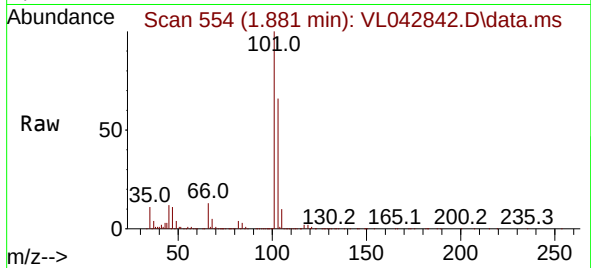




#11  
 Trichlorofluoromethane  
 Concen: 8.789 ppbv  
 RT: 1.881 min Scan# 511  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

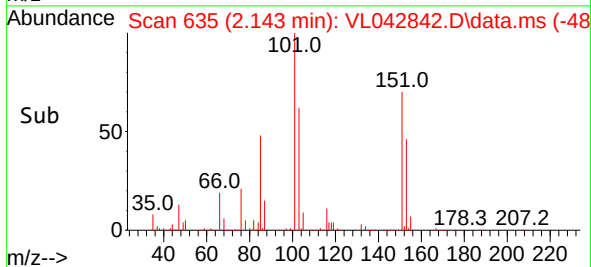
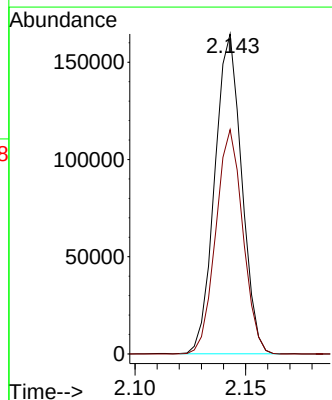
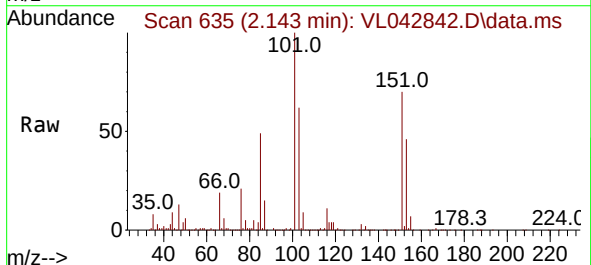
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

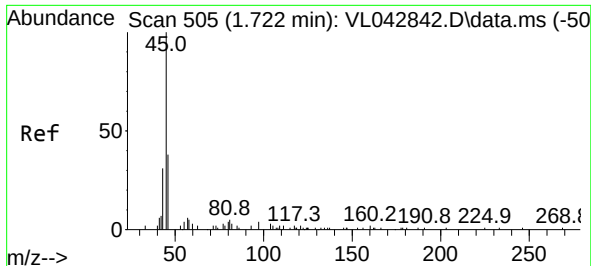
Tgt Ion:101 Resp: 169157  
 Ion Ratio Lower Upper  
 101 100  
 103 65.6 52.5 78.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 9.083 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

Tgt Ion:101 Resp: 139340  
 Ion Ratio Lower Upper  
 101 100  
 151 70.5 56.4 84.6

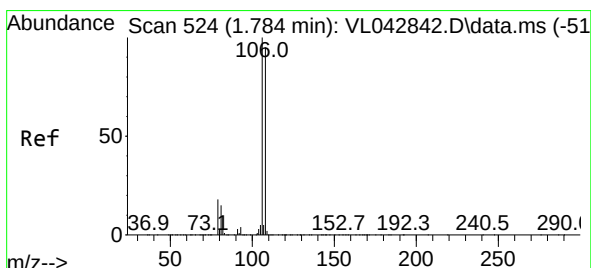
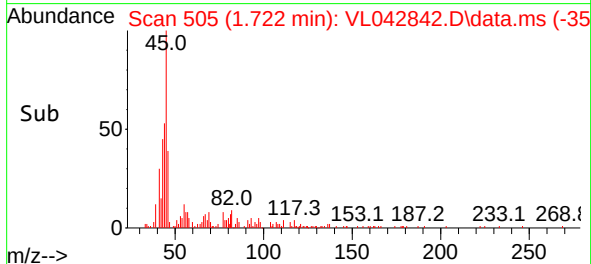
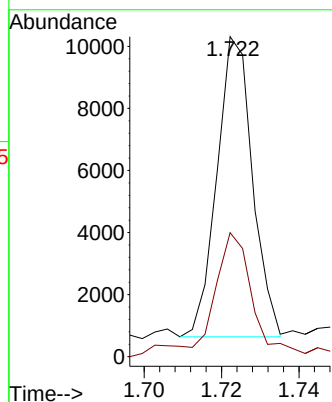
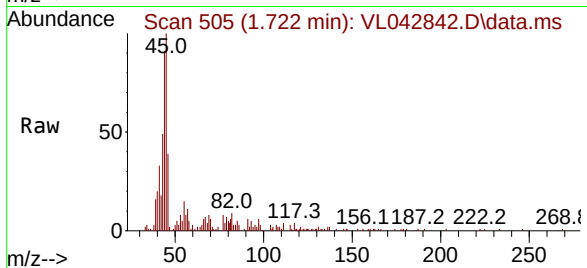




#13  
Ethanol  
Concen: 6.690 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

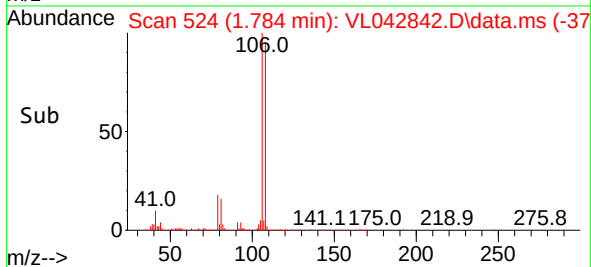
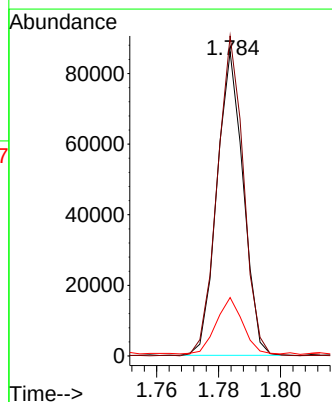
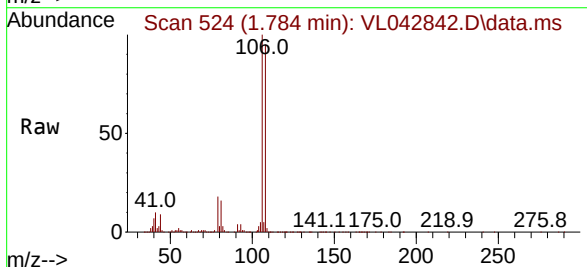
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

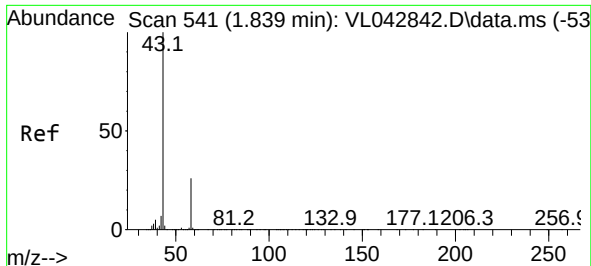
Tgt Ion: 45 Resp: 6172  
Ion Ratio Lower Upper  
45 100  
46 43.7 17.5 69.9



#14  
Bromoethene  
Concen: 9.135 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 108 Resp: 50730  
Ion Ratio Lower Upper  
108 100  
106 106.4 85.1 127.7  
79 20.4 16.3 24.5

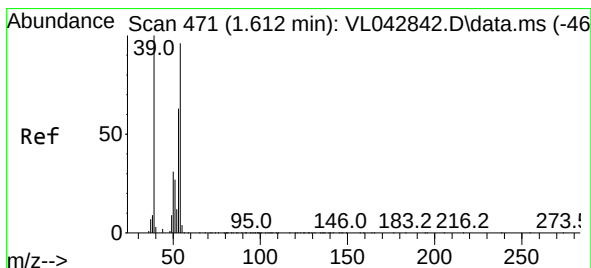
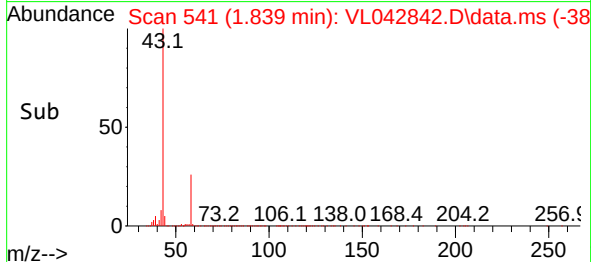
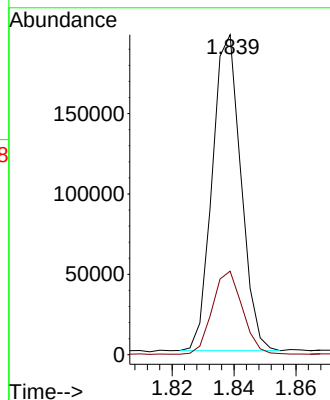
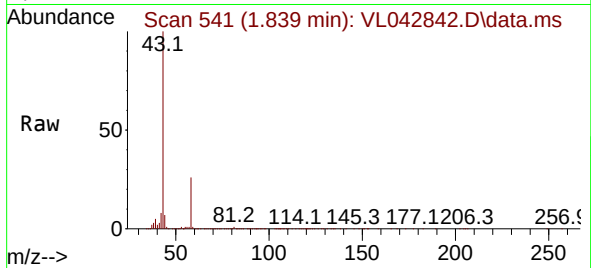




#15  
Acetone  
Concen: 7.180 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

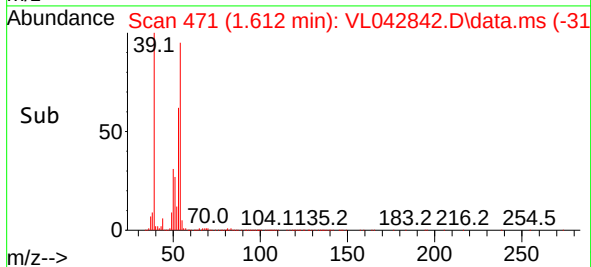
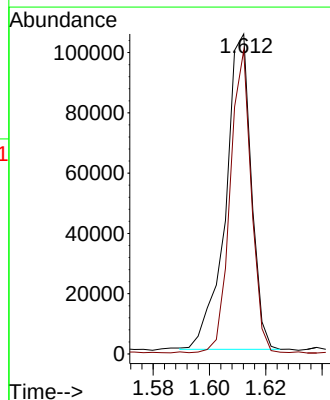
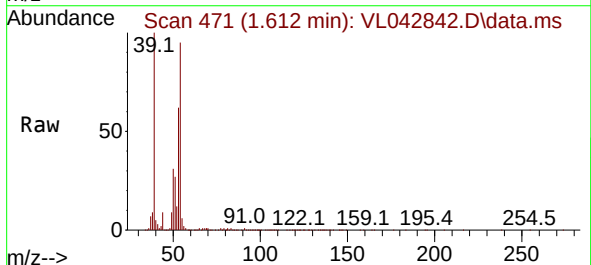
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

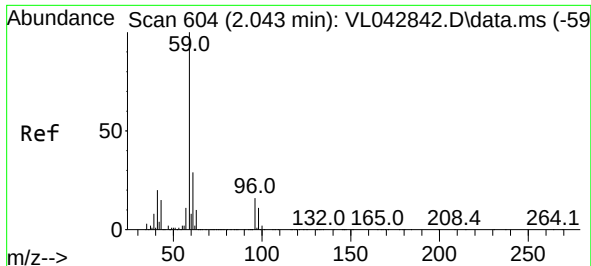
Tgt Ion: 43 Resp: 126419  
Ion Ratio Lower Upper  
43 100  
58 28.0 22.4 33.6



#16  
1,3-Butadiene  
Concen: 8.343 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 39 Resp: 66595  
Ion Ratio Lower Upper  
39 100  
54 79.5 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.741 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_1

ClientSampleId :

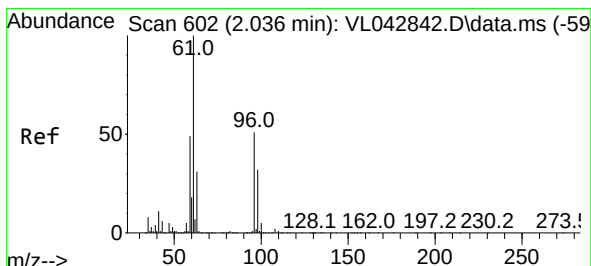
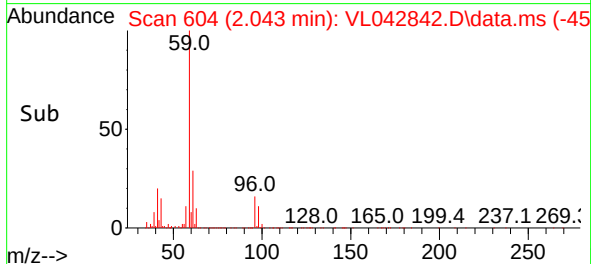
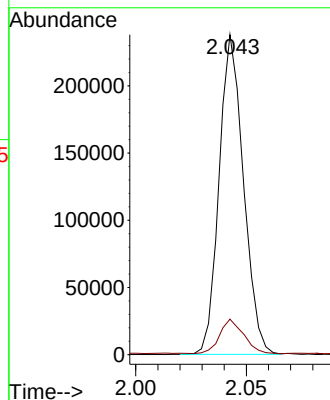
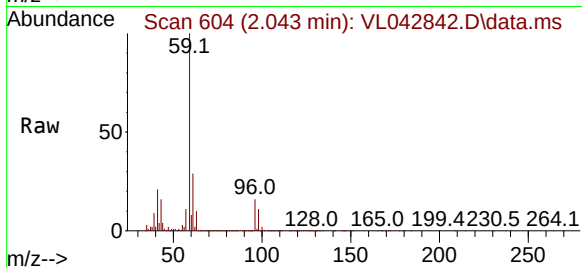
VSTDICCC010

Tgt Ion: 59 Resp: 182511

Ion Ratio Lower Upper

59 100

57 11.2 9.0 13.4



#18

1,1-Dichloroethene

Concen: 9.252 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

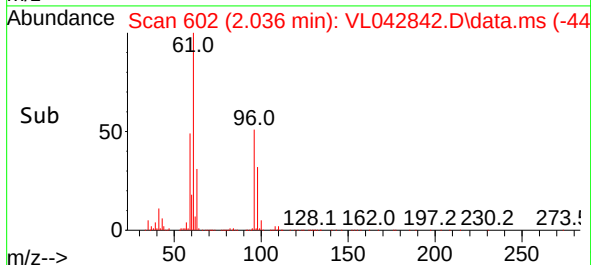
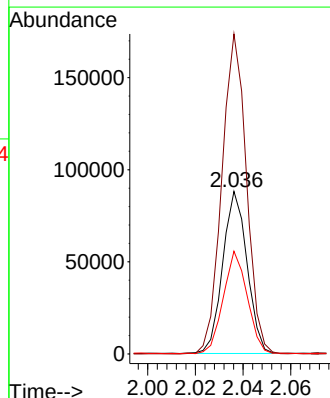
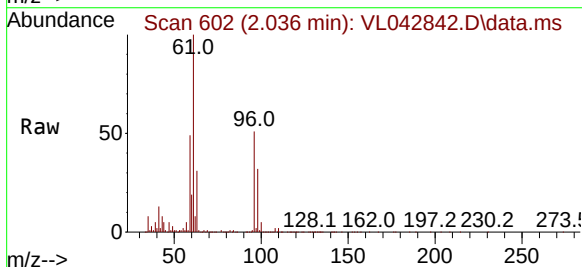
Tgt Ion: 96 Resp: 62397

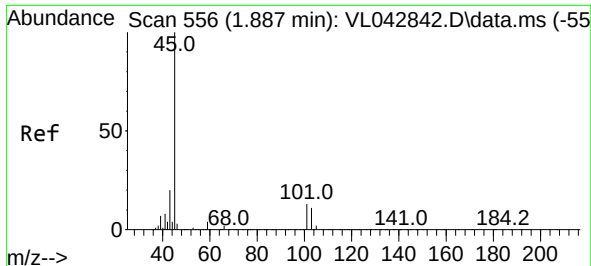
Ion Ratio Lower Upper

96 100

61 197.8 158.2 237.4

98 63.3 50.6 76.0

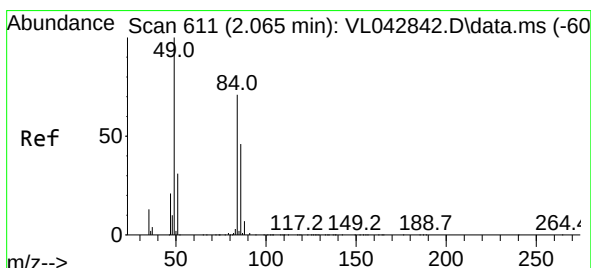
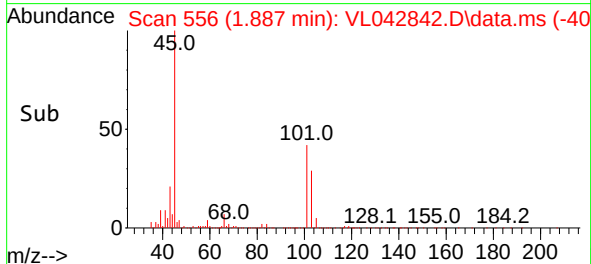
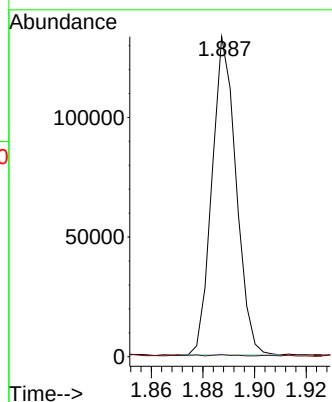
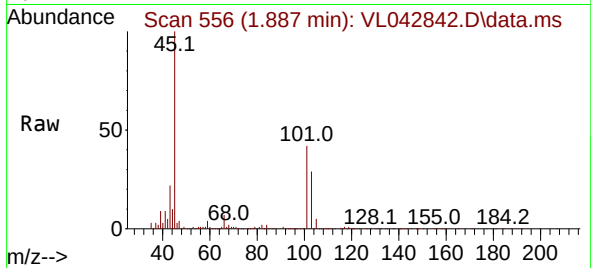




#19  
Isopropyl Alcohol  
Concen: 8.213 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

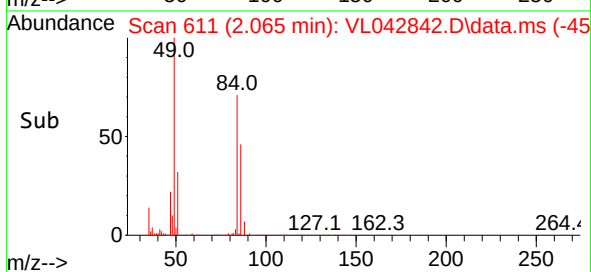
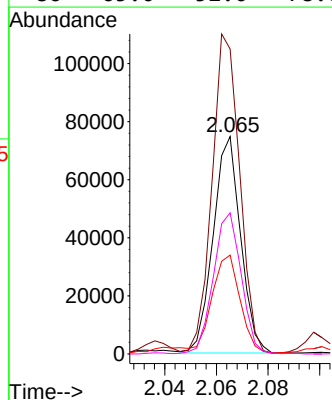
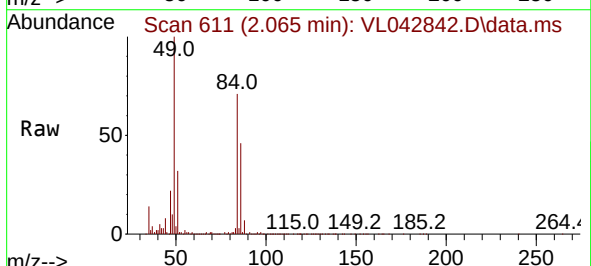
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

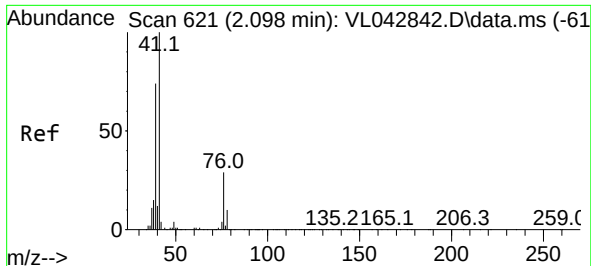
Tgt Ion: 45 Resp: 86367  
Ion Ratio Lower Upper  
45 100  
58 40.9 32.7 49.1



#20  
Methylene Chloride  
Concen: 7.471 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 84 Resp: 55107  
Ion Ratio Lower Upper  
84 100  
49 140.4 112.3 168.5  
51 45.0 36.0 54.0  
86 65.0 52.0 78.0

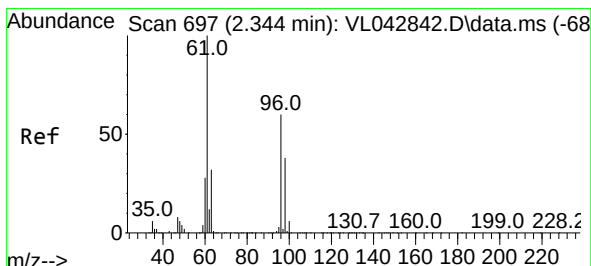
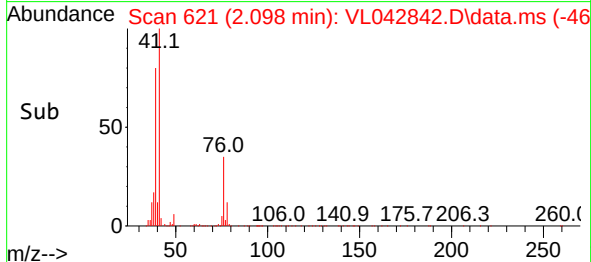
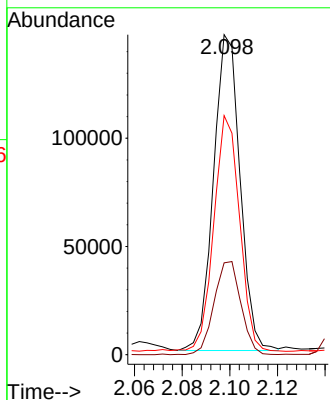
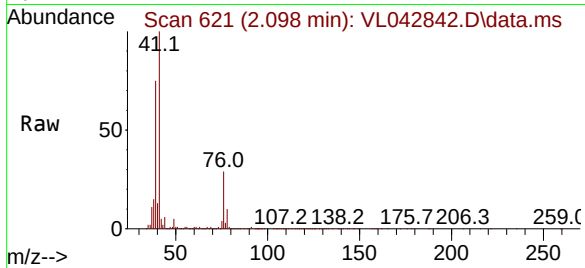




#21  
 Allyl Chloride  
 Concen: 9.093 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

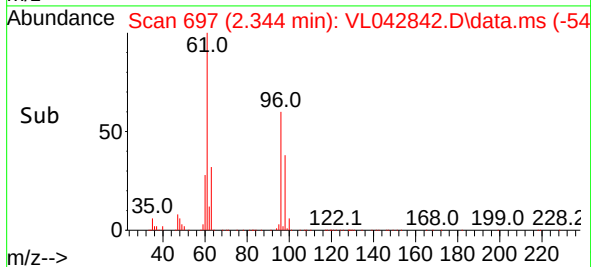
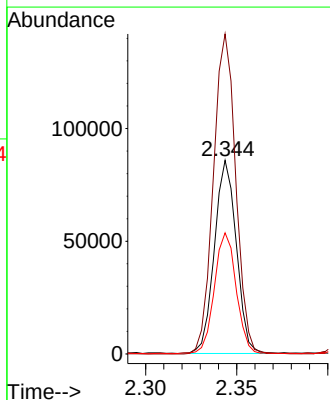
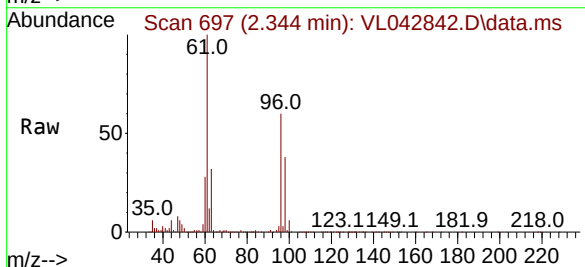
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 ClientSampleId :  
 VSTDICCC010

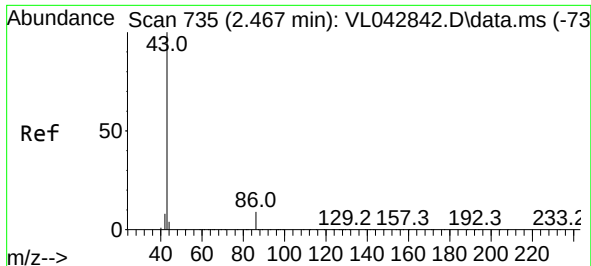
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 113105 |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 76       | 29.9  | 23.9  | 35.9   |
| 39       | 72.2  | 57.8  | 86.6   |



#22  
 trans-1,2-Dichloroethene  
 Concen: 9.482 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 71518 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 165.8 | 132.6 | 199.0 |
| 98       | 62.5  | 50.0  | 75.0  |

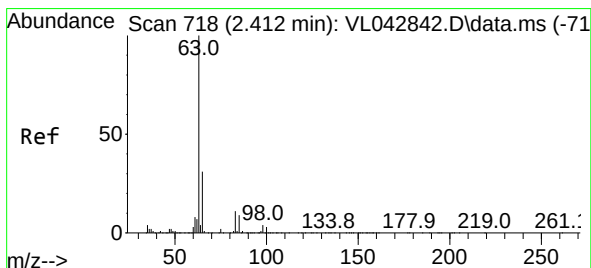
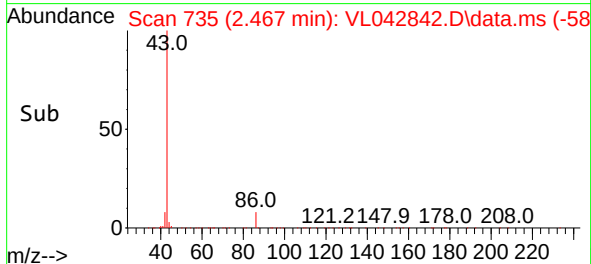
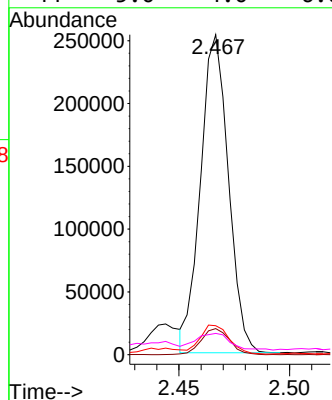
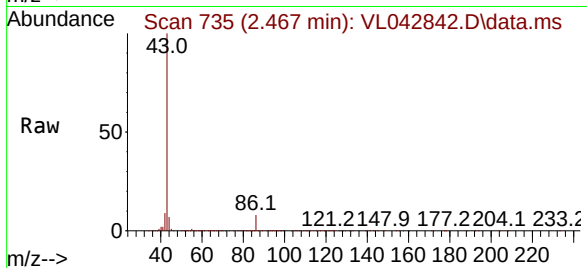




#23  
 Vinyl Acetate  
 Concen: 9.558 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

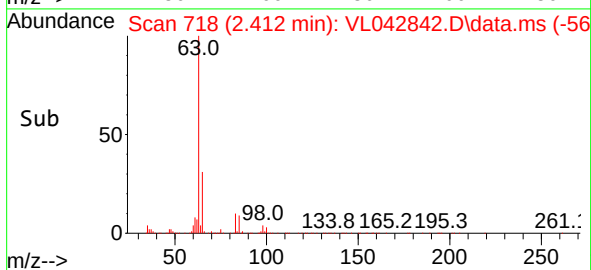
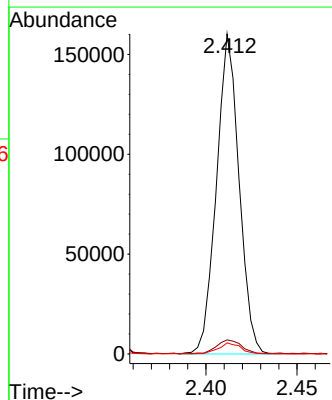
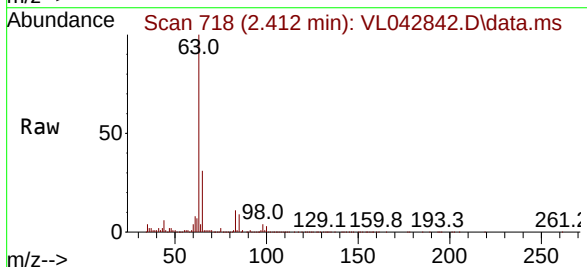
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

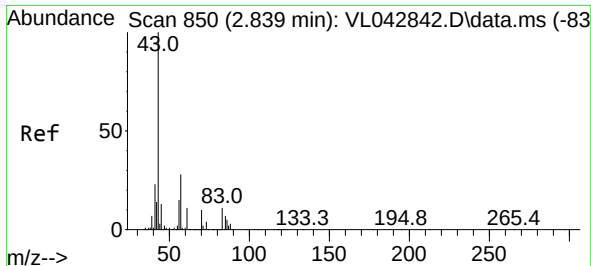
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 221395 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 8.2   | 6.6   | 9.8    |
| 42       | 8.8   | 7.0   | 10.6   |
| 44       | 5.0   | 4.0   | 6.0    |



#24  
 1,1-Dichloroethane  
 Concen: 8.885 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 138444 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.3   | 2.1   | 6.5    |
| 100      | 3.4   | 1.7   | 5.1    |

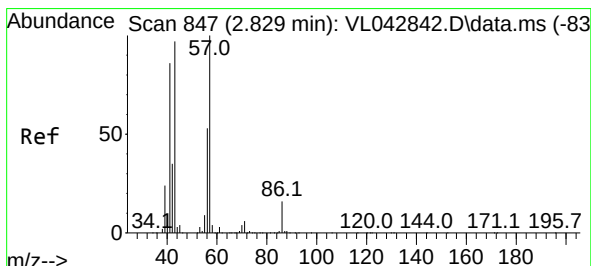
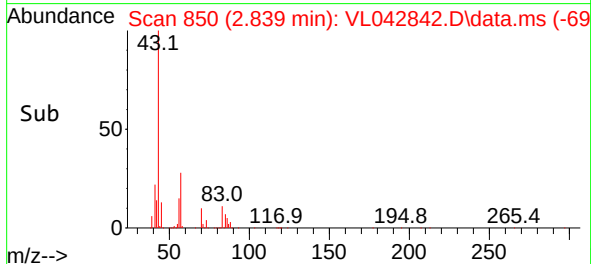
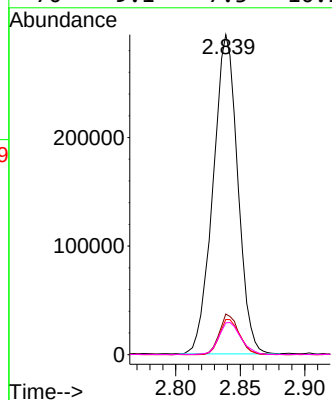
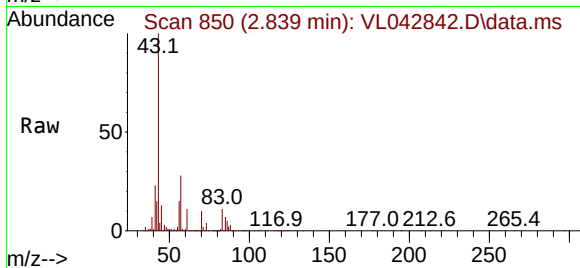




#25  
Ethyl Acetate  
Concen: 9.159 ppbv  
RT: 2.839 min Scan# 850  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

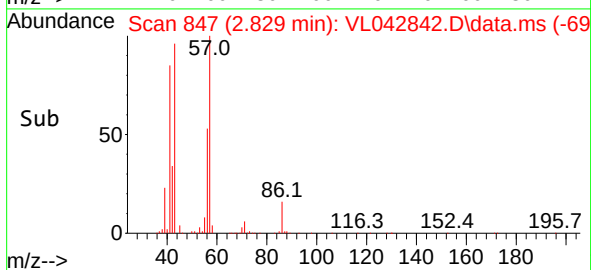
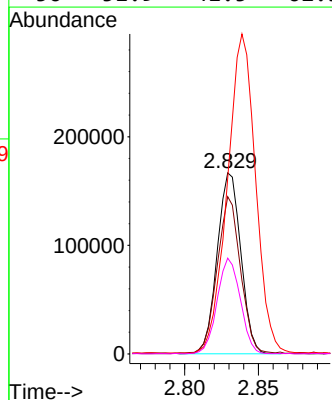
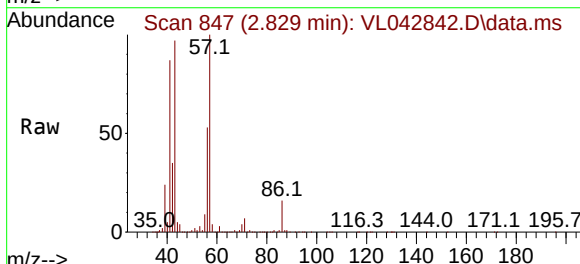
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

| Tgt Ion: | 43    | Resp: | 390295 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.1  | 8.1   | 12.1   |
| 61       | 9.3   | 7.4   | 11.2   |
| 70       | 9.1   | 7.3   | 10.9   |

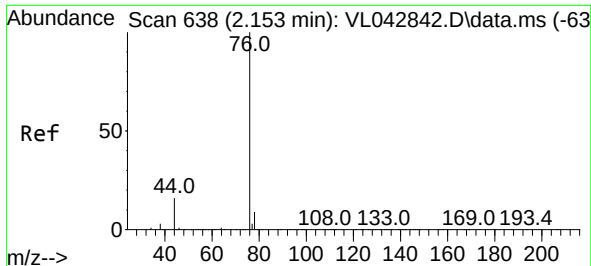


#26  
Hexane  
Concen: 9.420 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

| Tgt Ion: | 57    | Resp: | 185288 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 85.8  | 68.6  | 103.0  |
| 43       | 210.6 | 168.5 | 252.7  |
| 56       | 51.9  | 41.5  | 62.3   |



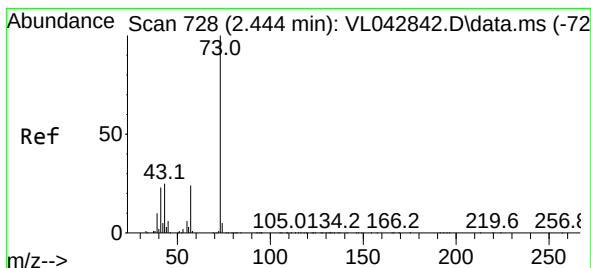
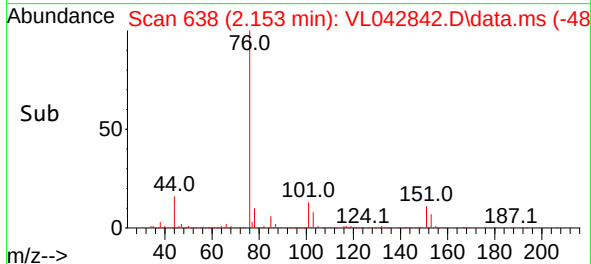
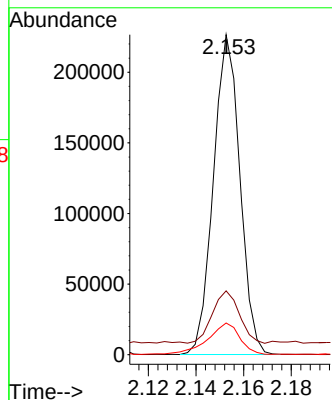
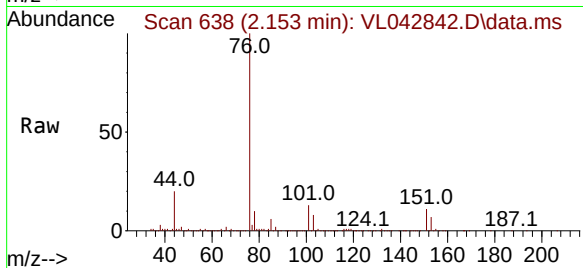




#27  
Carbon Disulfide  
Concen: 9.138 ppbv  
RT: 2.153 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

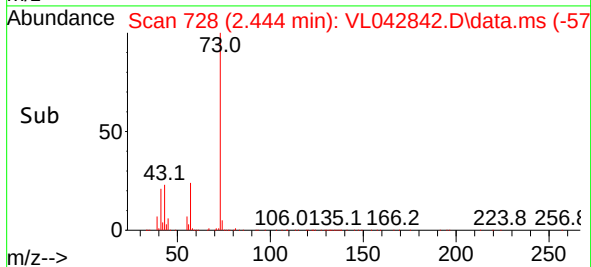
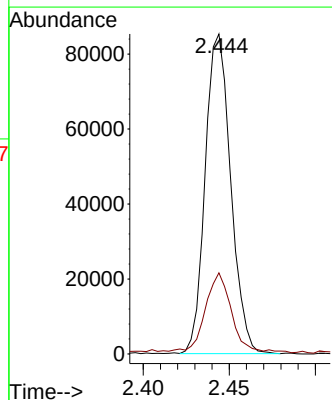
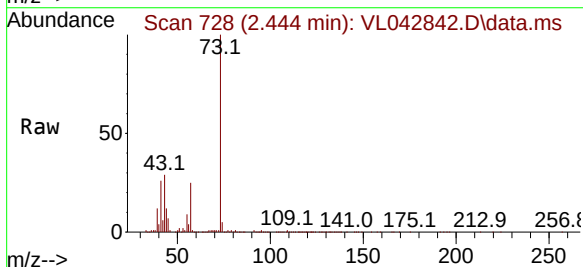
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

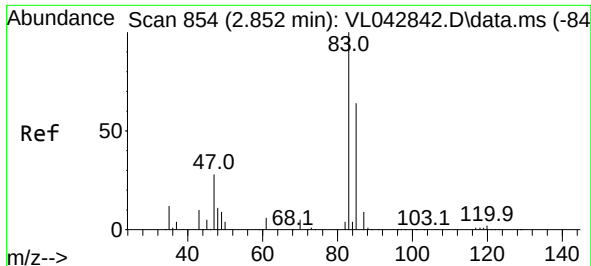
Tgt Ion: 76 Resp: 174928  
Ion Ratio Lower Upper  
76 100  
44 19.9 15.9 23.9  
78 11.9 9.5 14.3



#28  
Methyl tert-Butyl Ether  
Concen: 8.767 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 73 Resp: 87929  
Ion Ratio Lower Upper  
73 100  
57 27.0 21.6 32.4





#29

Chloroform

Concen: 9.158 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_1

ClientSampleId :

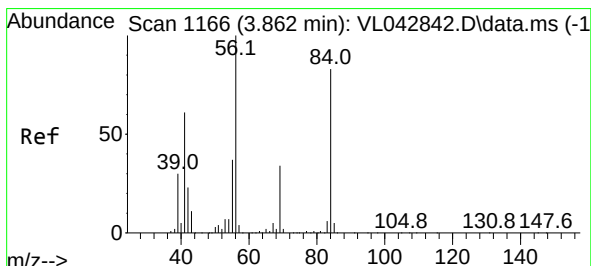
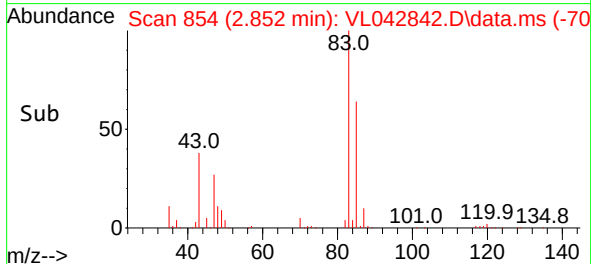
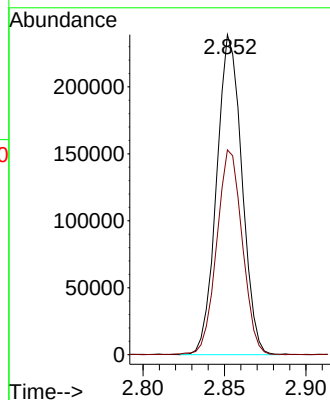
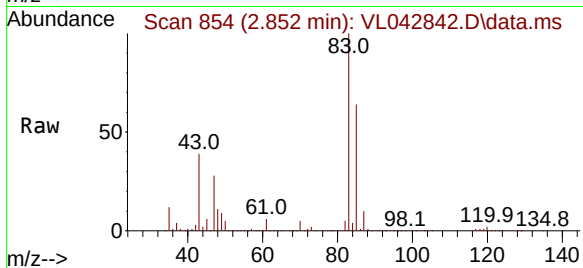
VSTDICCC010

Tgt Ion: 83 Resp: 257176

Ion Ratio Lower Upper

83 100

85 63.9 51.1 76.7



#30

Cyclohexane

Concen: 9.367 ppbv

RT: 3.862 min Scan# 1166

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

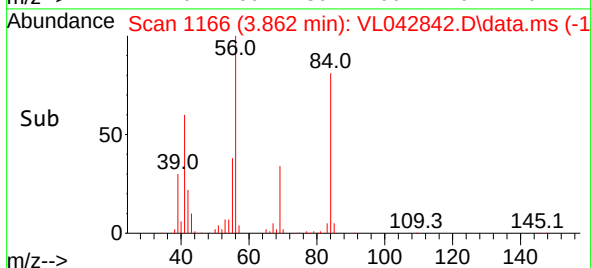
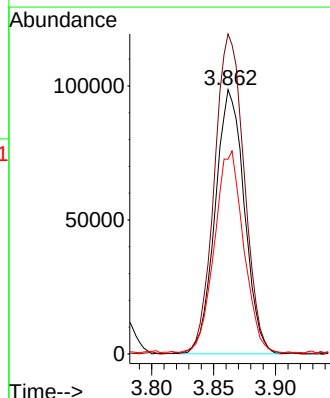
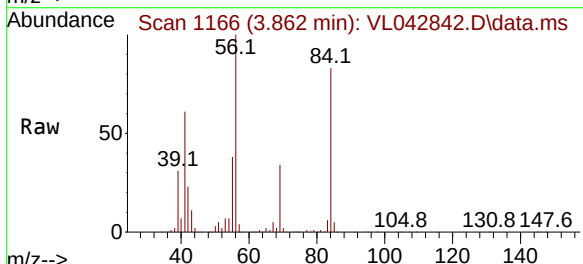
Tgt Ion: 84 Resp: 161540

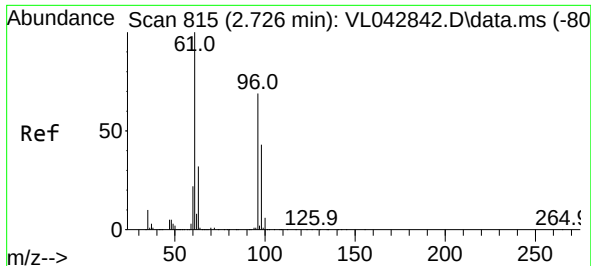
Ion Ratio Lower Upper

84 100

56 123.5 98.8 148.2

41 76.6 61.3 91.9





#31

cis-1,2-Dichloroethene

Concen: 9.107 ppbv

RT: 2.726 min Scan# 815

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

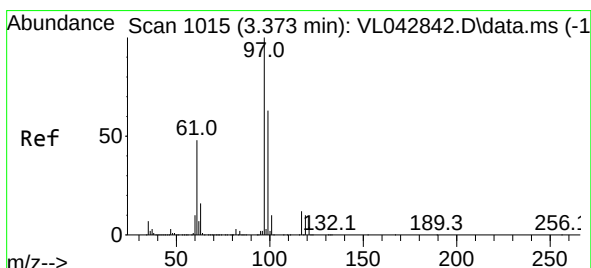
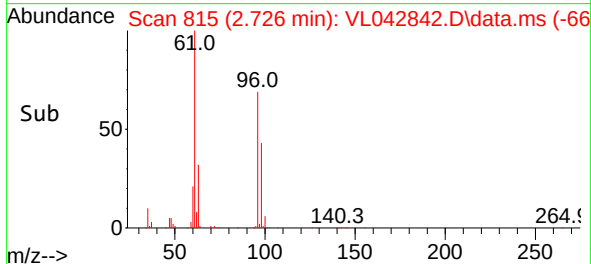
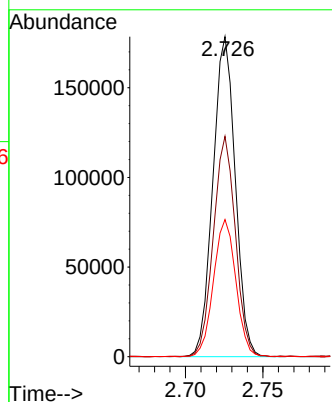
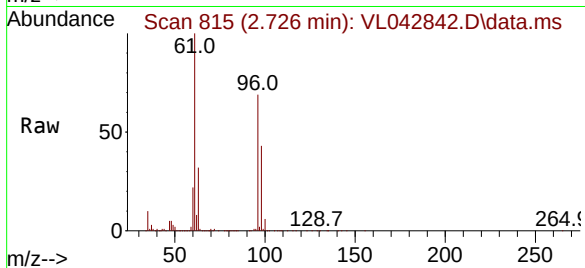
Tgt Ion: 61 Resp: 179162

Ion Ratio Lower Upper

61 100

96 68.8 55.0 82.6

98 42.9 34.3 51.5



#32

1,1,1-Trichloroethane

Concen: 8.946 ppbv

RT: 3.373 min Scan# 1015

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

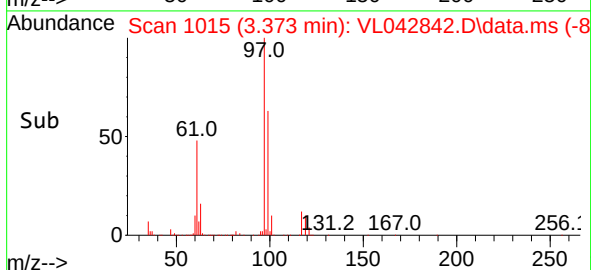
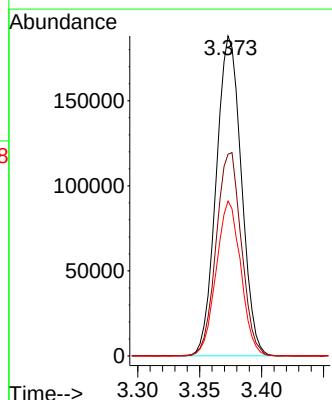
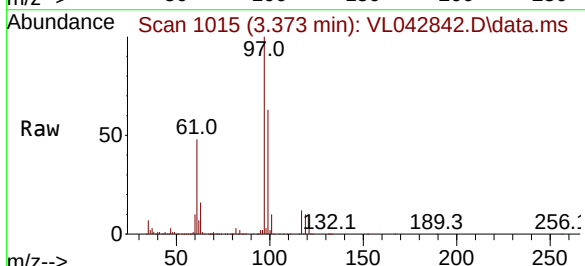
Tgt Ion: 97 Resp: 266021

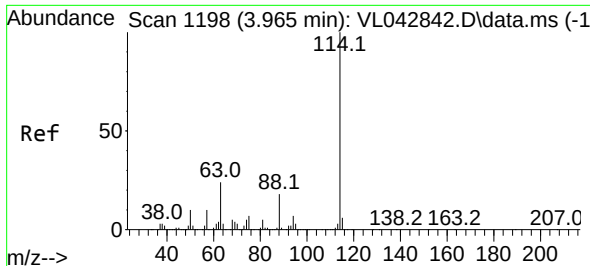
Ion Ratio Lower Upper

97 100

99 63.8 51.0 76.6

61 47.5 38.0 57.0

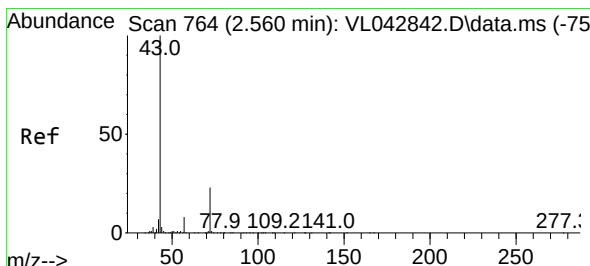
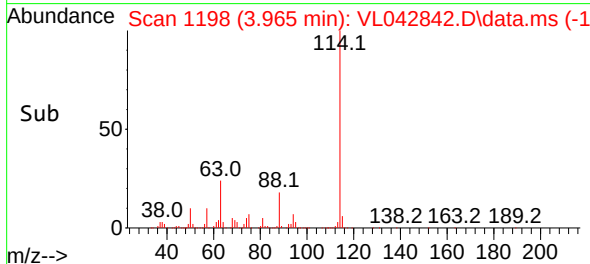
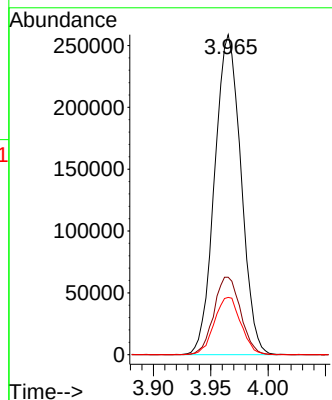
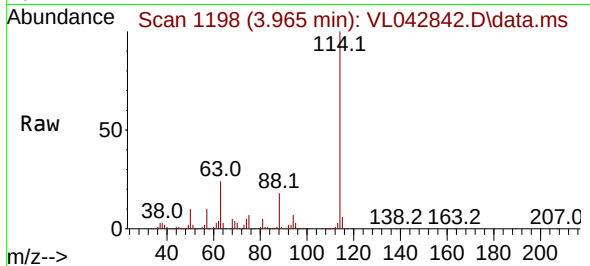




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.965 min Scan# 1198  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

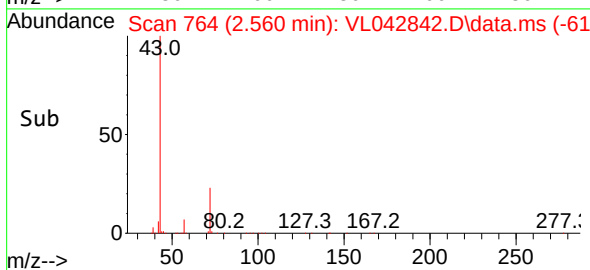
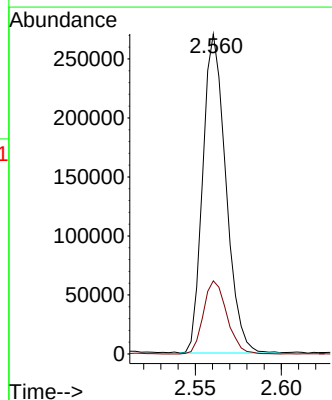
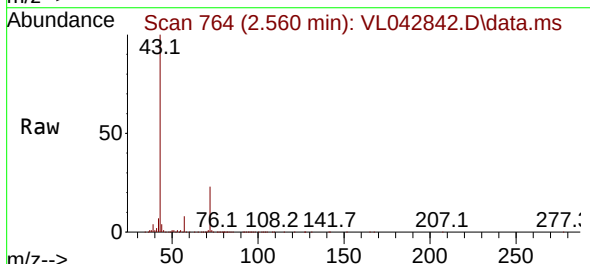
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

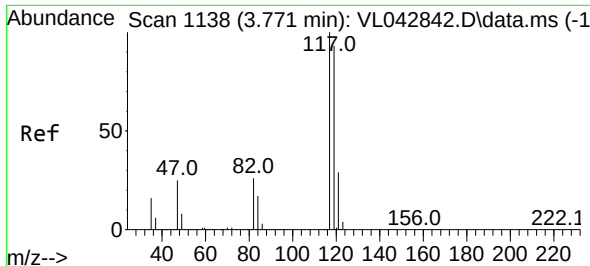
Tgt Ion:114 Resp: 413632  
 Ion Ratio Lower Upper  
 114 100  
 63 24.6 19.7 29.5  
 88 18.0 14.4 21.6



#34  
 2-Butanone  
 Concen: 9.033 ppbv  
 RT: 2.560 min Scan# 764  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

Tgt Ion: 43 Resp: 252300  
 Ion Ratio Lower Upper  
 43 100  
 72 23.3 18.6 28.0

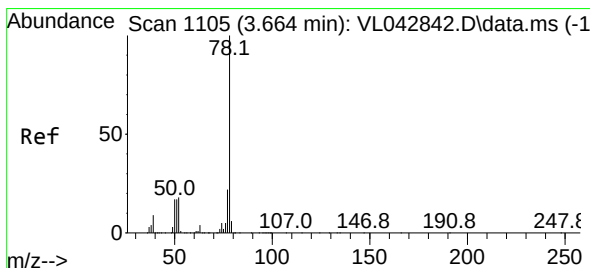
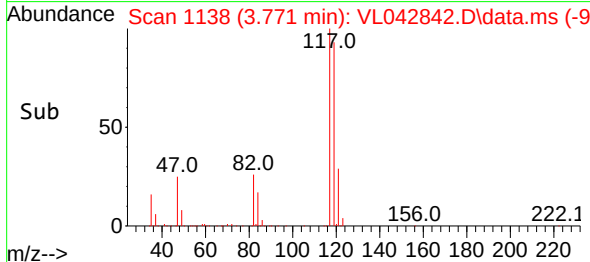
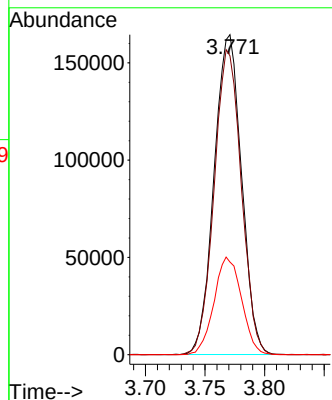
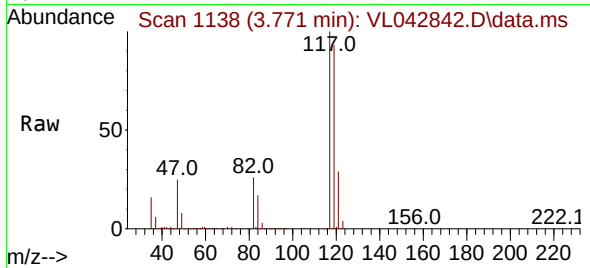




#35  
Carbon Tetrachloride  
Concen: 9.222 ppbv  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

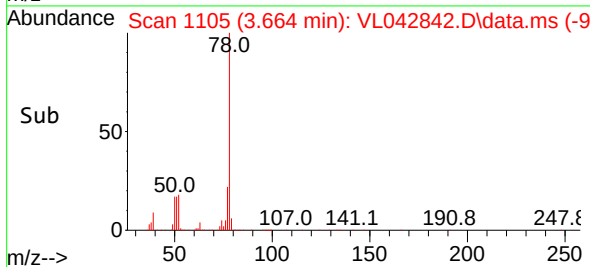
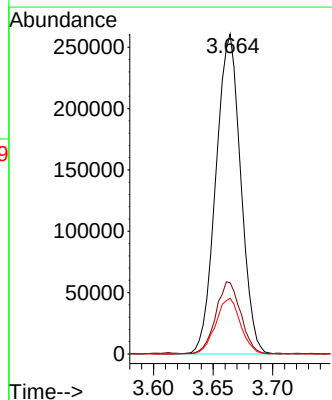
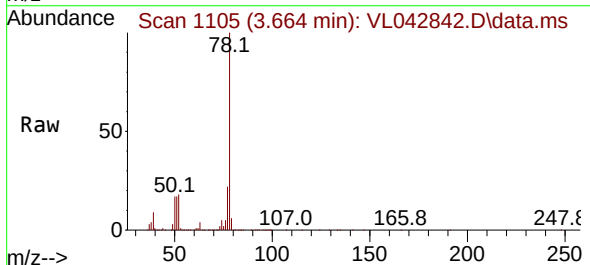
Instrument : MSVOA\_1  
ClientSampleId : VSTDICCC010

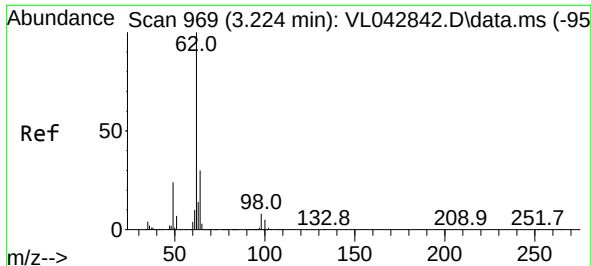
Tgt Ion:117 Resp: 262983  
Ion Ratio Lower Upper  
117 100  
119 93.4 74.7 112.1  
121 29.0 23.2 34.8



#36  
Benzene  
Concen: 9.521 ppbv  
RT: 3.664 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 78 Resp: 377113  
Ion Ratio Lower Upper  
78 100  
77 22.1 17.7 26.5  
50 17.4 13.9 20.9





#37

1,2-Dichloroethane

Concen: 9.653 ppbv

RT: 3.224 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

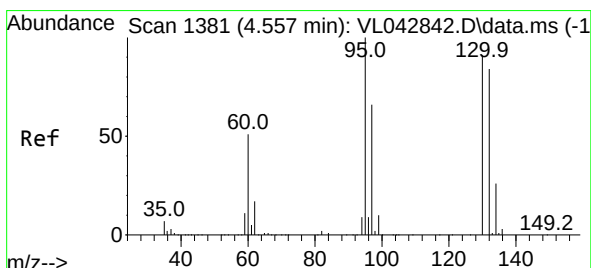
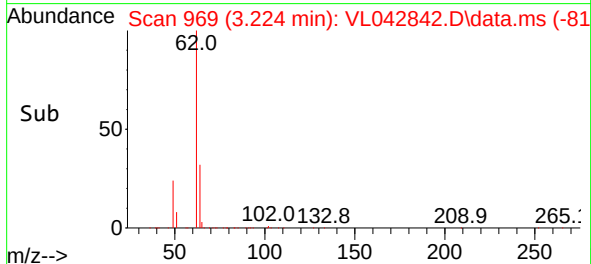
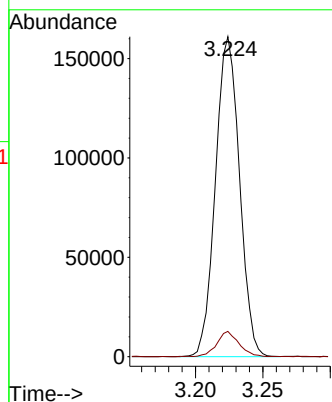
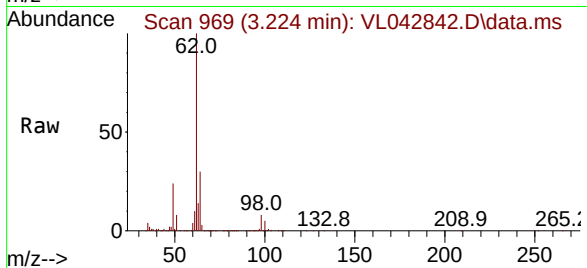
VSTDICCC010

Tgt Ion: 62 Resp: 199762

Ion Ratio Lower Upper

62 100

98 7.4 5.9 8.9



#38

Trichloroethene

Concen: 9.115 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion: 130 Resp: 164881

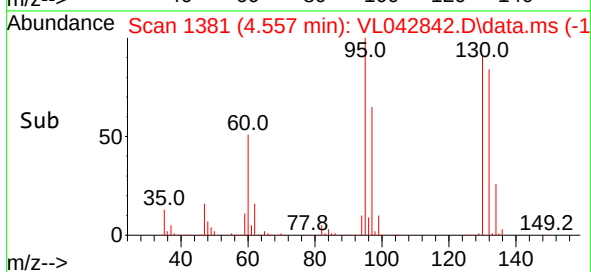
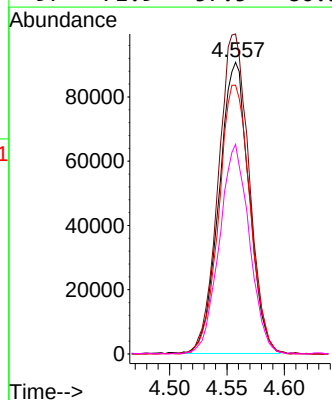
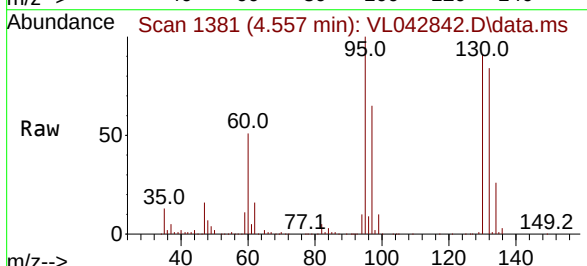
Ion Ratio Lower Upper

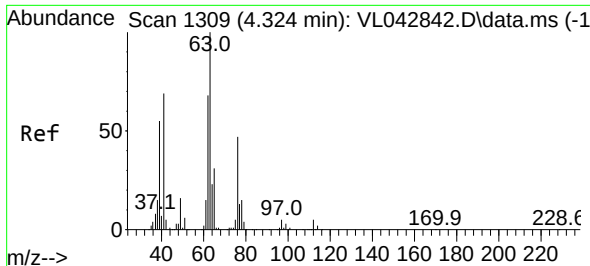
130 100

95 109.5 87.6 131.4

132 92.3 73.8 110.8

97 71.9 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.263 ppbv

RT: 4.324 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

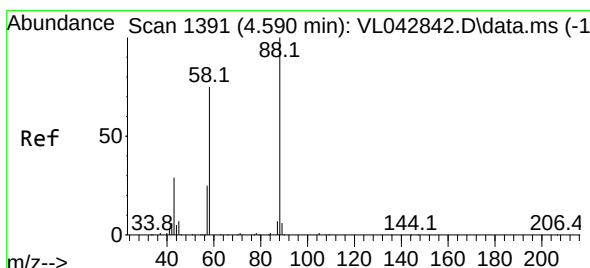
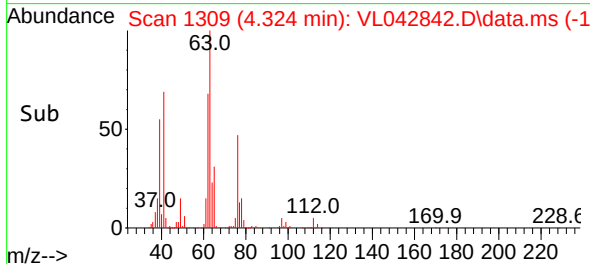
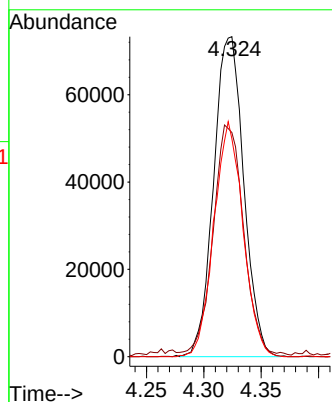
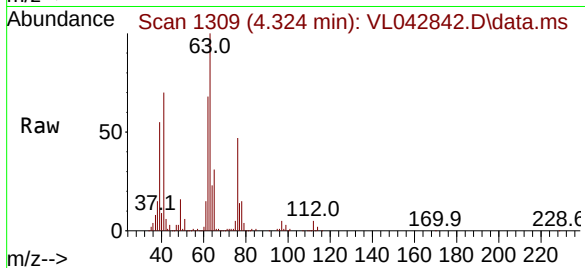
Tgt Ion: 63 Resp: 133996

Ion Ratio Lower Upper

63 100

41 68.7 55.0 82.4

62 68.0 54.4 81.6



#40

1,4-Dioxane

Concen: 9.064 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion: 88 Resp: 61378

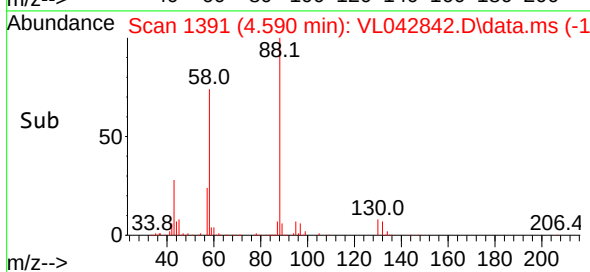
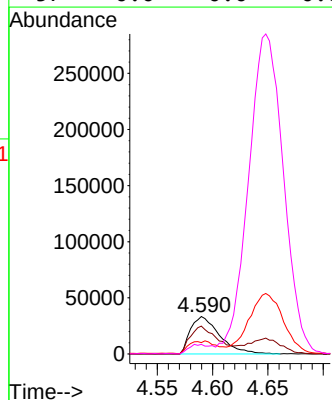
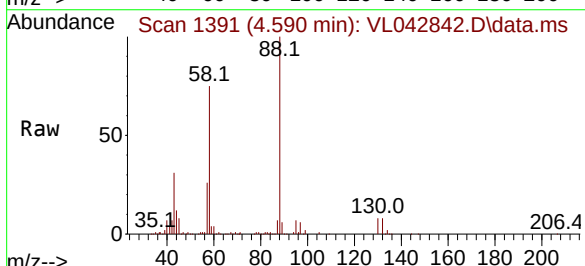
Ion Ratio Lower Upper

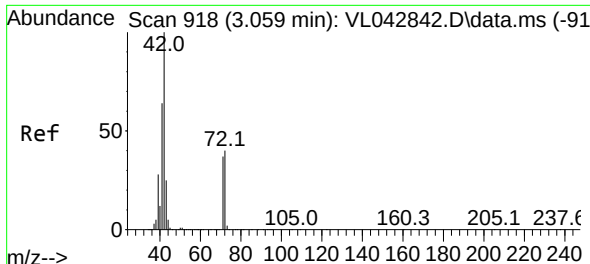
88 100

58 67.2 53.8 80.6

43 28.5 22.8 34.2

57 0.0 0.0 0.0

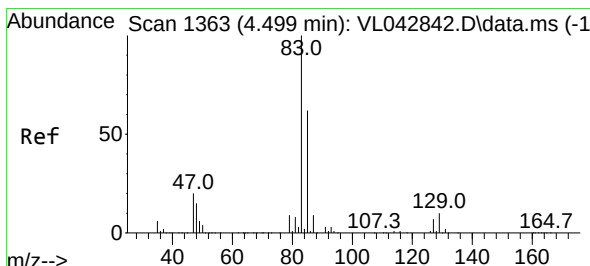
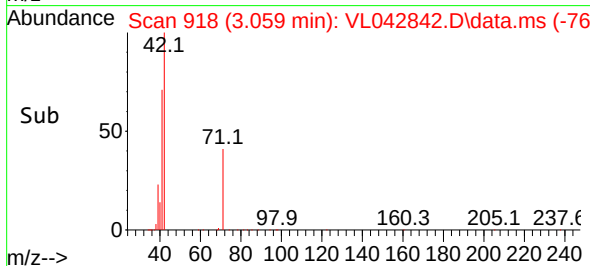
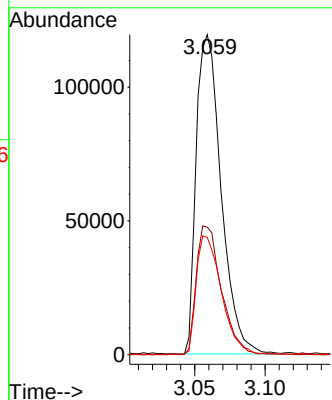
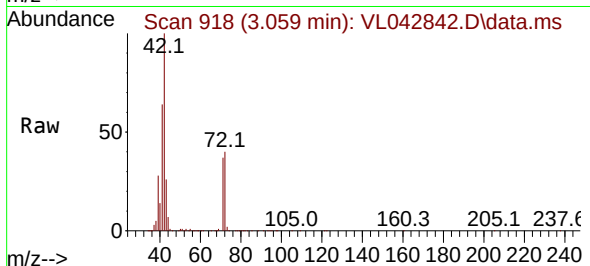




#41  
Tetrahydrofuran  
Concen: 9.442 ppbv  
RT: 3.059 min Scan# 918  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

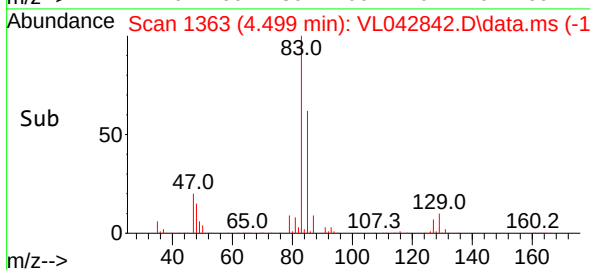
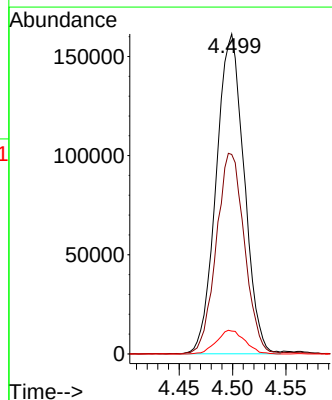
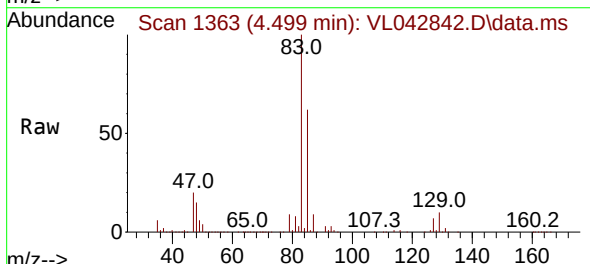
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

Tgt Ion: 42 Resp: 147025  
Ion Ratio Lower Upper  
42 100  
72 40.7 32.6 48.8  
71 37.5 30.0 45.0

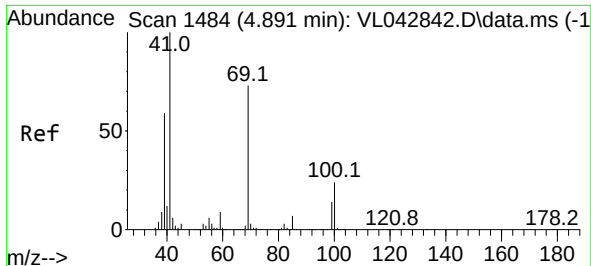


#42  
Bromodichloromethane  
Concen: 9.499 ppbv  
RT: 4.499 min Scan# 1363  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 83 Resp: 292909  
Ion Ratio Lower Upper  
83 100  
85 62.3 49.8 74.8  
127 7.2 5.8 8.6



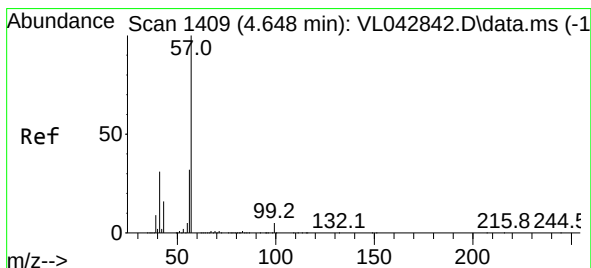
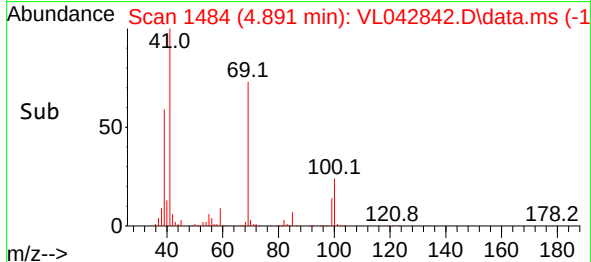
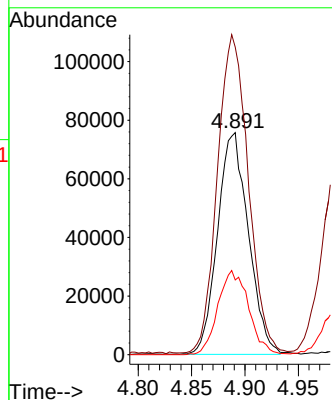
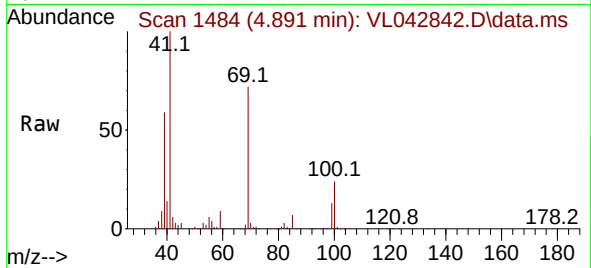




#43  
Methyl Methacrylate  
Concen: 9.357 ppbv  
RT: 4.891 min Scan# 1484  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

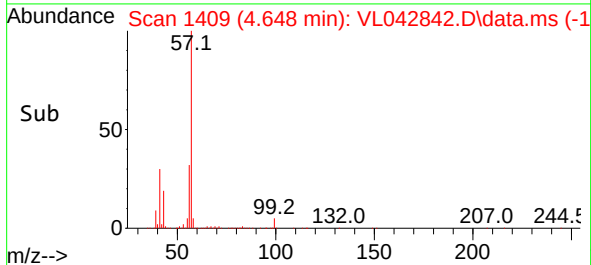
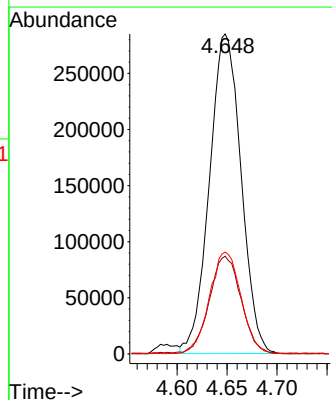
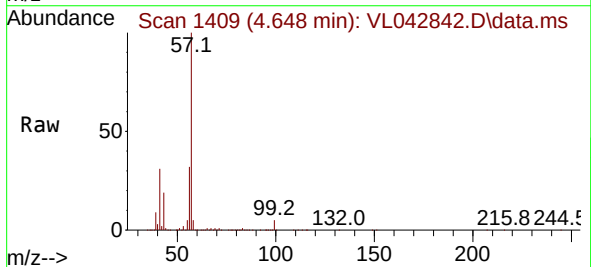
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

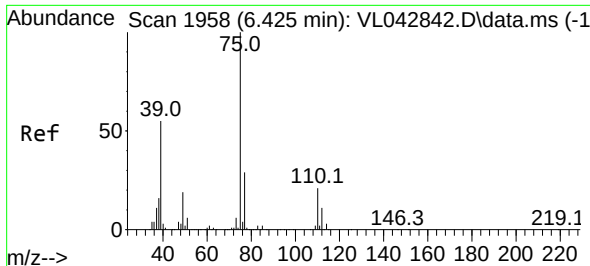
Tgt Ion: 69 Resp: 152035  
Ion Ratio Lower Upper  
69 100  
41 143.3 114.6 172.0  
100 37.8 30.2 45.4



#44  
2,2,4-Trimethylpentane  
Concen: 9.420 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 57 Resp: 626465  
Ion Ratio Lower Upper  
57 100  
41 31.0 24.8 37.2  
56 31.9 25.5 38.3

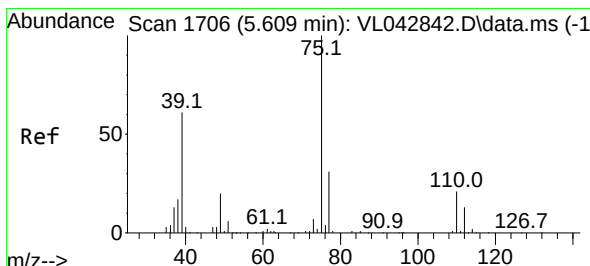
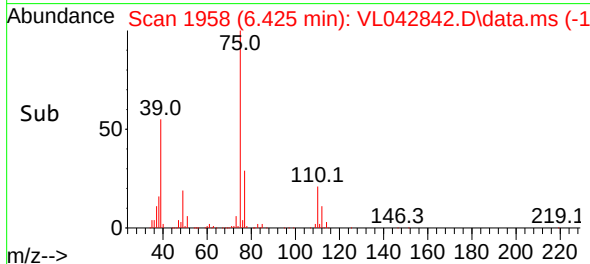
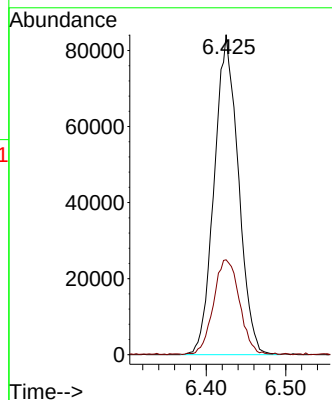
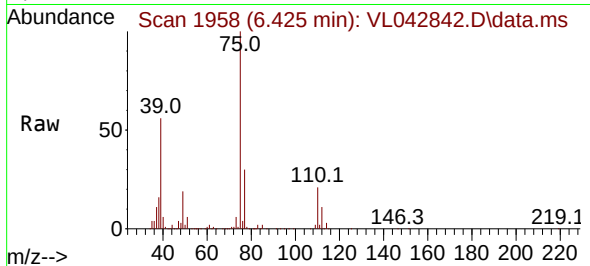




#45  
 t-1,3-Dichloropropene  
 Concen: 9.616 ppbv  
 RT: 6.425 min Scan# 1958  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

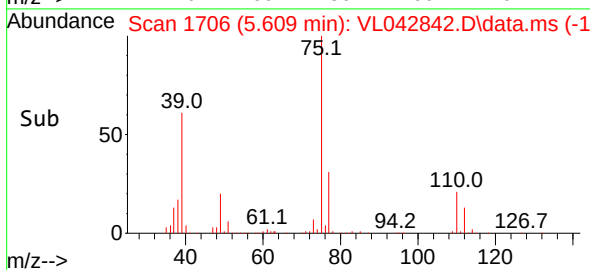
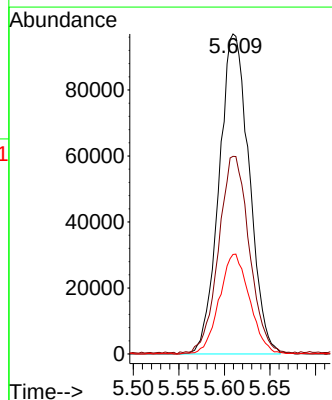
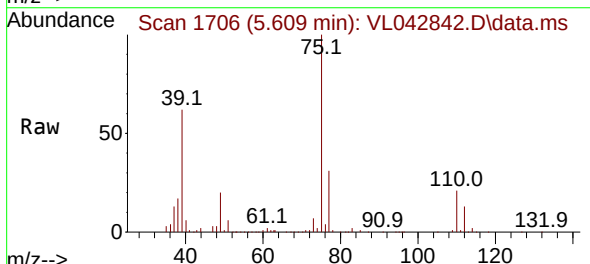
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

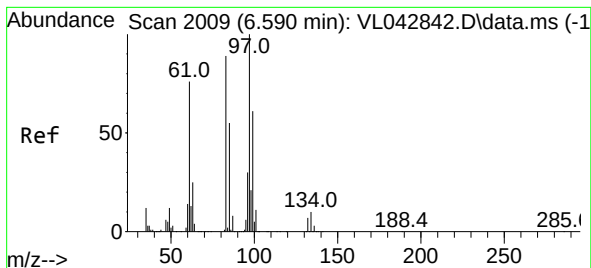
Tgt Ion: 75 Resp: 177207  
 Ion Ratio Lower Upper  
 75 100  
 77 29.7 23.8 35.6



#46  
 cis-1,3-Dichloropropene  
 Concen: 9.635 ppbv  
 RT: 5.609 min Scan# 1706  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

Tgt Ion: 75 Resp: 222921  
 Ion Ratio Lower Upper  
 75 100  
 39 61.1 48.9 73.3  
 77 31.1 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.215 ppbv

RT: 6.590 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICCC010

Tgt Ion: 97 Resp: 141105

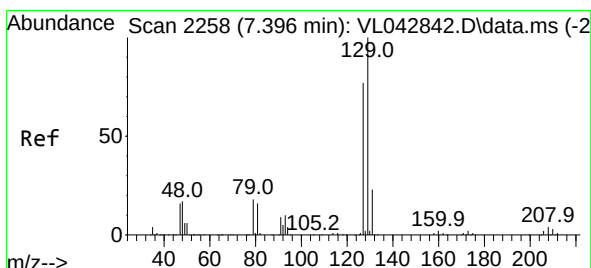
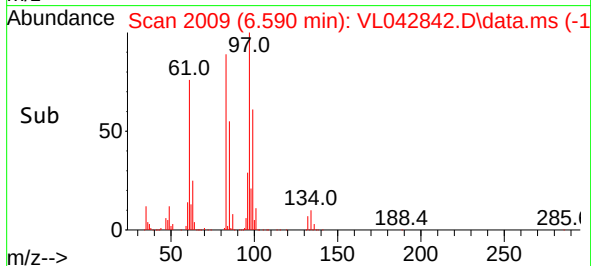
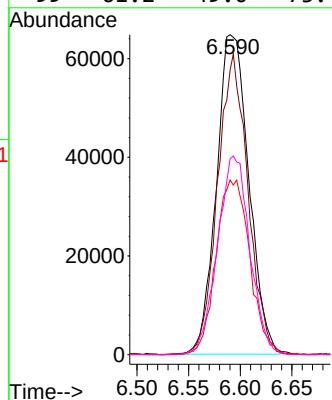
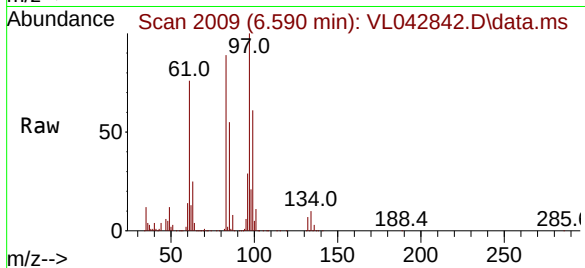
Ion Ratio Lower Upper

97 100

83 88.7 71.0 106.4

85 54.5 43.6 65.4

99 61.2 49.0 73.4



#48

Dibromochloromethane

Concen: 9.739 ppbv

RT: 7.396 min Scan# 2258

Delta R.T. 0.000 min

Lab File: VL042842.D

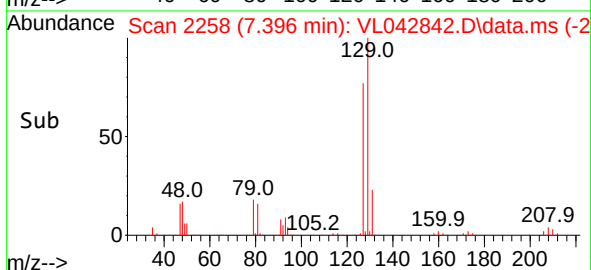
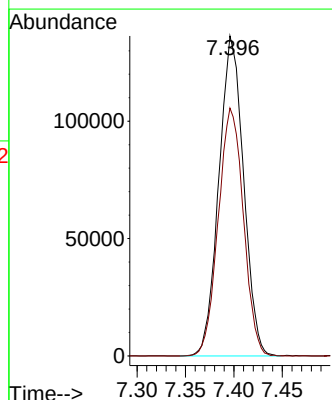
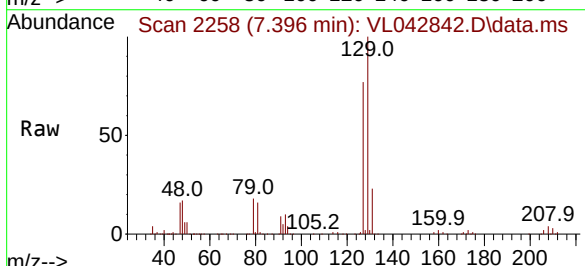
Acq: 13 Aug 2025 08:30

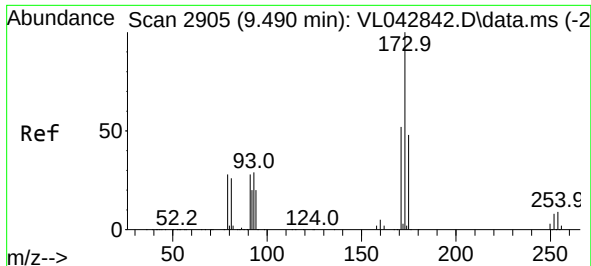
Tgt Ion: 129 Resp: 241553

Ion Ratio Lower Upper

129 100

127 78.8 39.4 118.2





#49

Bromoform

Concen: 9.923 ppbv

RT: 9.490 min Scan# 2905

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICCC010

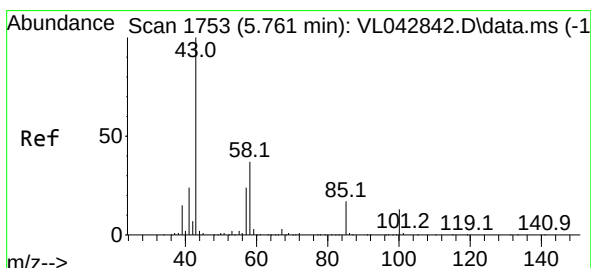
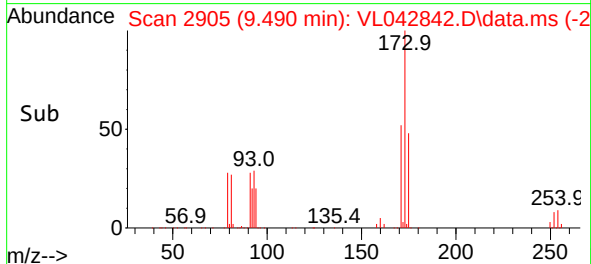
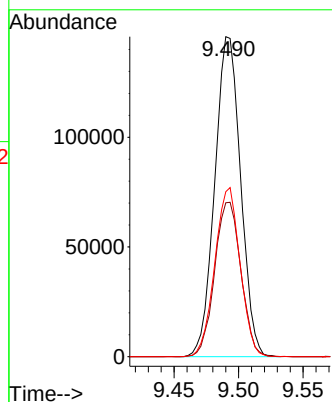
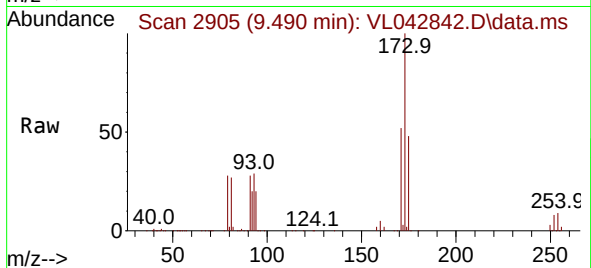
Tgt Ion:173 Resp: 202975

Ion Ratio Lower Upper

173 100

175 49.0 39.2 58.8

171 51.6 41.3 61.9



#50

4-Methyl-2-Pentanone

Concen: 9.616 ppbv

RT: 5.761 min Scan# 1753

Delta R.T. 0.000 min

Lab File: VL042842.D

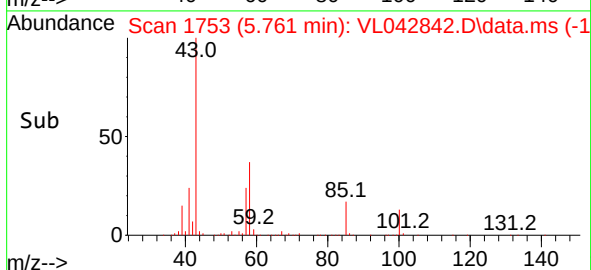
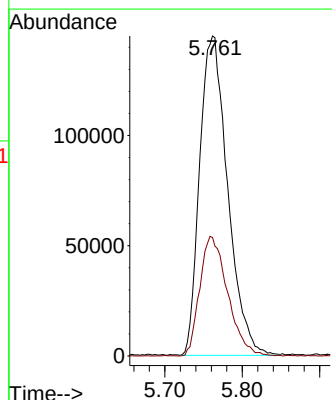
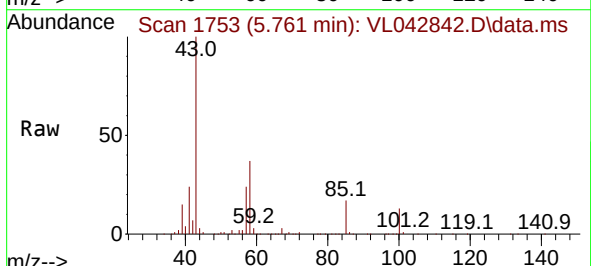
Acq: 13 Aug 2025 08:30

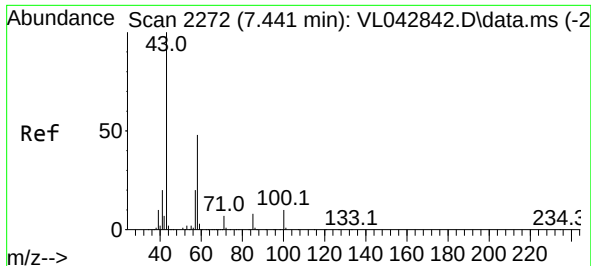
Tgt Ion: 43 Resp: 364306

Ion Ratio Lower Upper

43 100

58 37.3 29.8 44.8

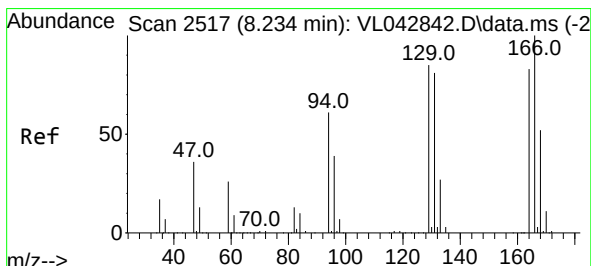
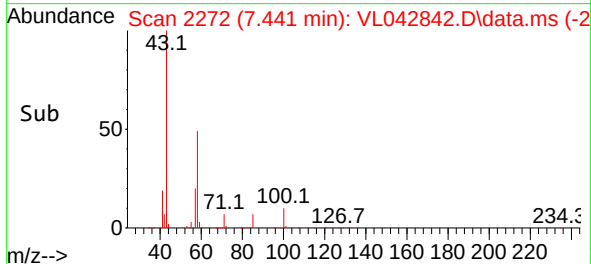
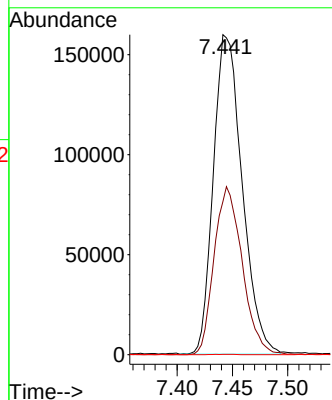
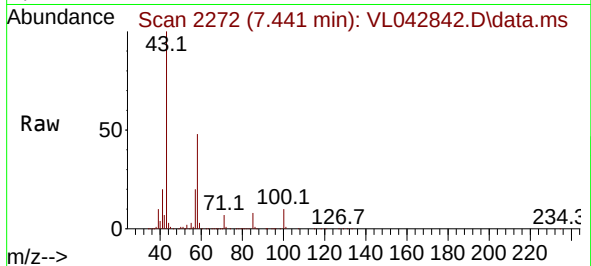




#51  
2-Hexanone  
Concen: 9.730 ppbv  
RT: 7.441 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

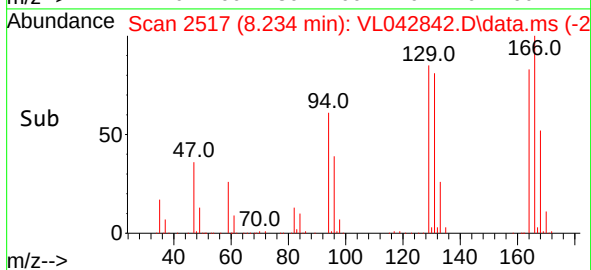
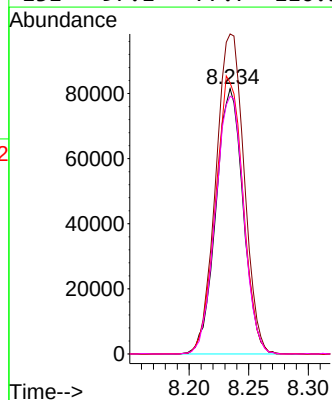
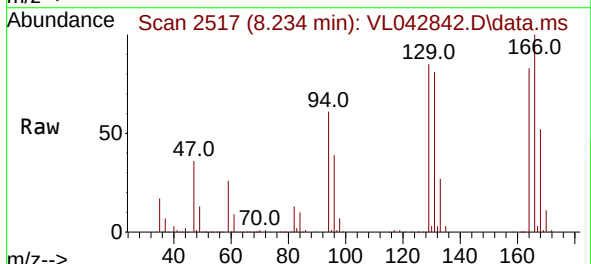
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

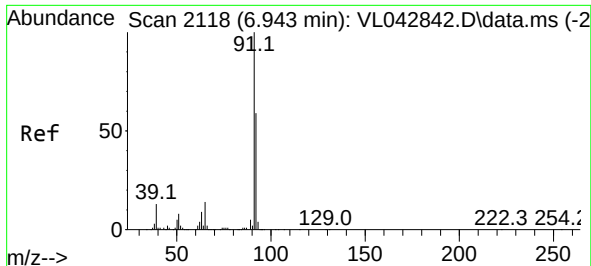
Tgt Ion: 43 Resp: 289052  
Ion Ratio Lower Upper  
43 100  
58 51.3 41.0 61.6  
98 0.1 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 9.026 ppbv  
RT: 8.234 min Scan# 2517  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 164 Resp: 129484  
Ion Ratio Lower Upper  
164 100  
166 120.6 96.5 144.7  
129 102.2 81.8 122.6  
131 97.1 77.7 116.5

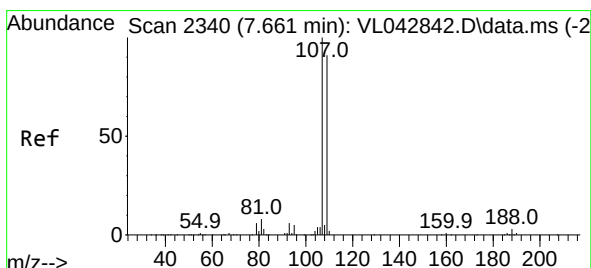
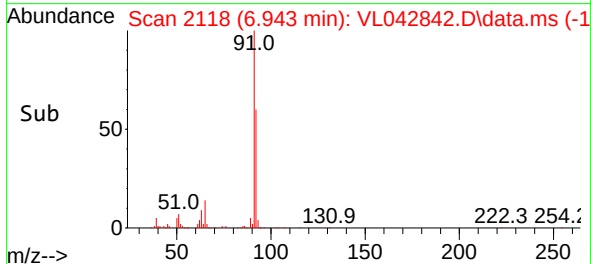
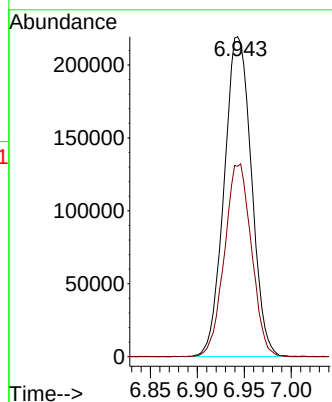
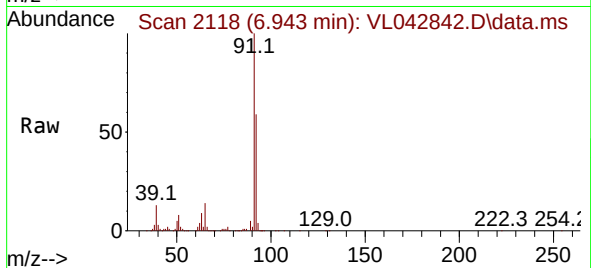




#53  
Toluene  
Concen: 9.407 ppbv  
RT: 6.943 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

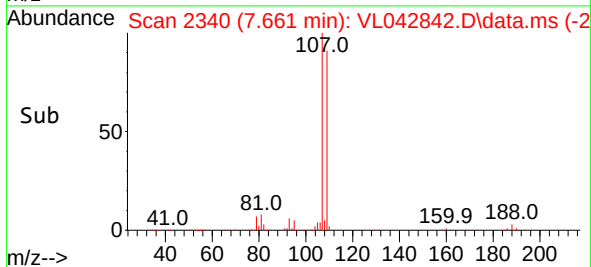
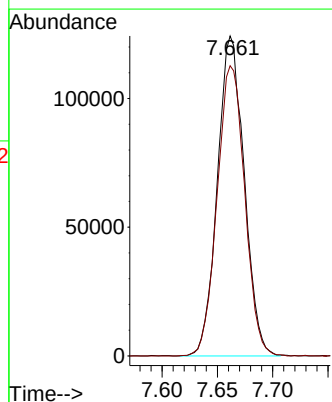
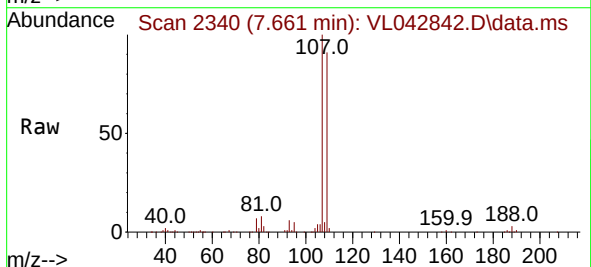
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

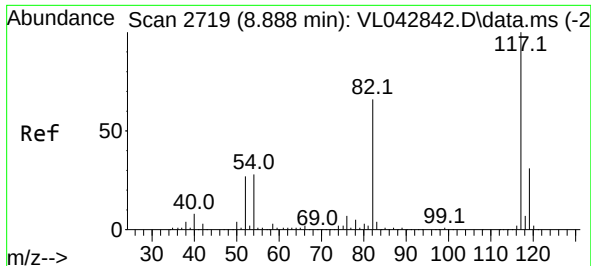
Tgt Ion: 91 Resp: 443400  
Ion Ratio Lower Upper  
91 100  
92 59.7 47.8 71.6



#54  
1,2-Dibromoethane  
Concen: 9.345 ppbv  
RT: 7.661 min Scan# 2340  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 107 Resp: 209330  
Ion Ratio Lower Upper  
107 100  
109 90.6 72.5 108.7

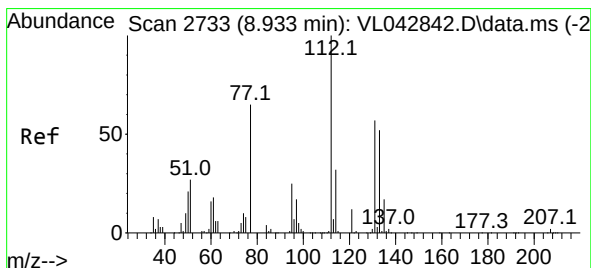
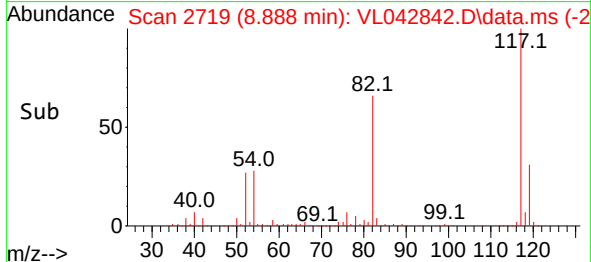
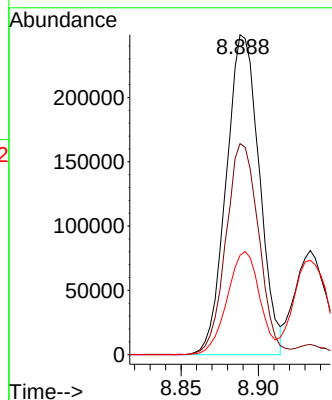
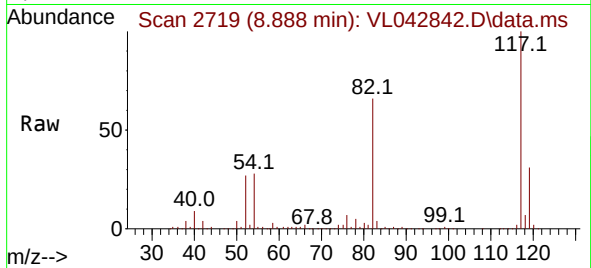




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2719  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

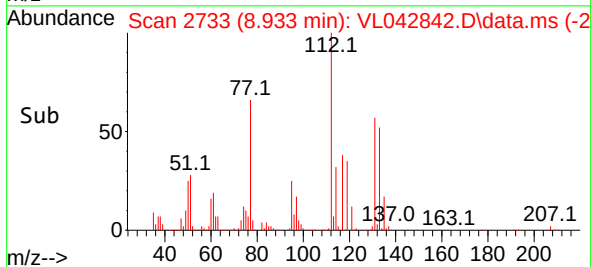
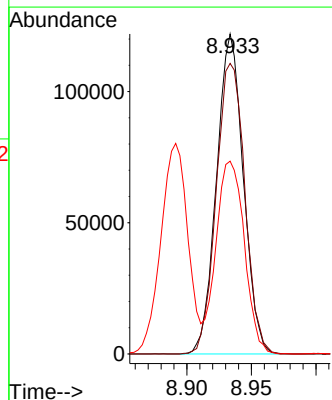
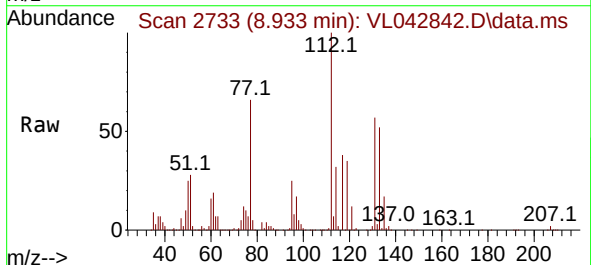
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

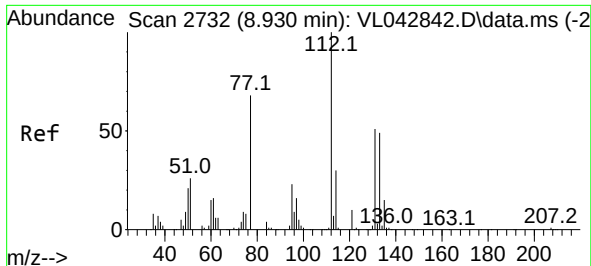
Tgt Ion:117 Resp: 370372  
Ion Ratio Lower Upper  
117 100  
82 68.2 54.6 81.8  
119 32.4 25.9 38.9



#56  
1,1,1,2-Tetrachloroethane  
Concen: 9.196 ppbv  
RT: 8.933 min Scan# 2733  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion:131 Resp: 176135  
Ion Ratio Lower Upper  
131 100  
133 96.7 77.4 116.0  
119 64.0 51.2 76.8

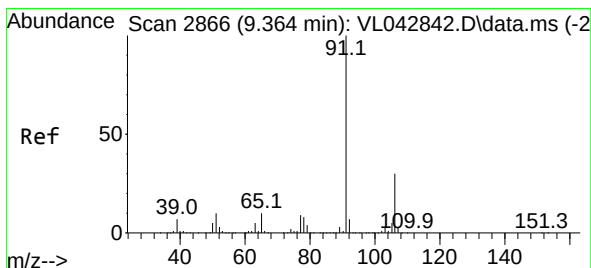
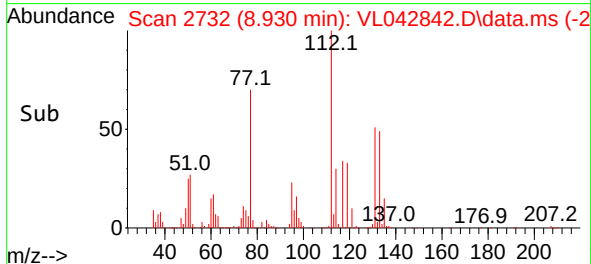
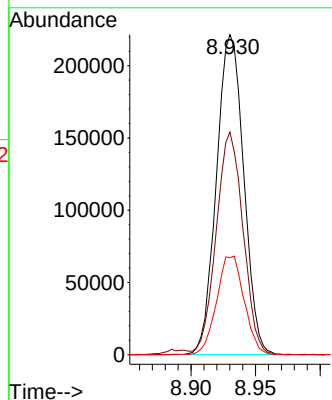
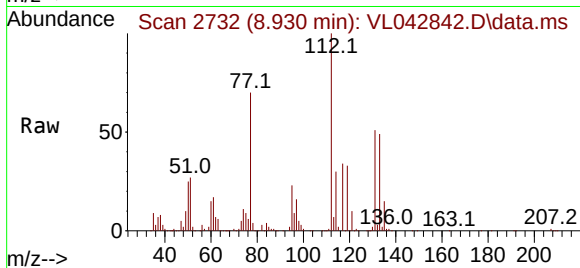




#57  
Chlorobenzene  
Concen: 9.237 ppbv  
RT: 8.930 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

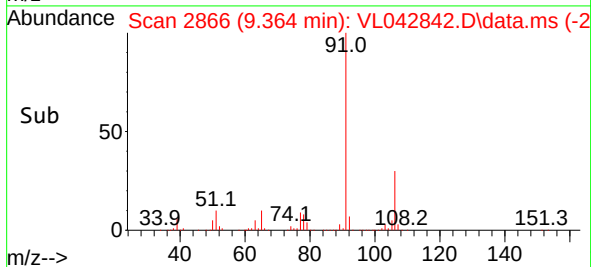
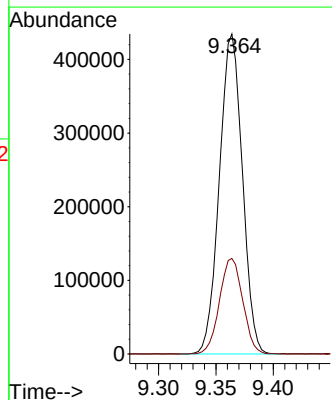
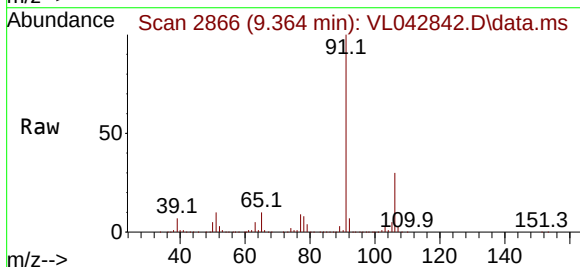
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

Tgt Ion:112 Resp: 325303  
Ion Ratio Lower Upper  
112 100  
77 69.4 55.5 83.3  
114 30.2 27.2 33.2

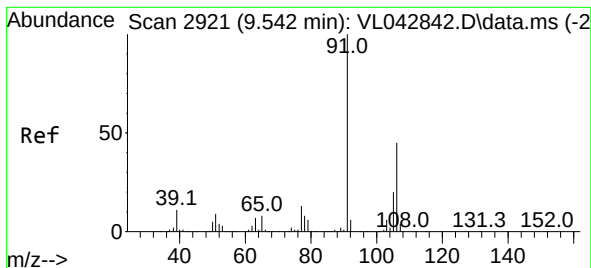


#58  
Ethyl Benzene  
Concen: 9.268 ppbv  
RT: 9.364 min Scan# 2866  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 605785  
Ion Ratio Lower Upper  
91 100  
106 29.9 23.9 35.9







#59

m/p-Xylene

Concen: 10.505 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_L

ClientSampleId :

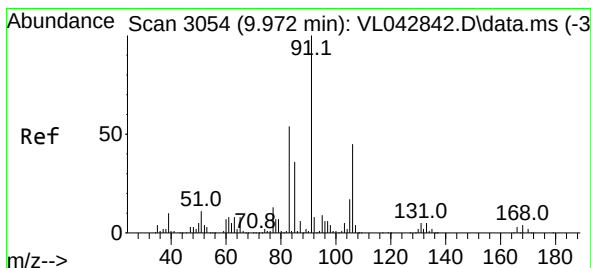
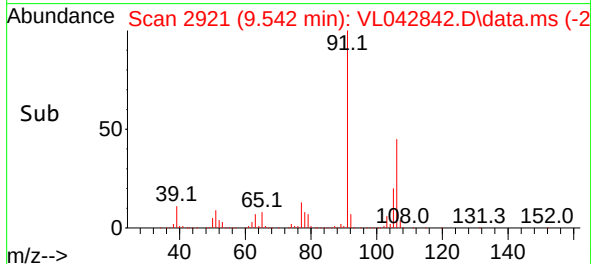
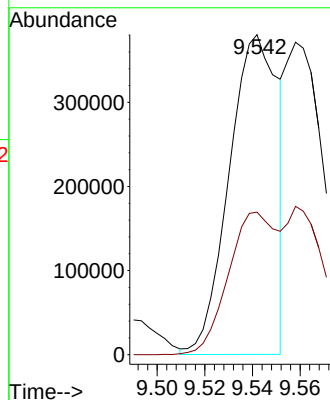
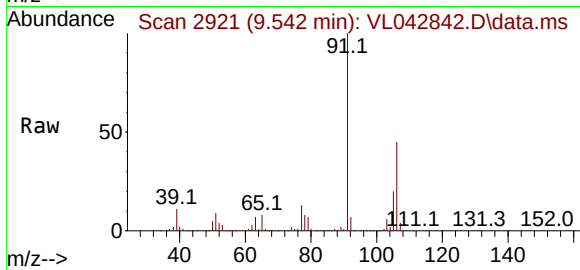
VSTDICCC010

Tgt Ion: 91 Resp: 539072

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 9.102 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042842.D

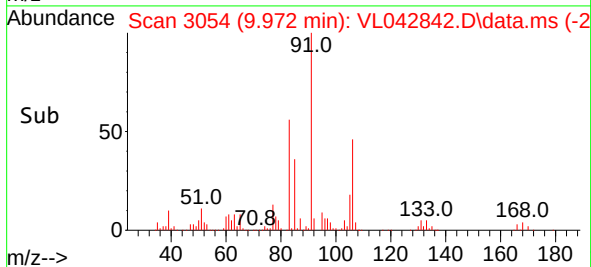
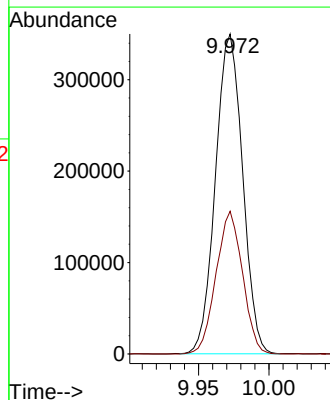
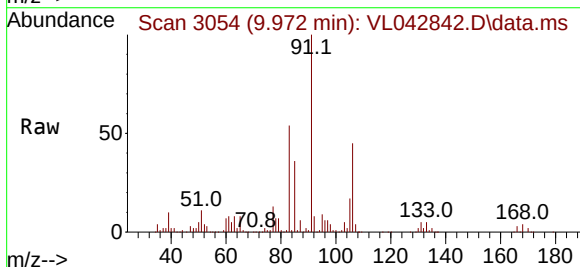
Acq: 13 Aug 2025 08:30

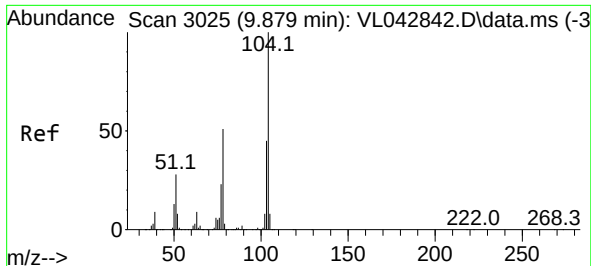
Tgt Ion: 91 Resp: 469073

Ion Ratio Lower Upper

91 100

106 43.6 21.8 65.4

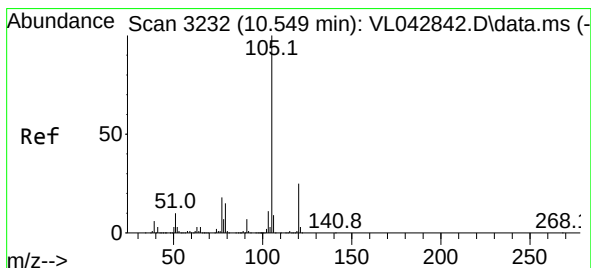
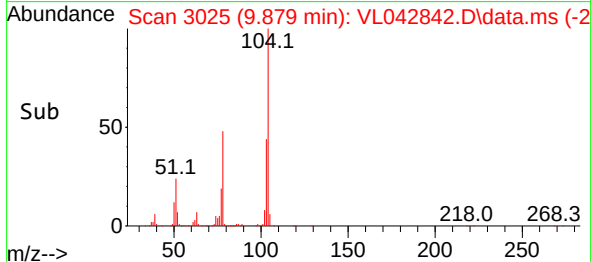
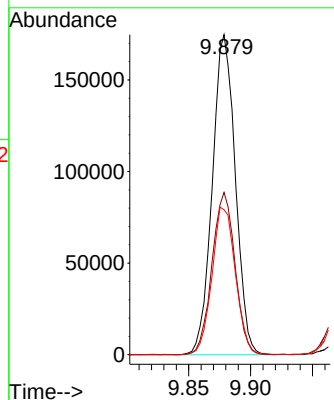
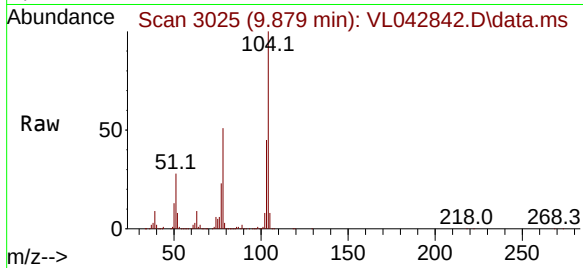




#61  
Styrene  
Concen: 9.362 ppbv  
RT: 9.879 min Scan# 3025  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

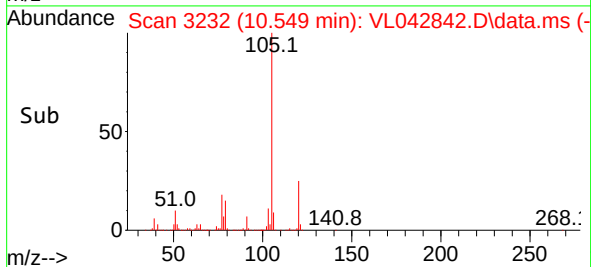
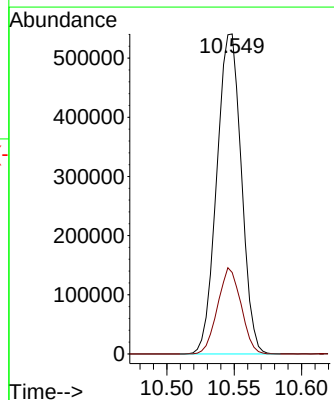
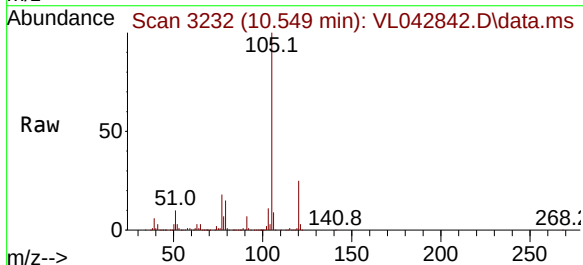
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

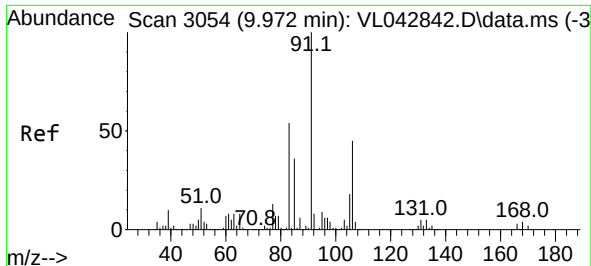
Tgt Ion:104 Resp: 226056  
Ion Ratio Lower Upper  
104 100  
78 50.8 40.6 61.0  
103 47.1 37.7 56.5



#62  
Isopropylbenzene  
Concen: 9.108 ppbv  
RT: 10.549 min Scan# 3232  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 685983  
Ion Ratio Lower Upper  
105 100  
120 25.7 20.6 30.8

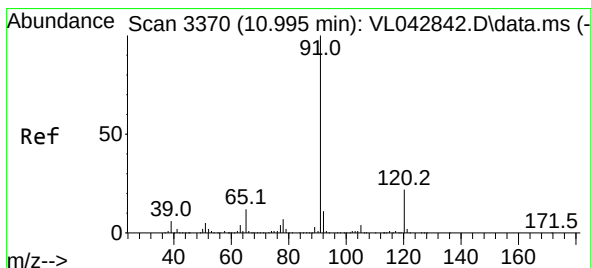
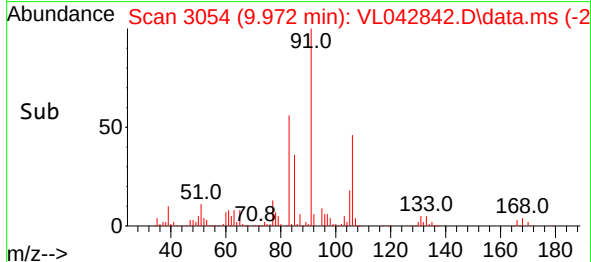
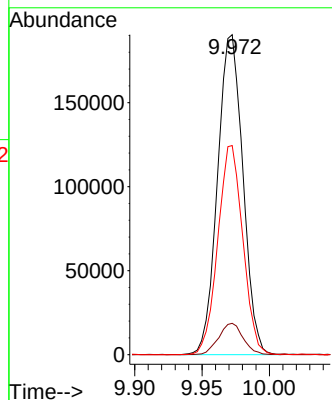
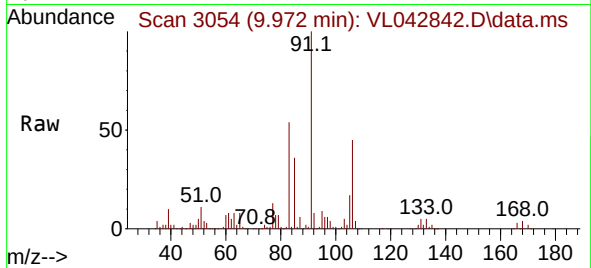




#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.870 ppbv  
RT: 9.972 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

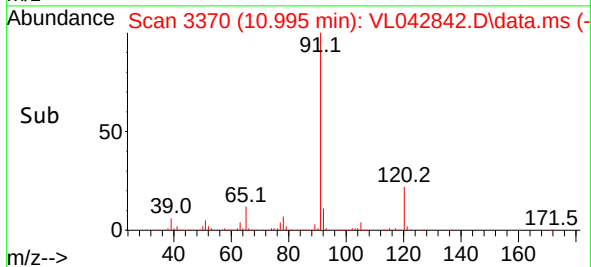
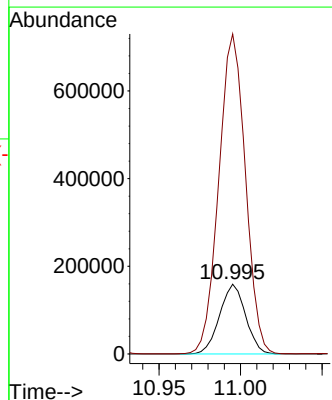
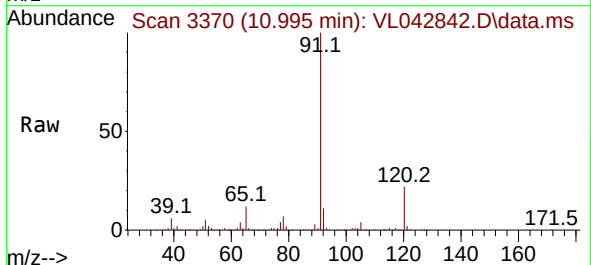
Instrument : MSVOA\_1  
ClientSampleId : VSTDICCC010

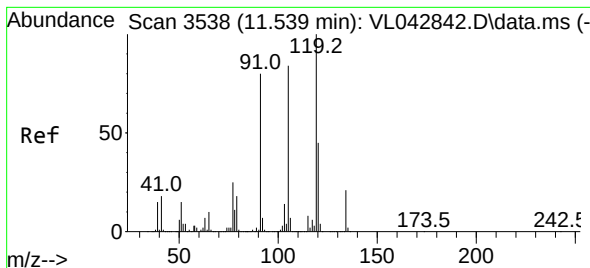
Tgt Ion: 83 Resp: 249621  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 64.5 32.3 96.8



#64  
n-propylbenzene  
Concen: 9.158 ppbv  
RT: 10.995 min Scan# 3370  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 120 Resp: 175986  
Ion Ratio Lower Upper  
120 100  
91 469.7 375.8 563.6

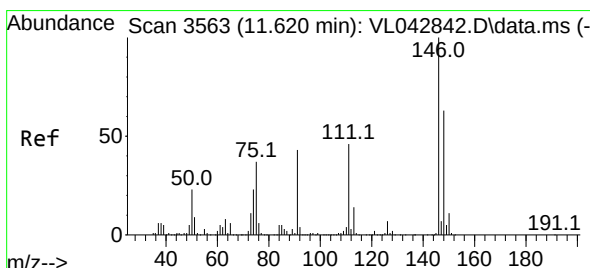
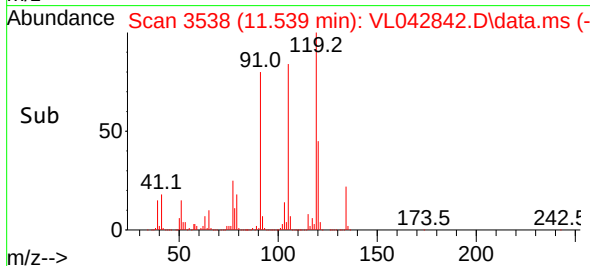
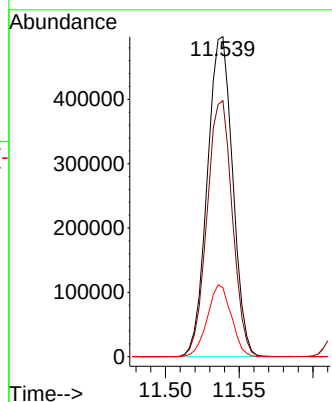
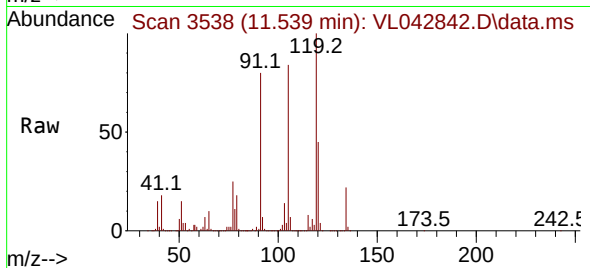




#65  
tert-Butylbenzene  
Concen: 8.951 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

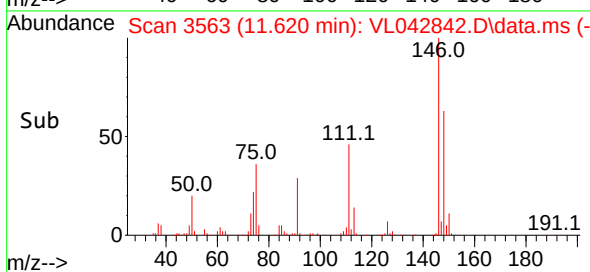
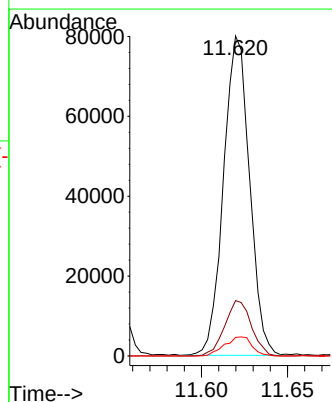
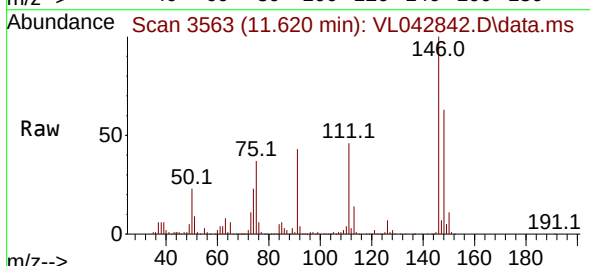
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

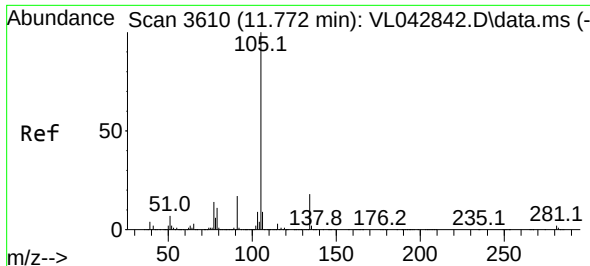
Tgt Ion:119 Resp: 594314  
Ion Ratio Lower Upper  
119 100  
91 79.9 63.9 95.9  
134 21.2 17.0 25.4



#66  
Benzyl Chloride  
Concen: 9.985 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 84156  
Ion Ratio Lower Upper  
91 100  
126 17.8 14.2 21.4  
128 6.3 5.0 7.6

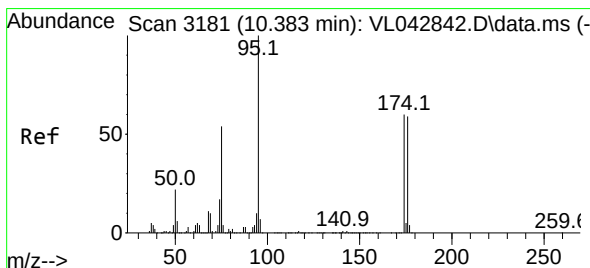
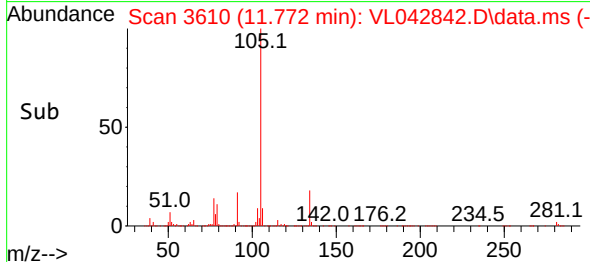
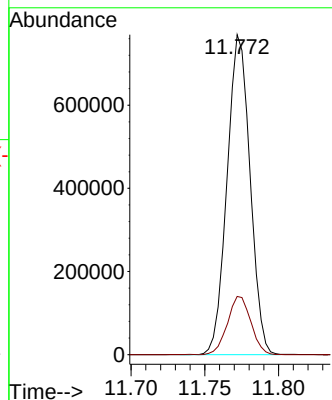
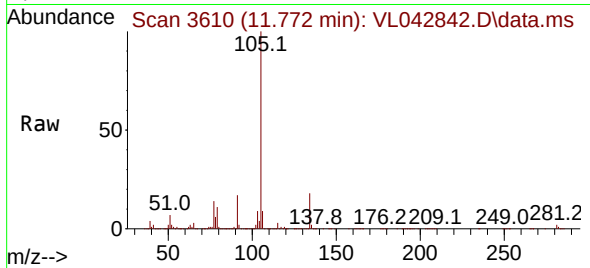




#67  
 sec-Butylbenzene  
 Concen: 8.943 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

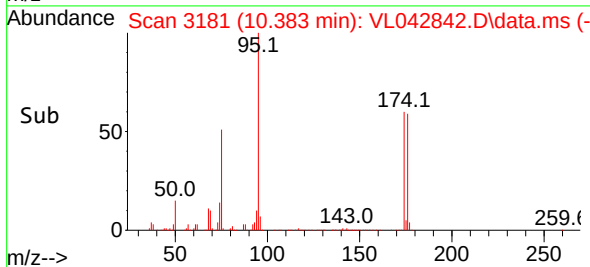
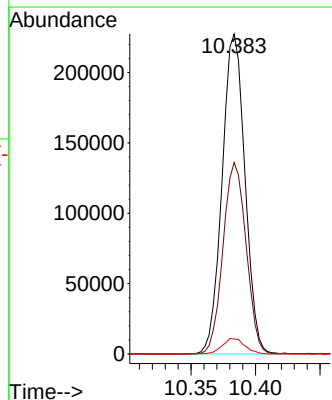
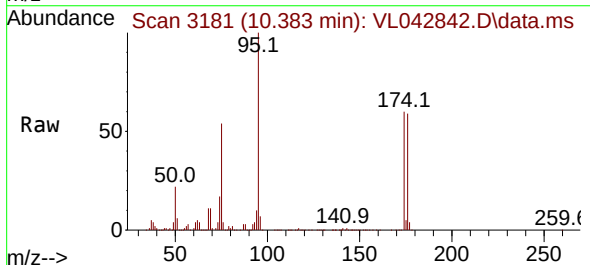
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

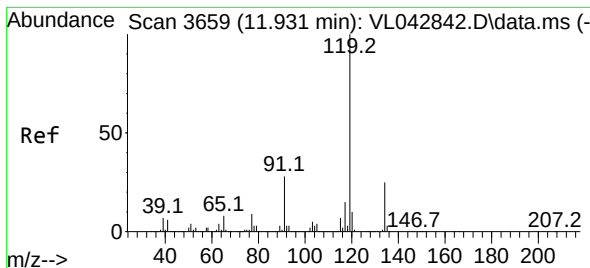
Tgt Ion:105 Resp: 833378  
 Ion Ratio Lower Upper  
 105 100  
 134 18.6 14.9 22.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.064 ppbv  
 RT: 10.383 min Scan# 3181  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

Tgt Ion: 95 Resp: 279557  
 Ion Ratio Lower Upper  
 95 100  
 174 60.5 48.4 72.6  
 175 4.8 3.8 5.8

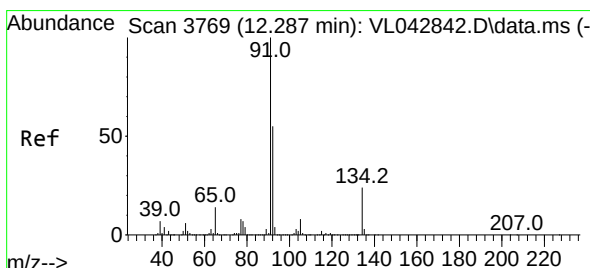
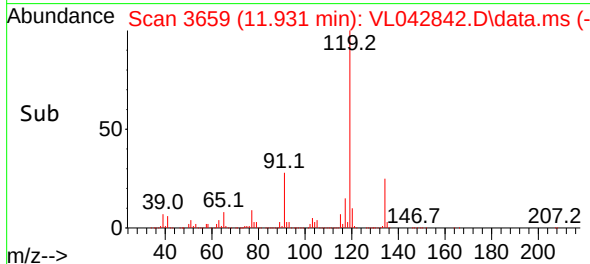
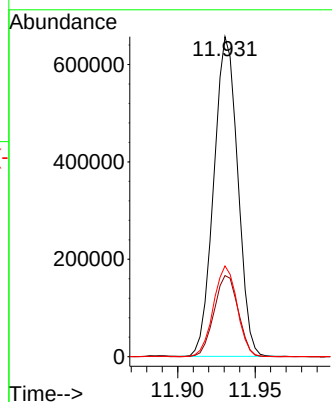
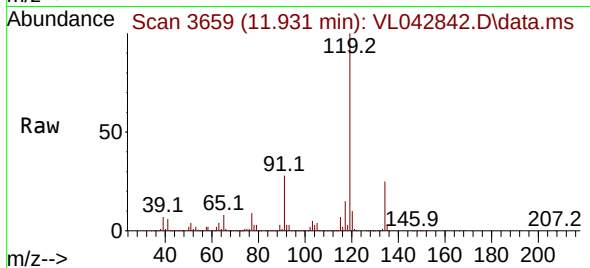




#69  
 p-Isopropyltoluene  
 Concen: 8.820 ppbv  
 RT: 11.931 min Scan# 3659  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

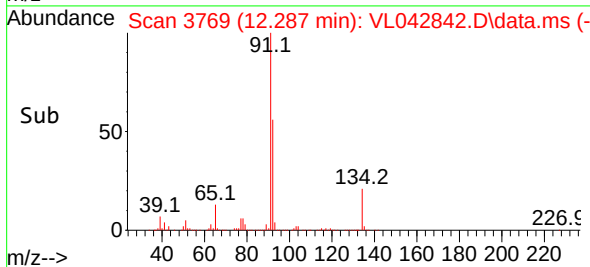
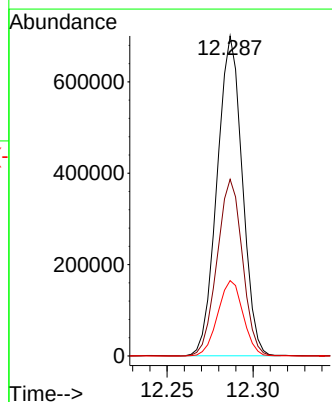
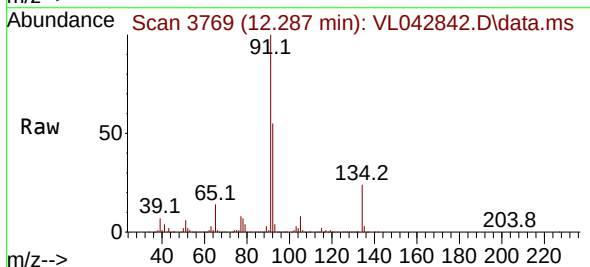
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICCC010

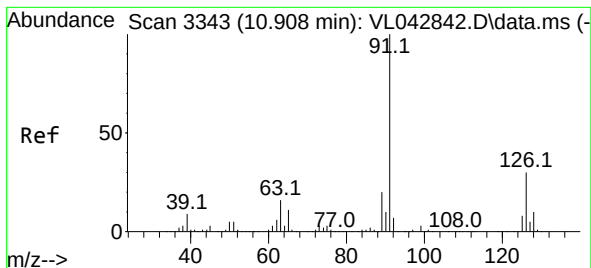
Tgt Ion:119 Resp: 705700  
 Ion Ratio Lower Upper  
 119 100  
 134 25.7 20.6 30.8  
 91 28.3 22.6 34.0



#70  
 n-Butylbenzene  
 Concen: 8.995 ppbv  
 RT: 12.287 min Scan# 3769  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

Tgt Ion: 91 Resp: 713713  
 Ion Ratio Lower Upper  
 91 100  
 92 55.7 44.6 66.8  
 134 23.7 19.0 28.4

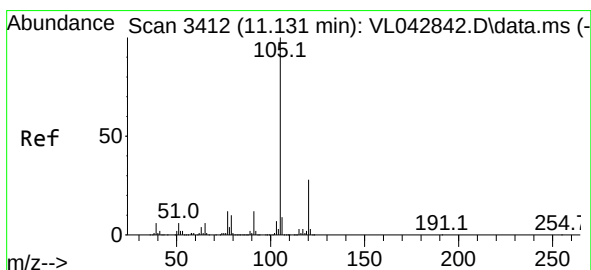
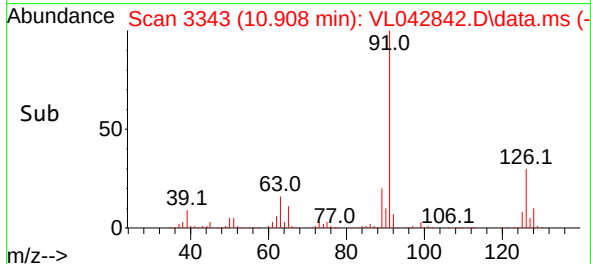
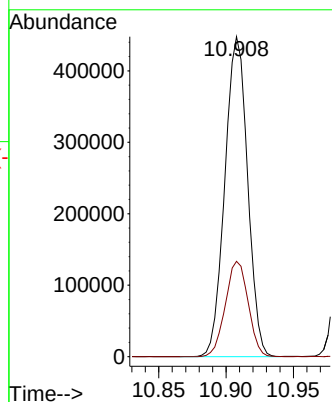
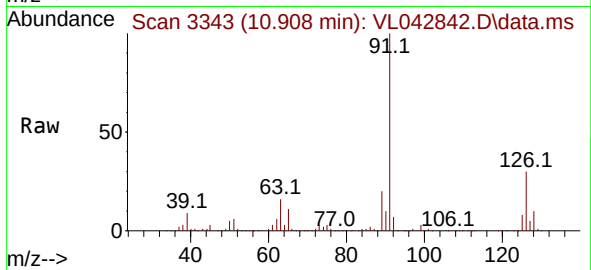




#71  
2-Chlorotoluene  
Concen: 8.981 ppbv  
RT: 10.908 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

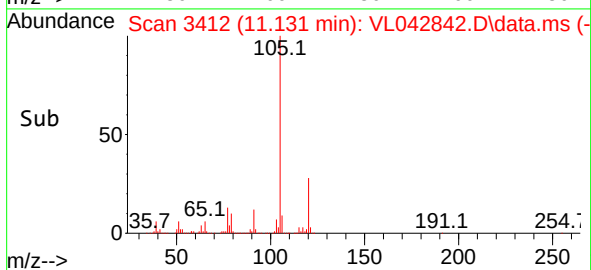
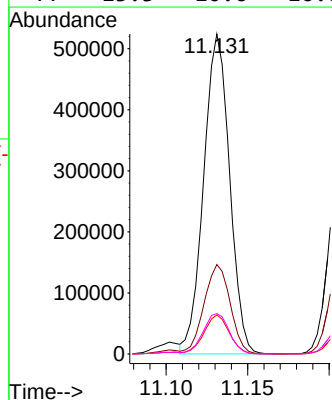
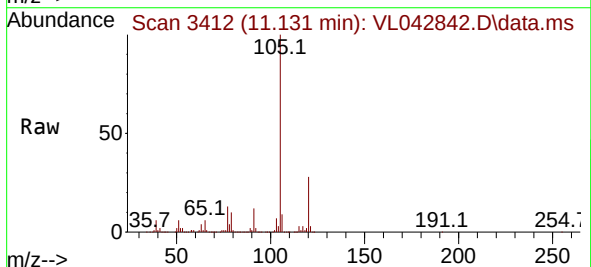
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

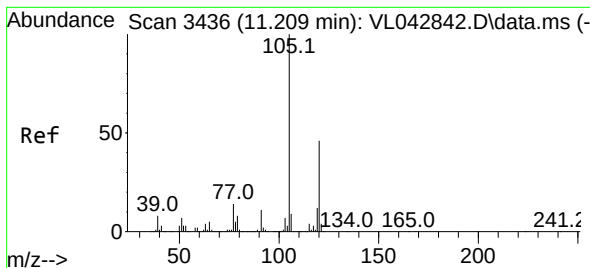
Tgt Ion: 91 Resp: 525235  
Ion Ratio Lower Upper  
91 100  
126 29.9 12.0 47.8



#72  
4-Ethyltoluene  
Concen: 9.267 ppbv  
RT: 11.131 min Scan# 3412  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion: 105 Resp: 578931  
Ion Ratio Lower Upper  
105 100  
120 29.3 23.4 35.2  
91 12.2 9.8 14.6  
77 13.3 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 9.012 ppbv

RT: 11.209 min Scan# 3436

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Instrument :

MSVOA\_1

ClientSampleId :

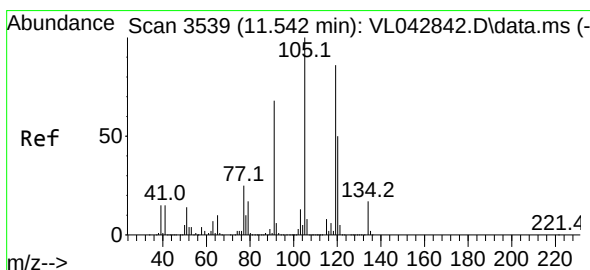
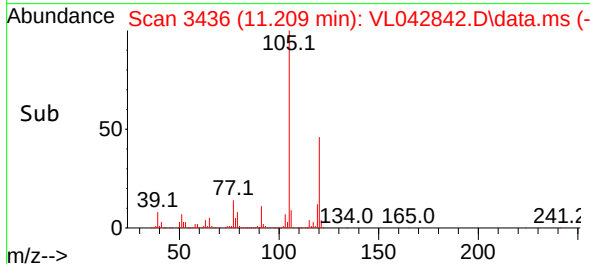
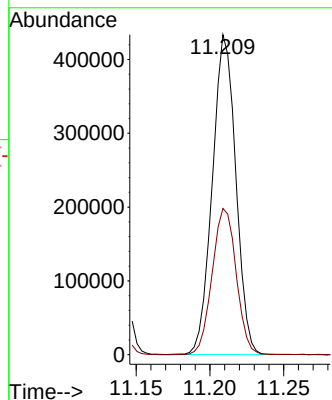
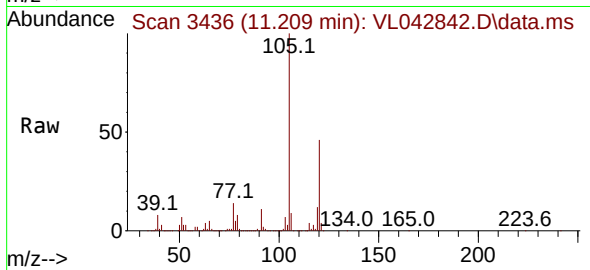
VSTDICCC010

Tgt Ion:105 Resp: 478784

Ion Ratio Lower Upper

105 100

120 45.7 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 8.853 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042842.D

Acq: 13 Aug 2025 08:30

Tgt Ion:105 Resp: 516253

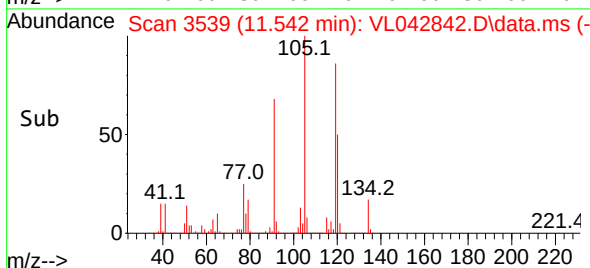
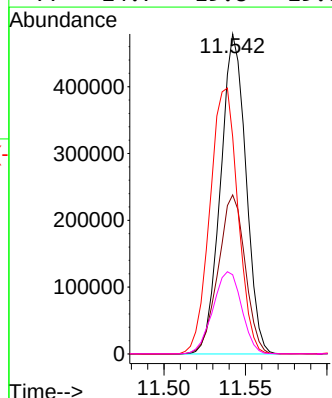
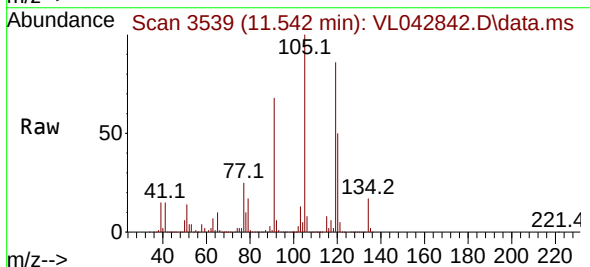
Ion Ratio Lower Upper

105 100

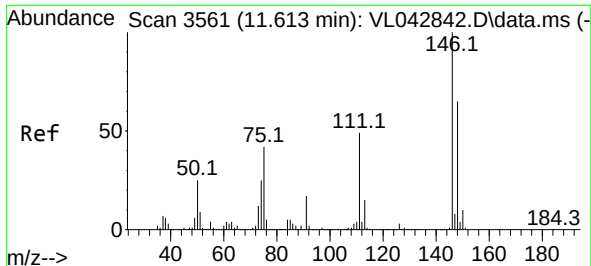
120 49.7 39.8 59.6

91 67.8 54.2 81.4

77 24.7 19.8 29.6



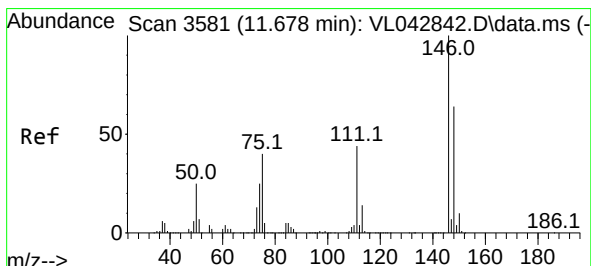
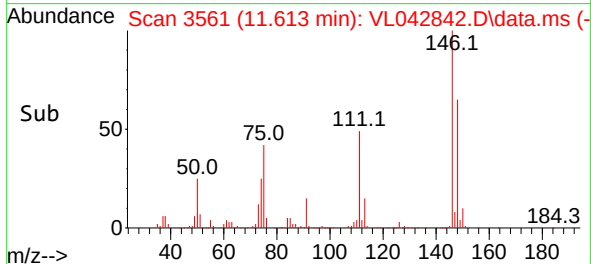
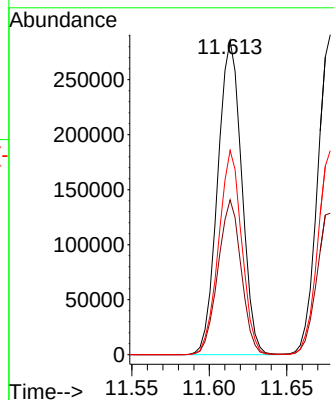
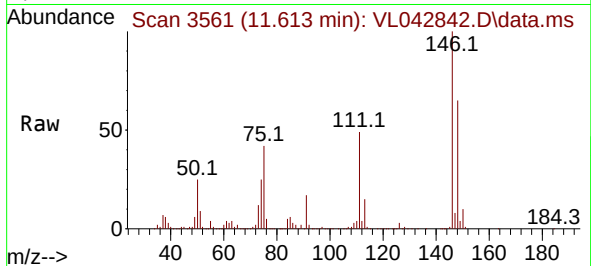




#75  
1,3-Dichlorobenzene  
Concen: 9.280 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

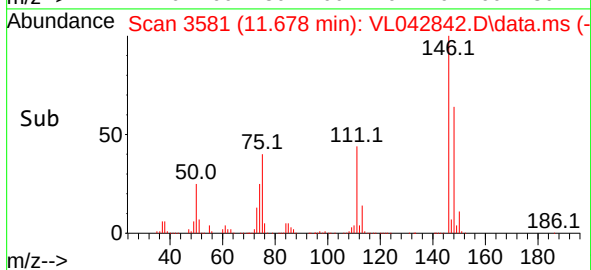
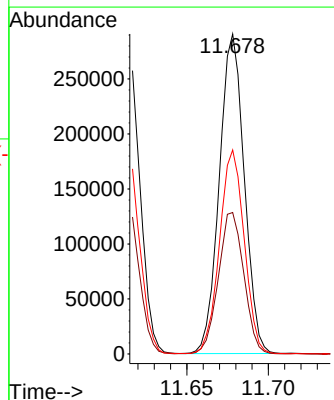
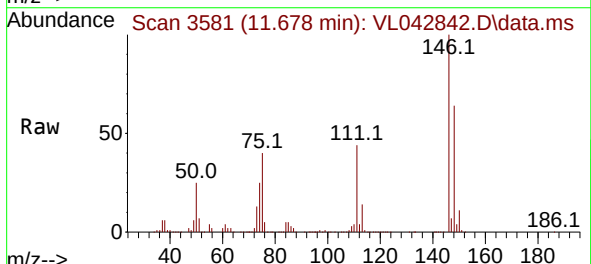
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

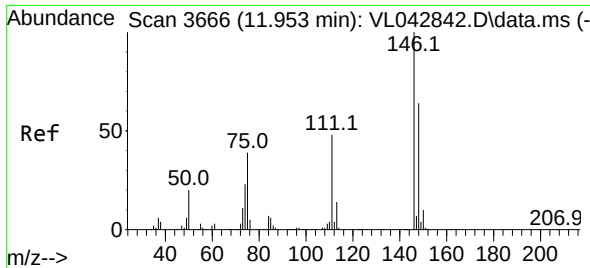
Tgt Ion:146 Resp: 307640  
Ion Ratio Lower Upper  
146 100  
111 47.8 23.9 71.7  
148 62.7 31.4 94.0



#76  
1,4-Dichlorobenzene  
Concen: 9.203 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

Tgt Ion:146 Resp: 308542  
Ion Ratio Lower Upper  
146 100  
111 45.4 22.7 68.1  
148 63.5 31.8 95.3

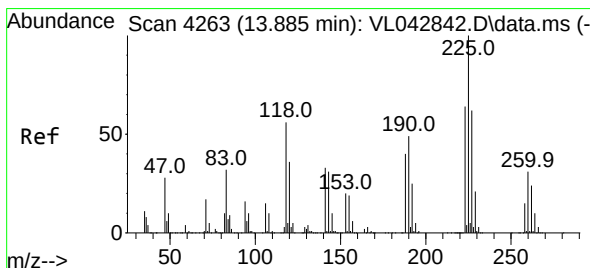
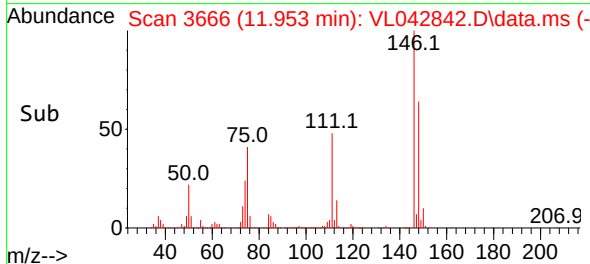
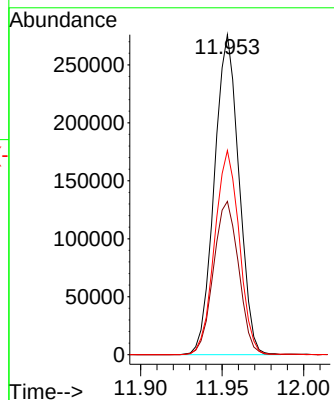
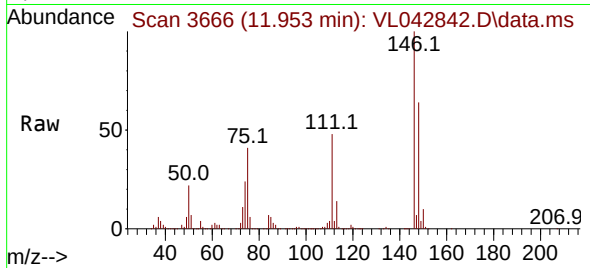




#77  
1,2-Dichlorobenzene  
Concen: 8.907 ppbv  
RT: 11.953 min Scan# 3666  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

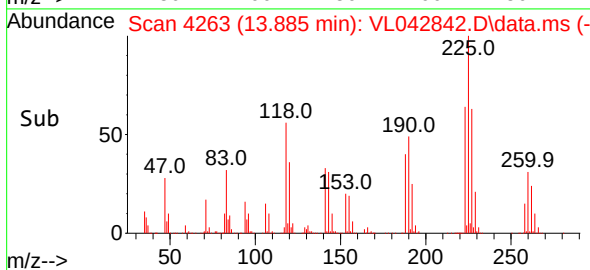
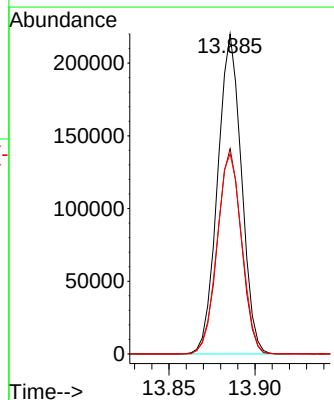
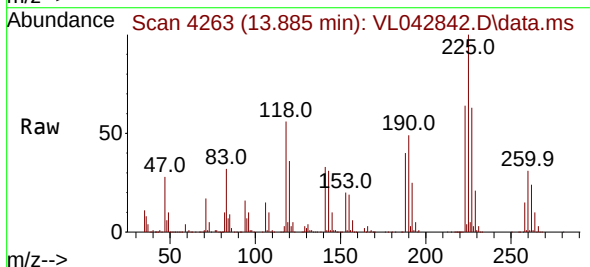
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICCC010

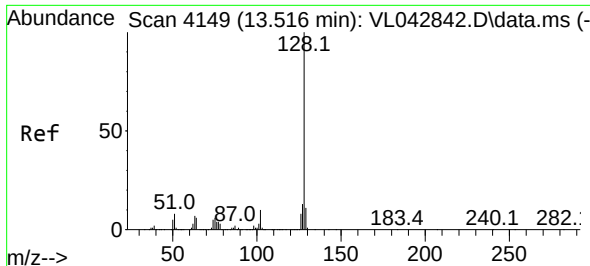
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 146   | Resp: | 289119 |
| Ion Ratio | Lower | Upper |        |
| 146       | 100   |       |        |
| 111       | 49.3  | 24.6  | 74.0   |
| 148       | 64.0  | 32.0  | 96.0   |



#78  
Hexachloro-1,3-Butadiene  
Concen: 7.968 ppbv  
RT: 13.885 min Scan# 4263  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 225   | Resp: | 211996 |
| Ion Ratio | Lower | Upper |        |
| 225       | 100   |       |        |
| 223       | 64.3  | 51.4  | 77.2   |
| 227       | 64.9  | 51.9  | 77.9   |

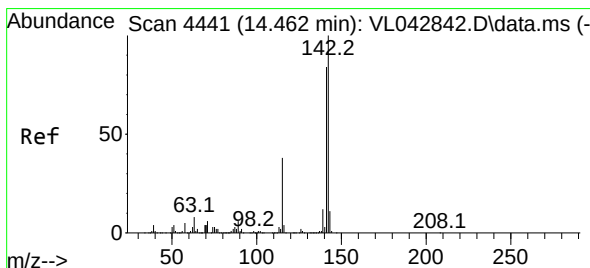
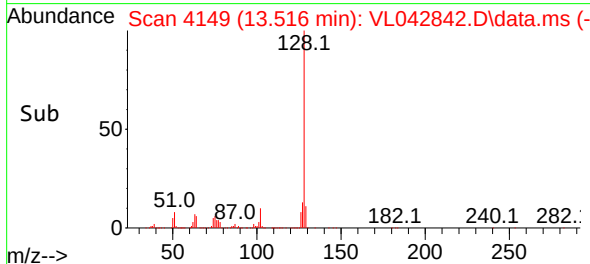
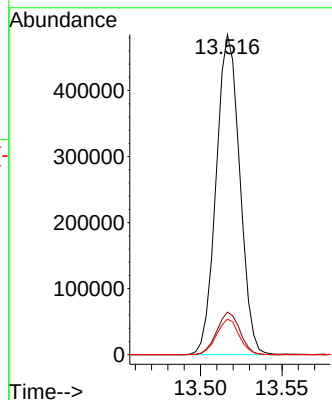
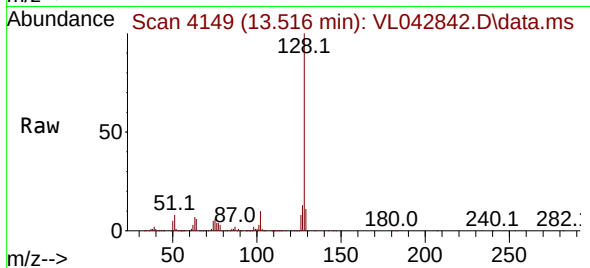




#79  
Naphthalene  
Concen: 9.335 ppbv  
RT: 13.516 min Scan# 4149  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

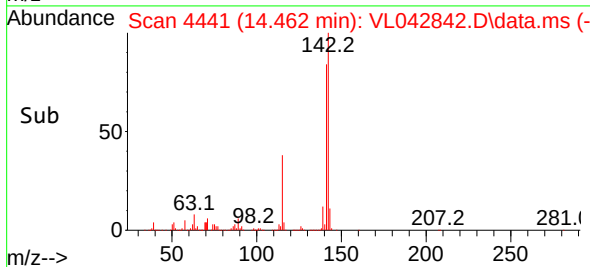
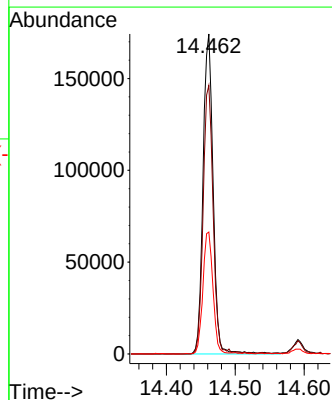
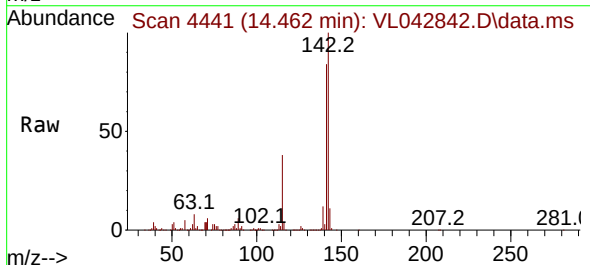
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICCC010

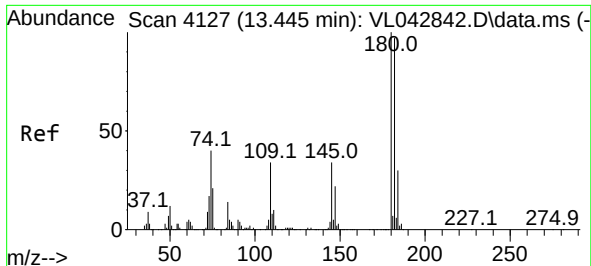
Tgt Ion:128 Resp: 487174  
Ion Ratio Lower Upper  
128 100  
127 13.3 10.6 16.0  
129 11.1 8.9 13.3



#80  
Naphthalene,2-methyl-  
Concen: 9.000 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.000 min  
Lab File: VL042842.D  
Acq: 13 Aug 2025 08:30

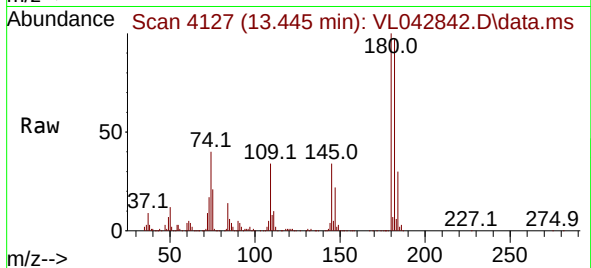
Tgt Ion:142 Resp: 176880  
Ion Ratio Lower Upper  
142 100  
141 83.8 67.0 100.6  
115 38.6 30.9 46.3



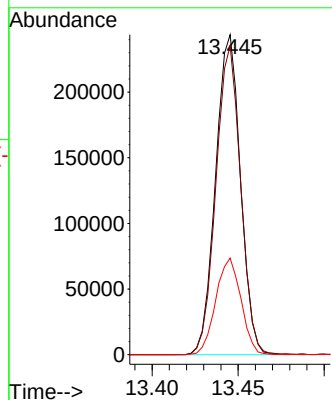
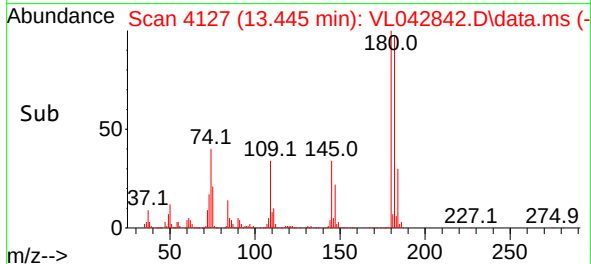


#81  
 1,2,4-Trichlorobenzene  
 Concen: 9.220 ppbv  
 RT: 13.445 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042842.D  
 Acq: 13 Aug 2025 08:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICCC010



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 180   | Resp: | 244998 |
| Ion      | Ratio | Lower | Upper  |
| 180      | 100   |       |        |
| 182      | 96.1  | 76.9  | 115.3  |
| 184      | 30.6  | 24.5  | 36.7   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042843.D  
 Acq On : 13 Aug 2025 09:06  
 Operator : SY/MD  
 Sample : VSTDIC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

Quant Time: Aug 14 01:46:30 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.794 | 49   | 130555   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 408144   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.891 | 117  | 363830   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 270774 9.923 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 99.200%

#### Target Compounds

|                               |       |     |        |       | Qvalue |     |
|-------------------------------|-------|-----|--------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 39443  | 2.061 | ppbv   | 99  |
| 3) Chlorodifluoromethane      | 1.480 | 51  | 44759  | 2.114 | ppbv   | 96  |
| 4) Chloromethane              | 1.535 | 50  | 15826  | 2.050 | ppbv   | 99  |
| 5) Vinyl Chloride             | 1.583 | 62  | 14358  | 1.888 | ppbv   | 97  |
| 6) Bromomethane               | 1.670 | 94  | 6248   | 2.055 | ppbv   | 97  |
| 7) Chloroethane               | 1.706 | 64  | 5717   | 1.925 | ppbv   | 94  |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 32496  | 2.075 | ppbv   | 98  |
| 9) Propene                    | 1.486 | 41  | 18678  | 2.045 | ppbv   | 89  |
| 10) Heptane                   | 4.991 | 43  | 50062  | 2.050 | ppbv   | 97  |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 38308  | 2.029 | ppbv   | 99  |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 31052  | 2.064 | ppbv   | 99  |
| 13) Ethanol                   | 1.725 | 45  | 2277   | 2.516 | ppbv   | 93  |
| 14) Bromoethene               | 1.784 | 108 | 11376  | 2.089 | ppbv   | 96  |
| 15) Acetone                   | 1.839 | 43  | 38531  | 2.231 | ppbv   | 96  |
| 16) 1,3-Butadiene             | 1.612 | 39  | 15122  | 1.932 | ppbv   | 98  |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 40652  | 1.985 | ppbv   | 97  |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 13883  | 2.099 | ppbv   | 95  |
| 19) Isopropyl Alcohol         | 1.891 | 45  | 20866  | 2.023 | ppbv # | 39  |
| 20) Methylene Chloride        | 2.065 | 84  | 14204  | 1.963 | ppbv # | 92  |
| 21) Allyl Chloride            | 2.101 | 41  | 24662  | 2.021 | ppbv   | 96  |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 15773  | 2.132 | ppbv   | 96  |
| 23) Vinyl Acetate             | 2.467 | 43  | 48269  | 2.125 | ppbv # | 98  |
| 24) 1,1-Dichloroethane        | 2.415 | 63  | 30931  | 2.024 | ppbv   | 98  |
| 25) Ethyl Acetate             | 2.842 | 43  | 86804  | 2.077 | ppbv   | 98  |
| 26) Hexane                    | 2.832 | 57  | 39735  | 2.060 | ppbv   | 94  |
| 27) Carbon Disulfide          | 2.156 | 76  | 39466  | 2.102 | ppbv # | 15  |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 21341  | 2.169 | ppbv   | 96  |
| 29) Chloroform                | 2.855 | 83  | 56553  | 2.053 | ppbv   | 95  |
| 30) Cyclohexane               | 3.868 | 84  | 34992  | 2.069 | ppbv   | 98  |
| 31) cis-1,2-Dichloroethene    | 2.726 | 61  | 39783  | 2.062 | ppbv   | 95  |
| 32) 1,1,1-Trichloroethane     | 3.376 | 97  | 57837  | 1.983 | ppbv   | 100 |
| 34) 2-Butanone                | 2.564 | 43  | 57172  | 2.075 | ppbv   | 98  |
| 35) Carbon Tetrachloride      | 3.771 | 117 | 56459  | 2.007 | ppbv   | 97  |
| 36) Benzene                   | 3.664 | 78  | 80781  | 2.067 | ppbv   | 98  |
| 37) 1,2-Dichloroethane        | 3.227 | 62  | 41034  | 2.010 | ppbv   | 97  |
| 38) Trichloroethene           | 4.561 | 130 | 36990  | 2.072 | ppbv # | 86  |
| 39) 1,2-Dichloropropane       | 4.328 | 63  | 29059  | 2.036 | ppbv   | 98  |
| 40) 1,4-Dioxane               | 4.606 | 88  | 11947  | 1.788 | ppbv # | 74  |
| 41) Tetrahydrofuran           | 3.062 | 42  | 31994  | 2.082 | ppbv   | 97  |
| 42) Bromodichloromethane      | 4.503 | 83  | 63436  | 2.085 | ppbv   | 97  |
| 43) Methyl Methacrylate       | 4.888 | 69  | 16511  | 1.030 | ppbv # | 1   |
| 44) 2,2,4-Trimethylpentane    | 4.655 | 57  | 136794 | 2.085 | ppbv   | 98  |
| 45) t-1,3-Dichloropropene     | 6.428 | 75  | 37248  | 2.048 | ppbv   | 90  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042843.D  
 Acq On : 13 Aug 2025 09:06  
 Operator : SY/MD  
 Sample : VSTDICC002  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002

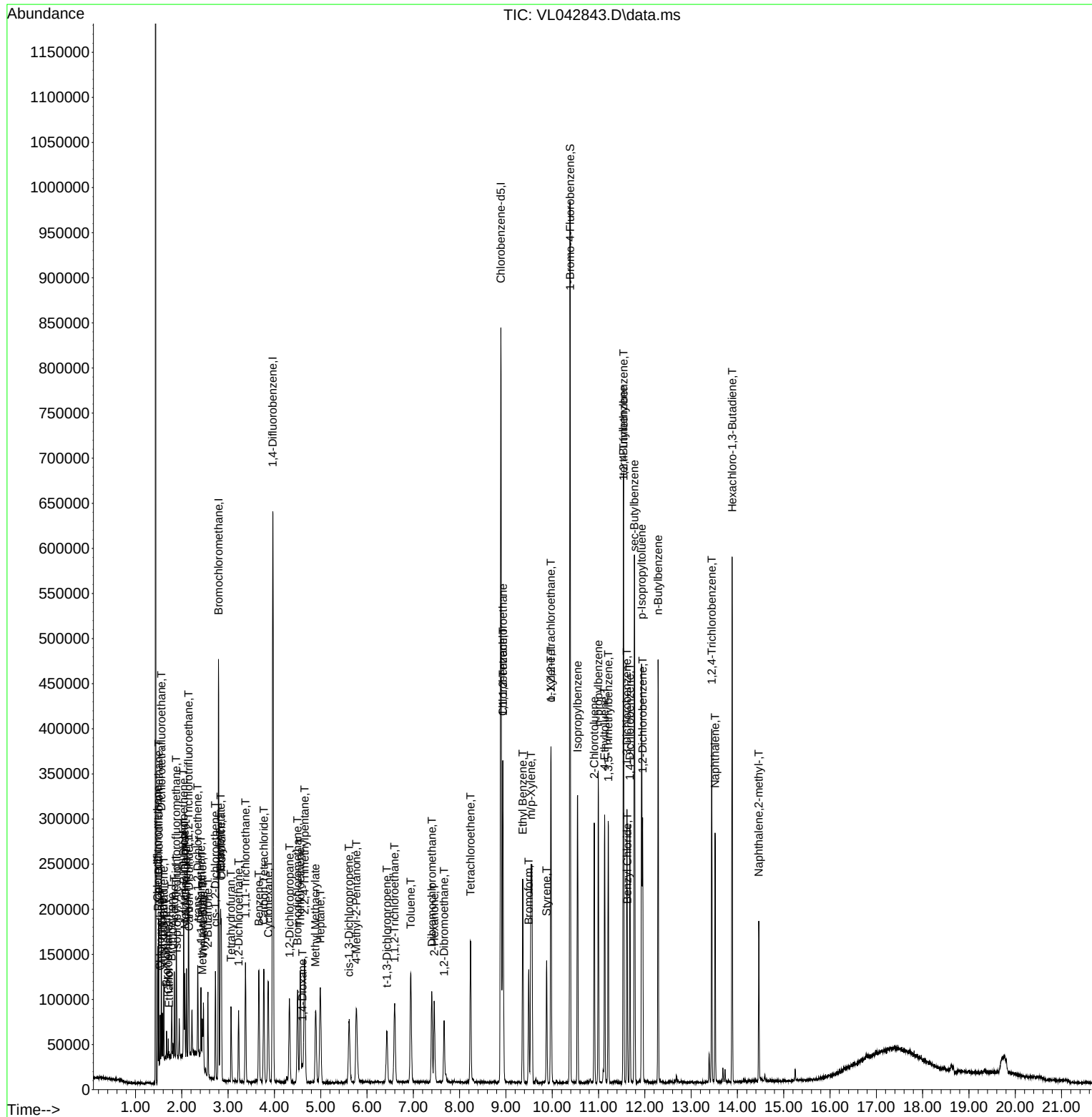
Quant Time: Aug 14 01:46:30 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

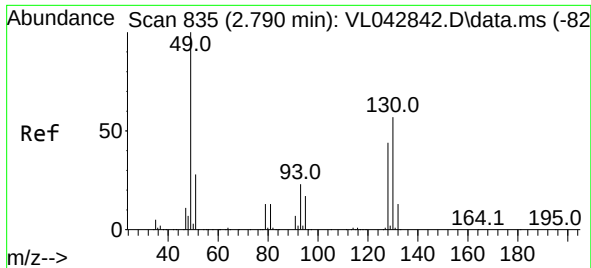
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 26940    | 1.180 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.593  | 97   | 22158    | 1.466 | ppbv   | 91       |
| 48) Dibromochloromethane      | 7.399  | 129  | 51620    | 2.109 | ppbv   | 100      |
| 49) Bromoform                 | 9.493  | 173  | 43662    | 2.163 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.768  | 43   | 77225    | 2.066 | ppbv   | 99       |
| 51) 2-Hexanone                | 7.451  | 43   | 61210    | 2.088 | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.234  | 164  | 28166    | 1.990 | ppbv   | 92       |
| 53) Toluene                   | 6.946  | 91   | 94690    | 2.036 | ppbv   | 98       |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 45071    | 2.039 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.933  | 131  | 40090    | 2.131 | ppbv   | 97       |
| 57) Chlorobenzene             | 8.933  | 112  | 72296    | 2.090 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.364  | 91   | 133719   | 2.083 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.542  | 91   | 100699   | 1.998 | ppbv # | 100      |
| 60) o-Xylene                  | 9.972  | 91   | 105125   | 2.077 | ppbv   | 100      |
| 61) Styrene                   | 9.879  | 104  | 48027    | 2.025 | ppbv   | 96       |
| 62) Isopropylbenzene          | 10.545 | 105  | 155223   | 2.098 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 56139    | 2.031 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.995 | 120  | 39922    | 2.115 | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 139019   | 2.132 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.623 | 91   | 17893    | 2.161 | ppbv   | 97       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 196899   | 2.151 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 169429   | 2.156 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.287 | 91   | 169768   | 2.178 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 119382   | 2.078 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 129786   | 2.115 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 110043   | 2.109 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 123554   | 2.157 | ppbv   | 97       |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 70330    | 2.160 | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 71160    | 2.161 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 68944    | 2.162 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 58509    | 2.239 | ppbv   | 100      |
| 79) Naphthalene               | 13.517 | 128  | 127025   | 2.478 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 51541    | 2.670 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 62216    | 2.384 | ppbv   | 98       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC002

Quant Time: Aug 14 01:46:30 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Thu Aug 14 01:44:36 2025  
Response via : Initial Calibration

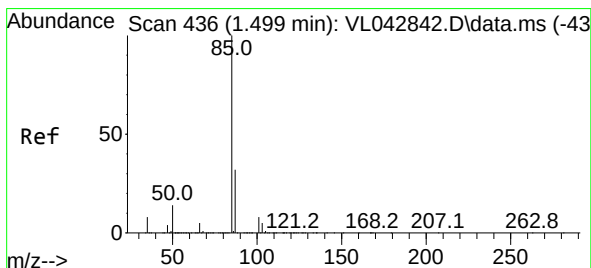
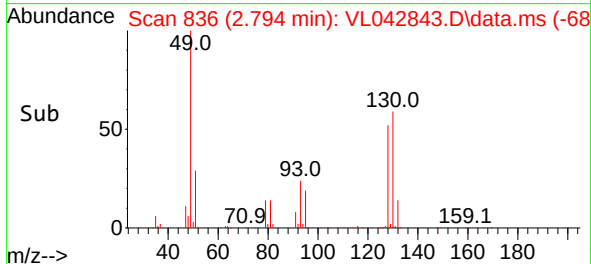
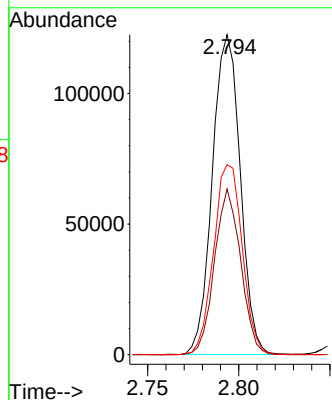
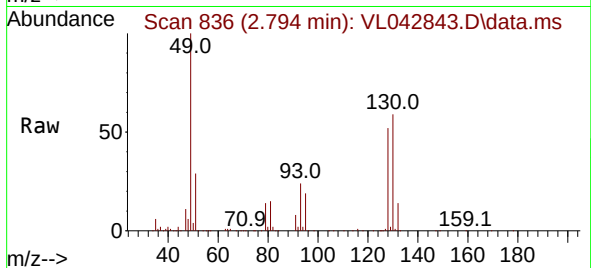




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.794 min Scan# 81  
Delta R.T. 0.004 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

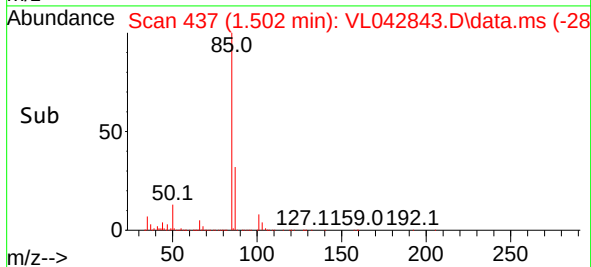
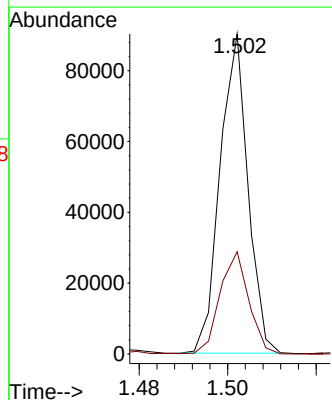
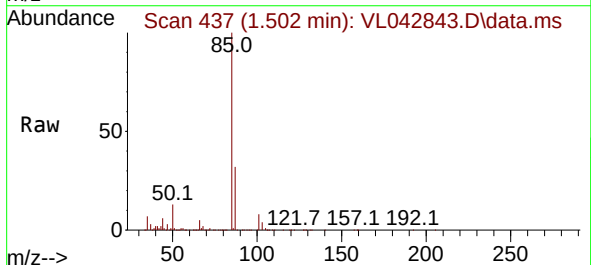
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

Tgt Ion: 49 Resp: 130555  
Ion Ratio Lower Upper  
49 100  
128 48.7 23.7 71.1  
130 61.3 30.6 91.6

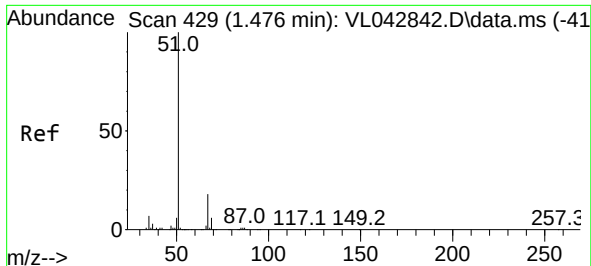


#2  
Dichlorodifluoromethane  
Concen: 2.061 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 85 Resp: 39443  
Ion Ratio Lower Upper  
85 100  
87 32.0 25.3 37.9



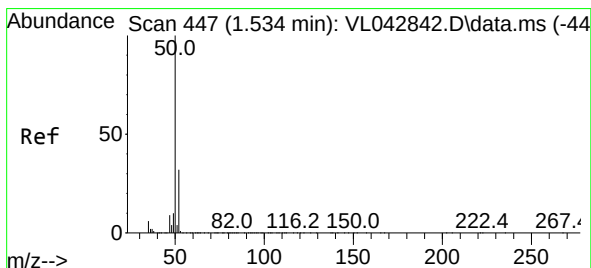
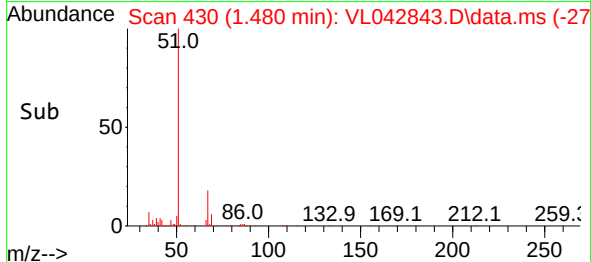
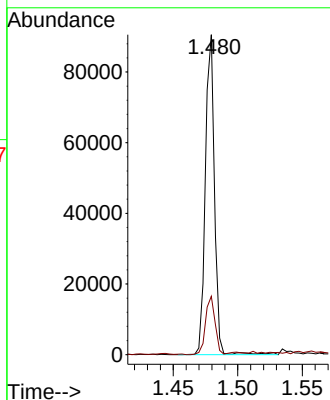
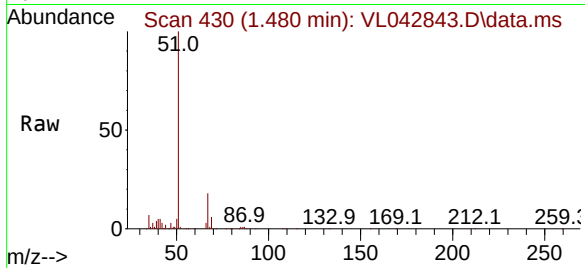




#3  
Chlorodifluoromethane  
Concen: 2.114 ppbv  
RT: 1.480 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

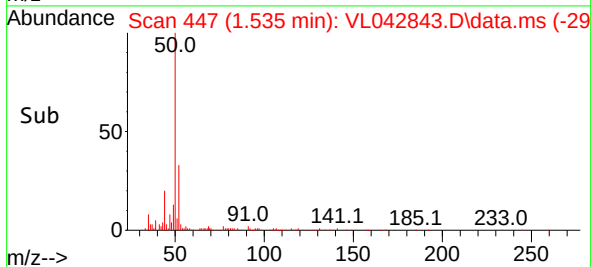
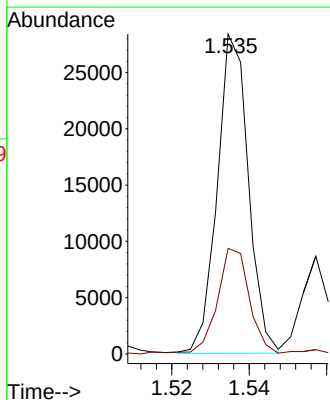
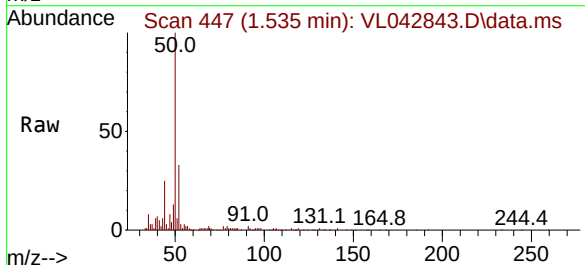
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

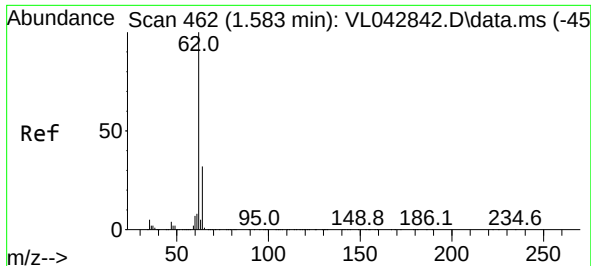
Tgt Ion: 51 Resp: 44759  
Ion Ratio Lower Upper  
51 100  
67 20.3 14.9 22.3



#4  
Chloromethane  
Concen: 2.050 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 50 Resp: 15826  
Ion Ratio Lower Upper  
50 100  
52 33.0 25.9 38.9

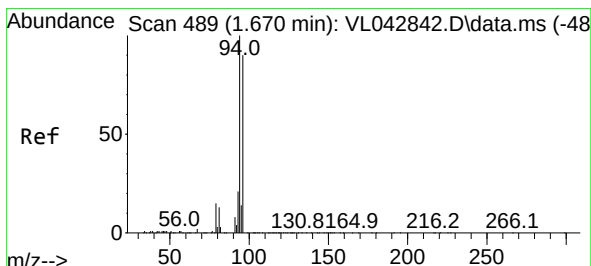
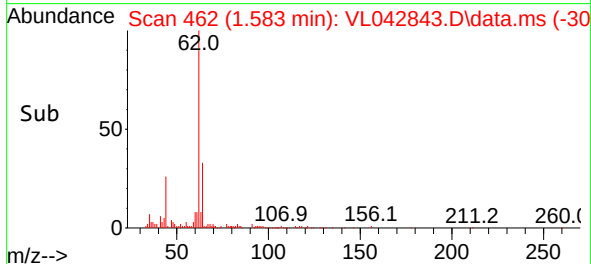
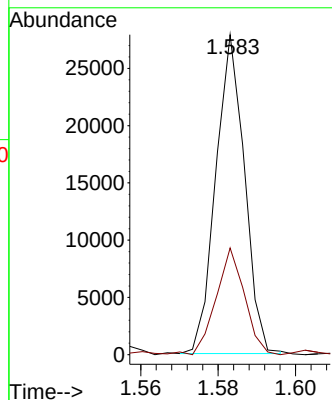
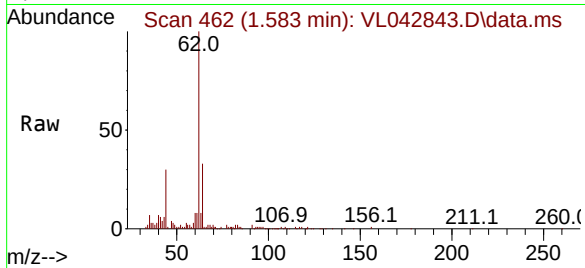




#5  
 Vinyl Chloride  
 Concen: 1.888 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

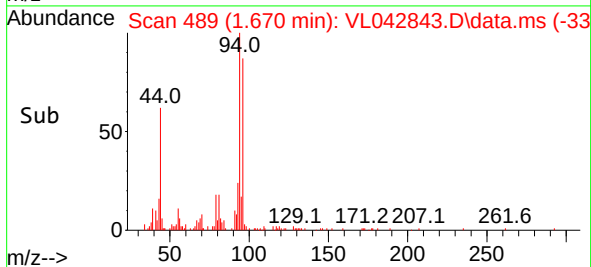
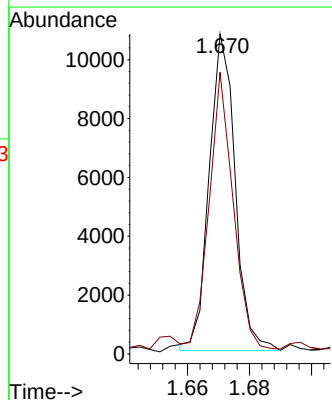
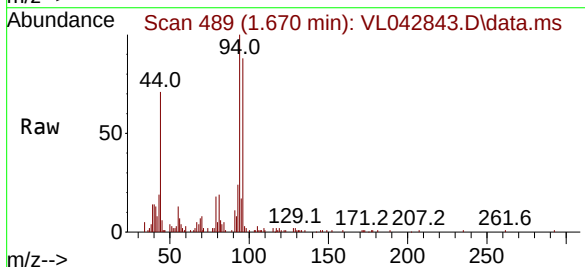
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

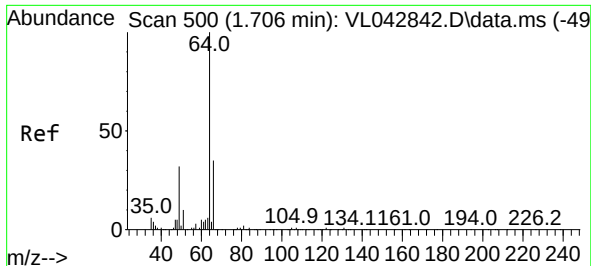
Tgt Ion: 62 Resp: 14358  
 Ion Ratio Lower Upper  
 62 100  
 64 33.5 25.4 38.2



#6  
 Bromomethane  
 Concen: 2.055 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

Tgt Ion: 94 Resp: 6248  
 Ion Ratio Lower Upper  
 94 100  
 96 87.4 72.1 108.1

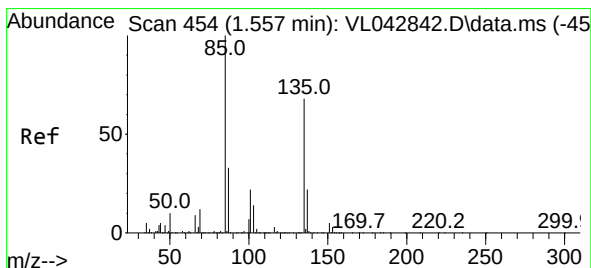
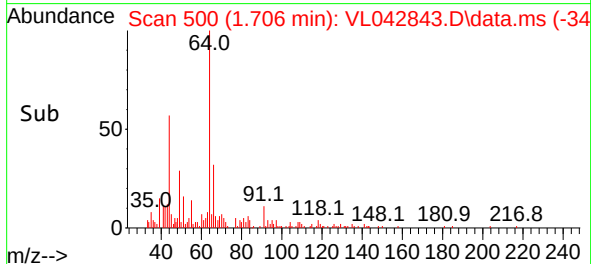
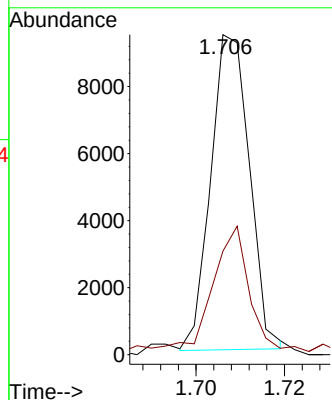
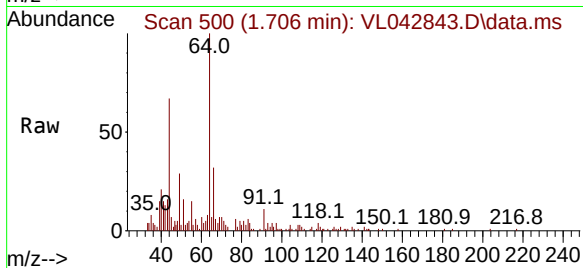




#7  
Chloroethane  
Concen: 1.925 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

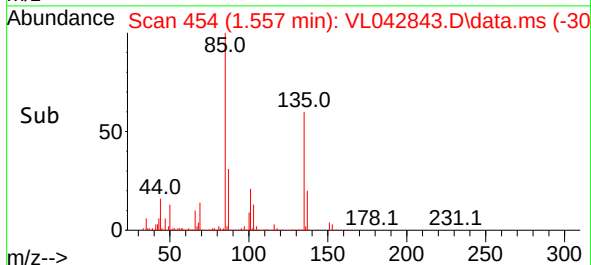
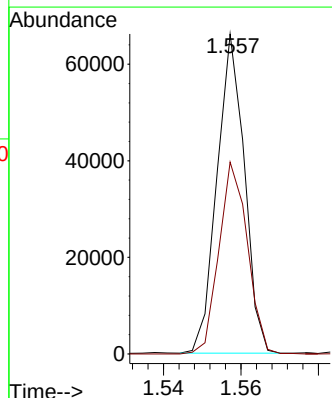
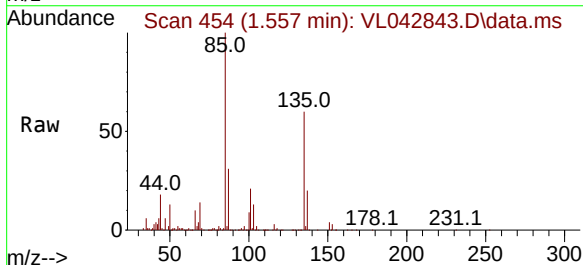
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

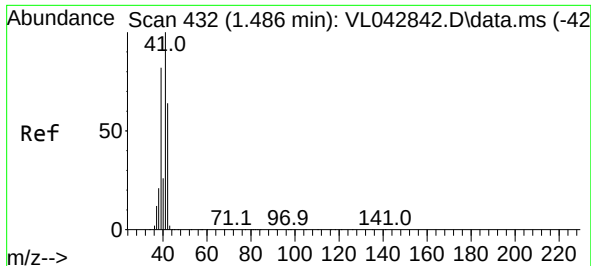
Tgt Ion: 64 Resp: 5717  
Ion Ratio Lower Upper  
64 100  
66 32.3 28.6 42.8



#8  
Dichlorotetrafluoroethane  
Concen: 2.075 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 85 Resp: 32496  
Ion Ratio Lower Upper  
85 100  
135 62.7 51.2 76.8

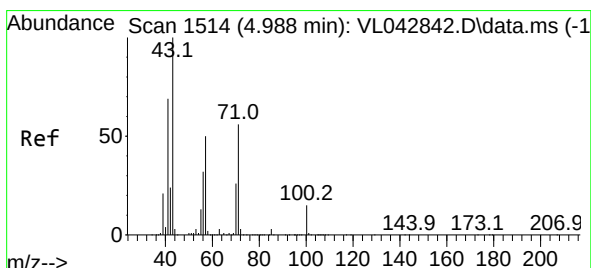
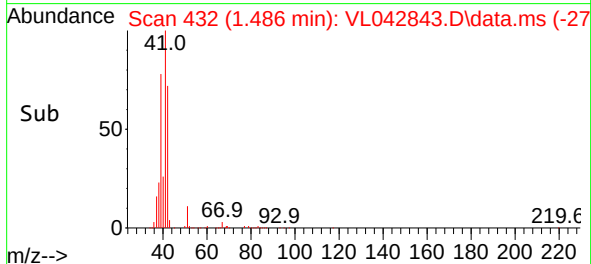
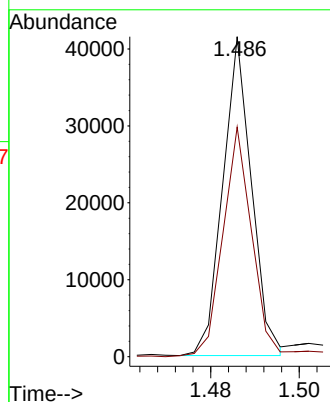
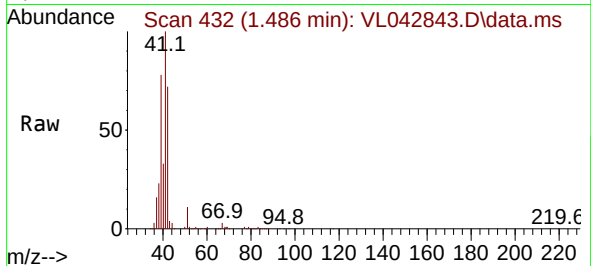




#9  
Propene  
Concen: 2.045 ppbv  
RT: 1.486 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

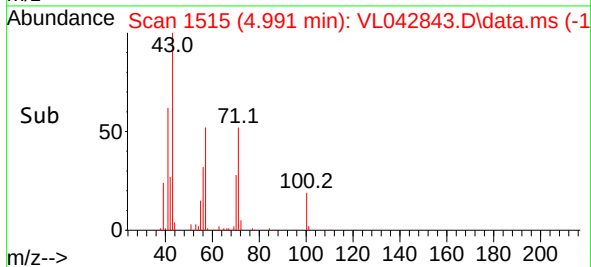
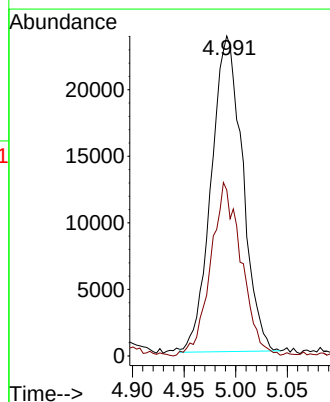
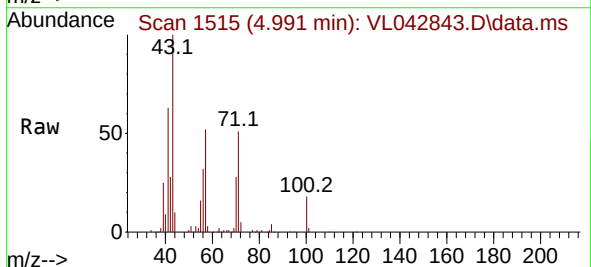
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

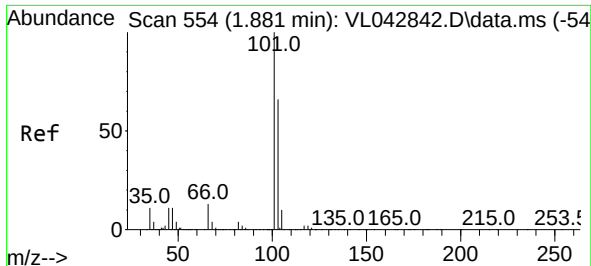
Tgt Ion: 41 Resp: 18678  
Ion Ratio Lower Upper  
41 100  
42 74.8 53.0 79.4



#10  
Heptane  
Concen: 2.050 ppbv  
RT: 4.991 min Scan# 1515  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 50062  
Ion Ratio Lower Upper  
43 100  
57 54.1 41.4 62.0

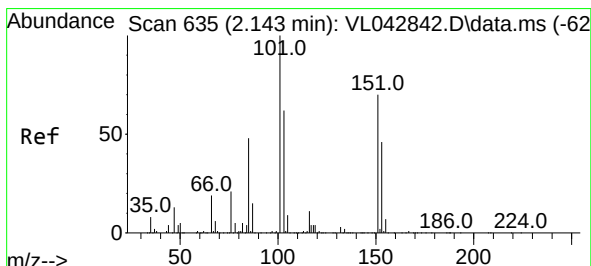
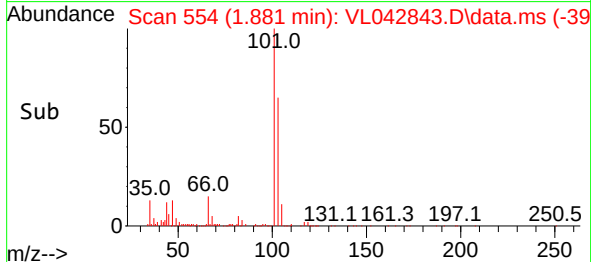
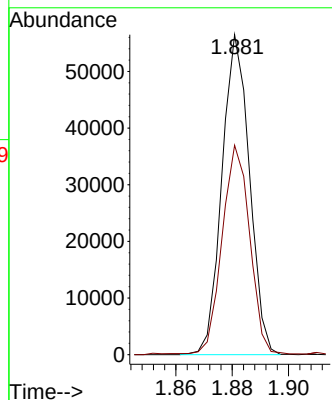
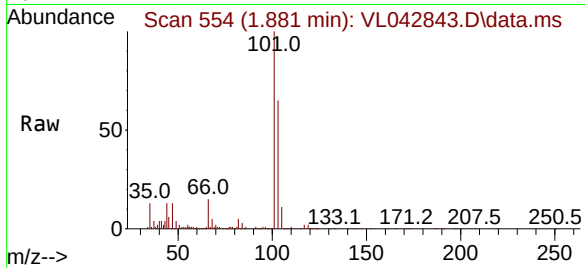




#11  
 Trichlorofluoromethane  
 Concen: 2.029 ppbv  
 RT: 1.881 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

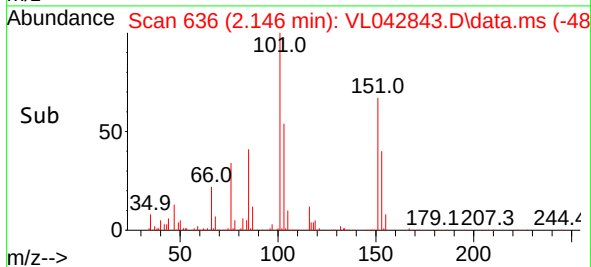
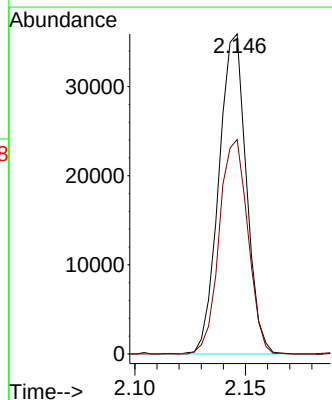
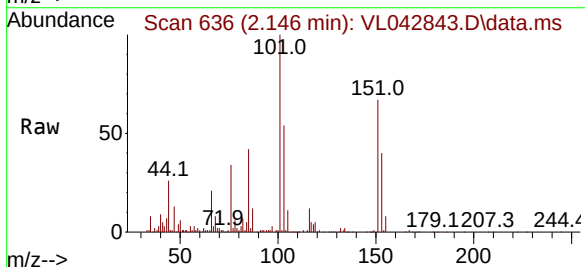
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICC002

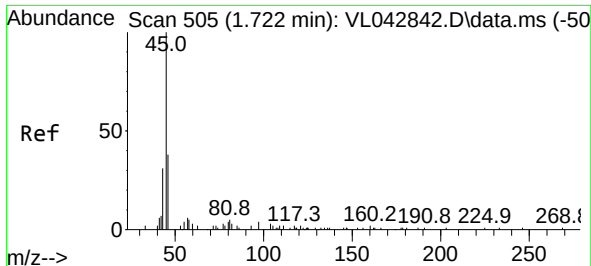
Tgt Ion:101 Resp: 38308  
 Ion Ratio Lower Upper  
 101 100  
 103 65.1 52.5 78.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 2.064 ppbv  
 RT: 2.146 min Scan# 636  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

Tgt Ion:101 Resp: 31052  
 Ion Ratio Lower Upper  
 101 100  
 151 69.7 56.4 84.6

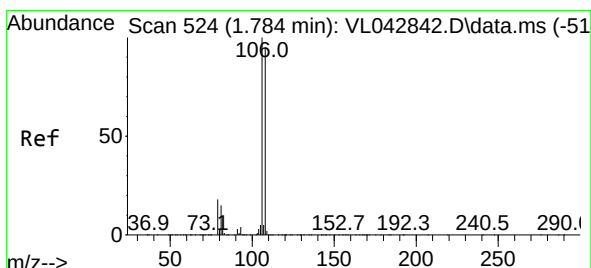
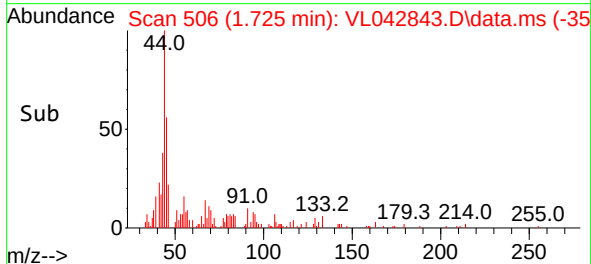
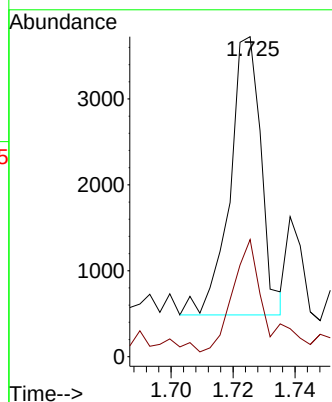
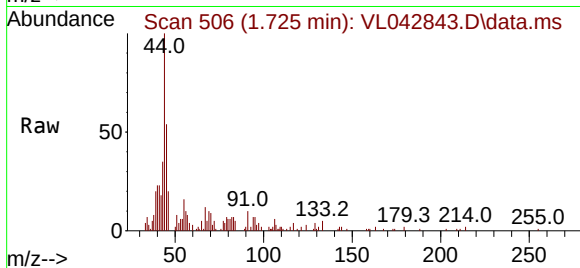




#13  
Ethanol  
Concen: 2.516 ppbv  
RT: 1.725 min Scan# 505  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

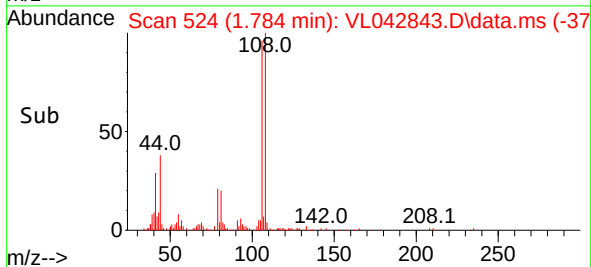
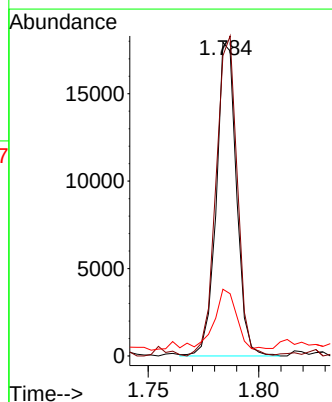
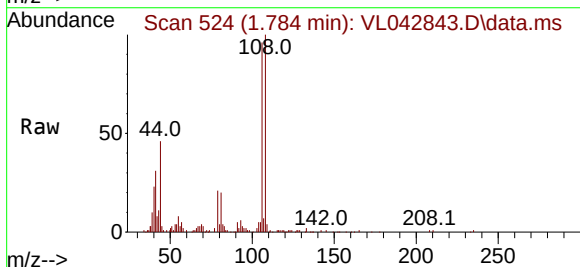
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

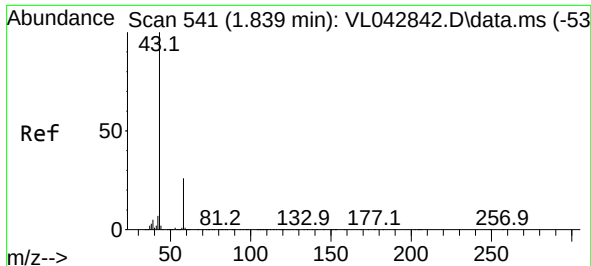
Tgt Ion: 45 Resp: 2277  
Ion Ratio Lower Upper  
45 100  
46 48.3 17.5 69.9



#14  
Bromoethene  
Concen: 2.089 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 108 Resp: 11376  
Ion Ratio Lower Upper  
108 100  
106 110.8 85.1 127.7  
79 22.6 16.3 24.5





#15

Acetone

Concen: 2.231 ppbv

RT: 1.839 min Scan# 541

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

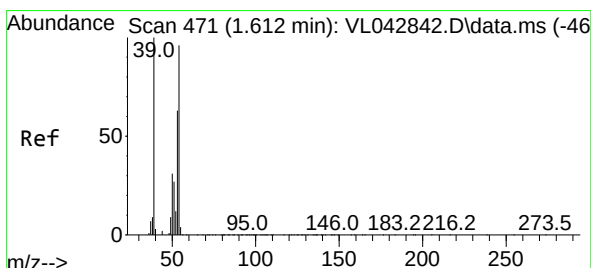
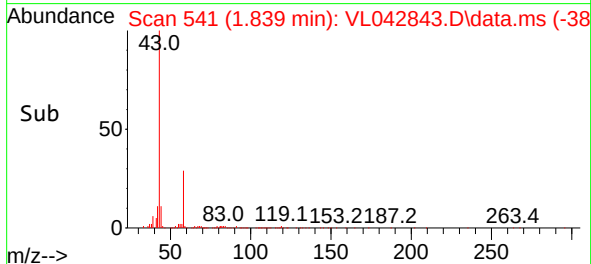
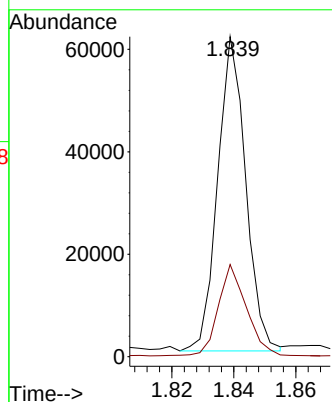
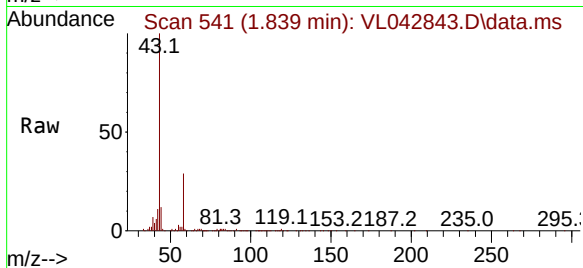
VSTDIC002

Tgt Ion: 43 Resp: 38531

Ion Ratio Lower Upper

43 100

58 30.3 22.4 33.6



#16

1,3-Butadiene

Concen: 1.932 ppbv

RT: 1.612 min Scan# 471

Delta R.T. 0.000 min

Lab File: VL042843.D

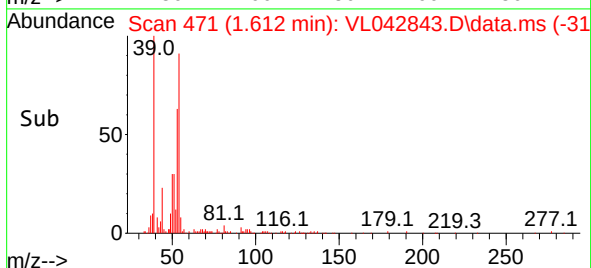
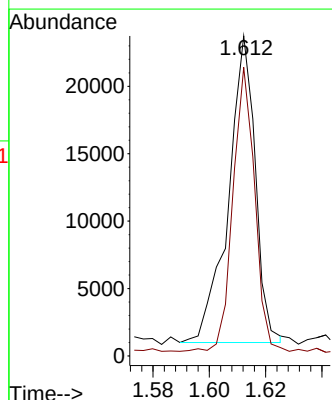
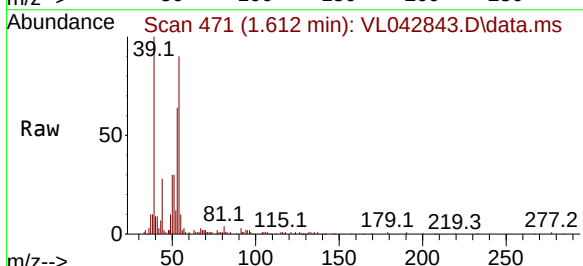
Acq: 13 Aug 2025 09:06

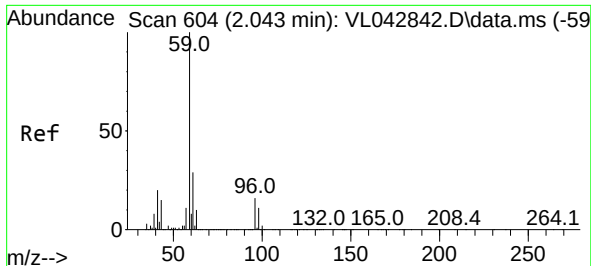
Tgt Ion: 39 Resp: 15122

Ion Ratio Lower Upper

39 100

54 80.8 63.6 95.4





#17

tert-Butyl alcohol

Concen: 1.985 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_1

ClientSampleId :

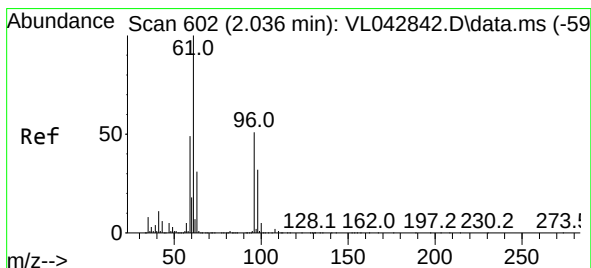
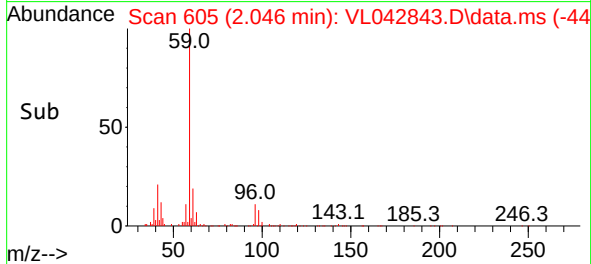
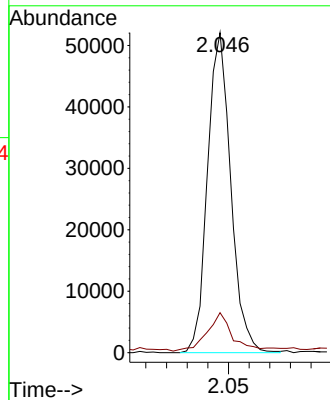
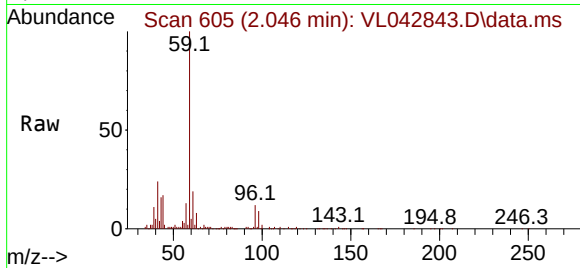
VSTDIC002

Tgt Ion: 59 Resp: 40652

Ion Ratio Lower Upper

59 100

57 12.4 9.0 13.4



#18

1,1-Dichloroethene

Concen: 2.099 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

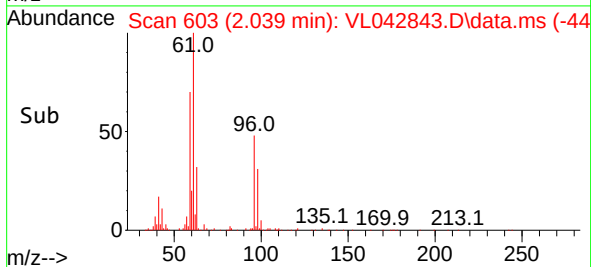
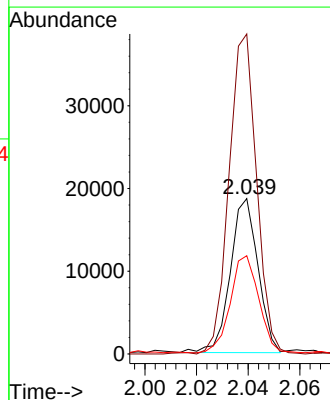
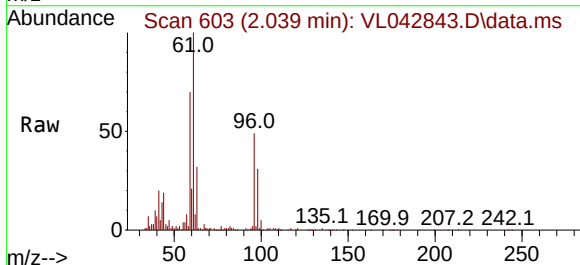
Tgt Ion: 96 Resp: 13883

Ion Ratio Lower Upper

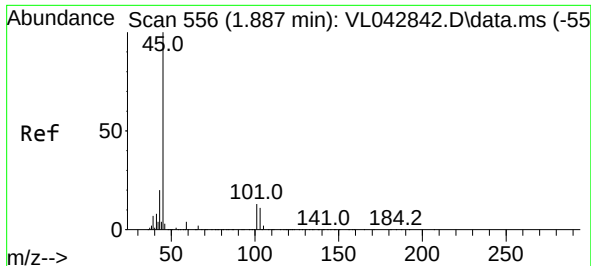
96 100

61 207.1 158.2 237.4

98 62.6 50.6 76.0



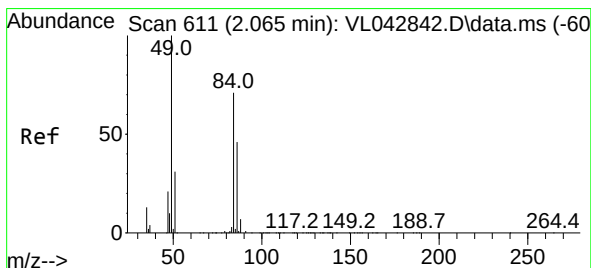
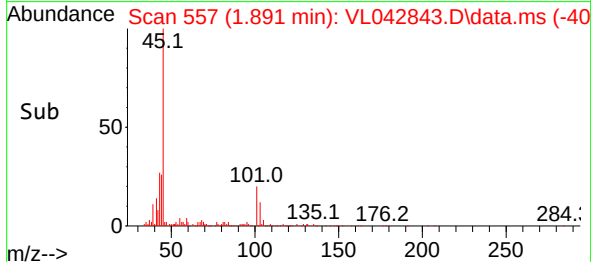
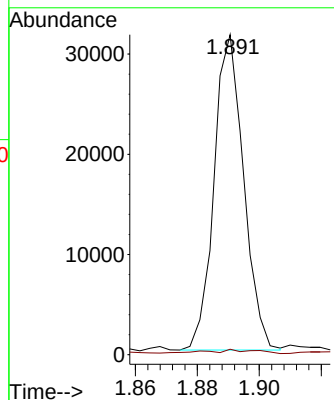
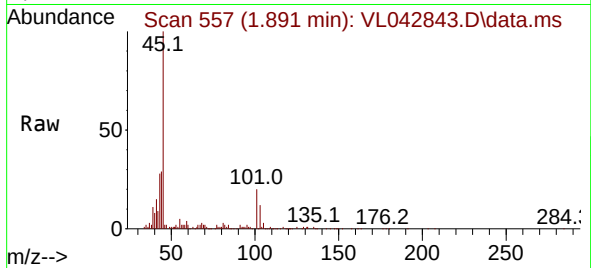




#19  
Isopropyl Alcohol  
Concen: 2.023 ppbv  
RT: 1.891 min Scan# 556  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

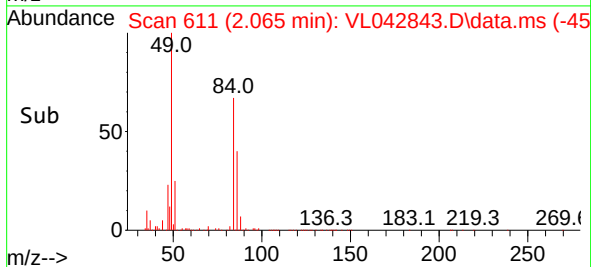
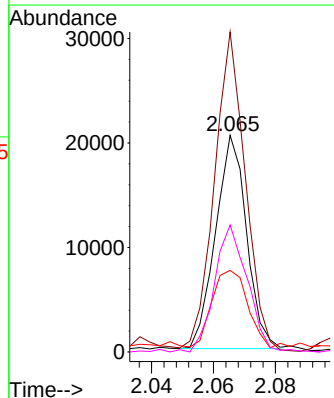
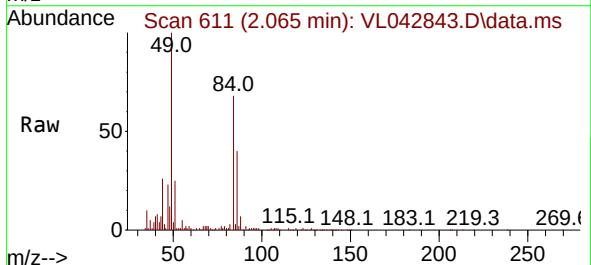
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

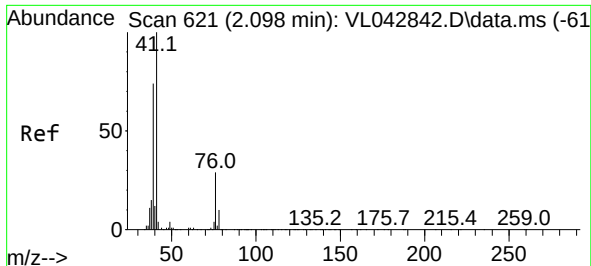
Tgt Ion: 45 Resp: 20866  
Ion Ratio Lower Upper  
45 100  
58 3.1 32.7 49.1#



#20  
Methylene Chloride  
Concen: 1.963 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 84 Resp: 14204  
Ion Ratio Lower Upper  
84 100  
49 148.1 112.3 168.5  
51 35.3 36.0 54.0#  
86 58.9 52.0 78.0





#21

Allyl Chloride

Concen: 2.021 ppbv

RT: 2.101 min Scan# 61

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC002

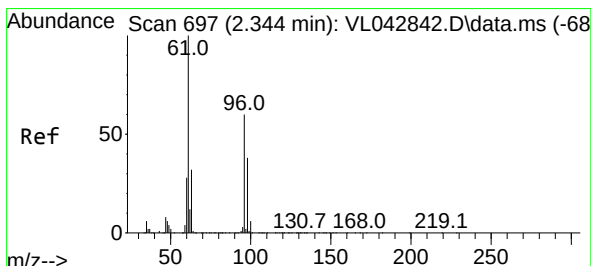
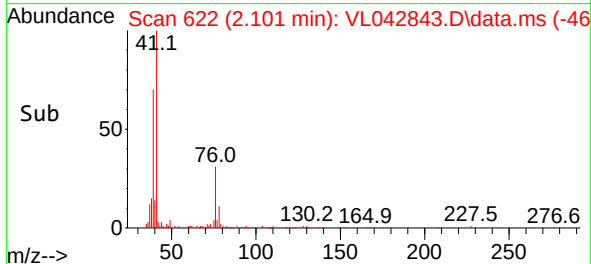
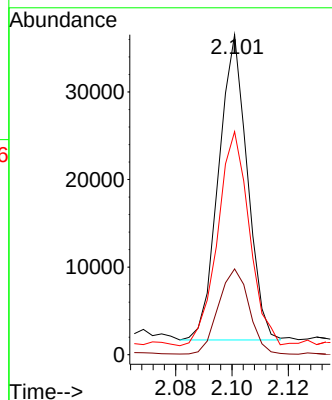
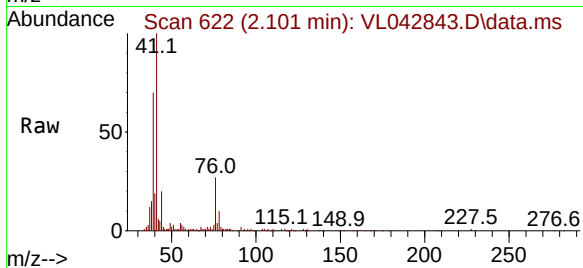
Tgt Ion: 41 Resp: 24662

Ion Ratio Lower Upper

41 100

76 31.2 23.9 35.9

39 76.0 57.8 86.6



#22

trans-1,2-Dichloroethene

Concen: 2.132 ppbv

RT: 2.344 min Scan# 697

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

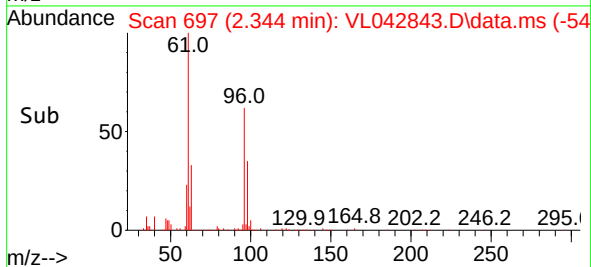
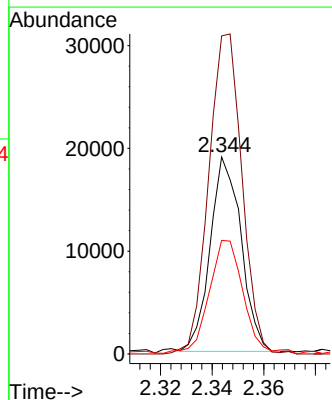
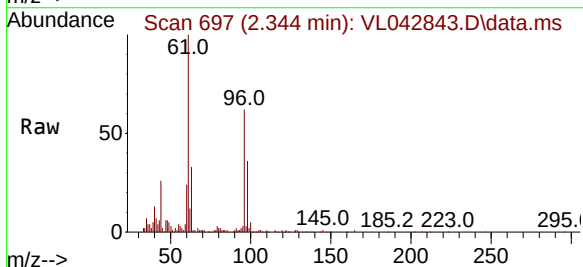
Tgt Ion: 96 Resp: 15773

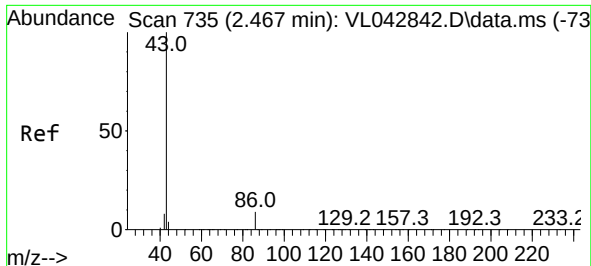
Ion Ratio Lower Upper

96 100

61 162.8 132.6 199.0

98 56.7 50.0 75.0

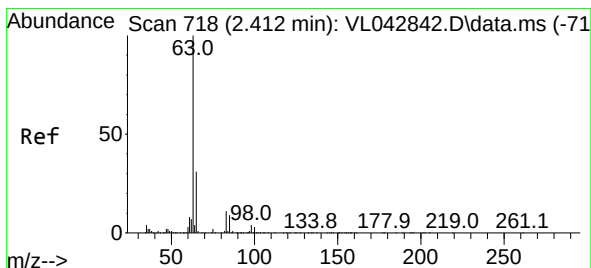
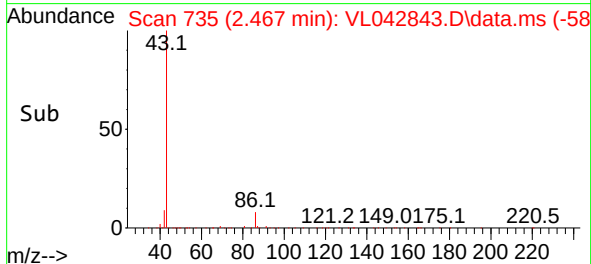
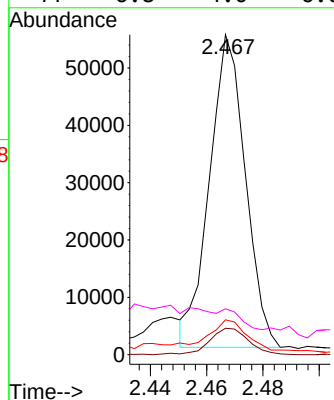
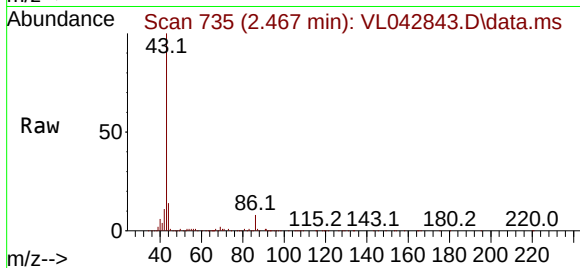




#23  
 Vinyl Acetate  
 Concen: 2.125 ppbv  
 RT: 2.467 min Scan# 719  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

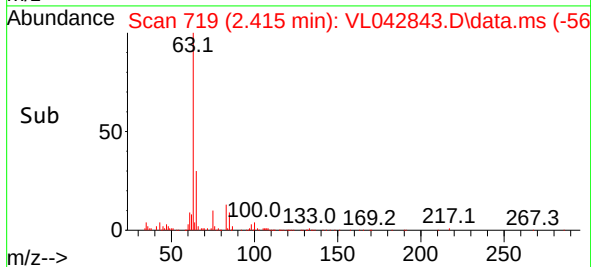
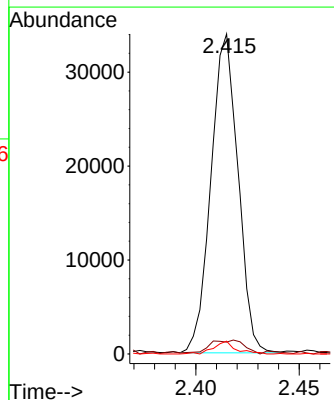
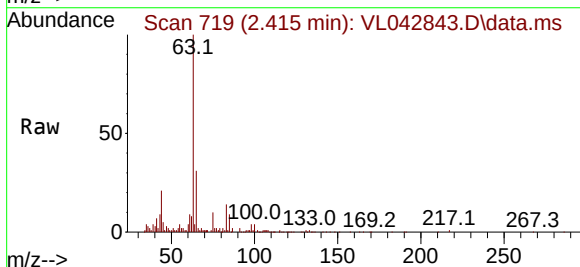
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

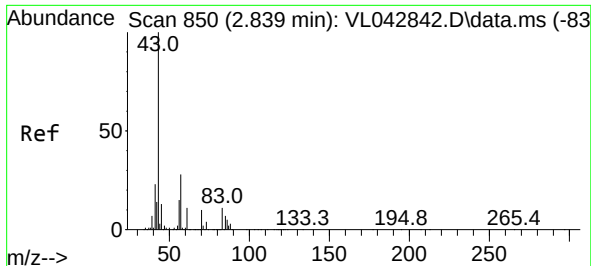
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 48269 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 8.2   | 6.6   | 9.8   |
| 42       | 9.7   | 7.0   | 10.6  |
| 44       | 6.8   | 4.0   | 6.0   |



#24  
 1,1-Dichloroethane  
 Concen: 2.024 ppbv  
 RT: 2.415 min Scan# 719  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 30931 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 3.4   | 2.1   | 6.5   |
| 100      | 4.0   | 1.7   | 5.1   |

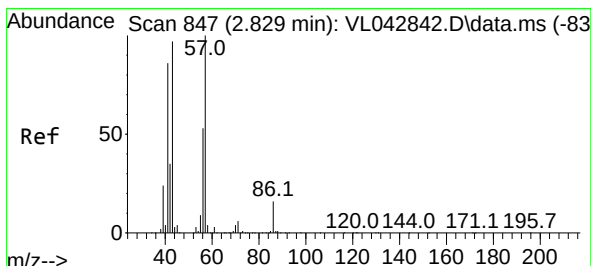
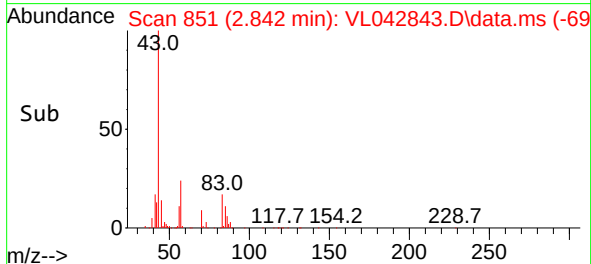
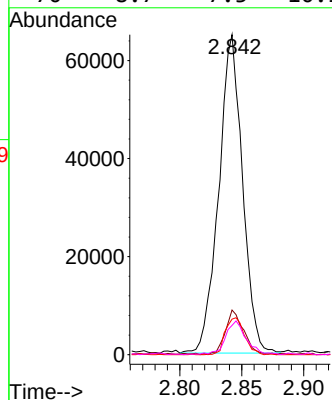
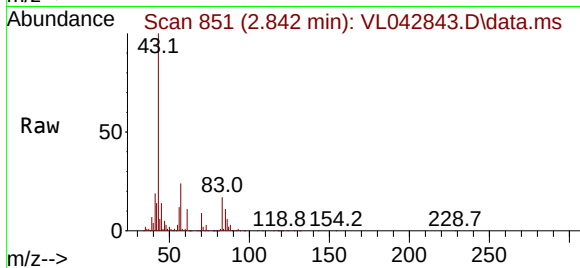




#25  
Ethyl Acetate  
Concen: 2.077 ppbv  
RT: 2.842 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

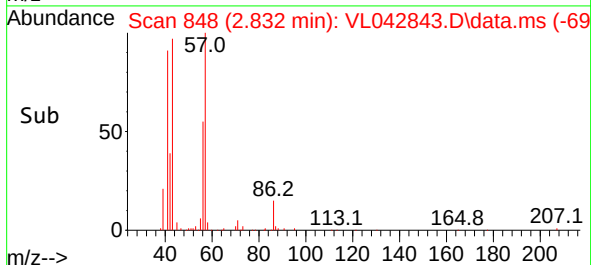
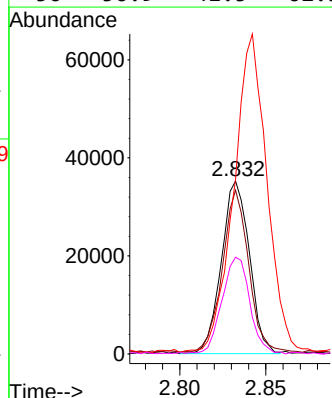
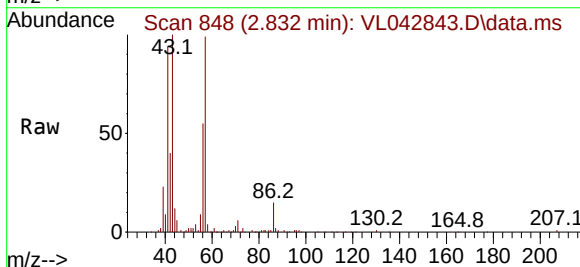
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

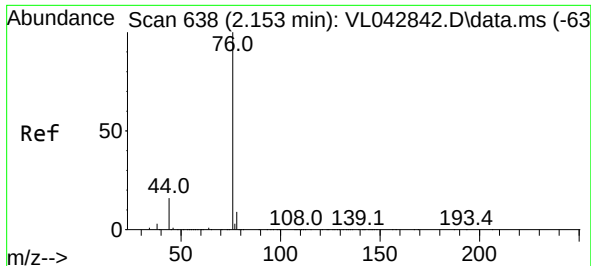
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 86804 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 11.4     | 8.1 12.1    |
| 61 9.4      | 7.4 11.2    |
| 70 8.7      | 7.3 10.9    |



#26  
Hexane  
Concen: 2.060 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

|             |             |
|-------------|-------------|
| Tgt Ion: 57 | Resp: 39735 |
| Ion Ratio   | Lower Upper |
| 57 100      |             |
| 41 90.3     | 68.6 103.0  |
| 43 219.4    | 168.5 252.7 |
| 56 56.9     | 41.5 62.3   |

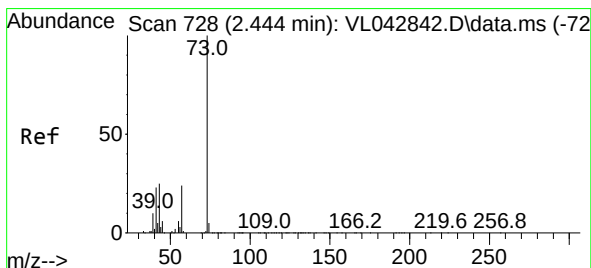
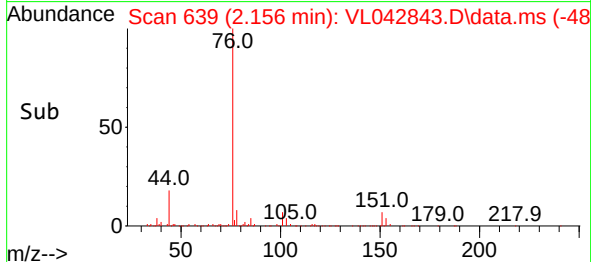
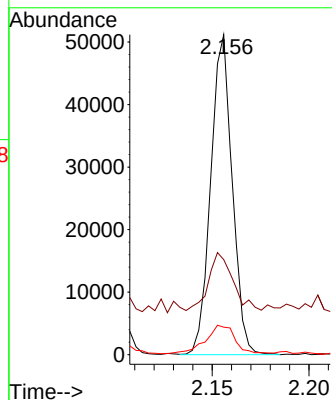
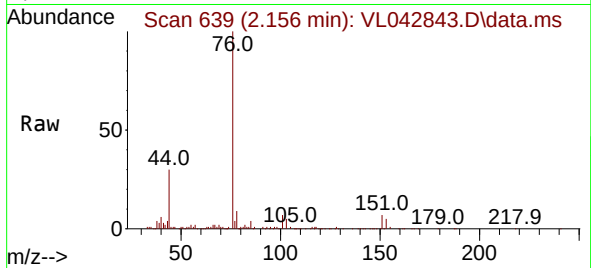




#27  
Carbon Disulfide  
Concen: 2.102 ppbv  
RT: 2.156 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

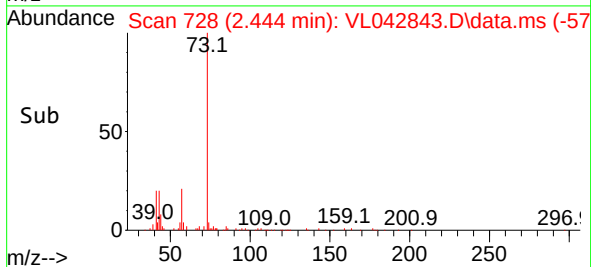
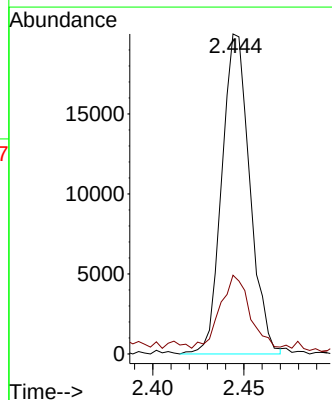
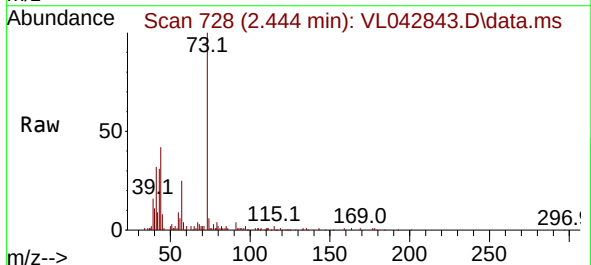
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

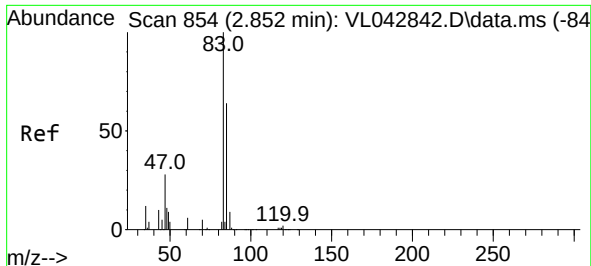
Tgt Ion: 76 Resp: 39466  
Ion Ratio Lower Upper  
76 100  
44 81.0 15.9 23.9#  
78 13.8 9.5 14.3



#28  
Methyl tert-Butyl Ether  
Concen: 2.169 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 73 Resp: 21341  
Ion Ratio Lower Upper  
73 100  
57 24.8 21.6 32.4





#29

Chloroform

Concen: 2.053 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

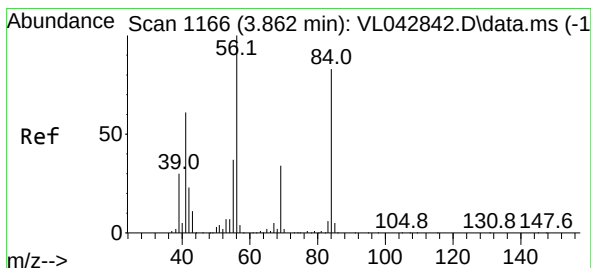
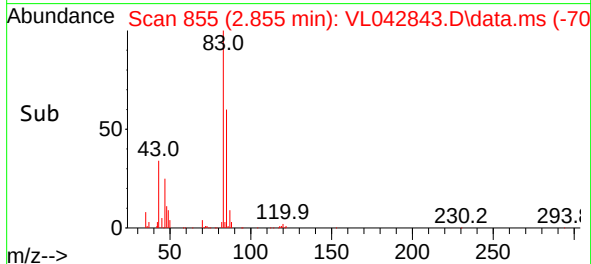
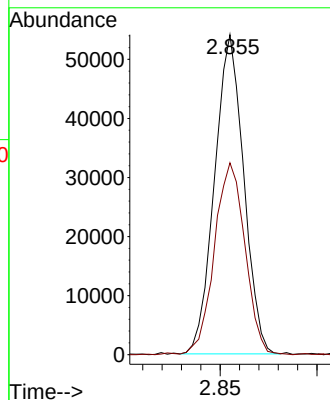
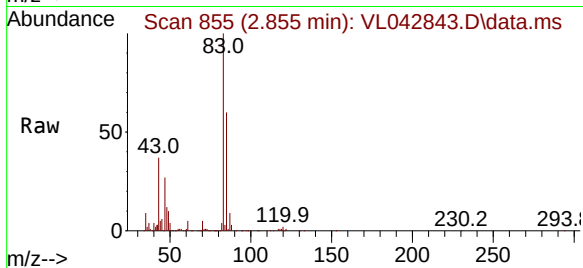
VSTDICC002

Tgt Ion: 83 Resp: 56553

Ion Ratio Lower Upper

83 100

85 59.9 51.1 76.7



#30

Cyclohexane

Concen: 2.069 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.007 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

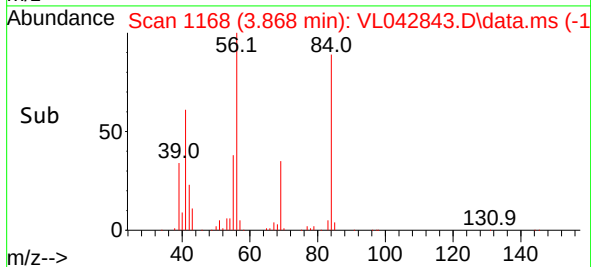
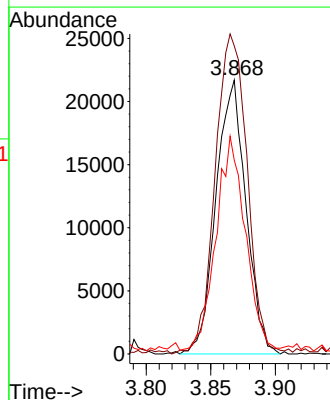
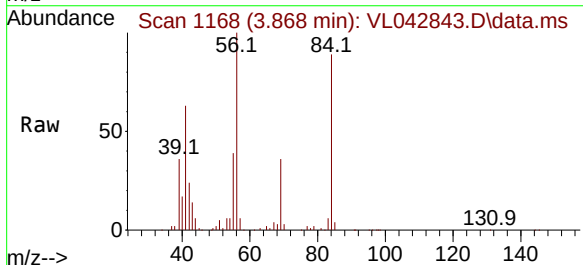
Tgt Ion: 84 Resp: 34992

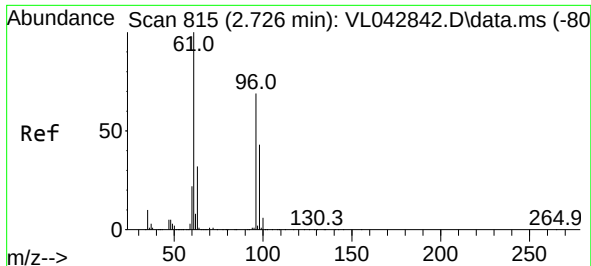
Ion Ratio Lower Upper

84 100

56 123.9 98.8 148.2

41 79.6 61.3 91.9

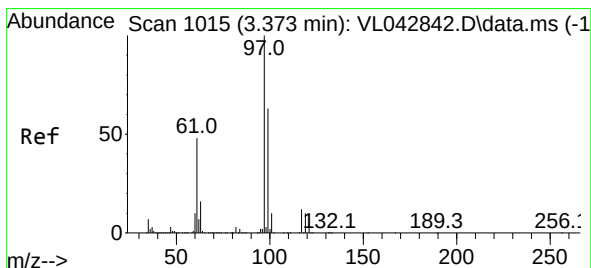
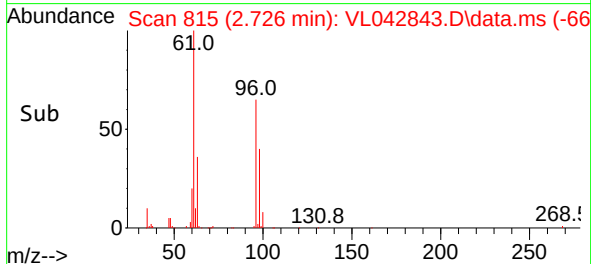
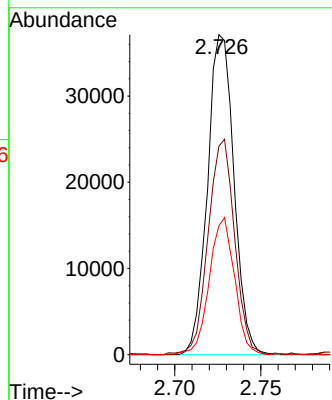
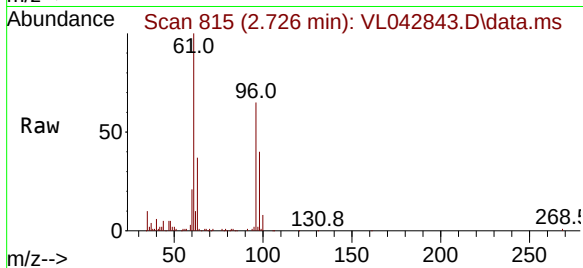




#31  
 cis-1,2-Dichloroethene  
 Concen: 2.062 ppbv  
 RT: 2.726 min Scan# 815  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

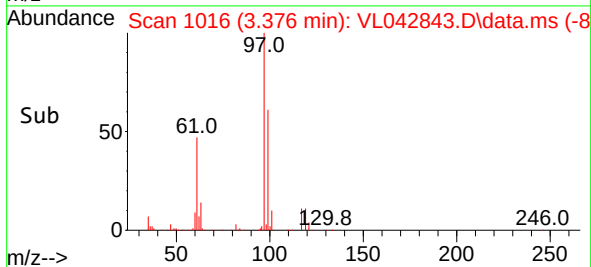
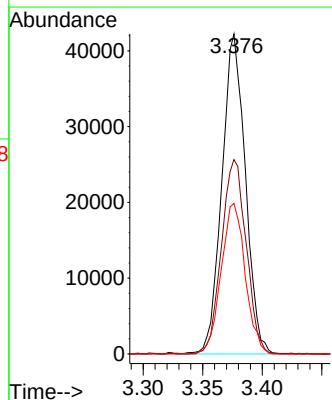
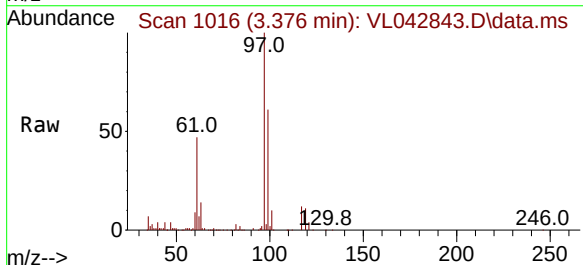
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC002

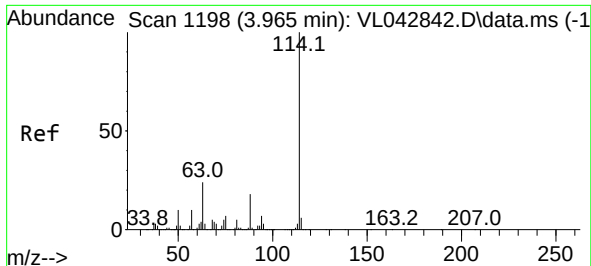
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 61    | Resp: | 39783 |
| Ion      | Ratio | Lower | Upper |
| 61       | 100   |       |       |
| 96       | 64.8  | 55.0  | 82.6  |
| 98       | 39.9  | 34.3  | 51.5  |



#32  
 1,1,1-Trichloroethane  
 Concen: 1.983 ppbv  
 RT: 3.376 min Scan# 1016  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 57837 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 63.9  | 51.0  | 76.6  |
| 61       | 48.1  | 38.0  | 57.0  |

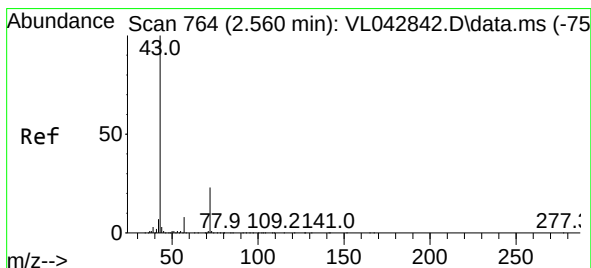
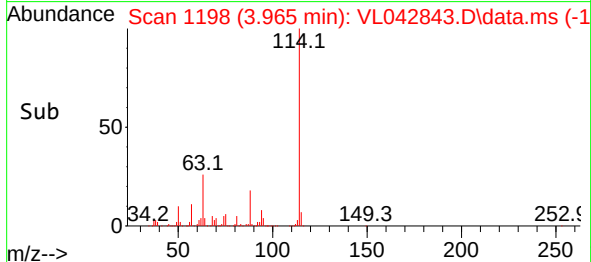
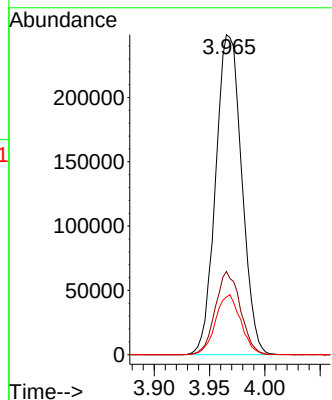
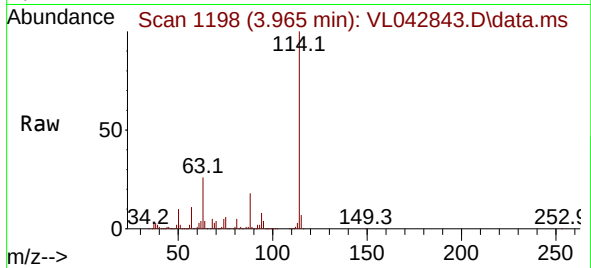




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 1198  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

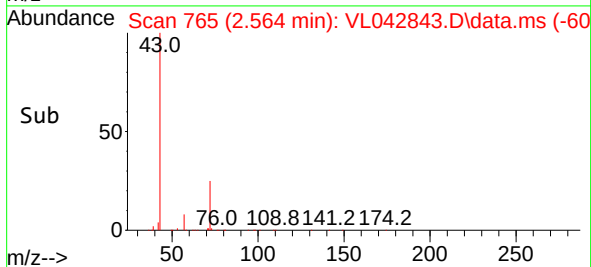
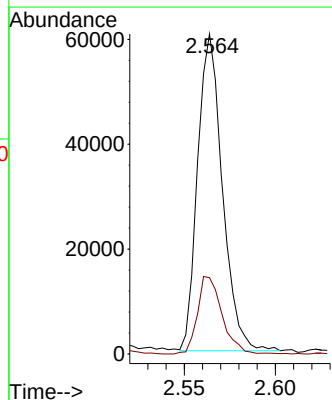
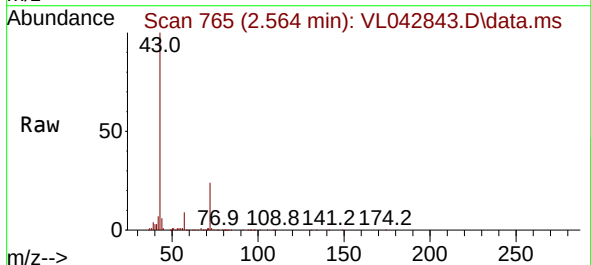
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

Tgt Ion:114 Resp: 408144  
Ion Ratio Lower Upper  
114 100  
63 25.0 19.7 29.5  
88 18.1 14.4 21.6

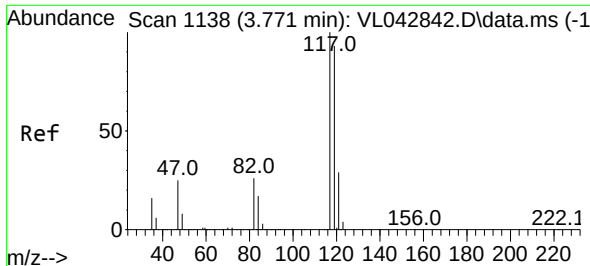


#34  
2-Butanone  
Concen: 2.075 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 57172  
Ion Ratio Lower Upper  
43 100  
72 24.3 18.6 28.0



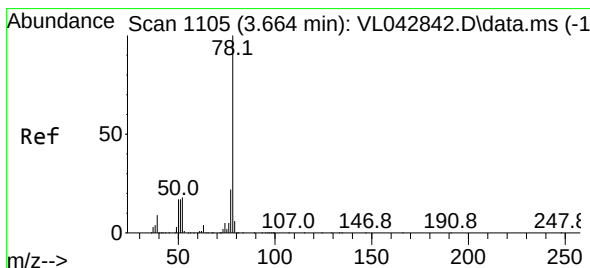
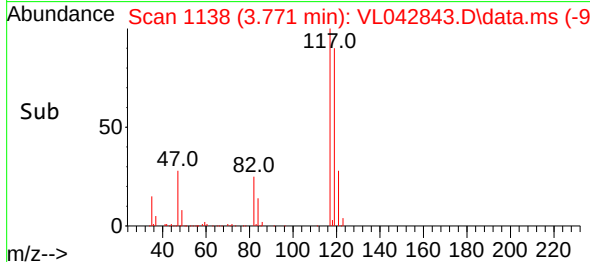
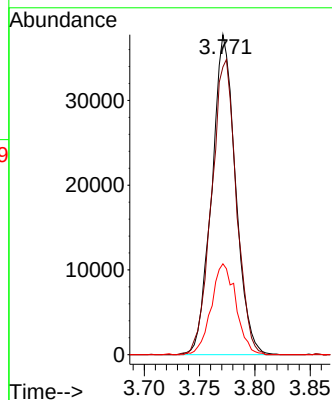
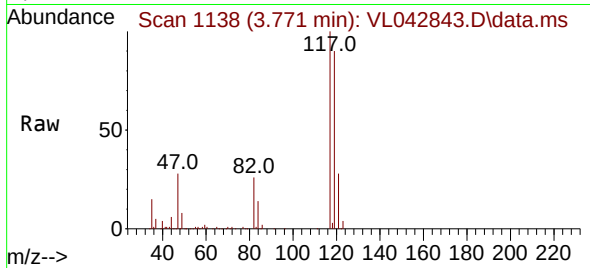




#35  
Carbon Tetrachloride  
Concen: 2.007 ppbv  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

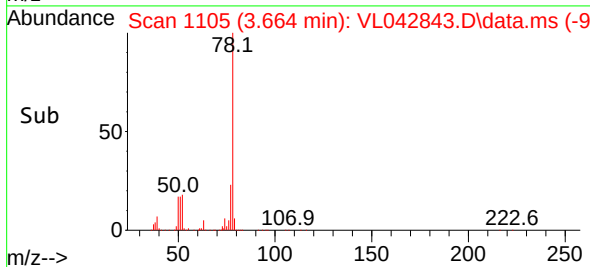
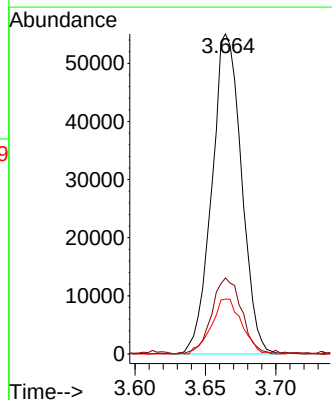
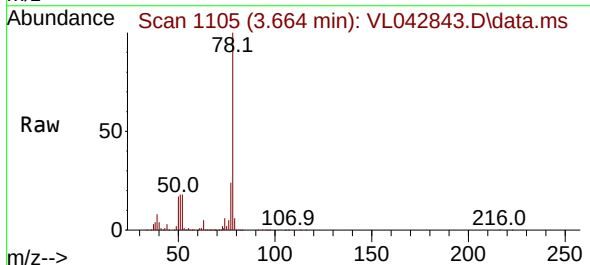
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

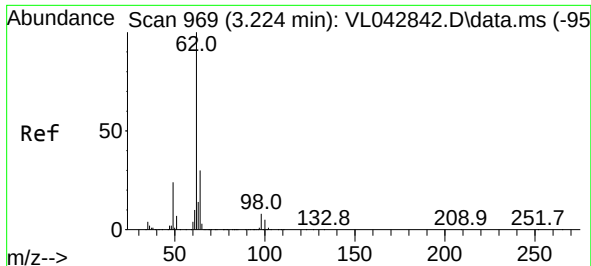
Tgt Ion:117 Resp: 56459  
Ion Ratio Lower Upper  
117 100  
119 89.9 74.7 112.1  
121 28.4 23.2 34.8



#36  
Benzene  
Concen: 2.067 ppbv  
RT: 3.664 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 78 Resp: 80781  
Ion Ratio Lower Upper  
78 100  
77 23.5 17.7 26.5  
50 17.2 13.9 20.9

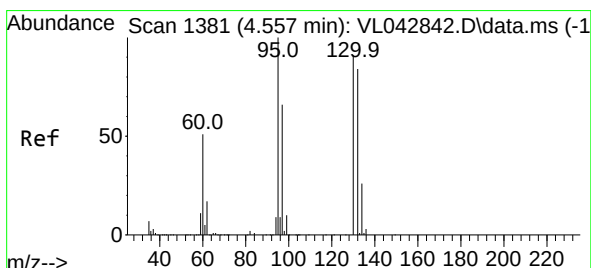
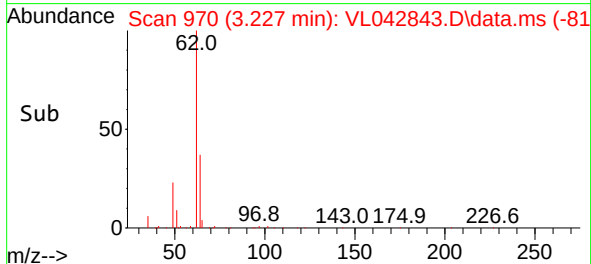
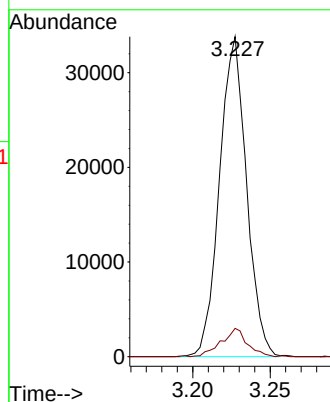
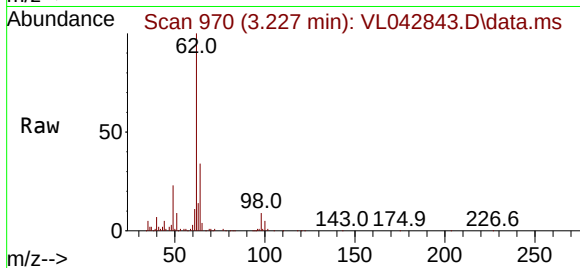




#37  
1,2-Dichloroethane  
Concen: 2.010 ppbv  
RT: 3.227 min Scan# 91  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

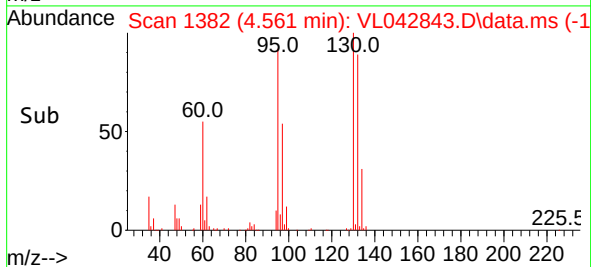
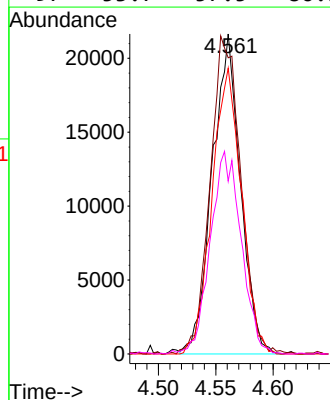
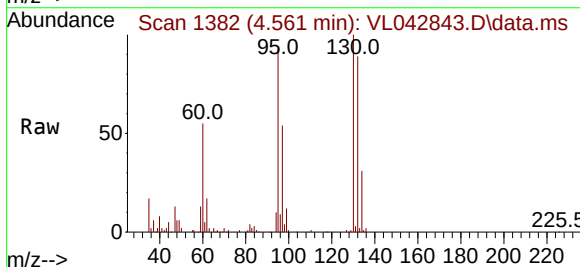
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

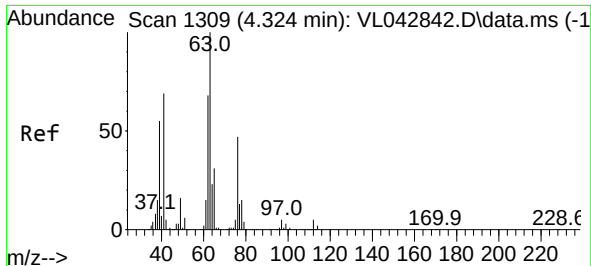
Tgt Ion: 62 Resp: 41034  
Ion Ratio Lower Upper  
62 100  
98 8.6 5.9 8.9



#38  
Trichloroethene  
Concen: 2.072 ppbv  
RT: 4.561 min Scan# 1382  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion:130 Resp: 36990  
Ion Ratio Lower Upper  
130 100  
95 91.5 87.6 131.4  
132 89.3 73.8 110.8  
97 53.7 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 2.036 ppbv

RT: 4.328 min Scan# 1309

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

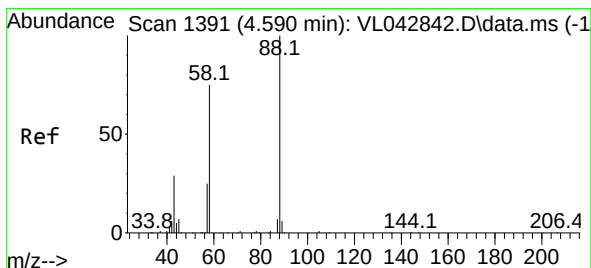
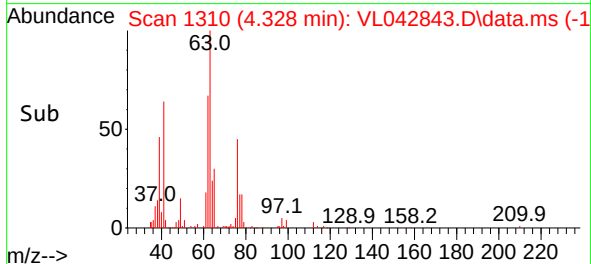
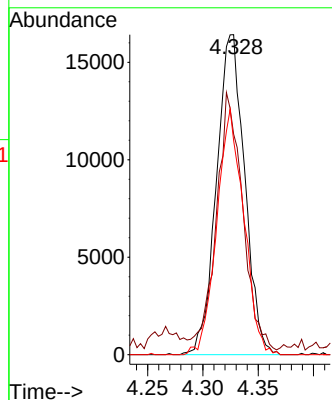
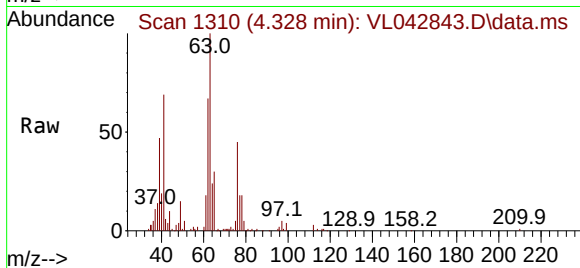
Tgt Ion: 63 Resp: 29059

Ion Ratio Lower Upper

63 100

41 66.8 55.0 82.4

62 66.9 54.4 81.6



#40

1,4-Dioxane

Concen: 1.788 ppbv

RT: 4.606 min Scan# 1396

Delta R.T. 0.016 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Tgt Ion: 88 Resp: 11947

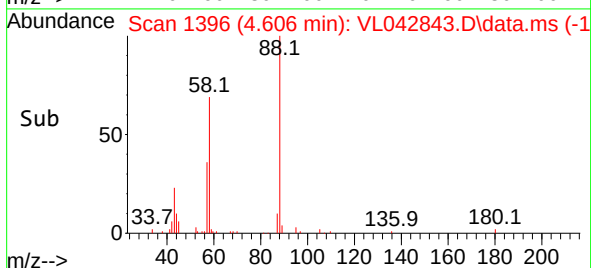
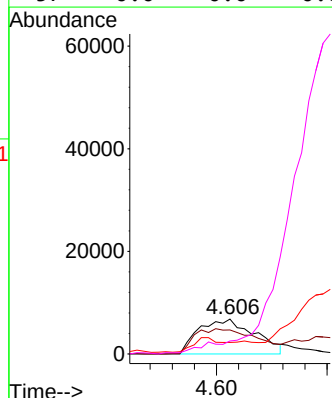
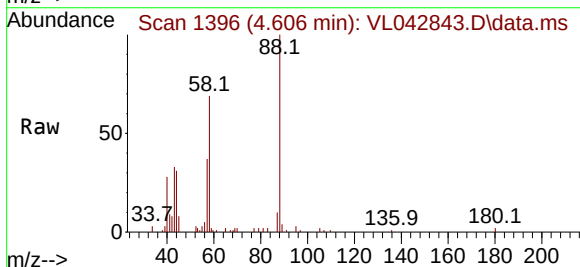
Ion Ratio Lower Upper

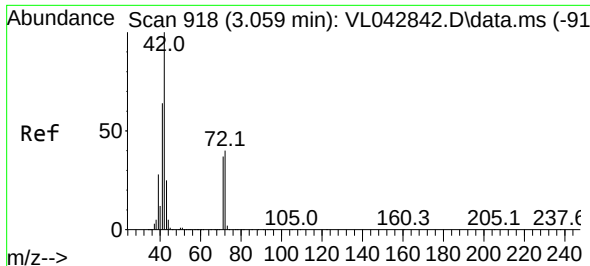
88 100

58 78.4 53.8 80.6

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

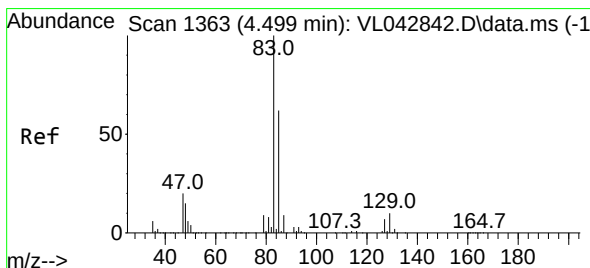
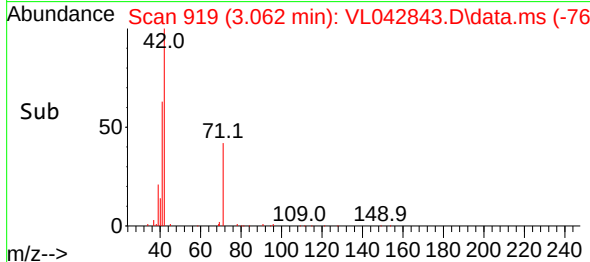
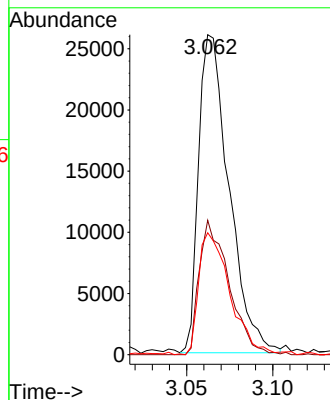
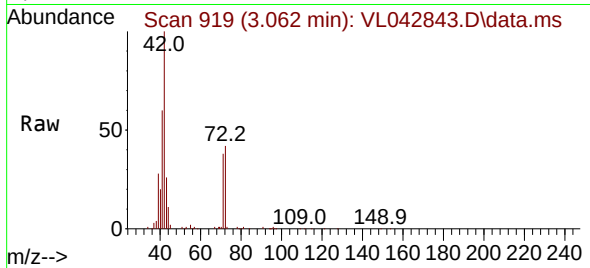




#41  
Tetrahydrofuran  
Concen: 2.082 ppbv  
RT: 3.062 min Scan# 918  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

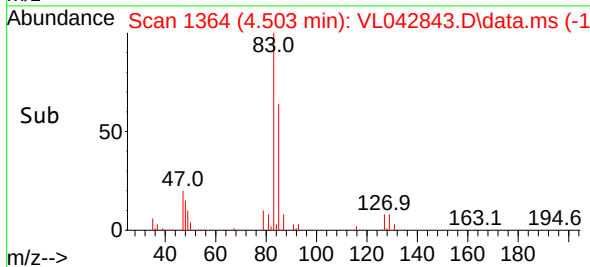
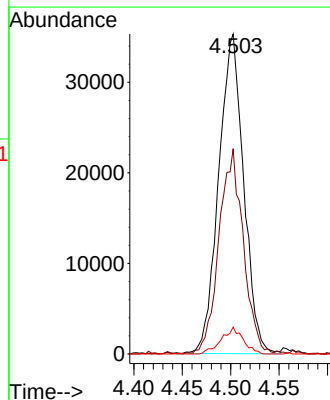
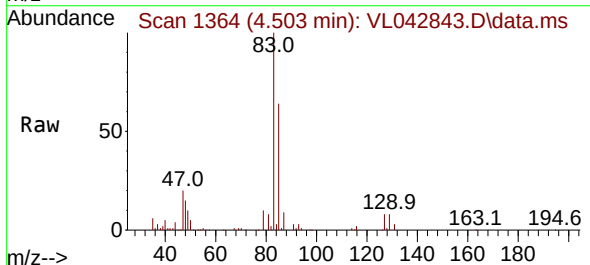
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

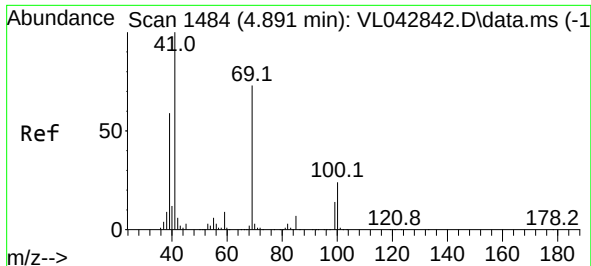
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 31994 |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 41.3  | 32.6  | 48.8  |
| 71        | 40.1  | 30.0  | 45.0  |



#42  
Bromodichloromethane  
Concen: 2.085 ppbv  
RT: 4.503 min Scan# 1364  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 63436 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 64.2  | 49.8  | 74.8  |
| 127       | 8.4   | 5.8   | 8.6   |

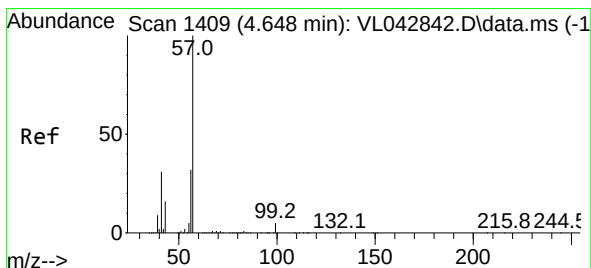
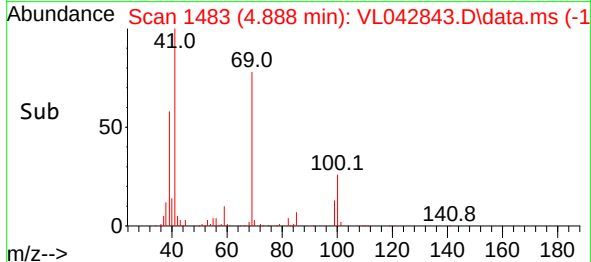
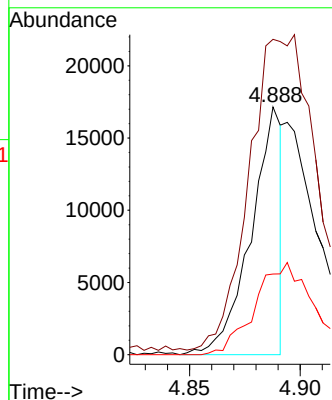
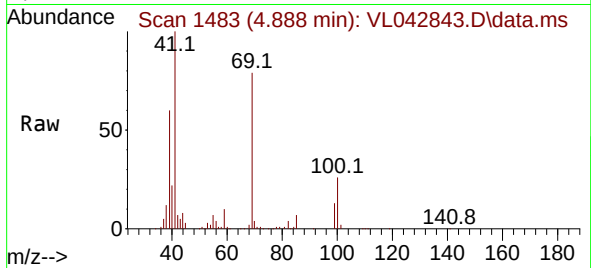




#43  
Methyl Methacrylate  
Concen: 1.030 ppbv  
RT: 4.888 min Scan# 1411  
Delta R.T. -0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

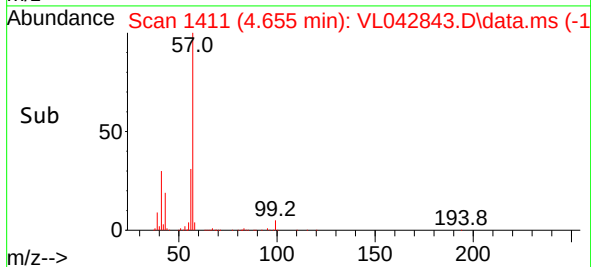
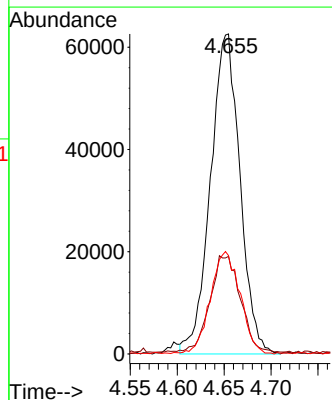
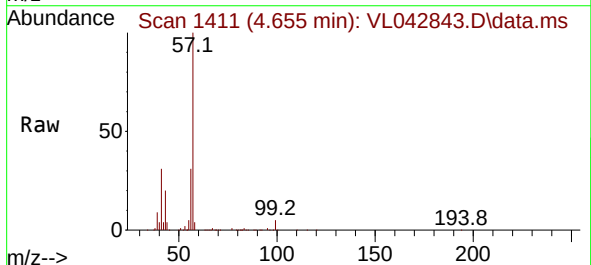
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

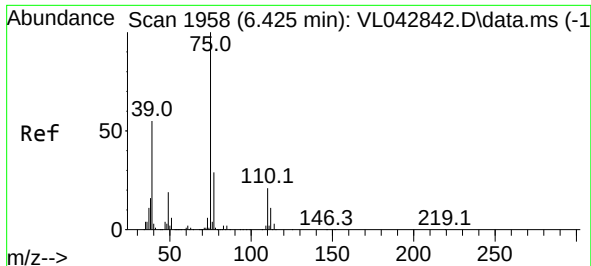
Tgt Ion: 69 Resp: 16511  
Ion Ratio Lower Upper  
69 100  
41 0.0 114.6 172.0#  
100 0.0 30.2 45.4#



#44  
2,2,4-Trimethylpentane  
Concen: 2.085 ppbv  
RT: 4.655 min Scan# 1411  
Delta R.T. 0.007 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 57 Resp: 136794  
Ion Ratio Lower Upper  
57 100  
41 32.5 24.8 37.2  
56 32.6 25.5 38.3

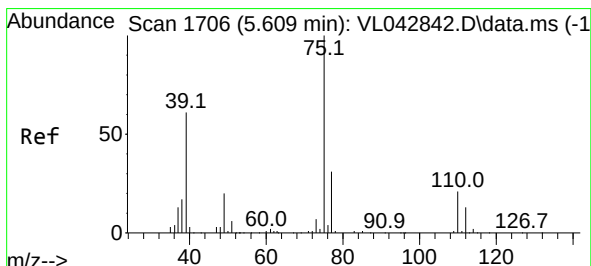
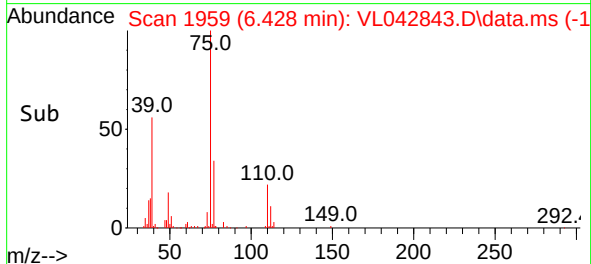
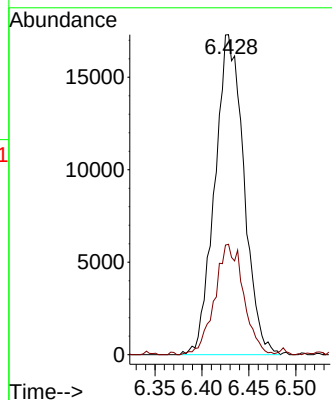
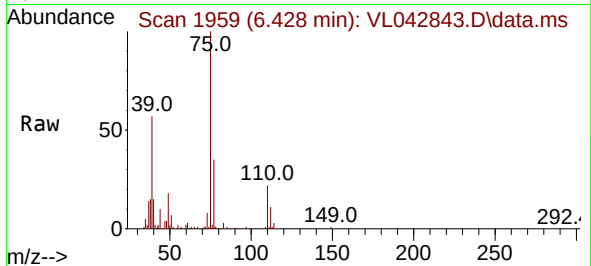




#45  
 t-1,3-Dichloropropene  
 Concen: 2.048 ppbv  
 RT: 6.428 min Scan# 1958  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

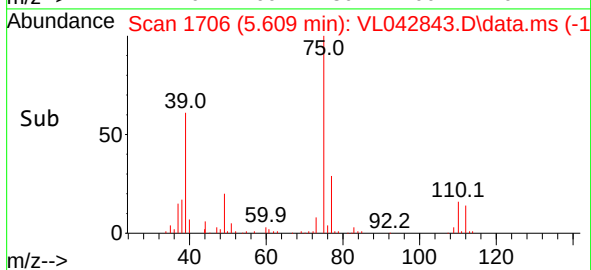
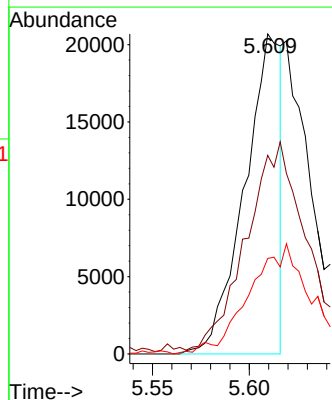
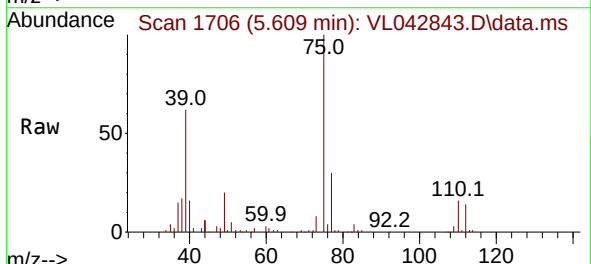
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

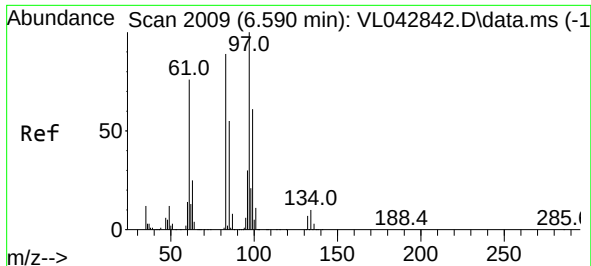
Tgt Ion: 75 Resp: 37248  
 Ion Ratio Lower Upper  
 75 100  
 77 35.2 23.8 35.6



#46  
 cis-1,3-Dichloropropene  
 Concen: 1.180 ppbv  
 RT: 5.609 min Scan# 1706  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

Tgt Ion: 75 Resp: 26940  
 Ion Ratio Lower Upper  
 75 100  
 39 60.0 48.9 73.3  
 77 29.4 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 1.466 ppbv

RT: 6.593 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC002

Tgt Ion: 97 Resp: 22158

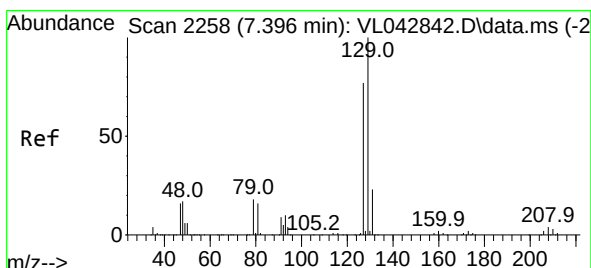
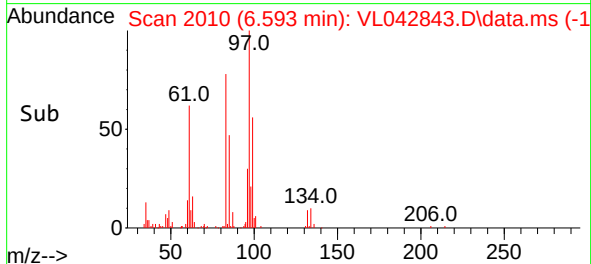
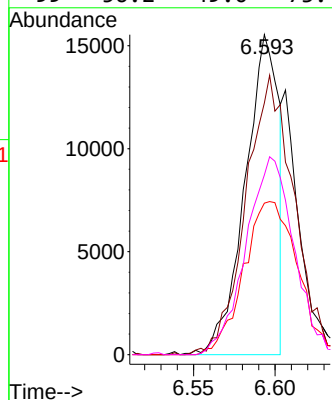
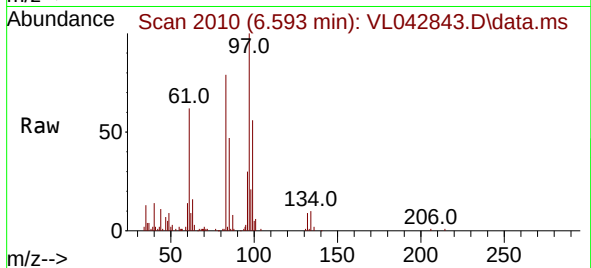
Ion Ratio Lower Upper

97 100

83 78.7 71.0 106.4

85 47.3 43.6 65.4

99 56.2 49.0 73.4



#48

Dibromochloromethane

Concen: 2.109 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042843.D

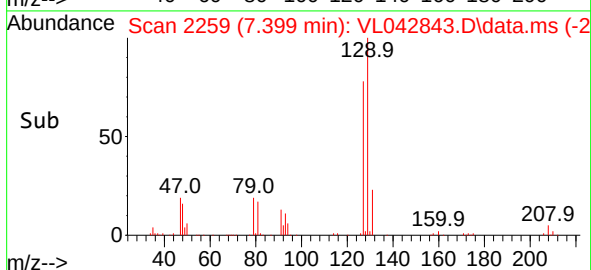
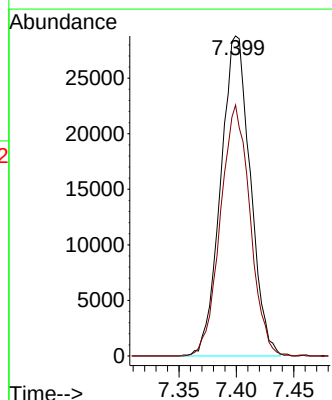
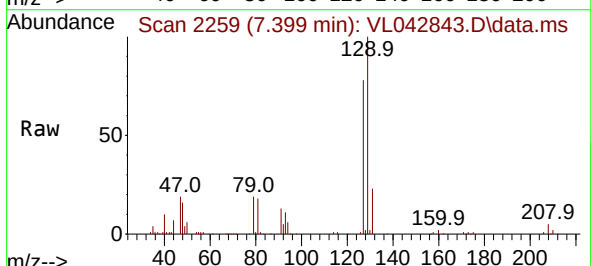
Acq: 13 Aug 2025 09:06

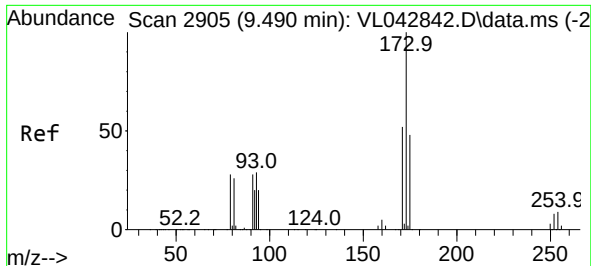
Tgt Ion: 129 Resp: 51620

Ion Ratio Lower Upper

129 100

127 78.4 39.4 118.2

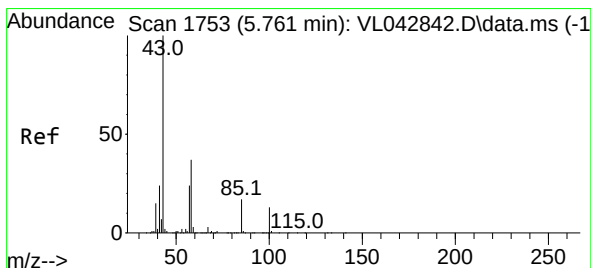
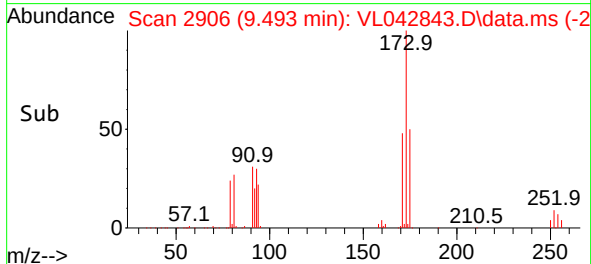
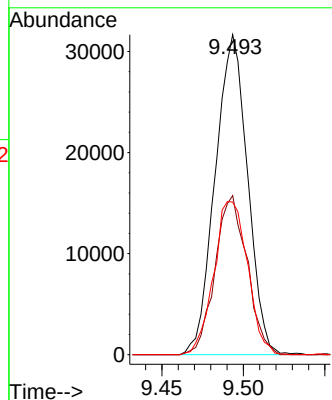
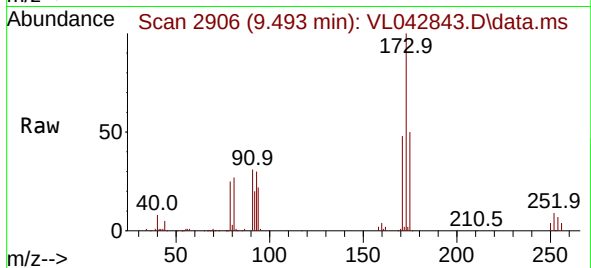




#49  
Bromoform  
Concen: 2.163 ppbv  
RT: 9.493 min Scan# 2905  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

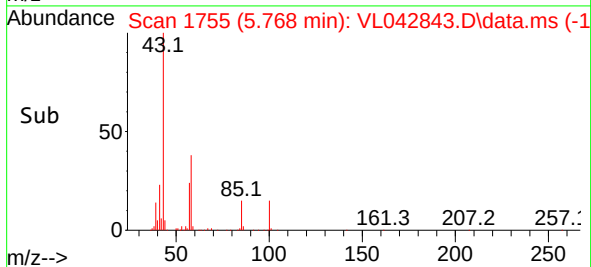
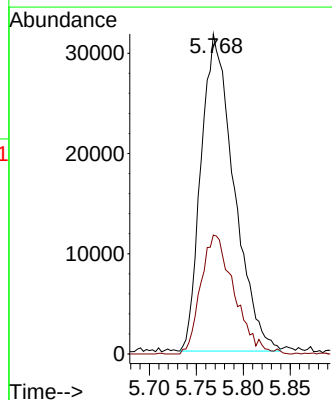
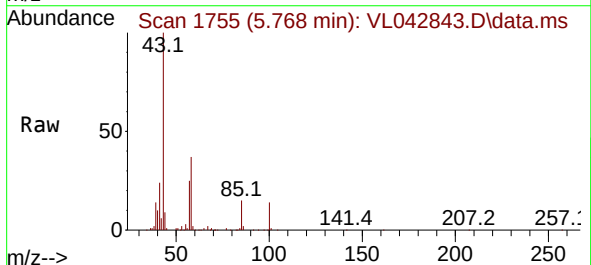
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

Tgt Ion:173 Resp: 43662  
Ion Ratio Lower Upper  
173 100  
175 49.1 39.2 58.8  
171 50.0 41.3 61.9

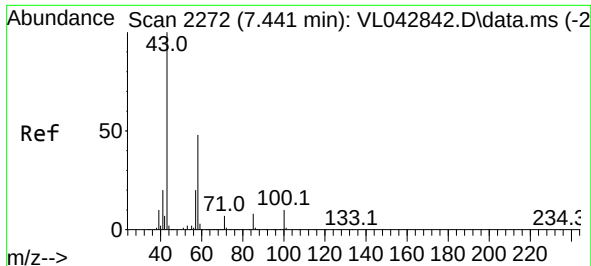


#50  
4-Methyl-2-Pentanone  
Concen: 2.066 ppbv  
RT: 5.768 min Scan# 1755  
Delta R.T. 0.007 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 43 Resp: 77225  
Ion Ratio Lower Upper  
43 100  
58 38.1 29.8 44.8



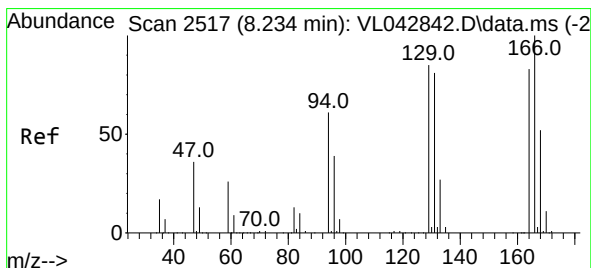
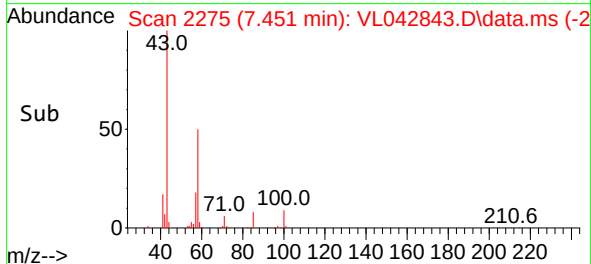
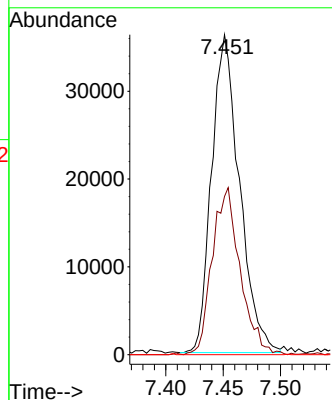
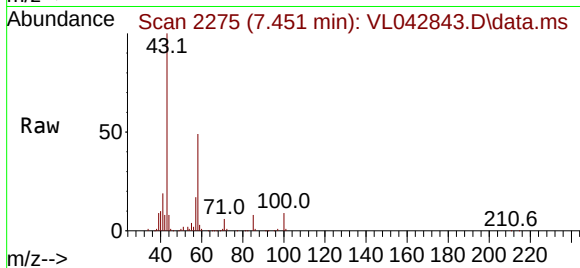




#51  
2-Hexanone  
Concen: 2.088 ppbv  
RT: 7.451 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

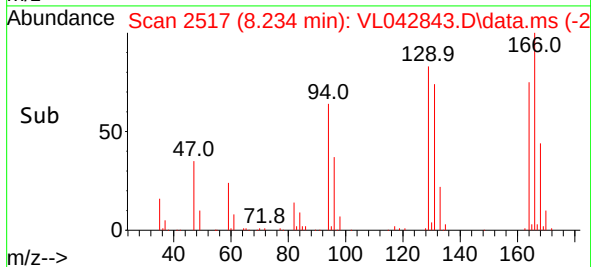
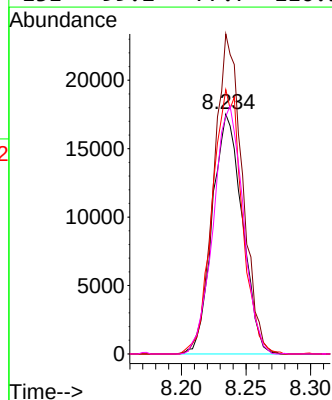
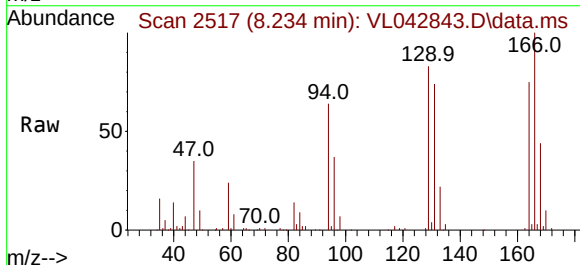
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

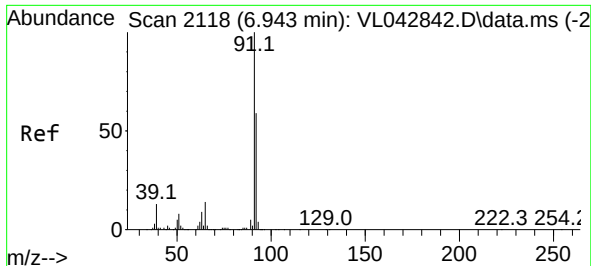
Tgt Ion: 43 Resp: 61210  
Ion Ratio Lower Upper  
43 100  
58 52.9 41.0 61.6  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 1.990 ppbv  
RT: 8.234 min Scan# 2517  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 164 Resp: 28166  
Ion Ratio Lower Upper  
164 100  
166 133.5 96.5 144.7  
129 110.3 81.8 122.6  
131 99.2 77.7 116.5

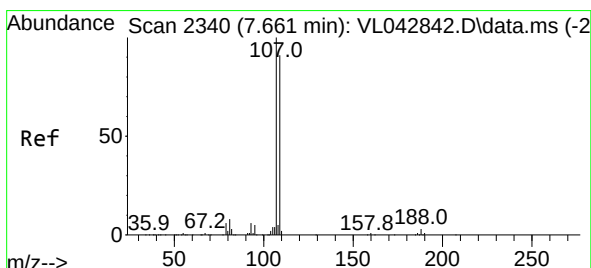
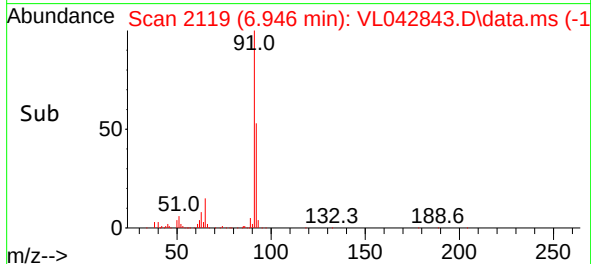
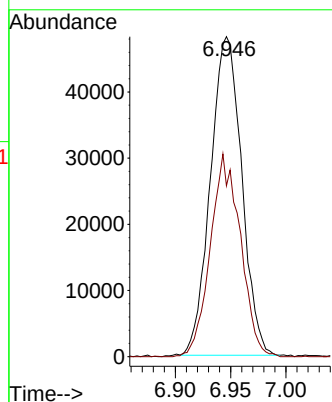
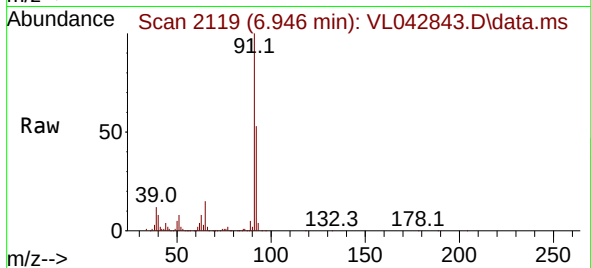




#53  
Toluene  
Concen: 2.036 ppbv  
RT: 6.946 min Scan# 2119  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

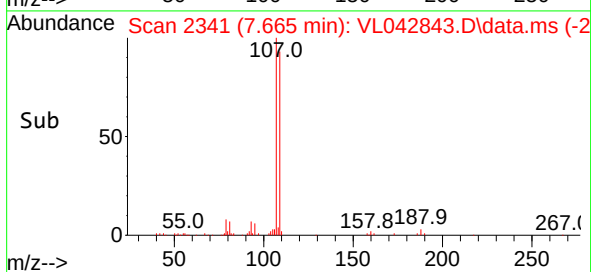
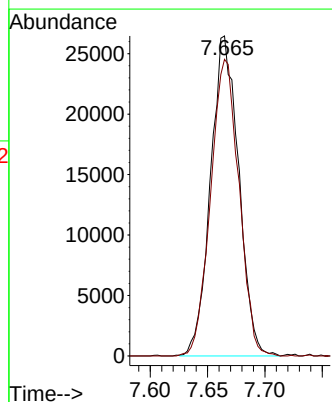
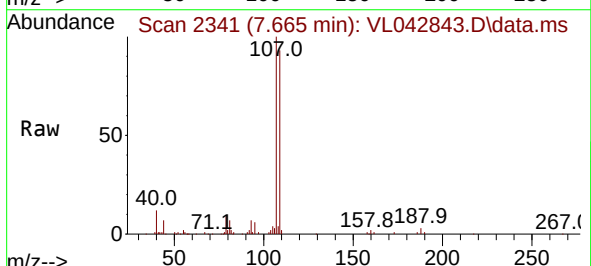
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

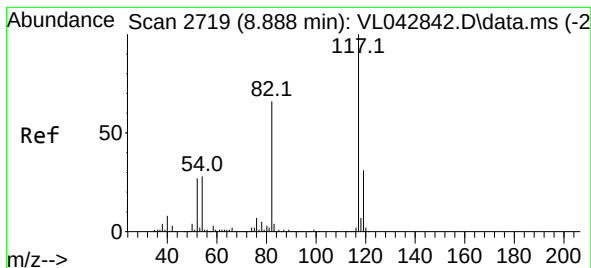
Tgt Ion: 91 Resp: 94690  
Ion Ratio Lower Upper  
91 100  
92 61.1 47.8 71.6



#54  
1,2-Dibromoethane  
Concen: 2.039 ppbv  
RT: 7.665 min Scan# 2341  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 107 Resp: 45071  
Ion Ratio Lower Upper  
107 100  
109 92.7 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 2719

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC002

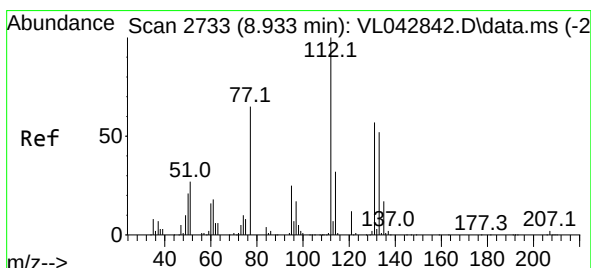
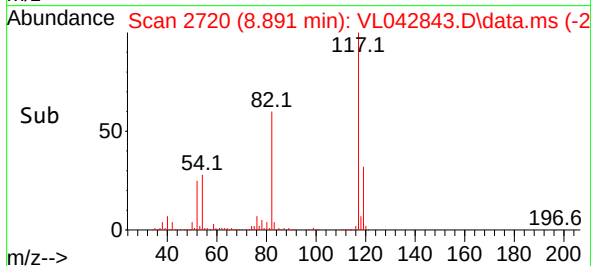
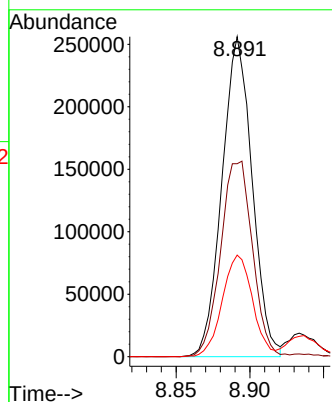
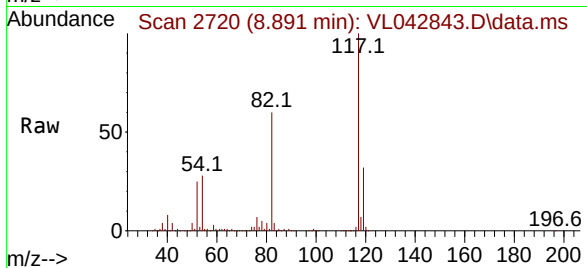
Tgt Ion:117 Resp: 363830

Ion Ratio Lower Upper

117 100

82 65.4 54.6 81.8

119 32.8 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 2.131 ppbv

RT: 8.933 min Scan# 2733

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

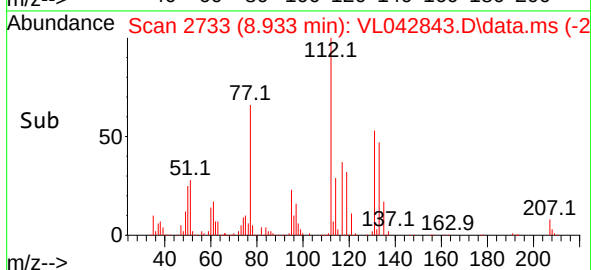
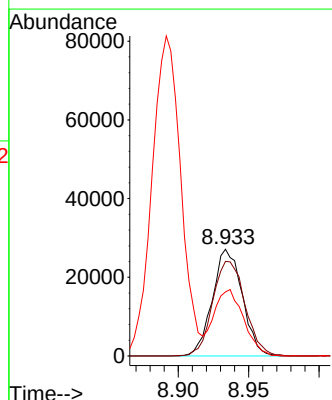
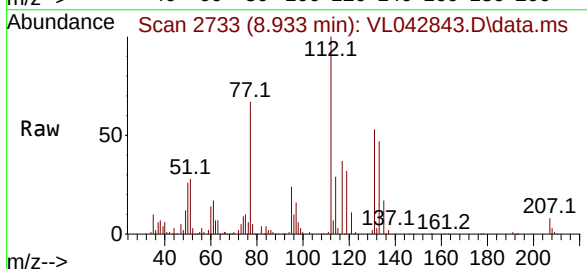
Tgt Ion:131 Resp: 40090

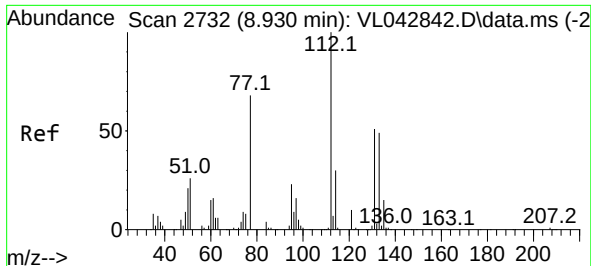
Ion Ratio Lower Upper

131 100

133 96.1 77.4 116.0

119 59.3 51.2 76.8

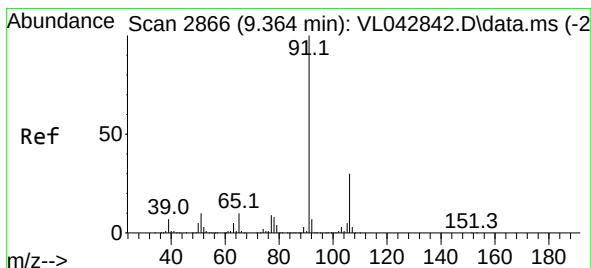
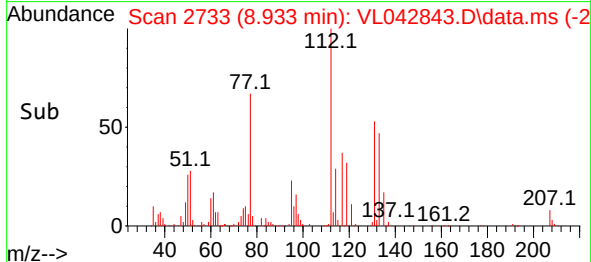
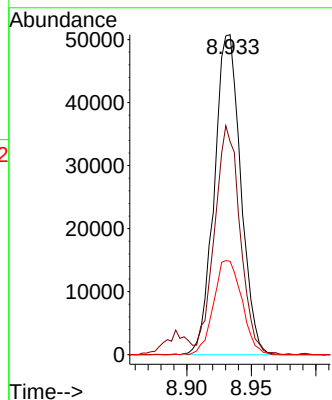
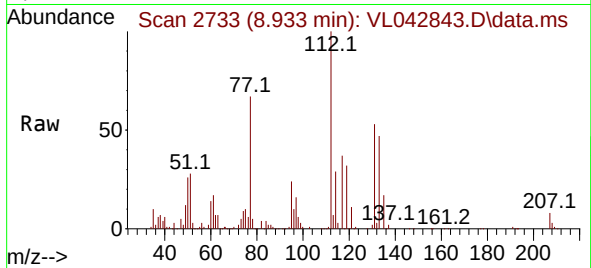




#57  
Chlorobenzene  
Concen: 2.090 ppbv  
RT: 8.933 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

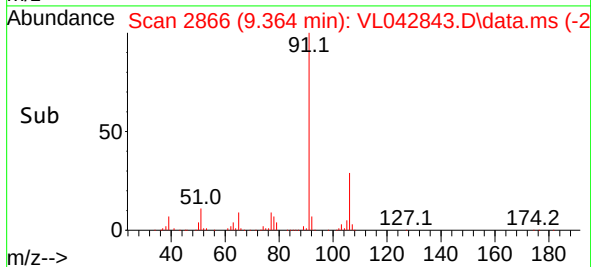
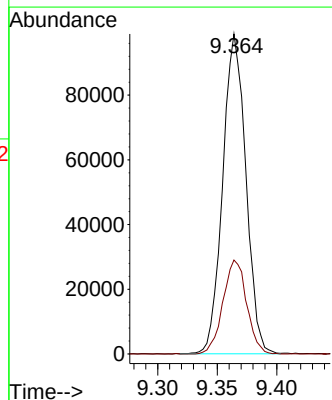
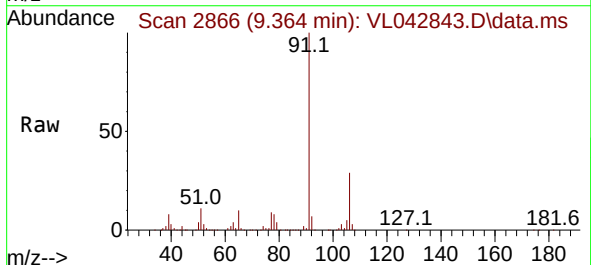
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

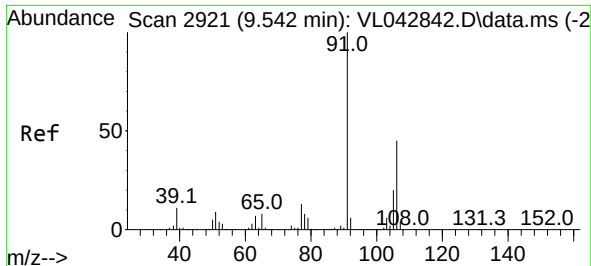
Tgt Ion:112 Resp: 72296  
Ion Ratio Lower Upper  
112 100  
77 66.4 55.5 83.3  
114 29.2 27.2 33.2



#58  
Ethyl Benzene  
Concen: 2.083 ppbv  
RT: 9.364 min Scan# 2866  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 133719  
Ion Ratio Lower Upper  
91 100  
106 29.4 23.9 35.9

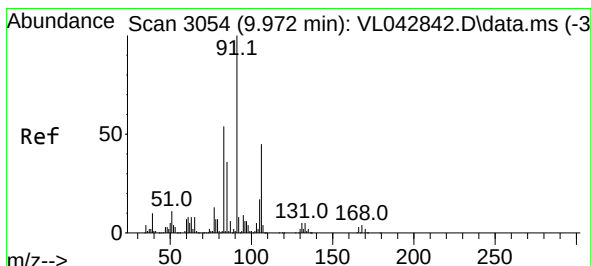
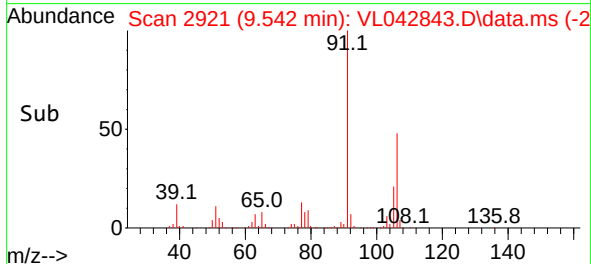
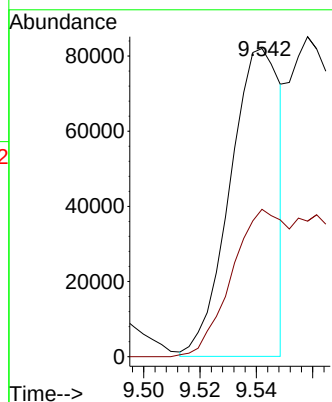
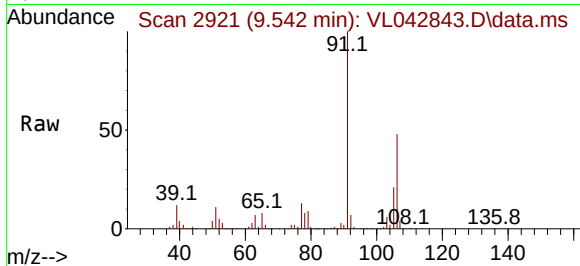




#59  
m/p-Xylene  
Concen: 1.998 ppbv  
RT: 9.542 min Scan# 2921  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

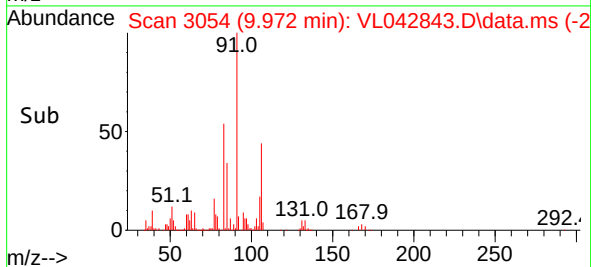
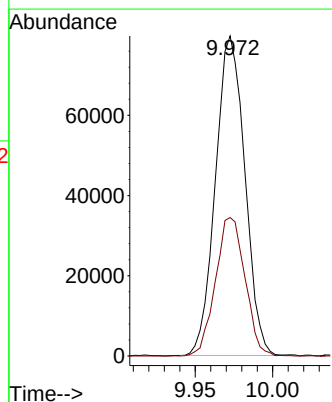
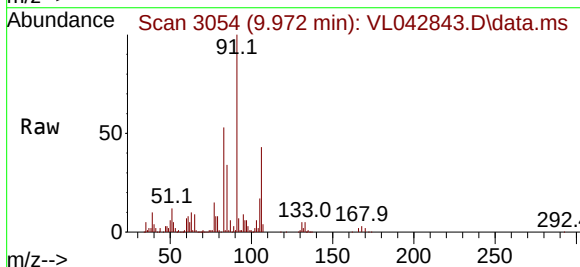
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

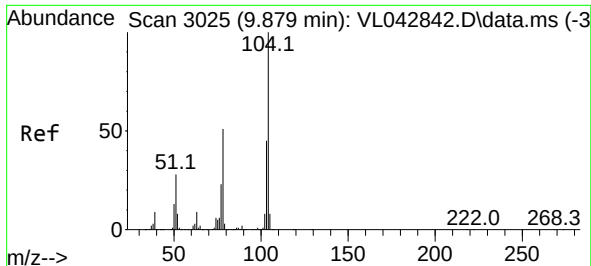
Tgt Ion: 91 Resp: 100699  
Ion Ratio Lower Upper  
91 100  
106 97.0 0.0 0.0#



#60  
o-Xylene  
Concen: 2.077 ppbv  
RT: 9.972 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 105125  
Ion Ratio Lower Upper  
91 100  
106 43.5 21.8 65.4

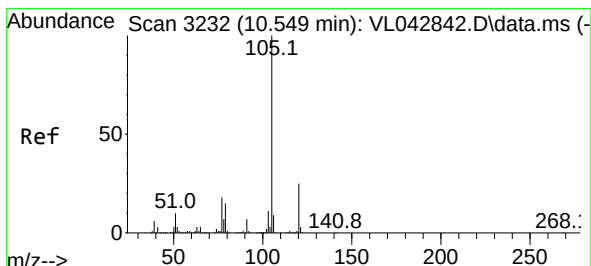
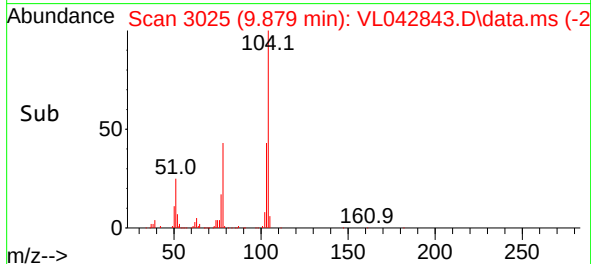
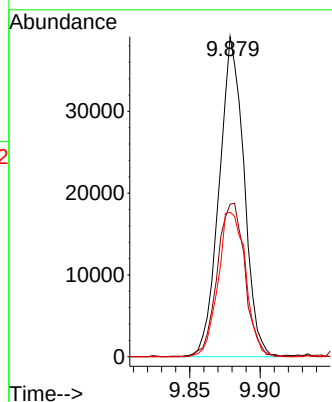
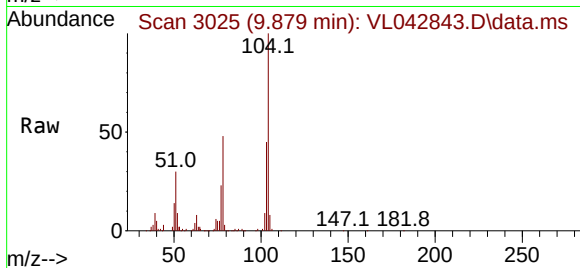




#61  
Styrene  
Concen: 2.025 ppbv  
RT: 9.879 min Scan# 3025  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

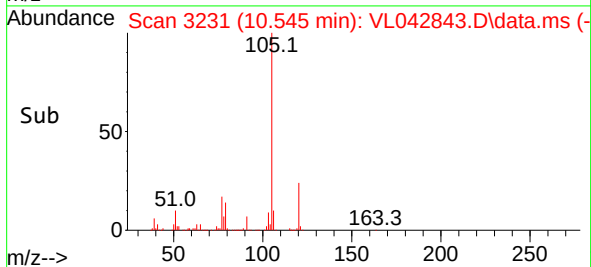
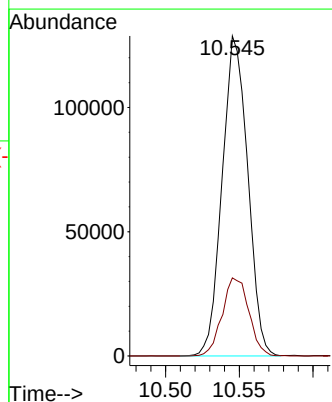
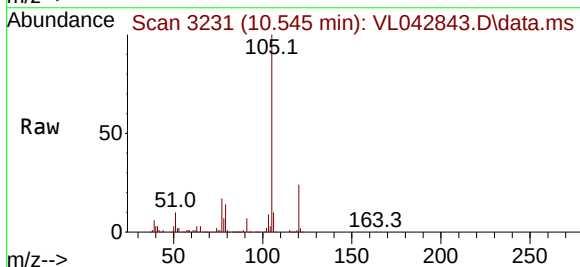
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC002

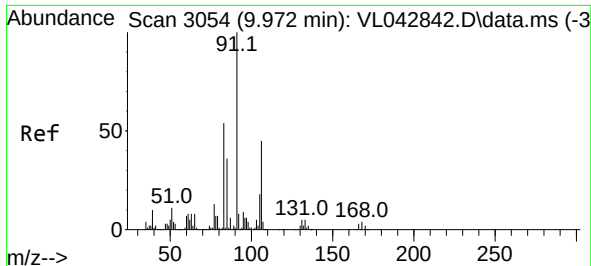
Tgt Ion:104 Resp: 48027  
Ion Ratio Lower Upper  
104 100  
78 53.4 40.6 61.0  
103 50.1 37.7 56.5



#62  
Isopropylbenzene  
Concen: 2.098 ppbv  
RT: 10.545 min Scan# 3231  
Delta R.T. -0.003 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion:105 Resp: 155223  
Ion Ratio Lower Upper  
105 100  
120 25.5 20.6 30.8

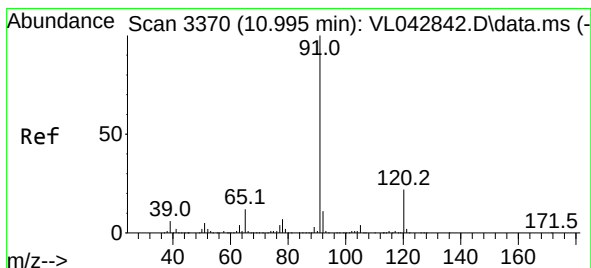
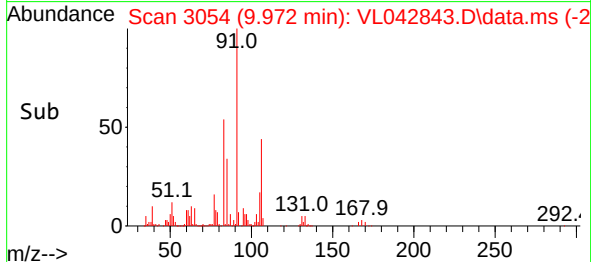
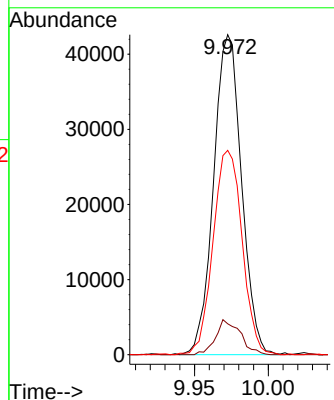
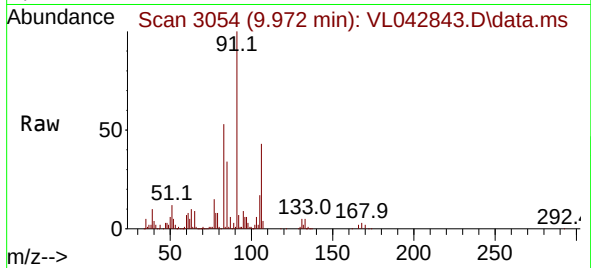




#63  
1,1,2,2-Tetrachloroethane  
Concen: 2.031 ppbv  
RT: 9.972 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

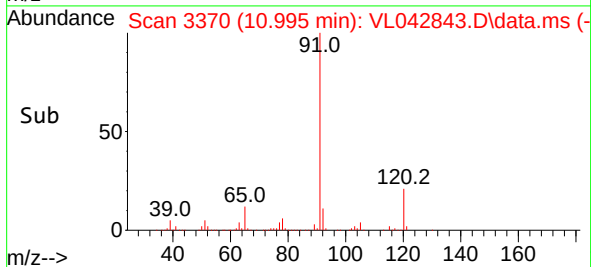
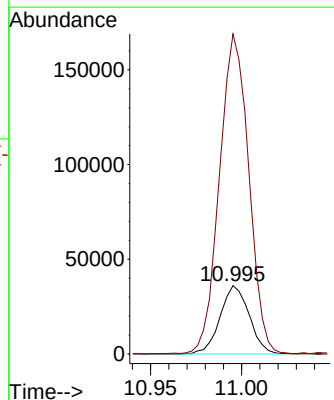
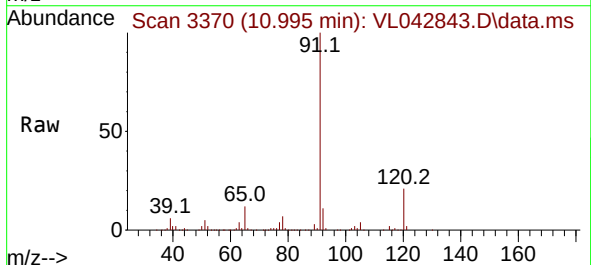
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC002

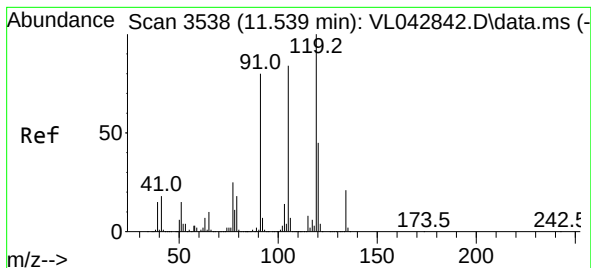
Tgt Ion: 83 Resp: 56139  
Ion Ratio Lower Upper  
83 100  
131 9.7 4.8 14.3  
85 66.5 32.3 96.8



#64  
n-propylbenzene  
Concen: 2.115 ppbv  
RT: 10.995 min Scan# 3370  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 120 Resp: 39922  
Ion Ratio Lower Upper  
120 100  
91 476.7 375.8 563.6

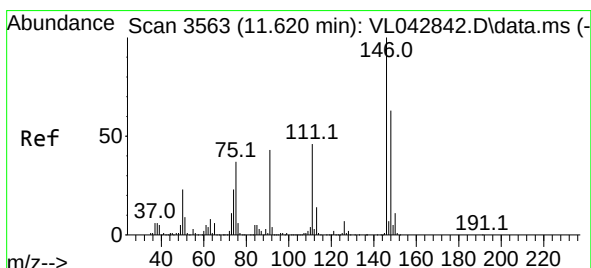
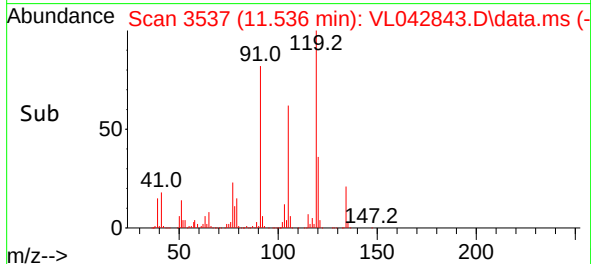
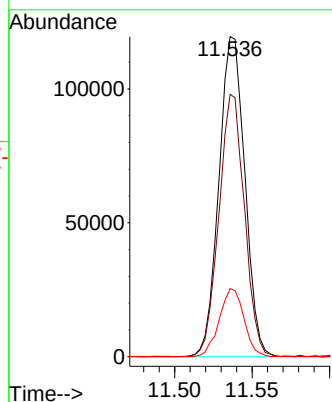
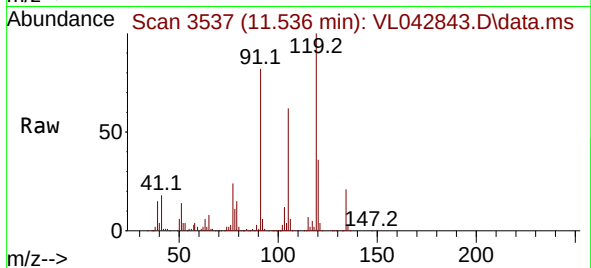




#65  
 tert-Butylbenzene  
 Concen: 2.132 ppbv  
 RT: 11.536 min Scan# 3537  
 Delta R.T. -0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

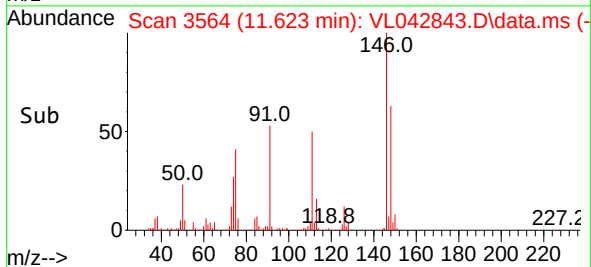
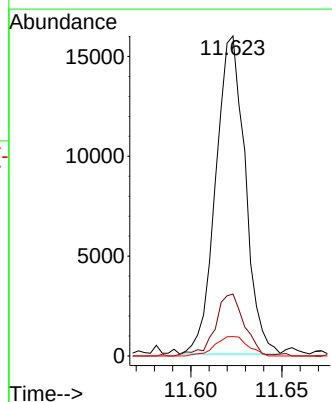
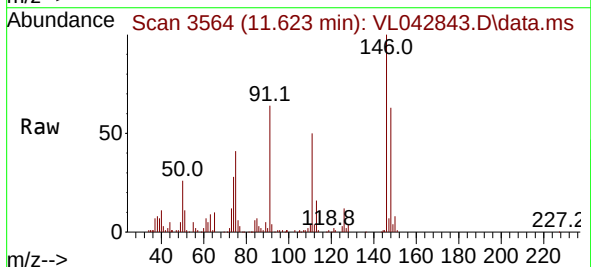
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC002

Tgt Ion:119 Resp: 139019  
 Ion Ratio Lower Upper  
 119 100  
 91 80.9 63.9 95.9  
 134 20.3 17.0 25.4

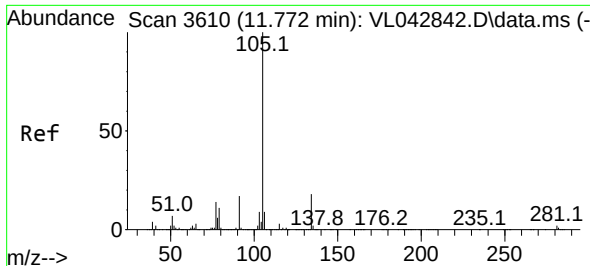


#66  
 Benzyl Chloride  
 Concen: 2.161 ppbv  
 RT: 11.623 min Scan# 3564  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 17893  
 Ion Ratio Lower Upper  
 91 100  
 126 19.5 14.2 21.4  
 128 6.9 5.0 7.6



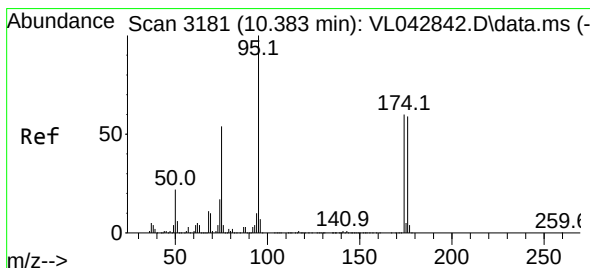
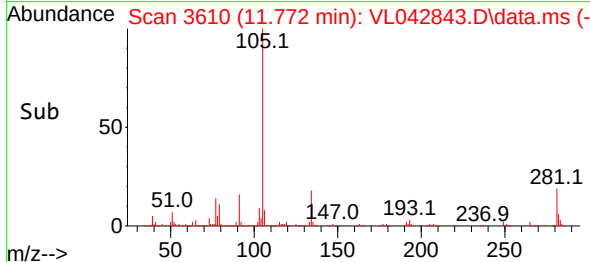
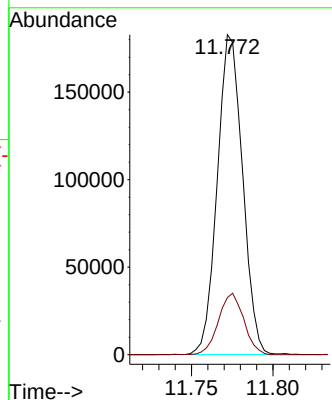
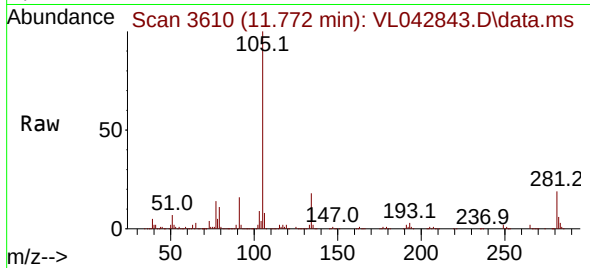




#67  
 sec-Butylbenzene  
 Concen: 2.151 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

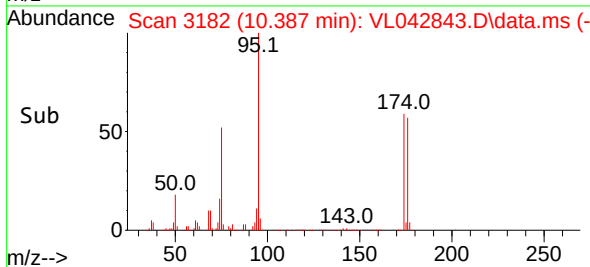
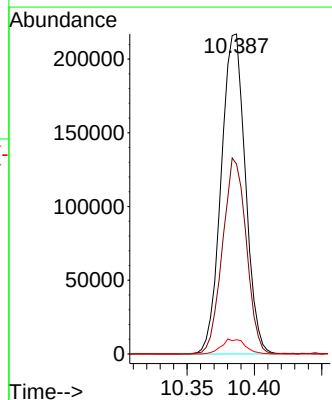
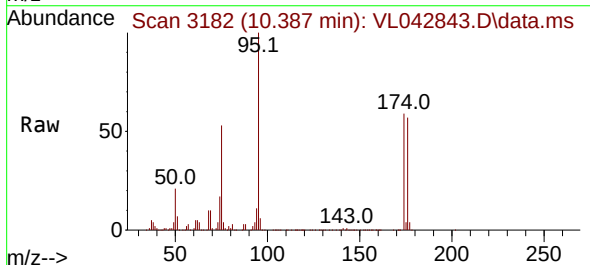
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICC002

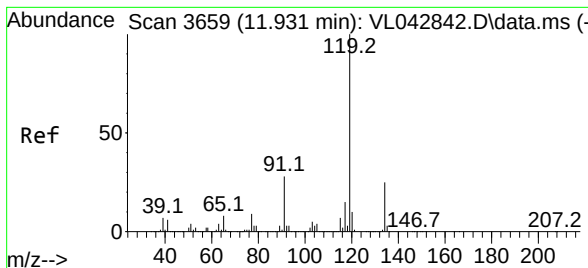
Tgt Ion:105 Resp: 196899  
 Ion Ratio Lower Upper  
 105 100  
 134 19.3 14.9 22.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.923 ppbv  
 RT: 10.387 min Scan# 3182  
 Delta R.T. 0.003 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

Tgt Ion: 95 Resp: 270774  
 Ion Ratio Lower Upper  
 95 100  
 174 60.2 48.4 72.6  
 175 4.6 3.8 5.8

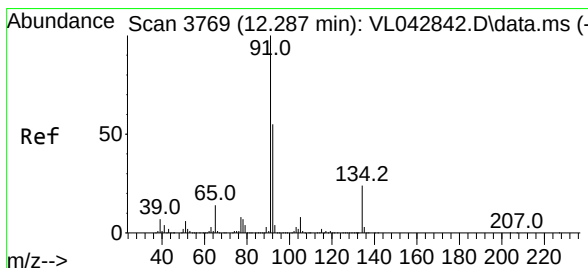
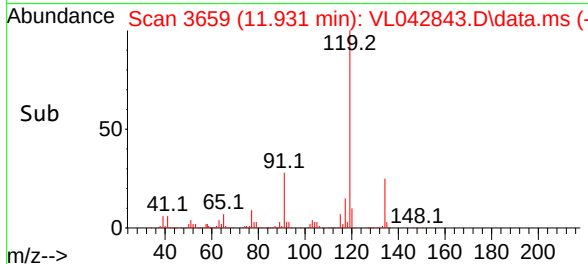
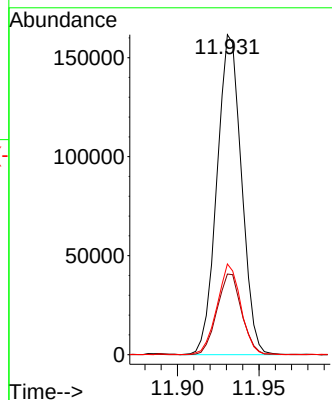
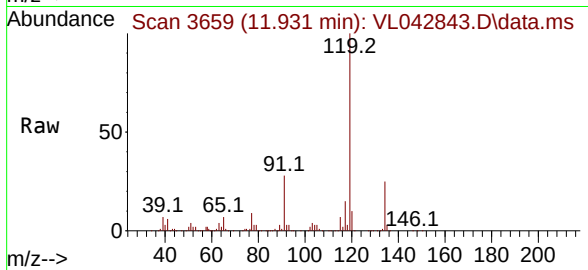




#69  
p-Isopropyltoluene  
Concen: 2.156 ppbv  
RT: 11.931 min Scan# 3659  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

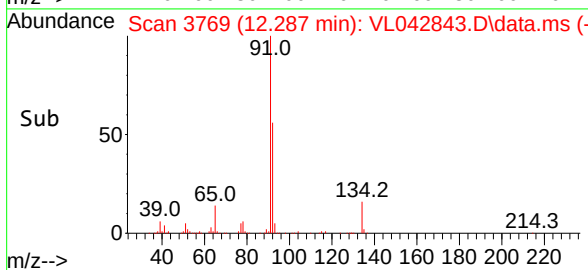
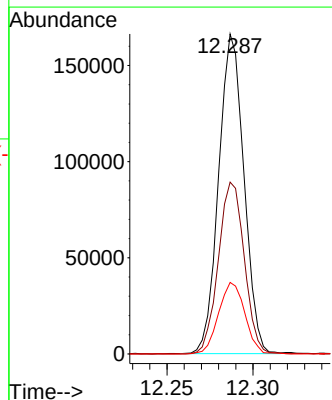
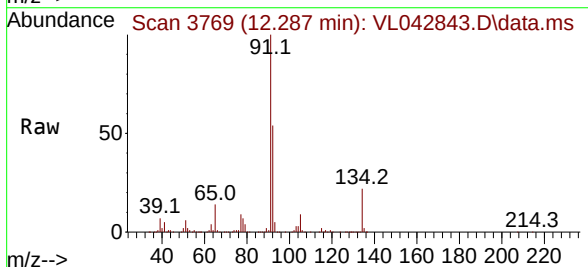
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MSVOA\_1  
ClientSampleId :  
VSTDICC002

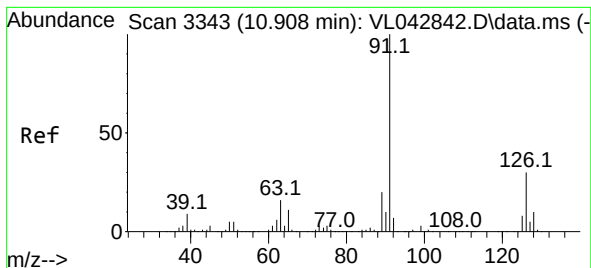
Tgt Ion:119 Resp: 169429  
Ion Ratio Lower Upper  
119 100  
134 25.3 20.6 30.8  
91 27.4 22.6 34.0



#70  
n-Butylbenzene  
Concen: 2.178 ppbv  
RT: 12.287 min Scan# 3769  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 91 Resp: 169768  
Ion Ratio Lower Upper  
91 100  
92 55.4 44.6 66.8  
134 23.3 19.0 28.4

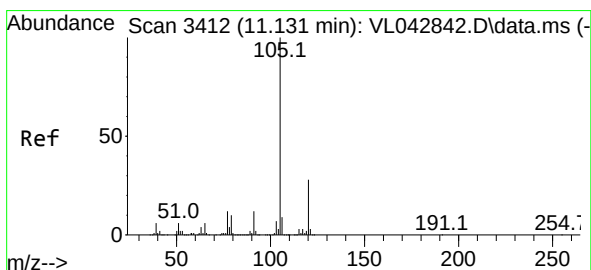
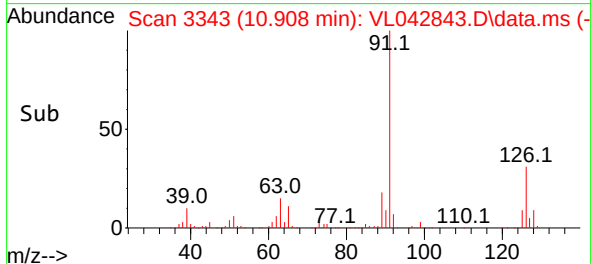
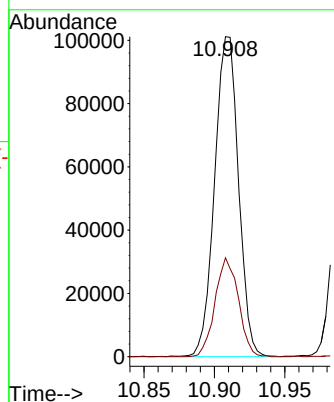
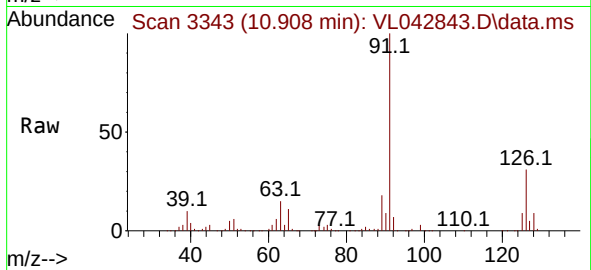




#71  
2-Chlorotoluene  
Concen: 2.078 ppbv  
RT: 10.908 min Scan# 311  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

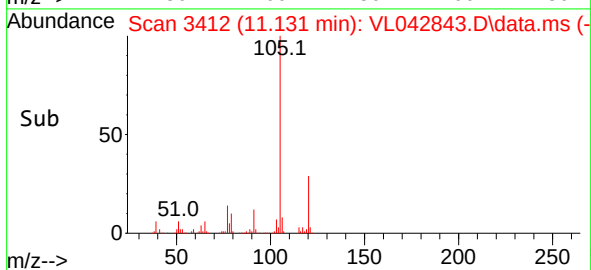
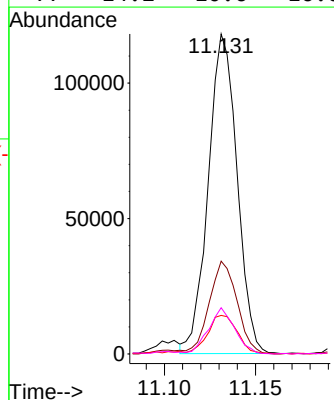
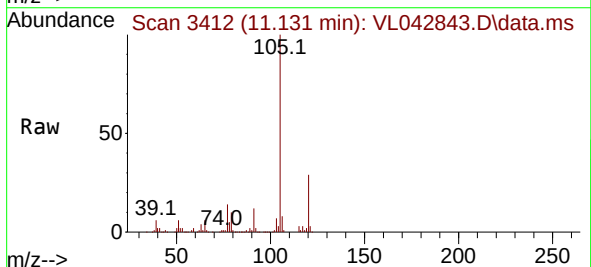
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MSVOA\_1  
ClientSampleId :  
VSTDICC002

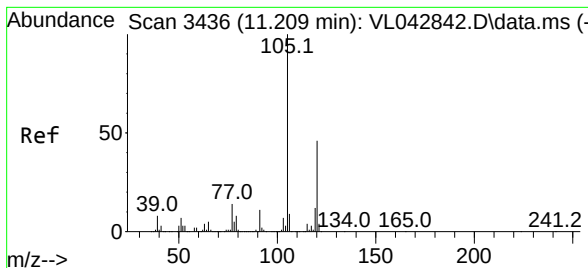
Tgt Ion: 91 Resp: 119382  
Ion Ratio Lower Upper  
91 100  
126 30.2 12.0 47.8



#72  
4-Ethyltoluene  
Concen: 2.115 ppbv  
RT: 11.131 min Scan# 3412  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion: 105 Resp: 129786  
Ion Ratio Lower Upper  
105 100  
120 29.4 23.4 35.2  
91 13.3 9.8 14.6  
77 14.2 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 2.109 ppbv

RT: 11.212 min Scan# 3437

Delta R.T. 0.003 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Instrument :

MSVOA\_1

ClientSampleId :

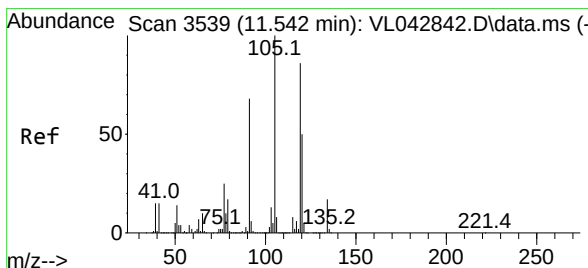
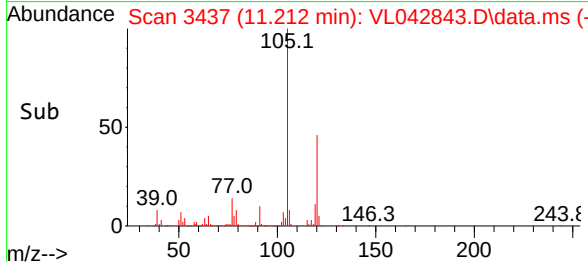
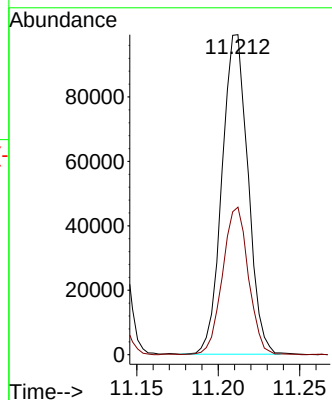
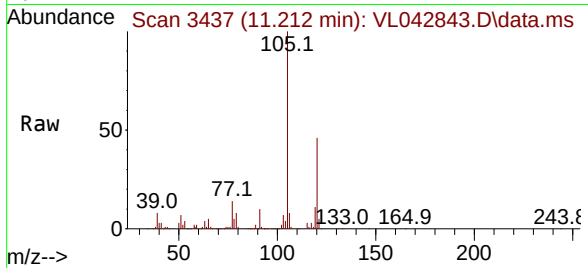
VSTDIC002

Tgt Ion:105 Resp: 110043

Ion Ratio Lower Upper

105 100

120 46.1 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 2.157 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042843.D

Acq: 13 Aug 2025 09:06

Tgt Ion:105 Resp: 123554

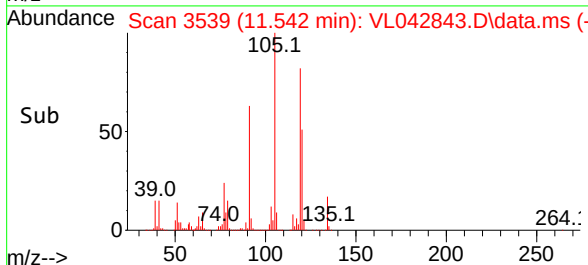
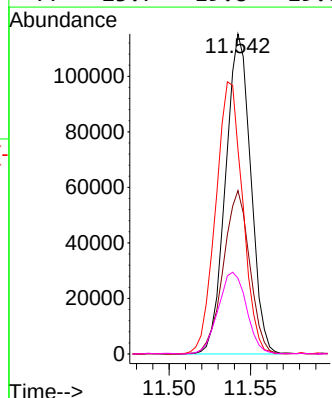
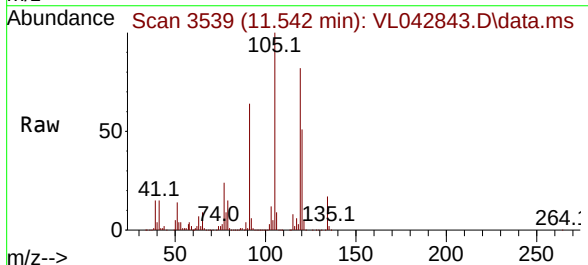
Ion Ratio Lower Upper

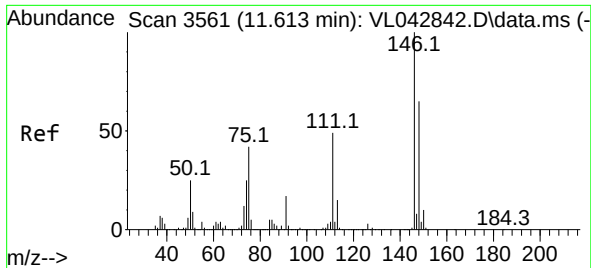
105 100

120 51.0 39.8 59.6

91 63.9 54.2 81.4

77 23.7 19.8 29.6

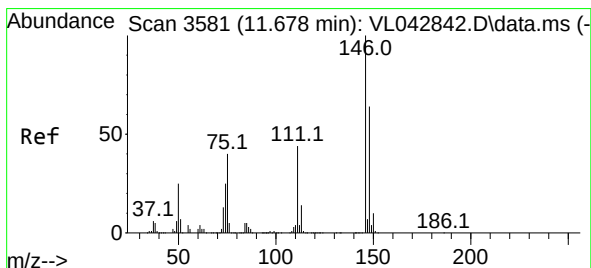
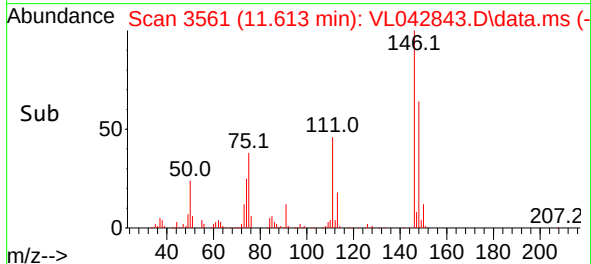
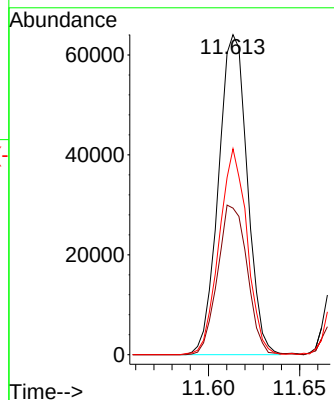
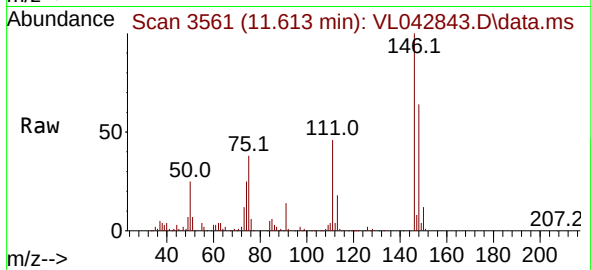




#75  
1,3-Dichlorobenzene  
Concen: 2.160 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

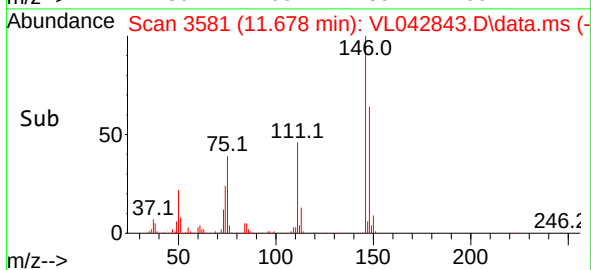
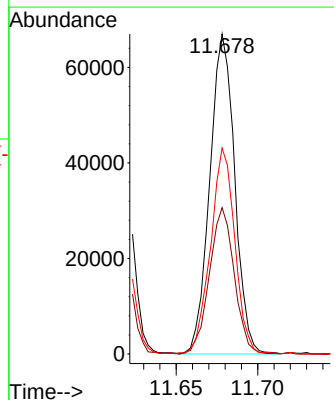
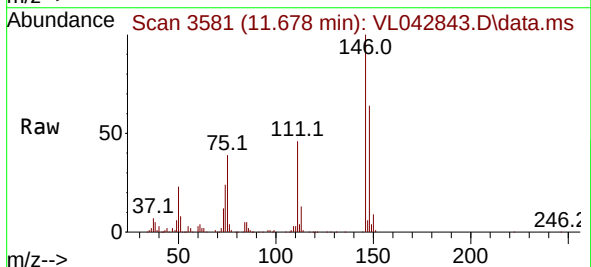
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

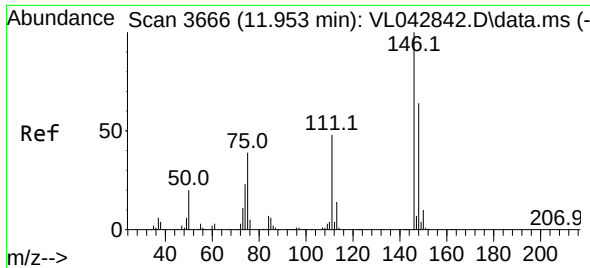
Tgt Ion:146 Resp: 70330  
Ion Ratio Lower Upper  
146 100  
111 48.0 23.9 71.7  
148 62.5 31.4 94.0



#76  
1,4-Dichlorobenzene  
Concen: 2.161 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion:146 Resp: 71160  
Ion Ratio Lower Upper  
146 100  
111 45.7 22.7 68.1  
148 62.9 31.8 95.3

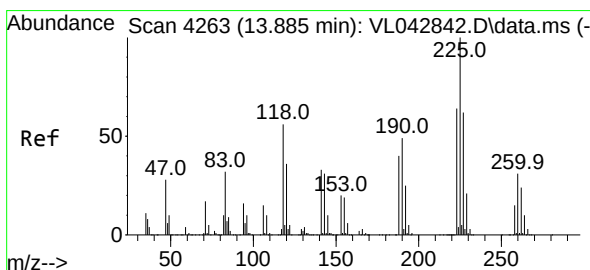
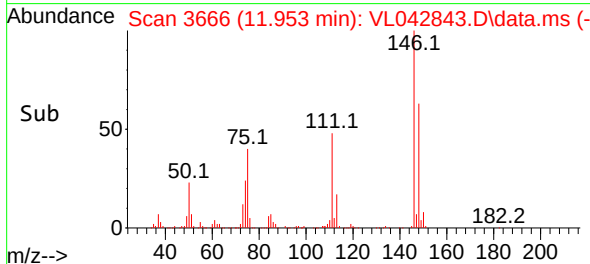
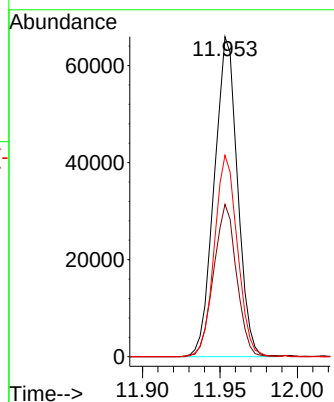
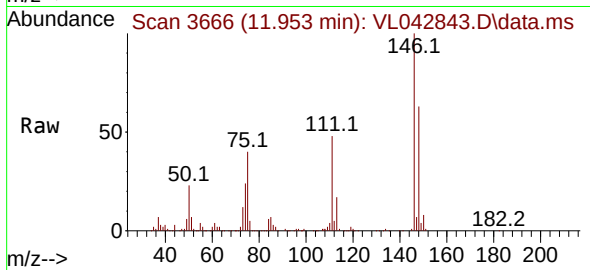




#77  
1,2-Dichlorobenzene  
Concen: 2.162 ppbv  
RT: 11.953 min Scan# 3666  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

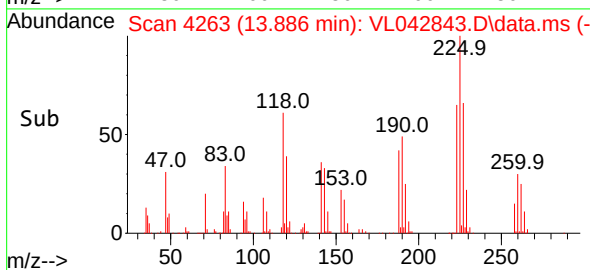
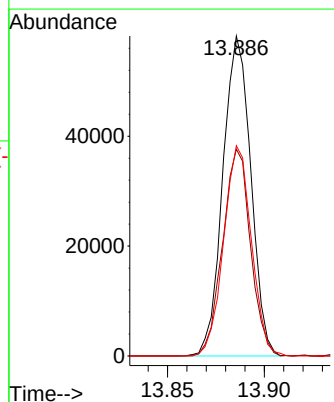
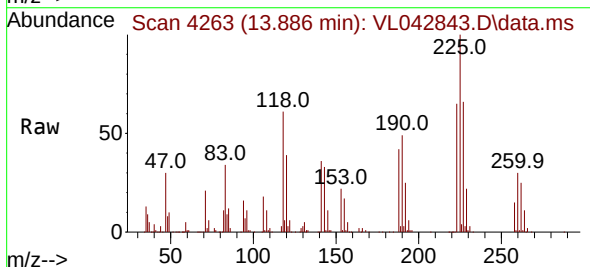
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC002

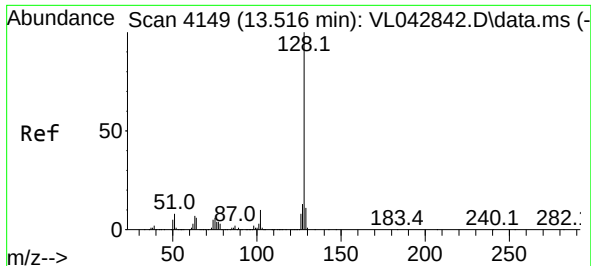
Tgt Ion:146 Resp: 68944  
Ion Ratio Lower Upper  
146 100  
111 47.1 24.6 74.0  
148 62.5 32.0 96.0



#78  
Hexachloro-1,3-Butadiene  
Concen: 2.239 ppbv  
RT: 13.886 min Scan# 4263  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

Tgt Ion:225 Resp: 58509  
Ion Ratio Lower Upper  
225 100  
223 64.5 51.4 77.2  
227 65.2 51.9 77.9

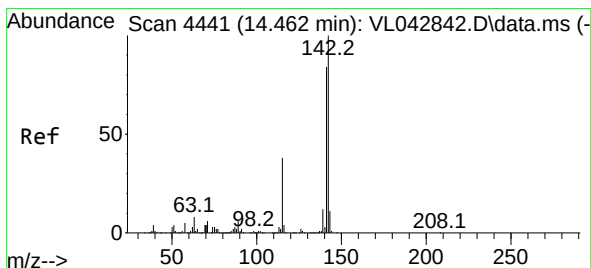
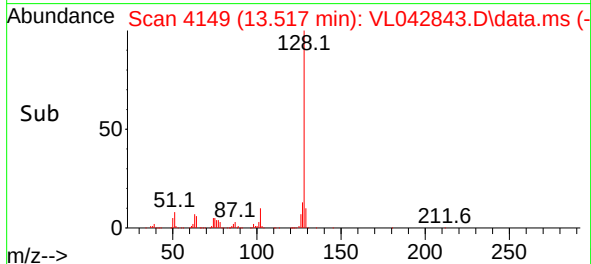
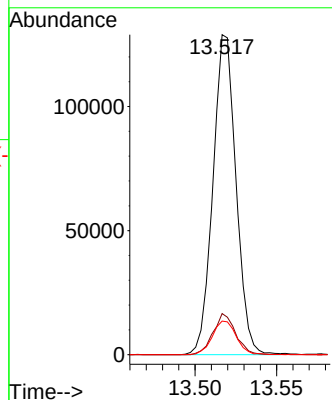
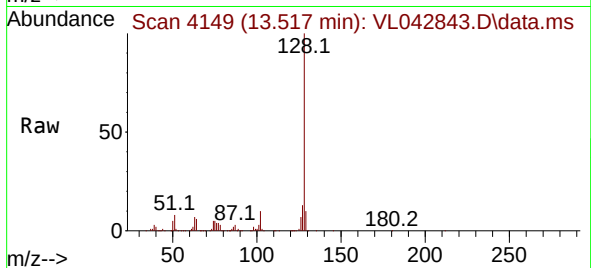




#79  
Naphthalene  
Concen: 2.478 ppbv  
RT: 13.517 min Scan# 4149  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

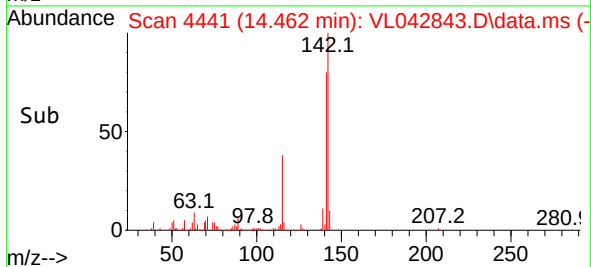
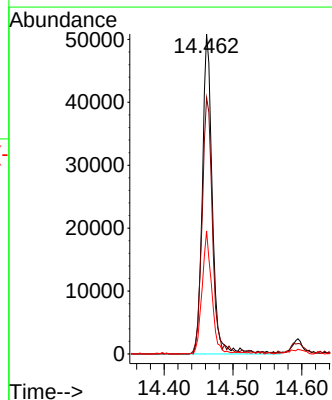
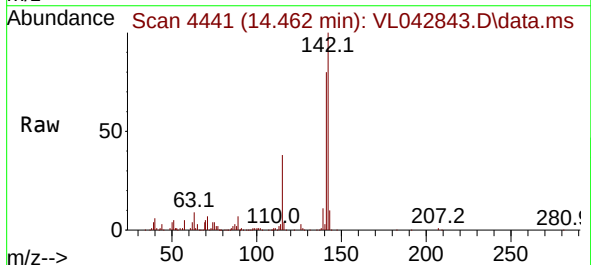
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC002

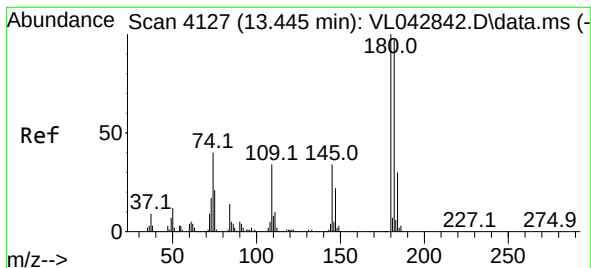
Tgt Ion:128 Resp: 127025  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.6 16.0  
129 10.5 8.9 13.3



#80  
Naphthalene,2-methyl-  
Concen: 2.670 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.000 min  
Lab File: VL042843.D  
Acq: 13 Aug 2025 09:06

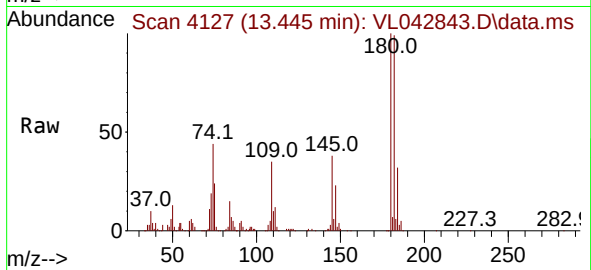
Tgt Ion:142 Resp: 51541  
Ion Ratio Lower Upper  
142 100  
141 83.9 67.0 100.6  
115 37.8 30.9 46.3



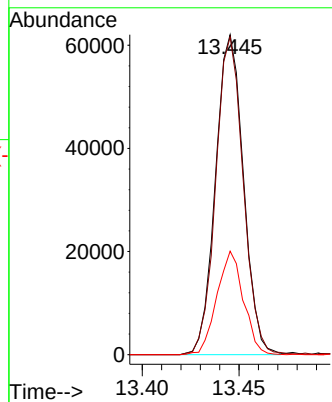
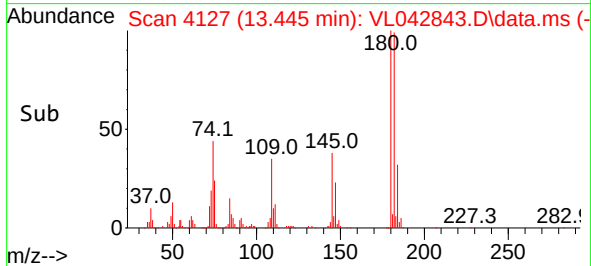


#81  
 1,2,4-Trichlorobenzene  
 Concen: 2.384 ppbv  
 RT: 13.445 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VL042843.D  
 Acq: 13 Aug 2025 09:06

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC002



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 180   | Resp: | 62216 |
| Ion Ratio | Lower | Upper |       |
| 180       | 100   |       |       |
| 182       | 98.0  | 76.9  | 115.3 |
| 184       | 30.8  | 24.5  | 36.7  |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042844.D  
 Acq On : 13 Aug 2025 09:41  
 Operator : SY/MD  
 Sample : VSTDIC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

Quant Time: Aug 14 01:47:28 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.791 | 49   | 128542   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 400305   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 349577   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| 68) 1-Bromo-4-Fluorobenzene | 10.380 | 95    | 265708   | 10.135   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 101.300% |

| Target Compounds              |       |     |       |       | Qvalue |     |
|-------------------------------|-------|-----|-------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 19603 | 1.041 | ppbv   | 99  |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 20833 | 0.999 | ppbv   | 93  |
| 4) Chloromethane              | 1.535 | 50  | 7948  | 1.045 | ppbv   | 96  |
| 5) Vinyl Chloride             | 1.583 | 62  | 7189  | 0.960 | ppbv   | 96  |
| 6) Bromomethane               | 1.667 | 94  | 3446  | 1.151 | ppbv   | 84  |
| 7) Chloroethane               | 1.706 | 64  | 3089  | 1.056 | ppbv   | 93  |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 15872 | 1.030 | ppbv   | 100 |
| 9) Propene                    | 1.486 | 41  | 8897  | 0.989 | ppbv   | 89  |
| 10) Heptane                   | 4.991 | 43  | 10068 | 0.419 | ppbv # | 1   |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 19701 | 1.060 | ppbv   | 96  |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 15446 | 1.043 | ppbv   | 97  |
| 13) Ethanol                   | 1.722 | 45  | 1519  | 1.705 | ppbv   | 85  |
| 14) Bromoethene               | 1.784 | 108 | 5343  | 0.996 | ppbv # | 78  |
| 15) Acetone                   | 1.839 | 43  | 18961 | 1.115 | ppbv   | 98  |
| 16) 1,3-Butadiene             | 1.609 | 39  | 8133  | 1.055 | ppbv   | 98  |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 21342 | 1.058 | ppbv # | 93  |
| 18) 1,1-Dichloroethene        | 2.040 | 96  | 6549  | 1.006 | ppbv   | 93  |
| 19) Isopropyl Alcohol         | 1.888 | 45  | 10893 | 1.073 | ppbv # | 39  |
| 20) Methylene Chloride        | 2.062 | 84  | 7661  | 1.076 | ppbv # | 90  |
| 21) Allyl Chloride            | 2.098 | 41  | 11598 | 0.966 | ppbv   | 88  |
| 22) trans-1,2-Dichloroethene  | 2.040 | 96  | 6629  | 0.910 | ppbv   | 84  |
| 23) Vinyl Acetate             | 2.467 | 43  | 22270 | 0.996 | ppbv # | 96  |
| 24) 1,1-Dichloroethane        | 2.412 | 63  | 15727 | 1.045 | ppbv   | 98  |
| 25) Ethyl Acetate             | 2.842 | 43  | 43007 | 1.045 | ppbv   | 98  |
| 26) Hexane                    | 2.829 | 57  | 19944 | 1.050 | ppbv   | 92  |
| 27) Carbon Disulfide          | 2.153 | 76  | 19450 | 1.052 | ppbv # | 2   |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 9600  | 0.991 | ppbv # | 88  |
| 29) Chloroform                | 2.852 | 83  | 28055 | 1.034 | ppbv   | 97  |
| 30) Cyclohexane               | 3.865 | 84  | 16492 | 0.990 | ppbv   | 90  |
| 31) cis-1,2-Dichloroethene    | 2.723 | 61  | 19591 | 1.031 | ppbv   | 98  |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 27607 | 0.961 | ppbv   | 97  |
| 34) 2-Butanone                | 2.564 | 43  | 28105 | 1.040 | ppbv   | 98  |
| 35) Carbon Tetrachloride      | 3.768 | 117 | 28008 | 1.015 | ppbv   | 93  |
| 36) Benzene                   | 3.661 | 78  | 39137 | 1.021 | ppbv # | 94  |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 20645 | 1.031 | ppbv   | 97  |
| 38) Trichloroethene           | 4.555 | 130 | 17921 | 1.024 | ppbv # | 89  |
| 39) 1,2-Dichloropropane       | 4.325 | 63  | 6572  | 0.469 | ppbv # | 85  |
| 40) 1,4-Dioxane               | 4.603 | 88  | 3925  | 0.599 | ppbv # | 25  |
| 41) Tetrahydrofuran           | 3.062 | 42  | 15552 | 1.032 | ppbv   | 94  |
| 42) Bromodichloromethane      | 4.499 | 83  | 29683 | 0.995 | ppbv   | 99  |
| 43) Methyl Methacrylate       | 4.898 | 69  | 5494  | 0.349 | ppbv # | 1   |
| 44) 2,2,4-Trimethylpentane    | 4.645 | 57  | 64930 | 1.009 | ppbv   | 96  |
| 45) t-1,3-Dichloropropene     | 6.429 | 75  | 7736  | 0.434 | ppbv   | 96  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042844.D  
 Acq On : 13 Aug 2025 09:41  
 Operator : SY/MD  
 Sample : VSTDICC001  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

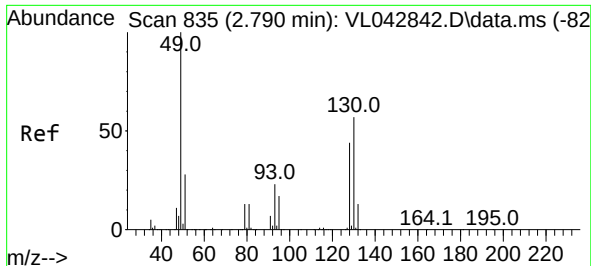
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC001

Quant Time: Aug 14 01:47:28 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.610  | 75   | 22372    | 0.999 | ppbv   | 94       |
| 47) 1,1,2-Trichloroethane     | 6.597  | 97   | 15295    | 1.032 | ppbv   | 86       |
| 48) Dibromochloromethane      | 7.396  | 129  | 24214    | 1.009 | ppbv   | 99       |
| 49) Bromoform                 | 9.490  | 173  | 20579    | 1.040 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.768  | 43   | 36710    | 1.001 | ppbv   | 98       |
| 51) 2-Hexanone                | 7.451  | 43   | 29487    | 1.026 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.235  | 164  | 13322    | 0.960 | ppbv   | 90       |
| 53) Toluene                   | 6.946  | 91   | 47256    | 1.036 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 21280    | 0.982 | ppbv   | 99       |
| 56) 1,1,1,2-Tetrachloroethane | 8.930  | 131  | 19176    | 1.061 | ppbv   | 96       |
| 57) Chlorobenzene             | 8.930  | 112  | 34617    | 1.041 | ppbv # | 91       |
| 58) Ethyl Benzene             | 9.361  | 91   | 65223    | 1.057 | ppbv   | 95       |
| 59) m/p-Xylene                | 9.539  | 91   | 53658    | 1.108 | ppbv # | 100      |
| 60) o-Xylene                  | 9.969  | 91   | 51445    | 1.058 | ppbv   | 99       |
| 61) Styrene                   | 9.879  | 104  | 23660    | 1.038 | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.546 | 105  | 76708    | 1.079 | ppbv   | 100      |
| 63) 1,1,2,2-Tetrachloroethane | 9.969  | 83   | 27410    | 1.032 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.995 | 120  | 18462    | 1.018 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.536 | 119  | 69617    | 1.111 | ppbv   | 99       |
| 66) Benzyl Chloride           | 11.617 | 91   | 7900     | 0.993 | ppbv   | 98       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 96288    | 1.095 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 82934    | 1.098 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.287 | 91   | 80511    | 1.075 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 60086    | 1.089 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 63147    | 1.071 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.206 | 105  | 53676    | 1.070 | ppbv   | 95       |
| 74) 1,2,4-Trimethylbenzene    | 11.539 | 105  | 59633    | 1.083 | ppbv   | 96       |
| 75) 1,3-Dichlorobenzene       | 11.610 | 146  | 33061    | 1.057 | ppbv   | 98       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 33064    | 1.045 | ppbv   | 96       |
| 77) 1,2-Dichlorobenzene       | 11.950 | 146  | 33404    | 1.090 | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 29555    | 1.177 | ppbv   | 95       |
| 79) Naphthalene               | 13.517 | 128  | 57580    | 1.169 | ppbv   | 97       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 19375    | 1.045 | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 27861    | 1.111 | ppbv   | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

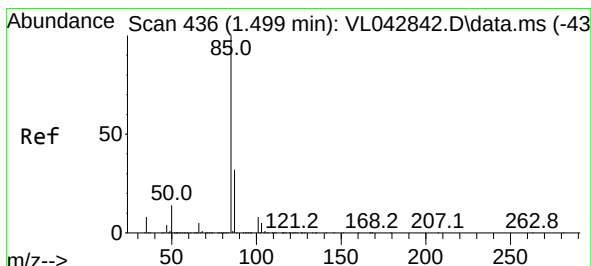
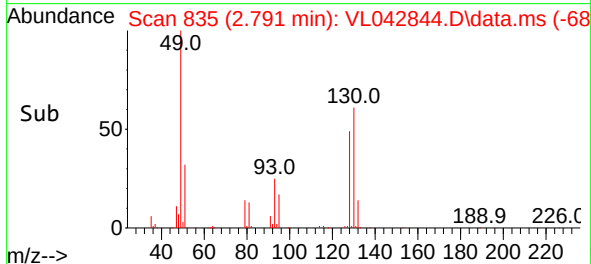
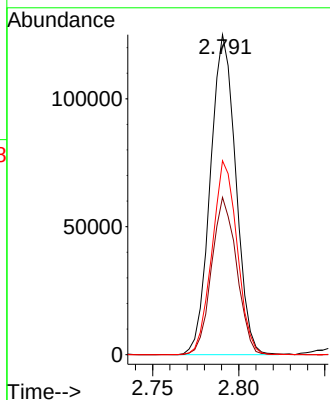
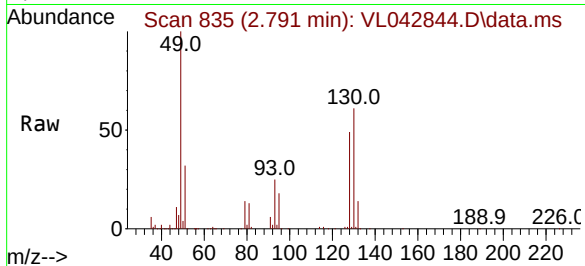
- 1
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#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.791 min Scan# 835  
Delta R.T. 0.001 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

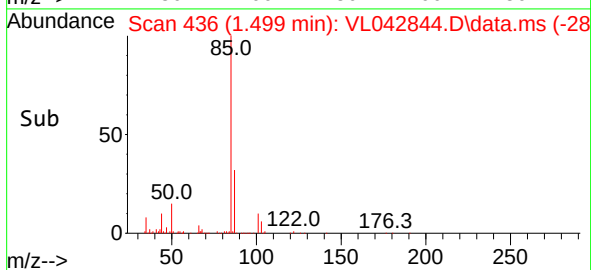
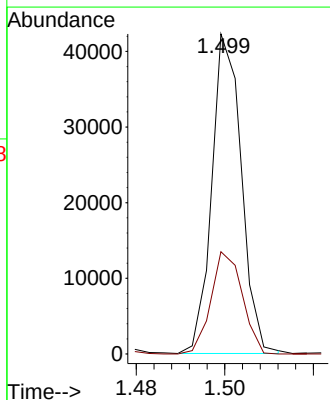
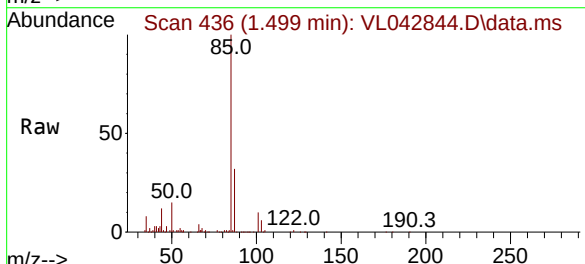
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

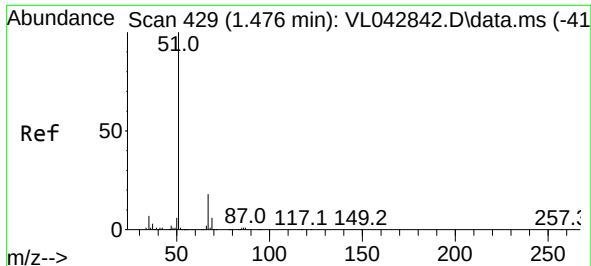
Tgt Ion: 49 Resp: 128542  
Ion Ratio Lower Upper  
49 100  
128 48.4 23.7 71.1  
130 59.9 30.6 91.6



#2  
Dichlorodifluoromethane  
Concen: 1.041 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 19603  
Ion Ratio Lower Upper  
85 100  
87 32.0 25.3 37.9

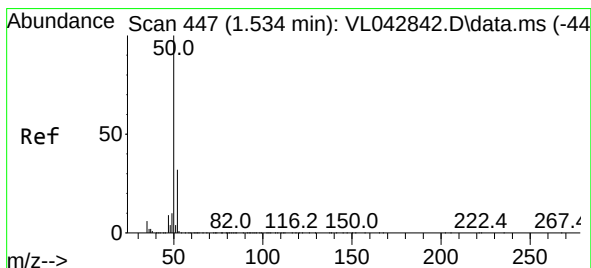
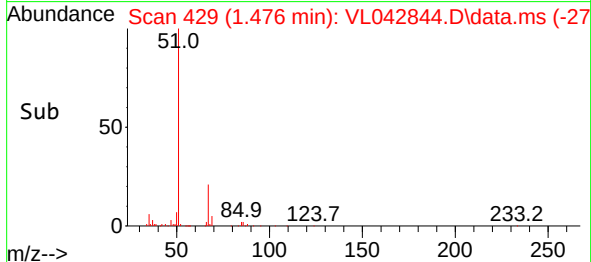
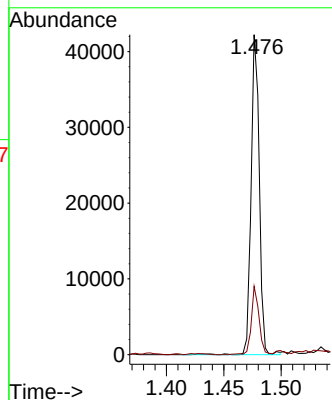
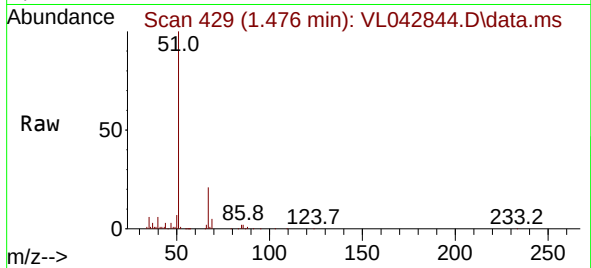




#3  
Chlorodifluoromethane  
Concen: 0.999 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

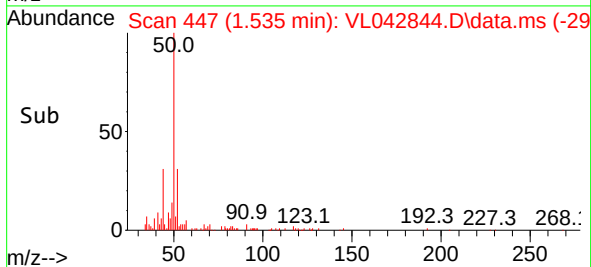
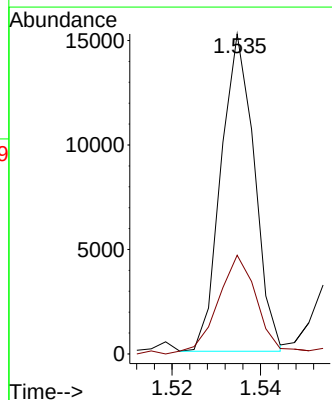
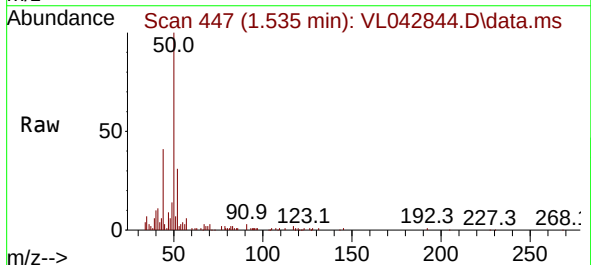
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

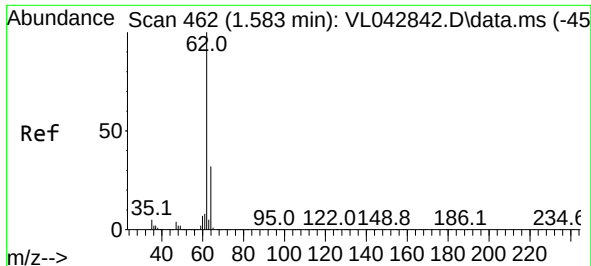
Tgt Ion: 51 Resp: 20833  
Ion Ratio Lower Upper  
51 100  
67 21.9 14.9 22.3



#4  
Chloromethane  
Concen: 1.045 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 50 Resp: 7948  
Ion Ratio Lower Upper  
50 100  
52 30.2 25.9 38.9

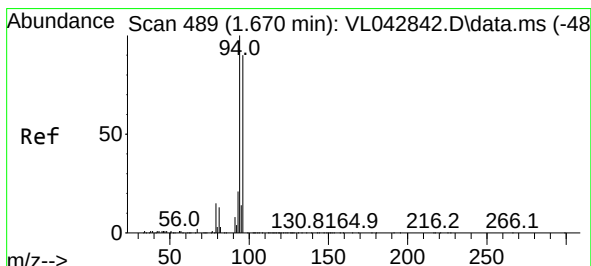
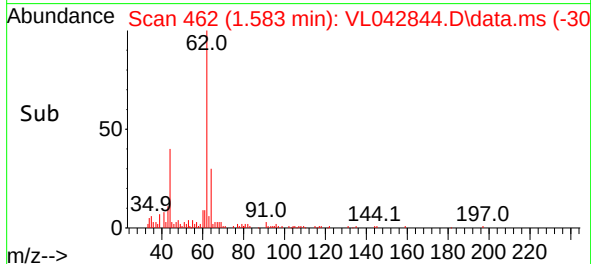
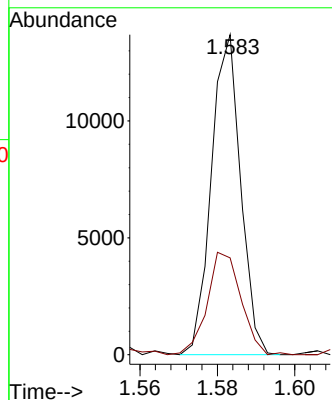
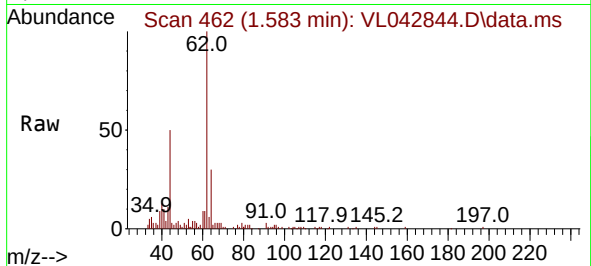




#5  
Vinyl Chloride  
Concen: 0.960 ppbv  
RT: 1.583 min Scan# 462  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

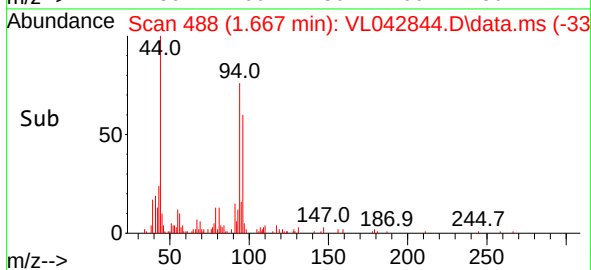
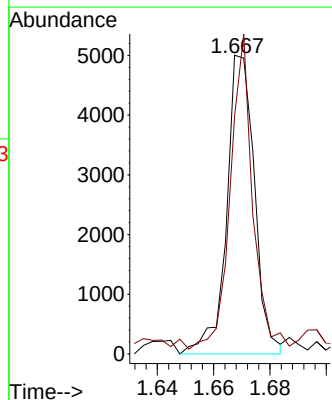
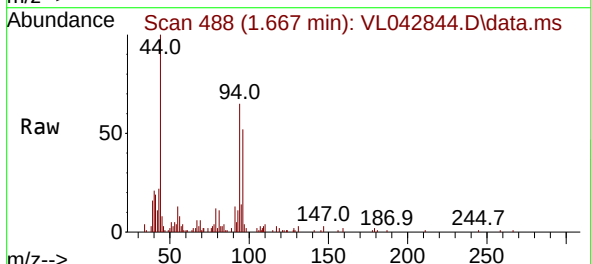
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

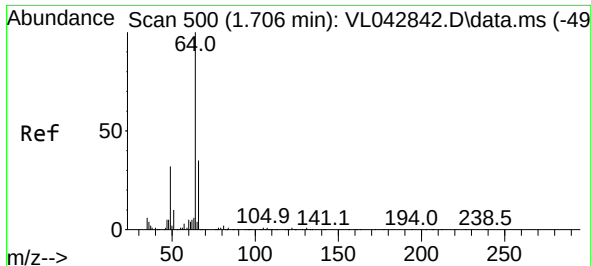
Tgt Ion: 62 Resp: 7189  
Ion Ratio Lower Upper  
62 100  
64 29.7 25.4 38.2



#6  
Bromomethane  
Concen: 1.151 ppbv  
RT: 1.667 min Scan# 488  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 94 Resp: 3446  
Ion Ratio Lower Upper  
94 100  
96 74.7 72.1 108.1

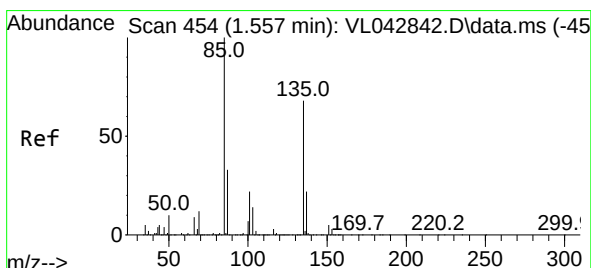
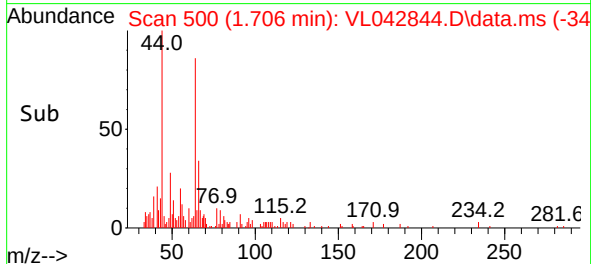
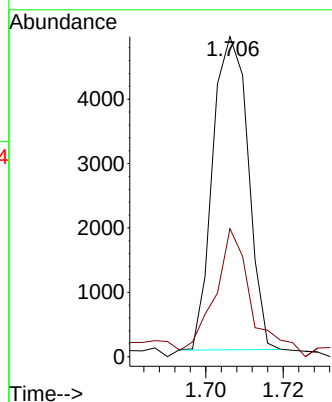
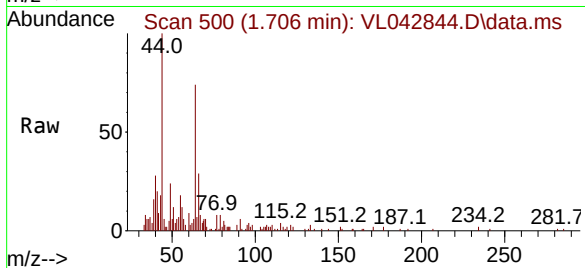




#7  
Chloroethane  
Concen: 1.056 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

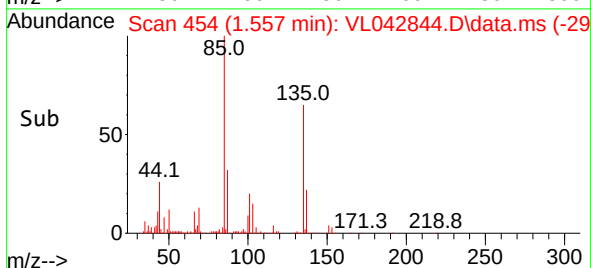
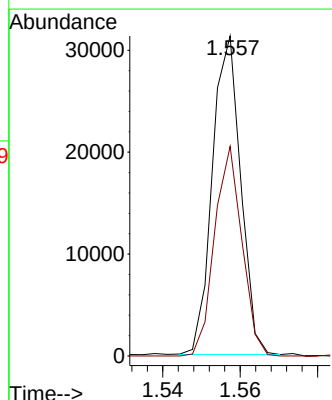
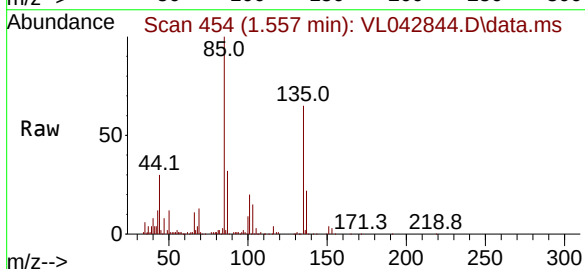
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

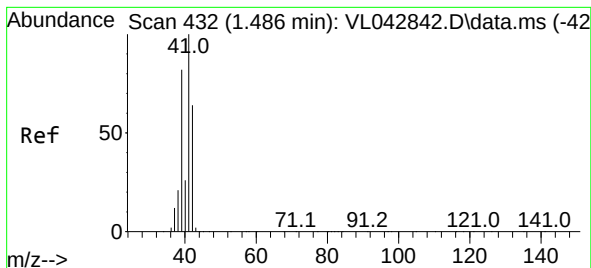
Tgt Ion: 64 Resp: 3089  
Ion Ratio Lower Upper  
64 100  
66 40.0 28.6 42.8



#8  
Dichlorotetrafluoroethane  
Concen: 1.030 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 85 Resp: 15872  
Ion Ratio Lower Upper  
85 100  
135 63.7 51.2 76.8





#9

Propene

Concen: 0.989 ppbv

RT: 1.486 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

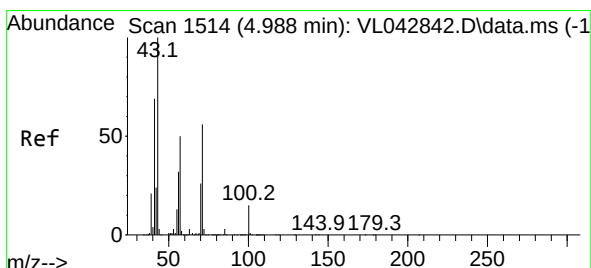
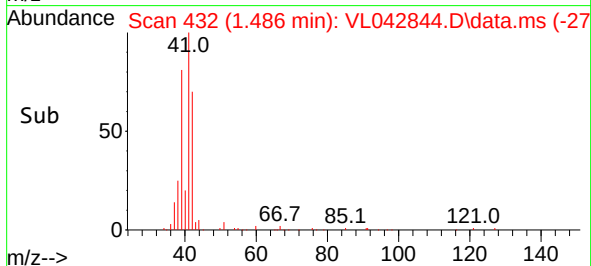
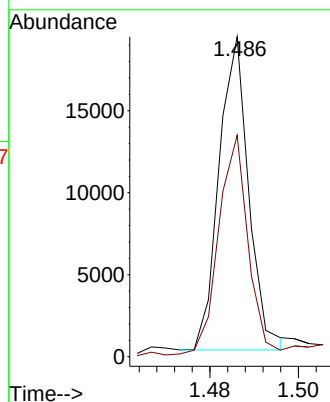
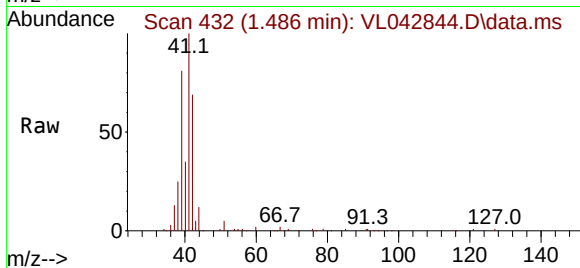
VSTDICC001

Tgt Ion: 41 Resp: 8897

Ion Ratio Lower Upper

41 100

42 74.9 53.0 79.4



#10

Heptane

Concen: 0.419 ppbv

RT: 4.991 min Scan# 1515

Delta R.T. 0.004 min

Lab File: VL042844.D

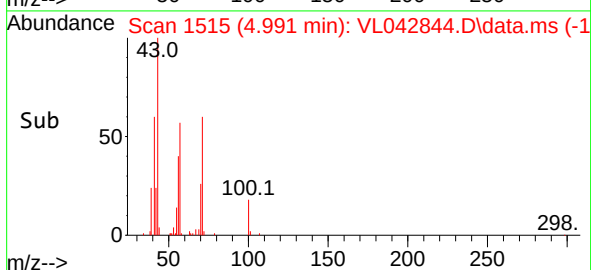
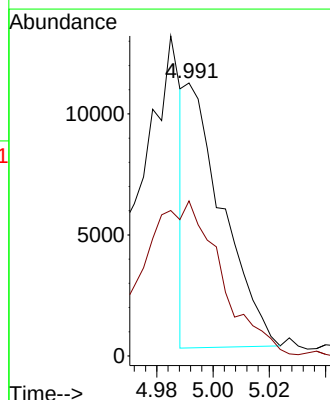
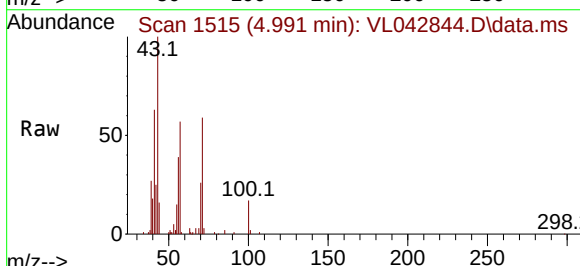
Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 10068

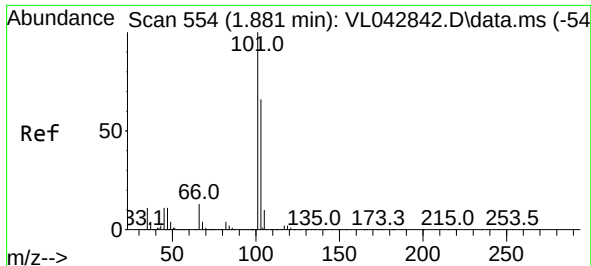
Ion Ratio Lower Upper

43 100

57 133.5 41.4 62.0#



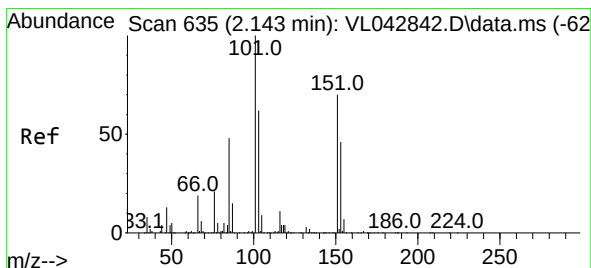
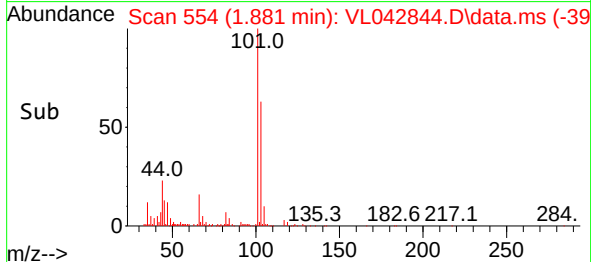
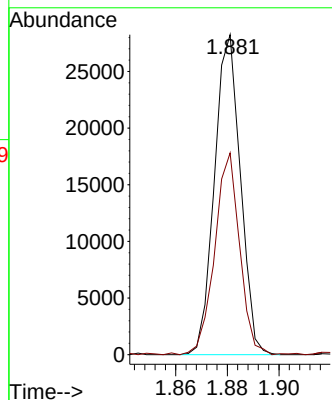
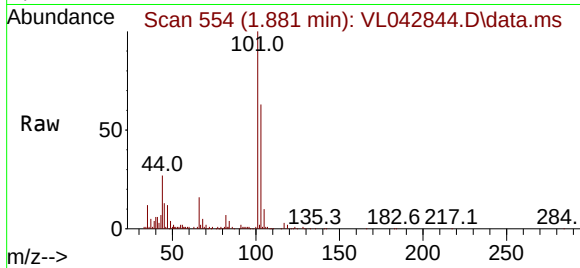




#11  
 Trichlorofluoromethane  
 Concen: 1.060 ppbv  
 RT: 1.881 min Scan# 511  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

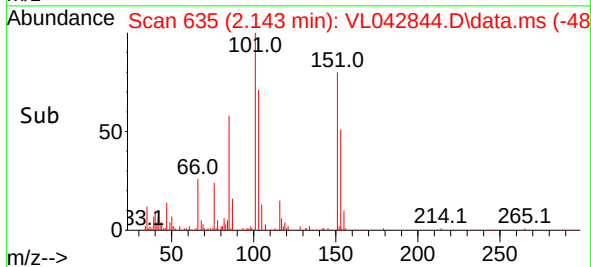
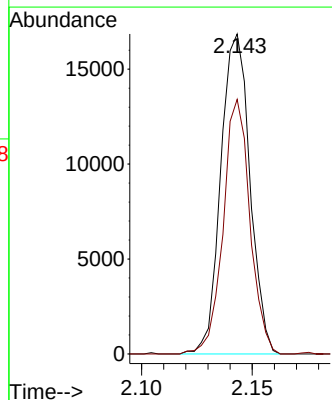
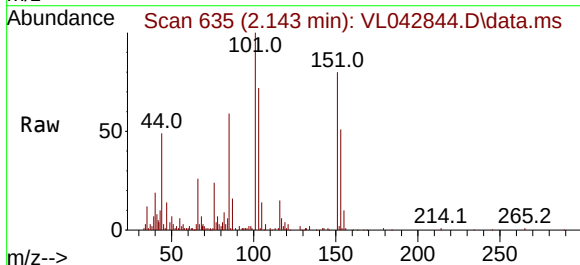
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

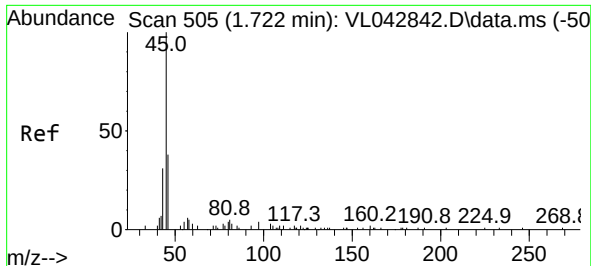
Tgt Ion:101 Resp: 19701  
 Ion Ratio Lower Upper  
 101 100  
 103 62.8 52.5 78.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 1.043 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

Tgt Ion:101 Resp: 15446  
 Ion Ratio Lower Upper  
 101 100  
 151 73.2 56.4 84.6

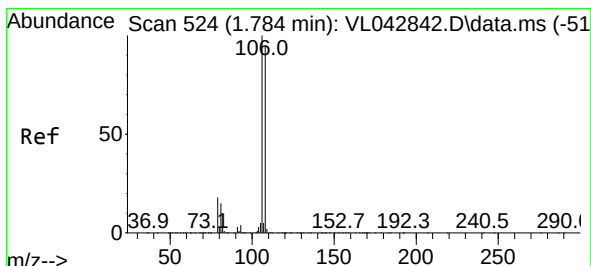
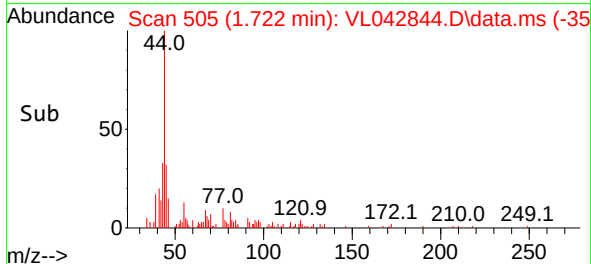
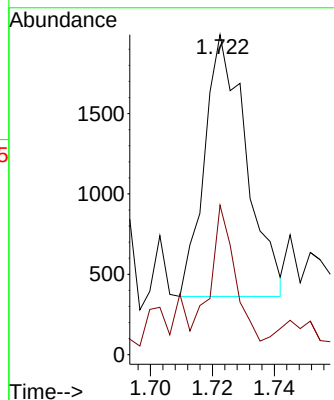
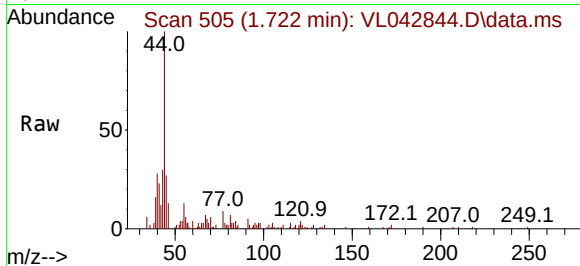




#13  
Ethanol  
Concen: 1.705 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

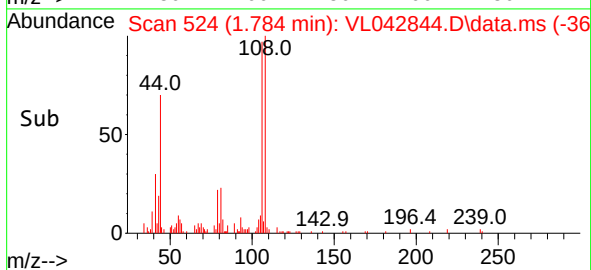
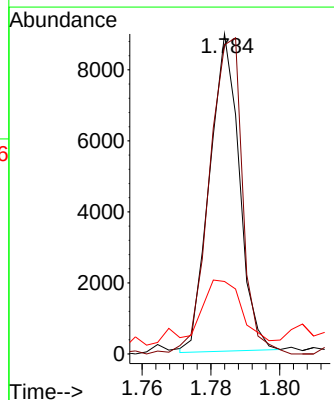
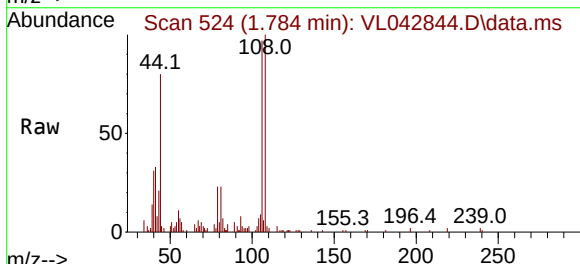
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

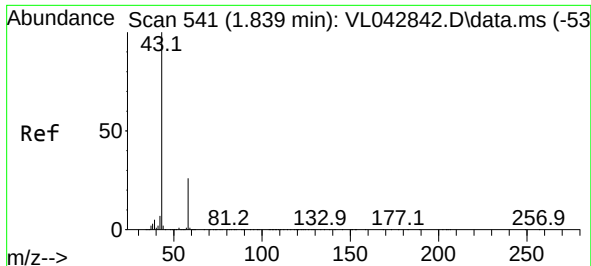
Tgt Ion: 45 Resp: 1519  
Ion Ratio Lower Upper  
45 100  
46 53.5 17.5 69.9



#14  
Bromoethene  
Concen: 0.996 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 108 Resp: 5343  
Ion Ratio Lower Upper  
108 100  
106 117.1 85.1 127.7  
79 58.9 16.3 24.5#

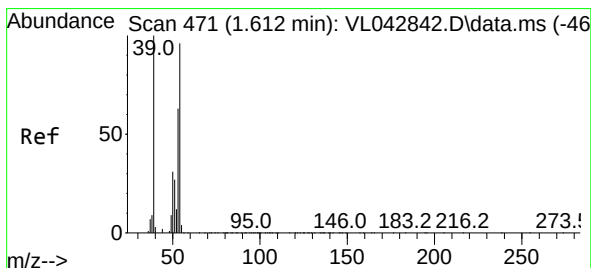
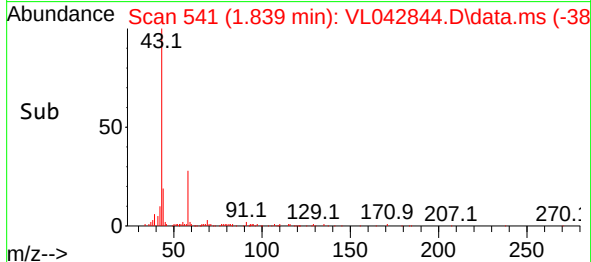
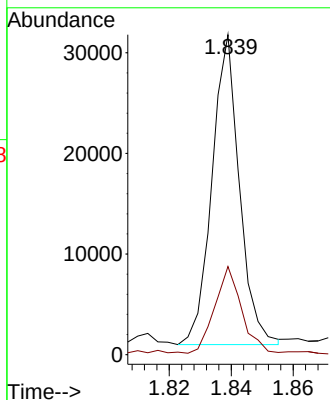
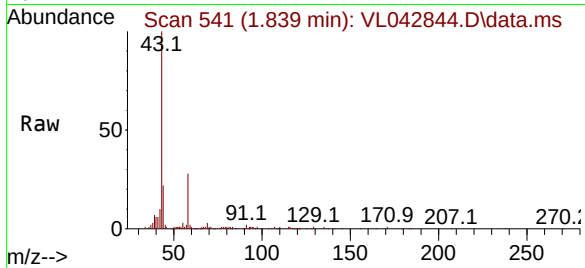




#15  
Acetone  
Concen: 1.115 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

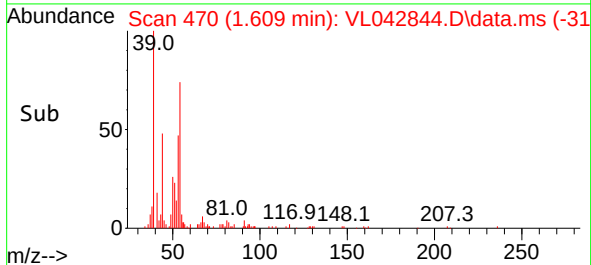
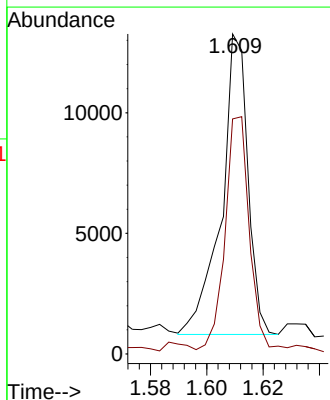
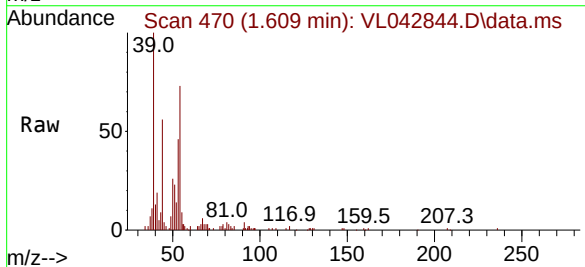
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

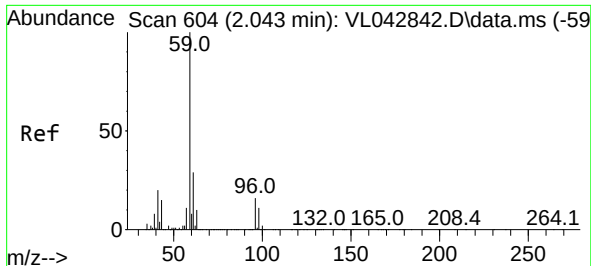
Tgt Ion: 43 Resp: 18961  
Ion Ratio Lower Upper  
43 100  
58 29.1 22.4 33.6



#16  
1,3-Butadiene  
Concen: 1.055 ppbv  
RT: 1.609 min Scan# 470  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 39 Resp: 8133  
Ion Ratio Lower Upper  
39 100  
54 78.0 63.6 95.4





#17

tert-Butyl alcohol

Concen: 1.058 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

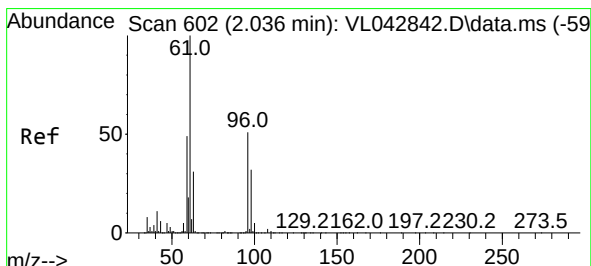
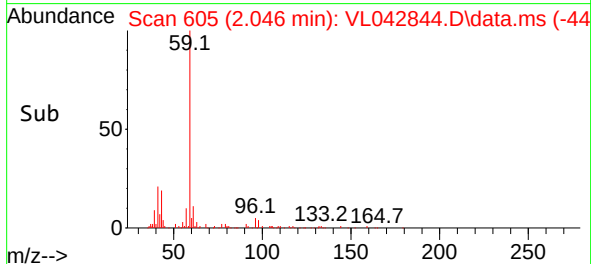
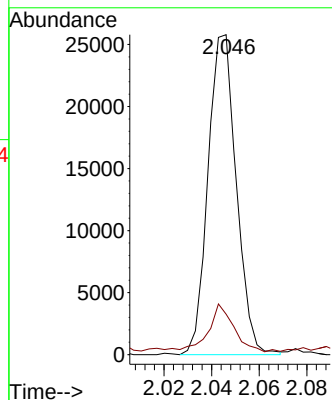
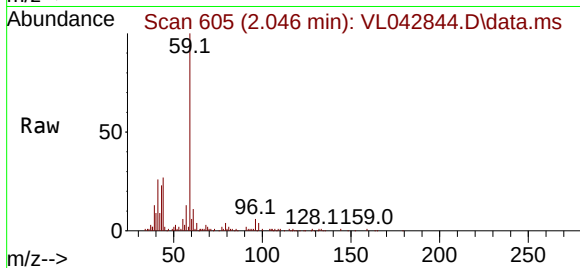
VSTDIC001

Tgt Ion: 59 Resp: 21342

Ion Ratio Lower Upper

59 100

57 13.7 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 1.006 ppbv

RT: 2.040 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

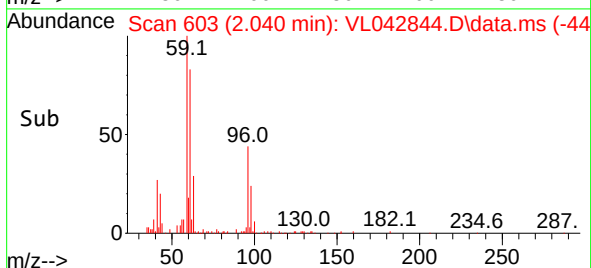
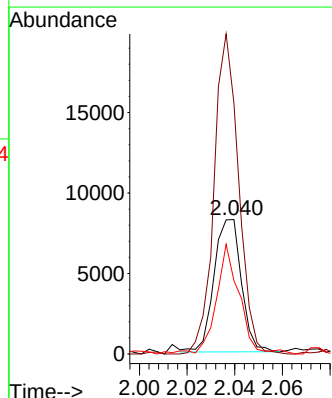
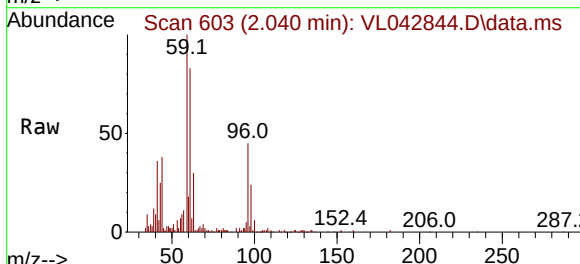
Tgt Ion: 96 Resp: 6549

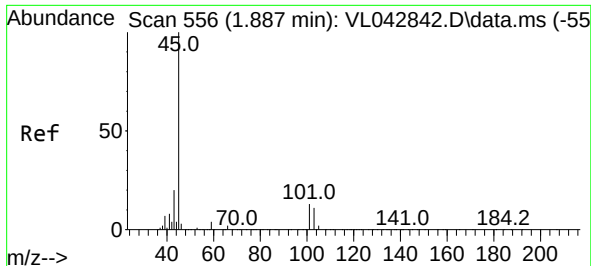
Ion Ratio Lower Upper

96 100

61 189.6 158.2 237.4

98 53.1 50.6 76.0

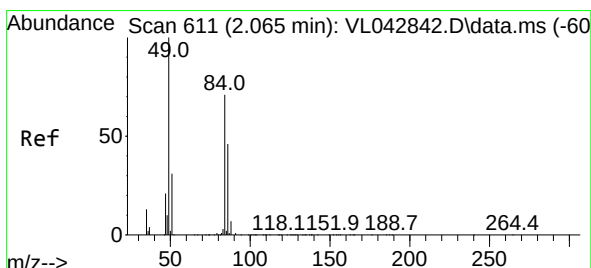
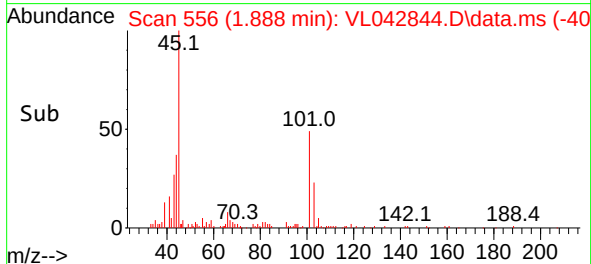
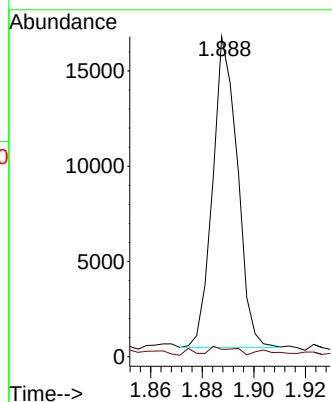
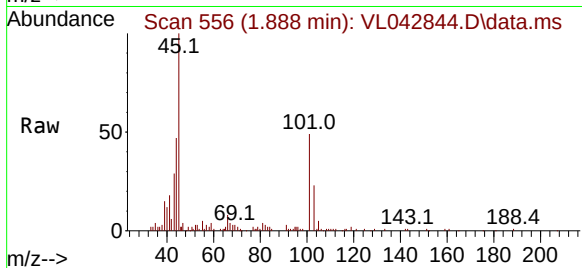




#19  
Isopropyl Alcohol  
Concen: 1.073 ppbv  
RT: 1.888 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

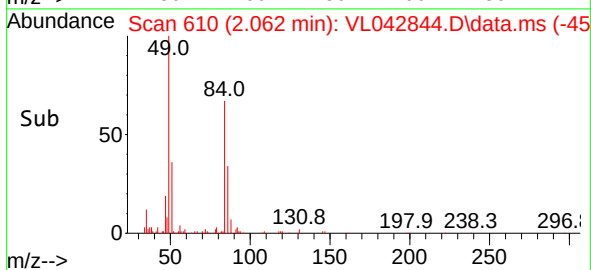
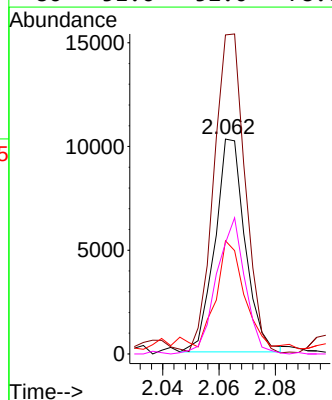
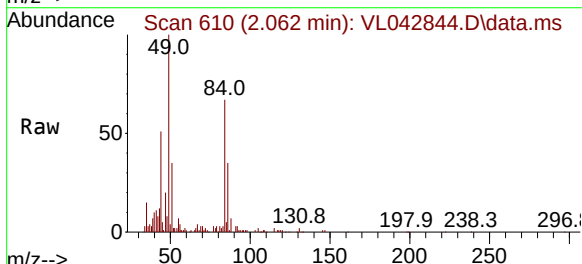
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC001

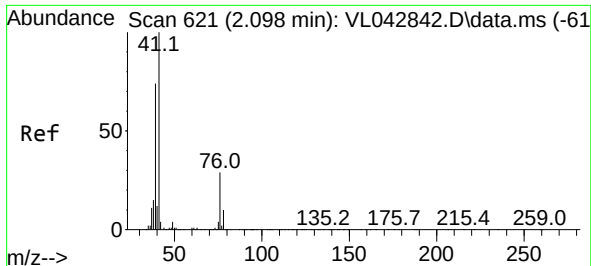
Tgt Ion: 45 Resp: 10893  
Ion Ratio Lower Upper  
45 100  
58 2.9 32.7 49.1#



#20  
Methylene Chloride  
Concen: 1.076 ppbv  
RT: 2.062 min Scan# 610  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 84 Resp: 7661  
Ion Ratio Lower Upper  
84 100  
49 149.4 112.3 168.5  
51 49.2 36.0 54.0  
86 51.6 52.0 78.0#

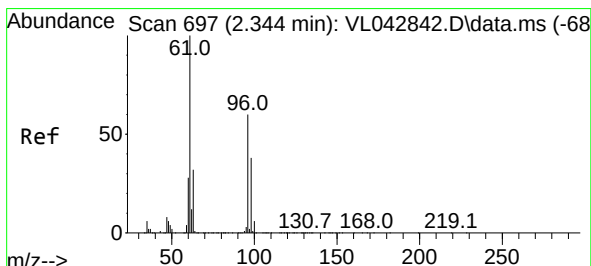
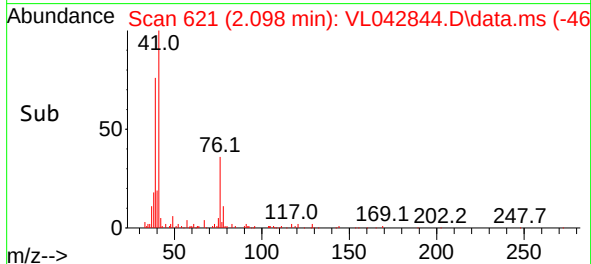
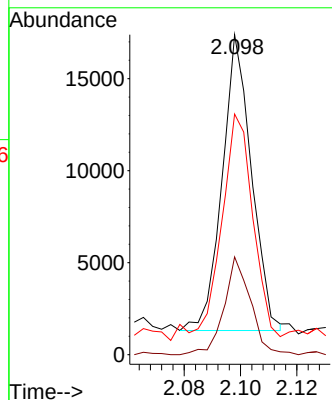
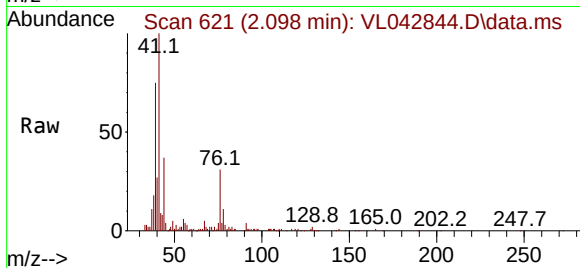




#21  
 Allyl Chloride  
 Concen: 0.966 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

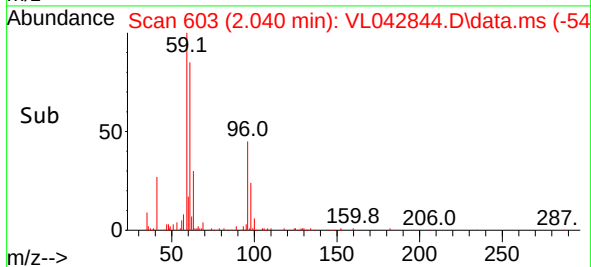
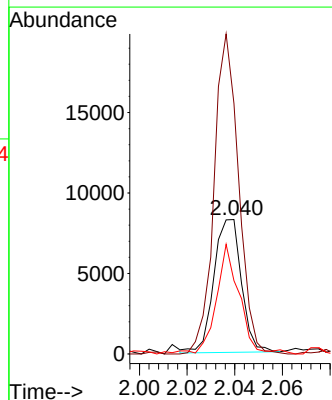
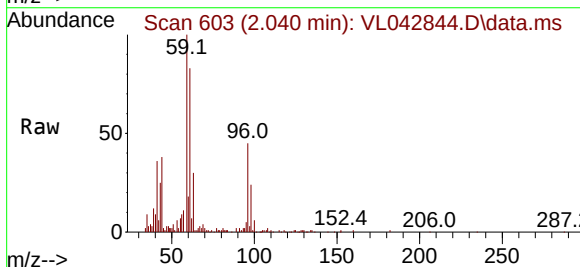
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

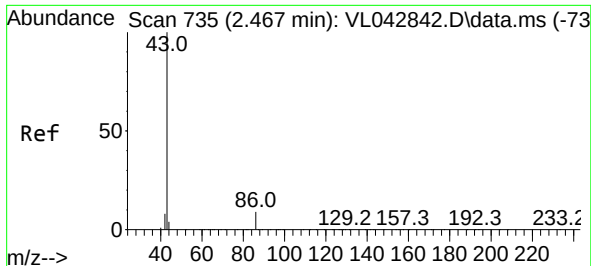
|             |                |
|-------------|----------------|
| Tgt Ion: 41 | Resp: 11598    |
| Ion Ratio   | Lower Upper    |
| 41          | 100            |
| 76          | 30.9 23.9 35.9 |
| 39          | 86.2 57.8 86.6 |



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.910 ppbv  
 RT: 2.040 min Scan# 603  
 Delta R.T. -0.304 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

|             |                   |
|-------------|-------------------|
| Tgt Ion: 96 | Resp: 6629        |
| Ion Ratio   | Lower Upper       |
| 96          | 100               |
| 61          | 189.6 132.6 199.0 |
| 98          | 53.1 50.0 75.0    |

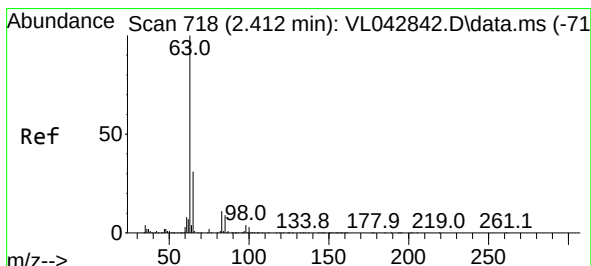
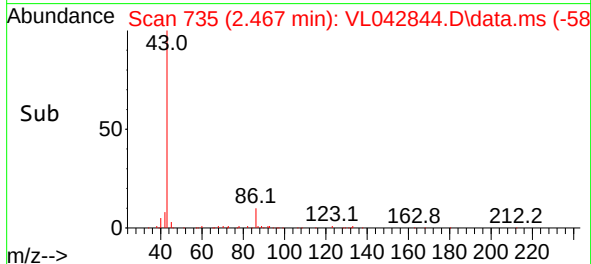
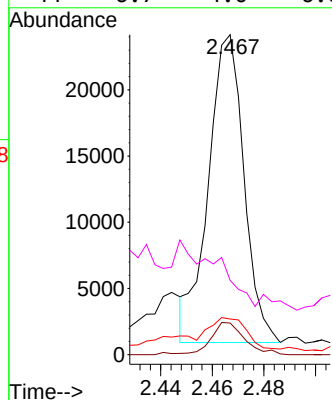
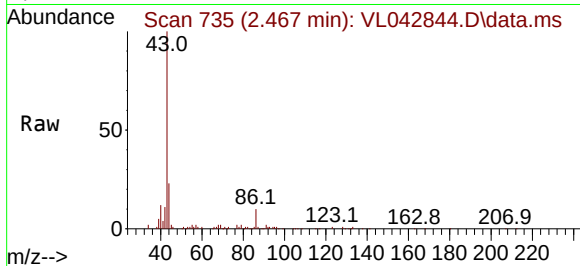




#23  
 Vinyl Acetate  
 Concen: 0.996 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

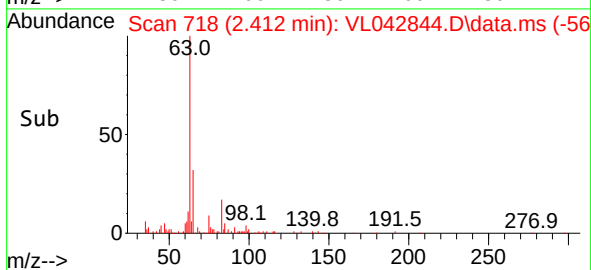
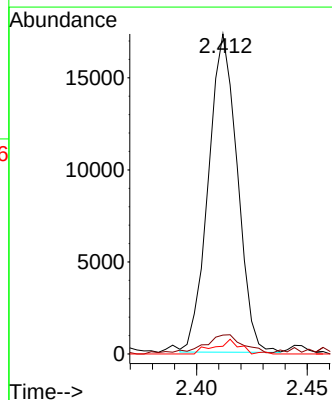
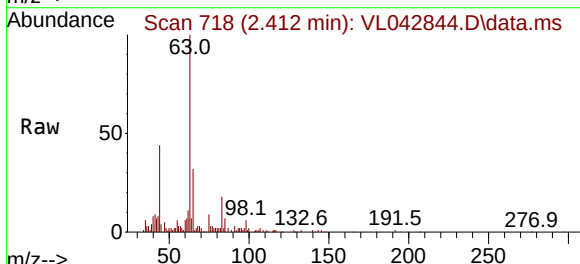
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

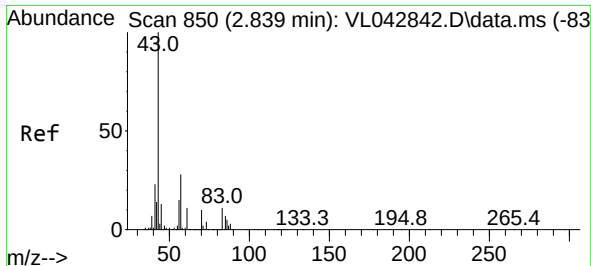
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 22270 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 10.0  | 6.6   | 9.8#  |
| 42       | 9.8   | 7.0   | 10.6  |
| 44       | 6.7   | 4.0   | 6.0#  |



#24  
 1,1-Dichloroethane  
 Concen: 1.045 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 15727 |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 4.8   | 2.1   | 6.5   |
| 100      | 2.4   | 1.7   | 5.1   |

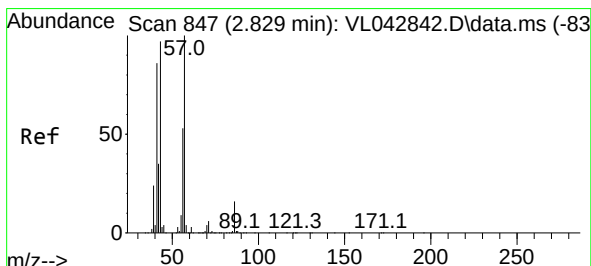
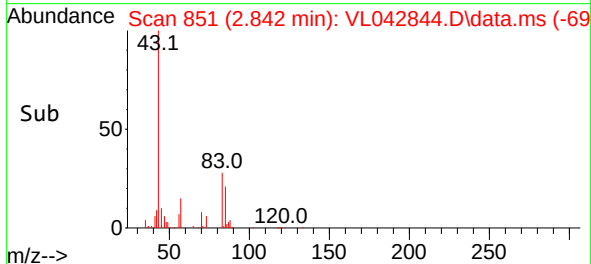
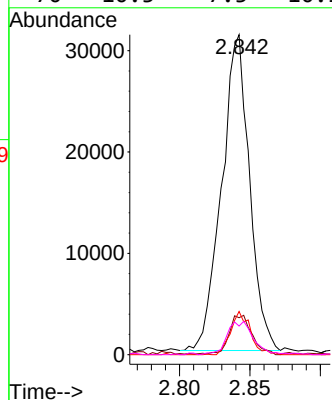
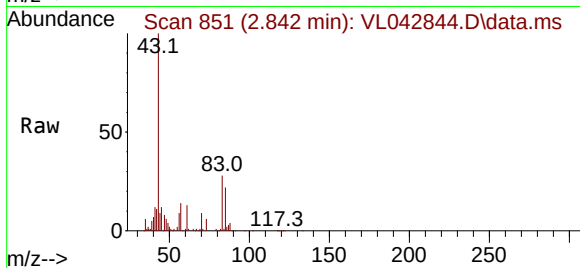




#25  
Ethyl Acetate  
Concen: 1.045 ppbv  
RT: 2.842 min Scan# 851  
Delta R.T. 0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

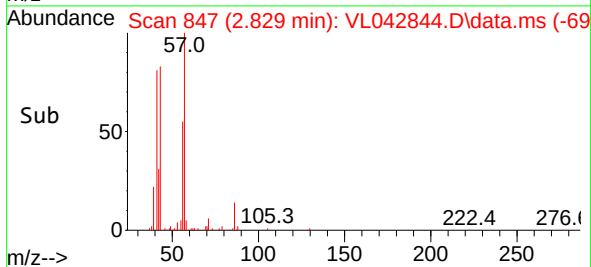
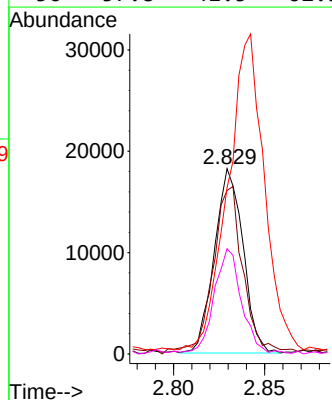
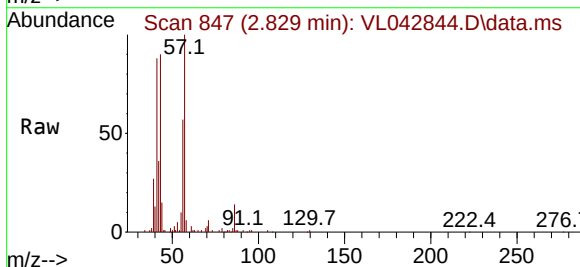
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC001

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 43007 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 11.2  | 8.1   | 12.1  |
| 61       | 9.7   | 7.4   | 11.2  |
| 70       | 10.3  | 7.3   | 10.9  |

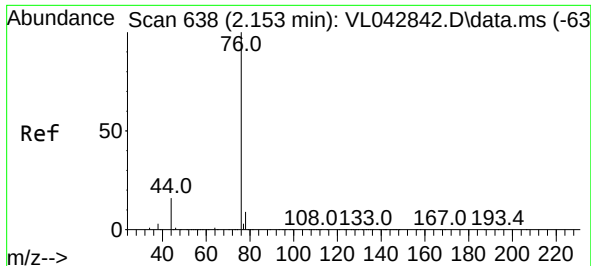


#26  
Hexane  
Concen: 1.050 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 19944 |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 93.6  | 68.6  | 103.0 |
| 43       | 222.4 | 168.5 | 252.7 |
| 56       | 57.8  | 41.5  | 62.3  |







#27

Carbon Disulfide

Concen: 1.052 ppbv

RT: 2.153 min Scan# 638

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

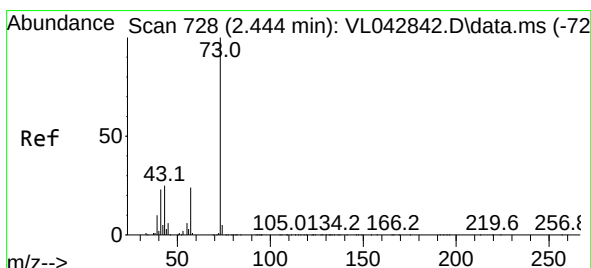
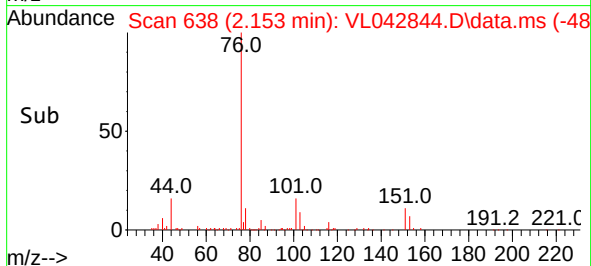
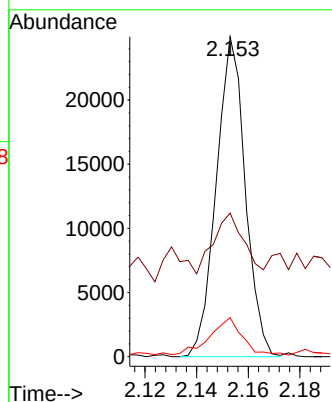
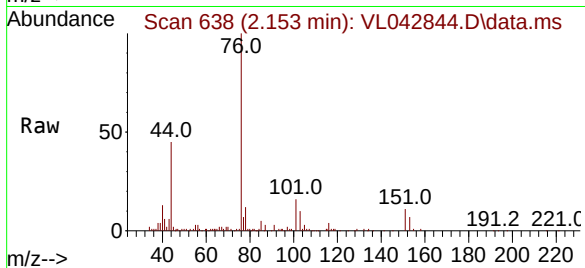
Tgt Ion: 76 Resp: 19450

Ion Ratio Lower Upper

76 100

44 88.3 15.9 23.9#

78 17.1 9.5 14.3#



#28

Methyl tert-Butyl Ether

Concen: 0.991 ppbv

RT: 2.444 min Scan# 728

Delta R.T. 0.000 min

Lab File: VL042844.D

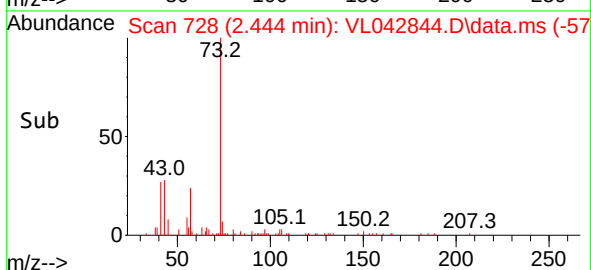
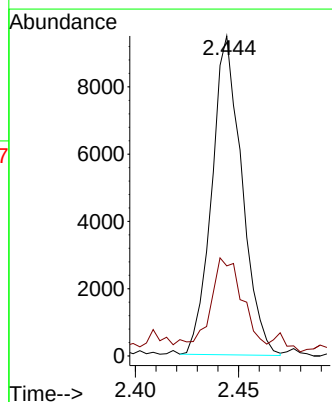
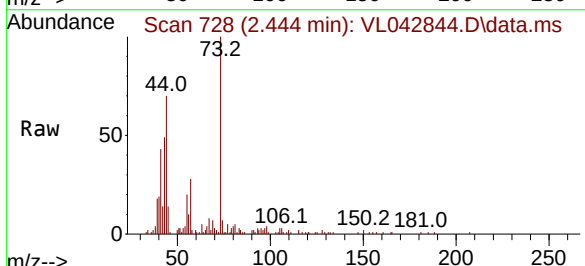
Acq: 13 Aug 2025 09:41

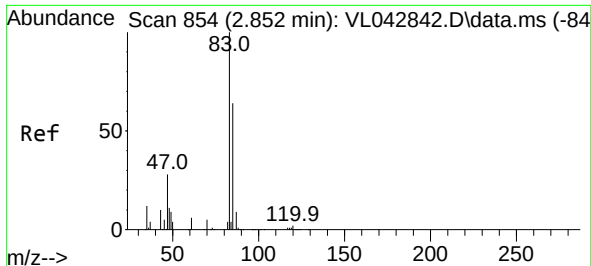
Tgt Ion: 73 Resp: 9600

Ion Ratio Lower Upper

73 100

57 33.4 21.6 32.4#





#29

Chloroform

Concen: 1.034 ppbv

RT: 2.852 min Scan# 854

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

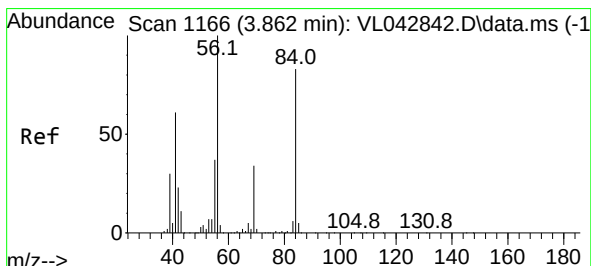
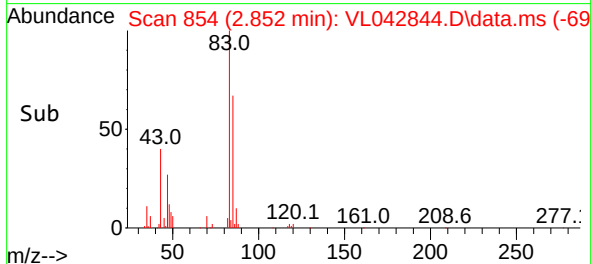
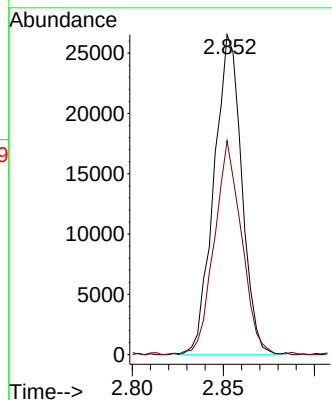
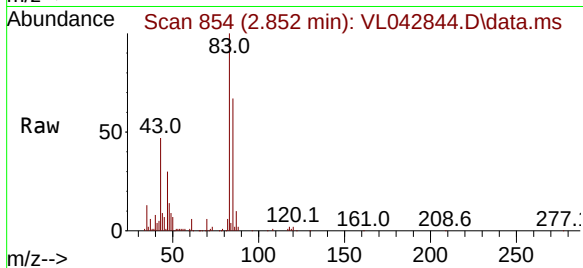
VSTDIC001

Tgt Ion: 83 Resp: 28055

Ion Ratio Lower Upper

83 100

85 66.6 51.1 76.7



#30

Cyclohexane

Concen: 0.990 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

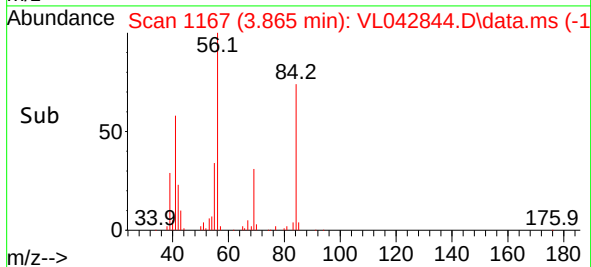
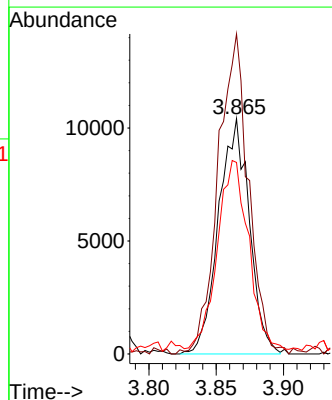
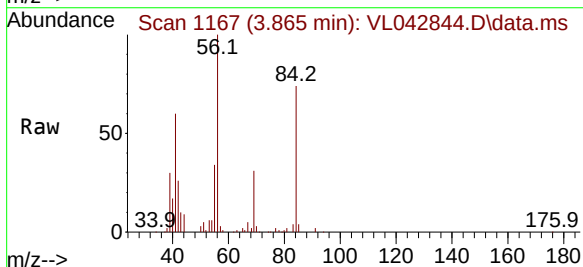
Tgt Ion: 84 Resp: 16492

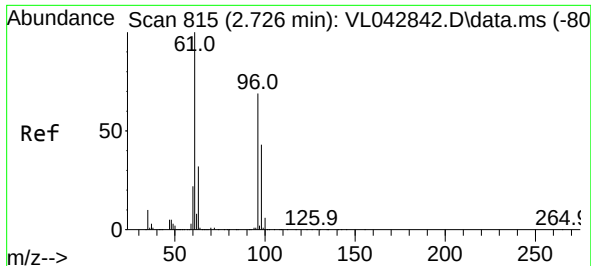
Ion Ratio Lower Upper

84 100

56 135.9 98.8 148.2

41 84.9 61.3 91.9

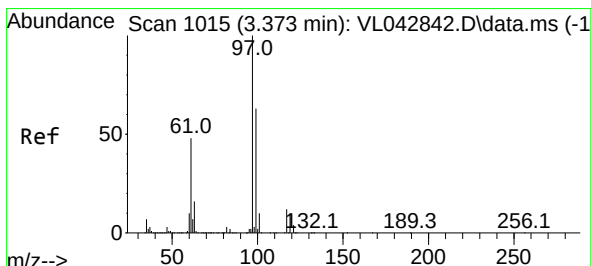
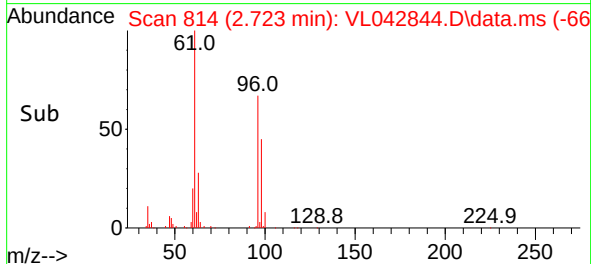
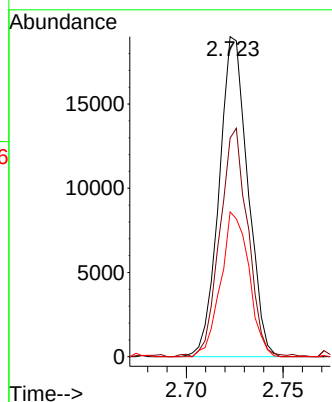
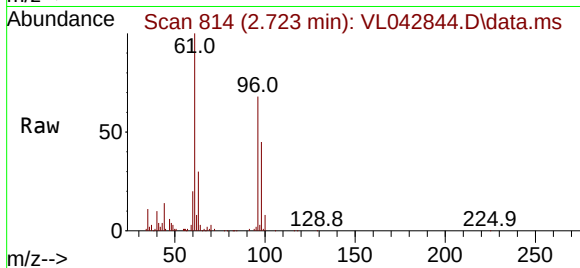




#31  
 cis-1,2-Dichloroethene  
 Concen: 1.031 ppbv  
 RT: 2.723 min Scan# 815  
 Delta R.T. -0.003 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

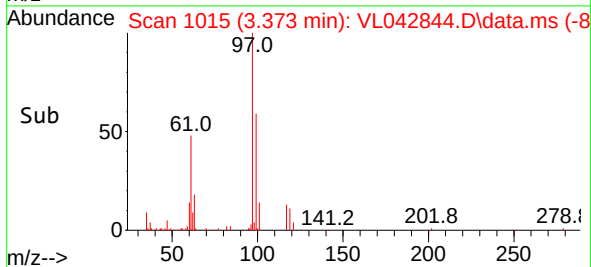
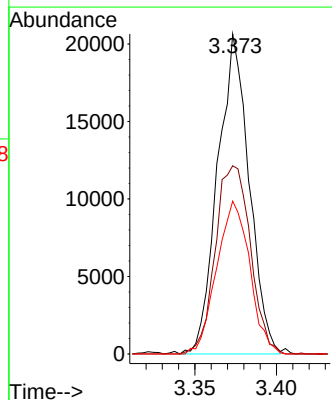
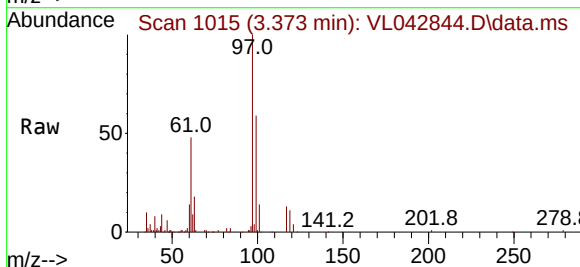
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC001

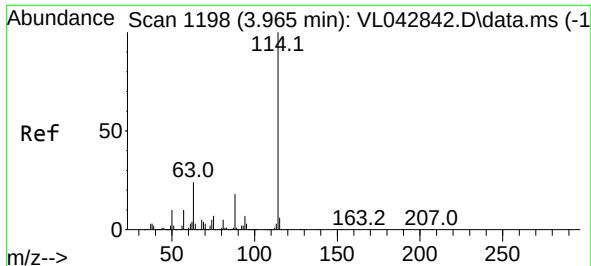
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 61    | Resp: | 19591 |
| Ion Ratio | Lower | Upper |       |
| 61        | 100   |       |       |
| 96        | 67.7  | 55.0  | 82.6  |
| 98        | 45.2  | 34.3  | 51.5  |



#32  
 1,1,1-Trichloroethane  
 Concen: 0.961 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 97    | Resp: | 27607 |
| Ion Ratio | Lower | Upper |       |
| 97        | 100   |       |       |
| 99        | 65.8  | 51.0  | 76.6  |
| 61        | 50.2  | 38.0  | 57.0  |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001

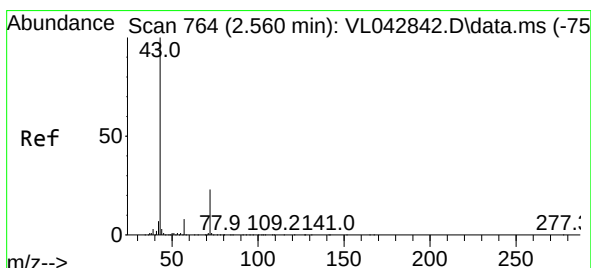
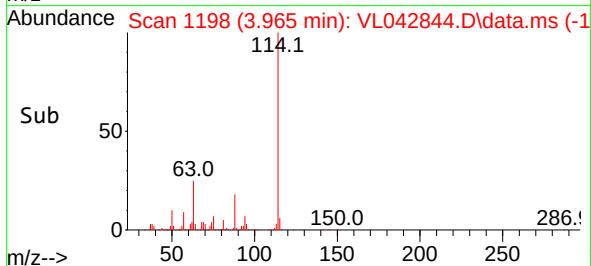
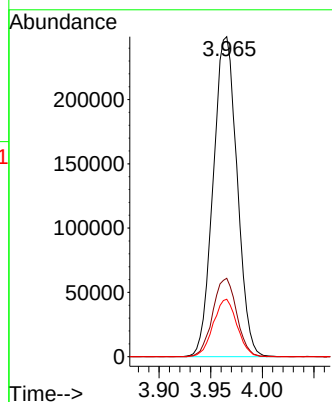
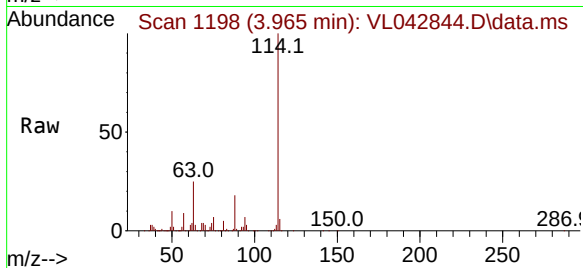
Tgt Ion:114 Resp: 400305

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

88 17.9 14.4 21.6



#34

2-Butanone

Concen: 1.040 ppbv

RT: 2.564 min Scan# 765

Delta R.T. 0.003 min

Lab File: VL042844.D

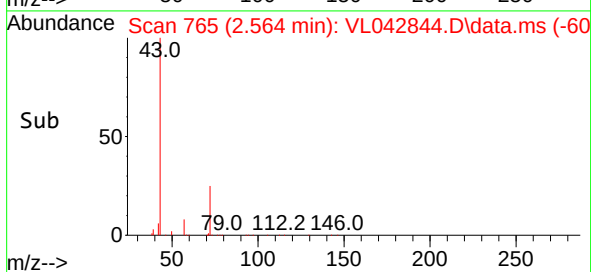
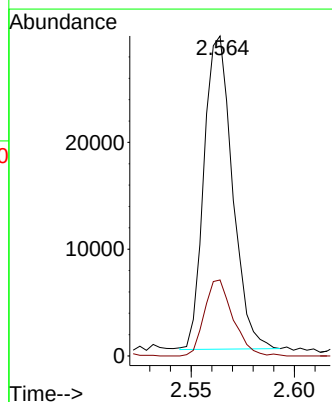
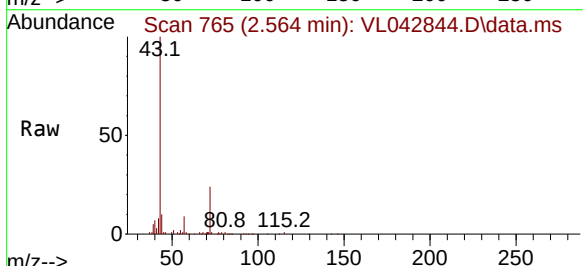
Acq: 13 Aug 2025 09:41

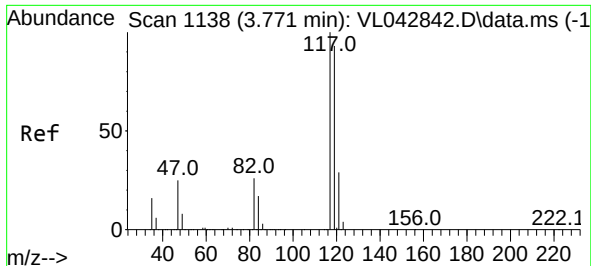
Tgt Ion: 43 Resp: 28105

Ion Ratio Lower Upper

43 100

72 24.4 18.6 28.0

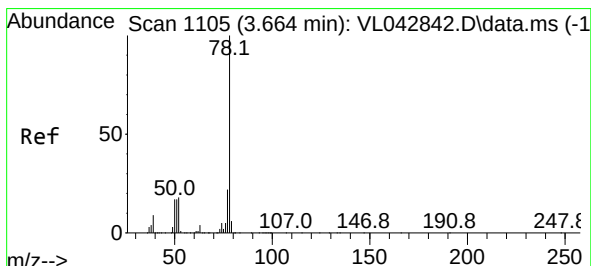
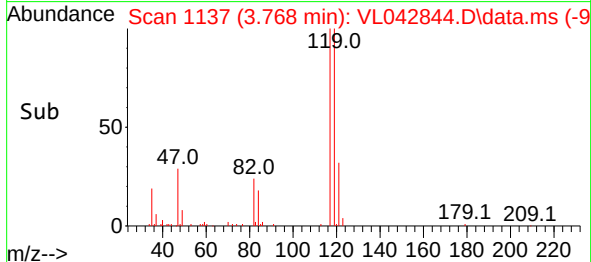
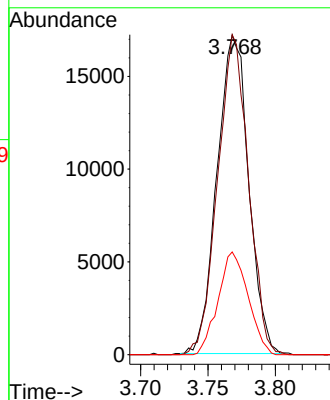
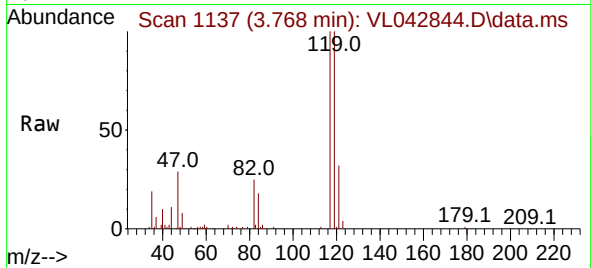




#35  
Carbon Tetrachloride  
Concen: 1.015 ppbv  
RT: 3.768 min Scan# 1137  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

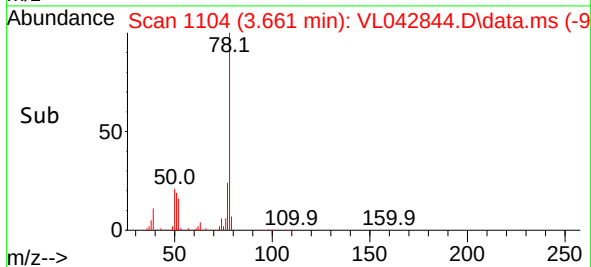
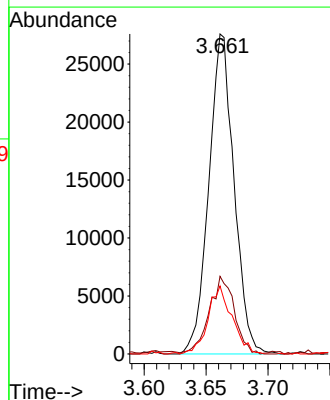
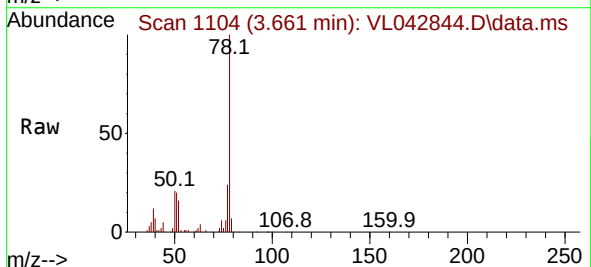
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

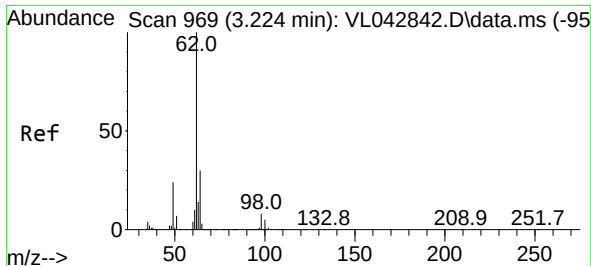
Tgt Ion:117 Resp: 28008  
Ion Ratio Lower Upper  
117 100  
119 100.5 74.7 112.1  
121 32.3 23.2 34.8



#36  
Benzene  
Concen: 1.021 ppbv  
RT: 3.661 min Scan# 1104  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 78 Resp: 39137  
Ion Ratio Lower Upper  
78 100  
77 23.8 17.7 26.5  
50 21.1 13.9 20.9#

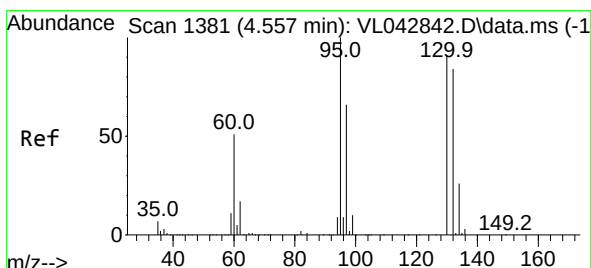
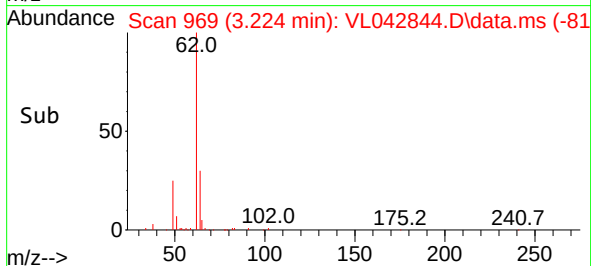
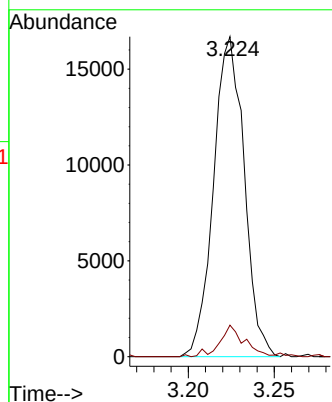
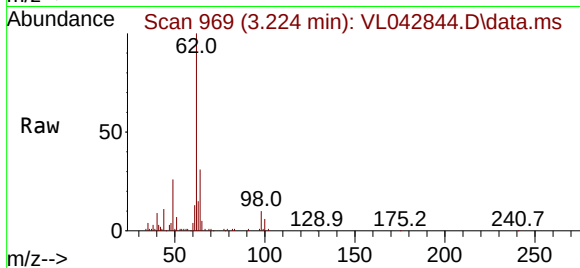




#37  
1,2-Dichloroethane  
Concen: 1.031 ppbv  
RT: 3.224 min Scan# 969  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

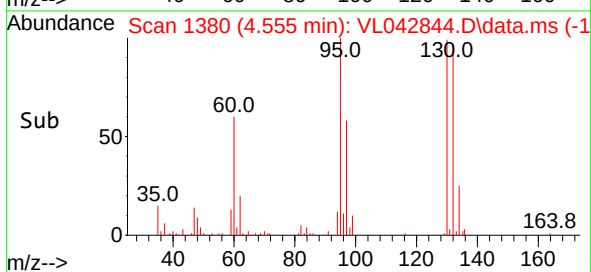
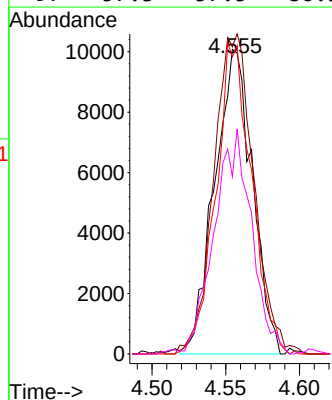
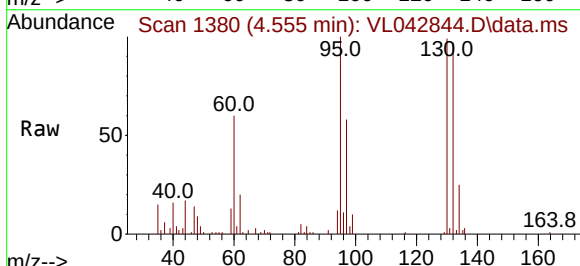
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

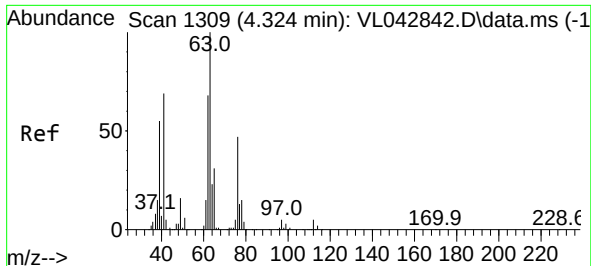
Tgt Ion: 62 Resp: 20645  
Ion Ratio Lower Upper  
62 100  
98 8.4 5.9 8.9



#38  
Trichloroethene  
Concen: 1.024 ppbv  
RT: 4.555 min Scan# 1380  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 130 Resp: 17921  
Ion Ratio Lower Upper  
130 100  
95 97.9 87.6 131.4  
132 96.6 73.8 110.8  
97 57.3 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 0.469 ppbv

RT: 4.325 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

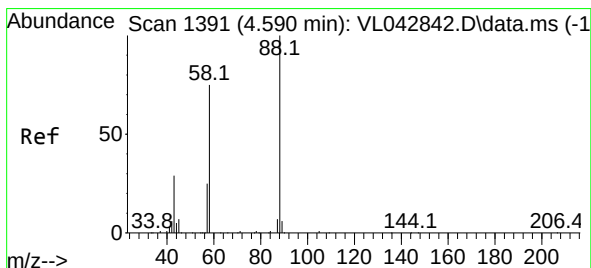
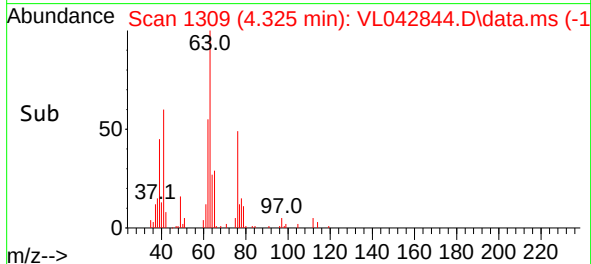
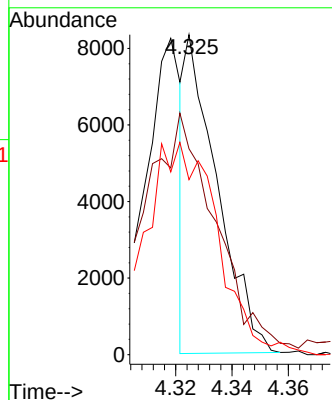
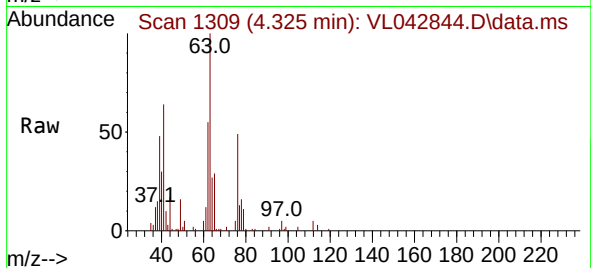
Tgt Ion: 63 Resp: 6572

Ion Ratio Lower Upper

63 100

41 61.3 55.0 82.4

62 51.1 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.599 ppbv

RT: 4.603 min Scan# 1395

Delta R.T. 0.013 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion: 88 Resp: 3925

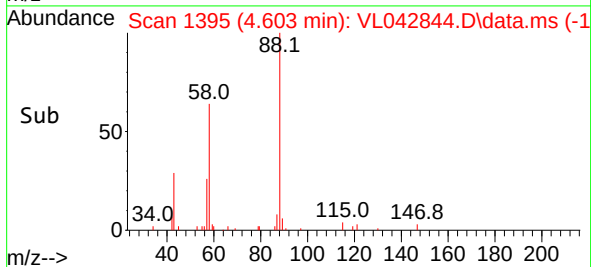
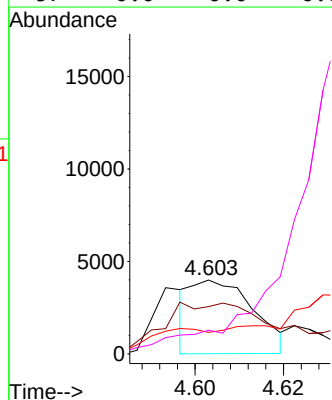
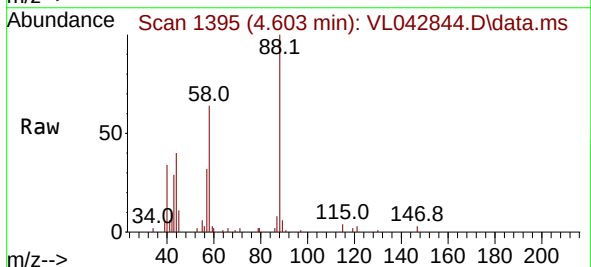
Ion Ratio Lower Upper

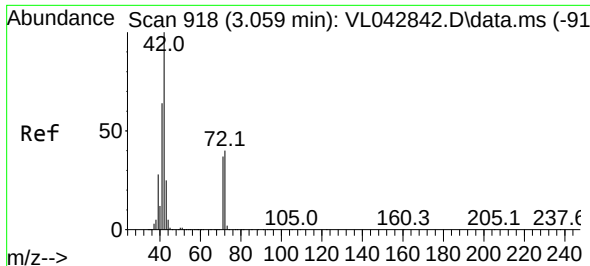
88 100

58 0.0 53.8 80.6#

43 0.0 22.8 34.2#

57 0.0 0.0 0.0



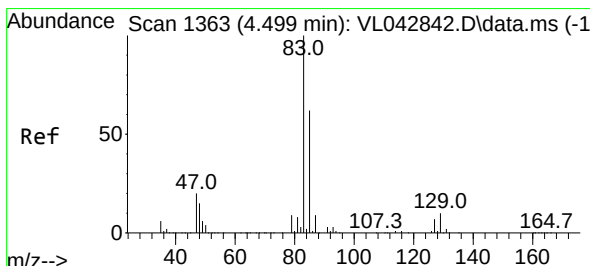
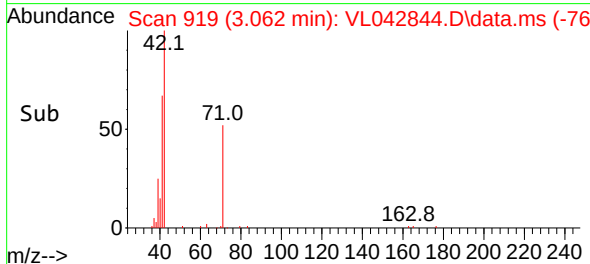
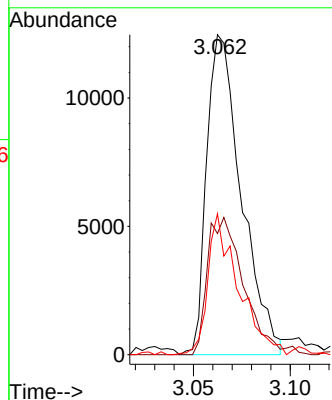
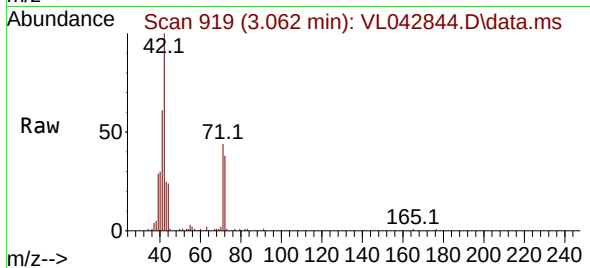


#41  
Tetrahydrofuran  
Concen: 1.032 ppbv  
RT: 3.062 min Scan# 918  
Delta R.T. 0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

Tgt Ion: 42 Resp: 15552

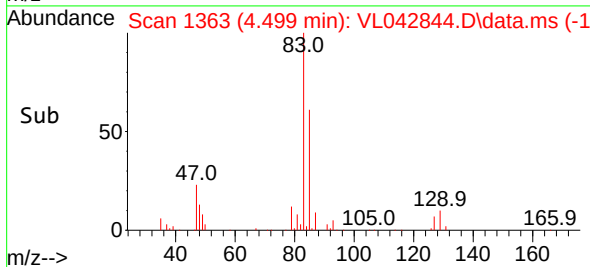
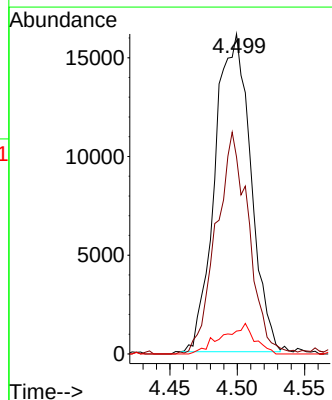
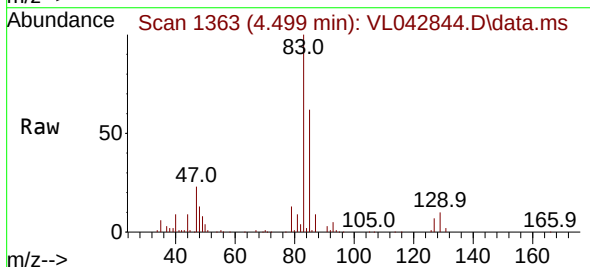
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 72  | 45.4  | 32.6  | 48.8  |
| 71  | 40.1  | 30.0  | 45.0  |



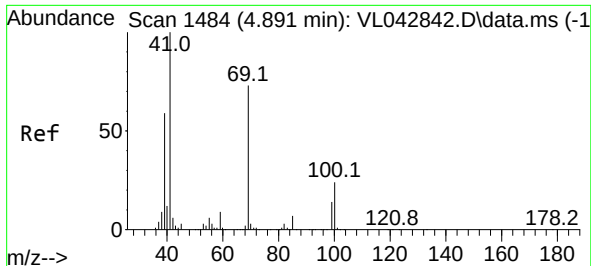
#42  
Bromodichloromethane  
Concen: 0.995 ppbv  
RT: 4.499 min Scan# 1363  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 83 Resp: 29683

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 85  | 61.3  | 49.8  | 74.8  |
| 127 | 7.2   | 5.8   | 8.6   |



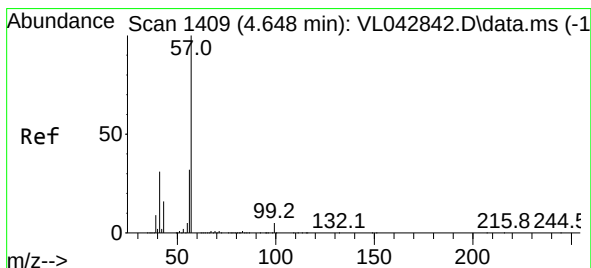
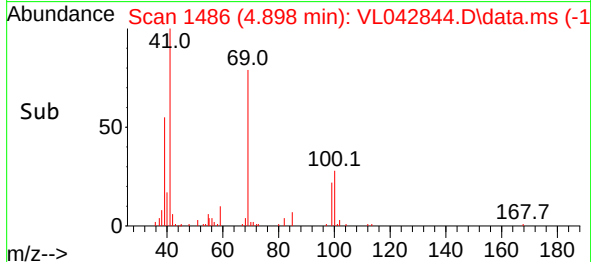
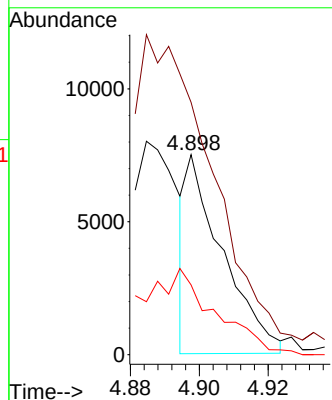
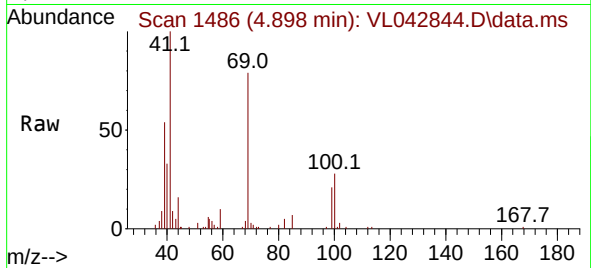




#43  
Methyl Methacrylate  
Concen: 0.349 ppbv  
RT: 4.898 min Scan# 1486  
Delta R.T. 0.007 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

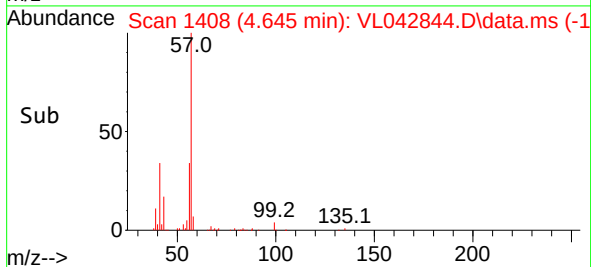
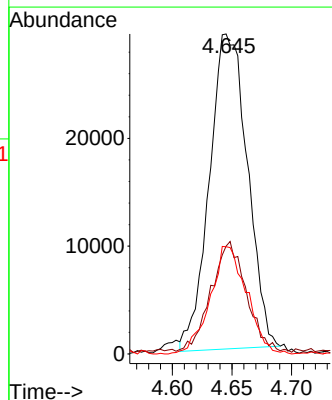
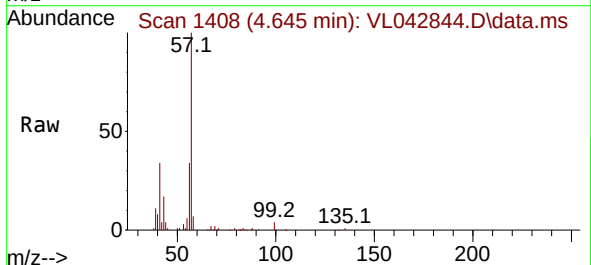
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

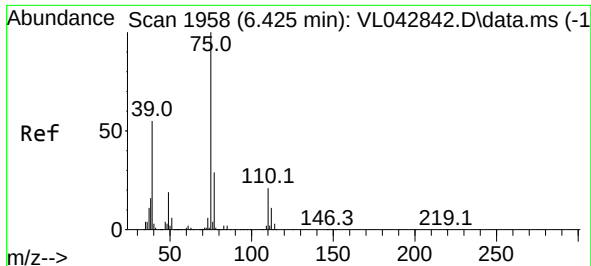
Tgt Ion: 69 Resp: 5494  
Ion Ratio Lower Upper  
69 100  
41 0.0 114.6 172.0#  
100 102.7 30.2 45.4#



#44  
2,2,4-Trimethylpentane  
Concen: 1.009 ppbv  
RT: 4.645 min Scan# 1408  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 57 Resp: 64930  
Ion Ratio Lower Upper  
57 100  
41 34.6 24.8 37.2  
56 33.2 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 0.434 ppbv

RT: 6.429 min Scan# 1958

Delta R.T. 0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_1

ClientSampleId :

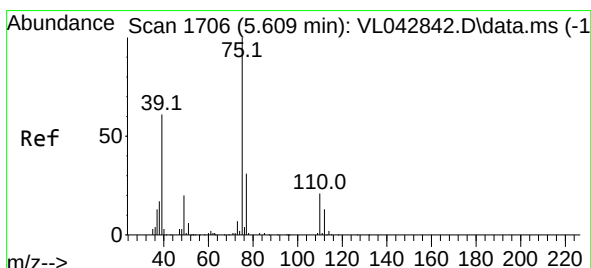
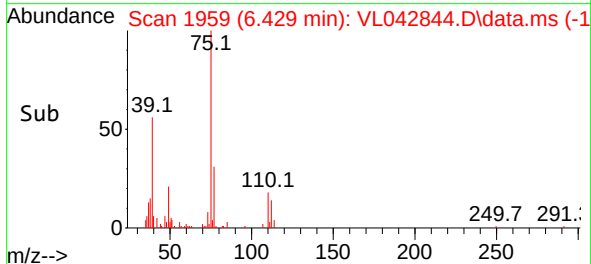
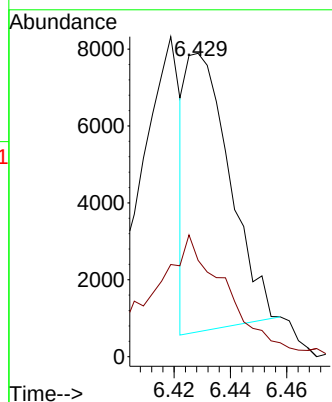
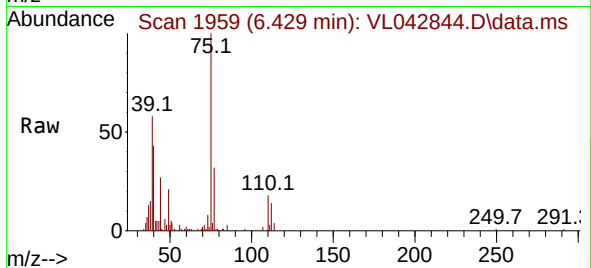
VSTDIC001

Tgt Ion: 75 Resp: 7736

Ion Ratio Lower Upper

75 100

77 31.8 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 0.999 ppbv

RT: 5.610 min Scan# 1706

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

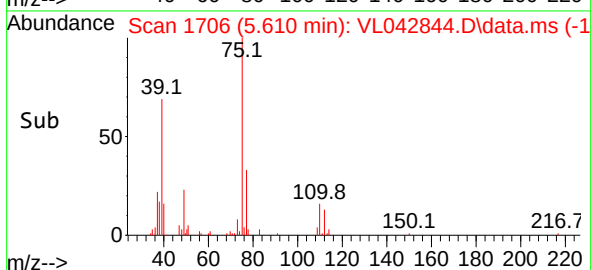
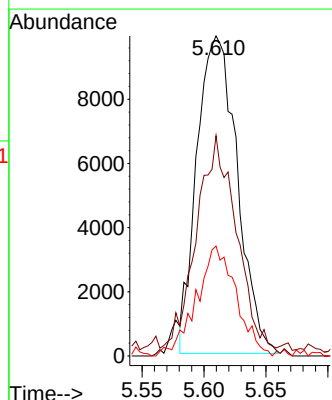
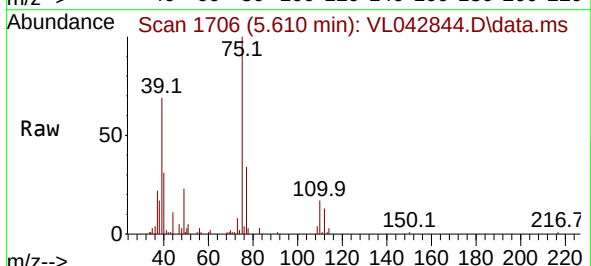
Tgt Ion: 75 Resp: 22372

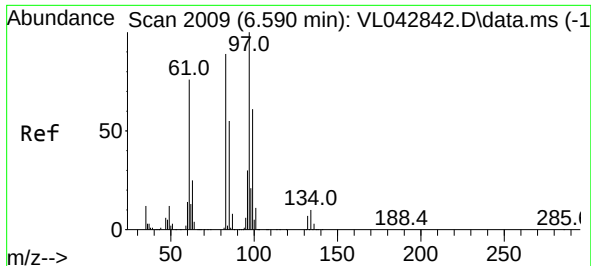
Ion Ratio Lower Upper

75 100

39 66.4 48.9 73.3

77 33.8 24.9 37.3

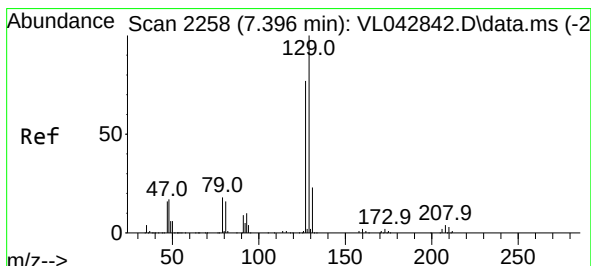
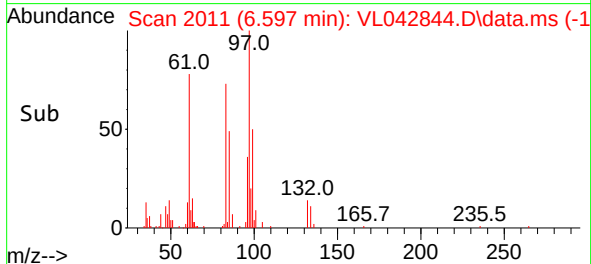
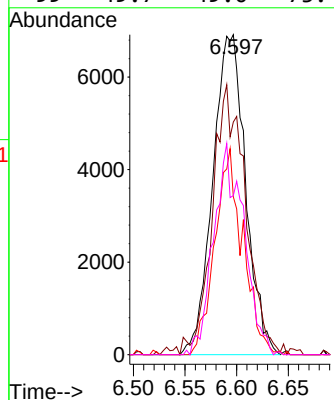
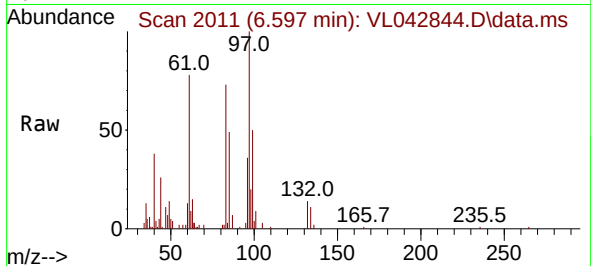




#47  
1,1,2-Trichloroethane  
Concen: 1.032 ppbv  
RT: 6.597 min Scan# 2009  
Delta R.T. 0.007 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

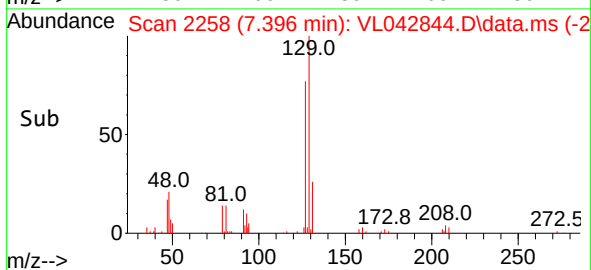
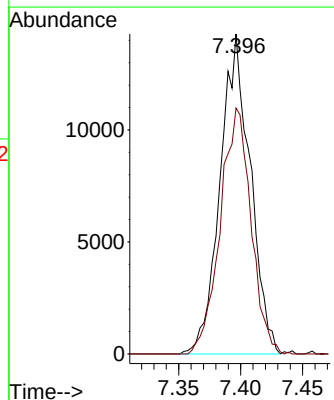
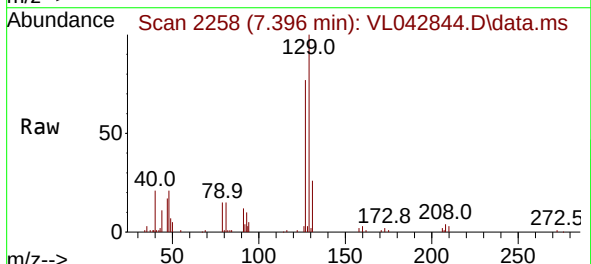
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

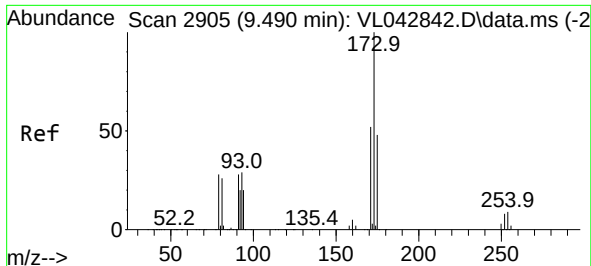
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 15295 |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 72.7  | 71.0  | 106.4 |
| 85       | 49.4  | 43.6  | 65.4  |
| 99       | 49.7  | 49.0  | 73.4  |



#48  
Dibromochloromethane  
Concen: 1.009 ppbv  
RT: 7.396 min Scan# 2258  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 24214 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 78.2  | 39.4  | 118.2 |

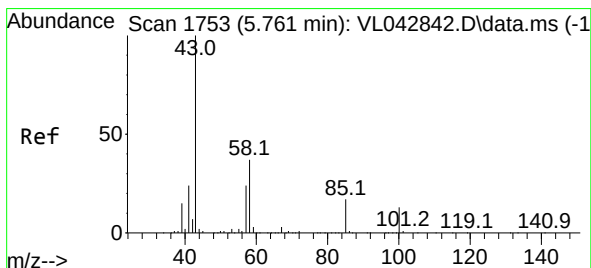
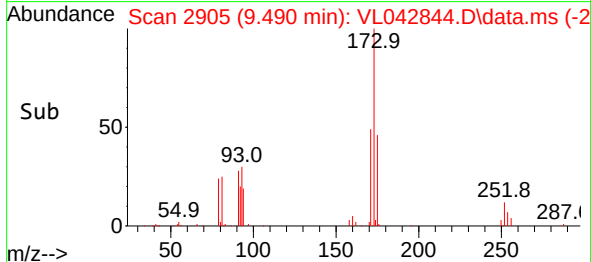
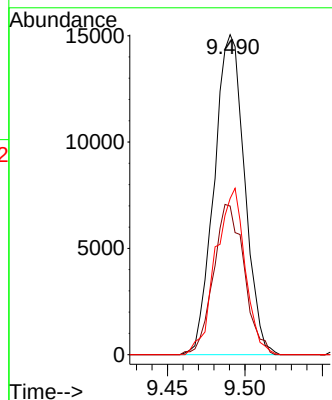
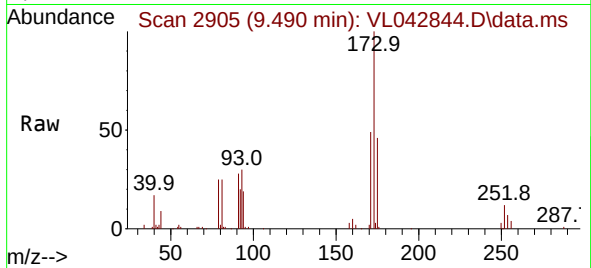




#49  
Bromoform  
Concen: 1.040 ppbv  
RT: 9.490 min Scan# 2905  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

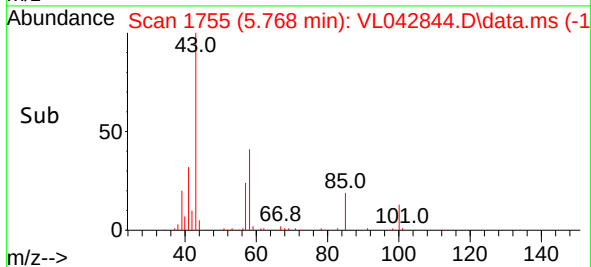
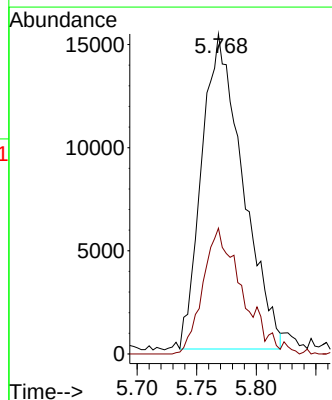
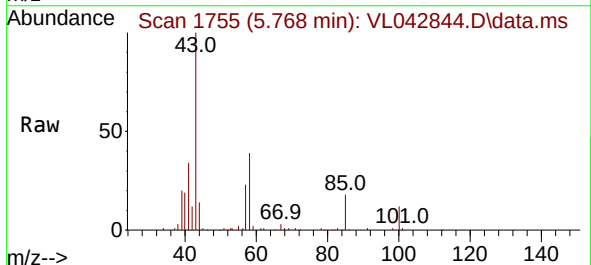
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

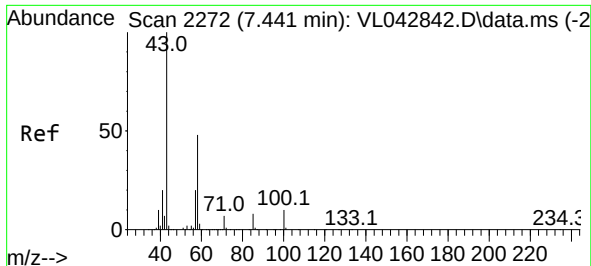
Tgt Ion:173 Resp: 20579  
Ion Ratio Lower Upper  
173 100  
175 47.3 39.2 58.8  
171 50.3 41.3 61.9



#50  
4-Methyl-2-Pentanone  
Concen: 1.001 ppbv  
RT: 5.768 min Scan# 1755  
Delta R.T. 0.007 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 43 Resp: 36710  
Ion Ratio Lower Upper  
43 100  
58 38.3 29.8 44.8

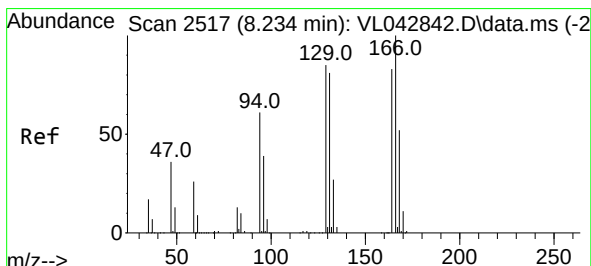
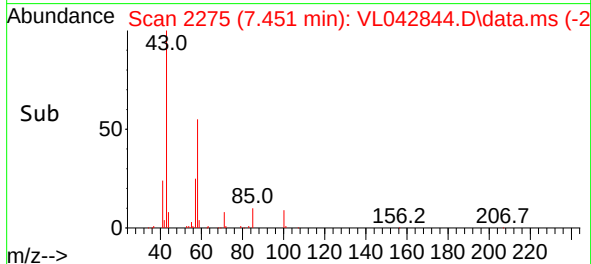
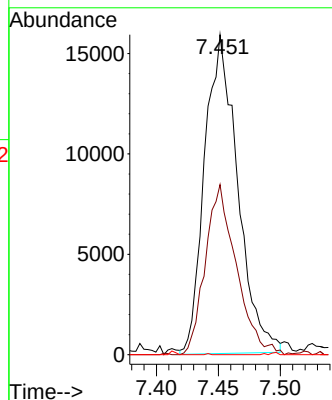
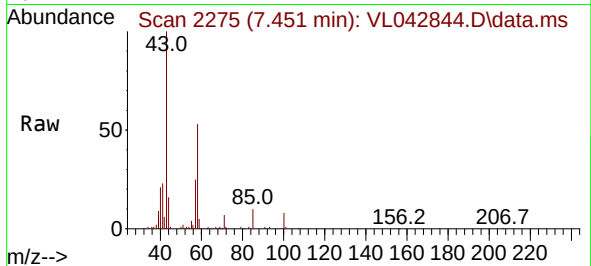




#51  
2-Hexanone  
Concen: 1.026 ppbv  
RT: 7.451 min Scan# 21  
Delta R.T. 0.010 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

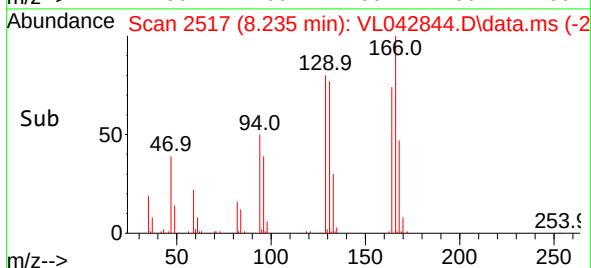
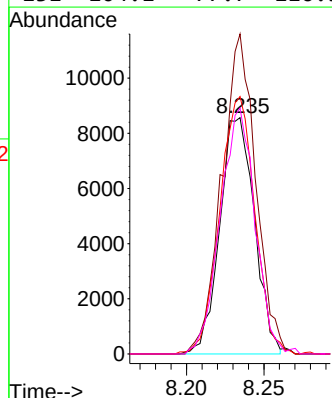
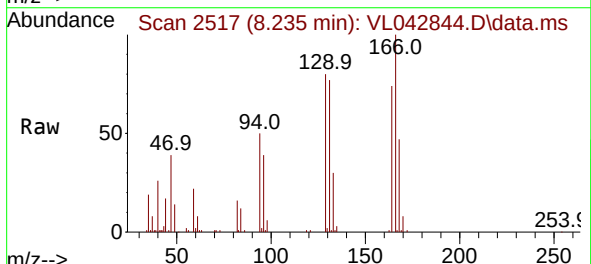
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC001

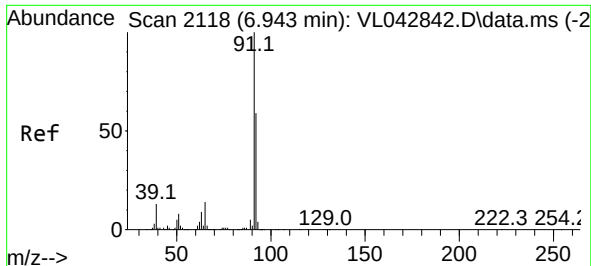
Tgt Ion: 43 Resp: 29487  
Ion Ratio Lower Upper  
43 100  
58 50.6 41.0 61.6  
98 0.2 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 0.960 ppbv  
RT: 8.235 min Scan# 2517  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 164 Resp: 13322  
Ion Ratio Lower Upper  
164 100  
166 135.4 96.5 144.7  
129 110.5 81.8 122.6  
131 104.1 77.7 116.5

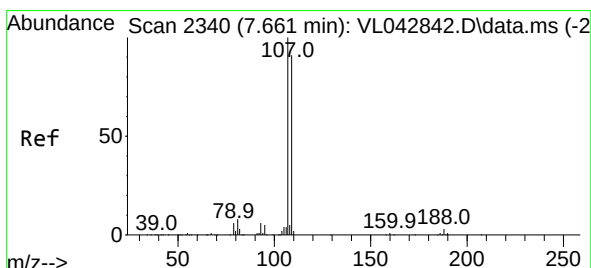
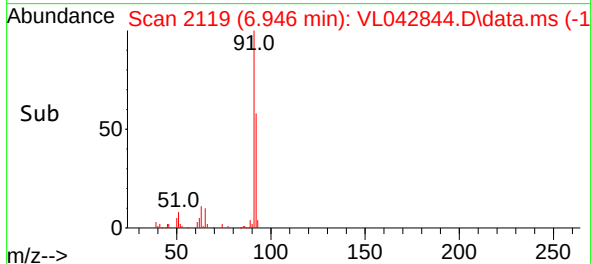
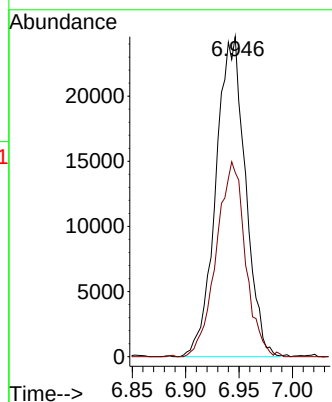
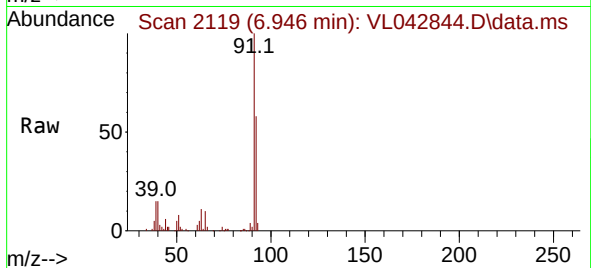




#53  
Toluene  
Concen: 1.036 ppbv  
RT: 6.946 min Scan# 2119  
Delta R.T. 0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

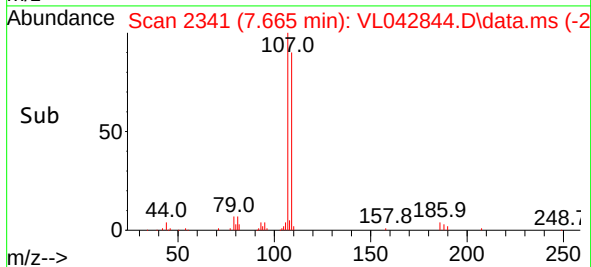
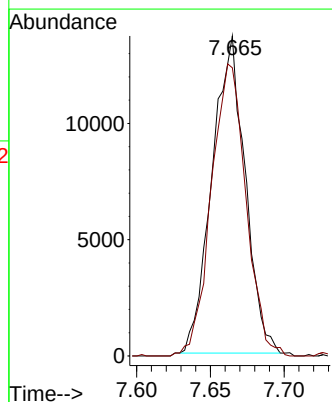
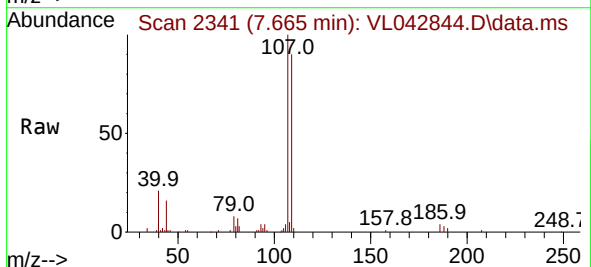
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

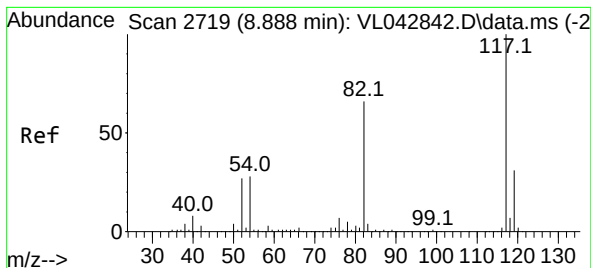
Tgt Ion: 91 Resp: 47256  
Ion Ratio Lower Upper  
91 100  
92 60.1 47.8 71.6



#54  
1,2-Dibromoethane  
Concen: 0.982 ppbv  
RT: 7.665 min Scan# 2341  
Delta R.T. 0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 107 Resp: 21280  
Ion Ratio Lower Upper  
107 100  
109 89.9 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.888 min Scan# 2719

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

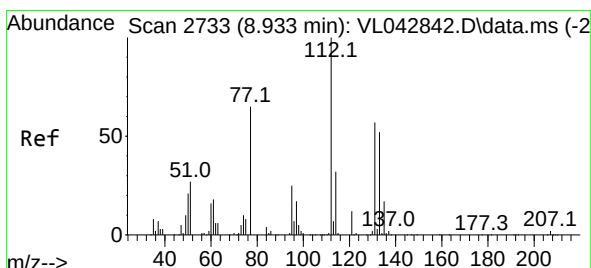
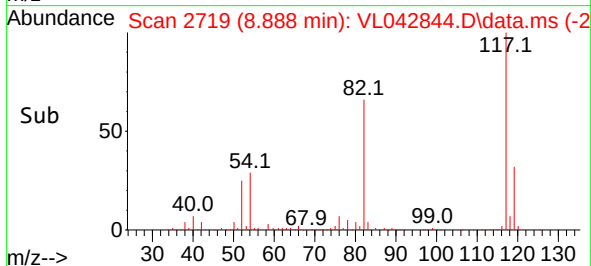
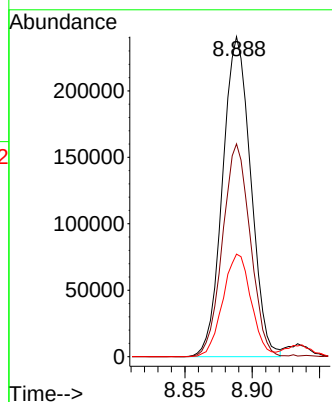
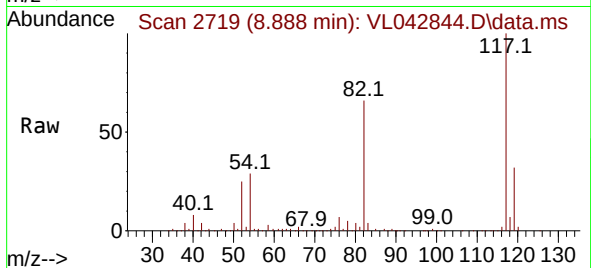
Tgt Ion:117 Resp: 349577

Ion Ratio Lower Upper

117 100

82 65.9 54.6 81.8

119 32.9 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 1.061 ppbv

RT: 8.930 min Scan# 2732

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

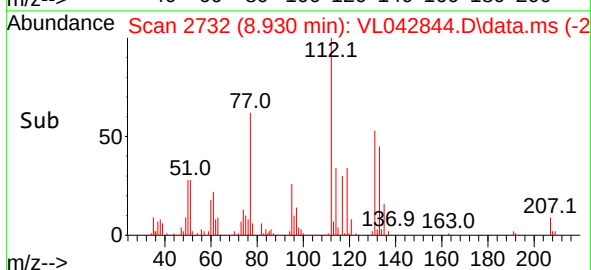
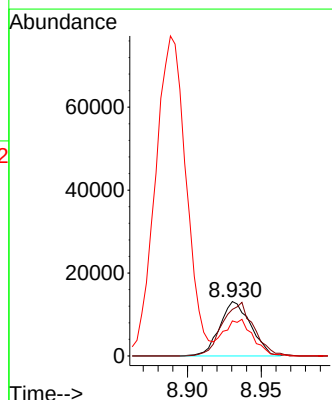
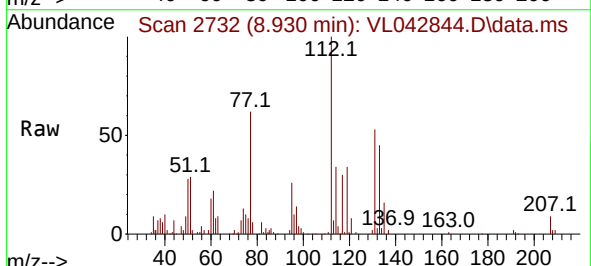
Tgt Ion:131 Resp: 19176

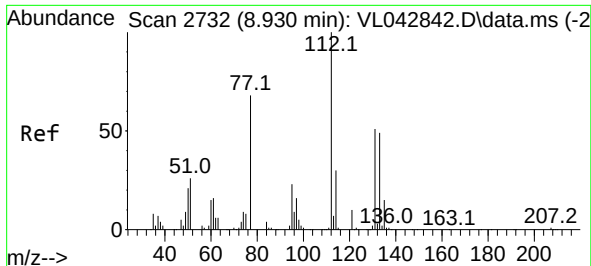
Ion Ratio Lower Upper

131 100

133 99.8 77.4 116.0

119 59.0 51.2 76.8





#57

Chlorobenzene

Concen: 1.041 ppbv

RT: 8.930 min Scan# 21

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC001

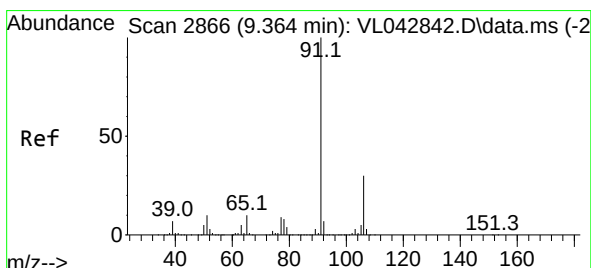
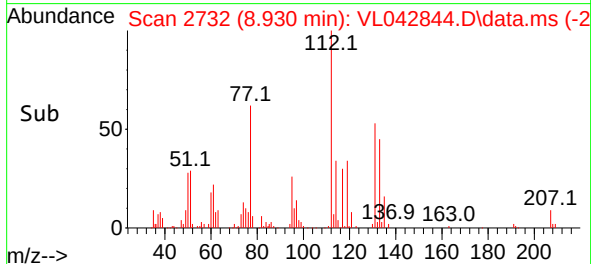
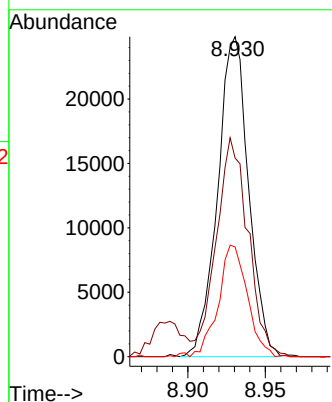
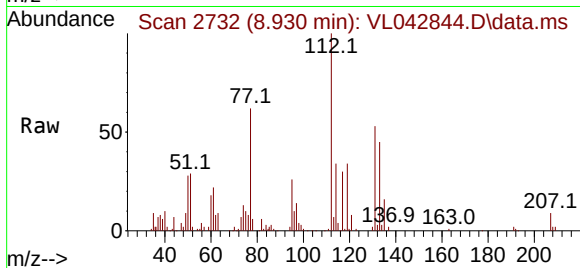
Tgt Ion:112 Resp: 34617

Ion Ratio Lower Upper

112 100

77 61.0 55.5 83.3

114 34.0 27.2 33.2#



#58

Ethyl Benzene

Concen: 1.057 ppbv

RT: 9.361 min Scan# 2865

Delta R.T. -0.003 min

Lab File: VL042844.D

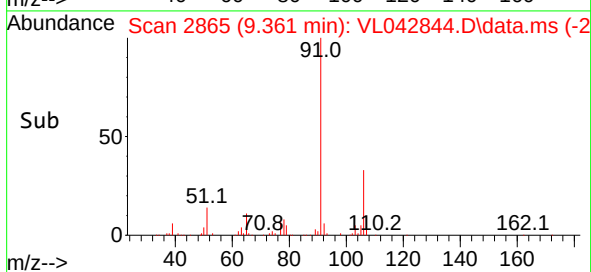
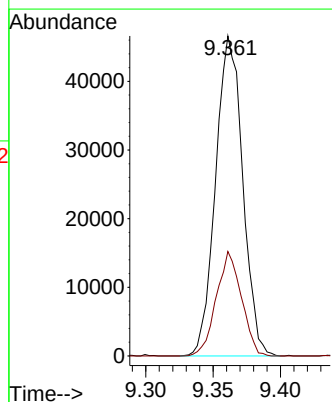
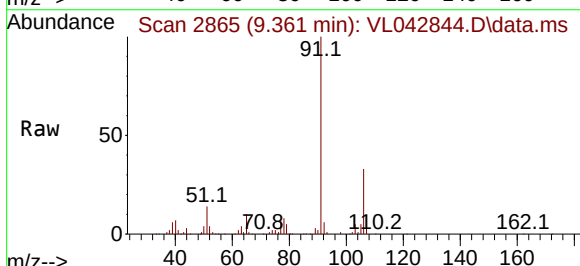
Acq: 13 Aug 2025 09:41

Tgt Ion: 91 Resp: 65223

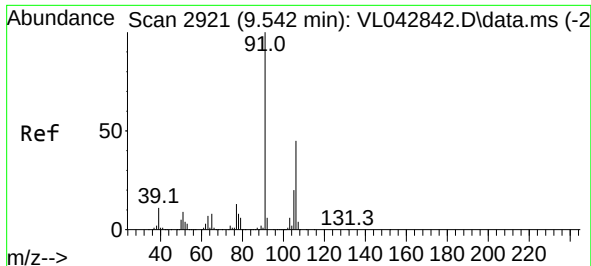
Ion Ratio Lower Upper

91 100

106 32.7 23.9 35.9







#59

m/p-Xylene

Concen: 1.108 ppbv

RT: 9.539 min Scan# 2921

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_1

ClientSampleId :

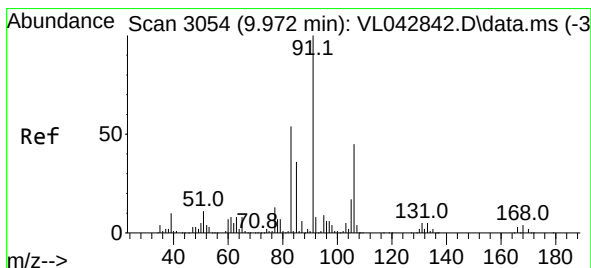
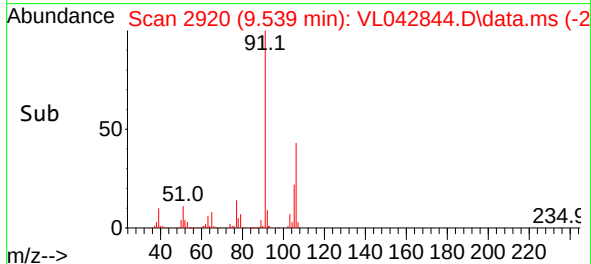
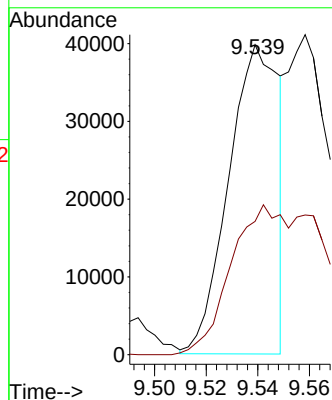
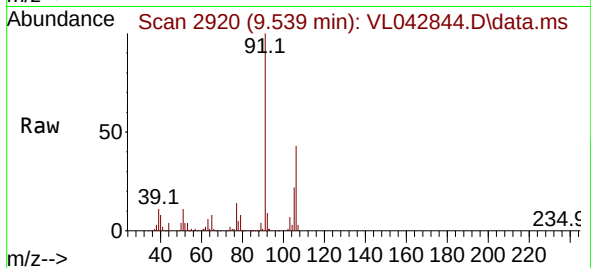
VSTDIC001

Tgt Ion: 91 Resp: 53658

Ion Ratio Lower Upper

91 100

106 88.3 0.0 0.0#



#60

o-Xylene

Concen: 1.058 ppbv

RT: 9.969 min Scan# 3053

Delta R.T. -0.003 min

Lab File: VL042844.D

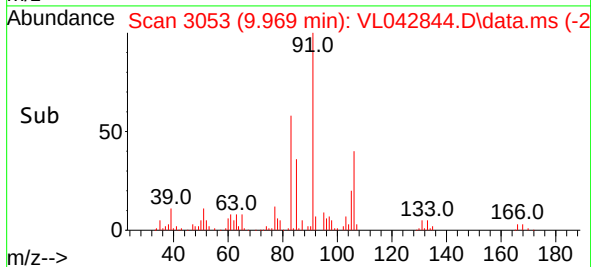
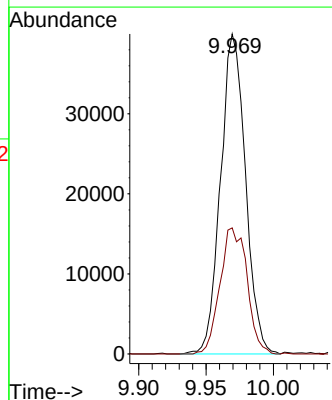
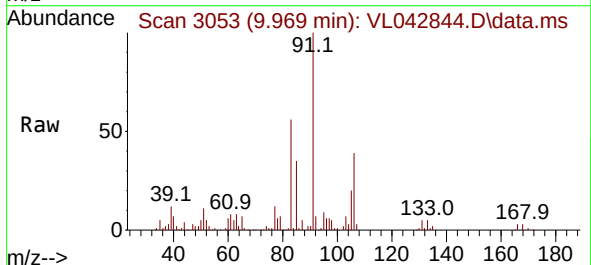
Acq: 13 Aug 2025 09:41

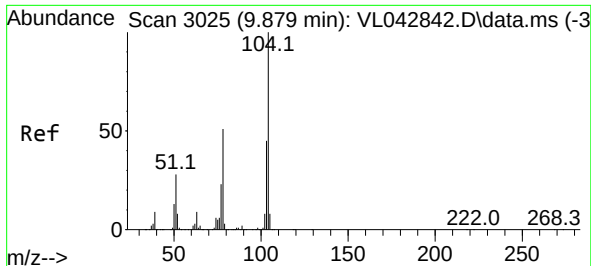
Tgt Ion: 91 Resp: 51445

Ion Ratio Lower Upper

91 100

106 42.8 21.8 65.4

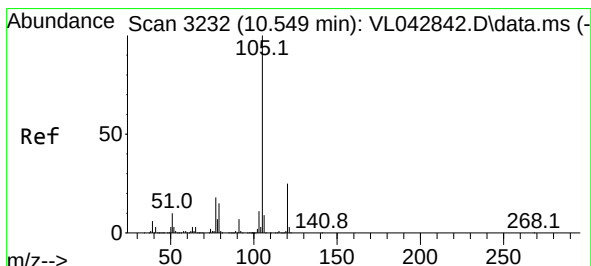
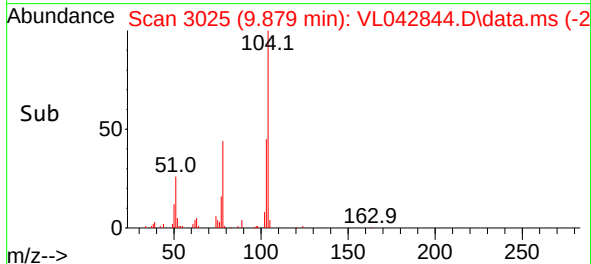
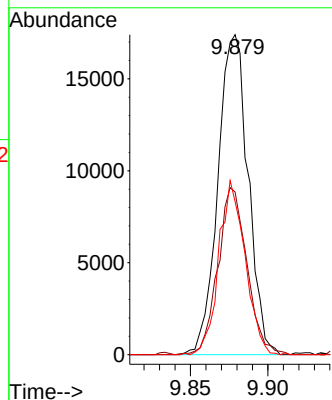
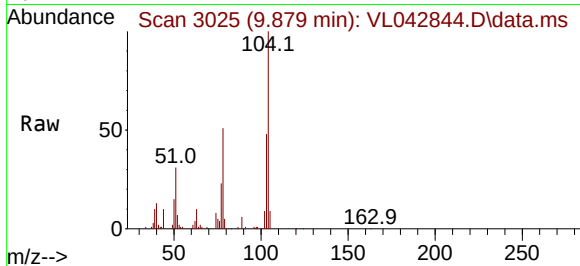




#61  
Styrene  
Concen: 1.038 ppbv  
RT: 9.879 min Scan# 3025  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

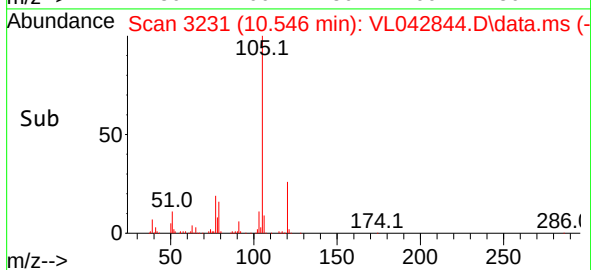
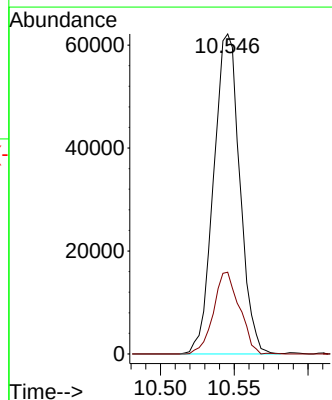
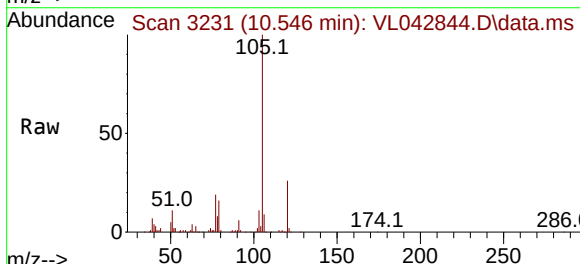
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

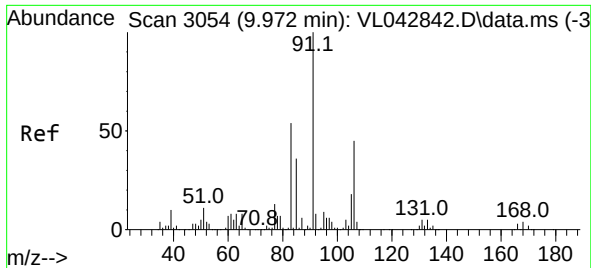
Tgt Ion:104 Resp: 23660  
Ion Ratio Lower Upper  
104 100  
78 50.4 40.6 61.0  
103 47.3 37.7 56.5



#62  
Isopropylbenzene  
Concen: 1.079 ppbv  
RT: 10.546 min Scan# 3231  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion:105 Resp: 76708  
Ion Ratio Lower Upper  
105 100  
120 25.4 20.6 30.8

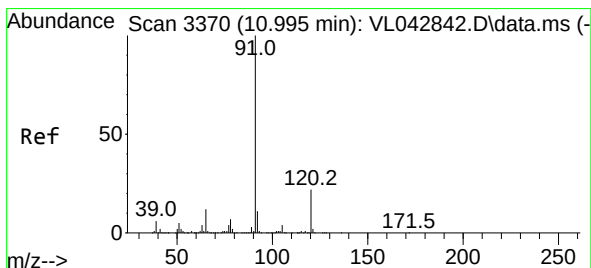
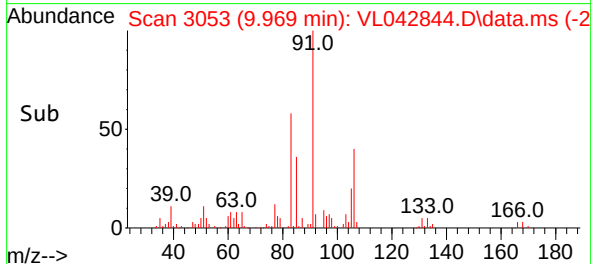
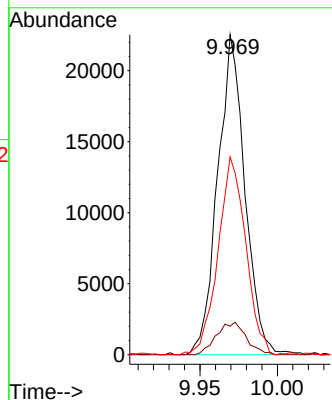
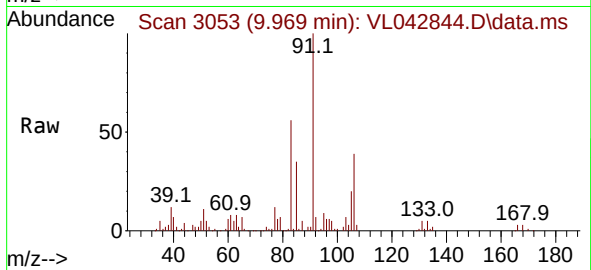




#63  
1,1,2,2-Tetrachloroethane  
Concen: 1.032 ppbv  
RT: 9.969 min Scan# 3053  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

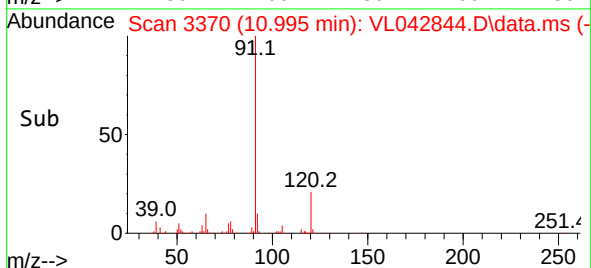
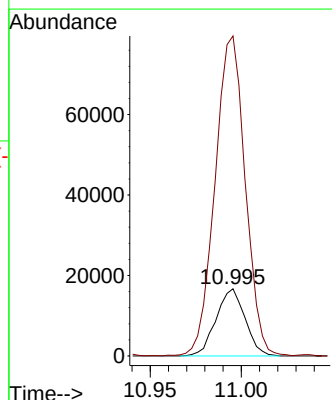
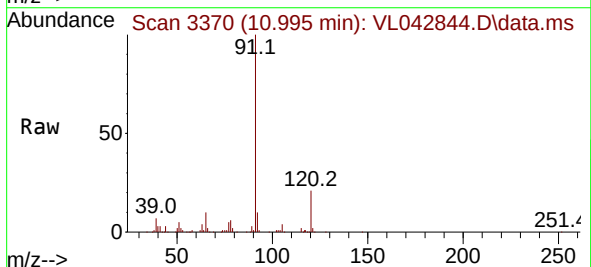
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC001

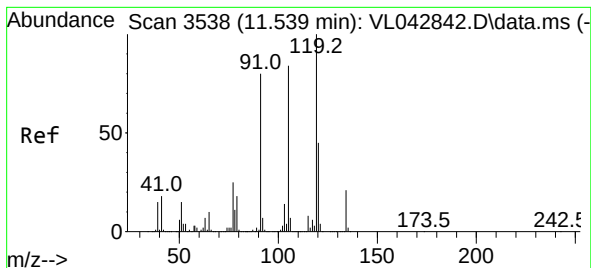
Tgt Ion: 83 Resp: 27410  
Ion Ratio Lower Upper  
83 100  
131 11.2 4.8 14.3  
85 63.5 32.3 96.8



#64  
n-propylbenzene  
Concen: 1.018 ppbv  
RT: 10.995 min Scan# 3370  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion:120 Resp: 18462  
Ion Ratio Lower Upper  
120 100  
91 496.0 375.8 563.6

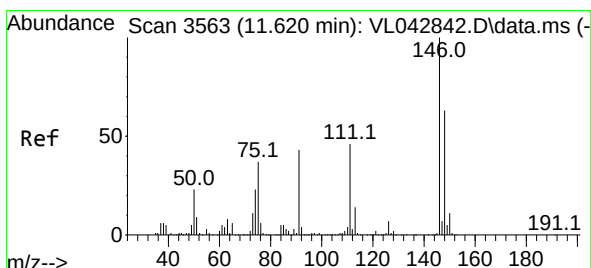
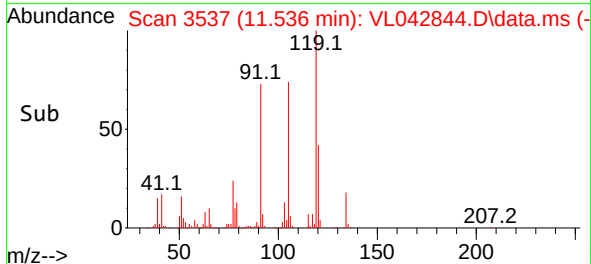
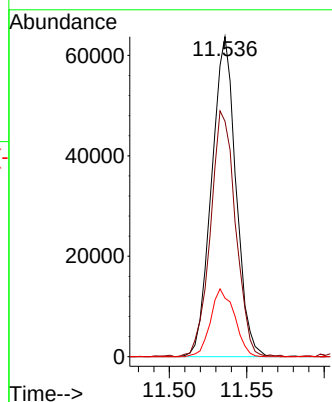
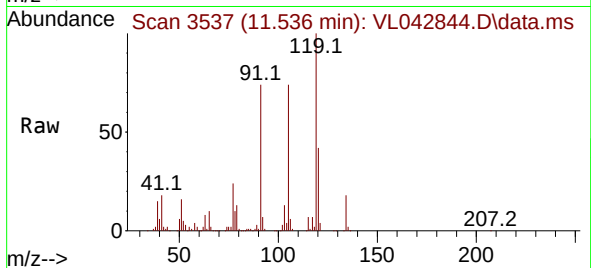




#65  
tert-Butylbenzene  
Concen: 1.111 ppbv  
RT: 11.536 min Scan# 3537  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

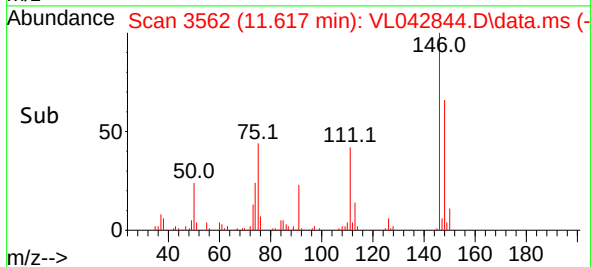
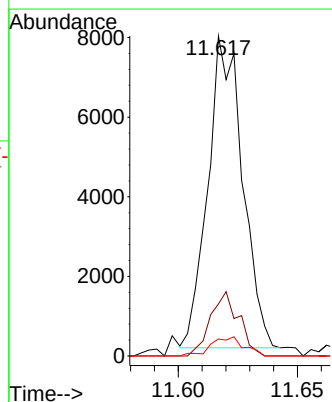
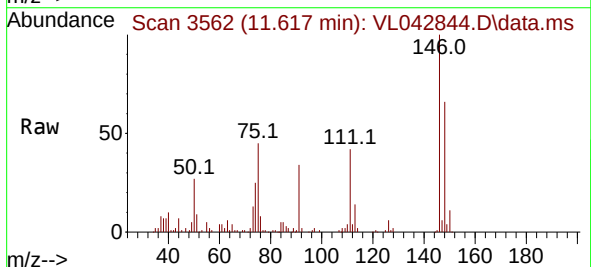
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

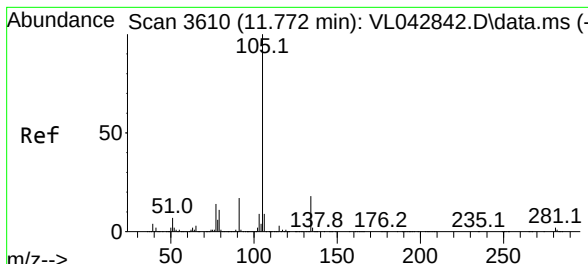
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 69617 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 79.3  | 63.9  | 95.9  |
| 134      | 20.9  | 17.0  | 25.4  |



#66  
Benzyl Chloride  
Concen: 0.993 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 7900  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 126      | 16.9  | 14.2  | 21.4  |
| 128      | 5.8   | 5.0   | 7.6   |

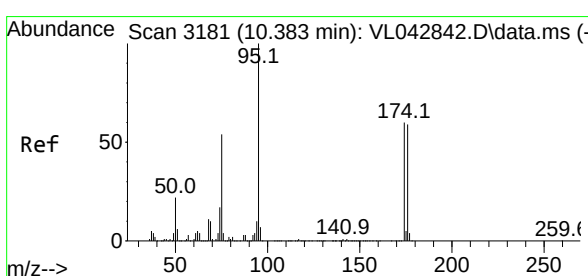
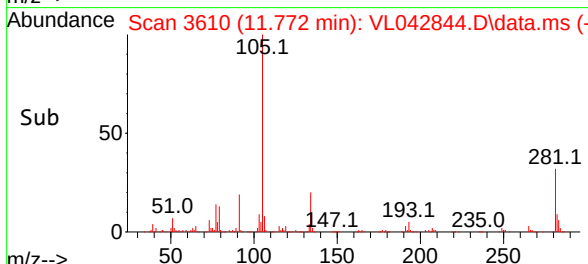
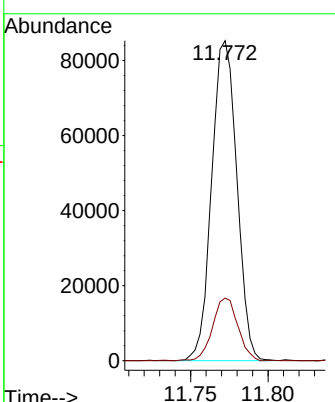
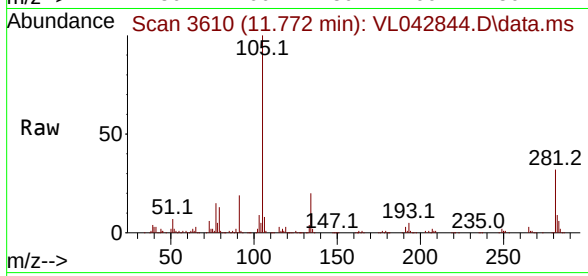




#67  
 sec-Butylbenzene  
 Concen: 1.095 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

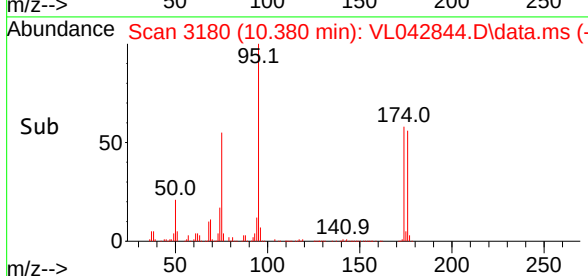
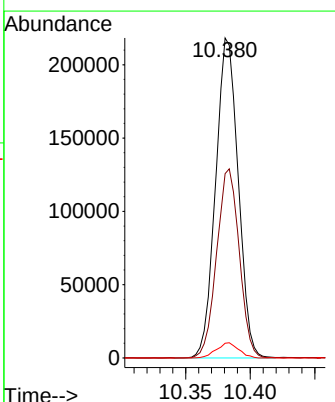
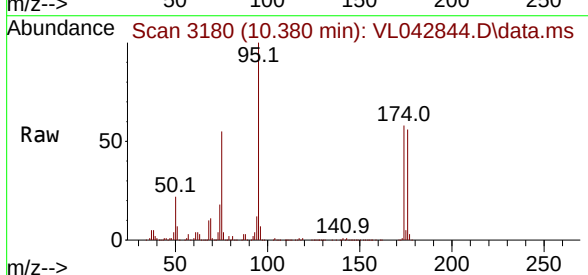
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDICC001

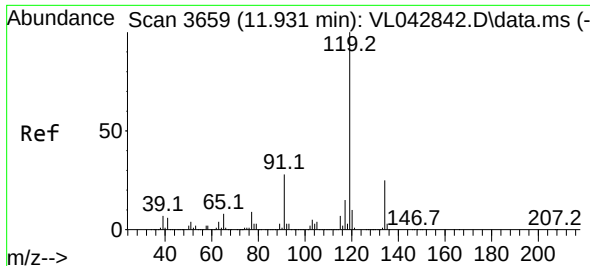
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 96288 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 134       | 19.7  | 14.9  | 22.3  |



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.135 ppbv  
 RT: 10.380 min Scan# 3180  
 Delta R.T. -0.003 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 95    | Resp: | 265708 |
| Ion Ratio | Lower | Upper |        |
| 95        | 100   |       |        |
| 174       | 59.1  | 48.4  | 72.6   |
| 175       | 4.7   | 3.8   | 5.8    |

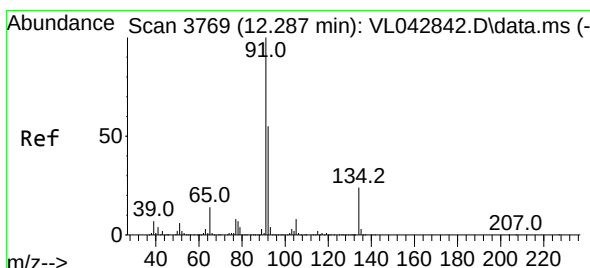
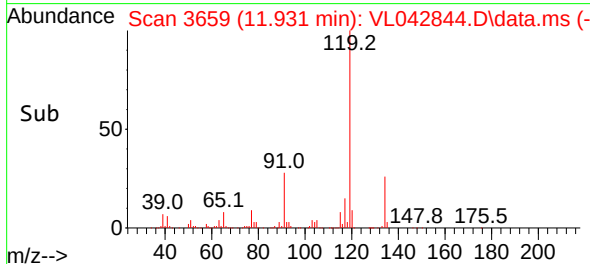
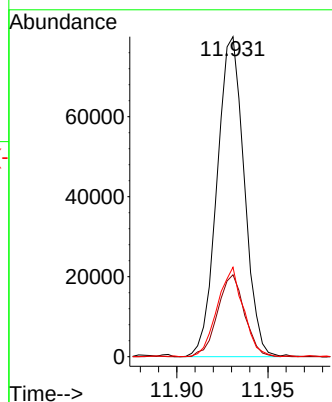
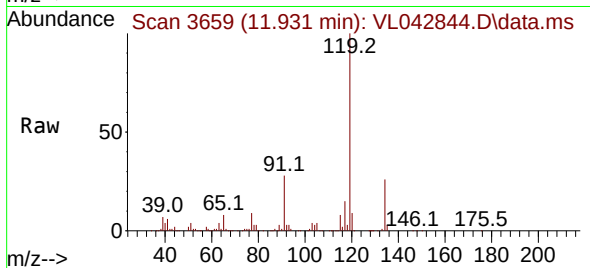




#69  
 p-Isopropyltoluene  
 Concen: 1.098 ppbv  
 RT: 11.931 min Scan# 3659  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

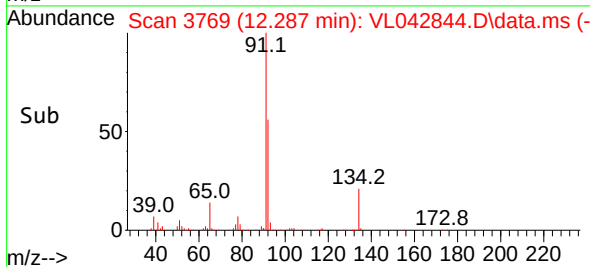
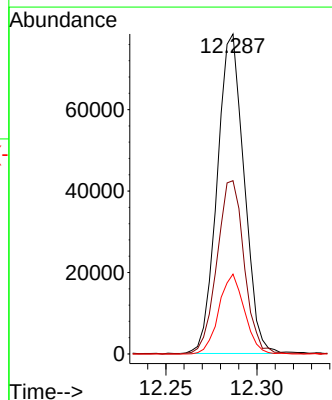
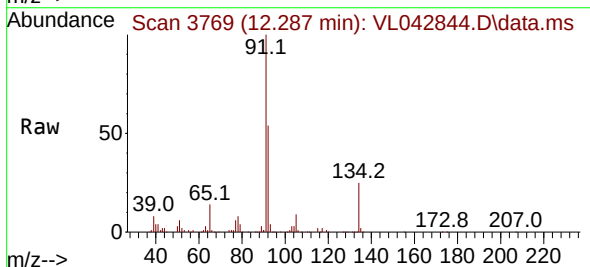
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC001

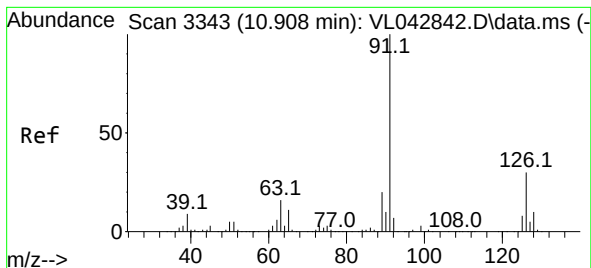
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 82934 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 25.3  | 20.6  | 30.8  |
| 91       | 27.2  | 22.6  | 34.0  |



#70  
 n-Butylbenzene  
 Concen: 1.075 ppbv  
 RT: 12.287 min Scan# 3769  
 Delta R.T. 0.000 min  
 Lab File: VL042844.D  
 Acq: 13 Aug 2025 09:41

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 80511 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 55.2  | 44.6  | 66.8  |
| 134      | 23.7  | 19.0  | 28.4  |

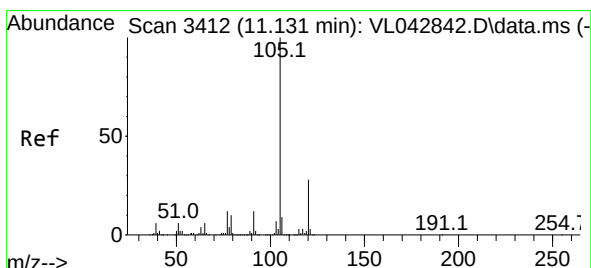
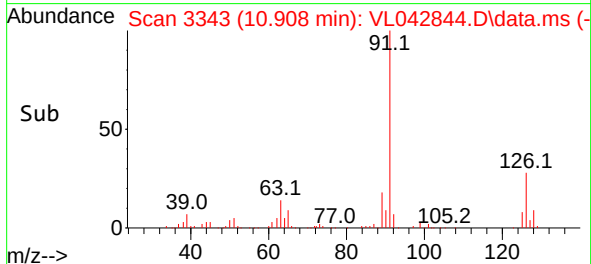
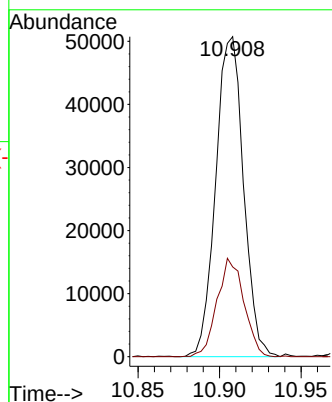
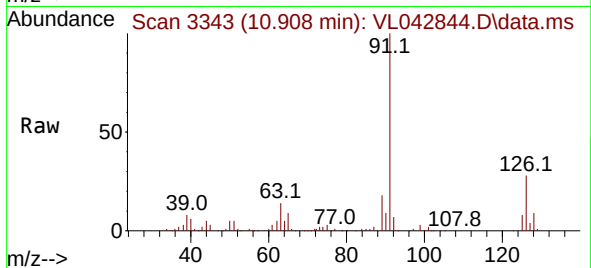




#71  
2-Chlorotoluene  
Concen: 1.089 ppbv  
RT: 10.908 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

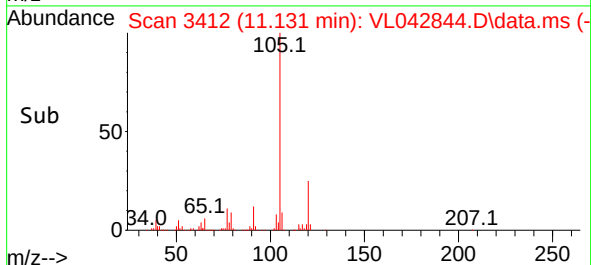
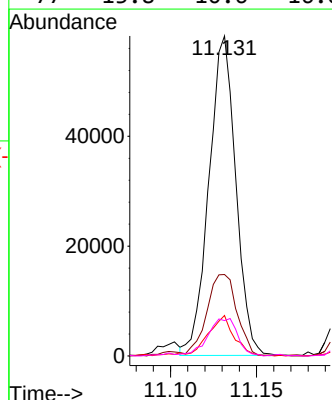
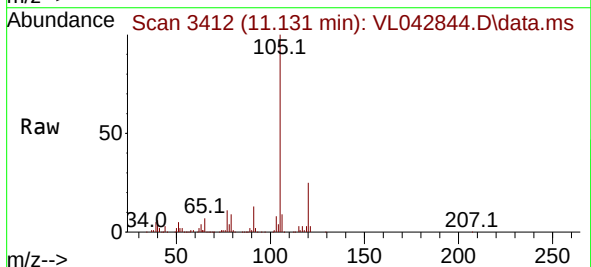
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

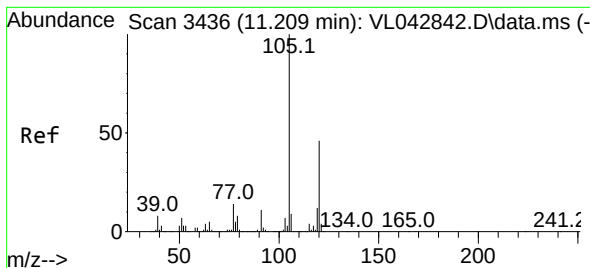
Tgt Ion: 91 Resp: 60086  
Ion Ratio Lower Upper  
91 100  
126 29.7 12.0 47.8



#72  
4-Ethyltoluene  
Concen: 1.071 ppbv  
RT: 11.131 min Scan# 3412  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

Tgt Ion: 105 Resp: 63147  
Ion Ratio Lower Upper  
105 100  
120 29.9 23.4 35.2  
91 13.0 9.8 14.6  
77 13.8 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 1.070 ppbv

RT: 11.206 min Scan# 3436

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_1

ClientSampleId :

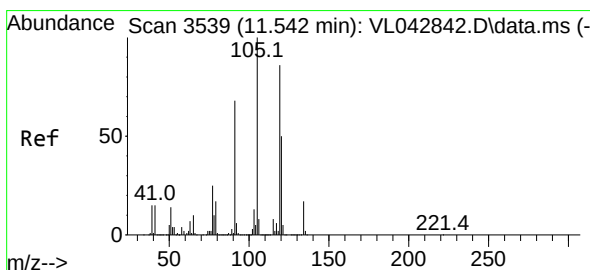
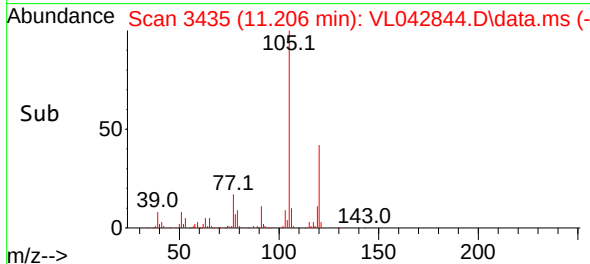
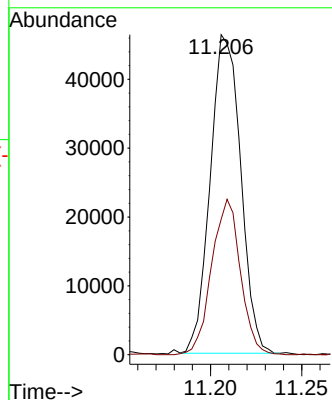
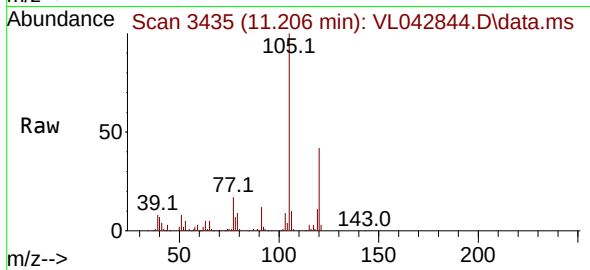
VSTDIC001

Tgt Ion:105 Resp: 53676

Ion Ratio Lower Upper

105 100

120 42.3 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 1.083 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Tgt Ion:105 Resp: 59633

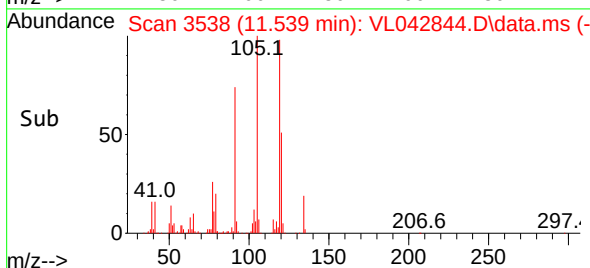
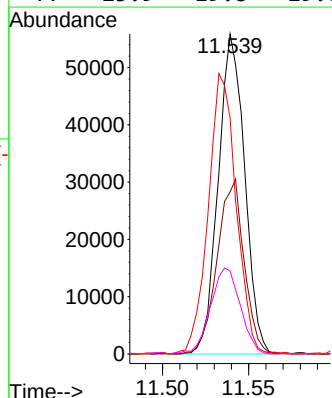
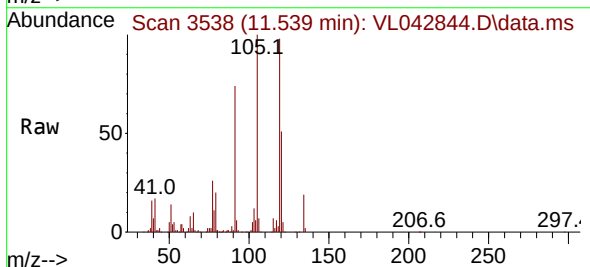
Ion Ratio Lower Upper

105 100

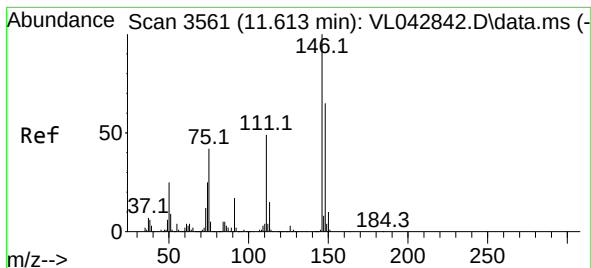
120 50.7 39.8 59.6

91 73.3 54.2 81.4

77 25.9 19.8 29.6







#75

1,3-Dichlorobenzene

Concen: 1.057 ppbv

RT: 11.610 min Scan# 3561

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC001

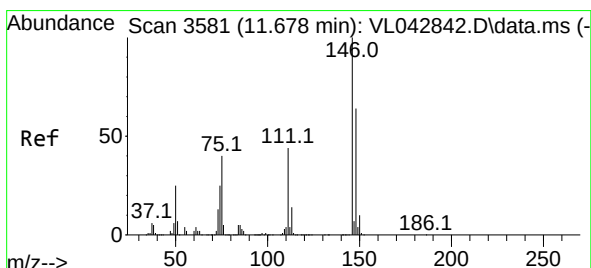
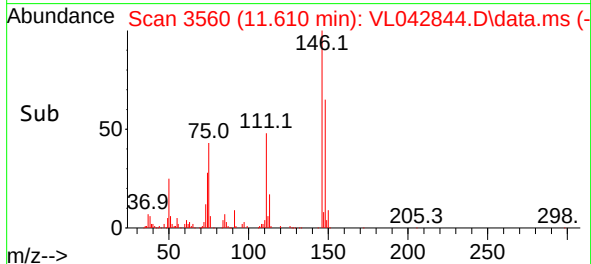
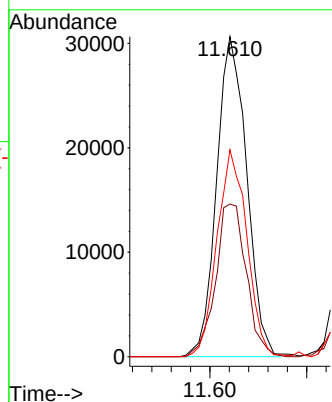
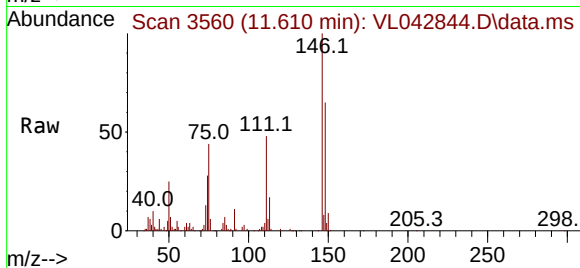
Tgt Ion:146 Resp: 33061

Ion Ratio Lower Upper

146 100

111 48.6 23.9 71.7

148 64.1 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 1.045 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. -0.003 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

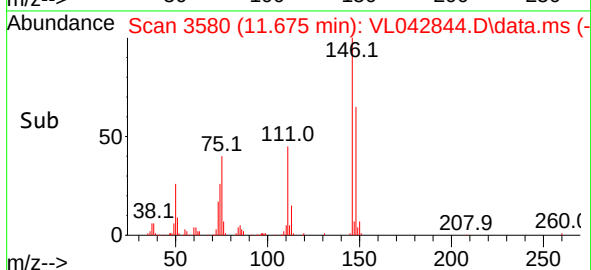
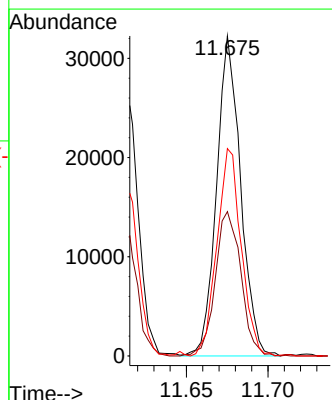
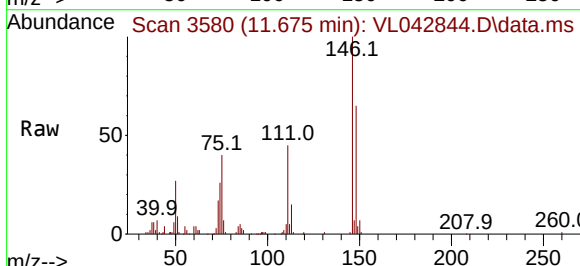
Tgt Ion:146 Resp: 33064

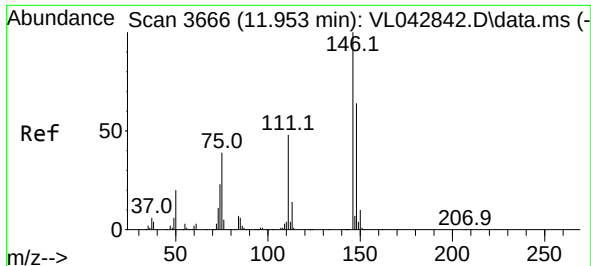
Ion Ratio Lower Upper

146 100

111 48.1 22.7 68.1

148 66.0 31.8 95.3

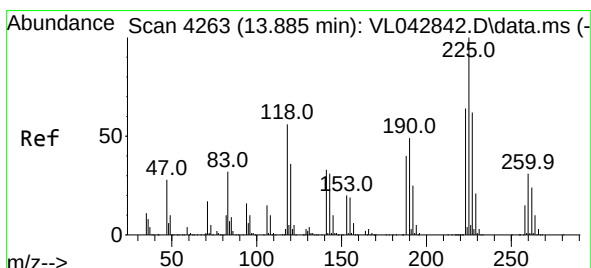
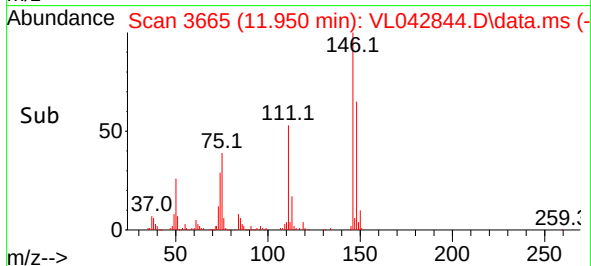
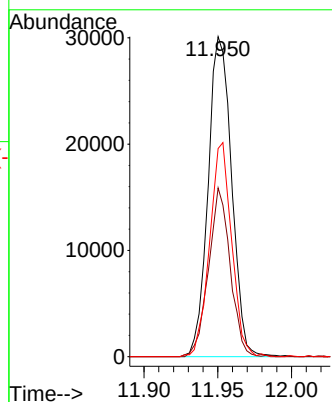
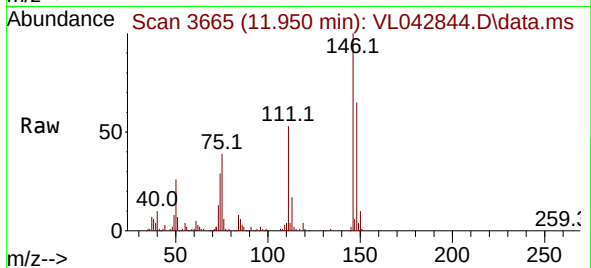




#77  
1,2-Dichlorobenzene  
Concen: 1.090 ppbv  
RT: 11.950 min Scan# 3665  
Delta R.T. -0.003 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

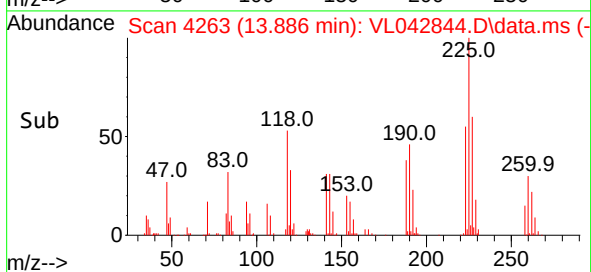
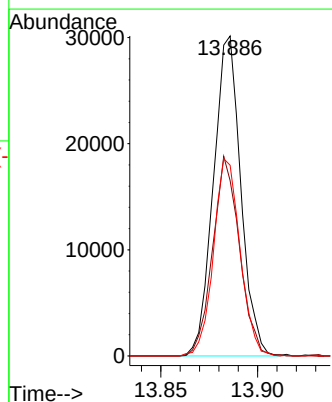
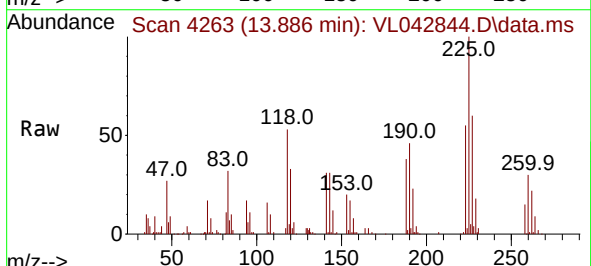
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC001

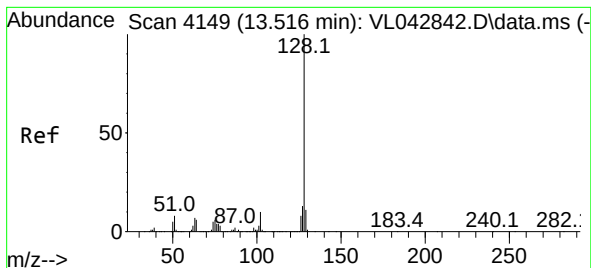
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 33404     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 48.4  | 24.6 74.0 |
| 148         | 62.7  | 32.0 96.0 |



#78  
Hexachloro-1,3-Butadiene  
Concen: 1.177 ppbv  
RT: 13.886 min Scan# 4263  
Delta R.T. 0.000 min  
Lab File: VL042844.D  
Acq: 13 Aug 2025 09:41

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 29555     |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 61.2  | 51.4 77.2 |
| 227         | 60.0  | 51.9 77.9 |





#79

Naphthalene

Concen: 1.169 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC001

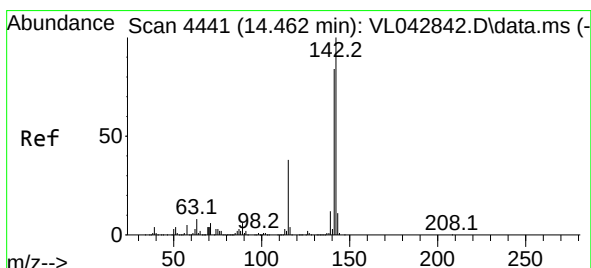
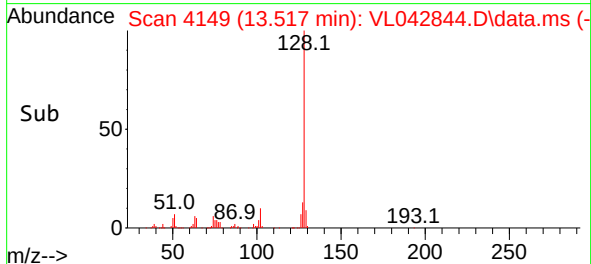
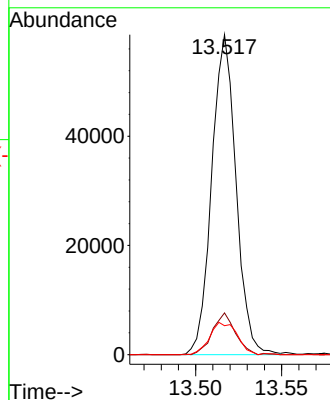
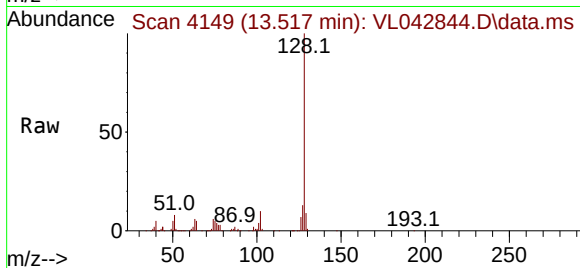
Tgt Ion:128 Resp: 57580

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 9.1 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 1.045 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042844.D

Acq: 13 Aug 2025 09:41

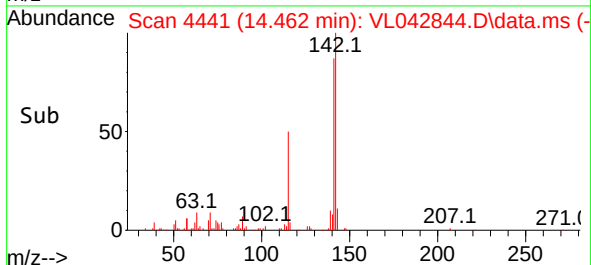
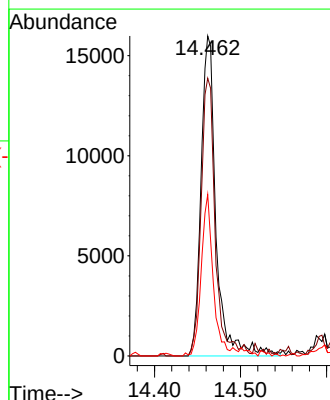
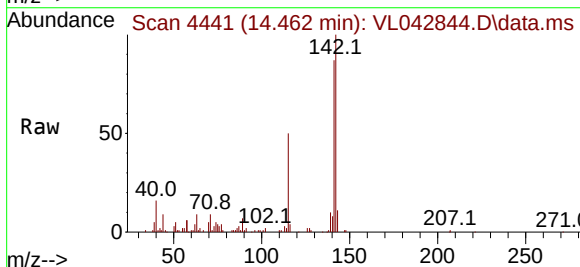
Tgt Ion:142 Resp: 19375

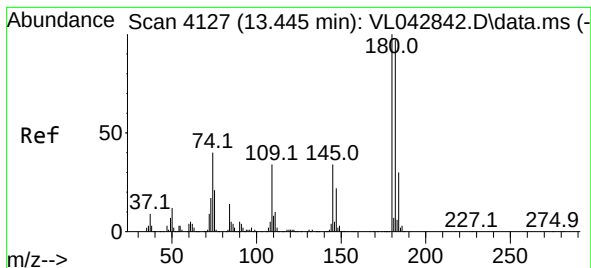
Ion Ratio Lower Upper

142 100

141 81.6 67.0 100.6

115 43.2 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 1.111 ppbv

RT: 13.442 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042844.D

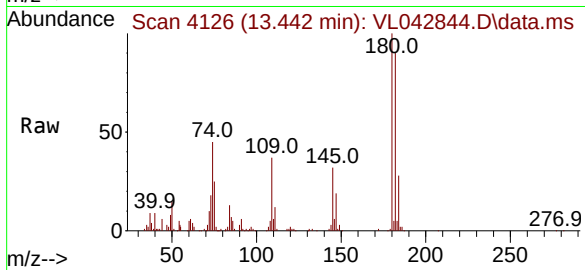
Acq: 13 Aug 2025 09:41

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC001



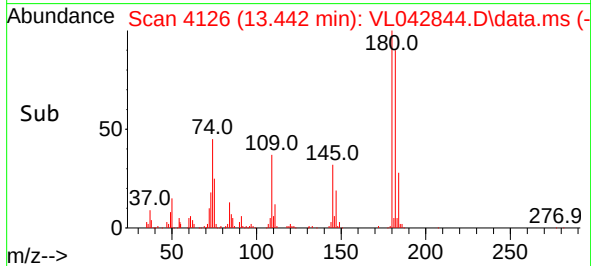
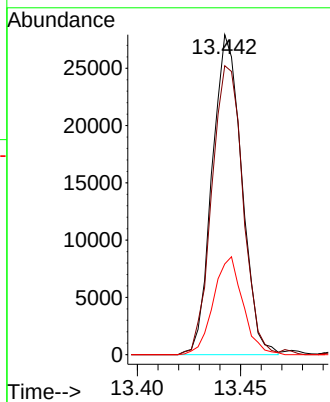
Tgt Ion:180 Resp: 27861

Ion Ratio Lower Upper

180 100

182 95.5 76.9 115.3

184 30.3 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042845.D  
 Acq On : 13 Aug 2025 10:17  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

Quant Time: Aug 14 01:48:25 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.797 | 49   | 126879   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.968 | 114  | 396264   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.895 | 117  | 348005   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 10.387 95 262663 10.064 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 100.600%

#### Target Compounds

|                               |       |     |       |       | Qvalue |     |
|-------------------------------|-------|-----|-------|-------|--------|-----|
| 2) Dichlorodifluoromethane    | 1.502 | 85  | 9937  | 0.534 | ppbv   | 100 |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 11115 | 0.540 | ppbv   | 96  |
| 4) Chloromethane              | 1.538 | 50  | 4112  | 0.548 | ppbv   | 90  |
| 5) Vinyl Chloride             | 1.586 | 62  | 3762  | 0.509 | ppbv   | 94  |
| 6) Bromomethane               | 1.674 | 94  | 1576  | 0.533 | ppbv   | 82  |
| 7) Chloroethane               | 1.709 | 64  | 1690  | 0.586 | ppbv # | 85  |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 8079  | 0.531 | ppbv   | 95  |
| 9) Propene                    | 1.489 | 41  | 5225  | 0.589 | ppbv   | 91  |
| 10) Heptane                   | 4.998 | 43  | 12747 | 0.537 | ppbv   | 93  |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 10238 | 0.558 | ppbv   | 98  |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 7984  | 0.546 | ppbv   | 98  |
| 13) Ethanol                   | 1.725 | 45  | 562   | 0.639 | ppbv # | 1   |
| 14) Bromoethene               | 1.787 | 108 | 2932  | 0.554 | ppbv # | 85  |
| 15) Acetone                   | 1.842 | 43  | 10836 | 0.646 | ppbv   | 98  |
| 16) 1,3-Butadiene             | 1.612 | 39  | 4970  | 0.653 | ppbv   | 99  |
| 17) tert-Butyl alcohol        | 2.049 | 59  | 12182 | 0.612 | ppbv # | 89  |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 3501  | 0.545 | ppbv   | 92  |
| 19) Isopropyl Alcohol         | 1.891 | 45  | 6194  | 0.618 | ppbv # | 56  |
| 20) Methylene Chloride        | 2.069 | 84  | 5025  | 0.715 | ppbv   | 90  |
| 21) Allyl Chloride            | 2.104 | 41  | 7120  | 0.600 | ppbv # | 76  |
| 22) trans-1,2-Dichloroethene  | 2.350 | 96  | 3996  | 0.556 | ppbv   | 96  |
| 23) Vinyl Acetate             | 2.470 | 43  | 13709 | 0.621 | ppbv # | 98  |
| 24) 1,1-Dichloroethane        | 2.418 | 63  | 8354  | 0.562 | ppbv # | 96  |
| 25) Ethyl Acetate             | 2.845 | 43  | 22148 | 0.545 | ppbv # | 96  |
| 26) Hexane                    | 2.832 | 57  | 9879  | 0.527 | ppbv   | 85  |
| 27) Carbon Disulfide          | 2.156 | 76  | 9539  | 0.523 | ppbv # | 1   |
| 28) Methyl tert-Butyl Ether   | 2.447 | 73  | 5284  | 0.553 | ppbv # | 62  |
| 29) Chloroform                | 2.858 | 83  | 14586 | 0.545 | ppbv   | 100 |
| 30) Cyclohexane               | 3.868 | 84  | 9037  | 0.550 | ppbv   | 94  |
| 31) cis-1,2-Dichloroethene    | 2.729 | 61  | 10308 | 0.550 | ppbv # | 86  |
| 32) 1,1,1-Trichloroethane     | 3.379 | 97  | 14011 | 0.494 | ppbv   | 97  |
| 34) 2-Butanone                | 2.567 | 43  | 14923 | 0.558 | ppbv   | 100 |
| 35) Carbon Tetrachloride      | 3.774 | 117 | 13507 | 0.494 | ppbv   | 97  |
| 36) Benzene                   | 3.671 | 78  | 20073 | 0.529 | ppbv   | 98  |
| 37) 1,2-Dichloroethane        | 3.230 | 62  | 10141 | 0.512 | ppbv # | 93  |
| 38) Trichloroethene           | 4.564 | 130 | 9918  | 0.572 | ppbv # | 88  |
| 39) 1,2-Dichloropropane       | 4.334 | 63  | 7491  | 0.541 | ppbv   | 86  |
| 40) 1,4-Dioxane               | 4.613 | 88  | 2065  | 0.318 | ppbv # | 1   |
| 41) Tetrahydrofuran           | 3.072 | 42  | 7827  | 0.525 | ppbv   | 93  |
| 42) Bromodichloromethane      | 4.509 | 83  | 15580 | 0.527 | ppbv # | 94  |
| 43) Methyl Methacrylate       | 4.897 | 69  | 7529  | 0.484 | ppbv   | 89  |
| 44) 2,2,4-Trimethylpentane    | 4.651 | 57  | 16770 | 0.263 | ppbv # | 40  |
| 45) t-1,3-Dichloropropene     | 6.435 | 75  | 5507  | 0.312 | ppbv   | 90  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042845.D  
 Acq On : 13 Aug 2025 10:17  
 Operator : SY/MD  
 Sample : VSTDICC0.5  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.5

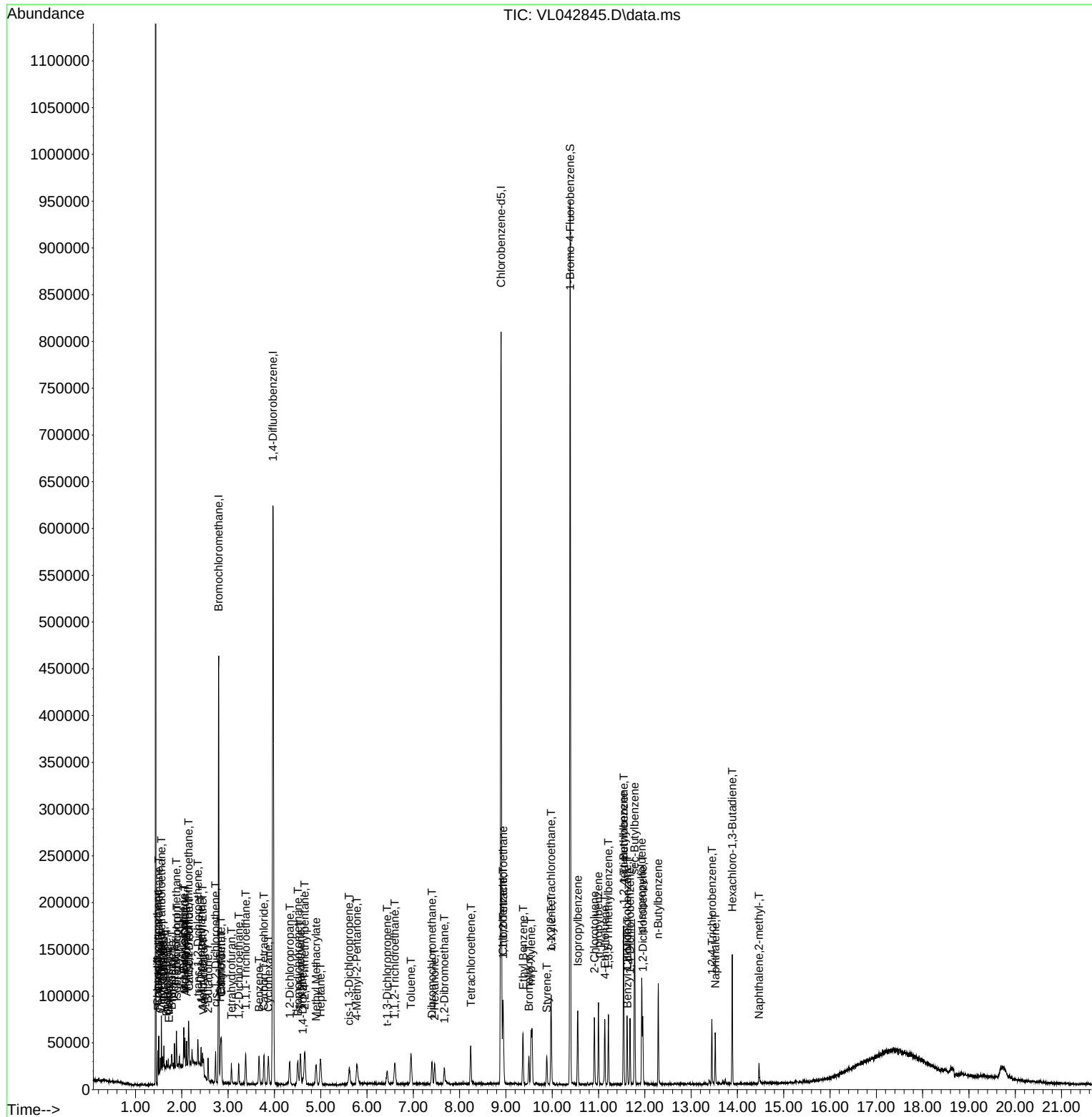
Quant Time: Aug 14 01:48:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

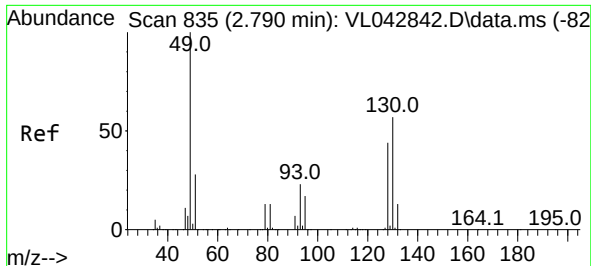
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.613  | 75   | 4895     | 0.221 | ppbv   | 89       |
| 47) 1,1,2-Trichloroethane     | 6.597  | 97   | 3140     | 0.214 | ppbv   | 90       |
| 48) Dibromochloromethane      | 7.406  | 129  | 11805    | 0.497 | ppbv   | 100      |
| 49) Bromoform                 | 9.497  | 173  | 9232     | 0.471 | ppbv   | 95       |
| 50) 4-Methyl-2-Pentanone      | 5.778  | 43   | 11657    | 0.321 | ppbv # | 52       |
| 51) 2-Hexanone                | 7.458  | 43   | 14329    | 0.503 | ppbv # | 99       |
| 52) Tetrachloroethene         | 8.244  | 164  | 7304     | 0.531 | ppbv # | 87       |
| 53) Toluene                   | 6.949  | 91   | 14358    | 0.318 | ppbv # | 41       |
| 54) 1,2-Dibromoethane         | 7.668  | 107  | 10873    | 0.507 | ppbv   | 90       |
| 56) 1,1,1,2-Tetrachloroethane | 8.940  | 131  | 9300     | 0.517 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.937  | 112  | 17845    | 0.539 | ppbv # | 96       |
| 58) Ethyl Benzene             | 9.370  | 91   | 32261    | 0.525 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.542  | 91   | 27059    | 0.561 | ppbv # | 100      |
| 60) o-Xylene                  | 9.979  | 91   | 26662    | 0.551 | ppbv   | 100      |
| 61) Styrene                   | 9.885  | 104  | 12379    | 0.546 | ppbv   | 95       |
| 62) Isopropylbenzene          | 10.552 | 105  | 37401    | 0.529 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.976  | 83   | 13828    | 0.523 | ppbv   | 95       |
| 64) n-propylbenzene           | 10.998 | 120  | 9922     | 0.550 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.542 | 119  | 33183    | 0.532 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.626 | 91   | 4039     | 0.510 | ppbv # | 97       |
| 67) sec-Butylbenzene          | 11.778 | 105  | 46433    | 0.530 | ppbv   | 96       |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 40686    | 0.541 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.290 | 91   | 38867    | 0.521 | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.911 | 91   | 29736    | 0.541 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.138 | 105  | 30234    | 0.515 | ppbv   | 97       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 26942    | 0.540 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.545 | 105  | 29750    | 0.543 | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 11.617 | 146  | 16311    | 0.524 | ppbv   | 95       |
| 76) 1,4-Dichlorobenzene       | 11.681 | 146  | 16803    | 0.533 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.956 | 146  | 16306    | 0.535 | ppbv   | 97       |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 14165    | 0.567 | ppbv   | 99       |
| 79) Naphthalene               | 13.520 | 128  | 24056    | 0.491 | ppbv   | 96       |
| 80) Naphthalene,2-methyl-     | 14.465 | 142  | 7482     | 0.405 | ppbv   | 95       |
| 81) 1,2,4-Trichlorobenzene    | 13.449 | 180  | 10844    | 0.434 | ppbv   | 97       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC0.5

Quant Time: Aug 14 01:48:25 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Thu Aug 14 01:44:36 2025  
Response via : Initial Calibration

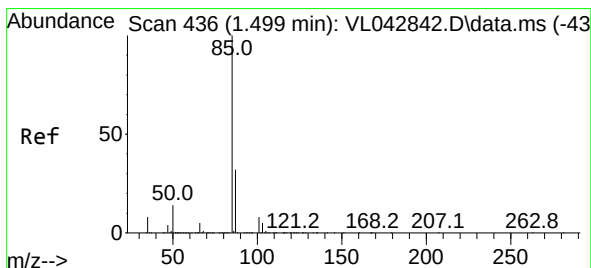
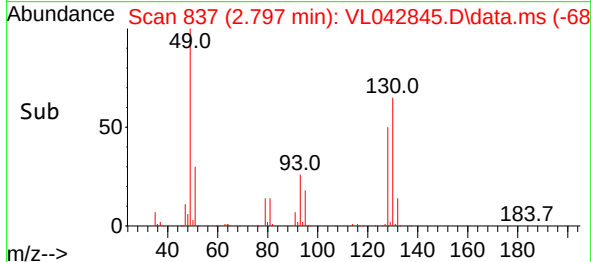
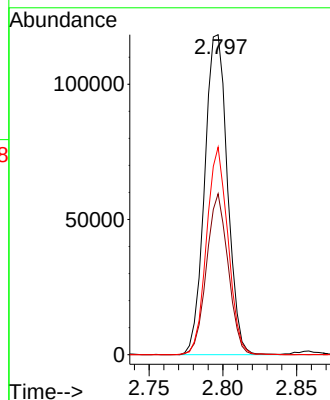
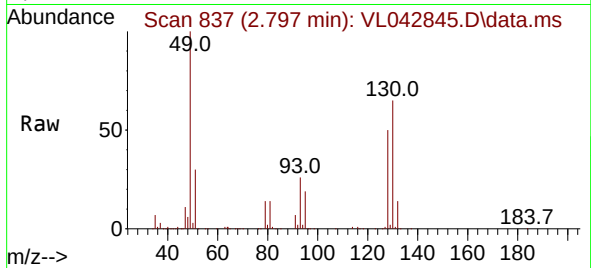




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.797 min Scan# 835  
Delta R.T. 0.007 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

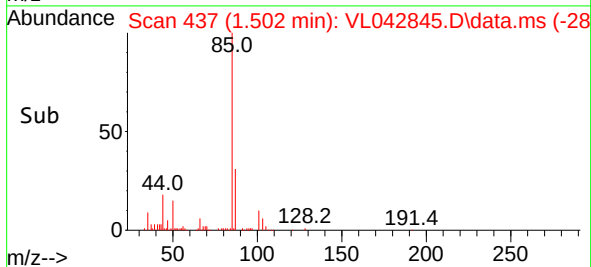
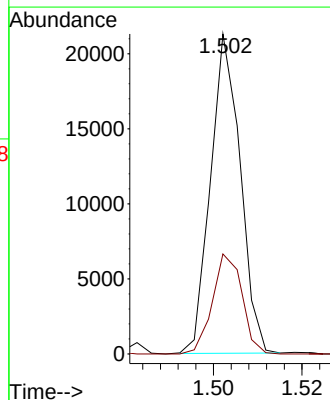
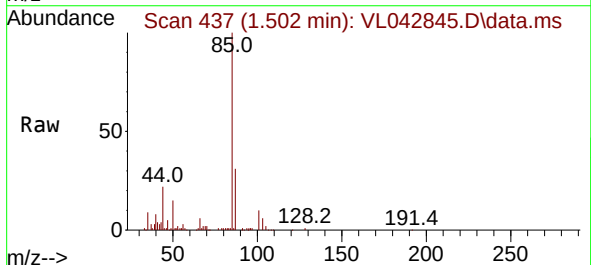
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 49 Resp: 126879  
Ion Ratio Lower Upper  
49 100  
128 47.7 23.7 71.1  
130 60.9 30.6 91.6

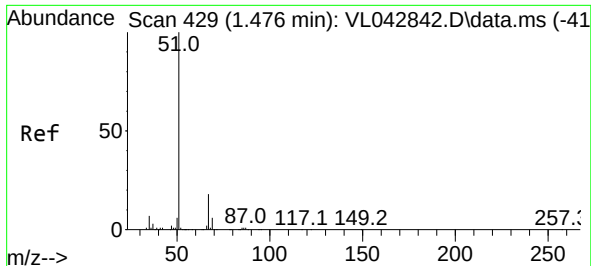


#2  
Dichlorodifluoromethane  
Concen: 0.534 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 9937  
Ion Ratio Lower Upper  
85 100  
87 31.3 25.3 37.9



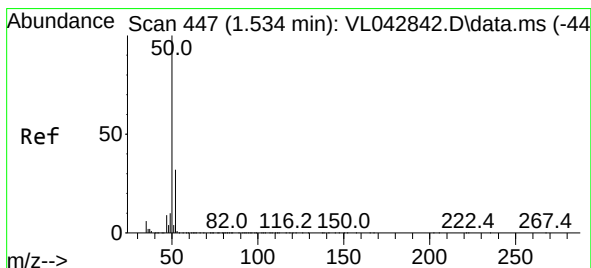
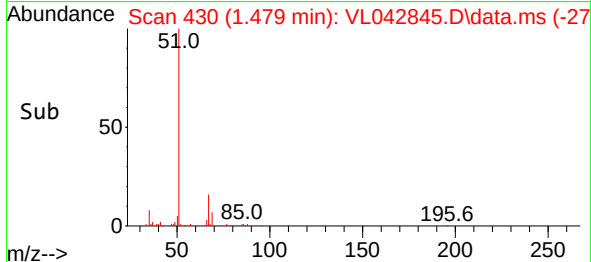
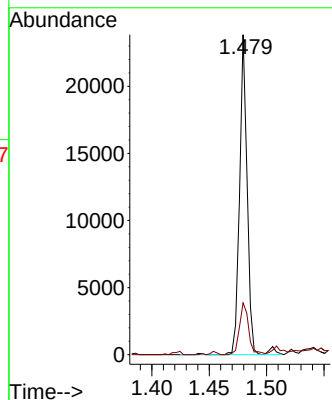
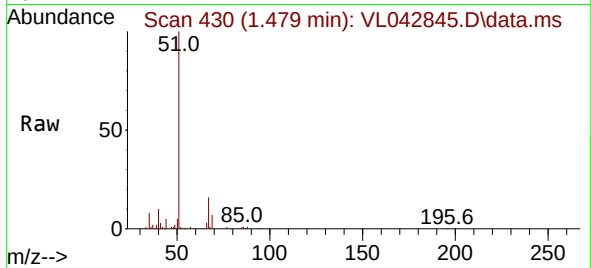




#3  
Chlorodifluoromethane  
Concen: 0.540 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

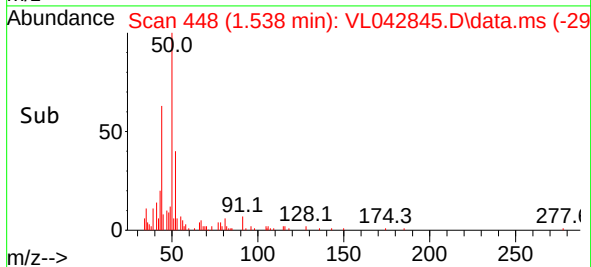
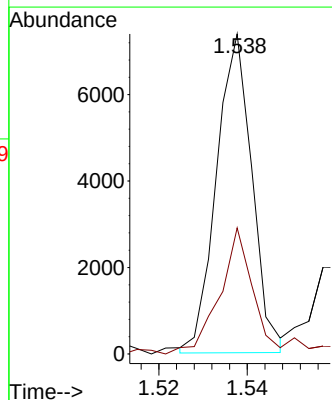
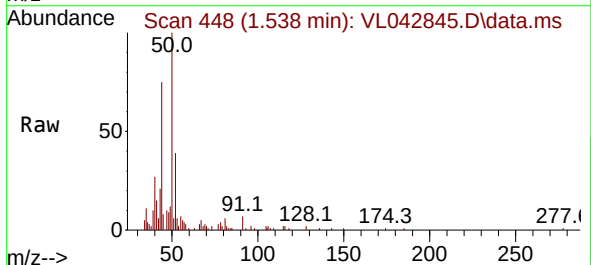
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

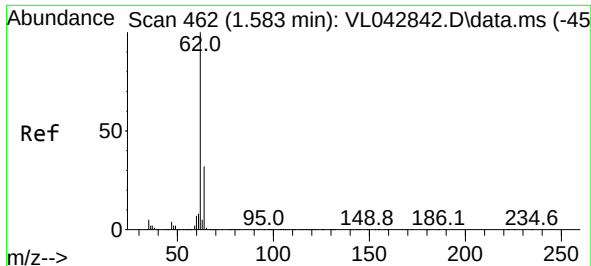
Tgt Ion: 51 Resp: 11115  
Ion Ratio Lower Upper  
51 100  
67 20.5 14.9 22.3



#4  
Chloromethane  
Concen: 0.548 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 50 Resp: 4112  
Ion Ratio Lower Upper  
50 100  
52 38.2 25.9 38.9

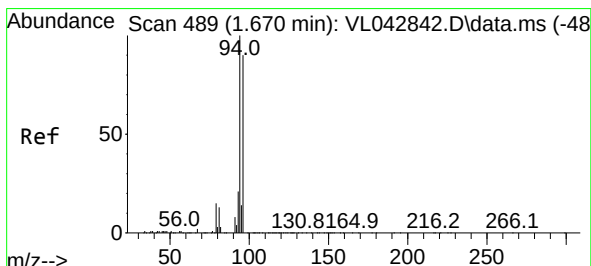
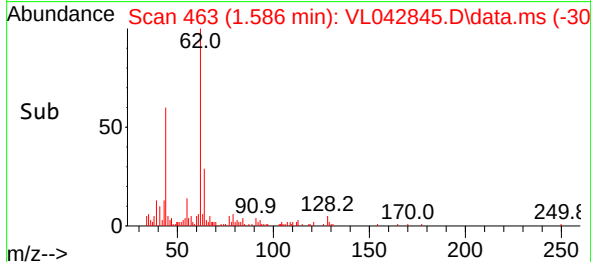
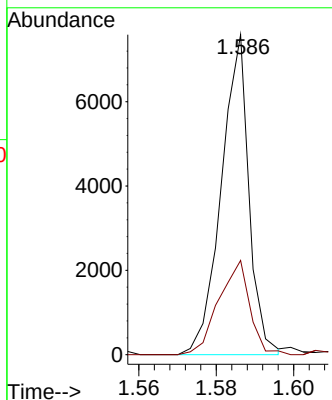
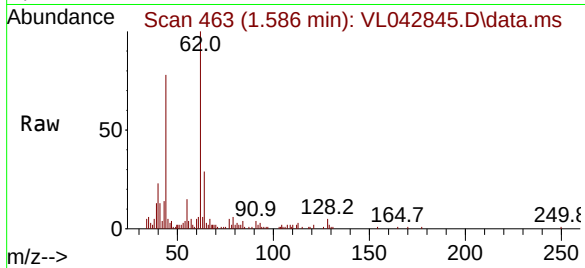




#5  
 Vinyl Chloride  
 Concen: 0.509 ppbv  
 RT: 1.586 min Scan# 41  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

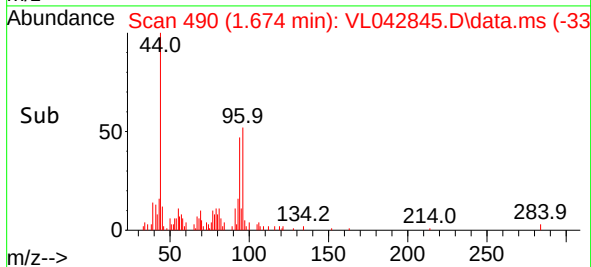
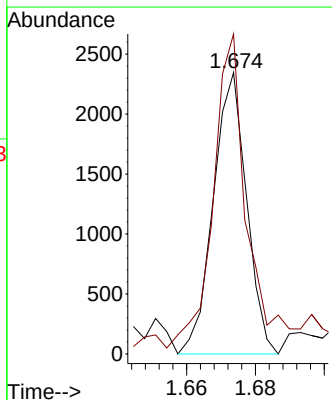
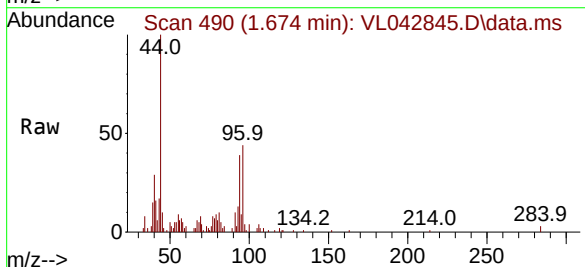
Instrument :  
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 ClientSampleId :  
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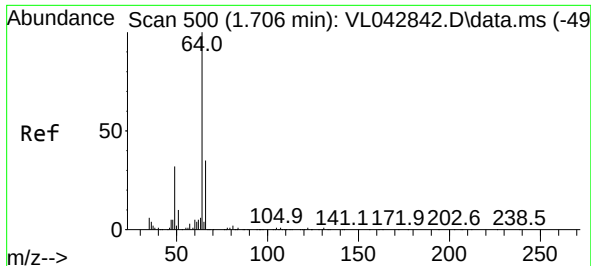
Tgt Ion: 62 Resp: 3762  
 Ion Ratio Lower Upper  
 62 100  
 64 28.3 25.4 38.2



#6  
 Bromomethane  
 Concen: 0.533 ppbv  
 RT: 1.674 min Scan# 490  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

Tgt Ion: 94 Resp: 1576  
 Ion Ratio Lower Upper  
 94 100  
 96 106.9 72.1 108.1

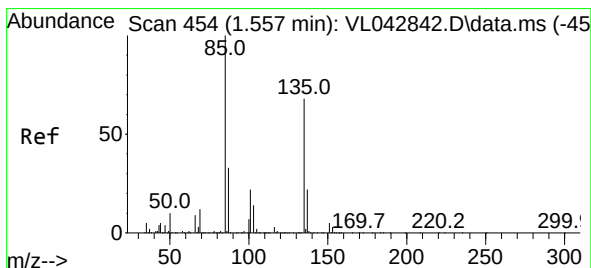
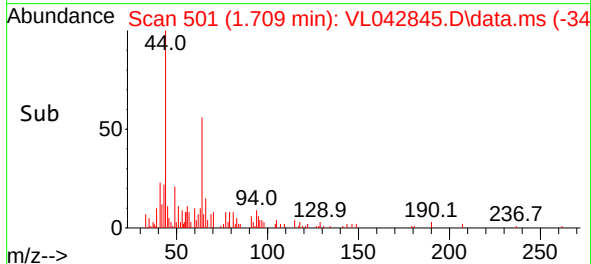
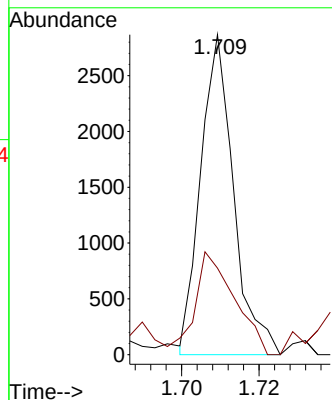
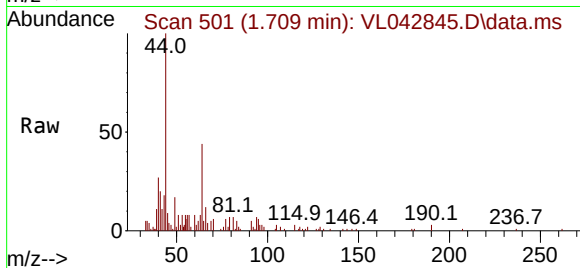




#7  
Chloroethane  
Concen: 0.586 ppbv  
RT: 1.709 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

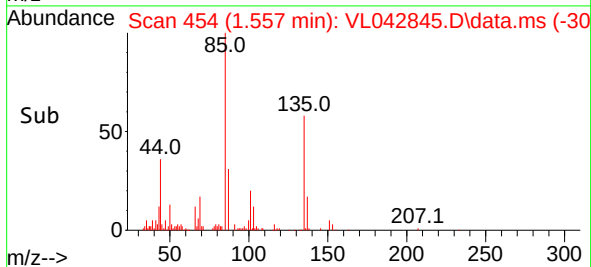
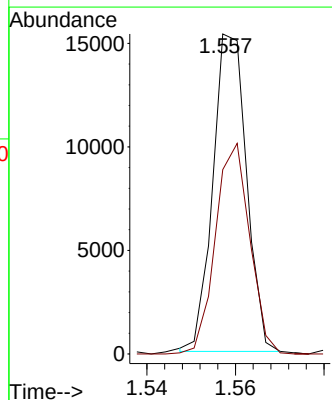
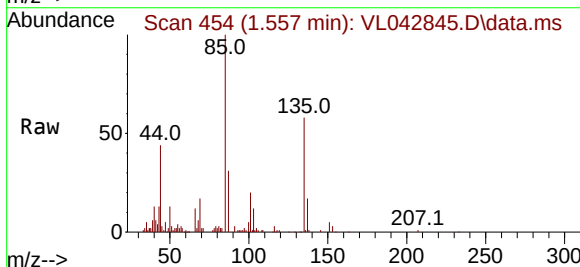
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

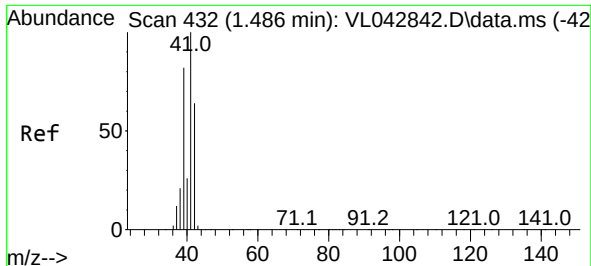
Tgt Ion: 64 Resp: 1690  
Ion Ratio Lower Upper  
64 100  
66 27.0 28.6 42.8#



#8  
Dichlorotetrafluoroethane  
Concen: 0.531 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 85 Resp: 8079  
Ion Ratio Lower Upper  
85 100  
135 67.7 51.2 76.8





#9

Propene

Concen: 0.589 ppbv

RT: 1.489 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

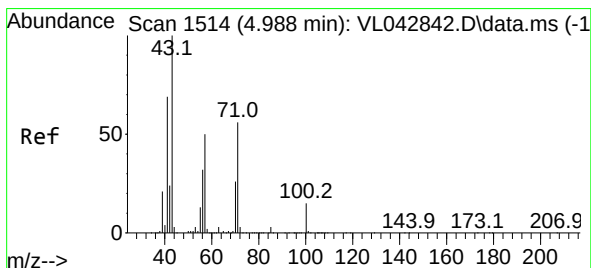
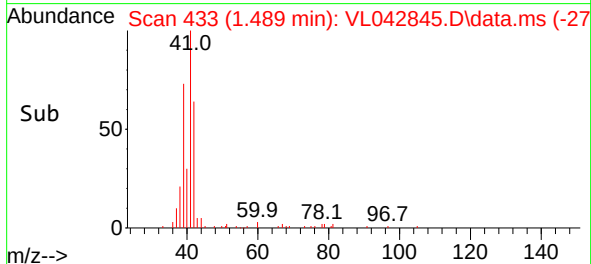
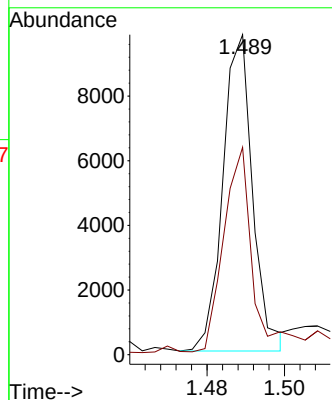
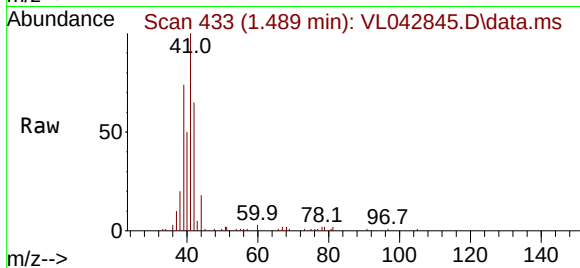
VSTDIC0.5

Tgt Ion: 41 Resp: 5225

Ion Ratio Lower Upper

41 100

42 73.7 53.0 79.4



#10

Heptane

Concen: 0.537 ppbv

RT: 4.998 min Scan# 1517

Delta R.T. 0.010 min

Lab File: VL042845.D

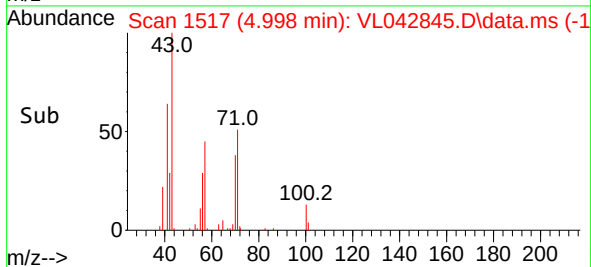
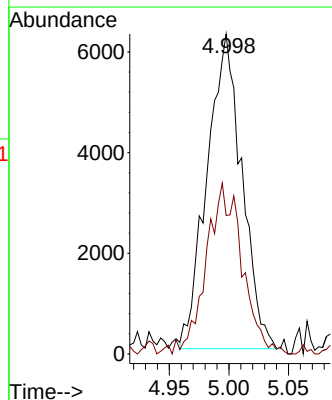
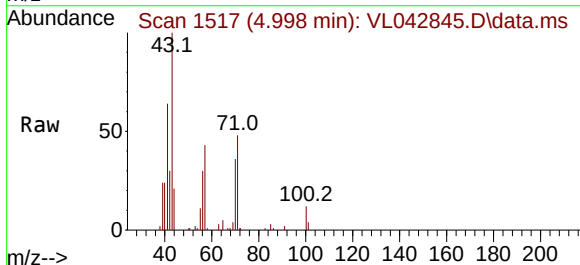
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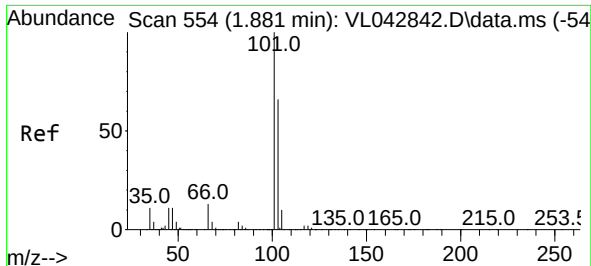
Tgt Ion: 43 Resp: 12747

Ion Ratio Lower Upper

43 100

57 56.9 41.4 62.0

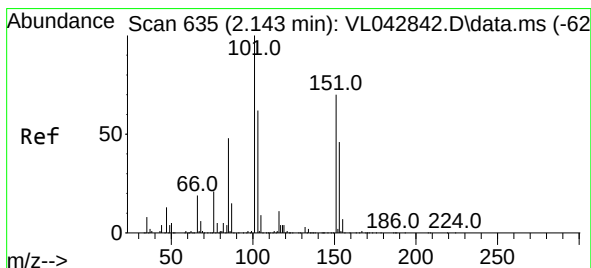
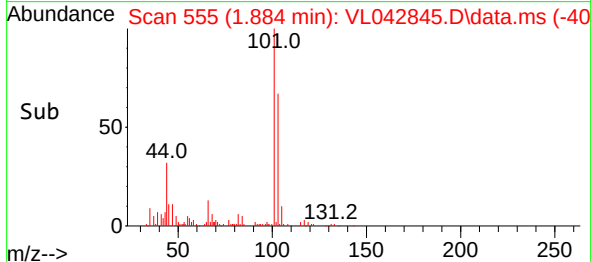
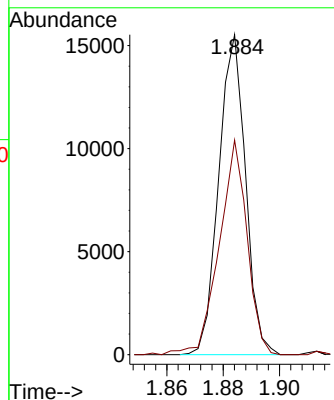
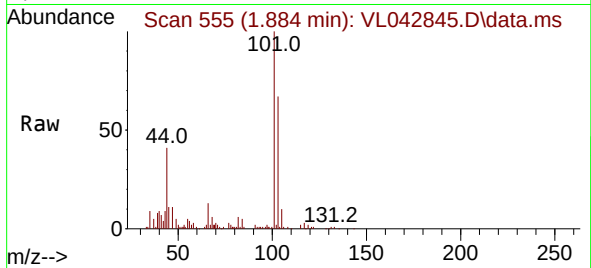




#11  
Trichlorofluoromethane  
Concen: 0.558 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

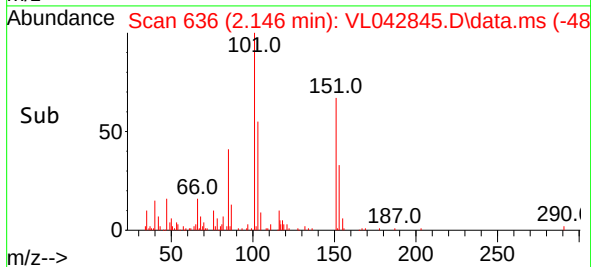
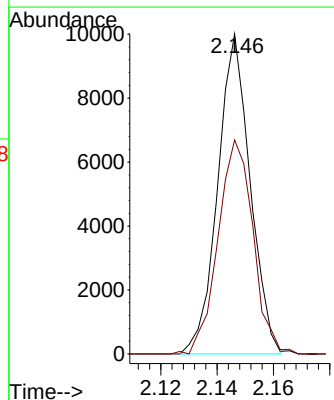
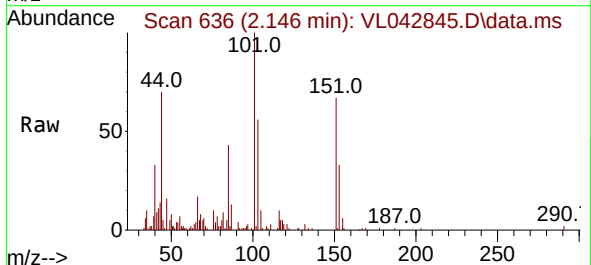
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ClientSampleId :  
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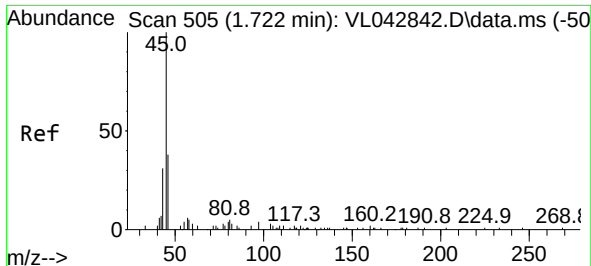
Tgt Ion:101 Resp: 10238  
Ion Ratio Lower Upper  
101 100  
103 67.0 52.5 78.7



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.546 ppbv  
RT: 2.146 min Scan# 636  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion:101 Resp: 7984  
Ion Ratio Lower Upper  
101 100  
151 72.3 56.4 84.6

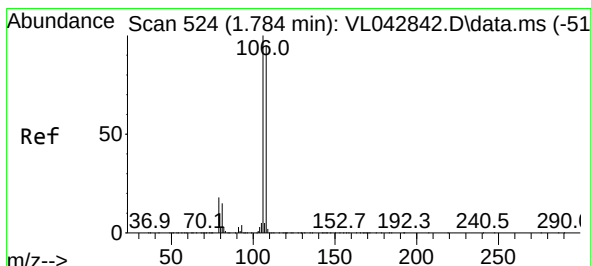
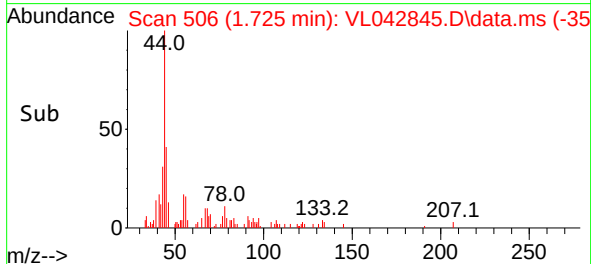
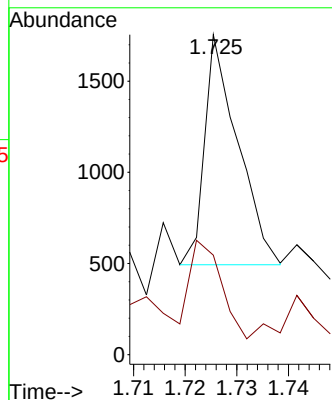
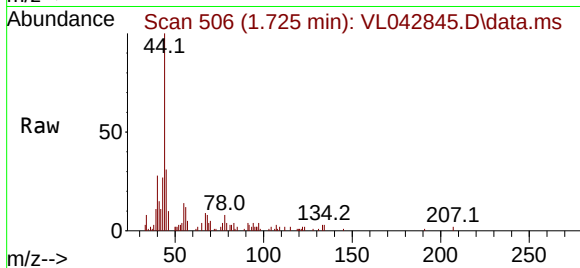




#13  
 Ethanol  
 Concen: 0.639 ppbv  
 RT: 1.725 min Scan# 505  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

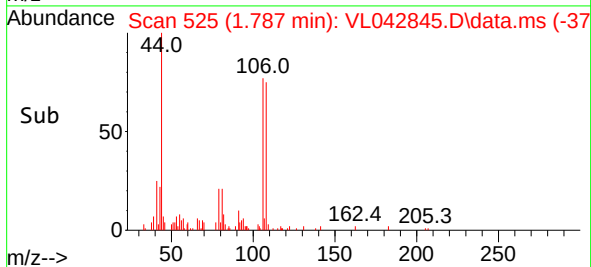
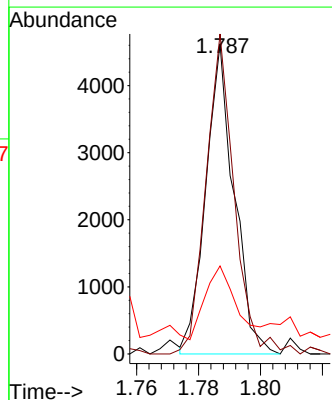
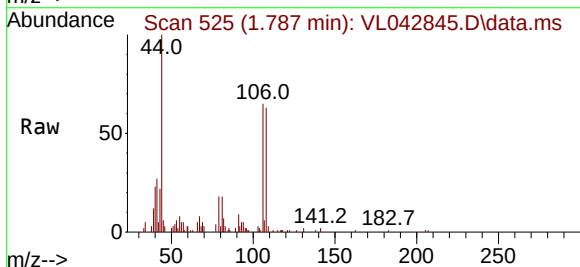
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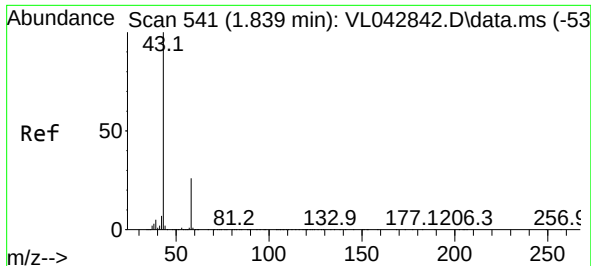
Tgt Ion: 45 Resp: 562  
 Ion Ratio Lower Upper  
 45 100  
 46 131.5 17.5 69.9#



#14  
 Bromoethene  
 Concen: 0.554 ppbv  
 RT: 1.787 min Scan# 525  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

Tgt Ion: 108 Resp: 2932  
 Ion Ratio Lower Upper  
 108 100  
 106 106.1 85.1 127.7  
 79 62.6 16.3 24.5#

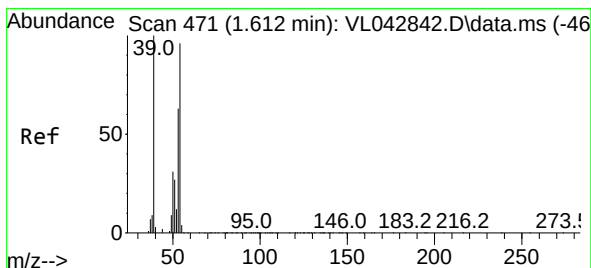
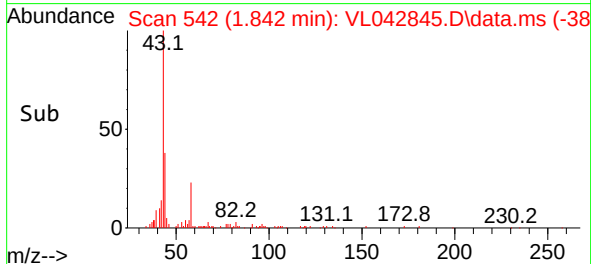
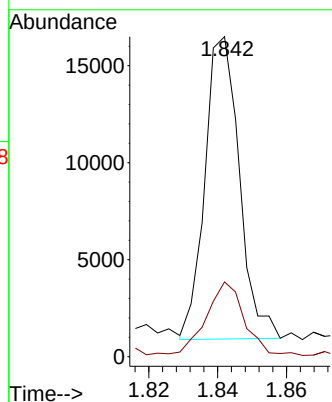
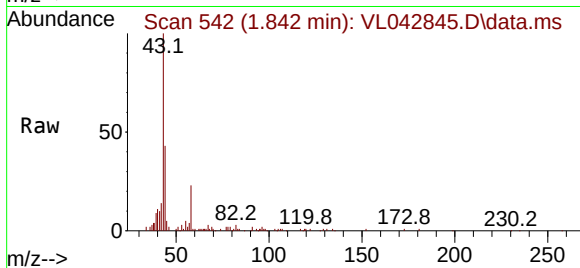




#15  
Acetone  
Concen: 0.646 ppbv  
RT: 1.842 min Scan# 541  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

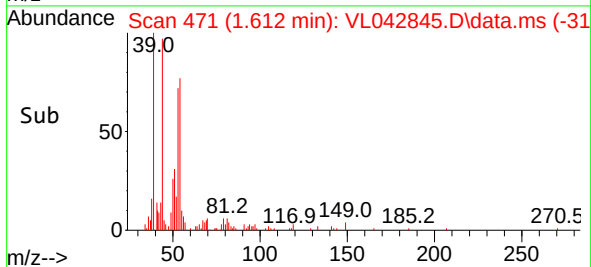
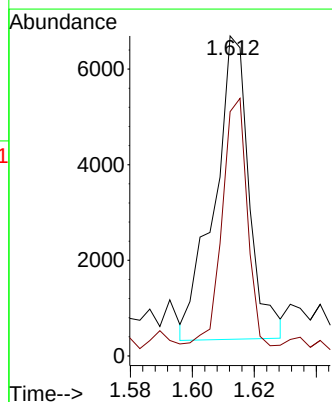
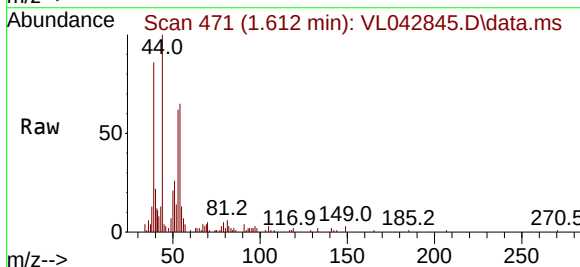
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MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

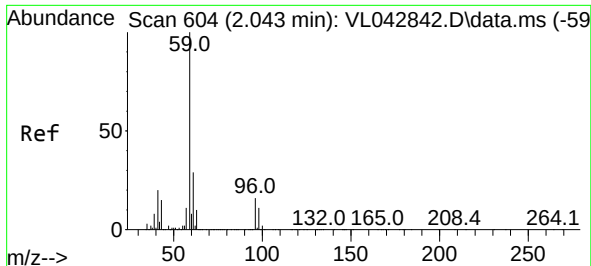
Tgt Ion: 43 Resp: 10836  
Ion Ratio Lower Upper  
43 100  
58 26.8 22.4 33.6



#16  
1,3-Butadiene  
Concen: 0.653 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 39 Resp: 4970  
Ion Ratio Lower Upper  
39 100  
54 78.6 63.6 95.4

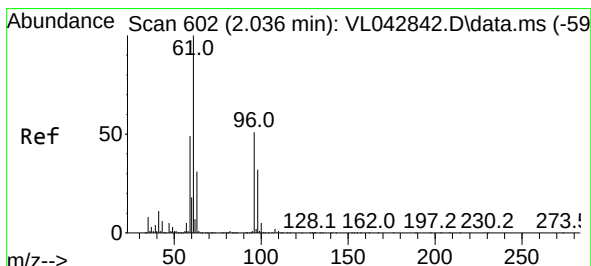
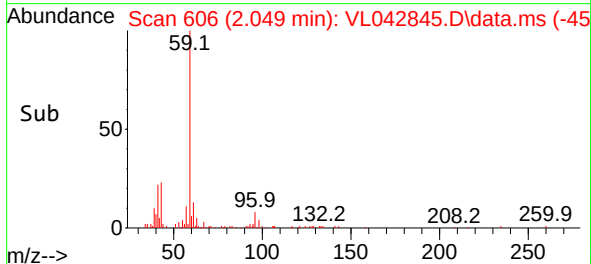
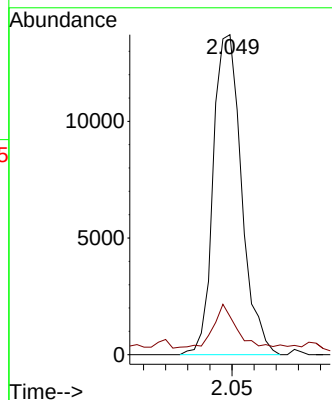
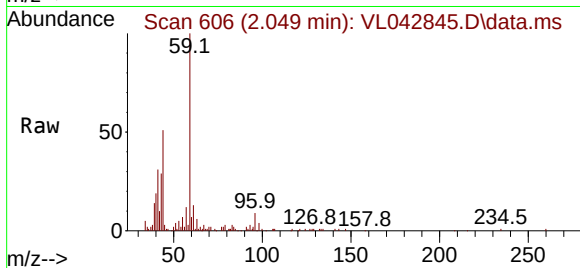




#17  
tert-Butyl alcohol  
Concen: 0.612 ppbv  
RT: 2.049 min Scan# 604  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

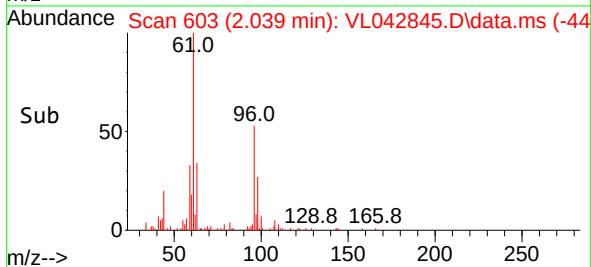
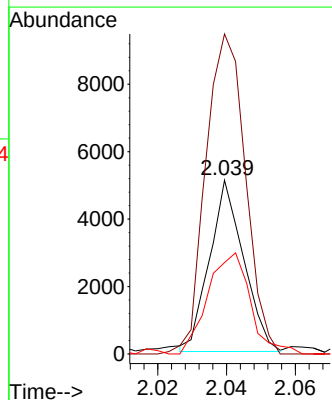
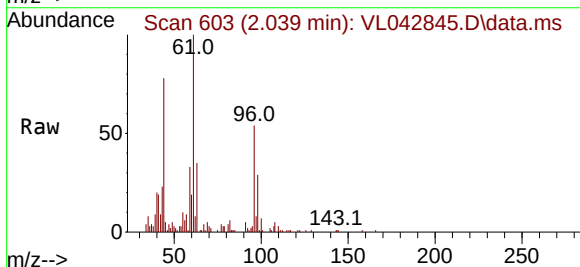
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

Tgt Ion: 59 Resp: 12182  
Ion Ratio Lower Upper  
59 100  
57 15.3 9.0 13.4#

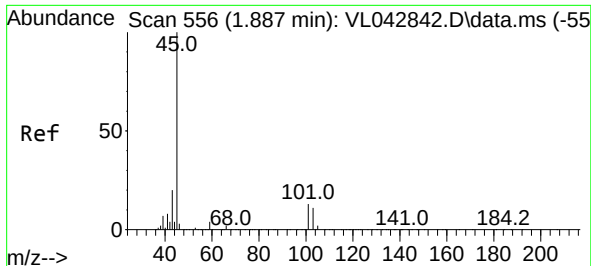


#18  
1,1-Dichloroethene  
Concen: 0.545 ppbv  
RT: 2.039 min Scan# 603  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 96 Resp: 3501  
Ion Ratio Lower Upper  
96 100  
61 188.2 158.2 237.4  
98 53.8 50.6 76.0



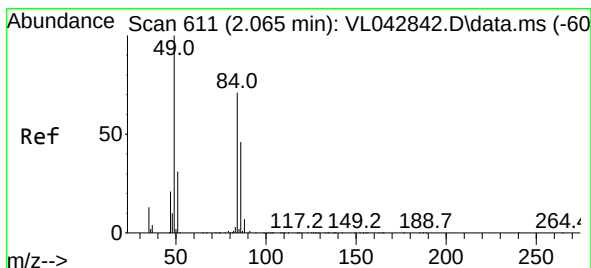
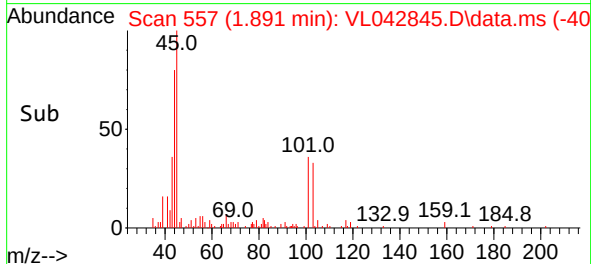
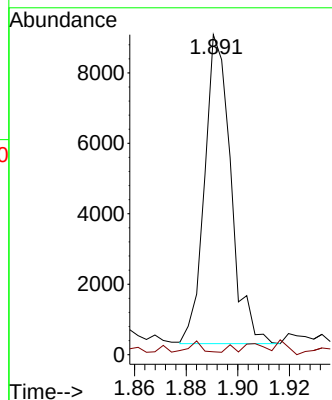
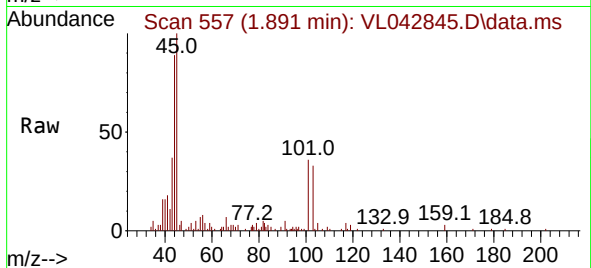




#19  
Isopropyl Alcohol  
Concen: 0.618 ppbv  
RT: 1.891 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

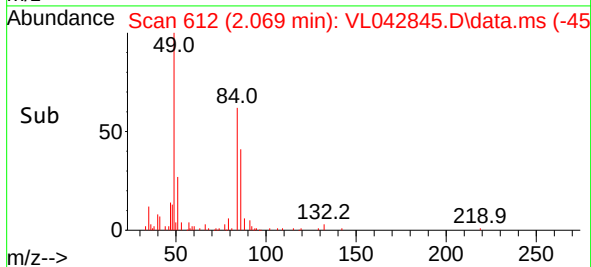
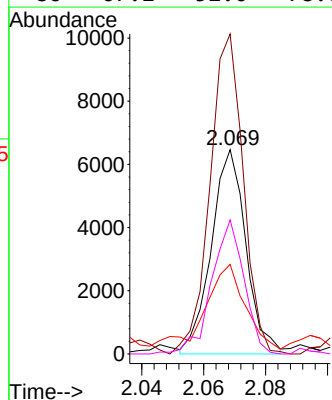
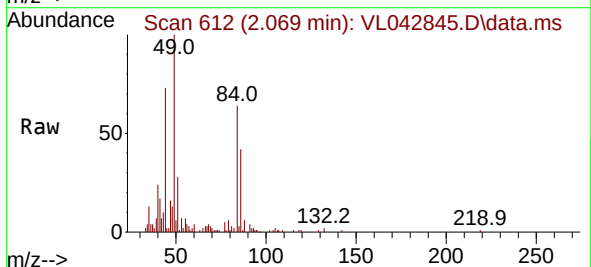
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

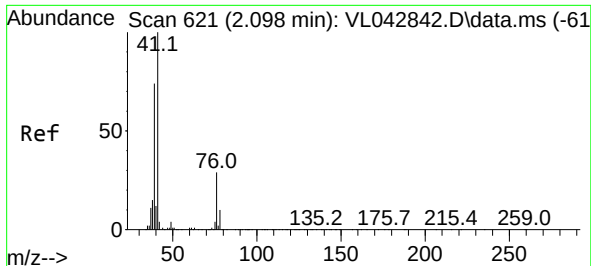
Tgt Ion: 45 Resp: 6194  
Ion Ratio Lower Upper  
45 100  
58 13.3 32.7 49.1#



#20  
Methylene Chloride  
Concen: 0.715 ppbv  
RT: 2.069 min Scan# 612  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 84 Resp: 5025  
Ion Ratio Lower Upper  
84 100  
49 159.3 112.3 168.5  
51 42.5 36.0 54.0  
86 67.2 52.0 78.0

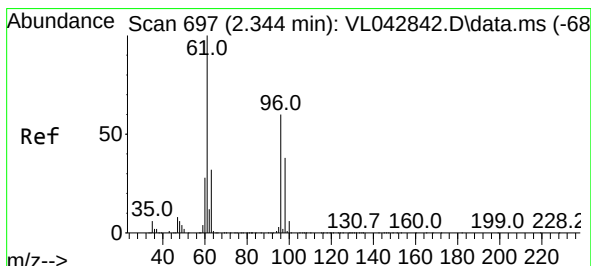
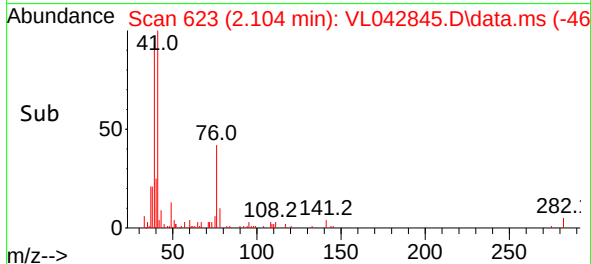
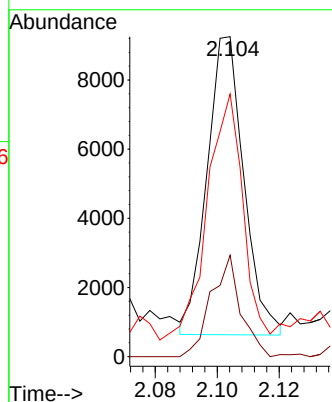
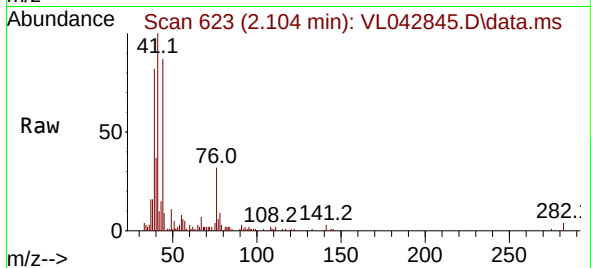




#21  
 Allyl Chloride  
 Concen: 0.600 ppbv  
 RT: 2.104 min Scan# 61  
 Delta R.T. 0.006 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

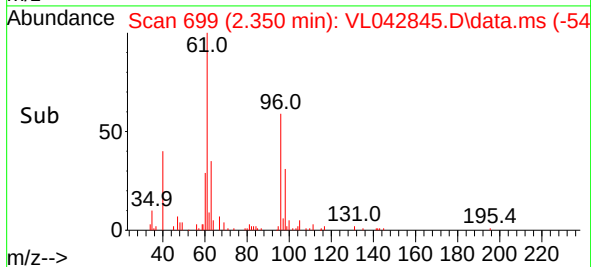
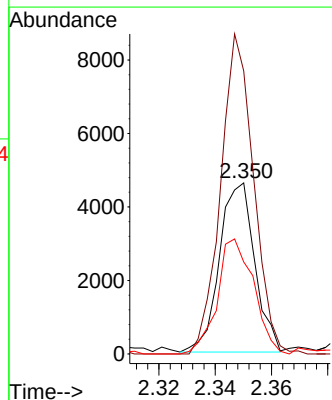
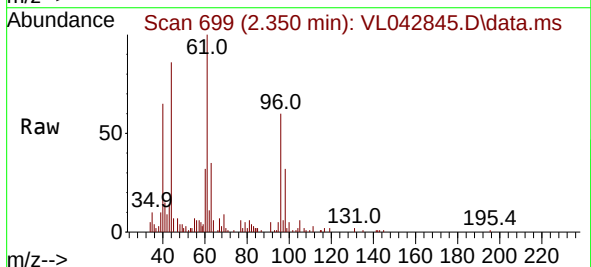
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.5

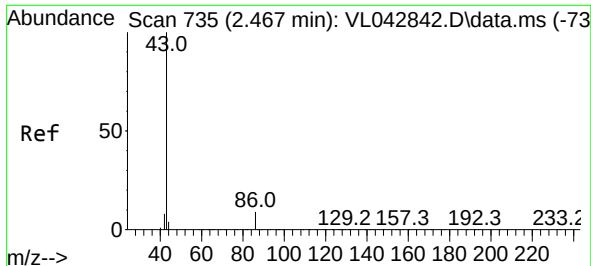
Tgt Ion: 41 Resp: 7120  
 Ion Ratio Lower Upper  
 41 100  
 76 27.8 23.9 35.9  
 39 98.9 57.8 86.6#



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.556 ppbv  
 RT: 2.350 min Scan# 699  
 Delta R.T. 0.006 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

Tgt Ion: 96 Resp: 3996  
 Ion Ratio Lower Upper  
 96 100  
 61 167.3 132.6 199.0  
 98 54.4 50.0 75.0

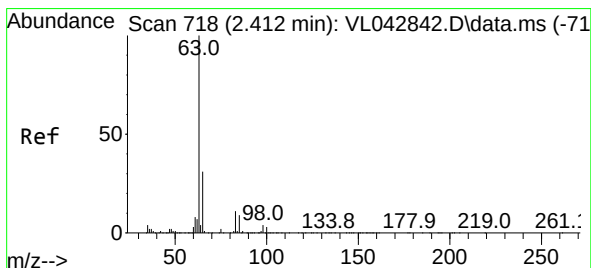
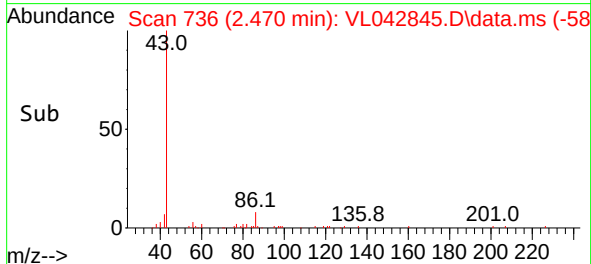
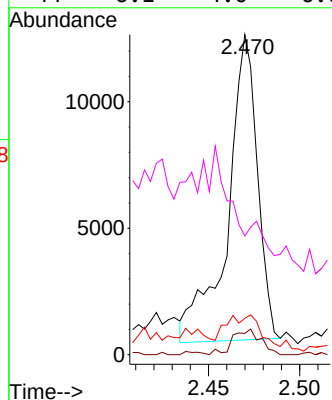
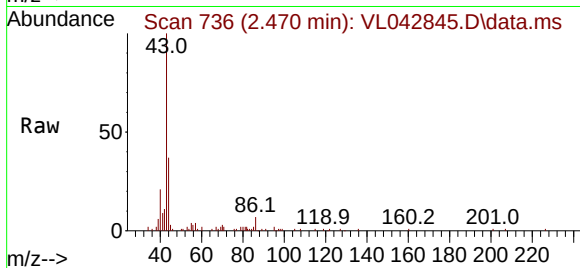




#23  
 Vinyl Acetate  
 Concen: 0.621 ppbv  
 RT: 2.470 min Scan# 71  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

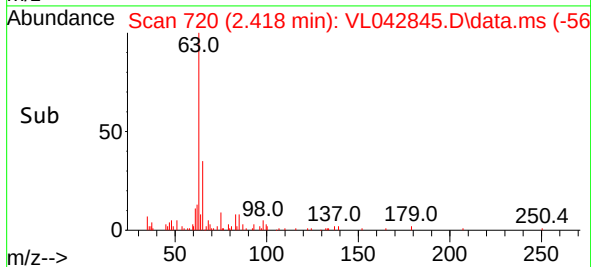
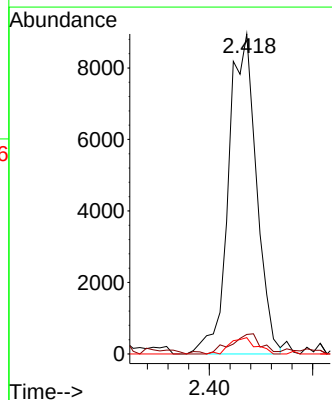
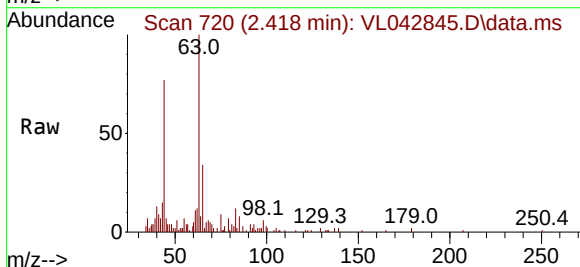
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

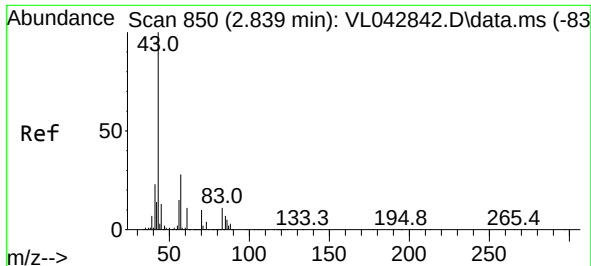
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 13709 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 7.0   | 6.6   | 9.8   |
| 42       | 9.3   | 7.0   | 10.6  |
| 44       | 6.1   | 4.0   | 6.0   |



#24  
 1,1-Dichloroethane  
 Concen: 0.562 ppbv  
 RT: 2.418 min Scan# 720  
 Delta R.T. 0.006 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 8354  |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 5.5   | 2.1   | 6.5   |
| 100      | 5.1   | 1.7   | 5.1   |

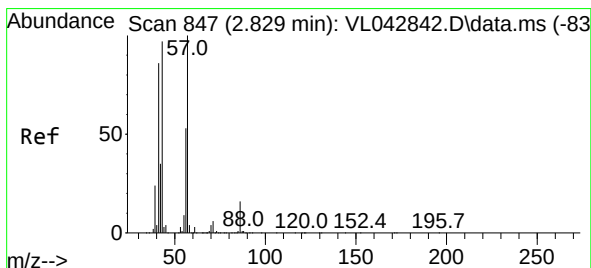
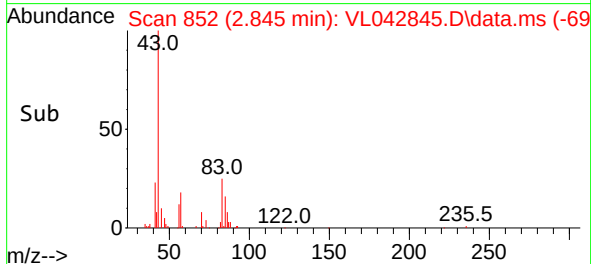
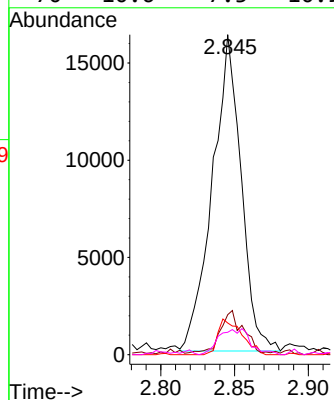
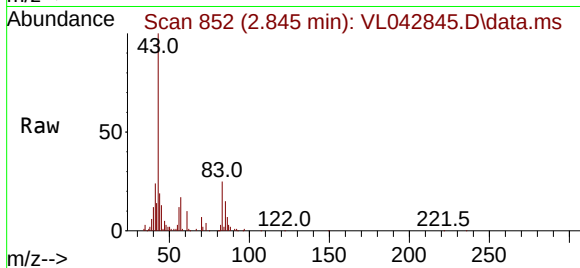




#25  
Ethyl Acetate  
Concen: 0.545 ppbv  
RT: 2.845 min Scan# 811  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

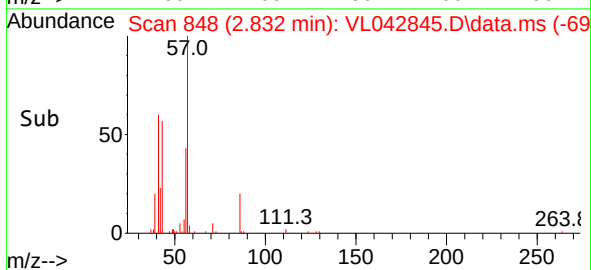
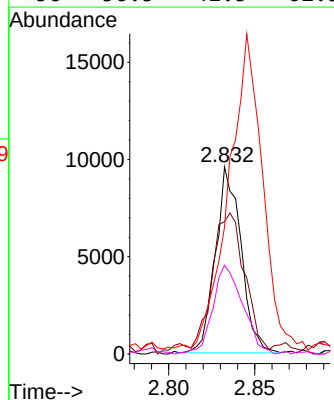
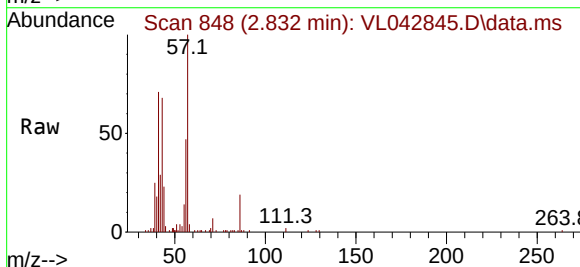
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

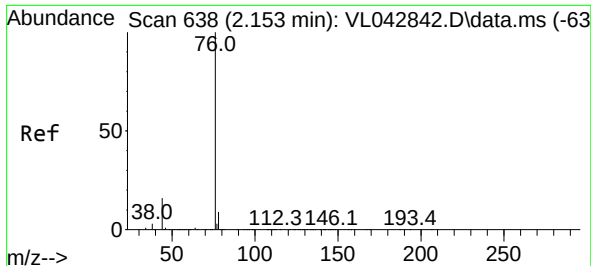
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 22148 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 13.2  | 8.1   | 12.1# |
| 61       | 9.4   | 7.4   | 11.2  |
| 70       | 10.6  | 7.3   | 10.9  |



#26  
Hexane  
Concen: 0.527 ppbv  
RT: 2.832 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 57    | Resp: | 9879  |
| Ion      | Ratio | Lower | Upper |
| 57       | 100   |       |       |
| 41       | 100.6 | 68.6  | 103.0 |
| 43       | 236.9 | 168.5 | 252.7 |
| 56       | 56.5  | 41.5  | 62.3  |

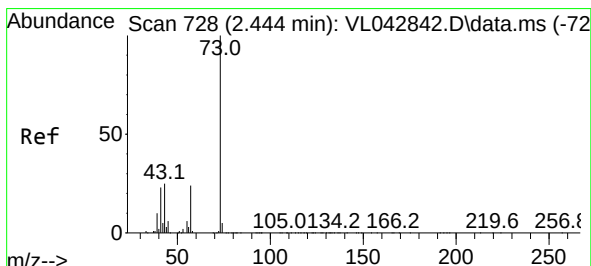
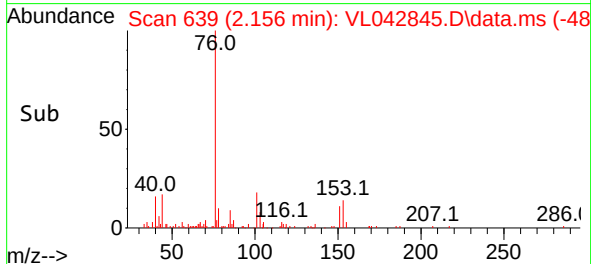
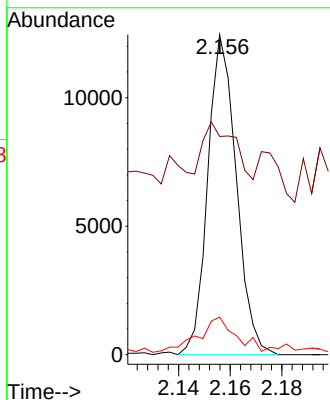
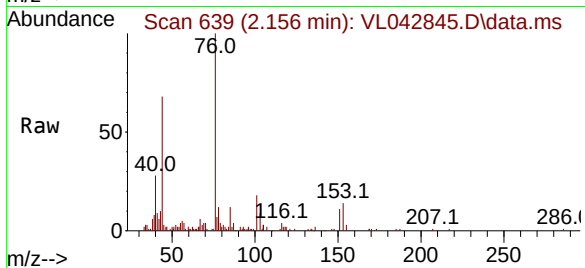




#27  
Carbon Disulfide  
Concen: 0.523 ppbv  
RT: 2.156 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

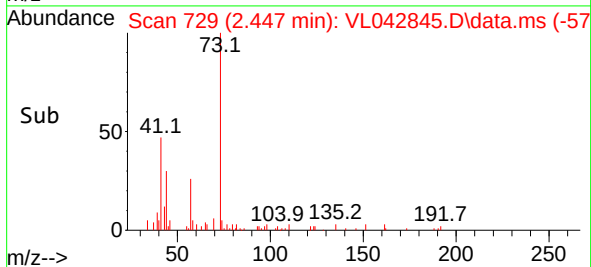
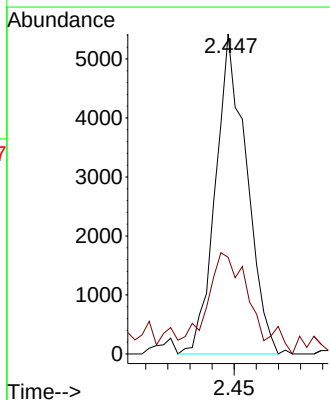
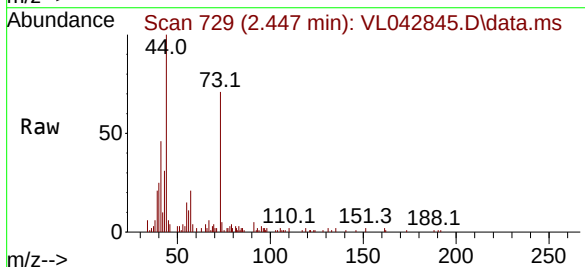
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

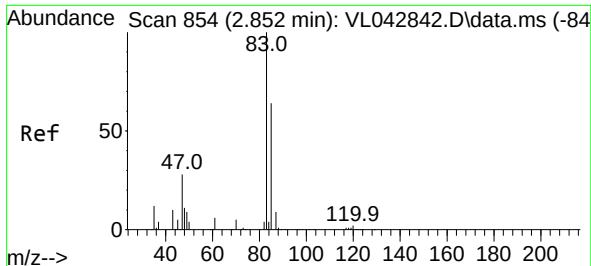
Tgt Ion: 76 Resp: 9539  
Ion Ratio Lower Upper  
76 100  
44 136.8 15.9 23.9#  
78 22.2 9.5 14.3#



#28  
Methyl tert-Butyl Ether  
Concen: 0.553 ppbv  
RT: 2.447 min Scan# 729  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 73 Resp: 5284  
Ion Ratio Lower Upper  
73 100  
57 46.5 21.6 32.4#





#29

Chloroform

Concen: 0.545 ppbv

RT: 2.858 min Scan# 81

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

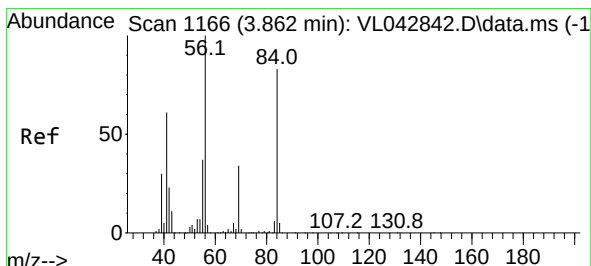
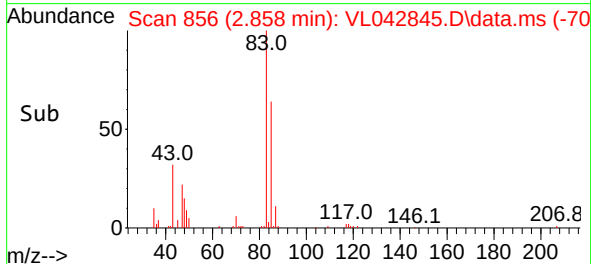
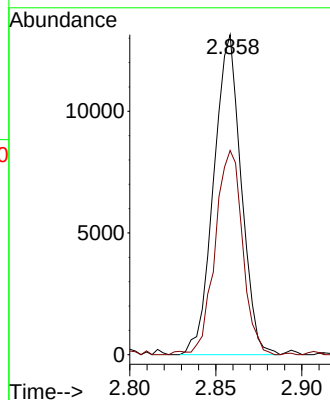
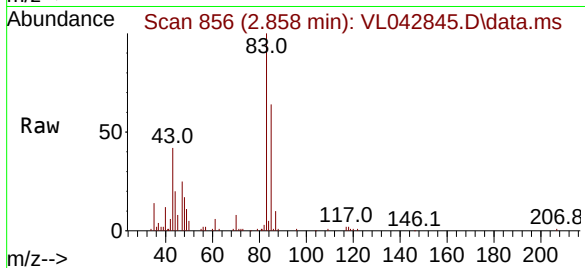
VSTDICC0.5

Tgt Ion: 83 Resp: 14586

Ion Ratio Lower Upper

83 100

85 63.8 51.1 76.7



#30

Cyclohexane

Concen: 0.550 ppbv

RT: 3.868 min Scan# 1168

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

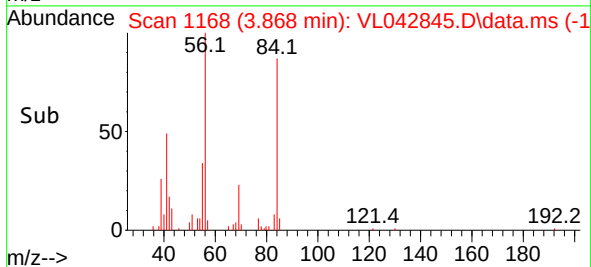
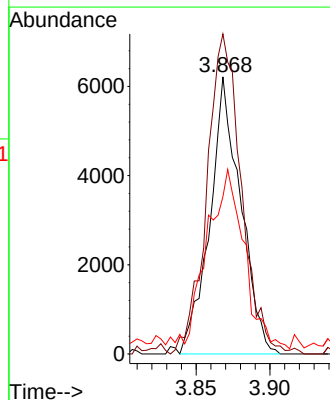
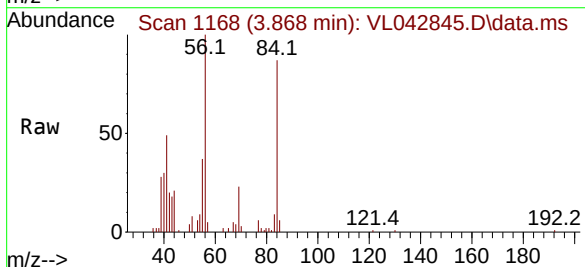
Tgt Ion: 84 Resp: 9037

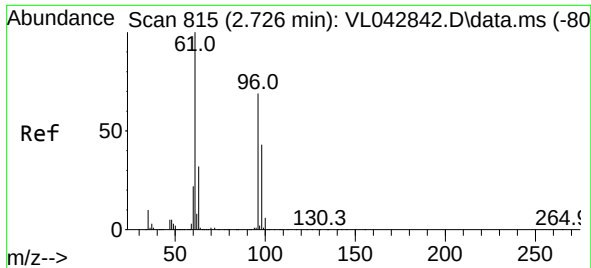
Ion Ratio Lower Upper

84 100

56 131.1 98.8 148.2

41 80.1 61.3 91.9

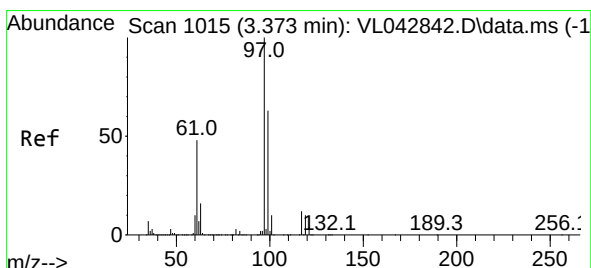
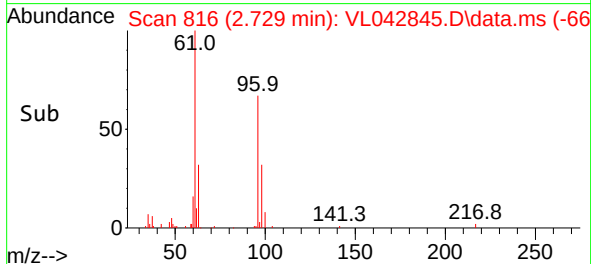
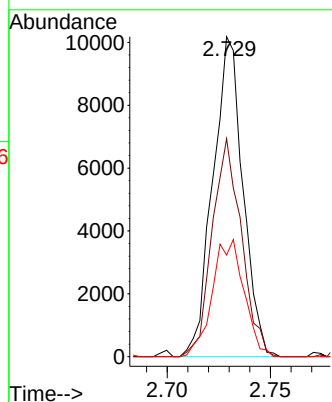
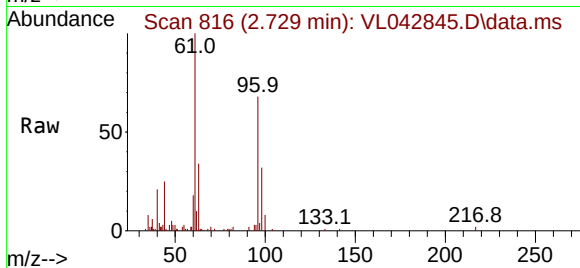




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.550 ppbv  
 RT: 2.729 min Scan# 815  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

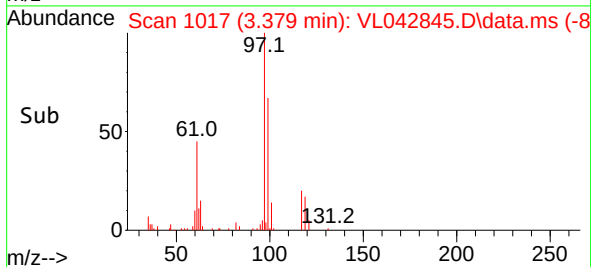
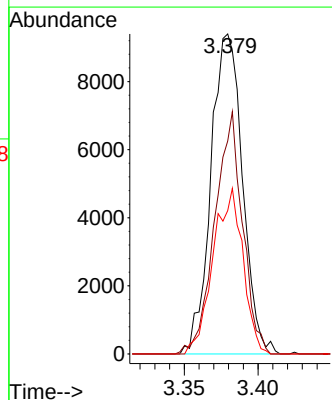
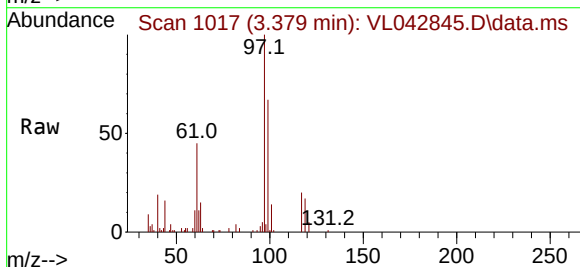
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

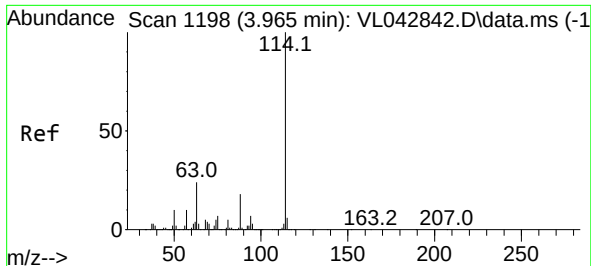
Tgt Ion: 61 Resp: 10308  
 Ion Ratio Lower Upper  
 61 100  
 96 61.7 55.0 82.6  
 98 28.7 34.3 51.5#



#32  
 1,1,1-Trichloroethane  
 Concen: 0.494 ppbv  
 RT: 3.379 min Scan# 1017  
 Delta R.T. 0.007 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

Tgt Ion: 97 Resp: 14011  
 Ion Ratio Lower Upper  
 97 100  
 99 66.4 51.0 76.6  
 61 48.9 38.0 57.0

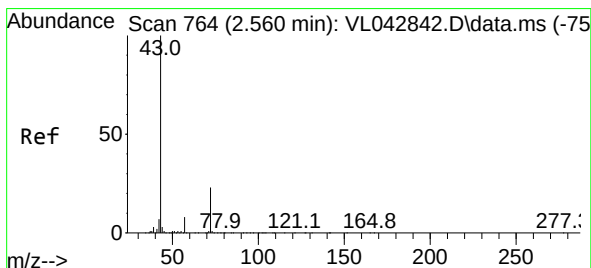
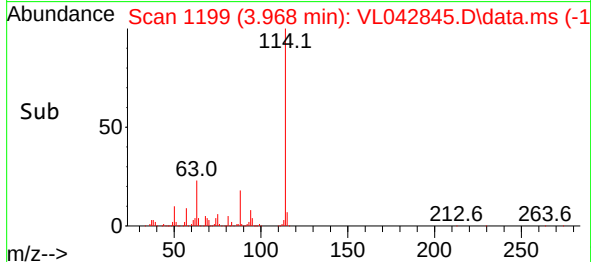
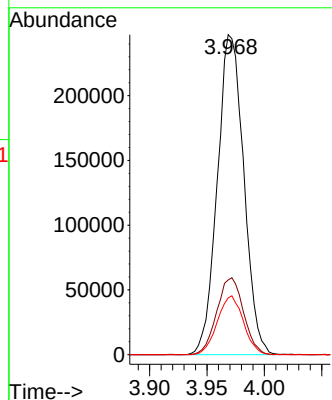
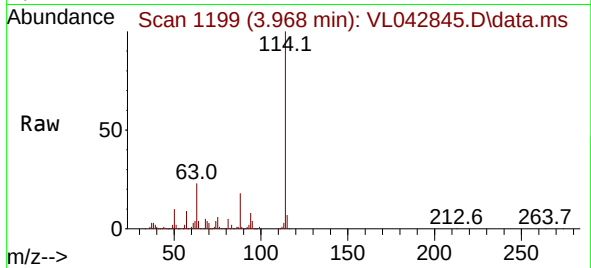




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.968 min Scan# 1199  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

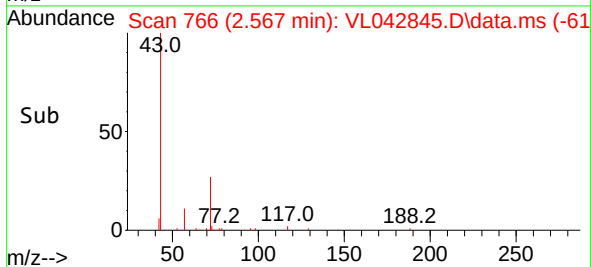
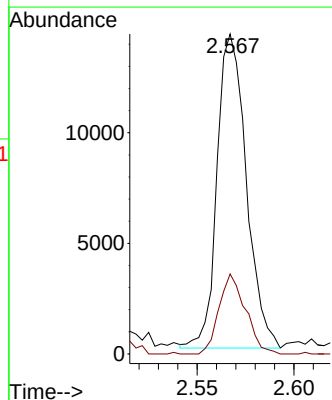
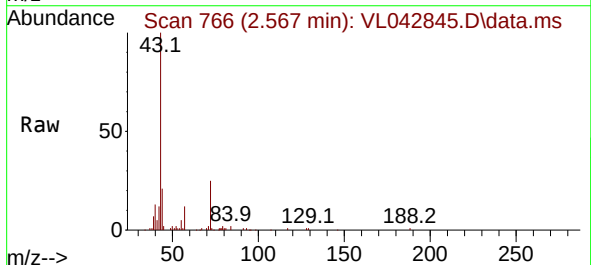
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

Tgt Ion:114 Resp: 396264  
Ion Ratio Lower Upper  
114 100  
63 24.3 19.7 29.5  
88 18.1 14.4 21.6

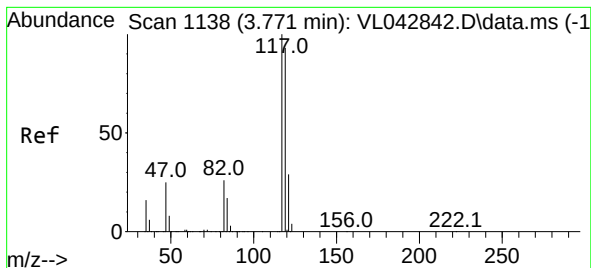


#34  
2-Butanone  
Concen: 0.558 ppbv  
RT: 2.567 min Scan# 766  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 14923  
Ion Ratio Lower Upper  
43 100  
72 23.3 18.6 28.0







#35

Carbon Tetrachloride

Concen: 0.494 ppbv

RT: 3.774 min Scan# 1138

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.5

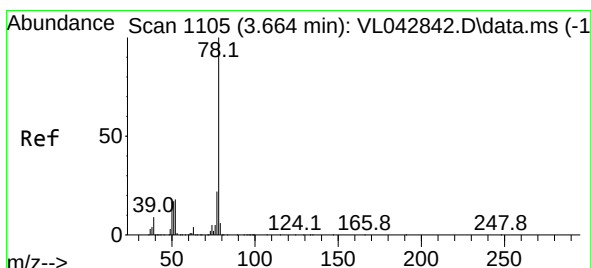
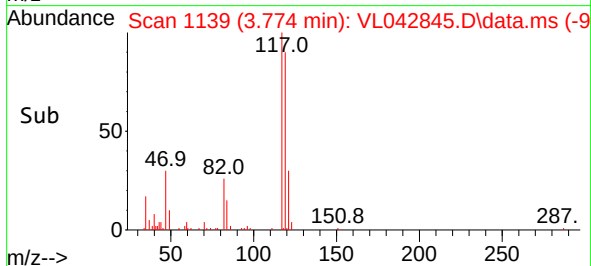
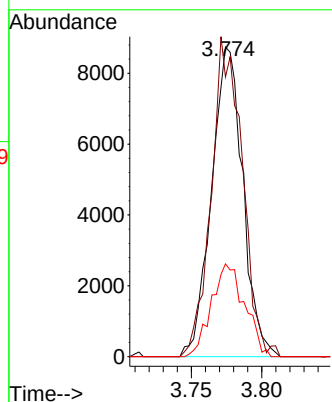
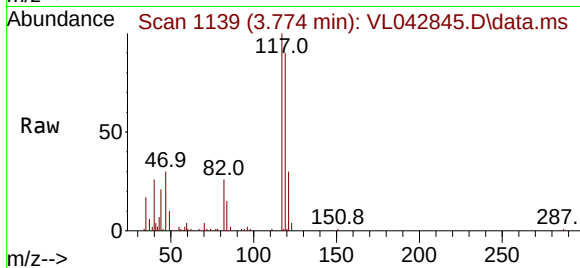
Tgt Ion:117 Resp: 13507

Ion Ratio Lower Upper

117 100

119 90.3 74.7 112.1

121 30.0 23.2 34.8



#36

Benzene

Concen: 0.529 ppbv

RT: 3.671 min Scan# 1107

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

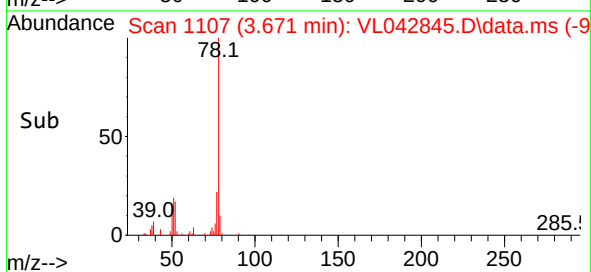
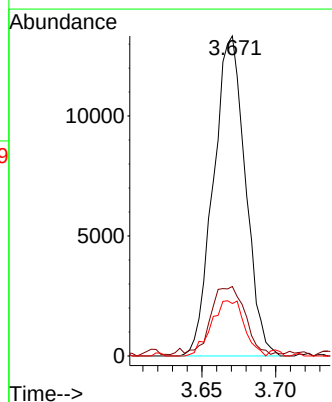
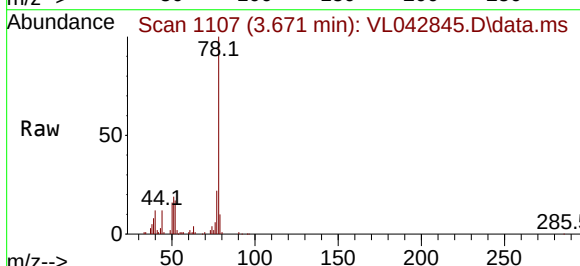
Tgt Ion: 78 Resp: 20073

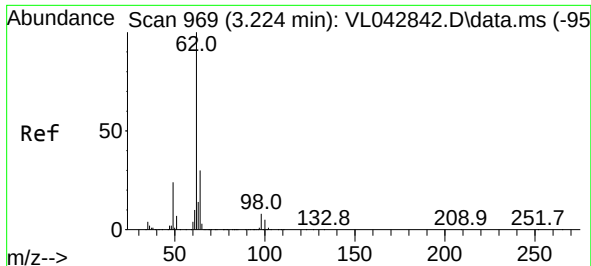
Ion Ratio Lower Upper

78 100

77 21.0 17.7 26.5

50 16.4 13.9 20.9

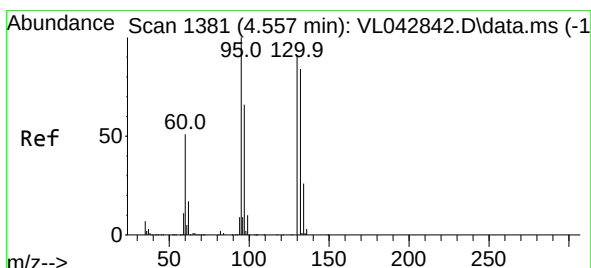
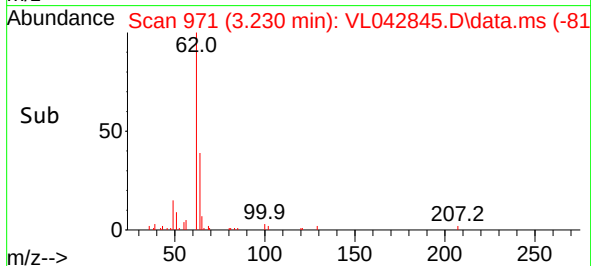
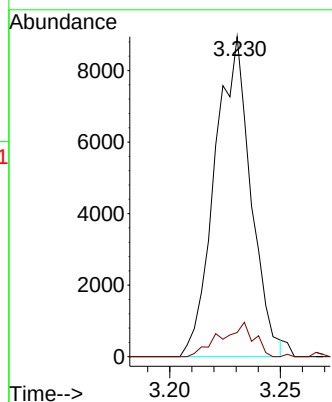
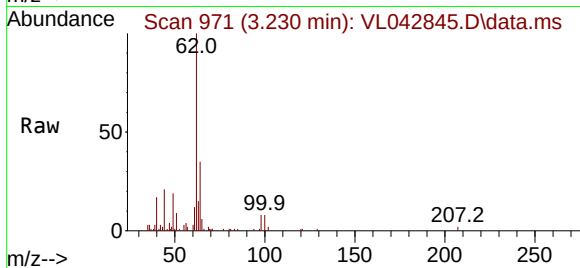




#37  
1,2-Dichloroethane  
Concen: 0.512 ppbv  
RT: 3.230 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

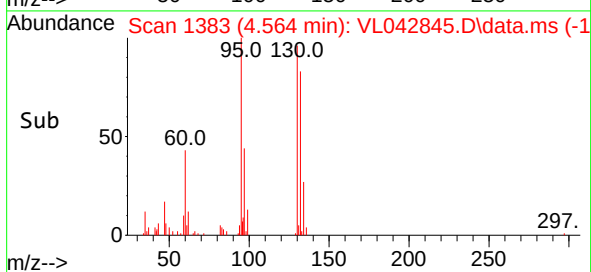
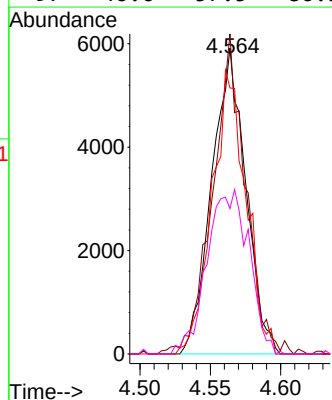
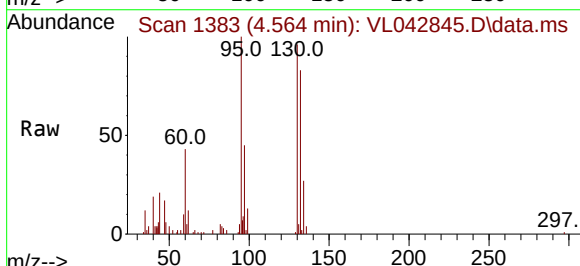
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

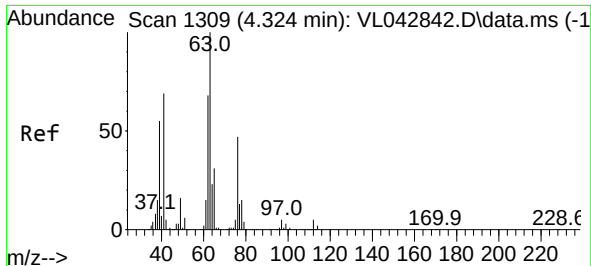
Tgt Ion: 62 Resp: 10141  
Ion Ratio Lower Upper  
62 100  
98 10.0 5.9 8.9#



#38  
Trichloroethene  
Concen: 0.572 ppbv  
RT: 4.564 min Scan# 1383  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion:130 Resp: 9918  
Ion Ratio Lower Upper  
130 100  
95 103.5 87.6 131.4  
132 86.9 73.8 110.8  
97 46.6 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 0.541 ppbv

RT: 4.334 min Scan# 1312

Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.5

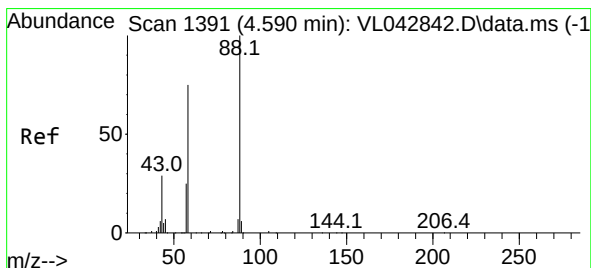
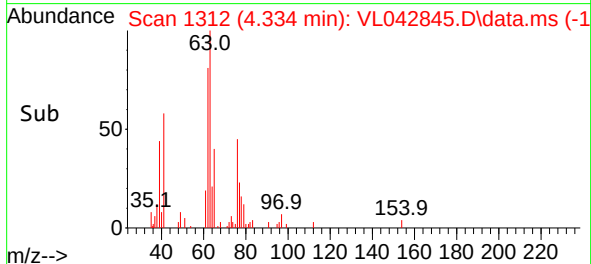
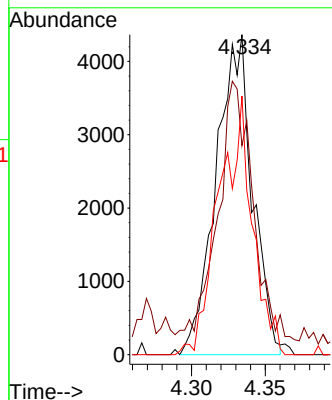
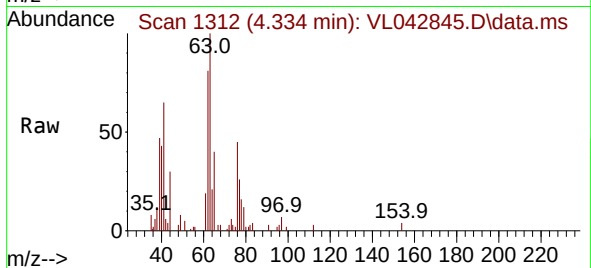
Tgt Ion: 63 Resp: 7491

Ion Ratio Lower Upper

63 100

41 57.8 55.0 82.4

62 79.7 54.4 81.6



#40

1,4-Dioxane

Concen: 0.318 ppbv

RT: 4.613 min Scan# 1398

Delta R.T. 0.023 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Tgt Ion: 88 Resp: 2065

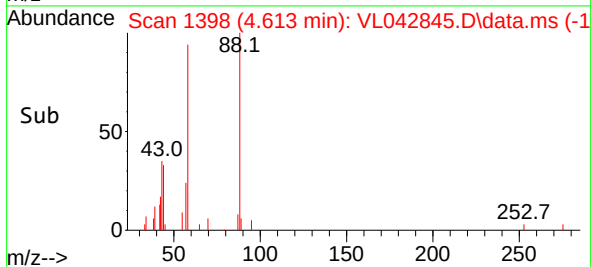
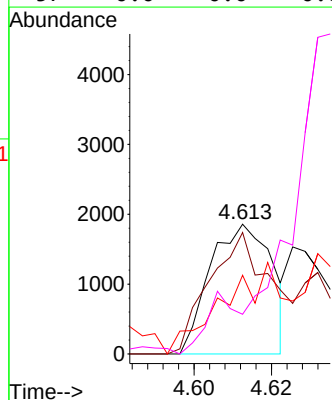
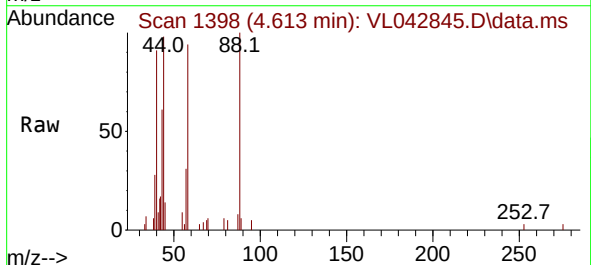
Ion Ratio Lower Upper

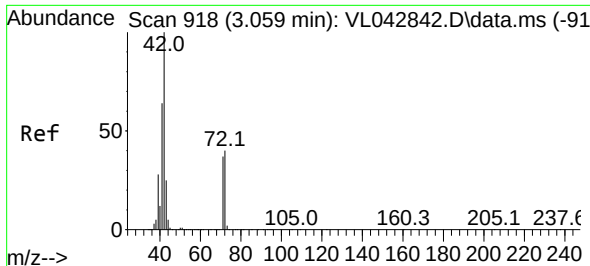
88 100

58 214.7 53.8 80.6#

43 0.0 22.8 34.2#

57 0.0 0.0 0.0

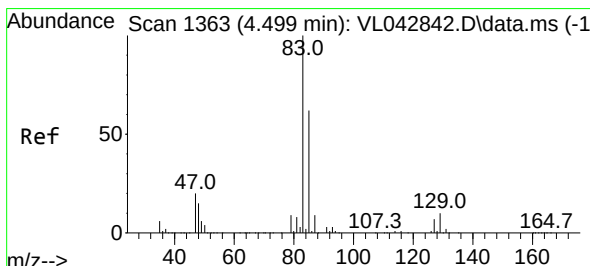
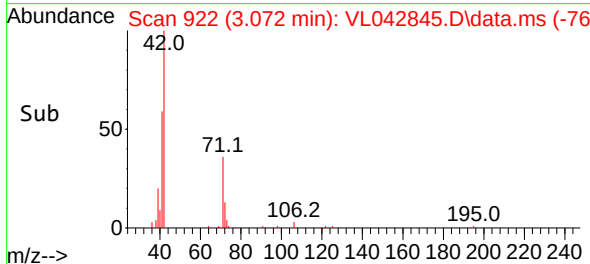
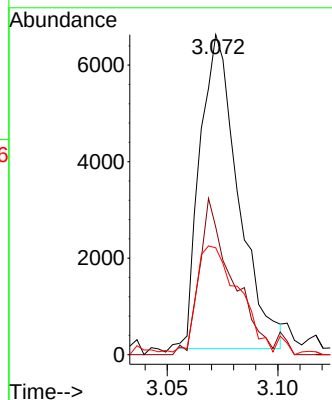
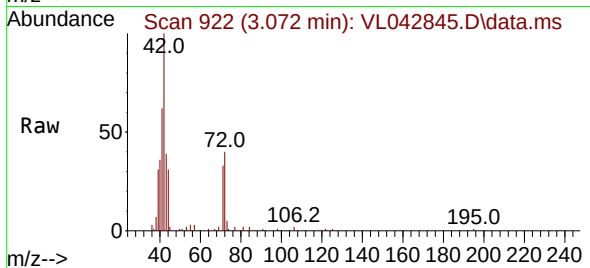




#41  
Tetrahydrofuran  
Concen: 0.525 ppbv  
RT: 3.072 min Scan# 918  
Delta R.T. 0.013 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

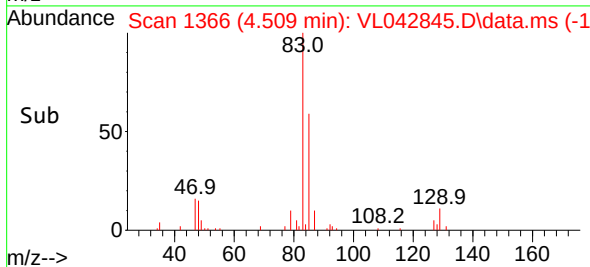
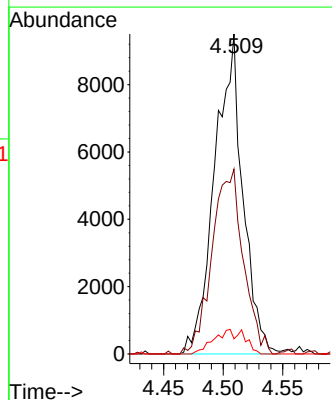
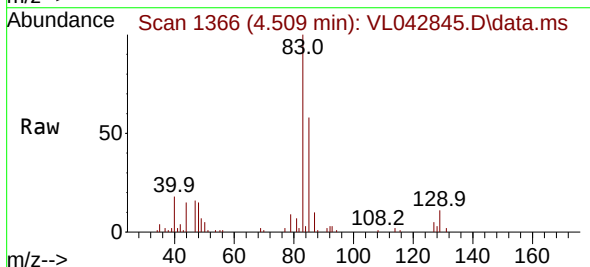
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

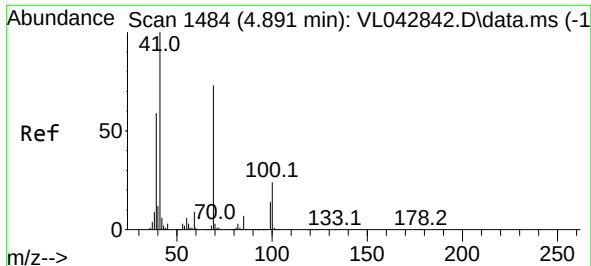
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 42    | Resp: | 7827 |
| Ion Ratio | Lower | Upper |      |
| 42        | 100   |       |      |
| 72        | 44.5  | 32.6  | 48.8 |
| 71        | 42.0  | 30.0  | 45.0 |



#42  
Bromodichloromethane  
Concen: 0.527 ppbv  
RT: 4.509 min Scan# 1366  
Delta R.T. 0.010 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 83    | Resp: | 15580 |
| Ion Ratio | Lower | Upper |       |
| 83        | 100   |       |       |
| 85        | 57.7  | 49.8  | 74.8  |
| 127       | 4.7   | 5.8   | 8.6   |

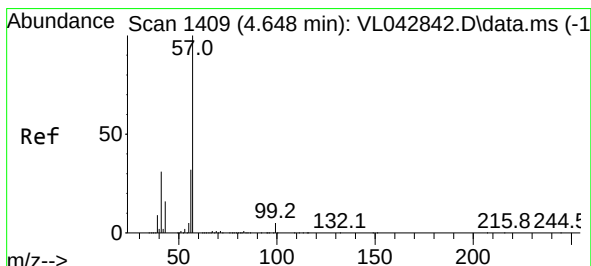
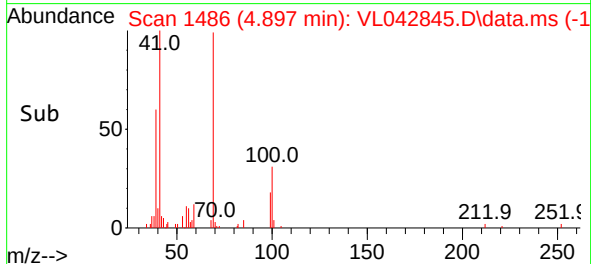
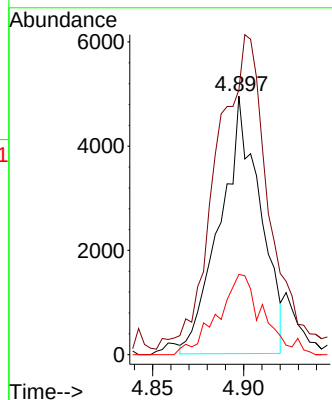
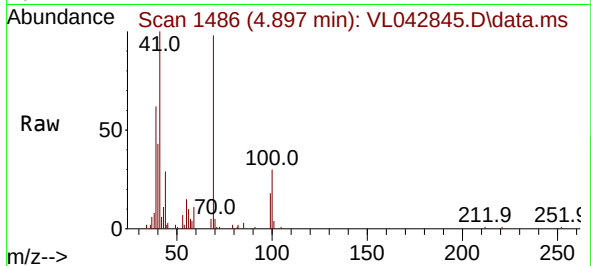




#43  
Methyl Methacrylate  
Concen: 0.484 ppbv  
RT: 4.897 min Scan# 1410  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

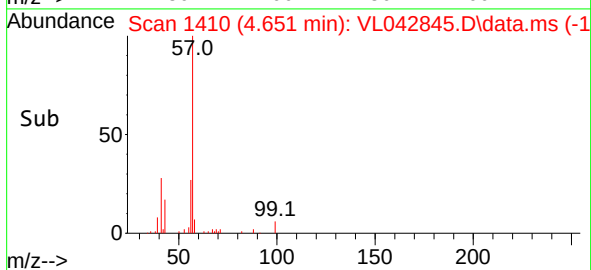
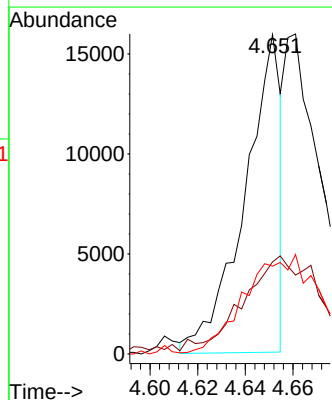
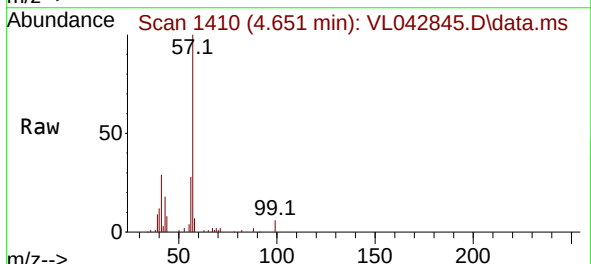
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

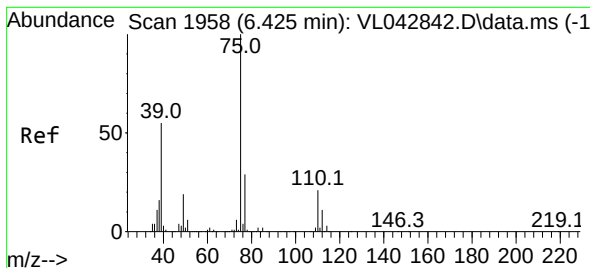
Tgt Ion: 69 Resp: 7529  
Ion Ratio Lower Upper  
69 100  
41 158.8 114.6 172.0  
100 35.6 30.2 45.4



#44  
2,2,4-Trimethylpentane  
Concen: 0.263 ppbv  
RT: 4.651 min Scan# 1410  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 57 Resp: 16770  
Ion Ratio Lower Upper  
57 100  
41 65.8 24.8 37.2#  
56 0.0 25.5 38.3#





#45

t-1,3-Dichloropropene

Concen: 0.312 ppbv

RT: 6.435 min Scan# 1958

Delta R.T. 0.010 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_L

ClientSampleId :

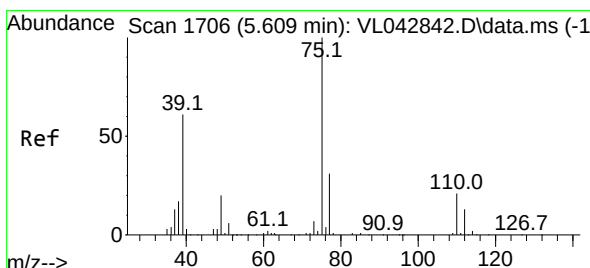
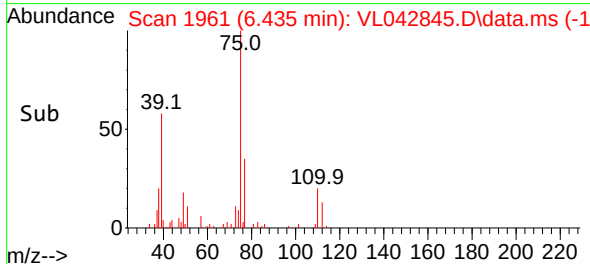
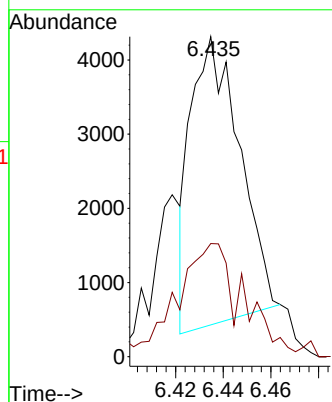
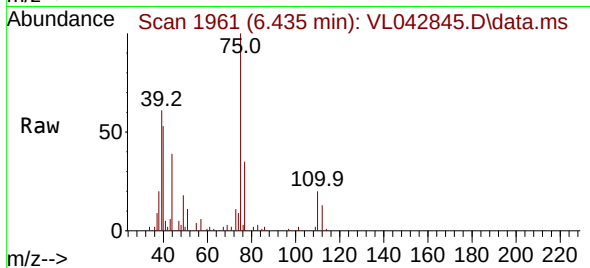
VSTDICC0.5

Tgt Ion: 75 Resp: 5507

Ion Ratio Lower Upper

75 100

77 35.4 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 0.221 ppbv

RT: 5.613 min Scan# 1707

Delta R.T. 0.003 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

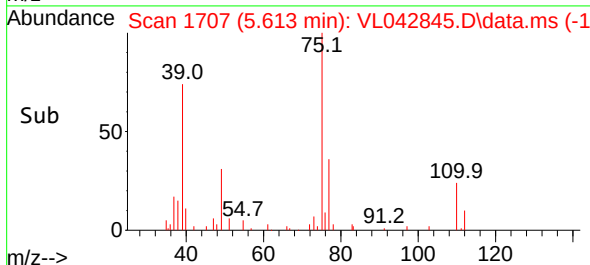
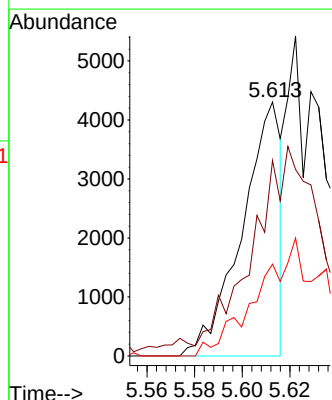
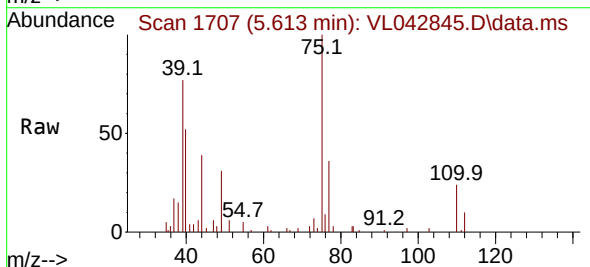
Tgt Ion: 75 Resp: 4895

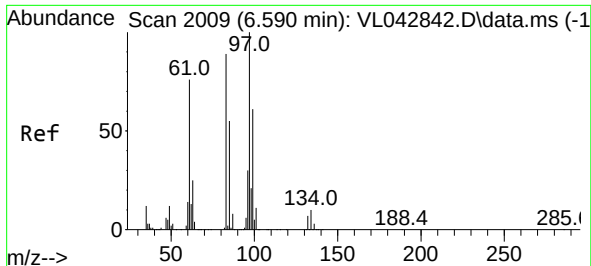
Ion Ratio Lower Upper

75 100

39 70.0 48.9 73.3

77 36.2 24.9 37.3

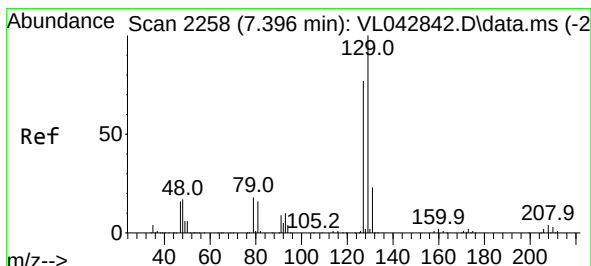
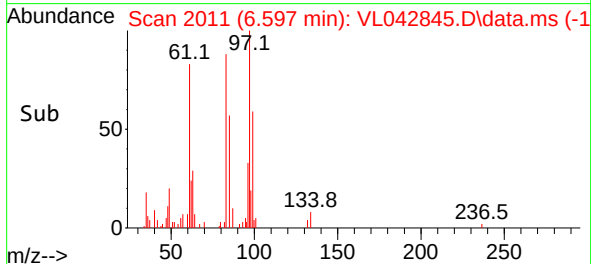
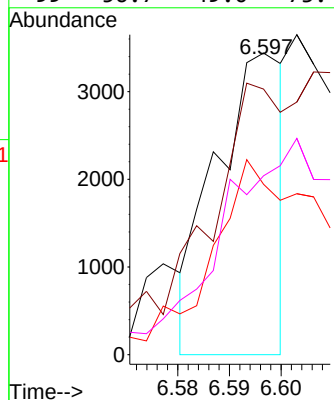
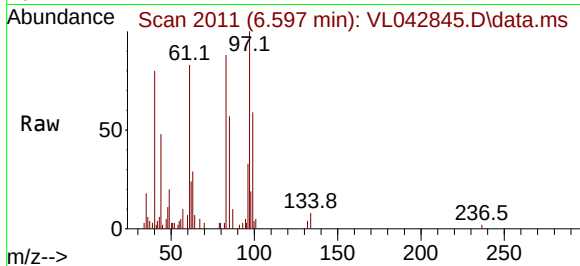




#47  
1,1,2-Trichloroethane  
Concen: 0.214 ppbv  
RT: 6.597 min Scan# 2009  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

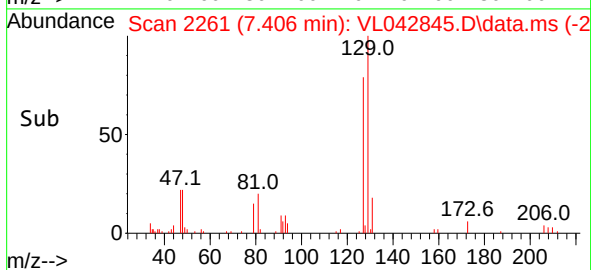
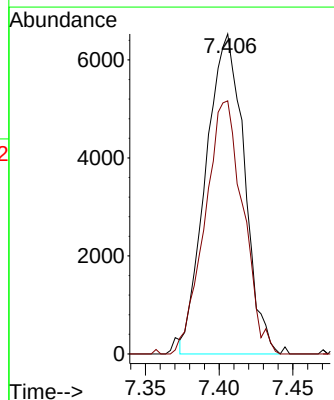
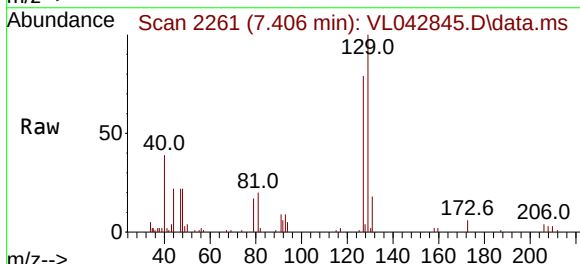
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

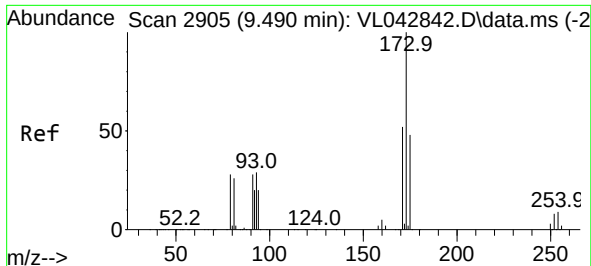
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 3140  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 83       | 74.9  | 71.0  | 106.4 |
| 85       | 59.0  | 43.6  | 65.4  |
| 99       | 56.7  | 49.0  | 73.4  |



#48  
Dibromochloromethane  
Concen: 0.497 ppbv  
RT: 7.406 min Scan# 2261  
Delta R.T. 0.010 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 129   | Resp: | 11805 |
| Ion      | Ratio | Lower | Upper |
| 129      | 100   |       |       |
| 127      | 79.1  | 39.4  | 118.2 |

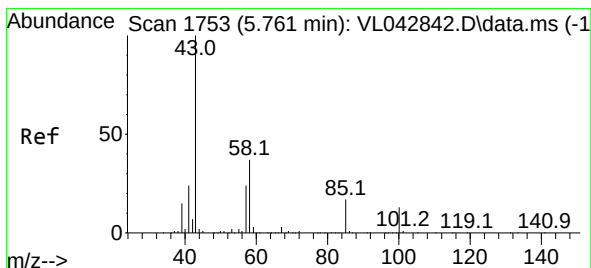
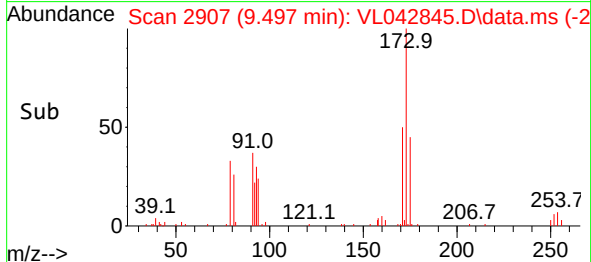
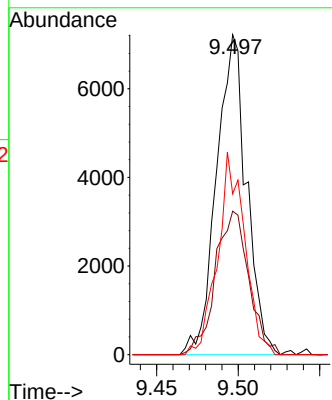
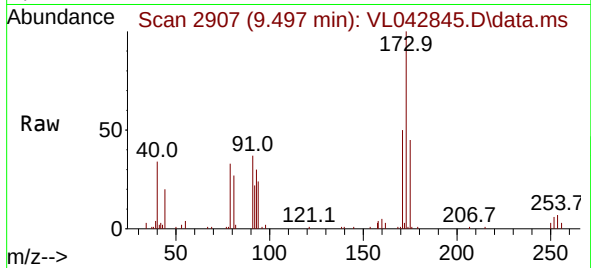




#49  
Bromoform  
Concen: 0.471 ppbv  
RT: 9.497 min Scan# 2905  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

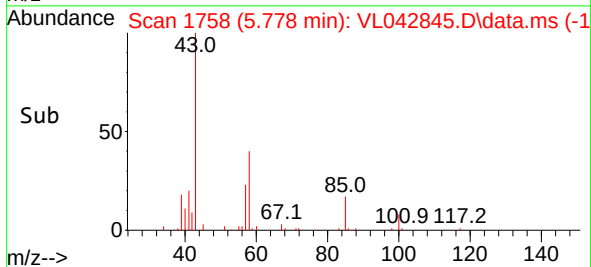
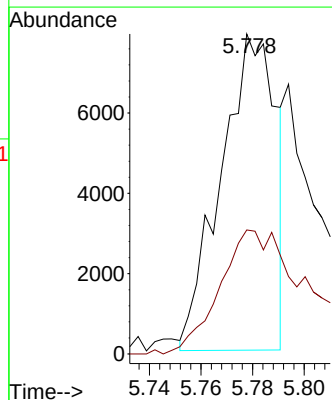
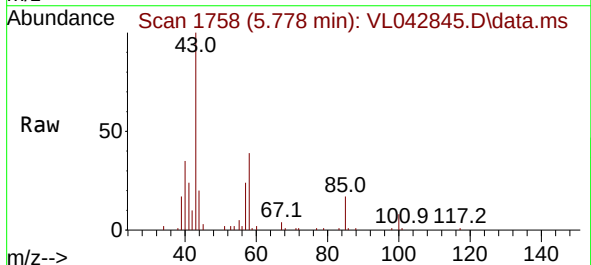
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:173 Resp: 9232  
Ion Ratio Lower Upper  
173 100  
175 49.9 39.2 58.8  
171 57.0 41.3 61.9

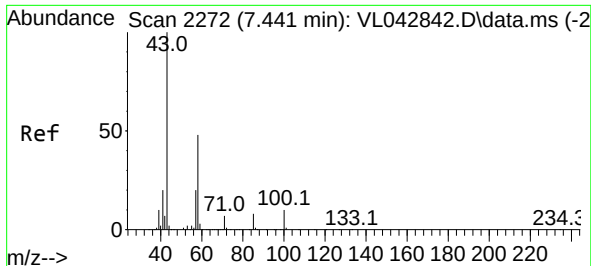


#50  
4-Methyl-2-Pentanone  
Concen: 0.321 ppbv  
RT: 5.778 min Scan# 1758  
Delta R.T. 0.016 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 43 Resp: 11657  
Ion Ratio Lower Upper  
43 100  
58 66.0 29.8 44.8#



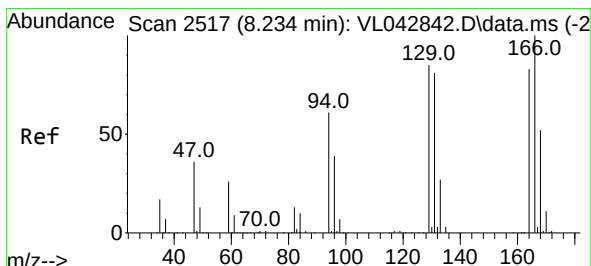
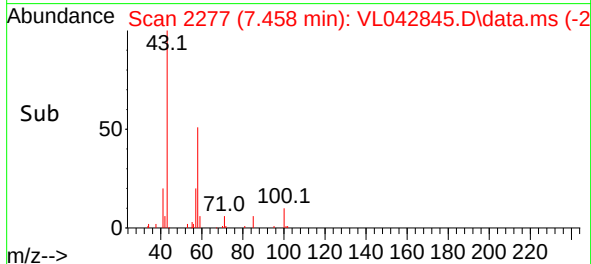
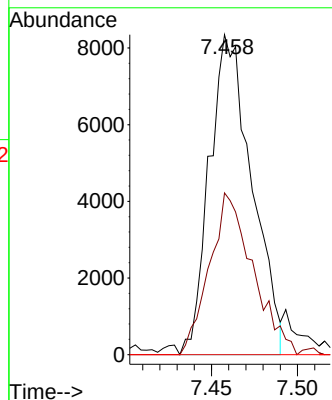
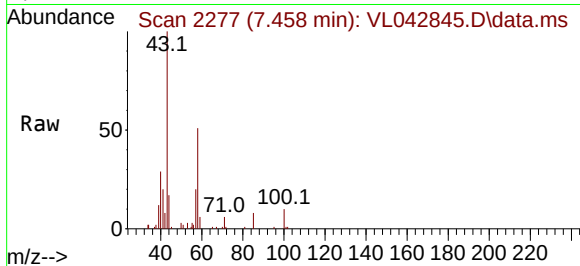




#51  
2-Hexanone  
Concen: 0.503 ppbv  
RT: 7.458 min Scan# 21  
Delta R.T. 0.016 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

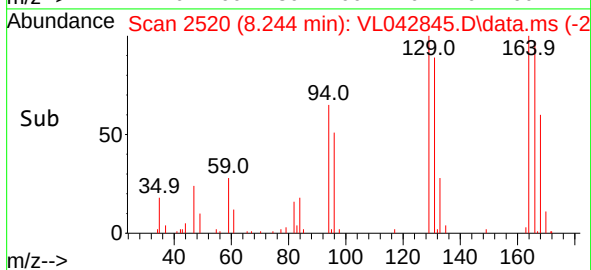
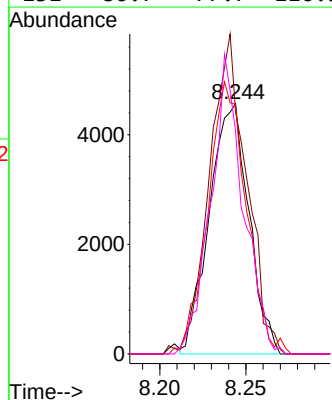
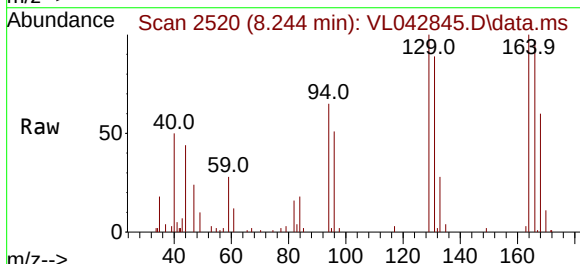
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.5

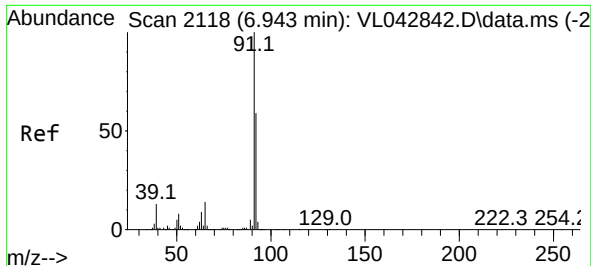
Tgt Ion: 43 Resp: 14329  
Ion Ratio Lower Upper  
43 100  
58 52.3 41.0 61.6  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 0.531 ppbv  
RT: 8.244 min Scan# 2520  
Delta R.T. 0.010 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 164 Resp: 7304  
Ion Ratio Lower Upper  
164 100  
166 95.1 96.5 144.7#  
129 98.0 81.8 122.6  
131 86.7 77.7 116.5

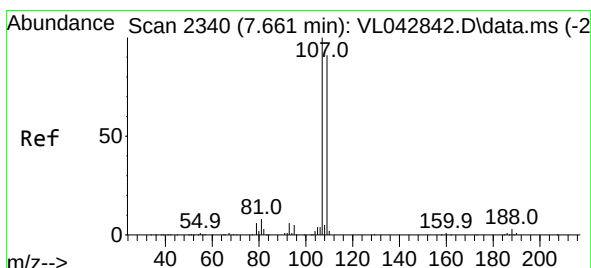
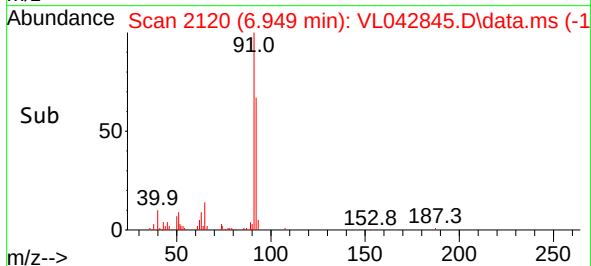
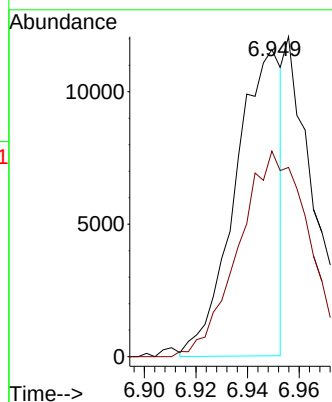
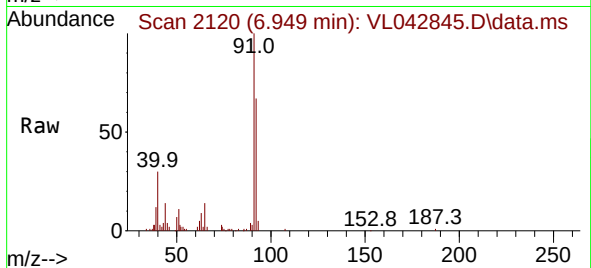




#53  
Toluene  
Concen: 0.318 ppbv  
RT: 6.949 min Scan# 2118  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

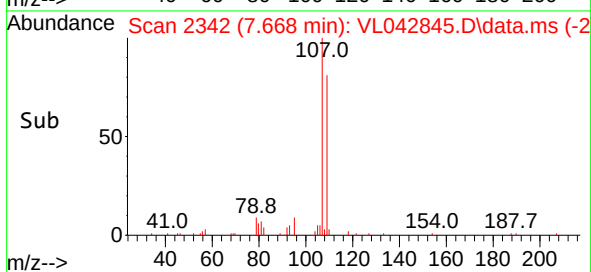
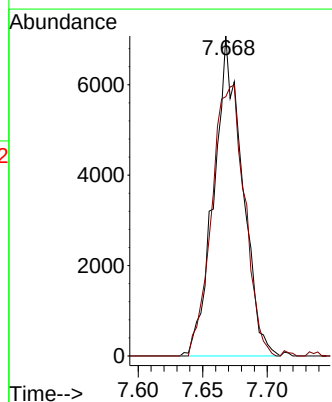
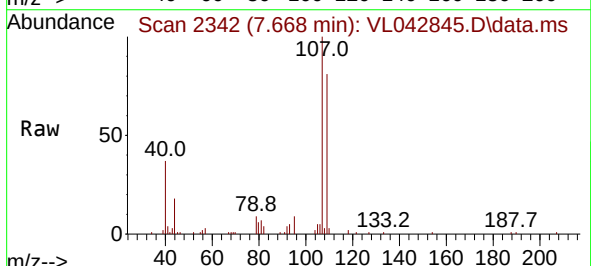
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.5

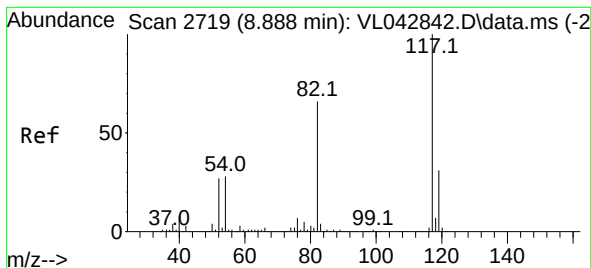
Tgt Ion: 91 Resp: 14358  
Ion Ratio Lower Upper  
91 100  
92 104.5 47.8 71.6#



#54  
1,2-Dibromoethane  
Concen: 0.507 ppbv  
RT: 7.668 min Scan# 2342  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 107 Resp: 10873  
Ion Ratio Lower Upper  
107 100  
109 81.0 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.895 min Scan# 21

Delta R.T. 0.007 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.5

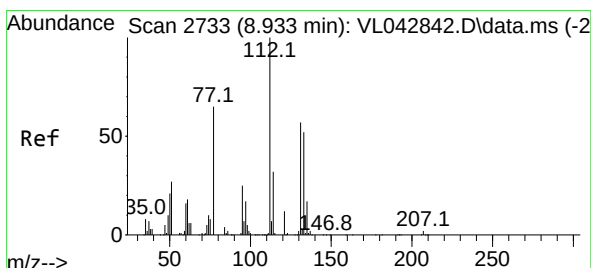
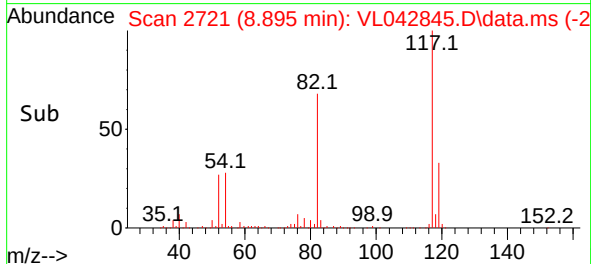
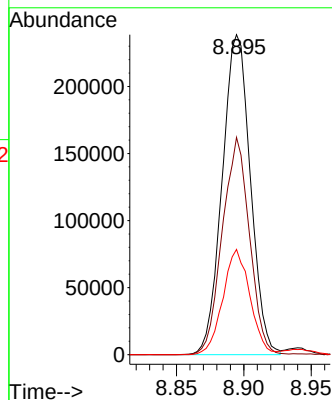
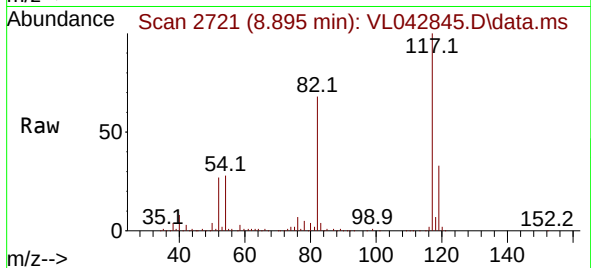
Tgt Ion:117 Resp: 348005

Ion Ratio Lower Upper

117 100

82 65.4 54.6 81.8

119 33.4 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 0.517 ppbv

RT: 8.940 min Scan# 2735

Delta R.T. 0.006 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

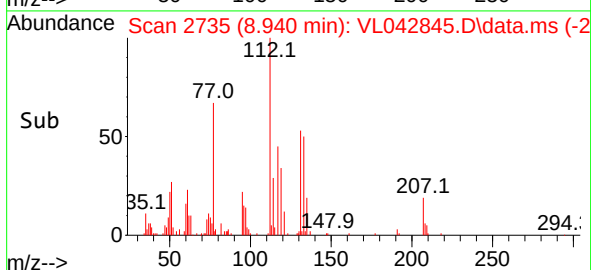
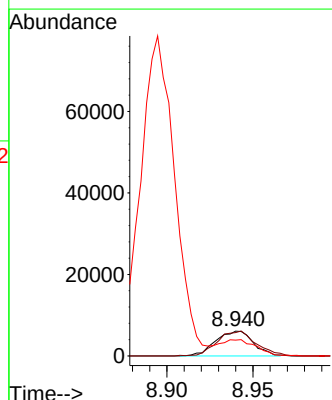
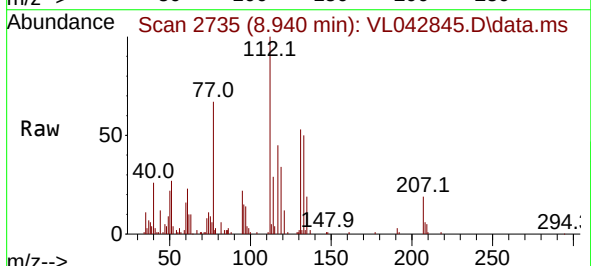
Tgt Ion:131 Resp: 9300

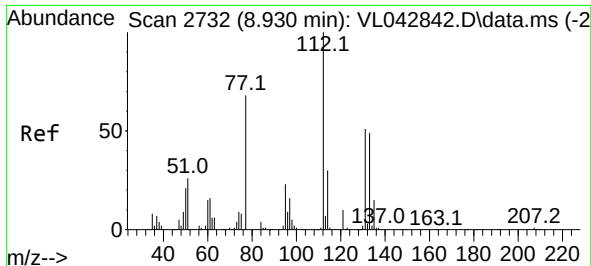
Ion Ratio Lower Upper

131 100

133 102.5 77.4 116.0

119 1250.4 51.2 76.8#

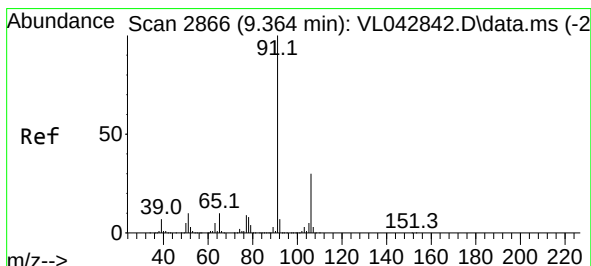
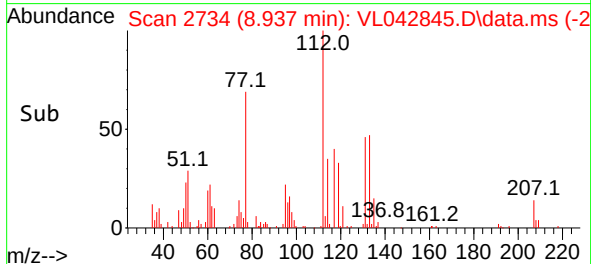
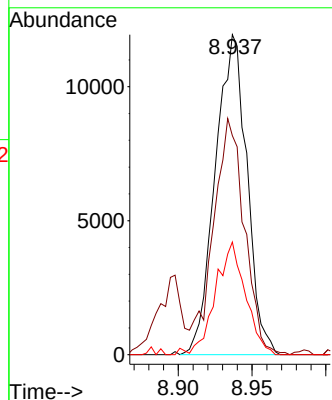
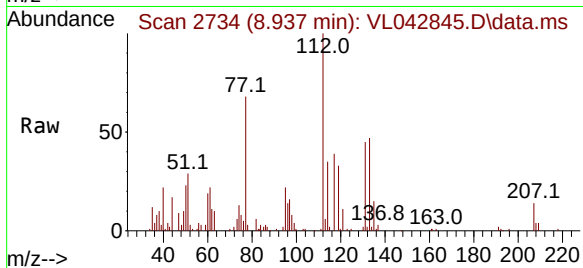




#57  
Chlorobenzene  
Concen: 0.539 ppbv  
RT: 8.937 min Scan# 21  
Delta R.T. 0.007 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

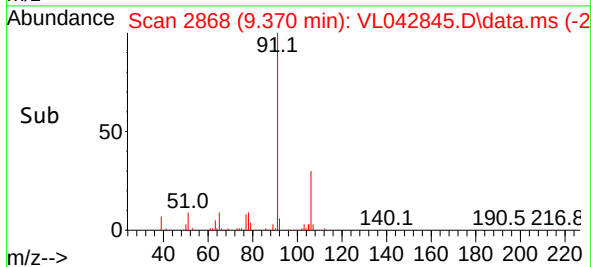
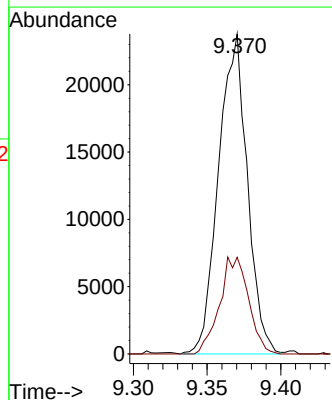
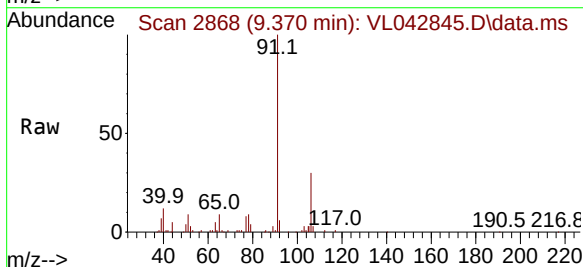
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

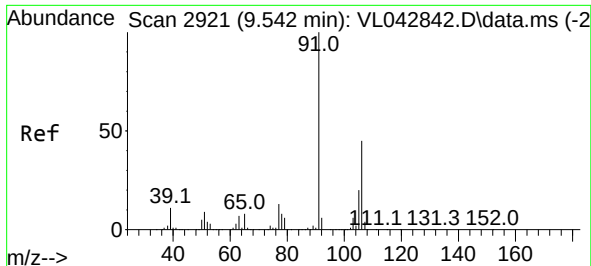
Tgt Ion:112 Resp: 17845  
Ion Ratio Lower Upper  
112 100  
77 67.8 55.5 83.3  
114 35.2 27.2 33.2#



#58  
Ethyl Benzene  
Concen: 0.525 ppbv  
RT: 9.370 min Scan# 2868  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 32261  
Ion Ratio Lower Upper  
91 100  
106 30.2 23.9 35.9





#59

m/p-Xylene

Concen: 0.561 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042845.D

Acq: 13 Aug 2025 10:17

Instrument :

MSVOA\_1

ClientSampleId :

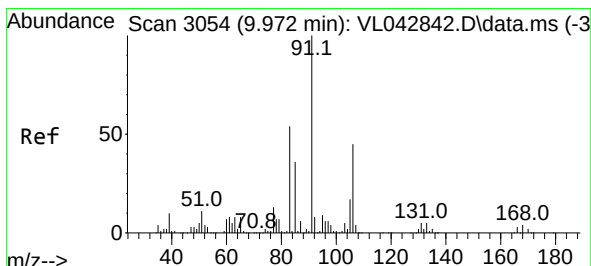
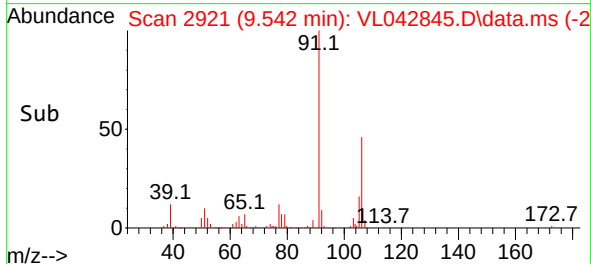
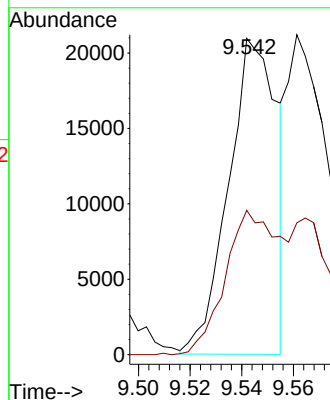
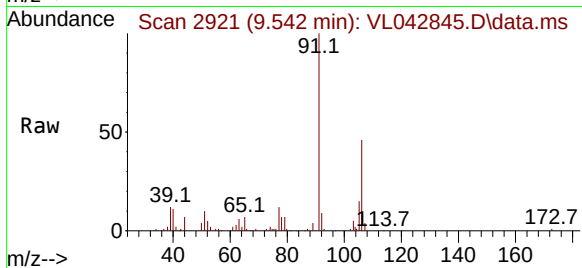
VSTDIC0.5

Tgt Ion: 91 Resp: 27059

Ion Ratio Lower Upper

91 100

106 87.4 0.0 0.0#



#60

o-Xylene

Concen: 0.551 ppbv

RT: 9.979 min Scan# 3056

Delta R.T. 0.007 min

Lab File: VL042845.D

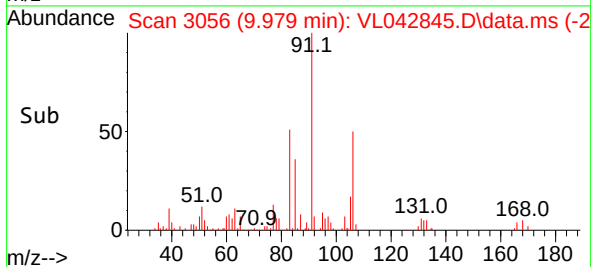
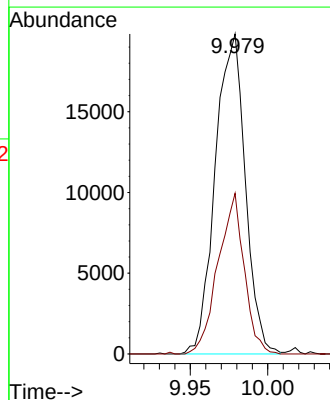
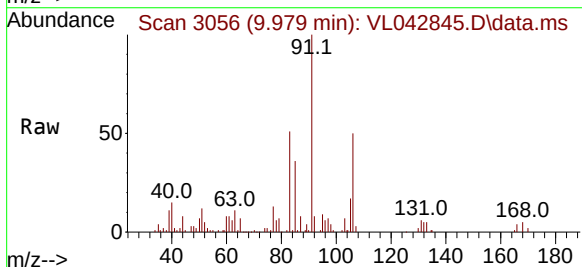
Acq: 13 Aug 2025 10:17

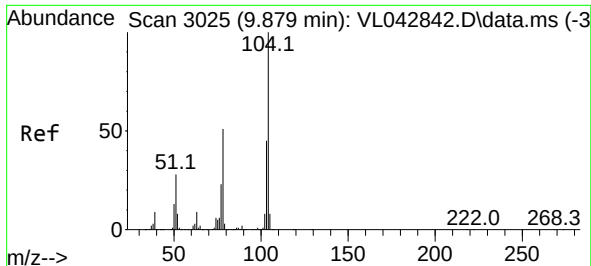
Tgt Ion: 91 Resp: 26662

Ion Ratio Lower Upper

91 100

106 43.8 21.8 65.4

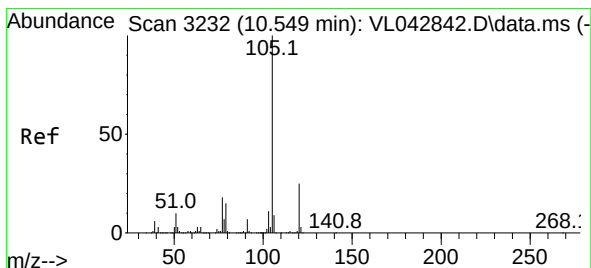
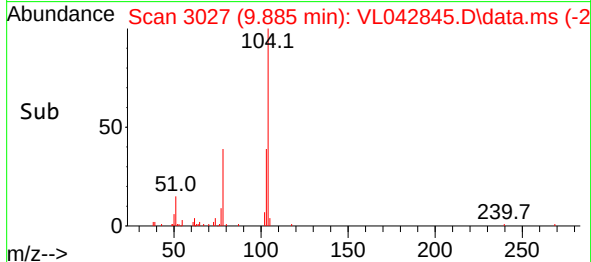
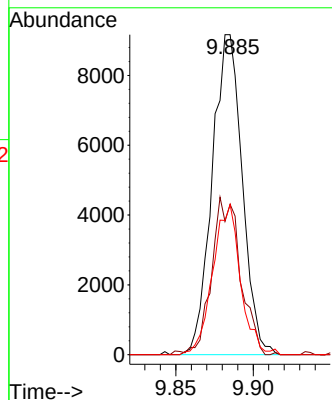
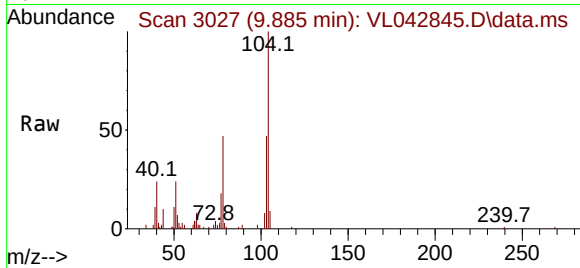




#61  
Styrene  
Concen: 0.546 ppbv  
RT: 9.885 min Scan# 3025  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

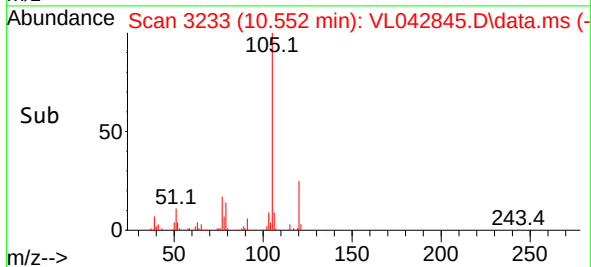
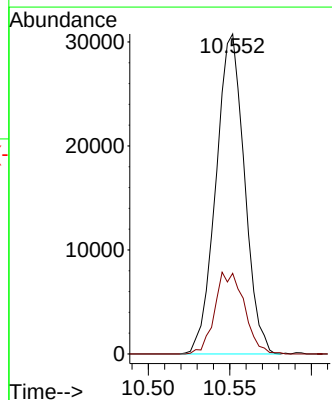
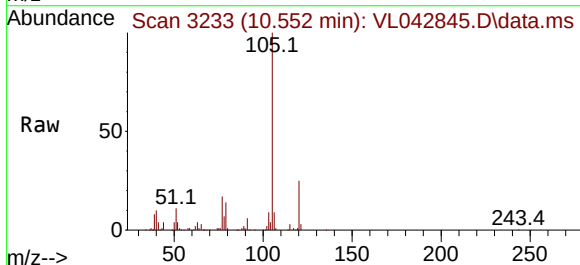
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

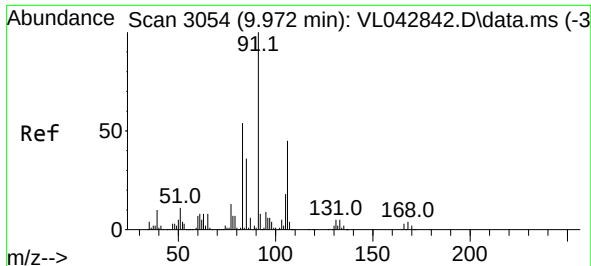
Tgt Ion:104 Resp: 12379  
Ion Ratio Lower Upper  
104 100  
78 47.4 40.6 61.0  
103 43.4 37.7 56.5



#62  
Isopropylbenzene  
Concen: 0.529 ppbv  
RT: 10.552 min Scan# 3233  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion:105 Resp: 37401  
Ion Ratio Lower Upper  
105 100  
120 26.5 20.6 30.8

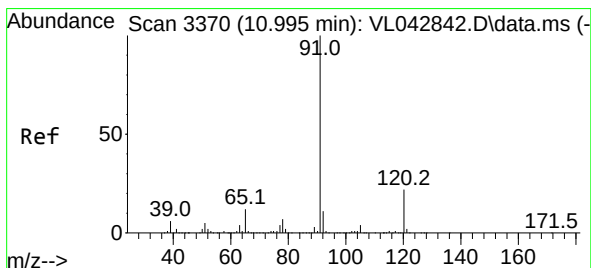
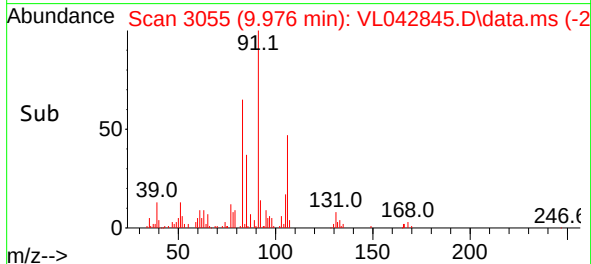
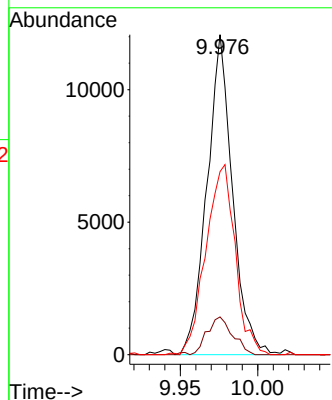
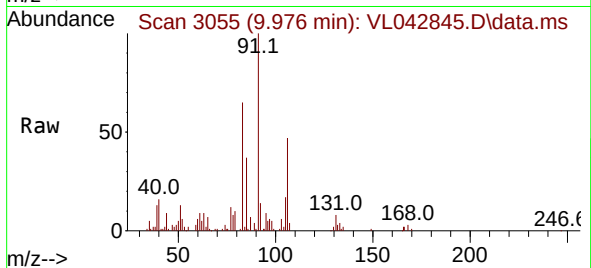




#63  
1,1,2,2-Tetrachloroethane  
Concen: 0.523 ppbv  
RT: 9.976 min Scan# 3055  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

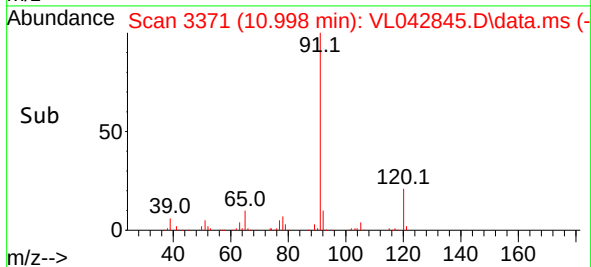
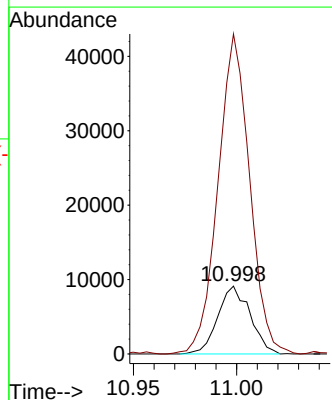
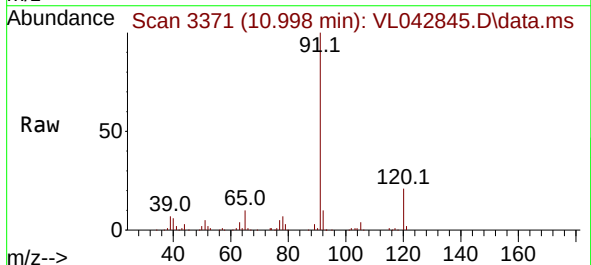
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

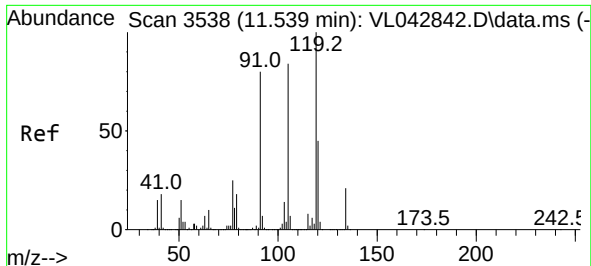
Tgt Ion: 83 Resp: 13828  
Ion Ratio Lower Upper  
83 100  
131 12.0 4.8 14.3  
85 68.3 32.3 96.8



#64  
n-propylbenzene  
Concen: 0.550 ppbv  
RT: 10.998 min Scan# 3371  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 120 Resp: 9922  
Ion Ratio Lower Upper  
120 100  
91 463.3 375.8 563.6

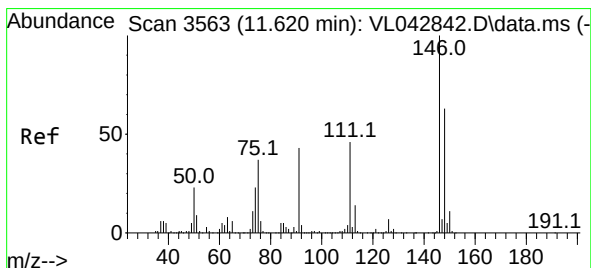
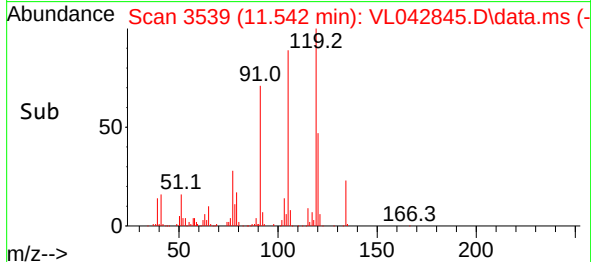
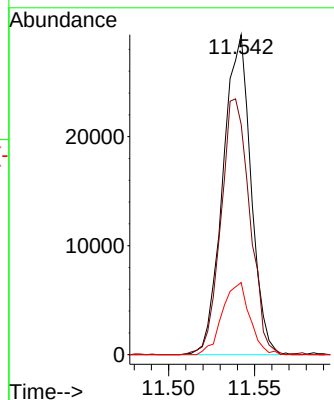
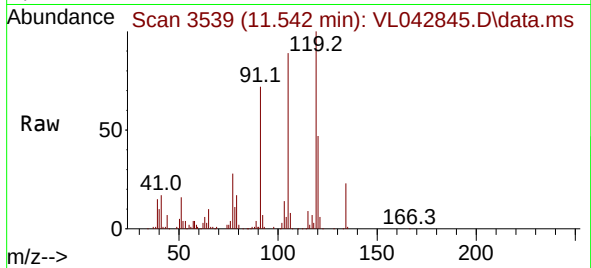




#65  
tert-Butylbenzene  
Concen: 0.532 ppbv  
RT: 11.542 min Scan# 3538  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

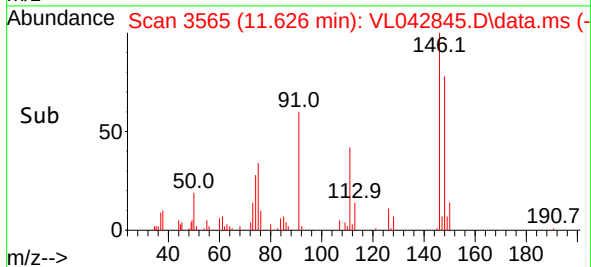
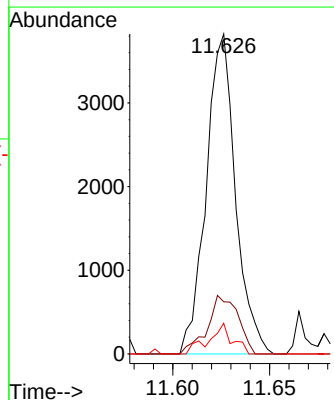
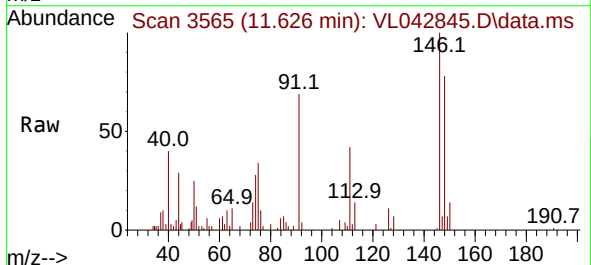
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

Tgt Ion:119 Resp: 33183  
Ion Ratio Lower Upper  
119 100  
91 82.8 63.9 95.9  
134 22.1 17.0 25.4

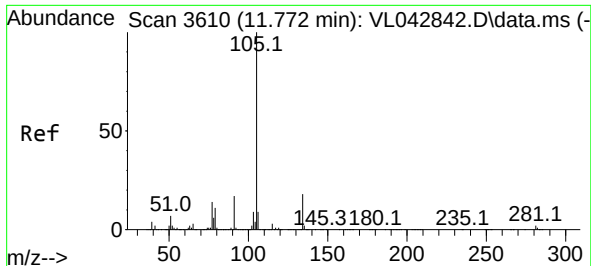


#66  
Benzyl Chloride  
Concen: 0.510 ppbv  
RT: 11.626 min Scan# 3565  
Delta R.T. 0.006 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 91 Resp: 4039  
Ion Ratio Lower Upper  
91 100  
126 19.0 14.2 21.4  
128 7.6 5.0 7.6#



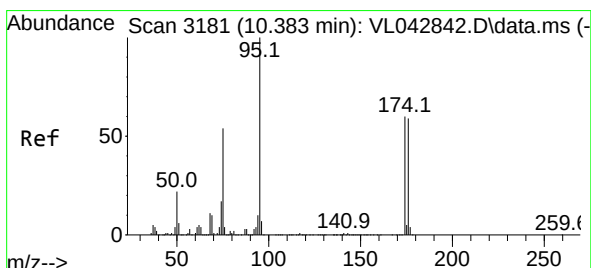
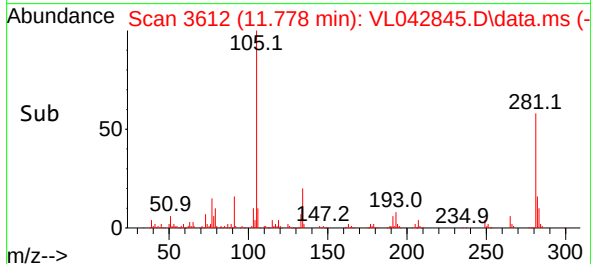
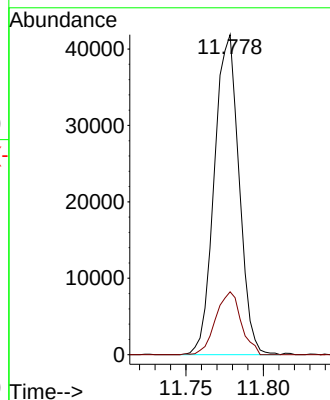
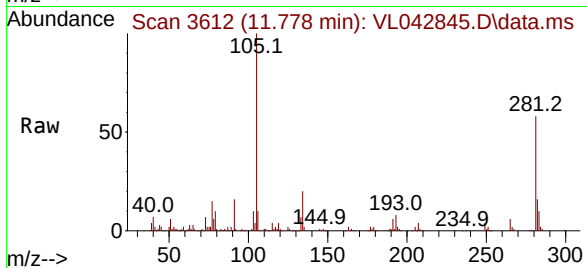




#67  
 sec-Butylbenzene  
 Concen: 0.530 ppbv  
 RT: 11.778 min Scan# 3612  
 Delta R.T. 0.006 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

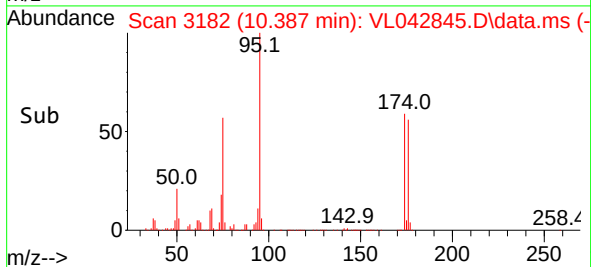
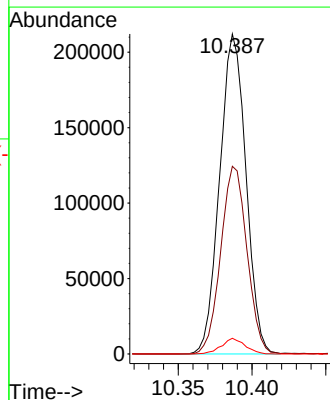
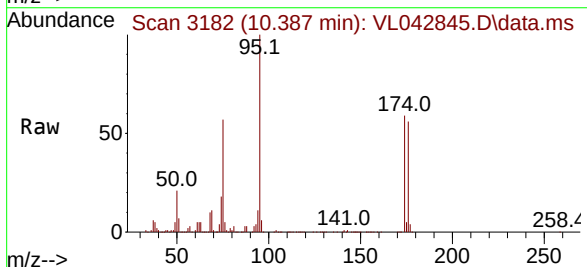
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

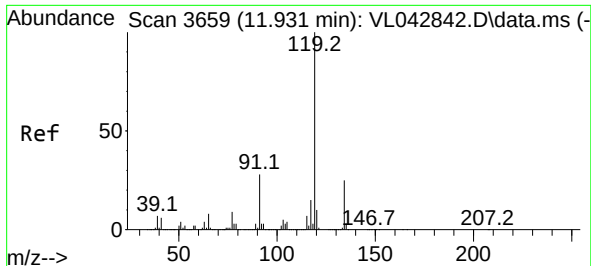
Tgt Ion:105 Resp: 46433  
 Ion Ratio Lower Upper  
 105 100  
 134 20.3 14.9 22.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.064 ppbv  
 RT: 10.387 min Scan# 3182  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

Tgt Ion: 95 Resp: 262663  
 Ion Ratio Lower Upper  
 95 100  
 174 58.8 48.4 72.6  
 175 4.4 3.8 5.8

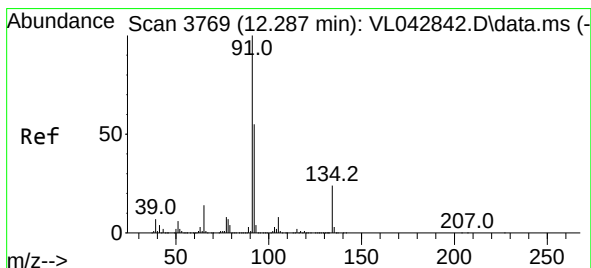
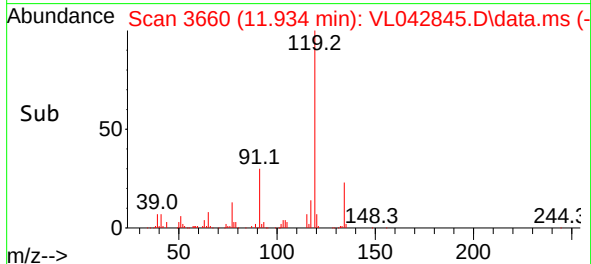
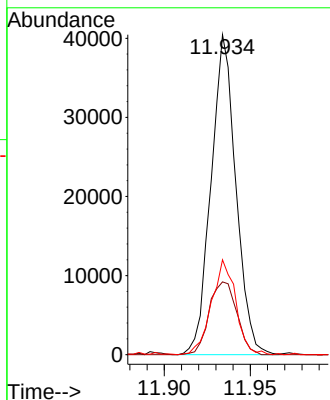
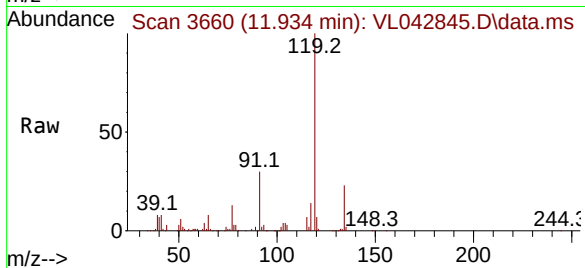




#69  
p-Isopropyltoluene  
Concen: 0.541 ppbv  
RT: 11.934 min Scan# 3660  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

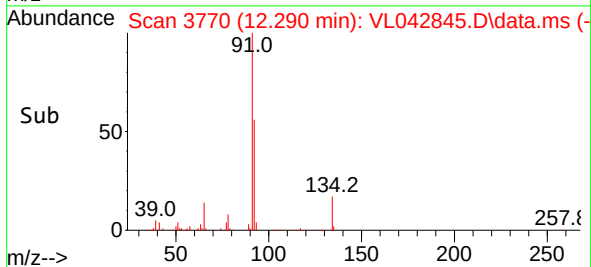
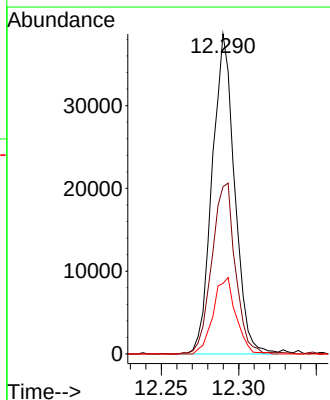
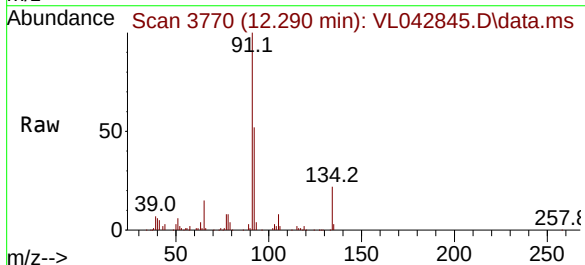
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

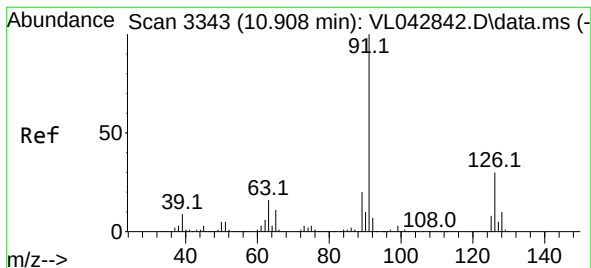
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 40686 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 25.4  | 20.6  | 30.8  |
| 91       | 29.0  | 22.6  | 34.0  |



#70  
n-Butylbenzene  
Concen: 0.521 ppbv  
RT: 12.290 min Scan# 3770  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 38867 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 56.1  | 44.6  | 66.8  |
| 134      | 24.2  | 19.0  | 28.4  |

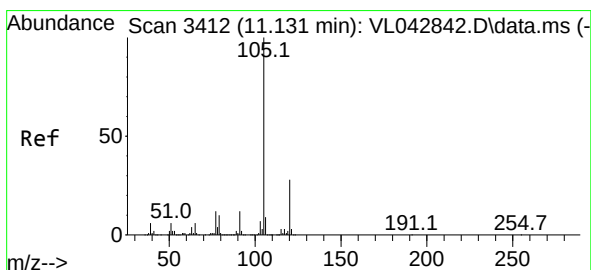
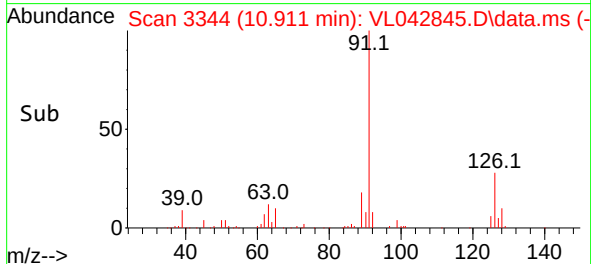
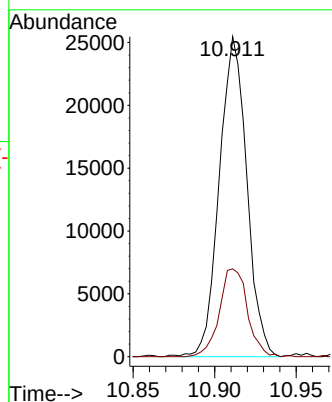
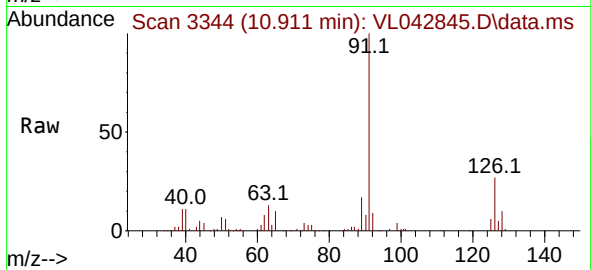




#71  
2-Chlorotoluene  
Concen: 0.541 ppbv  
RT: 10.911 min Scan# 3111  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

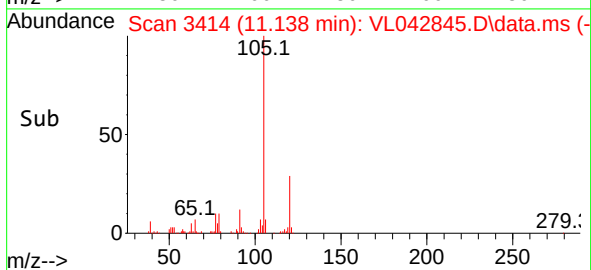
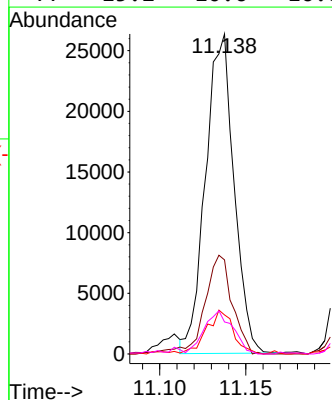
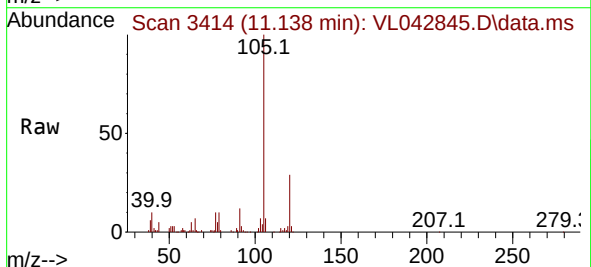
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

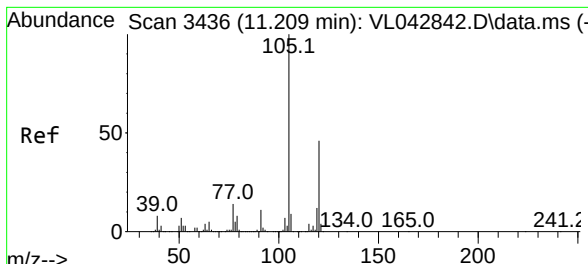
Tgt Ion: 91 Resp: 29736  
Ion Ratio Lower Upper  
91 100  
126 28.2 12.0 47.8



#72  
4-Ethyltoluene  
Concen: 0.515 ppbv  
RT: 11.138 min Scan# 3414  
Delta R.T. 0.007 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion: 105 Resp: 30234  
Ion Ratio Lower Upper  
105 100  
120 30.5 23.4 35.2  
91 13.8 9.8 14.6  
77 15.2 10.6 16.0

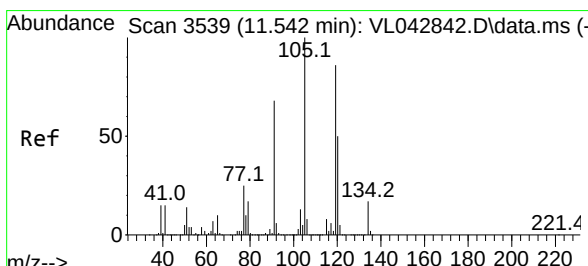
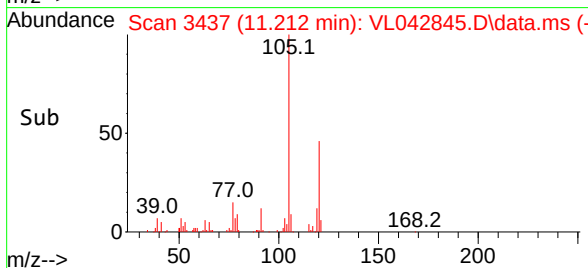
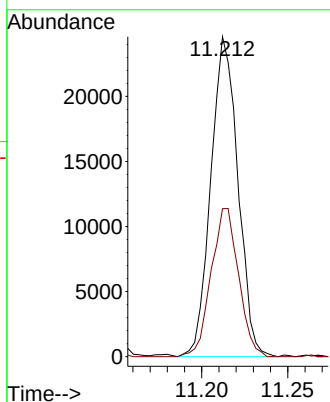
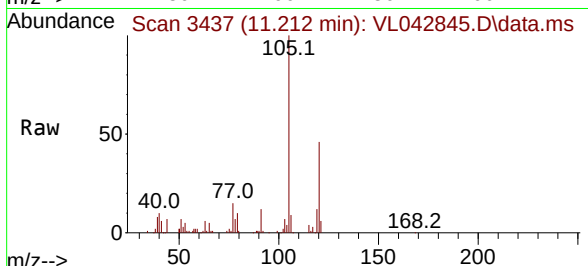




#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.540 ppbv  
 RT: 11.212 min Scan# 3437  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

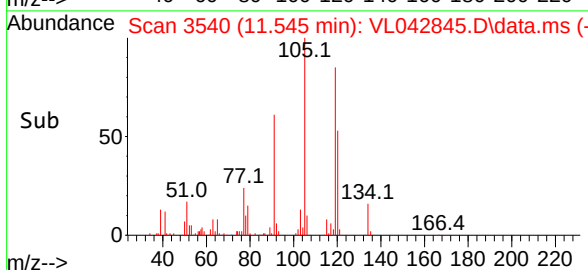
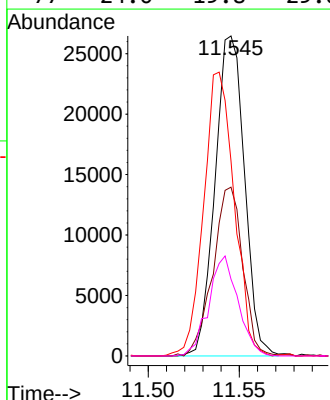
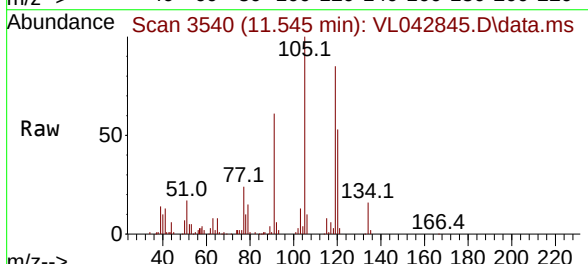
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.5

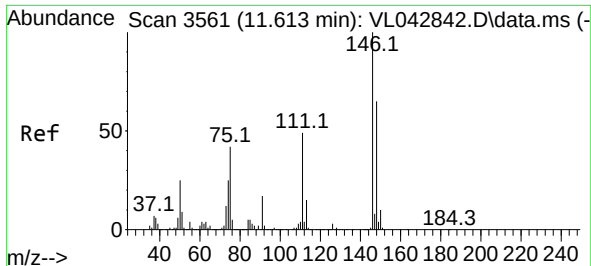
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 26942 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 46.2  | 36.6  | 54.8  |



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.543 ppbv  
 RT: 11.545 min Scan# 3540  
 Delta R.T. 0.003 min  
 Lab File: VL042845.D  
 Acq: 13 Aug 2025 10:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 29750 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 52.4  | 39.8  | 59.6  |
| 91        | 60.6  | 54.2  | 81.4  |
| 77        | 24.0  | 19.8  | 29.6  |

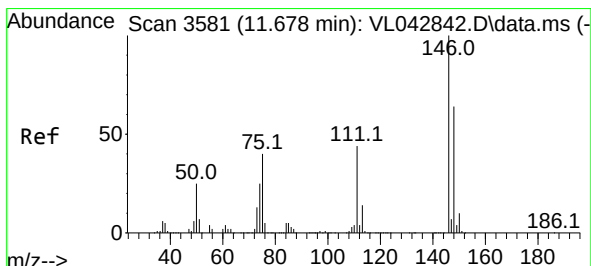
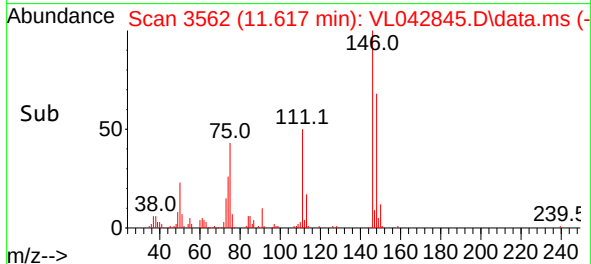
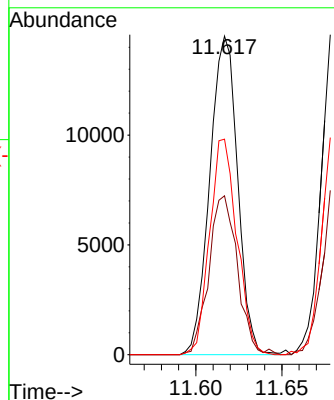
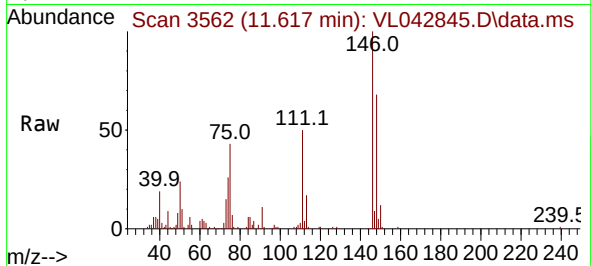




#75  
1,3-Dichlorobenzene  
Concen: 0.524 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

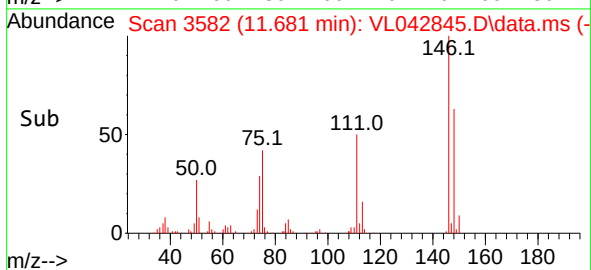
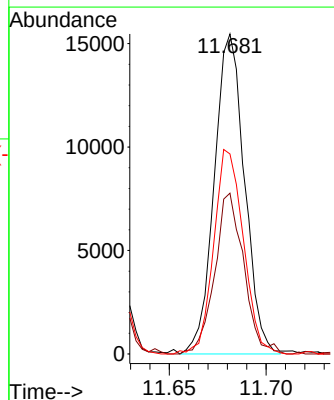
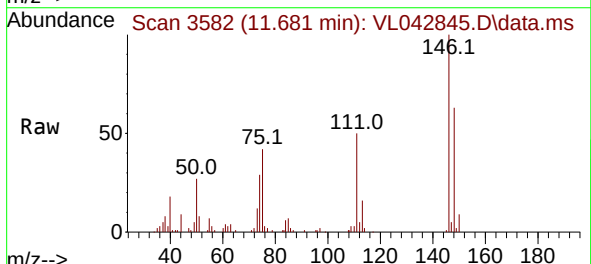
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

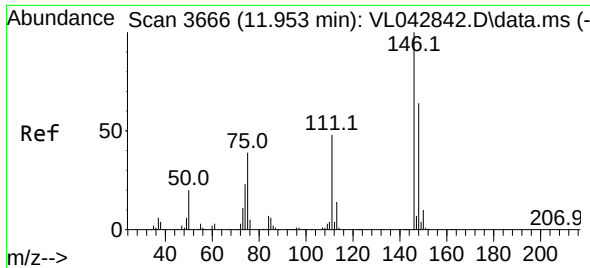
Tgt Ion:146 Resp: 16311  
Ion Ratio Lower Upper  
146 100  
111 51.2 23.9 71.7  
148 66.5 31.4 94.0



#76  
1,4-Dichlorobenzene  
Concen: 0.533 ppbv  
RT: 11.681 min Scan# 3582  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

Tgt Ion:146 Resp: 16803  
Ion Ratio Lower Upper  
146 100  
111 48.3 22.7 68.1  
148 62.7 31.8 95.3

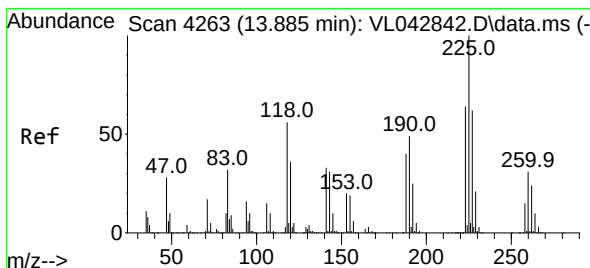
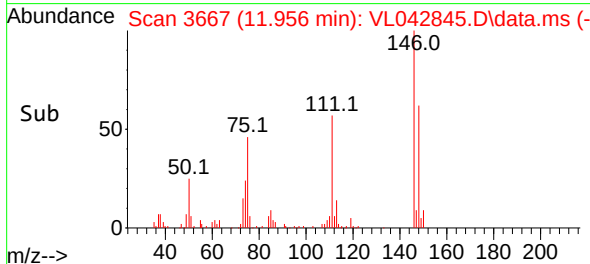
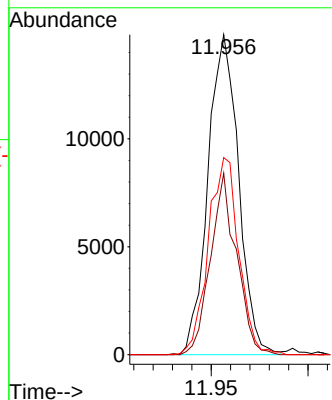
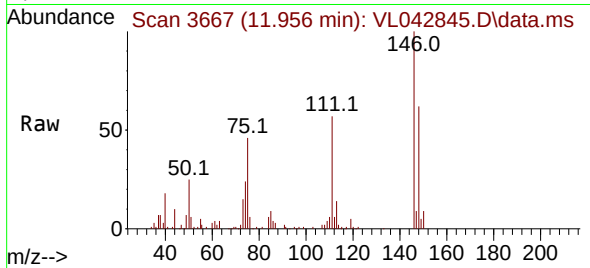




#77  
1,2-Dichlorobenzene  
Concen: 0.535 ppbv  
RT: 11.956 min Scan# 30  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

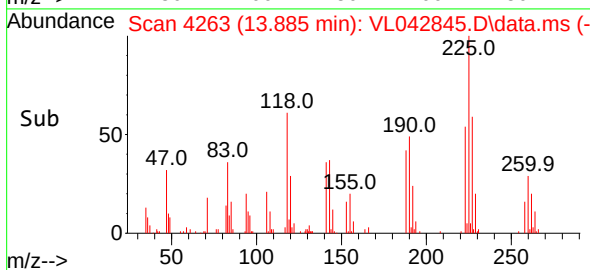
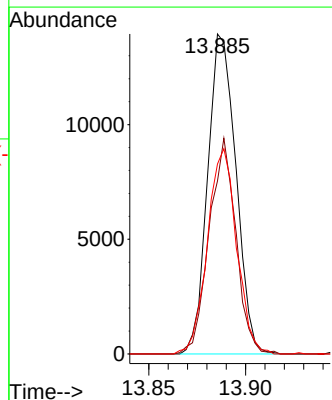
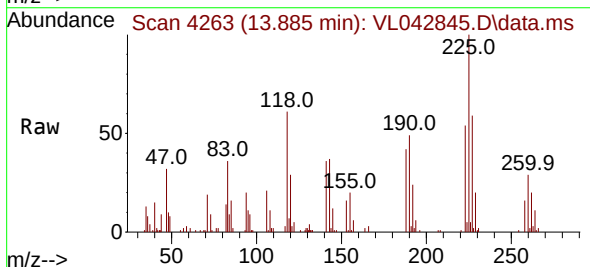
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

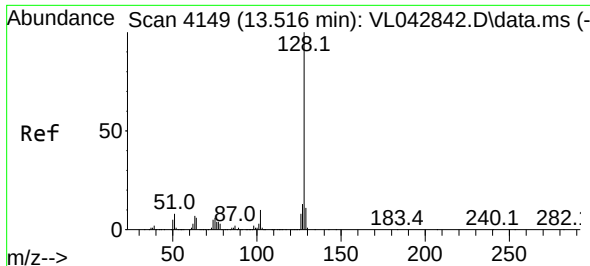
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:146 | Resp: | 16306     |
| Ion Ratio   | Lower | Upper     |
| 146         | 100   |           |
| 111         | 48.2  | 24.6 74.0 |
| 148         | 61.1  | 32.0 96.0 |



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.567 ppbv  
RT: 13.885 min Scan# 4263  
Delta R.T. 0.000 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 14165     |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 63.7  | 51.4 77.2 |
| 227         | 66.2  | 51.9 77.9 |

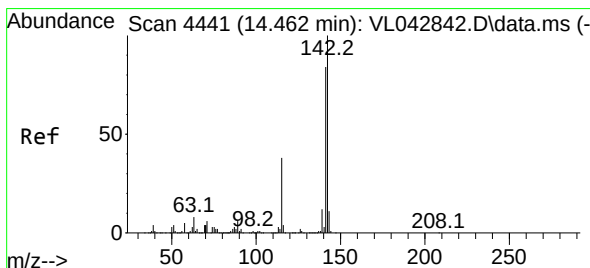
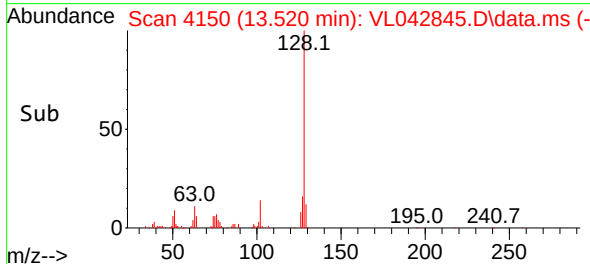
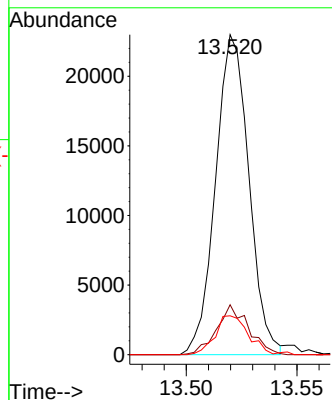
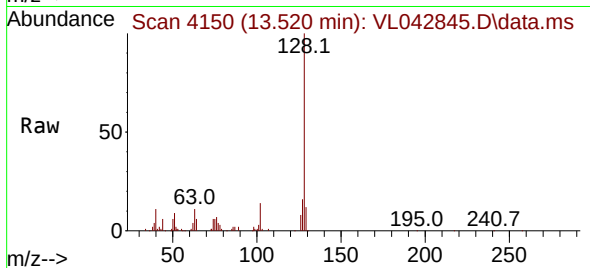




#79  
Naphthalene  
Concen: 0.491 ppbv  
RT: 13.520 min Scan# 4149  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

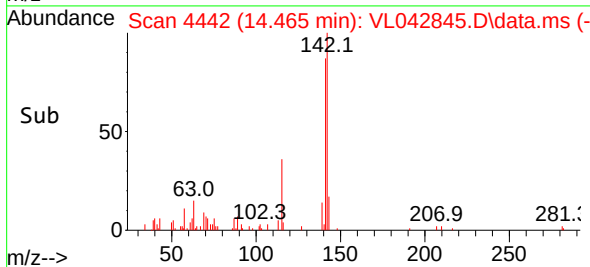
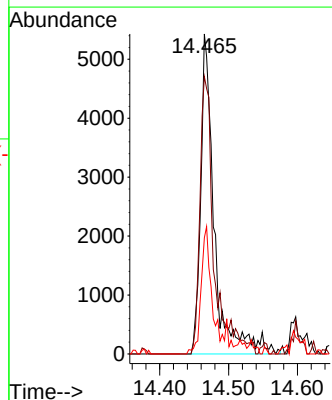
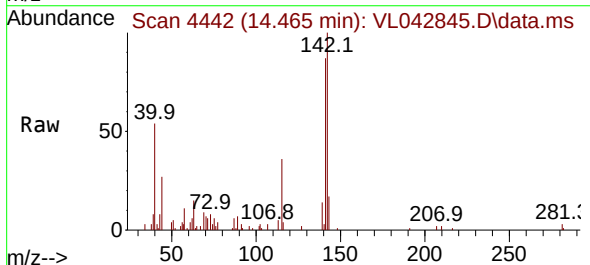
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.5

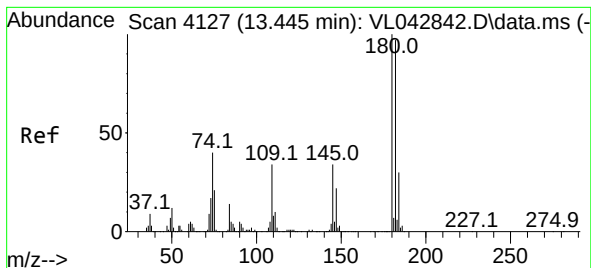
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 24056 |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 127       | 15.6  | 10.6  | 16.0  |
| 129       | 12.2  | 8.9   | 13.3  |



#80  
Naphthalene, 2-methyl-  
Concen: 0.405 ppbv  
RT: 14.465 min Scan# 4442  
Delta R.T. 0.003 min  
Lab File: VL042845.D  
Acq: 13 Aug 2025 10:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 142   | Resp: | 7482  |
| Ion Ratio | Lower | Upper |       |
| 142       | 100   |       |       |
| 141       | 90.9  | 67.0  | 100.6 |
| 115       | 38.5  | 30.9  | 46.3  |





#81

1,2,4-Trichlorobenzene

Concen: 0.434 ppbv

RT: 13.449 min Scan# 41

Delta R.T. 0.003 min

Lab File: VL042845.D

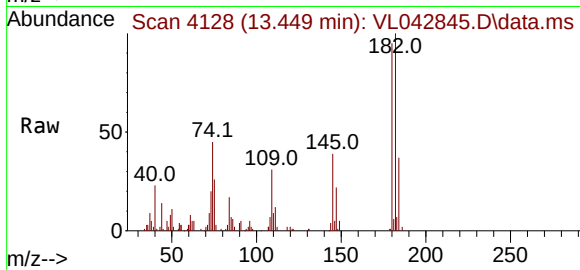
Acq: 13 Aug 2025 10:17

Instrument :

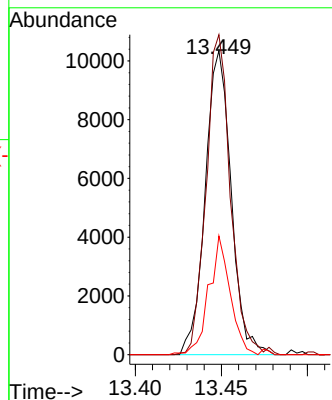
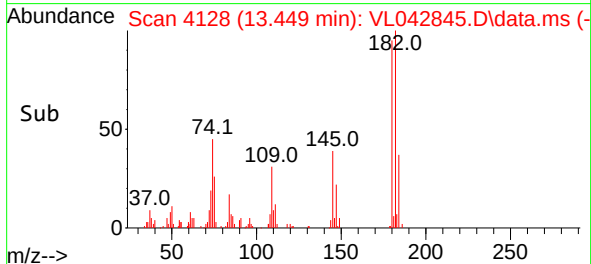
MSVOA\_L

ClientSampleId :

VSTDICC0.5



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 10844 |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 99.1  | 76.9  | 115.3 |
| 184      | 32.6  | 24.5  | 36.7  |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042846.D  
 Acq On : 13 Aug 2025 10:53  
 Operator : SY/MD  
 Sample : VSTDIC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1

Quant Time: Aug 14 01:49:21 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 123711   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.962 | 114  | 390520   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.888 | 117  | 345073   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| System Monitoring Compounds |        |       |          |          |      |         |
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 257439   | 9.948    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 99.500% |

|                               |       |     |       |       |        |     |
|-------------------------------|-------|-----|-------|-------|--------|-----|
| Target Compounds              |       |     |       |       | Qvalue |     |
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 1967  | 0.108 | ppbv   | 89  |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 2553  | 0.127 | ppbv   | 100 |
| 4) Chloromethane              | 1.538 | 50  | 1167  | 0.160 | ppbv # | 72  |
| 5) Vinyl Chloride             | 1.583 | 62  | 790   | 0.110 | ppbv # | 86  |
| 6) Bromomethane               | 1.674 | 94  | 414   | 0.144 | ppbv # | 32  |
| 7) Chloroethane               | 1.709 | 64  | 272   | 0.097 | ppbv # | 23  |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 1898  | 0.128 | ppbv   | 92  |
| 9) Propene                    | 1.486 | 41  | 1233  | 0.142 | ppbv # | 1   |
| 10) Heptane                   | 4.991 | 43  | 560   | 0.024 | ppbv # | 1   |
| 11) Trichlorofluoromethane    | 1.557 | 101 | 307   | 0.017 | ppbv   | 98  |
| 12) 1,1,2-Trichlorotrifluo... | 2.146 | 101 | 1758  | 0.123 | ppbv   | 93  |
| 13) Ethanol                   | 1.890 | 45  | 1584  | 1.847 | ppbv   | 80  |
| 14) Bromoethene               | 1.787 | 108 | 602   | 0.117 | ppbv # | 30  |
| 15) Acetone                   | 1.839 | 43  | 3411  | 0.208 | ppbv # | 72  |
| 16) 1,3-Butadiene             | 1.612 | 39  | 795   | 0.107 | ppbv # | 16  |
| 17) tert-Butyl alcohol        | 2.046 | 59  | 2697  | 0.139 | ppbv # | 64  |
| 18) 1,1-Dichloroethene        | 2.039 | 96  | 964   | 0.154 | ppbv   | 92  |
| 19) Isopropyl Alcohol         | 1.890 | 45  | 1584  | 0.162 | ppbv # | 76  |
| 20) Methylene Chloride        | 2.065 | 84  | 2577  | 0.376 | ppbv   | 92  |
| 21) Allyl Chloride            | 2.098 | 41  | 2198  | 0.190 | ppbv # | 67  |
| 22) trans-1,2-Dichloroethene  | 2.039 | 96  | 964   | 0.138 | ppbv   | 86  |
| 23) Vinyl Acetate             | 2.463 | 43  | 3002  | 0.139 | ppbv # | 69  |
| 24) 1,1-Dichloroethane        | 2.415 | 63  | 1879  | 0.130 | ppbv # | 95  |
| 25) Ethyl Acetate             | 2.836 | 43  | 1206  | 0.030 | ppbv # | 74  |
| 26) Hexane                    | 2.836 | 57  | 2223  | 0.122 | ppbv # | 3   |
| 27) Carbon Disulfide          | 2.156 | 76  | 965   | 0.054 | ppbv # | 1   |
| 28) Methyl tert-Butyl Ether   | 2.447 | 73  | 1300  | 0.139 | ppbv # | 1   |
| 29) Chloroform                | 2.855 | 83  | 2962  | 0.113 | ppbv   | 98  |
| 30) Cyclohexane               | 3.865 | 84  | 835   | 0.052 | ppbv # | 1   |
| 31) cis-1,2-Dichloroethene    | 2.725 | 61  | 1839  | 0.101 | ppbv # | 86  |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 2627  | 0.095 | ppbv   | 86  |
| 34) 2-Butanone                | 2.564 | 43  | 2970  | 0.113 | ppbv   | 93  |
| 35) Carbon Tetrachloride      | 3.774 | 117 | 2883  | 0.107 | ppbv   | 89  |
| 36) Benzene                   | 3.661 | 78  | 2430  | 0.065 | ppbv   | 97  |
| 37) 1,2-Dichloroethane        | 3.230 | 62  | 576   | 0.029 | ppbv # | 47  |
| 38) Trichloroethene           | 4.557 | 130 | 624   | 0.037 | ppbv # | 79  |
| 39) 1,2-Dichloropropane       | 3.962 | 63  | 96098 | 7.036 | ppbv # | 26  |
| 40) 1,4-Dioxane               | 4.625 | 88  | 693   | 0.108 | ppbv # | 17  |
| 41) Tetrahydrofuran           | 3.049 | 42  | 78    | 0.005 | ppbv # | 36  |
| 42) Bromodichloromethane      | 4.489 | 83  | 756   | 0.026 | ppbv # | 27  |
| 43) Methyl Methacrylate       | 4.894 | 69  | 1289  | 0.084 | ppbv # | 61  |
| 44) 2,2,4-Trimethylpentane    | 4.645 | 57  | 2178  | 0.035 | ppbv # | 1   |
| 45) t-1,3-Dichloropropene     | 6.415 | 75  | 486   | 0.028 | ppbv   | 94  |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042846.D  
 Acq On : 13 Aug 2025 10:53  
 Operator : SY/MD  
 Sample : VSTDIC0.1  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1

Quant Time: Aug 14 01:49:21 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

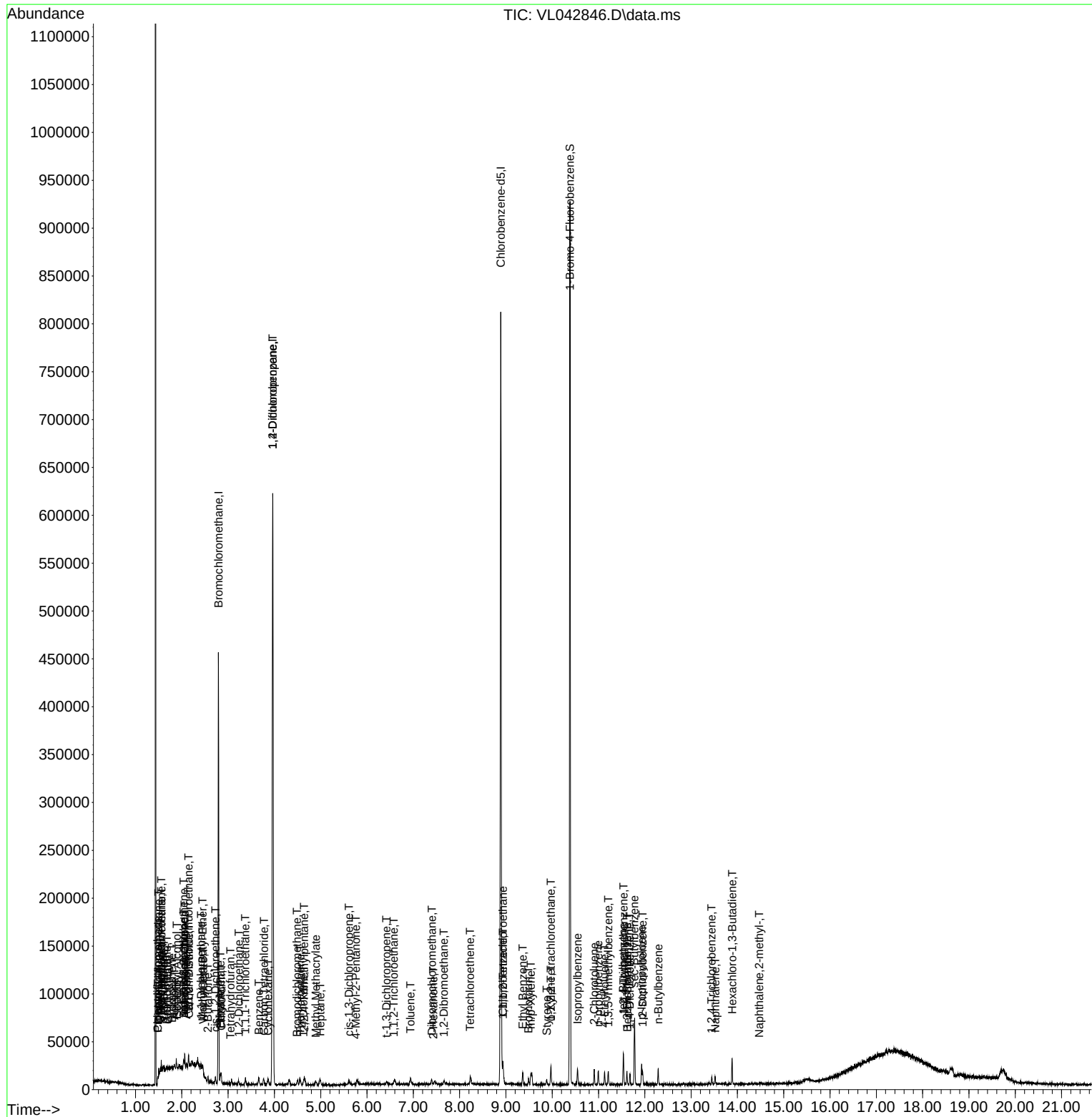
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.609  | 75   | 1454     | 0.067 | ppbv # | 85       |
| 47) 1,1,2-Trichloroethane     | 6.580  | 97   | 260      | 0.018 | ppbv # | 20       |
| 48) Dibromochloromethane      | 7.399  | 129  | 2052     | 0.088 | ppbv   | 74       |
| 49) Bromoform                 | 9.487  | 173  | 1909     | 0.099 | ppbv   | 91       |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 266      | 0.007 | ppbv # | 38       |
| 51) 2-Hexanone                | 7.432  | 43   | 57       | 0.002 | ppbv # | 27       |
| 52) Tetrachloroethene         | 8.228  | 164  | 425      | 0.031 | ppbv # | 56       |
| 53) Toluene                   | 6.940  | 91   | 1918     | 0.043 | ppbv # | 21       |
| 54) 1,2-Dibromoethane         | 7.658  | 107  | 828      | 0.039 | ppbv # | 72       |
| 56) 1,1,1,2-Tetrachloroethane | 8.937  | 131  | 573      | 0.032 | ppbv # | 1        |
| 57) Chlorobenzene             | 8.933  | 112  | 3936     | 0.120 | ppbv # | 92       |
| 58) Ethyl Benzene             | 9.361  | 91   | 6413     | 0.105 | ppbv   | 97       |
| 59) m/p-Xylene                | 9.539  | 91   | 4356     | 0.091 | ppbv # | 100      |
| 60) o-Xylene                  | 9.972  | 91   | 5090     | 0.106 | ppbv   | 91       |
| 61) Styrene                   | 9.882  | 104  | 2306     | 0.103 | ppbv   | 98       |
| 62) Isopropylbenzene          | 10.545 | 105  | 7444     | 0.106 | ppbv   | 94       |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 2672     | 0.102 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.995 | 120  | 1372     | 0.077 | ppbv # | 36       |
| 65) tert-Butylbenzene         | 11.532 | 119  | 6442     | 0.104 | ppbv   | 88       |
| 66) Benzyl Chloride           | 11.620 | 91   | 276      | 0.035 | ppbv # | 65       |
| 67) sec-Butylbenzene          | 11.772 | 105  | 9332     | 0.107 | ppbv # | 91       |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 7360     | 0.099 | ppbv # | 93       |
| 70) n-Butylbenzene            | 12.290 | 91   | 6458     | 0.087 | ppbv   | 95       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 5660     | 0.104 | ppbv   | 100      |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 5621     | 0.097 | ppbv # | 88       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 5297     | 0.107 | ppbv   | 93       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 5786     | 0.106 | ppbv # | 83       |
| 75) 1,3-Dichlorobenzene       | 11.617 | 146  | 3112     | 0.101 | ppbv   | 93       |
| 76) 1,4-Dichlorobenzene       | 11.675 | 146  | 2717     | 0.087 | ppbv   | 92       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 3151     | 0.104 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.885 | 225  | 2639     | 0.106 | ppbv   | 95       |
| 79) Naphthalene               | 13.520 | 128  | 3670     | 0.075 | ppbv # | 94       |
| 80) Naphthalene,2-methyl-     | 14.471 | 142  | 682      | 0.037 | ppbv # | 82       |
| 81) 1,2,4-Trichlorobenzene    | 13.442 | 180  | 1342     | 0.054 | ppbv   | 90       |

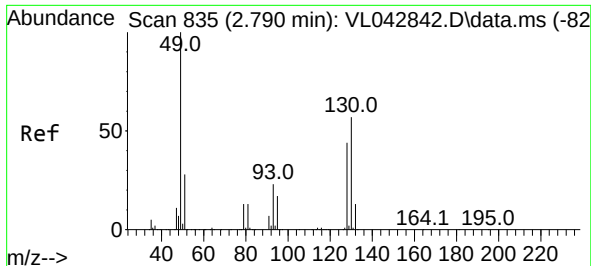
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Acq On : 13 Aug 2025 10:53  
Operator : SY/MD  
Sample : VSTDIC0.1  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

Quant Time: Aug 14 01:49:21 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
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Response via : Initial Calibration

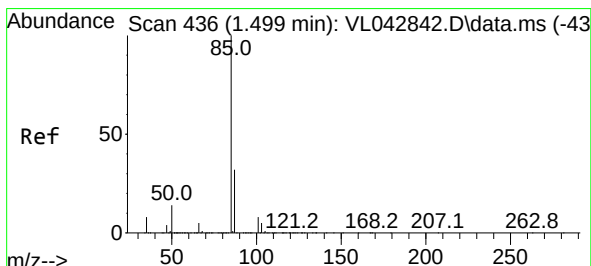
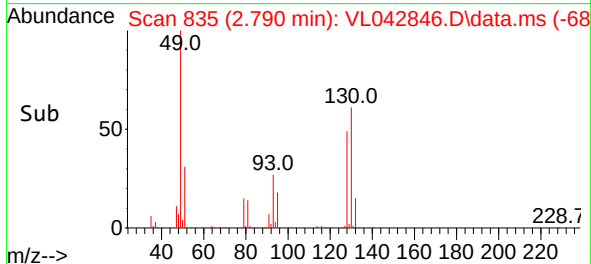
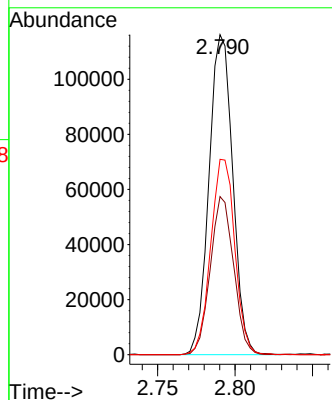
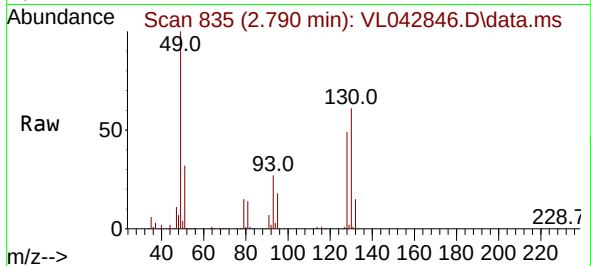




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

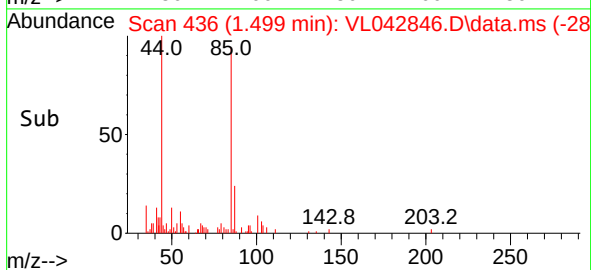
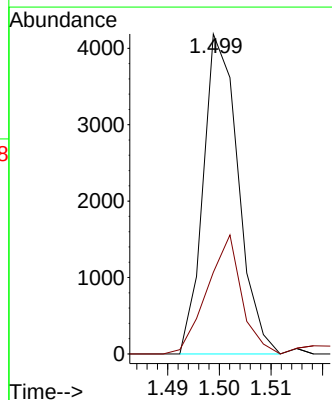
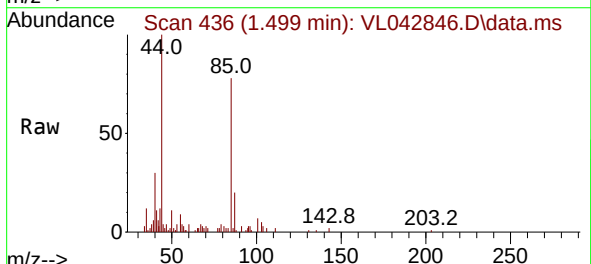
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

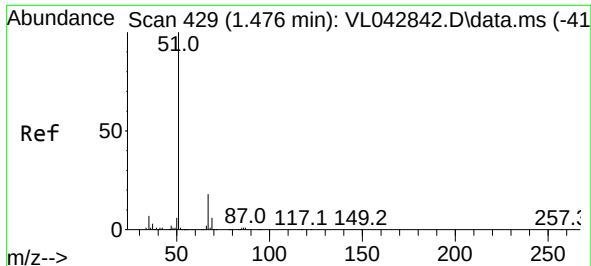
Tgt Ion: 49 Resp: 123711  
Ion Ratio Lower Upper  
49 100  
128 48.6 23.7 71.1  
130 62.1 30.6 91.6



#2  
Dichlorodifluoromethane  
Concen: 0.108 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 85 Resp: 1967  
Ion Ratio Lower Upper  
85 100  
87 25.5 25.3 37.9

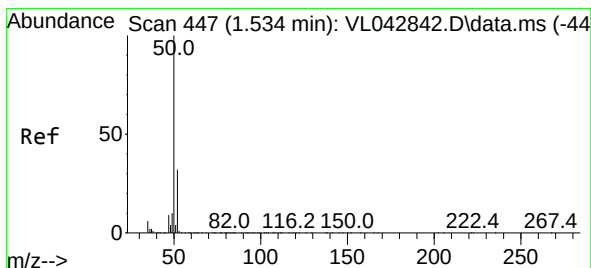
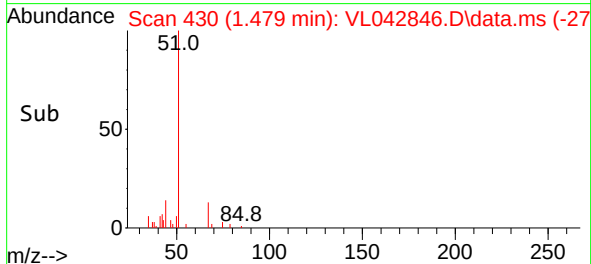
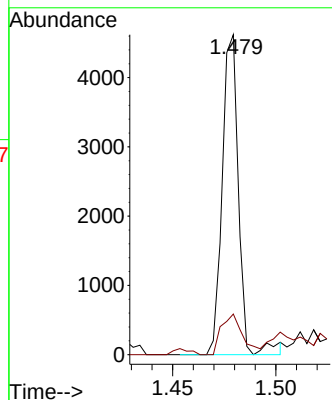
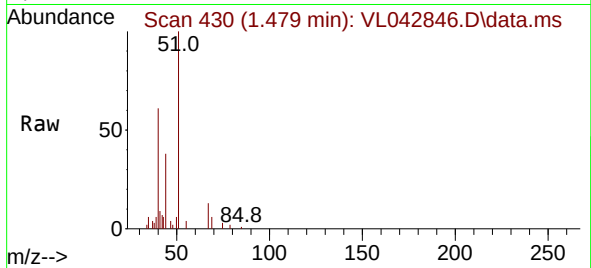




#3  
Chlorodifluoromethane  
Concen: 0.127 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

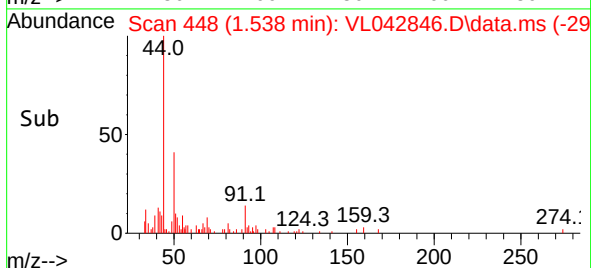
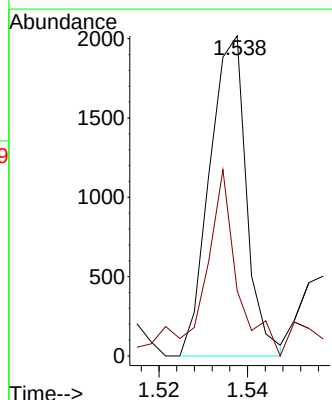
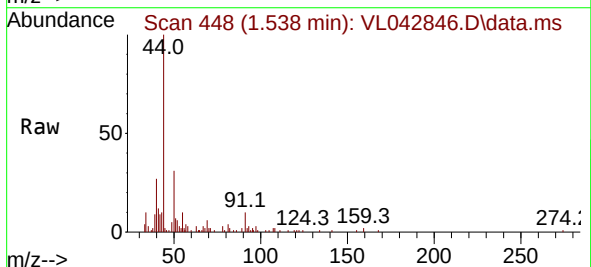
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

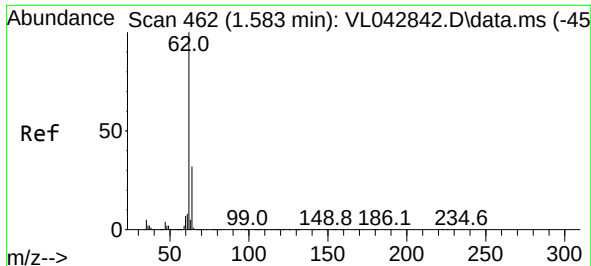
Tgt Ion: 51 Resp: 2553  
Ion Ratio Lower Upper  
51 100  
67 18.6 14.9 22.3



#4  
Chloromethane  
Concen: 0.160 ppbv  
RT: 1.538 min Scan# 448  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 50 Resp: 1167  
Ion Ratio Lower Upper  
50 100  
52 16.8 25.9 38.9#

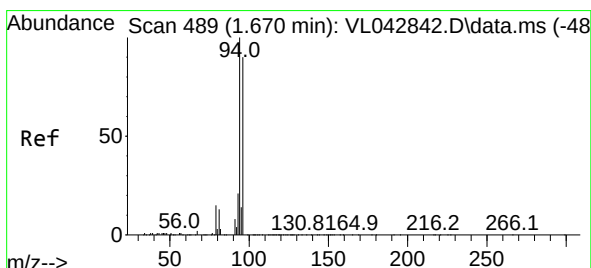
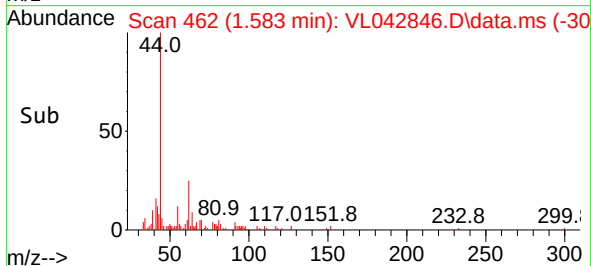
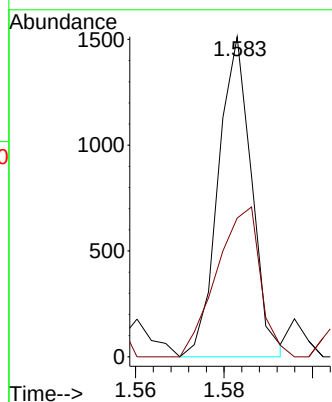
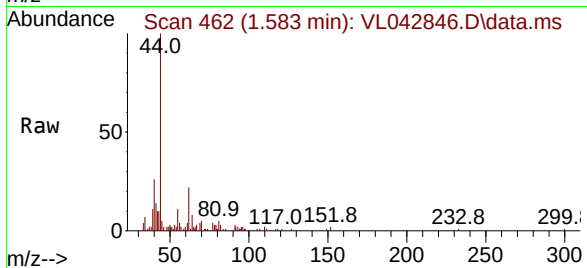




#5  
 Vinyl Chloride  
 Concen: 0.110 ppbv  
 RT: 1.583 min Scan# 414  
 Delta R.T. -0.000 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

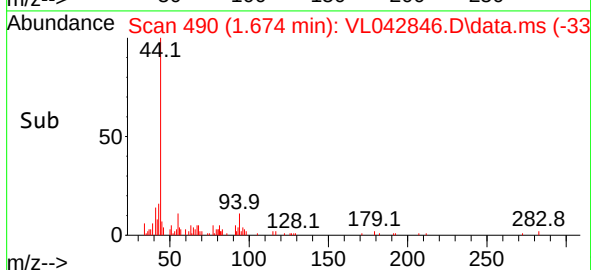
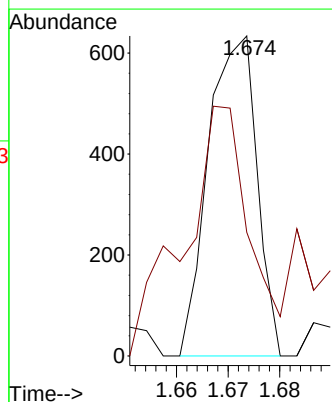
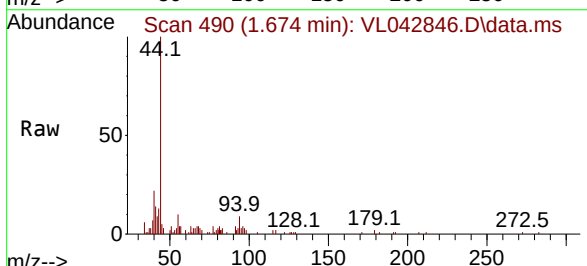
Instrument :  
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 ClientSampleId :  
 VSTDIC0.1

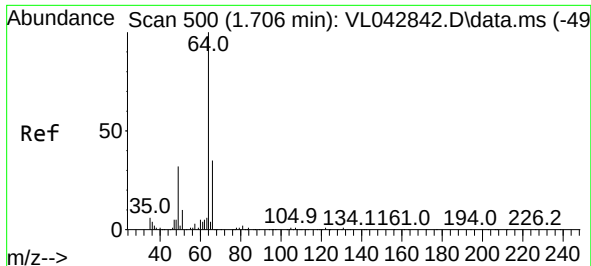
Tgt Ion: 62 Resp: 790  
 Ion Ratio Lower Upper  
 62 100  
 64 39.7 25.4 38.2#



#6  
 Bromomethane  
 Concen: 0.144 ppbv  
 RT: 1.674 min Scan# 490  
 Delta R.T. 0.003 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

Tgt Ion: 94 Resp: 414  
 Ion Ratio Lower Upper  
 94 100  
 96 26.3 72.1 108.1#

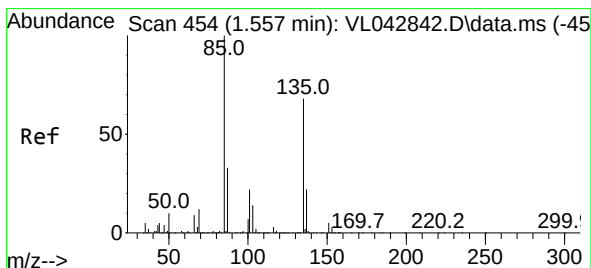
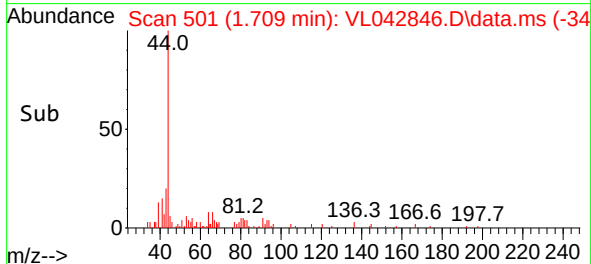
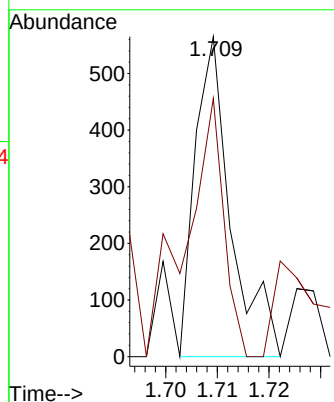
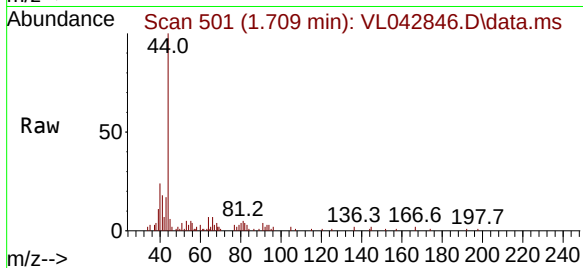




#7  
Chloroethane  
Concen: 0.097 ppbv  
RT: 1.709 min Scan# 500  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

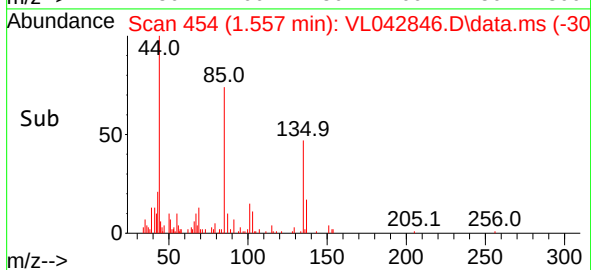
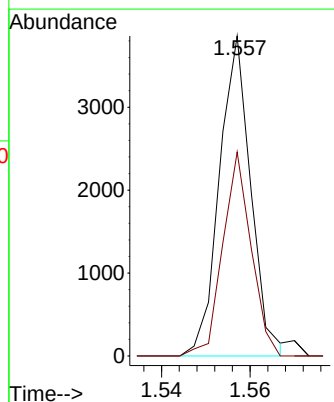
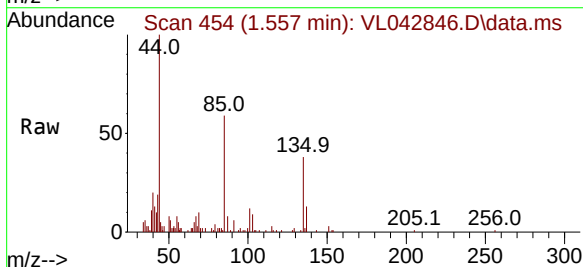
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

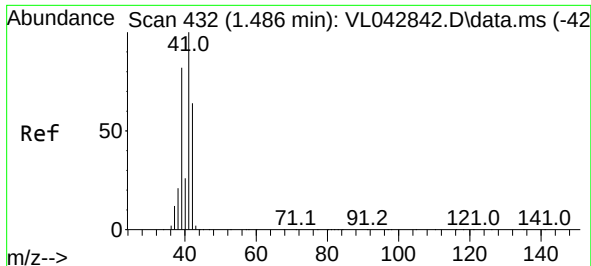
Tgt Ion: 64 Resp: 272  
Ion Ratio Lower Upper  
64 100  
66 80.7 28.6 42.8#



#8  
Dichlorotetrafluoroethane  
Concen: 0.128 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 85 Resp: 1898  
Ion Ratio Lower Upper  
85 100  
135 57.6 51.2 76.8

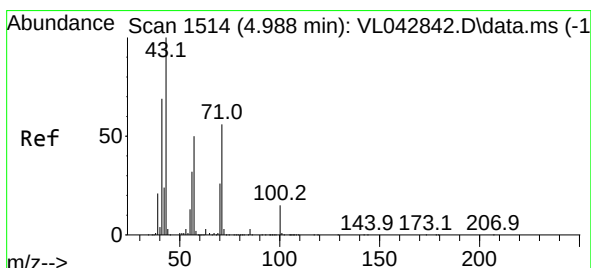
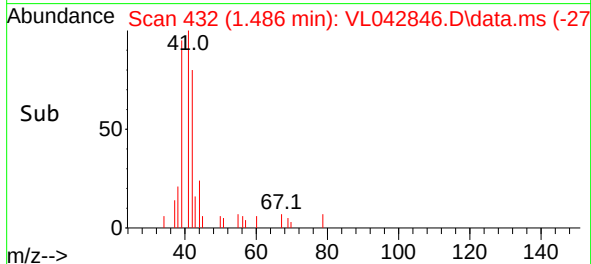
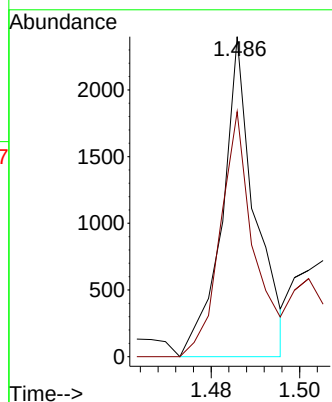
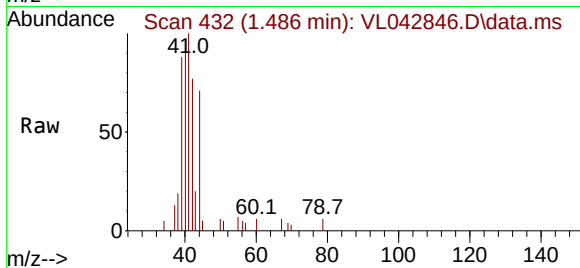




#9  
Propene  
Concen: 0.142 ppbv  
RT: 1.486 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

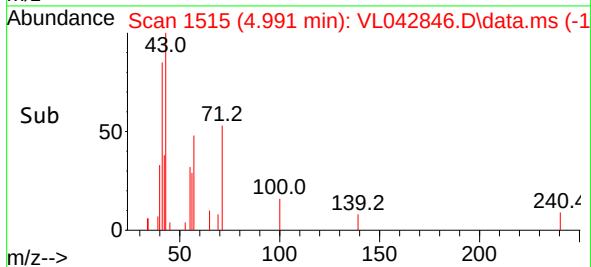
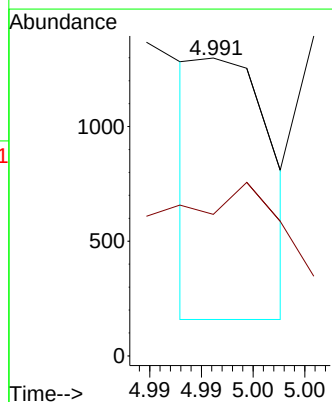
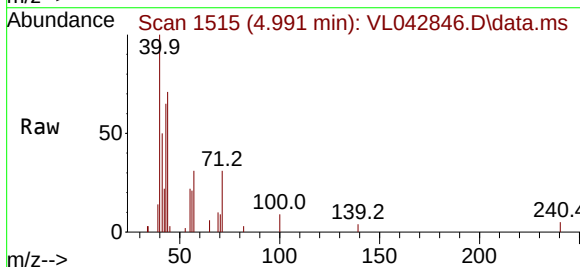
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC0.1

Tgt Ion: 41 Resp: 1233  
Ion Ratio Lower Upper  
41 100  
42 148.2 53.0 79.4#

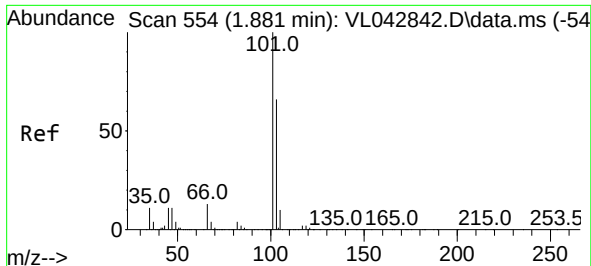


#10  
Heptane  
Concen: 0.024 ppbv  
RT: 4.991 min Scan# 1515  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 560  
Ion Ratio Lower Upper  
43 100  
57 281.8 41.4 62.0#



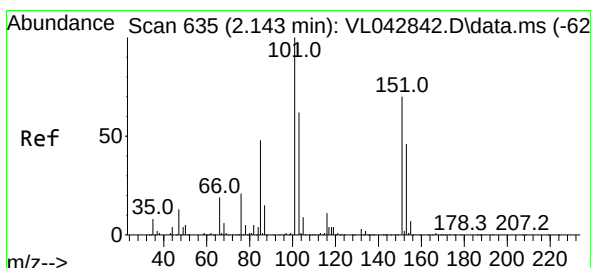
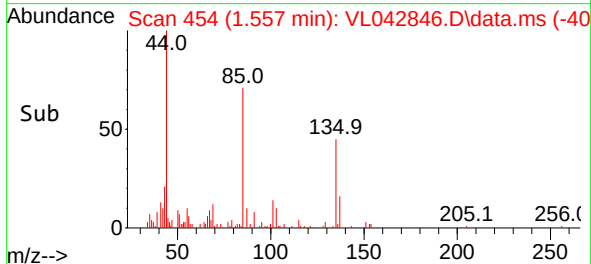
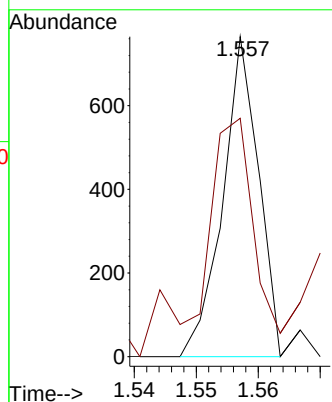
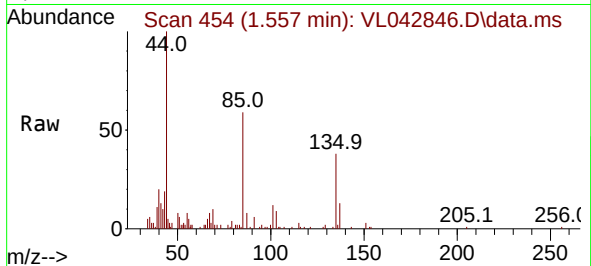




#11  
 Trichlorofluoromethane  
 Concen: 0.017 ppbv  
 RT: 1.557 min Scan# 411  
 Delta R.T. -0.324 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

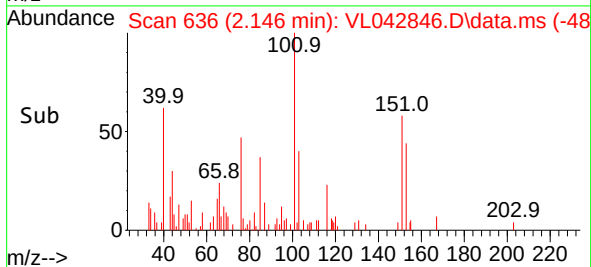
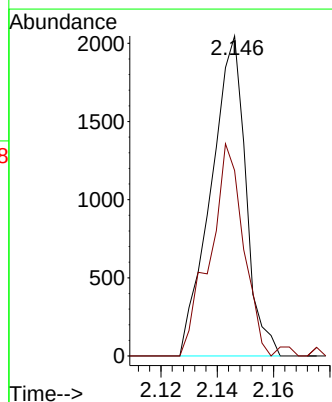
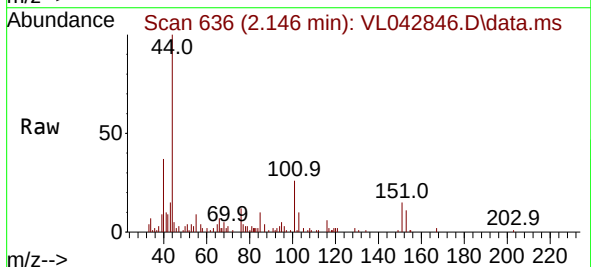
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

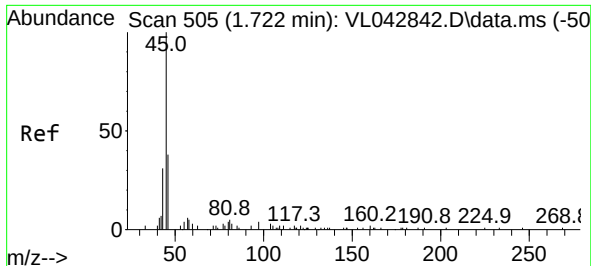
Tgt Ion:101 Resp: 307  
 Ion Ratio Lower Upper  
 101 100  
 103 67.2 52.5 78.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.123 ppbv  
 RT: 2.146 min Scan# 636  
 Delta R.T. 0.003 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

Tgt Ion:101 Resp: 1758  
 Ion Ratio Lower Upper  
 101 100  
 151 64.7 56.4 84.6

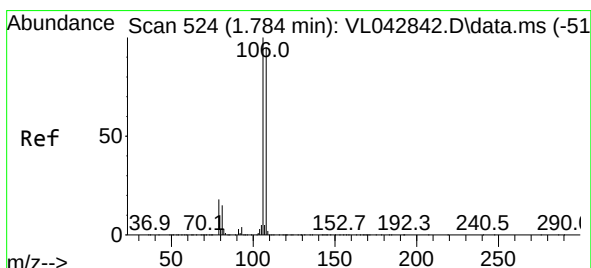
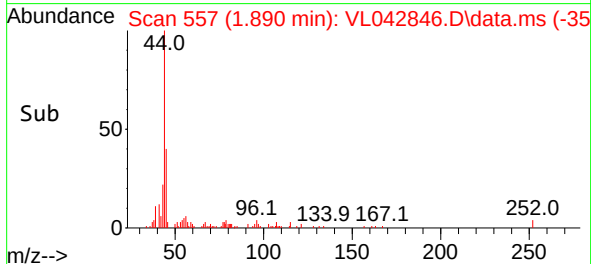
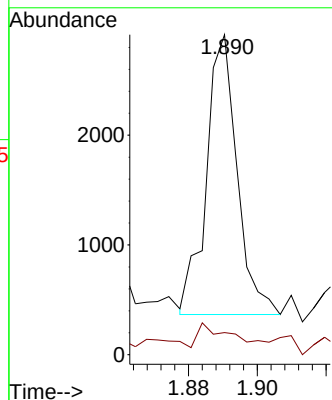
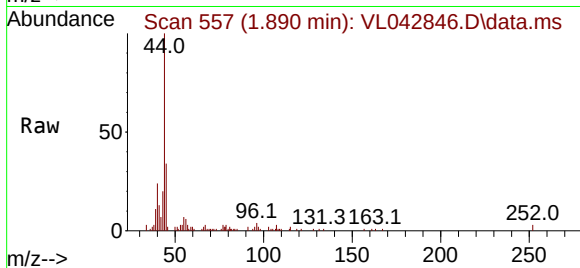




#13  
Ethanol  
Concen: 1.847 ppbv  
RT: 1.890 min Scan# 51  
Delta R.T. 0.168 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

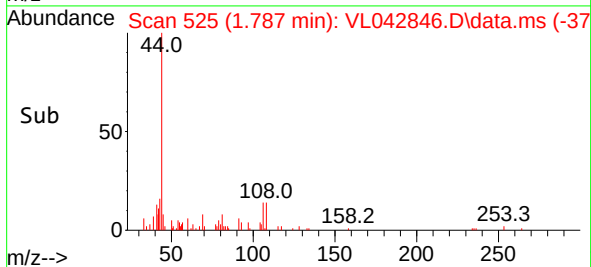
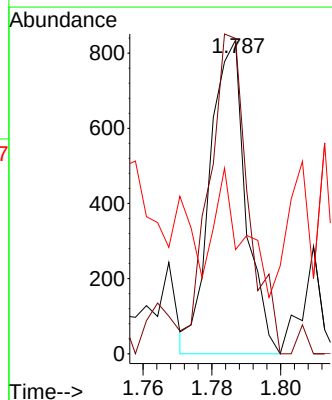
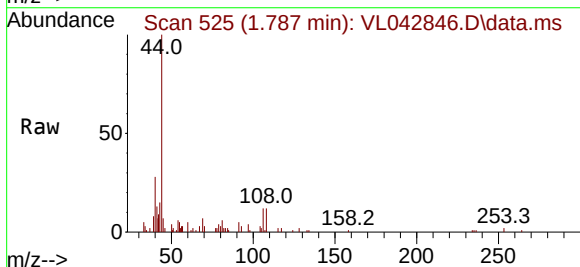
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

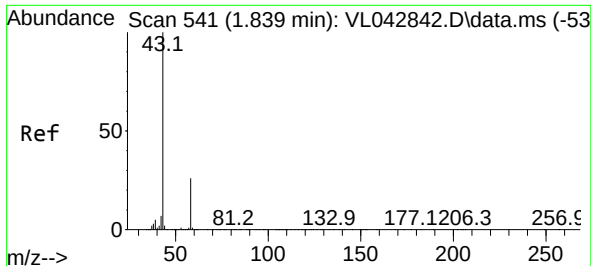
Tgt Ion: 45 Resp: 1584  
Ion Ratio Lower Upper  
45 100  
46 30.6 17.5 69.9



#14  
Bromoethene  
Concen: 0.117 ppbv  
RT: 1.787 min Scan# 525  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 108 Resp: 602  
Ion Ratio Lower Upper  
108 100  
106 149.0 85.1 127.7#  
79 122.9 16.3 24.5#

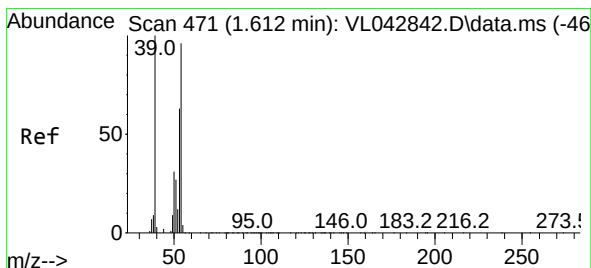
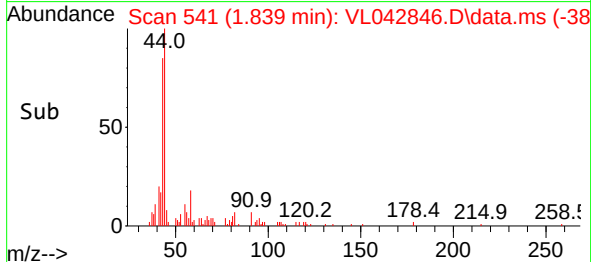
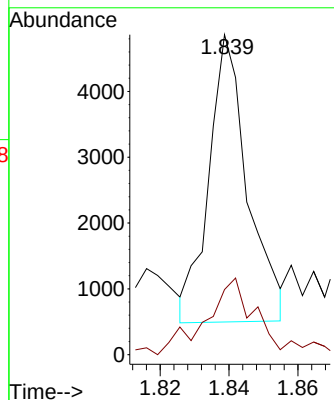
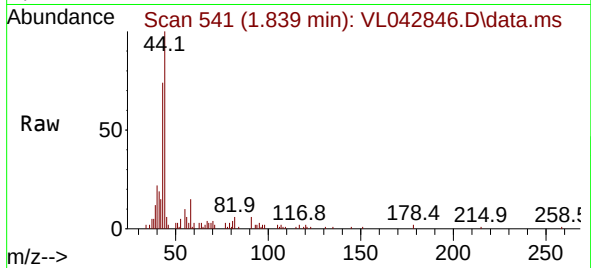




#15  
Acetone  
Concen: 0.208 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

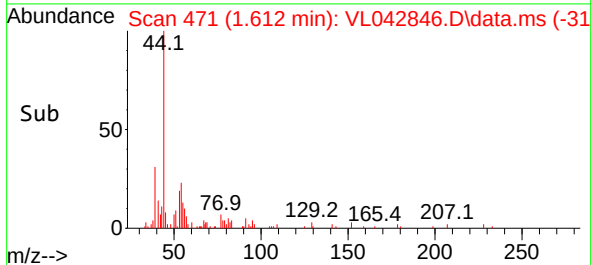
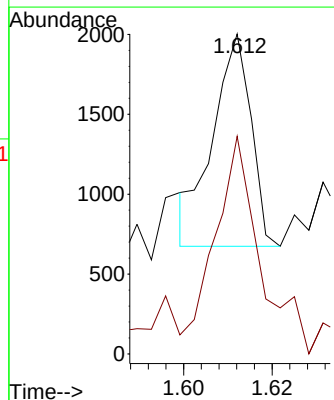
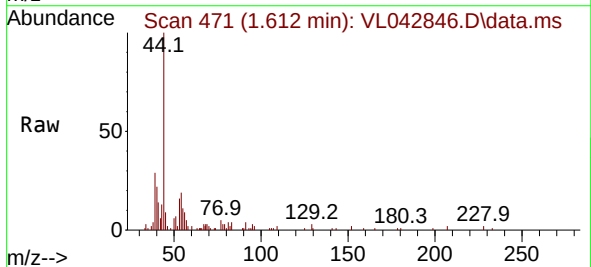
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

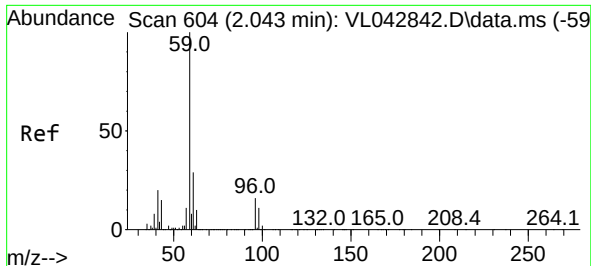
Tgt Ion: 43 Resp: 3411  
Ion Ratio Lower Upper  
43 100  
58 42.9 22.4 33.6#



#16  
1,3-Butadiene  
Concen: 0.107 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 39 Resp: 795  
Ion Ratio Lower Upper  
39 100  
54 153.6 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 0.139 ppbv

RT: 2.046 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

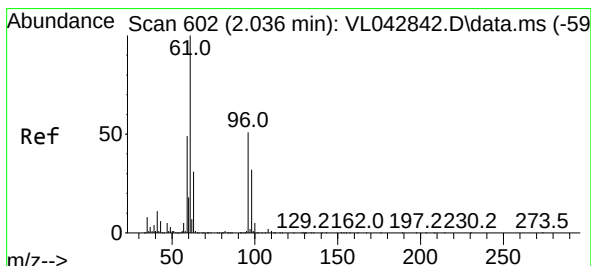
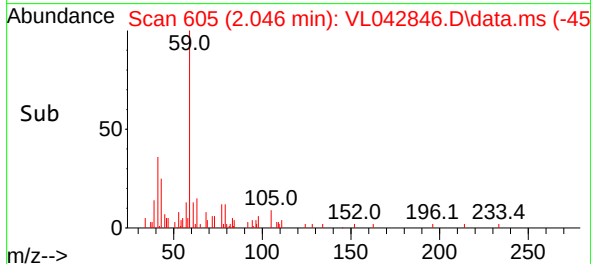
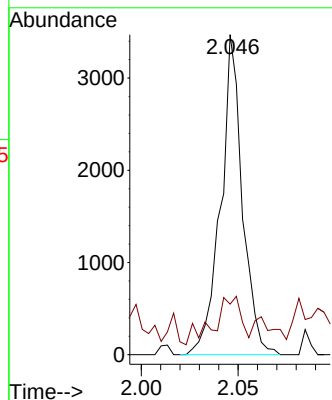
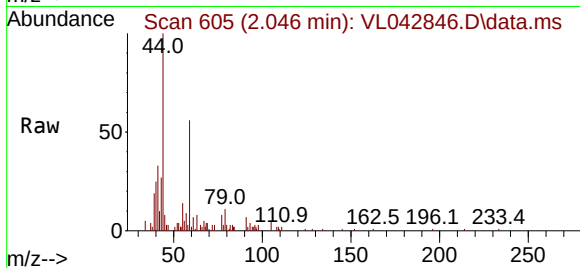
VSTDIC0.1

Tgt Ion: 59 Resp: 2697

Ion Ratio Lower Upper

59 100

57 24.9 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 0.154 ppbv

RT: 2.039 min Scan# 603

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

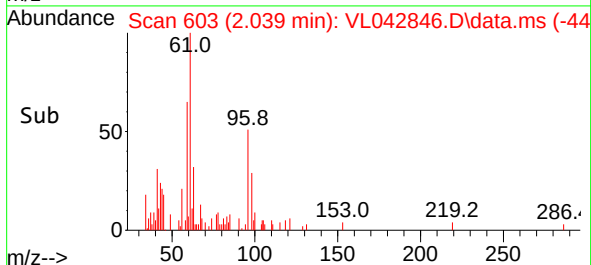
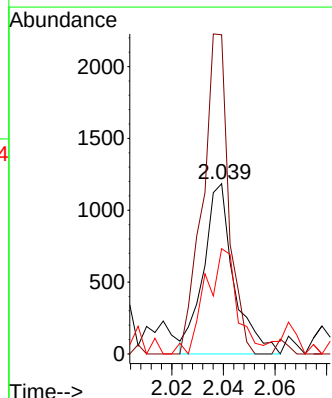
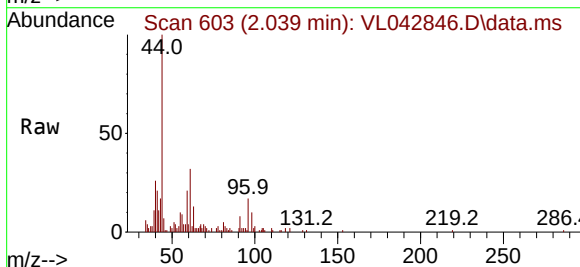
Tgt Ion: 96 Resp: 964

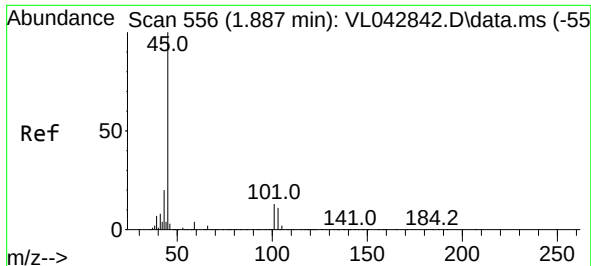
Ion Ratio Lower Upper

96 100

61 187.5 158.2 237.4

98 55.6 50.6 76.0

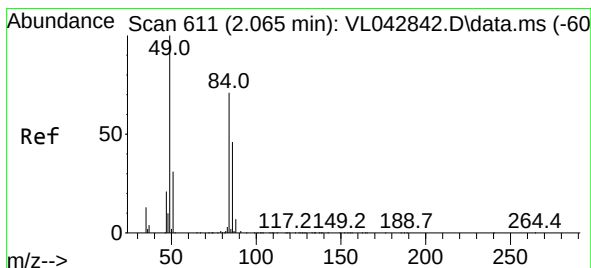
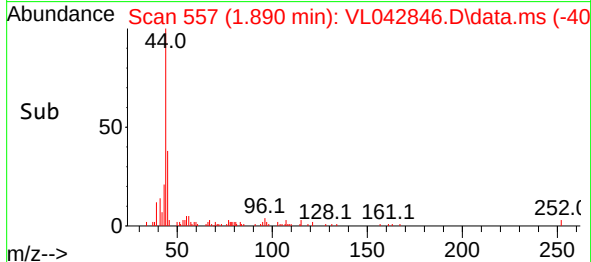
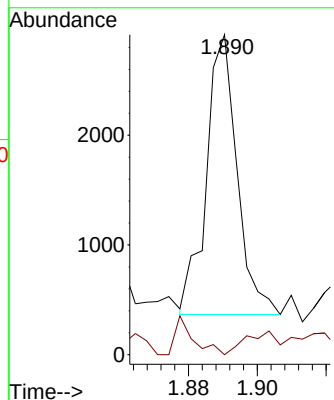
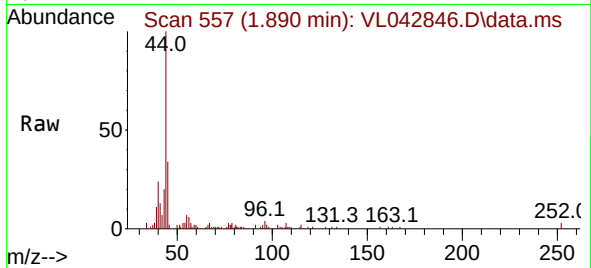




#19  
Isopropyl Alcohol  
Concen: 0.162 ppbv  
RT: 1.890 min Scan# 557  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

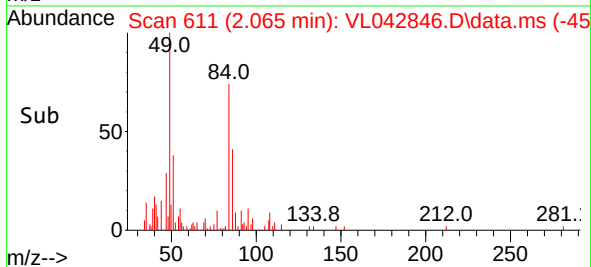
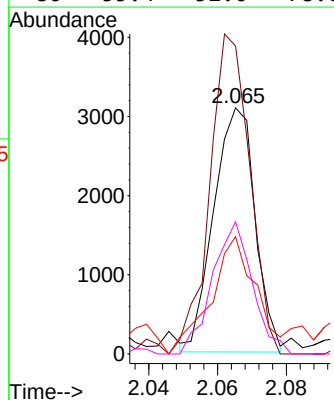
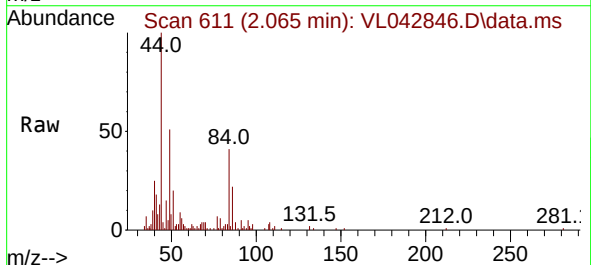
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

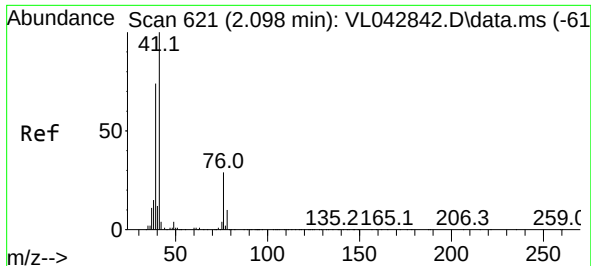
Tgt Ion: 45 Resp: 1584  
Ion Ratio Lower Upper  
45 100  
58 26.0 32.7 49.1#



#20  
Methylene Chloride  
Concen: 0.376 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 84 Resp: 2577  
Ion Ratio Lower Upper  
84 100  
49 149.4 112.3 168.5  
51 42.1 36.0 54.0  
86 55.4 52.0 78.0

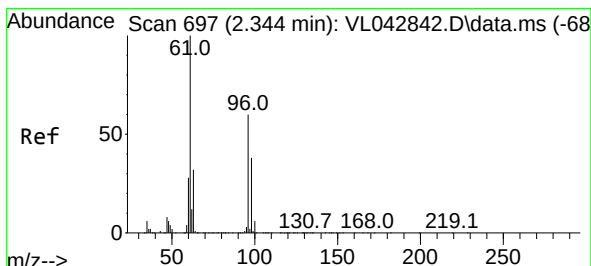
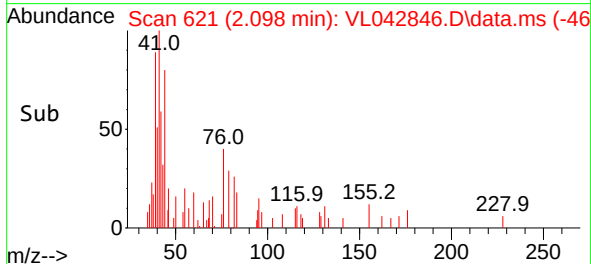
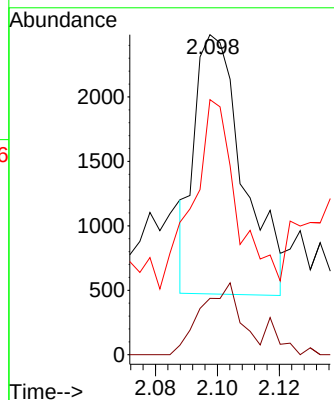
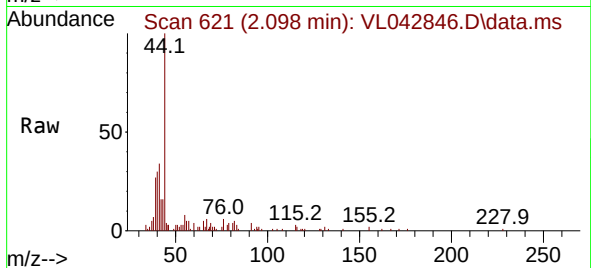




#21  
 Allyl Chloride  
 Concen: 0.190 ppbv  
 RT: 2.098 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

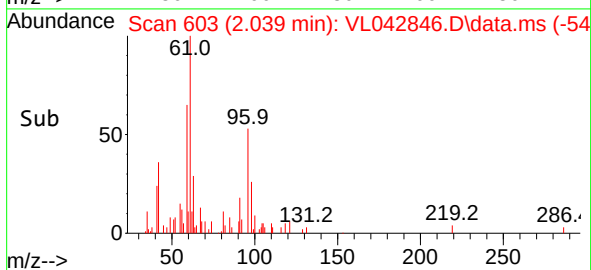
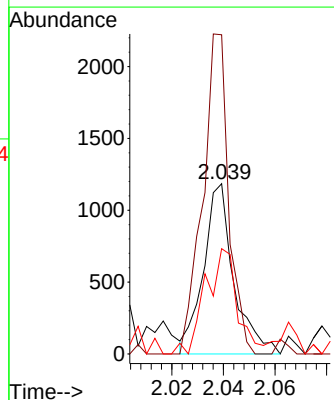
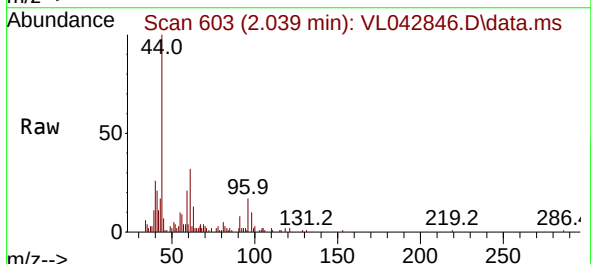
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

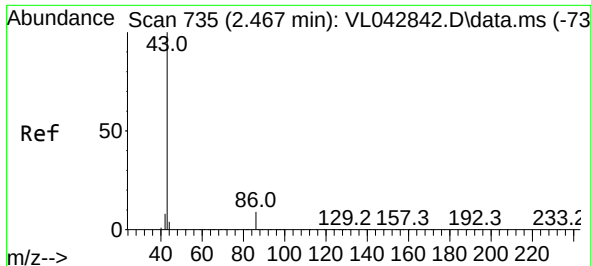
|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 41 | Resp: | 2198       |
| Ion Ratio   | Lower | Upper      |
| 41          | 100   |            |
| 76          | 27.2  | 23.9 35.9  |
| 39          | 109.1 | 57.8 86.6# |



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.138 ppbv  
 RT: 2.039 min Scan# 603  
 Delta R.T. -0.304 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 96 | Resp: | 964         |
| Ion Ratio   | Lower | Upper       |
| 96          | 100   |             |
| 61          | 187.5 | 132.6 199.0 |
| 98          | 55.6  | 50.0 75.0   |

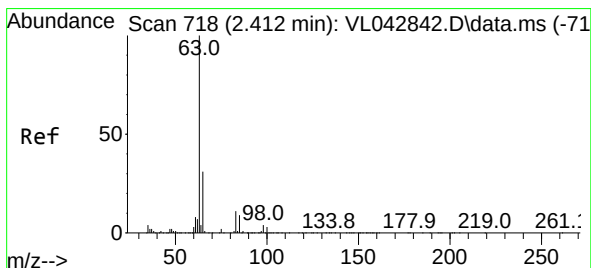
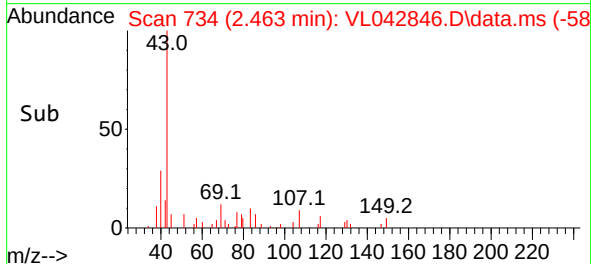
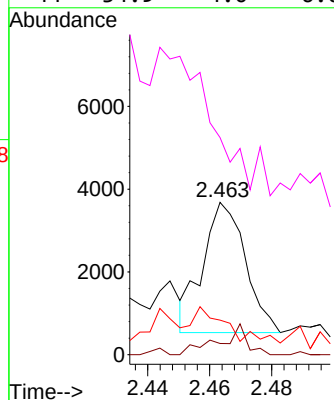
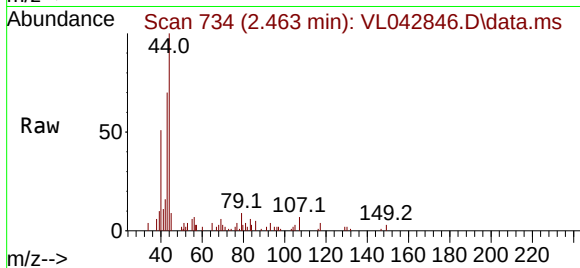




#23  
 Vinyl Acetate  
 Concen: 0.139 ppbv  
 RT: 2.463 min Scan# 719  
 Delta R.T. -0.003 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

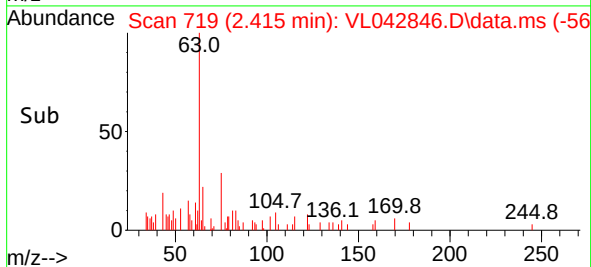
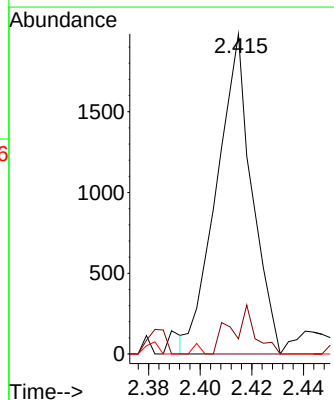
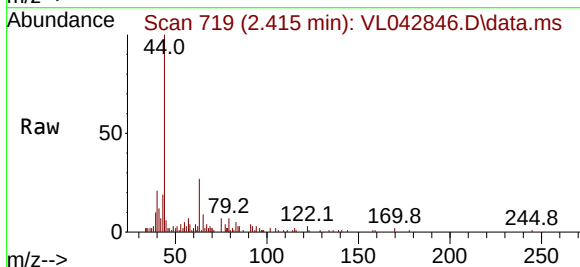
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

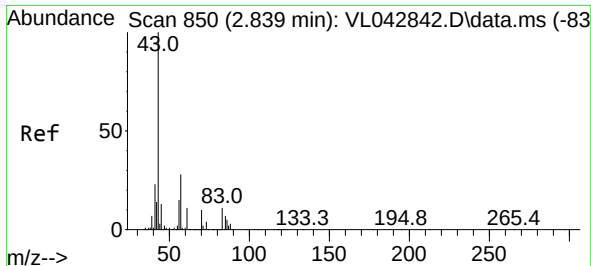
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 3002  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 86 8.6      | 6.6 9.8     |
| 42 17.6     | 7.0 10.6#   |
| 44 34.9     | 4.0 6.0#    |



#24  
 1,1-Dichloroethane  
 Concen: 0.130 ppbv  
 RT: 2.415 min Scan# 719  
 Delta R.T. 0.003 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

|             |       |       |  |
|-------------|-------|-------|--|
| Tgt Ion: 63 | Resp: | 1879  |  |
| Ion Ratio   | Lower | Upper |  |
| 63 100      |       |       |  |
| 98 4.7      | 2.1   | 6.5   |  |
| 100 0.0     | 1.7   | 5.1#  |  |

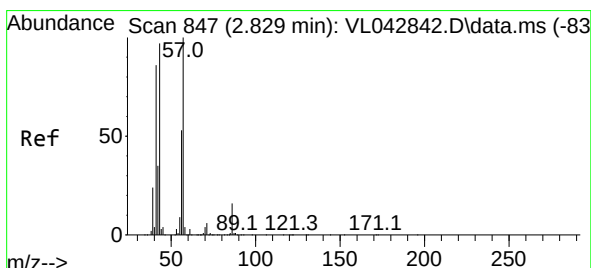
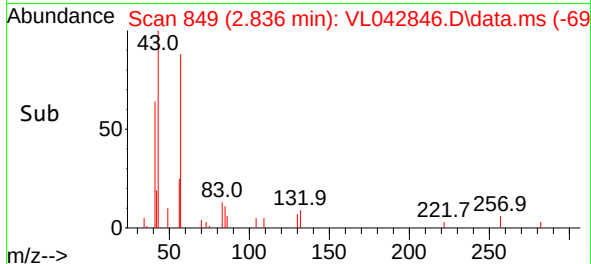
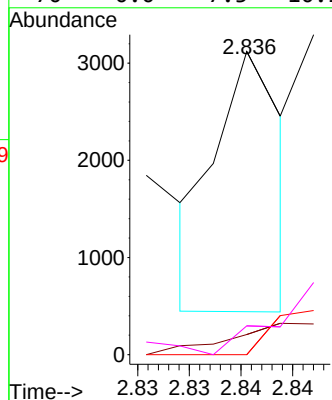
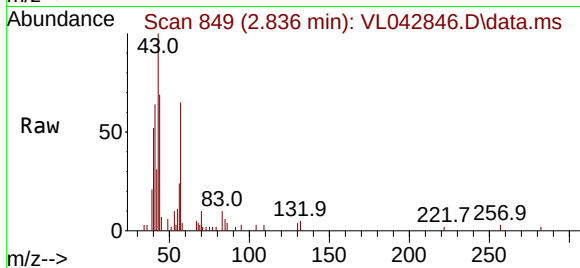




#25  
Ethyl Acetate  
Concen: 0.030 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. -0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

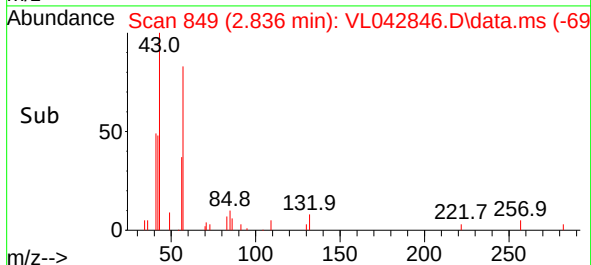
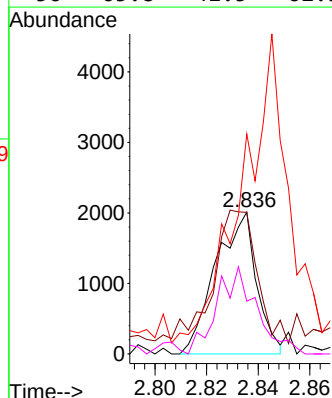
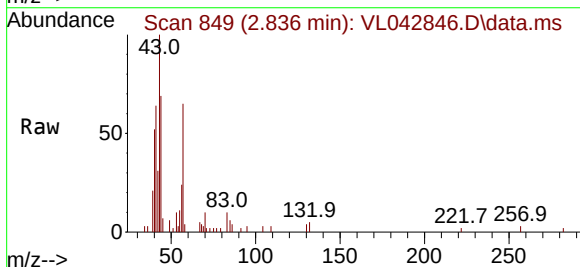
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1206  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 45       | 0.0   | 8.1   | 12.1# |
| 61       | 0.0   | 7.4   | 11.2# |
| 70       | 0.0   | 7.3   | 10.9# |

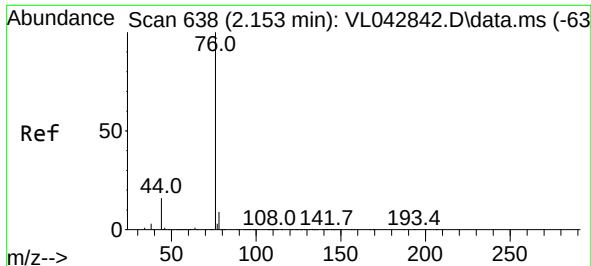


#26  
Hexane  
Concen: 0.122 ppbv  
RT: 2.836 min Scan# 849  
Delta R.T. 0.006 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 2223   |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 133.1 | 68.6  | 103.0# |
| 43       | 0.0   | 168.5 | 252.7# |
| 56       | 65.8  | 41.5  | 62.3#  |



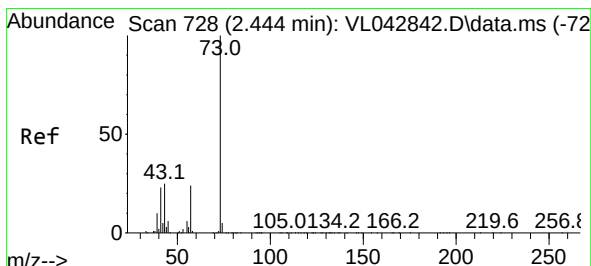
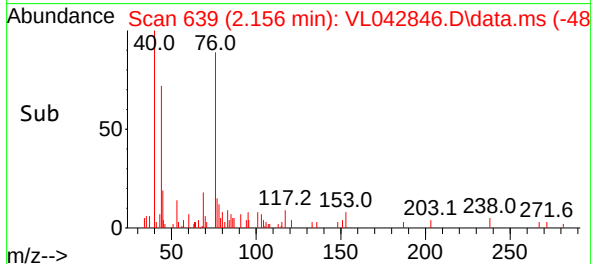
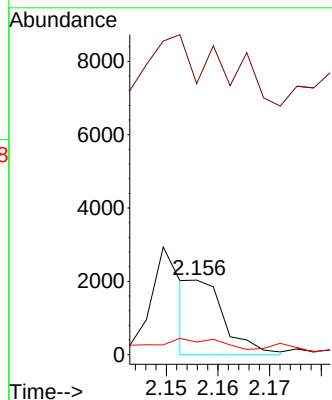
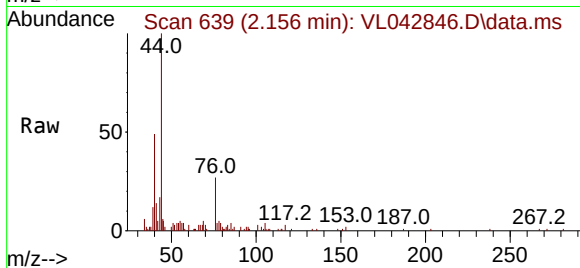




#27  
Carbon Disulfide  
Concen: 0.054 ppbv  
RT: 2.156 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

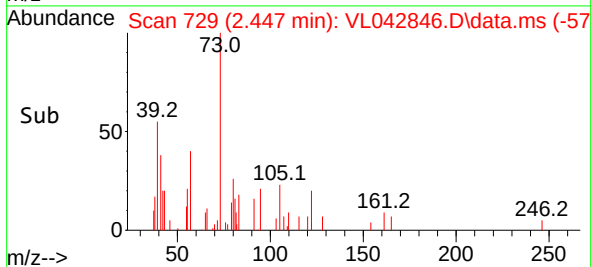
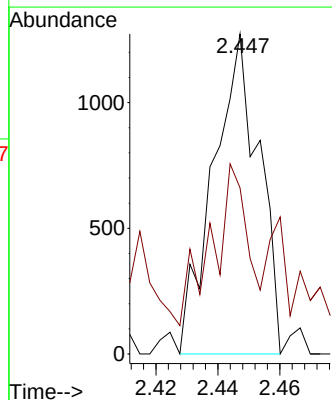
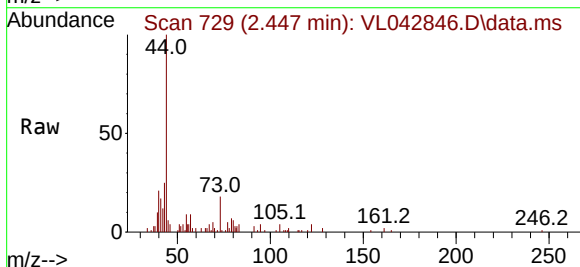
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

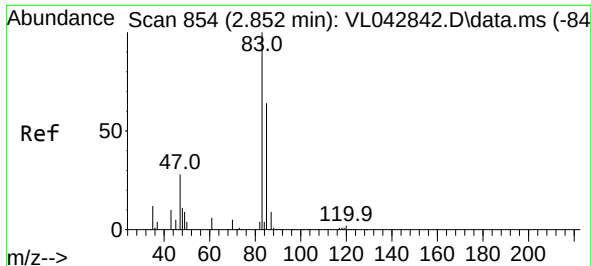
Tgt Ion: 76 Resp: 965  
Ion Ratio Lower Upper  
76 100  
44 1802.5 15.9 23.9#  
78 81.7 9.5 14.3#



#28  
Methyl tert-Butyl Ether  
Concen: 0.139 ppbv  
RT: 2.447 min Scan# 729  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 73 Resp: 1300  
Ion Ratio Lower Upper  
73 100  
57 84.2 21.6 32.4#





#29

Chloroform

Concen: 0.113 ppbv

RT: 2.855 min Scan# 81

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

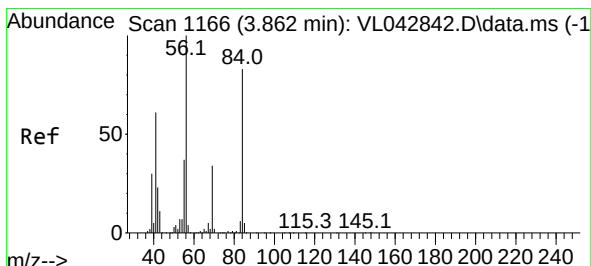
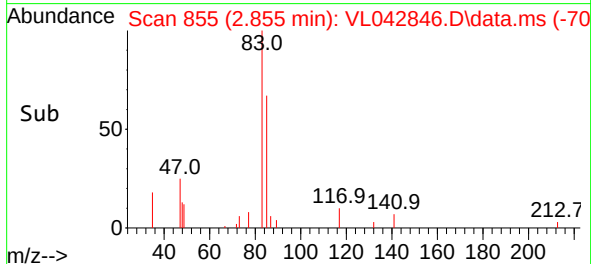
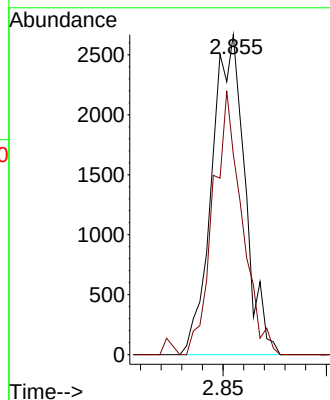
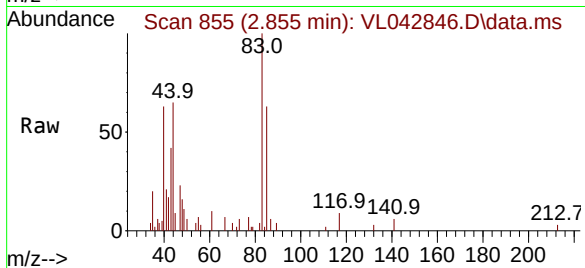
VSTDIC0.1

Tgt Ion: 83 Resp: 2962

Ion Ratio Lower Upper

83 100

85 62.6 51.1 76.7



#30

Cyclohexane

Concen: 0.052 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

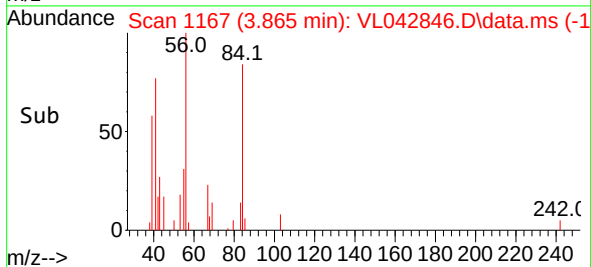
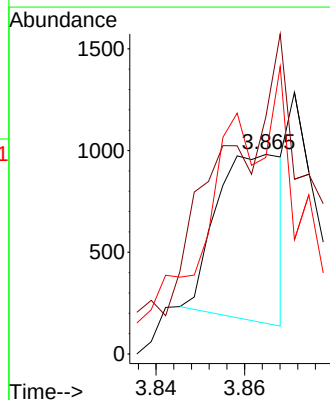
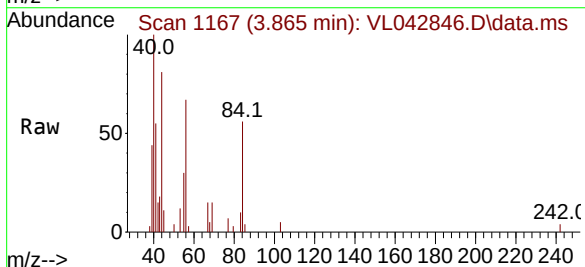
Tgt Ion: 84 Resp: 835

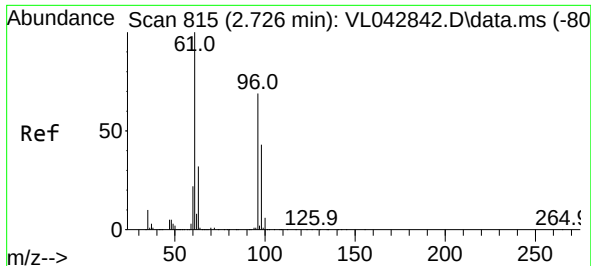
Ion Ratio Lower Upper

84 100

56 0.0 98.8 148.2#

41 0.0 61.3 91.9#

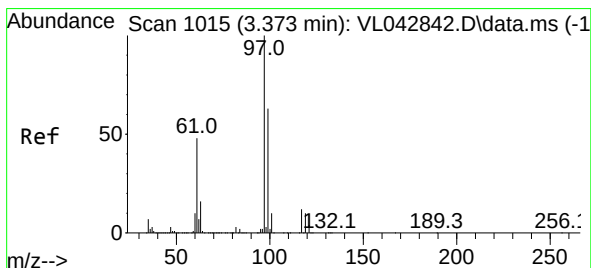
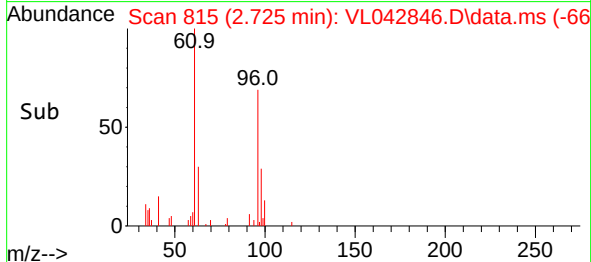
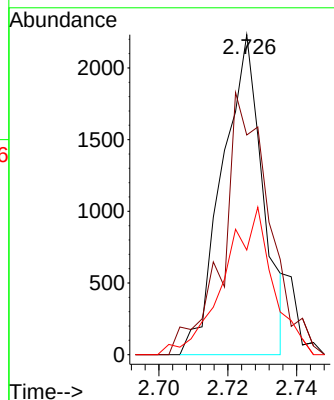
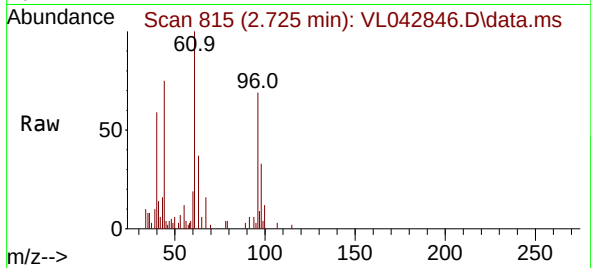




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.101 ppbv  
 RT: 2.725 min Scan# 815  
 Delta R.T. -0.000 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

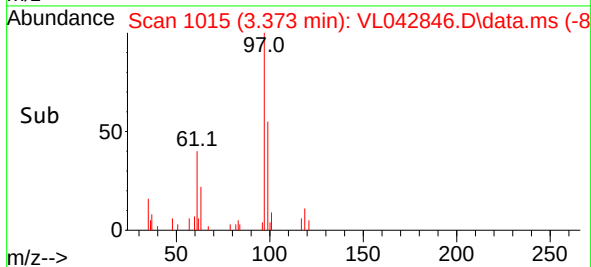
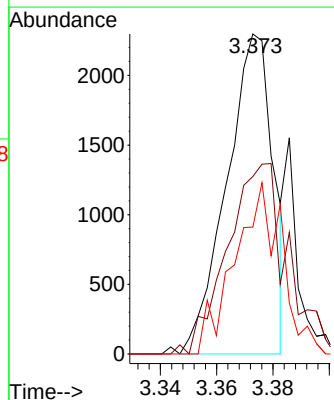
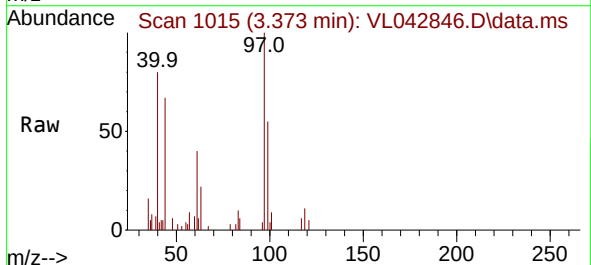
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

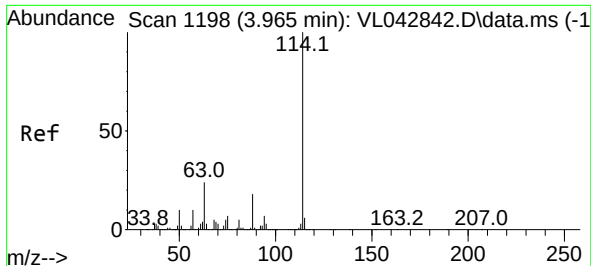
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 61    | Resp: | 1839  |
| Ion      | Ratio | Lower | Upper |
| 61       | 100   |       |       |
| 96       | 60.0  | 55.0  | 82.6  |
| 98       | 30.3  | 34.3  | 51.5  |



#32  
 1,1,1-Trichloroethane  
 Concen: 0.095 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. -0.000 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 97    | Resp: | 2627  |
| Ion      | Ratio | Lower | Upper |
| 97       | 100   |       |       |
| 99       | 76.4  | 51.0  | 76.6  |
| 61       | 54.3  | 38.0  | 57.0  |

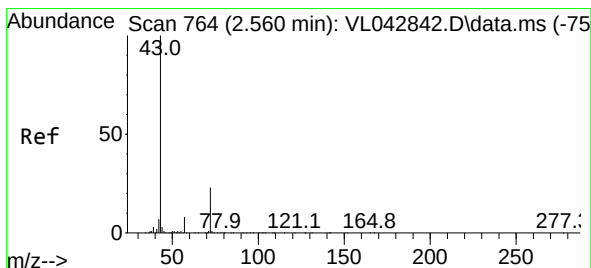
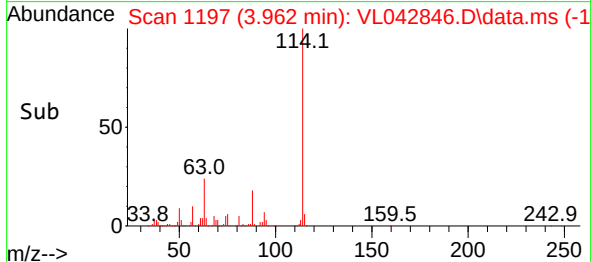
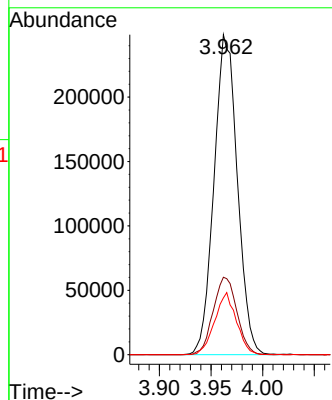
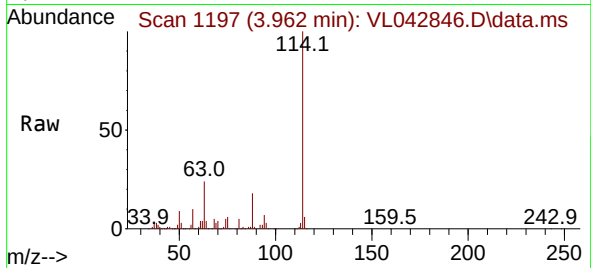




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.962 min Scan# 1197  
Delta R.T. -0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

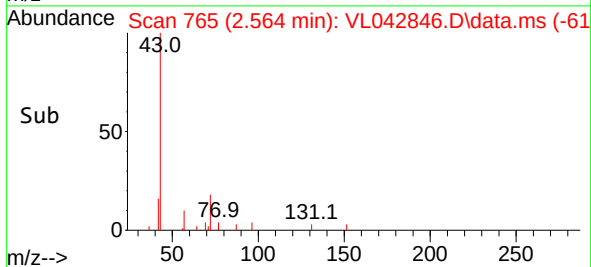
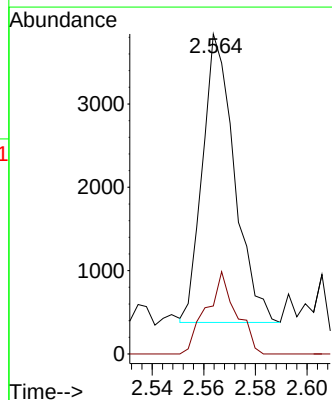
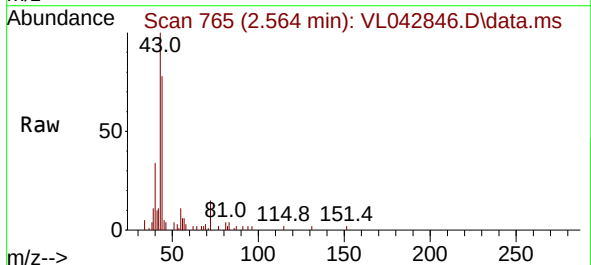
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

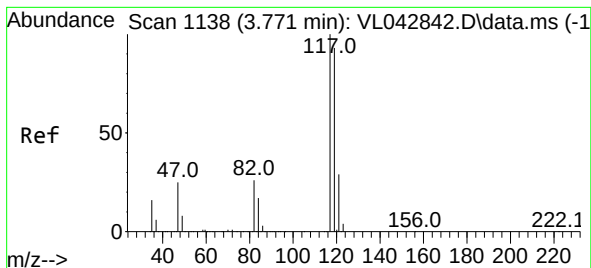
Tgt Ion:114 Resp: 390520  
Ion Ratio Lower Upper  
114 100  
63 24.6 19.7 29.5  
88 18.1 14.4 21.6



#34  
2-Butanone  
Concen: 0.113 ppbv  
RT: 2.564 min Scan# 765  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 2970  
Ion Ratio Lower Upper  
43 100  
72 26.7 18.6 28.0





#35

Carbon Tetrachloride

Concen: 0.107 ppbv

RT: 3.774 min Scan# 1138

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

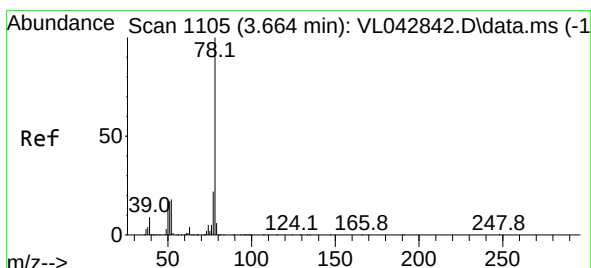
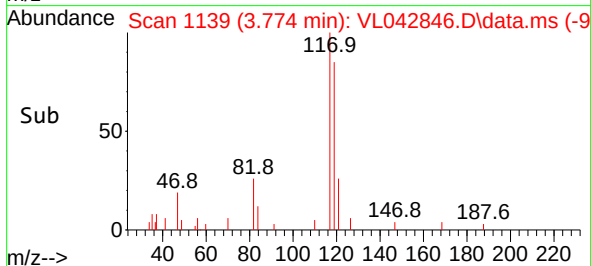
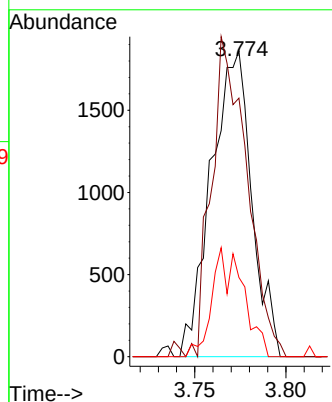
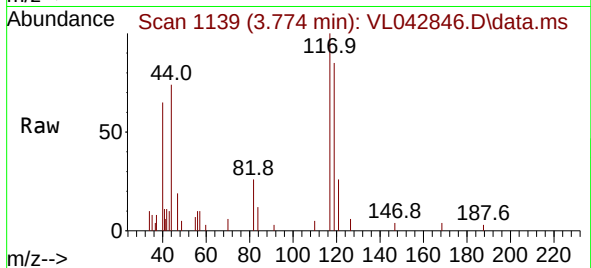
Tgt Ion:117 Resp: 2883

Ion Ratio Lower Upper

117 100

119 81.8 74.7 112.1

121 25.9 23.2 34.8



#36

Benzene

Concen: 0.065 ppbv

RT: 3.661 min Scan# 1104

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

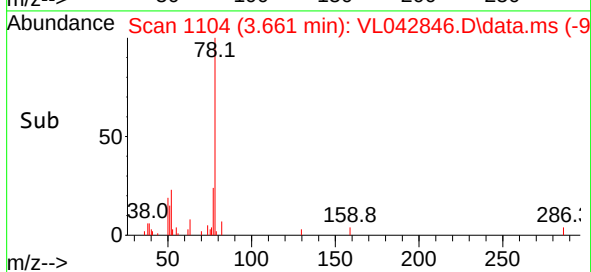
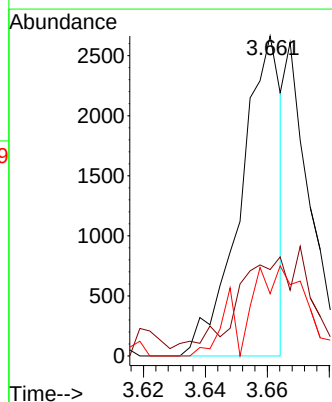
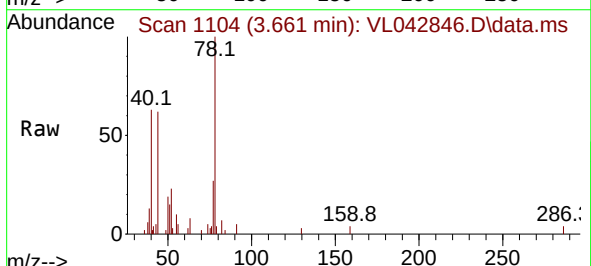
Tgt Ion: 78 Resp: 2430

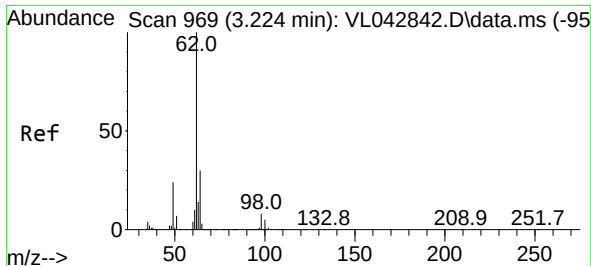
Ion Ratio Lower Upper

78 100

77 23.1 17.7 26.5

50 19.4 13.9 20.9





#37

1,2-Dichloroethane

Concen: 0.029 ppbv

RT: 3.230 min Scan# 91

Delta R.T. 0.006 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

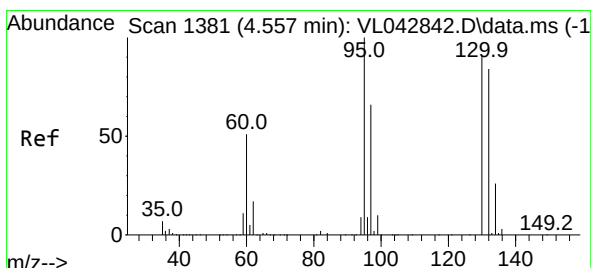
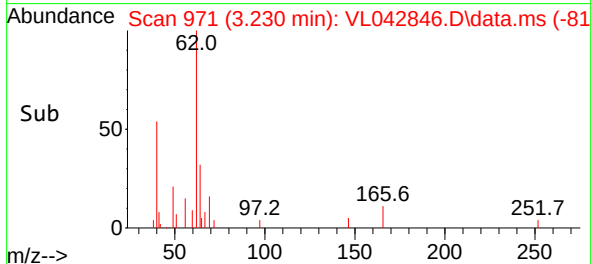
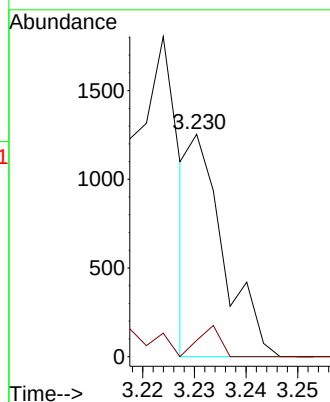
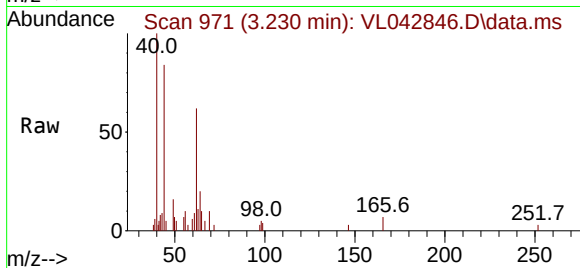
VSTDIC0.1

Tgt Ion: 62 Resp: 576

Ion Ratio Lower Upper

62 100

98 25.9 5.9 8.9#



#38

Trichloroethene

Concen: 0.037 ppbv

RT: 4.557 min Scan# 1381

Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Tgt Ion: 130 Resp: 624

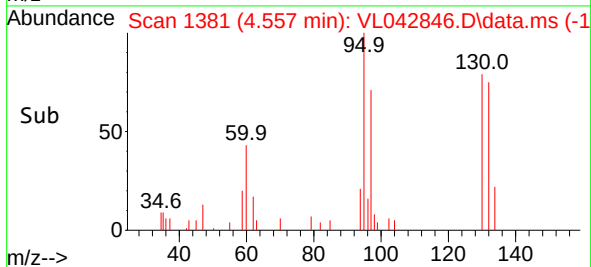
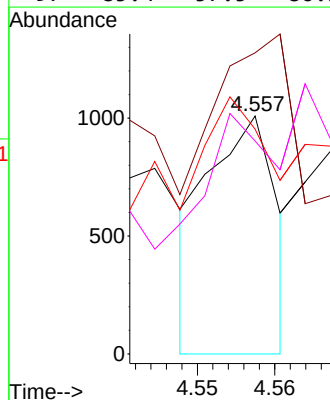
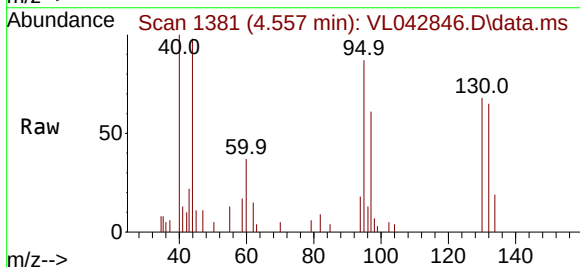
Ion Ratio Lower Upper

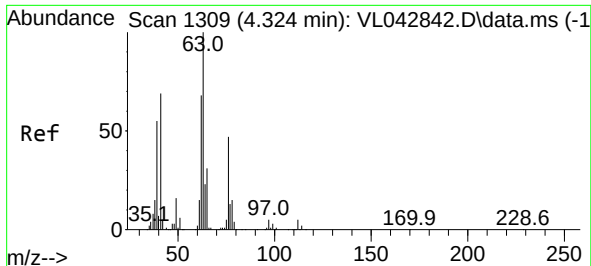
130 100

95 145.9 87.6 131.4#

132 83.5 73.8 110.8

97 85.4 57.5 86.3





#39

1,2-Dichloropropane

Concen: 7.036 ppbv

RT: 3.962 min Scan# 1197

Delta R.T. -0.363 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

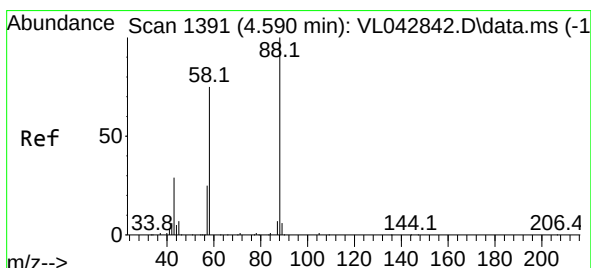
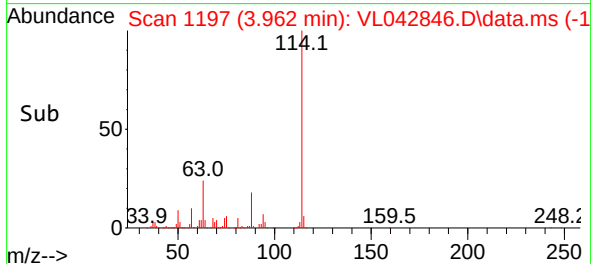
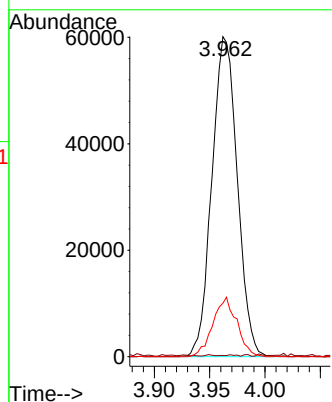
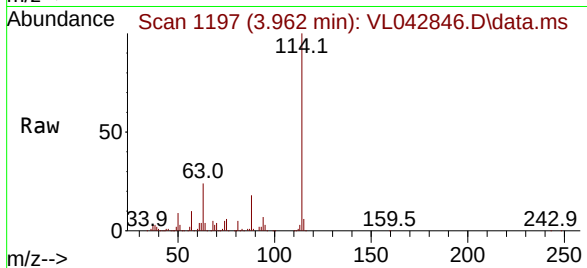
Tgt Ion: 63 Resp: 96098

Ion Ratio Lower Upper

63 100

41 0.0 55.0 82.4#

62 16.7 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.108 ppbv

RT: 4.625 min Scan# 1402

Delta R.T. 0.036 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Tgt Ion: 88 Resp: 693

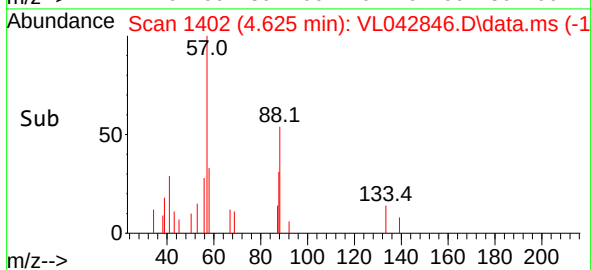
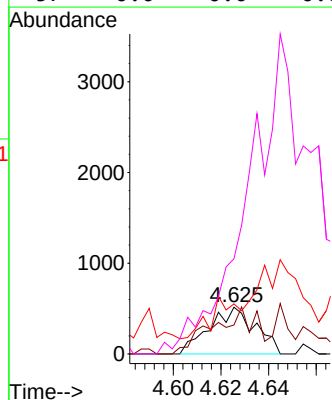
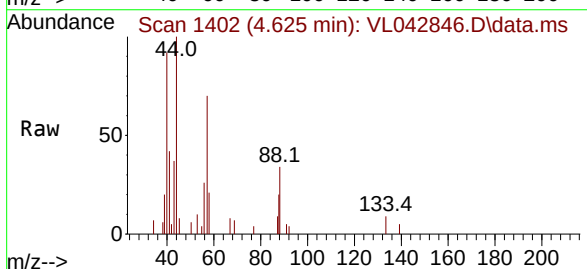
Ion Ratio Lower Upper

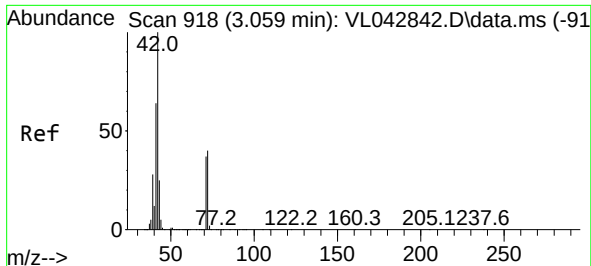
88 100

58 0.0 53.8 80.6#

43 71.0 22.8 34.2#

57 0.0 0.0 0.0

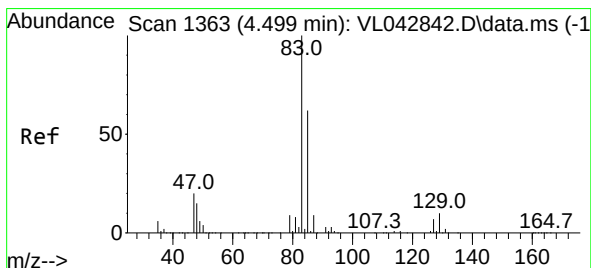
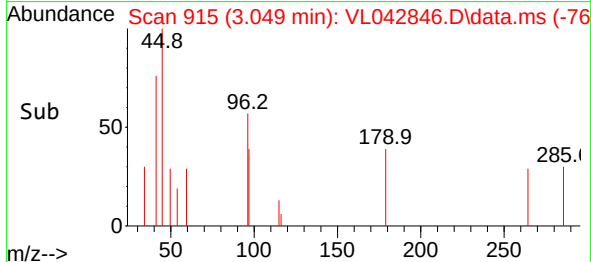
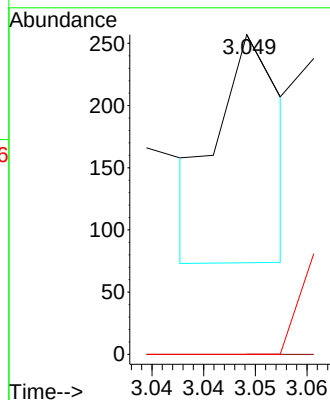
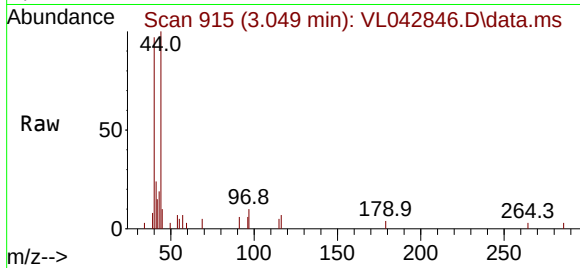




#41  
Tetrahydrofuran  
Concen: 0.005 ppbv  
RT: 3.049 min Scan# 918  
Delta R.T. -0.010 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

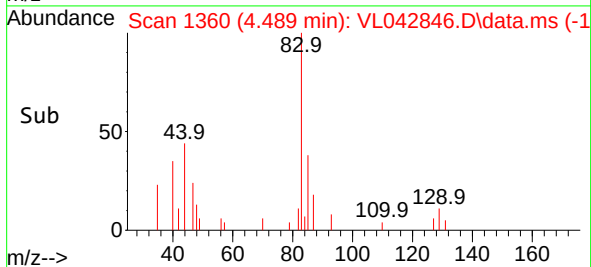
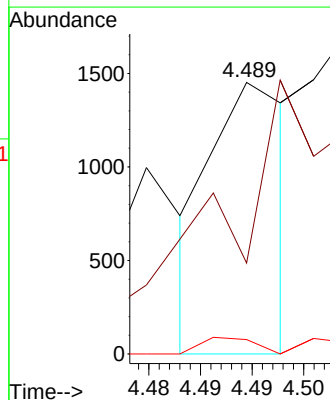
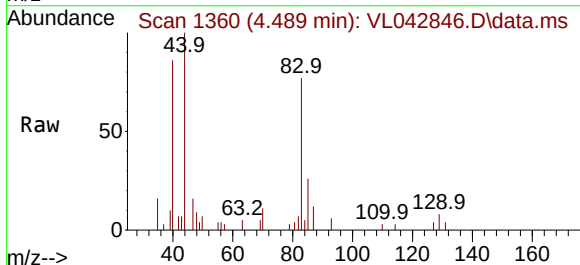
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.1

Tgt Ion: 42 Resp: 78  
Ion Ratio Lower Upper  
42 100  
72 0.0 32.6 48.8#  
71 0.0 30.0 45.0#

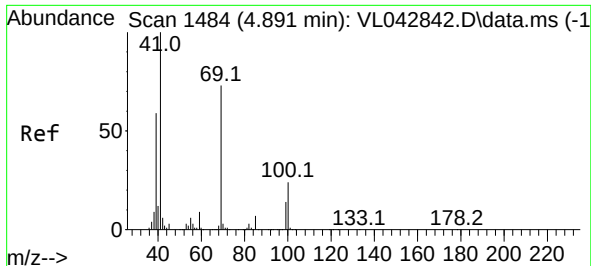


#42  
Bromodichloromethane  
Concen: 0.026 ppbv  
RT: 4.489 min Scan# 1360  
Delta R.T. -0.010 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 83 Resp: 756  
Ion Ratio Lower Upper  
83 100  
85 0.0 49.8 74.8#  
127 10.8 5.8 8.6#







#43

Methyl Methacrylate

Concen: 0.084 ppbv

RT: 4.894 min Scan# 1485

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.1

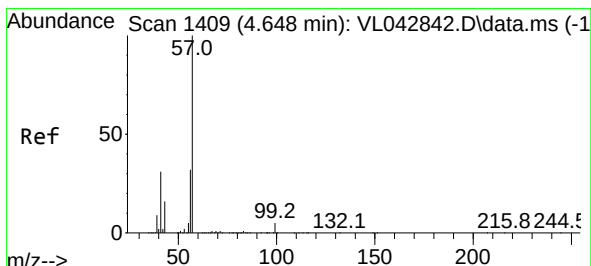
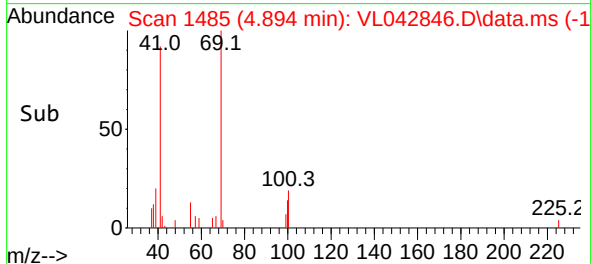
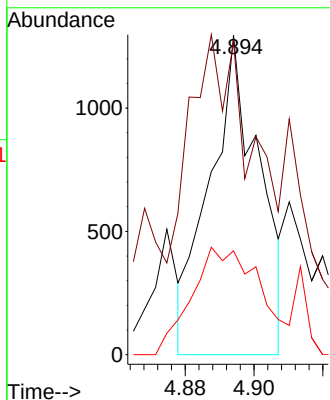
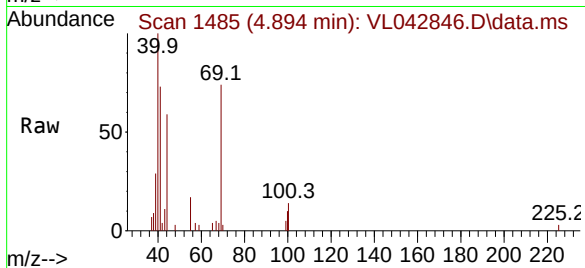
Tgt Ion: 69 Resp: 1289

Ion Ratio Lower Upper

69 100

41 194.8 114.6 172.0#

100 55.2 30.2 45.4#



#44

2,2,4-Trimethylpentane

Concen: 0.035 ppbv

RT: 4.645 min Scan# 1408

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

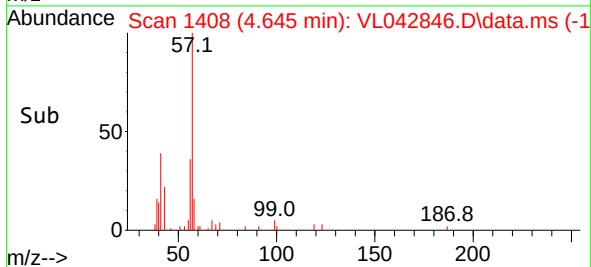
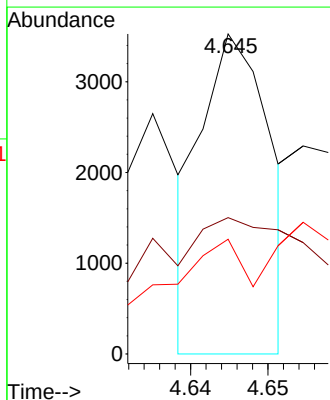
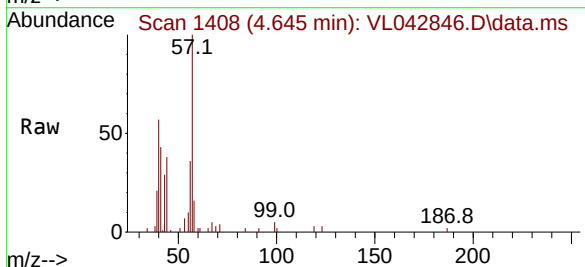
Tgt Ion: 57 Resp: 2178

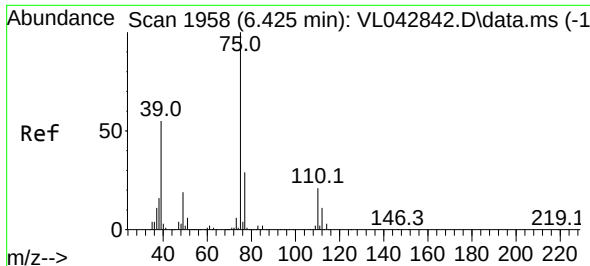
Ion Ratio Lower Upper

57 100

41 145.1 24.8 37.2#

56 0.0 25.5 38.3#





#45

t-1,3-Dichloropropene

Concen: 0.028 ppbv

RT: 6.415 min Scan# 1955

Delta R.T. -0.010 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

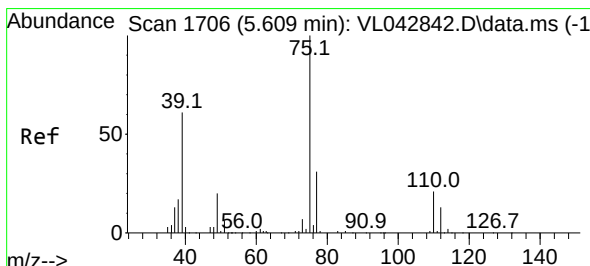
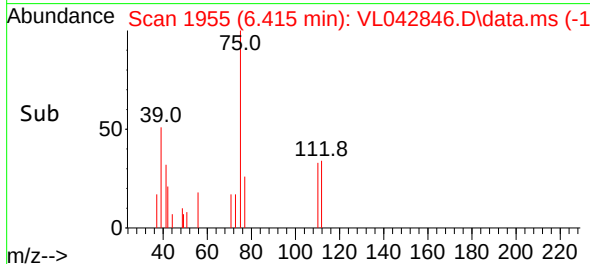
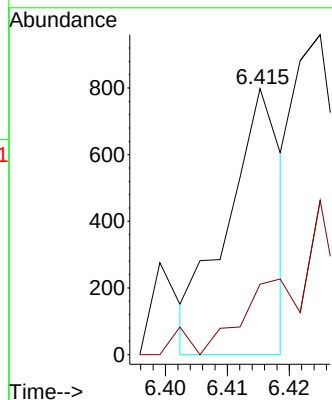
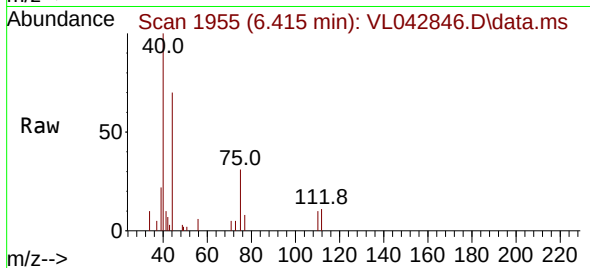
VSTDIC0.1

Tgt Ion: 75 Resp: 486

Ion Ratio Lower Upper

75 100

77 26.4 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 0.067 ppbv

RT: 5.609 min Scan# 1706

Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

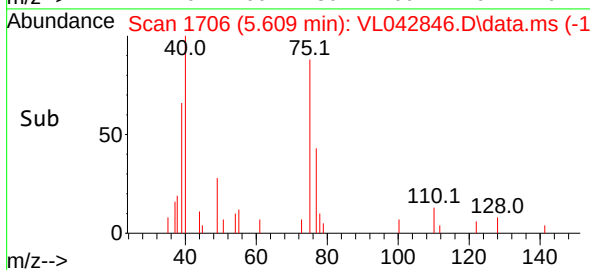
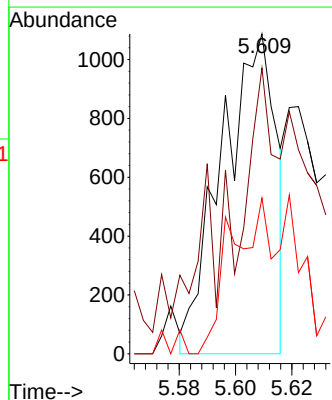
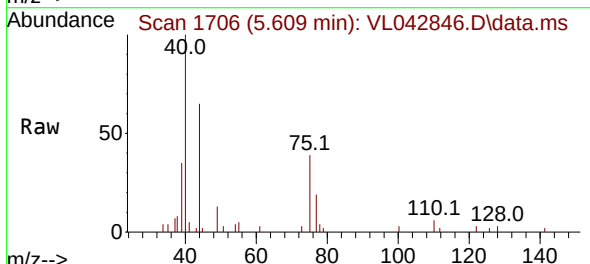
Tgt Ion: 75 Resp: 1454

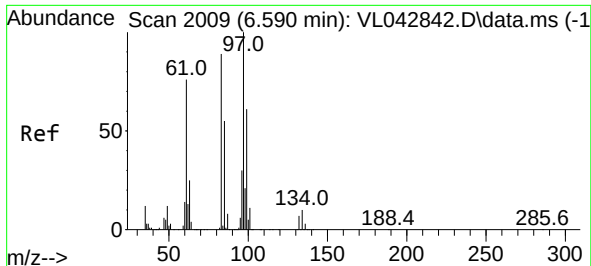
Ion Ratio Lower Upper

75 100

39 69.2 48.9 73.3

77 44.1 24.9 37.3#





#47

1,1,2-Trichloroethane

Concen: 0.018 ppbv

RT: 6.580 min Scan# 2009

Delta R.T. -0.010 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

Tgt Ion: 97 Resp: 260

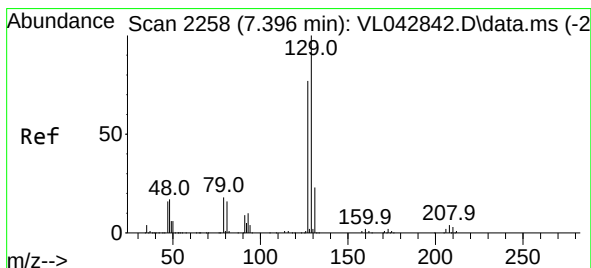
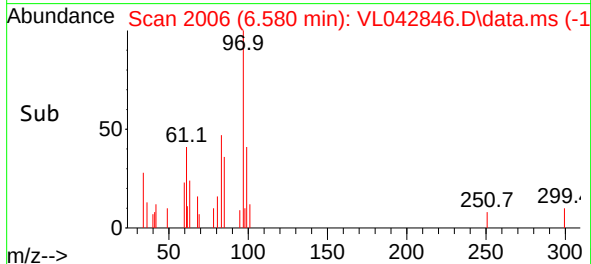
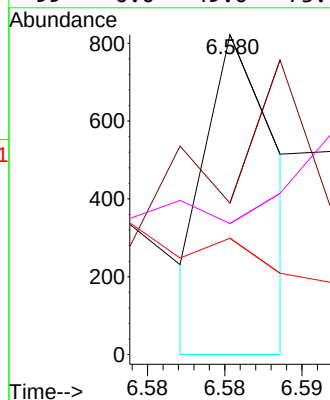
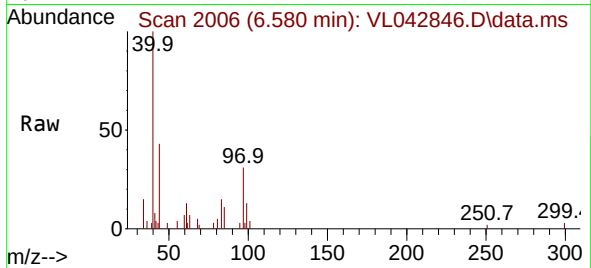
Ion Ratio Lower Upper

97 100

83 0.0 71.0 106.4#

85 15.2 43.6 65.4#

99 0.0 49.0 73.4#



#48

Dibromochloromethane

Concen: 0.088 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042846.D

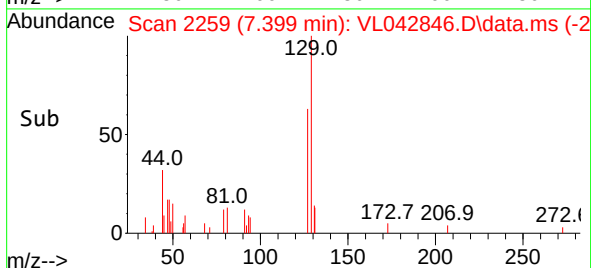
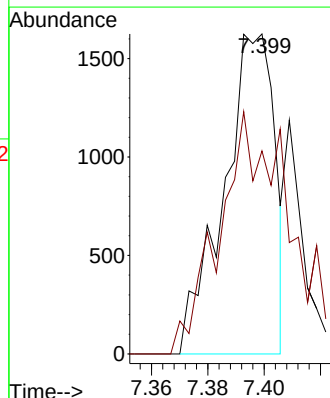
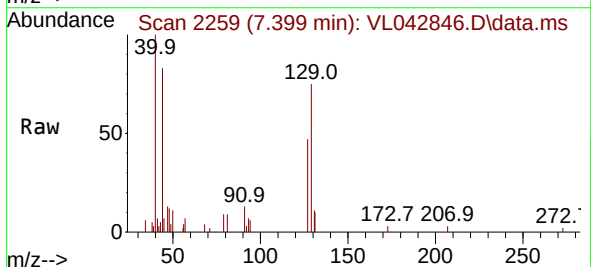
Acq: 13 Aug 2025 10:53

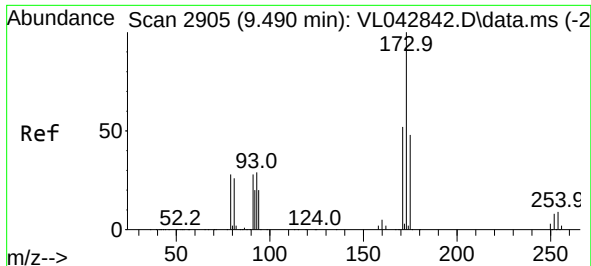
Tgt Ion: 129 Resp: 2052

Ion Ratio Lower Upper

129 100

127 101.4 39.4 118.2

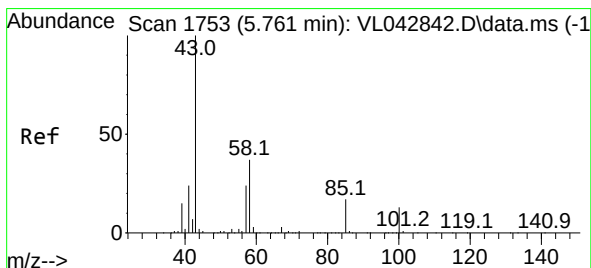
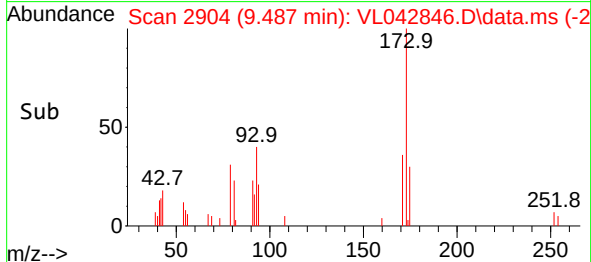
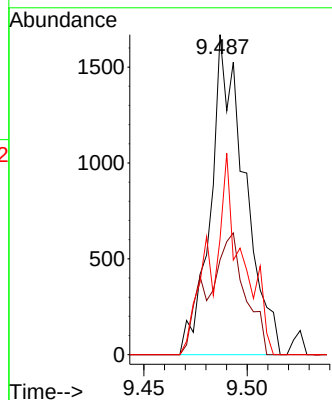
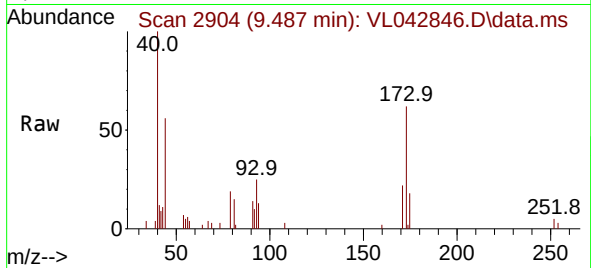




#49  
Bromoform  
Concen: 0.099 ppbv  
RT: 9.487 min Scan# 2905  
Delta R.T. -0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

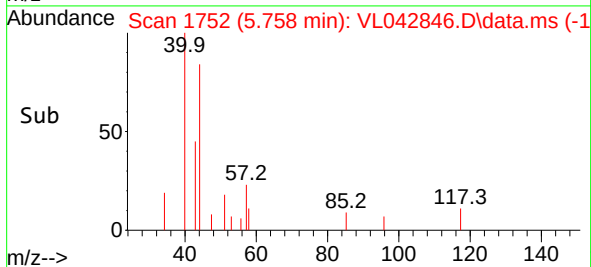
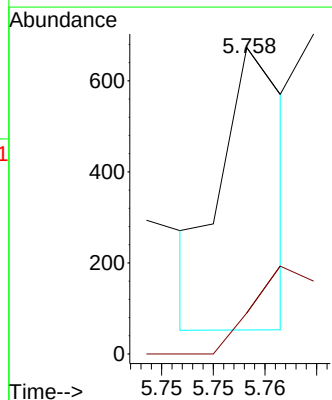
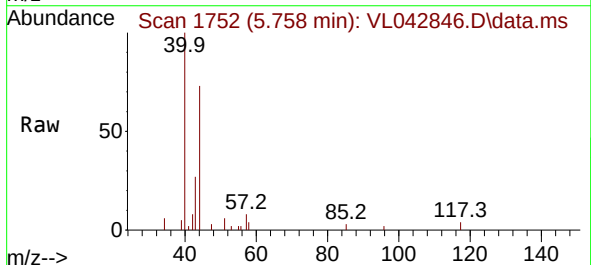
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

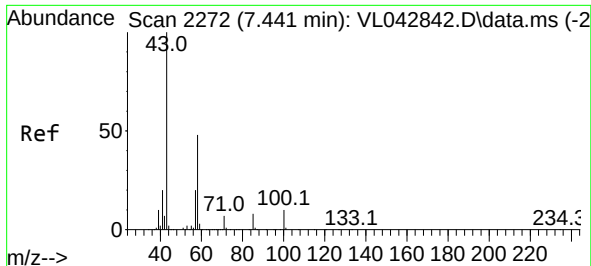
Tgt Ion:173 Resp: 1909  
Ion Ratio Lower Upper  
173 100  
175 42.4 39.2 58.8  
171 57.5 41.3 61.9



#50  
4-Methyl-2-Pentanone  
Concen: 0.007 ppbv  
RT: 5.758 min Scan# 1752  
Delta R.T. -0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 43 Resp: 266  
Ion Ratio Lower Upper  
43 100  
58 0.0 29.8 44.8#

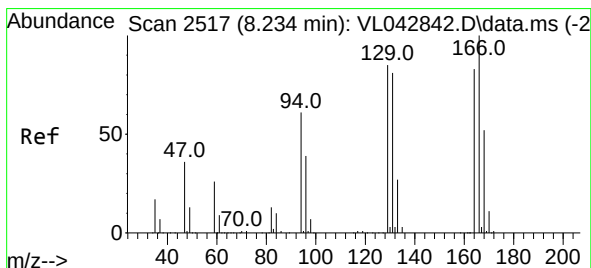
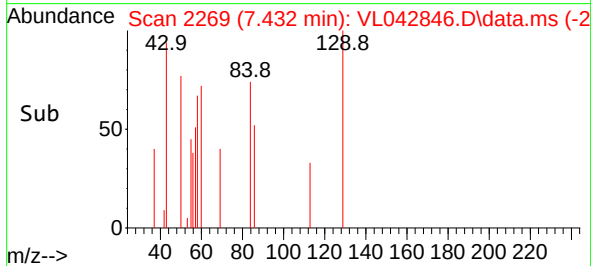
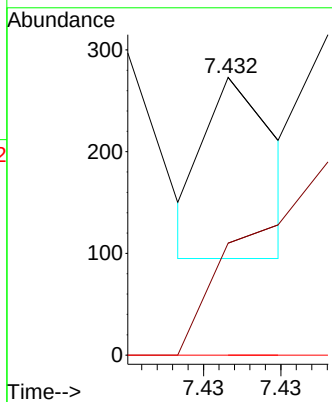
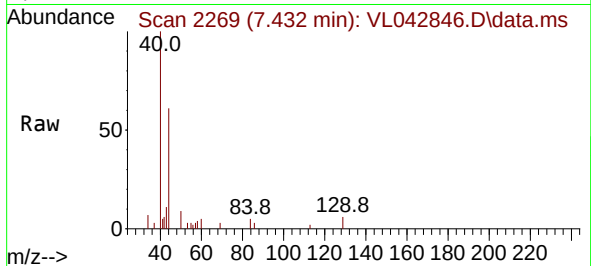




#51  
2-Hexanone  
Concen: 0.002 ppbv  
RT: 7.432 min Scan# 21  
Delta R.T. -0.010 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

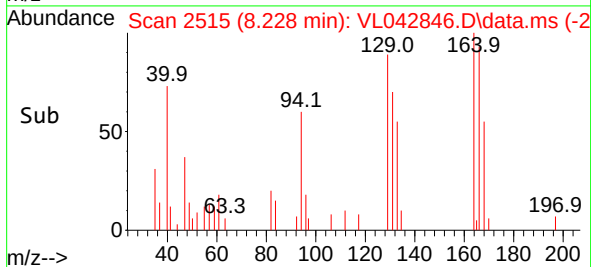
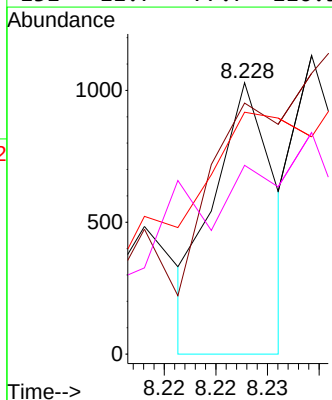
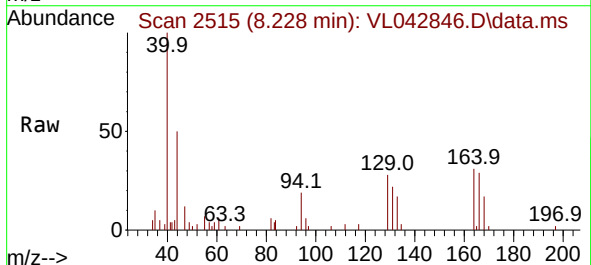
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

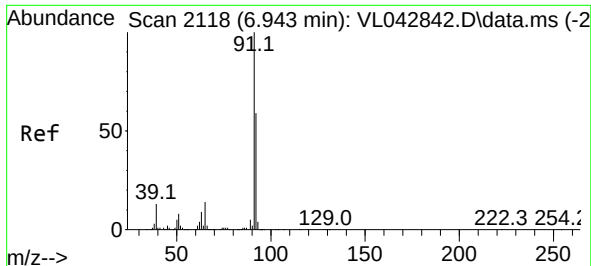
|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 57       |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 58          | 0.0 41.0 61.6# |
| 98          | 0.0 0.1 0.1#   |



#52  
Tetrachloroethene  
Concen: 0.031 ppbv  
RT: 8.228 min Scan# 2515  
Delta R.T. -0.007 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

|              |                  |
|--------------|------------------|
| Tgt Ion: 164 | Resp: 425        |
| Ion Ratio    | Lower Upper      |
| 164          | 100              |
| 166          | 104.7 96.5 144.7 |
| 129          | 62.6 81.8 122.6# |
| 131          | 11.7 77.7 116.5# |

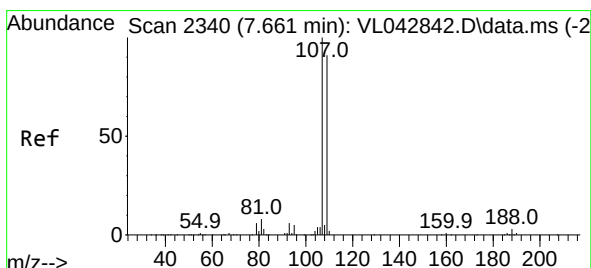
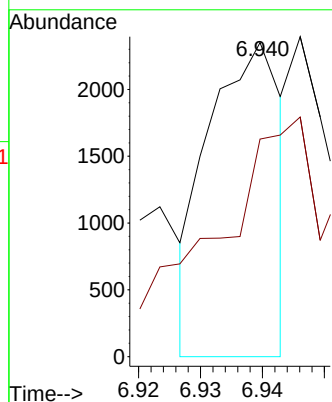
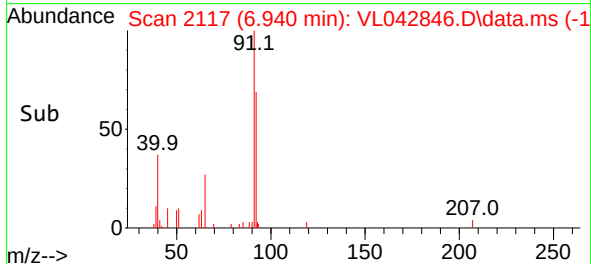
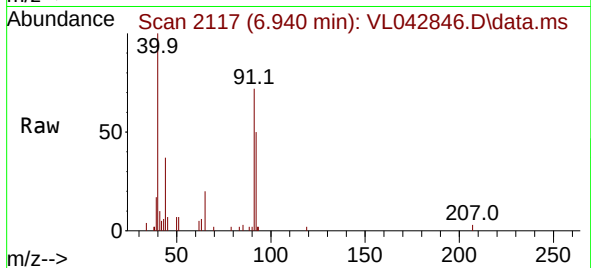




#53  
Toluene  
Concen: 0.043 ppbv  
RT: 6.940 min Scan# 2118  
Delta R.T. -0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

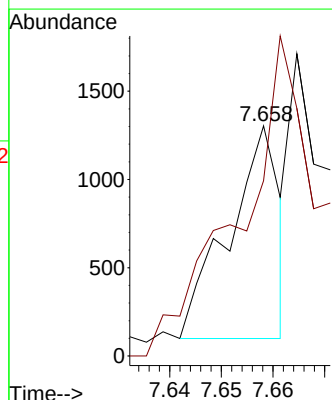
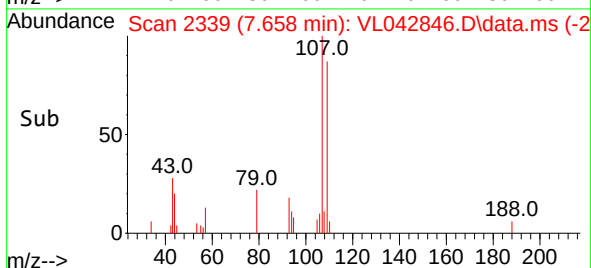
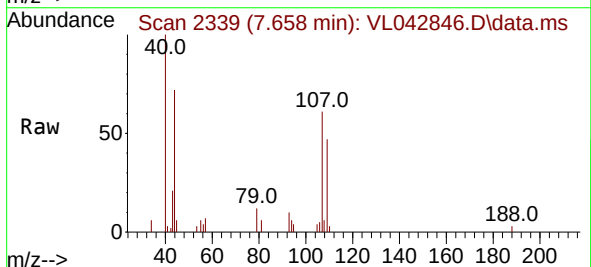
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

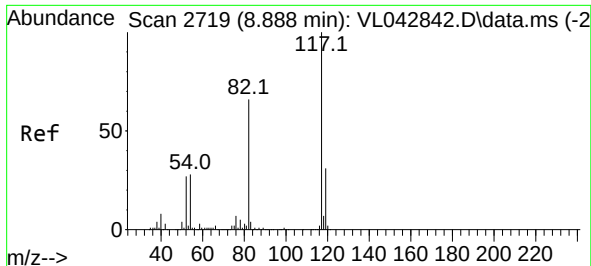
Tgt Ion: 91 Resp: 1918  
Ion Ratio Lower Upper  
91 100  
92 0.0 47.8 71.6#



#54  
1,2-Dibromoethane  
Concen: 0.039 ppbv  
RT: 7.658 min Scan# 2339  
Delta R.T. -0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 107 Resp: 828  
Ion Ratio Lower Upper  
107 100  
109 63.7 72.5 108.7#

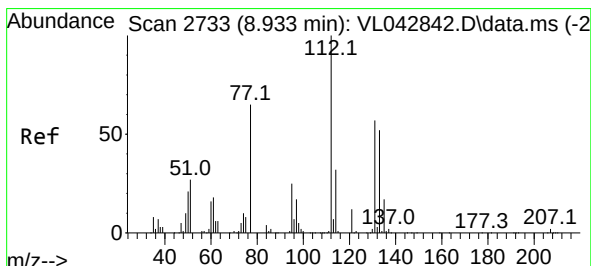
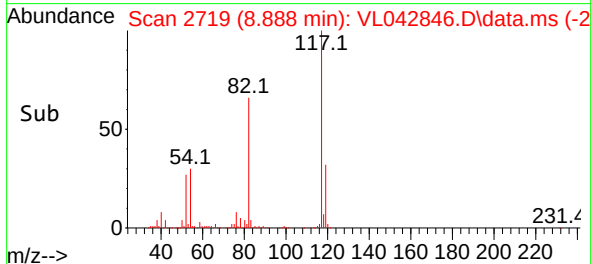
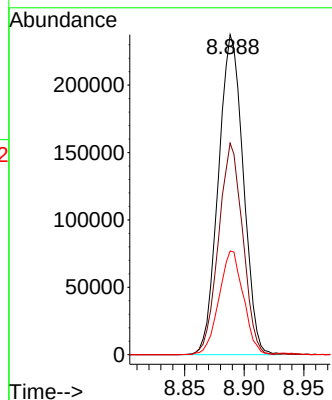
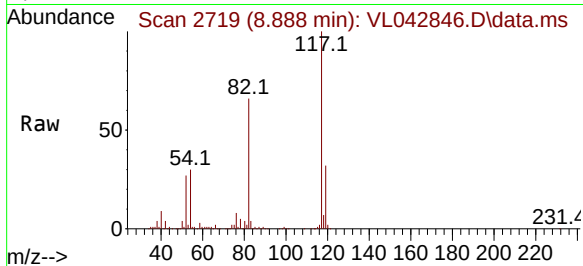




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.888 min Scan# 2719  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

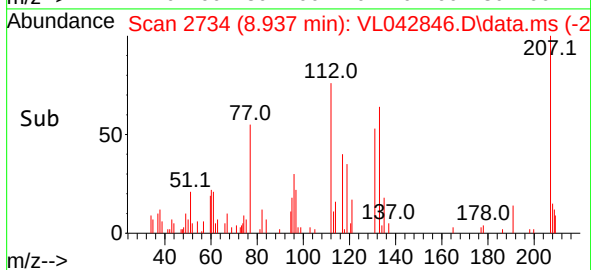
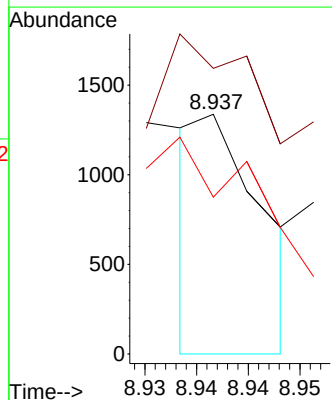
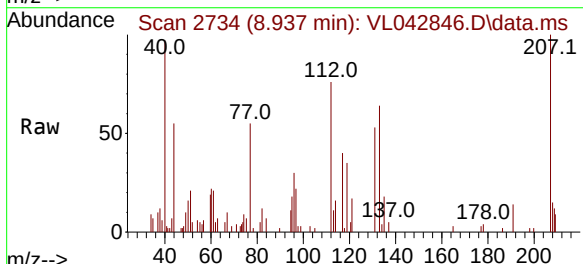
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

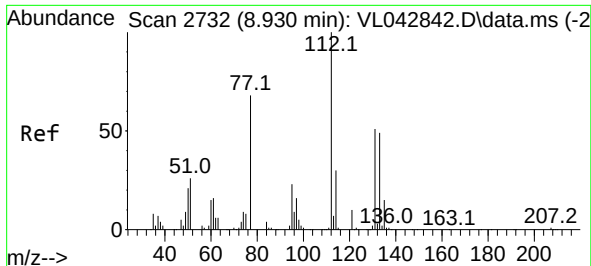
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 345073 |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 82       | 64.3  | 54.6  | 81.8   |
| 119      | 32.2  | 25.9  | 38.9   |



#56  
1,1,1,2-Tetrachloroethane  
Concen: 0.032 ppbv  
RT: 8.937 min Scan# 2734  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 131   | Resp: | 573    |
| Ion      | Ratio | Lower | Upper  |
| 131      | 100   |       |        |
| 133      | 500.2 | 77.4  | 116.0# |
| 119      | 0.0   | 51.2  | 76.8#  |





#57

Chlorobenzene

Concen: 0.120 ppbv

RT: 8.933 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

VSTDICC0.1

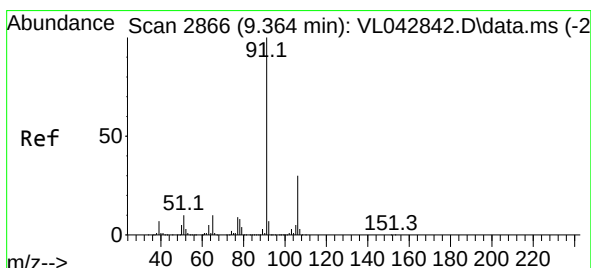
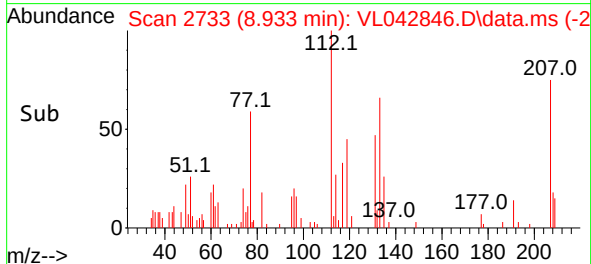
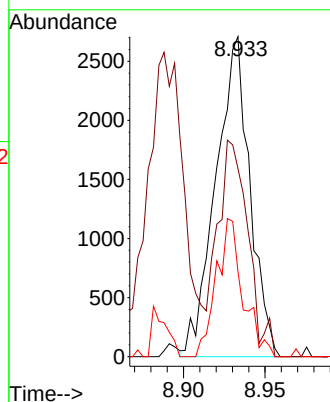
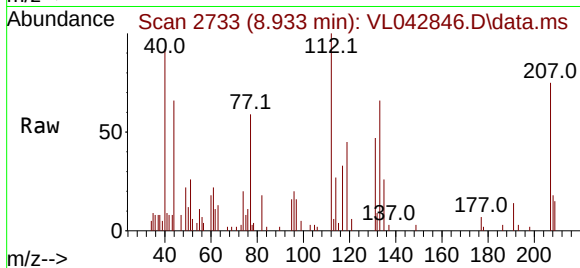
Tgt Ion:112 Resp: 3936

Ion Ratio Lower Upper

112 100

77 62.3 55.5 83.3

114 26.7 27.2 33.2#



#58

Ethyl Benzene

Concen: 0.105 ppbv

RT: 9.361 min Scan# 2865

Delta R.T. -0.003 min

Lab File: VL042846.D

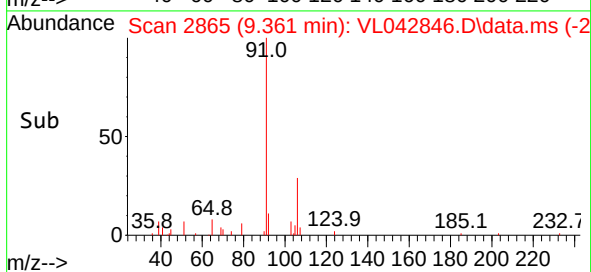
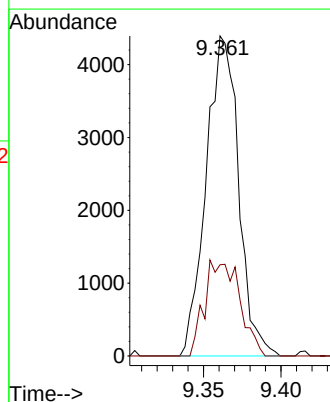
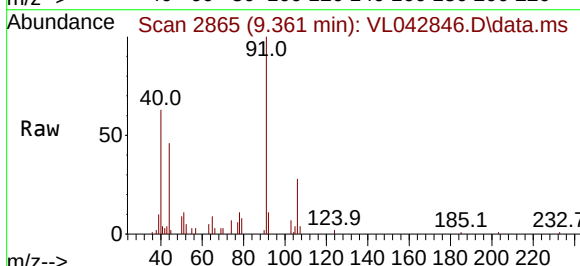
Acq: 13 Aug 2025 10:53

Tgt Ion: 91 Resp: 6413

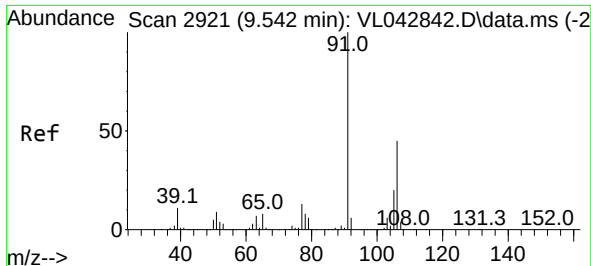
Ion Ratio Lower Upper

91 100

106 28.5 23.9 35.9







#59

m/p-Xylene

Concen: 0.091 ppbv

RT: 9.539 min Scan# 2921

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

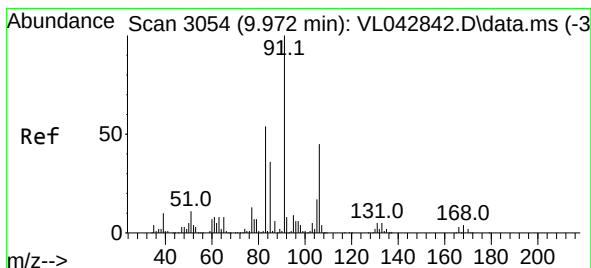
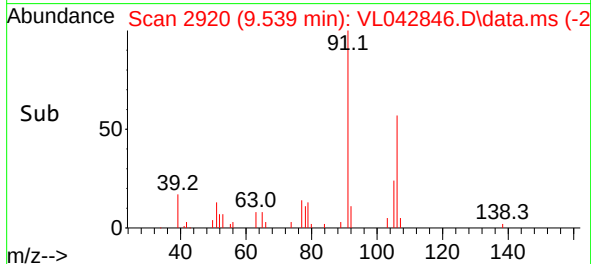
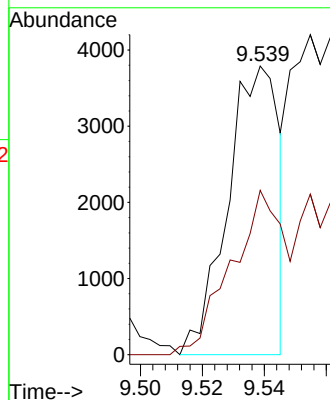
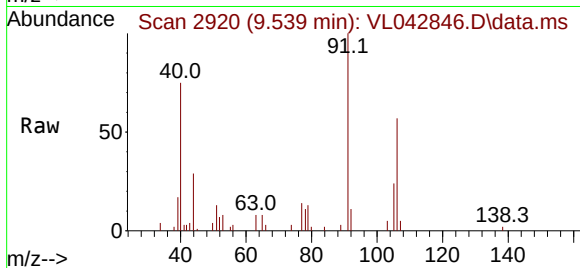
VSTDIC0.1

Tgt Ion: 91 Resp: 4356

Ion Ratio Lower Upper

91 100

106 114.3 0.0 0.0#



#60

o-Xylene

Concen: 0.106 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. -0.000 min

Lab File: VL042846.D

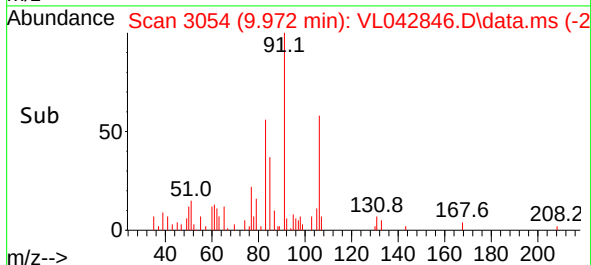
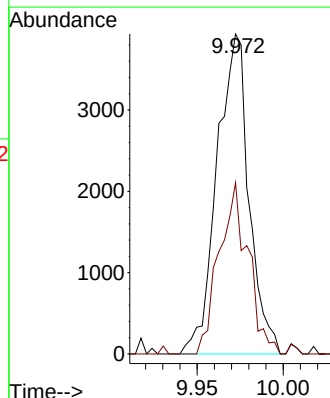
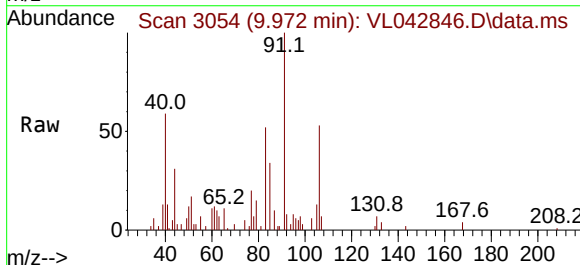
Acq: 13 Aug 2025 10:53

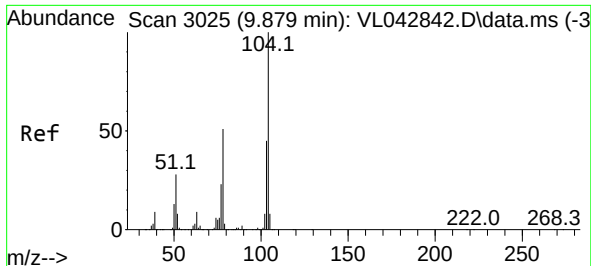
Tgt Ion: 91 Resp: 5090

Ion Ratio Lower Upper

91 100

106 49.7 21.8 65.4





#61

Styrene

Concen: 0.103 ppbv

RT: 9.882 min Scan# 3026

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

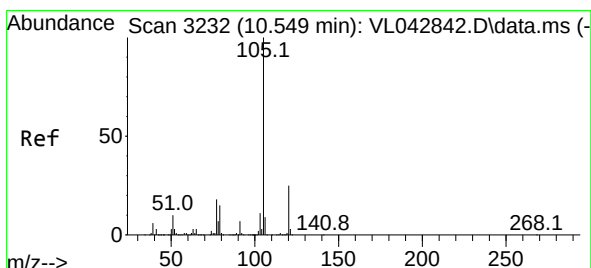
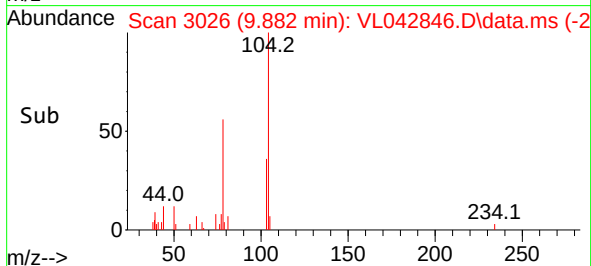
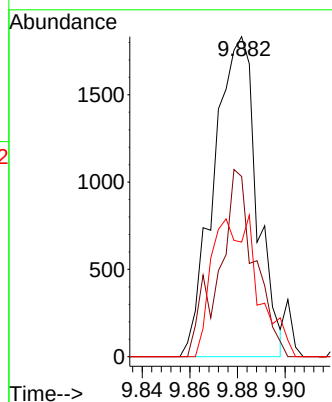
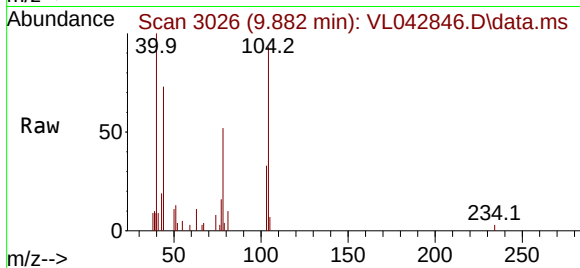
Tgt Ion:104 Resp: 2306

Ion Ratio Lower Upper

104 100

78 48.8 40.6 61.0

103 46.2 37.7 56.5



#62

Isopropylbenzene

Concen: 0.106 ppbv

RT: 10.545 min Scan# 3231

Delta R.T. -0.003 min

Lab File: VL042846.D

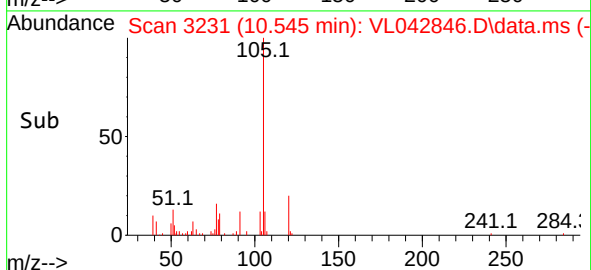
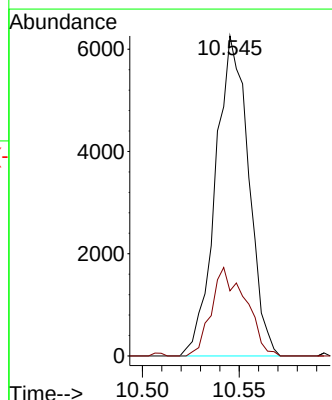
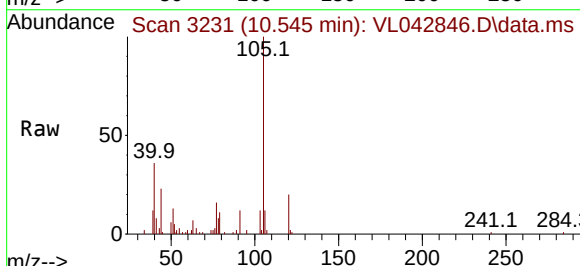
Acq: 13 Aug 2025 10:53

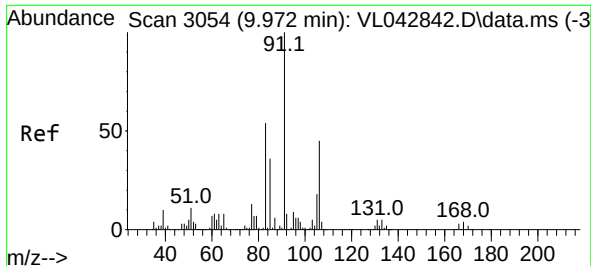
Tgt Ion:105 Resp: 7444

Ion Ratio Lower Upper

105 100

120 28.9 20.6 30.8

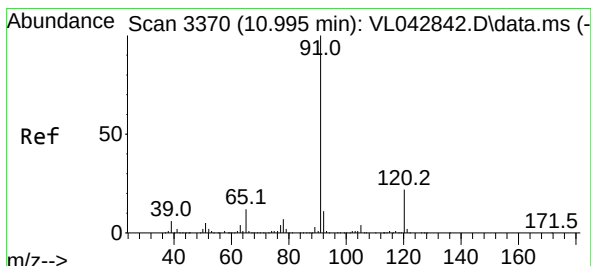
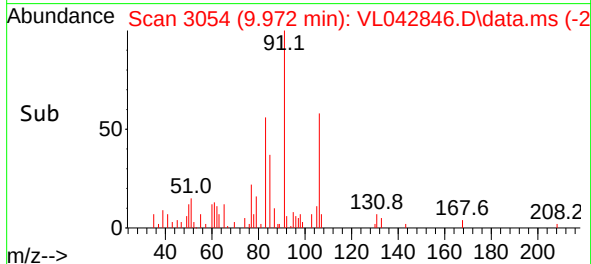
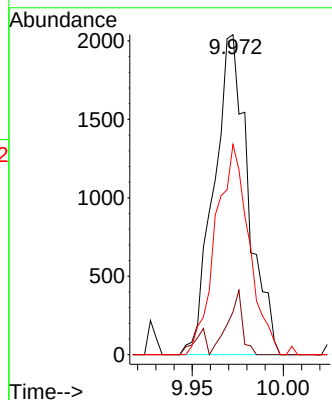
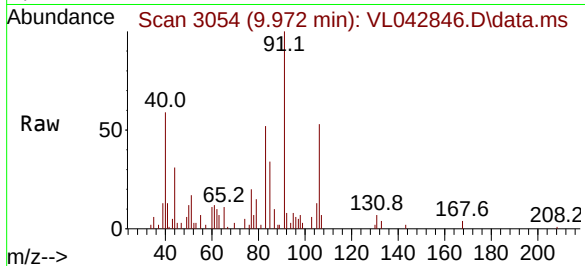




#63  
1,1,2-Tetrachloroethane  
Concen: 0.102 ppbv  
RT: 9.972 min Scan# 3054  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

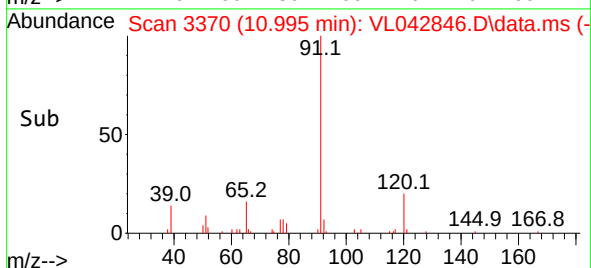
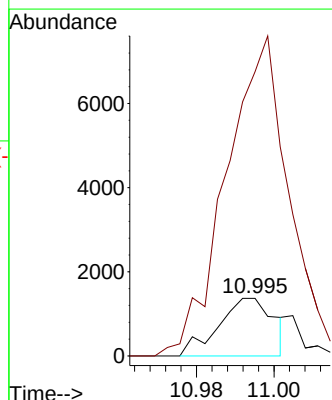
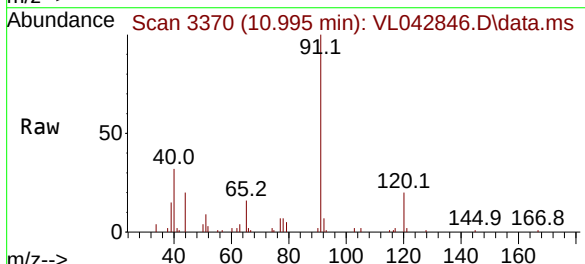
Instrument : MSVOA\_1  
ClientSampleId : VSTDIC0.1

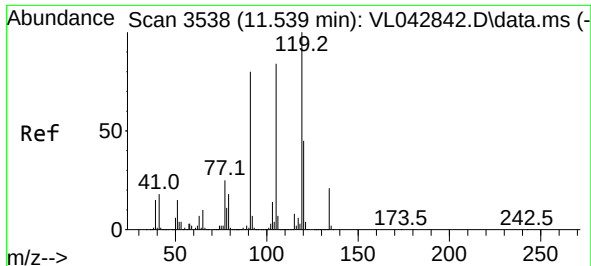
Tgt Ion: 83 Resp: 2672  
Ion Ratio Lower Upper  
83 100  
131 11.4 4.8 14.3  
85 64.3 32.3 96.8



#64  
n-propylbenzene  
Concen: 0.077 ppbv  
RT: 10.995 min Scan# 3370  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 120 Resp: 1372  
Ion Ratio Lower Upper  
120 100  
91 640.0 375.8 563.6#

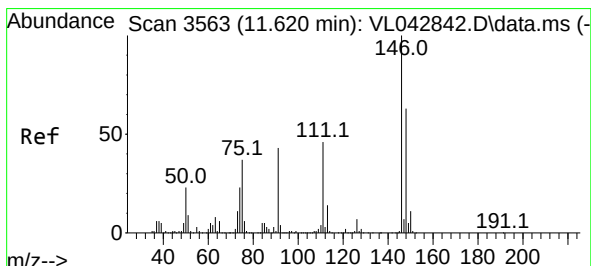
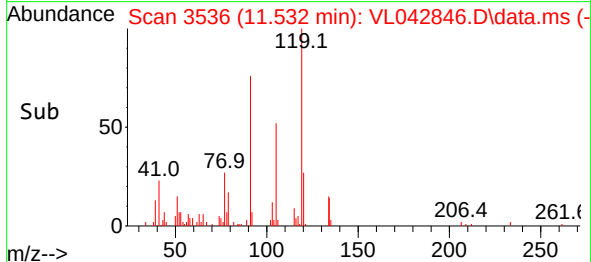
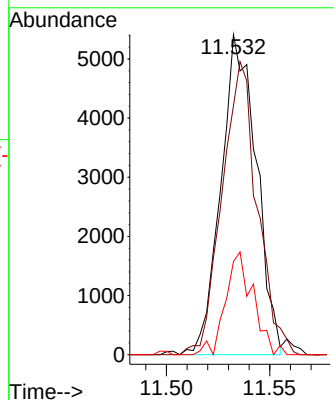
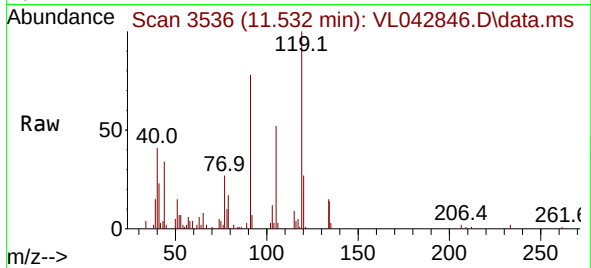




#65  
tert-Butylbenzene  
Concen: 0.104 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. -0.006 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

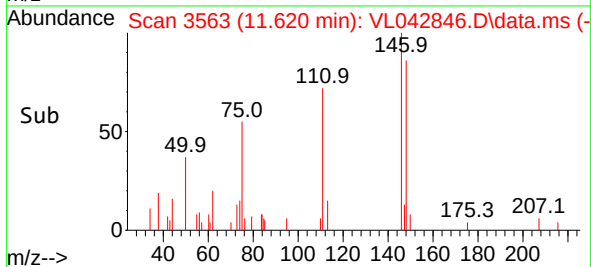
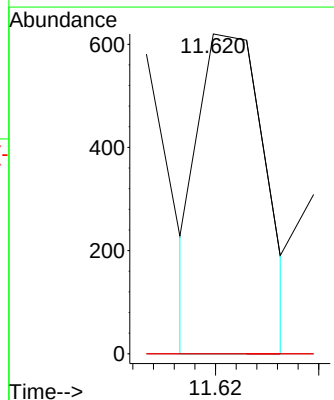
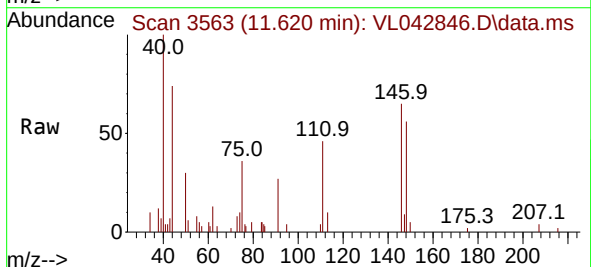
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

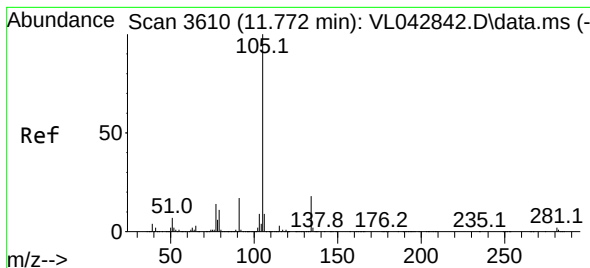
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 6442  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 91.1  | 63.9  | 95.9  |
| 134      | 25.4  | 17.0  | 25.4  |



#66  
Benzyl Chloride  
Concen: 0.035 ppbv  
RT: 11.620 min Scan# 3563  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 276   |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 126      | 0.0   | 14.2  | 21.4# |
| 128      | 0.0   | 5.0   | 7.6#  |

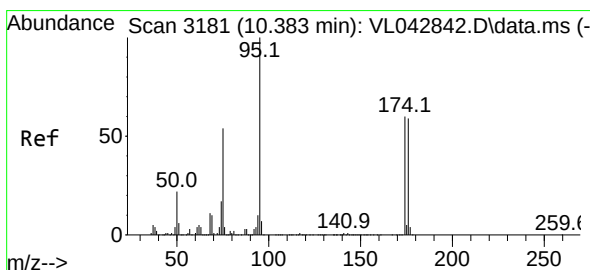
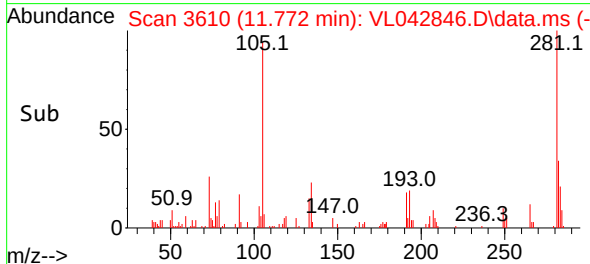
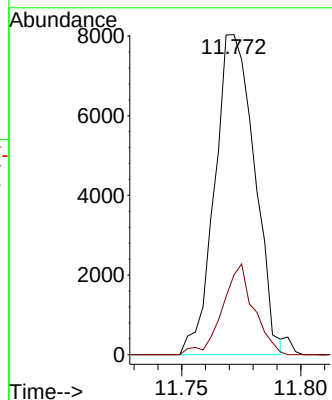
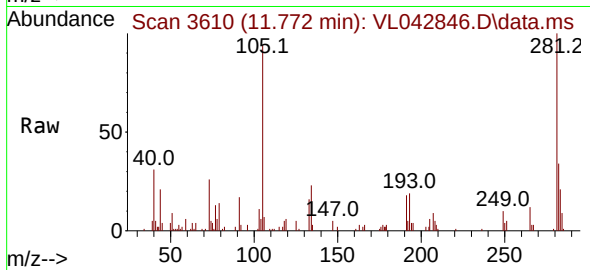




#67  
 sec-Butylbenzene  
 Concen: 0.107 ppbv  
 RT: 11.772 min Scan# 3610  
 Delta R.T. -0.000 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

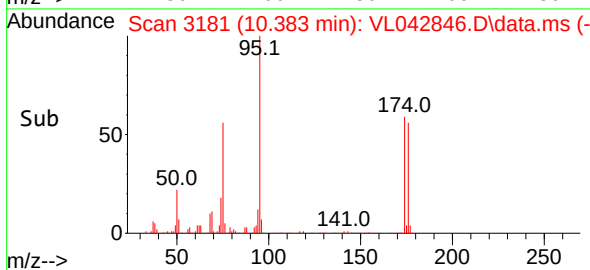
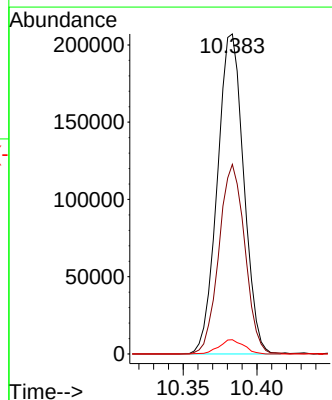
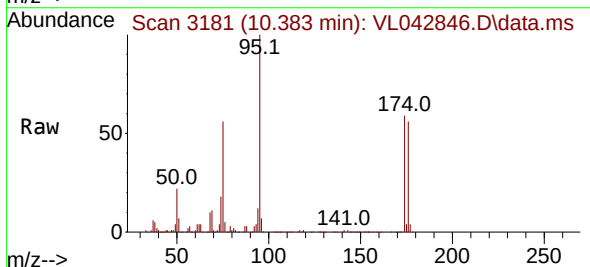
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

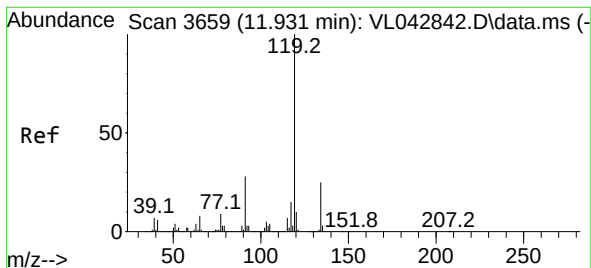
Tgt Ion:105 Resp: 9332  
 Ion Ratio Lower Upper  
 105 100  
 134 22.4 14.9 22.3#



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.948 ppbv  
 RT: 10.383 min Scan# 3181  
 Delta R.T. -0.000 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

Tgt Ion: 95 Resp: 257439  
 Ion Ratio Lower Upper  
 95 100  
 174 58.3 48.4 72.6  
 175 4.2 3.8 5.8

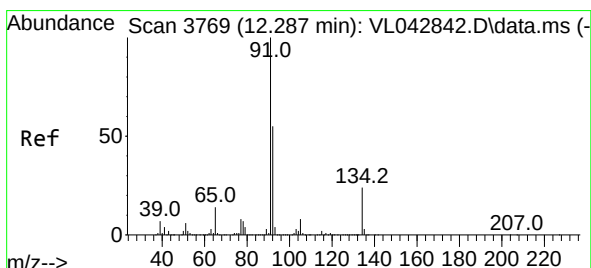
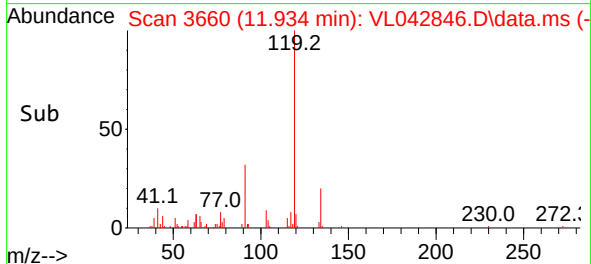
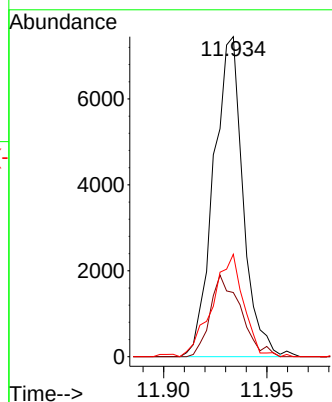
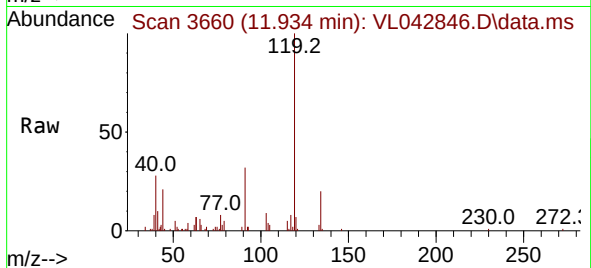




#69  
 p-Isopropyltoluene  
 Concen: 0.099 ppbv  
 RT: 11.934 min Scan# 3660  
 Delta R.T. 0.003 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

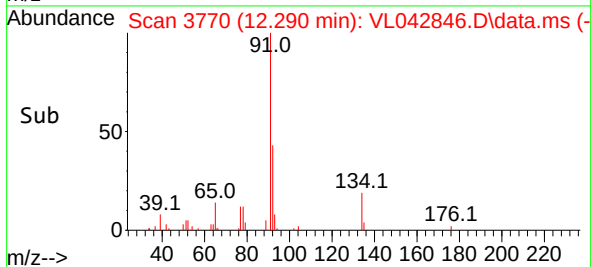
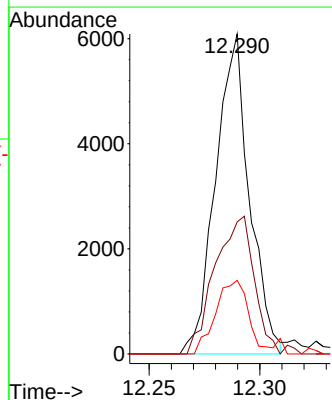
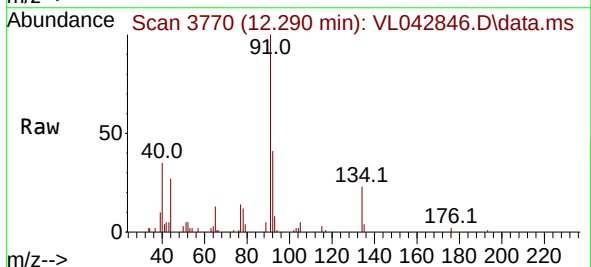
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.1

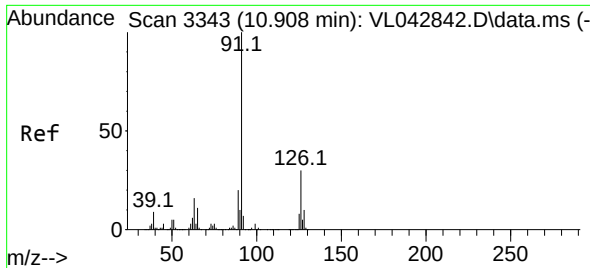
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 7360  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 26.5  | 20.6  | 30.8  |
| 91       | 34.5  | 22.6  | 34.0# |



#70  
 n-Butylbenzene  
 Concen: 0.087 ppbv  
 RT: 12.290 min Scan# 3770  
 Delta R.T. 0.003 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 6458  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 50.7  | 44.6  | 66.8  |
| 134      | 24.0  | 19.0  | 28.4  |

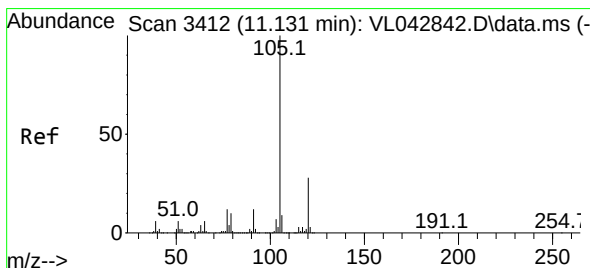
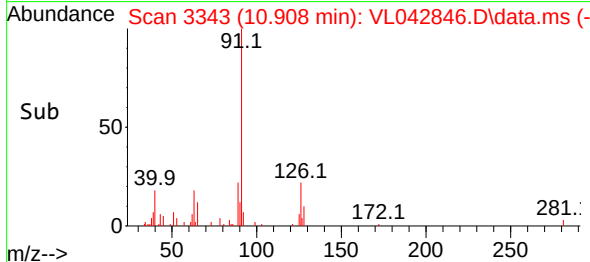
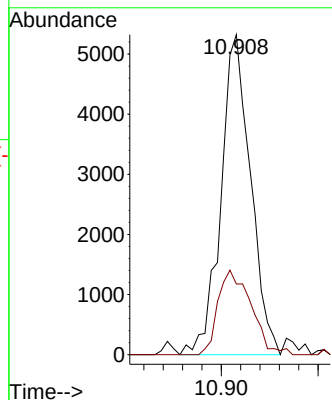
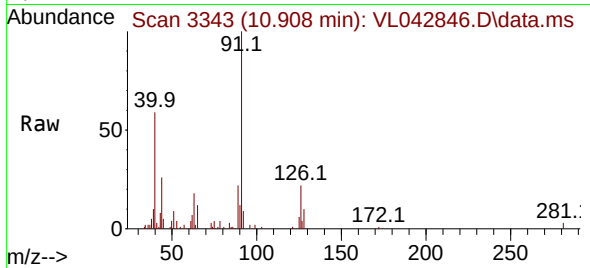




#71  
2-Chlorotoluene  
Concen: 0.104 ppbv  
RT: 10.908 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

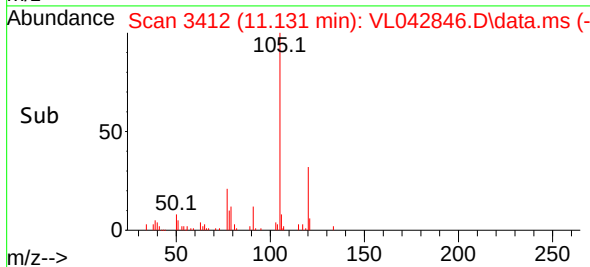
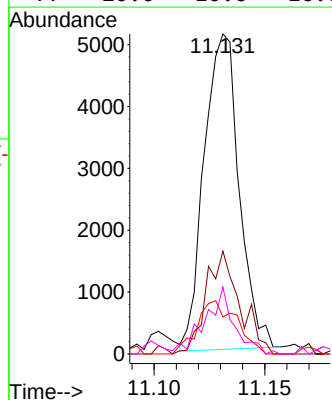
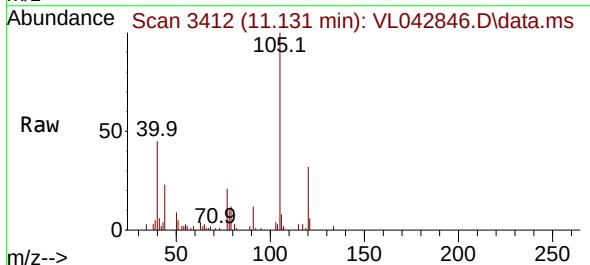
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

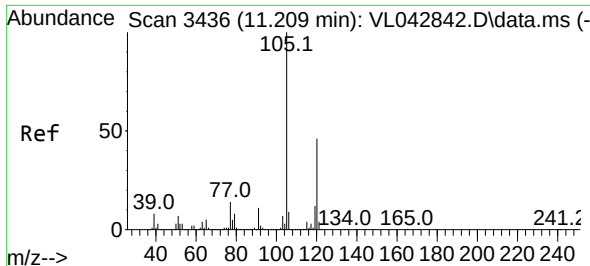
Tgt Ion: 91 Resp: 5660  
Ion Ratio Lower Upper  
91 100  
126 29.8 12.0 47.8



#72  
4-Ethyltoluene  
Concen: 0.097 ppbv  
RT: 11.131 min Scan# 3412  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion: 105 Resp: 5621  
Ion Ratio Lower Upper  
105 100  
120 32.0 23.4 35.2  
91 21.2 9.8 14.6#  
77 20.0 10.6 16.0#

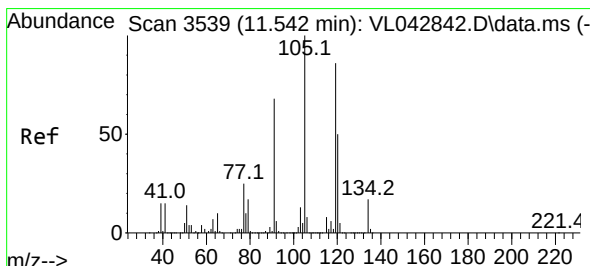
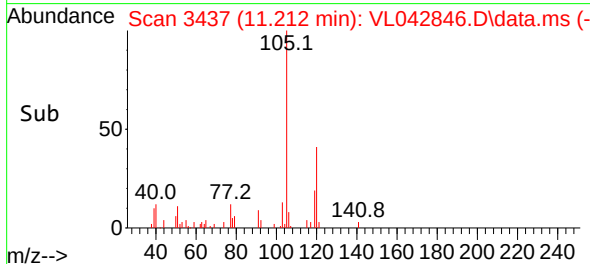
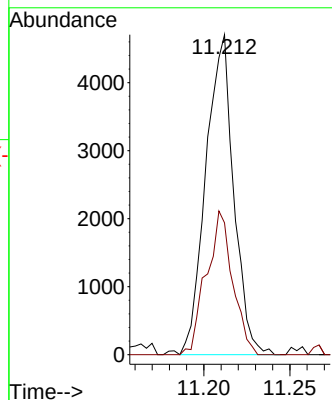
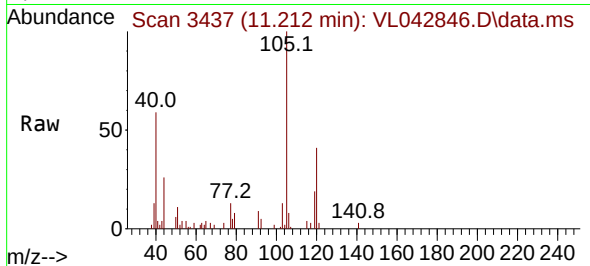




#73  
1,3,5-Trimethylbenzene  
Concen: 0.107 ppbv  
RT: 11.212 min Scan# 3437  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

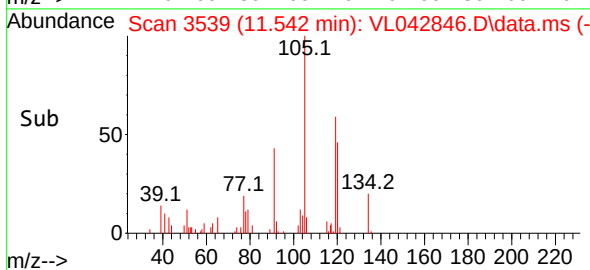
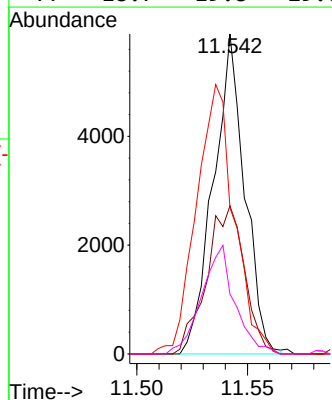
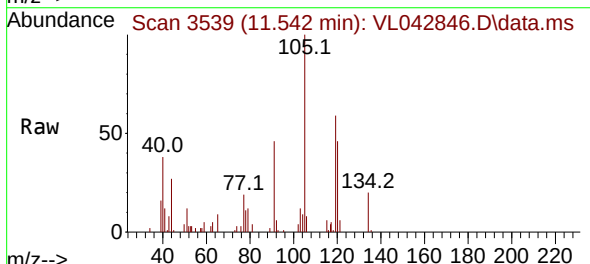
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

Tgt Ion:105 Resp: 5297  
Ion Ratio Lower Upper  
105 100  
120 41.2 36.6 54.8

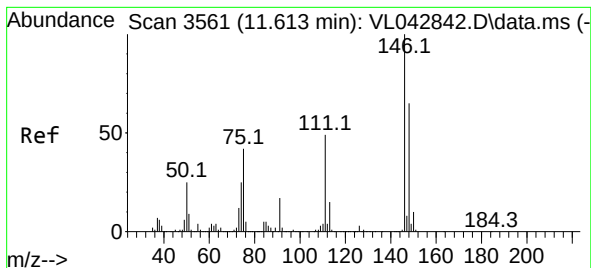


#74  
1,2,4-Trimethylbenzene  
Concen: 0.106 ppbv  
RT: 11.542 min Scan# 3539  
Delta R.T. -0.000 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion:105 Resp: 5786  
Ion Ratio Lower Upper  
105 100  
120 46.3 39.8 59.6  
91 45.6 54.2 81.4#  
77 18.7 19.8 29.6#







#75

1,3-Dichlorobenzene

Concen: 0.101 ppbv

RT: 11.617 min Scan# 3561

Delta R.T. 0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

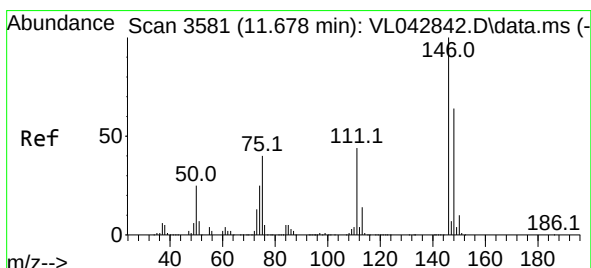
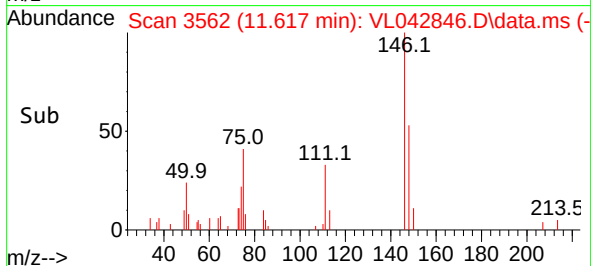
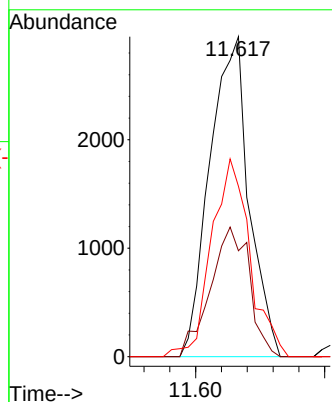
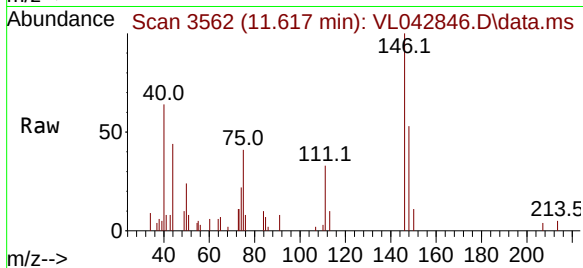
Tgt Ion:146 Resp: 3112

Ion Ratio Lower Upper

146 100

111 40.1 23.9 71.7

148 60.4 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 0.087 ppbv

RT: 11.675 min Scan# 3580

Delta R.T. -0.003 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

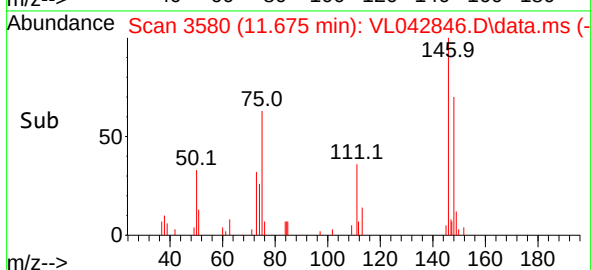
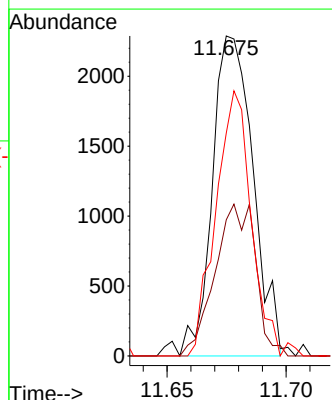
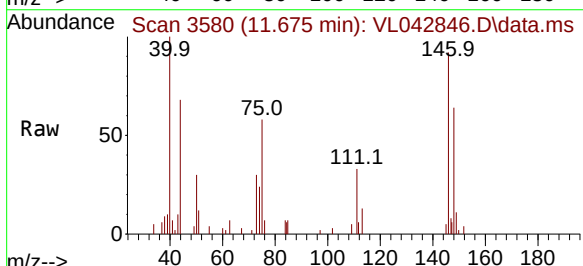
Tgt Ion:146 Resp: 2717

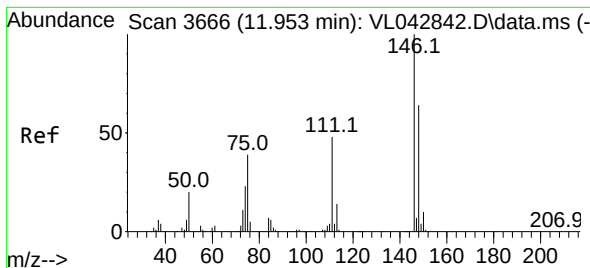
Ion Ratio Lower Upper

146 100

111 47.4 22.7 68.1

148 72.9 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 0.104 ppbv

RT: 11.953 min Scan# 3

Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.1

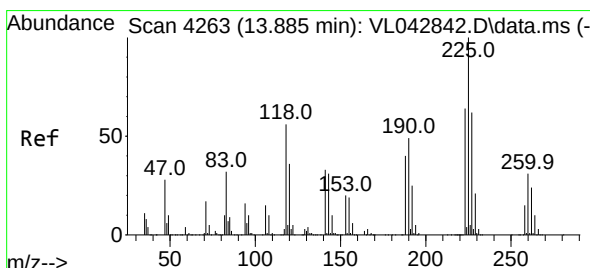
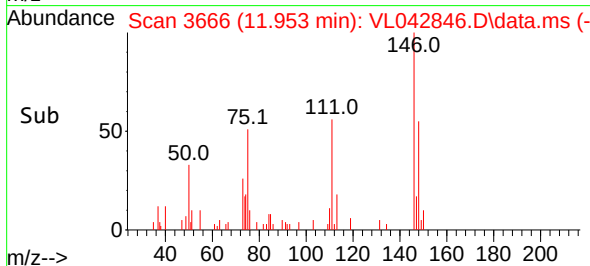
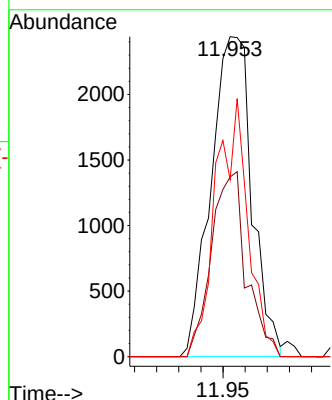
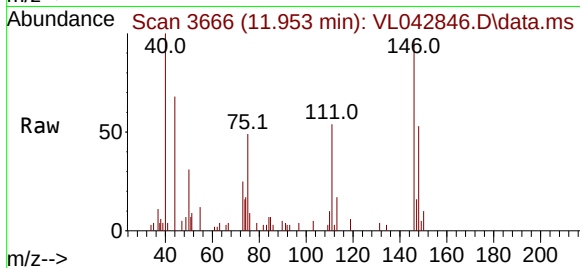
Tgt Ion:146 Resp: 3151

Ion Ratio Lower Upper

146 100

111 49.2 24.6 74.0

148 63.3 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 0.106 ppbv

RT: 13.885 min Scan# 4263

Delta R.T. -0.000 min

Lab File: VL042846.D

Acq: 13 Aug 2025 10:53

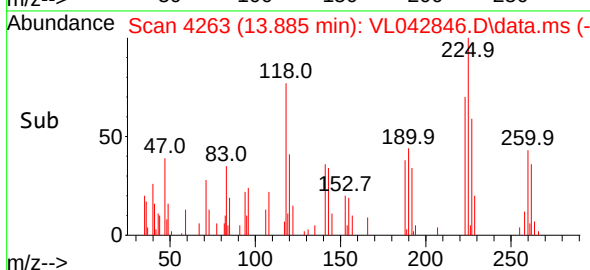
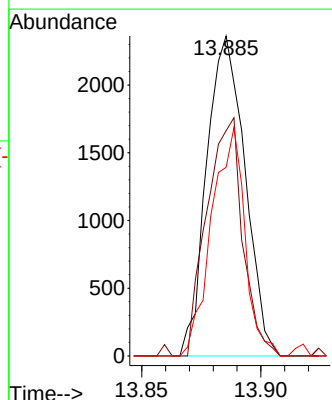
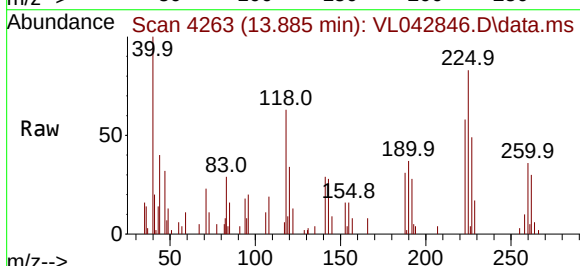
Tgt Ion:225 Resp: 2639

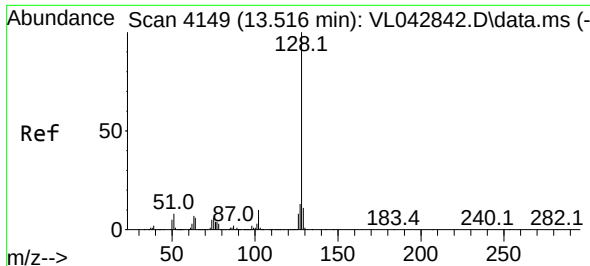
Ion Ratio Lower Upper

225 100

223 70.3 51.4 77.2

227 62.8 51.9 77.9

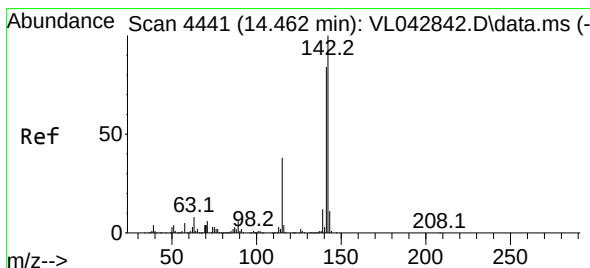
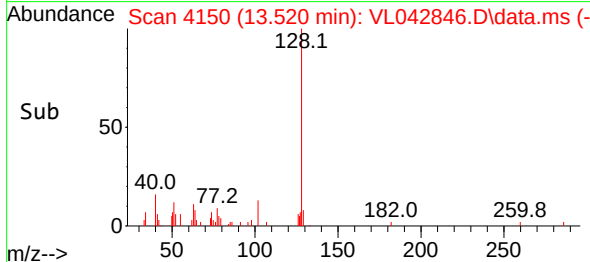
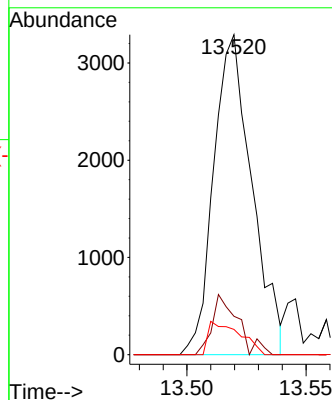
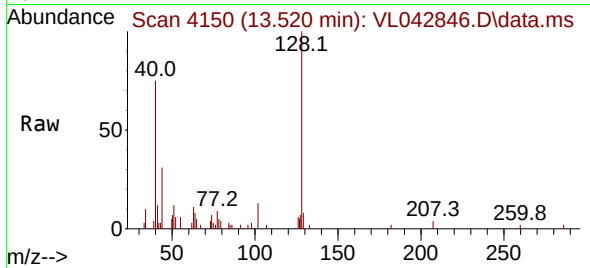




#79  
Naphthalene  
Concen: 0.075 ppbv  
RT: 13.520 min Scan# 4149  
Delta R.T. 0.003 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

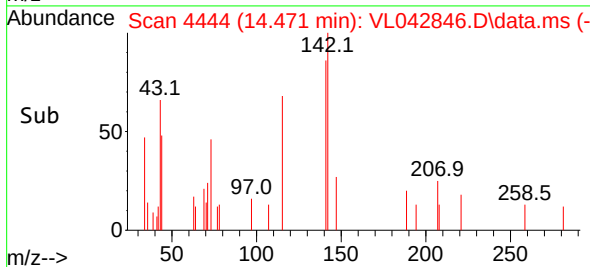
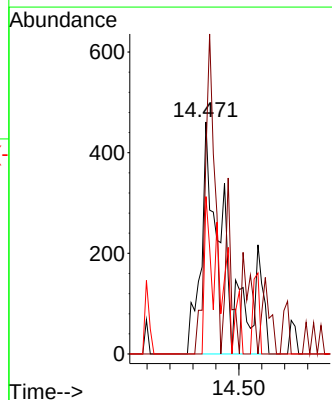
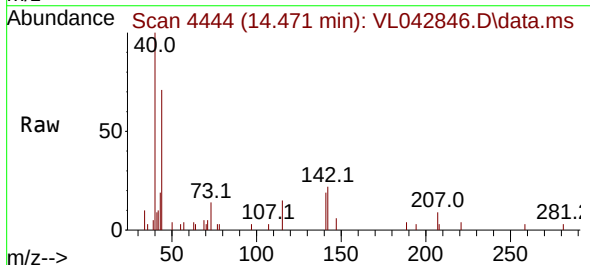
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.1

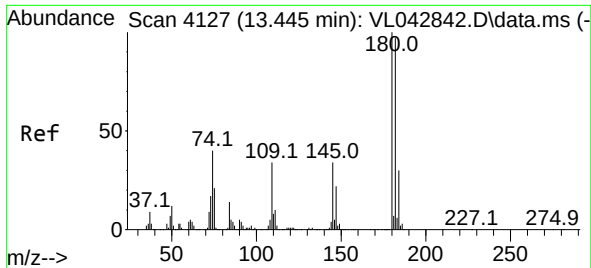
Tgt Ion:128 Resp: 3670  
Ion Ratio Lower Upper  
128 100  
127 12.0 10.6 16.0  
129 7.9 8.9 13.3#



#80  
Naphthalene,2-methyl-  
Concen: 0.037 ppbv  
RT: 14.471 min Scan# 4444  
Delta R.T. 0.010 min  
Lab File: VL042846.D  
Acq: 13 Aug 2025 10:53

Tgt Ion:142 Resp: 682  
Ion Ratio Lower Upper  
142 100  
141 104.0 67.0 100.6#  
115 43.4 30.9 46.3

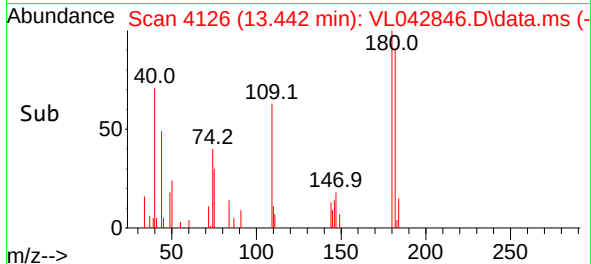
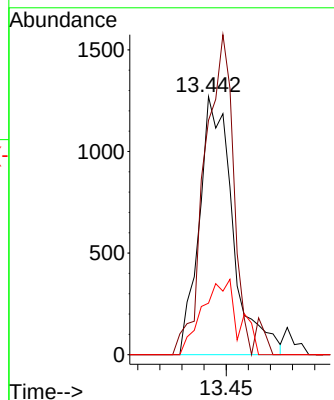
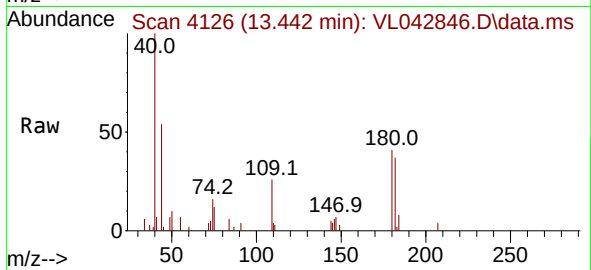




#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.054 ppbv  
 RT: 13.442 min Scan# 41  
 Delta R.T. -0.003 min  
 Lab File: VL042846.D  
 Acq: 13 Aug 2025 10:53

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1342  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 109.0 | 76.9  | 115.3 |
| 184      | 31.3  | 24.5  | 36.7  |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042847.D  
 Acq On : 13 Aug 2025 11:30  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

Quant Time: Aug 14 01:50:16 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

QLast Update : Thu Aug 14 01:44:36 2025

Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.793 | 49   | 122705   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.968 | 114  | 390076   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.894 | 117  | 339700   | 10.000 | ppbv  | 0.00     |

#### System Monitoring Compounds

|                             |        |       |          |          |      |         |
|-----------------------------|--------|-------|----------|----------|------|---------|
| 68) 1-Bromo-4-Fluorobenzene | 10.386 | 95    | 250082   | 9.816    | ppbv | 0.00    |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 98.200% |

#### Target Compounds

|                               |       |     |       |       |        | Qvalue |
|-------------------------------|-------|-----|-------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.557 | 85  | 549   | 0.031 | ppbv   | 92     |
| 3) Chlorodifluoromethane      | 1.479 | 51  | 868   | 0.044 | ppbv # | 83     |
| 4) Chloromethane              | 1.537 | 50  | 498   | 0.069 | ppbv # | 70     |
| 5) Vinyl Chloride             | 1.583 | 62  | 268   | 0.037 | ppbv # | 81     |
| 6) Bromomethane               | 1.667 | 94  | 184   | 0.064 | ppbv # | 52     |
| 7) Chloroethane               | 1.706 | 64  | 240   | 0.086 | ppbv # | 1      |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 549   | 0.037 | ppbv   | 85     |
| 9) Propene                    | 1.602 | 41  | 687   | 0.080 | ppbv   | 93     |
| 10) Heptane                   | 4.994 | 43  | 492   | 0.021 | ppbv # | 1      |
| 11) Trichlorofluoromethane    | 1.884 | 101 | 420   | 0.024 | ppbv   | 95     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 592   | 0.042 | ppbv # | 78     |
| 13) Ethanol                   | 1.722 | 45  | 370   | 0.435 | ppbv # | 32     |
| 14) Bromoethene               | 1.787 | 108 | 243   | 0.047 | ppbv # | 66     |
| 15) Acetone                   | 1.845 | 43  | 1759  | 0.108 | ppbv # | 44     |
| 16) 1,3-Butadiene             | 1.612 | 39  | 303   | 0.041 | ppbv # | 1      |
| 17) tert-Butyl alcohol        | 2.039 | 59  | 167   | 0.009 | ppbv # | 71     |
| 18) 1,1-Dichloroethene        | 2.042 | 96  | 464   | 0.075 | ppbv # | 27     |
| 19) Isopropyl Alcohol         | 1.893 | 45  | 945   | 0.097 | ppbv # | 65     |
| 20) Methylene Chloride        | 2.068 | 84  | 2076  | 0.305 | ppbv # | 73     |
| 21) Allyl Chloride            | 2.104 | 41  | 953   | 0.083 | ppbv # | 50     |
| 22) trans-1,2-Dichloroethene  | 2.350 | 96  | 317   | 0.046 | ppbv # | 21     |
| 23) Vinyl Acetate             | 2.470 | 43  | 629   | 0.029 | ppbv # | 36     |
| 24) 1,1-Dichloroethane        | 2.411 | 63  | 388   | 0.027 | ppbv # | 71     |
| 25) Ethyl Acetate             | 2.839 | 43  | 126   | 0.003 | ppbv # | 1      |
| 26) Hexane                    | 2.826 | 57  | 483   | 0.027 | ppbv # | 1      |
| 27) Carbon Disulfide          | 2.159 | 76  | 509   | 0.029 | ppbv # | 1      |
| 28) Methyl tert-Butyl Ether   | 2.450 | 73  | 517   | 0.056 | ppbv # | 1      |
| 29) Chloroform                | 2.855 | 83  | 902   | 0.035 | ppbv   | 100    |
| 30) Cyclohexane               | 3.861 | 84  | 352   | 0.022 | ppbv # | 1      |
| 31) cis-1,2-Dichloroethene    | 2.729 | 61  | 497   | 0.027 | ppbv # | 73     |
| 32) 1,1,1-Trichloroethane     | 3.379 | 97  | 493   | 0.018 | ppbv # | 31     |
| 34) 2-Butanone                | 2.567 | 43  | 422   | 0.016 | ppbv # | 52     |
| 35) Carbon Tetrachloride      | 3.774 | 117 | 756   | 0.028 | ppbv # | 68     |
| 36) Benzene                   | 3.670 | 78  | 1185  | 0.032 | ppbv # | 90     |
| 37) 1,2-Dichloroethane        | 3.227 | 62  | 792   | 0.041 | ppbv # | 94     |
| 38) Trichloroethene           | 4.560 | 130 | 363   | 0.021 | ppbv # | 45     |
| 39) 1,2-Dichloropropane       | 3.968 | 63  | 93873 | 6.881 | ppbv # | 27     |
| 40) 1,4-Dioxane               | 4.641 | 88  | 105   | 0.016 | ppbv # | 1      |
| 41) Tetrahydrofuran           | 3.059 | 42  | 127   | 0.009 | ppbv # | 36     |
| 42) Bromodichloromethane      | 4.499 | 83  | 271   | 0.009 | ppbv # | 91     |
| 43) Methyl Methacrylate       | 4.900 | 69  | 270   | 0.018 | ppbv # | 1      |
| 44) 2,2,4-Trimethylpentane    | 4.651 | 57  | 726   | 0.012 | ppbv # | 43     |
| 45) t-1,3-Dichloropropene     | 6.428 | 75  | 162   | 0.009 | ppbv # | 1      |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042847.D  
 Acq On : 13 Aug 2025 11:30  
 Operator : SY/MD  
 Sample : VSTDICC0.03  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDICC0.03

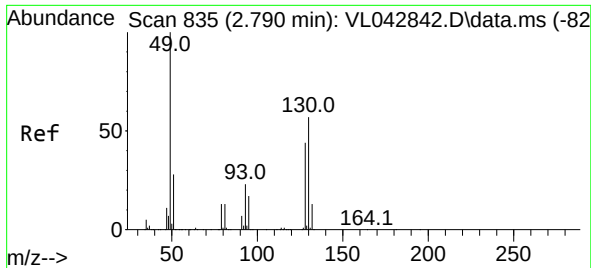
Quant Time: Aug 14 01:50:16 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.612  | 75   | 343      | 0.016 | ppbv # | 65       |
| 47) 1,1,2-Trichloroethane     | 6.593  | 97   | 30       | 0.002 | ppbv # | 27       |
| 48) Dibromochloromethane      | 7.399  | 129  | 593      | 0.025 | ppbv   | 71       |
| 49) Bromoform                 | 9.493  | 173  | 431      | 0.022 | ppbv   | 93       |
| 50) 4-Methyl-2-Pentanone      | 5.768  | 43   | 54       | 0.002 | ppbv # | 38       |
| 51) 2-Hexanone                | 7.444  | 43   | 92       | 0.003 | ppbv # | 27       |
| 52) Tetrachloroethene         | 8.241  | 164  | 262      | 0.019 | ppbv # | 67       |
| 53) Toluene                   | 6.855  | 91   | 39       | 0.001 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.668  | 107  | 313      | 0.015 | ppbv # | 56       |
| 56) 1,1,1,2-Tetrachloroethane | 8.953  | 131  | 49       | 0.003 | ppbv # | 8        |
| 57) Chlorobenzene             | 8.943  | 112  | 561      | 0.017 | ppbv # | 70       |
| 58) Ethyl Benzene             | 9.529  | 91   | 267      | 0.004 | ppbv   | 96       |
| 59) m/p-Xylene                | 9.542  | 91   | 1589     | 0.034 | ppbv # | 100      |
| 60) o-Xylene                  | 9.975  | 91   | 1722     | 0.036 | ppbv   | 90       |
| 61) Styrene                   | 9.888  | 104  | 354      | 0.016 | ppbv # | 28       |
| 62) Isopropylbenzene          | 10.548 | 105  | 1945     | 0.028 | ppbv # | 87       |
| 63) 1,1,2,2-Tetrachloroethane | 9.979  | 83   | 451      | 0.017 | ppbv # | 1        |
| 64) n-propylbenzene           | 10.998 | 120  | 470      | 0.027 | ppbv # | 63       |
| 65) tert-Butylbenzene         | 11.539 | 119  | 2234     | 0.037 | ppbv # | 98       |
| 66) Benzyl Chloride           | 11.626 | 91   | 27       | 0.003 | ppbv # | 65       |
| 67) sec-Butylbenzene          | 11.778 | 105  | 2703     | 0.032 | ppbv # | 64       |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 2136     | 0.029 | ppbv # | 88       |
| 70) n-Butylbenzene            | 12.296 | 91   | 829      | 0.011 | ppbv # | 4        |
| 71) 2-Chlorotoluene           | 10.911 | 91   | 1870     | 0.035 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.134 | 105  | 1543     | 0.027 | ppbv # | 81       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 1716     | 0.035 | ppbv   | 96       |
| 74) 1,2,4-Trimethylbenzene    | 11.545 | 105  | 1610     | 0.030 | ppbv # | 76       |
| 75) 1,3-Dichlorobenzene       | 11.623 | 146  | 182      | 0.006 | ppbv # | 23       |
| 76) 1,4-Dichlorobenzene       | 11.681 | 146  | 596      | 0.019 | ppbv   | 70       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 701      | 0.024 | ppbv   | 87       |
| 78) Hexachloro-1,3-Butadiene  | 13.888 | 225  | 744      | 0.030 | ppbv # | 84       |
| 79) Naphthalene               | 13.523 | 128  | 998      | 0.021 | ppbv # | 87       |
| 80) Naphthalene,2-methyl-     | 14.536 | 142  | 73       | 0.004 | ppbv # | 78       |
| 81) 1,2,4-Trichlorobenzene    | 13.461 | 180  | 114      | 0.005 | ppbv # | 1        |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

- 1
- 2
- 3
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- 6
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- 8
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- 11
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- 14
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- 17
- 18

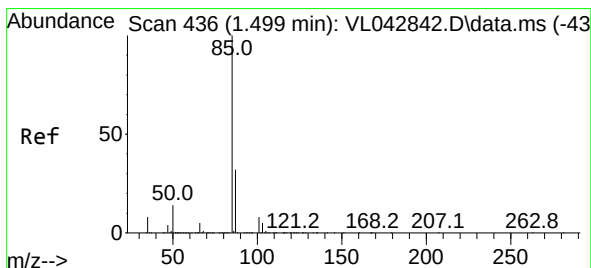
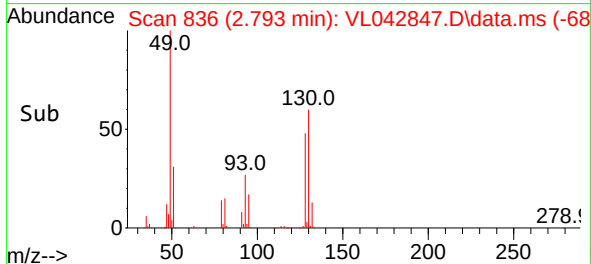
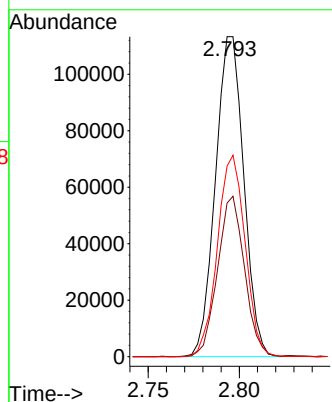
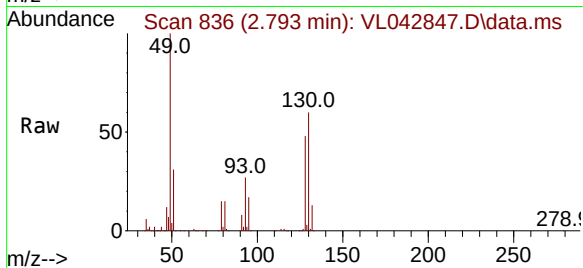




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.793 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

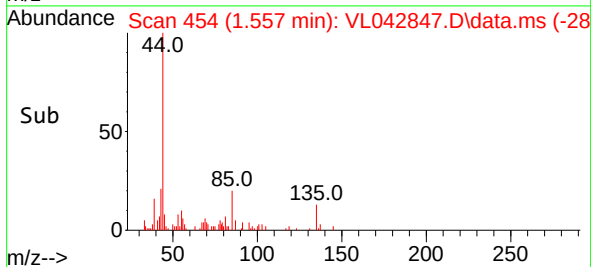
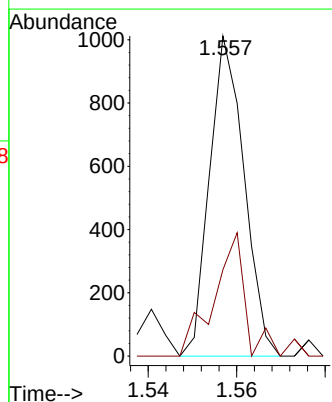
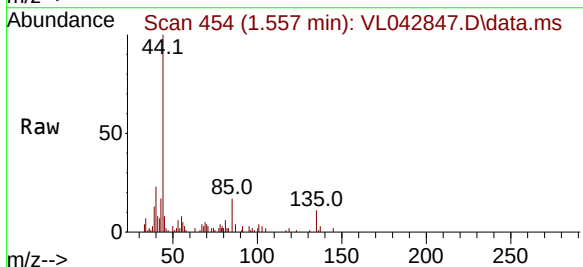
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

Tgt Ion: 49 Resp: 122705  
Ion Ratio Lower Upper  
49 100  
128 47.7 23.7 71.1  
130 61.6 30.6 91.6

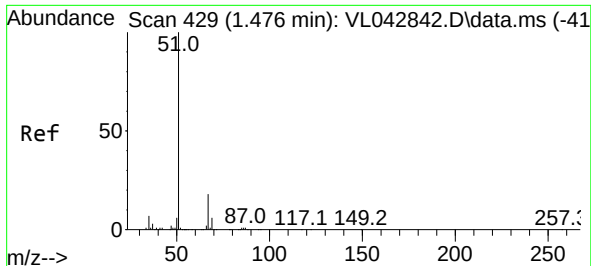


#2  
Dichlorodifluoromethane  
Concen: 0.031 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.058 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 85 Resp: 549  
Ion Ratio Lower Upper  
85 100  
87 27.0 25.3 37.9



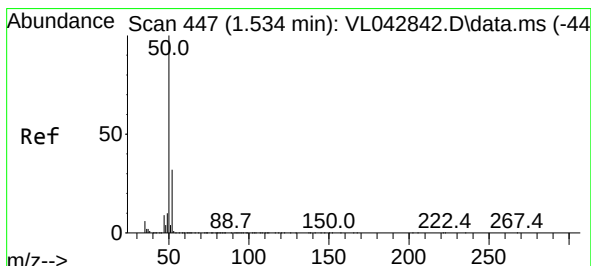
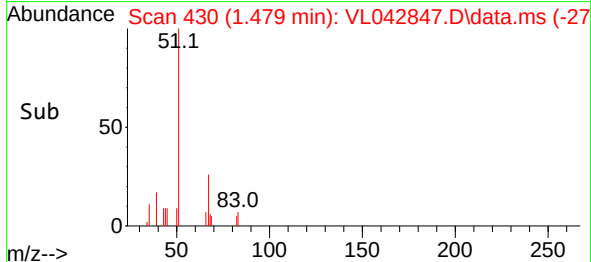
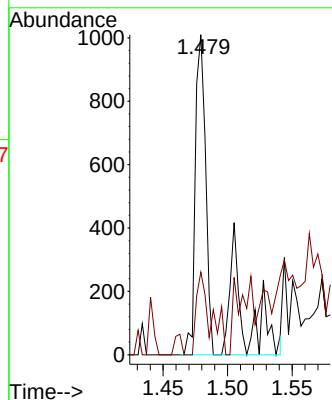
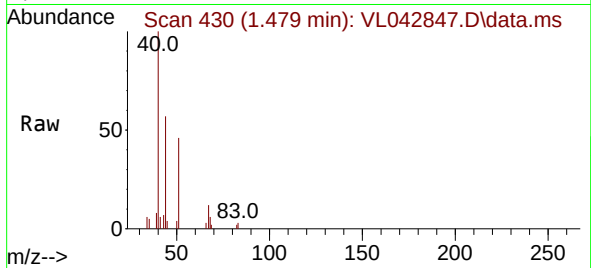




#3  
Chlorodifluoromethane  
Concen: 0.044 ppbv  
RT: 1.479 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

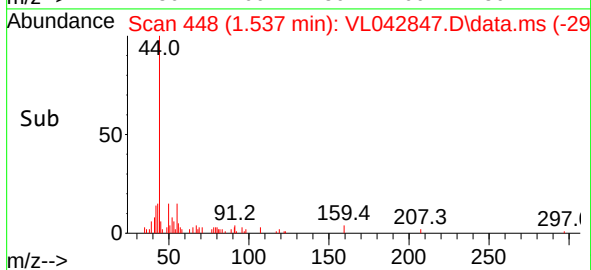
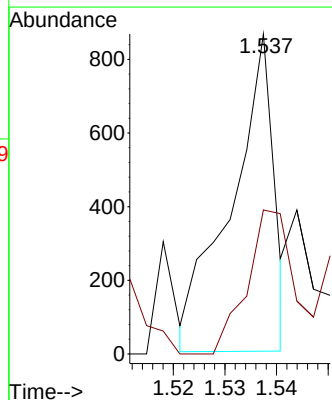
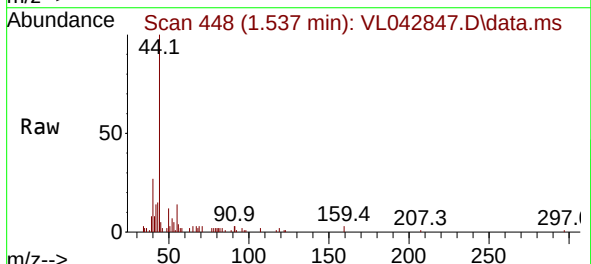
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

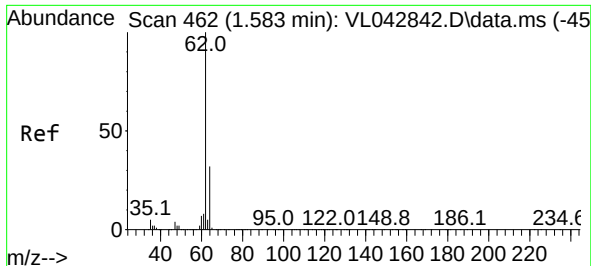
Tgt Ion: 51 Resp: 868  
Ion Ratio Lower Upper  
51 100  
67 26.4 14.9 22.3#



#4  
Chloromethane  
Concen: 0.069 ppbv  
RT: 1.537 min Scan# 448  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 50 Resp: 498  
Ion Ratio Lower Upper  
50 100  
52 49.3 25.9 38.9#

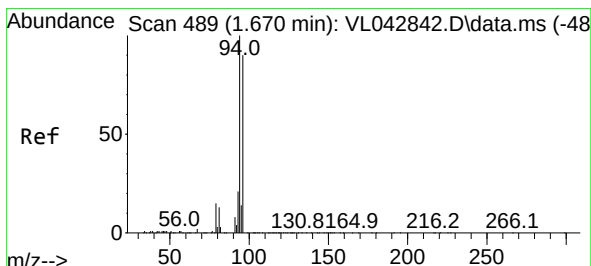
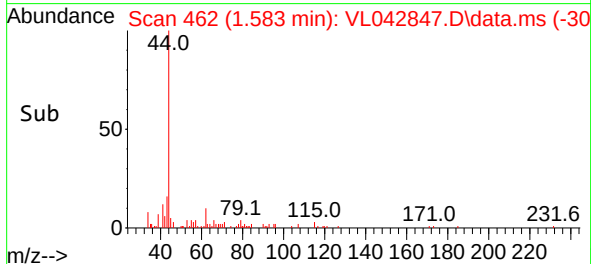
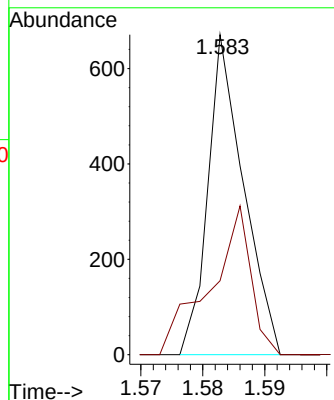
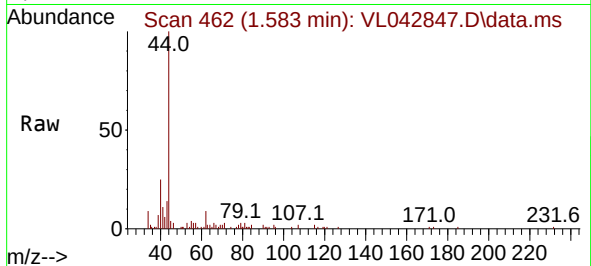




#5  
 Vinyl Chloride  
 Concen: 0.037 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. -0.000 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

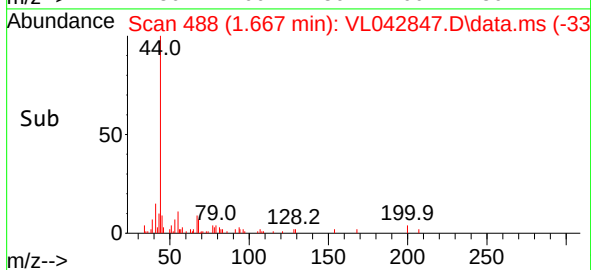
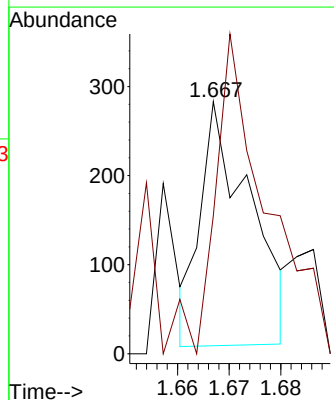
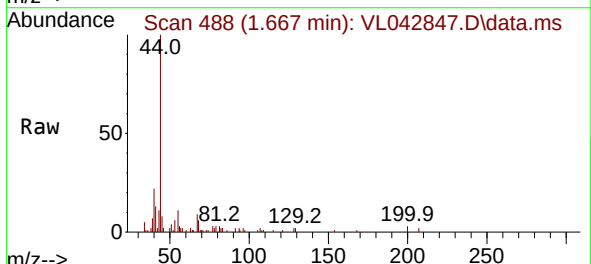
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.03

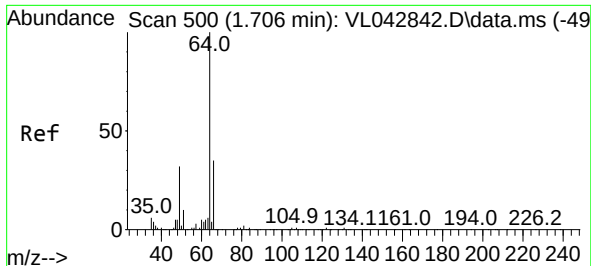
Tgt Ion: 62 Resp: 268  
 Ion Ratio Lower Upper  
 62 100  
 64 21.2 25.4 38.2#



#6  
 Bromomethane  
 Concen: 0.064 ppbv  
 RT: 1.667 min Scan# 488  
 Delta R.T. -0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

Tgt Ion: 94 Resp: 184  
 Ion Ratio Lower Upper  
 94 100  
 96 45.2 72.1 108.1#

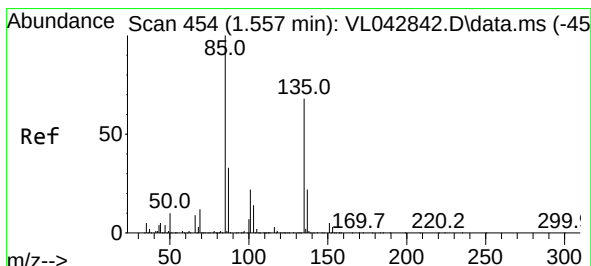
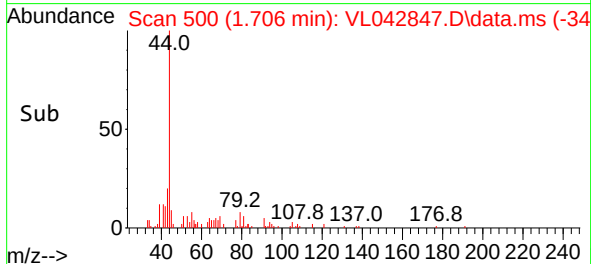
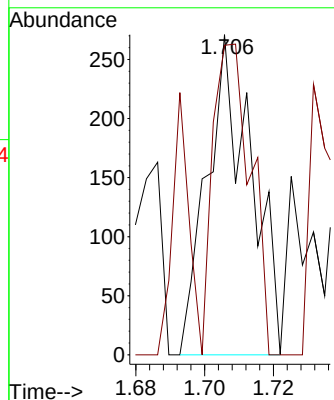
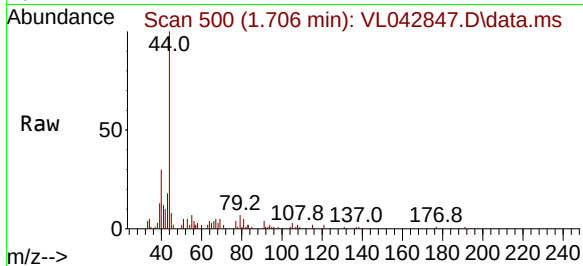




#7  
Chloroethane  
Concen: 0.086 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

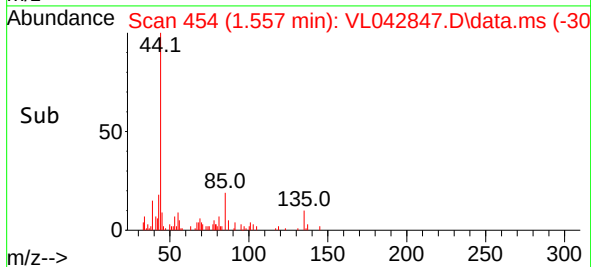
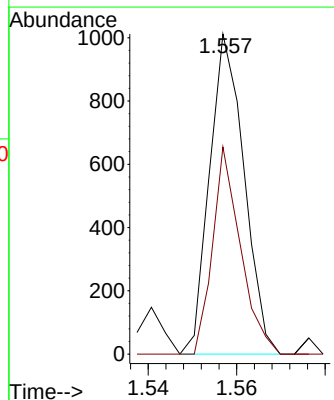
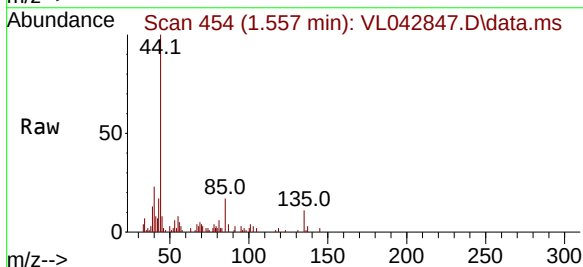
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

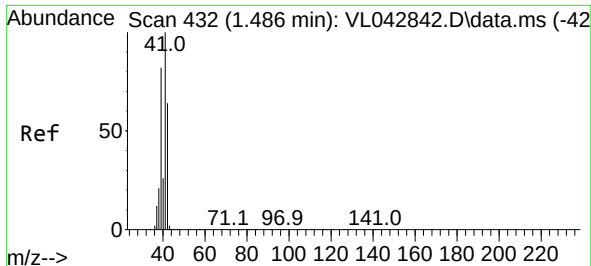
Tgt Ion: 64 Resp: 240  
Ion Ratio Lower Upper  
64 100  
66 96.7 28.6 42.8#



#8  
Dichlorotetrafluoroethane  
Concen: 0.037 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 85 Resp: 549  
Ion Ratio Lower Upper  
85 100  
135 52.3 51.2 76.8

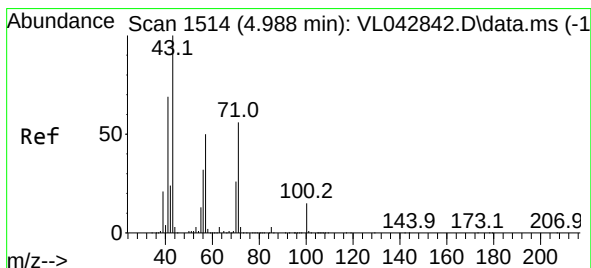
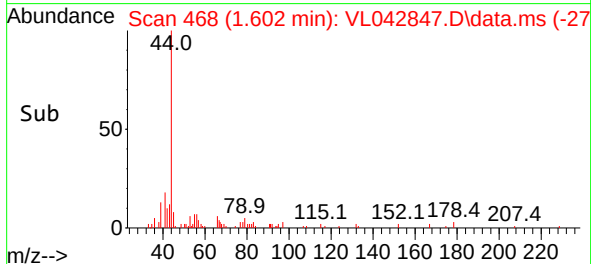
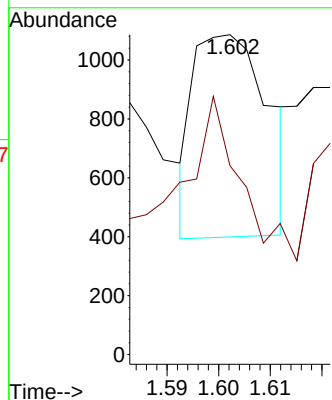
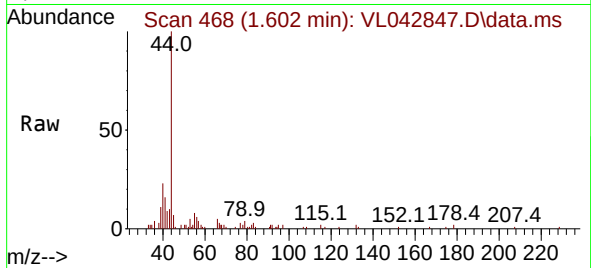




#9  
Propene  
Concen: 0.080 ppbv  
RT: 1.602 min Scan# 41  
Delta R.T. 0.116 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

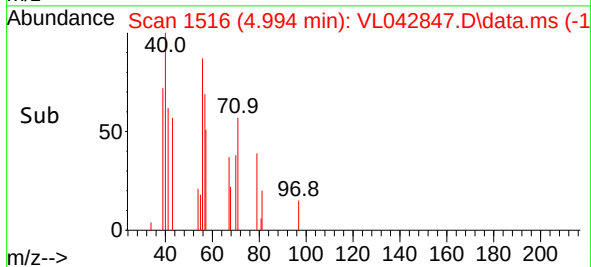
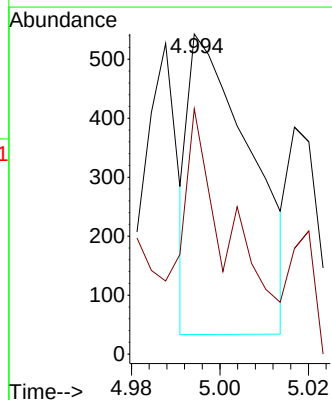
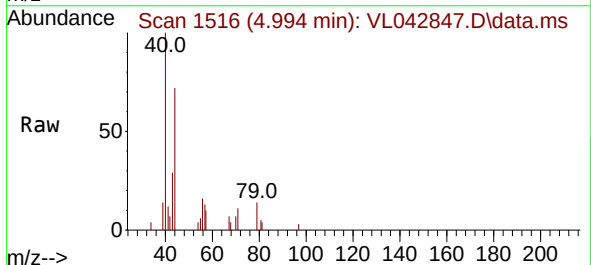
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

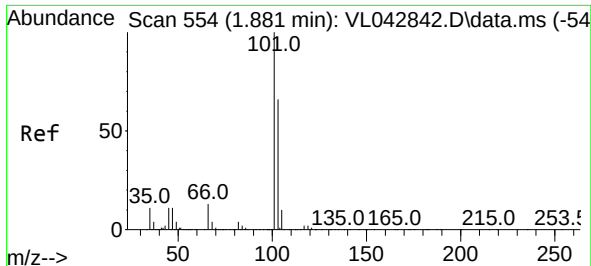
Tgt Ion: 41 Resp: 687  
Ion Ratio Lower Upper  
41 100  
42 72.1 53.0 79.4



#10  
Heptane  
Concen: 0.021 ppbv  
RT: 4.994 min Scan# 1516  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 43 Resp: 492  
Ion Ratio Lower Upper  
43 100  
57 137.2 41.4 62.0#

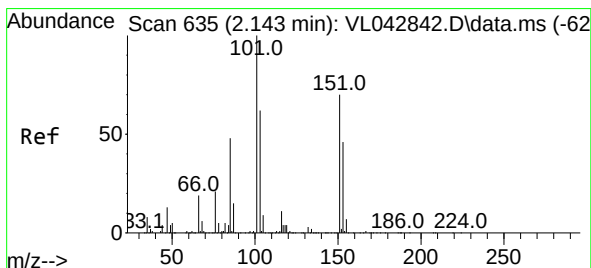
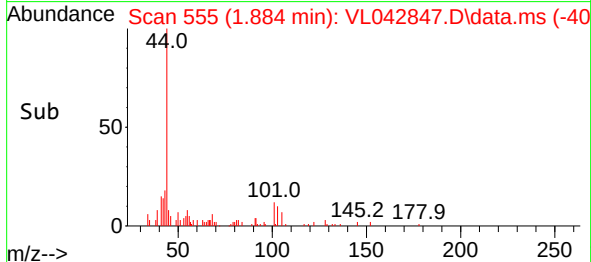
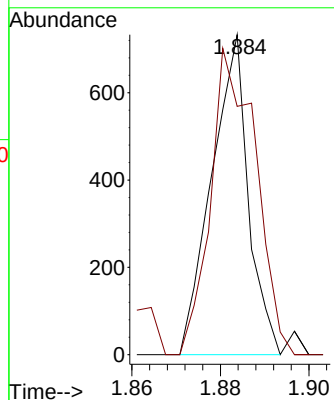
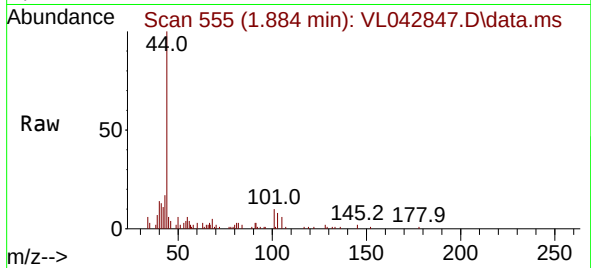




#11  
 Trichlorofluoromethane  
 Concen: 0.024 ppbv  
 RT: 1.884 min Scan# 511  
 Delta R.T. 0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

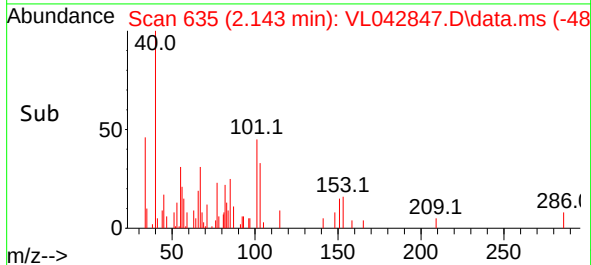
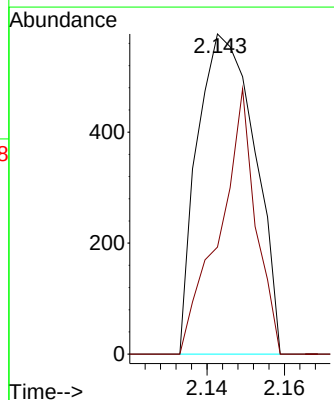
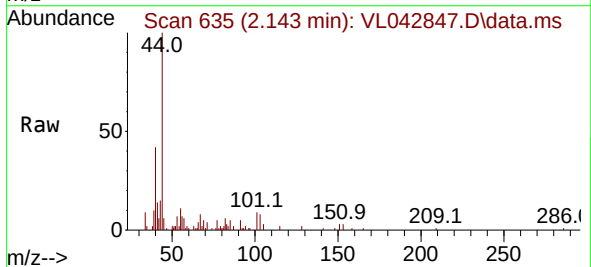
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.03

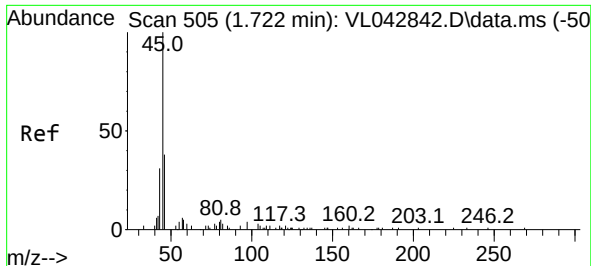
Tgt Ion:101 Resp: 420  
 Ion Ratio Lower Upper  
 101 100  
 103 69.7 52.5 78.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.042 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. -0.000 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

Tgt Ion:101 Resp: 592  
 Ion Ratio Lower Upper  
 101 100  
 151 52.5 56.4 84.6#

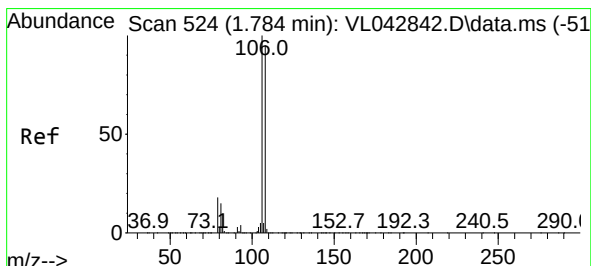
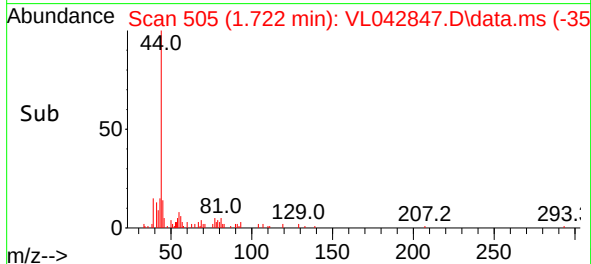
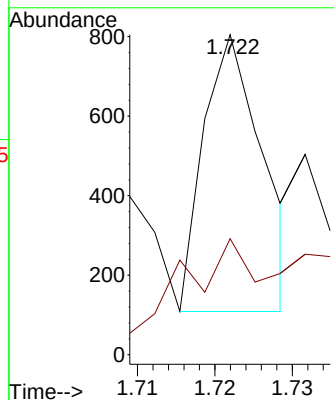
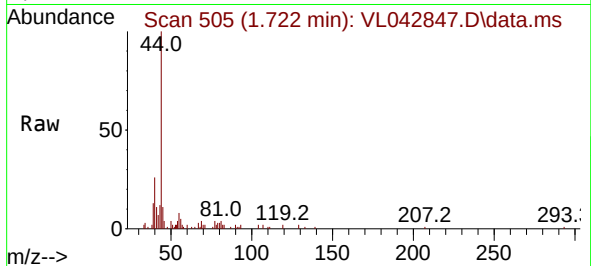




#13  
 Ethanol  
 Concen: 0.435 ppbv  
 RT: 1.722 min Scan# 505  
 Delta R.T. -0.000 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

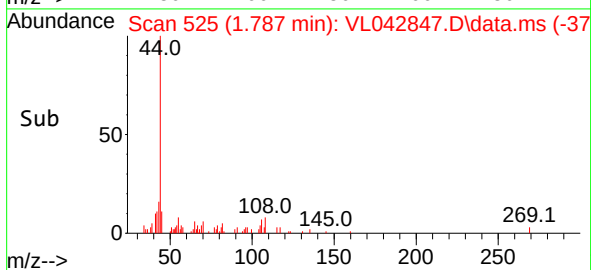
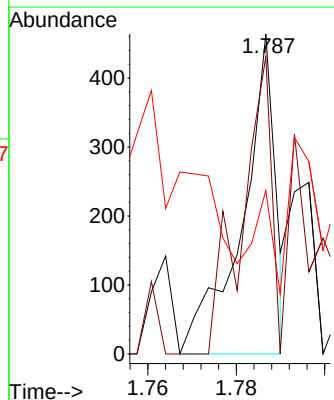
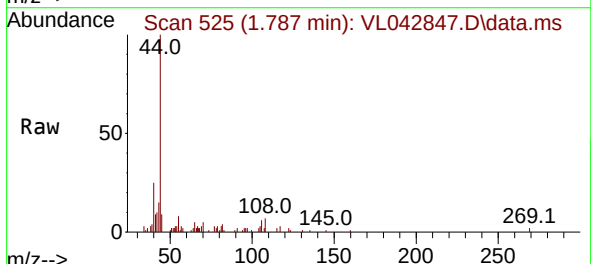
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03

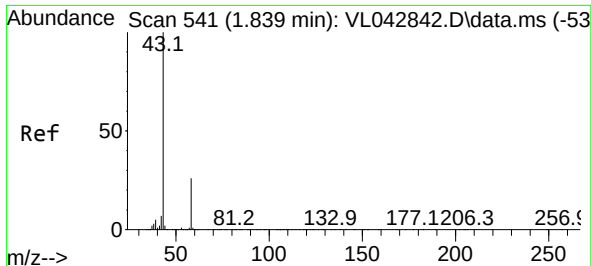
Tgt Ion: 45 Resp: 370  
 Ion Ratio Lower Upper  
 45 100  
 46 0.0 17.5 69.9#



#14  
 Bromoethene  
 Concen: 0.047 ppbv  
 RT: 1.787 min Scan# 525  
 Delta R.T. 0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

Tgt Ion: 108 Resp: 243  
 Ion Ratio Lower Upper  
 108 100  
 106 139.9 85.1 127.7#  
 79 0.0 16.3 24.5#

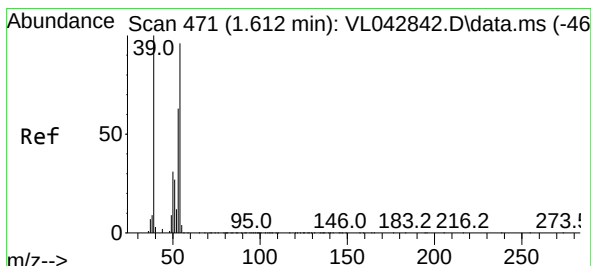
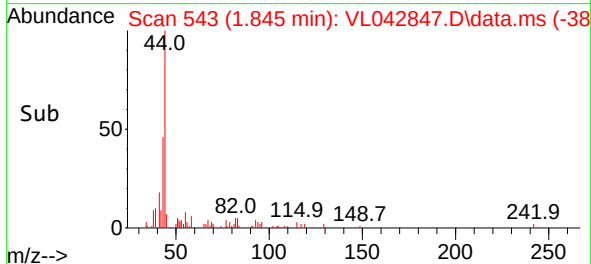
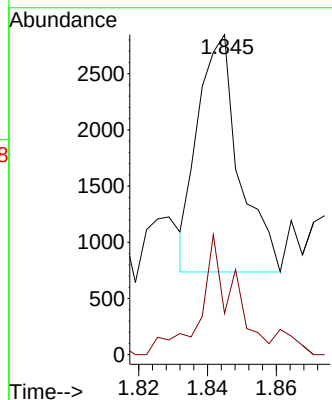
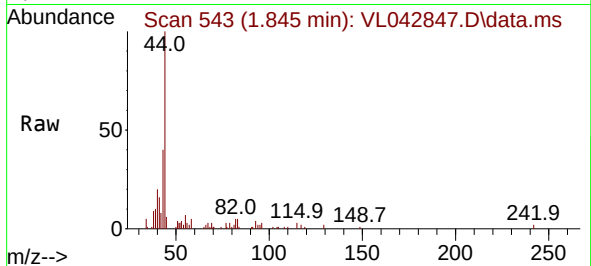




#15  
Acetone  
Concen: 0.108 ppbv  
RT: 1.845 min Scan# 541  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

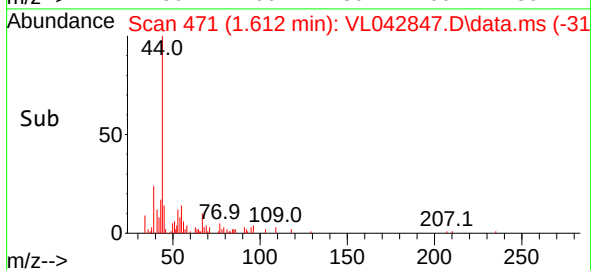
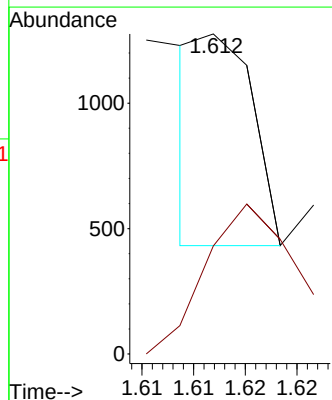
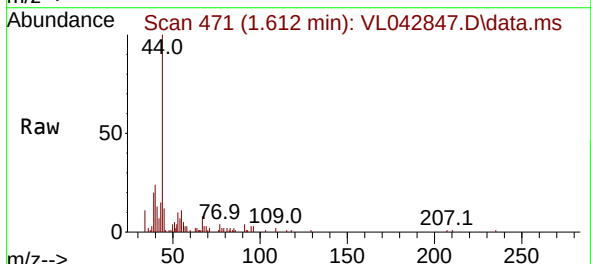
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

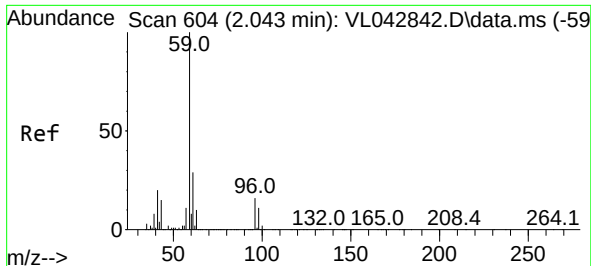
Tgt Ion: 43 Resp: 1759  
Ion Ratio Lower Upper  
43 100  
58 57.4 22.4 33.6#



#16  
1,3-Butadiene  
Concen: 0.041 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 39 Resp: 303  
Ion Ratio Lower Upper  
39 100  
54 197.7 63.6 95.4#





#17

tert-Butyl alcohol

Concen: 0.009 ppbv

RT: 2.039 min Scan# 603

Delta R.T. -0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA\_L

ClientSampleId :

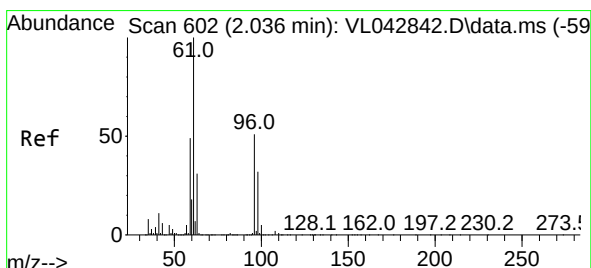
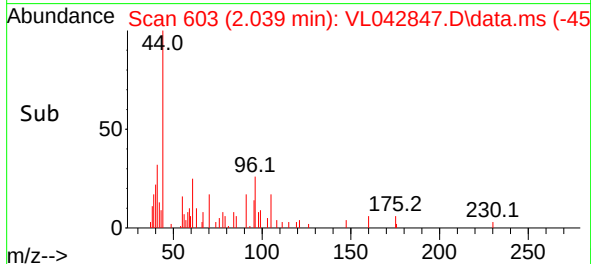
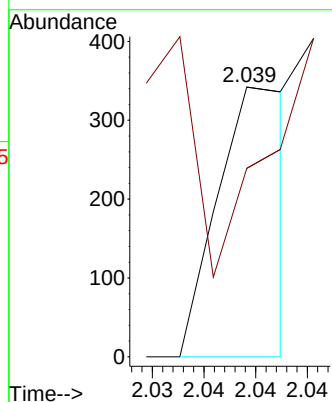
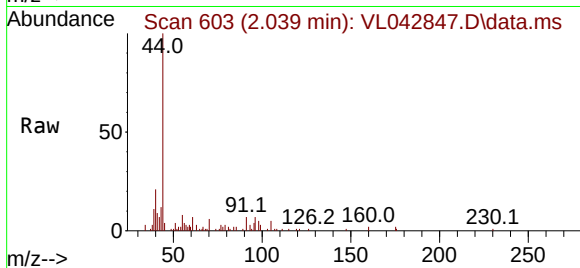
VSTDIC0.03

Tgt Ion: 59 Resp: 167

Ion Ratio Lower Upper

59 100

57 0.0 9.0 13.4#



#18

1,1-Dichloroethene

Concen: 0.075 ppbv

RT: 2.042 min Scan# 604

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

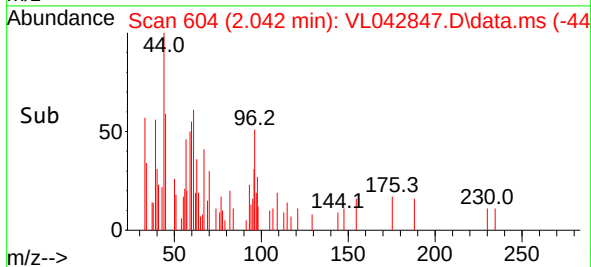
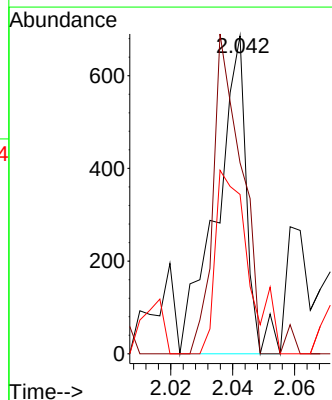
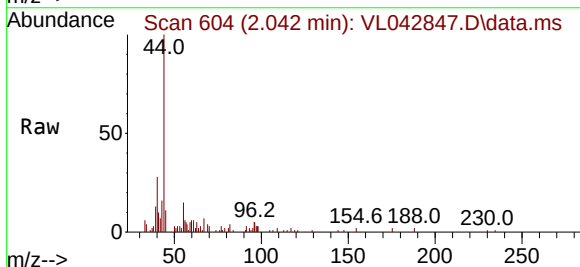
Tgt Ion: 96 Resp: 464

Ion Ratio Lower Upper

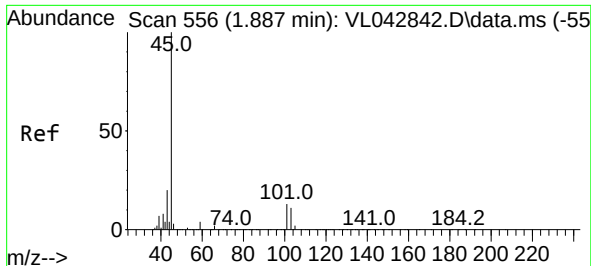
96 100

61 60.1 158.2 237.4#

98 50.1 50.6 76.0#



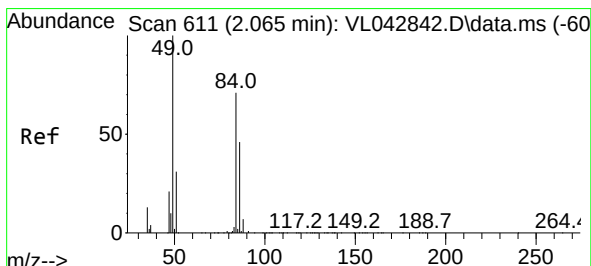
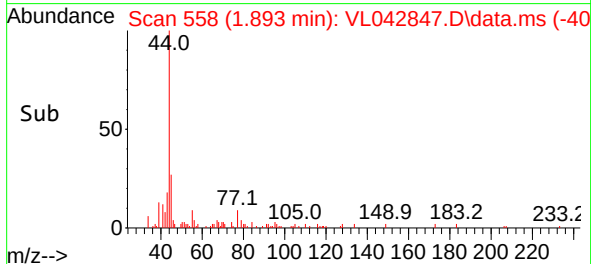
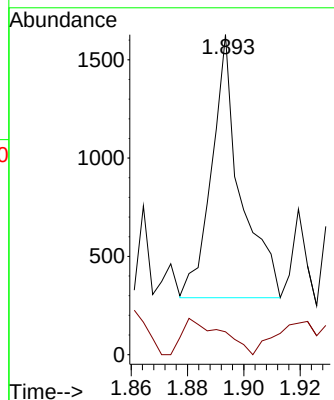
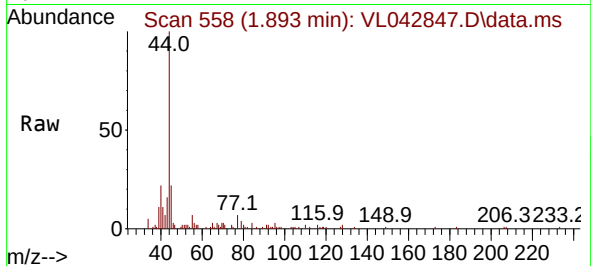




#19  
Isopropyl Alcohol  
Concen: 0.097 ppbv  
RT: 1.893 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

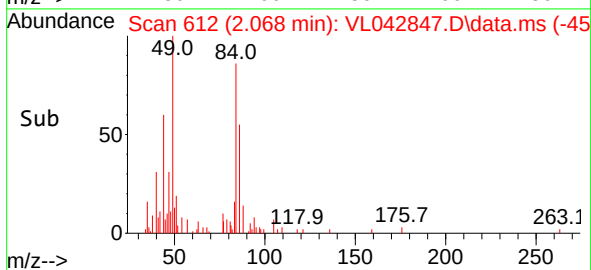
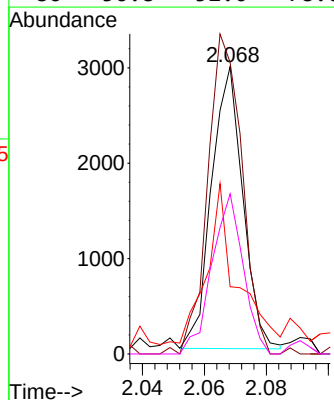
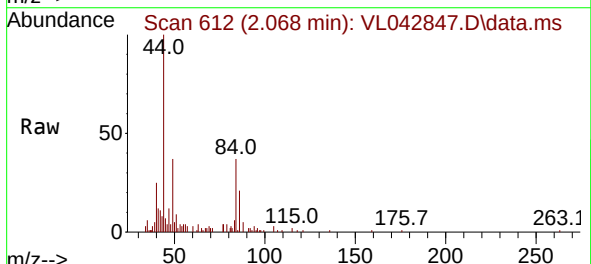
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

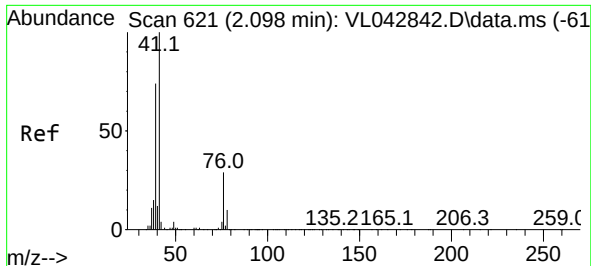
Tgt Ion: 45 Resp: 945  
Ion Ratio Lower Upper  
45 100  
58 18.9 32.7 49.1#



#20  
Methylene Chloride  
Concen: 0.305 ppbv  
RT: 2.068 min Scan# 612  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 84 Resp: 2076  
Ion Ratio Lower Upper  
84 100  
49 103.5 112.3 168.5#  
51 20.0 36.0 54.0#  
86 56.8 52.0 78.0

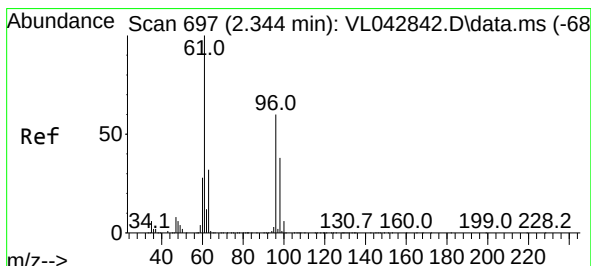
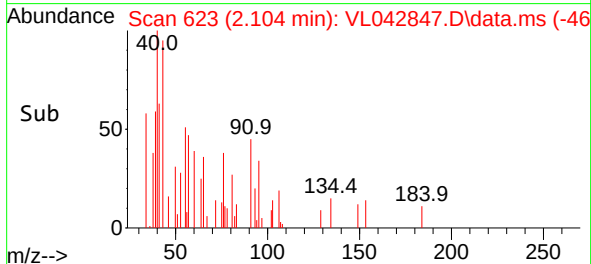
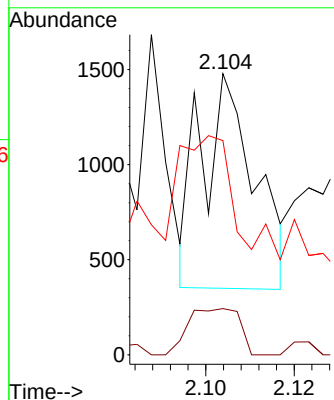
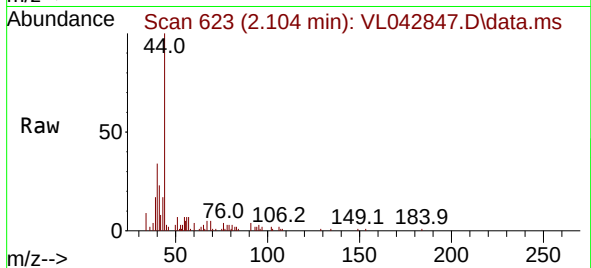




#21  
 Allyl Chloride  
 Concen: 0.083 ppbv  
 RT: 2.104 min Scan# 61  
 Delta R.T. 0.006 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

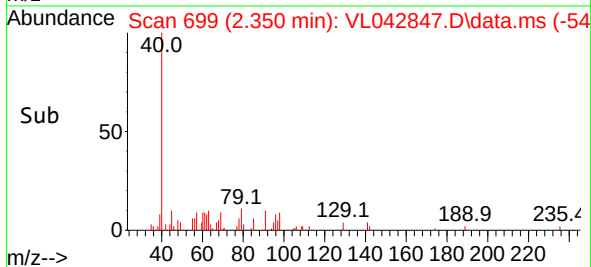
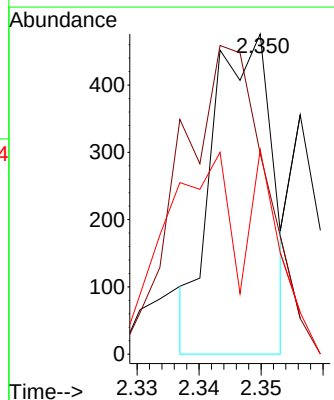
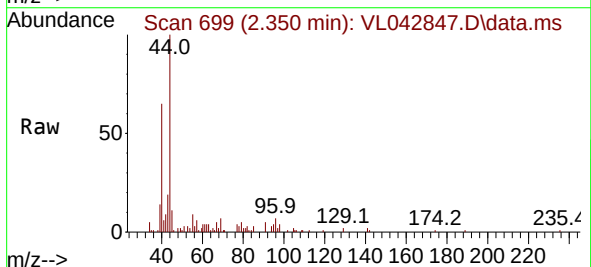
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.03

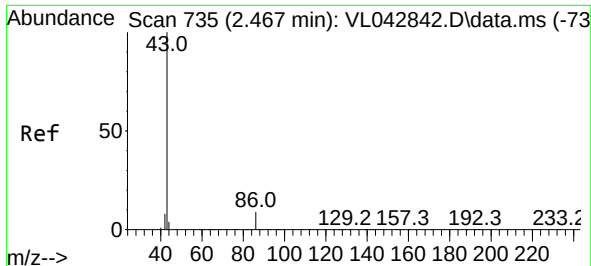
Tgt Ion: 41 Resp: 953  
 Ion Ratio Lower Upper  
 41 100  
 76 26.5 23.9 35.9  
 39 129.5 57.8 86.6#



#22  
 trans-1,2-Dichloroethene  
 Concen: 0.046 ppbv  
 RT: 2.350 min Scan# 699  
 Delta R.T. 0.006 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

Tgt Ion: 96 Resp: 317  
 Ion Ratio Lower Upper  
 96 100  
 61 32.5 132.6 199.0#  
 98 40.8 50.0 75.0#

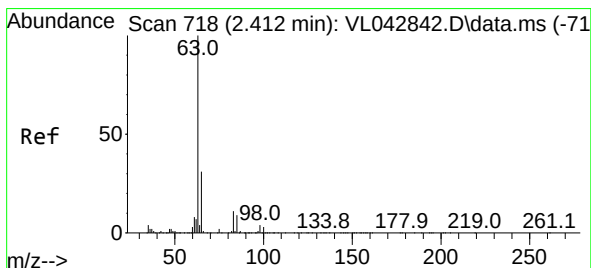
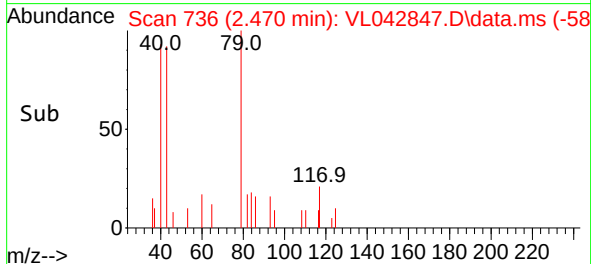
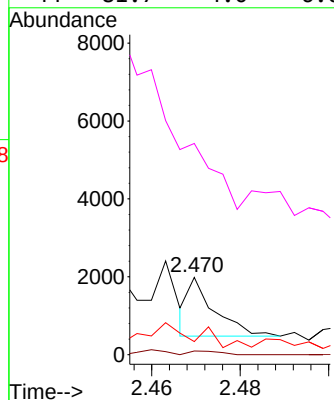
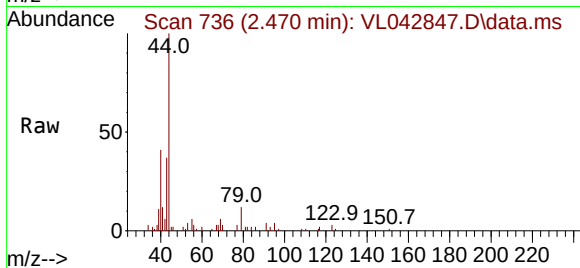




#23  
 Vinyl Acetate  
 Concen: 0.029 ppbv  
 RT: 2.470 min Scan# 718  
 Delta R.T. 0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

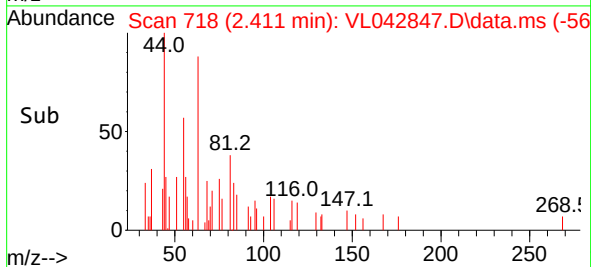
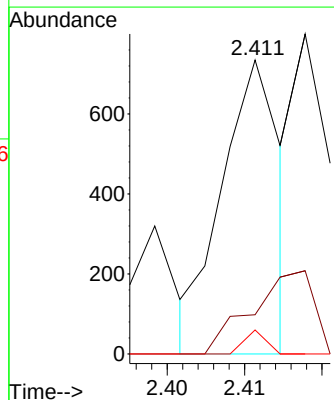
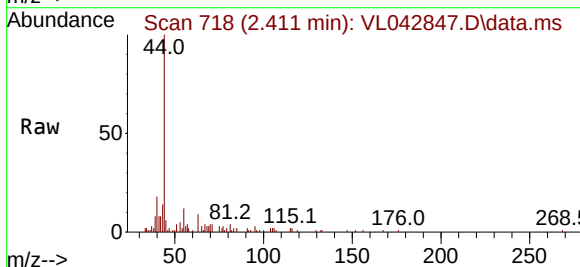
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.03

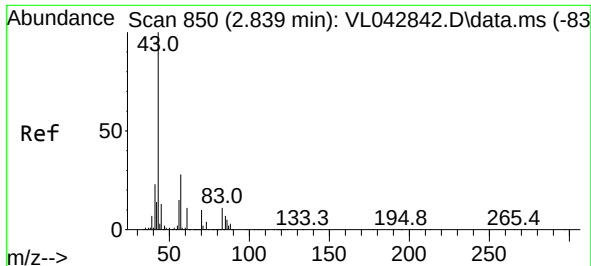
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 629   |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 86 6.3      | 6.6 9.8#    |
| 42 0.0      | 7.0 10.6#   |
| 44 81.7     | 4.0 6.0#    |



#24  
 1,1-Dichloroethane  
 Concen: 0.027 ppbv  
 RT: 2.411 min Scan# 718  
 Delta R.T. -0.000 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

|             |             |
|-------------|-------------|
| Tgt Ion: 63 | Resp: 388   |
| Ion Ratio   | Lower Upper |
| 63 100      |             |
| 98 16.4     | 2.1 6.5#    |
| 100 10.0    | 1.7 5.1#    |





#25

Ethyl Acetate

Concen: 0.003 ppbv

RT: 2.839 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

Tgt Ion: 43 Resp: 126

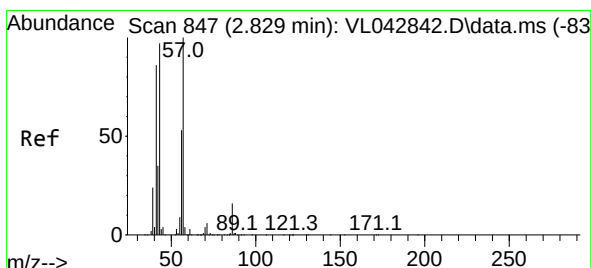
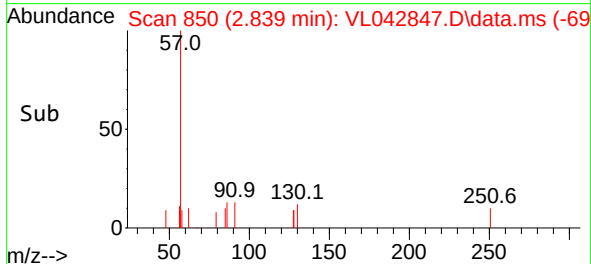
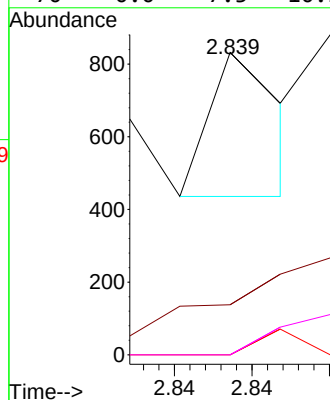
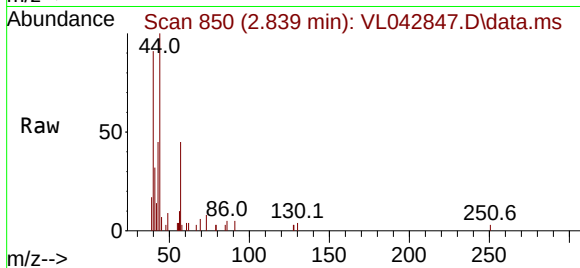
Ion Ratio Lower Upper

43 100

45 268.3 8.1 12.1#

61 0.0 7.4 11.2#

70 0.0 7.3 10.9#



#26

Hexane

Concen: 0.027 ppbv

RT: 2.826 min Scan# 846

Delta R.T. -0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion: 57 Resp: 483

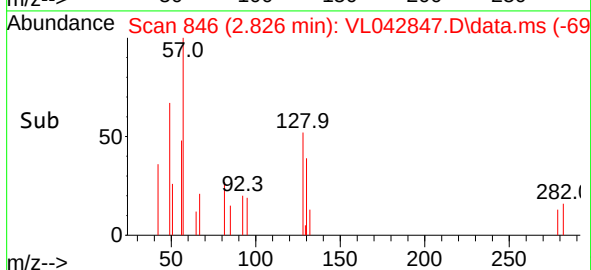
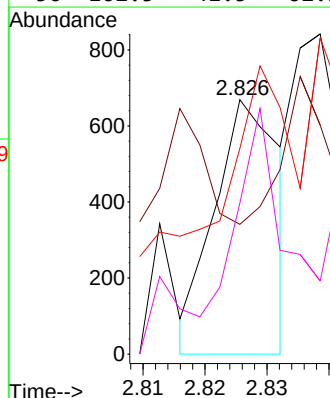
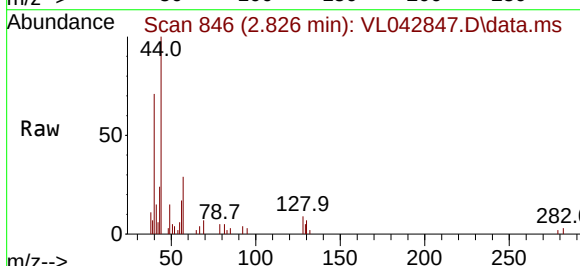
Ion Ratio Lower Upper

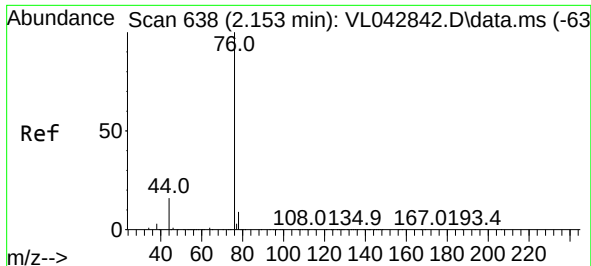
57 100

41 0.0 68.6 103.0#

43 0.0 168.5 252.7#

56 162.5 41.5 62.3#

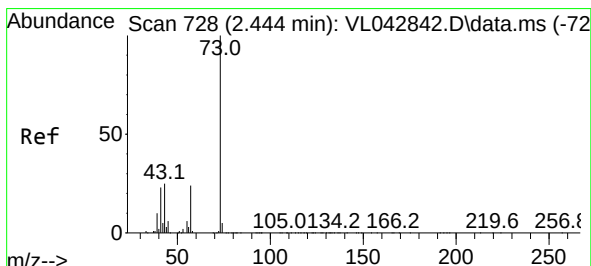
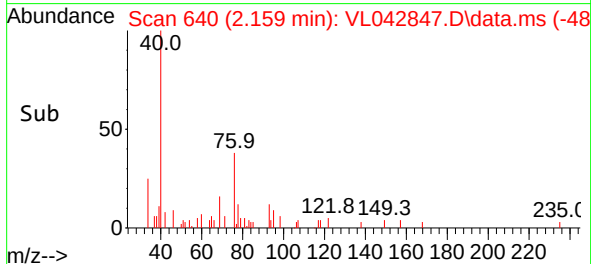
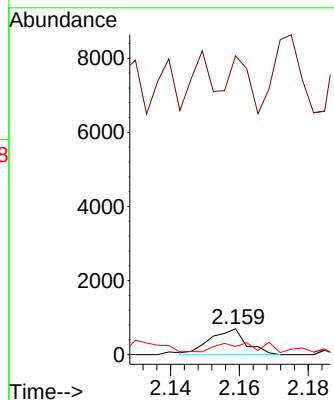
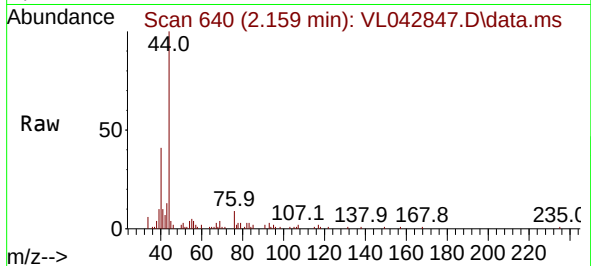




#27  
Carbon Disulfide  
Concen: 0.029 ppbv  
RT: 2.159 min Scan# 640  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

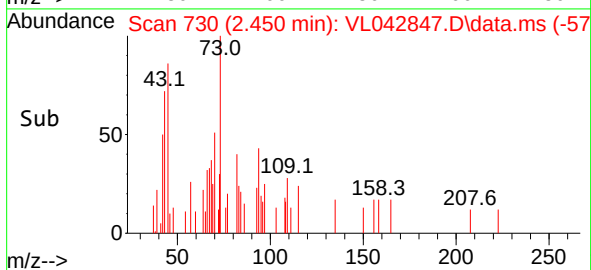
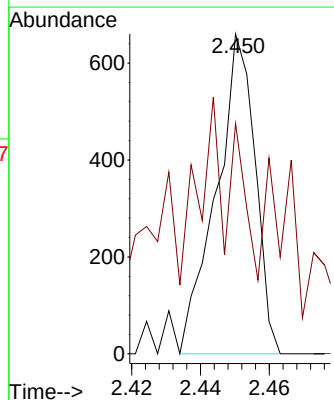
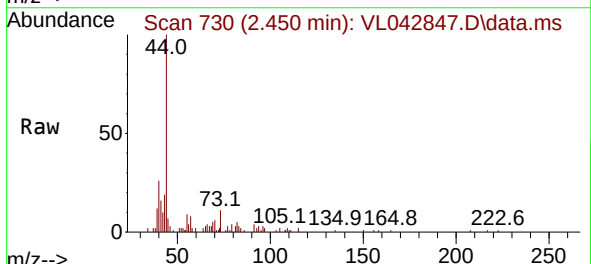
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

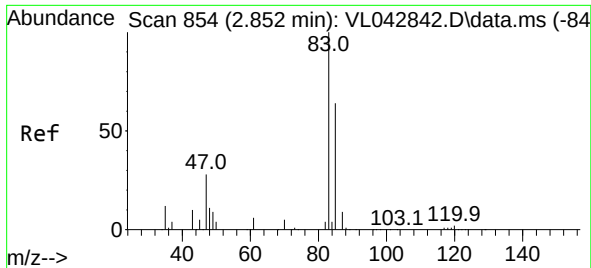
Tgt Ion: 76 Resp: 509  
Ion Ratio Lower Upper  
76 100  
44 2370.7 15.9 23.9#  
78 81.3 9.5 14.3#



#28  
Methyl tert-Butyl Ether  
Concen: 0.056 ppbv  
RT: 2.450 min Scan# 730  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 73 Resp: 517  
Ion Ratio Lower Upper  
73 100  
57 159.0 21.6 32.4#

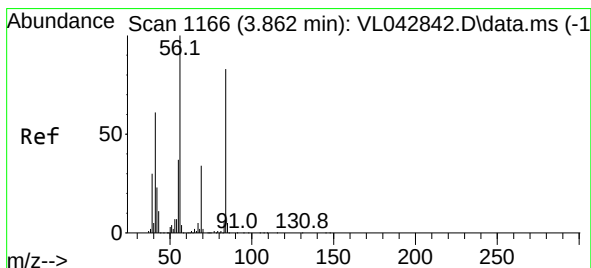
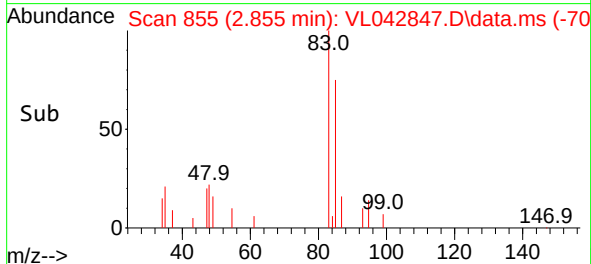
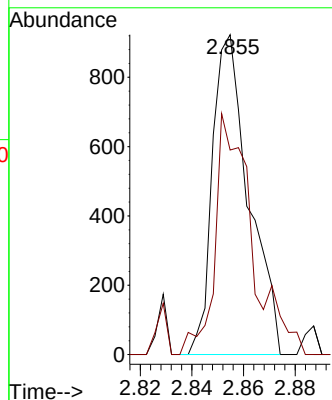
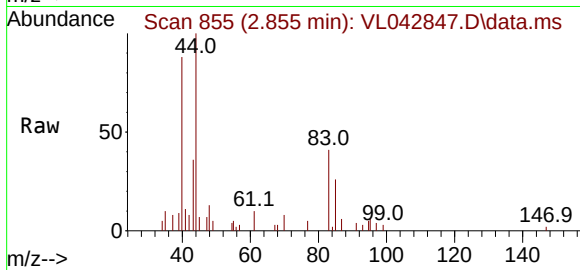




#29  
Chloroform  
Concen: 0.035 ppbv  
RT: 2.855 min Scan# 855  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

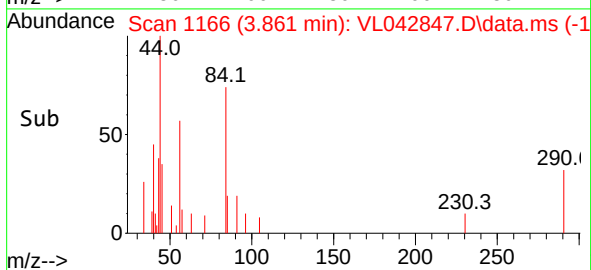
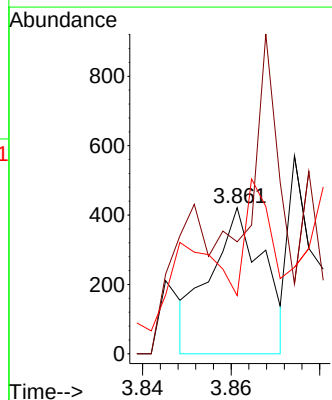
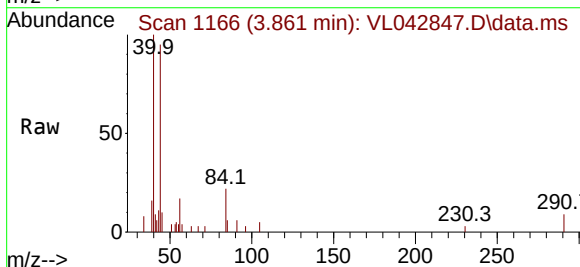
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

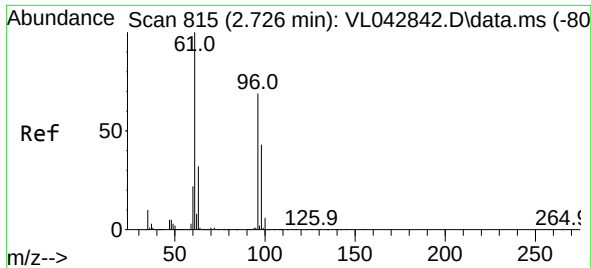
Tgt Ion: 83 Resp: 902  
Ion Ratio Lower Upper  
83 100  
85 63.9 51.1 76.7



#30  
Cyclohexane  
Concen: 0.022 ppbv  
RT: 3.861 min Scan# 1166  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 84 Resp: 352  
Ion Ratio Lower Upper  
84 100  
56 309.9 98.8 148.2#  
41 239.8 61.3 91.9#

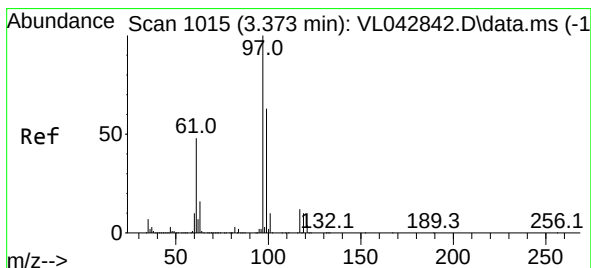
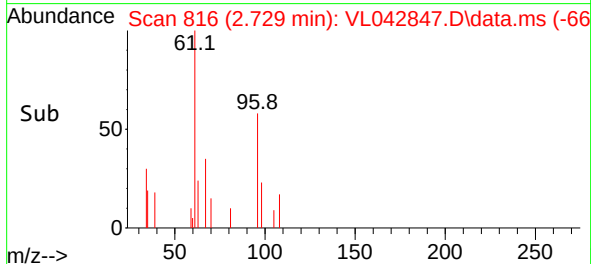
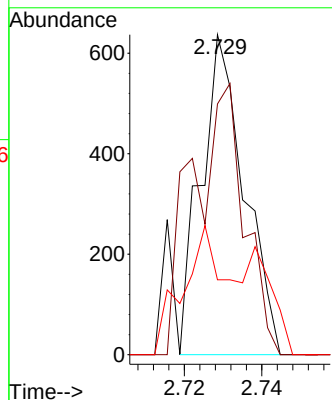
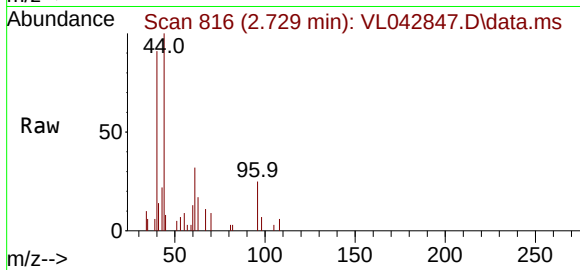




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.027 ppbv  
 RT: 2.729 min Scan# 815  
 Delta R.T. 0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

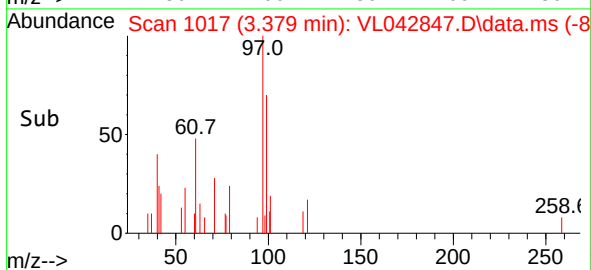
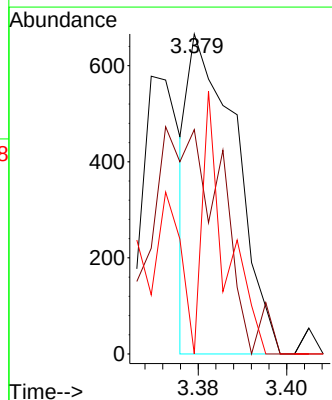
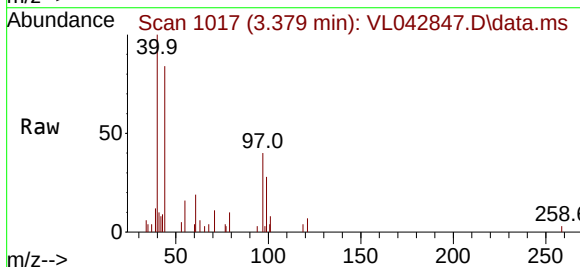
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03

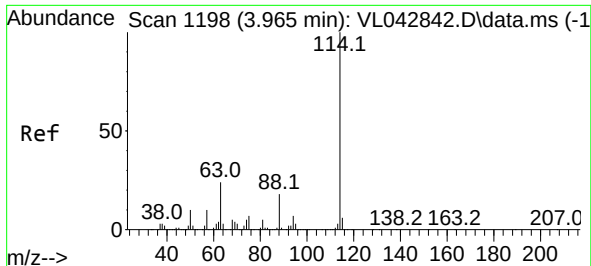
|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 61 | Resp: | 497        |
| Ion Ratio   | Lower | Upper      |
| 61          | 100   |            |
| 96          | 78.3  | 55.0 82.6  |
| 98          | 9.4   | 34.3 51.5# |



#32  
 1,1,1-Trichloroethane  
 Concen: 0.018 ppbv  
 RT: 3.379 min Scan# 1017  
 Delta R.T. 0.006 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

|             |       |            |
|-------------|-------|------------|
| Tgt Ion: 97 | Resp: | 493        |
| Ion Ratio   | Lower | Upper      |
| 97          | 100   |            |
| 99          | 0.0   | 51.0 76.6# |
| 61          | 82.6  | 38.0 57.0# |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.968 min Scan# 1198

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

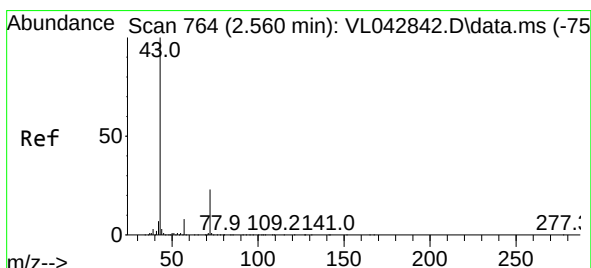
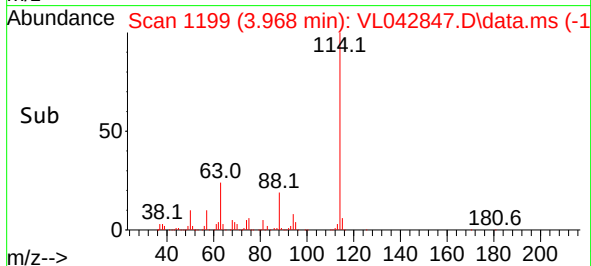
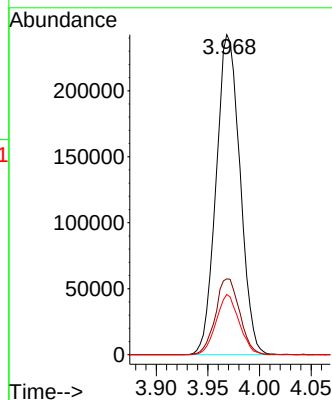
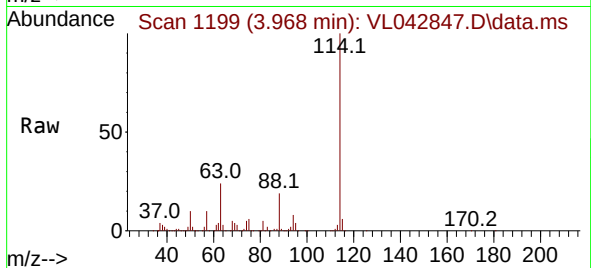
Tgt Ion:114 Resp: 390076

Ion Ratio Lower Upper

114 100

63 24.1 19.7 29.5

88 18.1 14.4 21.6



#34

2-Butanone

Concen: 0.016 ppbv

RT: 2.567 min Scan# 766

Delta R.T. 0.006 min

Lab File: VL042847.D

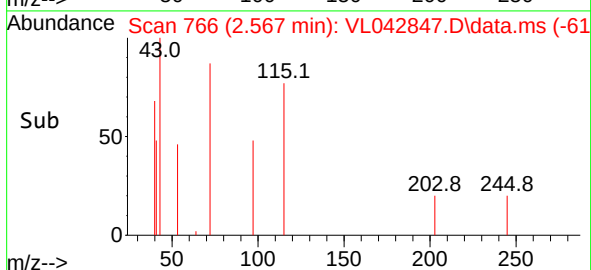
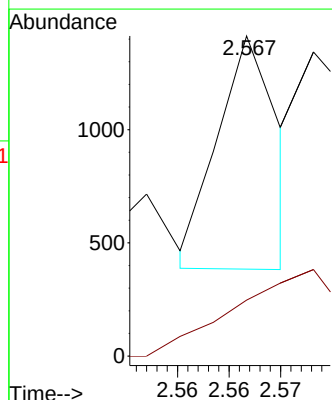
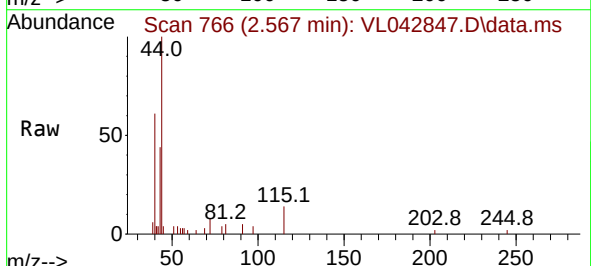
Acq: 13 Aug 2025 11:30

Tgt Ion: 43 Resp: 422

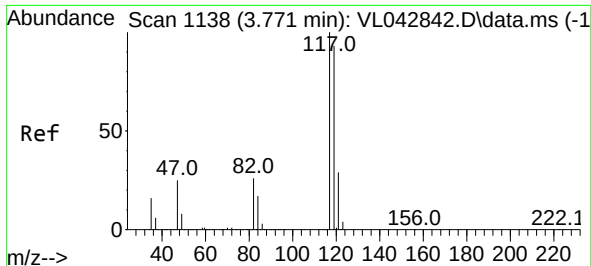
Ion Ratio Lower Upper

43 100

72 0.0 18.6 28.0#



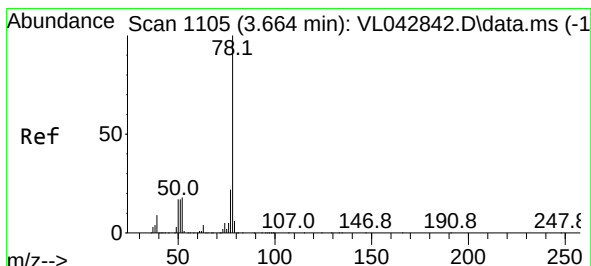
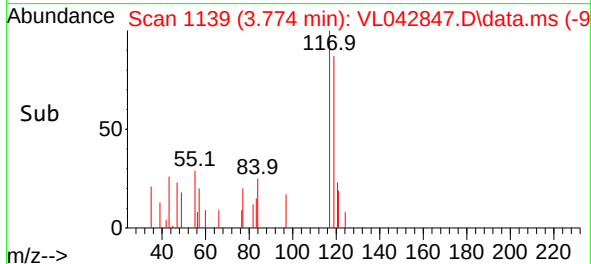
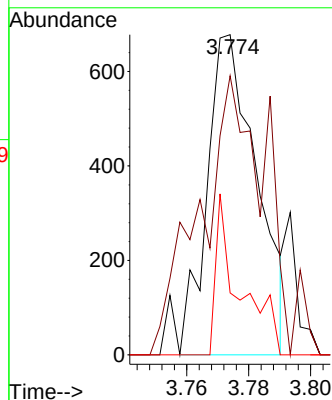
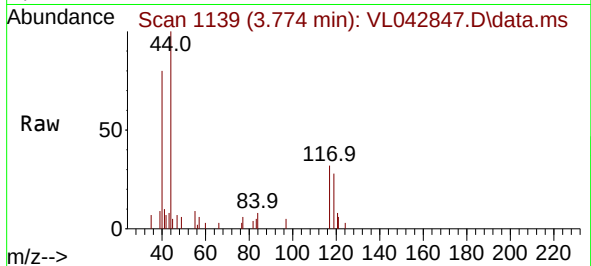




#35  
Carbon Tetrachloride  
Concen: 0.028 ppbv  
RT: 3.774 min Scan# 1138  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

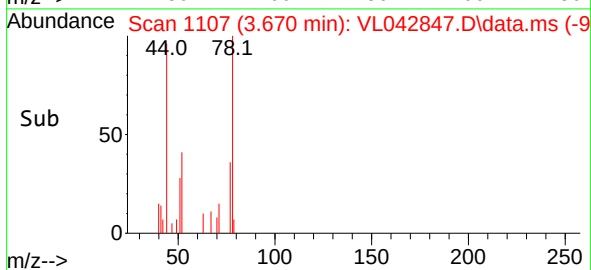
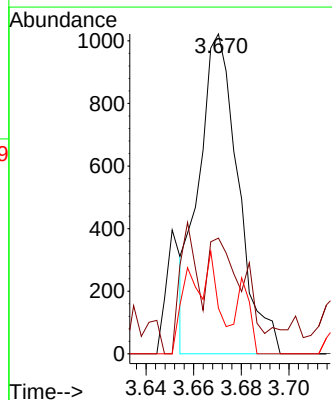
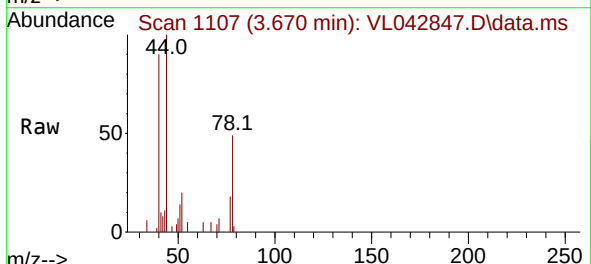
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

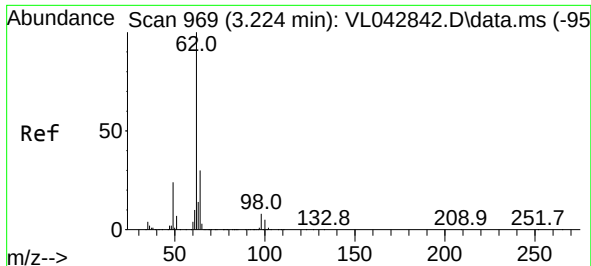
Tgt Ion:117 Resp: 756  
Ion Ratio Lower Upper  
117 100  
119 59.0 74.7 112.1#  
121 19.3 23.2 34.8#



#36  
Benzene  
Concen: 0.032 ppbv  
RT: 3.670 min Scan# 1107  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 78 Resp: 1185  
Ion Ratio Lower Upper  
78 100  
77 26.8 17.7 26.5#  
50 13.4 13.9 20.9#





#37

1,2-Dichloroethane

Concen: 0.041 ppbv

RT: 3.227 min Scan# 91

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA\_L

ClientSampleId :

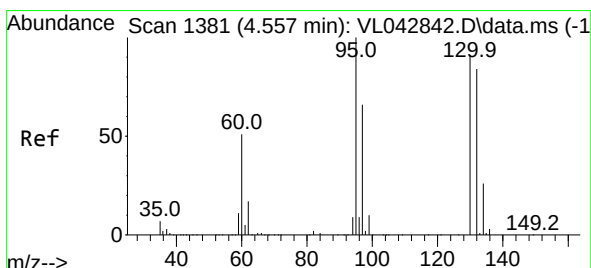
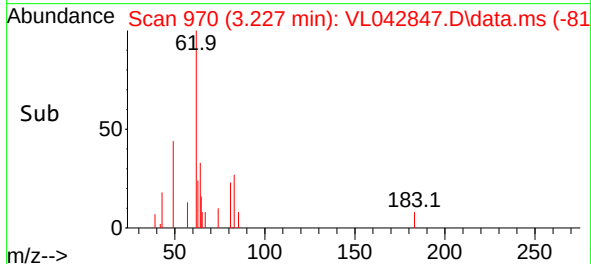
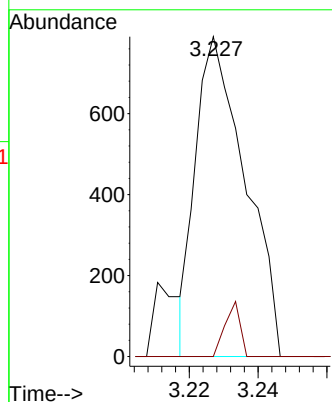
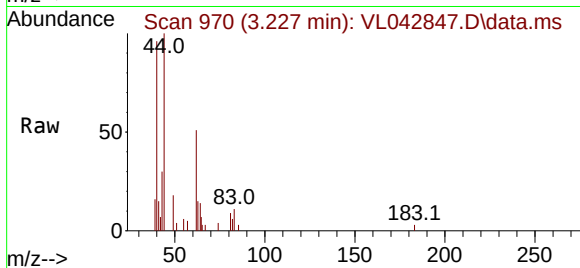
VSTDIC0.03

Tgt Ion: 62 Resp: 792

Ion Ratio Lower Upper

62 100

98 5.2 5.9 8.9#



#38

Trichloroethene

Concen: 0.021 ppbv

RT: 4.560 min Scan# 1382

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion:130 Resp: 363

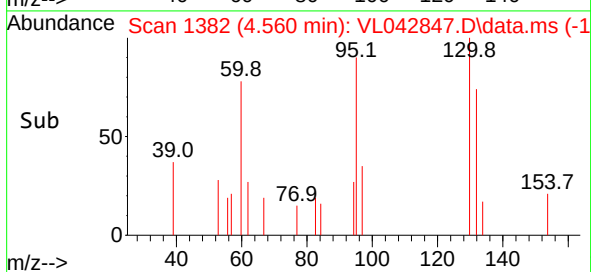
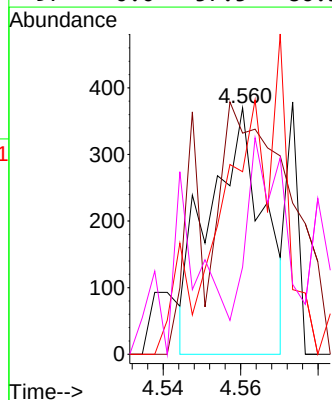
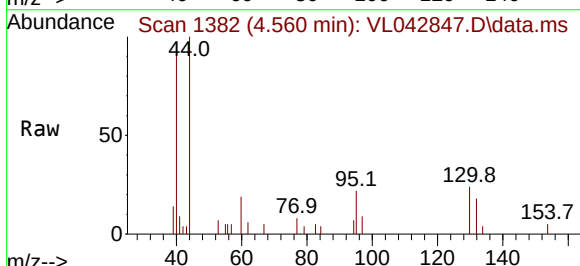
Ion Ratio Lower Upper

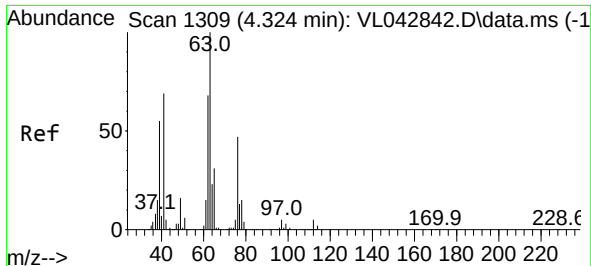
130 100

95 77.9 87.6 131.4#

132 35.9 73.8 110.8#

97 0.0 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 6.881 ppbv

RT: 3.968 min Scan# 1199

Delta R.T. -0.356 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC0.03

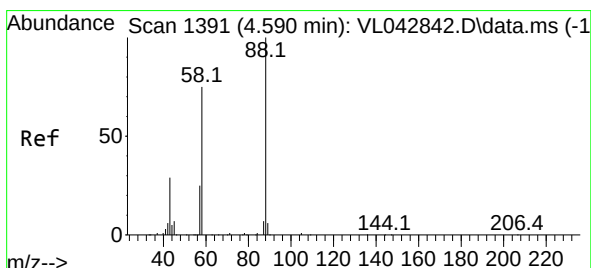
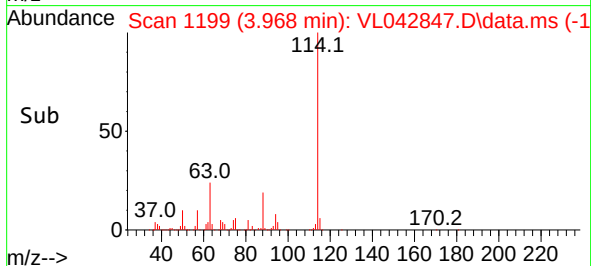
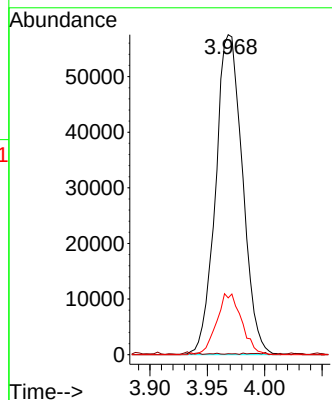
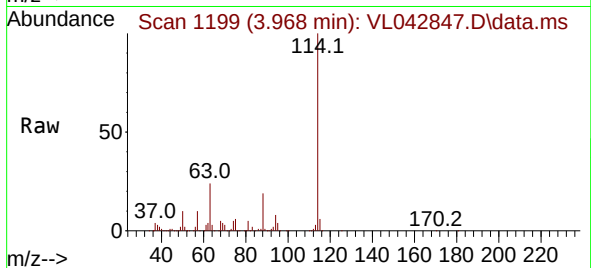
Tgt Ion: 63 Resp: 93873

Ion Ratio Lower Upper

63 100

41 0.2 55.0 82.4#

62 17.7 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.016 ppbv

RT: 4.641 min Scan# 1407

Delta R.T. 0.052 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Tgt Ion: 88 Resp: 105

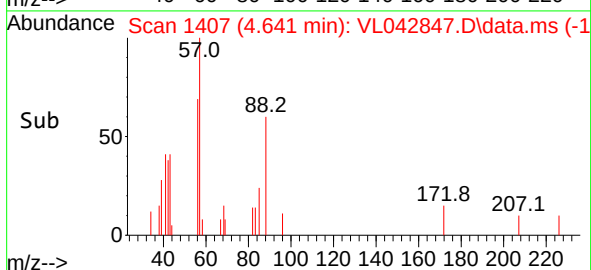
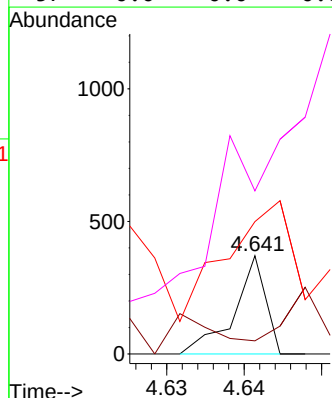
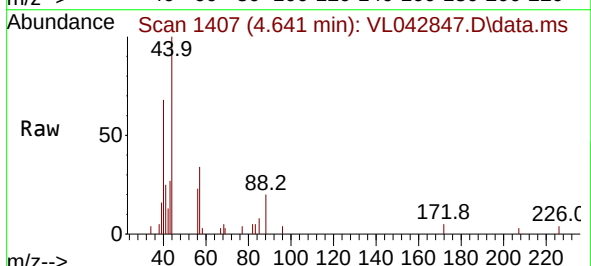
Ion Ratio Lower Upper

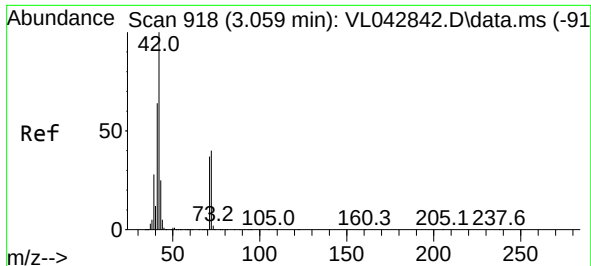
88 100

58 239.0 53.8 80.6#

43 781.0 22.8 34.2#

57 0.0 0.0 0.0

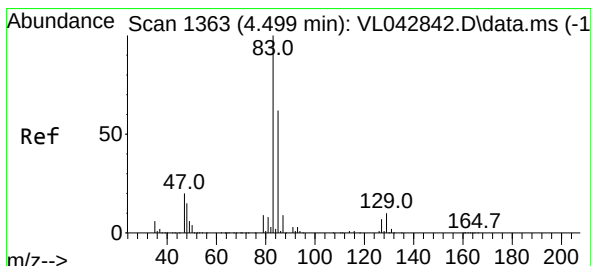
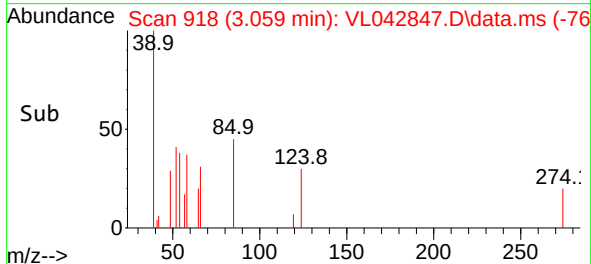
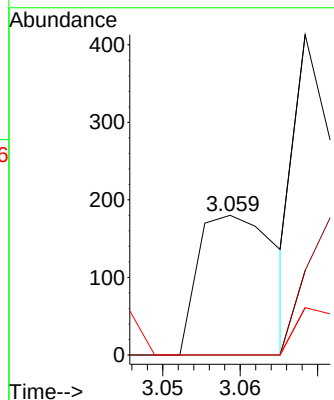
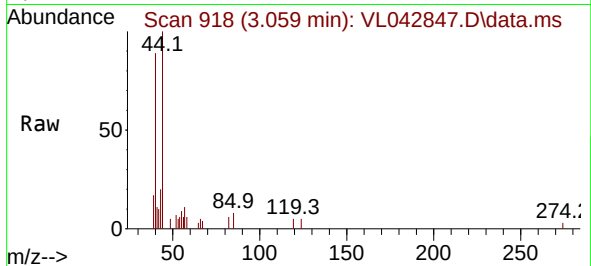




#41  
Tetrahydrofuran  
Concen: 0.009 ppbv  
RT: 3.059 min Scan# 918  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

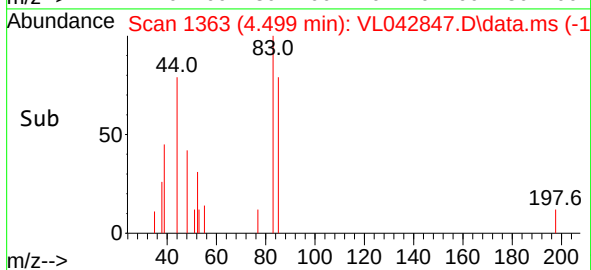
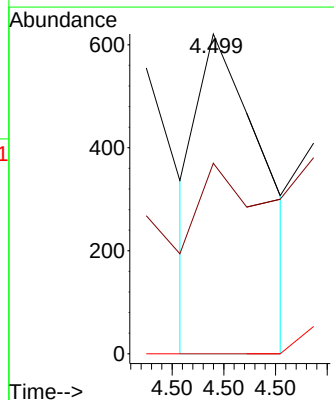
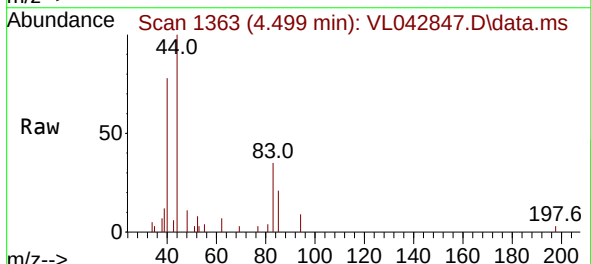
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

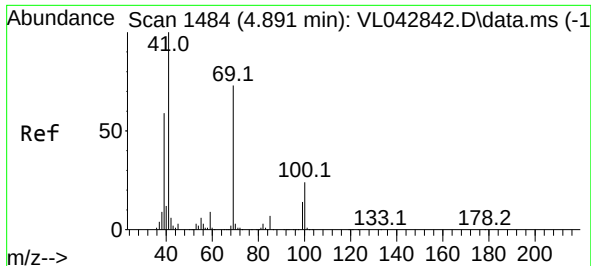
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 42    | Resp: | 127   |
| Ion Ratio | Lower | Upper |       |
| 42        | 100   |       |       |
| 72        | 0.0   | 32.6  | 48.8# |
| 71        | 0.0   | 30.0  | 45.0# |



#42  
Bromodichloromethane  
Concen: 0.009 ppbv  
RT: 4.499 min Scan# 1363  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 83    | Resp: | 271  |
| Ion Ratio | Lower | Upper |      |
| 83        | 100   |       |      |
| 85        | 56.1  | 49.8  | 74.8 |
| 127       | 0.0   | 5.8   | 8.6# |

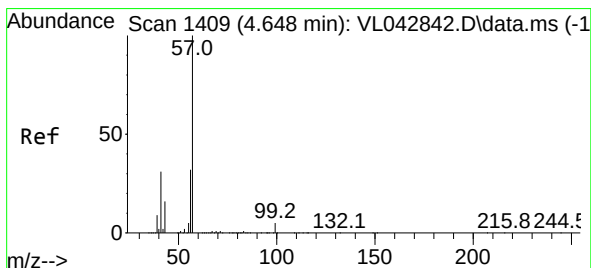
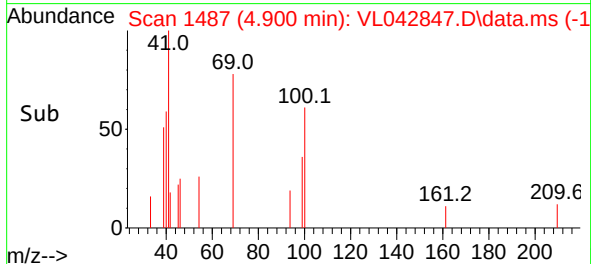
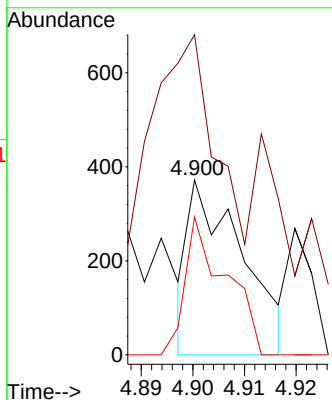
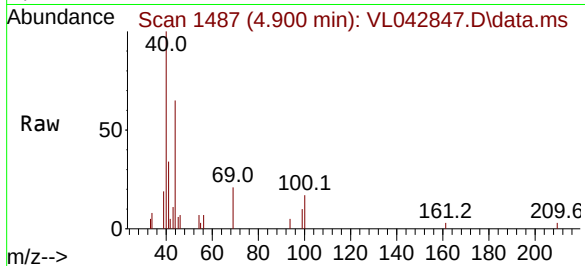




#43  
Methyl Methacrylate  
Concen: 0.018 ppbv  
RT: 4.900 min Scan# 1487  
Delta R.T. 0.009 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

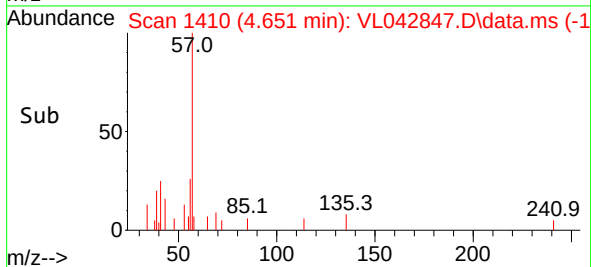
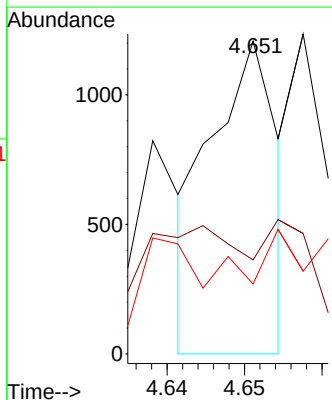
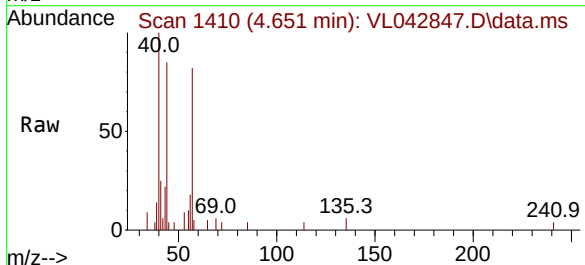
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

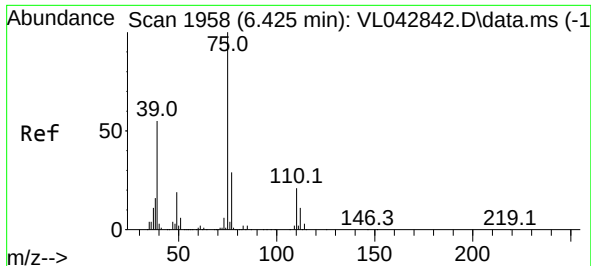
Tgt Ion: 69 Resp: 270  
Ion Ratio Lower Upper  
69 100  
41 466.3 114.6 172.0#  
100 59.6 30.2 45.4#



#44  
2,2,4-Trimethylpentane  
Concen: 0.012 ppbv  
RT: 4.651 min Scan# 1410  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 57 Resp: 726  
Ion Ratio Lower Upper  
57 100  
41 0.0 24.8 37.2#  
56 0.0 25.5 38.3#

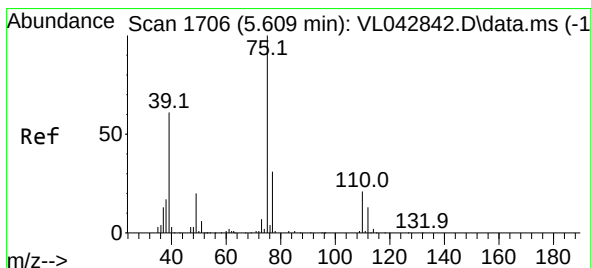
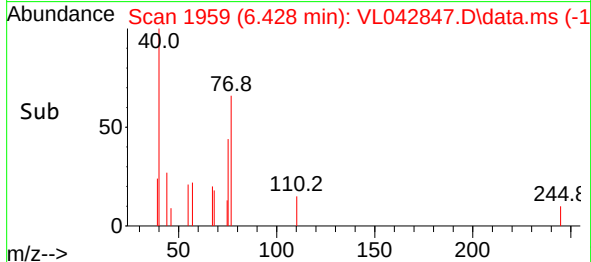
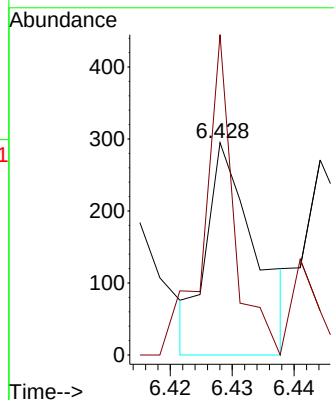
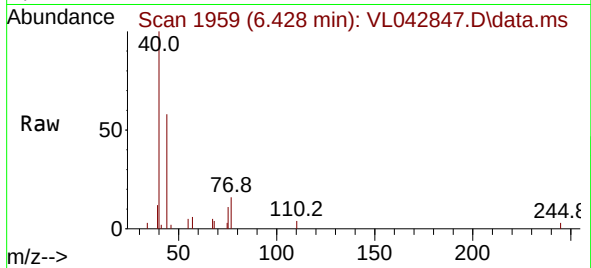




#45  
 t-1,3-Dichloropropene  
 Concen: 0.009 ppbv  
 RT: 6.428 min Scan# 1958  
 Delta R.T. 0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

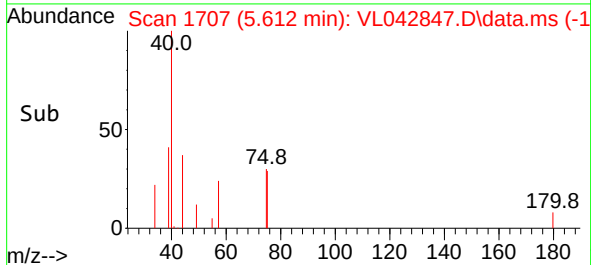
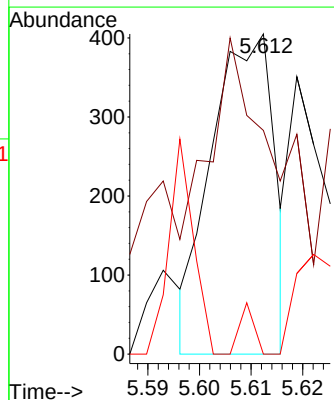
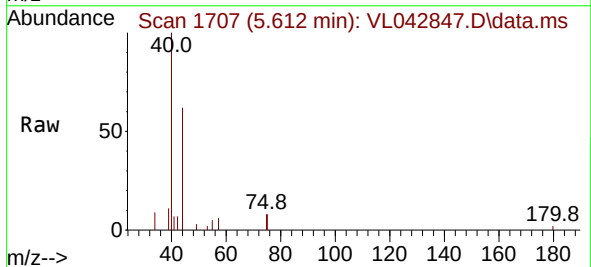
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03

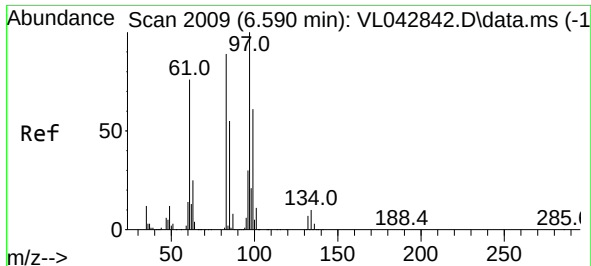
Tgt Ion: 75 Resp: 162  
 Ion Ratio Lower Upper  
 75 100  
 77 150.8 23.8 35.6#



#46  
 cis-1,3-Dichloropropene  
 Concen: 0.016 ppbv  
 RT: 5.612 min Scan# 1707  
 Delta R.T. 0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

Tgt Ion: 75 Resp: 343  
 Ion Ratio Lower Upper  
 75 100  
 39 42.7 48.9 73.3#  
 77 0.0 24.9 37.3#





#47

1,1,2-Trichloroethane

Concen: 0.002 ppbv

RT: 6.593 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.03

Tgt Ion: 97 Resp: 30

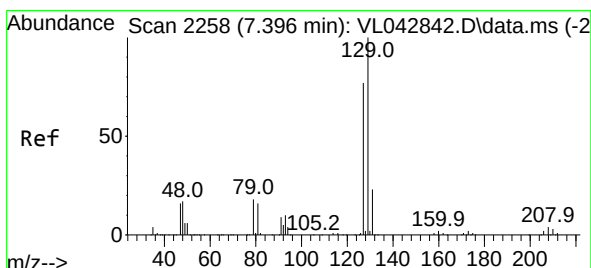
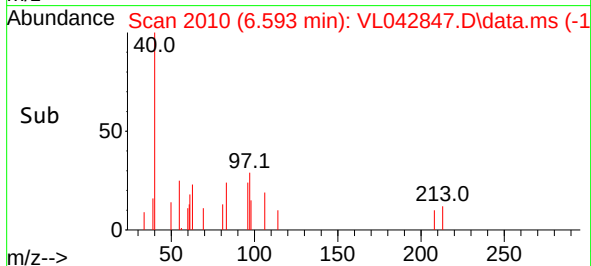
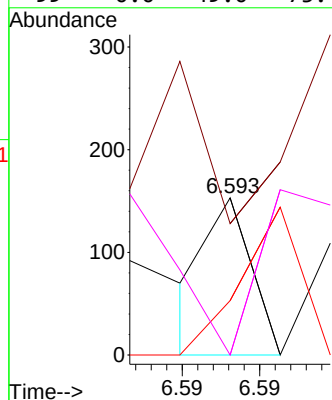
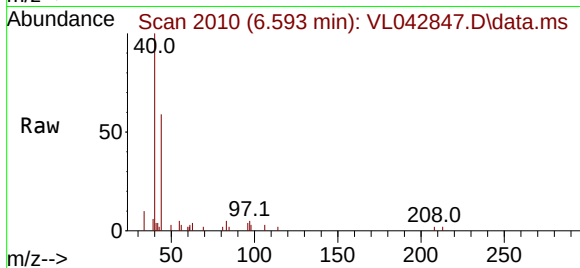
Ion Ratio Lower Upper

97 100

83 0.0 71.0 106.4#

85 34.6 43.6 65.4#

99 0.0 49.0 73.4#



#48

Dibromochloromethane

Concen: 0.025 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042847.D

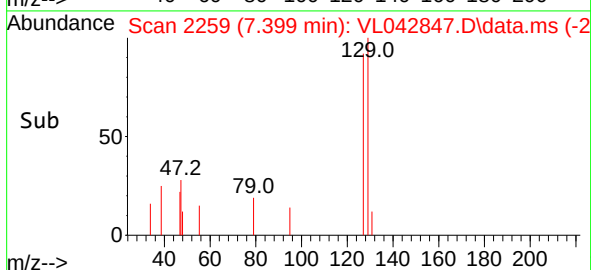
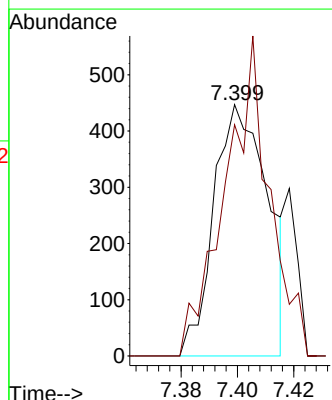
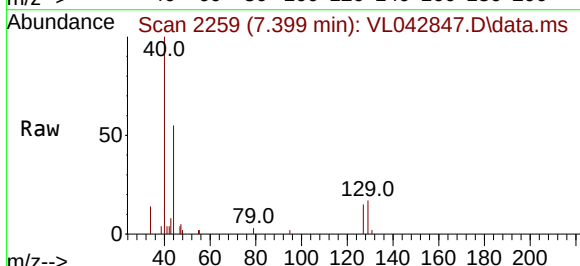
Acq: 13 Aug 2025 11:30

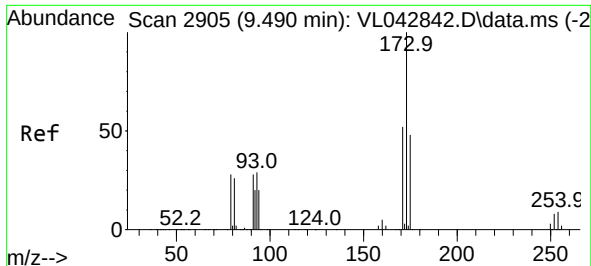
Tgt Ion: 129 Resp: 593

Ion Ratio Lower Upper

129 100

127 104.0 39.4 118.2

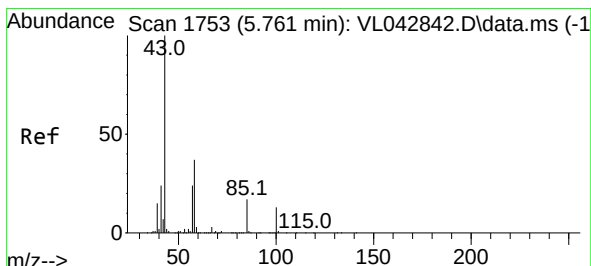
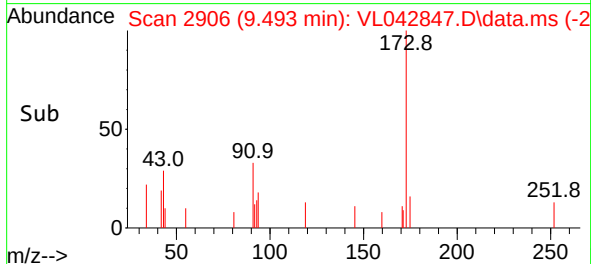
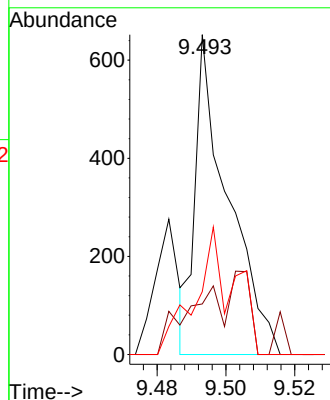
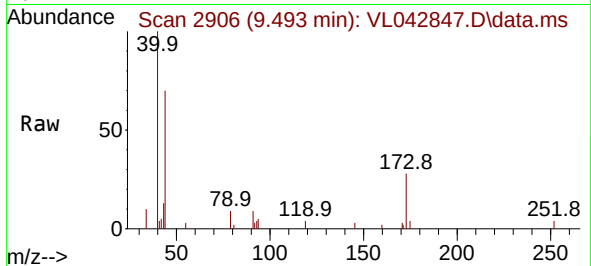




#49  
Bromoform  
Concen: 0.022 ppbv  
RT: 9.493 min Scan# 2905  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

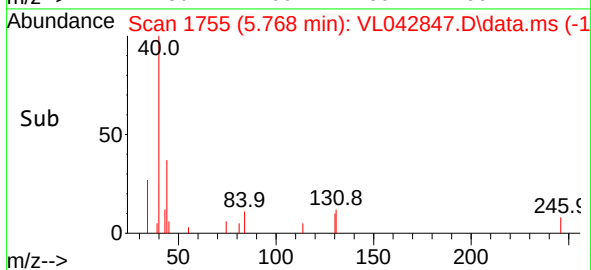
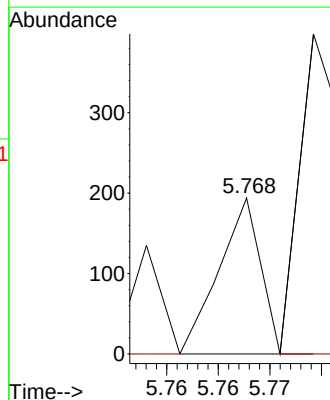
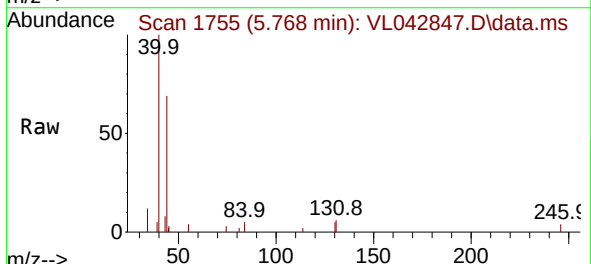
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 431   |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 43.9  | 39.2  | 58.8  |
| 171      | 46.9  | 41.3  | 61.9  |

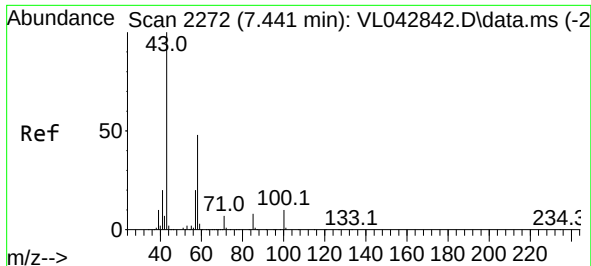


#50  
4-Methyl-2-Pentanone  
Concen: 0.002 ppbv  
RT: 5.768 min Scan# 1755  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 54    |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 0.0   | 29.8  | 44.8# |



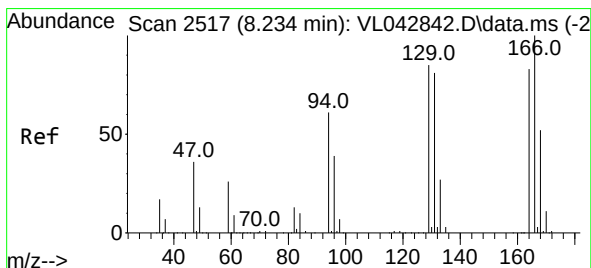
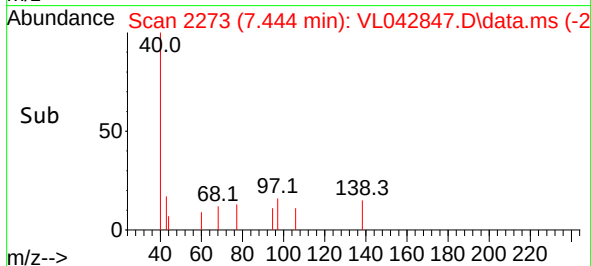
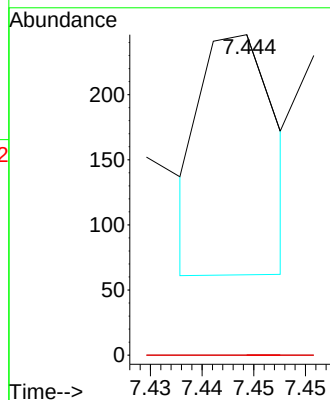
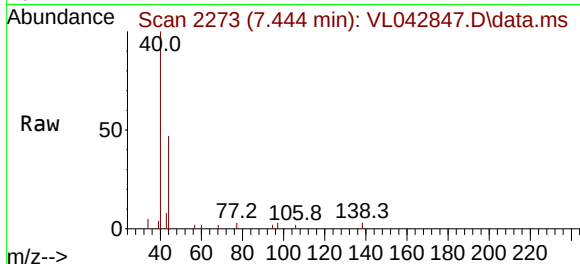




#51  
2-Hexanone  
Concen: 0.003 ppbv  
RT: 7.444 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

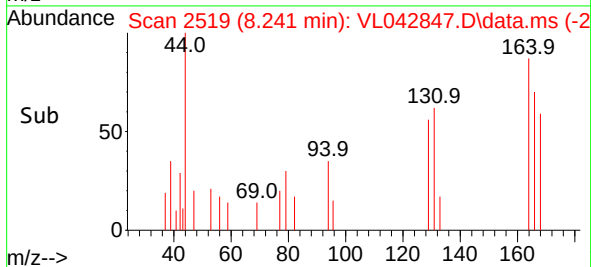
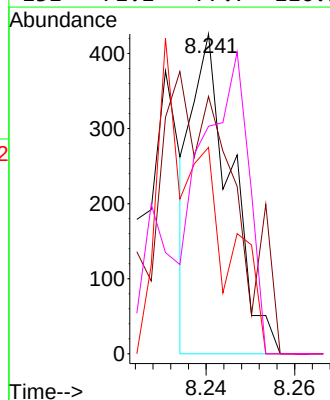
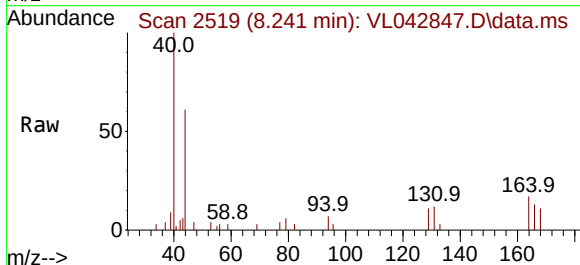
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

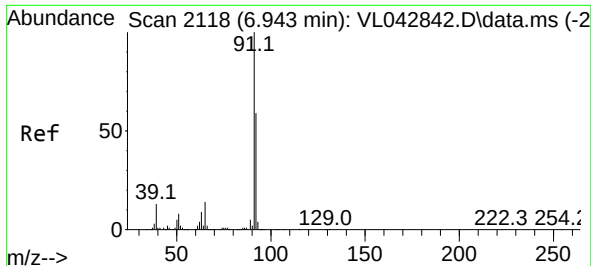
Tgt Ion: 43 Resp: 92  
Ion Ratio Lower Upper  
43 100  
58 0.0 41.0 61.6#  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 0.019 ppbv  
RT: 8.241 min Scan# 2519  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 164 Resp: 262  
Ion Ratio Lower Upper  
164 100  
166 80.5 96.5 144.7#  
129 64.6 81.8 122.6#  
131 71.1 77.7 116.5#

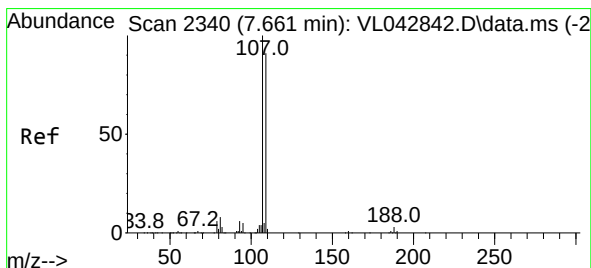
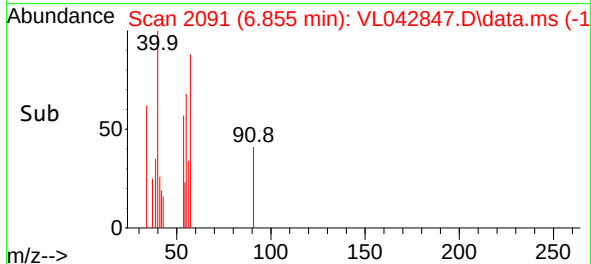
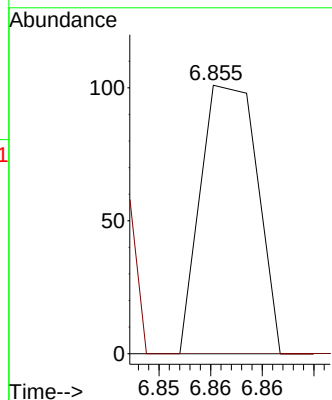
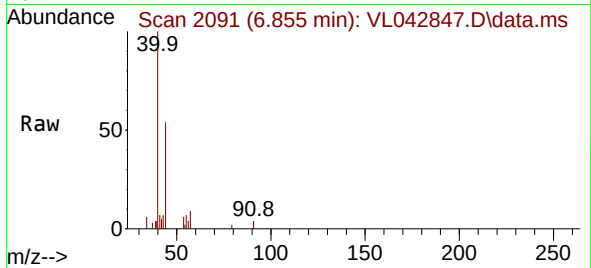




#53  
Toluene  
Concen: 0.001 ppbv  
RT: 6.855 min Scan# 2091  
Delta R.T. -0.088 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

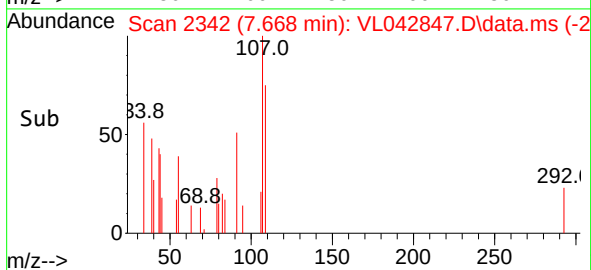
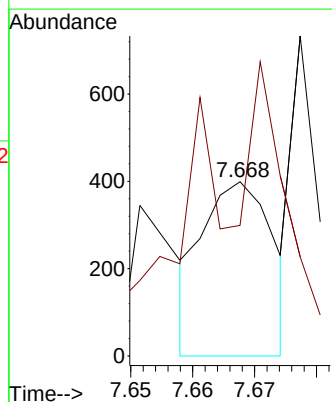
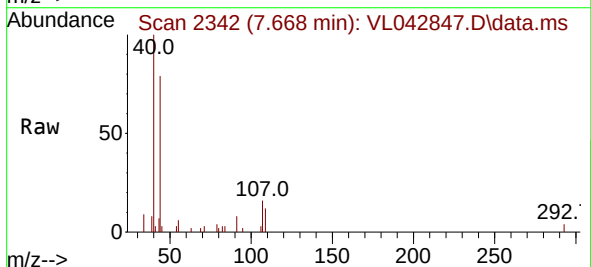
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

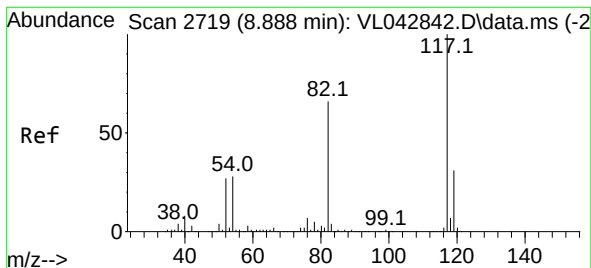
Tgt Ion: 91 Resp: 39  
Ion Ratio Lower Upper  
91 100  
92 59.0 47.8 71.6



#54  
1,2-Dibromoethane  
Concen: 0.015 ppbv  
RT: 7.668 min Scan# 2342  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 107 Resp: 313  
Ion Ratio Lower Upper  
107 100  
109 48.9 72.5 108.7#





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.894 min Scan# 2719

Delta R.T. 0.006 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC0.03

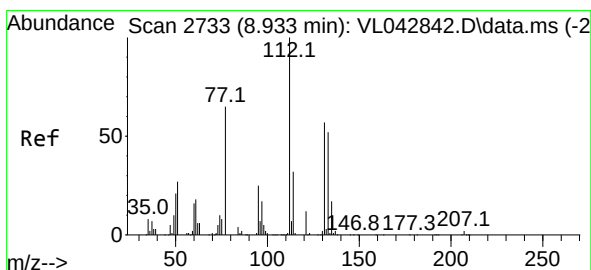
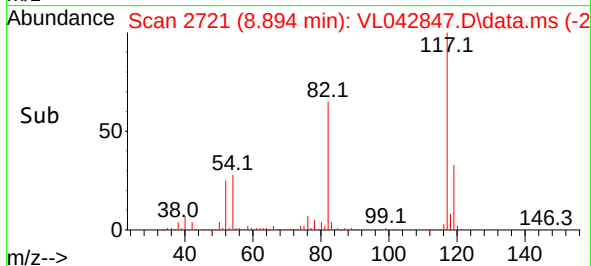
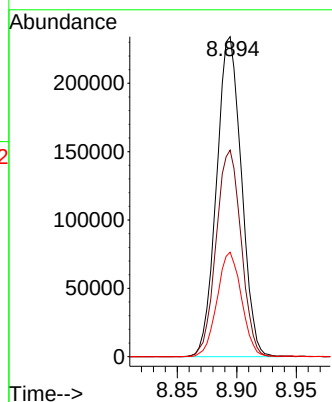
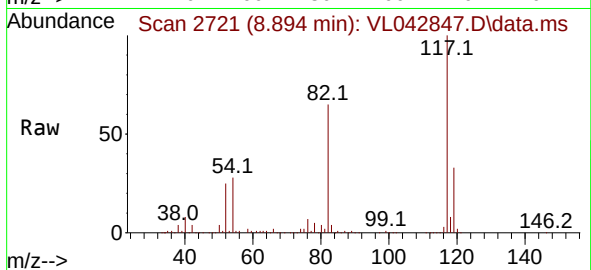
Tgt Ion:117 Resp: 339700

Ion Ratio Lower Upper

117 100

82 65.1 54.6 81.8

119 32.2 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 0.003 ppbv

RT: 8.953 min Scan# 2739

Delta R.T. 0.019 min

Lab File: VL042847.D

Acq: 13 Aug 2025 11:30

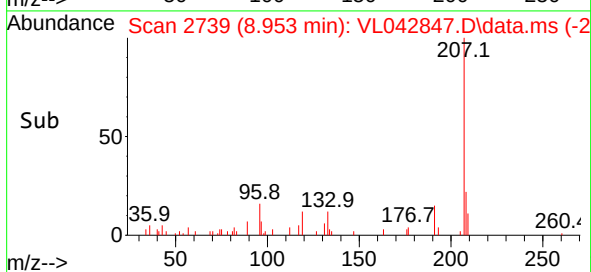
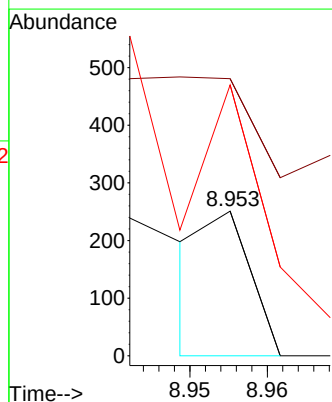
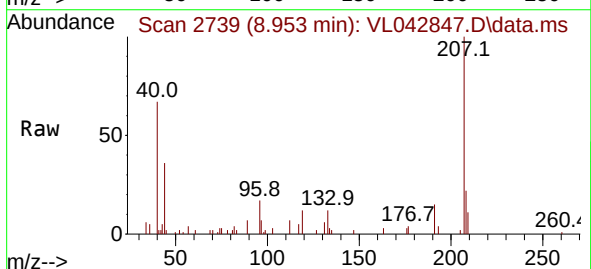
Tgt Ion:131 Resp: 49

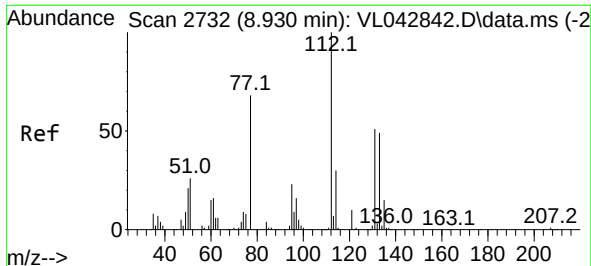
Ion Ratio Lower Upper

131 100

133 0.0 77.4 116.0#

119 0.0 51.2 76.8#

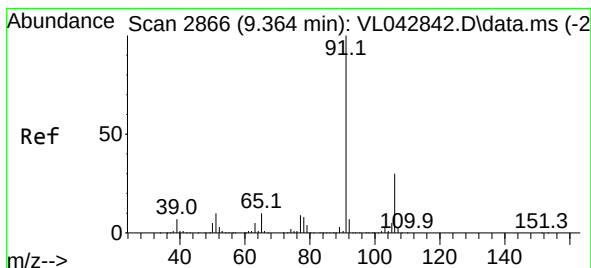
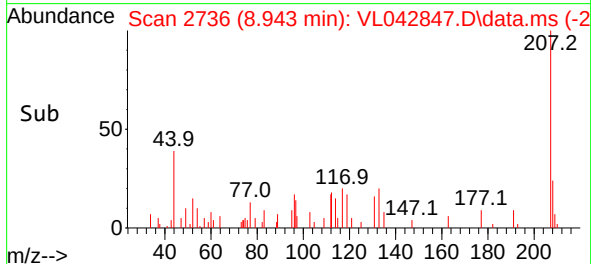
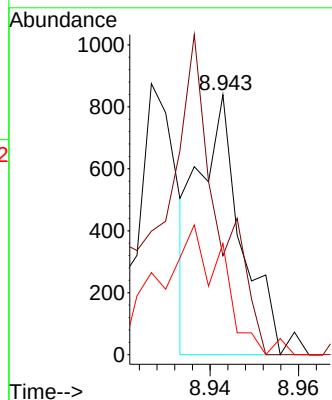
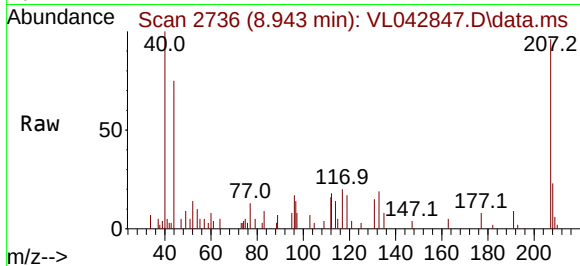




#57  
Chlorobenzene  
Concen: 0.017 ppbv  
RT: 8.943 min Scan# 2117  
Delta R.T. 0.013 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

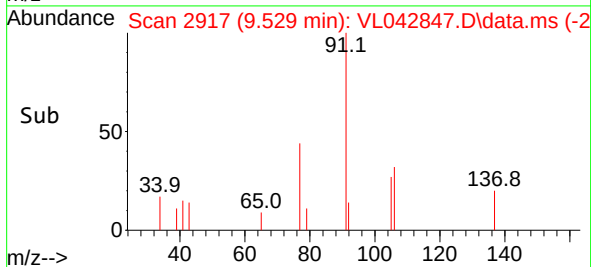
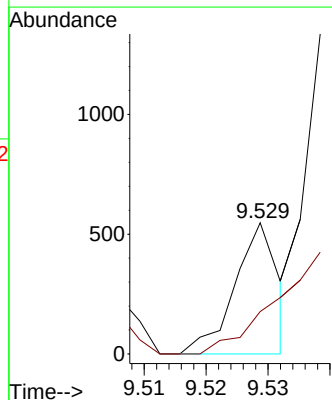
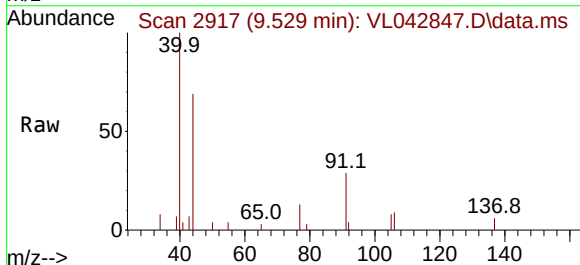
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

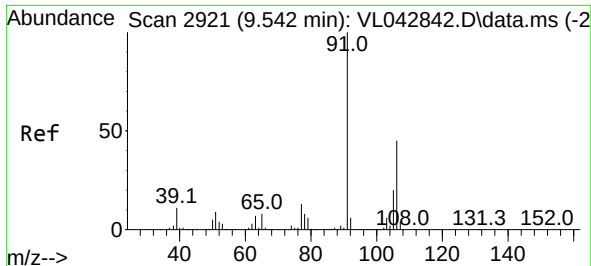
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 112   | Resp: | 561   |
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 77       | 38.0  | 55.5  | 83.3# |
| 114      | 36.6  | 27.2  | 33.2# |



#58  
Ethyl Benzene  
Concen: 0.004 ppbv  
RT: 9.529 min Scan# 2917  
Delta R.T. 0.165 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 267   |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 106      | 32.3  | 23.9  | 35.9  |

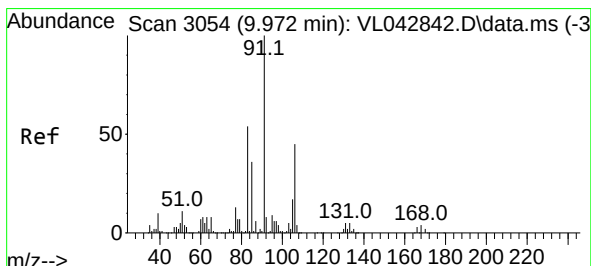
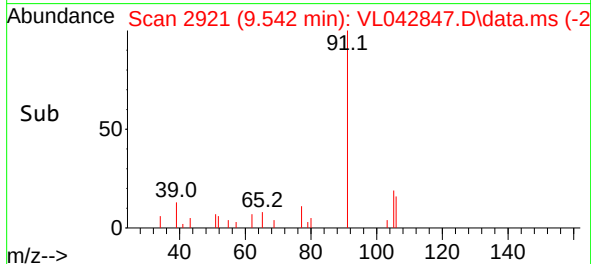
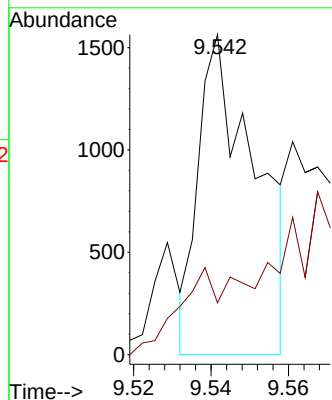
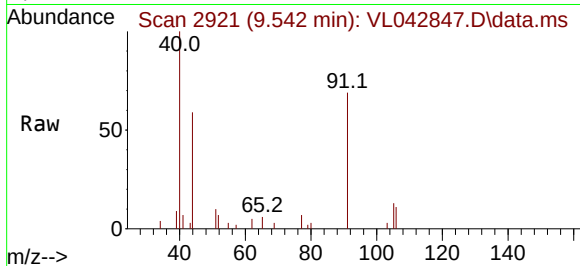




#59  
m/p-Xylene  
Concen: 0.034 ppbv  
RT: 9.542 min Scan# 2921  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

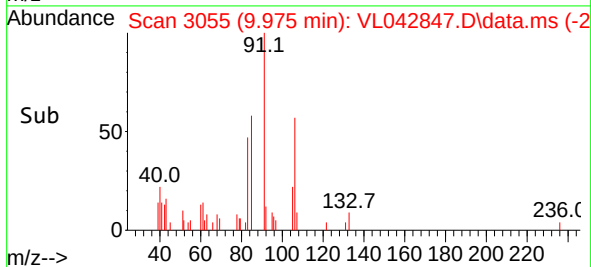
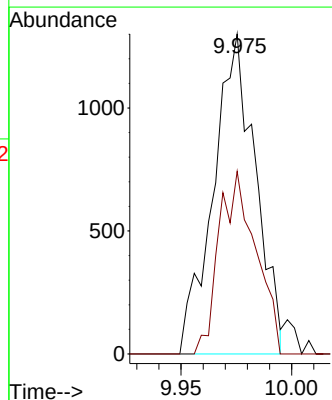
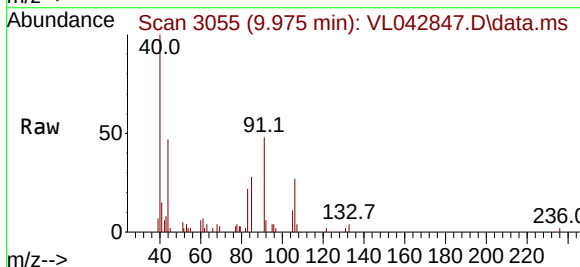
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

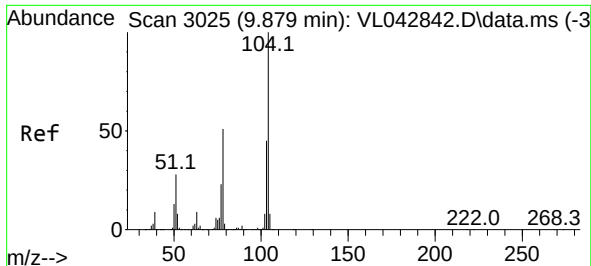
Tgt Ion: 91 Resp: 1589  
Ion Ratio Lower Upper  
91 100  
106 0.0 0.0 0.0



#60  
o-Xylene  
Concen: 0.036 ppbv  
RT: 9.975 min Scan# 3055  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 91 Resp: 1722  
Ion Ratio Lower Upper  
91 100  
106 49.8 21.8 65.4

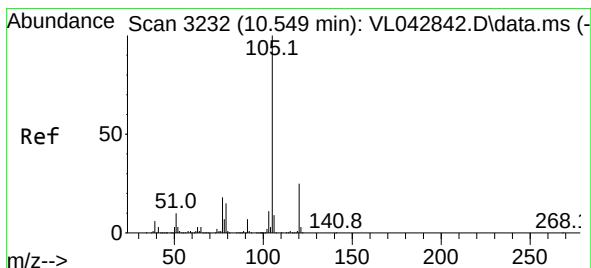
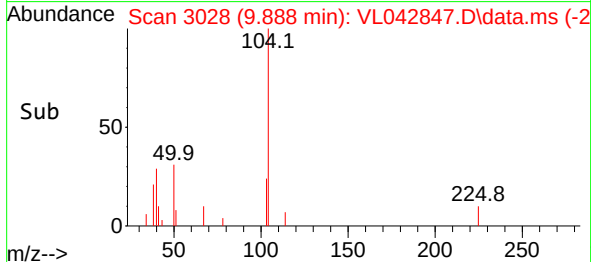
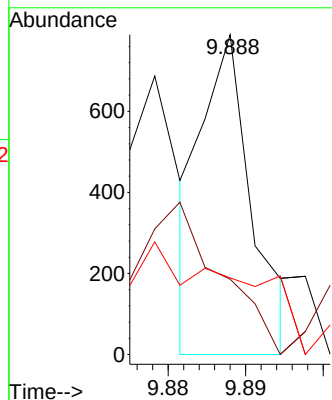
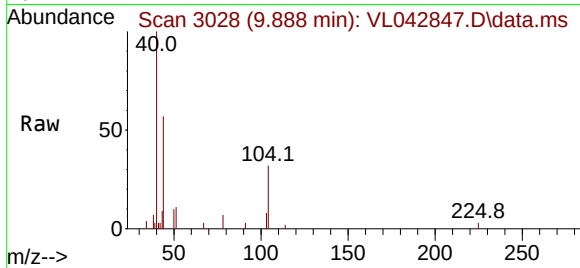




#61  
Styrene  
Concen: 0.016 ppbv  
RT: 9.888 min Scan# 3025  
Delta R.T. 0.009 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

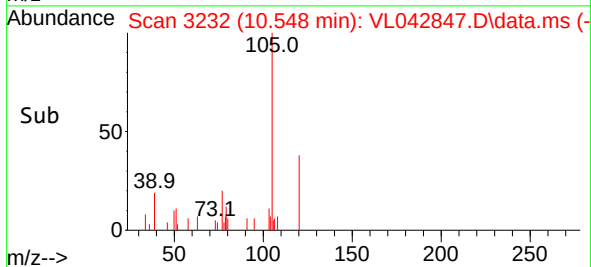
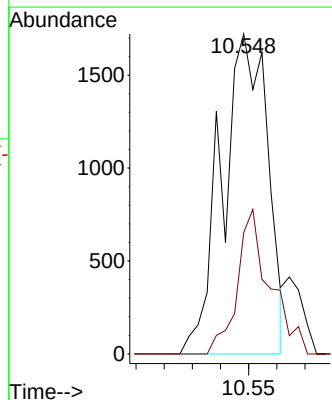
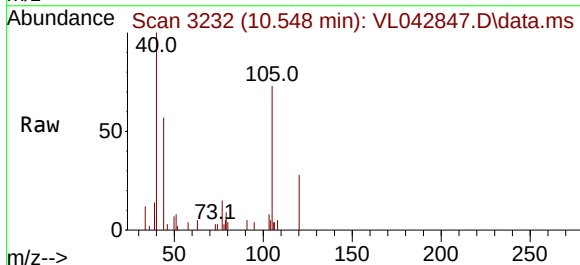
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

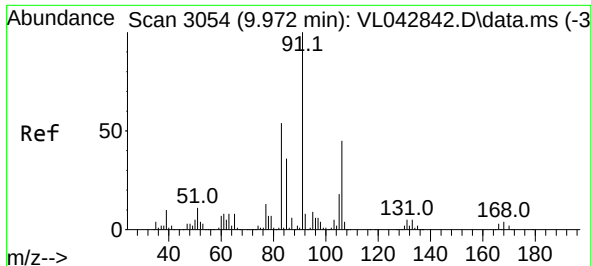
Tgt Ion:104 Resp: 354  
Ion Ratio Lower Upper  
104 100  
78 0.0 40.6 61.0#  
103 0.0 37.7 56.5#



#62  
Isopropylbenzene  
Concen: 0.028 ppbv  
RT: 10.548 min Scan# 3232  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion:105 Resp: 1945  
Ion Ratio Lower Upper  
105 100  
120 32.1 20.6 30.8#

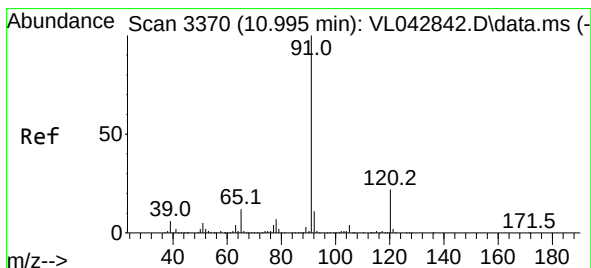
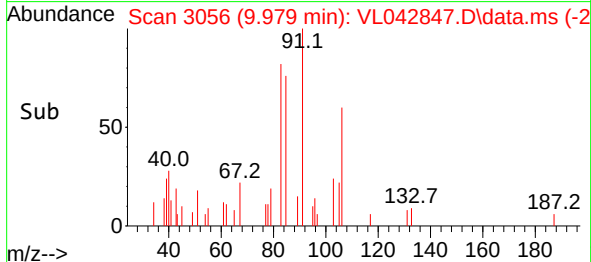
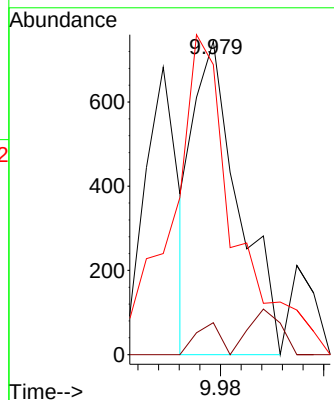
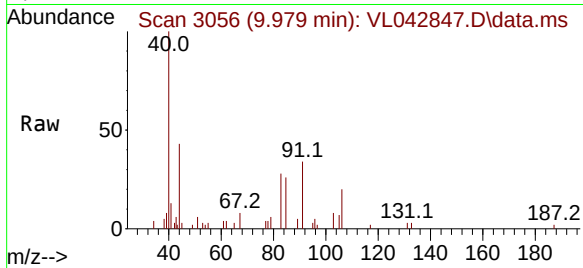




#63  
 1,1,2,2-Tetrachloroethane  
 Concen: 0.017 ppbv  
 RT: 9.979 min Scan# 3054  
 Delta R.T. 0.006 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

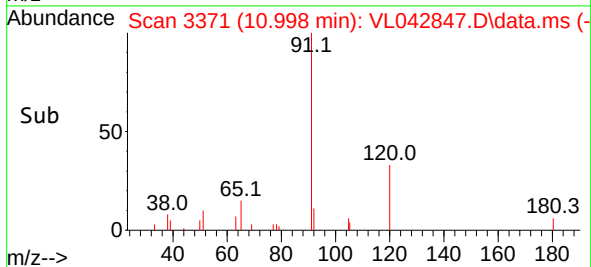
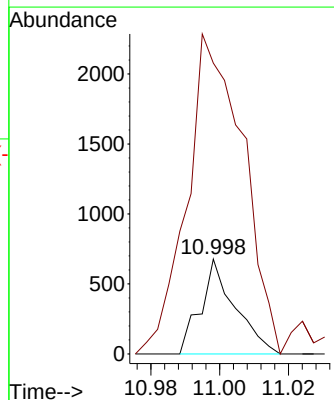
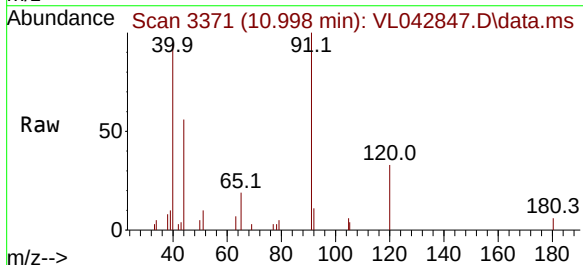
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.03

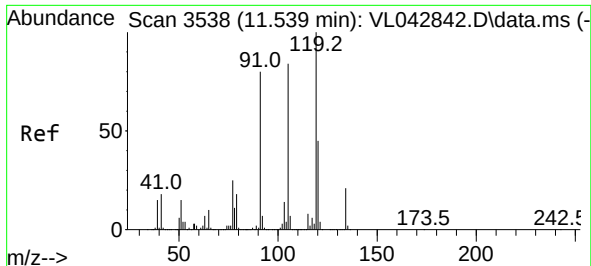
Tgt Ion: 83 Resp: 451  
 Ion Ratio Lower Upper  
 83 100  
 131 0.0 4.8 14.3#  
 85 154.3 32.3 96.8#



#64  
 n-propylbenzene  
 Concen: 0.027 ppbv  
 RT: 10.998 min Scan# 3371  
 Delta R.T. 0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

Tgt Ion: 120 Resp: 470  
 Ion Ratio Lower Upper  
 120 100  
 91 567.7 375.8 563.6#

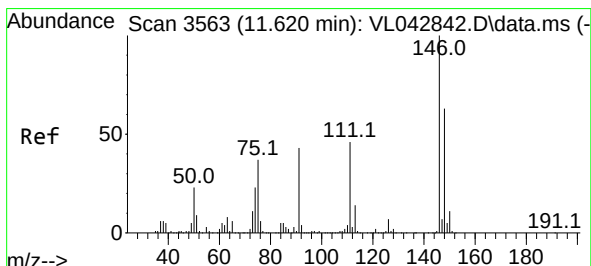
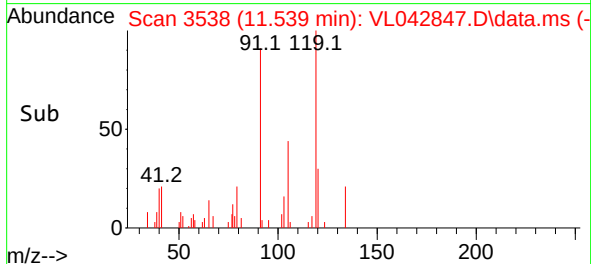
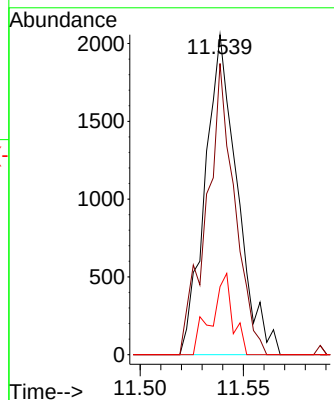
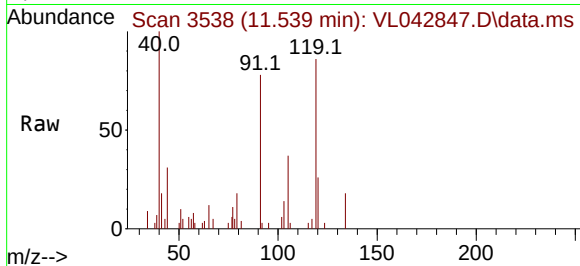




#65  
tert-Butylbenzene  
Concen: 0.037 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

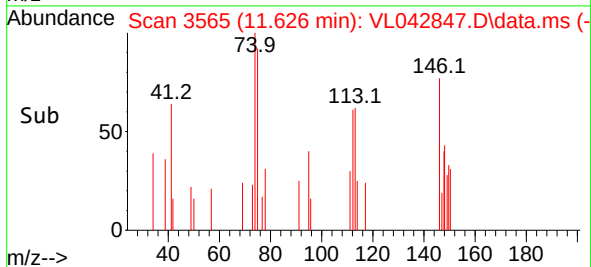
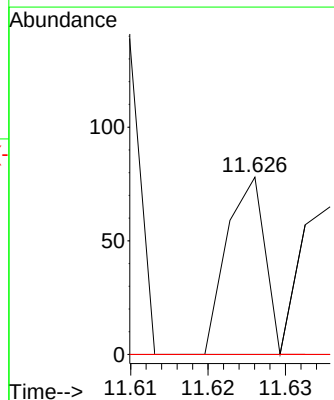
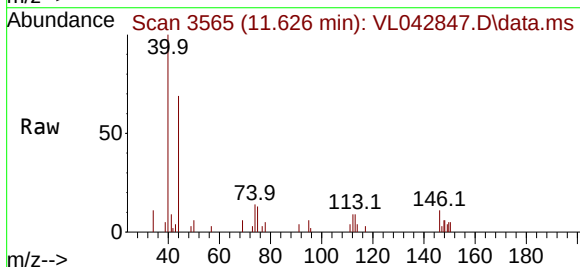
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 2234  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 79.5  | 63.9  | 95.9  |
| 134      | 16.7  | 17.0  | 25.4# |

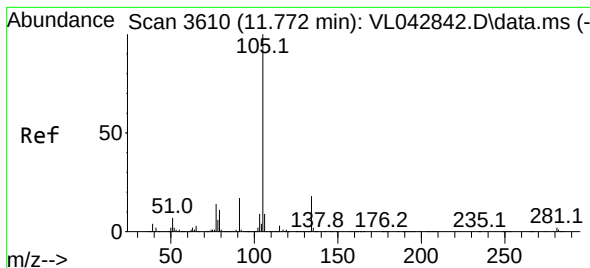


#66  
Benzyl Chloride  
Concen: 0.003 ppbv  
RT: 11.626 min Scan# 3565  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 27    |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 126      | 0.0   | 14.2  | 21.4# |
| 128      | 0.0   | 5.0   | 7.6#  |



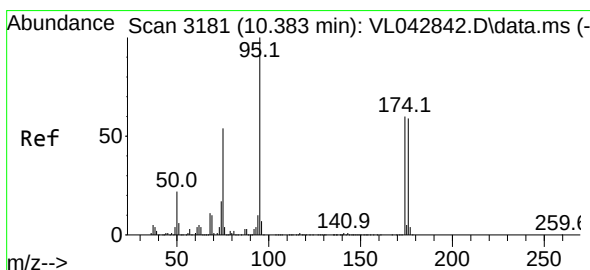
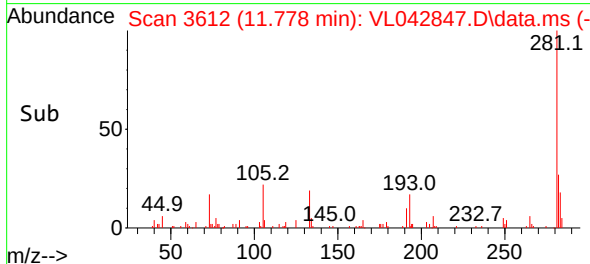
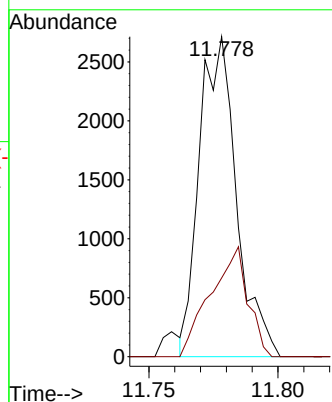
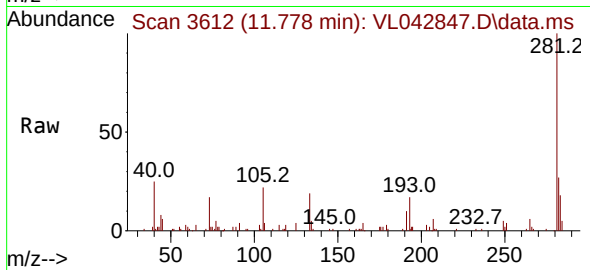




#67  
 sec-Butylbenzene  
 Concen: 0.032 ppbv  
 RT: 11.778 min Scan# 3612  
 Delta R.T. 0.006 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

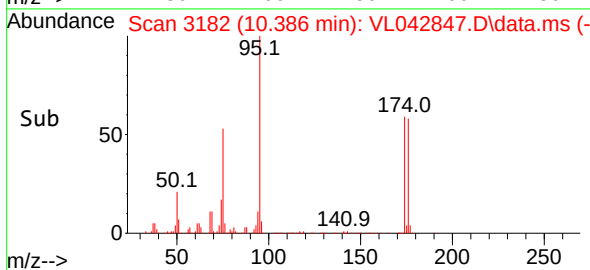
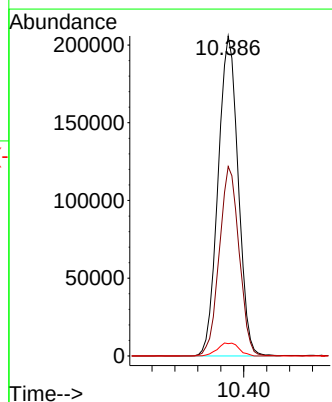
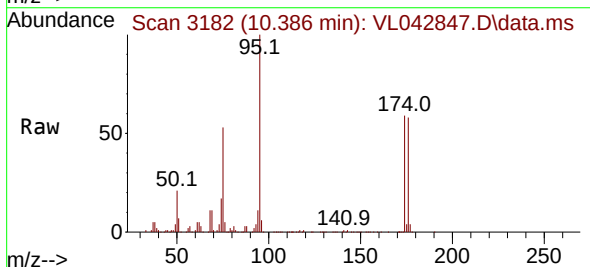
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.03

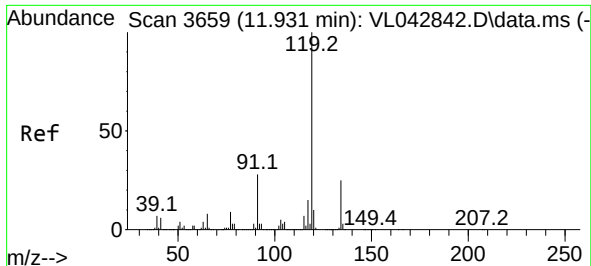
Tgt Ion:105 Resp: 2703  
 Ion Ratio Lower Upper  
 105 100  
 134 34.8 14.9 22.3#



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 9.816 ppbv  
 RT: 10.386 min Scan# 3182  
 Delta R.T. 0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

Tgt Ion: 95 Resp: 250082  
 Ion Ratio Lower Upper  
 95 100  
 174 58.5 48.4 72.6  
 175 4.4 3.8 5.8

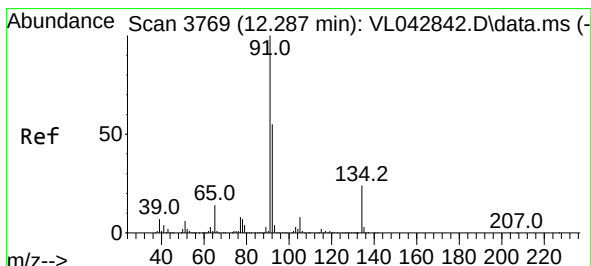
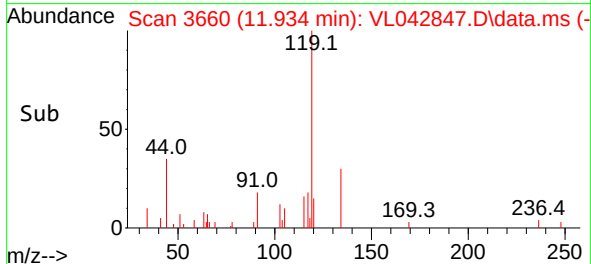
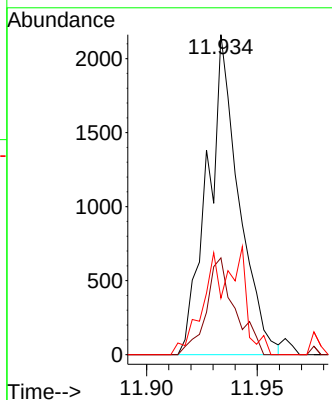
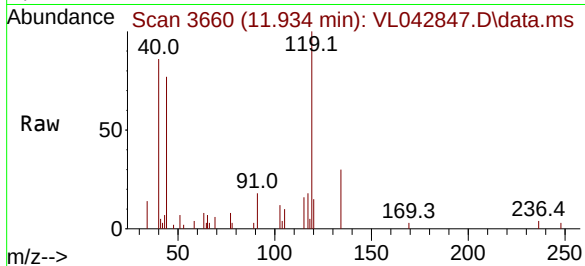




#69  
p-Isopropyltoluene  
Concen: 0.029 ppbv  
RT: 11.934 min Scan# 3660  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

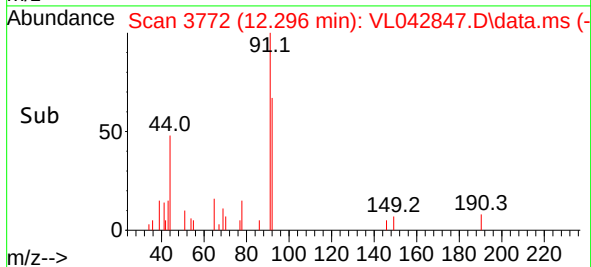
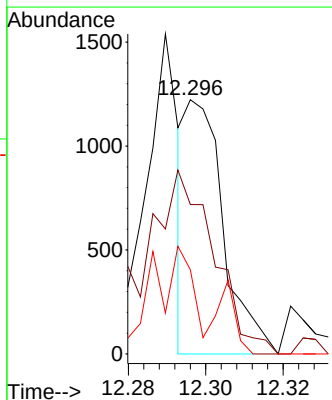
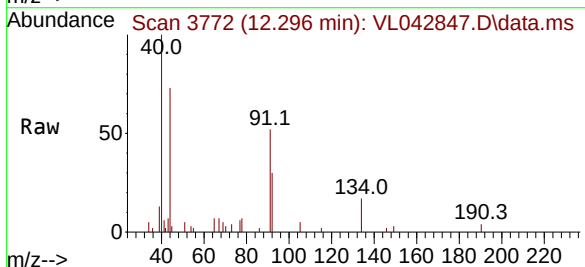
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

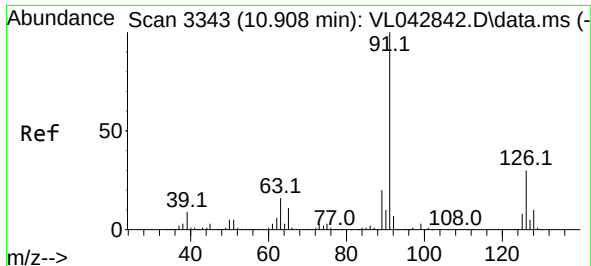
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 2136  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 27.7  | 20.6  | 30.8  |
| 91       | 38.2  | 22.6  | 34.0# |



#70  
n-Butylbenzene  
Concen: 0.011 ppbv  
RT: 12.296 min Scan# 3772  
Delta R.T. 0.009 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 829   |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 132.4 | 44.6  | 66.8# |
| 134      | 60.6  | 19.0  | 28.4# |

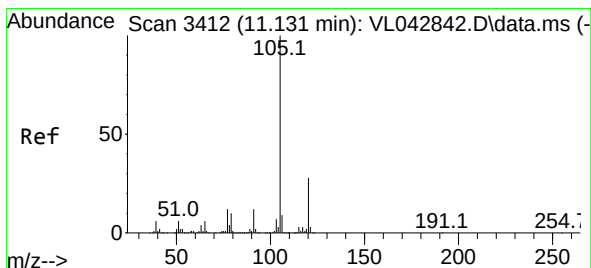
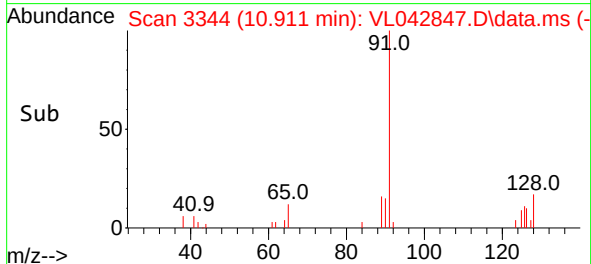
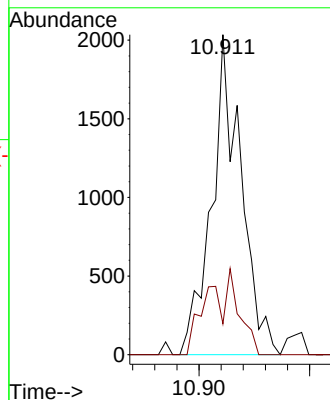
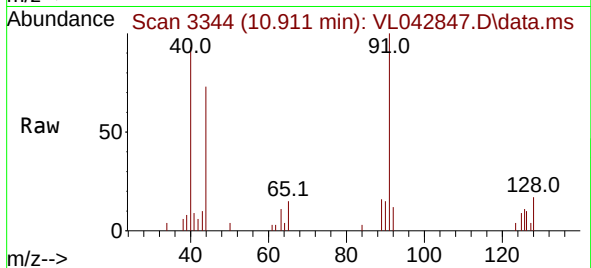




#71  
2-Chlorotoluene  
Concen: 0.035 ppbv  
RT: 10.911 min Scan# 3111  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

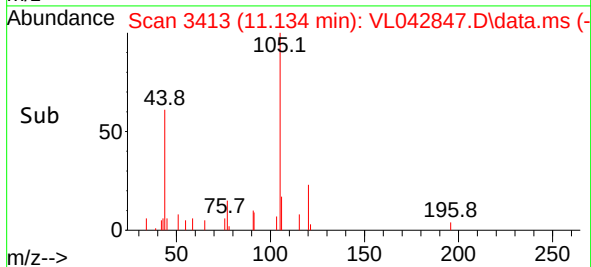
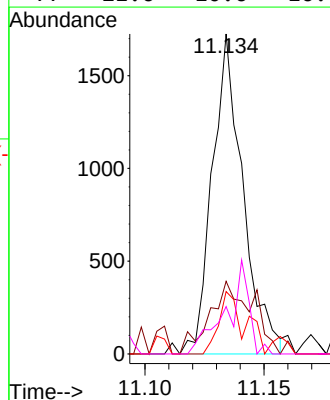
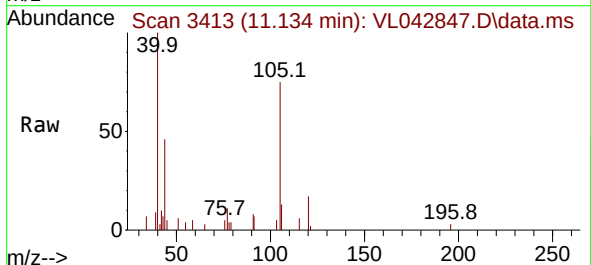
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

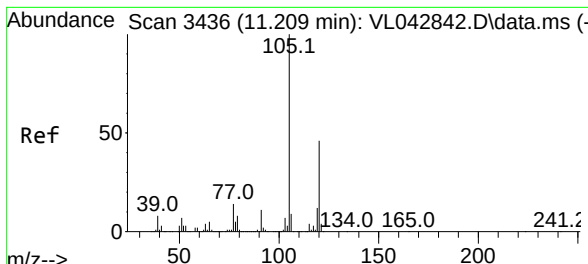
Tgt Ion: 91 Resp: 1870  
Ion Ratio Lower Upper  
91 100  
126 28.4 12.0 47.8



#72  
4-Ethyltoluene  
Concen: 0.027 ppbv  
RT: 11.134 min Scan# 3413  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion: 105 Resp: 1543  
Ion Ratio Lower Upper  
105 100  
120 37.8 23.4 35.2#  
91 21.4 9.8 14.6#  
77 21.6 10.6 16.0#

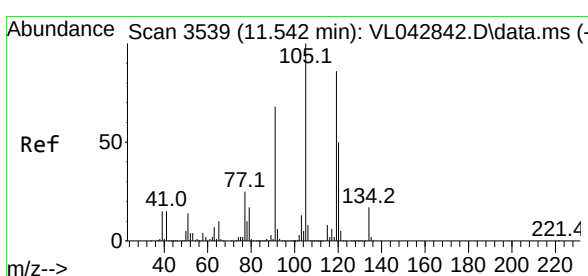
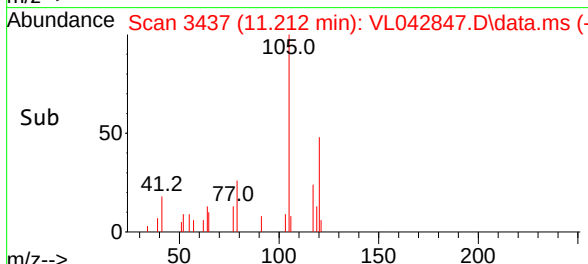
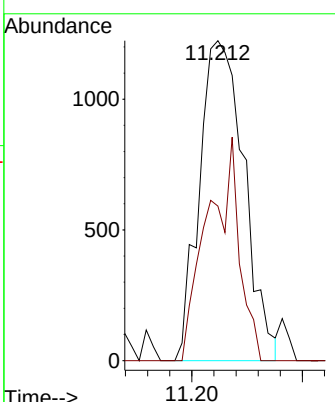
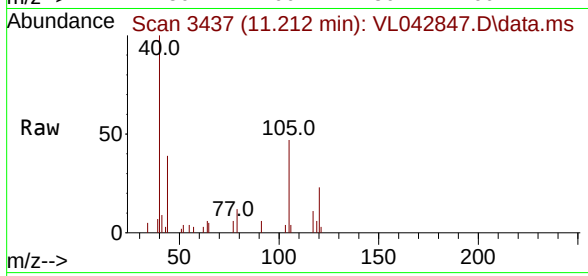




#73  
 1,3,5-Trimethylbenzene  
 Concen: 0.035 ppbv  
 RT: 11.212 min Scan# 3437  
 Delta R.T. 0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

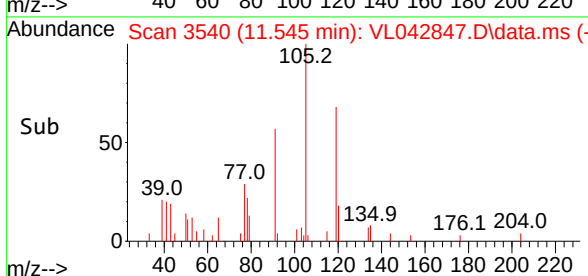
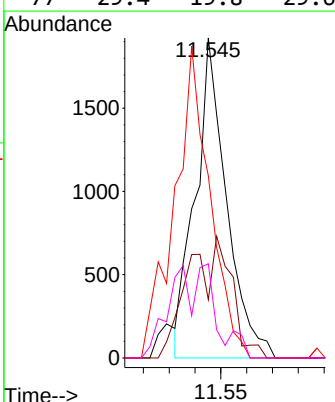
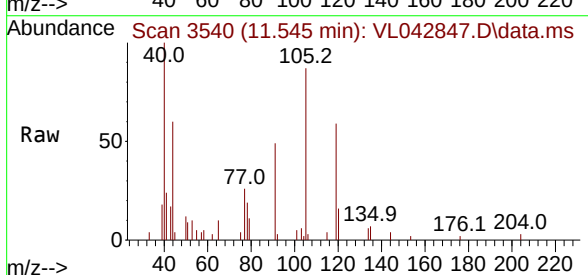
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC0.03

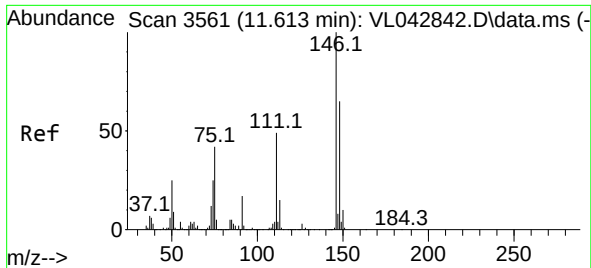
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 105   | Resp: | 1716 |
| Ion Ratio | Lower | Upper |      |
| 105       | 100   |       |      |
| 120       | 48.3  | 36.6  | 54.8 |



#74  
 1,2,4-Trimethylbenzene  
 Concen: 0.030 ppbv  
 RT: 11.545 min Scan# 3540  
 Delta R.T. 0.003 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 1610  |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 18.3  | 39.8  | 59.6# |
| 91        | 56.9  | 54.2  | 81.4  |
| 77        | 29.4  | 19.8  | 29.6  |

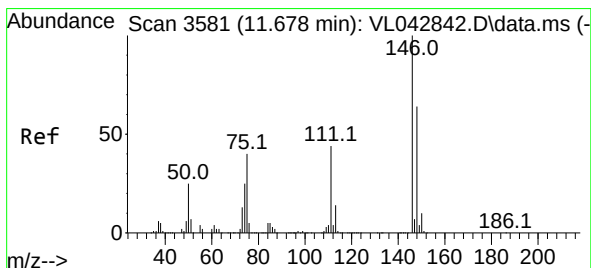
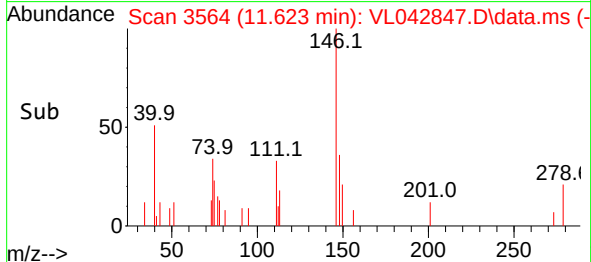
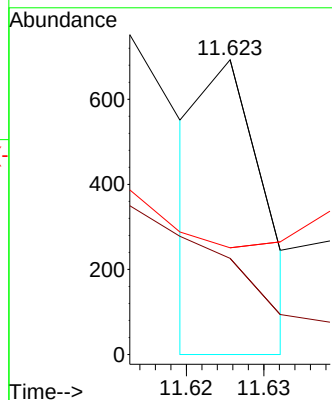
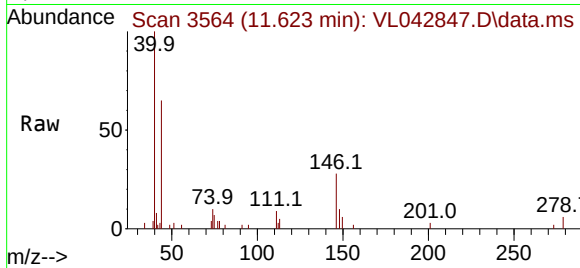




#75  
1,3-Dichlorobenzene  
Concen: 0.006 ppbv  
RT: 11.623 min Scan# 3561  
Delta R.T. 0.009 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

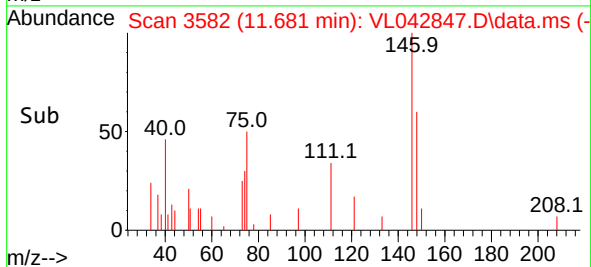
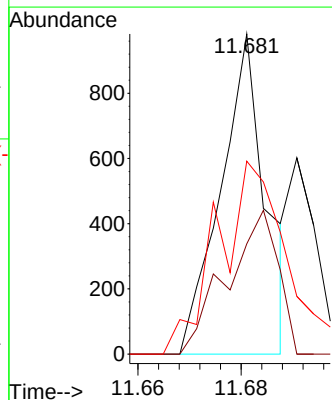
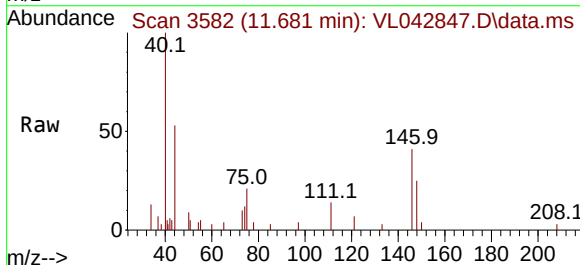
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC0.03

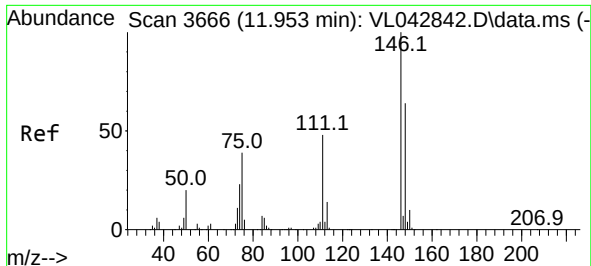
Tgt Ion:146 Resp: 182  
Ion Ratio Lower Upper  
146 100  
111 0.0 23.9 71.7#  
148 0.0 31.4 94.0#



#76  
1,4-Dichlorobenzene  
Concen: 0.019 ppbv  
RT: 11.681 min Scan# 3582  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

Tgt Ion:146 Resp: 596  
Ion Ratio Lower Upper  
146 100  
111 58.2 22.7 68.1  
148 92.8 31.8 95.3

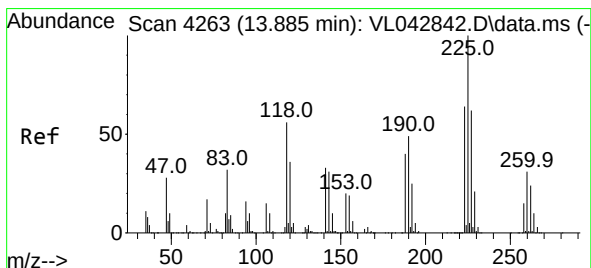
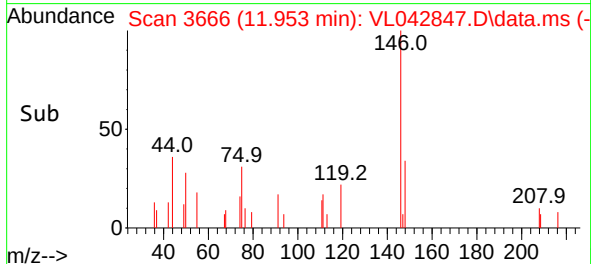
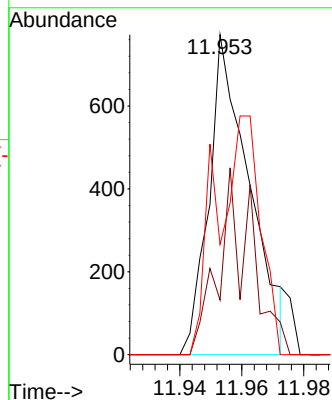
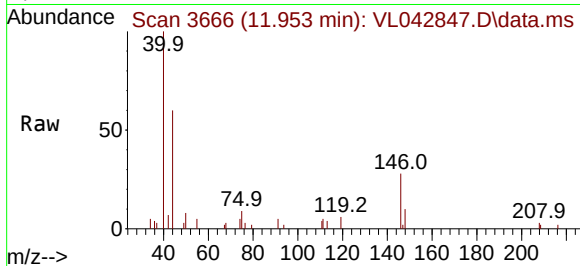




#77  
1,2-Dichlorobenzene  
Concen: 0.024 ppbv  
RT: 11.953 min Scan# 3666  
Delta R.T. -0.000 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

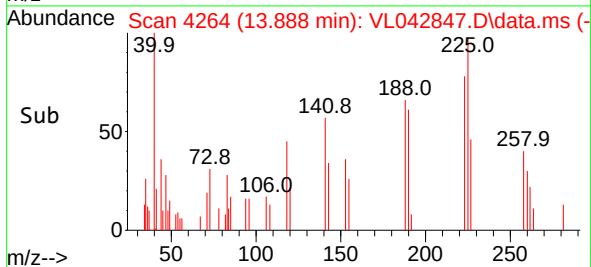
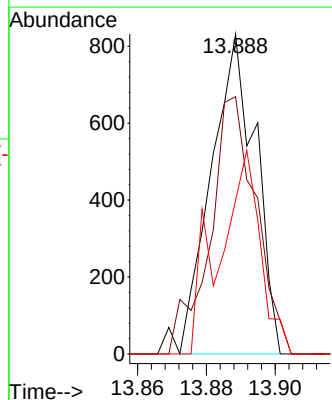
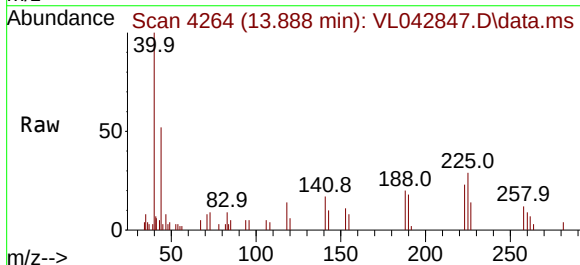
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC0.03

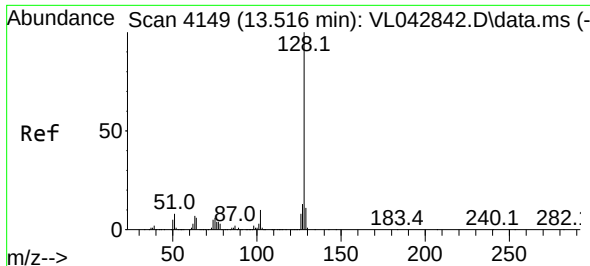
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 701   |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 46.9  | 24.6  | 74.0  |
| 148      | 80.2  | 32.0  | 96.0  |



#78  
Hexachloro-1,3-Butadiene  
Concen: 0.030 ppbv  
RT: 13.888 min Scan# 4264  
Delta R.T. 0.003 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 744   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 83.6  | 51.4  | 77.2# |
| 227      | 59.5  | 51.9  | 77.9  |

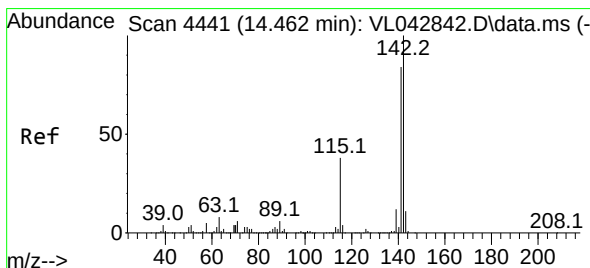
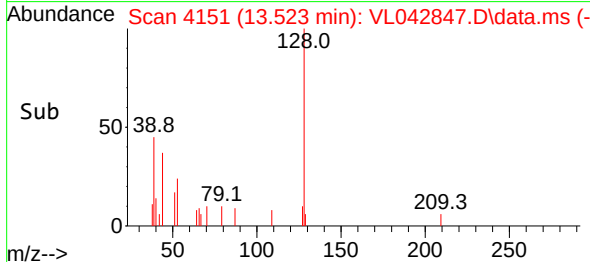
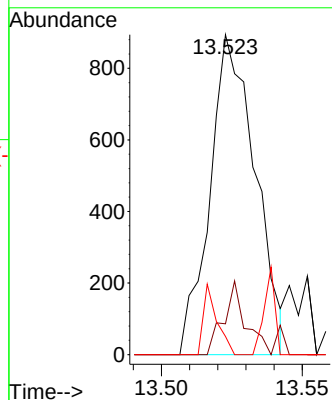
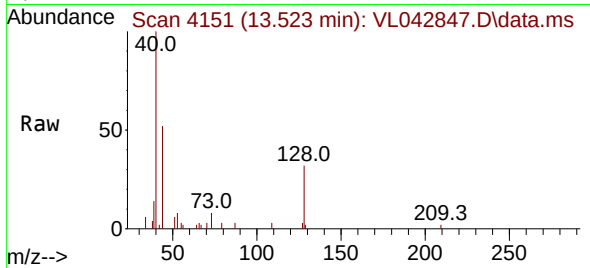




#79  
Naphthalene  
Concen: 0.021 ppbv  
RT: 13.523 min Scan# 4149  
Delta R.T. 0.006 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

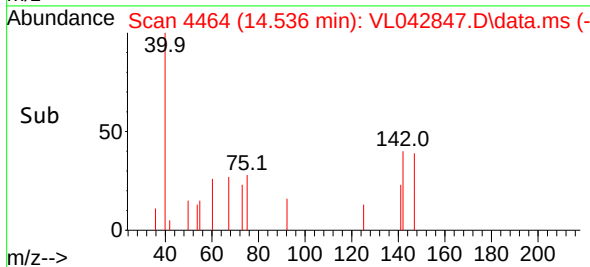
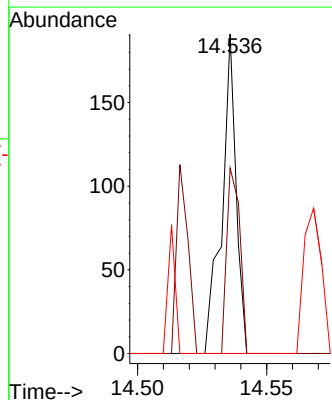
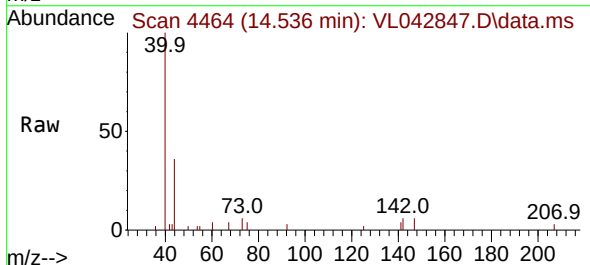
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC0.03

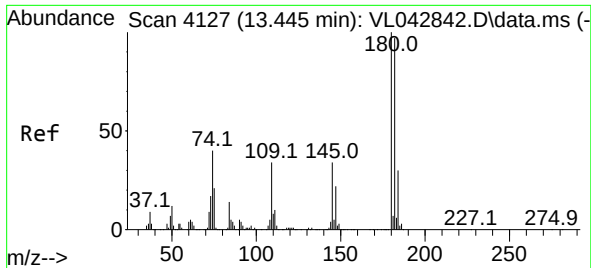
Tgt Ion:128 Resp: 998  
Ion Ratio Lower Upper  
128 100  
127 9.1 10.6 16.0#  
129 5.4 8.9 13.3#



#80  
Naphthalene,2-methyl-  
Concen: 0.004 ppbv  
RT: 14.536 min Scan# 4464  
Delta R.T. 0.074 min  
Lab File: VL042847.D  
Acq: 13 Aug 2025 11:30

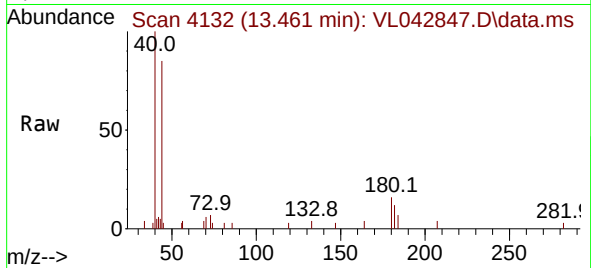
Tgt Ion:142 Resp: 73  
Ion Ratio Lower Upper  
142 100  
141 101.4 67.0 100.6#  
115 56.2 30.9 46.3#



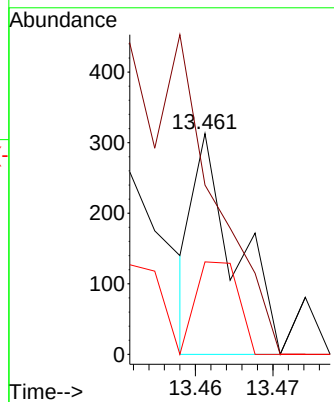
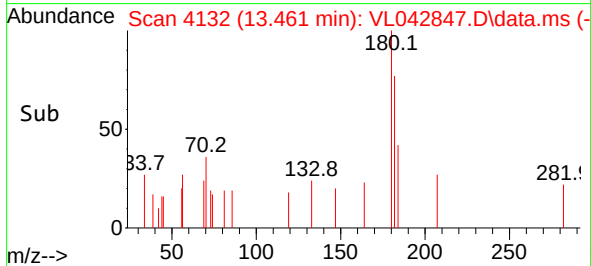


#81  
 1,2,4-Trichlorobenzene  
 Concen: 0.005 ppbv  
 RT: 13.461 min Scan# 41  
 Delta R.T. 0.016 min  
 Lab File: VL042847.D  
 Acq: 13 Aug 2025 11:30

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC0.03



|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 114         |
| Ion         | Ratio | Lower Upper |
| 180         | 100   |             |
| 182         | 352.6 | 76.9 115.3# |
| 184         | 0.0   | 24.5 36.7#  |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042848.D  
 Acq On : 13 Aug 2025 12:06  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

Quant Time: Aug 14 01:51:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Bromochloromethane         | 2.794  | 49    | 122073   | 10.000   | ppbv       | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.965  | 114   | 380877   | 10.000   | ppbv       | 0.00     |
| 55) Chlorobenzene-d5          | 8.892  | 117   | 337876   | 10.000   | ppbv       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.384 | 95    | 254655   | 10.050   | ppbv       | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | = 100.500% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.502  | 85    | 253151   | 14.150   | ppbv       | 99       |
| 3) Chlorodifluoromethane      | 1.480  | 51    | 275350   | 13.910   | ppbv       | 99       |
| 4) Chloromethane              | 1.535  | 50    | 100974   | 13.986   | ppbv       | 99       |
| 5) Vinyl Chloride             | 1.583  | 62    | 92812    | 13.053   | ppbv       | 100      |
| 6) Bromomethane               | 1.671  | 94    | 37740    | 13.275   | ppbv       | 96       |
| 7) Chloroethane               | 1.706  | 64    | 38398    | 13.828   | ppbv       | 97       |
| 8) Dichlorotetrafluoroethane  | 1.557  | 85    | 205386   | 14.029   | ppbv       | 98       |
| 9) Propene                    | 1.486  | 41    | 111824   | 13.094   | ppbv       | 99       |
| 10) Heptane                   | 4.988  | 43    | 313734   | 13.742   | ppbv       | 99       |
| 11) Trichlorofluoromethane    | 1.881  | 101   | 246354   | 13.957   | ppbv       | 100      |
| 12) 1,1,2-Trichlorotrifluo... | 2.143  | 101   | 195231   | 13.877   | ppbv       | 99       |
| 13) Ethanol                   | 1.722  | 45    | 8534     | 10.086   | ppbv       | 98       |
| 14) Bromoethene               | 1.784  | 108   | 71671    | 14.072   | ppbv       | 99       |
| 15) Acetone                   | 1.839  | 43    | 184116   | 11.402   | ppbv       | 100      |
| 16) 1,3-Butadiene             | 1.612  | 39    | 92068    | 12.577   | ppbv       | 100      |
| 17) tert-Butyl alcohol        | 2.043  | 59    | 244441   | 12.765   | ppbv       | 100      |
| 18) 1,1-Dichloroethene        | 2.036  | 96    | 86349    | 13.961   | ppbv       | 97       |
| 19) Isopropyl Alcohol         | 1.887  | 45    | 124270   | 12.885   | ppbv       | 99       |
| 20) Methylene Chloride        | 2.065  | 84    | 77749    | 11.494   | ppbv       | 97       |
| 21) Allyl Chloride            | 2.101  | 41    | 156318   | 13.703   | ppbv       | 95       |
| 22) trans-1,2-Dichloroethene  | 2.344  | 96    | 100064   | 14.465   | ppbv       | 95       |
| 23) Vinyl Acetate             | 2.467  | 43    | 309236   | 14.557   | ppbv       | 98       |
| 24) 1,1-Dichloroethane        | 2.412  | 63    | 199276   | 13.944   | ppbv       | 98       |
| 25) Ethyl Acetate             | 2.839  | 43    | 533600   | 13.653   | ppbv       | 99       |
| 26) Hexane                    | 2.833  | 57    | 250189   | 13.869   | ppbv       | 98       |
| 27) Carbon Disulfide          | 2.153  | 76    | 246868   | 14.062   | ppbv       | 99       |
| 28) Methyl tert-Butyl Ether   | 2.444  | 73    | 129978   | 14.131   | ppbv       | 91       |
| 29) Chloroform                | 2.855  | 83    | 360661   | 14.003   | ppbv       | 99       |
| 30) Cyclohexane               | 3.865  | 84    | 222820   | 14.088   | ppbv       | 98       |
| 31) cis-1,2-Dichloroethene    | 2.726  | 61    | 249376   | 13.821   | ppbv       | 96       |
| 32) 1,1,1-Trichloroethane     | 3.376  | 97    | 377739   | 13.851   | ppbv       | 100      |
| 34) 2-Butanone                | 2.561  | 43    | 348815   | 13.563   | ppbv       | 99       |
| 35) Carbon Tetrachloride      | 3.771  | 117   | 367354   | 13.990   | ppbv       | 97       |
| 36) Benzene                   | 3.664  | 78    | 511811   | 14.033   | ppbv       | 99       |
| 37) 1,2-Dichloroethane        | 3.224  | 62    | 278934   | 14.639   | ppbv       | 99       |
| 38) Trichloroethene           | 4.558  | 130   | 227091   | 13.634   | ppbv       | 96       |
| 39) 1,2-Dichloropropane       | 4.325  | 63    | 186277   | 13.984   | ppbv       | 95       |
| 40) 1,4-Dioxane               | 4.593  | 88    | 82385    | 13.212   | ppbv       | # 91     |
| 41) Tetrahydrofuran           | 3.056  | 42    | 200751   | 14.001   | ppbv       | 99       |
| 42) Bromodichloromethane      | 4.499  | 83    | 408089   | 14.372   | ppbv       | 97       |
| 43) Methyl Methacrylate       | 4.888  | 69    | 206590   | 13.808   | ppbv       | 99       |
| 44) 2,2,4-Trimethylpentane    | 4.652  | 57    | 850847   | 13.895   | ppbv       | 99       |
| 45) t-1,3-Dichloropropene     | 6.428  | 75    | 244117   | 14.387   | ppbv       | 99       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042848.D  
 Acq On : 13 Aug 2025 12:06  
 Operator : SY/MD  
 Sample : VSTDIC015  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

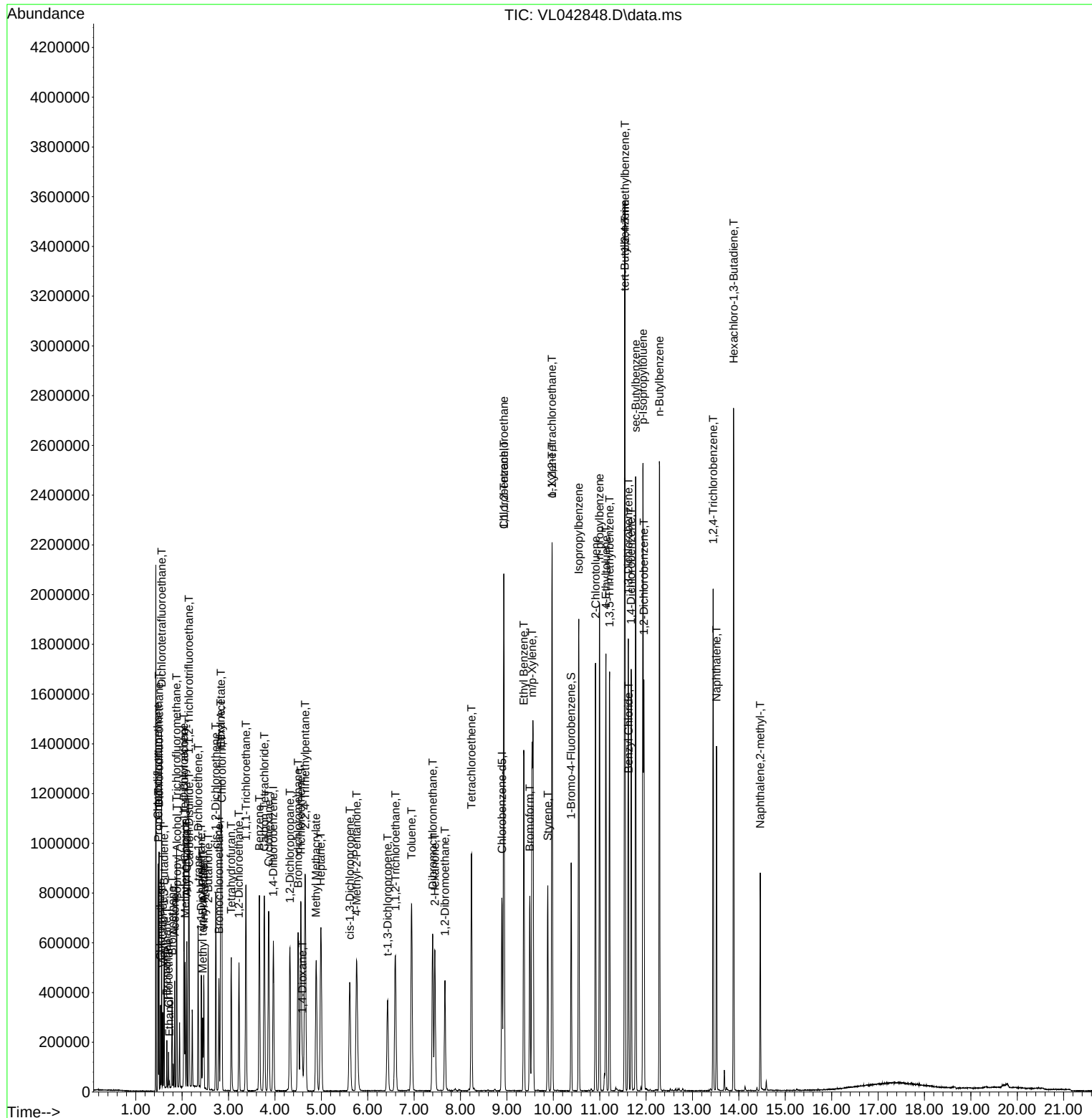
Quant Time: Aug 14 01:51:12 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 01:44:36 2025  
 Response via : Initial Calibration

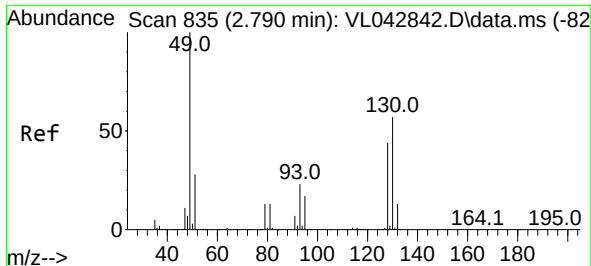
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.616  | 75   | 302339   | 14.191 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.597  | 97   | 199067   | 14.118 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.399  | 129  | 331947   | 14.535 | ppbv   | 99       |
| 49) Bromoform                 | 9.494  | 173  | 266732   | 14.162 | ppbv   | 100      |
| 50) 4-Methyl-2-Pentanone      | 5.758  | 43   | 490917   | 14.073 | ppbv   | 100      |
| 51) 2-Hexanone                | 7.448  | 43   | 389940   | 14.255 | ppbv   | 100      |
| 52) Tetrachloroethene         | 8.238  | 164  | 168712   | 12.772 | ppbv   | 98       |
| 53) Toluene                   | 6.943  | 91   | 605941   | 13.961 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 292327   | 14.173 | ppbv   | 97       |
| 56) 1,1,1,2-Tetrachloroethane | 8.934  | 131  | 241293   | 13.810 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.934  | 112  | 439109   | 13.668 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.364  | 91   | 826316   | 13.859 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.542  | 91   | 667628   | 14.262 | ppbv # | 100      |
| 60) o-Xylene                  | 9.973  | 91   | 629445   | 13.389 | ppbv   | 100      |
| 61) Styrene                   | 9.882  | 104  | 304560   | 13.827 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.549 | 105  | 931574   | 13.559 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.973  | 83   | 342890   | 13.356 | ppbv   | 98       |
| 64) n-propylbenzene           | 10.999 | 120  | 239209   | 13.646 | ppbv   | 98       |
| 65) tert-Butylbenzene         | 11.539 | 119  | 785250   | 12.965 | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.623 | 91   | 104698   | 13.617 | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.775 | 105  | 1115979  | 13.127 | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.931 | 119  | 940888   | 12.891 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.287 | 91   | 970700   | 13.410 | ppbv   | 100      |
| 71) 2-Chlorotoluene           | 10.911 | 91   | 713696   | 13.378 | ppbv   | 99       |
| 72) 4-Ethyltoluene            | 11.134 | 105  | 782057   | 13.722 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 650280   | 13.418 | ppbv   | 99       |
| 74) 1,2,4-Trimethylbenzene    | 11.546 | 105  | 691709   | 13.003 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.617 | 146  | 402850   | 13.321 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 407214   | 13.314 | ppbv   | 98       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 385866   | 13.031 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 281581   | 11.602 | ppbv   | 99       |
| 79) Naphthalene               | 13.517 | 128  | 658732   | 13.837 | ppbv   | 100      |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 251753   | 14.042 | ppbv   | 100      |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 329641   | 13.599 | ppbv   | 100      |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDICC015

Quant Time: Aug 14 01:51:12 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Thu Aug 14 01:44:36 2025  
Response via : Initial Calibration

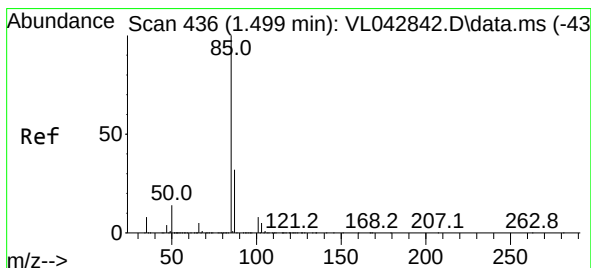
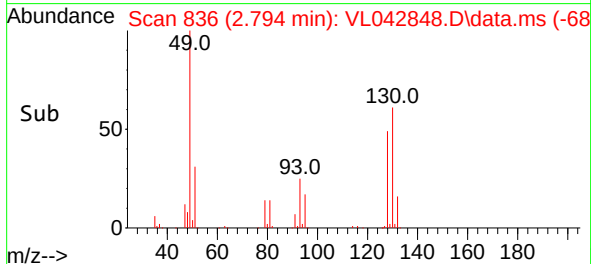
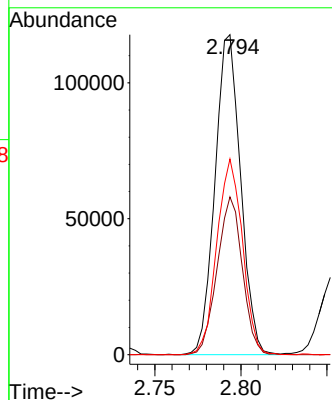
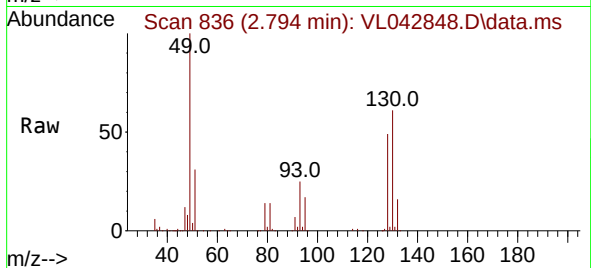




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.794 min Scan# 835  
Delta R.T. 0.004 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

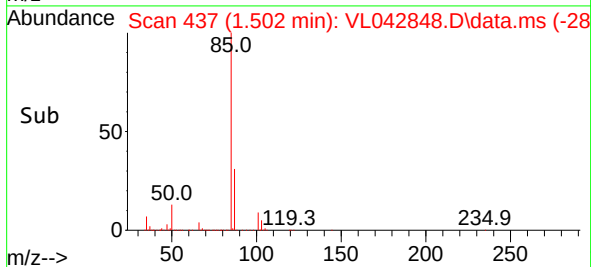
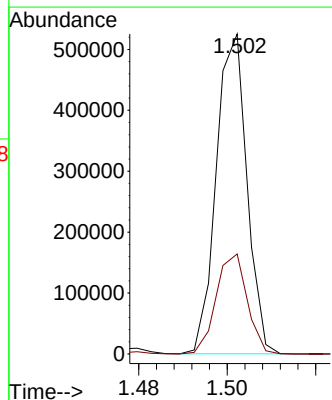
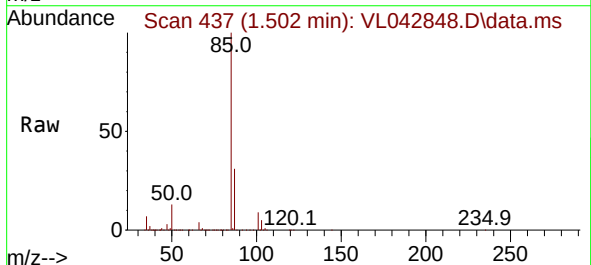
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

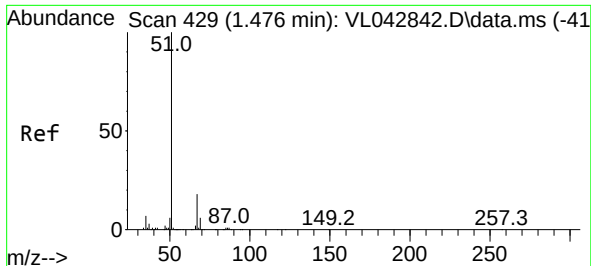
Tgt Ion: 49 Resp: 122073  
Ion Ratio Lower Upper  
49 100  
128 48.4 23.7 71.1  
130 61.2 30.6 91.6



#2  
Dichlorodifluoromethane  
Concen: 14.150 ppbv  
RT: 1.502 min Scan# 437  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 253151  
Ion Ratio Lower Upper  
85 100  
87 31.2 25.3 37.9

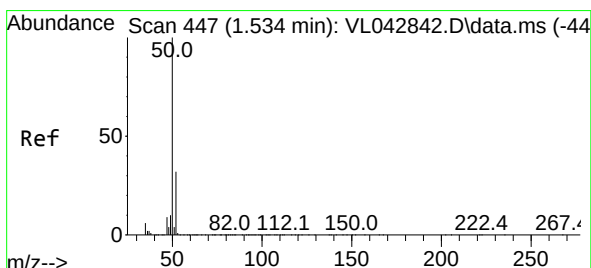
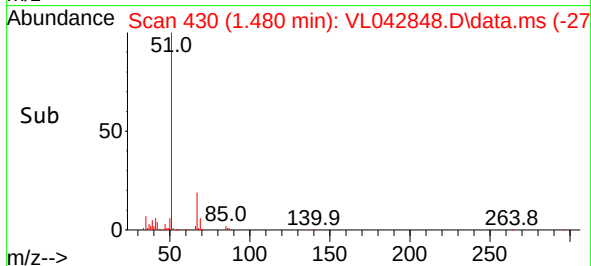
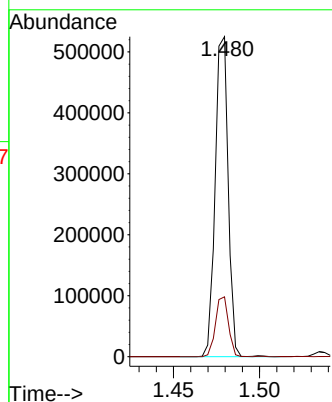
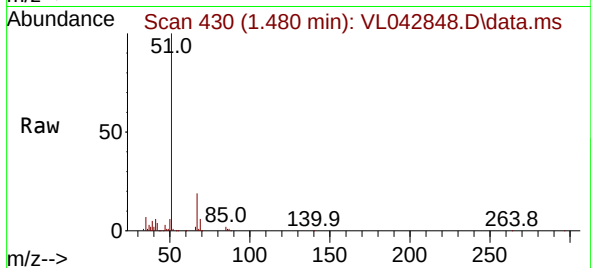




#3  
Chlorodifluoromethane  
Concen: 13.910 ppbv  
RT: 1.480 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

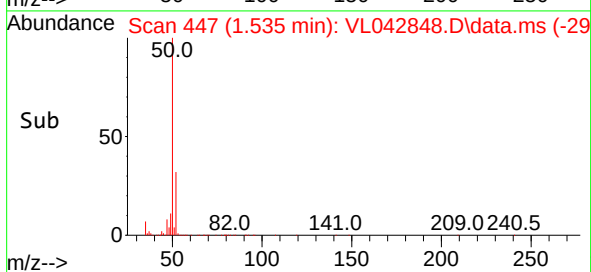
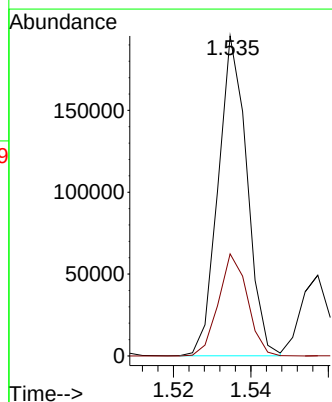
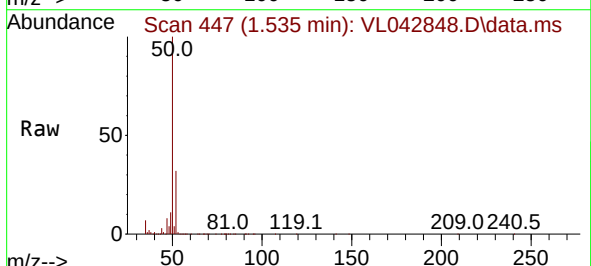
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

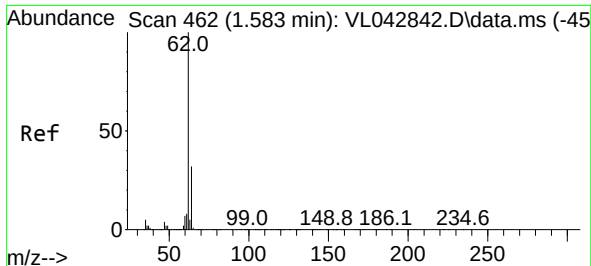
Tgt Ion: 51 Resp: 275350  
Ion Ratio Lower Upper  
51 100  
67 18.9 14.9 22.3



#4  
Chloromethane  
Concen: 13.986 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 50 Resp: 100974  
Ion Ratio Lower Upper  
50 100  
52 31.9 25.9 38.9

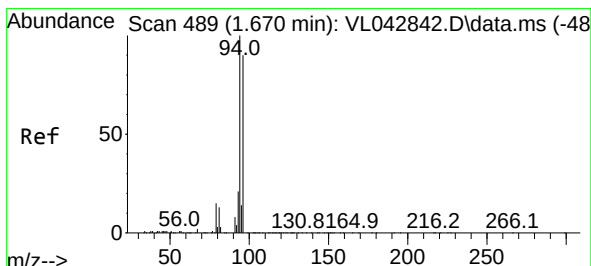
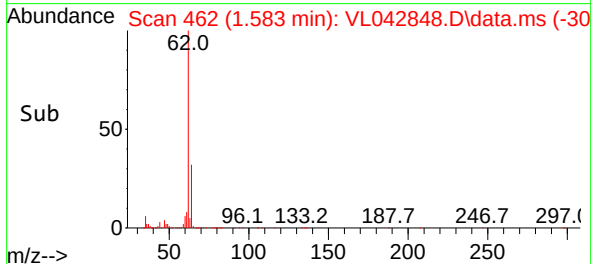
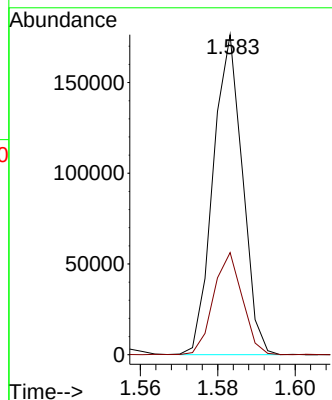
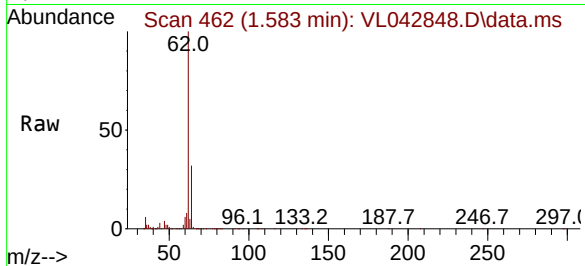




#5  
 Vinyl Chloride  
 Concen: 13.053 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

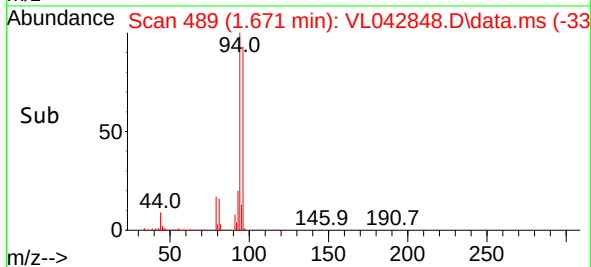
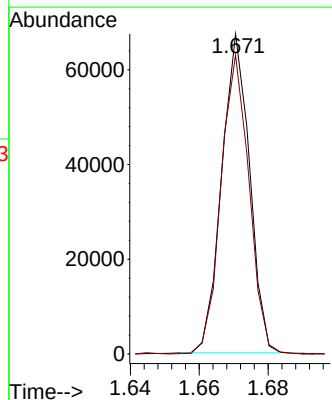
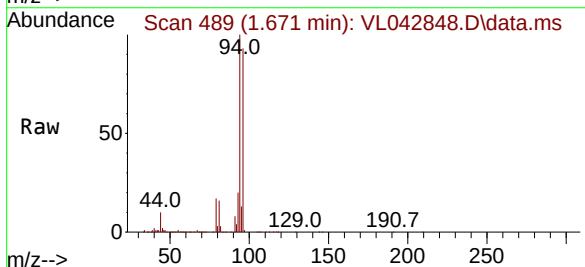
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

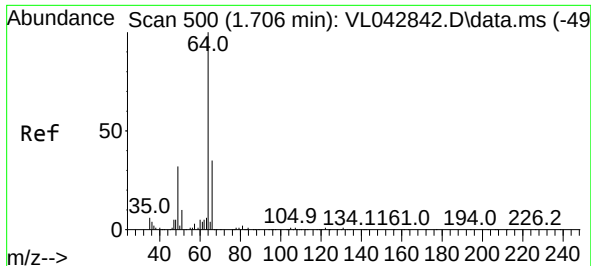
Tgt Ion: 62 Resp: 92812  
 Ion Ratio Lower Upper  
 62 100  
 64 31.8 25.4 38.2



#6  
 Bromomethane  
 Concen: 13.275 ppbv  
 RT: 1.671 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Tgt Ion: 94 Resp: 37740  
 Ion Ratio Lower Upper  
 94 100  
 96 93.7 72.1 108.1

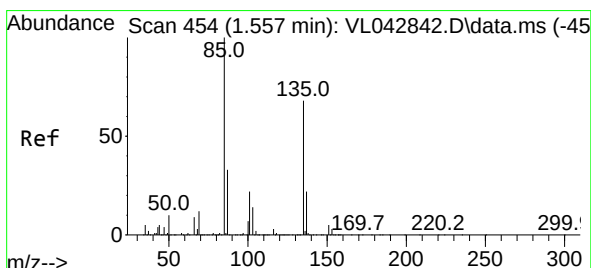
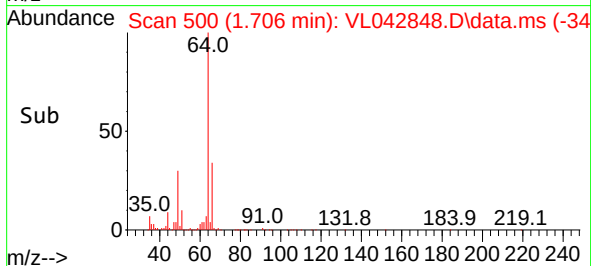
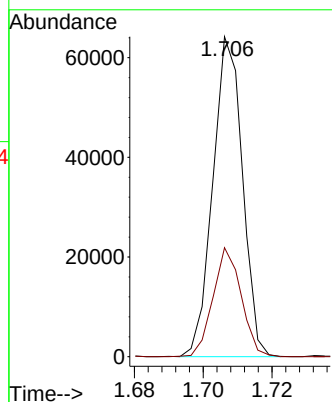
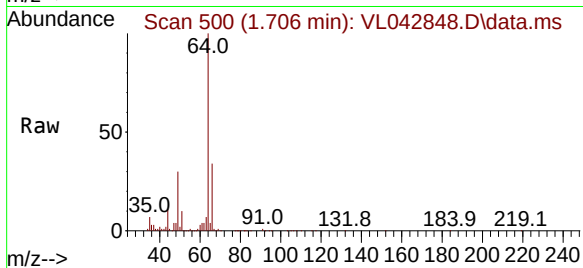




#7  
Chloroethane  
Concen: 13.828 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

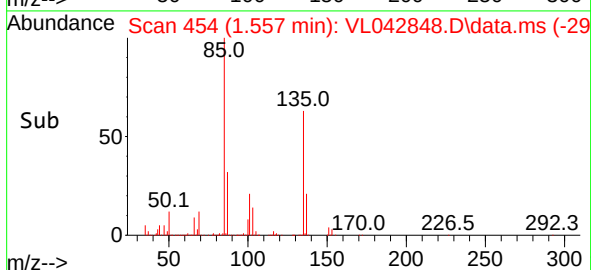
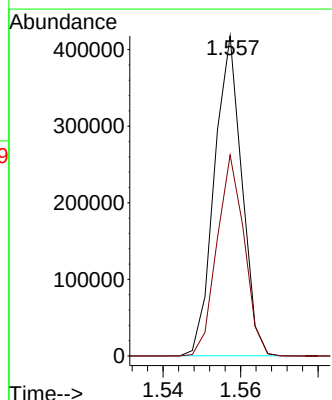
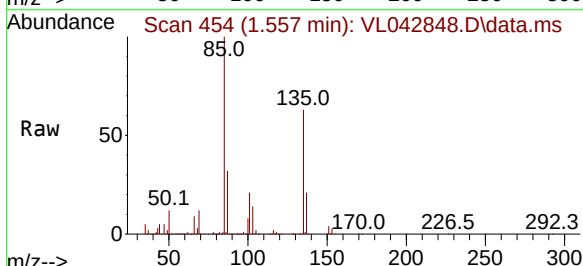
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC015

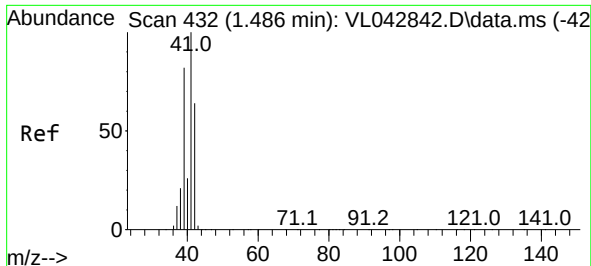
Tgt Ion: 64 Resp: 38398  
Ion Ratio Lower Upper  
64 100  
66 34.1 28.6 42.8



#8  
Dichlorotetrafluoroethane  
Concen: 14.029 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 85 Resp: 205386  
Ion Ratio Lower Upper  
85 100  
135 62.7 51.2 76.8

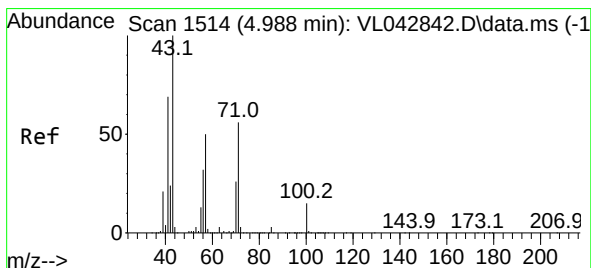
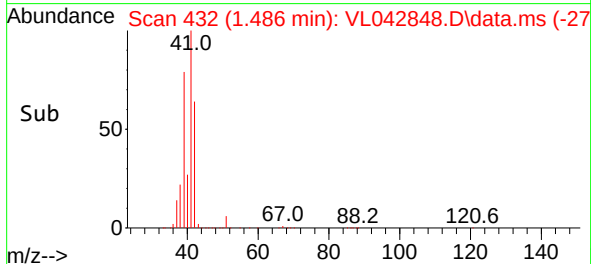
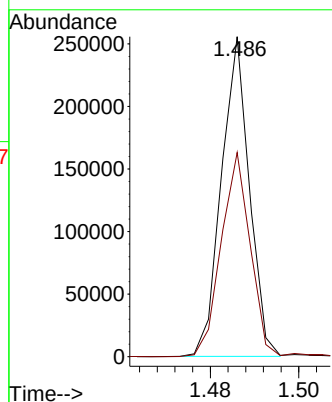
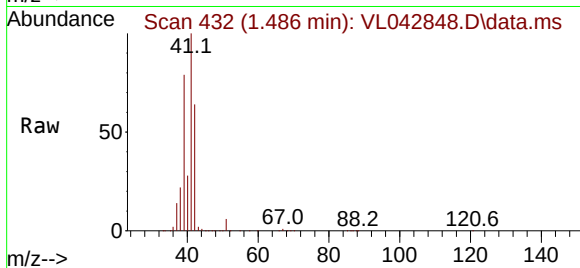




#9  
Propene  
Concen: 13.094 ppbv  
RT: 1.486 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

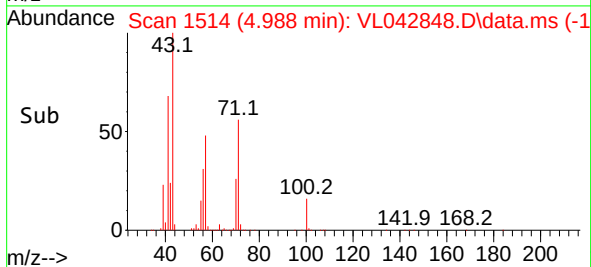
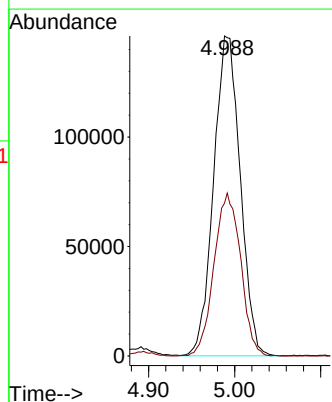
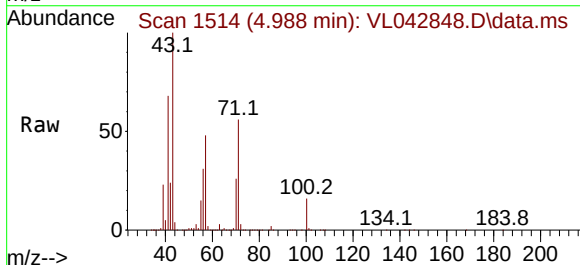
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

Tgt Ion: 41 Resp: 111824  
Ion Ratio Lower Upper  
41 100  
42 67.0 53.0 79.4

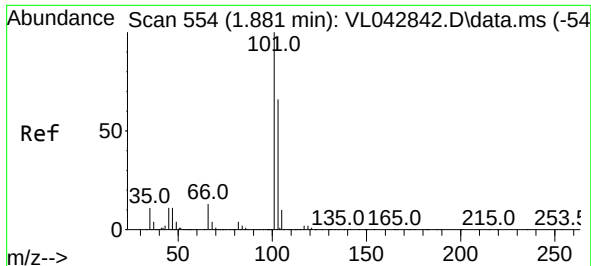


#10  
Heptane  
Concen: 13.742 ppbv  
RT: 4.988 min Scan# 1514  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 313734  
Ion Ratio Lower Upper  
43 100  
57 51.0 41.4 62.0



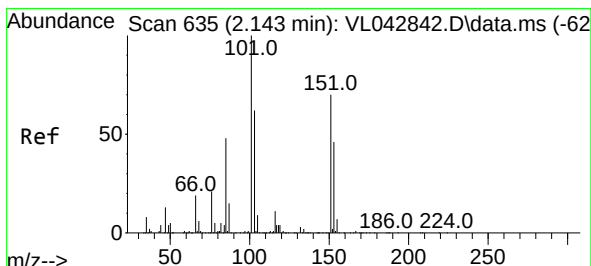
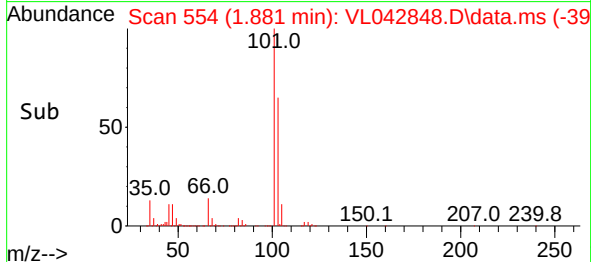
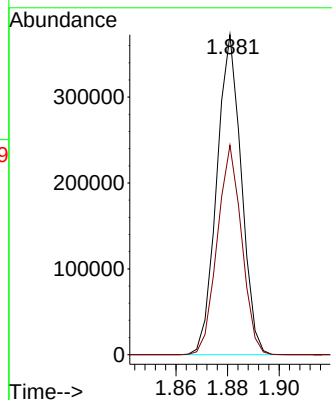
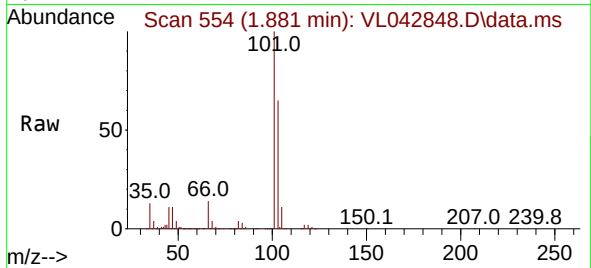




#11  
 Trichlorofluoromethane  
 Concen: 13.957 ppbv  
 RT: 1.881 min Scan# 511  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

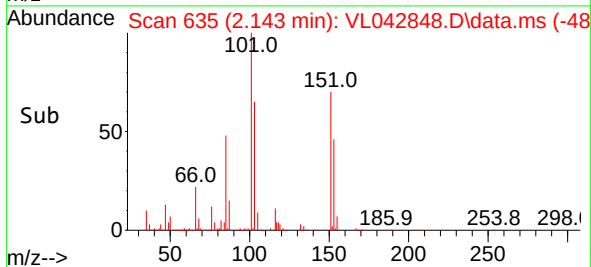
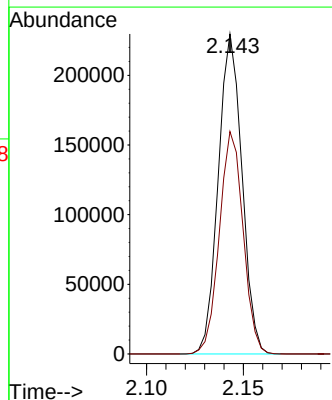
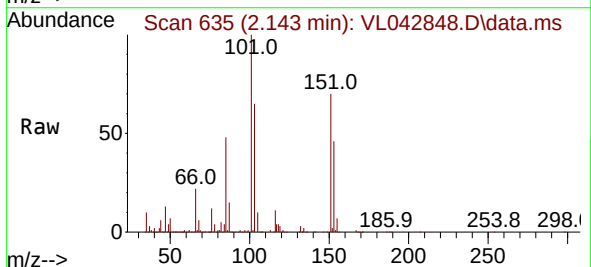
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

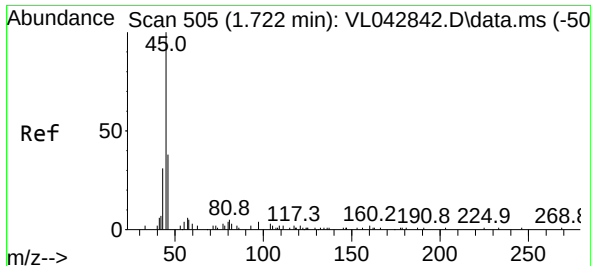
Tgt Ion:101 Resp: 246354  
 Ion Ratio Lower Upper  
 101 100  
 103 65.5 52.5 78.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 13.877 ppbv  
 RT: 2.143 min Scan# 635  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Tgt Ion:101 Resp: 195231  
 Ion Ratio Lower Upper  
 101 100  
 151 69.7 56.4 84.6

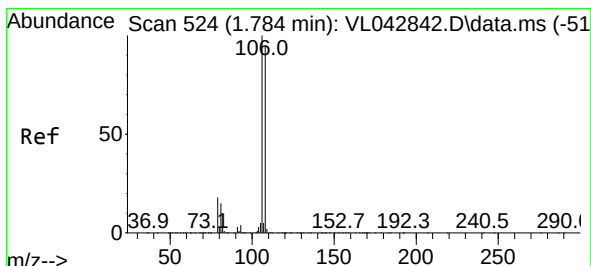
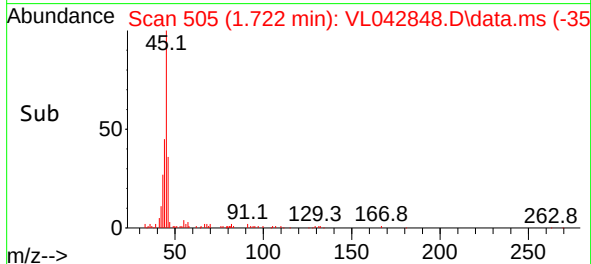
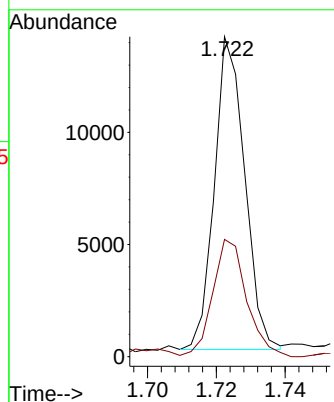
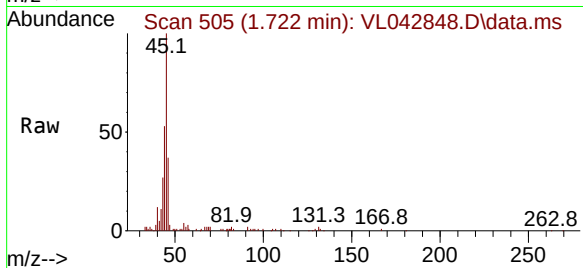




#13  
Ethanol  
Concen: 10.086 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

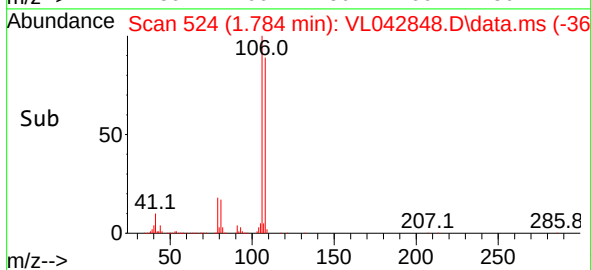
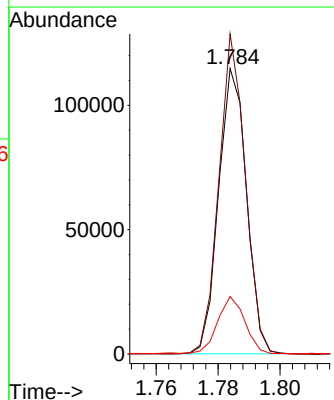
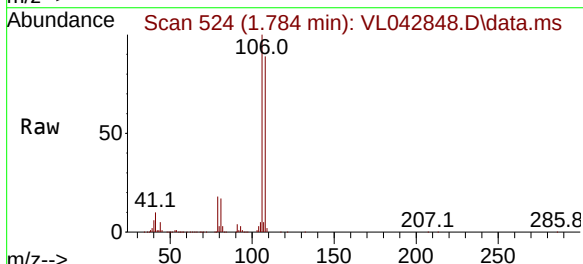
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC015

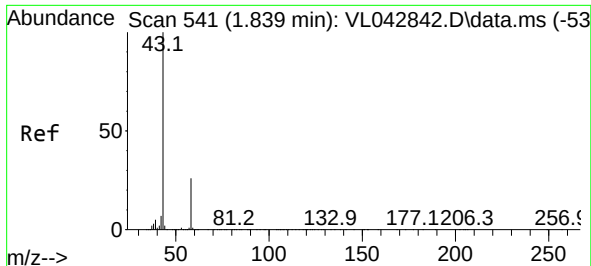
Tgt Ion: 45 Resp: 8534  
Ion Ratio Lower Upper  
45 100  
46 42.3 17.5 69.9



#14  
Bromoethene  
Concen: 14.072 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 108 Resp: 71671  
Ion Ratio Lower Upper  
108 100  
106 106.0 85.1 127.7  
79 19.4 16.3 24.5

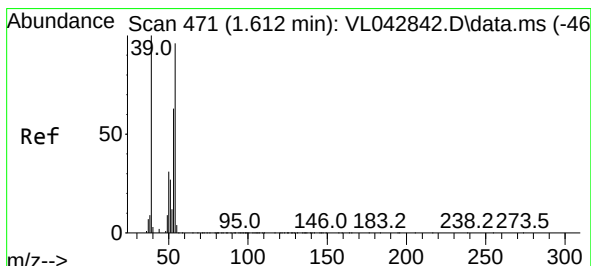
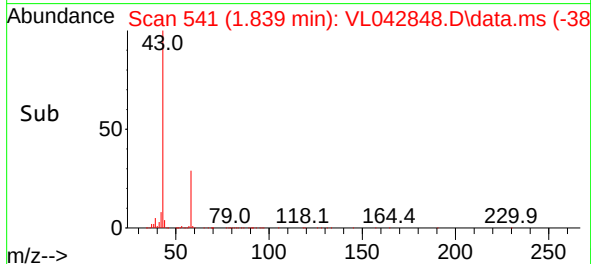
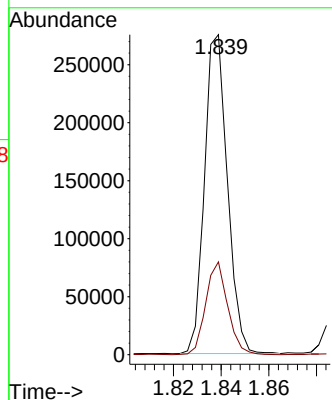
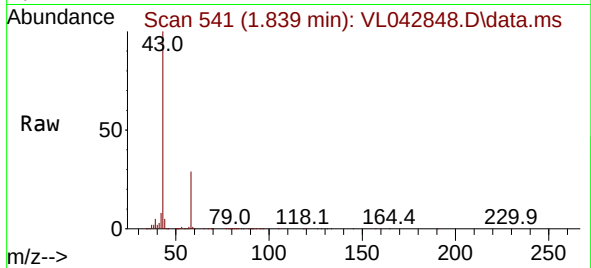




#15  
Acetone  
Concen: 11.402 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

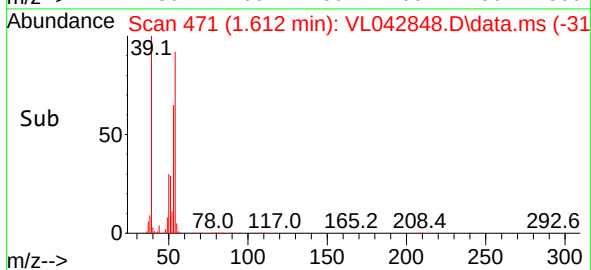
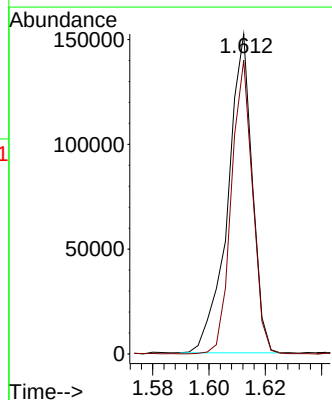
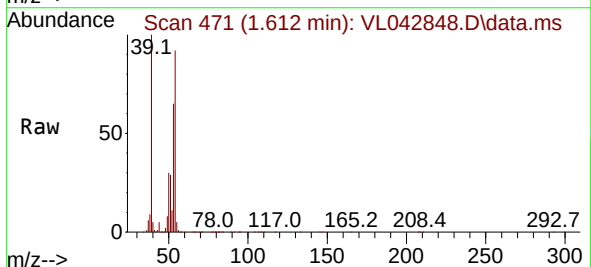
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDICC015

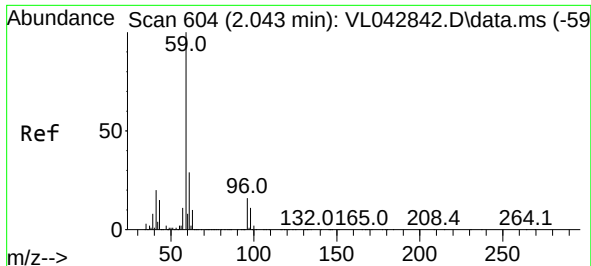
Tgt Ion: 43 Resp: 184116  
Ion Ratio Lower Upper  
43 100  
58 27.9 22.4 33.6



#16  
1,3-Butadiene  
Concen: 12.577 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 39 Resp: 92068  
Ion Ratio Lower Upper  
39 100  
54 79.7 63.6 95.4

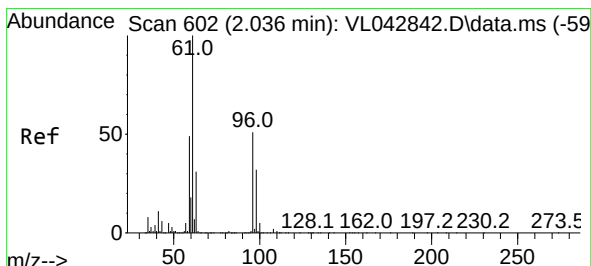
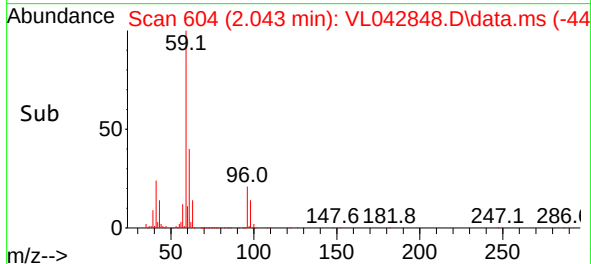
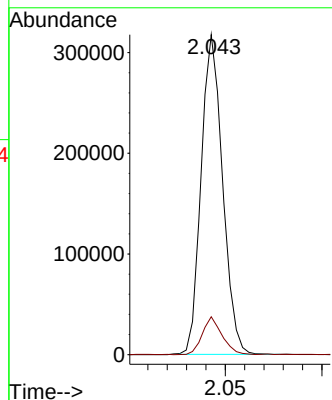
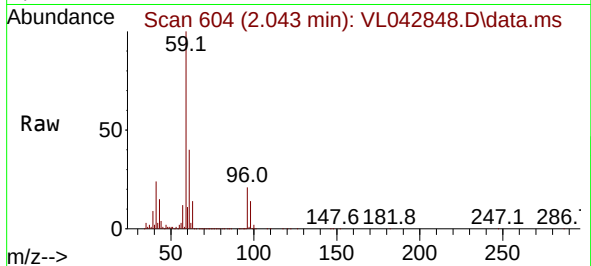




#17  
tert-Butyl alcohol  
Concen: 12.765 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

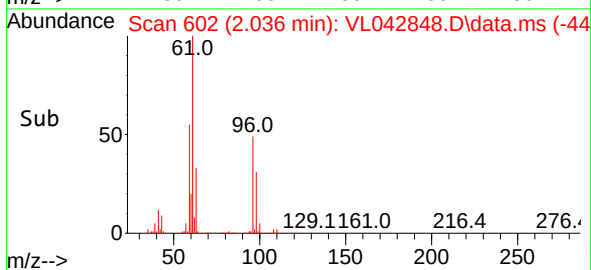
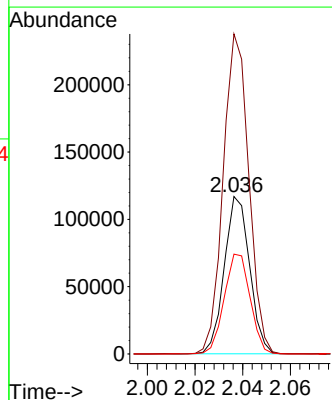
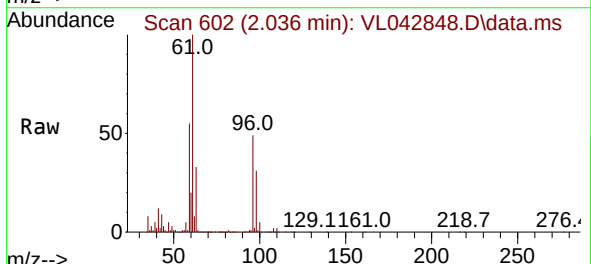
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC015

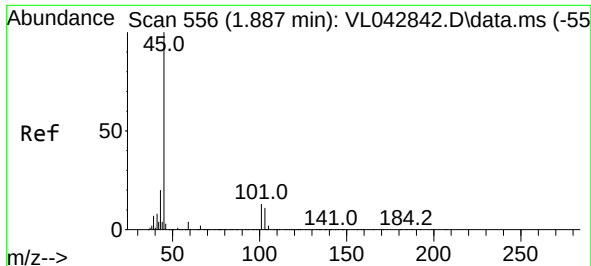
Tgt Ion: 59 Resp: 244441  
Ion Ratio Lower Upper  
59 100  
57 11.3 9.0 13.4



#18  
1,1-Dichloroethene  
Concen: 13.961 ppbv  
RT: 2.036 min Scan# 602  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 96 Resp: 86349  
Ion Ratio Lower Upper  
96 100  
61 203.3 158.2 237.4  
98 63.3 50.6 76.0

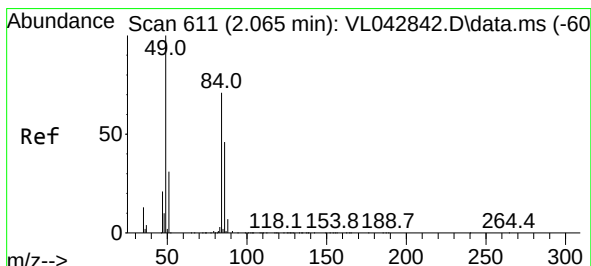
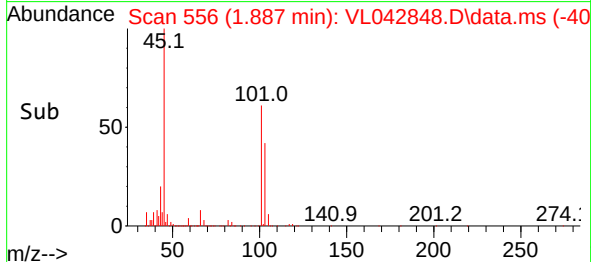
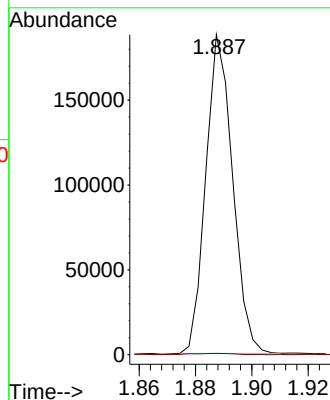
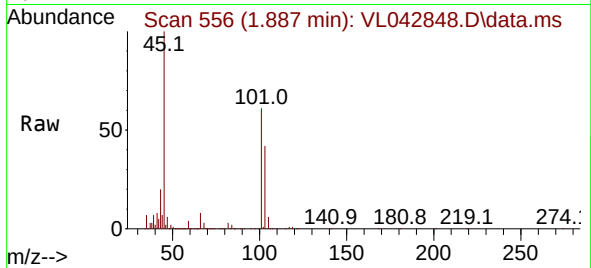




#19  
Isopropyl Alcohol  
Concen: 12.885 ppbv  
RT: 1.887 min Scan# 556  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

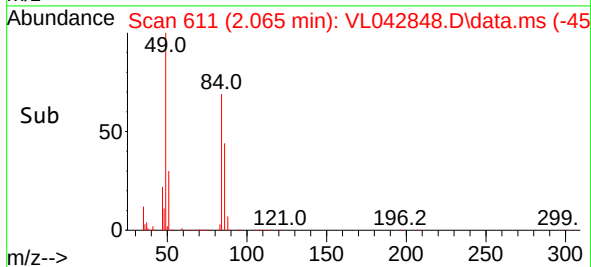
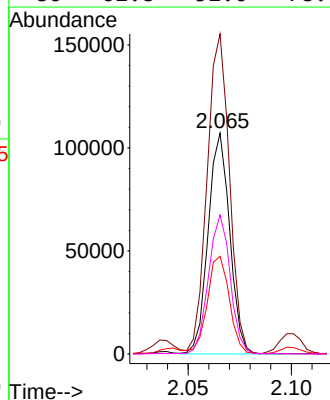
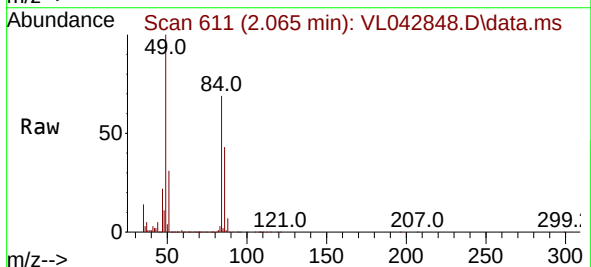
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

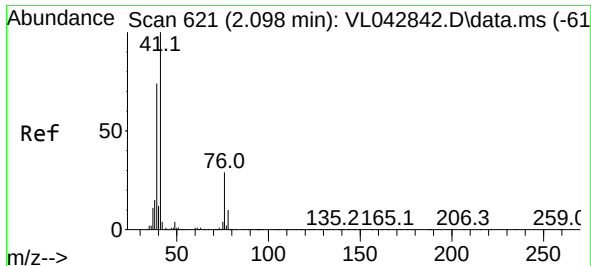
Tgt Ion: 45 Resp: 124270  
Ion Ratio Lower Upper  
45 100  
58 41.3 32.7 49.1



#20  
Methylene Chloride  
Concen: 11.494 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 84 Resp: 77749  
Ion Ratio Lower Upper  
84 100  
49 143.1 112.3 168.5  
51 42.5 36.0 54.0  
86 62.8 52.0 78.0

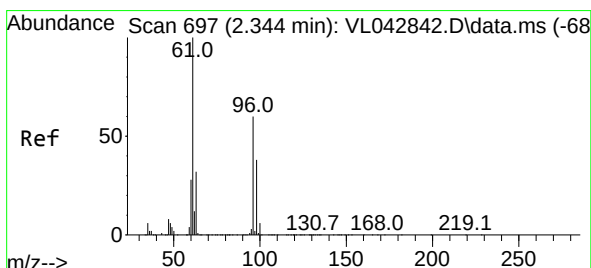
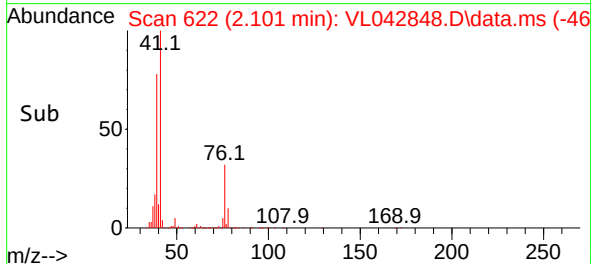
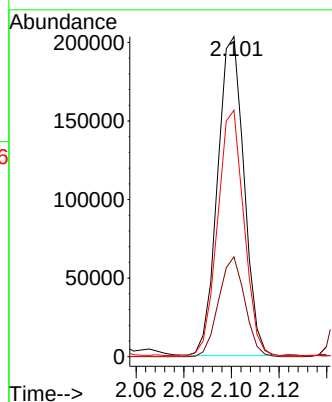
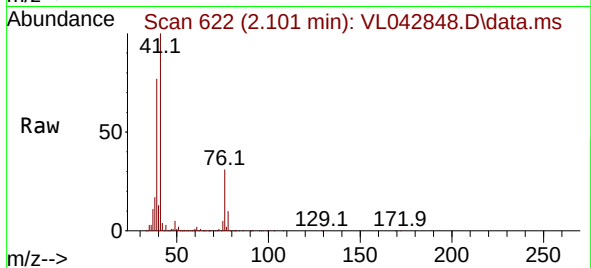




#21  
 Allyl Chloride  
 Concen: 13.703 ppbv  
 RT: 2.101 min Scan# 61  
 Delta R.T. 0.003 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

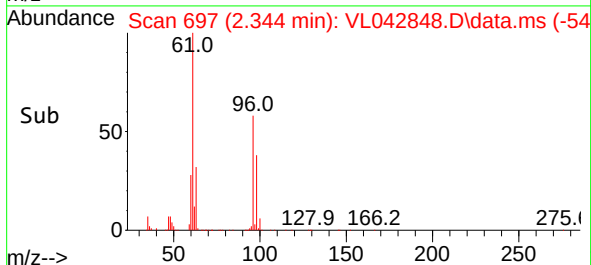
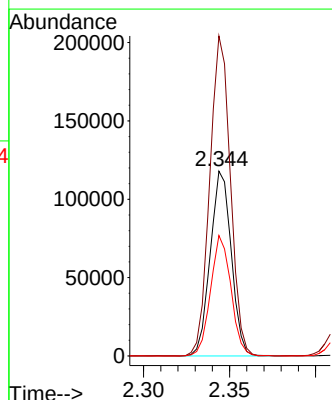
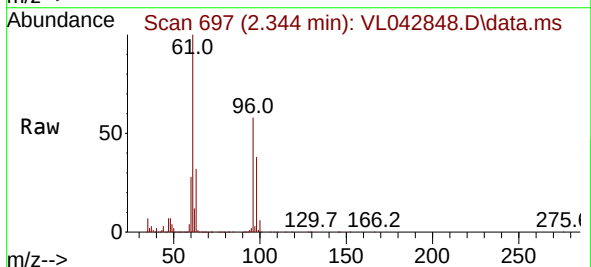
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

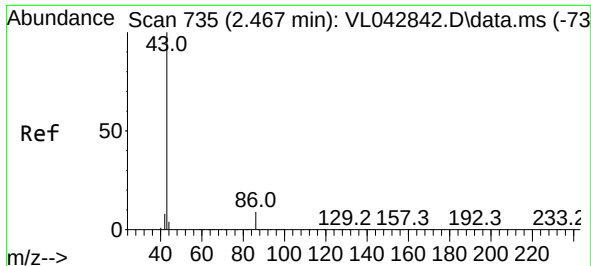
Tgt Ion: 41 Resp: 156318  
 Ion Ratio Lower Upper  
 41 100  
 76 30.9 23.9 35.9  
 39 76.9 57.8 86.6



#22  
 trans-1,2-Dichloroethene  
 Concen: 14.465 ppbv  
 RT: 2.344 min Scan# 697  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Tgt Ion: 96 Resp: 100064  
 Ion Ratio Lower Upper  
 96 100  
 61 173.1 132.6 199.0  
 98 65.2 50.0 75.0



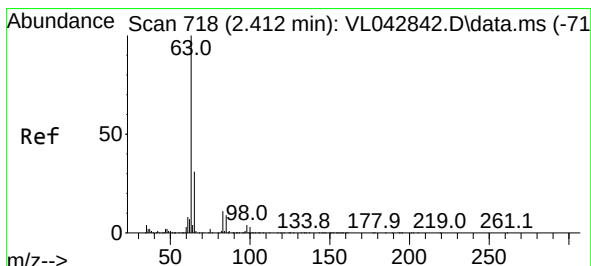
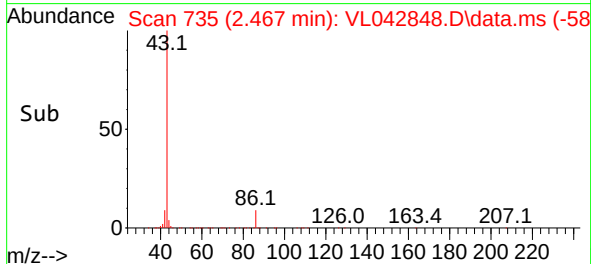
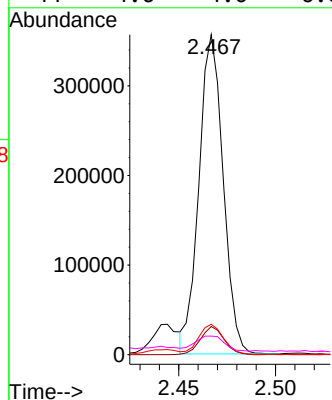
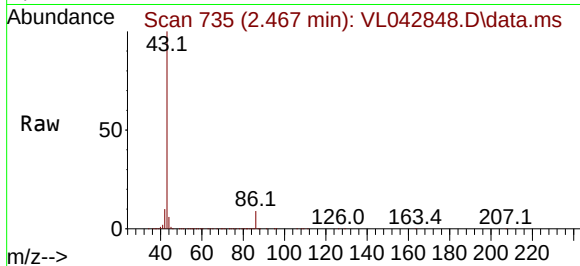


#23  
 Vinyl Acetate  
 Concen: 14.557 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

Tgt Ion: 43 Resp: 309236

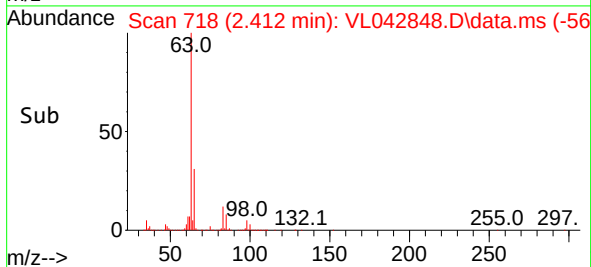
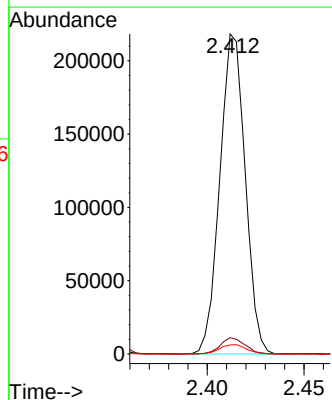
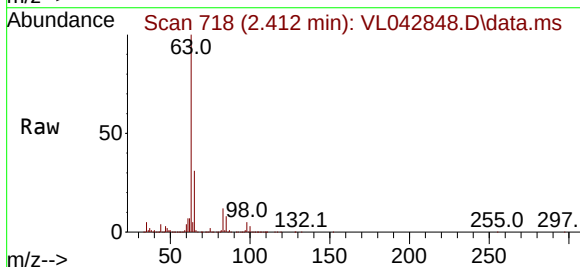
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 8.8   | 6.6   | 9.8   |
| 42  | 9.4   | 7.0   | 10.6  |
| 44  | 4.6   | 4.0   | 6.0   |

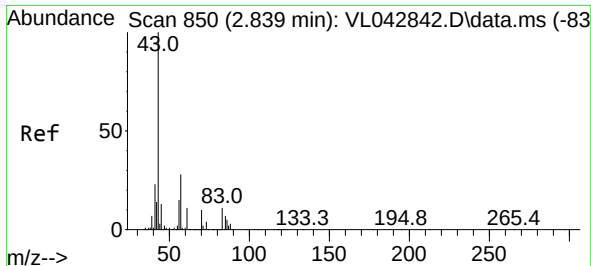


#24  
 1,1-Dichloroethane  
 Concen: 13.944 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Tgt Ion: 63 Resp: 199276

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 5.1   | 2.1   | 6.5   |
| 100 | 2.8   | 1.7   | 5.1   |

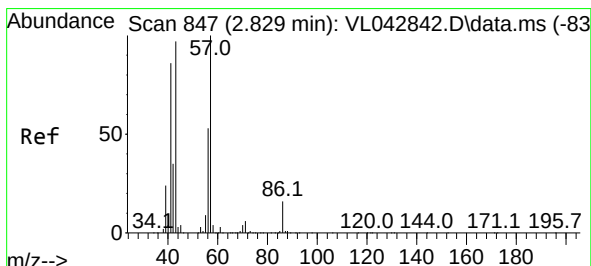
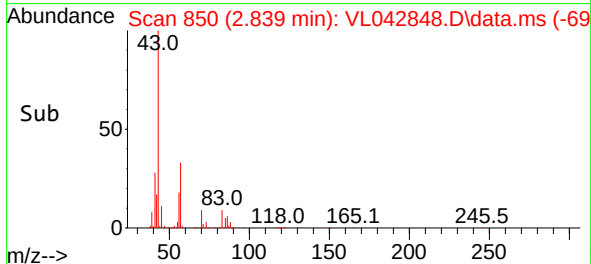
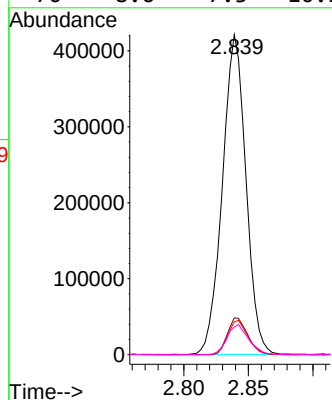
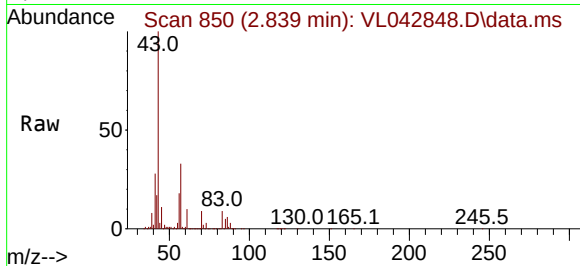




#25  
Ethyl Acetate  
Concen: 13.653 ppbv  
RT: 2.839 min Scan# 81  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

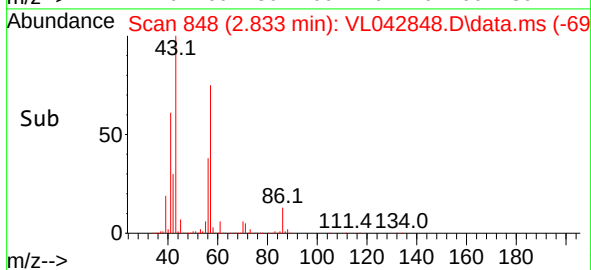
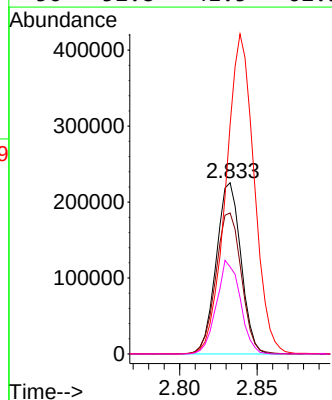
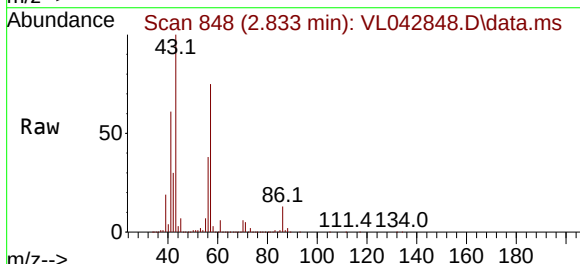
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 533600 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.0  | 8.1   | 12.1   |
| 61       | 9.2   | 7.4   | 11.2   |
| 70       | 8.6   | 7.3   | 10.9   |

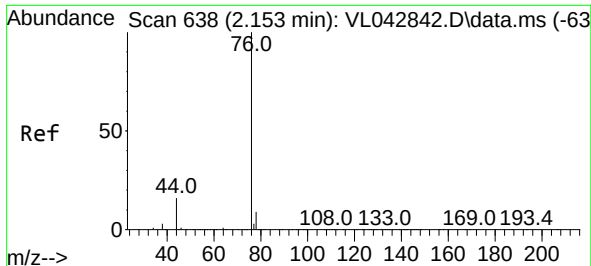


#26  
Hexane  
Concen: 13.869 ppbv  
RT: 2.833 min Scan# 848  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 250189 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 85.8  | 68.6  | 103.0  |
| 43       | 214.3 | 168.5 | 252.7  |
| 56       | 52.8  | 41.5  | 62.3   |



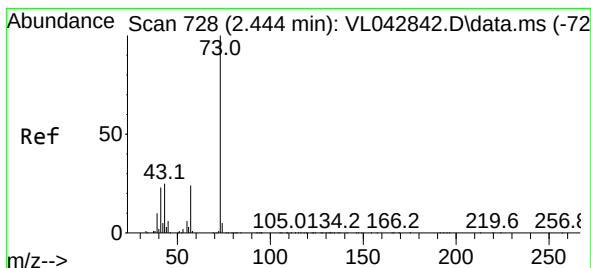
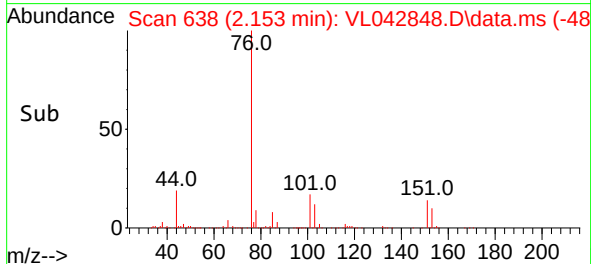
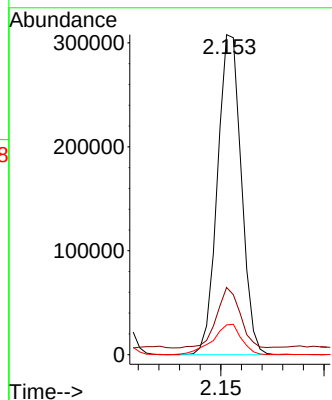
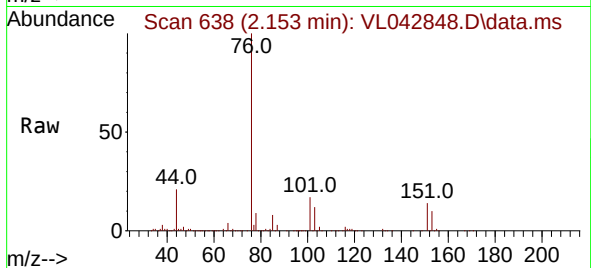




#27  
Carbon Disulfide  
Concen: 14.062 ppbv  
RT: 2.153 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

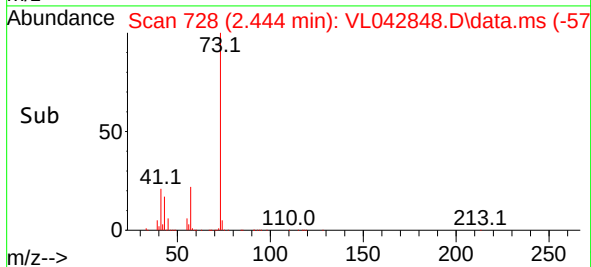
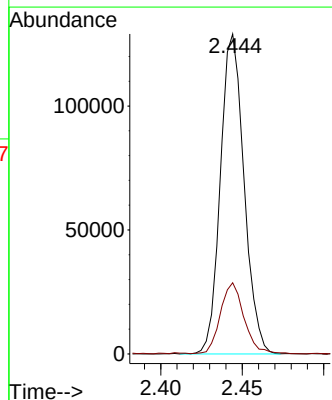
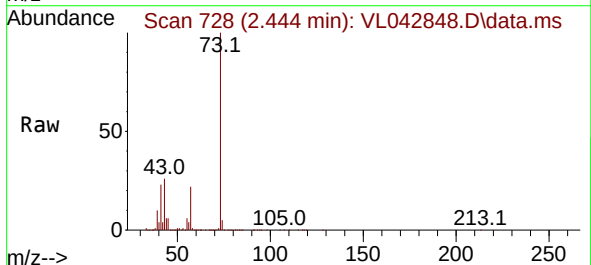
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

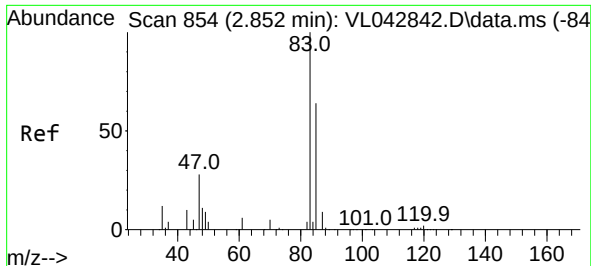
Tgt Ion: 76 Resp: 246868  
Ion Ratio Lower Upper  
76 100  
44 19.7 15.9 23.9  
78 11.4 9.5 14.3



#28  
Methyl tert-Butyl Ether  
Concen: 14.131 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 73 Resp: 129978  
Ion Ratio Lower Upper  
73 100  
57 22.5 21.6 32.4

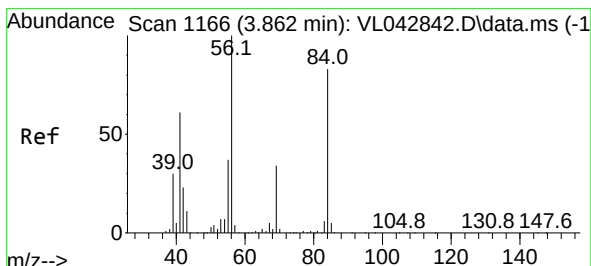
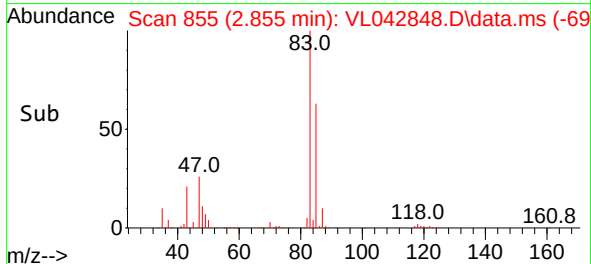
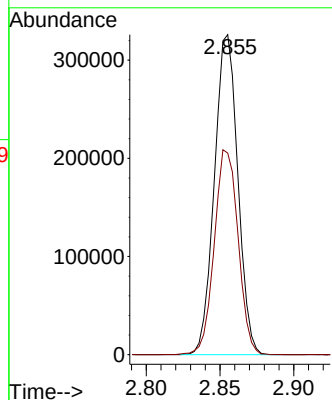
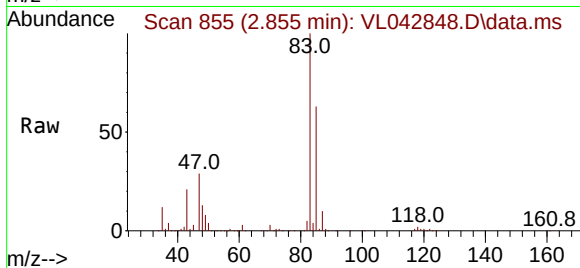




#29  
Chloroform  
Concen: 14.003 ppbv  
RT: 2.855 min Scan# 81  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

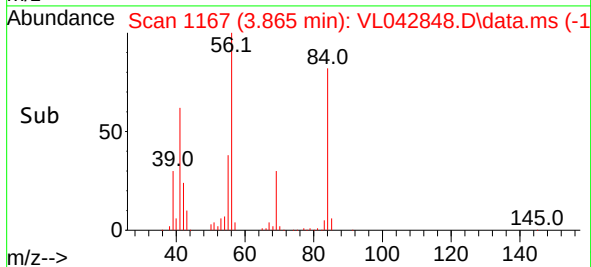
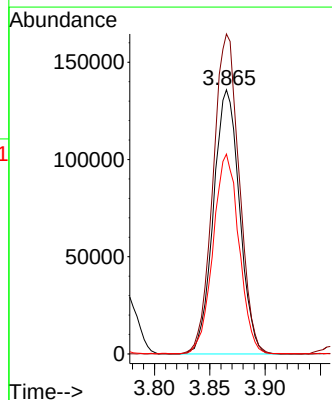
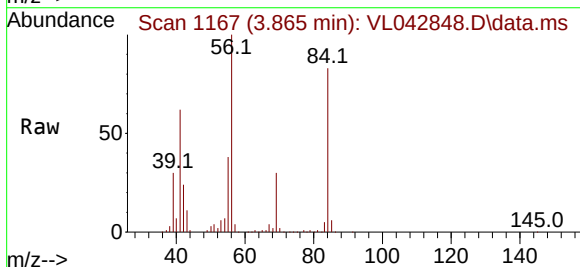
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

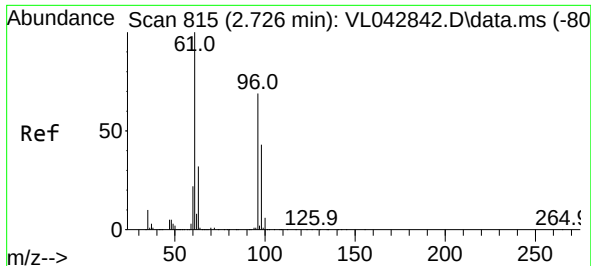
Tgt Ion: 83 Resp: 360661  
Ion Ratio Lower Upper  
83 100  
85 63.0 51.1 76.7



#30  
Cyclohexane  
Concen: 14.088 ppbv  
RT: 3.865 min Scan# 1167  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 84 Resp: 222820  
Ion Ratio Lower Upper  
84 100  
56 121.5 98.8 148.2  
41 75.1 61.3 91.9

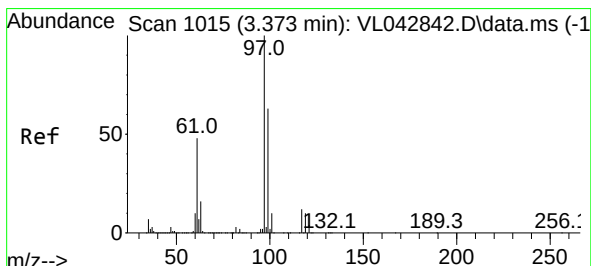
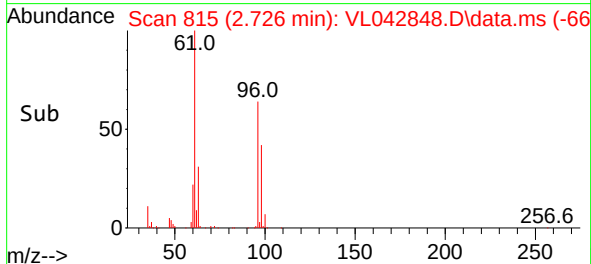
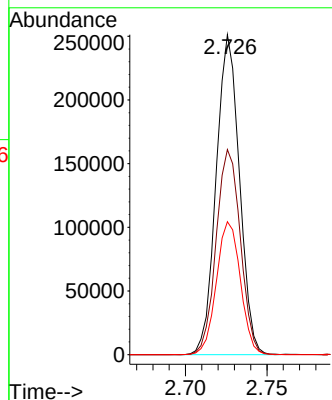
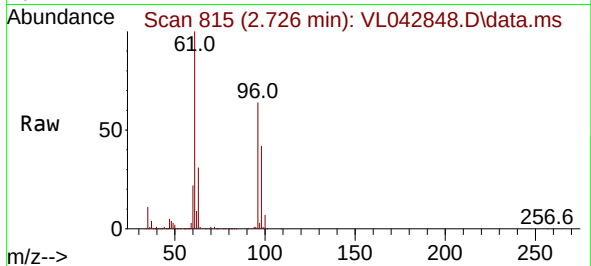




#31  
 cis-1,2-Dichloroethene  
 Concen: 13.821 ppbv  
 RT: 2.726 min Scan# 815  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

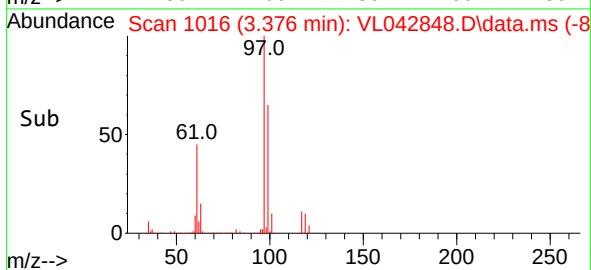
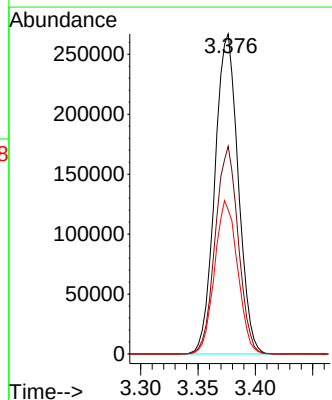
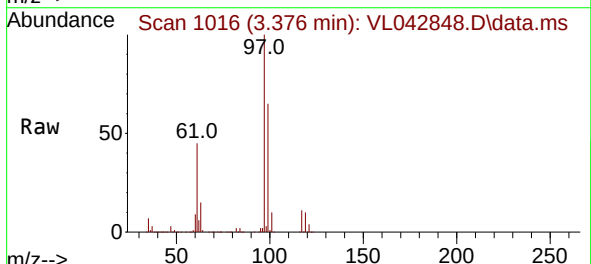
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDIC015

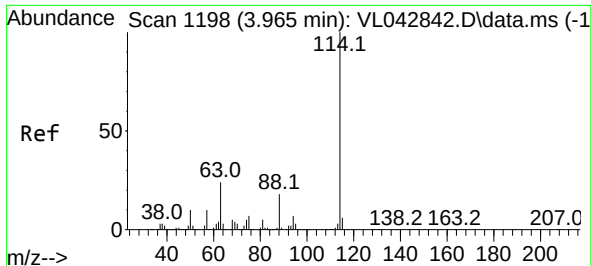
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 61    | Resp: | 249376 |
| Ion      | Ratio | Lower | Upper  |
| 61       | 100   |       |        |
| 96       | 64.1  | 55.0  | 82.6   |
| 98       | 41.6  | 34.3  | 51.5   |



#32  
 1,1,1-Trichloroethane  
 Concen: 13.851 ppbv  
 RT: 3.376 min Scan# 1016  
 Delta R.T. 0.003 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 377739 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.7  | 51.0  | 76.6   |
| 61       | 47.2  | 38.0  | 57.0   |

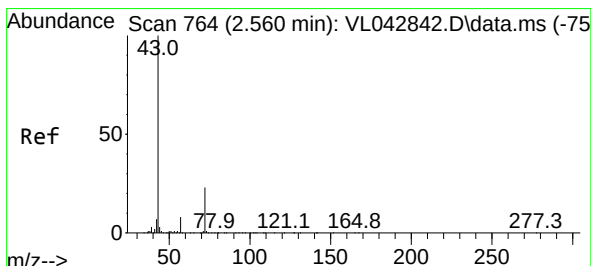
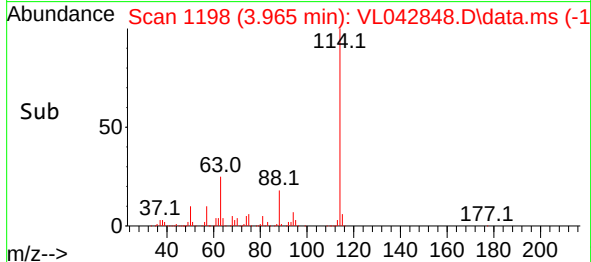
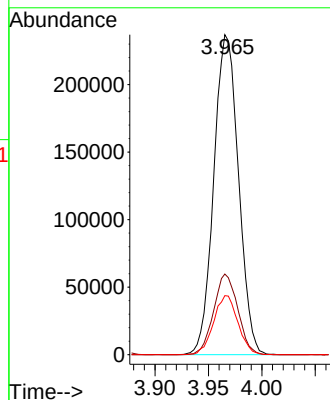
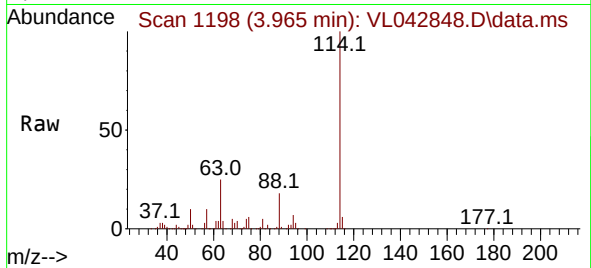




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.965 min Scan# 1198  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

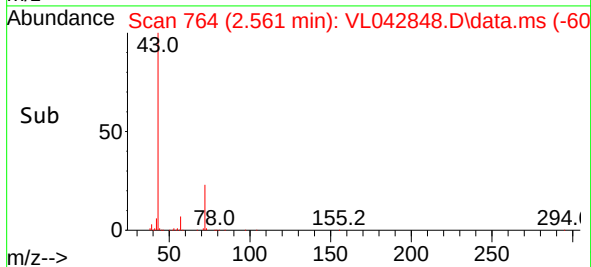
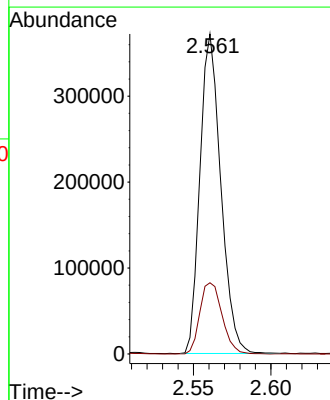
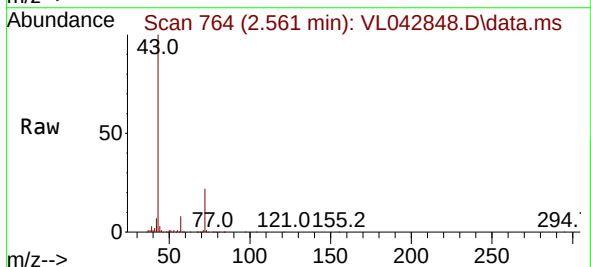
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDICC015

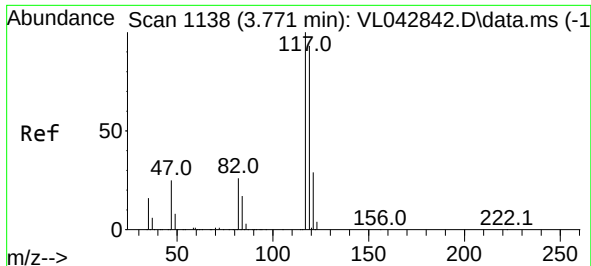
Tgt Ion:114 Resp: 380877  
Ion Ratio Lower Upper  
114 100  
63 24.6 19.7 29.5  
88 18.1 14.4 21.6



#34  
2-Butanone  
Concen: 13.563 ppbv  
RT: 2.561 min Scan# 764  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 348815  
Ion Ratio Lower Upper  
43 100  
72 23.8 18.6 28.0

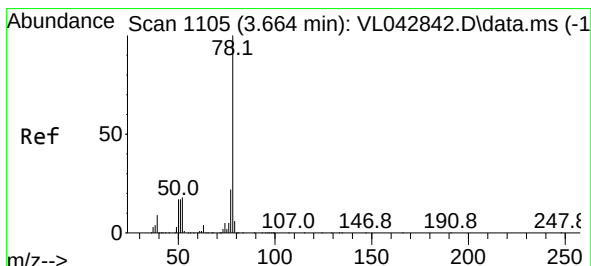
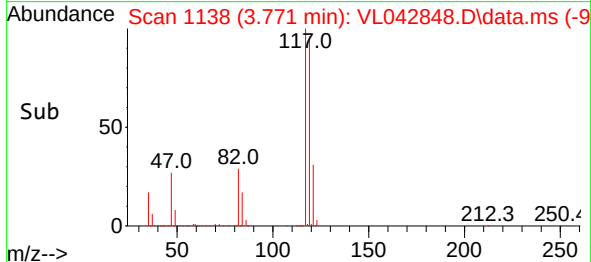
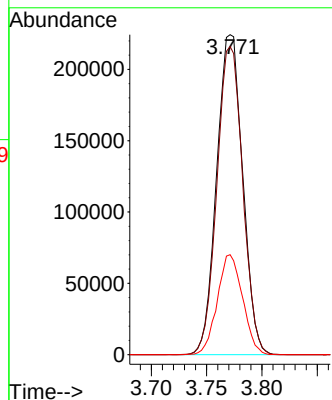
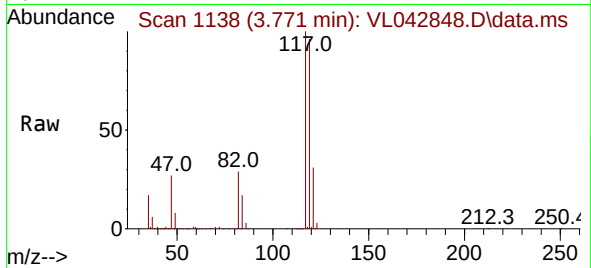




#35  
Carbon Tetrachloride  
Concen: 13.990 ppbv  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

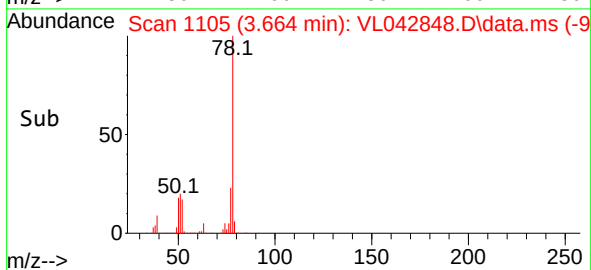
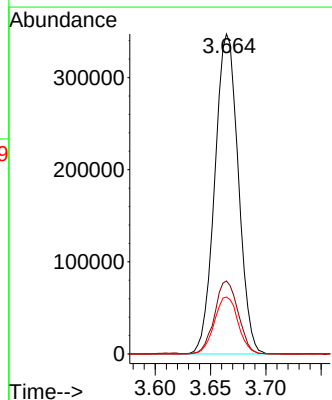
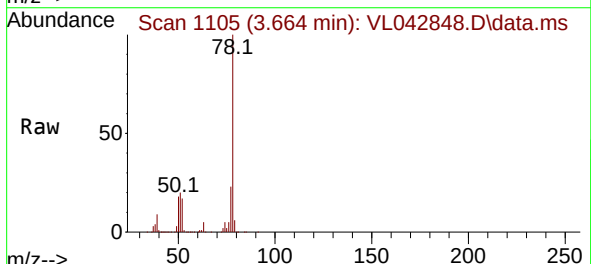
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

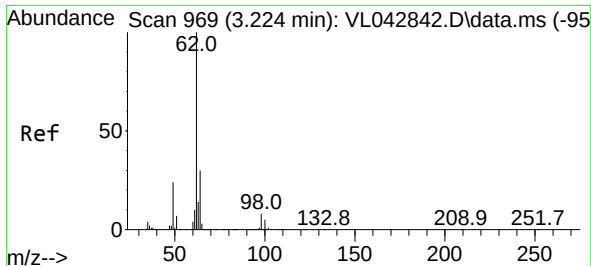
Tgt Ion:117 Resp: 367354  
Ion Ratio Lower Upper  
117 100  
119 96.3 74.7 112.1  
121 31.2 23.2 34.8



#36  
Benzene  
Concen: 14.033 ppbv  
RT: 3.664 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 78 Resp: 511811  
Ion Ratio Lower Upper  
78 100  
77 22.8 17.7 26.5  
50 17.8 13.9 20.9





#37

1,2-Dichloroethane

Concen: 14.639 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

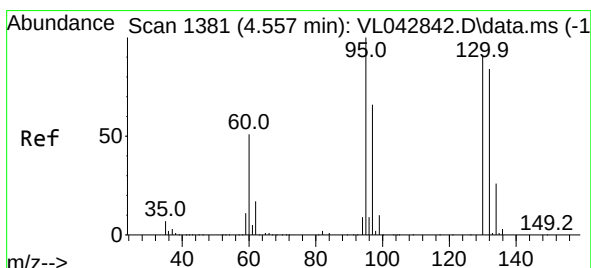
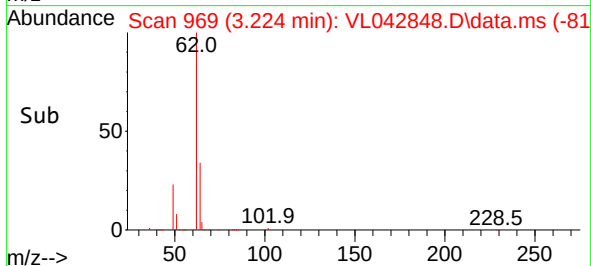
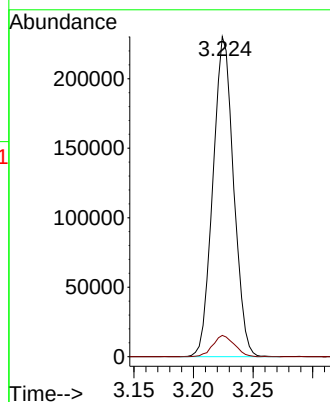
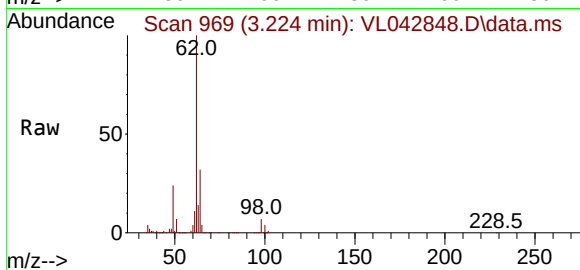
VSTDIC015

Tgt Ion: 62 Resp: 278934

Ion Ratio Lower Upper

62 100

98 6.9 5.9 8.9



#38

Trichloroethene

Concen: 13.634 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion:130 Resp: 227091

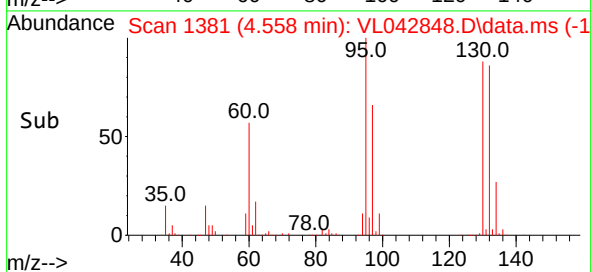
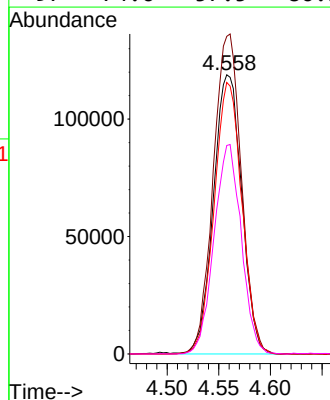
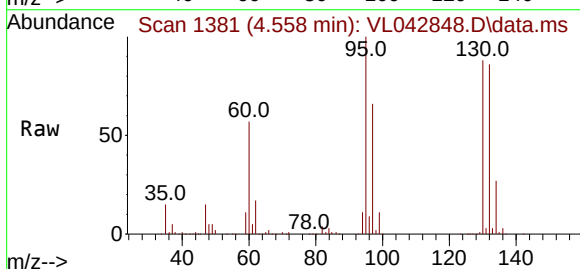
Ion Ratio Lower Upper

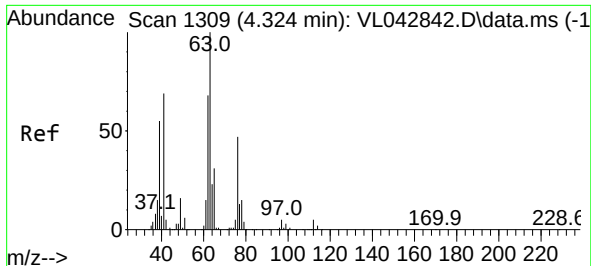
130 100

95 113.8 87.6 131.4

132 97.3 73.8 110.8

97 74.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 13.984 ppbv

RT: 4.325 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDIC015

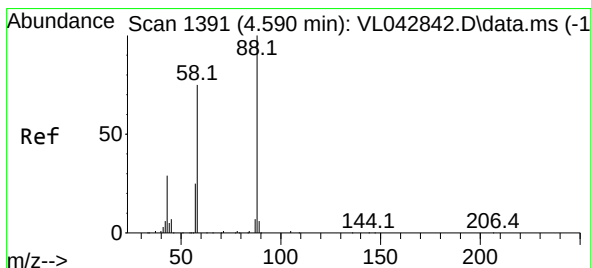
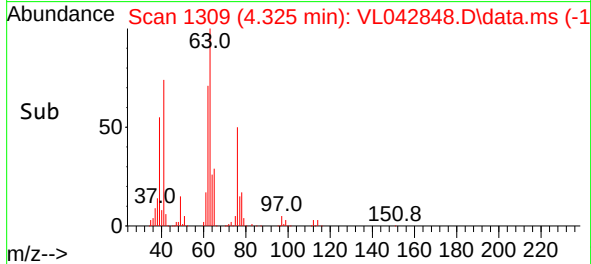
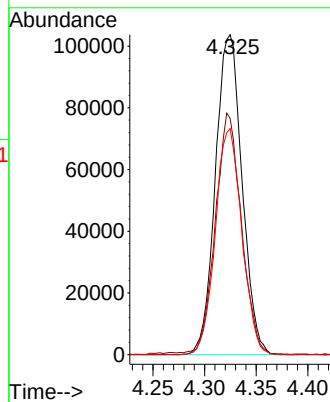
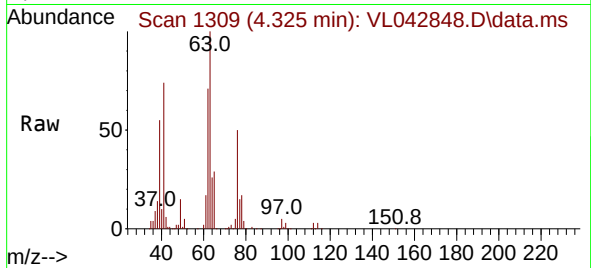
Tgt Ion: 63 Resp: 186277

Ion Ratio Lower Upper

63 100

41 73.5 55.0 82.4

62 70.6 54.4 81.6



#40

1,4-Dioxane

Concen: 13.212 ppbv

RT: 4.593 min Scan# 1392

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Tgt Ion: 88 Resp: 82385

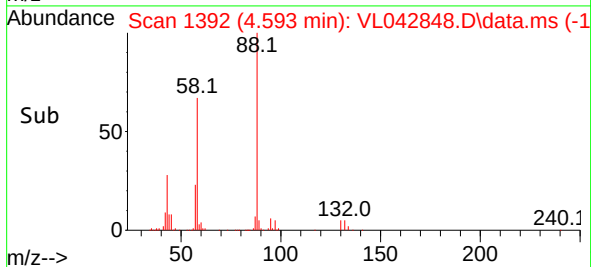
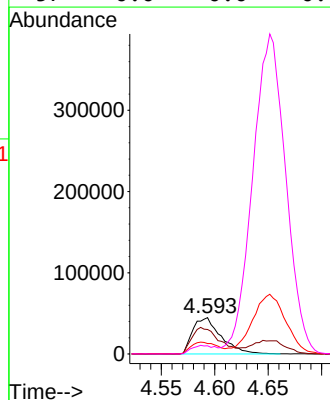
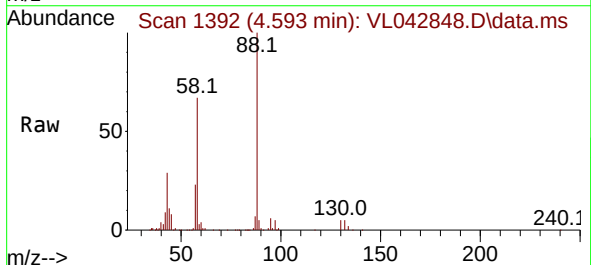
Ion Ratio Lower Upper

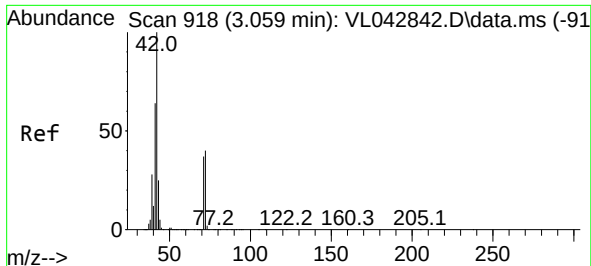
88 100

58 73.5 53.8 80.6

43 33.9 22.8 34.2

57 0.0 0.0 0.0

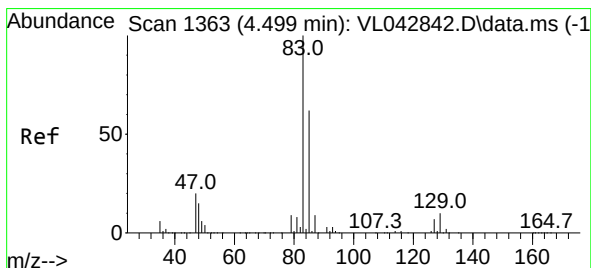
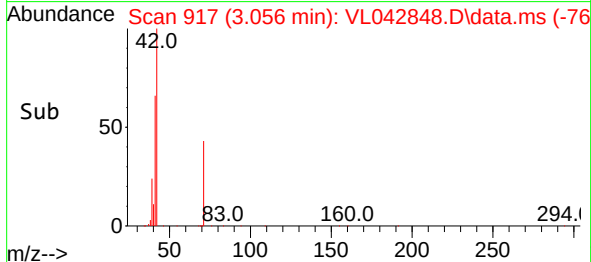
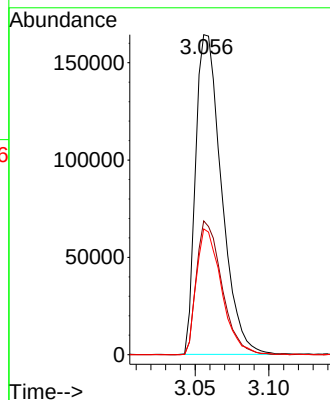
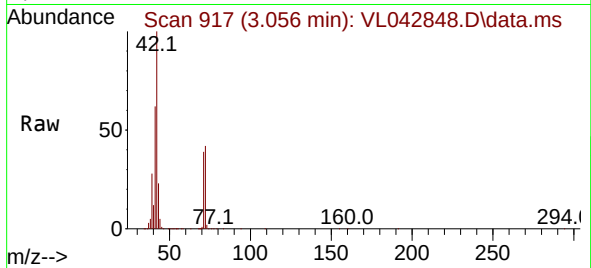




#41  
Tetrahydrofuran  
Concen: 14.001 ppbv  
RT: 3.056 min Scan# 918  
Delta R.T. -0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

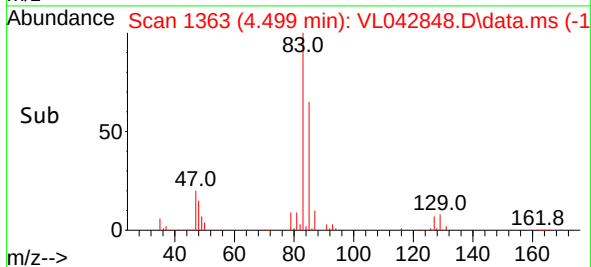
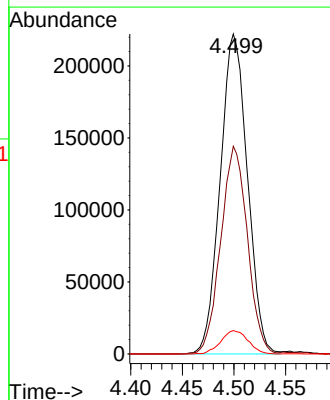
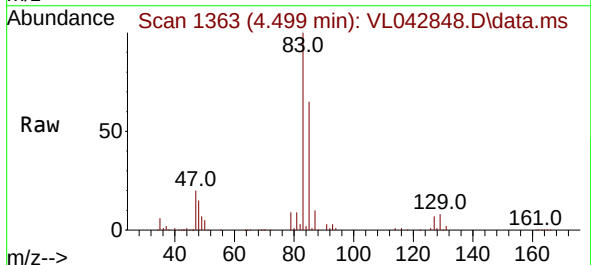
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

Tgt Ion: 42 Resp: 200751  
Ion Ratio Lower Upper  
42 100  
72 41.0 32.6 48.8  
71 38.4 30.0 45.0

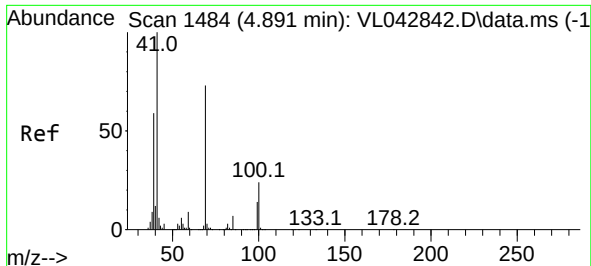


#42  
Bromodichloromethane  
Concen: 14.372 ppbv  
RT: 4.499 min Scan# 1363  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 83 Resp: 408089  
Ion Ratio Lower Upper  
83 100  
85 64.9 49.8 74.8  
127 7.3 5.8 8.6



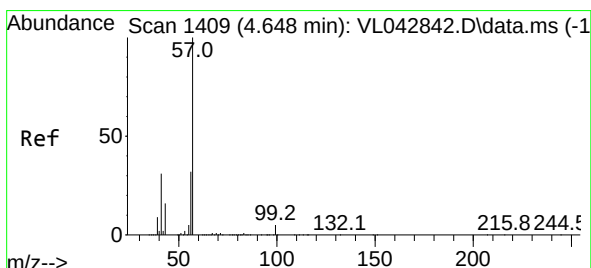
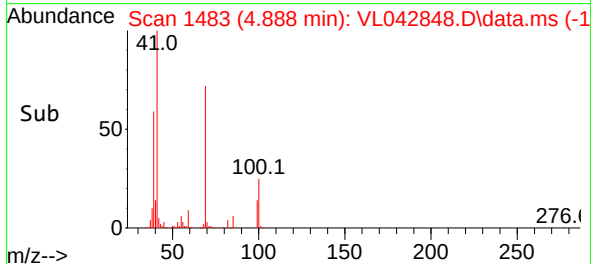
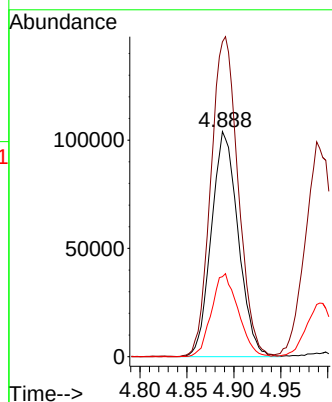
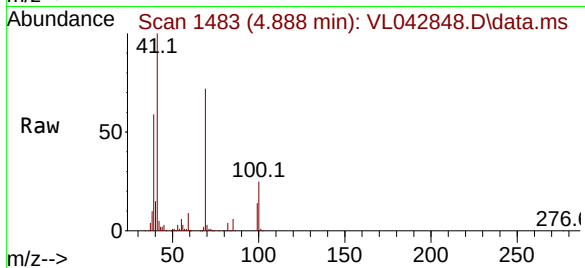




#43  
Methyl Methacrylate  
Concen: 13.808 ppbv  
RT: 4.888 min Scan# 1410  
Delta R.T. -0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

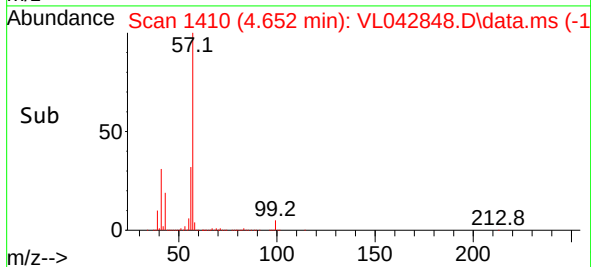
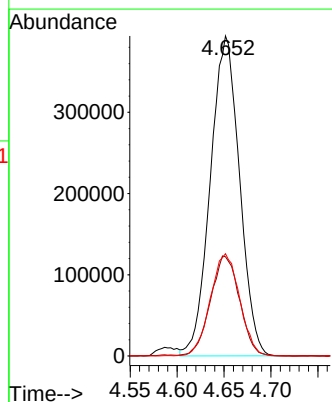
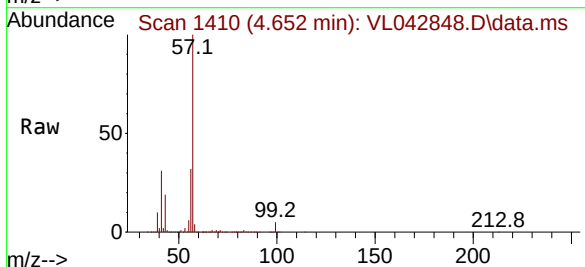
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

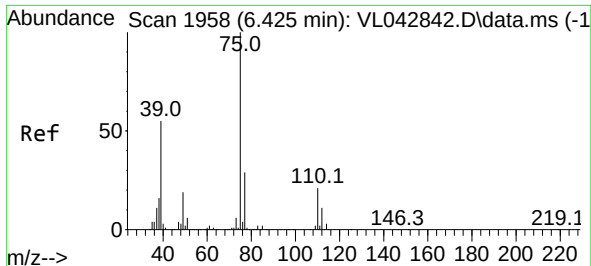
Tgt Ion: 69 Resp: 206590  
Ion Ratio Lower Upper  
69 100  
41 144.8 114.6 172.0  
100 36.8 30.2 45.4



#44  
2,2,4-Trimethylpentane  
Concen: 13.895 ppbv  
RT: 4.652 min Scan# 1410  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 57 Resp: 850847  
Ion Ratio Lower Upper  
57 100  
41 31.5 24.8 37.2  
56 32.1 25.5 38.3

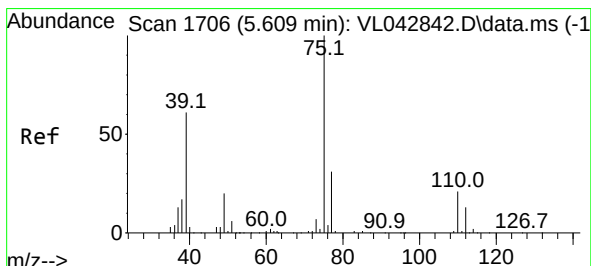
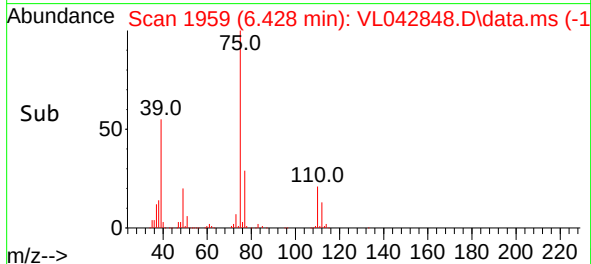
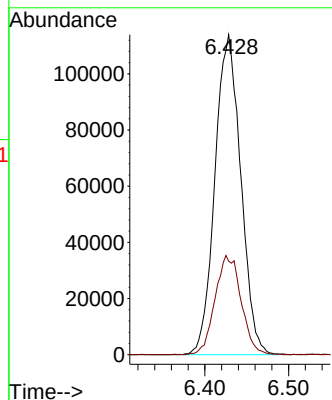
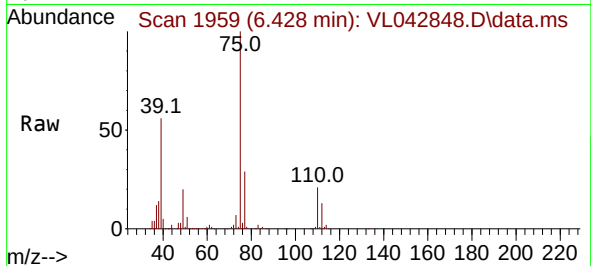




#45  
 t-1,3-Dichloropropene  
 Concen: 14.387 ppbv  
 RT: 6.428 min Scan# 1958  
 Delta R.T. 0.003 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

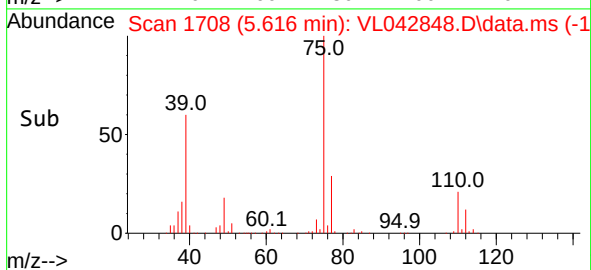
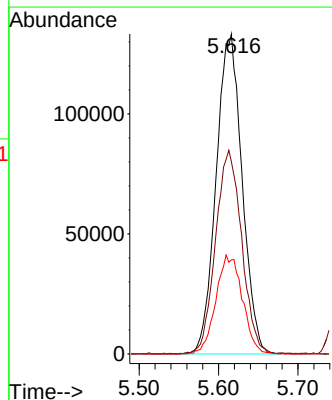
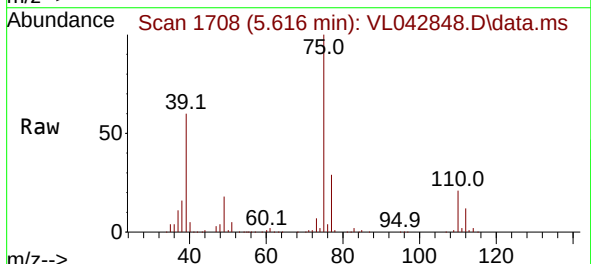
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

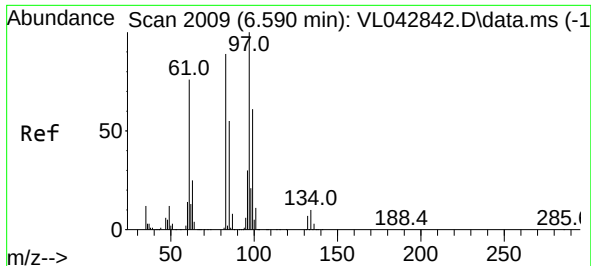
Tgt Ion: 75 Resp: 244117  
 Ion Ratio Lower Upper  
 75 100  
 77 29.2 23.8 35.6



#46  
 cis-1,3-Dichloropropene  
 Concen: 14.191 ppbv  
 RT: 5.616 min Scan# 1708  
 Delta R.T. 0.007 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Tgt Ion: 75 Resp: 302339  
 Ion Ratio Lower Upper  
 75 100  
 39 59.9 48.9 73.3  
 77 29.4 24.9 37.3

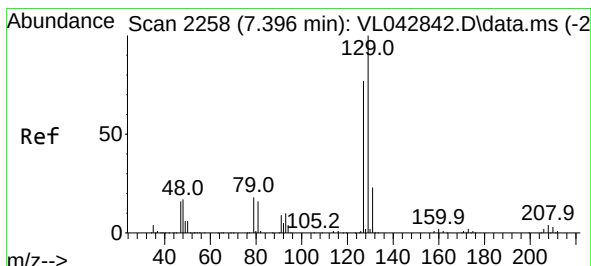
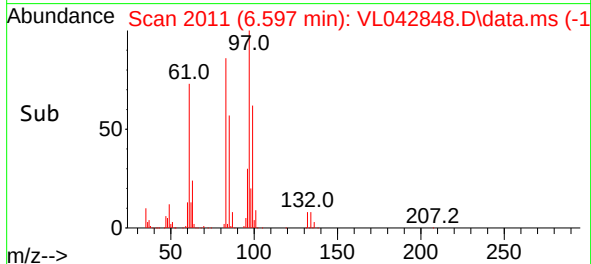
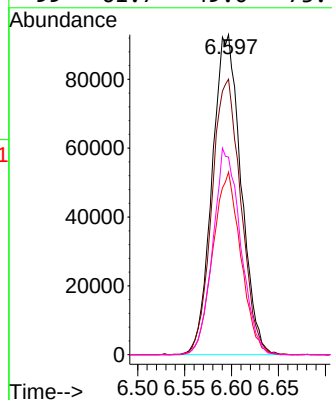
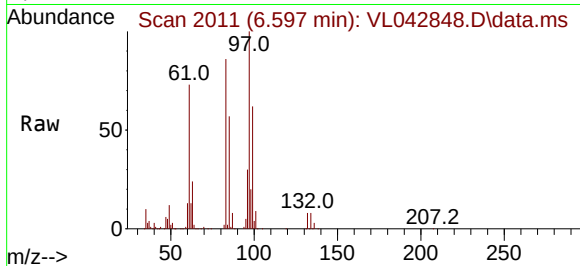




#47  
1,1,2-Trichloroethane  
Concen: 14.118 ppbv  
RT: 6.597 min Scan# 2009  
Delta R.T. 0.007 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

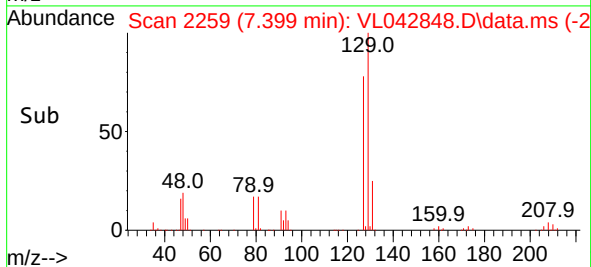
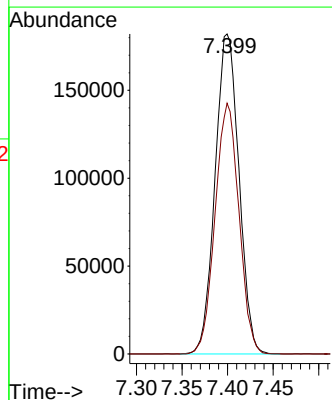
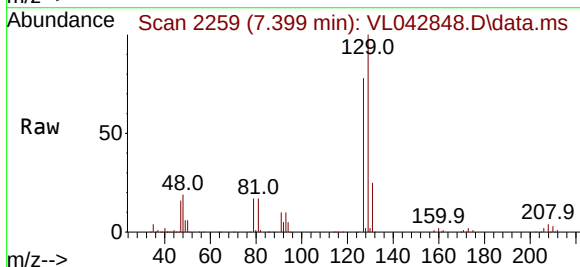
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

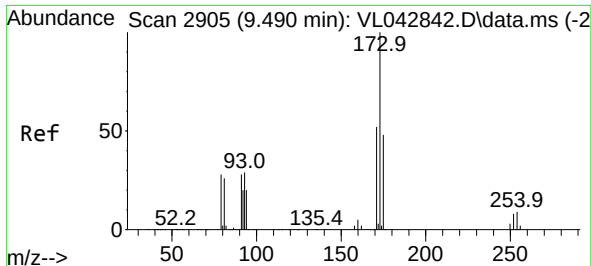
| Tgt Ion: 97 | Resp: 199067 |       |       |
|-------------|--------------|-------|-------|
| Ion         | Ratio        | Lower | Upper |
| 97          | 100          |       |       |
| 83          | 86.0         | 71.0  | 106.4 |
| 85          | 57.0         | 43.6  | 65.4  |
| 99          | 61.7         | 49.0  | 73.4  |



#48  
Dibromochloromethane  
Concen: 14.535 ppbv  
RT: 7.399 min Scan# 2259  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

|             |              |       |  |
|-------------|--------------|-------|--|
| Tgt Ion:129 | Resp: 331947 |       |  |
| Ion Ratio   | Lower        | Upper |  |
| 129 100     |              |       |  |
| 127 78.4    | 39.4         | 118.2 |  |

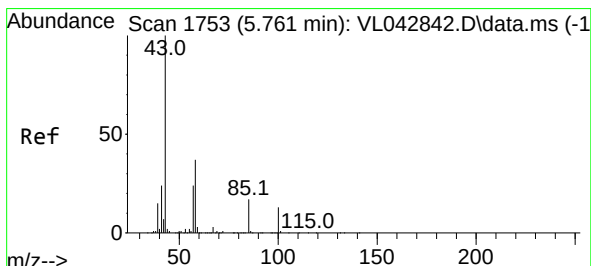
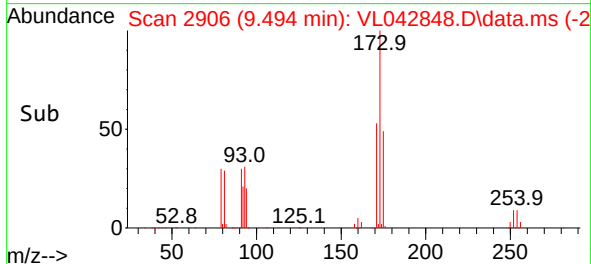
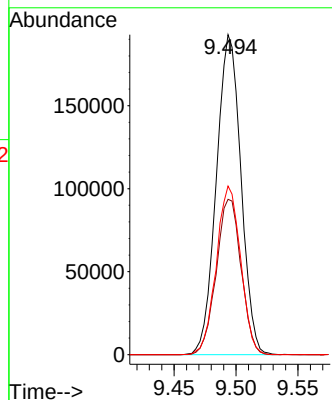
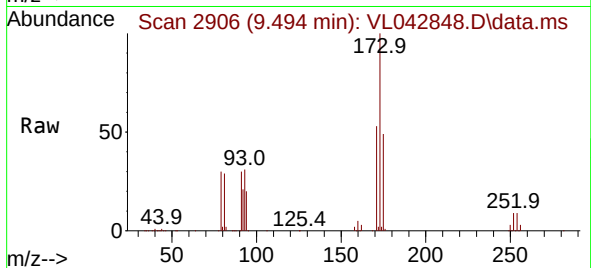




#49  
Bromoform  
Concen: 14.162 ppbv  
RT: 9.494 min Scan# 2905  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

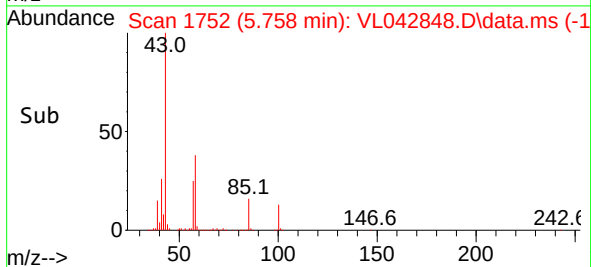
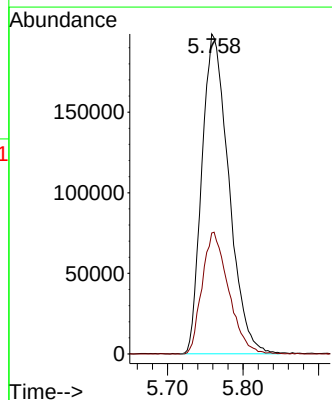
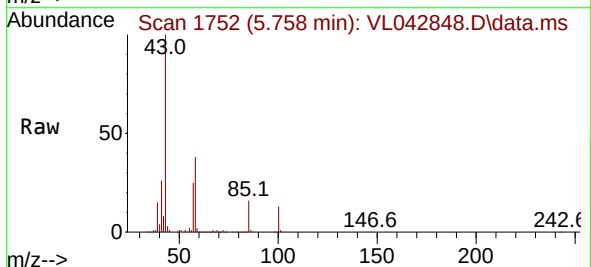
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

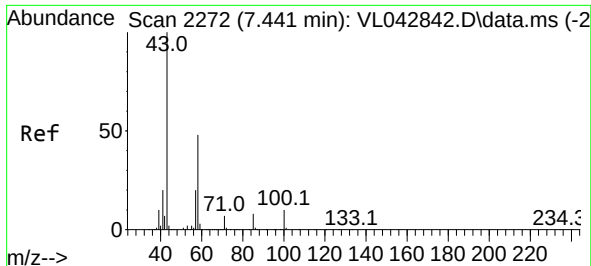
Tgt Ion:173 Resp: 266732  
Ion Ratio Lower Upper  
173 100  
175 49.2 39.2 58.8  
171 52.1 41.3 61.9



#50  
4-Methyl-2-Pentanone  
Concen: 14.073 ppbv  
RT: 5.758 min Scan# 1752  
Delta R.T. -0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 43 Resp: 490917  
Ion Ratio Lower Upper  
43 100  
58 37.5 29.8 44.8

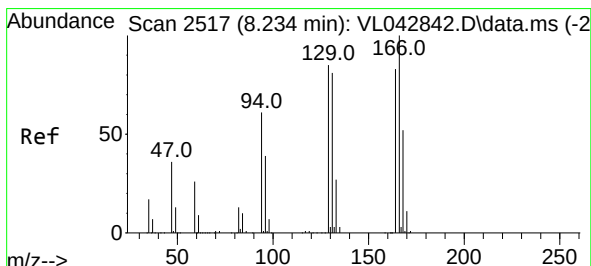
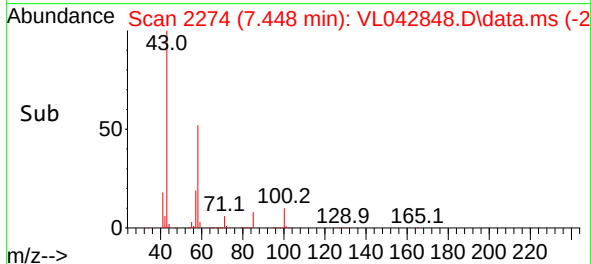
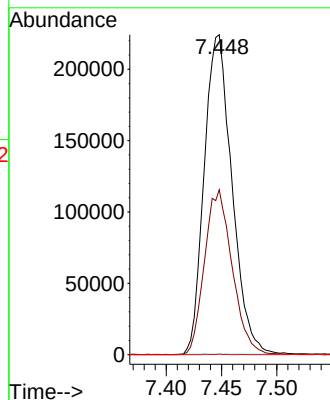
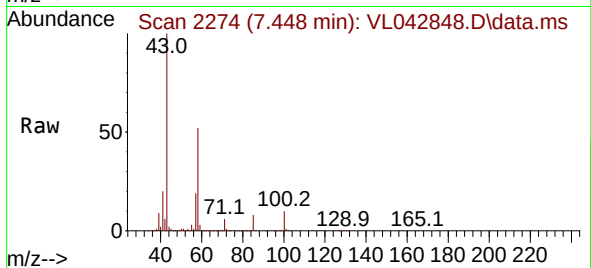




#51  
2-Hexanone  
Concen: 14.255 ppbv  
RT: 7.448 min Scan# 21  
Delta R.T. 0.007 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

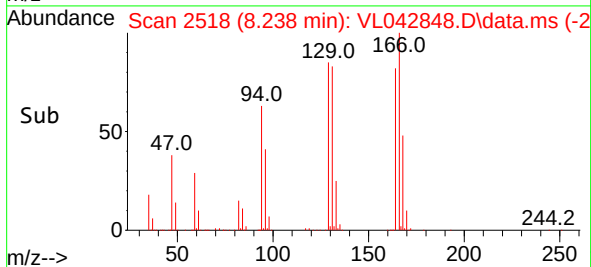
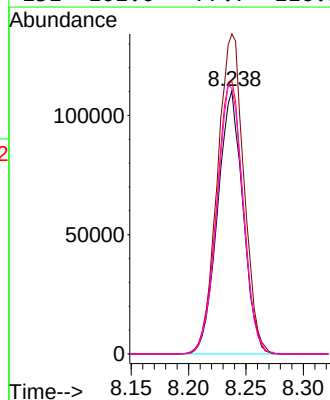
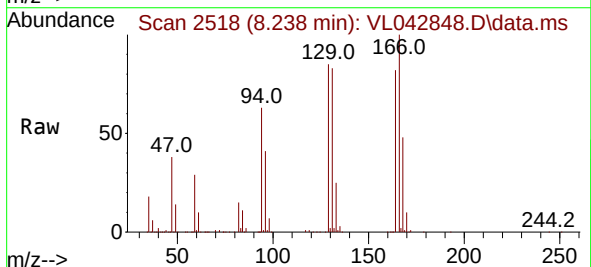
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

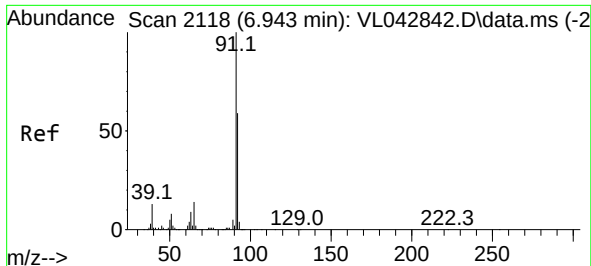
Tgt Ion: 43 Resp: 389940  
Ion Ratio Lower Upper  
43 100  
58 51.6 41.0 61.6  
98 0.1 0.1 0.1



#52  
Tetrachloroethene  
Concen: 12.772 ppbv  
RT: 8.238 min Scan# 2518  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 164 Resp: 168712  
Ion Ratio Lower Upper  
164 100  
166 121.7 96.5 144.7  
129 103.7 81.8 122.6  
131 101.0 77.7 116.5

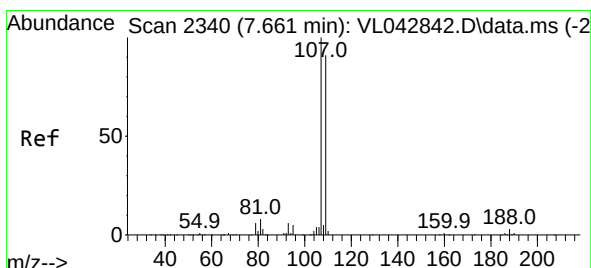
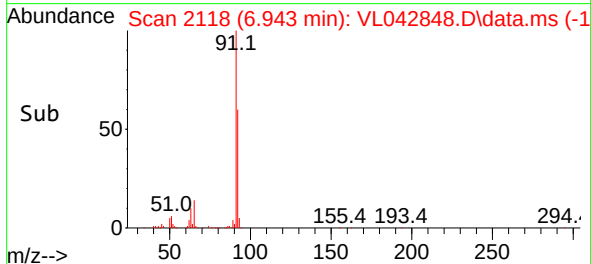
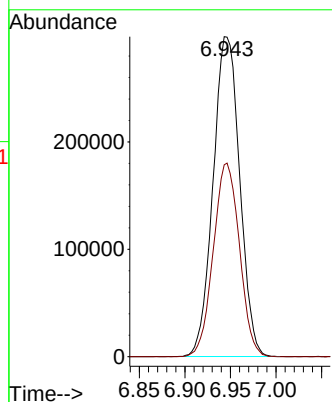
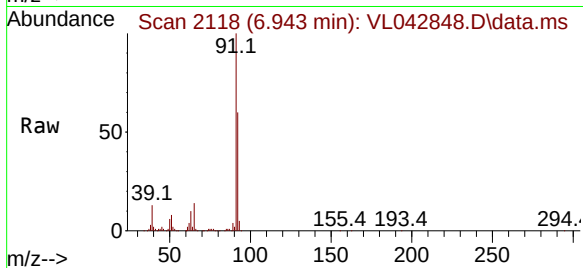




#53  
Toluene  
Concen: 13.961 ppbv  
RT: 6.943 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

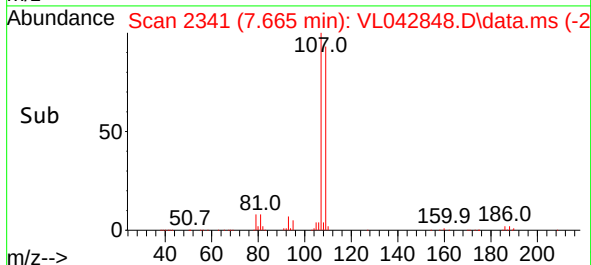
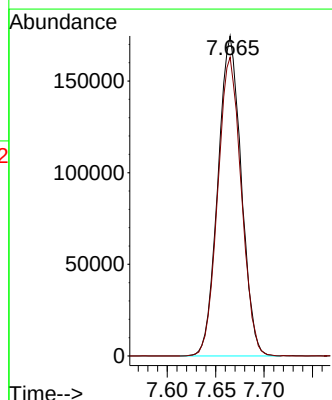
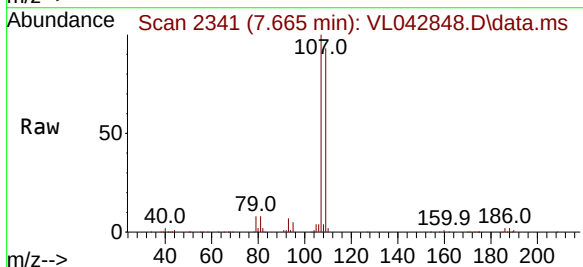
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

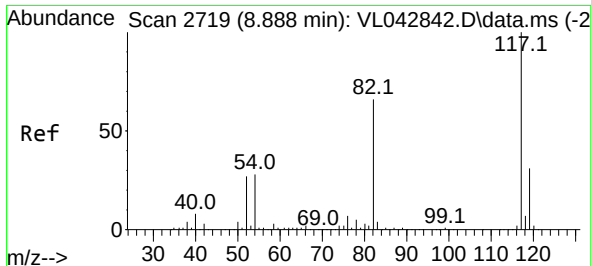
Tgt Ion: 91 Resp: 605941  
Ion Ratio Lower Upper  
91 100  
92 59.4 47.8 71.6



#54  
1,2-Dibromoethane  
Concen: 14.173 ppbv  
RT: 7.665 min Scan# 2341  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 107 Resp: 292327  
Ion Ratio Lower Upper  
107 100  
109 93.4 72.5 108.7

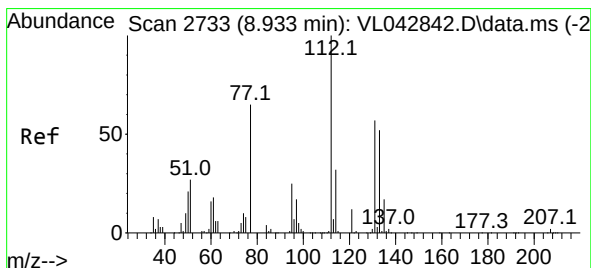
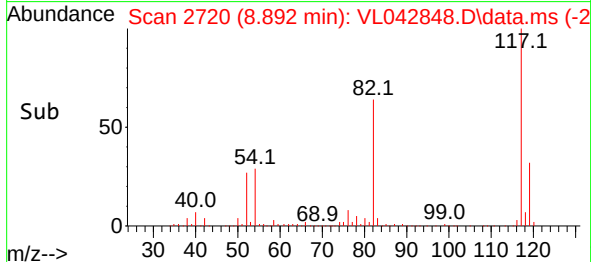
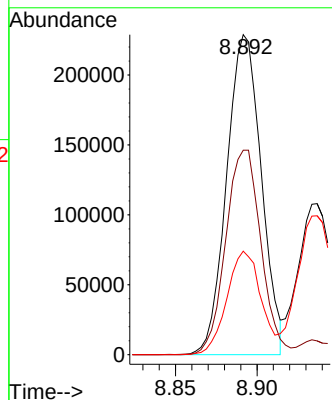
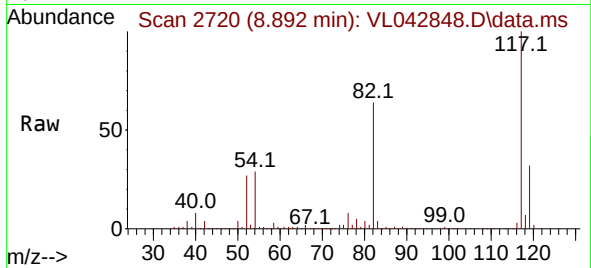




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.892 min Scan# 2117  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

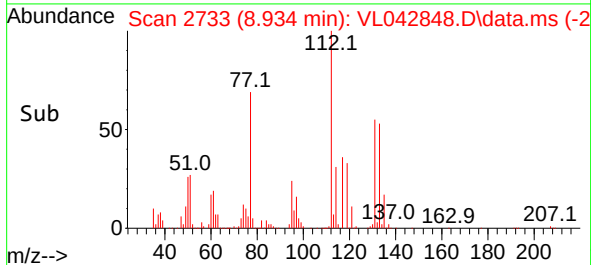
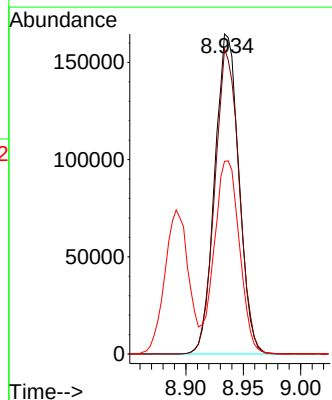
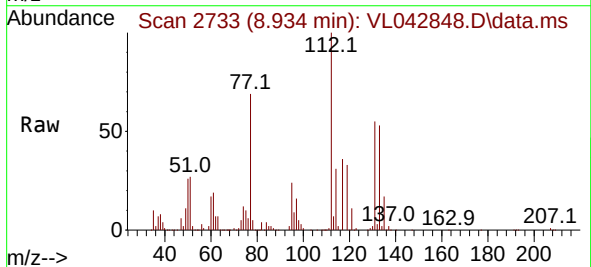
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

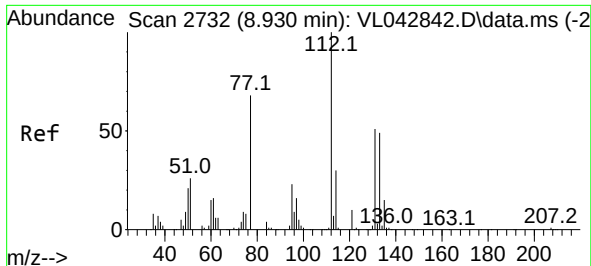
Tgt Ion:117 Resp: 337876  
Ion Ratio Lower Upper  
117 100  
82 65.3 54.6 81.8  
119 32.5 25.9 38.9



#56  
1,1,1,2-Tetrachloroethane  
Concen: 13.810 ppbv  
RT: 8.934 min Scan# 2733  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion:131 Resp: 241293  
Ion Ratio Lower Upper  
131 100  
133 95.6 77.4 116.0  
119 63.4 51.2 76.8





#57

Chlorobenzene

Concen: 13.668 ppbv

RT: 8.934 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC015

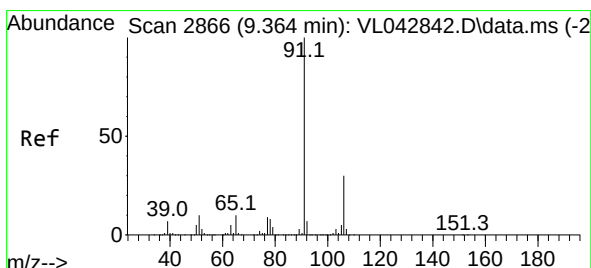
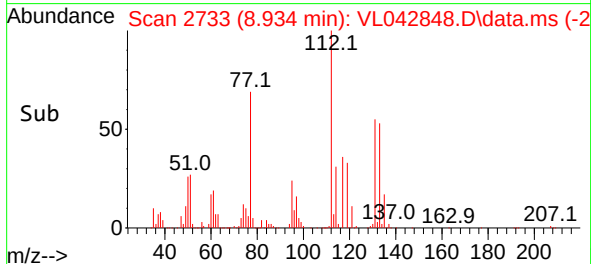
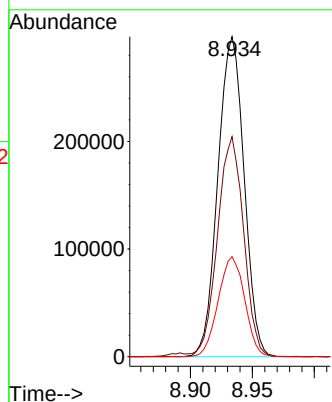
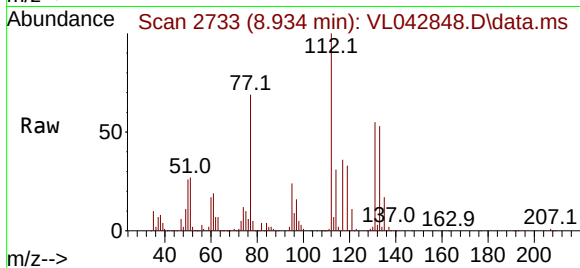
Tgt Ion:112 Resp: 439109

Ion Ratio Lower Upper

112 100

77 68.6 55.5 83.3

114 31.2 27.2 33.2



#58

Ethyl Benzene

Concen: 13.859 ppbv

RT: 9.364 min Scan# 2866

Delta R.T. 0.000 min

Lab File: VL042848.D

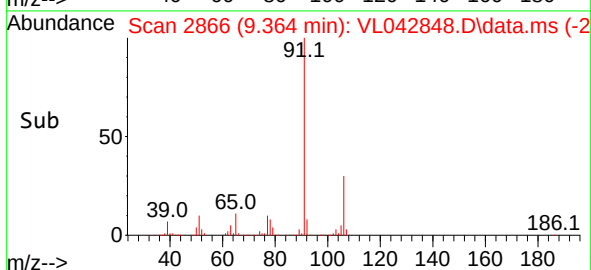
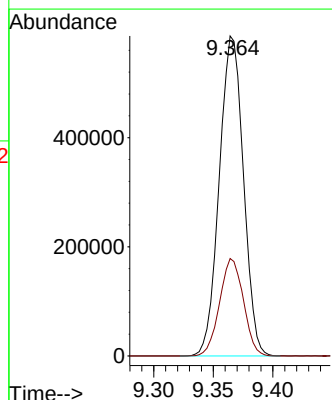
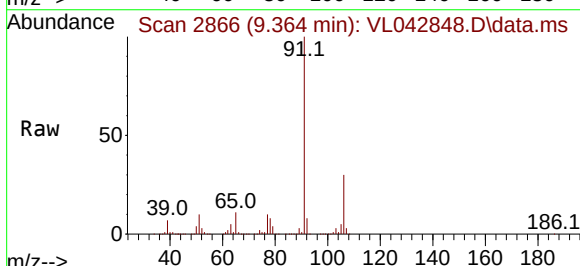
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 826316

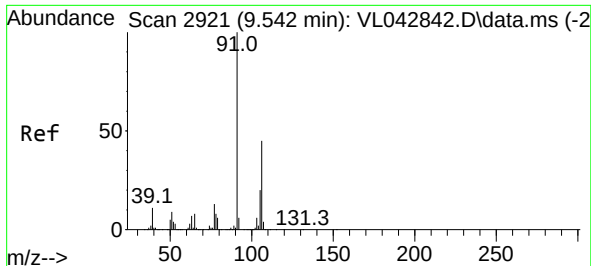
Ion Ratio Lower Upper

91 100

106 30.5 23.9 35.9







#59

m/p-Xylene

Concen: 14.262 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

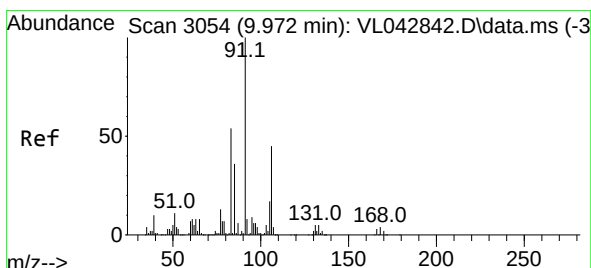
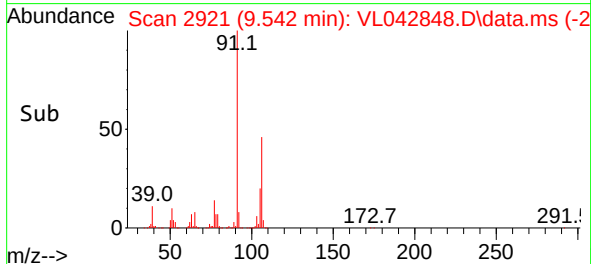
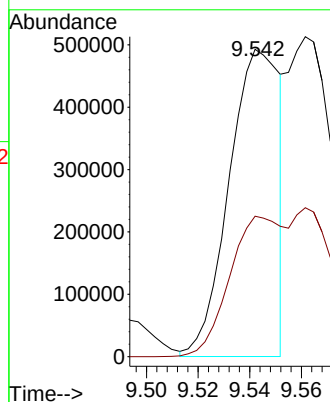
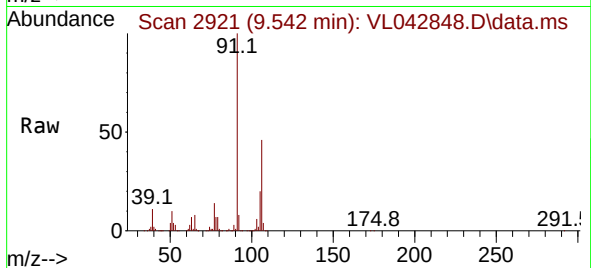
VSTDIC015

Tgt Ion: 91 Resp: 667628

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 13.389 ppbv

RT: 9.973 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042848.D

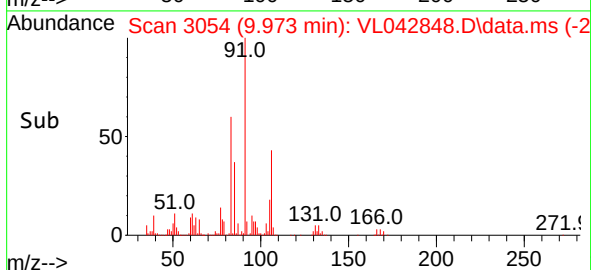
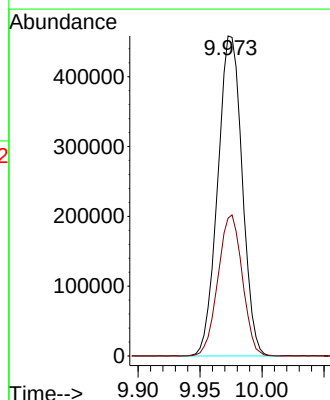
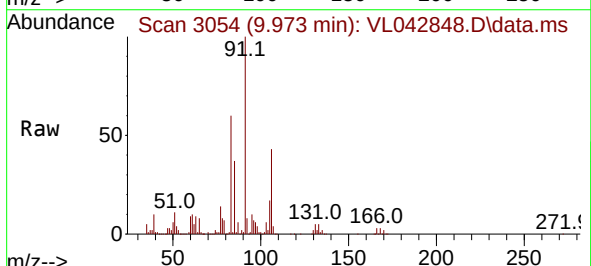
Acq: 13 Aug 2025 12:06

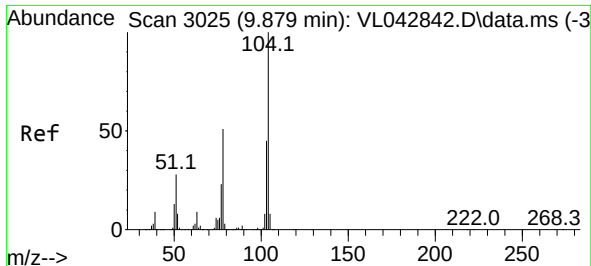
Tgt Ion: 91 Resp: 629445

Ion Ratio Lower Upper

91 100

106 43.9 21.8 65.4

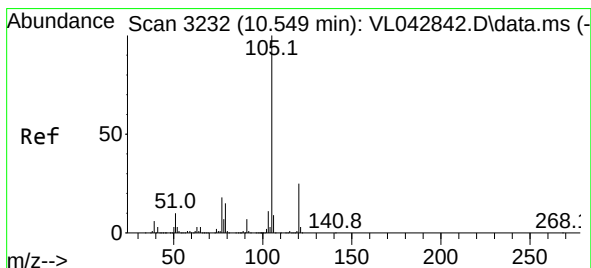
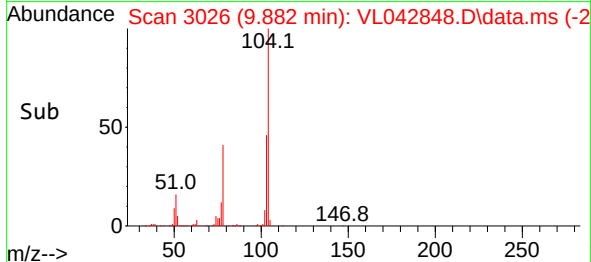
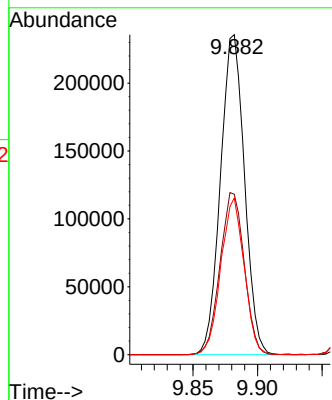
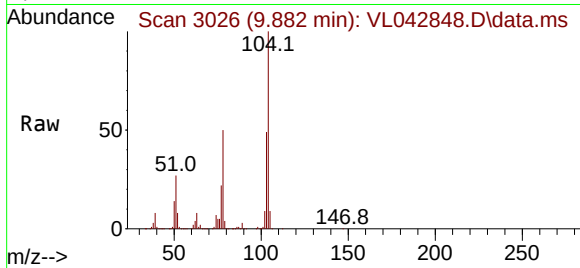




#61  
Styrene  
Concen: 13.827 ppbv  
RT: 9.882 min Scan# 3025  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

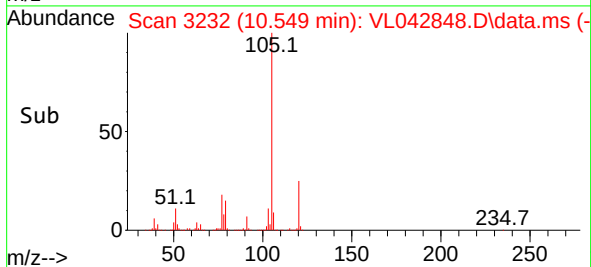
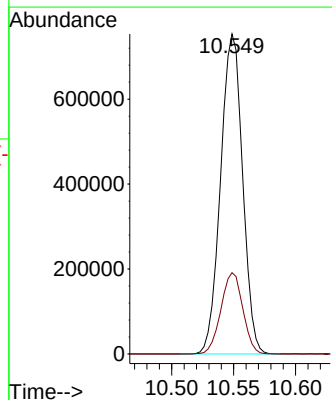
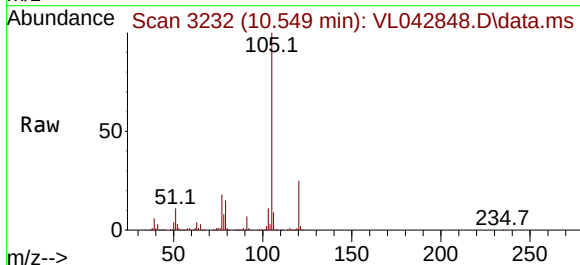
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

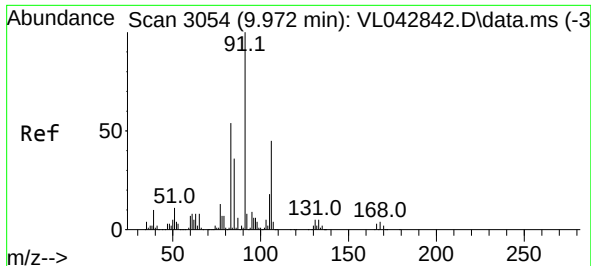
Tgt Ion:104 Resp: 304560  
Ion Ratio Lower Upper  
104 100  
78 51.1 40.6 61.0  
103 47.6 37.7 56.5



#62  
Isopropylbenzene  
Concen: 13.559 ppbv  
RT: 10.549 min Scan# 3232  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 931574  
Ion Ratio Lower Upper  
105 100  
120 25.2 20.6 30.8

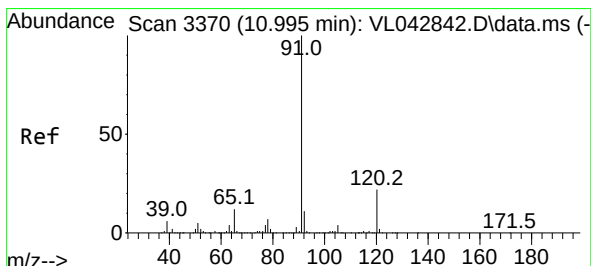
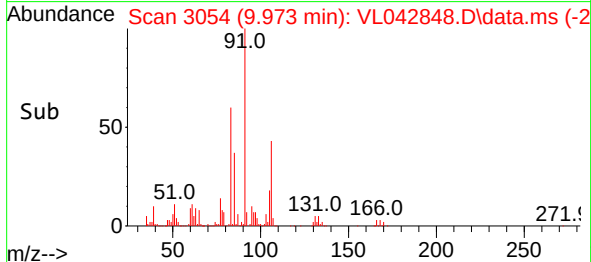
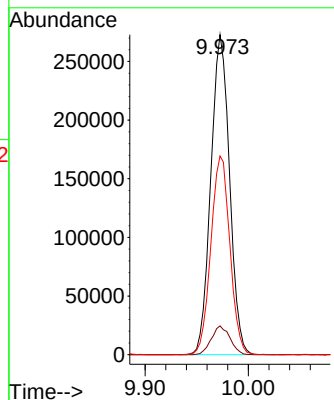
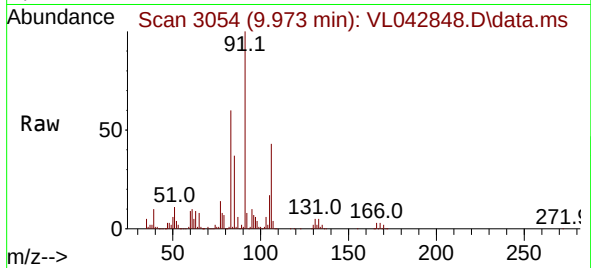




#63  
1,1,2,2-Tetrachloroethane  
Concen: 13.356 ppbv  
RT: 9.973 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

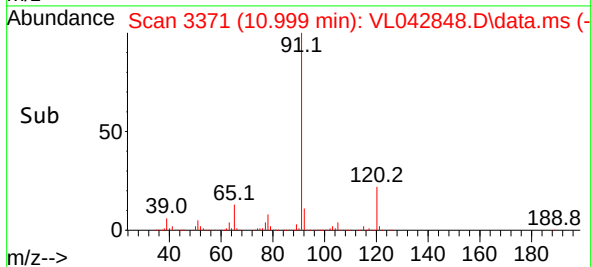
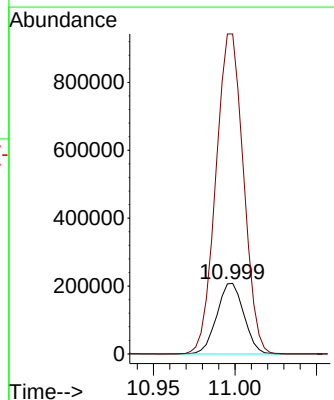
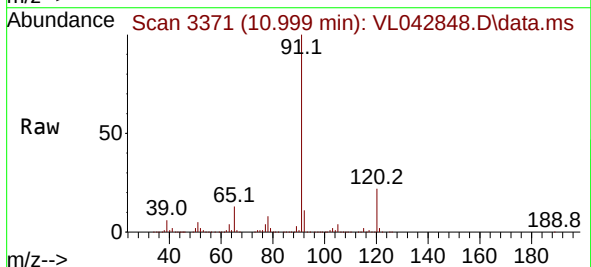
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDIC015

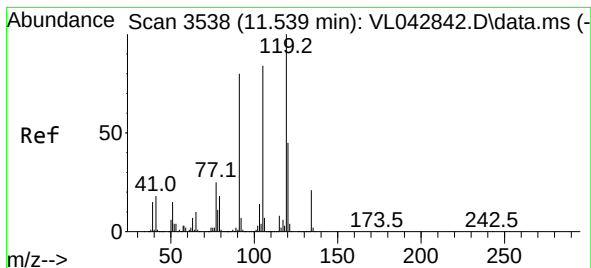
Tgt Ion: 83 Resp: 342890  
Ion Ratio Lower Upper  
83 100  
131 9.0 4.8 14.3  
85 63.0 32.3 96.8



#64  
n-propylbenzene  
Concen: 13.646 ppbv  
RT: 10.999 min Scan# 3371  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 120 Resp: 239209  
Ion Ratio Lower Upper  
120 100  
91 465.1 375.8 563.6

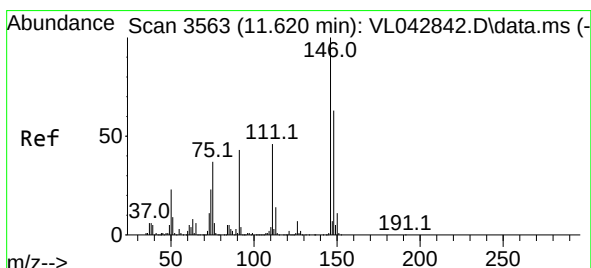
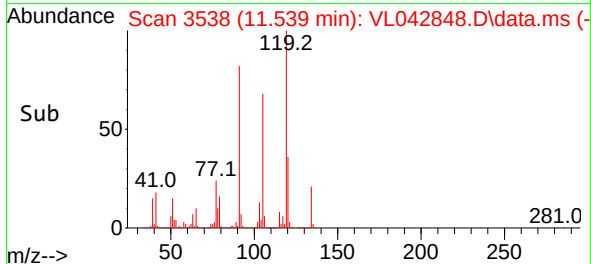
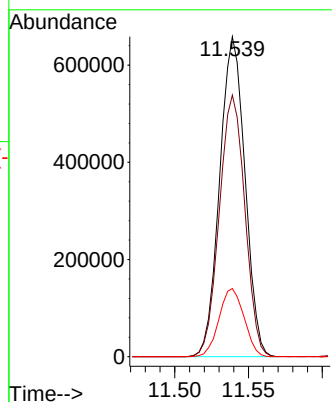
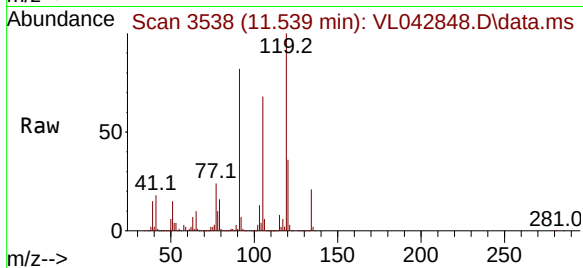




#65  
tert-Butylbenzene  
Concen: 12.965 ppbv  
RT: 11.539 min Scan# 3538  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

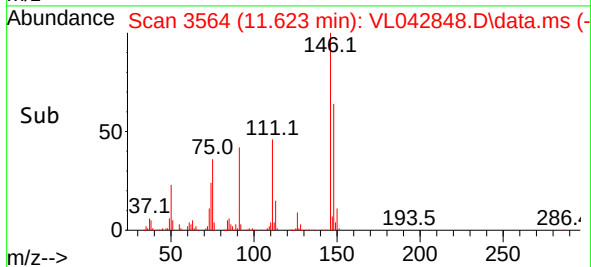
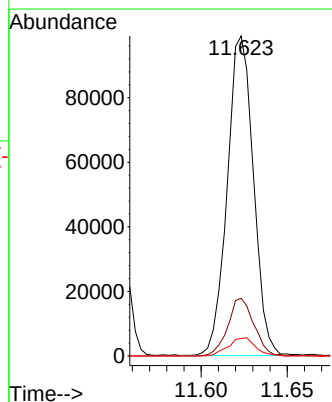
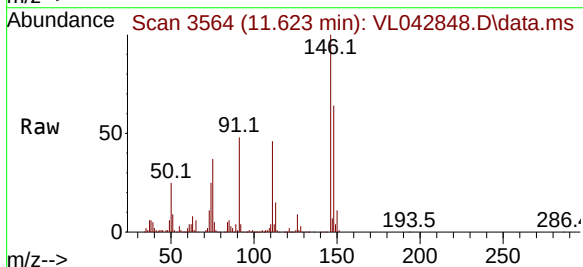
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

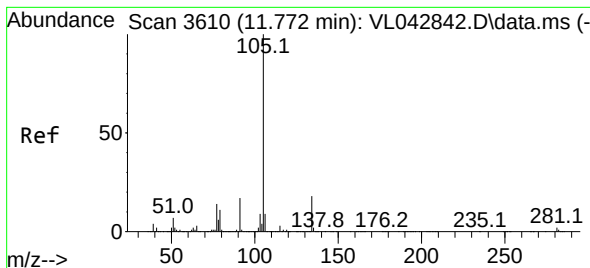
Tgt Ion:119 Resp: 785250  
Ion Ratio Lower Upper  
119 100  
91 82.4 63.9 95.9  
134 21.1 17.0 25.4



#66  
Benzyl Chloride  
Concen: 13.617 ppbv  
RT: 11.623 min Scan# 3564  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 104698  
Ion Ratio Lower Upper  
91 100  
126 18.1 14.2 21.4  
128 5.9 5.0 7.6

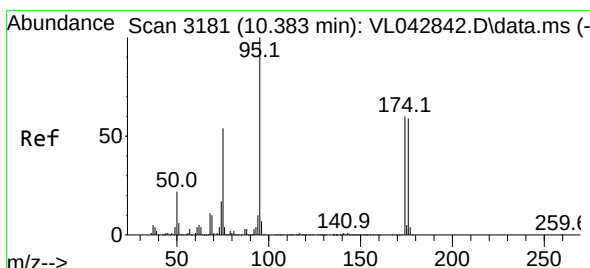
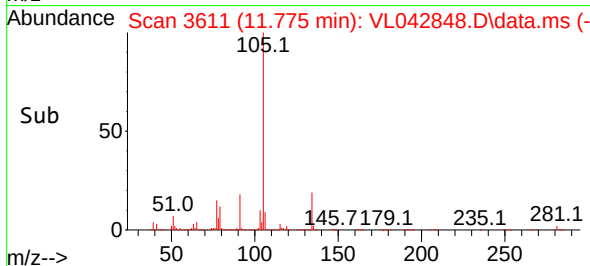
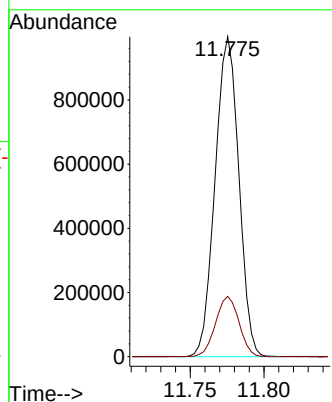
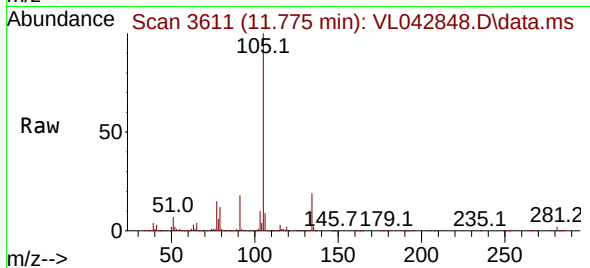




#67  
 sec-Butylbenzene  
 Concen: 13.127 ppbv  
 RT: 11.775 min Scan# 3610  
 Delta R.T. 0.003 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

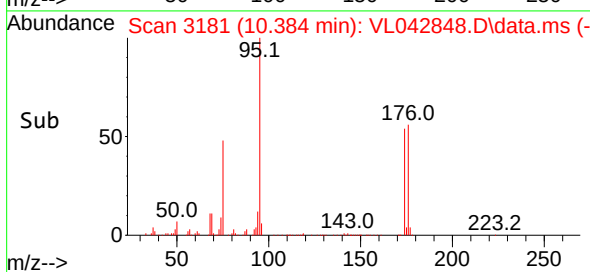
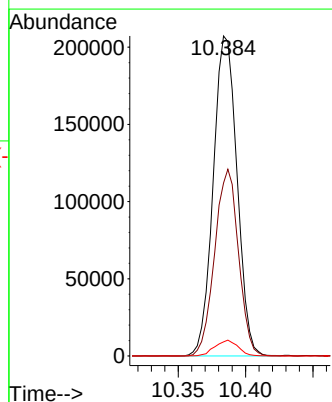
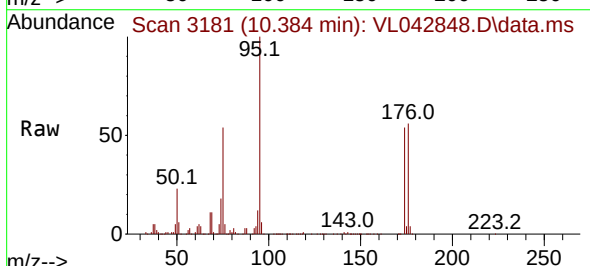
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

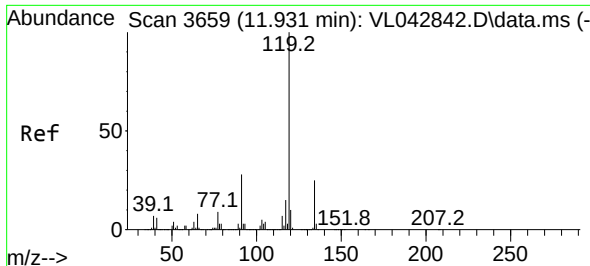
Tgt Ion:105 Resp: 1115979  
 Ion Ratio Lower Upper  
 105 100  
 134 18.7 14.9 22.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.050 ppbv  
 RT: 10.384 min Scan# 3181  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Tgt Ion: 95 Resp: 254655  
 Ion Ratio Lower Upper  
 95 100  
 174 58.3 48.4 72.6  
 175 4.8 3.8 5.8

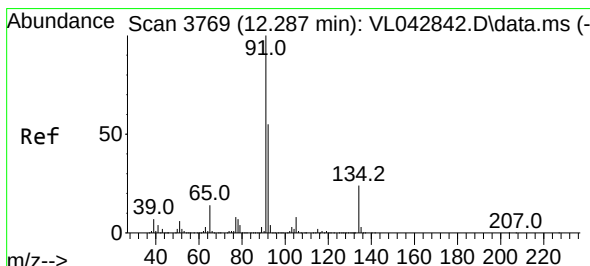
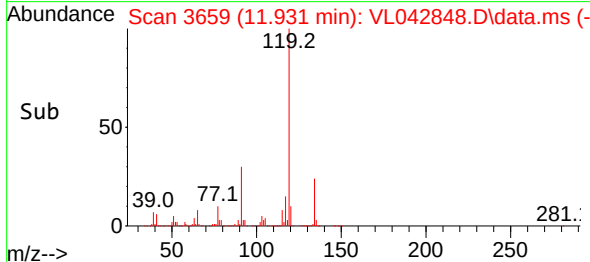
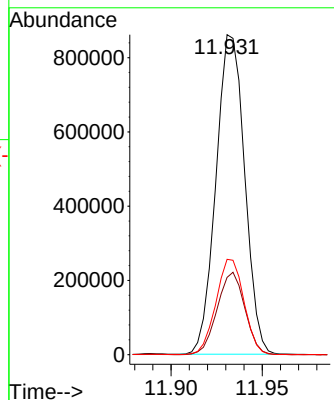
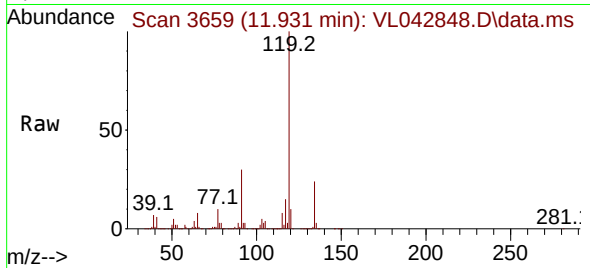




#69  
 p-Isopropyltoluene  
 Concen: 12.891 ppbv  
 RT: 11.931 min Scan# 3659  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

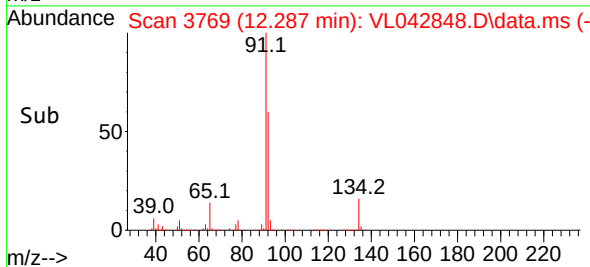
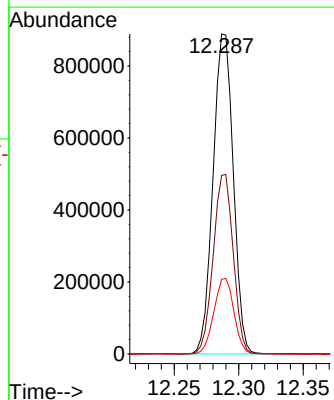
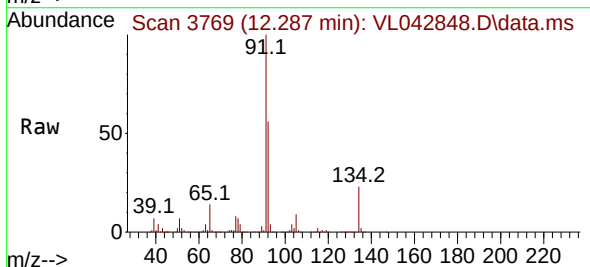
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

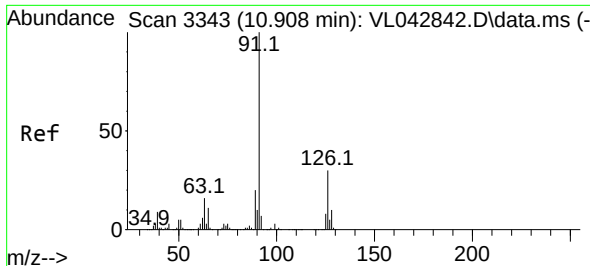
Tgt Ion: 119 Resp: 940888  
 Ion Ratio Lower Upper  
 119 100  
 134 25.0 20.6 30.8  
 91 29.4 22.6 34.0



#70  
 n-Butylbenzene  
 Concen: 13.410 ppbv  
 RT: 12.287 min Scan# 3769  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Tgt Ion: 91 Resp: 970700  
 Ion Ratio Lower Upper  
 91 100  
 92 55.5 44.6 66.8  
 134 23.3 19.0 28.4

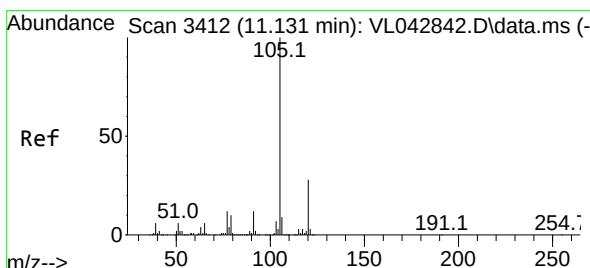
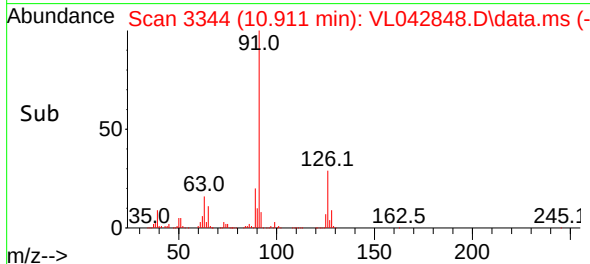
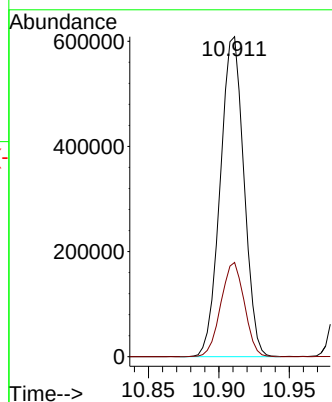
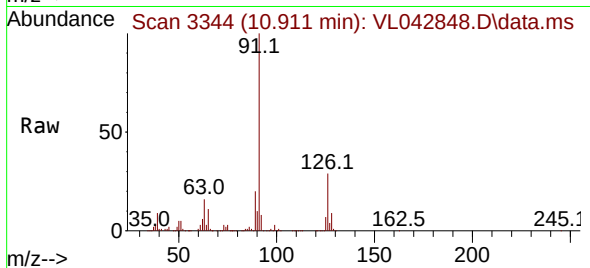




#71  
2-Chlorotoluene  
Concen: 13.378 ppbv  
RT: 10.911 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

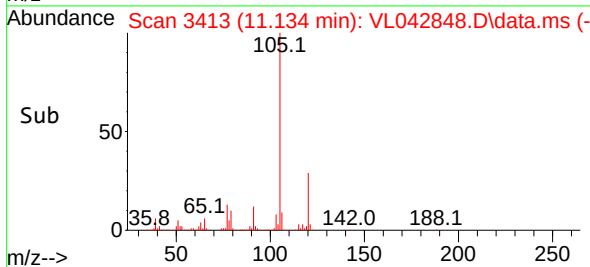
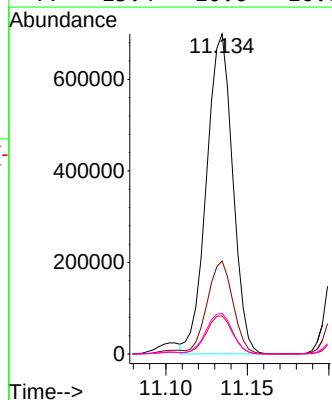
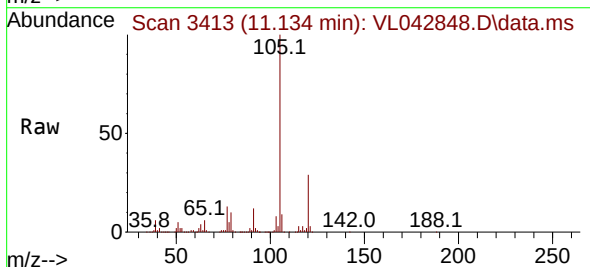
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

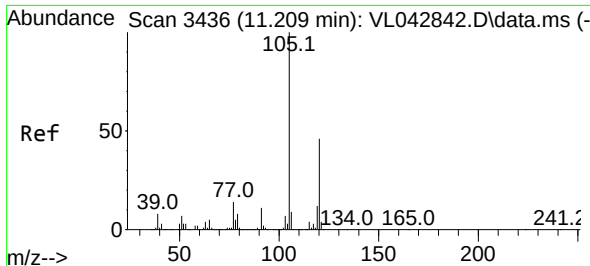
Tgt Ion: 91 Resp: 713696  
Ion Ratio Lower Upper  
91 100  
126 29.2 12.0 47.8



#72  
4-Ethyltoluene  
Concen: 13.722 ppbv  
RT: 11.134 min Scan# 3413  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion: 105 Resp: 782057  
Ion Ratio Lower Upper  
105 100  
120 29.6 23.4 35.2  
91 12.5 9.8 14.6  
77 13.4 10.6 16.0

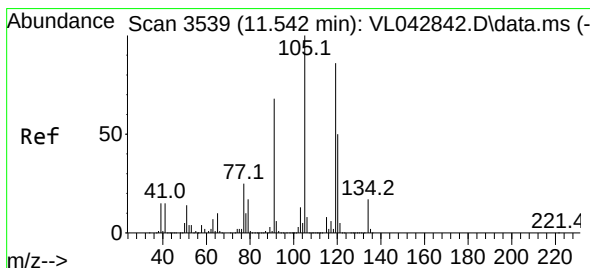
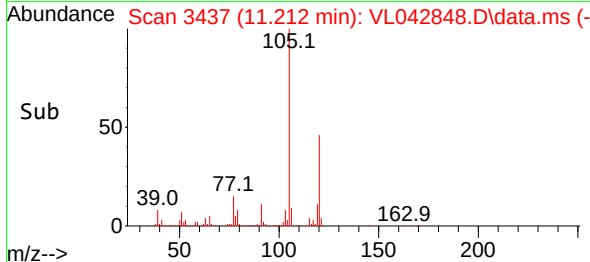
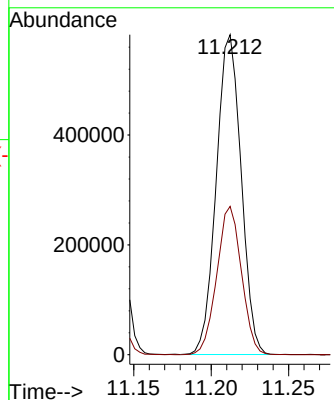
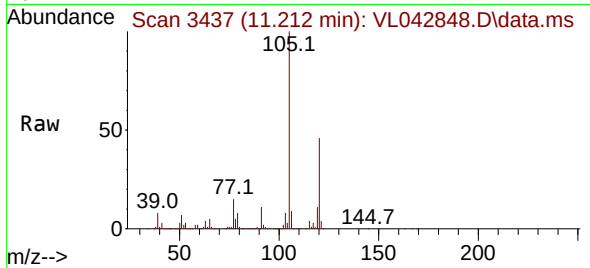




#73  
 1,3,5-Trimethylbenzene  
 Concen: 13.418 ppbv  
 RT: 11.212 min Scan# 3437  
 Delta R.T. 0.003 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

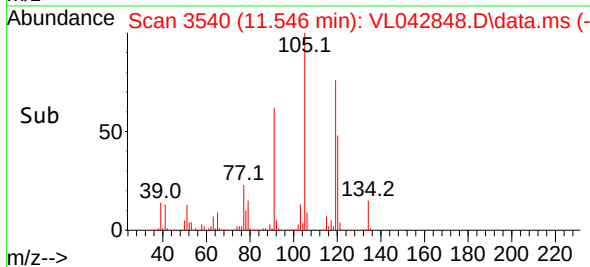
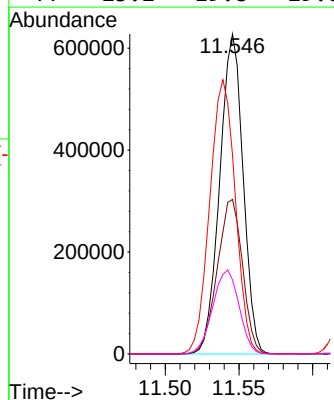
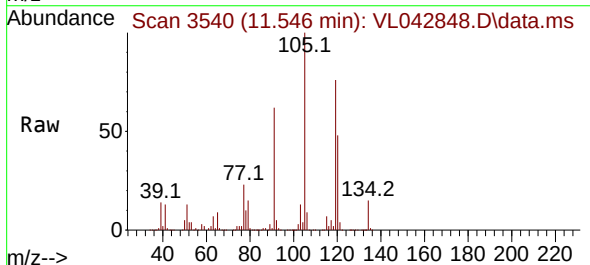
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

Tgt Ion:105 Resp: 650280  
 Ion Ratio Lower Upper  
 105 100  
 120 46.4 36.6 54.8

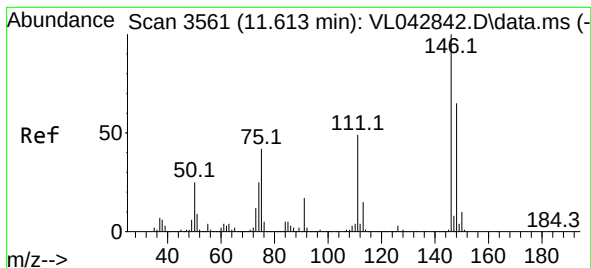


#74  
 1,2,4-Trimethylbenzene  
 Concen: 13.003 ppbv  
 RT: 11.546 min Scan# 3540  
 Delta R.T. 0.003 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Tgt Ion:105 Resp: 691709  
 Ion Ratio Lower Upper  
 105 100  
 120 48.3 39.8 59.6  
 91 62.2 54.2 81.4  
 77 23.2 19.8 29.6



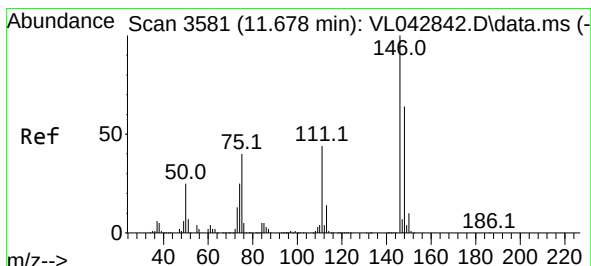
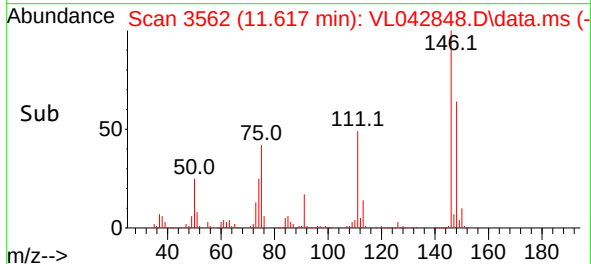
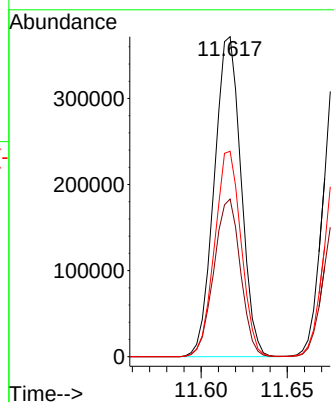
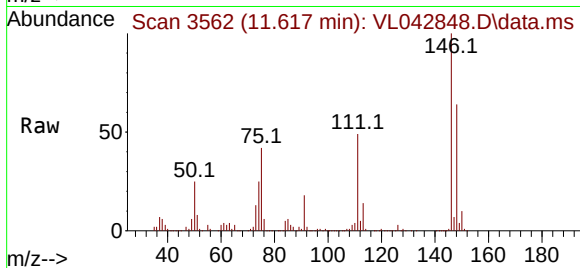




#75  
1,3-Dichlorobenzene  
Concen: 13.321 ppbv  
RT: 11.617 min Scan# 3562  
Delta R.T. 0.003 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

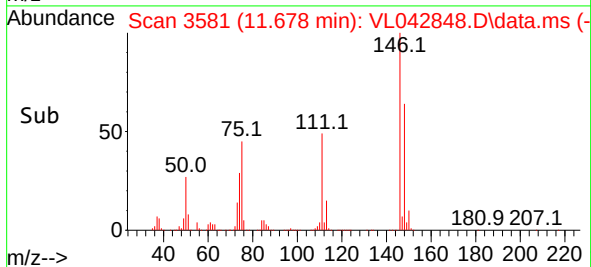
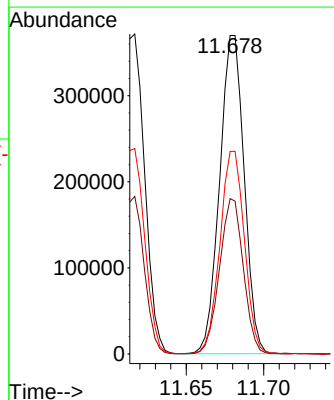
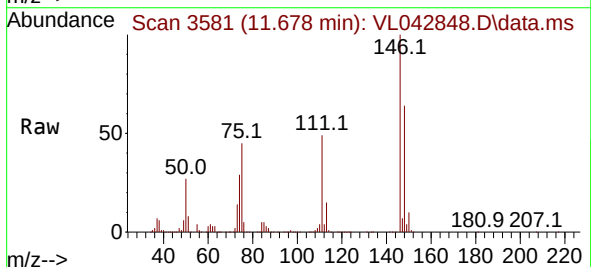
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDIC015

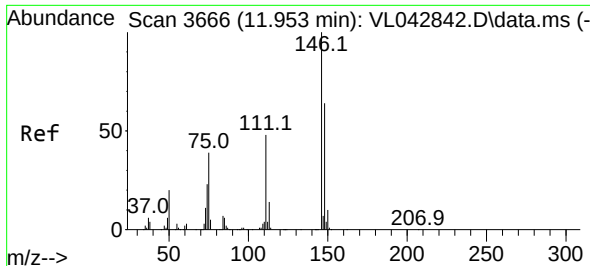
Tgt Ion:146 Resp: 402850  
Ion Ratio Lower Upper  
146 100  
111 48.9 23.9 71.7  
148 63.5 31.4 94.0



#76  
1,4-Dichlorobenzene  
Concen: 13.314 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.000 min  
Lab File: VL042848.D  
Acq: 13 Aug 2025 12:06

Tgt Ion:146 Resp: 407214  
Ion Ratio Lower Upper  
146 100  
111 47.5 22.7 68.1  
148 63.8 31.8 95.3

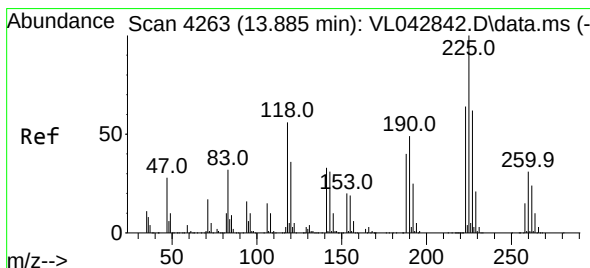
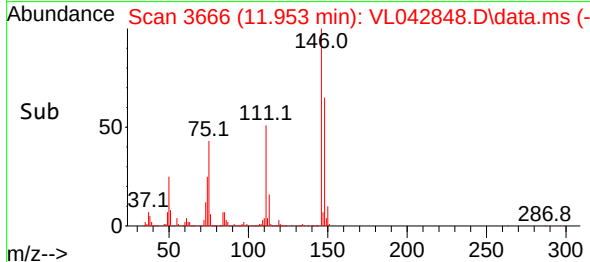
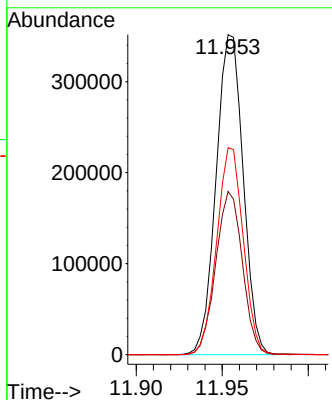
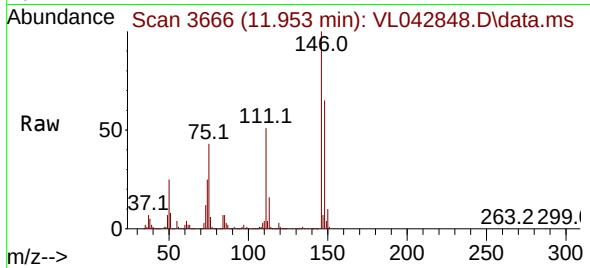




#77  
 1,2-Dichlorobenzene  
 Concen: 13.031 ppbv  
 RT: 11.953 min Scan# 3666  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

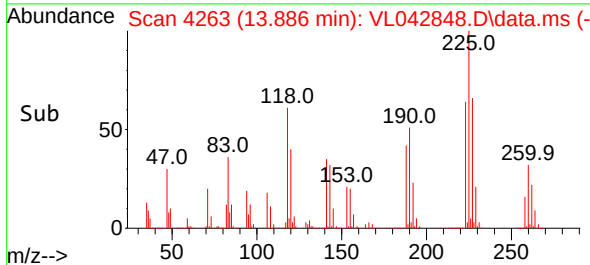
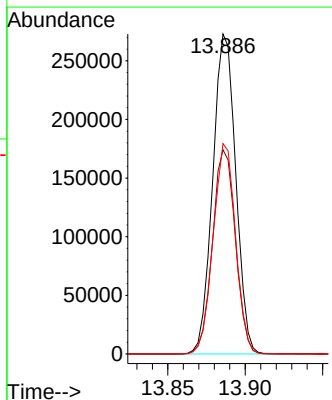
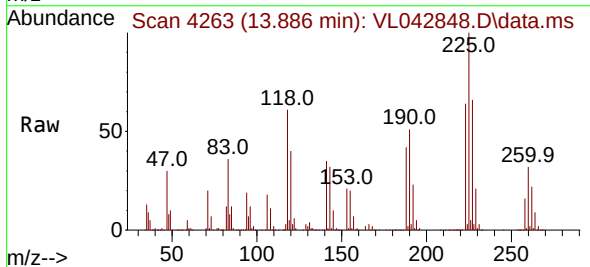
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDIC015

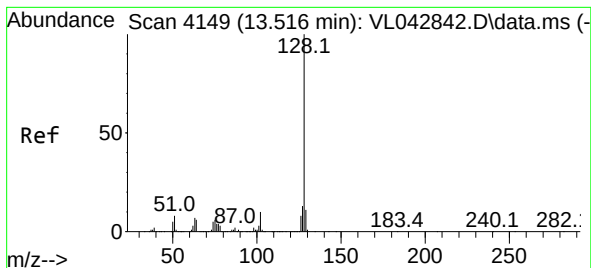
Tgt Ion:146 Resp: 385866  
 Ion Ratio Lower Upper  
 146 100  
 111 50.2 24.6 74.0  
 148 63.3 32.0 96.0



#78  
 Hexachloro-1,3-Butadiene  
 Concen: 11.602 ppbv  
 RT: 13.886 min Scan# 4263  
 Delta R.T. 0.000 min  
 Lab File: VL042848.D  
 Acq: 13 Aug 2025 12:06

Tgt Ion:225 Resp: 281581  
 Ion Ratio Lower Upper  
 225 100  
 223 63.6 51.4 77.2  
 227 64.2 51.9 77.9





#79

Naphthalene

Concen: 13.837 ppbv

RT: 13.517 min Scan# 4149

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_1

ClientSampleId :

VSTDIC015

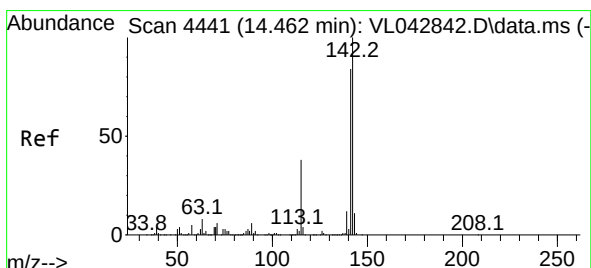
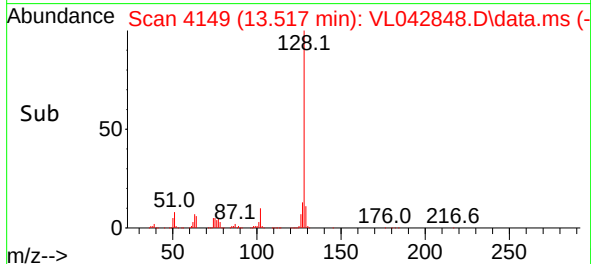
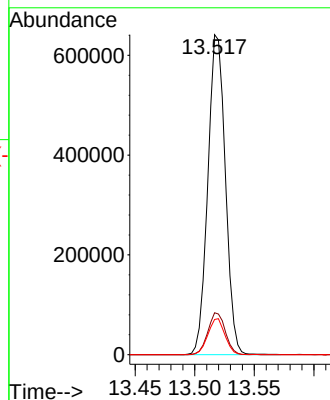
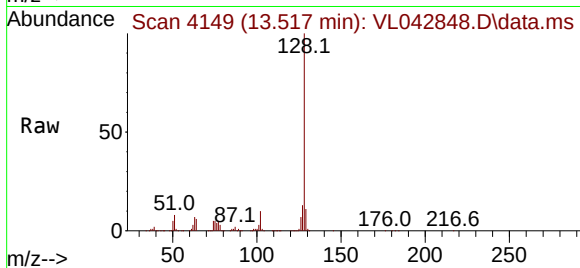
Tgt Ion:128 Resp: 658732

Ion Ratio Lower Upper

128 100

127 13.1 10.6 16.0

129 11.0 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 14.042 ppbv

RT: 14.462 min Scan# 4441

Delta R.T. 0.000 min

Lab File: VL042848.D

Acq: 13 Aug 2025 12:06

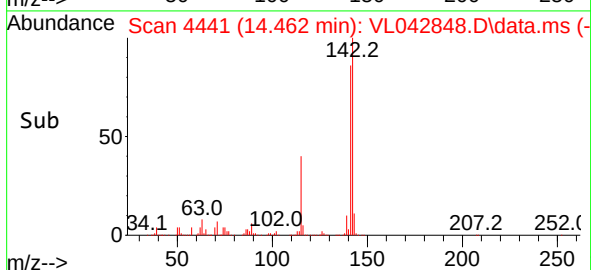
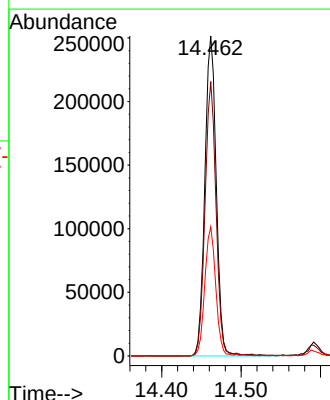
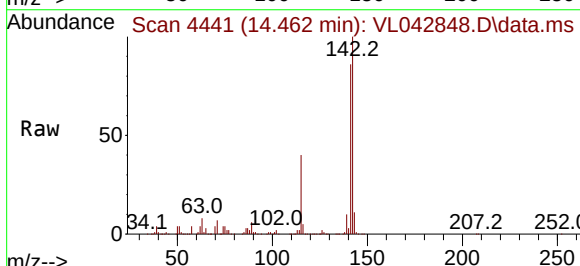
Tgt Ion:142 Resp: 251753

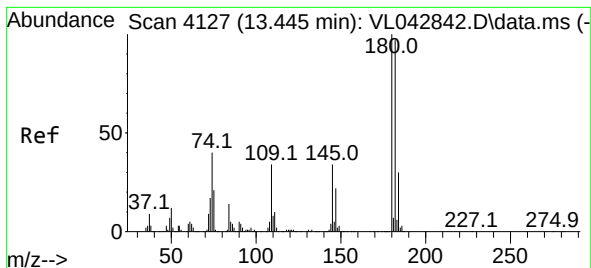
Ion Ratio Lower Upper

142 100

141 83.9 67.0 100.6

115 39.3 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 13.599 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042848.D

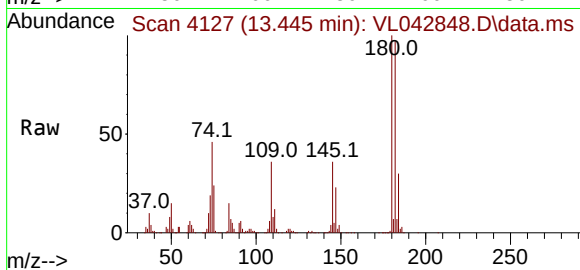
Acq: 13 Aug 2025 12:06

Instrument :

MSVOA\_L

ClientSampleId :

VSTDICC015



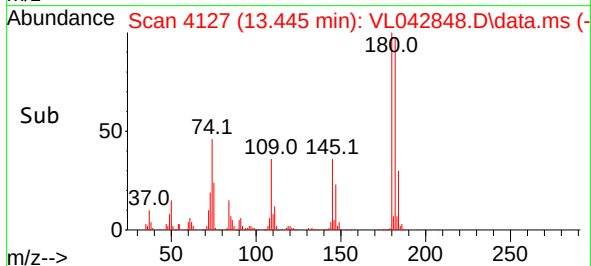
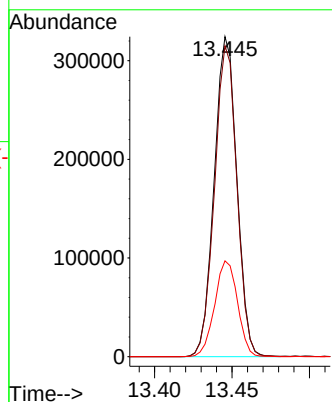
Tgt Ion:180 Resp: 329641

Ion Ratio Lower Upper

180 100

182 96.2 76.9 115.3

184 30.3 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042849.D  
 Acq On : 13 Aug 2025 12:56  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICSVVL081325

Quant Time: Aug 14 02:16:09 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 02:12:54 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.790 | 49   | 122486   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.965 | 114  | 374448   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.891 | 117  | 333493   | 10.000 | ppbv  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.383 | 95    | 252268   | 10.086   | ppbv | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =    | 100.900% |

| Target Compounds              |       |     |        |       |        | Qvalue |
|-------------------------------|-------|-----|--------|-------|--------|--------|
| 2) Dichlorodifluoromethane    | 1.499 | 85  | 163446 | 9.105 | ppbv   | 96     |
| 3) Chlorodifluoromethane      | 1.476 | 51  | 185078 | 9.327 | ppbv   | 100    |
| 4) Chloromethane              | 1.535 | 50  | 63634  | 8.784 | ppbv   | 100    |
| 5) Vinyl Chloride             | 1.583 | 62  | 58729  | 8.232 | ppbv   | 96     |
| 6) Bromomethane               | 1.670 | 94  | 25105  | 8.801 | ppbv   | 97     |
| 7) Chloroethane               | 1.706 | 64  | 23293  | 8.360 | ppbv   | 98     |
| 8) Dichlorotetrafluoroethane  | 1.557 | 85  | 135845 | 9.248 | ppbv   | 99     |
| 9) Propene                    | 1.483 | 41  | 76457  | 8.922 | ppbv   | 97     |
| 10) Heptane                   | 4.988 | 43  | 206333 | 8.990 | ppbv   | 99     |
| 11) Trichlorofluoromethane    | 1.881 | 101 | 154211 | 8.707 | ppbv   | 99     |
| 12) 1,1,2-Trichlorotrifluo... | 2.143 | 101 | 124558 | 8.824 | ppbv   | 99     |
| 13) Ethanol                   | 1.722 | 45  | 6016   | 7.678 | ppbv   | 96     |
| 14) Bromoethene               | 1.784 | 108 | 46528  | 9.105 | ppbv   | 98     |
| 15) Acetone                   | 1.839 | 43  | 119723 | 7.389 | ppbv   | 99     |
| 16) 1,3-Butadiene             | 1.612 | 39  | 60853  | 8.285 | ppbv   | 99     |
| 17) tert-Butyl alcohol        | 2.043 | 59  | 166457 | 8.663 | ppbv   | 99     |
| 18) 1,1-Dichloroethene        | 2.036 | 96  | 56397  | 9.087 | ppbv   | 94     |
| 19) Isopropyl Alcohol         | 1.887 | 45  | 78832  | 8.146 | ppbv   | 98     |
| 20) Methylene Chloride        | 2.065 | 84  | 47793  | 7.041 | ppbv   | 90     |
| 21) Allyl Chloride            | 2.098 | 41  | 102514 | 8.956 | ppbv   | 97     |
| 22) trans-1,2-Dichloroethene  | 2.344 | 96  | 63932  | 8.904 | ppbv   | 95     |
| 23) Vinyl Acetate             | 2.467 | 43  | 198083 | 8.891 | ppbv # | 97     |
| 24) 1,1-Dichloroethane        | 2.412 | 63  | 127660 | 8.903 | ppbv   | 99     |
| 25) Ethyl Acetate             | 2.839 | 43  | 362325 | 9.240 | ppbv   | 99     |
| 26) Hexane                    | 2.829 | 57  | 167364 | 9.246 | ppbv   | 97     |
| 27) Carbon Disulfide          | 2.153 | 76  | 155729 | 8.841 | ppbv   | 99     |
| 28) Methyl tert-Butyl Ether   | 2.444 | 73  | 82126  | 8.898 | ppbv   | 92     |
| 29) Chloroform                | 2.855 | 83  | 242320 | 9.377 | ppbv   | 99     |
| 30) Cyclohexane               | 3.865 | 84  | 147417 | 9.289 | ppbv   | 99     |
| 31) cis-1,2-Dichloroethene    | 2.726 | 61  | 166268 | 9.196 | ppbv   | 99     |
| 32) 1,1,1-Trichloroethane     | 3.373 | 97  | 252813 | 9.256 | ppbv   | 99     |
| 34) 2-Butanone                | 2.561 | 43  | 230961 | 9.135 | ppbv   | 100    |
| 35) Carbon Tetrachloride      | 3.771 | 117 | 244671 | 9.478 | ppbv   | 95     |
| 36) Benzene                   | 3.664 | 78  | 343952 | 9.592 | ppbv   | 98     |
| 37) 1,2-Dichloroethane        | 3.224 | 62  | 187160 | 9.991 | ppbv   | 100    |
| 38) Trichloroethene           | 4.558 | 130 | 150693 | 9.202 | ppbv   | 96     |
| 39) 1,2-Dichloropropane       | 4.324 | 63  | 123566 | 9.436 | ppbv   | 97     |
| 40) 1,4-Dioxane               | 4.590 | 88  | 55292  | 8.879 | ppbv # | 93     |
| 41) Tetrahydrofuran           | 3.059 | 42  | 132108 | 9.372 | ppbv   | 99     |
| 42) Bromodichloromethane      | 4.499 | 83  | 270154 | 9.678 | ppbv   | 99     |
| 43) Methyl Methacrylate       | 4.888 | 69  | 136329 | 9.229 | ppbv   | 99     |
| 44) 2,2,4-Trimethylpentane    | 4.648 | 57  | 565415 | 9.290 | ppbv   | 100    |
| 45) t-1,3-Dichloropropene     | 6.428 | 75  | 160784 | 9.645 | ppbv   | 100    |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL081325\  
 Data File : VL042849.D  
 Acq On : 13 Aug 2025 12:56  
 Operator : SY/MD  
 Sample : VSTDICV010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325

Quant Time: Aug 14 02:16:09 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Thu Aug 14 02:12:54 2025  
 Response via : Initial Calibration

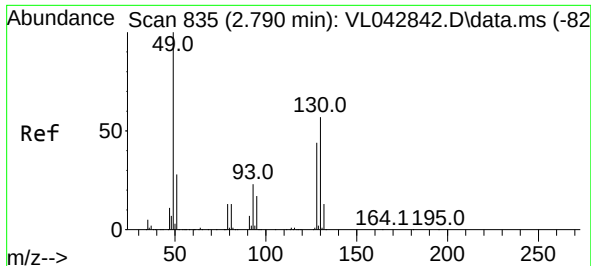
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.613  | 75   | 108009   | 5.200  | ppbv   | 99       |
| 47) 1,1,2-Trichloroethane     | 6.597  | 97   | 132548   | 9.553  | ppbv   | 99       |
| 48) Dibromochloromethane      | 7.399  | 129  | 217970   | 9.708  | ppbv   | 100      |
| 49) Bromoform                 | 9.493  | 173  | 174914   | 9.446  | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.765  | 43   | 322264   | 9.430  | ppbv   | 100      |
| 51) 2-Hexanone                | 7.445  | 43   | 263321   | 9.791  | ppbv # | 98       |
| 52) Tetrachloroethene         | 8.234  | 164  | 110828   | 8.544  | ppbv   | 89       |
| 53) Toluene                   | 6.946  | 91   | 398138   | 9.340  | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.665  | 107  | 193340   | 9.535  | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.937  | 131  | 160225   | 9.291  | ppbv   | 99       |
| 57) Chlorobenzene             | 8.933  | 112  | 297375   | 9.378  | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.364  | 91   | 554015   | 9.414  | ppbv   | 100      |
| 59) m/p-Xylene                | 9.542  | 91   | 462620   | 10.029 | ppbv # | 100      |
| 60) o-Xylene                  | 9.972  | 91   | 428721   | 9.239  | ppbv   | 99       |
| 61) Styrene                   | 9.879  | 104  | 203858   | 9.377  | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.549 | 105  | 624287   | 9.206  | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.972  | 83   | 225237   | 8.826  | ppbv   | 100      |
| 64) n-propylbenzene           | 10.998 | 120  | 158234   | 9.145  | ppbv   | 97       |
| 65) tert-Butylbenzene         | 11.539 | 119  | 534795   | 8.946  | ppbv   | 98       |
| 66) Benzyl Chloride           | 11.623 | 91   | 68533    | 9.031  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.775 | 105  | 762602   | 9.088  | ppbv   | 100      |
| 69) p-Isopropyltoluene        | 11.934 | 119  | 634670   | 8.810  | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.287 | 91   | 647453   | 9.062  | ppbv   | 99       |
| 71) 2-Chlorotoluene           | 10.908 | 91   | 485171   | 9.214  | ppbv   | 98       |
| 72) 4-Ethyltoluene            | 11.131 | 105  | 525262   | 9.338  | ppbv   | 100      |
| 73) 1,3,5-Trimethylbenzene    | 11.212 | 105  | 435705   | 9.108  | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.542 | 105  | 469573   | 8.943  | ppbv   | 94       |
| 75) 1,3-Dichlorobenzene       | 11.613 | 146  | 274876   | 9.209  | ppbv   | 100      |
| 76) 1,4-Dichlorobenzene       | 11.678 | 146  | 270976   | 8.976  | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.953 | 146  | 255347   | 8.736  | ppbv   | 98       |
| 78) Hexachloro-1,3-Butadiene  | 13.886 | 225  | 186318   | 7.778  | ppbv   | 97       |
| 79) Naphthalene               | 13.520 | 128  | 441940   | 9.284  | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.462 | 142  | 145644   | 8.188  | ppbv   | 98       |
| 81) 1,2,4-Trichlorobenzene    | 13.445 | 180  | 215715   | 9.016  | ppbv   | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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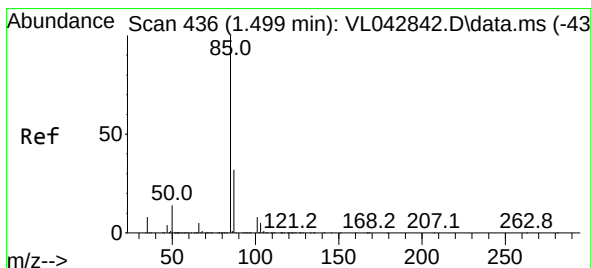
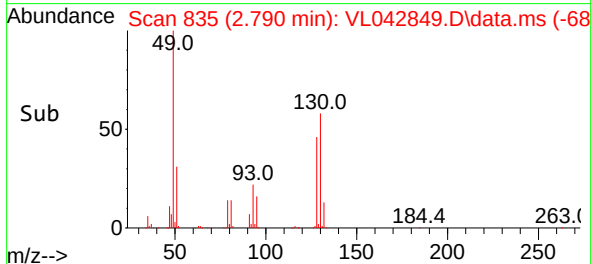
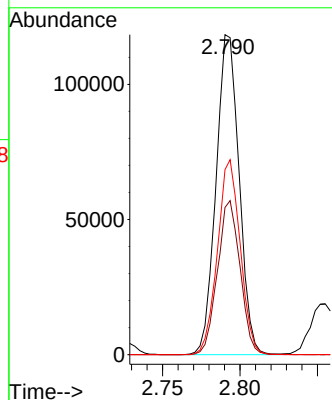
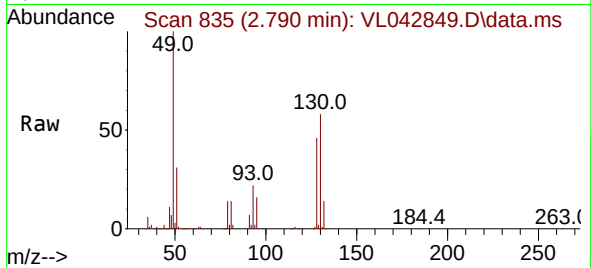




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.790 min Scan# 835  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

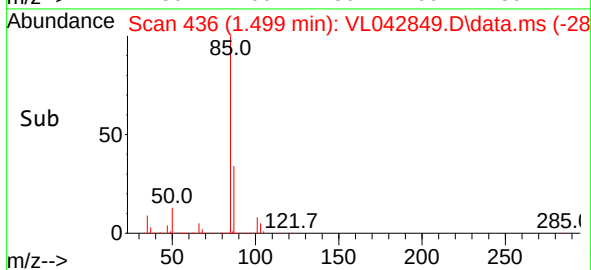
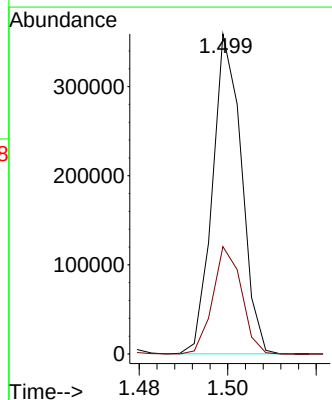
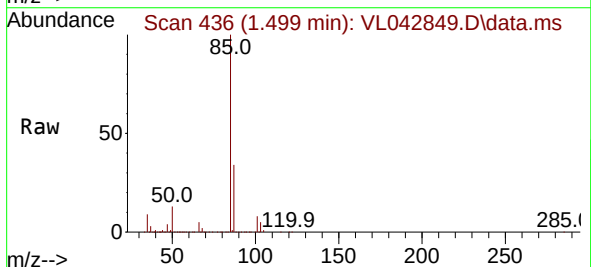
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

Tgt Ion: 49 Resp: 122486  
Ion Ratio Lower Upper  
49 100  
128 47.2 23.7 71.1  
130 60.0 30.6 91.6

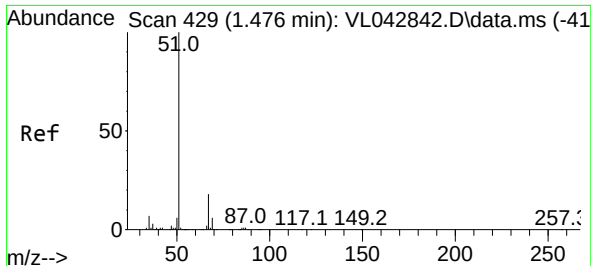


#2  
Dichlorodifluoromethane  
Concen: 9.105 ppbv  
RT: 1.499 min Scan# 436  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 85 Resp: 163446  
Ion Ratio Lower Upper  
85 100  
87 33.6 25.3 37.9



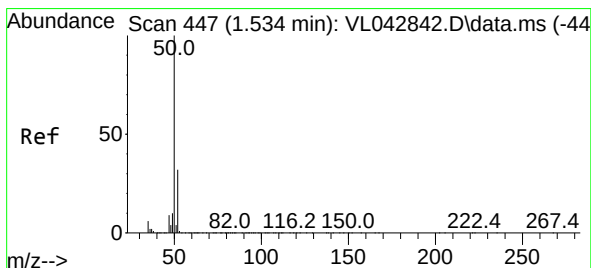
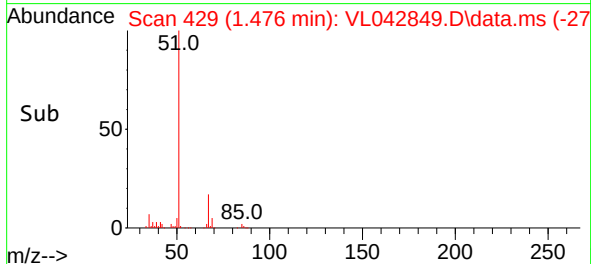
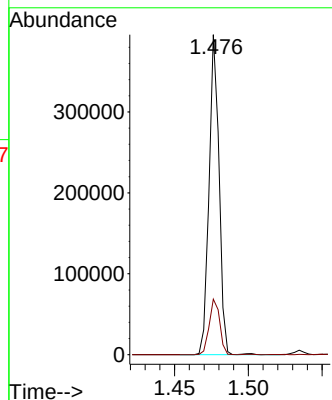
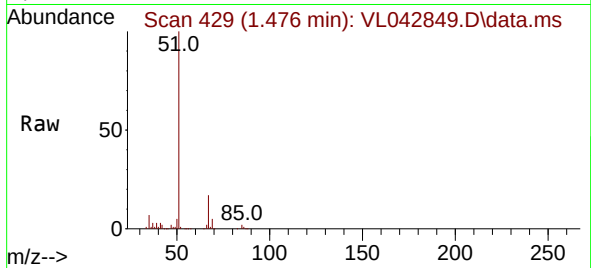




#3  
Chlorodifluoromethane  
Concen: 9.327 ppbv  
RT: 1.476 min Scan# 429  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

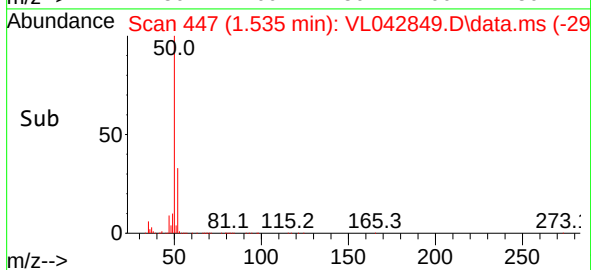
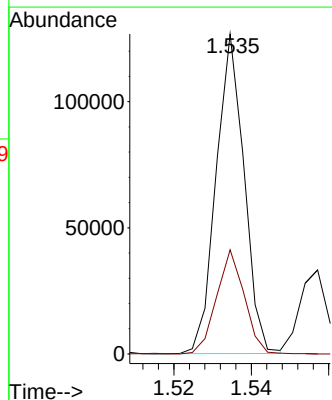
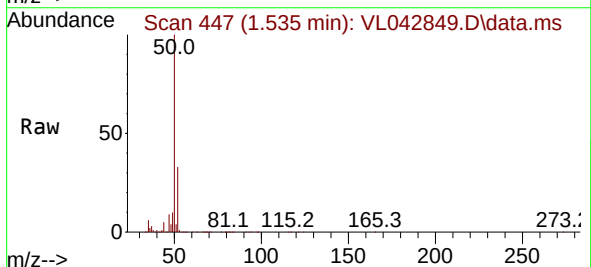
Instrument : MSVOA\_L  
ClientSampleId : ICVVL081325

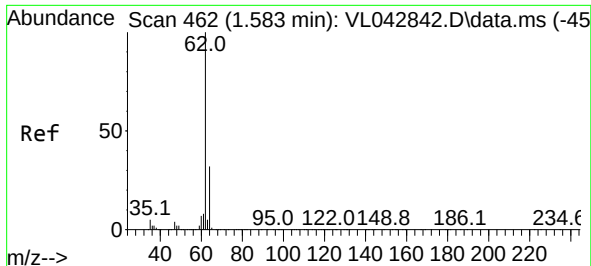
Tgt Ion: 51 Resp: 185078  
Ion Ratio Lower Upper  
51 100  
67 18.6 14.9 22.3



#4  
Chloromethane  
Concen: 8.784 ppbv  
RT: 1.535 min Scan# 447  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 50 Resp: 63634  
Ion Ratio Lower Upper  
50 100  
52 32.6 25.9 38.9

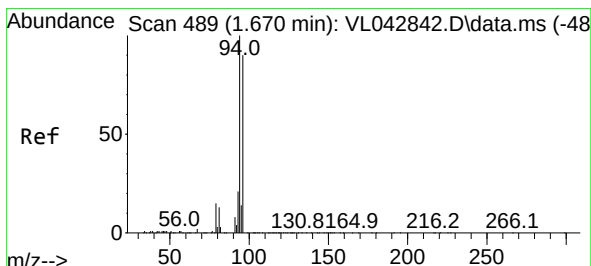
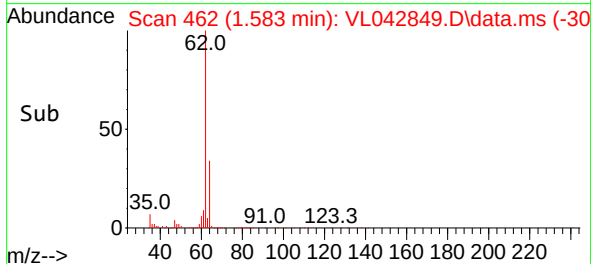
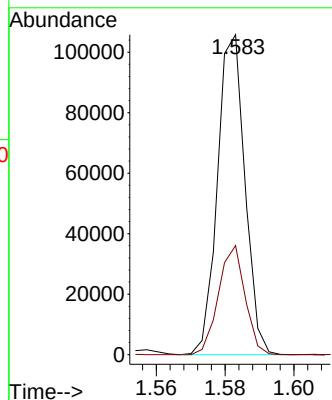
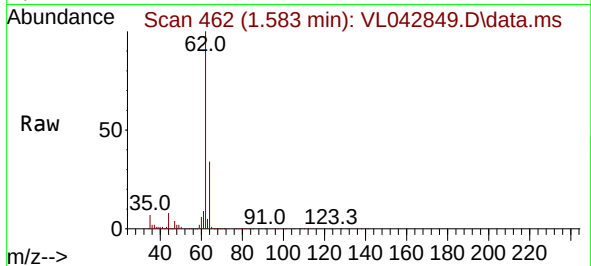




#5  
 Vinyl Chloride  
 Concen: 8.232 ppbv  
 RT: 1.583 min Scan# 462  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

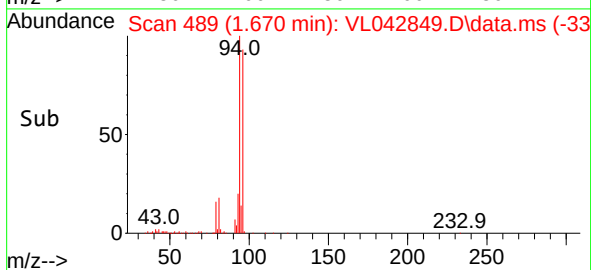
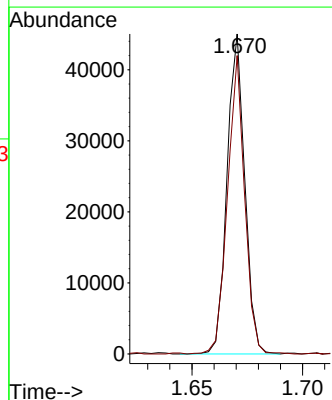
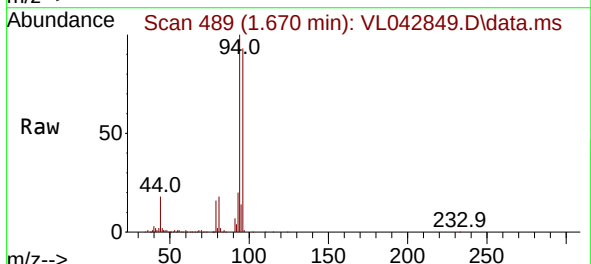
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL081325

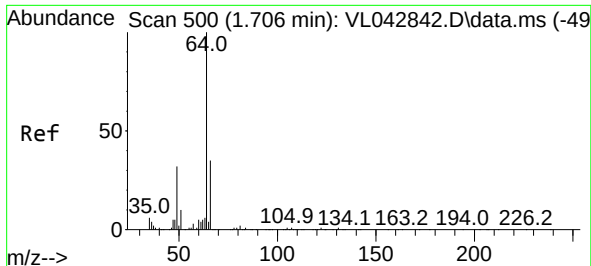
Tgt Ion: 62 Resp: 58729  
 Ion Ratio Lower Upper  
 62 100  
 64 34.1 25.4 38.2



#6  
 Bromomethane  
 Concen: 8.801 ppbv  
 RT: 1.670 min Scan# 489  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

Tgt Ion: 94 Resp: 25105  
 Ion Ratio Lower Upper  
 94 100  
 96 92.9 72.1 108.1

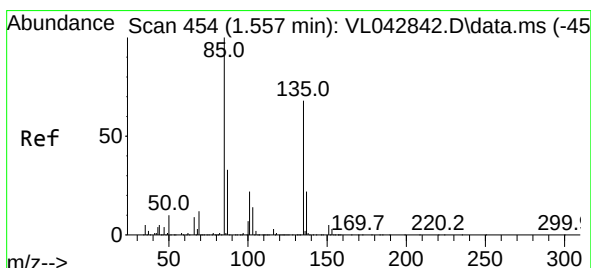
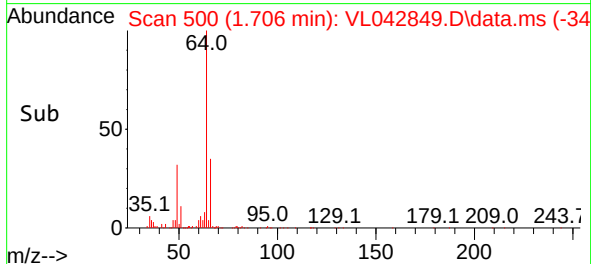
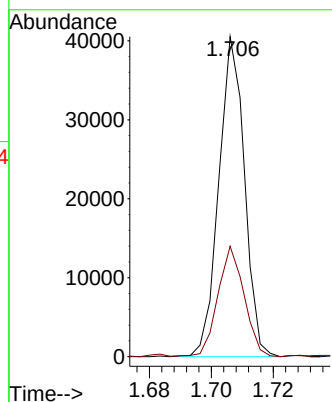
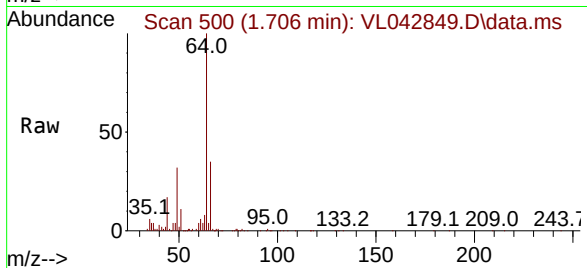




#7  
Chloroethane  
Concen: 8.360 ppbv  
RT: 1.706 min Scan# 500  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

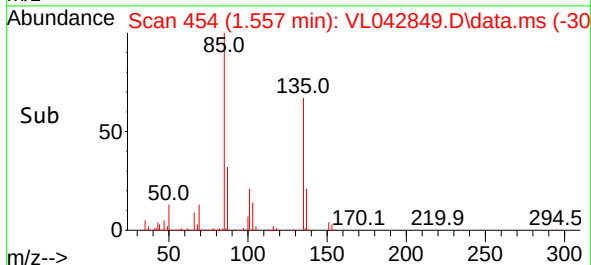
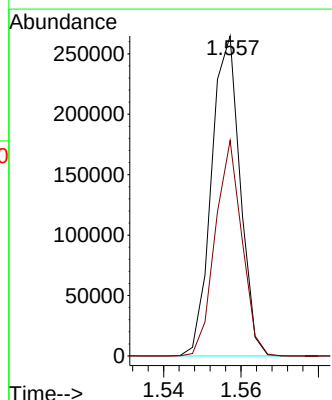
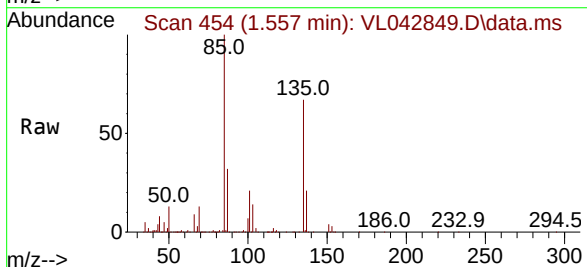
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL081325

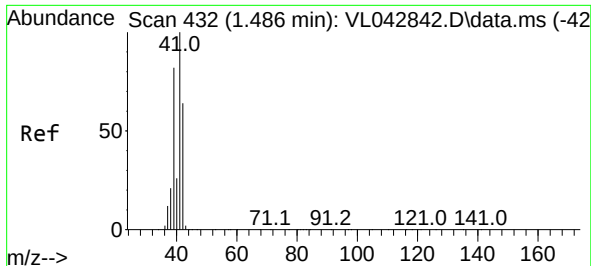
Tgt Ion: 64 Resp: 23293  
Ion Ratio Lower Upper  
64 100  
66 34.5 28.6 42.8



#8  
Dichlorotetrafluoroethane  
Concen: 9.248 ppbv  
RT: 1.557 min Scan# 454  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 85 Resp: 135845  
Ion Ratio Lower Upper  
85 100  
135 62.9 51.2 76.8





#9

Propene

Concen: 8.922 ppbv

RT: 1.483 min Scan# 41

Delta R.T. -0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

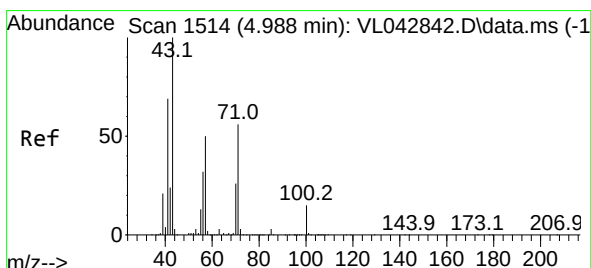
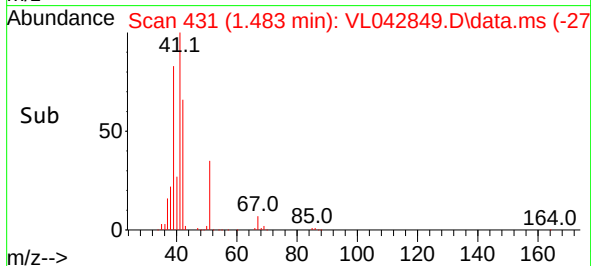
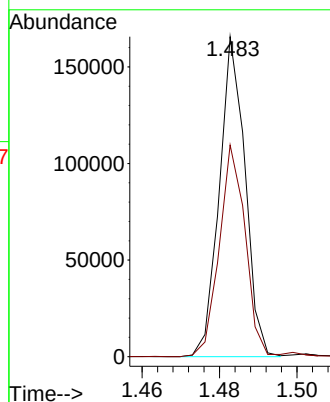
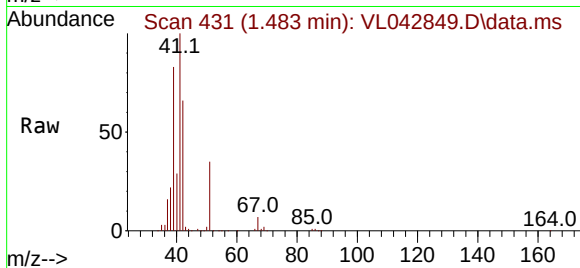
ICVVL081325

Tgt Ion: 41 Resp: 76457

Ion Ratio Lower Upper

41 100

42 68.4 53.0 79.4



#10

Heptane

Concen: 8.990 ppbv

RT: 4.988 min Scan# 1514

Delta R.T. 0.000 min

Lab File: VL042849.D

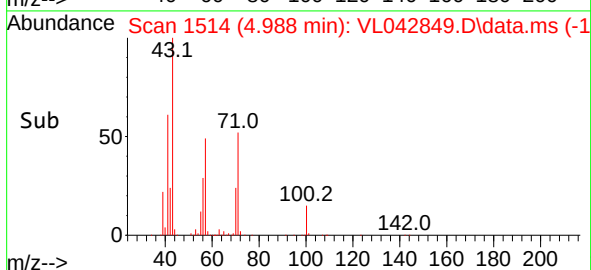
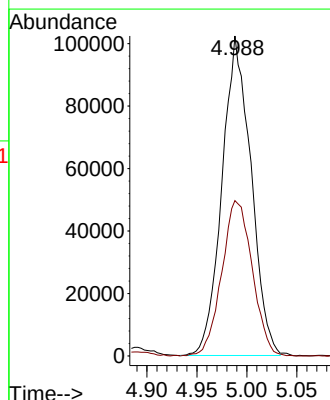
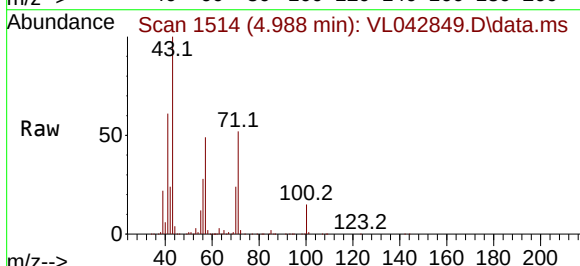
Acq: 13 Aug 2025 12:56

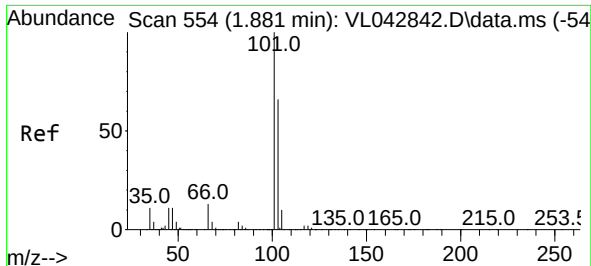
Tgt Ion: 43 Resp: 206333

Ion Ratio Lower Upper

43 100

57 51.2 41.4 62.0

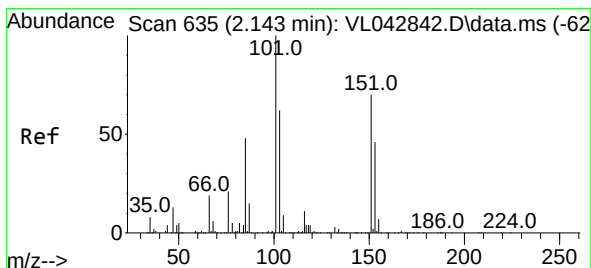
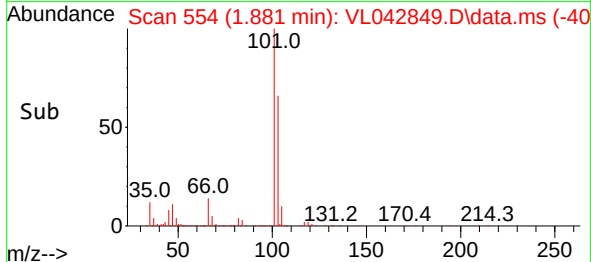
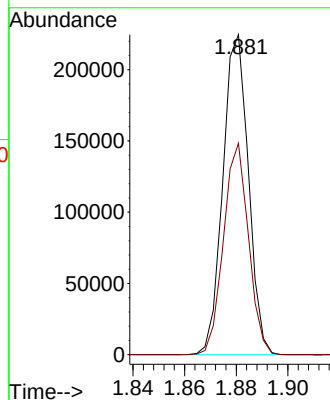
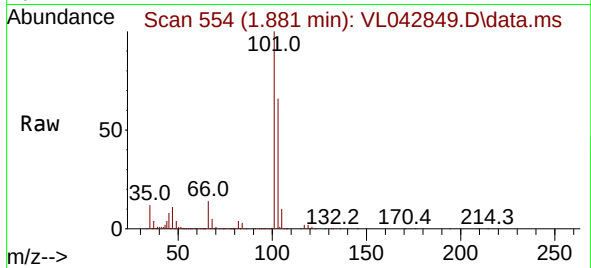




#11  
Trichlorofluoromethane  
Concen: 8.707 ppbv  
RT: 1.881 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

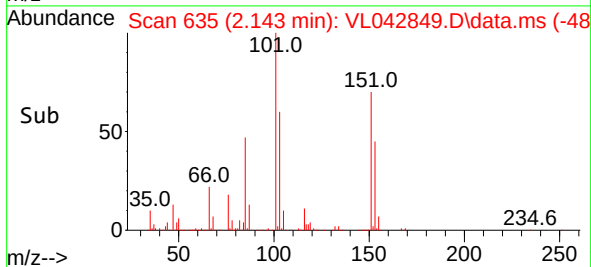
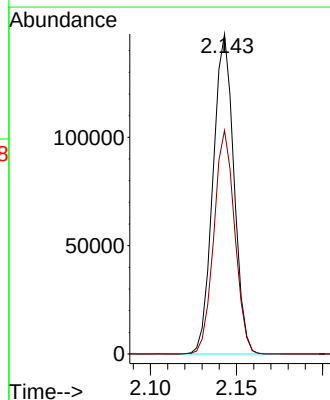
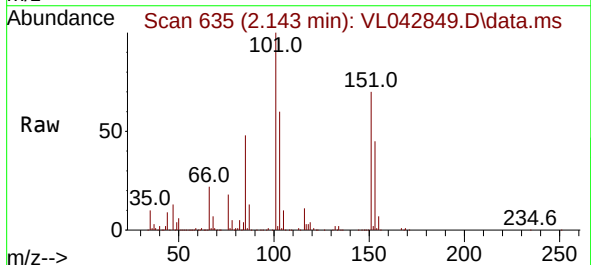
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MSVOA\_L  
ClientSampleId :  
ICVVL081325

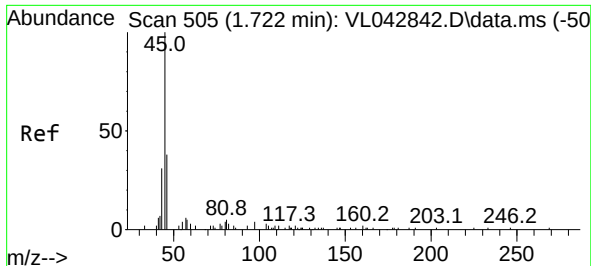
Tgt Ion:101 Resp: 154211  
Ion Ratio Lower Upper  
101 100  
103 66.1 52.5 78.7



#12  
1,1,2-Trichlorotrifluoroethane  
Concen: 8.824 ppbv  
RT: 2.143 min Scan# 635  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion:101 Resp: 124558  
Ion Ratio Lower Upper  
101 100  
151 69.7 56.4 84.6

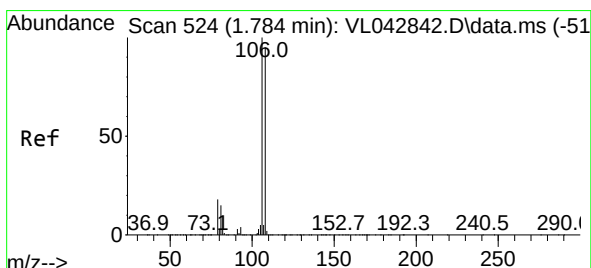
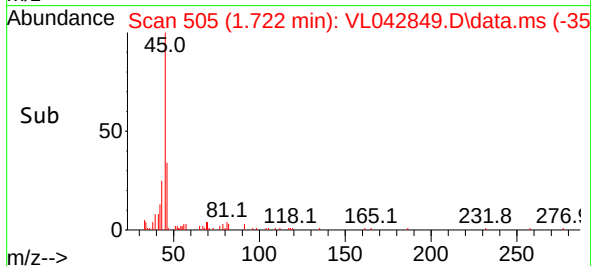
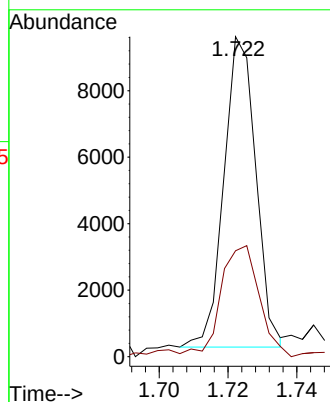
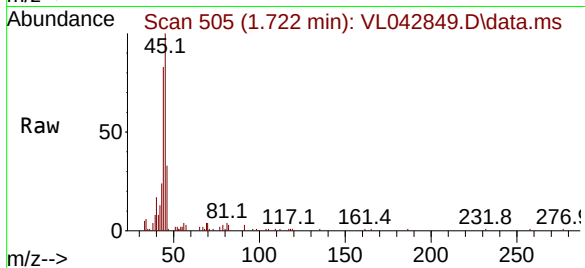




#13  
Ethanol  
Concen: 7.678 ppbv  
RT: 1.722 min Scan# 505  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

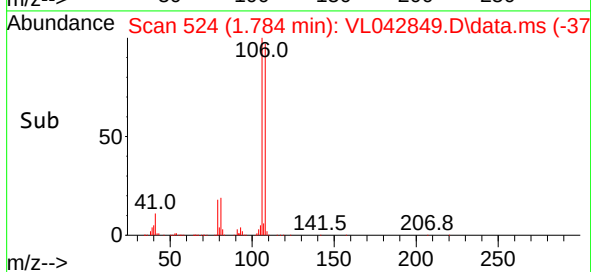
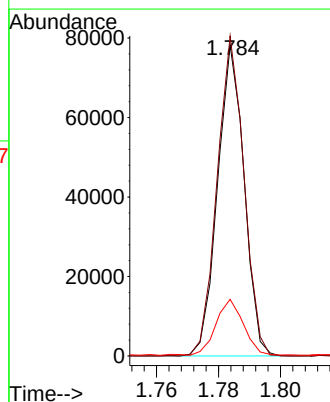
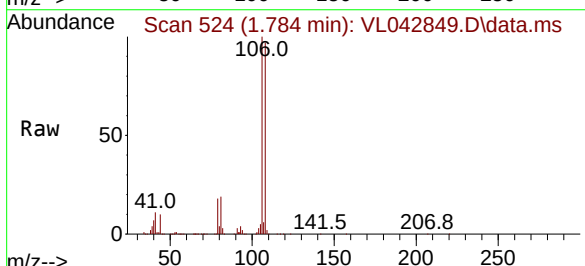
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

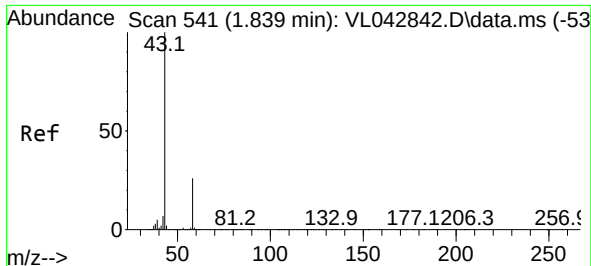
Tgt Ion: 45 Resp: 6016  
Ion Ratio Lower Upper  
45 100  
46 46.2 17.5 69.9



#14  
Bromoethene  
Concen: 9.105 ppbv  
RT: 1.784 min Scan# 524  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 108 Resp: 46528  
Ion Ratio Lower Upper  
108 100  
106 104.1 85.1 127.7  
79 19.8 16.3 24.5

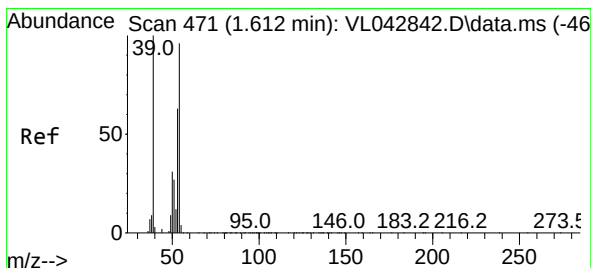
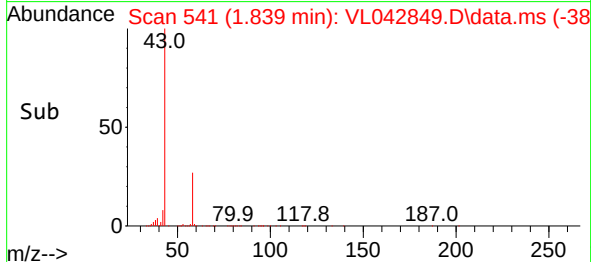
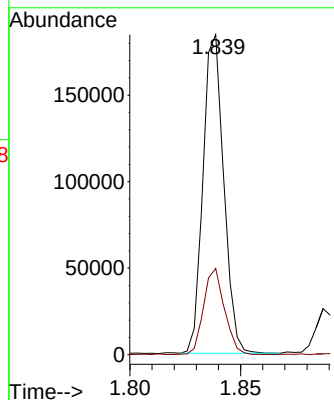
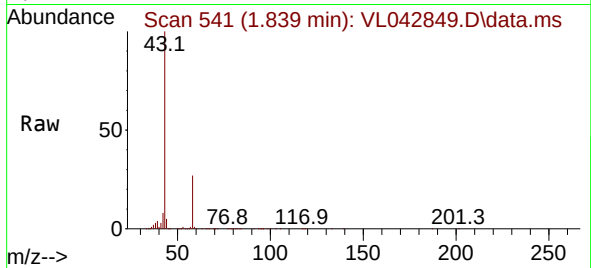




#15  
Acetone  
Concen: 7.389 ppbv  
RT: 1.839 min Scan# 541  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

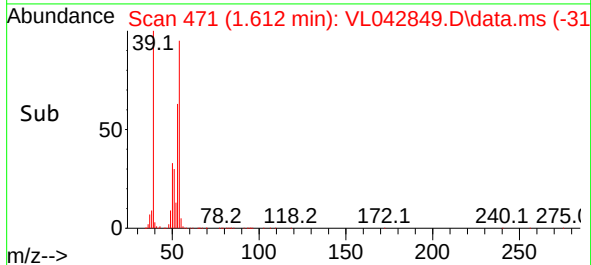
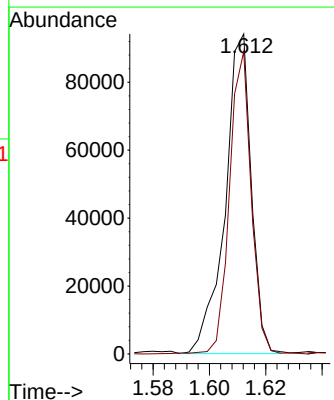
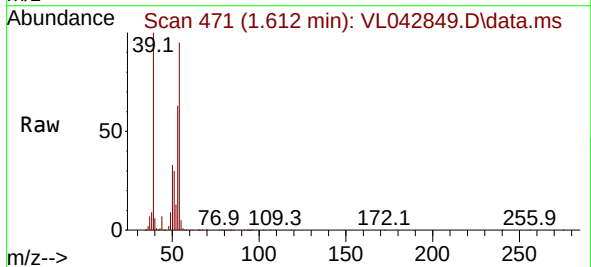
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

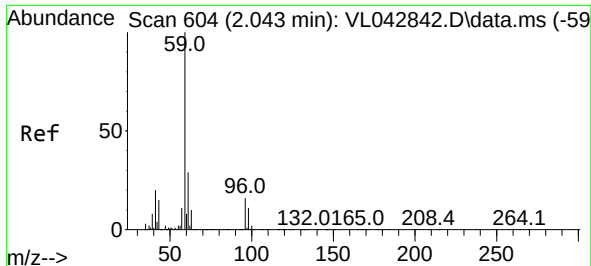
Tgt Ion: 43 Resp: 119723  
Ion Ratio Lower Upper  
43 100  
58 27.6 22.4 33.6



#16  
1,3-Butadiene  
Concen: 8.285 ppbv  
RT: 1.612 min Scan# 471  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 39 Resp: 60853  
Ion Ratio Lower Upper  
39 100  
54 78.9 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.663 ppbv

RT: 2.043 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_1

ClientSampleId :

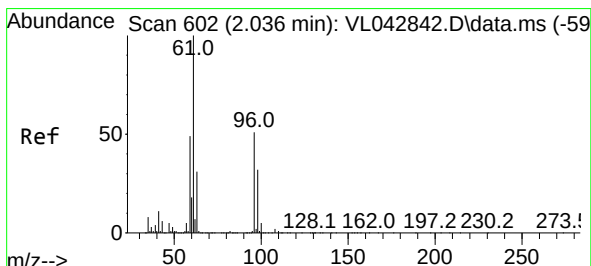
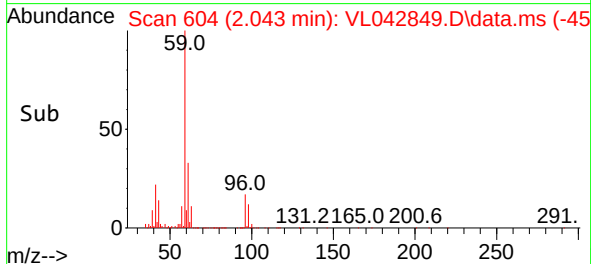
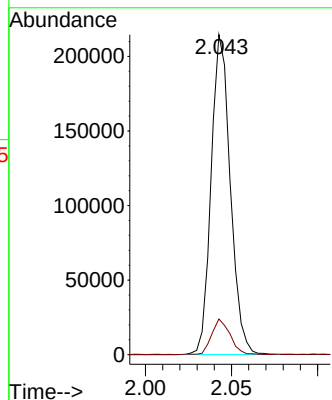
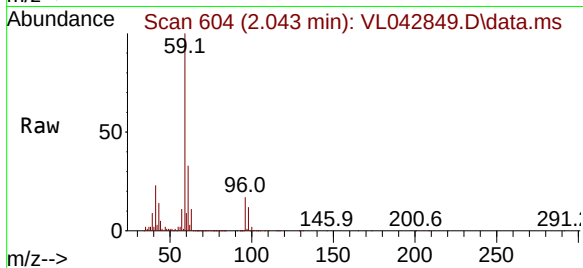
ICVVL081325

Tgt Ion: 59 Resp: 166457

Ion Ratio Lower Upper

59 100

57 10.7 9.0 13.4



#18

1,1-Dichloroethene

Concen: 9.087 ppbv

RT: 2.036 min Scan# 602

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

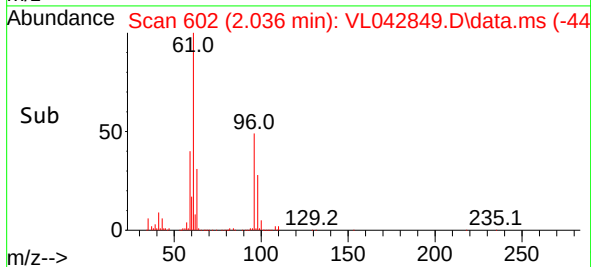
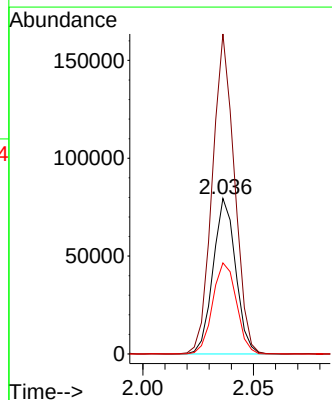
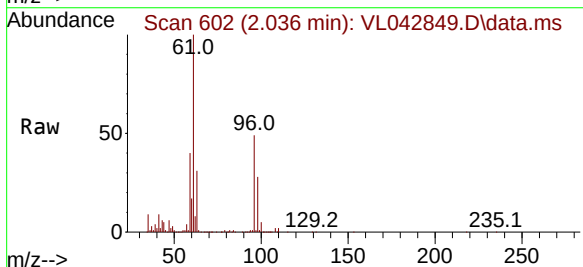
Tgt Ion: 96 Resp: 56397

Ion Ratio Lower Upper

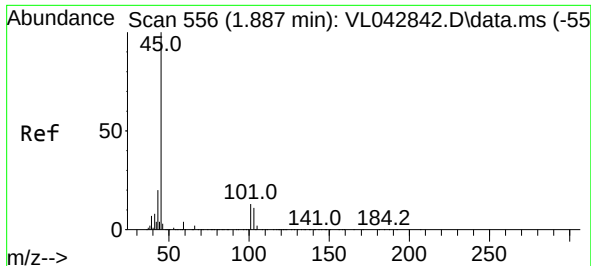
96 100

61 205.8 158.2 237.4

98 58.5 50.6 76.0



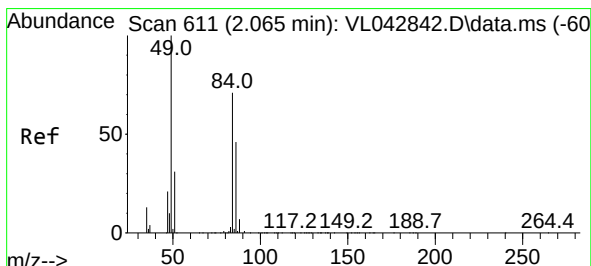
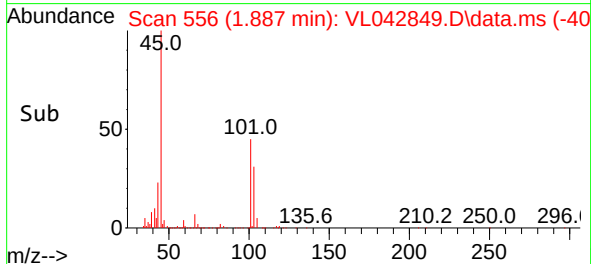
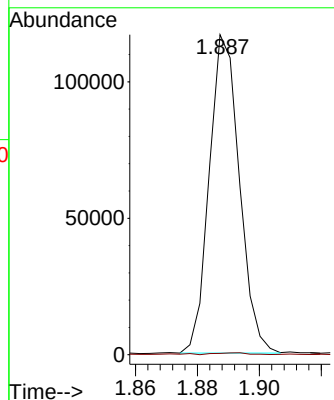
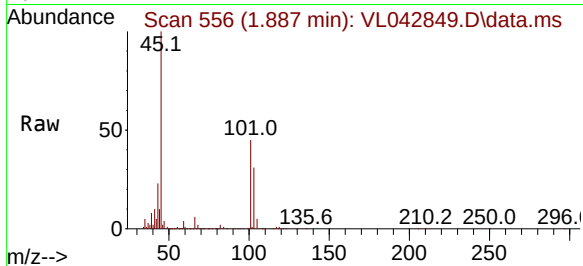




#19  
Isopropyl Alcohol  
Concen: 8.146 ppbv  
RT: 1.887 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

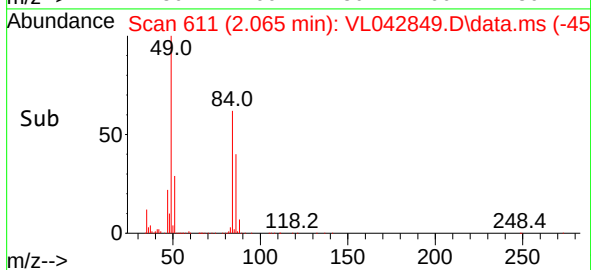
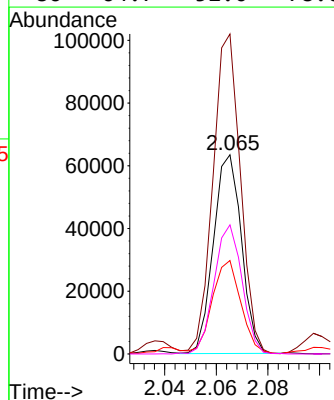
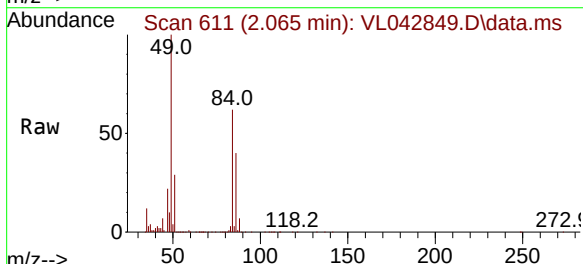
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

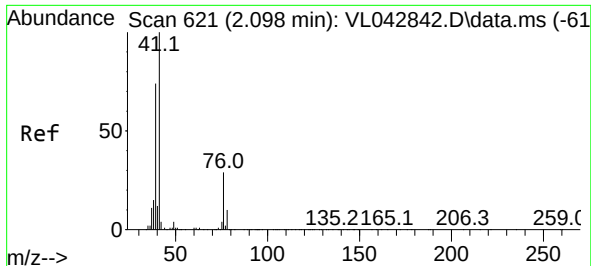
Tgt Ion: 45 Resp: 78832  
Ion Ratio Lower Upper  
45 100  
58 42.0 32.7 49.1



#20  
Methylene Chloride  
Concen: 7.041 ppbv  
RT: 2.065 min Scan# 611  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 84 Resp: 47793  
Ion Ratio Lower Upper  
84 100  
49 160.7 112.3 168.5  
51 46.9 36.0 54.0  
86 64.7 52.0 78.0





#21

Allyl Chloride

Concen: 8.956 ppbv

RT: 2.098 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081325

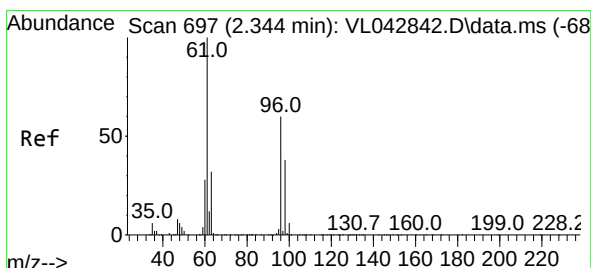
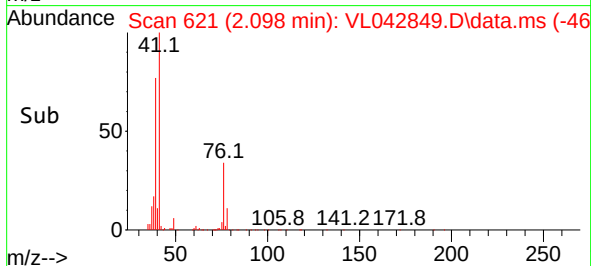
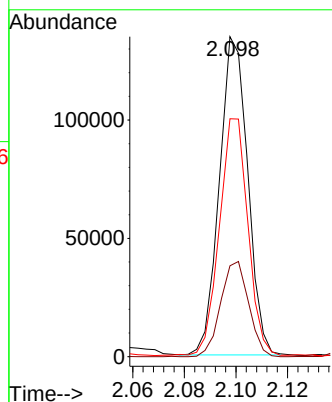
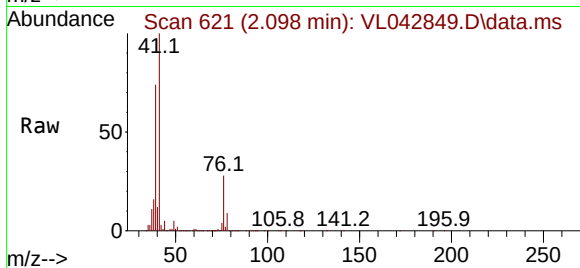
Tgt Ion: 41 Resp: 102514

Ion Ratio Lower Upper

41 100

76 29.5 23.9 35.9

39 76.1 57.8 86.6



#22

trans-1,2-Dichloroethene

Concen: 8.904 ppbv

RT: 2.344 min Scan# 697

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

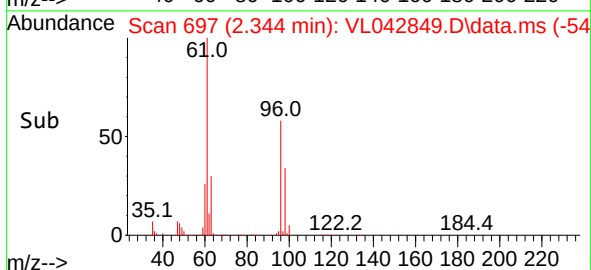
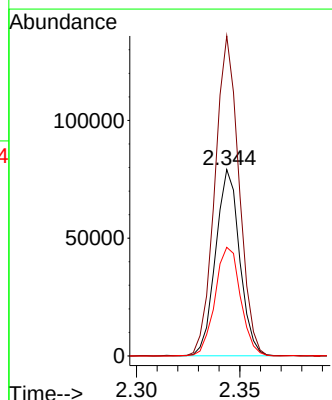
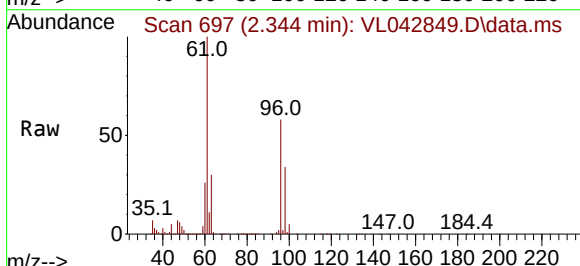
Tgt Ion: 96 Resp: 63932

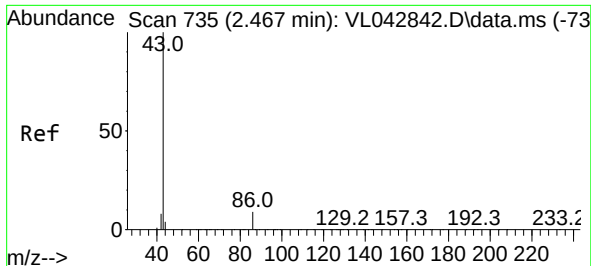
Ion Ratio Lower Upper

96 100

61 171.8 132.6 199.0

98 58.3 50.0 75.0

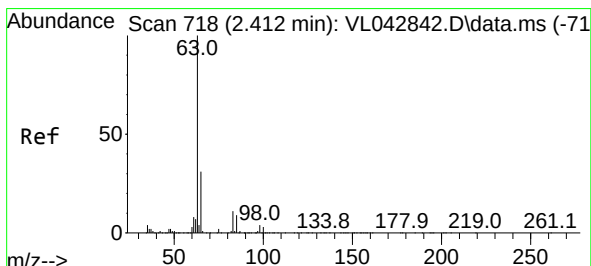
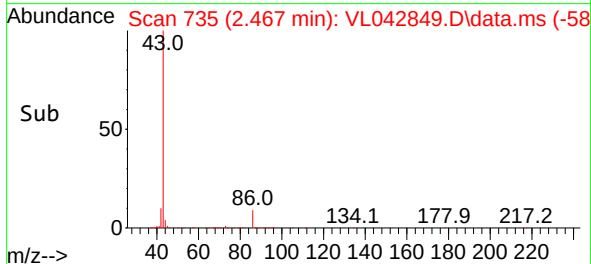
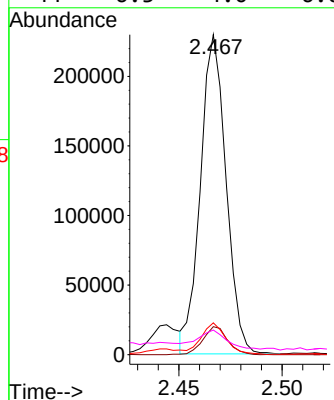
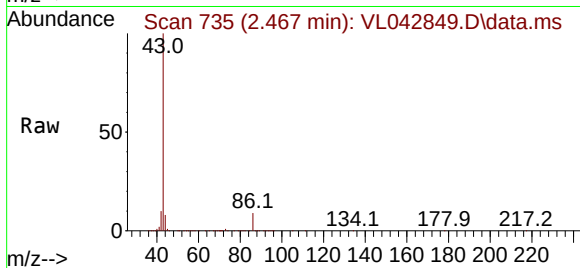




#23  
 Vinyl Acetate  
 Concen: 8.891 ppbv  
 RT: 2.467 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

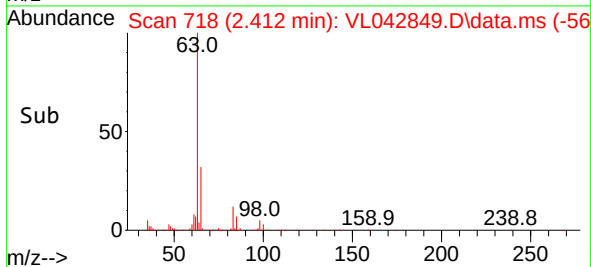
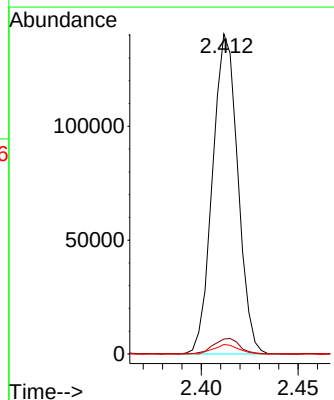
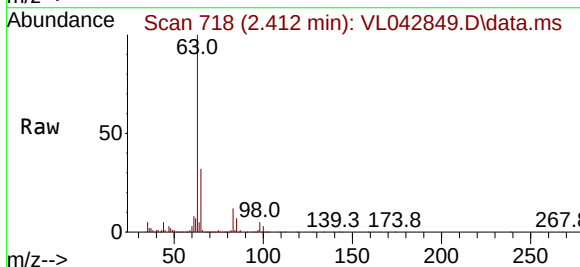
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL081325

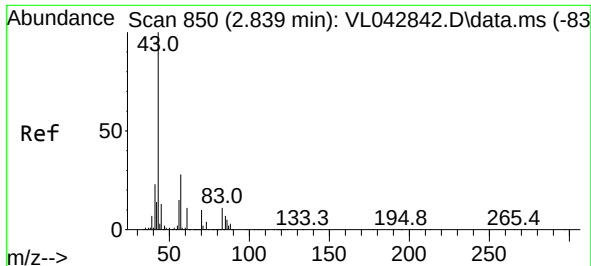
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 198083 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 86       | 8.8   | 6.6   | 9.8    |
| 42       | 9.8   | 7.0   | 10.6   |
| 44       | 6.3   | 4.0   | 6.0    |



#24  
 1,1-Dichloroethane  
 Concen: 8.903 ppbv  
 RT: 2.412 min Scan# 718  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 63    | Resp: | 127660 |
| Ion      | Ratio | Lower | Upper  |
| 63       | 100   |       |        |
| 98       | 4.6   | 2.1   | 6.5    |
| 100      | 3.0   | 1.7   | 5.1    |

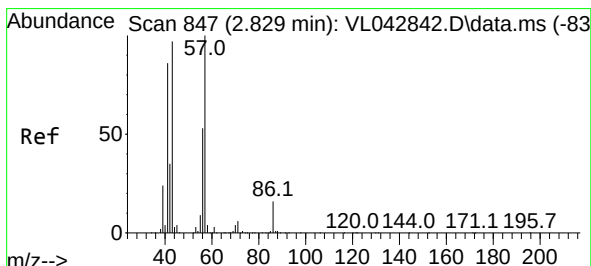
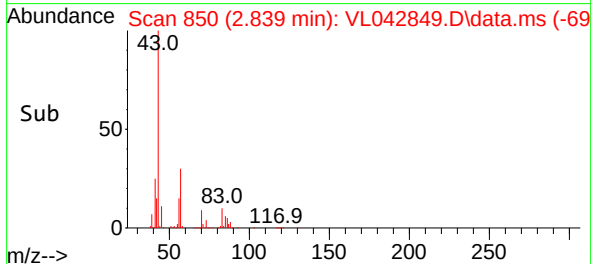
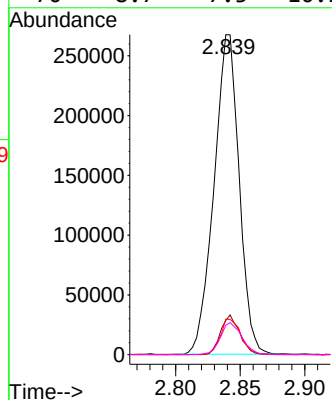
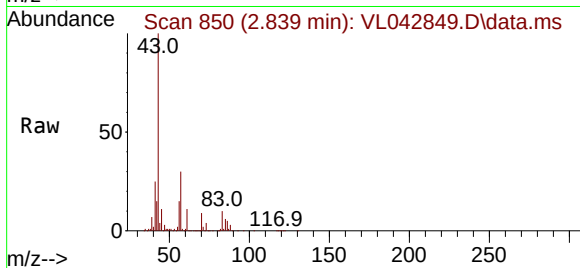




#25  
Ethyl Acetate  
Concen: 9.240 ppbv  
RT: 2.839 min Scan# 850  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

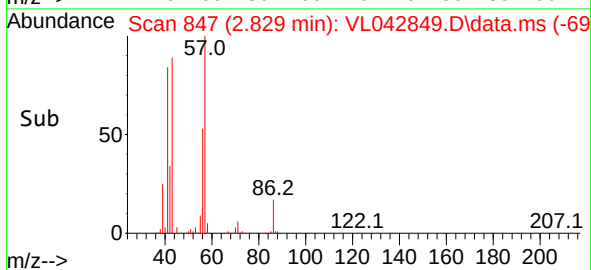
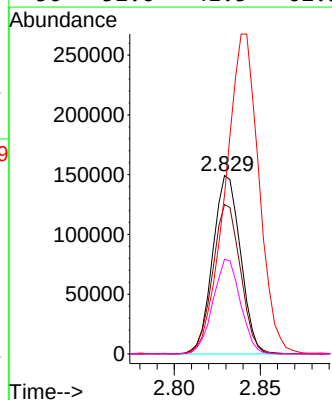
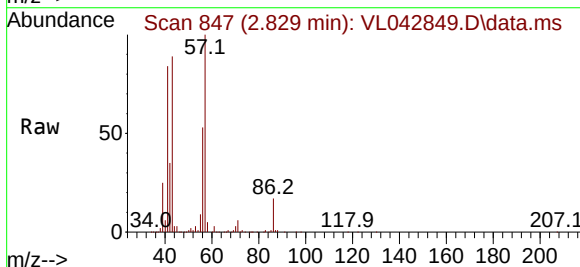
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

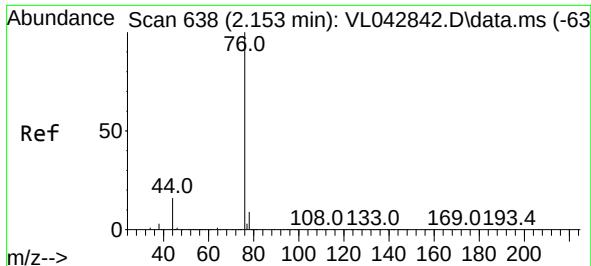
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 362325 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 9.5   | 8.1   | 12.1   |
| 61       | 9.1   | 7.4   | 11.2   |
| 70       | 8.7   | 7.3   | 10.9   |



#26  
Hexane  
Concen: 9.246 ppbv  
RT: 2.829 min Scan# 847  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 167364 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 85.0  | 68.6  | 103.0  |
| 43       | 218.2 | 168.5 | 252.7  |
| 56       | 52.6  | 41.5  | 62.3   |

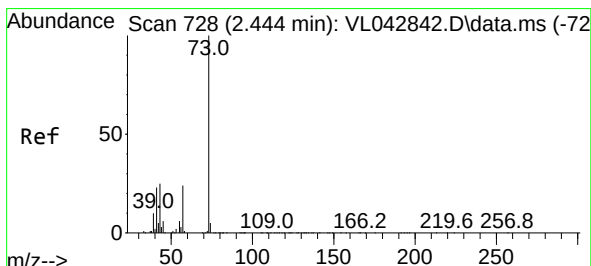
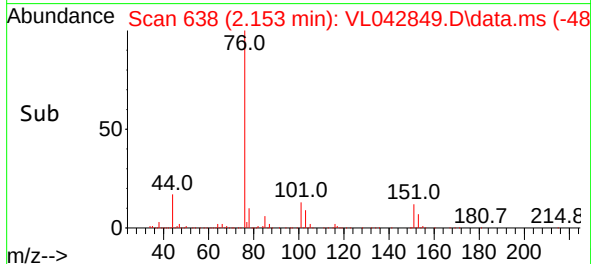
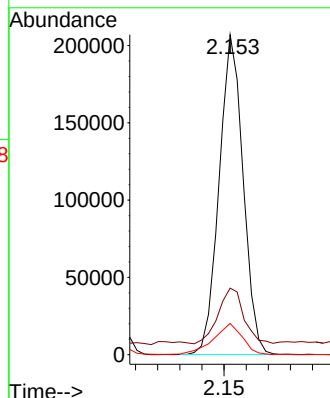
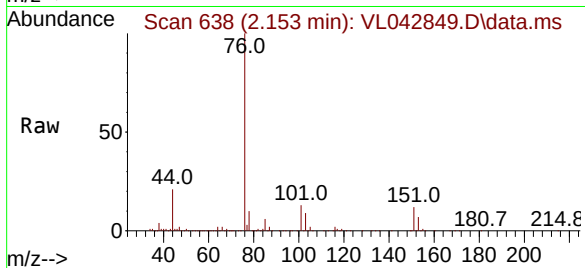




#27  
Carbon Disulfide  
Concen: 8.841 ppbv  
RT: 2.153 min Scan# 638  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

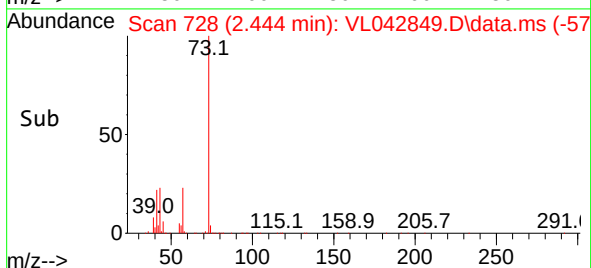
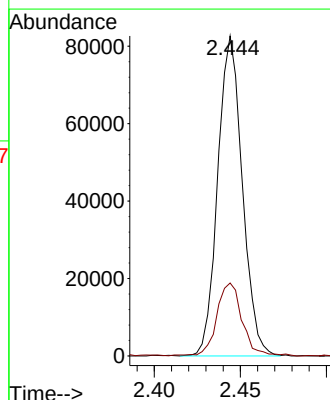
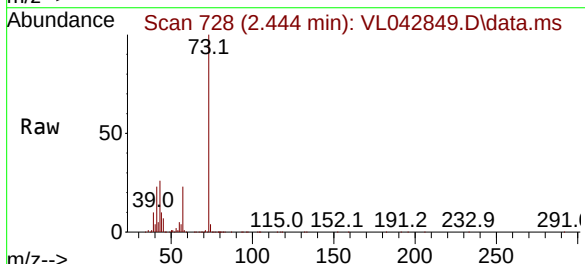
Instrument : MSVOA\_L  
ClientSampleId : ICVVL081325

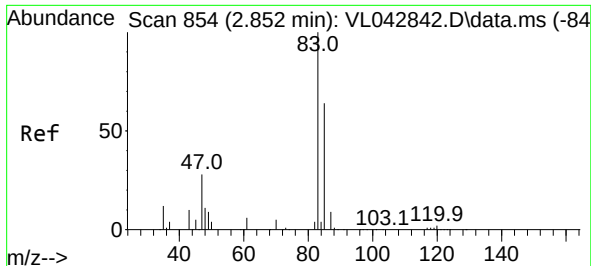
Tgt Ion: 76 Resp: 155729  
Ion Ratio Lower Upper  
76 100  
44 19.2 15.9 23.9  
78 11.9 9.5 14.3



#28  
Methyl tert-Butyl Ether  
Concen: 8.898 ppbv  
RT: 2.444 min Scan# 728  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 73 Resp: 82126  
Ion Ratio Lower Upper  
73 100  
57 22.9 21.6 32.4





#29

Chloroform

Concen: 9.377 ppbv

RT: 2.855 min Scan# 8

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

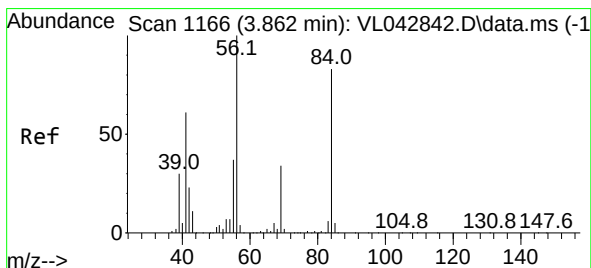
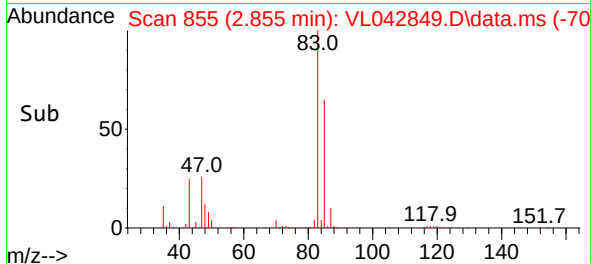
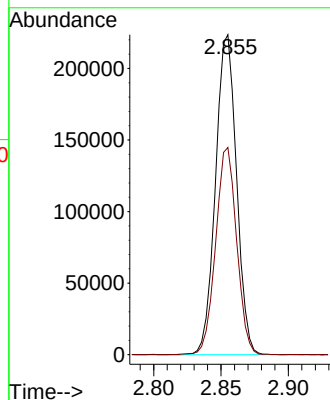
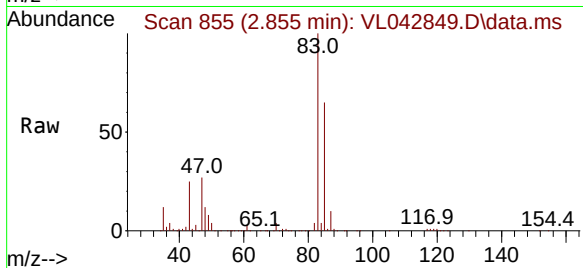
ICVVL081325

Tgt Ion: 83 Resp: 242320

Ion Ratio Lower Upper

83 100

85 64.8 51.1 76.7



#30

Cyclohexane

Concen: 9.289 ppbv

RT: 3.865 min Scan# 1167

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

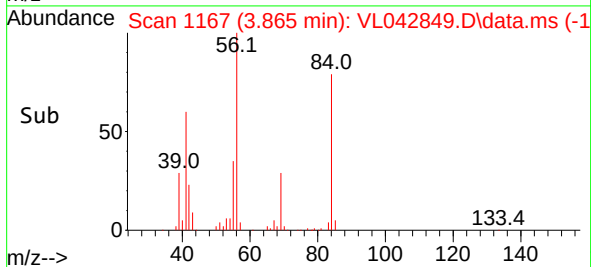
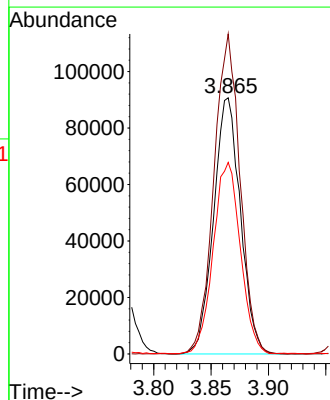
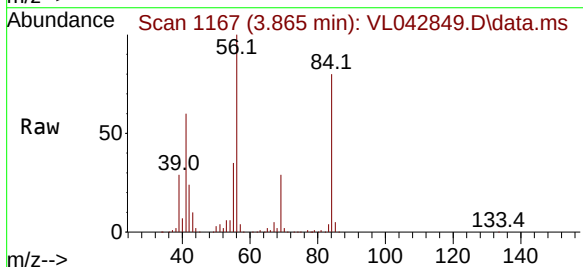
Tgt Ion: 84 Resp: 147417

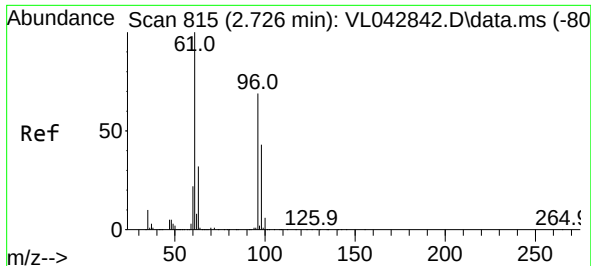
Ion Ratio Lower Upper

84 100

56 122.1 98.8 148.2

41 75.8 61.3 91.9

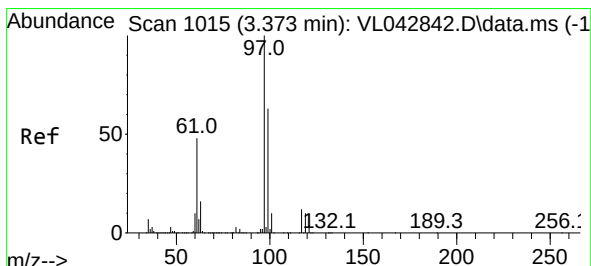
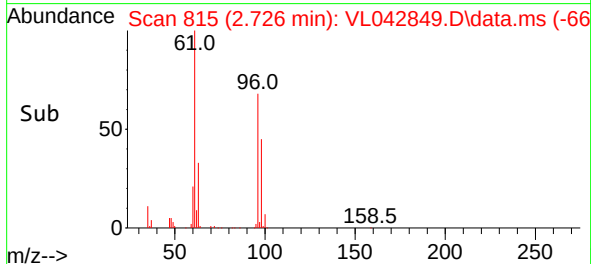
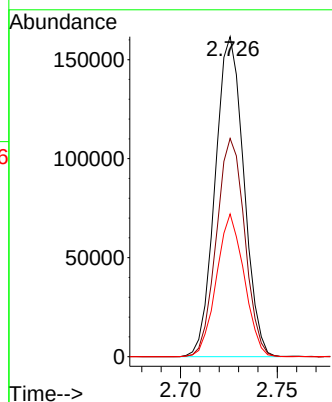
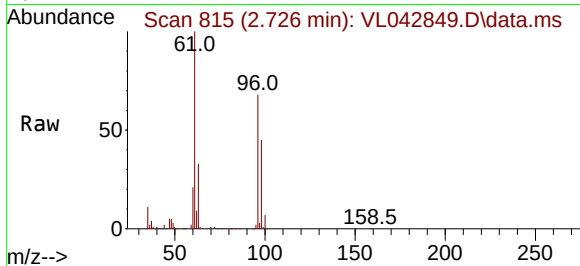




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.196 ppbv  
 RT: 2.726 min Scan# 815  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

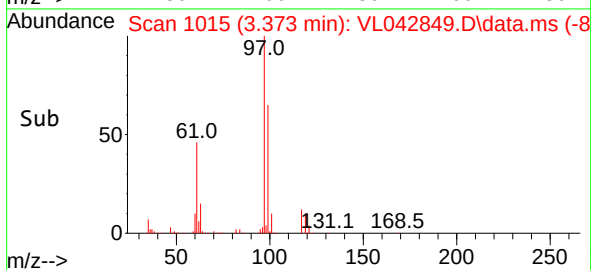
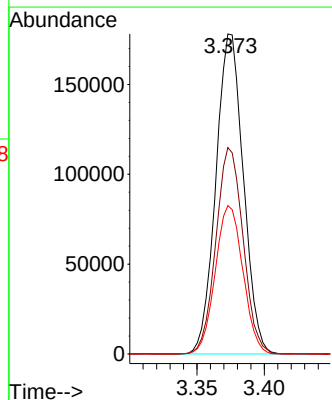
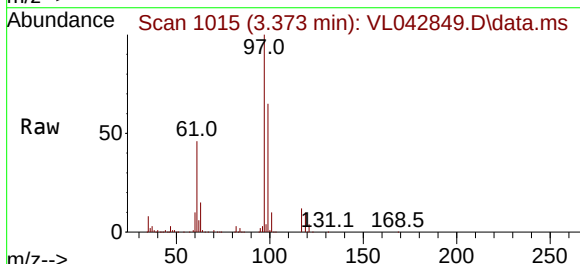
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 ICVVL081325

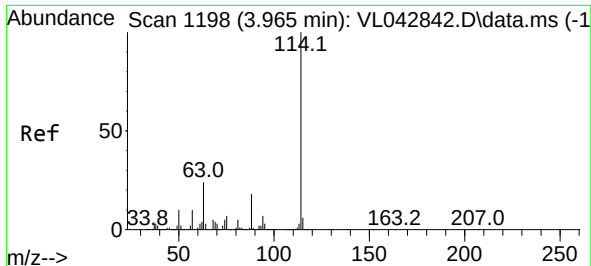
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 61    | Resp: | 166268 |
| Ion      | Ratio | Lower | Upper  |
| 61       | 100   |       |        |
| 96       | 68.2  | 55.0  | 82.6   |
| 98       | 44.5  | 34.3  | 51.5   |



#32  
 1,1,1-Trichloroethane  
 Concen: 9.256 ppbv  
 RT: 3.373 min Scan# 1015  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 252813 |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 63.8  | 51.0  | 76.6   |
| 61       | 46.7  | 38.0  | 57.0   |





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.965 min Scan# 1198

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_1

ClientSampleId :

ICVVL081325

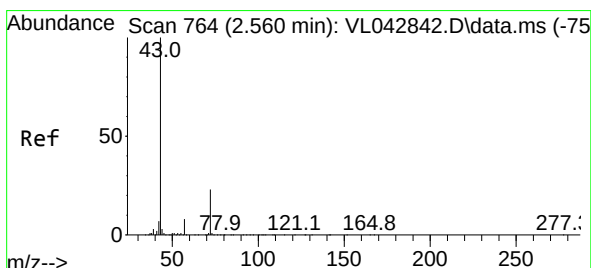
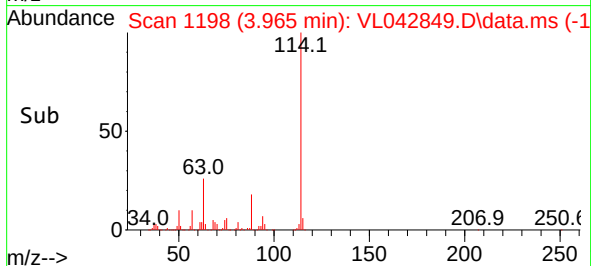
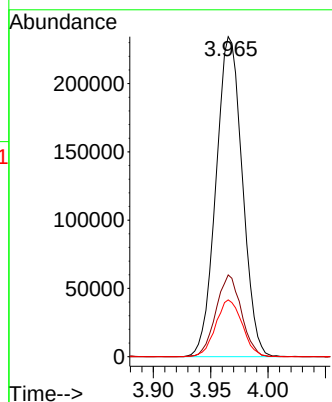
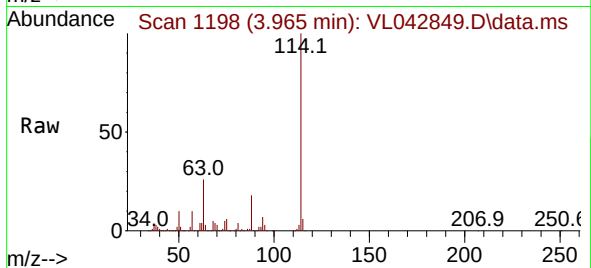
Tgt Ion:114 Resp: 374448

Ion Ratio Lower Upper

114 100

63 24.6 19.7 29.5

88 17.9 14.4 21.6



#34

2-Butanone

Concen: 9.135 ppbv

RT: 2.561 min Scan# 764

Delta R.T. 0.000 min

Lab File: VL042849.D

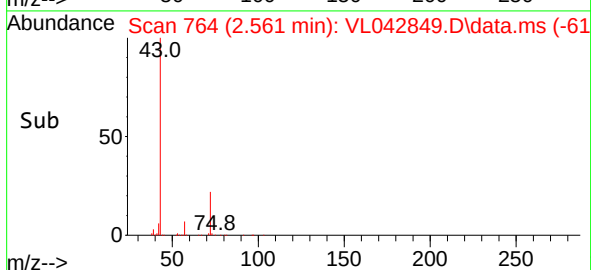
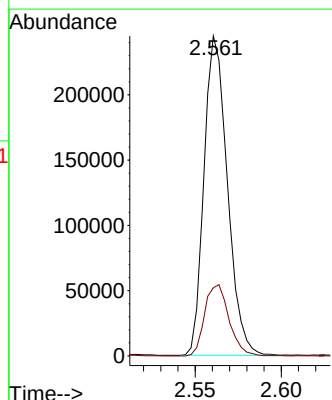
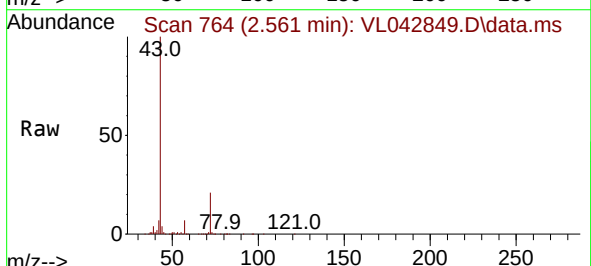
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 230961

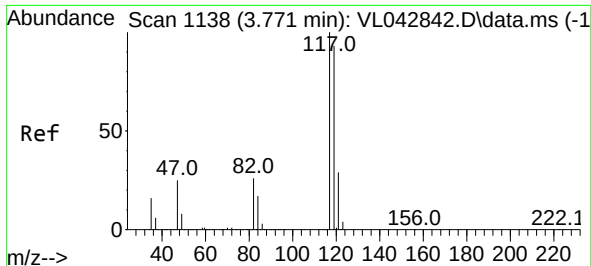
Ion Ratio Lower Upper

43 100

72 23.4 18.6 28.0



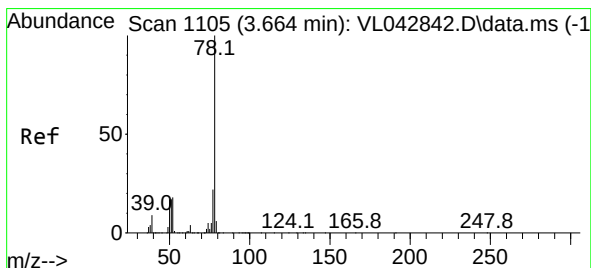
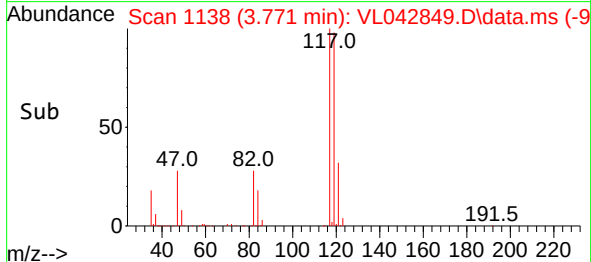
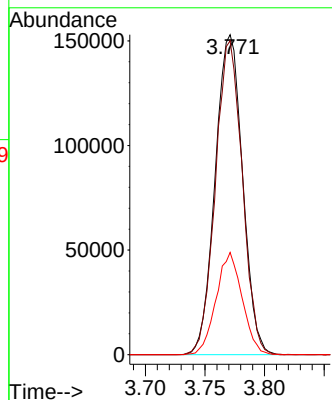
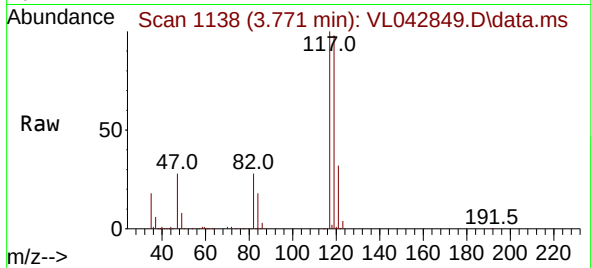




#35  
Carbon Tetrachloride  
Concen: 9.478 ppbv  
RT: 3.771 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

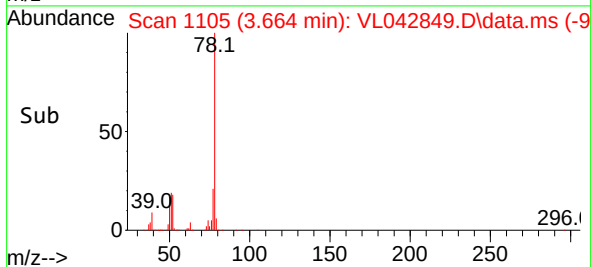
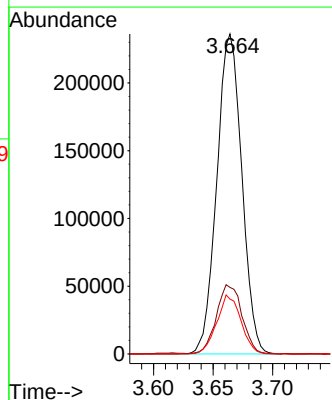
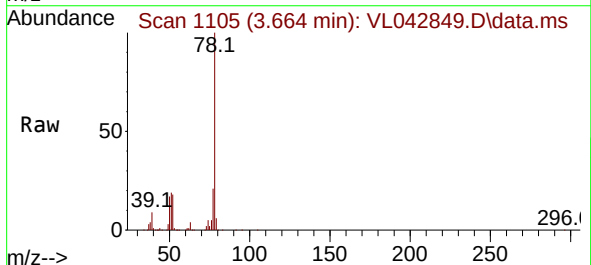
Instrument : MSVOA\_L  
ClientSampleId : ICVVL081325

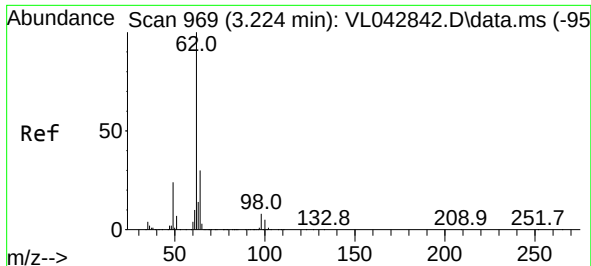
Tgt Ion:117 Resp: 244671  
Ion Ratio Lower Upper  
117 100  
119 98.1 74.7 112.1  
121 32.0 23.2 34.8



#36  
Benzene  
Concen: 9.592 ppbv  
RT: 3.664 min Scan# 1105  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 78 Resp: 343952  
Ion Ratio Lower Upper  
78 100  
77 20.8 17.7 26.5  
50 17.1 13.9 20.9





#37

1,2-Dichloroethane

Concen: 9.991 ppbv

RT: 3.224 min Scan# 969

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

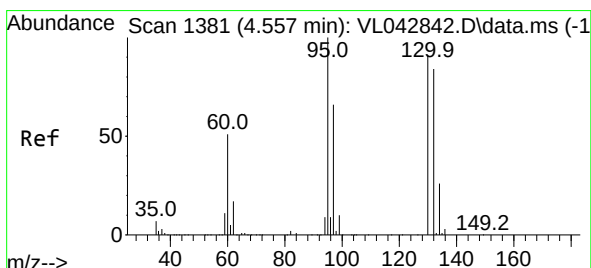
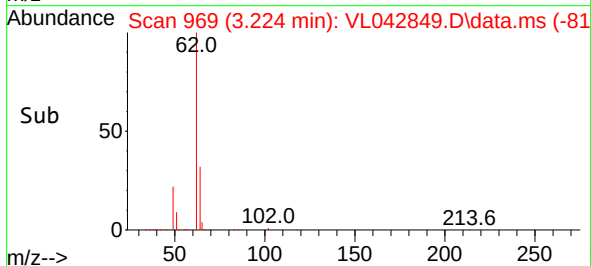
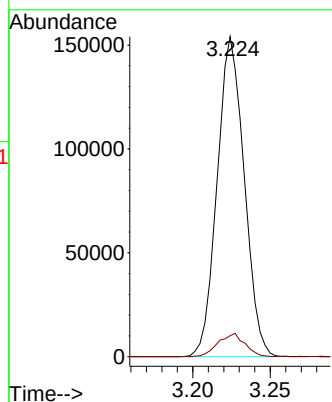
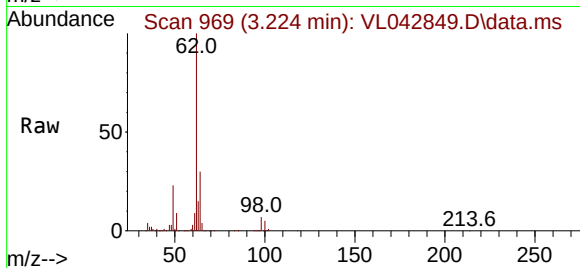
ICVVL081325

Tgt Ion: 62 Resp: 187160

Ion Ratio Lower Upper

62 100

98 7.2 5.9 8.9



#38

Trichloroethene

Concen: 9.202 ppbv

RT: 4.558 min Scan# 1381

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:130 Resp: 150693

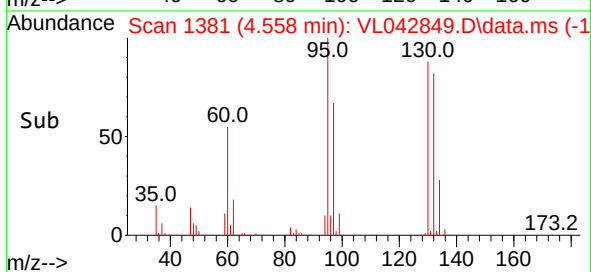
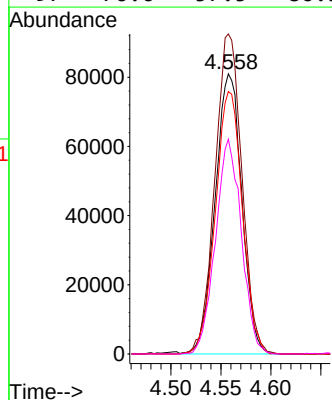
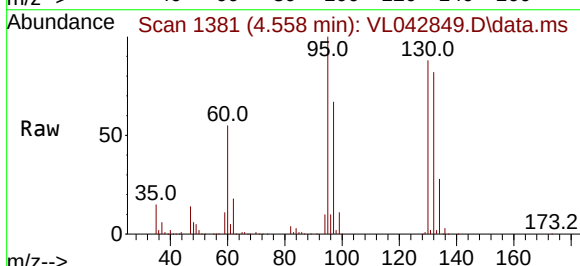
Ion Ratio Lower Upper

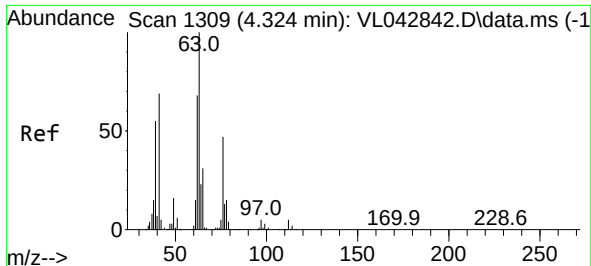
130 100

95 114.2 87.6 131.4

132 93.6 73.8 110.8

97 76.6 57.5 86.3





#39

1,2-Dichloropropane

Concen: 9.436 ppbv

RT: 4.324 min Scan# 1

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081325

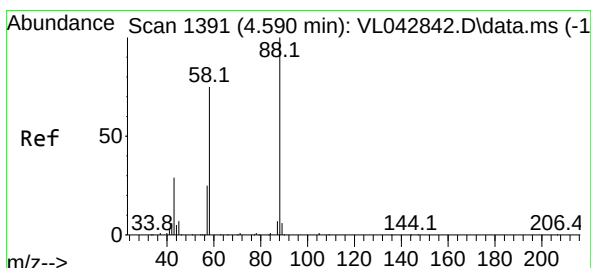
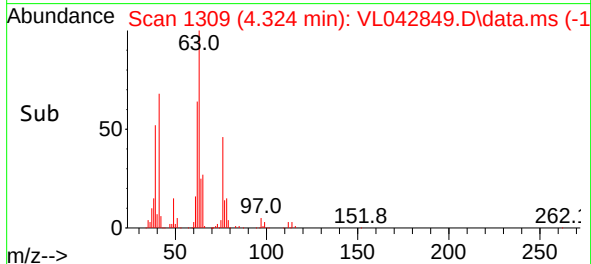
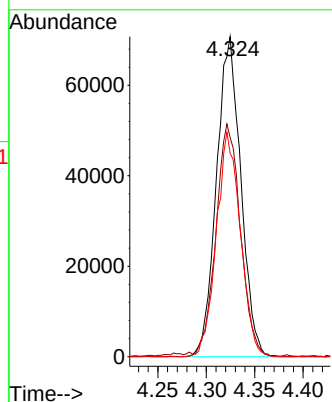
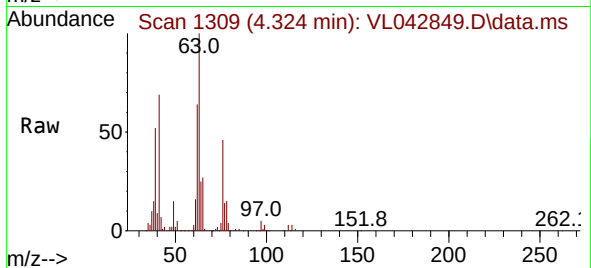
Tgt Ion: 63 Resp: 123566

Ion Ratio Lower Upper

63 100

41 68.4 55.0 82.4

62 63.6 54.4 81.6



#40

1,4-Dioxane

Concen: 8.879 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion: 88 Resp: 55292

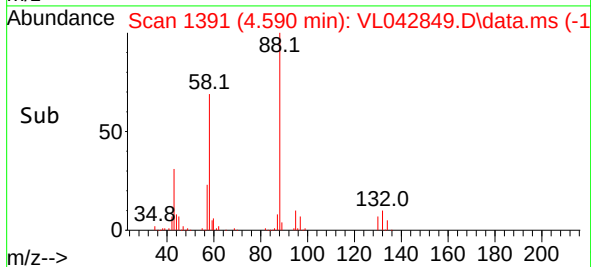
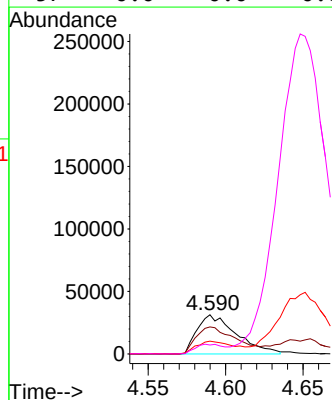
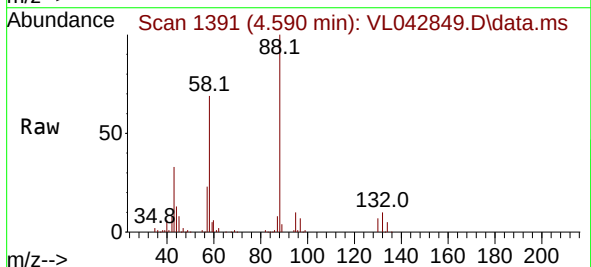
Ion Ratio Lower Upper

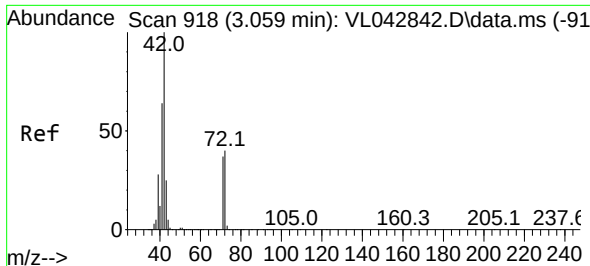
88 100

58 72.7 53.8 80.6

43 32.4 22.8 34.2

57 0.0 0.0 0.0

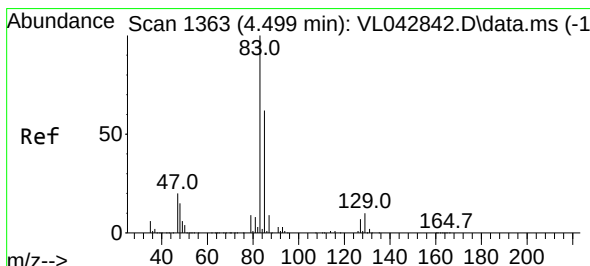
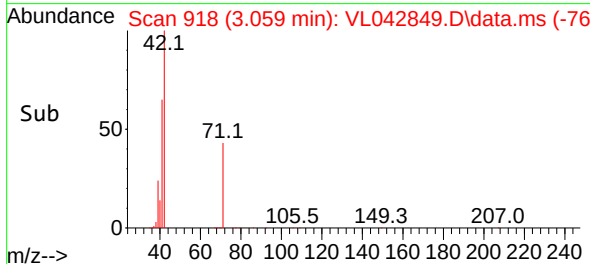
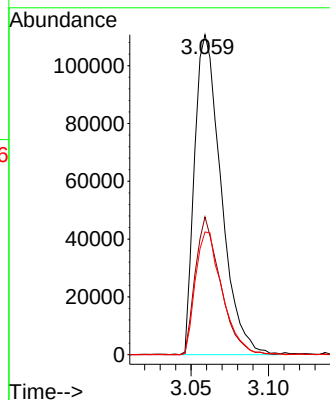
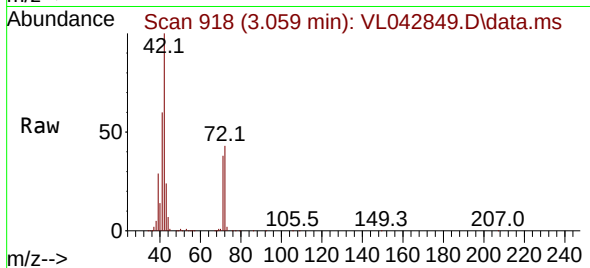




#41  
Tetrahydrofuran  
Concen: 9.372 ppbv  
RT: 3.059 min Scan# 918  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

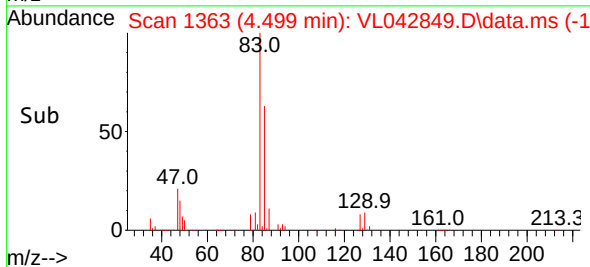
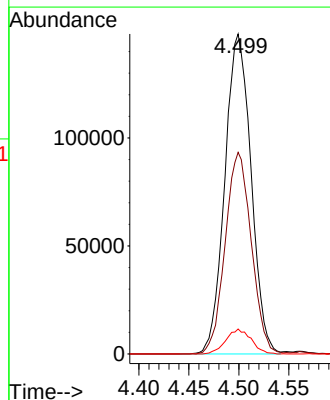
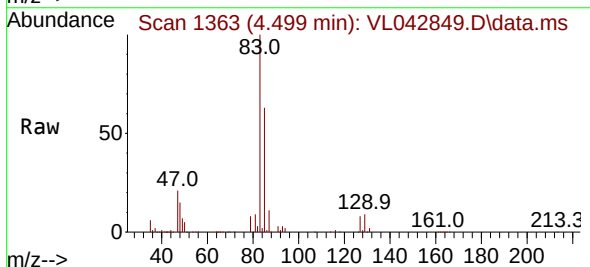
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

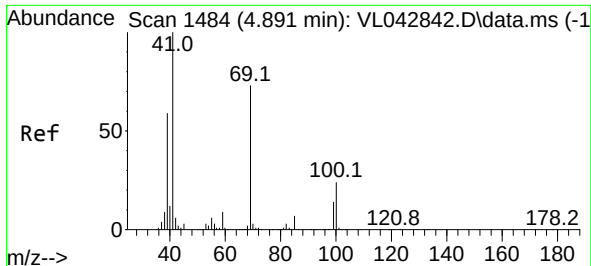
Tgt Ion: 42 Resp: 132108  
Ion Ratio Lower Upper  
42 100  
72 40.8 32.6 48.8  
71 39.0 30.0 45.0



#42  
Bromodichloromethane  
Concen: 9.678 ppbv  
RT: 4.499 min Scan# 1363  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 83 Resp: 270154  
Ion Ratio Lower Upper  
83 100  
85 63.0 49.8 74.8  
127 7.8 5.8 8.6

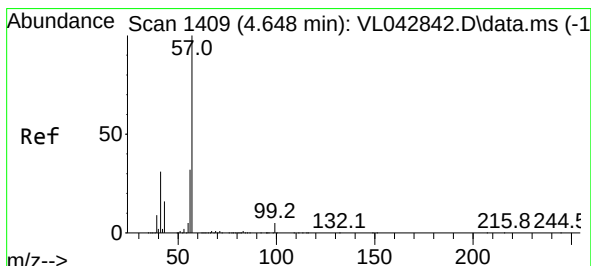
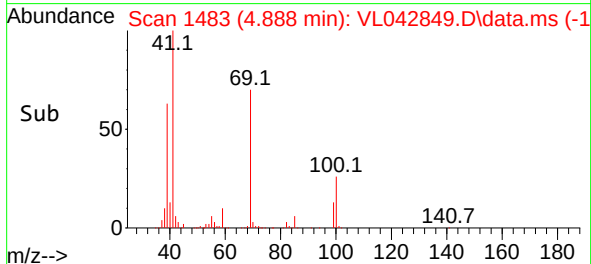
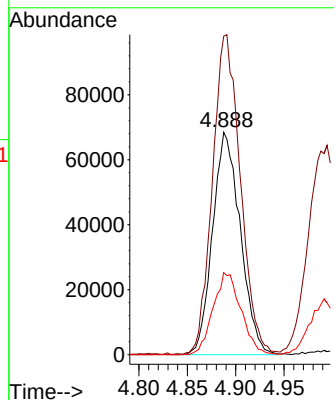
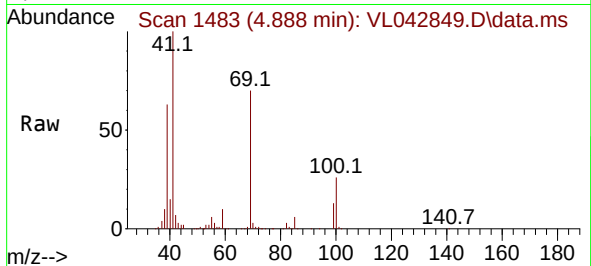




#43  
Methyl Methacrylate  
Concen: 9.229 ppbv  
RT: 4.888 min Scan# 1483  
Delta R.T. -0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

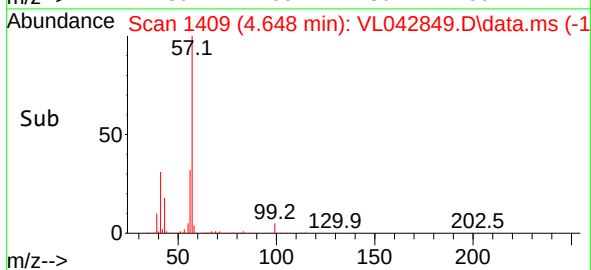
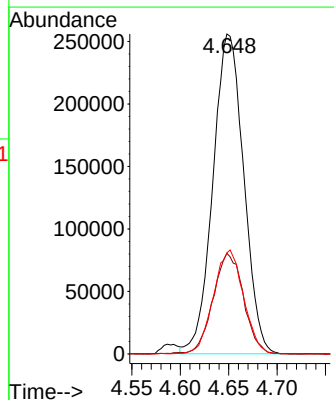
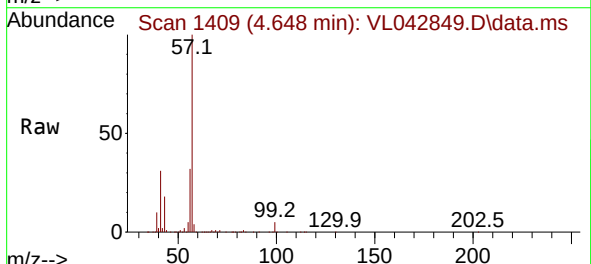
Instrument : MSVOA\_1  
ClientSampleId : ICVVL081325

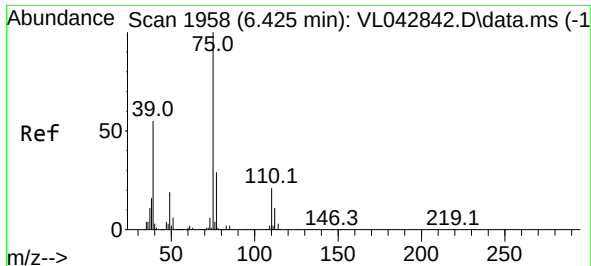
Tgt Ion: 69 Resp: 136329  
Ion Ratio Lower Upper  
69 100  
41 144.9 114.6 172.0  
100 37.0 30.2 45.4



#44  
2,2,4-Trimethylpentane  
Concen: 9.290 ppbv  
RT: 4.648 min Scan# 1409  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 57 Resp: 565415  
Ion Ratio Lower Upper  
57 100  
41 31.3 24.8 37.2  
56 31.9 25.5 38.3

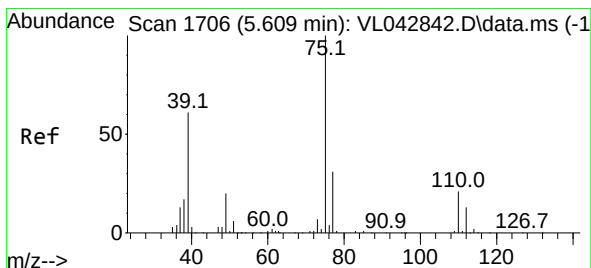
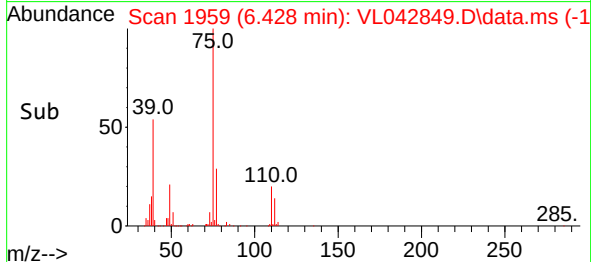
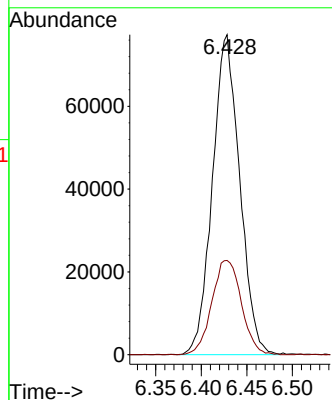
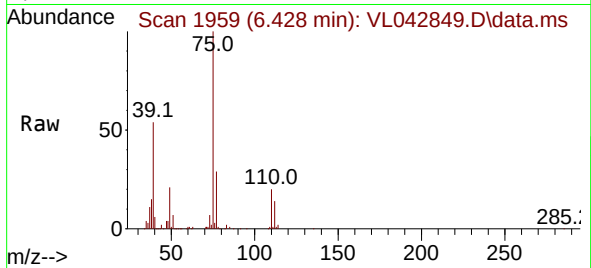




#45  
t-1,3-Dichloropropene  
Concen: 9.645 ppbv  
RT: 6.428 min Scan# 1958  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

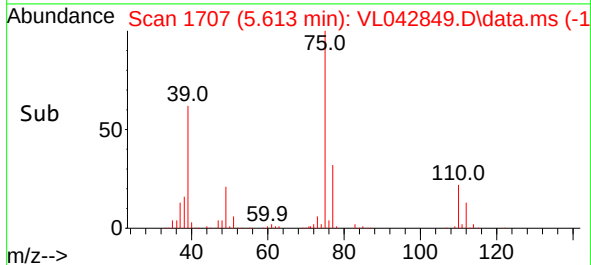
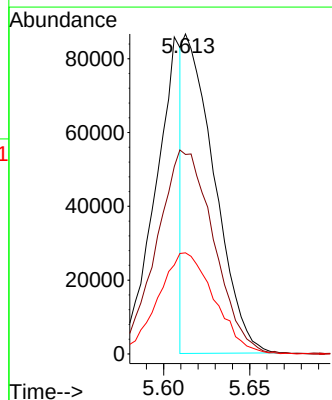
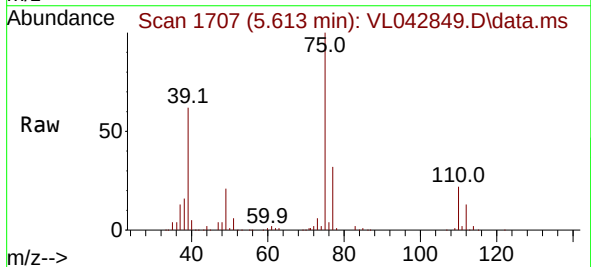
Instrument : MSVOA\_1  
ClientSampleId : ICVVL081325

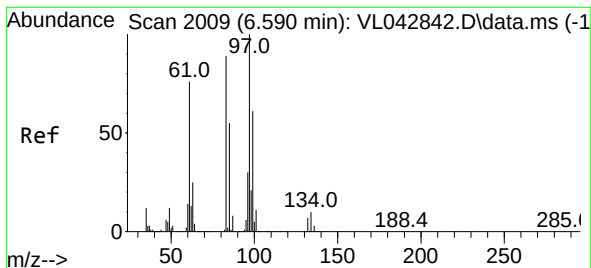
Tgt Ion: 75 Resp: 160784  
Ion Ratio Lower Upper  
75 100  
77 29.5 23.8 35.6



#46  
cis-1,3-Dichloropropene  
Concen: 5.200 ppbv  
RT: 5.613 min Scan# 1707  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 75 Resp: 108009  
Ion Ratio Lower Upper  
75 100  
39 62.2 48.9 73.3  
77 31.6 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 9.553 ppbv

RT: 6.597 min Scan# 2009

Delta R.T. 0.007 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081325

Tgt Ion: 97 Resp: 132548

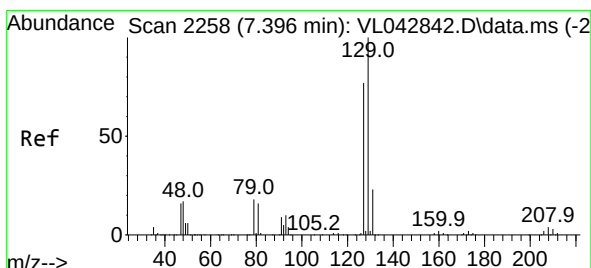
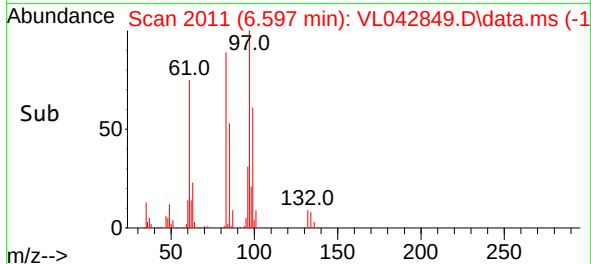
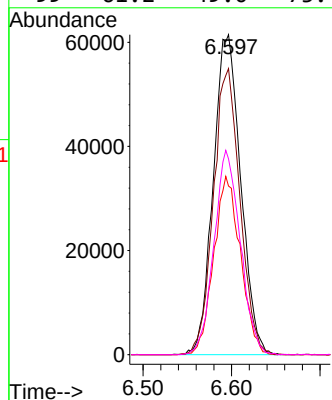
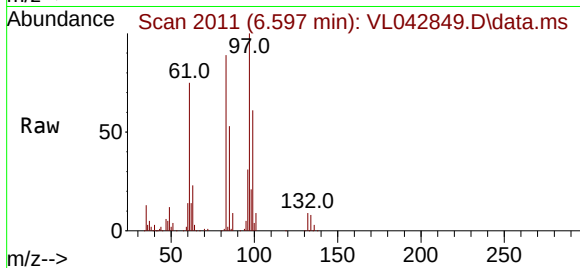
Ion Ratio Lower Upper

97 100

83 89.3 71.0 106.4

85 52.6 43.6 65.4

99 61.2 49.0 73.4



#48

Dibromochloromethane

Concen: 9.708 ppbv

RT: 7.399 min Scan# 2259

Delta R.T. 0.003 min

Lab File: VL042849.D

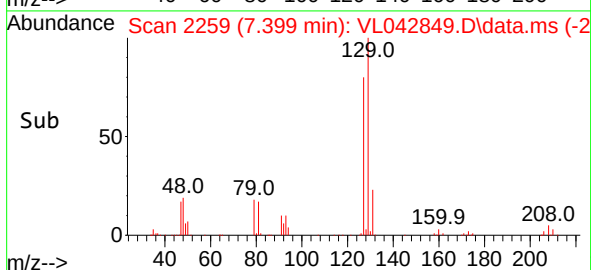
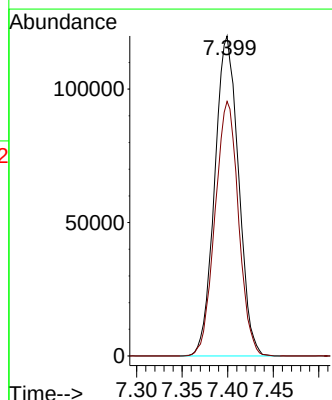
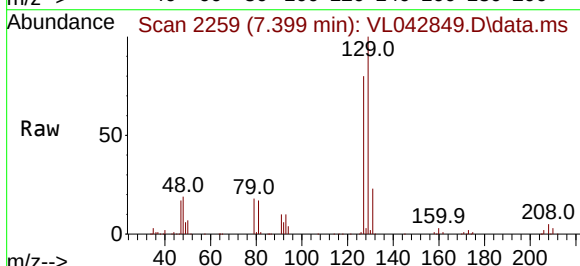
Acq: 13 Aug 2025 12:56

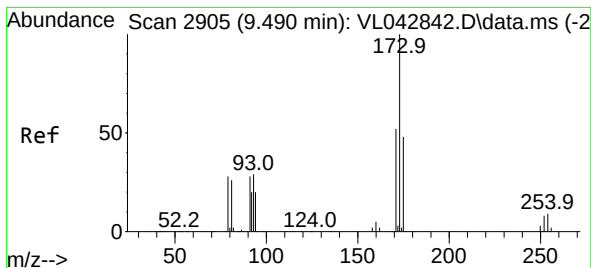
Tgt Ion: 129 Resp: 217970

Ion Ratio Lower Upper

129 100

127 78.5 39.4 118.2





#49

Bromoform

Concen: 9.446 ppbv

RT: 9.493 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081325

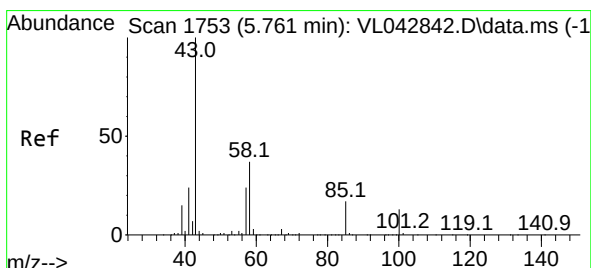
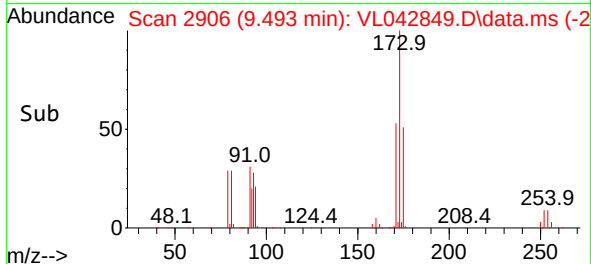
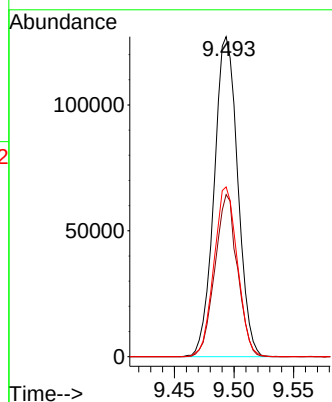
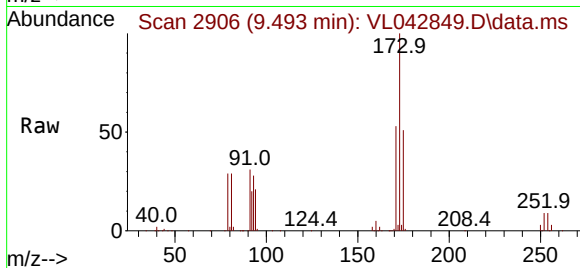
Tgt Ion:173 Resp: 174914

Ion Ratio Lower Upper

173 100

175 48.4 39.2 58.8

171 52.6 41.3 61.9



#50

4-Methyl-2-Pentanone

Concen: 9.430 ppbv

RT: 5.765 min Scan# 1754

Delta R.T. 0.003 min

Lab File: VL042849.D

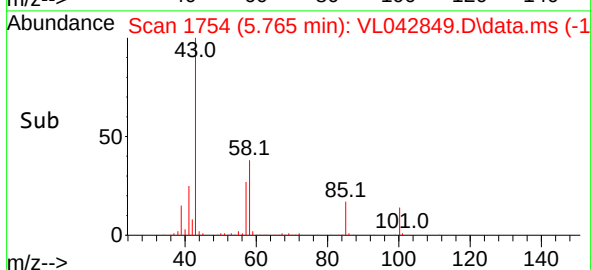
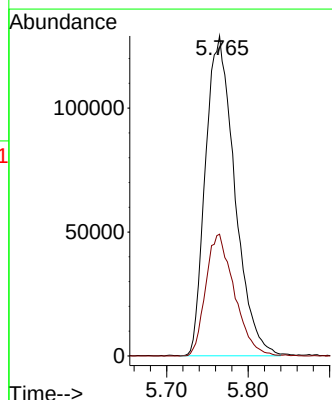
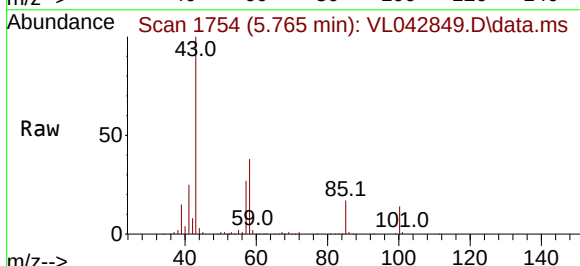
Acq: 13 Aug 2025 12:56

Tgt Ion: 43 Resp: 322264

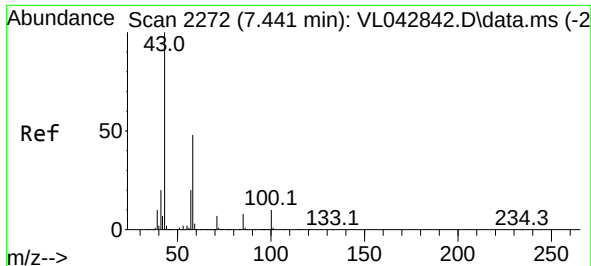
Ion Ratio Lower Upper

43 100

58 37.3 29.8 44.8



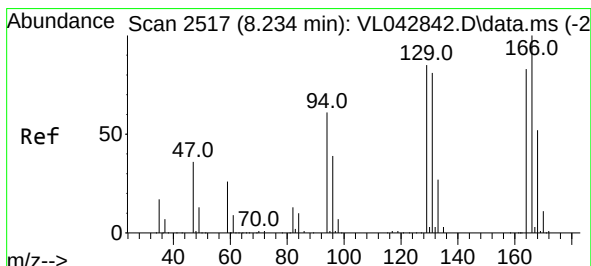
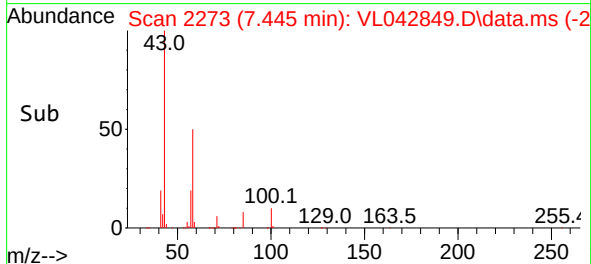
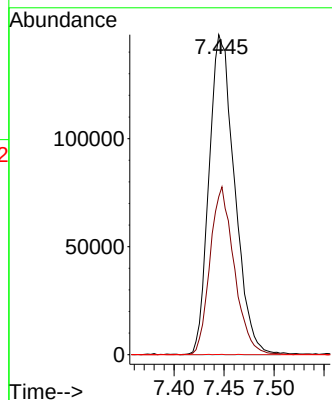
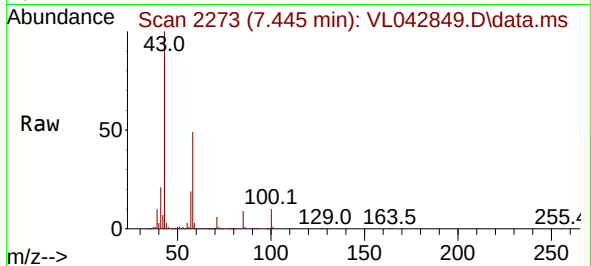




#51  
2-Hexanone  
Concen: 9.791 ppbv  
RT: 7.445 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

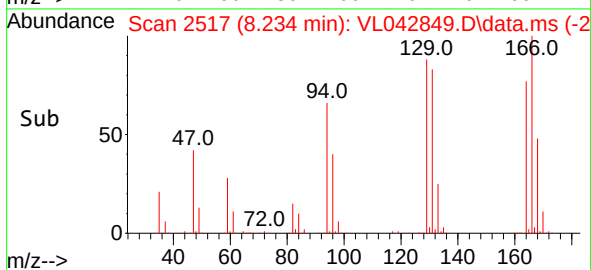
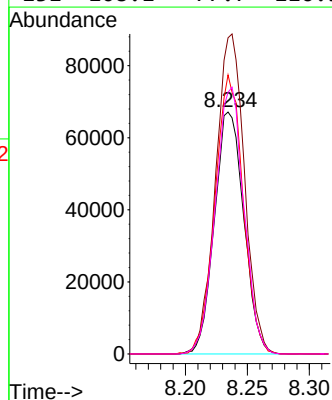
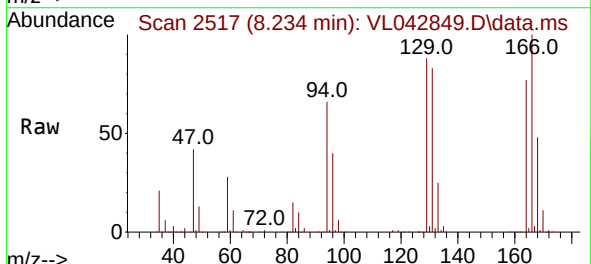
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

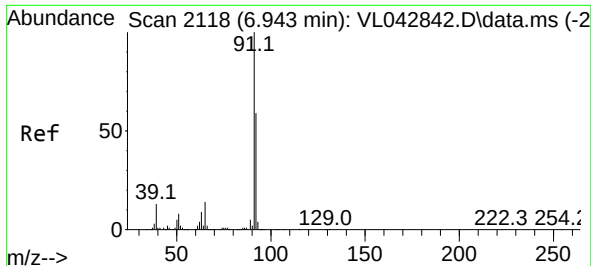
Tgt Ion: 43 Resp: 263321  
Ion Ratio Lower Upper  
43 100  
58 49.9 41.0 61.6  
98 0.1 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 8.544 ppbv  
RT: 8.234 min Scan# 2517  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 164 Resp: 110828  
Ion Ratio Lower Upper  
164 100  
166 130.6 96.5 144.7  
129 115.3 81.8 122.6  
131 108.1 77.7 116.5

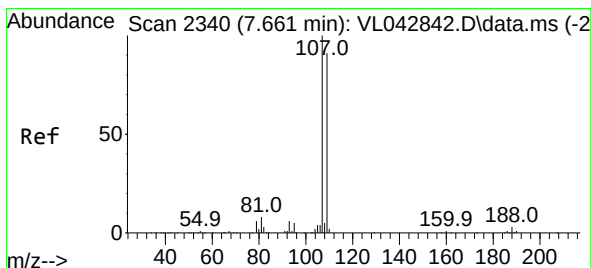
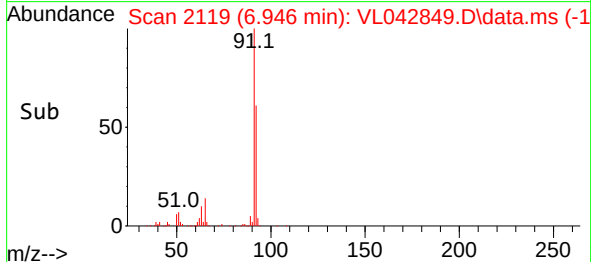
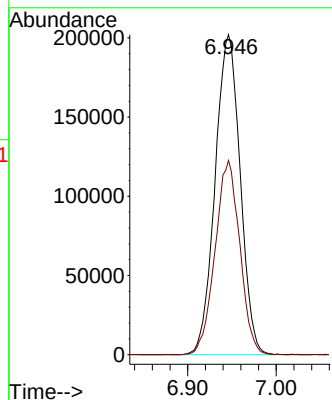
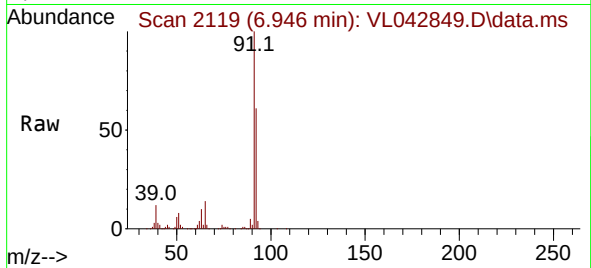




#53  
Toluene  
Concen: 9.340 ppbv  
RT: 6.946 min Scan# 2118  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

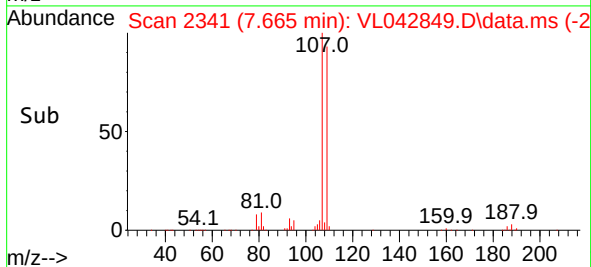
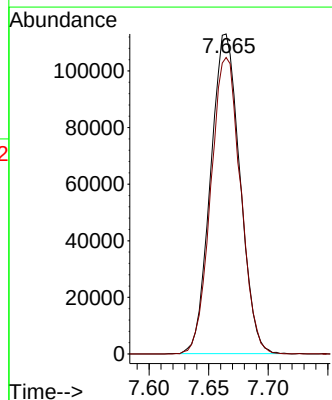
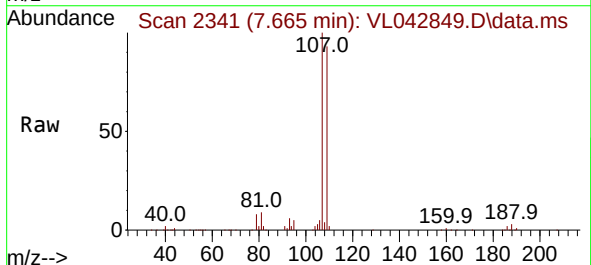
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

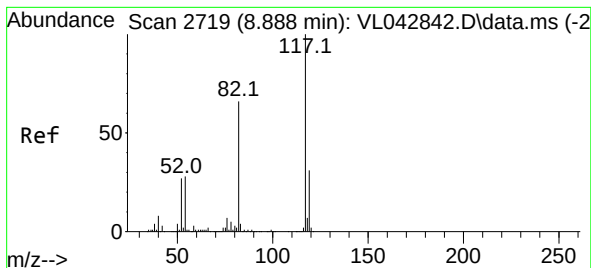
Tgt Ion: 91 Resp: 398138  
Ion Ratio Lower Upper  
91 100  
92 59.7 47.8 71.6



#54  
1,2-Dibromoethane  
Concen: 9.535 ppbv  
RT: 7.665 min Scan# 2341  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 107 Resp: 193340  
Ion Ratio Lower Upper  
107 100  
109 92.7 72.5 108.7





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 8.891 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_1

ClientSampleId :

ICVVL081325

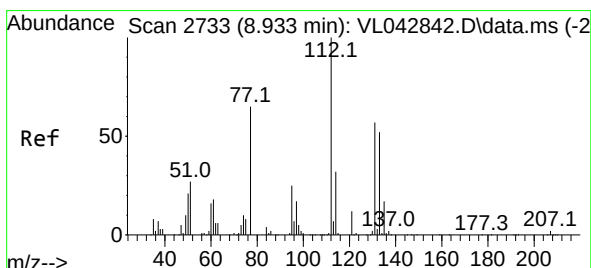
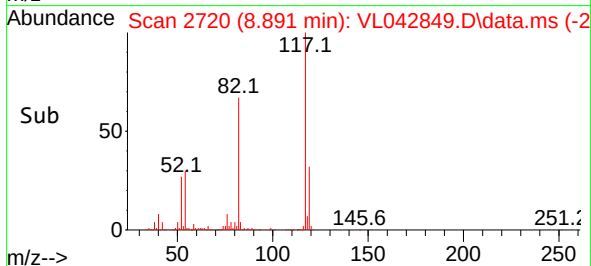
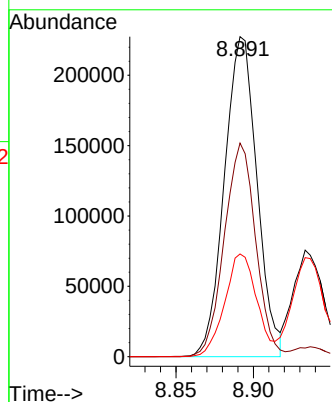
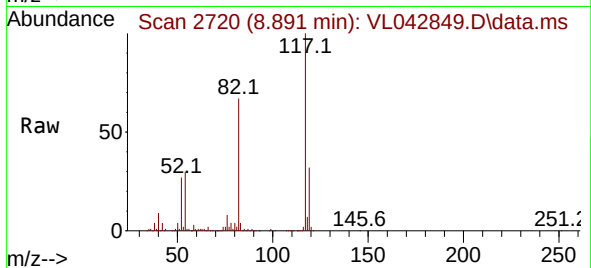
Tgt Ion:117 Resp: 333493

Ion Ratio Lower Upper

117 100

82 67.3 54.6 81.8

119 31.8 25.9 38.9



#56

1,1,1,2-Tetrachloroethane

Concen: 9.291 ppbv

RT: 8.937 min Scan# 2734

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

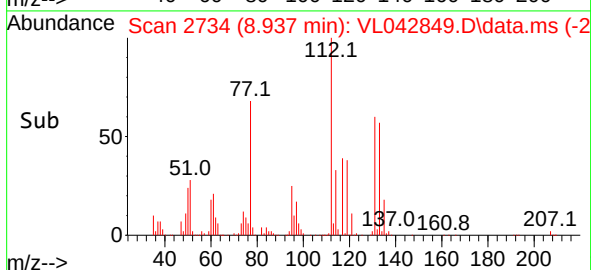
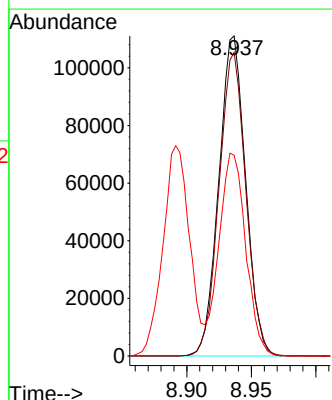
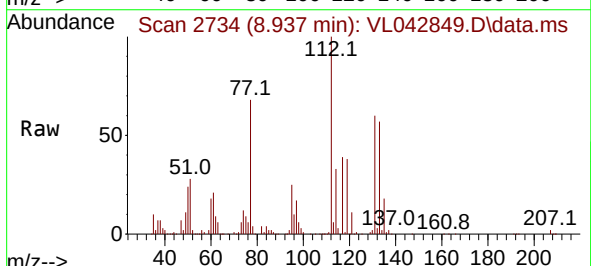
Tgt Ion:131 Resp: 160225

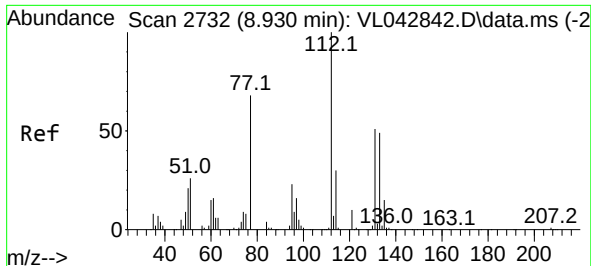
Ion Ratio Lower Upper

131 100

133 94.8 77.4 116.0

119 64.3 51.2 76.8





#57

Chlorobenzene

Concen: 9.378 ppbv

RT: 8.933 min Scan# 21

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_1

ClientSampleId :

ICVVL081325

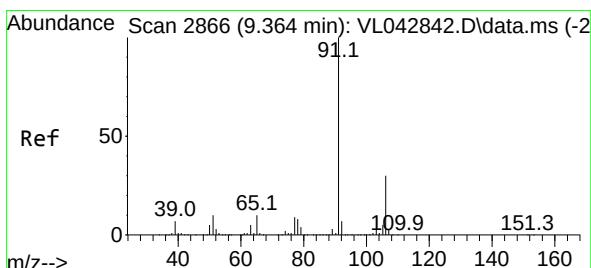
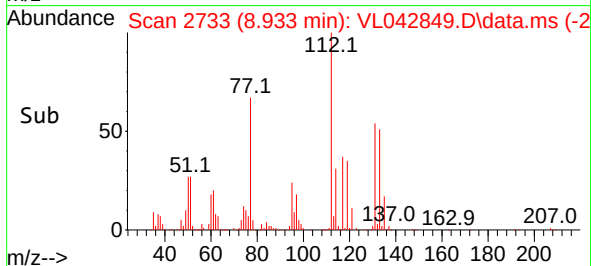
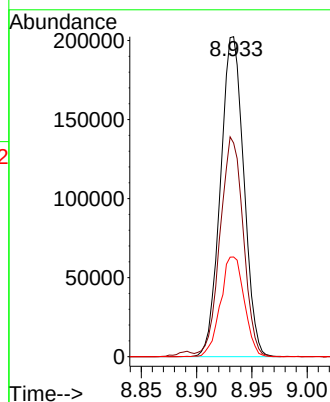
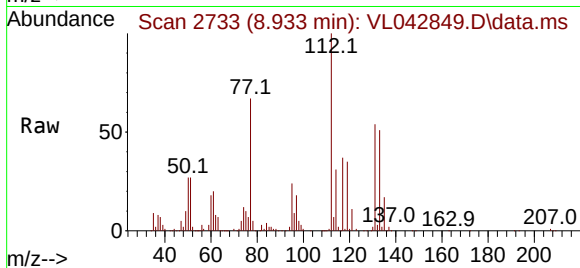
Tgt Ion:112 Resp: 297375

Ion Ratio Lower Upper

112 100

77 66.6 55.5 83.3

114 31.2 27.2 33.2



#58

Ethyl Benzene

Concen: 9.414 ppbv

RT: 9.364 min Scan# 2866

Delta R.T. 0.000 min

Lab File: VL042849.D

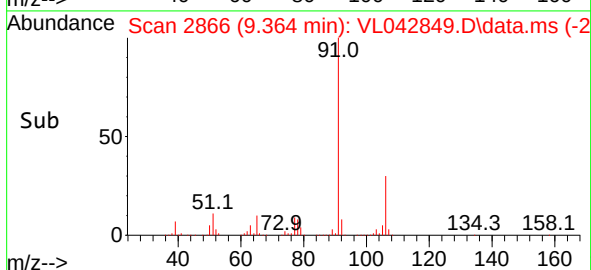
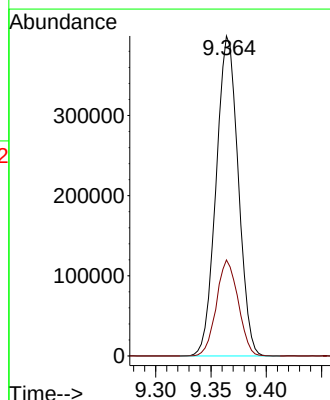
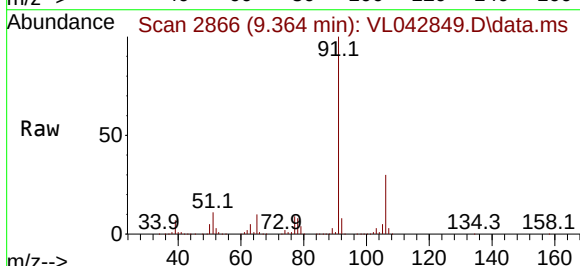
Acq: 13 Aug 2025 12:56

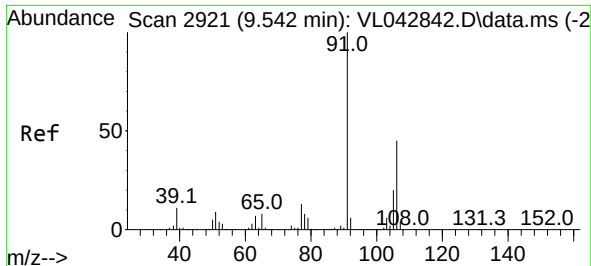
Tgt Ion: 91 Resp: 554015

Ion Ratio Lower Upper

91 100

106 30.0 23.9 35.9





#59

m/p-Xylene

Concen: 10.029 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

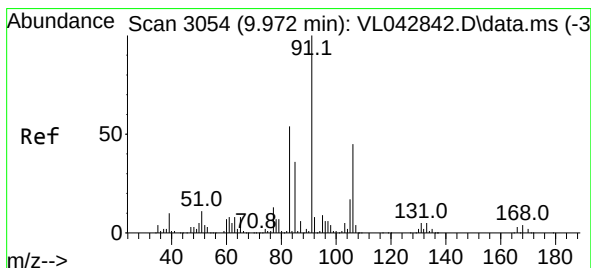
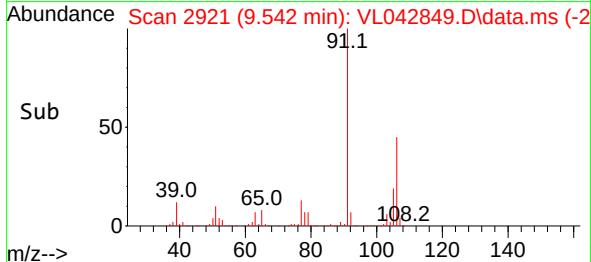
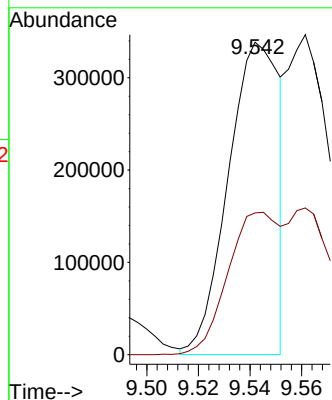
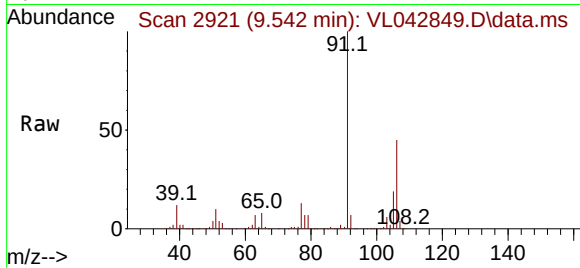
ICVVL081325

Tgt Ion: 91 Resp: 462620

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0



#60

o-Xylene

Concen: 9.239 ppbv

RT: 9.972 min Scan# 3054

Delta R.T. 0.000 min

Lab File: VL042849.D

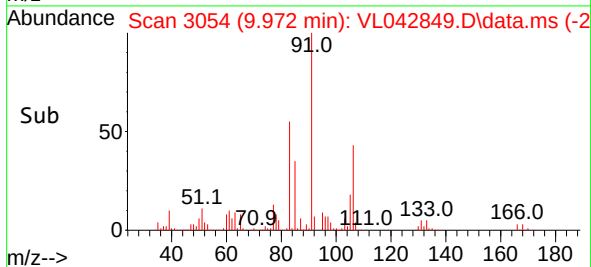
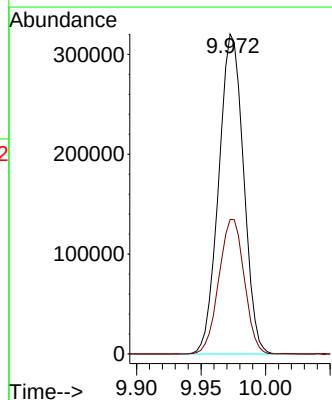
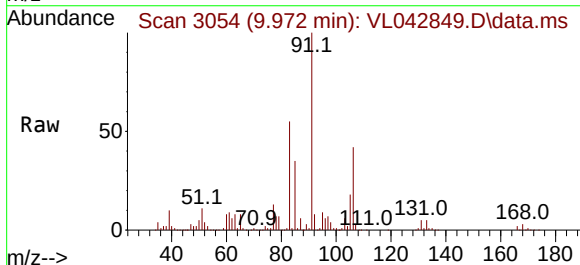
Acq: 13 Aug 2025 12:56

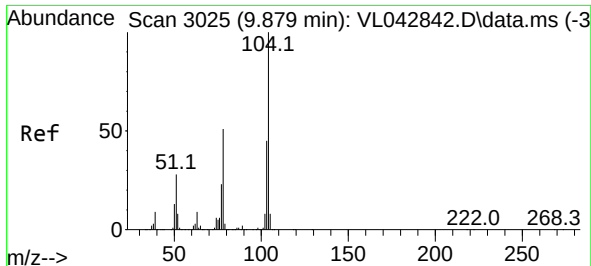
Tgt Ion: 91 Resp: 428721

Ion Ratio Lower Upper

91 100

106 43.0 21.8 65.4

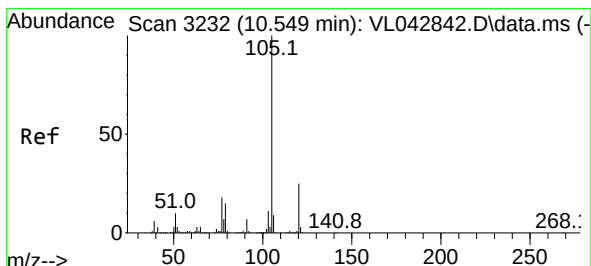
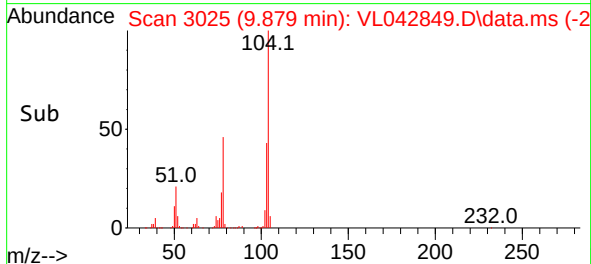
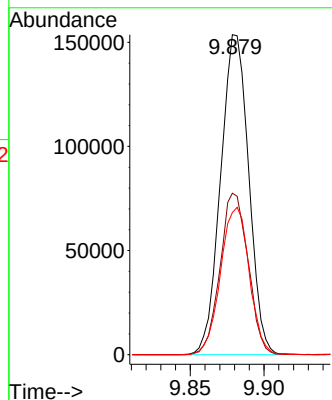
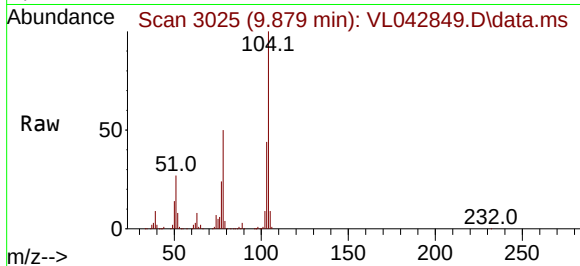




#61  
Styrene  
Concen: 9.377 ppbv  
RT: 9.879 min Scan# 3025  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

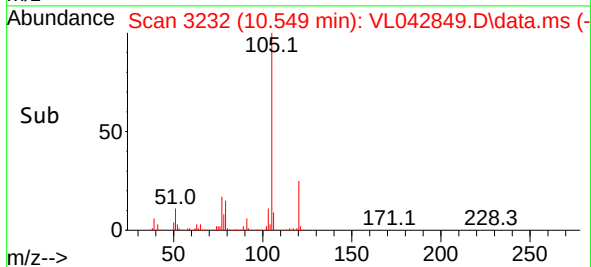
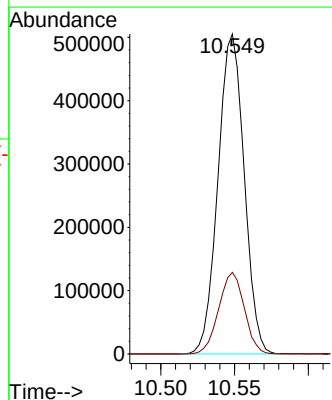
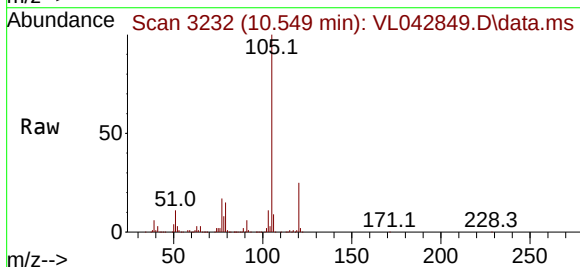
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

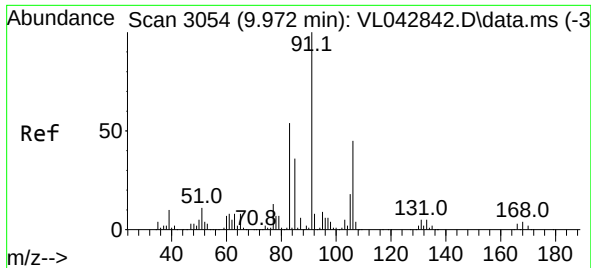
Tgt Ion:104 Resp: 203858  
Ion Ratio Lower Upper  
104 100  
78 50.3 40.6 61.0  
103 47.1 37.7 56.5



#62  
Isopropylbenzene  
Concen: 9.206 ppbv  
RT: 10.549 min Scan# 3232  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 624287  
Ion Ratio Lower Upper  
105 100  
120 24.9 20.6 30.8

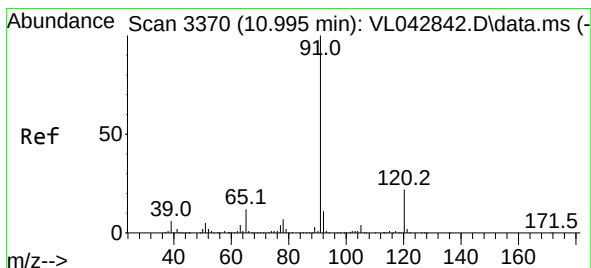
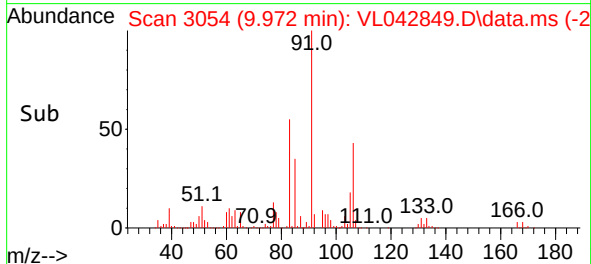
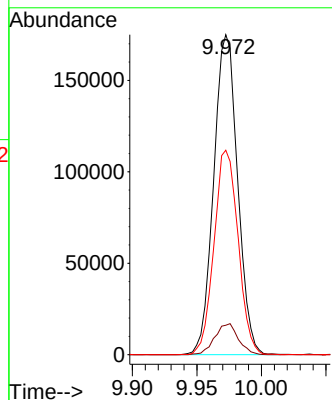
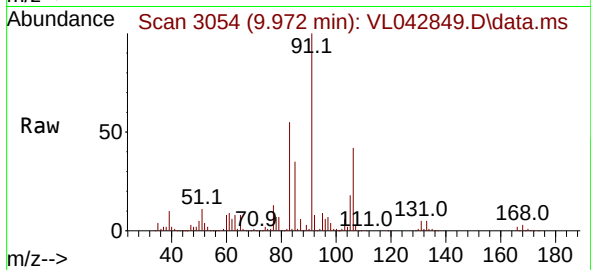




#63  
1,1,2,2-Tetrachloroethane  
Concen: 8.826 ppbv  
RT: 9.972 min Scan# 3054  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

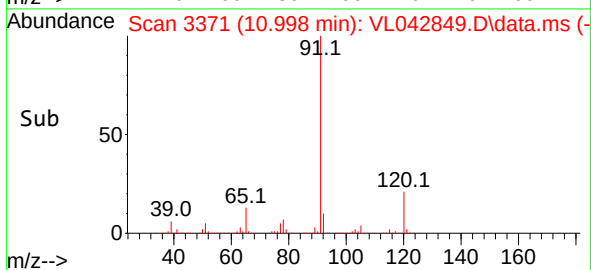
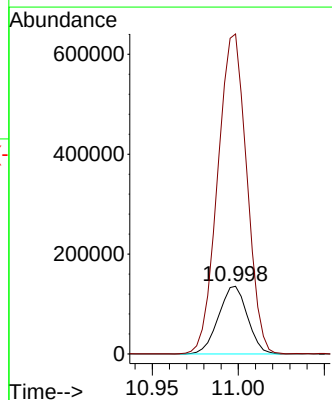
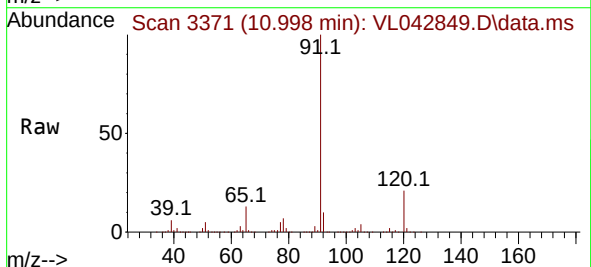
Instrument : MSVOA\_1  
ClientSampleId : ICVVL081325

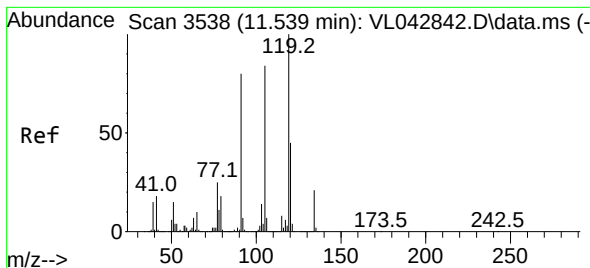
Tgt Ion: 83 Resp: 225237  
Ion Ratio Lower Upper  
83 100  
131 9.5 4.8 14.3  
85 64.4 32.3 96.8



#64  
n-propylbenzene  
Concen: 9.145 ppbv  
RT: 10.998 min Scan# 3371  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 120 Resp: 158234  
Ion Ratio Lower Upper  
120 100  
91 476.9 375.8 563.6





#65

tert-Butylbenzene

Concen: 8.946 ppbv

RT: 11.539 min Scan# 3538

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_1

ClientSampleId :

ICVVL081325

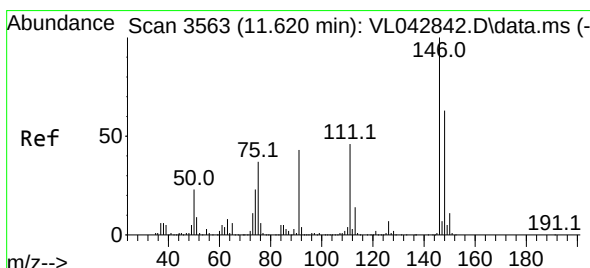
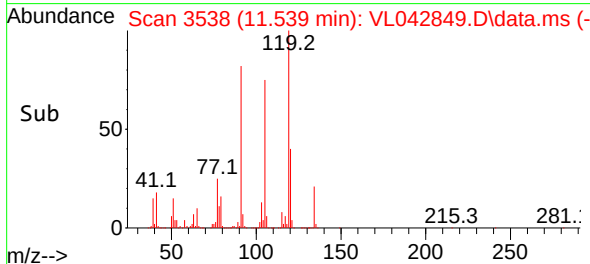
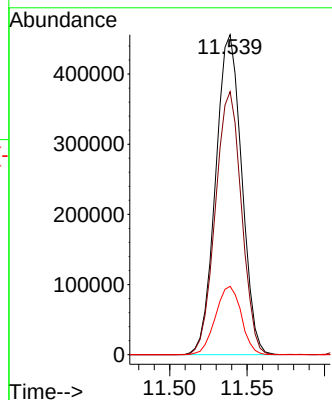
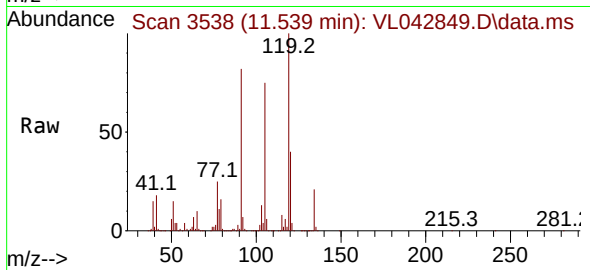
Tgt Ion:119 Resp: 534795

Ion Ratio Lower Upper

119 100

91 82.2 63.9 95.9

134 21.1 17.0 25.4



#66

Benzyl Chloride

Concen: 9.031 ppbv

RT: 11.623 min Scan# 3564

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

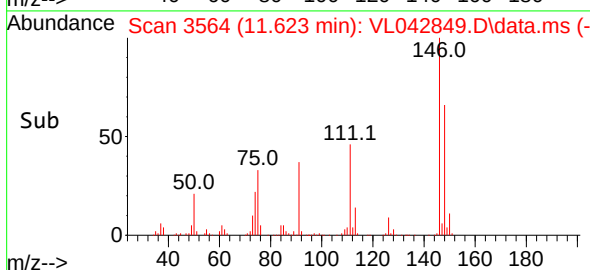
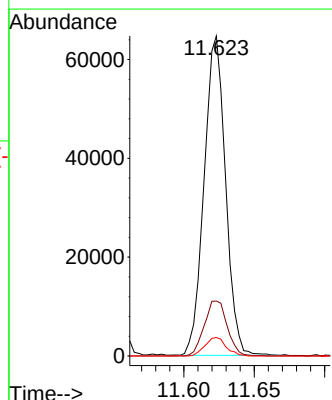
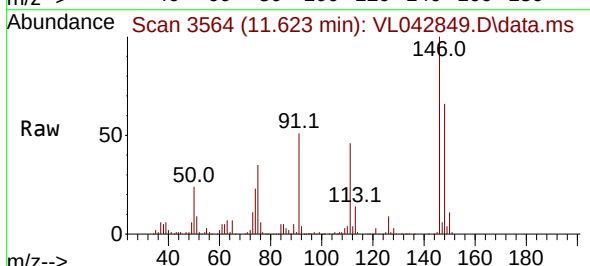
Tgt Ion: 91 Resp: 68533

Ion Ratio Lower Upper

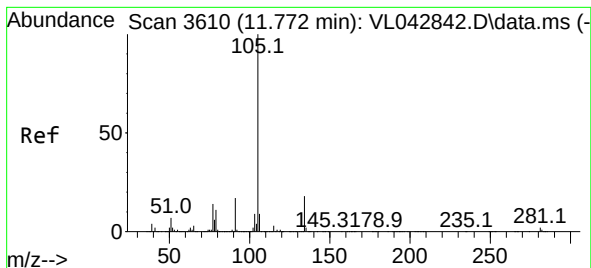
91 100

126 18.4 14.2 21.4

128 5.7 5.0 7.6



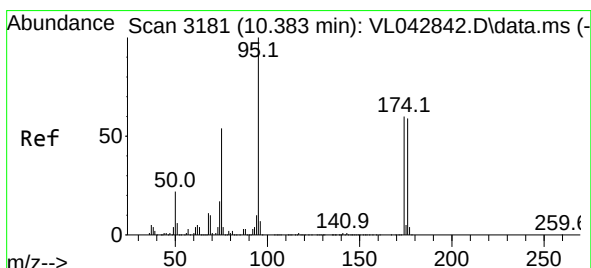
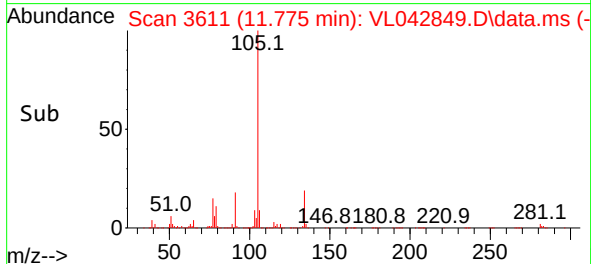
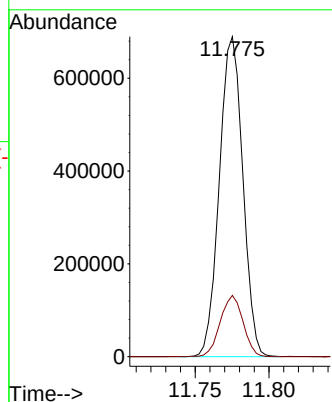
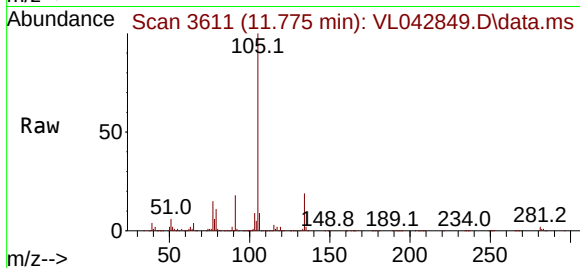




#67  
 sec-Butylbenzene  
 Concen: 9.088 ppbv  
 RT: 11.775 min Scan# 3611  
 Delta R.T. 0.003 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

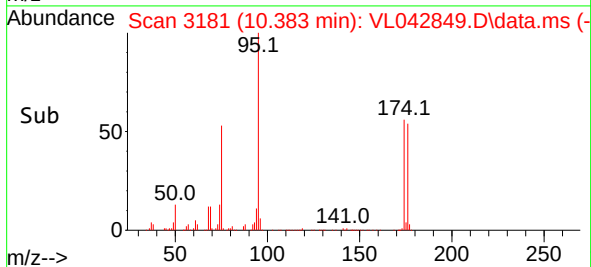
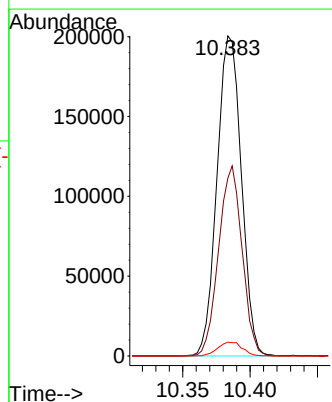
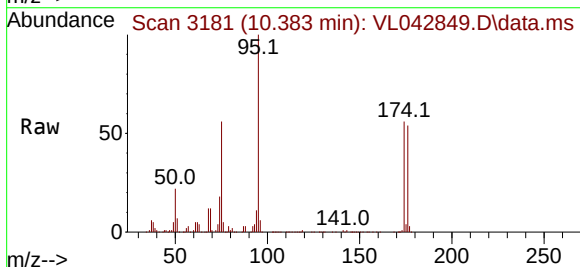
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL081325

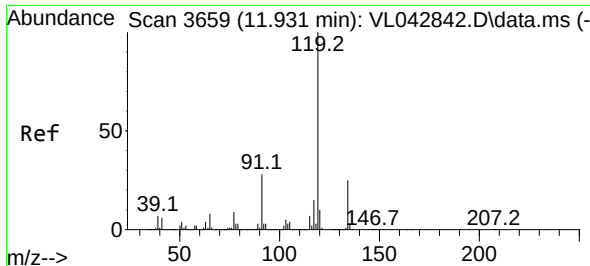
Tgt Ion:105 Resp: 762602  
 Ion Ratio Lower Upper  
 105 100  
 134 18.6 14.9 22.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.086 ppbv  
 RT: 10.383 min Scan# 3181  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

Tgt Ion: 95 Resp: 252268  
 Ion Ratio Lower Upper  
 95 100  
 174 57.2 48.4 72.6  
 175 4.4 3.8 5.8

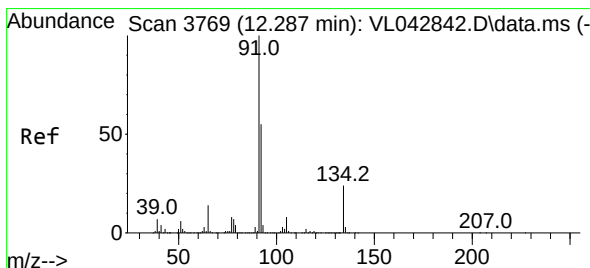
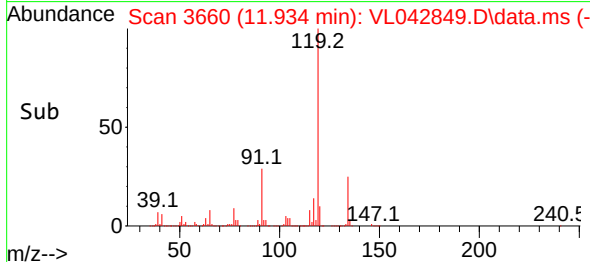
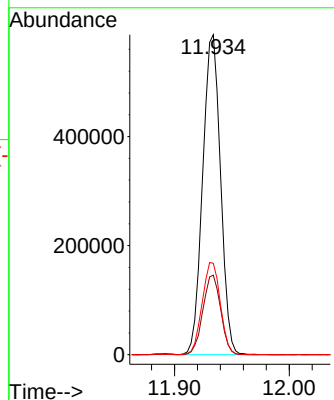
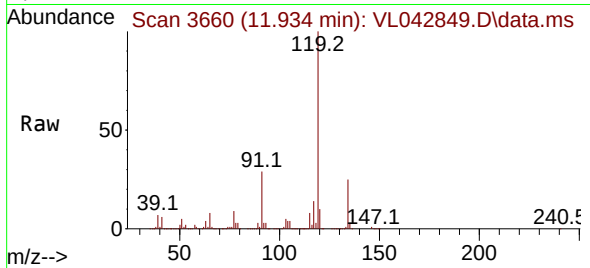




#69  
 p-Isopropyltoluene  
 Concen: 8.810 ppbv  
 RT: 11.934 min Scan# 3660  
 Delta R.T. 0.003 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

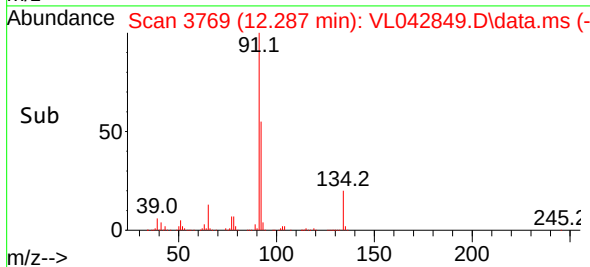
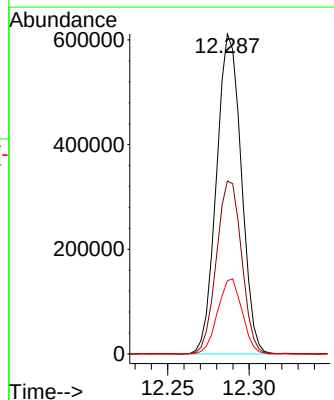
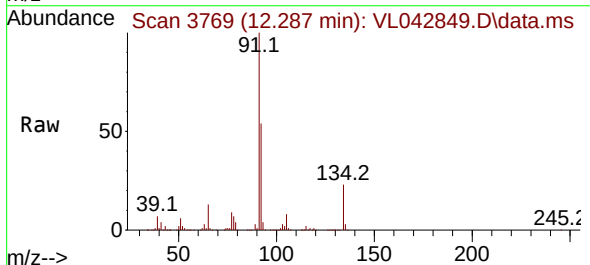
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 ICVVL081325

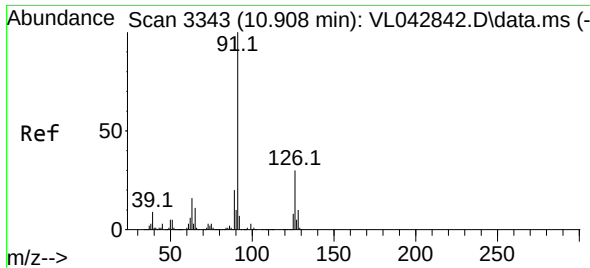
Tgt Ion: 119 Resp: 634670  
 Ion Ratio Lower Upper  
 119 100  
 134 24.9 20.6 30.8  
 91 29.4 22.6 34.0



#70  
 n-Butylbenzene  
 Concen: 9.062 ppbv  
 RT: 12.287 min Scan# 3769  
 Delta R.T. 0.000 min  
 Lab File: VL042849.D  
 Acq: 13 Aug 2025 12:56

Tgt Ion: 91 Resp: 647453  
 Ion Ratio Lower Upper  
 91 100  
 92 54.8 44.6 66.8  
 134 23.1 19.0 28.4

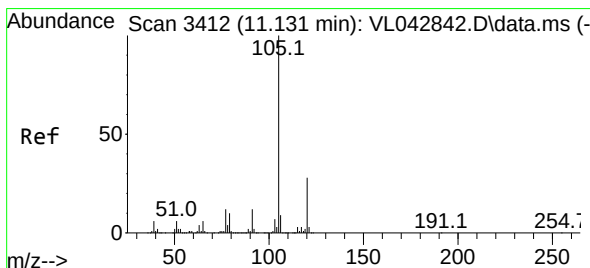
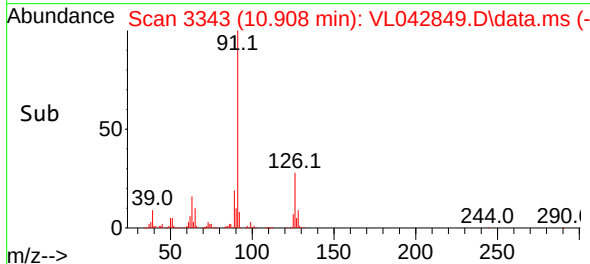
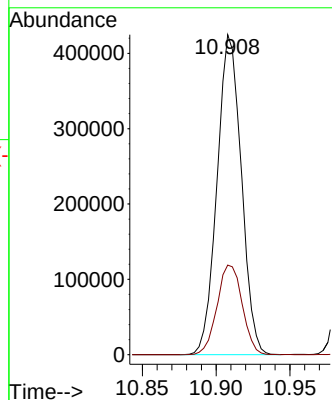
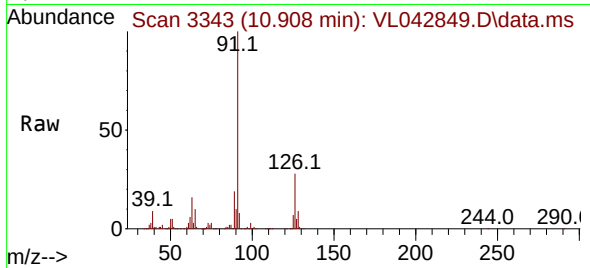




#71  
2-Chlorotoluene  
Concen: 9.214 ppbv  
RT: 10.908 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

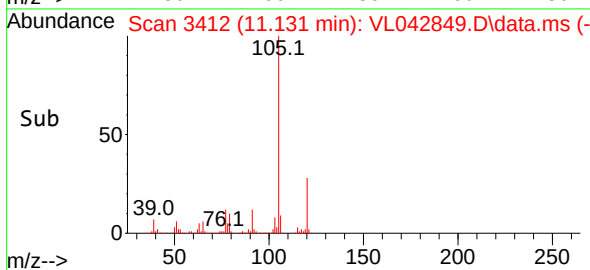
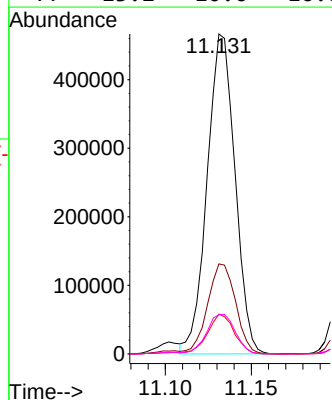
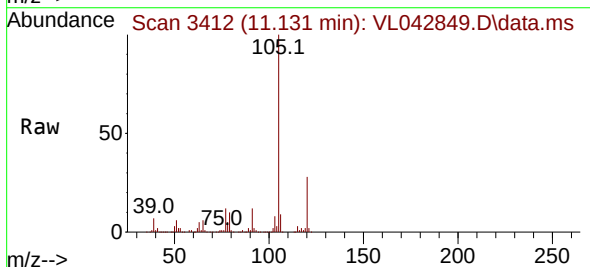
Instrument :  
MSVOA\_L  
ClientSampleId :  
ICVVL081325

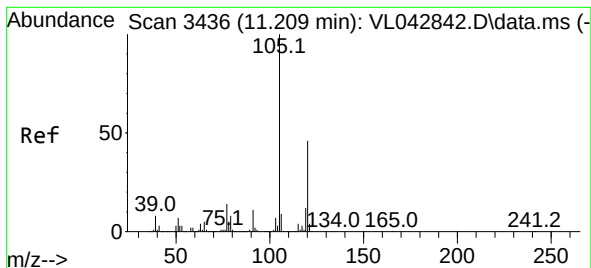
Tgt Ion: 91 Resp: 485171  
Ion Ratio Lower Upper  
91 100  
126 29.1 12.0 47.8



#72  
4-Ethyltoluene  
Concen: 9.338 ppbv  
RT: 11.131 min Scan# 3412  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion: 105 Resp: 525262  
Ion Ratio Lower Upper  
105 100  
120 29.2 23.4 35.2  
91 12.5 9.8 14.6  
77 13.2 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 9.108 ppbv

RT: 11.212 min Scan# 3436

Delta R.T. 0.003 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_1

ClientSampleId :

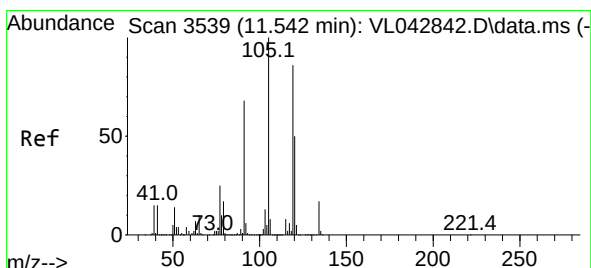
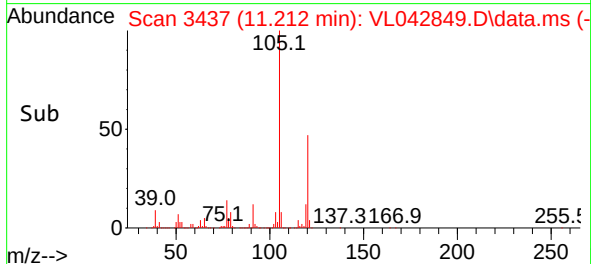
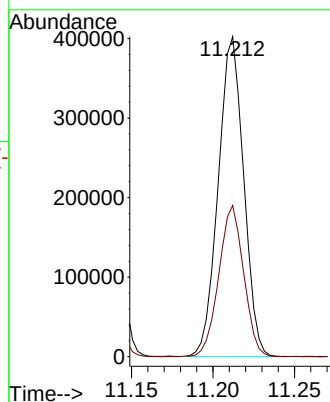
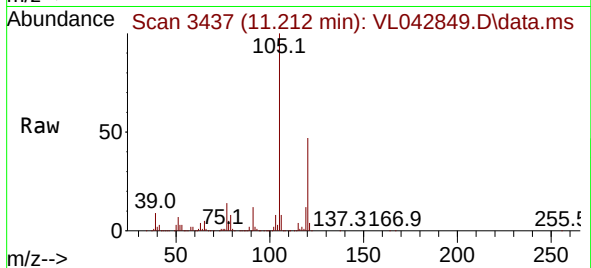
ICVVL081325

Tgt Ion:105 Resp: 435705

Ion Ratio Lower Upper

105 100

120 47.2 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 8.943 ppbv

RT: 11.542 min Scan# 3539

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Tgt Ion:105 Resp: 469573

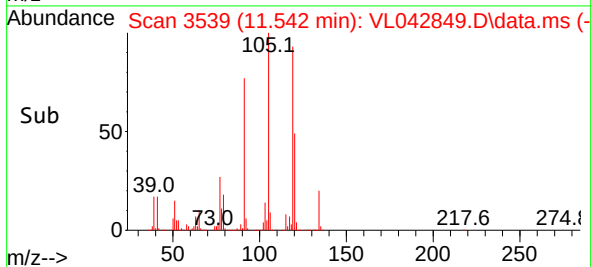
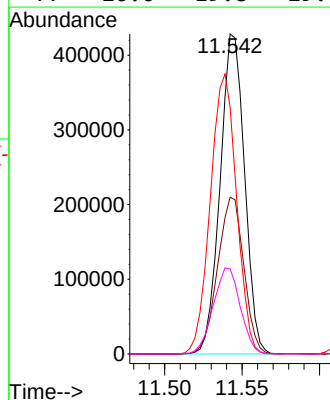
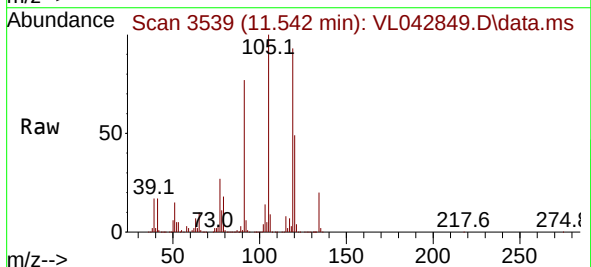
Ion Ratio Lower Upper

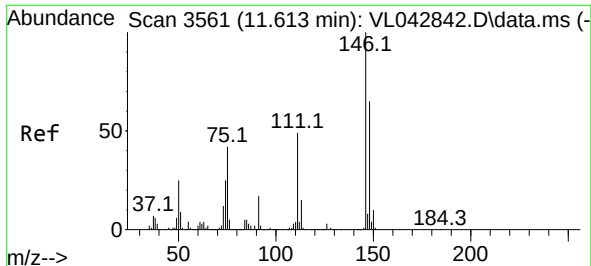
105 100

120 49.0 39.8 59.6

91 77.0 54.2 81.4

77 26.6 19.8 29.6

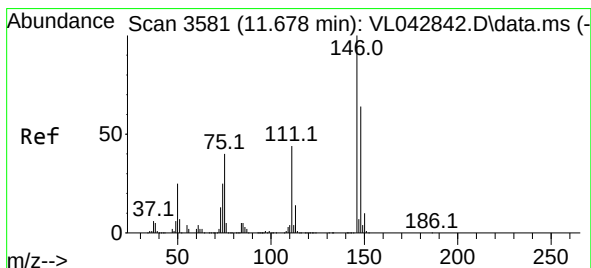
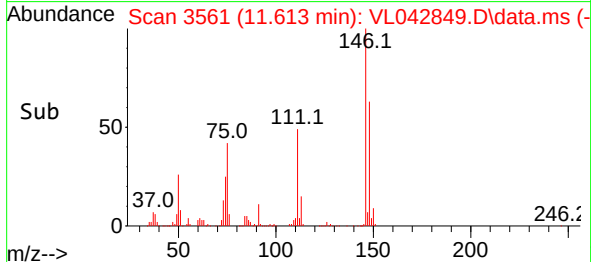
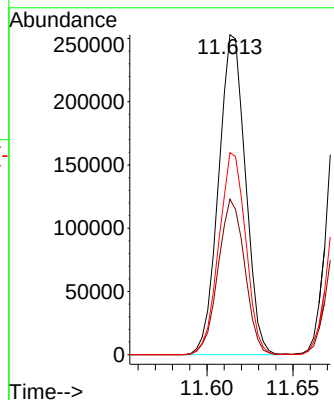
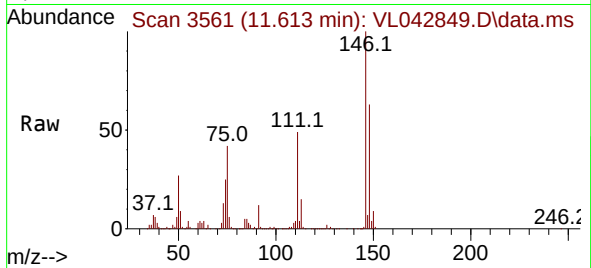




#75  
1,3-Dichlorobenzene  
Concen: 9.209 ppbv  
RT: 11.613 min Scan# 3561  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

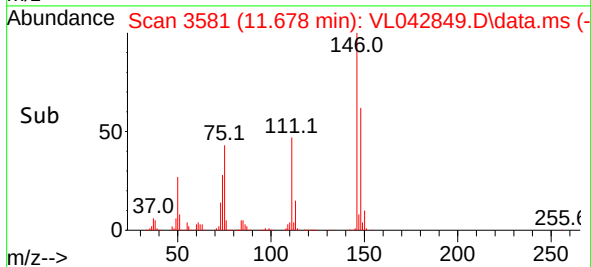
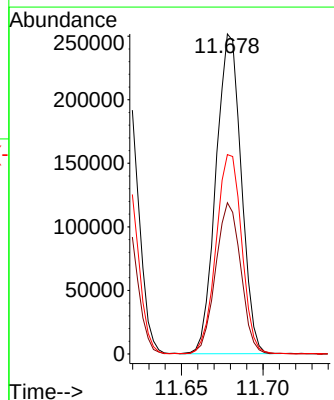
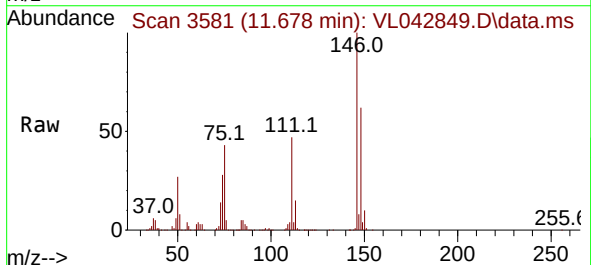
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL081325

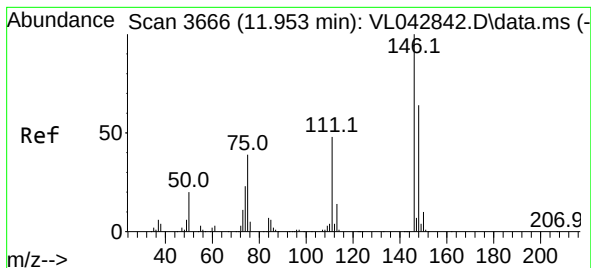
Tgt Ion:146 Resp: 274876  
Ion Ratio Lower Upper  
146 100  
111 48.2 23.9 71.7  
148 63.0 31.4 94.0



#76  
1,4-Dichlorobenzene  
Concen: 8.976 ppbv  
RT: 11.678 min Scan# 3581  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion:146 Resp: 270976  
Ion Ratio Lower Upper  
146 100  
111 47.2 22.7 68.1  
148 63.6 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 8.736 ppbv

RT: 11.953 min Scan# 3

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081325

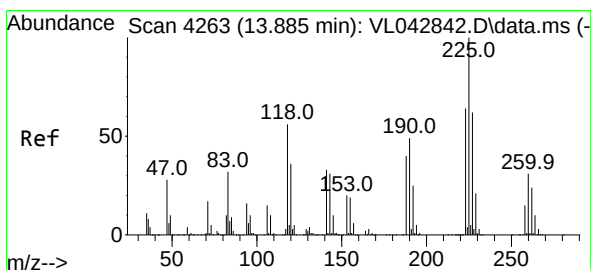
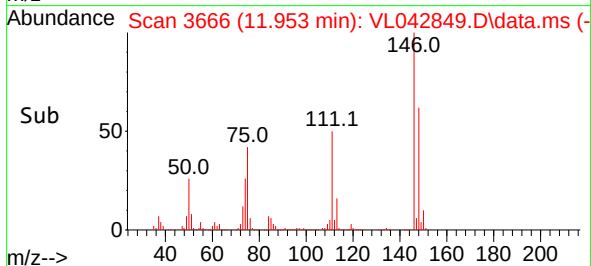
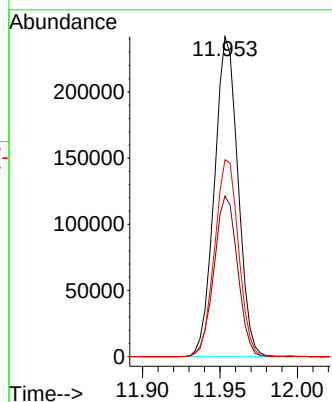
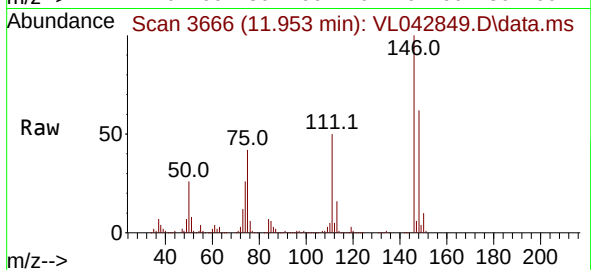
Tgt Ion:146 Resp: 255347

Ion Ratio Lower Upper

146 100

111 50.5 24.6 74.0

148 62.7 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 7.778 ppbv

RT: 13.886 min Scan# 4263

Delta R.T. 0.000 min

Lab File: VL042849.D

Acq: 13 Aug 2025 12:56

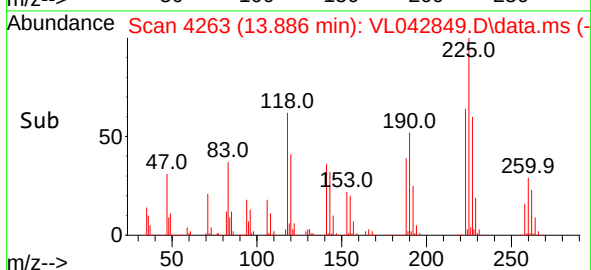
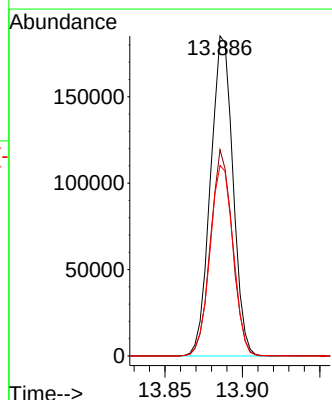
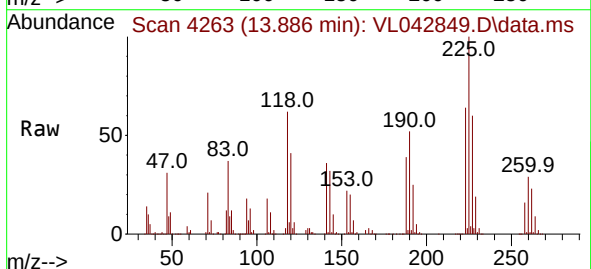
Tgt Ion:225 Resp: 186318

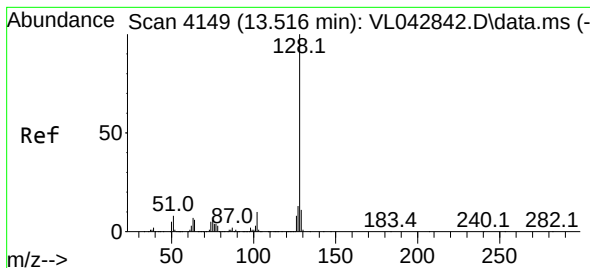
Ion Ratio Lower Upper

225 100

223 62.9 51.4 77.2

227 61.6 51.9 77.9

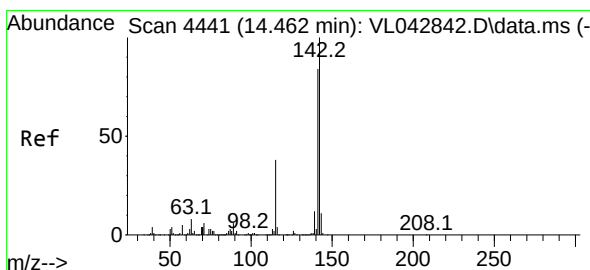
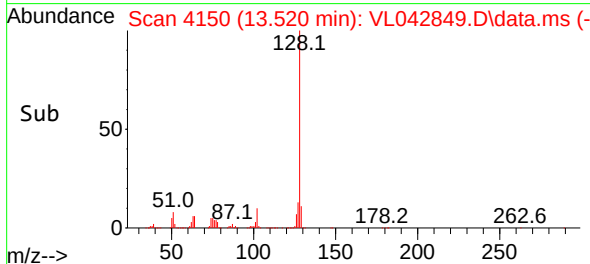
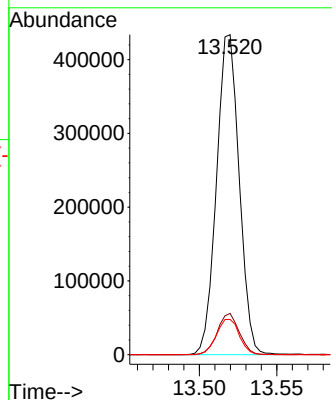
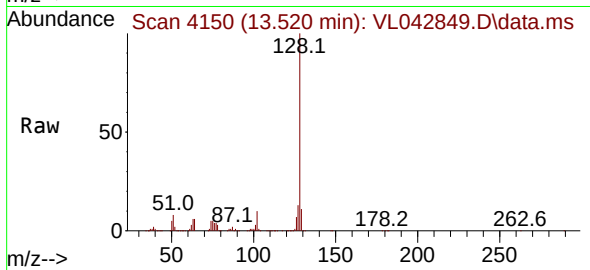




#79  
Naphthalene  
Concen: 9.284 ppbv  
RT: 13.520 min Scan# 4149  
Delta R.T. 0.003 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

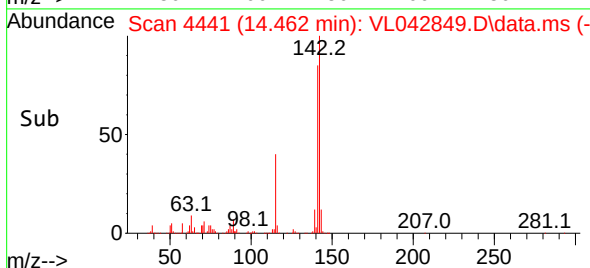
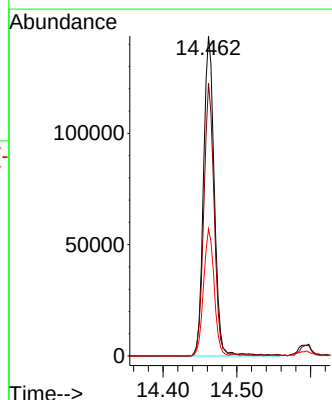
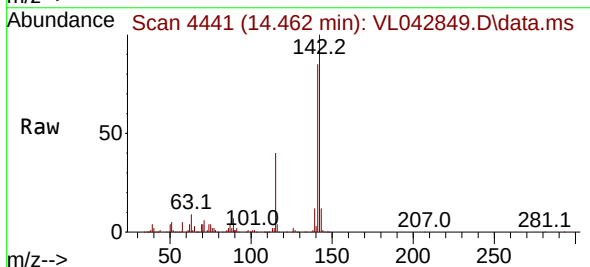
Instrument :  
MSVOA\_1  
ClientSampleId :  
ICVVL081325

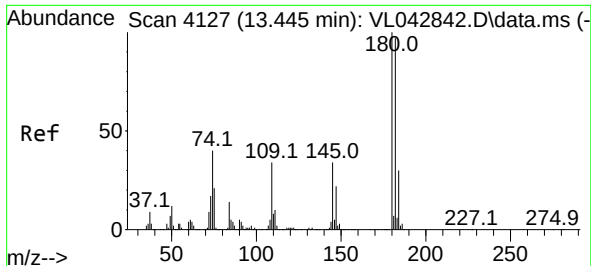
Tgt Ion:128 Resp: 441940  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.6 16.0  
129 11.0 8.9 13.3



#80  
Naphthalene,2-methyl-  
Concen: 8.188 ppbv  
RT: 14.462 min Scan# 4441  
Delta R.T. 0.000 min  
Lab File: VL042849.D  
Acq: 13 Aug 2025 12:56

Tgt Ion:142 Resp: 145644  
Ion Ratio Lower Upper  
142 100  
141 81.9 67.0 100.6  
115 40.2 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 9.016 ppbv

RT: 13.445 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042849.D

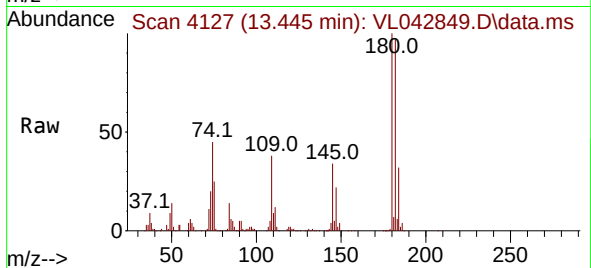
Acq: 13 Aug 2025 12:56

Instrument :

MSVOA\_L

ClientSampleId :

ICVVL081325



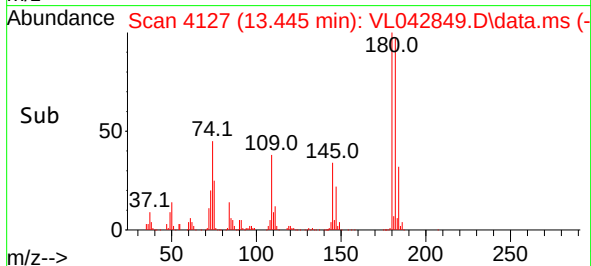
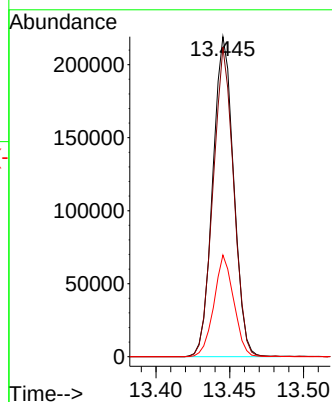
Tgt Ion:180 Resp: 215715

Ion Ratio Lower Upper

180 100

182 95.4 76.9 115.3

184 30.1 24.5 36.7





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042900.D  
 Acq On : 08 Sep 2025 11:05  
 Operator : SY/MD  
 Sample : VSTDC0010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDC0010

Quant Time: Sep 09 00:52:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 09 00:52:26 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|-------|----------|
| -----                         |        |       |          |          |       |          |
| Internal Standards            |        |       |          |          |       |          |
| 1) Bromochloromethane         | 2.777  | 49    | 126678   | 10.000   | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene       | 3.943  | 114   | 333606   | 10.000   | ppbv  | 0.00     |
| 55) Chlorobenzene-d5          | 8.869  | 117   | 282770   | 10.000   | ppbv  | 0.00     |
| System Monitoring Compounds   |        |       |          |          |       |          |
| 68) 1-Bromo-4-Fluorobenzene   | 10.364 | 95    | 222314   | 10.483   | ppbv  | 0.00     |
| Spiked Amount                 | 10.000 | Range | 65 - 135 | Recovery | =     | 104.800% |
| Target Compounds              |        |       |          |          |       |          |
|                               |        |       |          |          |       | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.492  | 85    | 195136   | 10.511   | ppbv  | 100      |
| 3) Chlorodifluoromethane      | 1.470  | 51    | 223887   | 10.910   | ppbv  | 98       |
| 4) Chloromethane              | 1.528  | 50    | 74830    | 9.988    | ppbv  | 99       |
| 5) Vinyl Chloride             | 1.577  | 62    | 70899    | 9.609    | ppbv  | 99       |
| 6) Bromomethane               | 1.664  | 94    | 28498    | 9.659    | ppbv  | 99       |
| 7) Chloroethane               | 1.700  | 64    | 28496    | 9.889    | ppbv  | 89       |
| 8) Dichlorotetrafluoroethane  | 1.551  | 85    | 158303   | 10.420   | ppbv  | 96       |
| 9) Propene                    | 1.476  | 41    | 88702    | 10.009   | ppbv  | 99       |
| 10) Heptane                   | 4.959  | 43    | 234952   | 9.898    | ppbv  | 98       |
| 11) Trichlorofluoromethane    | 1.871  | 101   | 188309   | 10.280   | ppbv  | 98       |
| 12) 1,1,2-Trichlorotrifluo... | 2.133  | 101   | 147287   | 10.089   | ppbv  | 96       |
| 13) Ethanol                   | 1.716  | 45    | 6525     | 8.052    | ppbv  | 98       |
| 14) Bromoethene               | 1.777  | 108   | 53755    | 10.171   | ppbv  | 99       |
| 15) Acetone                   | 1.829  | 43    | 145289   | 8.670    | ppbv  | 98       |
| 16) 1,3-Butadiene             | 1.602  | 39    | 70713    | 9.308    | ppbv  | 100      |
| 17) tert-Butyl alcohol        | 2.033  | 59    | 170394   | 8.574    | ppbv  | 99       |
| 18) 1,1-Dichloroethene        | 2.026  | 96    | 63544    | 9.900    | ppbv  | 94       |
| 19) Isopropyl Alcohol         | 1.881  | 45    | 89009    | 8.893    | ppbv  | 95       |
| 20) Methylene Chloride        | 2.056  | 84    | 57698    | 8.219    | ppbv  | 93       |
| 21) Allyl Chloride            | 2.088  | 41    | 114332   | 9.658    | ppbv  | 94       |
| 22) trans-1,2-Dichloroethene  | 2.331  | 96    | 74045    | 9.971    | ppbv  | 93       |
| 23) Vinyl Acetate             | 2.454  | 43    | 228268   | 9.907    | ppbv  | # 97     |
| 24) 1,1-Dichloroethane        | 2.402  | 63    | 152618   | 10.291   | ppbv  | 99       |
| 25) Ethyl Acetate             | 2.826  | 43    | 415386   | 10.242   | ppbv  | 99       |
| 26) Hexane                    | 2.816  | 57    | 187779   | 10.031   | ppbv  | 95       |
| 27) Carbon Disulfide          | 2.143  | 76    | 193262   | 10.608   | ppbv  | 98       |
| 28) Methyl tert-Butyl Ether   | 2.431  | 73    | 85774    | 8.986    | ppbv  | 93       |
| 29) Chloroform                | 2.839  | 83    | 281659   | 10.538   | ppbv  | 98       |
| 30) Cyclohexane               | 3.842  | 84    | 153066   | 9.326    | ppbv  | 96       |
| 31) cis-1,2-Dichloroethene    | 2.713  | 61    | 182592   | 9.765    | ppbv  | 99       |
| 32) 1,1,1-Trichloroethane     | 3.357  | 97    | 271429   | 9.609    | ppbv  | 96       |
| 34) 2-Butanone                | 2.548  | 43    | 272735   | 12.107   | ppbv  | 98       |
| 35) Carbon Tetrachloride      | 3.748  | 117   | 269097   | 11.700   | ppbv  | 99       |
| 36) Benzene                   | 3.645  | 78    | 366027   | 11.458   | ppbv  | 97       |
| 37) 1,2-Dichloroethane        | 3.208  | 62    | 211728   | 12.686   | ppbv  | 98       |
| 38) Trichloroethene           | 4.532  | 130   | 151915   | 10.413   | ppbv  | 95       |
| 39) 1,2-Dichloropropane       | 4.299  | 63    | 139657   | 11.970   | ppbv  | 96       |
| 40) 1,4-Dioxane               | 4.561  | 88    | 56013    | 10.096   | ppbv  | # 88     |
| 41) Tetrahydrofuran           | 3.043  | 42    | 148990   | 11.863   | ppbv  | 96       |
| 42) Bromodichloromethane      | 4.473  | 83    | 301814   | 12.136   | ppbv  | 98       |
| 43) Methyl Methacrylate       | 4.859  | 69    | 141813   | 10.776   | ppbv  | 95       |
| 44) 2,2,4-Trimethylpentane    | 4.622  | 57    | 631245   | 11.642   | ppbv  | 99       |
| 45) t-1,3-Dichloropropene     | 6.393  | 75    | 154622   | 10.411   | ppbv  | 98       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042900.D  
 Acq On : 08 Sep 2025 11:05  
 Operator : SY/MD  
 Sample : VSTDCCC010  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

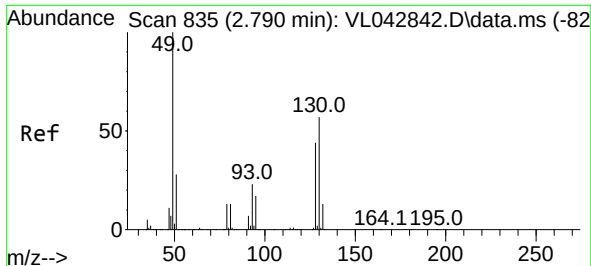
Quant Time: Sep 09 00:52:45 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 09 00:52:26 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.580  | 75   | 200797   | 10.851 | ppbv   | 98       |
| 47) 1,1,2-Trichloroethane     | 6.561  | 97   | 144209   | 11.666 | ppbv   | 98       |
| 48) Dibromochloromethane      | 7.370  | 129  | 228649   | 11.430 | ppbv   | 100      |
| 49) Bromoform                 | 9.471  | 173  | 184068   | 11.158 | ppbv   | 98       |
| 50) 4-Methyl-2-Pentanone      | 5.729  | 43   | 359329   | 11.801 | ppbv   | 96       |
| 51) 2-Hexanone                | 7.419  | 43   | 284454   | 11.872 | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.212  | 164  | 110334   | 9.547  | ppbv   | 98       |
| 53) Toluene                   | 6.914  | 91   | 402080   | 10.587 | ppbv   | 100      |
| 54) 1,2-Dibromoethane         | 7.636  | 107  | 204276   | 11.307 | ppbv   | 98       |
| 56) 1,1,1,2-Tetrachloroethane | 8.914  | 131  | 170319   | 11.648 | ppbv   | 99       |
| 57) Chlorobenzene             | 8.911  | 112  | 311373   | 11.581 | ppbv   | 97       |
| 58) Ethyl Benzene             | 9.345  | 91   | 558102   | 11.184 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.539  | 91   | 468620   | 11.981 | ppbv # | 100      |
| 60) o-Xylene                  | 9.953  | 91   | 460968   | 11.716 | ppbv   | 100      |
| 61) Styrene                   | 9.859  | 104  | 195007   | 10.579 | ppbv   | 99       |
| 62) Isopropylbenzene          | 10.529 | 105  | 655164   | 11.394 | ppbv   | 98       |
| 63) 1,1,2,2-Tetrachloroethane | 9.953  | 83   | 266435   | 12.314 | ppbv   | 100      |
| 64) n-propylbenzene           | 10.979 | 120  | 164610   | 11.220 | ppbv   | 90       |
| 65) tert-Butylbenzene         | 11.523 | 119  | 561409   | 11.075 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.607 | 91   | 50803    | 7.895  | ppbv # | 98       |
| 67) sec-Butylbenzene          | 11.759 | 105  | 833114   | 11.709 | ppbv   | 98       |
| 69) p-Isopropyltoluene        | 11.918 | 119  | 667558   | 10.929 | ppbv   | 99       |
| 70) n-Butylbenzene            | 12.274 | 91   | 711012   | 11.736 | ppbv   | 98       |
| 71) 2-Chlorotoluene           | 10.892 | 91   | 498072   | 11.156 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.118 | 105  | 554411   | 11.624 | ppbv   | 98       |
| 73) 1,3,5-Trimethylbenzene    | 11.196 | 105  | 450409   | 11.105 | ppbv   | 98       |
| 74) 1,2,4-Trimethylbenzene    | 11.529 | 105  | 508605   | 11.424 | ppbv   | 95       |
| 75) 1,3-Dichlorobenzene       | 11.597 | 146  | 289650   | 11.445 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.662 | 146  | 287352   | 11.226 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.940 | 146  | 281307   | 11.351 | ppbv   | 99       |
| 78) Hexachloro-1,3-Butadiene  | 13.873 | 225  | 167893   | 8.266  | ppbv   | 99       |
| 79) Naphthalene               | 13.504 | 128  | 428355   | 10.613 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.449 | 142  | 127751   | 8.470  | ppbv   | 96       |
| 81) 1,2,4-Trichlorobenzene    | 13.432 | 180  | 207455   | 10.226 | ppbv   | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VSTDCCC010

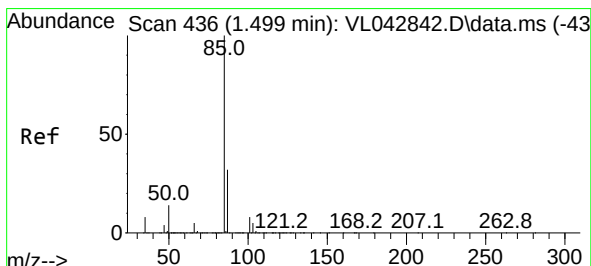
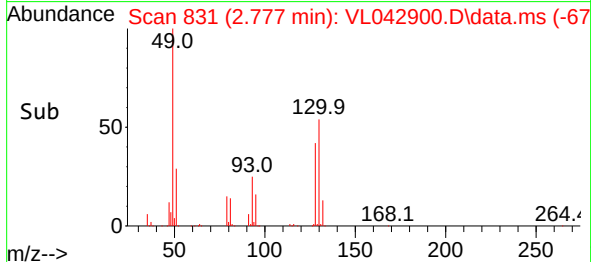
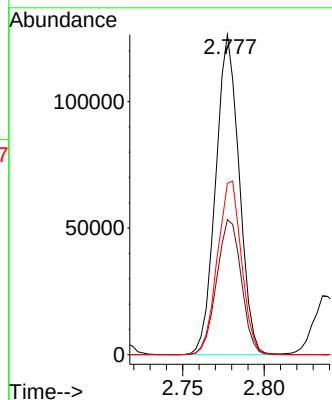
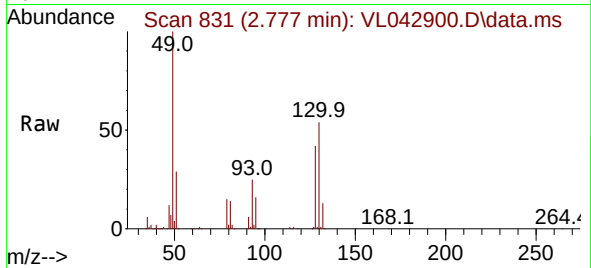
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#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.777 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

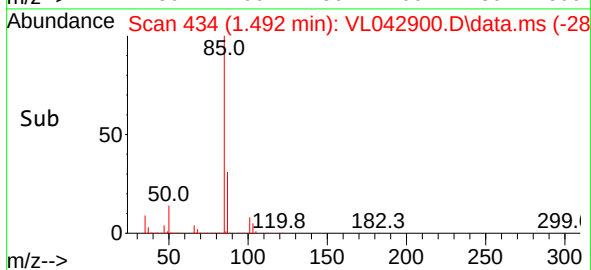
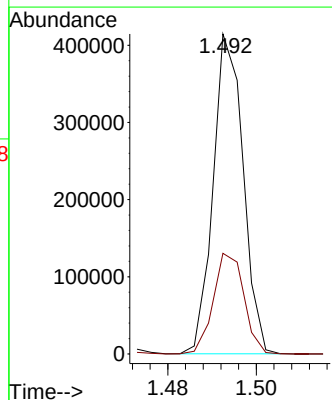
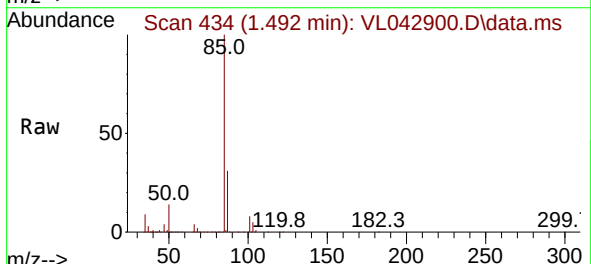
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 MSVOA\_1  
 ClientSampleId :  
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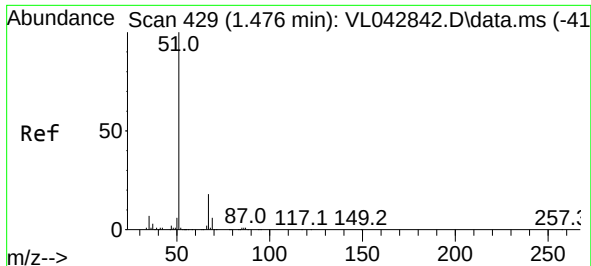
Tgt Ion: 49 Resp: 126678  
 Ion Ratio Lower Upper  
 49 100  
 128 44.1 23.7 71.1  
 130 55.7 30.6 91.6



#2  
 Dichlorodifluoromethane  
 Concen: 10.511 ppbv  
 RT: 1.492 min Scan# 434  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Tgt Ion: 85 Resp: 195136  
 Ion Ratio Lower Upper  
 85 100  
 87 31.4 25.3 37.9

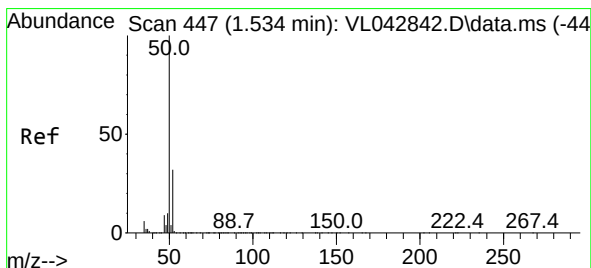
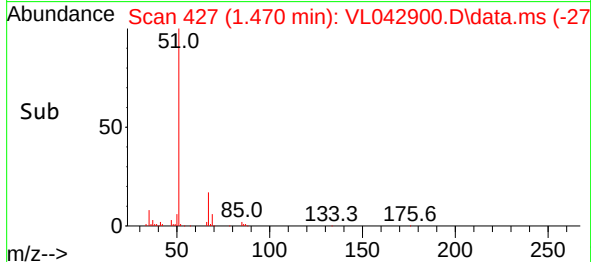
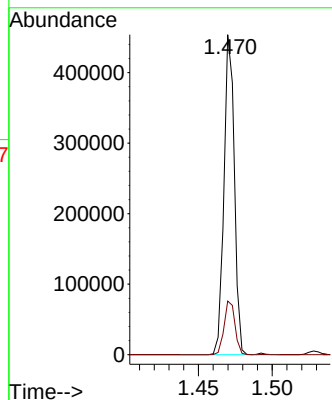
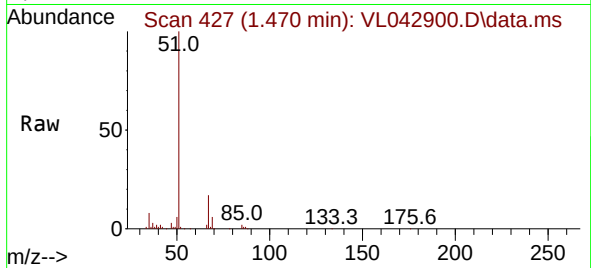




#3  
Chlorodifluoromethane  
Concen: 10.910 ppbv  
RT: 1.470 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

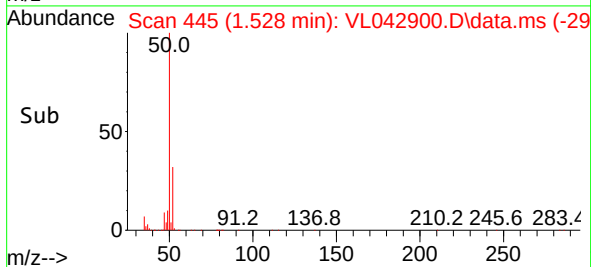
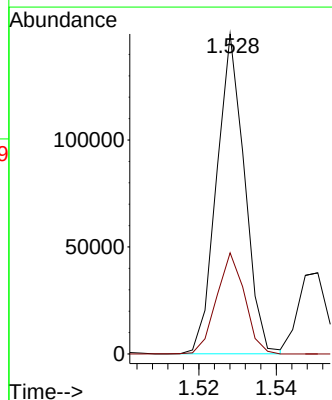
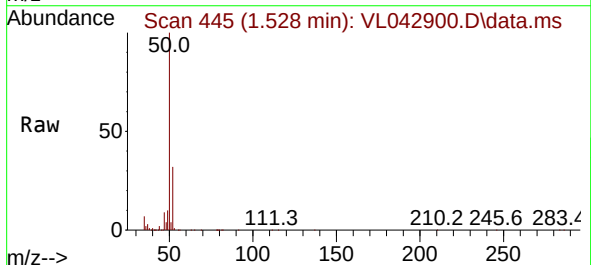
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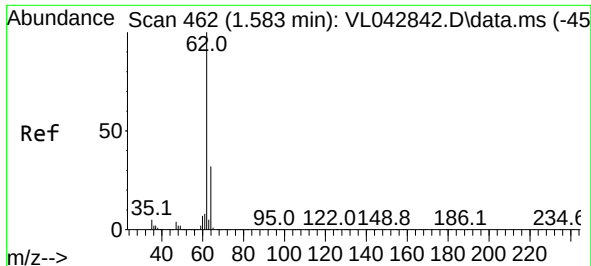
Tgt Ion: 51 Resp: 223887  
Ion Ratio Lower Upper  
51 100  
67 17.5 14.9 22.3



#4  
Chloromethane  
Concen: 9.988 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 50 Resp: 74830  
Ion Ratio Lower Upper  
50 100  
52 31.6 25.9 38.9

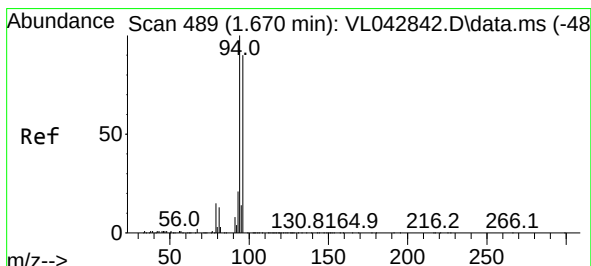
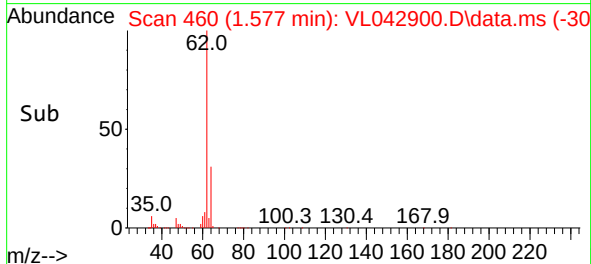
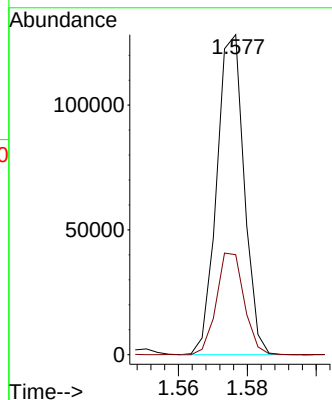
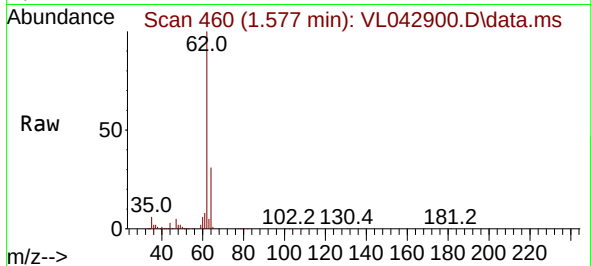




#5  
 Vinyl Chloride  
 Concen: 9.609 ppbv  
 RT: 1.577 min Scan# 460  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

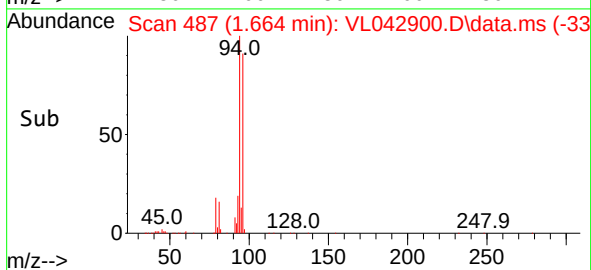
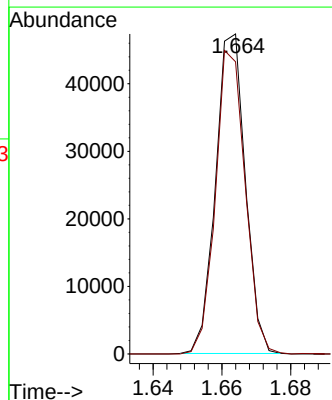
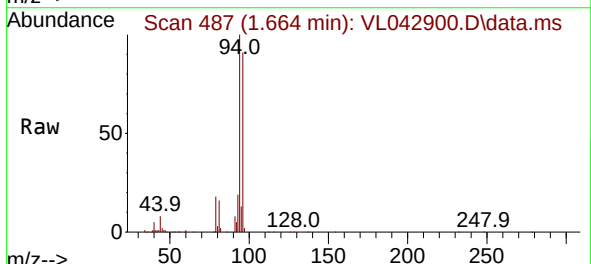
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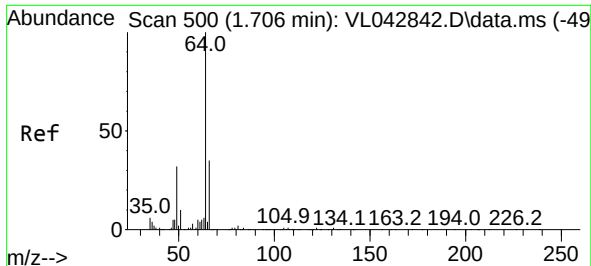
Tgt Ion: 62 Resp: 70899  
 Ion Ratio Lower Upper  
 62 100  
 64 31.3 25.4 38.2



#6  
 Bromomethane  
 Concen: 9.659 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Tgt Ion: 94 Resp: 28498  
 Ion Ratio Lower Upper  
 94 100  
 96 91.4 72.1 108.1

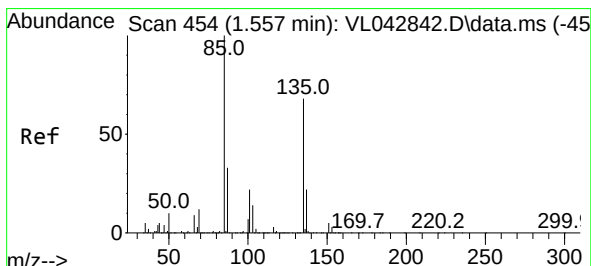
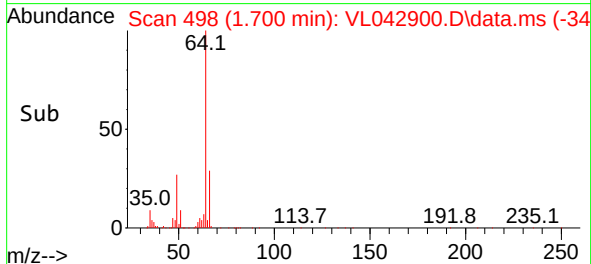
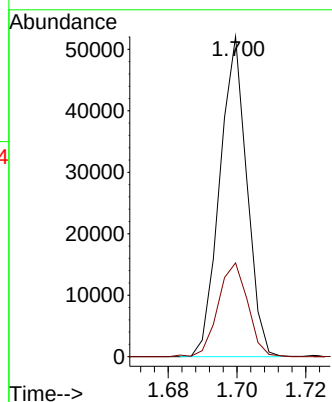
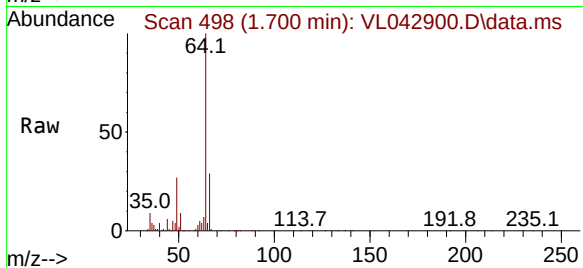




#7  
Chloroethane  
Concen: 9.889 ppbv  
RT: 1.700 min Scan# 498  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

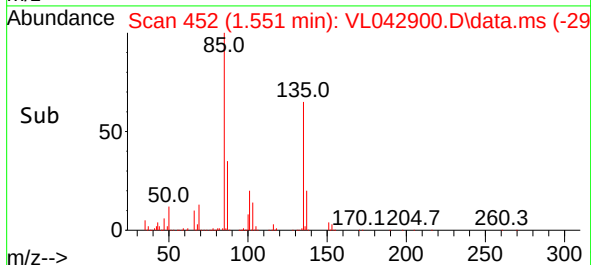
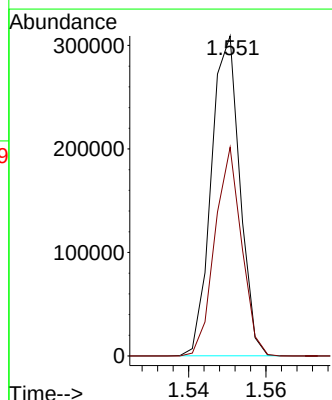
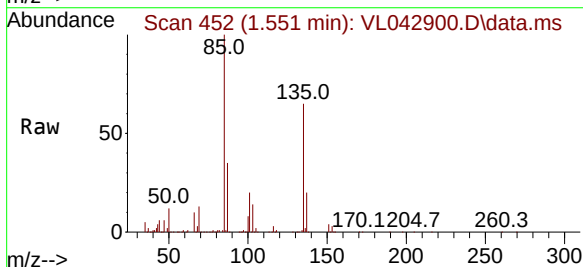
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

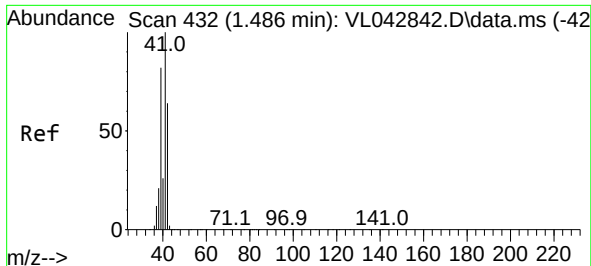
Tgt Ion: 64 Resp: 28496  
Ion Ratio Lower Upper  
64 100  
66 29.3 28.6 42.8



#8  
Dichlorotetrafluoroethane  
Concen: 10.420 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 85 Resp: 158303  
Ion Ratio Lower Upper  
85 100  
135 61.2 51.2 76.8

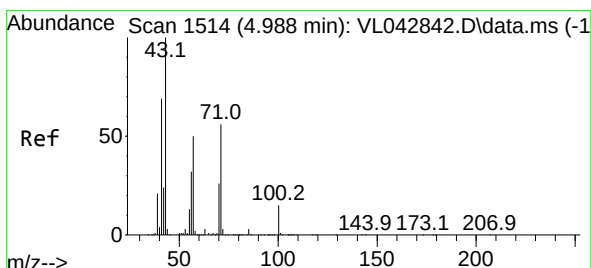
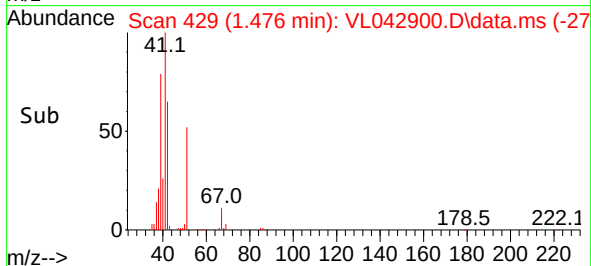
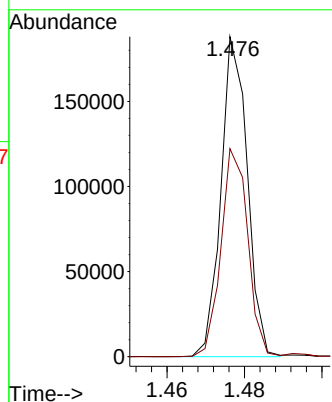
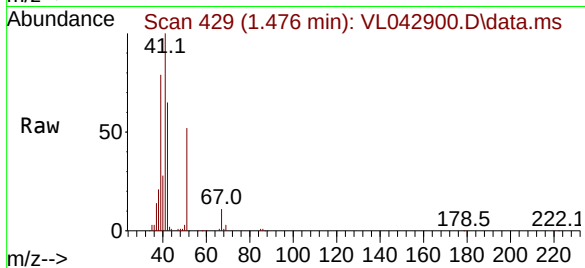




#9  
Propene  
Concen: 10.009 ppbv  
RT: 1.476 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

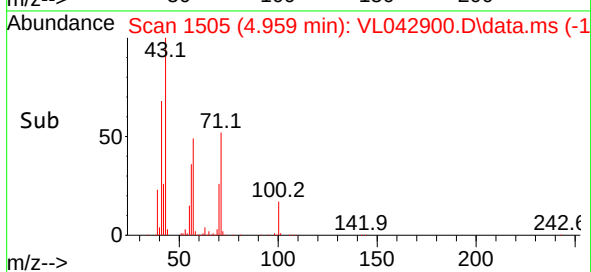
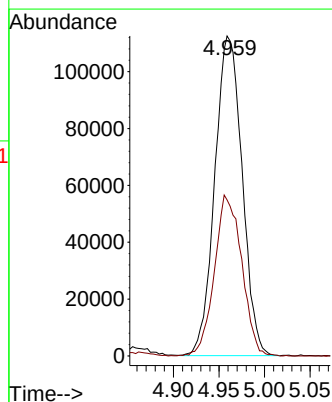
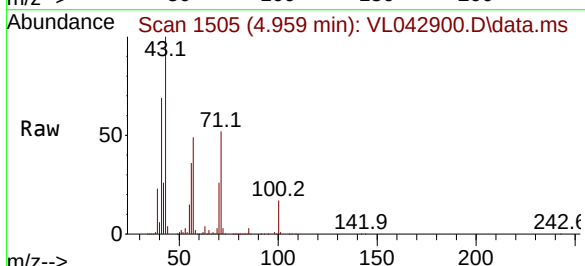
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 41 Resp: 88702  
Ion Ratio Lower Upper  
41 100  
42 67.1 53.0 79.4

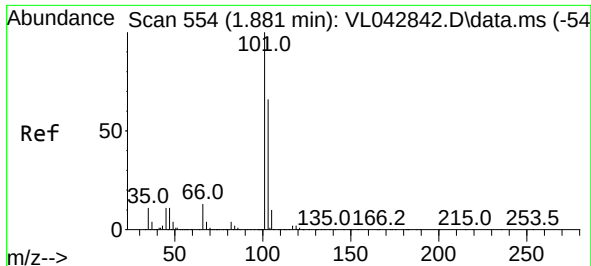


#10  
Heptane  
Concen: 9.898 ppbv  
RT: 4.959 min Scan# 1505  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 234952  
Ion Ratio Lower Upper  
43 100  
57 50.2 41.4 62.0



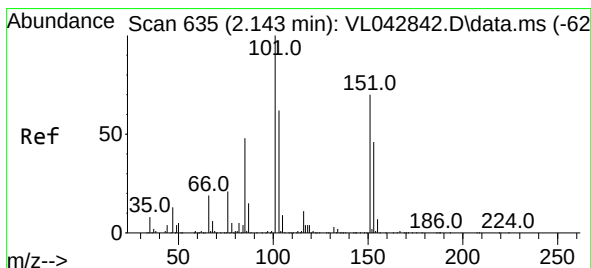
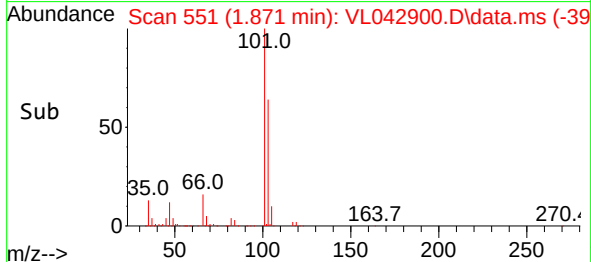
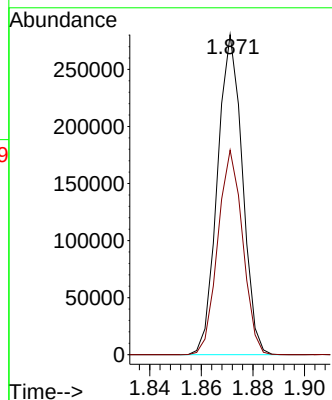
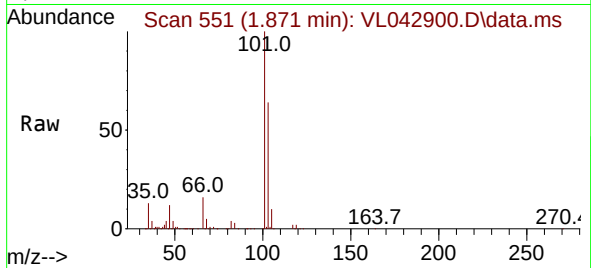




#11  
 Trichlorofluoromethane  
 Concen: 10.280 ppbv  
 RT: 1.871 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

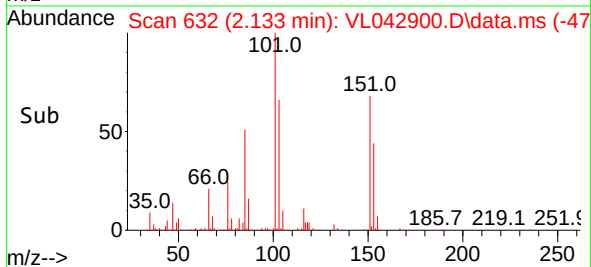
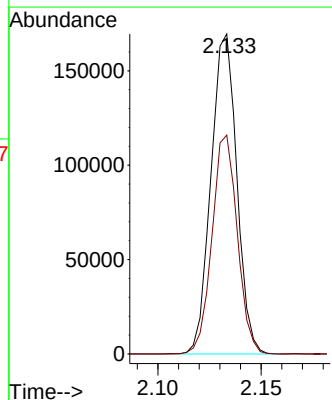
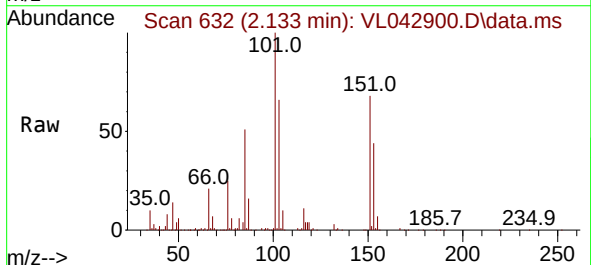
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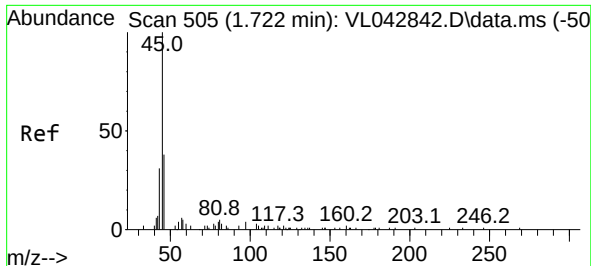
Tgt Ion:101 Resp: 188309  
 Ion Ratio Lower Upper  
 101 100  
 103 63.9 52.5 78.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.089 ppbv  
 RT: 2.133 min Scan# 632  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Tgt Ion:101 Resp: 147287  
 Ion Ratio Lower Upper  
 101 100  
 151 66.9 56.4 84.6

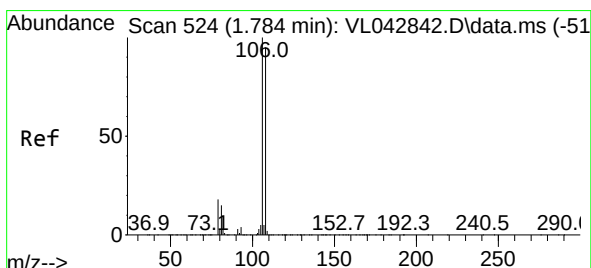
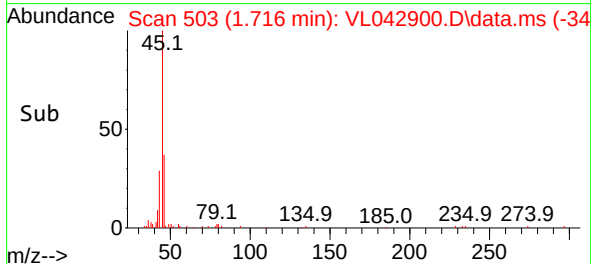
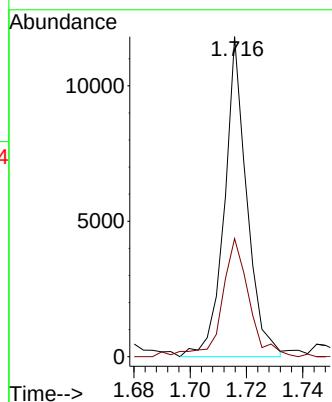
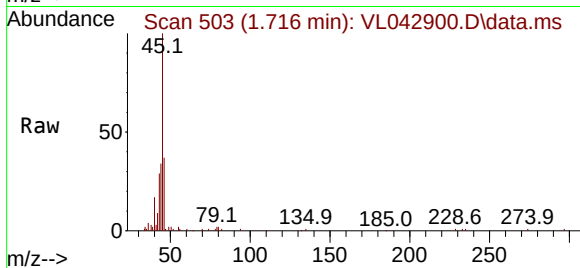




#13  
 Ethanol  
 Concen: 8.052 ppbv  
 RT: 1.716 min Scan# 505  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

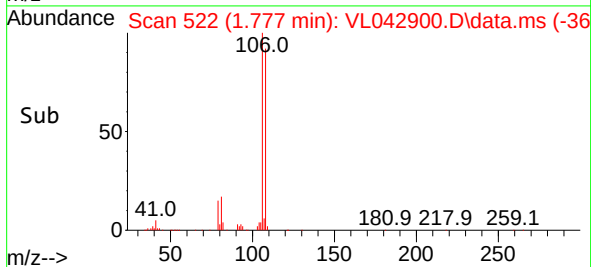
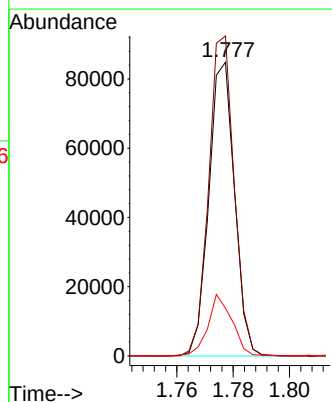
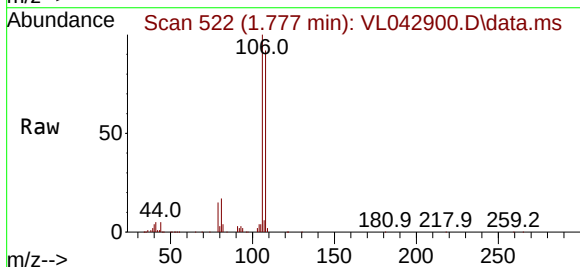
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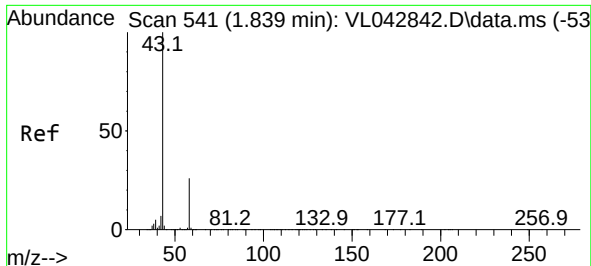
Tgt Ion: 45 Resp: 6525  
 Ion Ratio Lower Upper  
 45 100  
 46 44.8 17.5 69.9



#14  
 Bromoethene  
 Concen: 10.171 ppbv  
 RT: 1.777 min Scan# 522  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Tgt Ion: 108 Resp: 53755  
 Ion Ratio Lower Upper  
 108 100  
 106 107.9 85.1 127.7  
 79 19.9 16.3 24.5

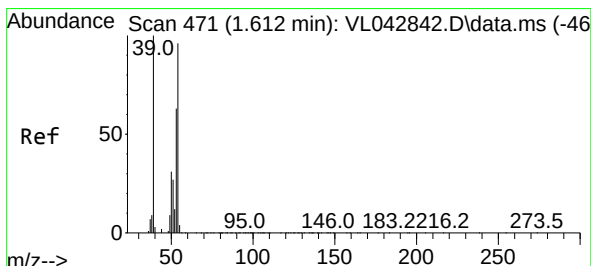
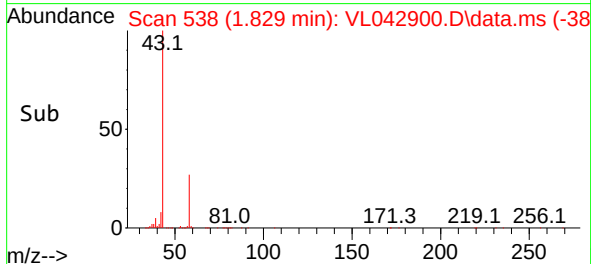
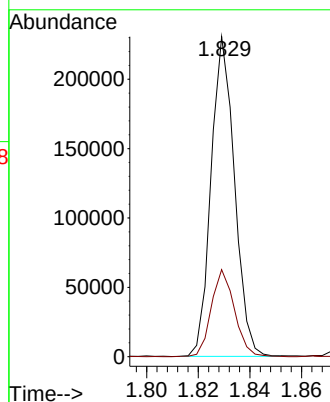
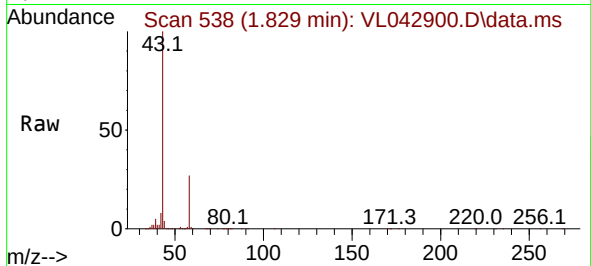




#15  
Acetone  
Concen: 8.670 ppbv  
RT: 1.829 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

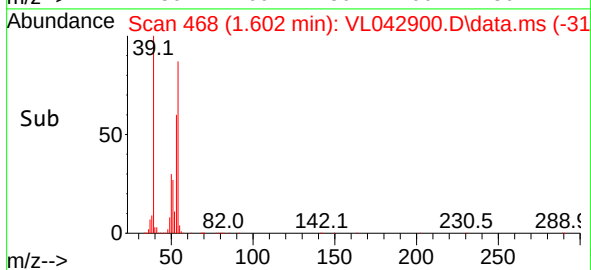
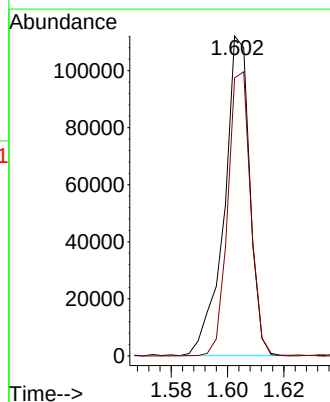
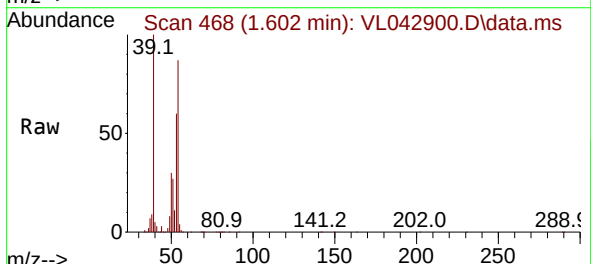
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VSTDCCC010

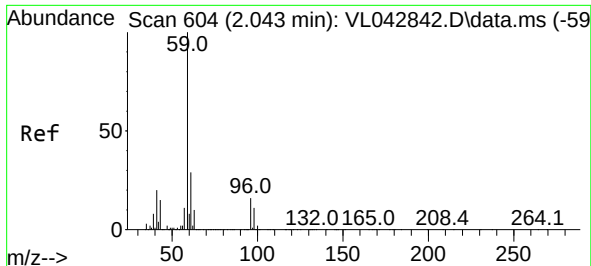
Tgt Ion: 43 Resp: 145289  
Ion Ratio Lower Upper  
43 100  
58 27.0 22.4 33.6



#16  
1,3-Butadiene  
Concen: 9.308 ppbv  
RT: 1.602 min Scan# 468  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 39 Resp: 70713  
Ion Ratio Lower Upper  
39 100  
54 79.5 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.574 ppbv

RT: 2.033 min Scan# 604

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_1

ClientSampleId :

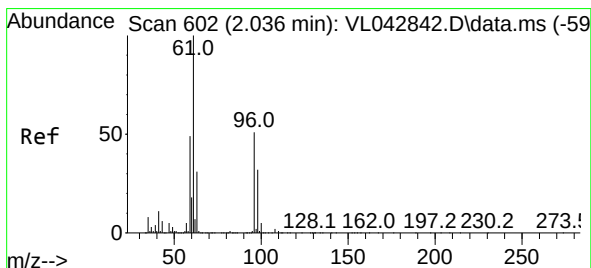
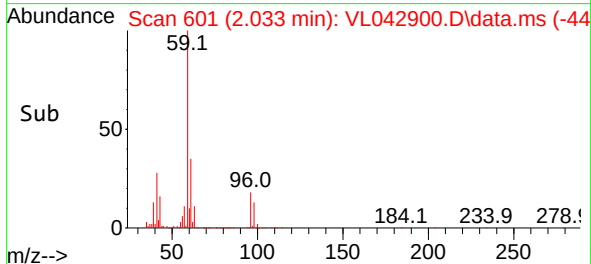
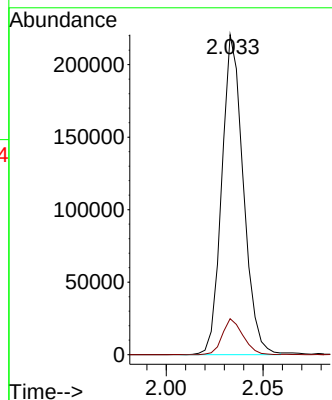
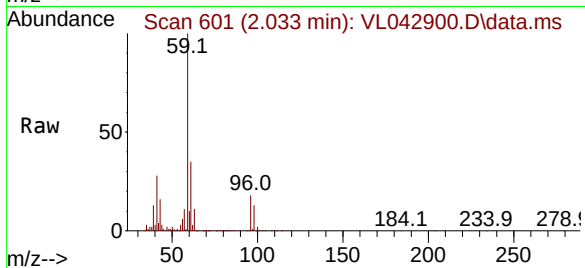
VSTDCCC010

Tgt Ion: 59 Resp: 170394

Ion Ratio Lower Upper

59 100

57 10.8 9.0 13.4



#18

1,1-Dichloroethene

Concen: 9.900 ppbv

RT: 2.026 min Scan# 599

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

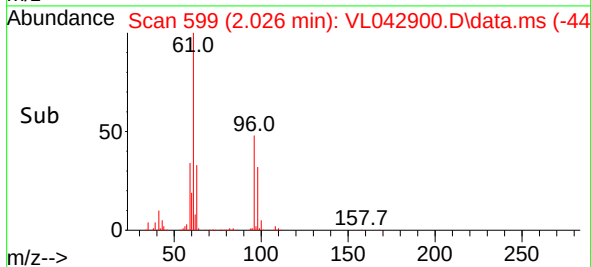
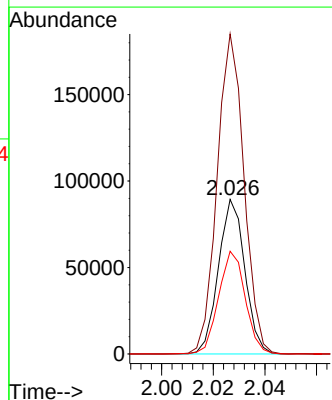
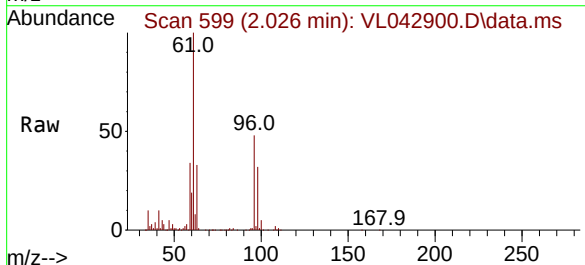
Tgt Ion: 96 Resp: 63544

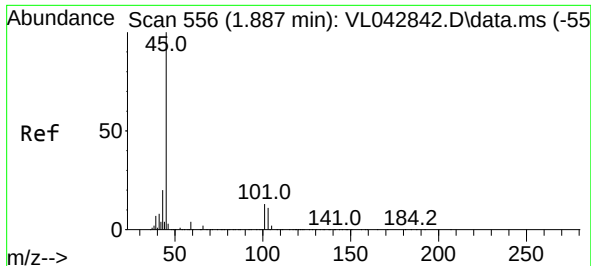
Ion Ratio Lower Upper

96 100

61 207.0 158.2 237.4

98 66.3 50.6 76.0

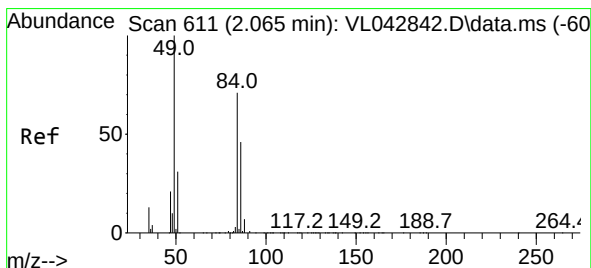
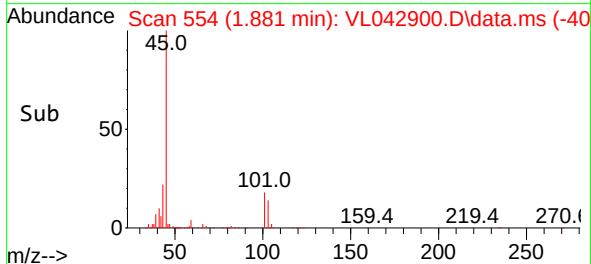
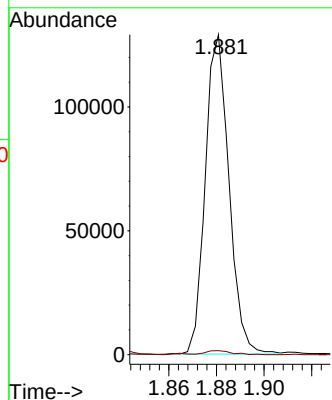
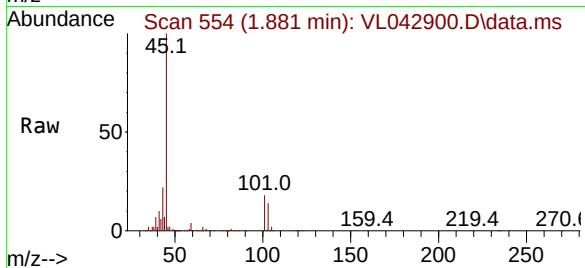




#19  
Isopropyl Alcohol  
Concen: 8.893 ppbv  
RT: 1.881 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

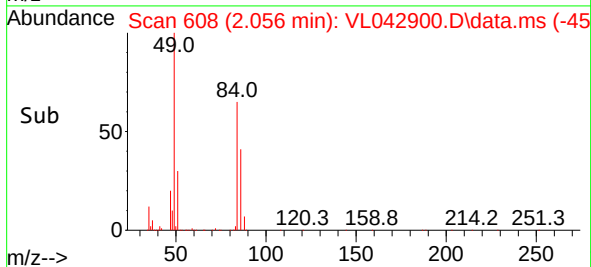
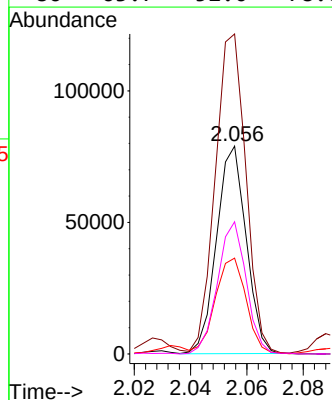
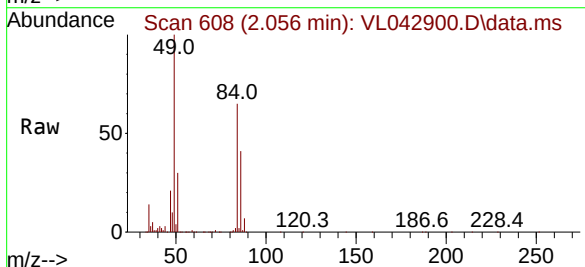
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

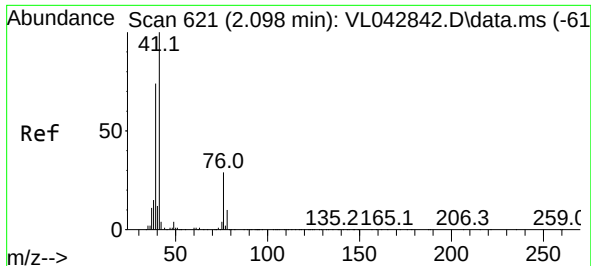
Tgt Ion: 45 Resp: 89009  
Ion Ratio Lower Upper  
45 100  
58 44.1 32.7 49.1



#20  
Methylene Chloride  
Concen: 8.219 ppbv  
RT: 2.056 min Scan# 608  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 84 Resp: 57698  
Ion Ratio Lower Upper  
84 100  
49 153.6 112.3 168.5  
51 45.6 36.0 54.0  
86 63.7 52.0 78.0





#21

Allyl Chloride

Concen: 9.658 ppbv

RT: 2.088 min Scan# 61

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

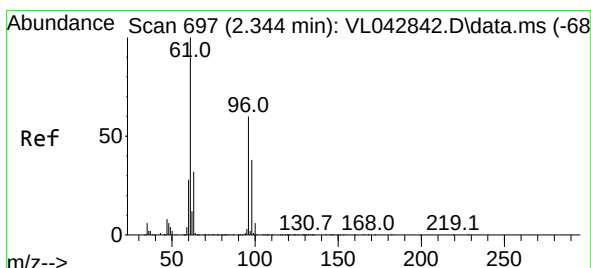
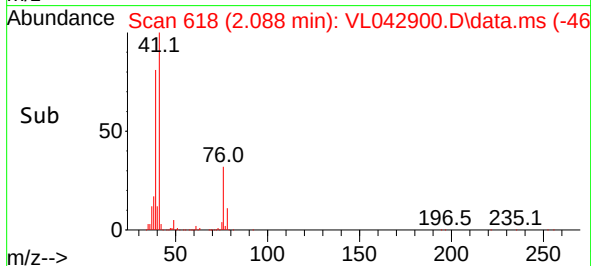
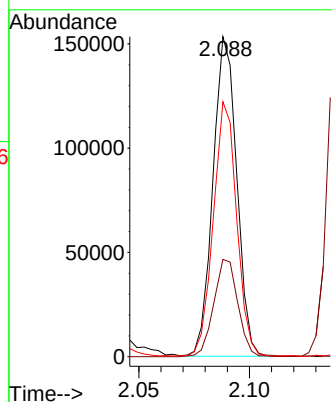
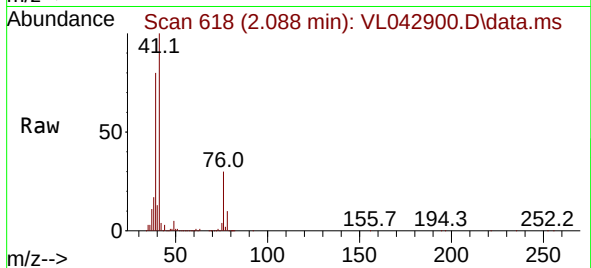
Tgt Ion: 41 Resp: 114332

Ion Ratio Lower Upper

41 100

76 30.9 23.9 35.9

39 78.4 57.8 86.6



#22

trans-1,2-Dichloroethene

Concen: 9.971 ppbv

RT: 2.331 min Scan# 693

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

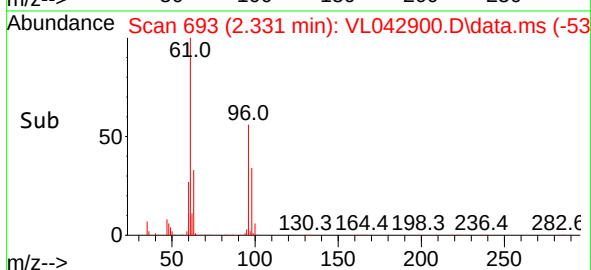
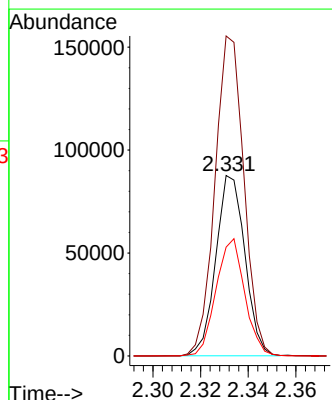
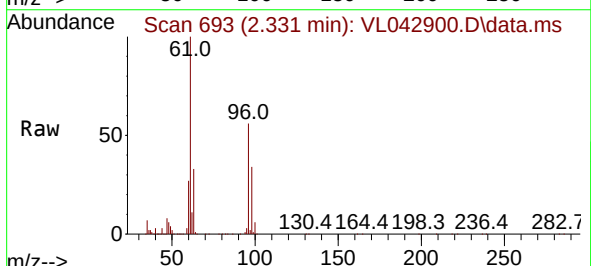
Tgt Ion: 96 Resp: 74045

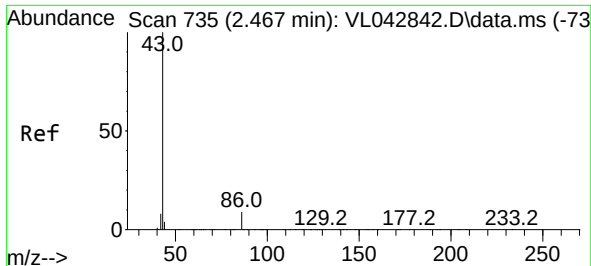
Ion Ratio Lower Upper

96 100

61 177.5 132.6 199.0

98 60.3 50.0 75.0



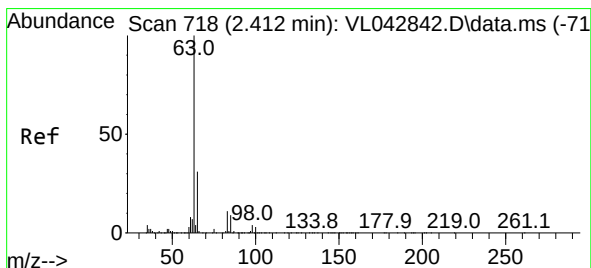
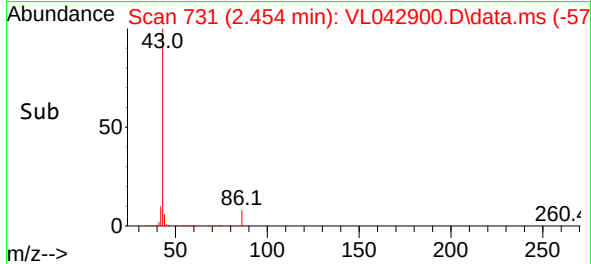
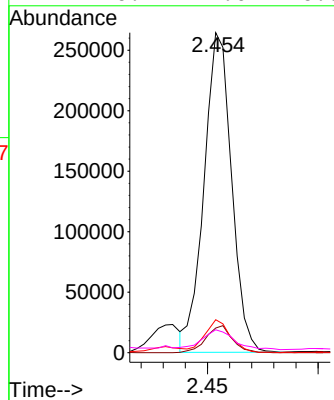
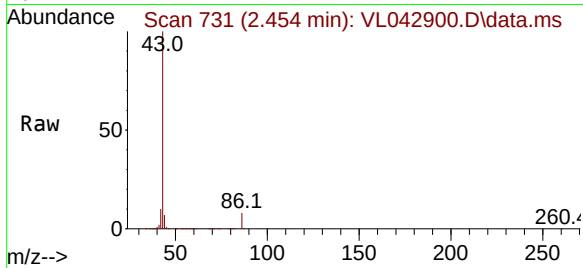


#23  
 Vinyl Acetate  
 Concen: 9.907 ppbv  
 RT: 2.454 min Scan# 715  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

Tgt Ion: 43 Resp: 228268

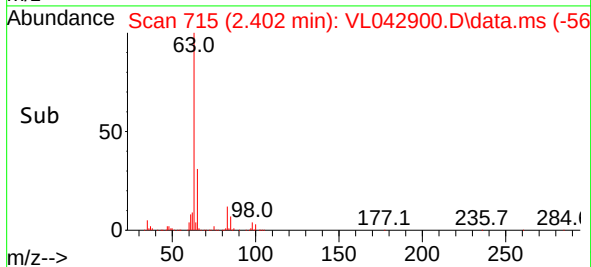
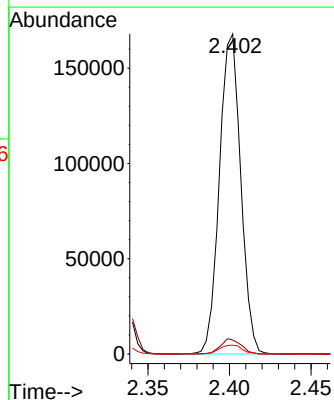
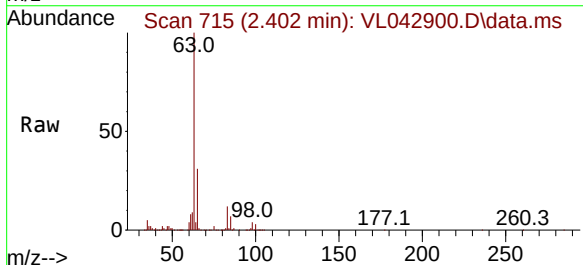
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.7   | 6.6   | 9.8   |
| 42  | 10.3  | 7.0   | 10.6  |
| 44  | 6.1   | 4.0   | 6.0   |

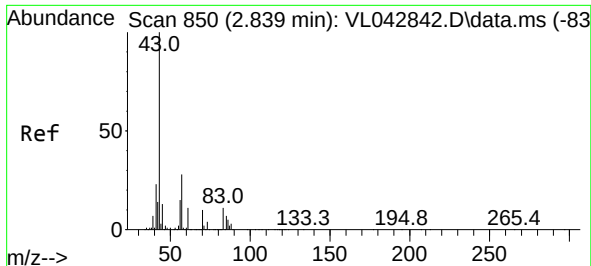


#24  
 1,1-Dichloroethane  
 Concen: 10.291 ppbv  
 RT: 2.402 min Scan# 715  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Tgt Ion: 63 Resp: 152618

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.4   | 2.1   | 6.5   |
| 100 | 2.7   | 1.7   | 5.1   |

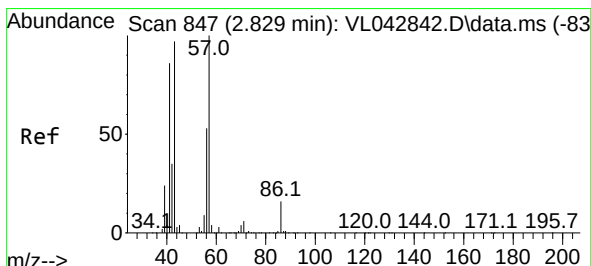
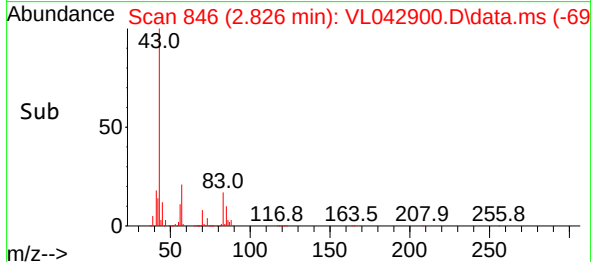
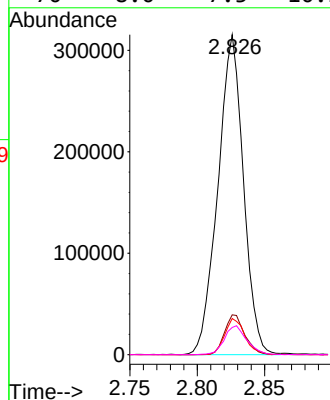
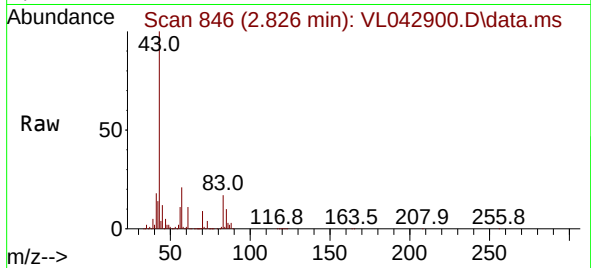




#25  
Ethyl Acetate  
Concen: 10.242 ppbv  
RT: 2.826 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

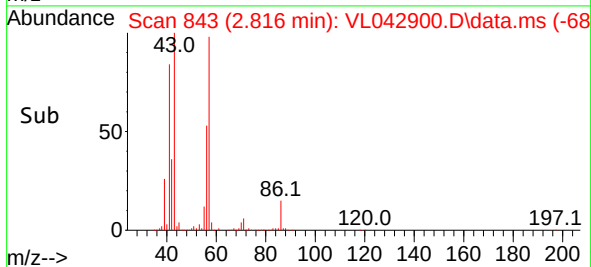
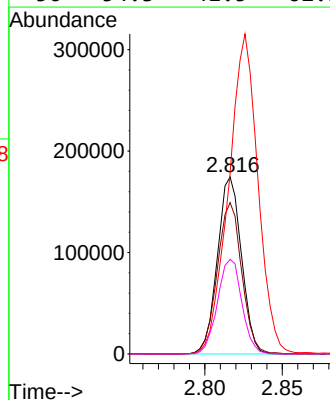
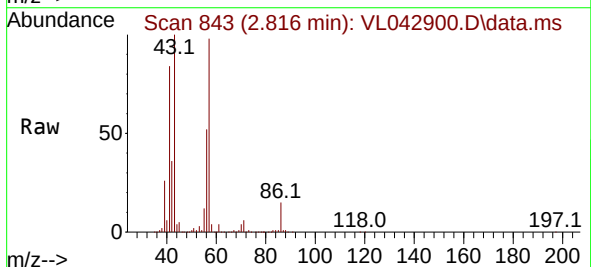
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 43    | Resp: | 415386 |
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 9.9   | 8.1   | 12.1   |
| 61       | 9.0   | 7.4   | 11.2   |
| 70       | 8.0   | 7.3   | 10.9   |

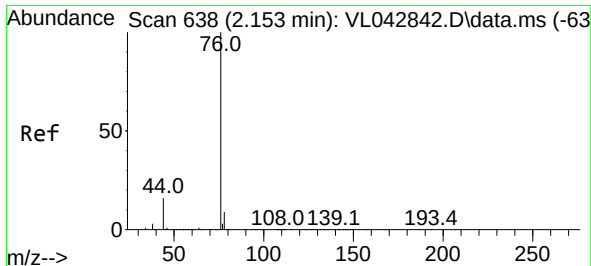


#26  
Hexane  
Concen: 10.031 ppbv  
RT: 2.816 min Scan# 843  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 57    | Resp: | 187779 |
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 87.6  | 68.6  | 103.0  |
| 43       | 222.1 | 168.5 | 252.7  |
| 56       | 54.3  | 41.5  | 62.3   |



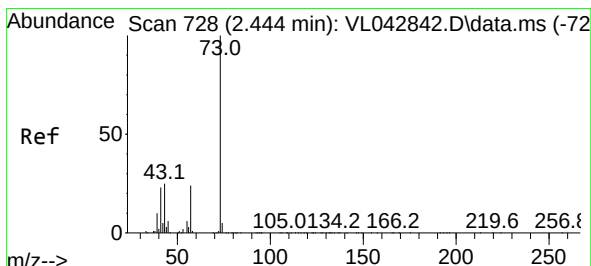
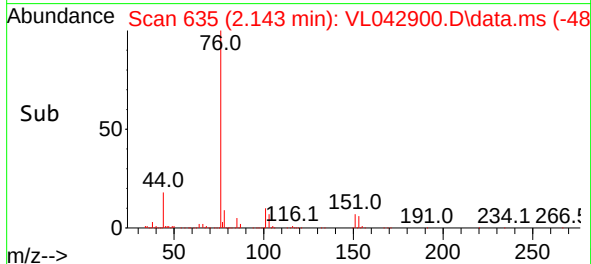
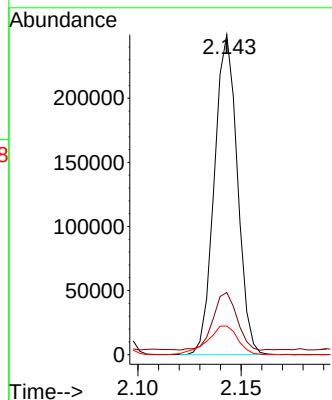
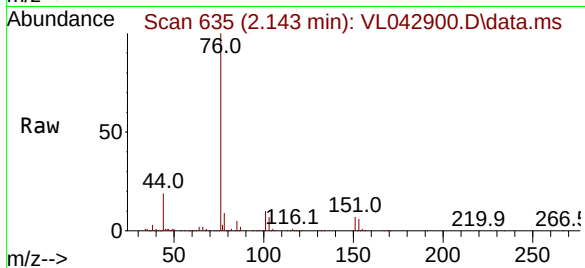




#27  
Carbon Disulfide  
Concen: 10.608 ppbv  
RT: 2.143 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

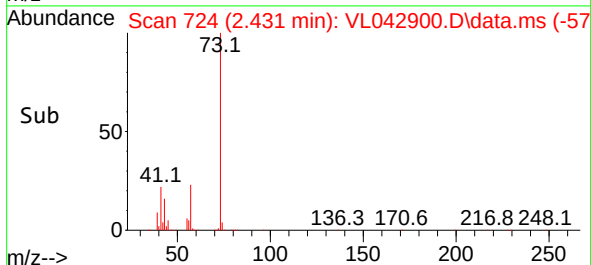
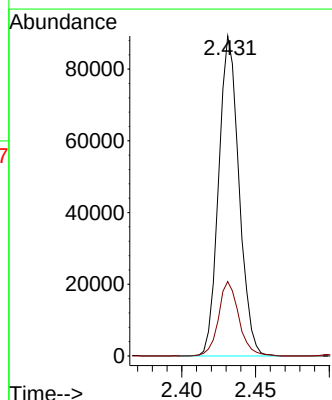
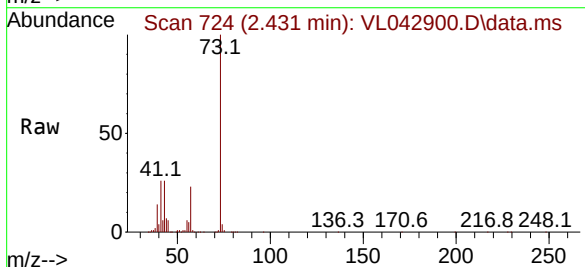
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

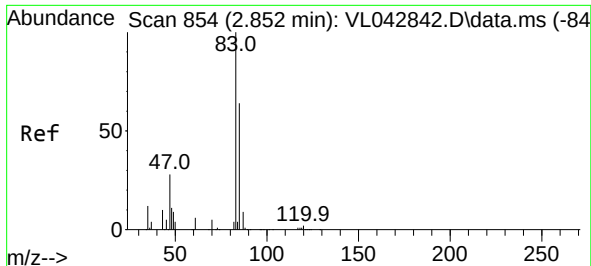
Tgt Ion: 76 Resp: 193262  
Ion Ratio Lower Upper  
76 100  
44 18.7 15.9 23.9  
78 11.8 9.5 14.3



#28  
Methyl tert-Butyl Ether  
Concen: 8.986 ppbv  
RT: 2.431 min Scan# 724  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 73 Resp: 85774  
Ion Ratio Lower Upper  
73 100  
57 23.3 21.6 32.4





#29

Chloroform

Concen: 10.538 ppbv

RT: 2.839 min Scan# 81

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

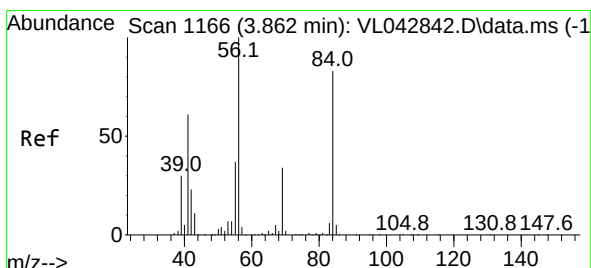
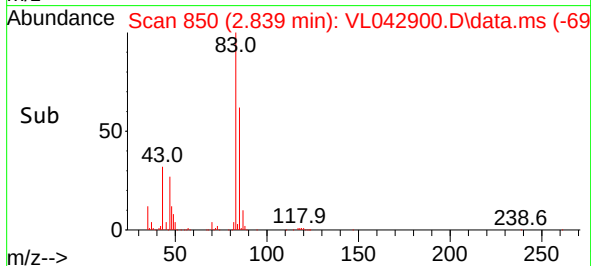
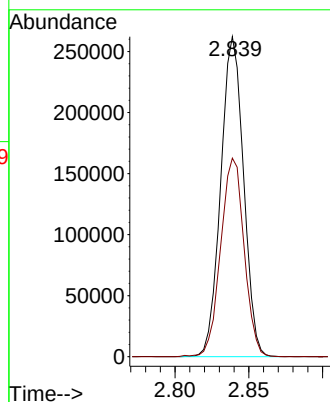
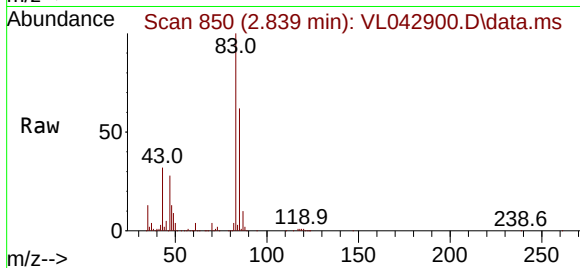
VSTDCCC010

Tgt Ion: 83 Resp: 281659

Ion Ratio Lower Upper

83 100

85 62.0 51.1 76.7



#30

Cyclohexane

Concen: 9.326 ppbv

RT: 3.842 min Scan# 1160

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

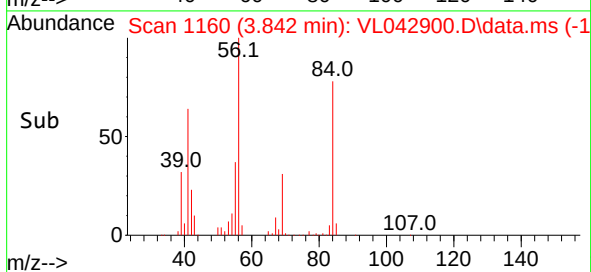
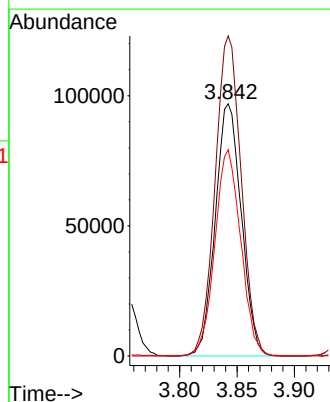
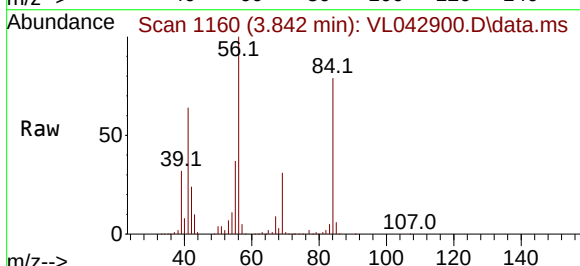
Tgt Ion: 84 Resp: 153066

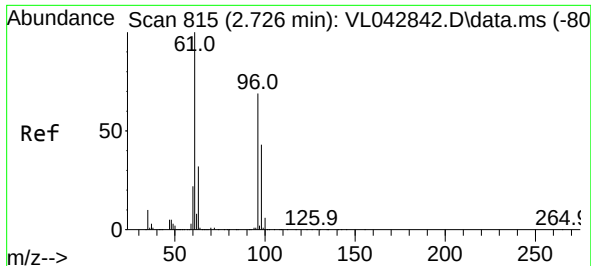
Ion Ratio Lower Upper

84 100

56 127.0 98.8 148.2

41 81.3 61.3 91.9

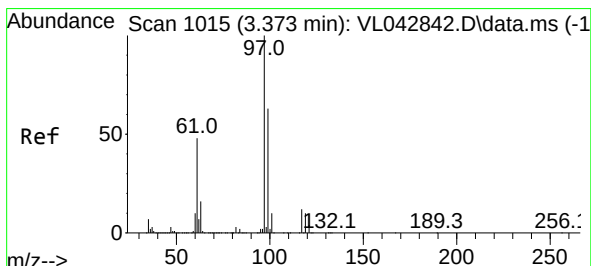
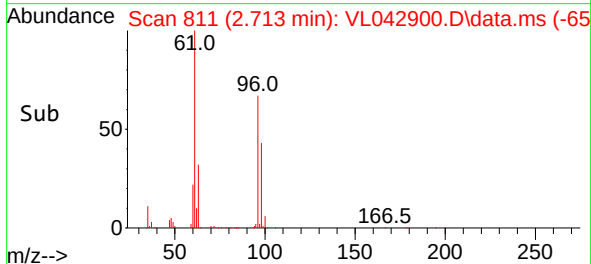
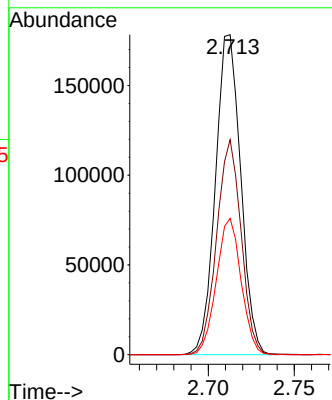
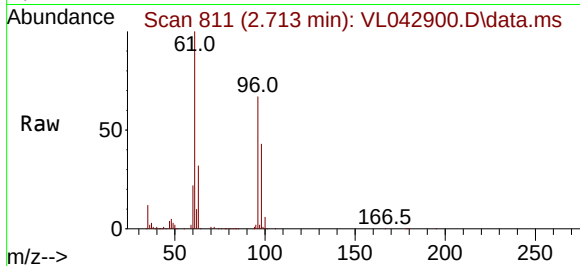




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.765 ppbv  
 RT: 2.713 min Scan# 81  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

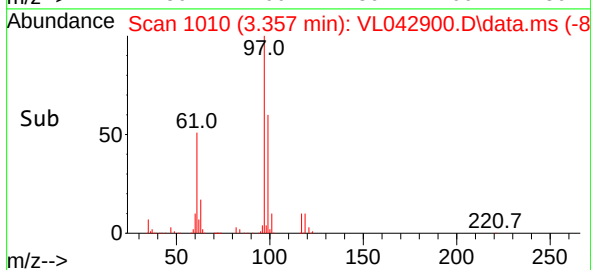
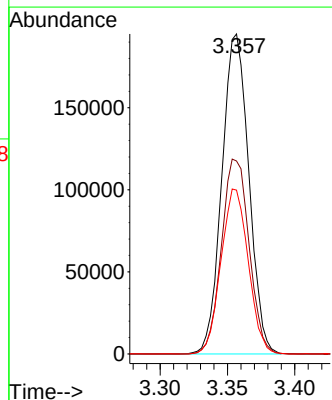
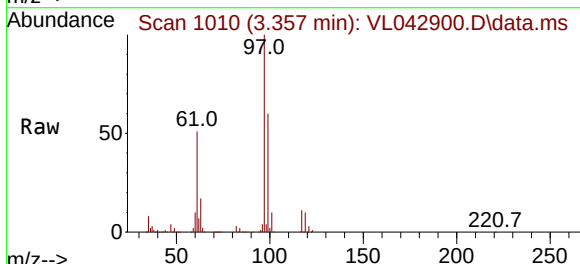
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VSTDCCC010

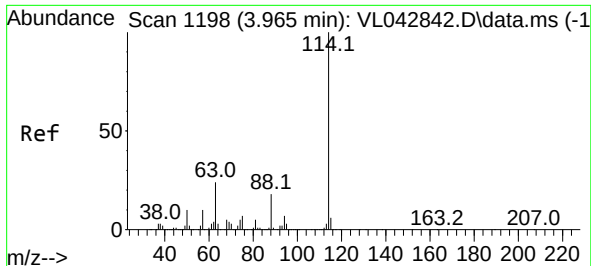
|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 61    | Resp: | 182592 |
| Ion Ratio | Lower | Upper |        |
| 61        | 100   |       |        |
| 96        | 67.1  | 55.0  | 82.6   |
| 98        | 42.6  | 34.3  | 51.5   |



#32  
 1,1,1-Trichloroethane  
 Concen: 9.609 ppbv  
 RT: 3.357 min Scan# 1010  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 97    | Resp: | 271429 |
| Ion Ratio | Lower | Upper |        |
| 97        | 100   |       |        |
| 99        | 62.5  | 51.0  | 76.6   |
| 61        | 52.2  | 38.0  | 57.0   |

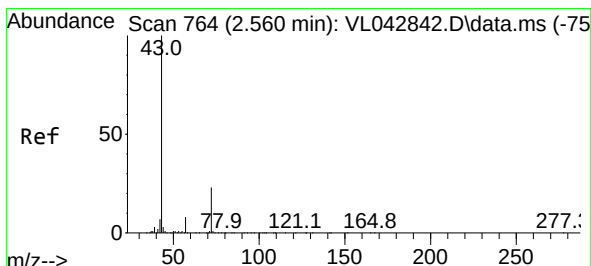
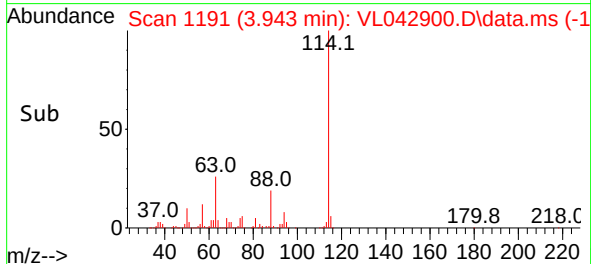
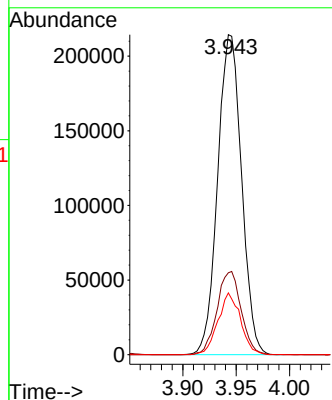
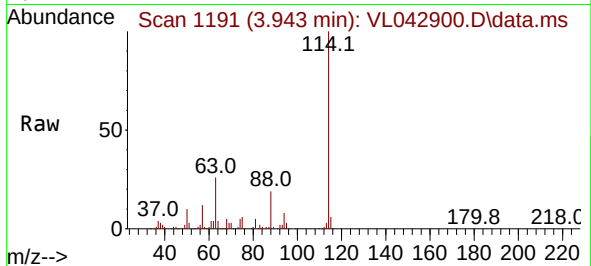




#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.943 min Scan# 1198  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

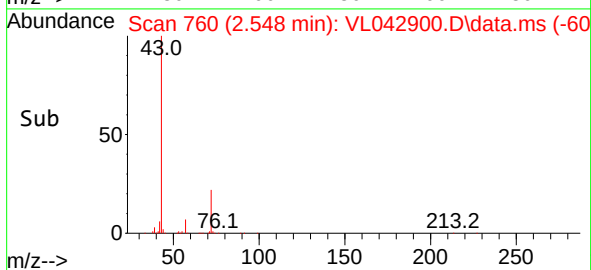
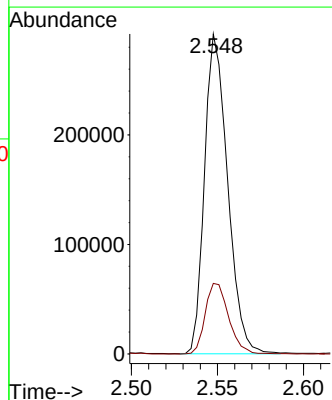
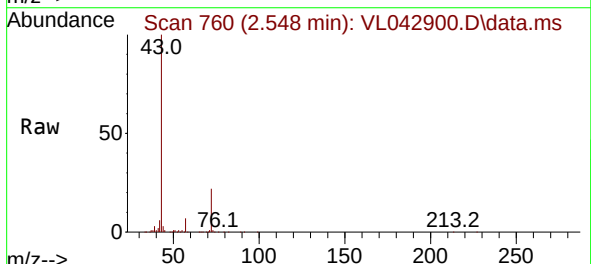
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

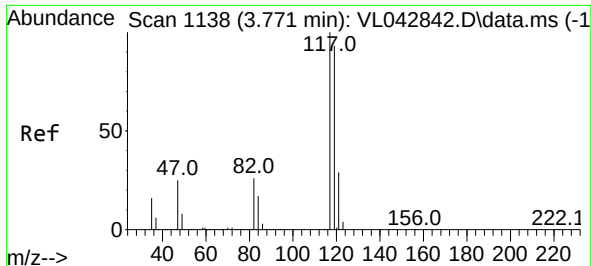
Tgt Ion:114 Resp: 333606  
 Ion Ratio Lower Upper  
 114 100  
 63 26.3 19.7 29.5  
 88 18.2 14.4 21.6



#34  
 2-Butanone  
 Concen: 12.107 ppbv  
 RT: 2.548 min Scan# 760  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 272735  
 Ion Ratio Lower Upper  
 43 100  
 72 22.4 18.6 28.0

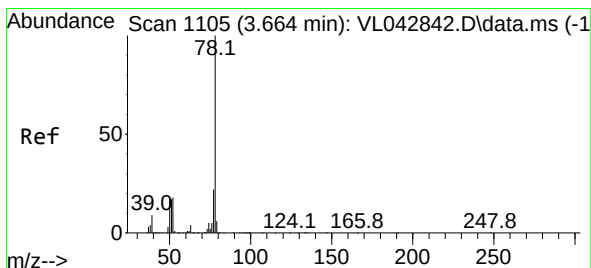
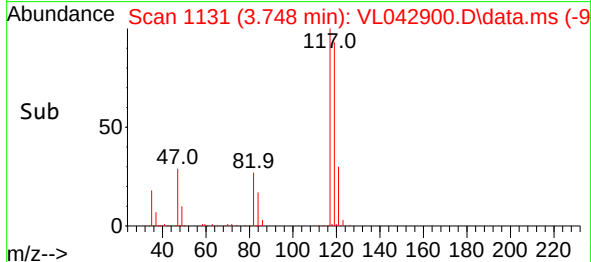
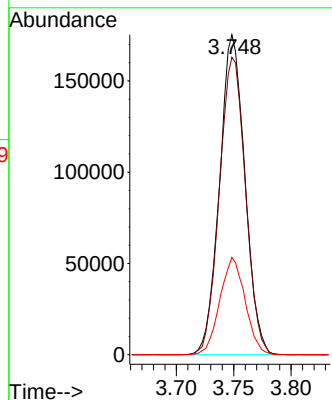
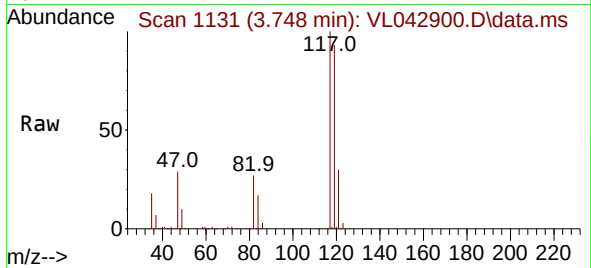




#35  
Carbon Tetrachloride  
Concen: 11.700 ppbv  
RT: 3.748 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

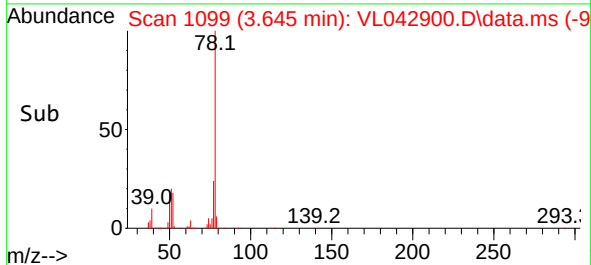
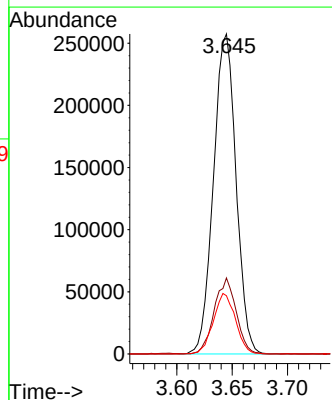
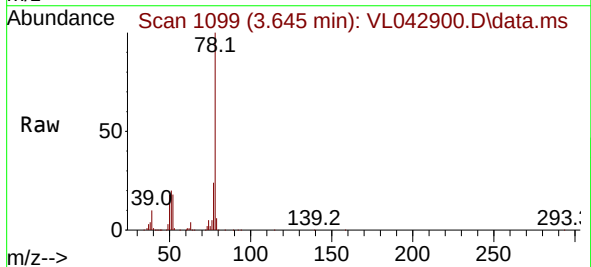
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

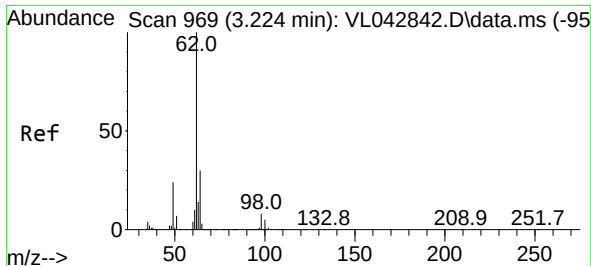
Tgt Ion:117 Resp: 269097  
Ion Ratio Lower Upper  
117 100  
119 93.0 74.7 112.1  
121 30.4 23.2 34.8



#36  
Benzene  
Concen: 11.458 ppbv  
RT: 3.645 min Scan# 1099  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 78 Resp: 366027  
Ion Ratio Lower Upper  
78 100  
77 23.7 17.7 26.5  
50 18.2 13.9 20.9





#37

1,2-Dichloroethane

Concen: 12.686 ppbv

RT: 3.208 min Scan# 9

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

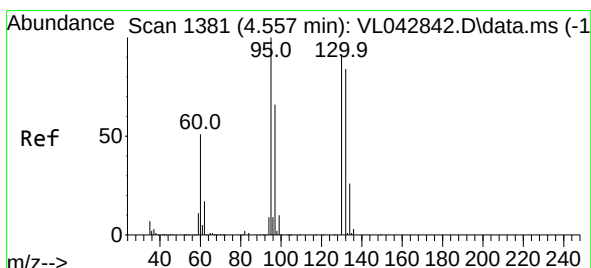
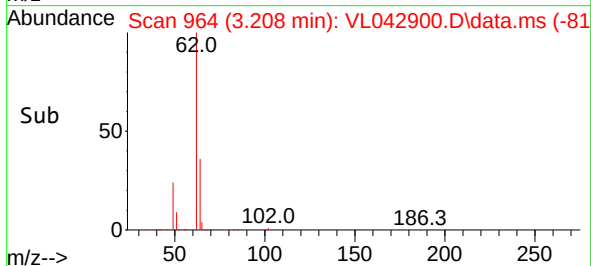
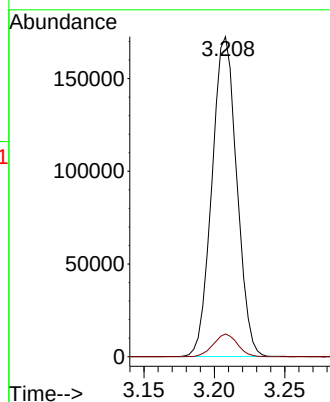
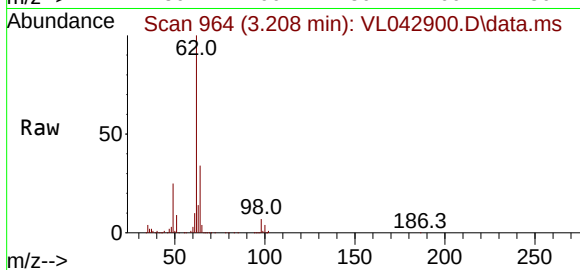
VSTDCCC010

Tgt Ion: 62 Resp: 211728

Ion Ratio Lower Upper

62 100

98 6.9 5.9 8.9



#38

Trichloroethene

Concen: 10.413 ppbv

RT: 4.532 min Scan# 1373

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion:130 Resp: 151915

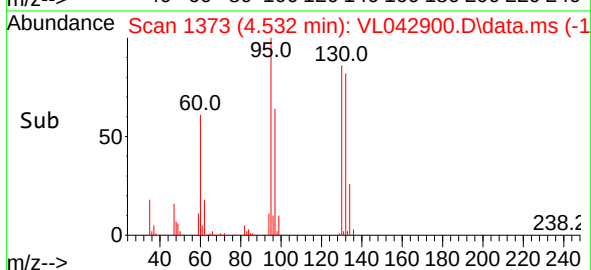
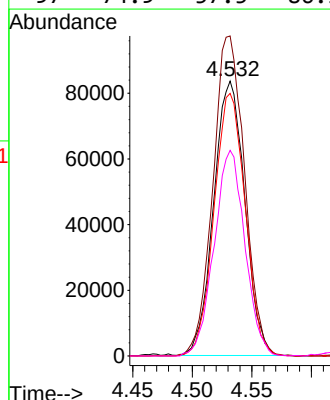
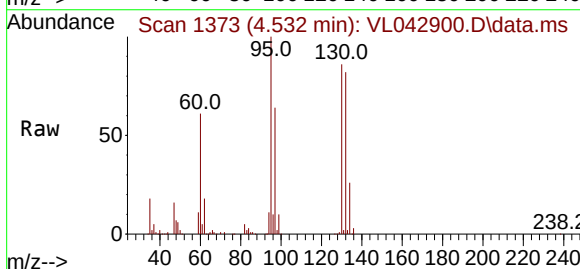
Ion Ratio Lower Upper

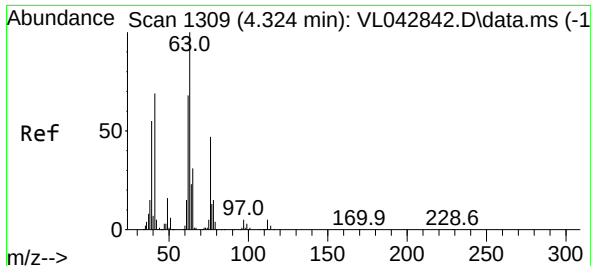
130 100

95 116.1 87.6 131.4

132 95.4 73.8 110.8

97 74.9 57.5 86.3





#39

1,2-Dichloropropane

Concen: 11.970 ppbv

RT: 4.299 min Scan# 11

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

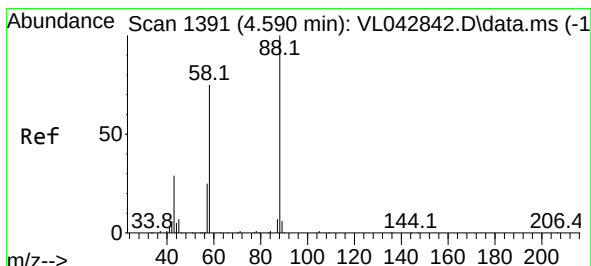
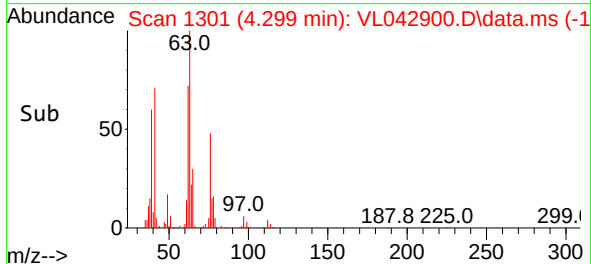
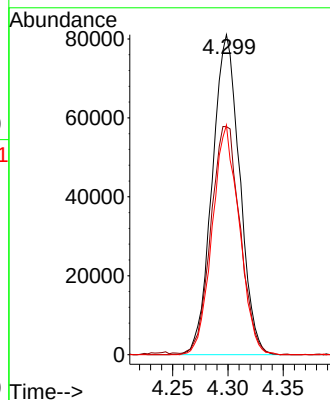
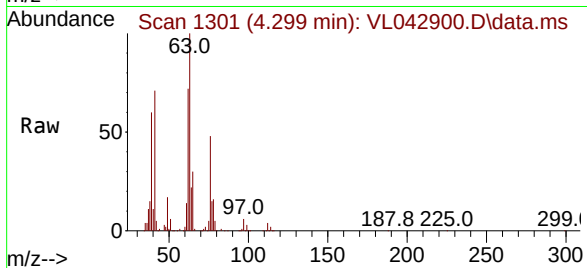
Tgt Ion: 63 Resp: 139657

Ion Ratio Lower Upper

63 100

41 71.2 55.0 82.4

62 71.8 54.4 81.6



#40

1,4-Dioxane

Concen: 10.096 ppbv

RT: 4.561 min Scan# 1382

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion: 88 Resp: 56013

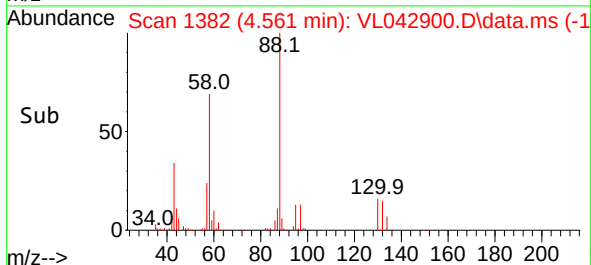
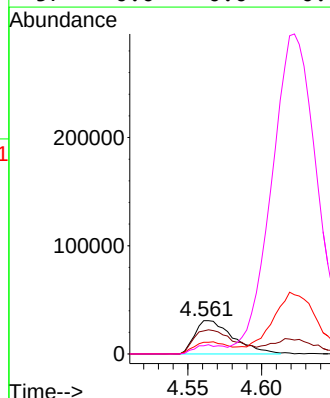
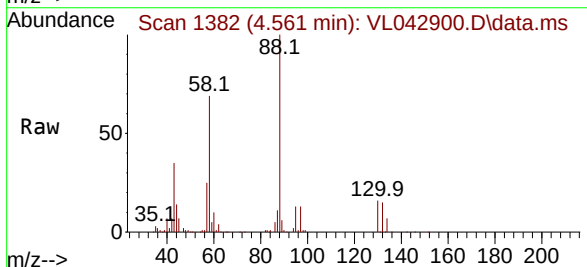
Ion Ratio Lower Upper

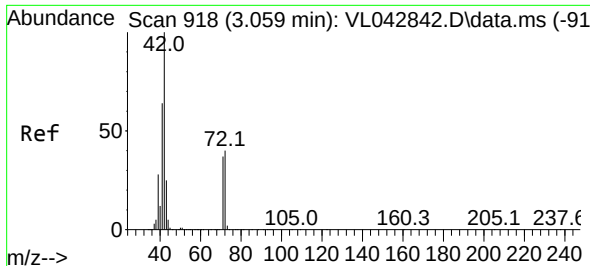
88 100

58 76.6 53.8 80.6

43 35.7 22.8 34.2#

57 0.0 0.0 0.0

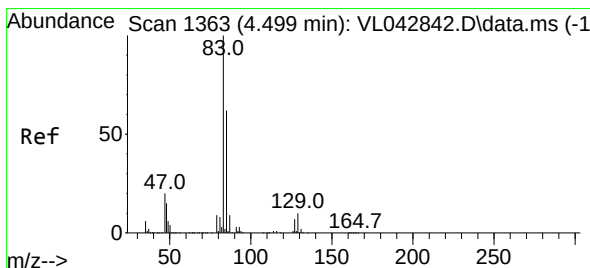
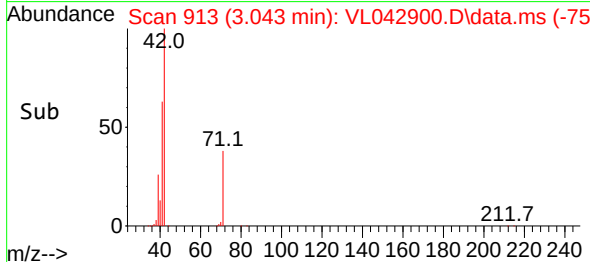
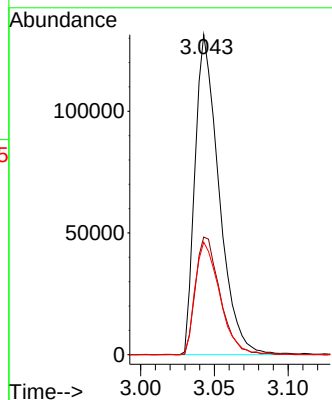
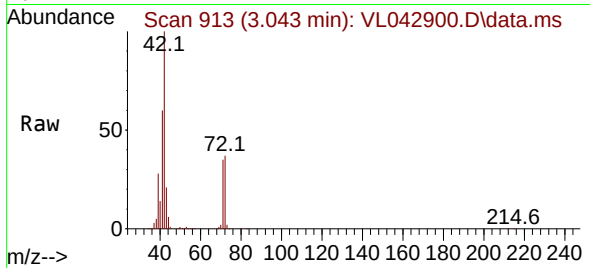




#41  
Tetrahydrofuran  
Concen: 11.863 ppbv  
RT: 3.043 min Scan# 918  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

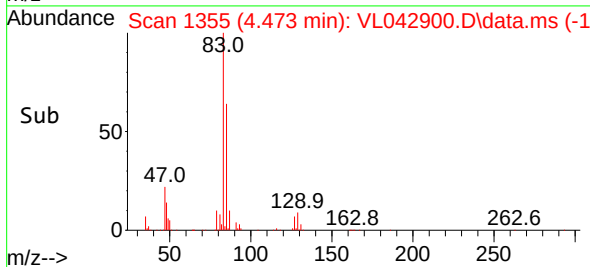
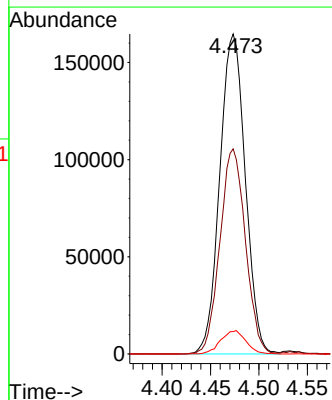
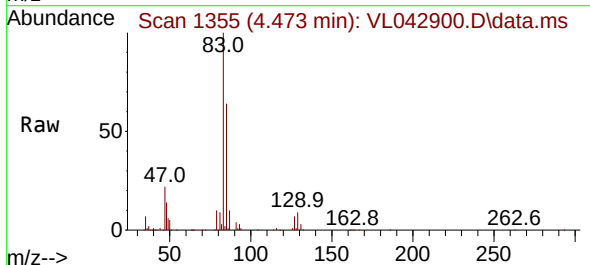
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

Tgt Ion: 42 Resp: 148990  
Ion Ratio Lower Upper  
42 100  
72 37.6 32.6 48.8  
71 36.3 30.0 45.0

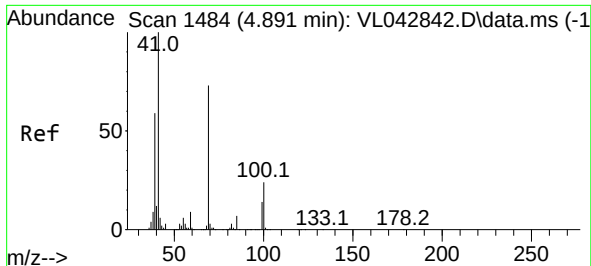


#42  
Bromodichloromethane  
Concen: 12.136 ppbv  
RT: 4.473 min Scan# 1355  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 83 Resp: 301814  
Ion Ratio Lower Upper  
83 100  
85 64.1 49.8 74.8  
127 7.0 5.8 8.6



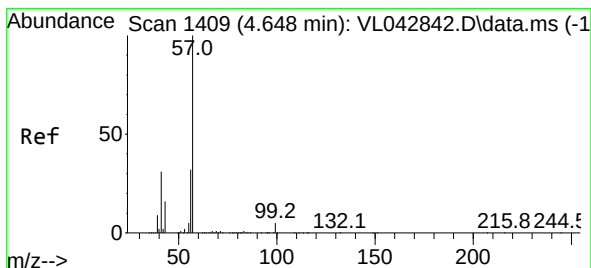
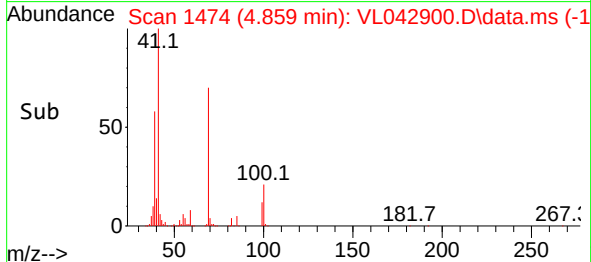
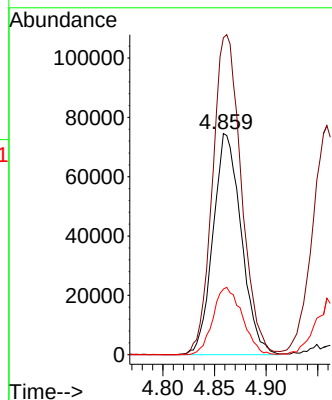
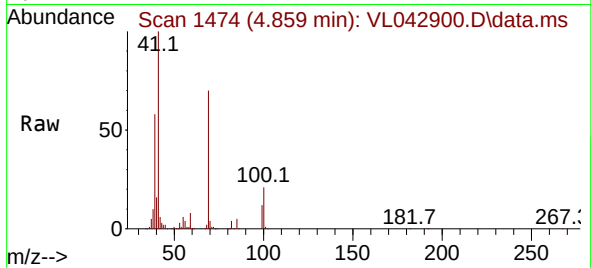




#43  
Methyl Methacrylate  
Concen: 10.776 ppbv  
RT: 4.859 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

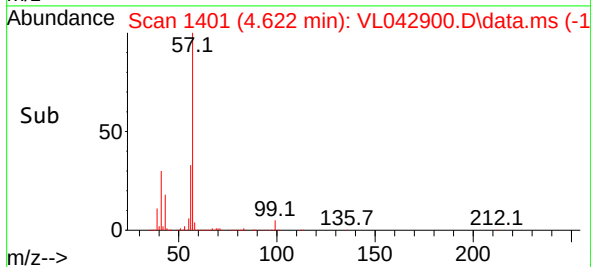
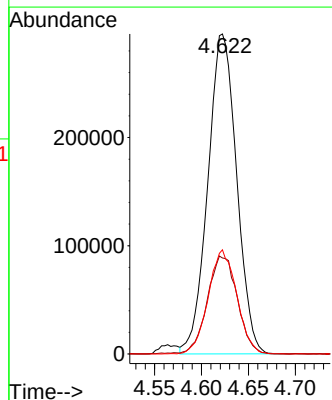
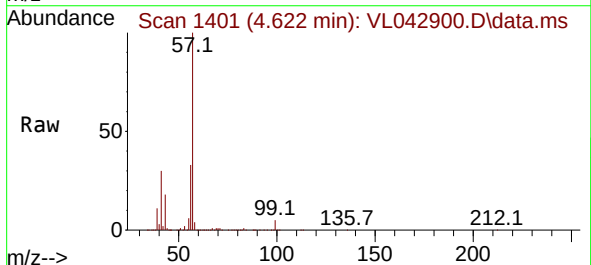
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

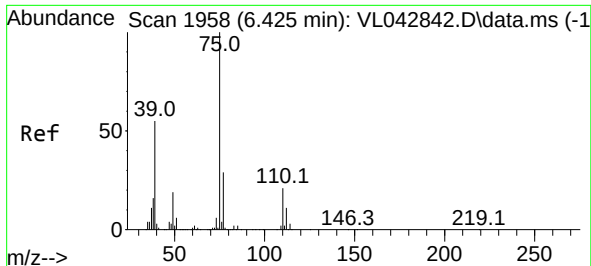
Tgt Ion: 69 Resp: 141813  
Ion Ratio Lower Upper  
69 100  
41 147.4 114.6 172.0  
100 31.5 30.2 45.4



#44  
2,2,4-Trimethylpentane  
Concen: 11.642 ppbv  
RT: 4.622 min Scan# 1401  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 57 Resp: 631245  
Ion Ratio Lower Upper  
57 100  
41 32.0 24.8 37.2  
56 32.2 25.5 38.3





#45

t-1,3-Dichloropropene

Concen: 10.411 ppbv

RT: 6.393 min Scan# 1958

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

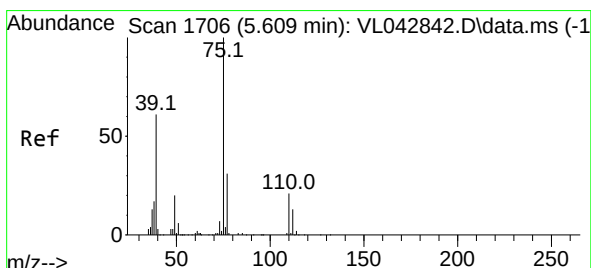
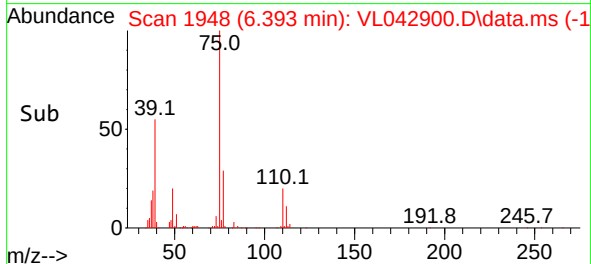
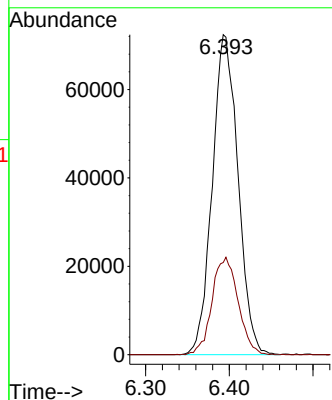
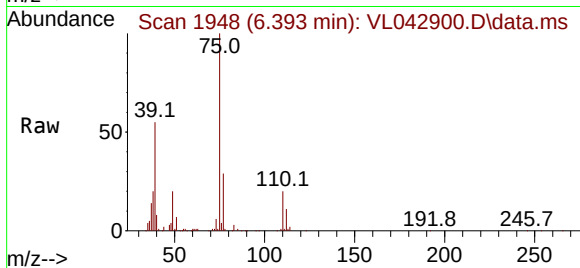
VSTDCCC010

Tgt Ion: 75 Resp: 154622

Ion Ratio Lower Upper

75 100

77 28.8 23.8 35.6



#46

cis-1,3-Dichloropropene

Concen: 10.851 ppbv

RT: 5.580 min Scan# 1697

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

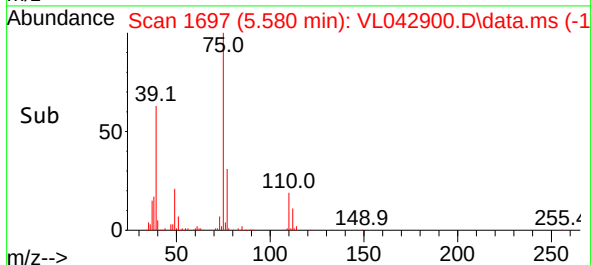
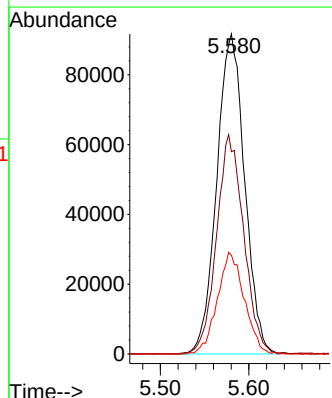
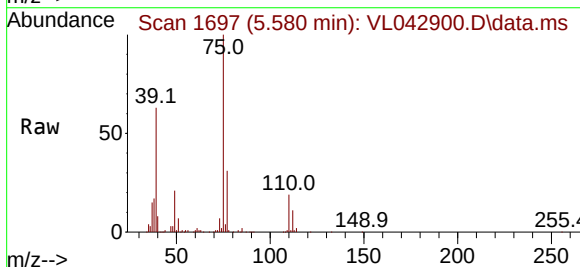
Tgt Ion: 75 Resp: 200797

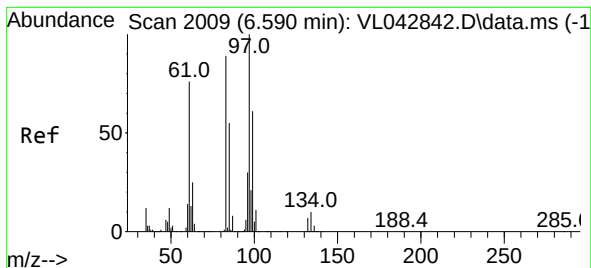
Ion Ratio Lower Upper

75 100

39 63.0 48.9 73.3

77 30.9 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 11.666 ppbv

RT: 6.561 min Scan# 2009

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

Tgt Ion: 97 Resp: 144209

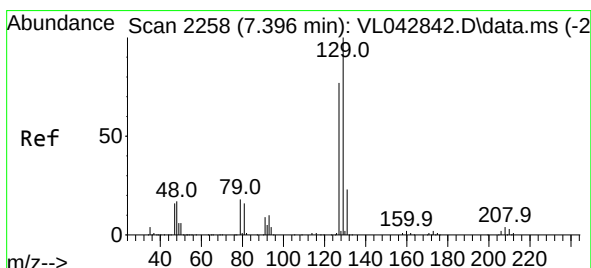
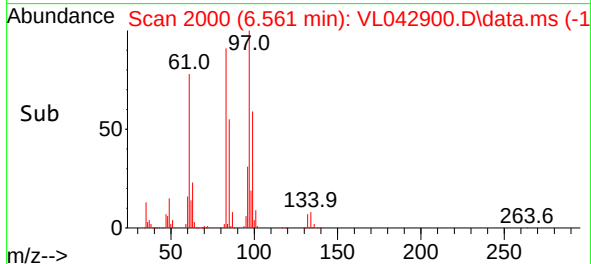
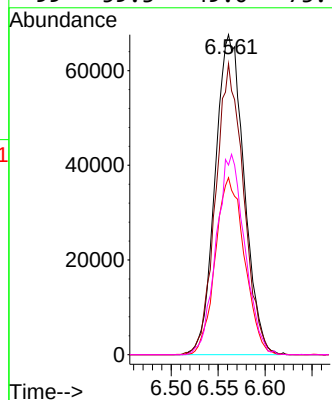
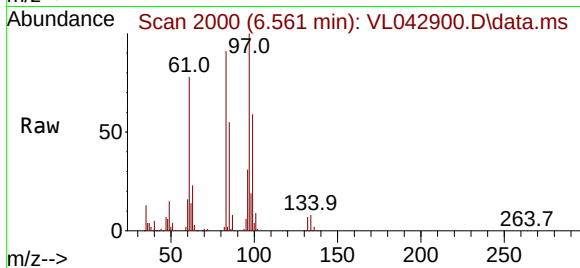
Ion Ratio Lower Upper

97 100

83 90.9 71.0 106.4

85 55.2 43.6 65.4

99 59.3 49.0 73.4



#48

Dibromochloromethane

Concen: 11.430 ppbv

RT: 7.370 min Scan# 2250

Delta R.T. 0.000 min

Lab File: VL042900.D

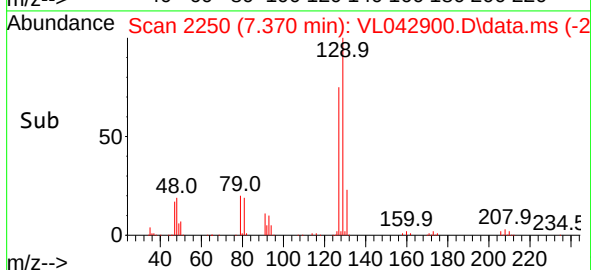
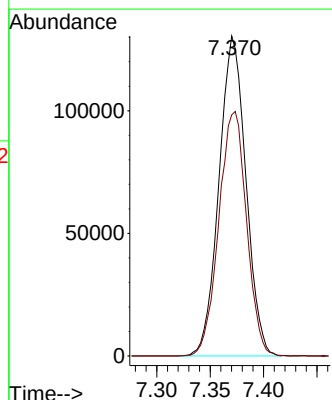
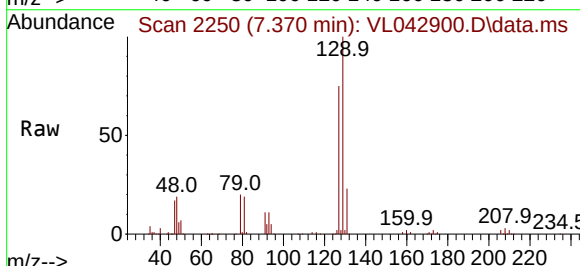
Acq: 08 Sep 2025 11:05

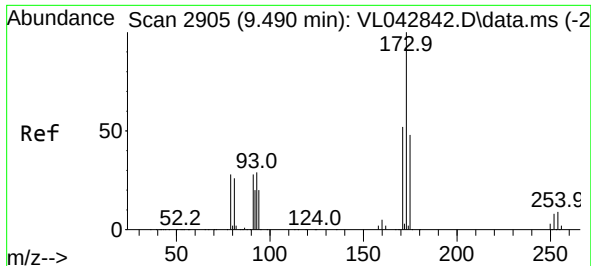
Tgt Ion: 129 Resp: 228649

Ion Ratio Lower Upper

129 100

127 78.7 39.4 118.2

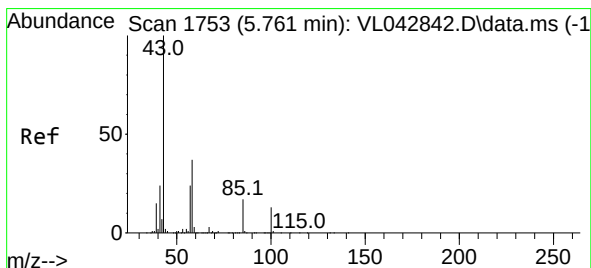
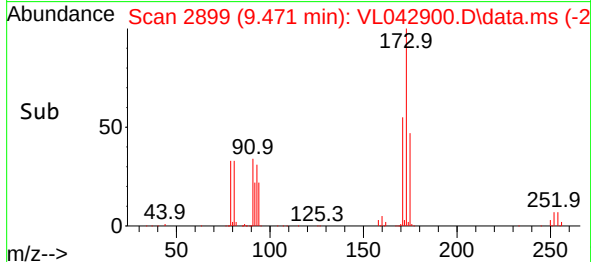
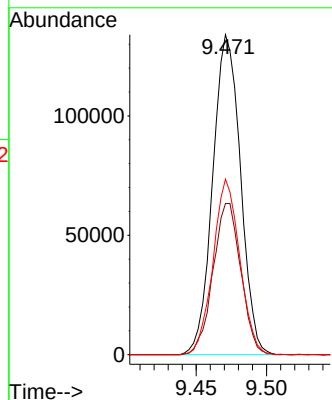
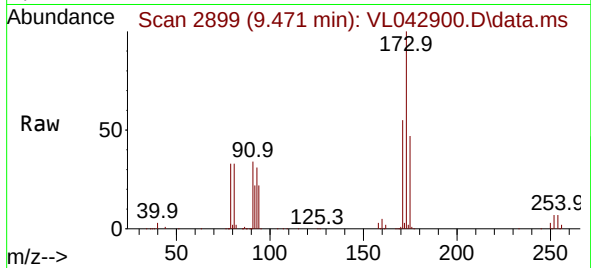




#49  
Bromoform  
Concen: 11.158 ppbv  
RT: 9.471 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

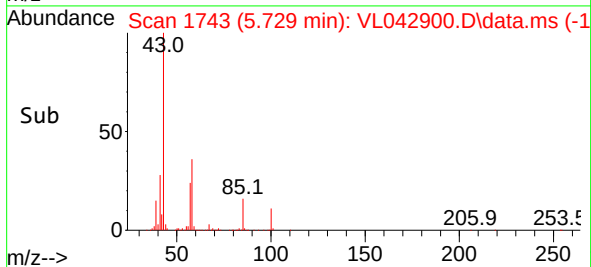
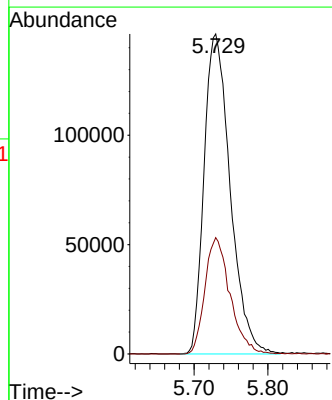
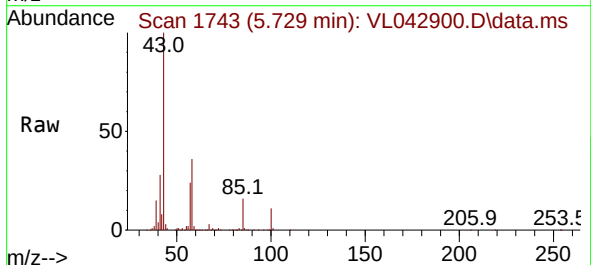
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

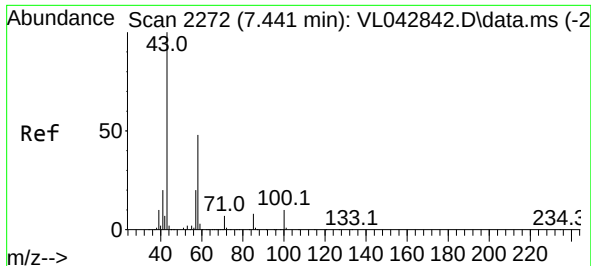
Tgt Ion:173 Resp: 184068  
Ion Ratio Lower Upper  
173 100  
175 47.4 39.2 58.8  
171 52.8 41.3 61.9



#50  
4-Methyl-2-Pentanone  
Concen: 11.801 ppbv  
RT: 5.729 min Scan# 1743  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 43 Resp: 359329  
Ion Ratio Lower Upper  
43 100  
58 35.0 29.8 44.8

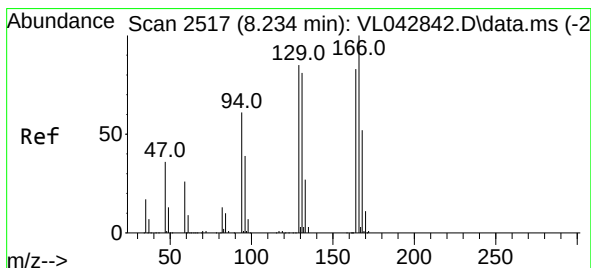
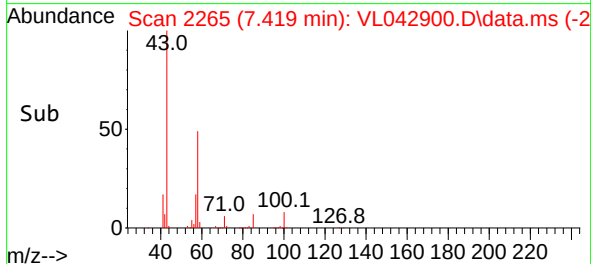
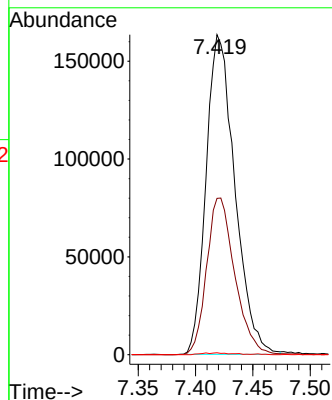
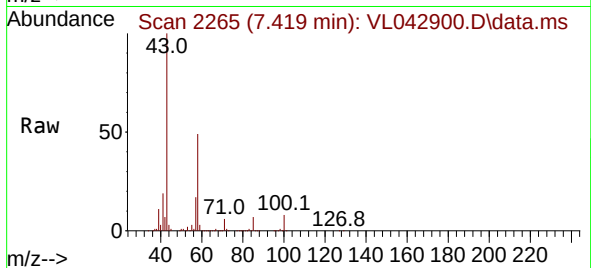




#51  
2-Hexanone  
Concen: 11.872 ppbv  
RT: 7.419 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

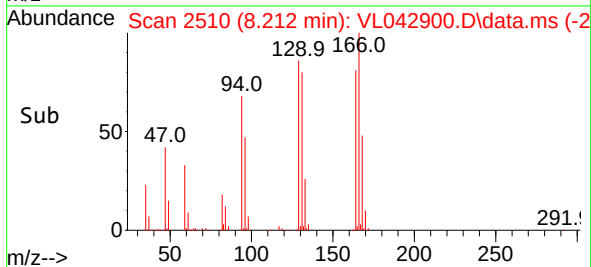
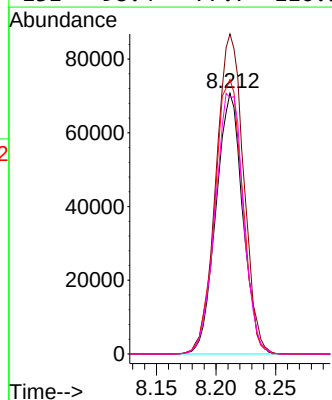
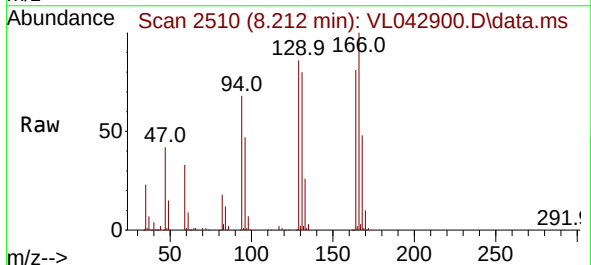
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

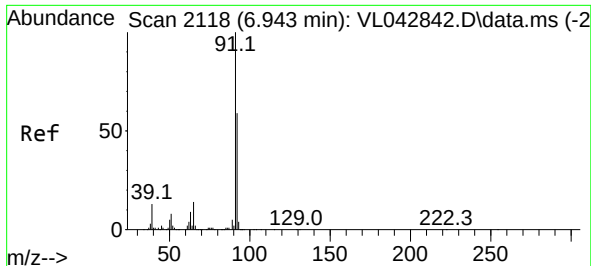
Tgt Ion: 43 Resp: 284454  
Ion Ratio Lower Upper  
43 100  
58 48.1 41.0 61.6  
98 0.7 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 9.547 ppbv  
RT: 8.212 min Scan# 2510  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 164 Resp: 110334  
Ion Ratio Lower Upper  
164 100  
166 122.8 96.5 144.7  
129 105.2 81.8 122.6  
131 98.4 77.7 116.5

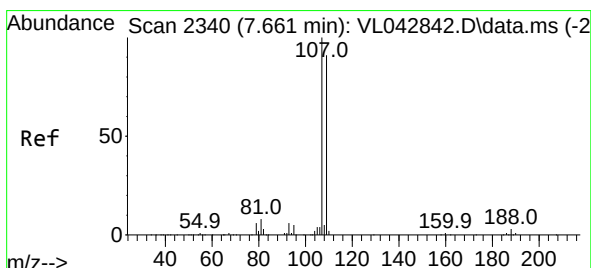
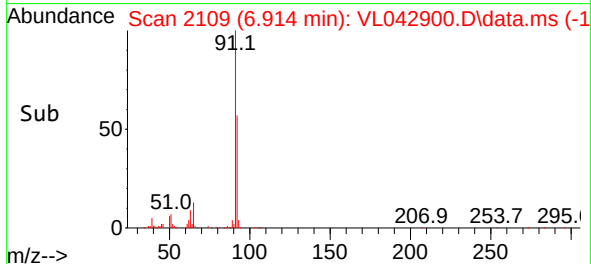
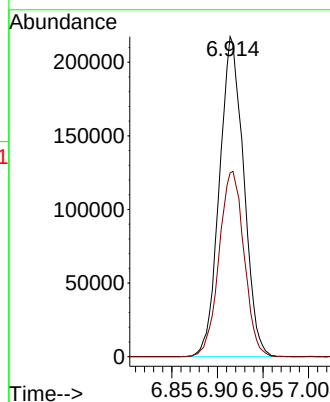
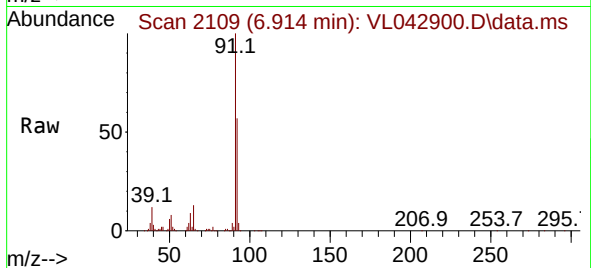




#53  
Toluene  
Concen: 10.587 ppbv  
RT: 6.914 min Scan# 2118  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

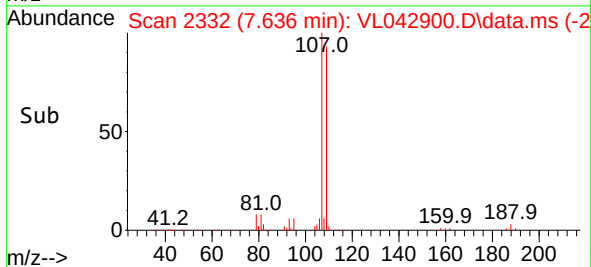
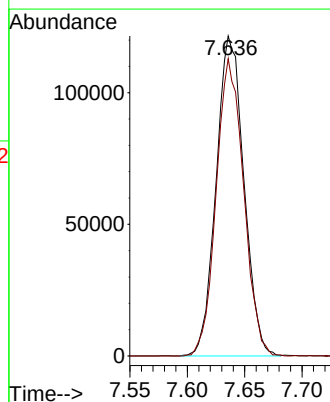
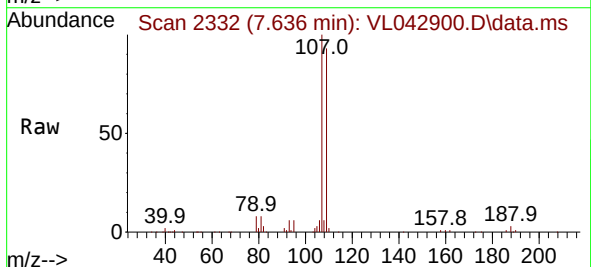
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

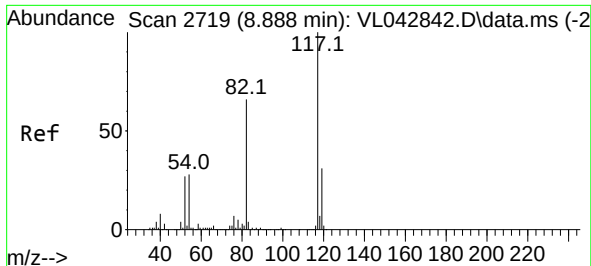
Tgt Ion: 91 Resp: 402080  
Ion Ratio Lower Upper  
91 100  
92 59.7 47.8 71.6



#54  
1,2-Dibromoethane  
Concen: 11.307 ppbv  
RT: 7.636 min Scan# 2332  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 107 Resp: 204276  
Ion Ratio Lower Upper  
107 100  
109 92.9 72.5 108.7

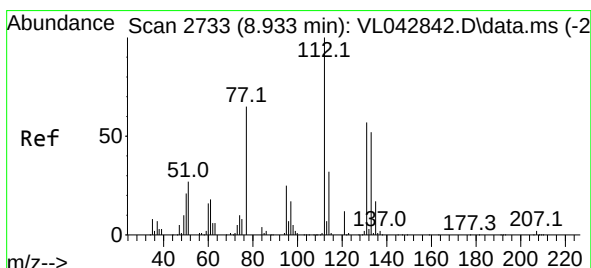
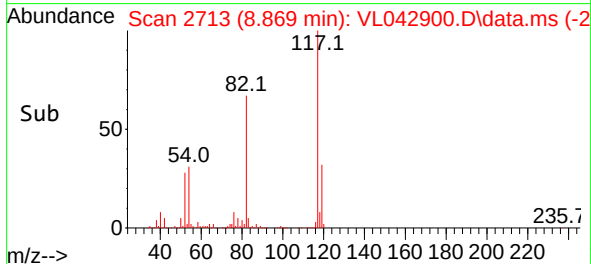
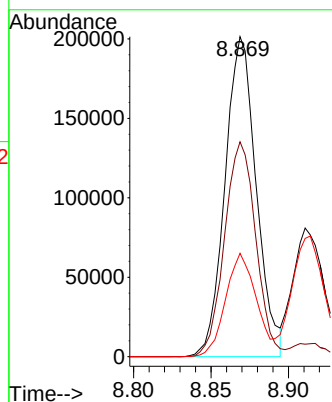
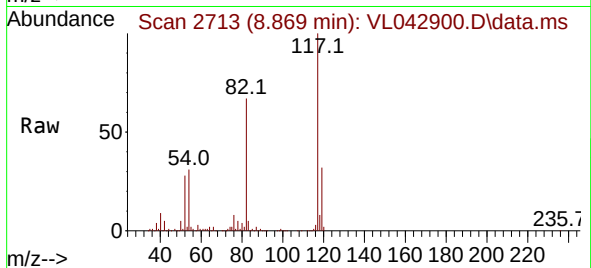




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.869 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

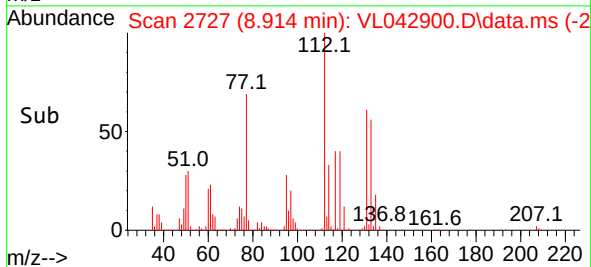
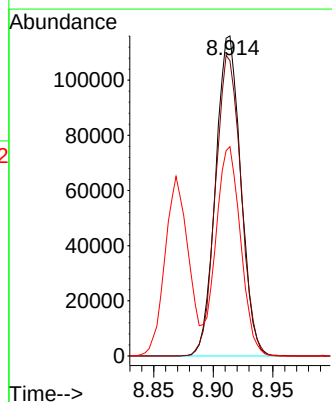
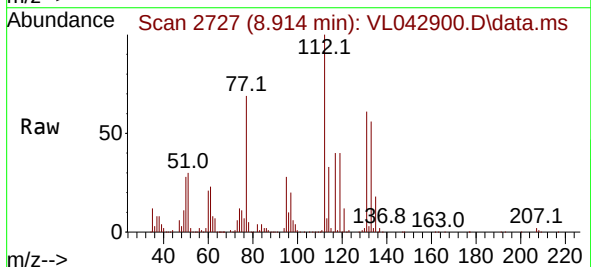
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

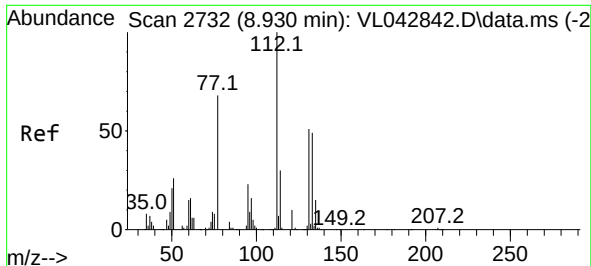
Tgt Ion:117 Resp: 282770  
Ion Ratio Lower Upper  
117 100  
82 71.7 54.6 81.8  
119 33.1 25.9 38.9



#56  
1,1,1,2-Tetrachloroethane  
Concen: 11.648 ppbv  
RT: 8.914 min Scan# 2727  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion:131 Resp: 170319  
Ion Ratio Lower Upper  
131 100  
133 95.2 77.4 116.0  
119 63.9 51.2 76.8

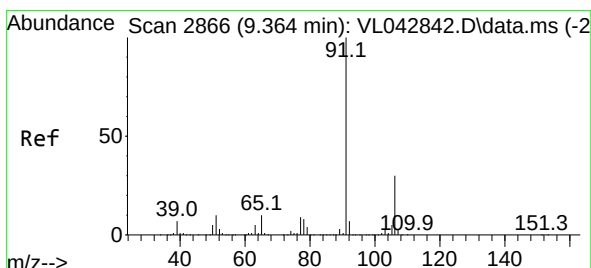
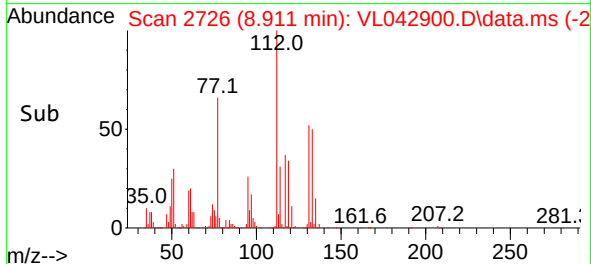
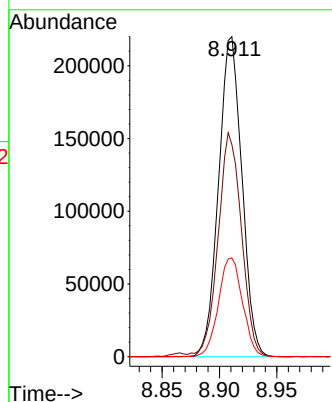
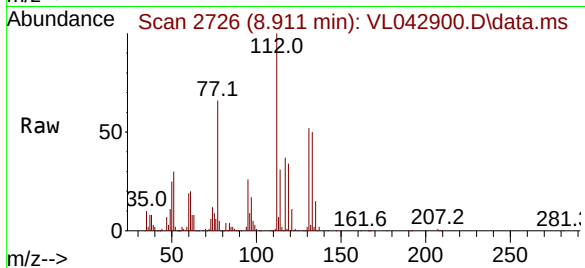




#57  
Chlorobenzene  
Concen: 11.581 ppbv  
RT: 8.911 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

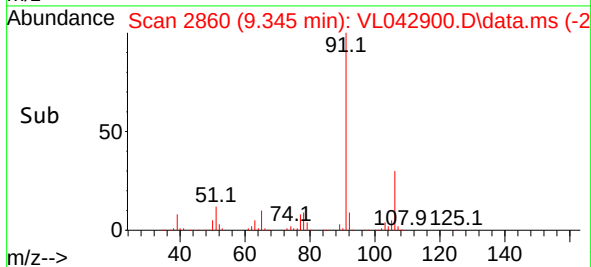
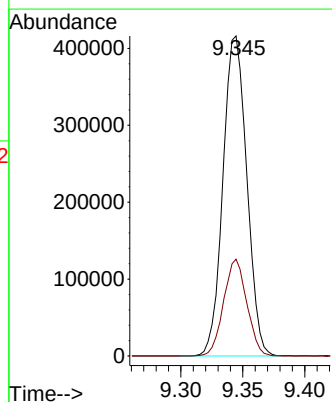
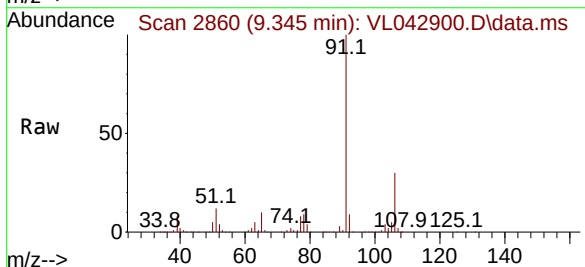
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

Tgt Ion:112 Resp: 311373  
Ion Ratio Lower Upper  
112 100  
77 66.1 55.5 83.3  
114 30.8 27.2 33.2

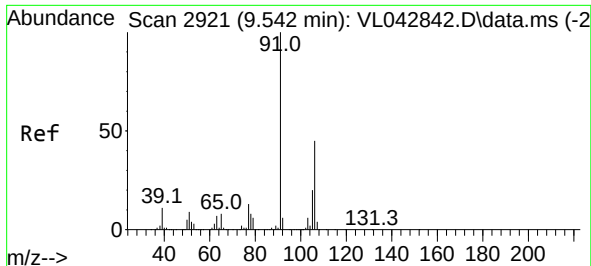


#58  
Ethyl Benzene  
Concen: 11.184 ppbv  
RT: 9.345 min Scan# 2860  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 558102  
Ion Ratio Lower Upper  
91 100  
106 30.3 23.9 35.9







#59

m/p-Xylene

Concen: 11.981 ppbv

RT: 9.539 min Scan# 2921

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_1

ClientSampleId :

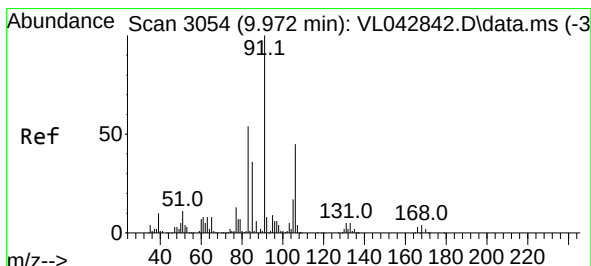
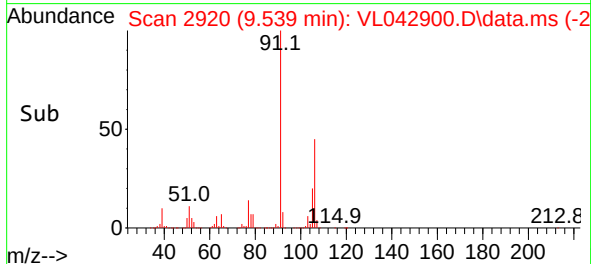
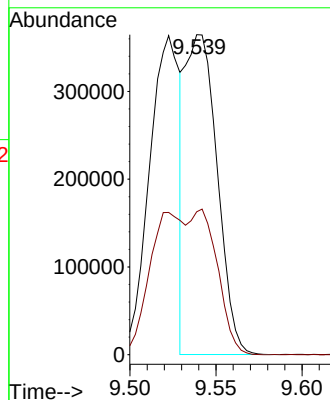
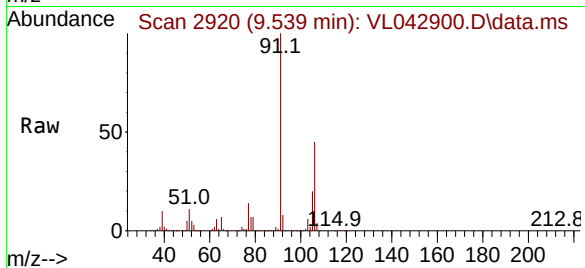
VSTDCCC010

Tgt Ion: 91 Resp: 468620

Ion Ratio Lower Upper

91 100

106 89.4 0.0 0.0#



#60

o-Xylene

Concen: 11.716 ppbv

RT: 9.953 min Scan# 3048

Delta R.T. 0.000 min

Lab File: VL042900.D

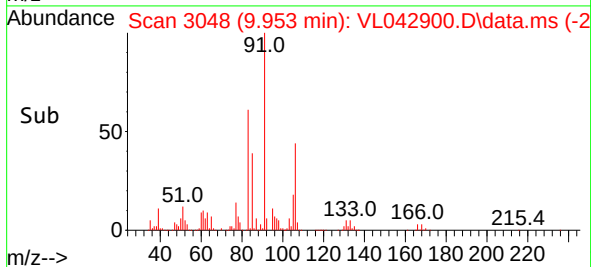
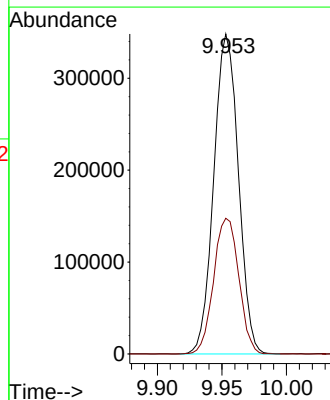
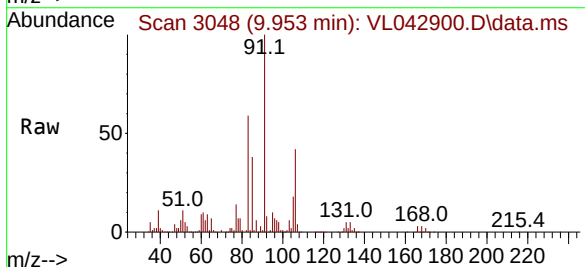
Acq: 08 Sep 2025 11:05

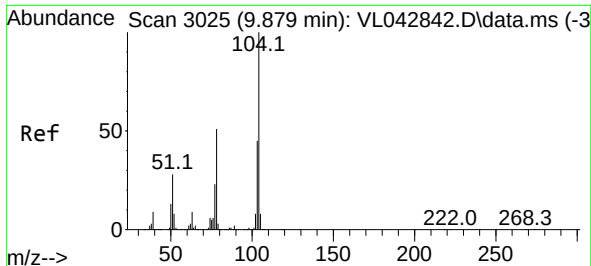
Tgt Ion: 91 Resp: 460968

Ion Ratio Lower Upper

91 100

106 43.4 21.8 65.4

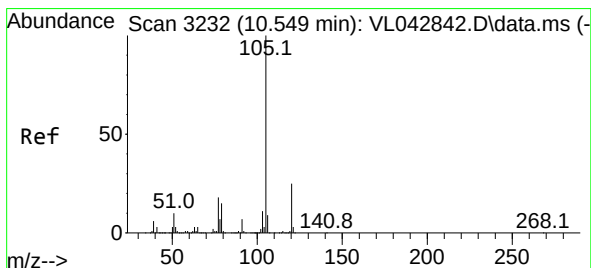
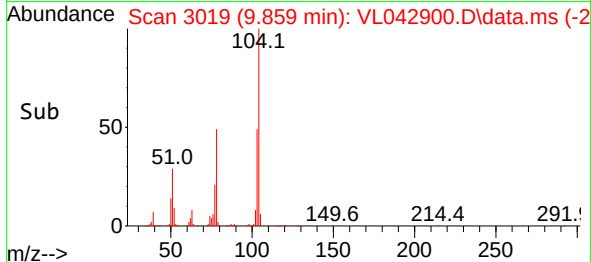
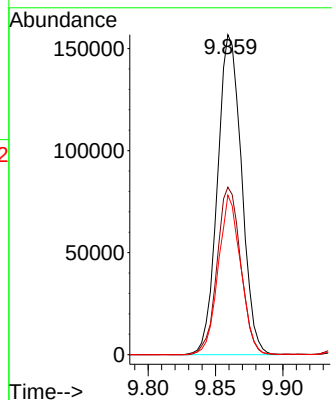
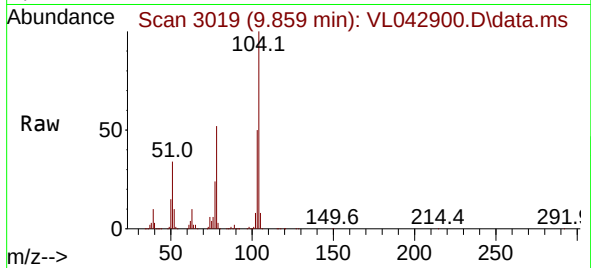




#61  
Styrene  
Concen: 10.579 ppbv  
RT: 9.859 min Scan# 3025  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

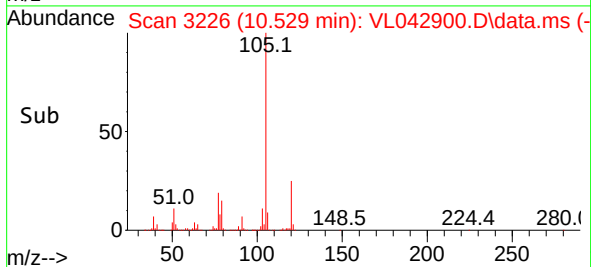
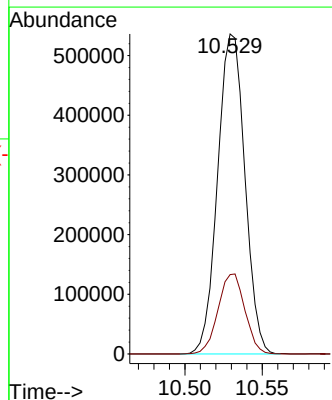
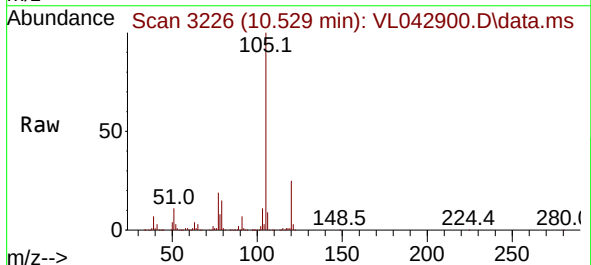
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

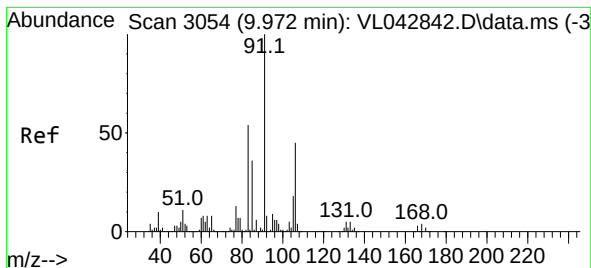
Tgt Ion:104 Resp: 195007  
Ion Ratio Lower Upper  
104 100  
78 51.3 40.6 61.0  
103 46.6 37.7 56.5



#62  
Isopropylbenzene  
Concen: 11.394 ppbv  
RT: 10.529 min Scan# 3226  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 655164  
Ion Ratio Lower Upper  
105 100  
120 24.5 20.6 30.8

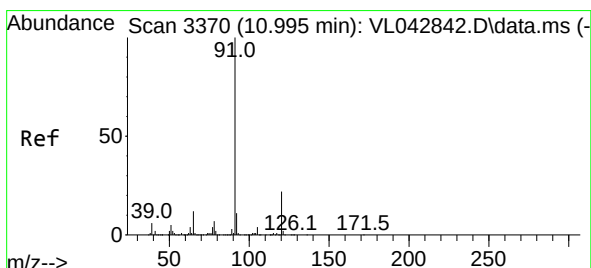
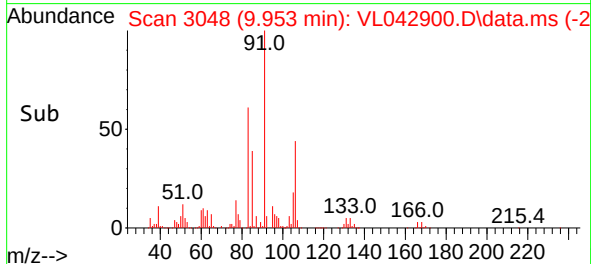
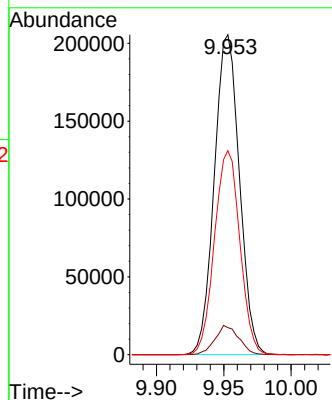
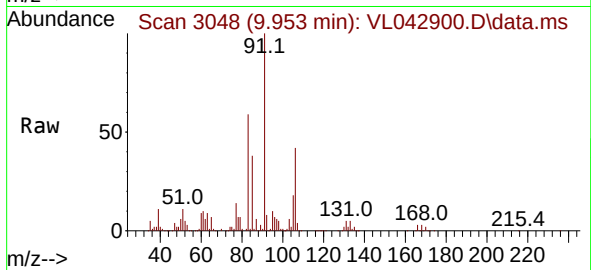




#63  
1,1,2,2-Tetrachloroethane  
Concen: 12.314 ppbv  
RT: 9.953 min Scan# 3048  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

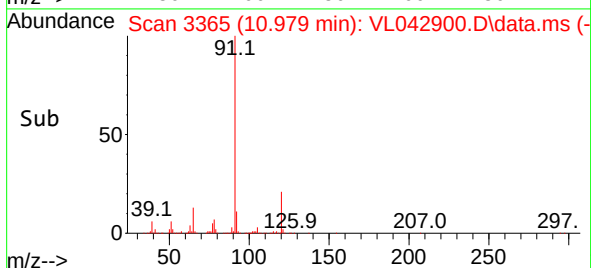
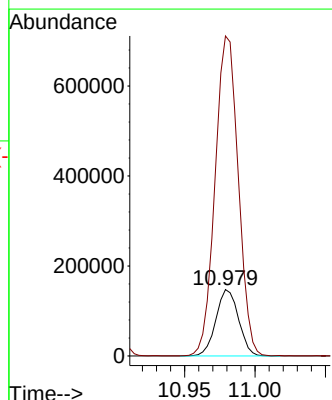
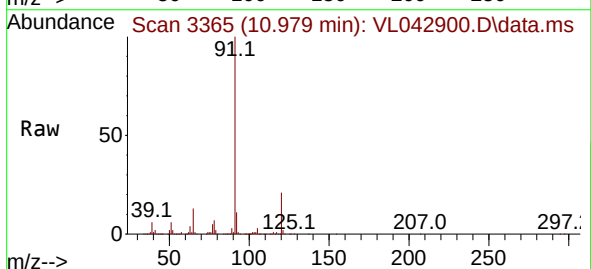
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

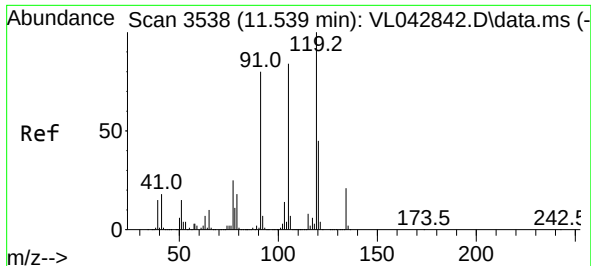
Tgt Ion: 83 Resp: 266435  
Ion Ratio Lower Upper  
83 100  
131 8.7 4.8 14.3  
85 64.5 32.3 96.8



#64  
n-propylbenzene  
Concen: 11.220 ppbv  
RT: 10.979 min Scan# 3365  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 120 Resp: 164610  
Ion Ratio Lower Upper  
120 100  
91 495.9 375.8 563.6

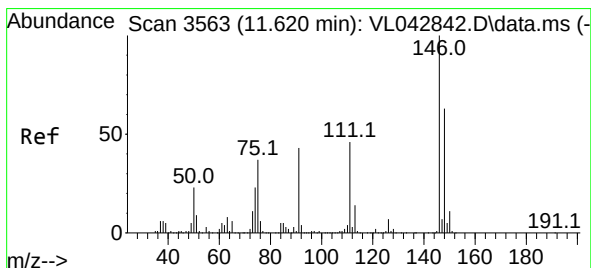
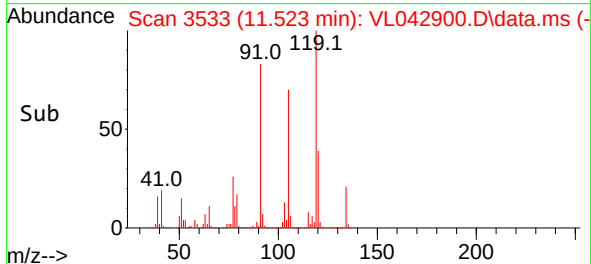
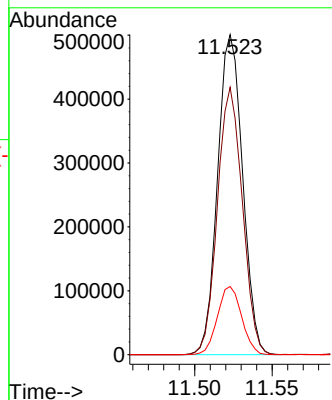
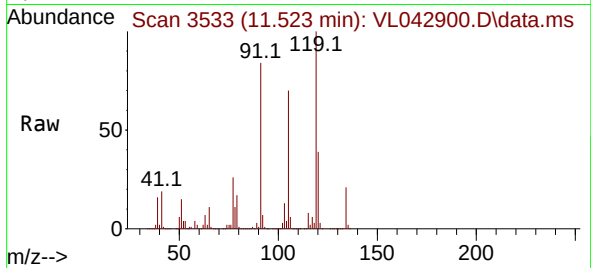




#65  
tert-Butylbenzene  
Concen: 11.075 ppbv  
RT: 11.523 min Scan# 3533  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

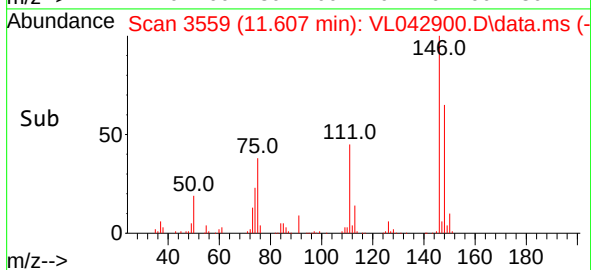
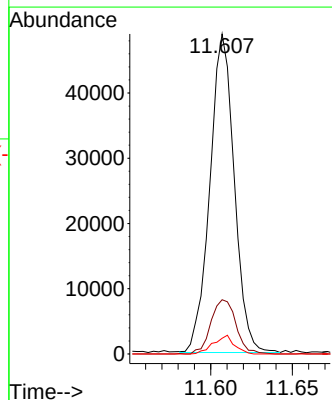
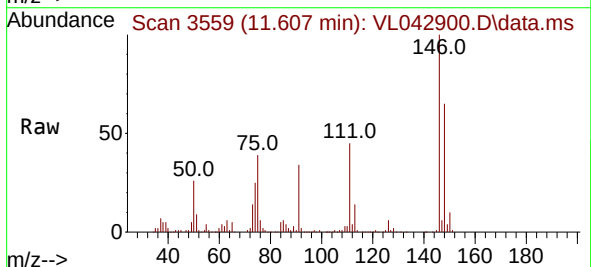
Instrument :  
MSVOA\_L  
ClientSampleId :  
VSTDCCC010

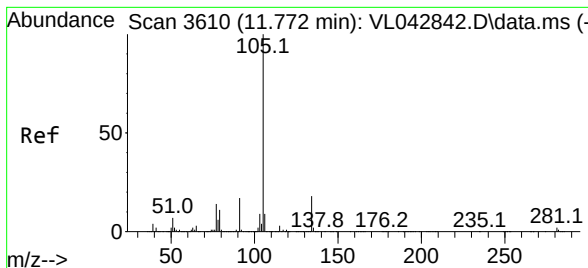
Tgt Ion:119 Resp: 561409  
Ion Ratio Lower Upper  
119 100  
91 83.4 63.9 95.9  
134 20.6 17.0 25.4



#66  
Benzyl Chloride  
Concen: 7.895 ppbv  
RT: 11.607 min Scan# 3559  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 91 Resp: 50803  
Ion Ratio Lower Upper  
91 100  
126 17.5 14.2 21.4  
128 5.0 5.0 7.6#

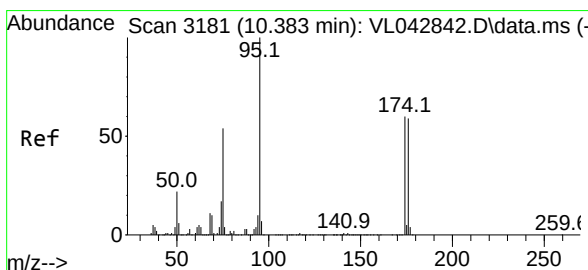
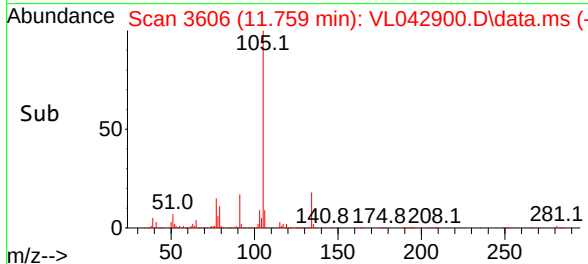
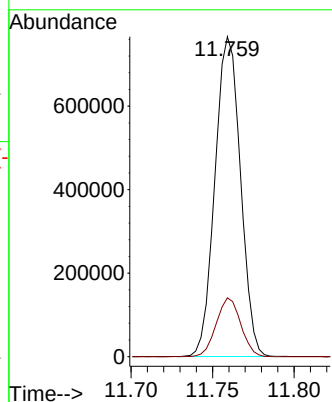
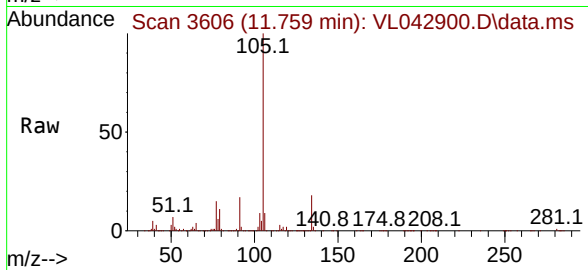




#67  
 sec-Butylbenzene  
 Concen: 11.709 ppbv  
 RT: 11.759 min Scan# 3606  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

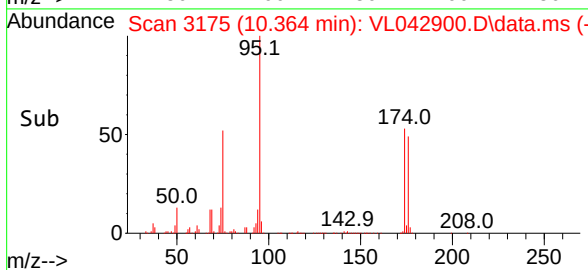
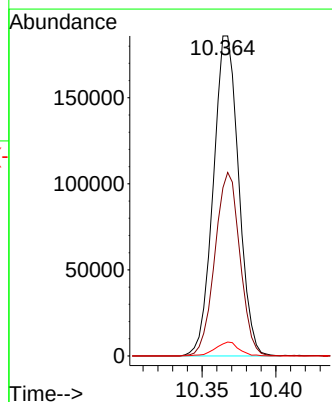
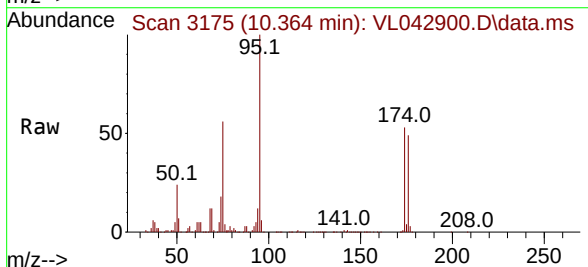
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

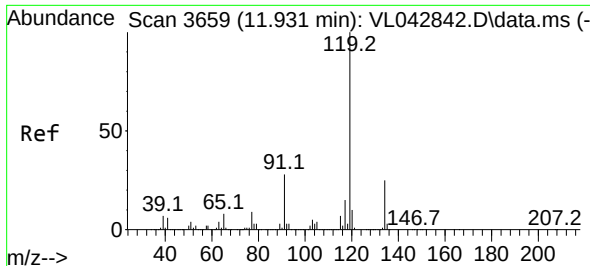
Tgt Ion:105 Resp: 833114  
 Ion Ratio Lower Upper  
 105 100  
 134 17.7 14.9 22.3



#68  
 1-Bromo-4-Fluorobenzene  
 Concen: 10.483 ppbv  
 RT: 10.364 min Scan# 3175  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

Tgt Ion: 95 Resp: 222314  
 Ion Ratio Lower Upper  
 95 100  
 174 56.8 48.4 72.6  
 175 4.1 3.8 5.8

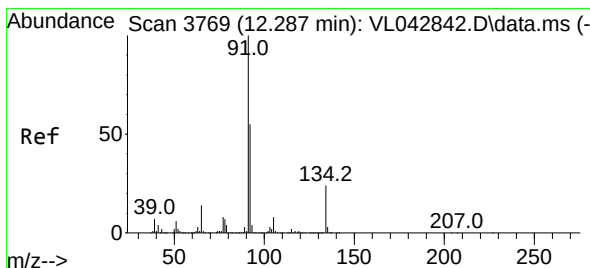
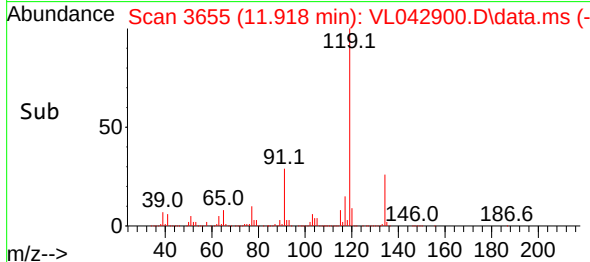
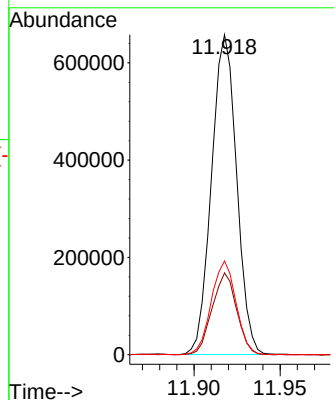
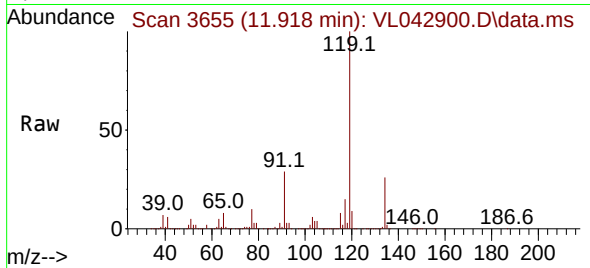




#69  
 p-Isopropyltoluene  
 Concen: 10.929 ppbv  
 RT: 11.918 min Scan# 3655  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

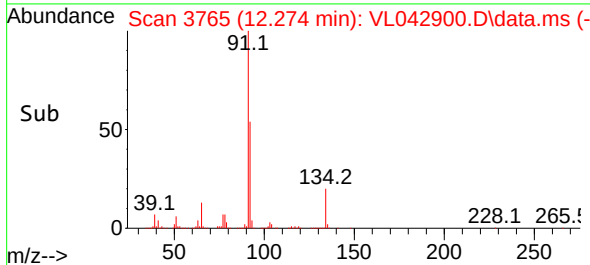
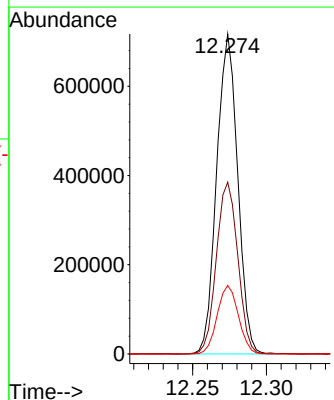
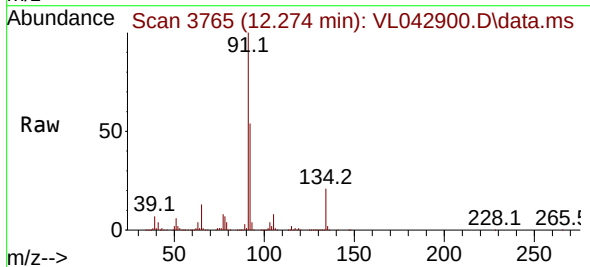
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VSTDCCC010

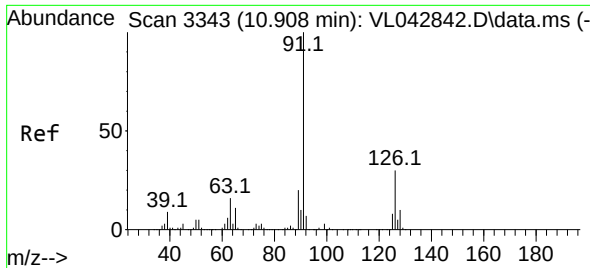
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 119   | Resp: | 667558 |
| Ion      | Ratio | Lower | Upper  |
| 119      | 100   |       |        |
| 134      | 25.1  | 20.6  | 30.8   |
| 91       | 29.0  | 22.6  | 34.0   |



#70  
 n-Butylbenzene  
 Concen: 11.736 ppbv  
 RT: 12.274 min Scan# 3765  
 Delta R.T. 0.000 min  
 Lab File: VL042900.D  
 Acq: 08 Sep 2025 11:05

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 91    | Resp: | 711012 |
| Ion      | Ratio | Lower | Upper  |
| 91       | 100   |       |        |
| 92       | 54.7  | 44.6  | 66.8   |
| 134      | 21.6  | 19.0  | 28.4   |

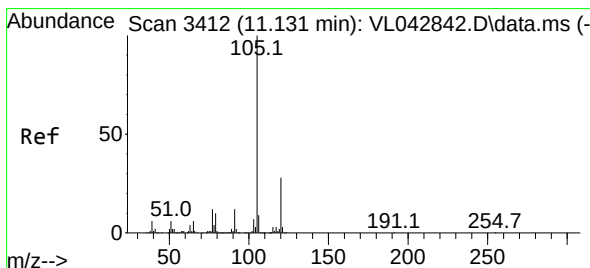
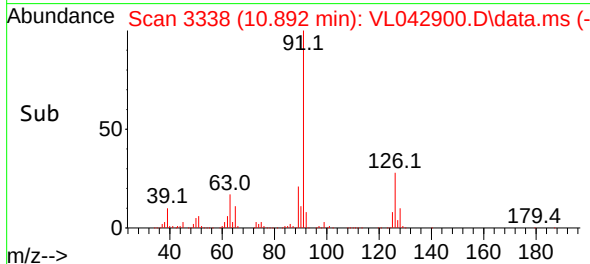
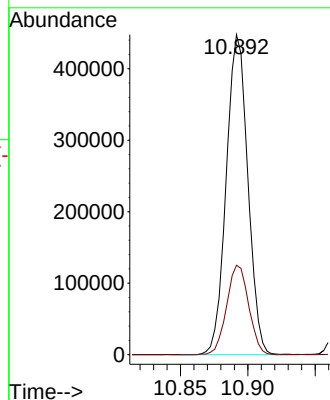
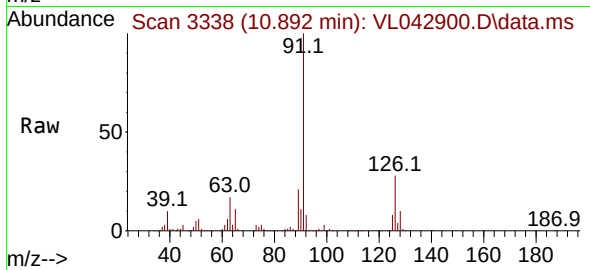




#71  
2-Chlorotoluene  
Concen: 11.156 ppbv  
RT: 10.892 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

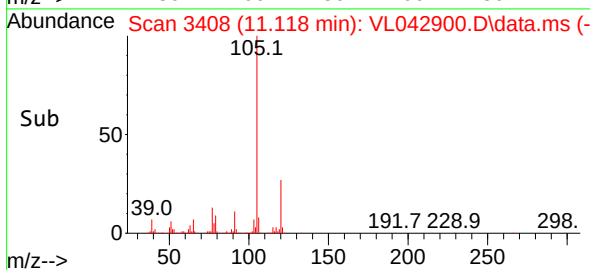
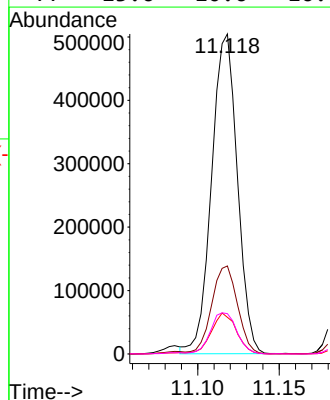
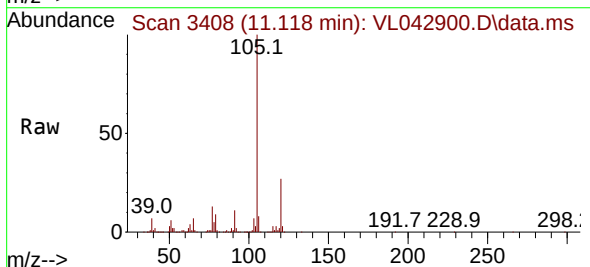
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

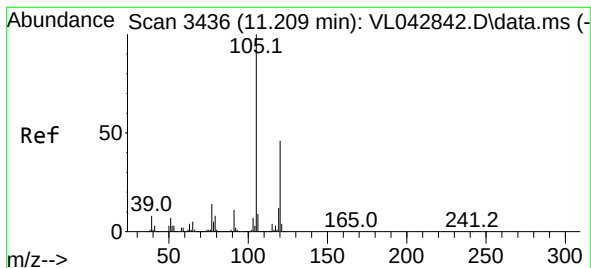
Tgt Ion: 91 Resp: 498072  
Ion Ratio Lower Upper  
91 100  
126 28.5 12.0 47.8



#72  
4-Ethyltoluene  
Concen: 11.624 ppbv  
RT: 11.118 min Scan# 3408  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion: 105 Resp: 554411  
Ion Ratio Lower Upper  
105 100  
120 28.3 23.4 35.2  
91 12.9 9.8 14.6  
77 13.6 10.6 16.0





#73

1,3,5-Trimethylbenzene

Concen: 11.105 ppbv

RT: 11.196 min Scan# 34

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

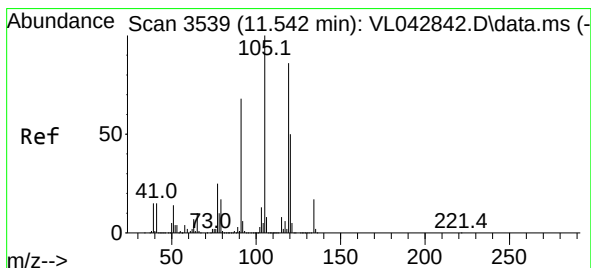
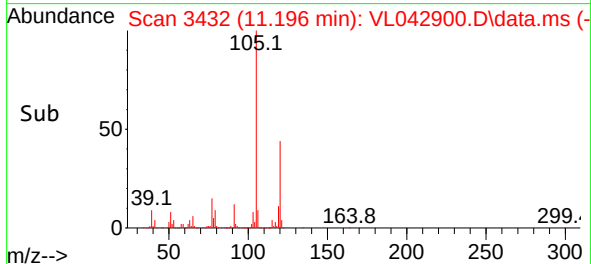
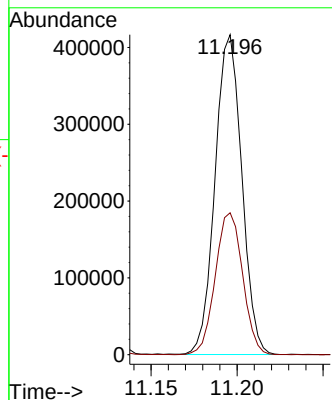
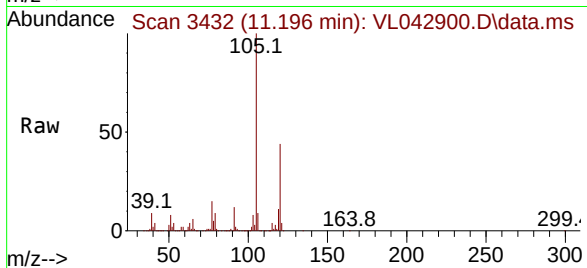
VSTDCCC010

Tgt Ion:105 Resp: 450409

Ion Ratio Lower Upper

105 100

120 44.3 36.6 54.8



#74

1,2,4-Trimethylbenzene

Concen: 11.424 ppbv

RT: 11.529 min Scan# 3535

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Tgt Ion:105 Resp: 508605

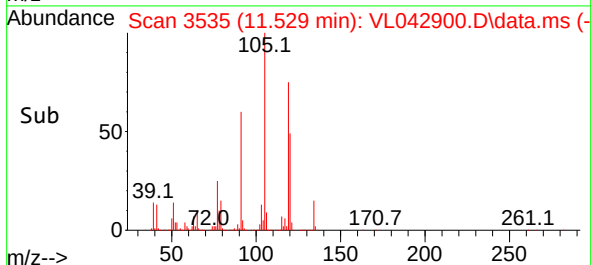
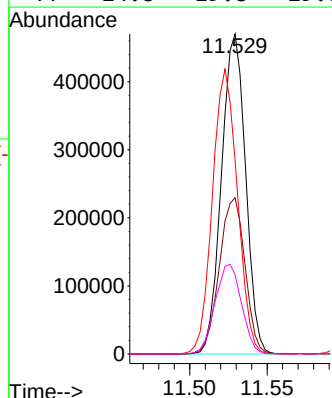
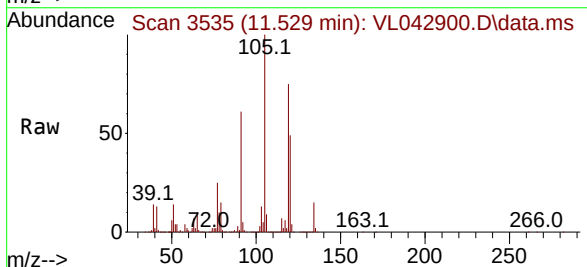
Ion Ratio Lower Upper

105 100

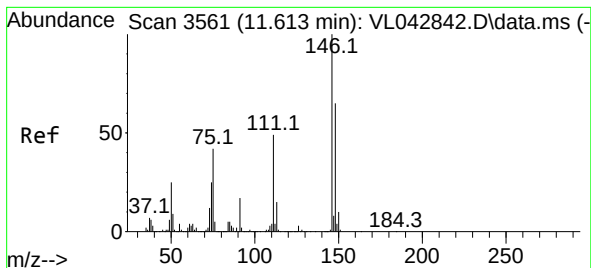
120 48.8 39.8 59.6

91 60.5 54.2 81.4

77 24.8 19.8 29.6







#75

1,3-Dichlorobenzene

Concen: 11.445 ppbv

RT: 11.597 min Scan# 3556

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_1

ClientSampleId :

VSTDCCC010

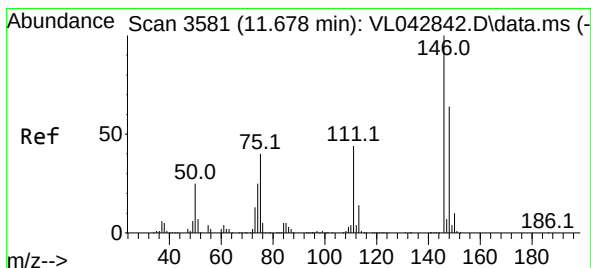
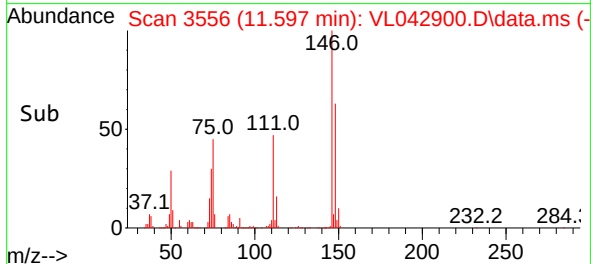
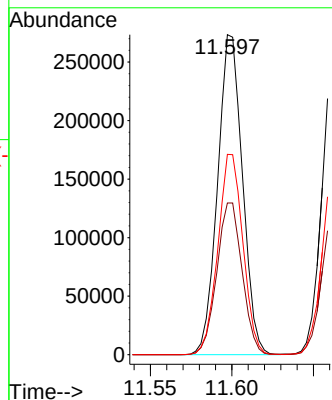
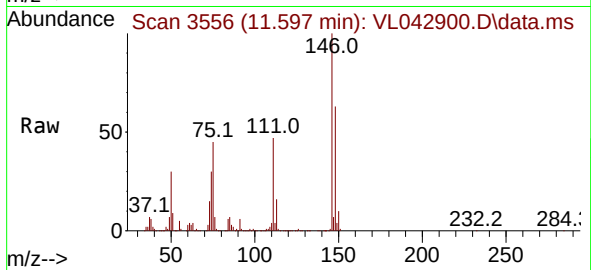
Tgt Ion:146 Resp: 289650

Ion Ratio Lower Upper

146 100

111 48.4 23.9 71.7

148 63.1 31.4 94.0



#76

1,4-Dichlorobenzene

Concen: 11.226 ppbv

RT: 11.662 min Scan# 3576

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

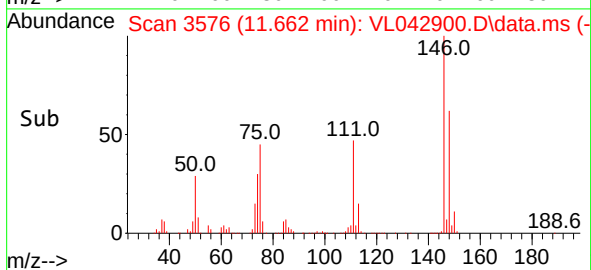
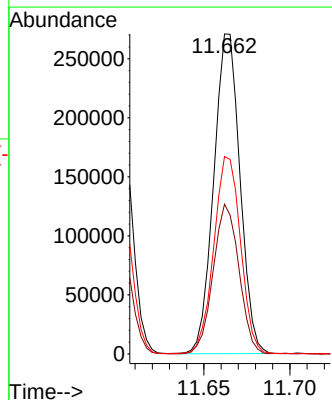
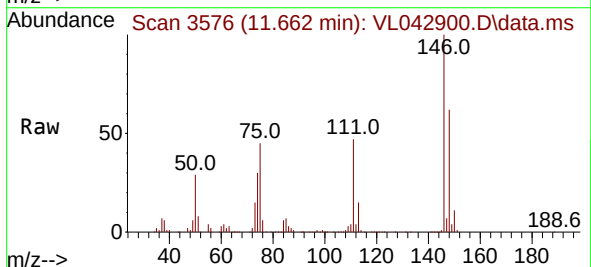
Tgt Ion:146 Resp: 287352

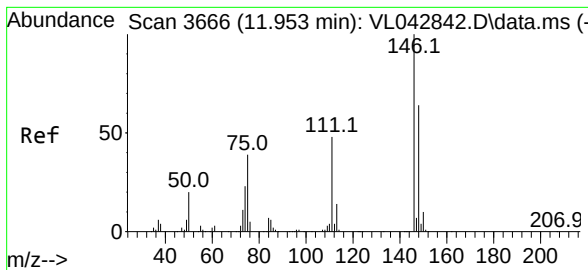
Ion Ratio Lower Upper

146 100

111 46.3 22.7 68.1

148 63.2 31.8 95.3

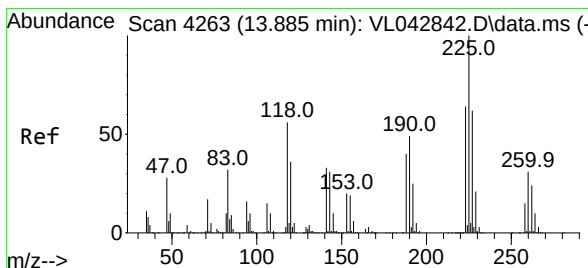
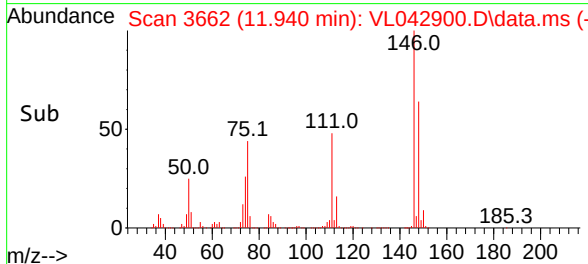
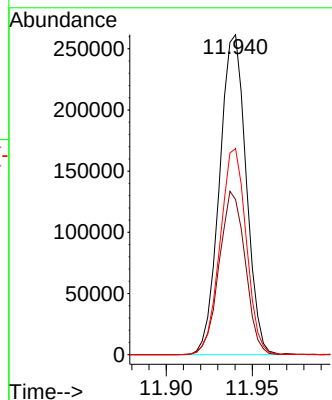
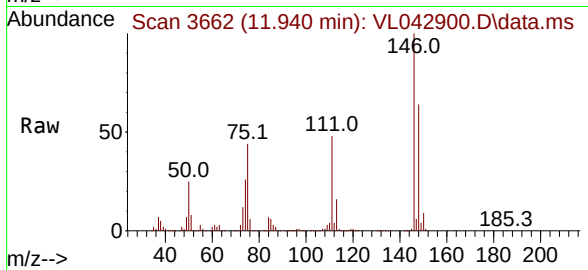




#77  
1,2-Dichlorobenzene  
Concen: 11.351 ppbv  
RT: 11.940 min Scan# 3662  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

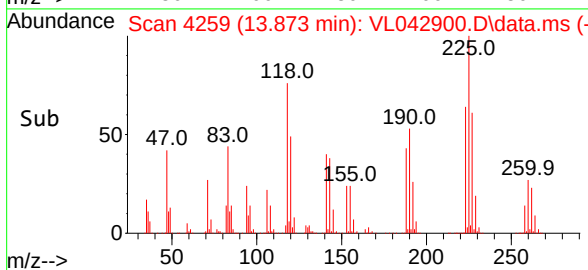
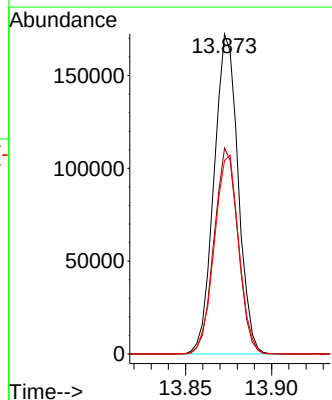
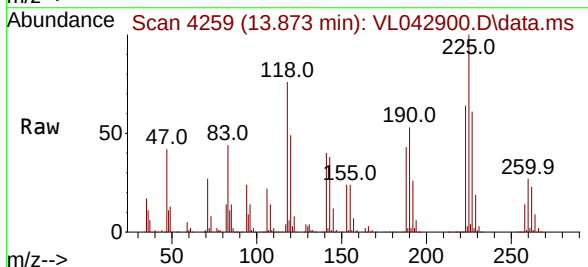
Instrument :  
MSVOA\_1  
ClientSampleId :  
VSTDCCC010

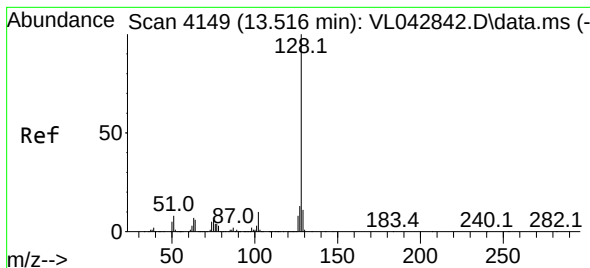
Tgt Ion:146 Resp: 281307  
Ion Ratio Lower Upper  
146 100  
111 50.0 24.6 74.0  
148 63.5 32.0 96.0



#78  
Hexachloro-1,3-Butadiene  
Concen: 8.266 ppbv  
RT: 13.873 min Scan# 4259  
Delta R.T. 0.000 min  
Lab File: VL042900.D  
Acq: 08 Sep 2025 11:05

Tgt Ion:225 Resp: 167893  
Ion Ratio Lower Upper  
225 100  
223 63.8 51.4 77.2  
227 63.3 51.9 77.9





#79

Naphthalene

Concen: 10.613 ppbv

RT: 13.504 min Scan# 4145

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010

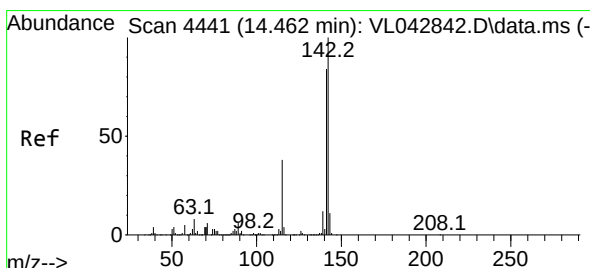
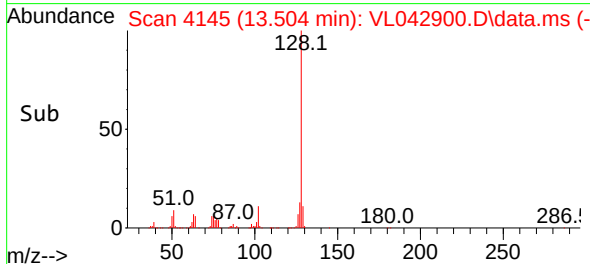
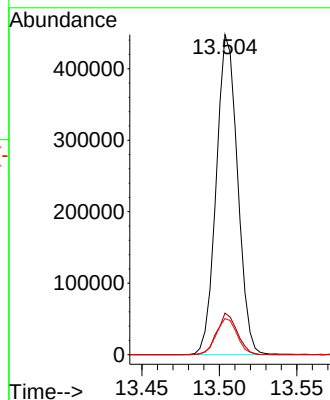
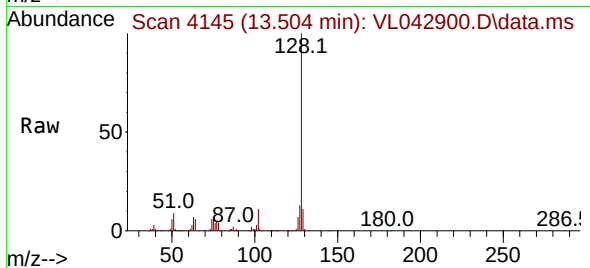
Tgt Ion:128 Resp: 428355

Ion Ratio Lower Upper

128 100

127 13.0 10.6 16.0

129 11.3 8.9 13.3



#80

Naphthalene,2-methyl-

Concen: 8.470 ppbv

RT: 14.449 min Scan# 4437

Delta R.T. 0.000 min

Lab File: VL042900.D

Acq: 08 Sep 2025 11:05

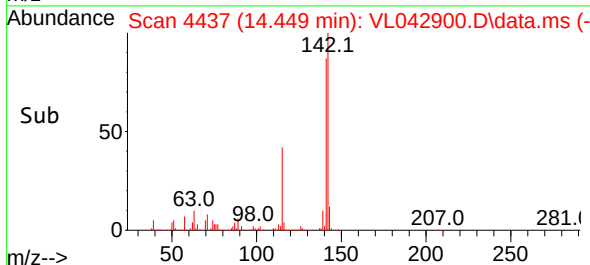
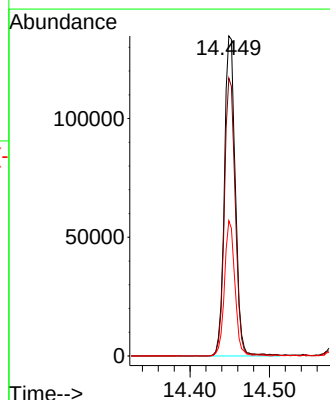
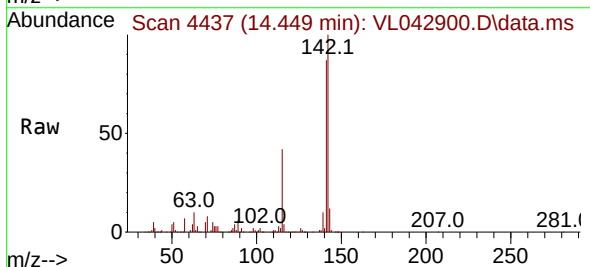
Tgt Ion:142 Resp: 127751

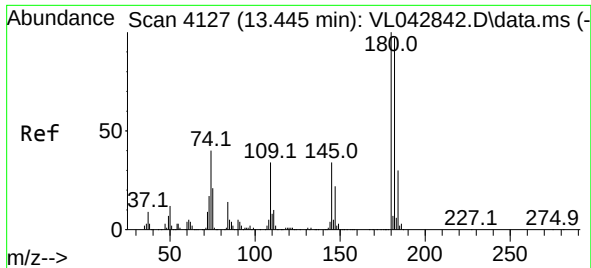
Ion Ratio Lower Upper

142 100

141 87.4 67.0 100.6

115 40.4 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 10.226 ppbv

RT: 13.432 min Scan# 41

Delta R.T. 0.000 min

Lab File: VL042900.D

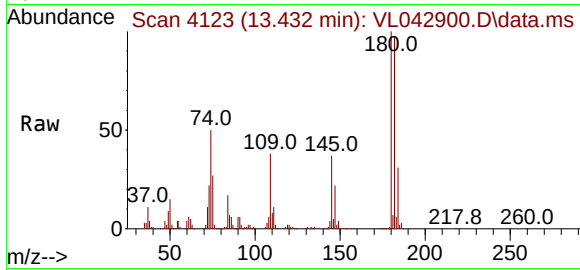
Acq: 08 Sep 2025 11:05

Instrument :

MSVOA\_L

ClientSampleId :

VSTDCCC010



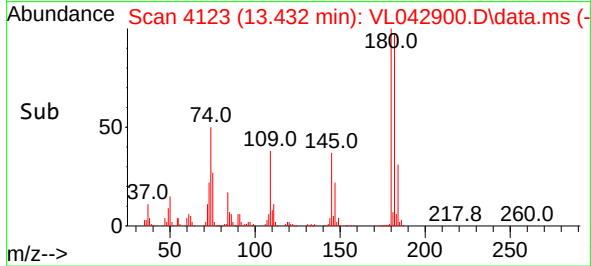
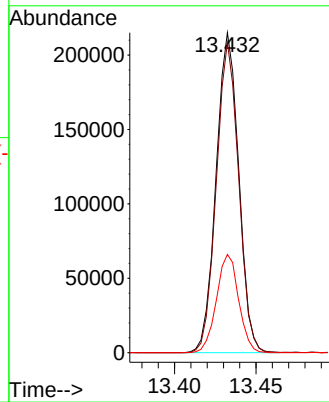
Tgt Ion:180 Resp: 207455

Ion Ratio Lower Upper

180 100

182 95.4 76.9 115.3

184 30.0 24.5 36.7



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042902.D  
 Acq On : 08 Sep 2025 13:35  
 Operator : SY/MD  
 Sample : VL0908ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01

Quant Time: Sep 09 00:55:51 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 09 00:52:26 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.781 | 49   | 139945   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.946 | 114  | 365857   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.872 | 117  | 306385   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds  
 68) 1-Bromo-4-Fluorobenzene 10.367 95 240840 10.481 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 104.800%

| Target Compounds              | Qvalue |     |        |        |        |    |
|-------------------------------|--------|-----|--------|--------|--------|----|
| 2) Dichlorodifluoromethane    | 1.492  | 85  | 220085 | 10.731 | ppbv   | 99 |
| 3) Chlorodifluoromethane      | 1.470  | 51  | 263595 | 11.627 | ppbv   | 98 |
| 4) Chloromethane              | 1.528  | 50  | 84783  | 10.244 | ppbv   | 99 |
| 5) Vinyl Chloride             | 1.577  | 62  | 78545  | 9.636  | ppbv   | 99 |
| 6) Bromomethane               | 1.664  | 94  | 31405  | 9.636  | ppbv   | 96 |
| 7) Chloroethane               | 1.700  | 64  | 30810  | 9.679  | ppbv   | 94 |
| 8) Dichlorotetrafluoroethane  | 1.551  | 85  | 175617 | 10.464 | ppbv   | 96 |
| 9) Propene                    | 1.881  | 41  | 9206   | 0.940  | ppbv   | 99 |
| 10) Heptane                   | 4.965  | 43  | 256593 | 9.785  | ppbv   | 99 |
| 11) Trichlorofluoromethane    | 1.871  | 101 | 206104 | 10.185 | ppbv   | 98 |
| 12) 1,1,2-Trichlorotrifluo... | 2.133  | 101 | 164464 | 10.197 | ppbv   | 96 |
| 13) Ethanol                   | 1.716  | 45  | 7225   | 8.071  | ppbv   | 92 |
| 14) Bromoethene               | 1.777  | 108 | 58442  | 10.009 | ppbv   | 99 |
| 15) Acetone                   | 1.829  | 43  | 156147 | 8.435  | ppbv   | 99 |
| 16) 1,3-Butadiene             | 1.606  | 39  | 77632  | 9.250  | ppbv   | 97 |
| 17) tert-Butyl alcohol        | 2.036  | 59  | 176056 | 8.020  | ppbv   | 99 |
| 18) 1,1-Dichloroethene        | 2.026  | 96  | 68830  | 9.707  | ppbv   | 97 |
| 19) Isopropyl Alcohol         | 1.881  | 45  | 97198  | 8.791  | ppbv   | 93 |
| 20) Methylene Chloride        | 2.056  | 84  | 62334  | 8.038  | ppbv   | 93 |
| 21) Allyl Chloride            | 2.091  | 41  | 125191 | 9.573  | ppbv   | 94 |
| 22) trans-1,2-Dichloroethene  | 2.334  | 96  | 82077  | 10.005 | ppbv   | 98 |
| 23) Vinyl Acetate             | 2.454  | 43  | 270676 | 10.634 | ppbv # | 99 |
| 24) 1,1-Dichloroethane        | 2.402  | 63  | 164910 | 10.066 | ppbv   | 99 |
| 25) Ethyl Acetate             | 2.826  | 43  | 458640 | 10.237 | ppbv   | 99 |
| 26) Hexane                    | 2.816  | 57  | 207705 | 10.043 | ppbv   | 95 |
| 27) Carbon Disulfide          | 2.143  | 76  | 206751 | 10.273 | ppbv   | 98 |
| 28) Methyl tert-Butyl Ether   | 2.431  | 73  | 95768  | 9.082  | ppbv   | 93 |
| 29) Chloroform                | 2.839  | 83  | 311859 | 10.562 | ppbv   | 97 |
| 30) Cyclohexane               | 3.845  | 84  | 169353 | 9.340  | ppbv   | 96 |
| 31) cis-1,2-Dichloroethene    | 2.713  | 61  | 202349 | 9.796  | ppbv   | 97 |
| 32) 1,1,1-Trichloroethane     | 3.357  | 97  | 293618 | 9.409  | ppbv   | 96 |
| 34) 2-Butanone                | 2.551  | 43  | 298071 | 12.066 | ppbv   | 98 |
| 35) Carbon Tetrachloride      | 3.748  | 117 | 297085 | 11.779 | ppbv   | 98 |
| 36) Benzene                   | 3.645  | 78  | 407263 | 11.625 | ppbv   | 99 |
| 37) 1,2-Dichloroethane        | 3.208  | 62  | 232809 | 12.720 | ppbv   | 99 |
| 38) Trichloroethene           | 4.532  | 130 | 166529 | 10.408 | ppbv   | 96 |
| 39) 1,2-Dichloropropane       | 4.302  | 63  | 153042 | 11.961 | ppbv   | 96 |
| 40) 1,4-Dioxane               | 4.567  | 88  | 61682  | 10.138 | ppbv # | 88 |
| 41) Tetrahydrofuran           | 3.046  | 42  | 164268 | 11.927 | ppbv   | 97 |
| 42) Bromodichloromethane      | 4.473  | 83  | 336858 | 12.351 | ppbv   | 98 |
| 43) Methyl Methacrylate       | 4.862  | 69  | 158457 | 10.979 | ppbv   | 98 |
| 44) 2,2,4-Trimethylpentane    | 4.625  | 57  | 701486 | 11.797 | ppbv   | 98 |
| 45) t-1,3-Dichloropropene     | 6.399  | 75  | 169435 | 10.403 | ppbv   | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042902.D  
 Acq On : 08 Sep 2025 13:35  
 Operator : SY/MD  
 Sample : VL0908ABS01  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01

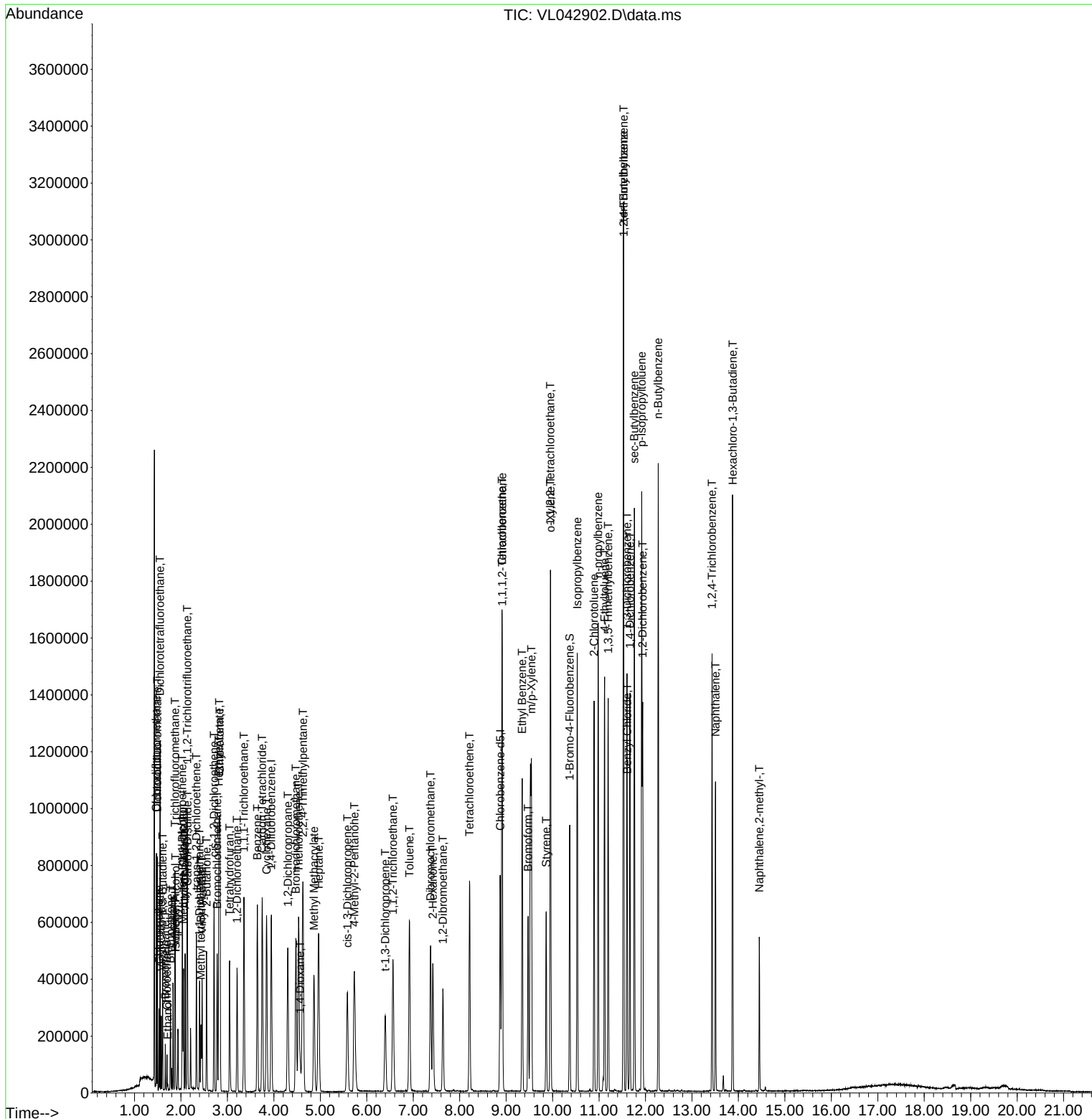
Quant Time: Sep 09 00:55:51 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 09 00:52:26 2025  
 Response via : Initial Calibration

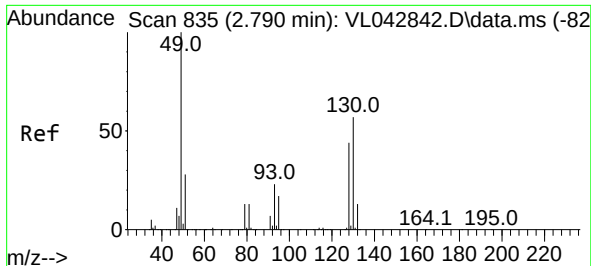
| Compound                      | R.T.   | QIon | Response | Conc   | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|--------|--------|----------|
| 46) cis-1,3-Dichloropropene   | 5.583  | 75   | 223871   | 11.031 | ppbv   | 96       |
| 47) 1,1,2-Trichloroethane     | 6.564  | 97   | 156460   | 11.541 | ppbv   | 95       |
| 48) Dibromochloromethane      | 7.373  | 129  | 256923   | 11.712 | ppbv   | 99       |
| 49) Bromoform                 | 9.474  | 173  | 203018   | 11.222 | ppbv   | 99       |
| 50) 4-Methyl-2-Pentanone      | 5.732  | 43   | 390291   | 11.688 | ppbv   | 97       |
| 51) 2-Hexanone                | 7.422  | 43   | 311589   | 11.858 | ppbv # | 95       |
| 52) Tetrachloroethene         | 8.212  | 164  | 122229   | 9.644  | ppbv   | 93       |
| 53) Toluene                   | 6.920  | 91   | 447844   | 10.752 | ppbv   | 99       |
| 54) 1,2-Dibromoethane         | 7.639  | 107  | 223417   | 11.277 | ppbv   | 96       |
| 56) 1,1,1,2-Tetrachloroethane | 8.917  | 131  | 190922   | 12.050 | ppbv   | 98       |
| 57) Chlorobenzene             | 8.911  | 112  | 345342   | 11.855 | ppbv   | 99       |
| 58) Ethyl Benzene             | 9.344  | 91   | 618650   | 11.442 | ppbv   | 99       |
| 59) m/p-Xylene                | 9.542  | 91   | 483410   | 11.407 | ppbv # | 100      |
| 60) o-Xylene                  | 9.956  | 91   | 504922   | 11.844 | ppbv   | 99       |
| 61) Styrene                   | 9.862  | 104  | 212594   | 10.644 | ppbv   | 100      |
| 62) Isopropylbenzene          | 10.532 | 105  | 717761   | 11.521 | ppbv   | 99       |
| 63) 1,1,2,2-Tetrachloroethane | 9.953  | 83   | 295111   | 12.588 | ppbv   | 99       |
| 64) n-propylbenzene           | 10.982 | 120  | 186258   | 11.717 | ppbv   | 94       |
| 65) tert-Butylbenzene         | 11.523 | 119  | 633844   | 11.541 | ppbv   | 97       |
| 66) Benzyl Chloride           | 11.607 | 91   | 55458    | 7.954  | ppbv   | 99       |
| 67) sec-Butylbenzene          | 11.759 | 105  | 904977   | 11.739 | ppbv   | 99       |
| 69) p-Isopropyltoluene        | 11.918 | 119  | 743217   | 11.229 | ppbv   | 98       |
| 70) n-Butylbenzene            | 12.274 | 91   | 793205   | 12.084 | ppbv   | 97       |
| 71) 2-Chlorotoluene           | 10.892 | 91   | 551398   | 11.398 | ppbv   | 97       |
| 72) 4-Ethyltoluene            | 11.118 | 105  | 613510   | 11.871 | ppbv   | 99       |
| 73) 1,3,5-Trimethylbenzene    | 11.196 | 105  | 505222   | 11.496 | ppbv   | 100      |
| 74) 1,2,4-Trimethylbenzene    | 11.529 | 105  | 562868   | 11.668 | ppbv   | 99       |
| 75) 1,3-Dichlorobenzene       | 11.600 | 146  | 322979   | 11.778 | ppbv   | 99       |
| 76) 1,4-Dichlorobenzene       | 11.665 | 146  | 320689   | 11.563 | ppbv   | 99       |
| 77) 1,2-Dichlorobenzene       | 11.940 | 146  | 309433   | 11.524 | ppbv   | 100      |
| 78) Hexachloro-1,3-Butadiene  | 13.876 | 225  | 187990   | 8.542  | ppbv   | 97       |
| 79) Naphthalene               | 13.507 | 128  | 477313   | 10.914 | ppbv   | 99       |
| 80) Naphthalene,2-methyl-     | 14.449 | 142  | 142381   | 8.713  | ppbv   | 97       |
| 81) 1,2,4-Trichlorobenzene    | 13.432 | 180  | 228630   | 10.401 | ppbv   | 99       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

**Instrument :**  
MSVOA\_L  
**ClientSampleId :**  
VL0908ABS01

Quant Time: Sep 09 00:55:51 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_LFri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 09 00:52:26 2025  
Response via : Initial Calibration

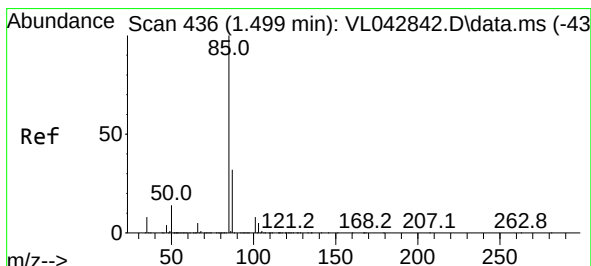
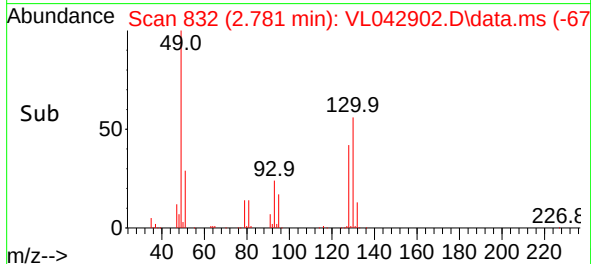
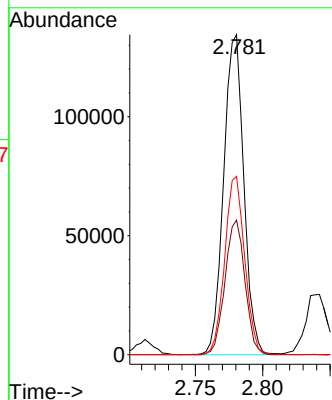
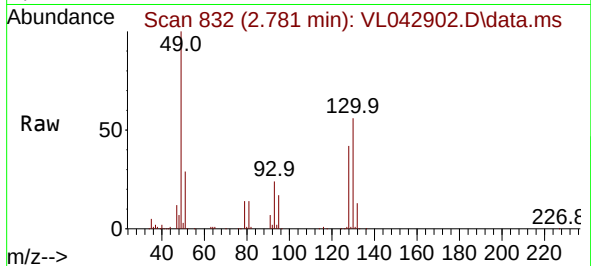




#1  
Bromochloromethane  
Concen: 10.000 ppbv  
RT: 2.781 min Scan# 81  
Delta R.T. 0.004 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

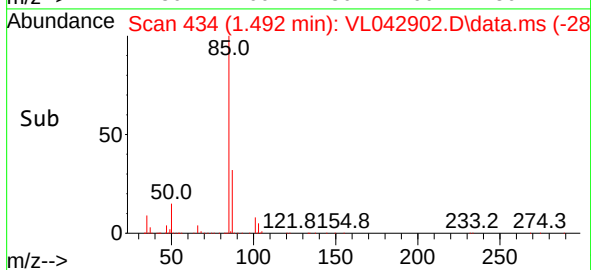
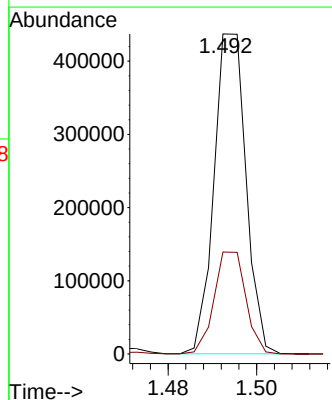
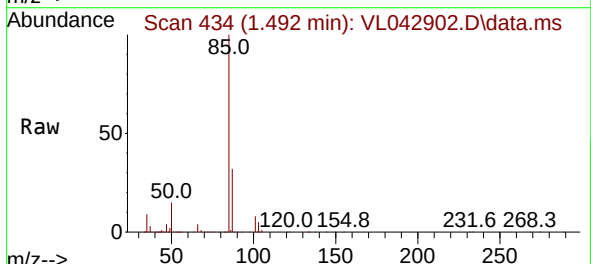
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion: 49 Resp: 139945  
Ion Ratio Lower Upper  
49 100  
128 41.6 23.7 71.1  
130 55.2 30.6 91.6

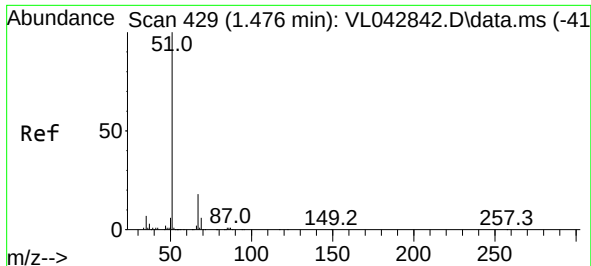


#2  
Dichlorodifluoromethane  
Concen: 10.731 ppbv  
RT: 1.492 min Scan# 434  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 85 Resp: 220085  
Ion Ratio Lower Upper  
85 100  
87 31.9 25.3 37.9



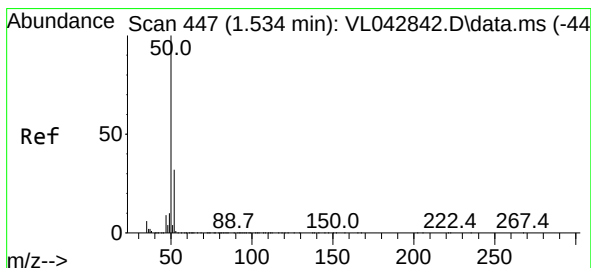
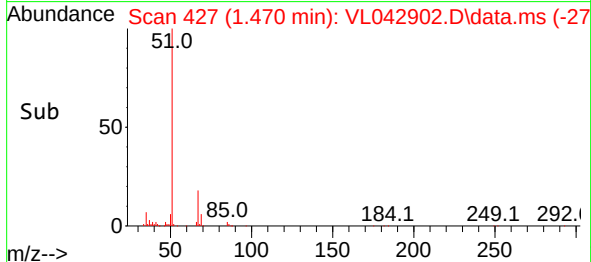
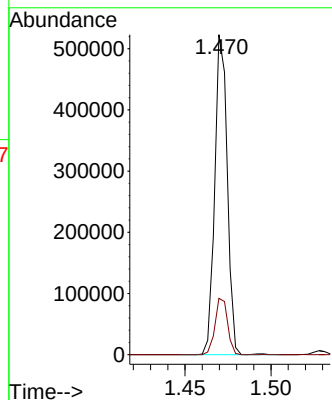
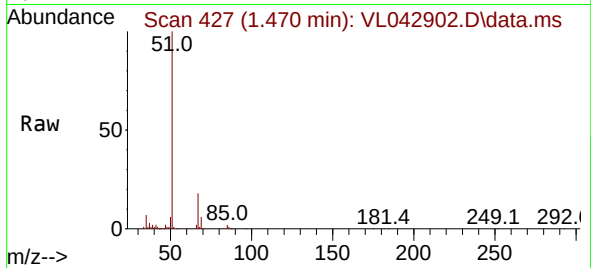




#3  
Chlorodifluoromethane  
Concen: 11.627 ppbv  
RT: 1.470 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

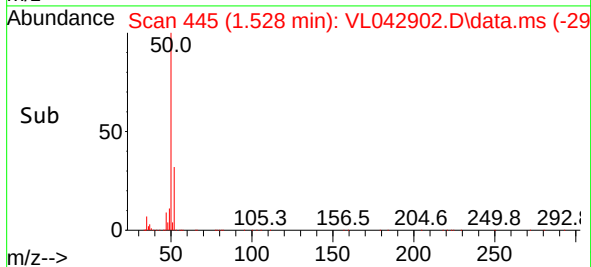
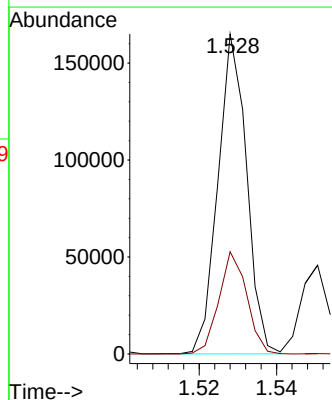
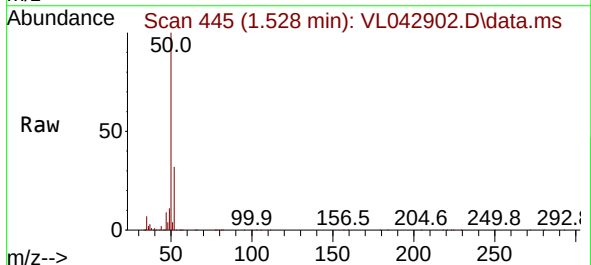
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

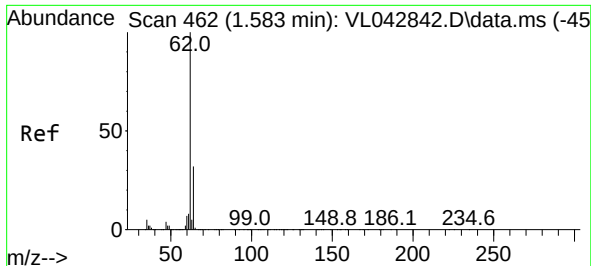
Tgt Ion: 51 Resp: 263595  
Ion Ratio Lower Upper  
51 100  
67 17.8 14.9 22.3



#4  
Chloromethane  
Concen: 10.244 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 50 Resp: 84783  
Ion Ratio Lower Upper  
50 100  
52 32.0 25.9 38.9

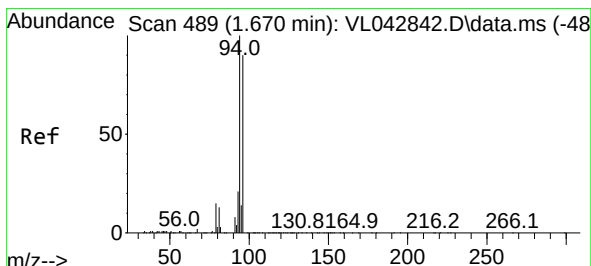
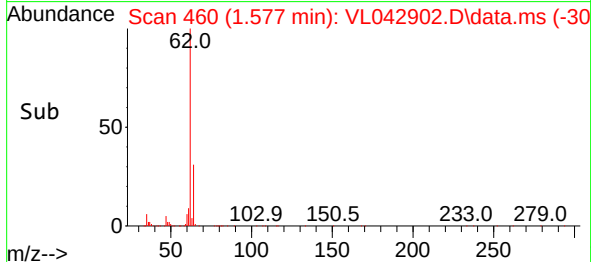
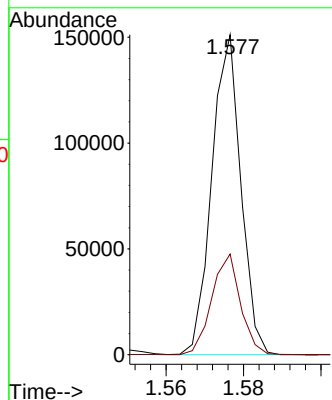
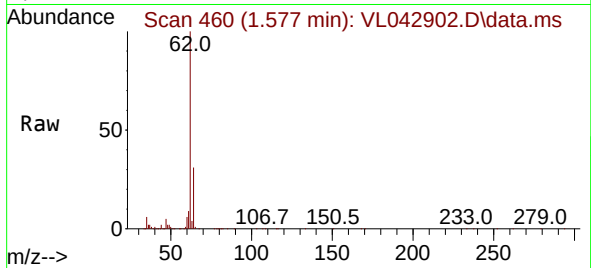




#5  
 Vinyl Chloride  
 Concen: 9.636 ppbv  
 RT: 1.577 min Scan# 4  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

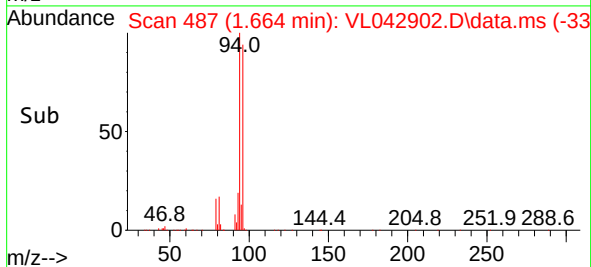
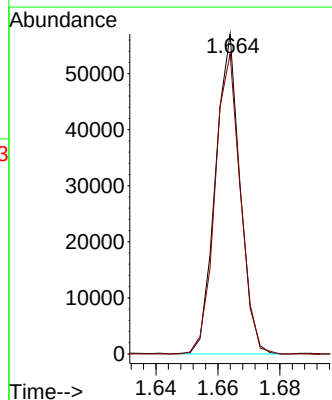
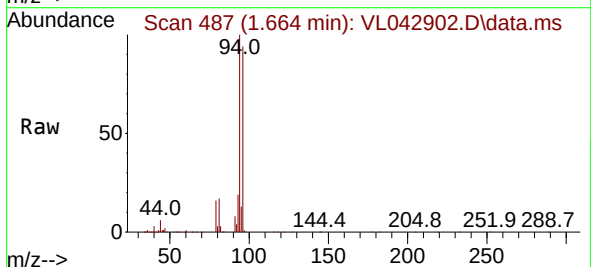
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0908ABS01

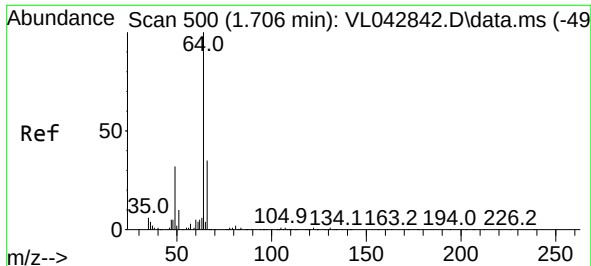
Tgt Ion: 62 Resp: 78545  
 Ion Ratio Lower Upper  
 62 100  
 64 31.5 25.4 38.2



#6  
 Bromomethane  
 Concen: 9.636 ppbv  
 RT: 1.664 min Scan# 487  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

Tgt Ion: 94 Resp: 31405  
 Ion Ratio Lower Upper  
 94 100  
 96 93.8 72.1 108.1

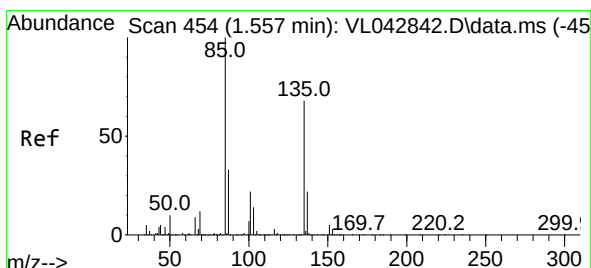
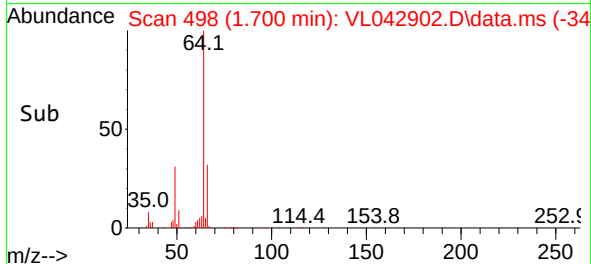
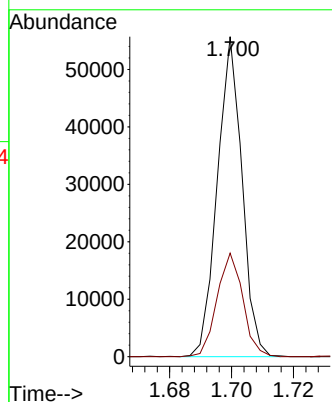
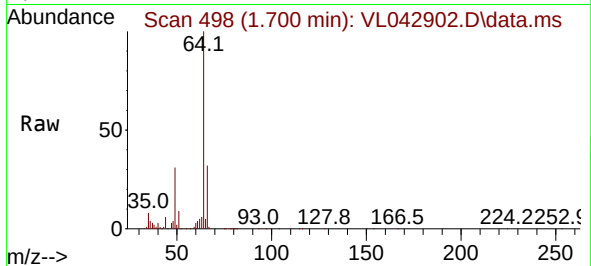




#7  
Chloroethane  
Concen: 9.679 ppbv  
RT: 1.700 min Scan# 498  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

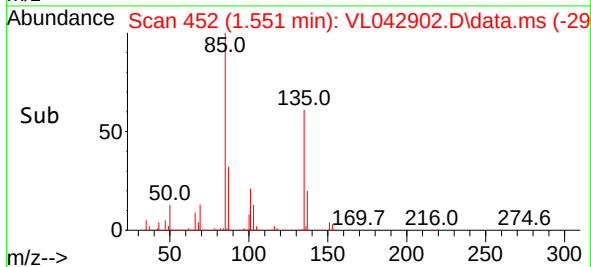
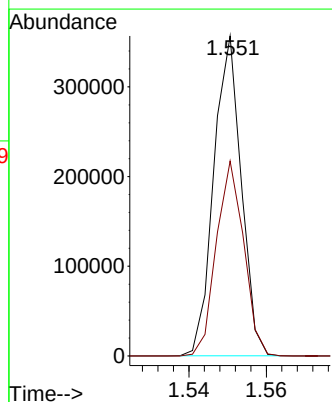
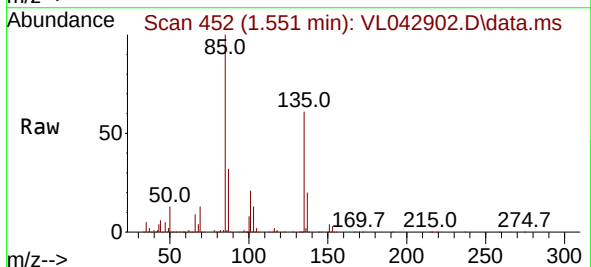
Instrument :  
MSVOA\_1  
ClientSampleId :  
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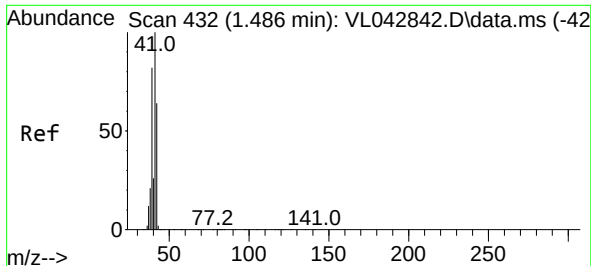
Tgt Ion: 64 Resp: 30810  
Ion Ratio Lower Upper  
64 100  
66 32.3 28.6 42.8



#8  
Dichlorotetrafluoroethane  
Concen: 10.464 ppbv  
RT: 1.551 min Scan# 452  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 85 Resp: 175617  
Ion Ratio Lower Upper  
85 100  
135 60.9 51.2 76.8





#9

Propene

Concen: 0.940 ppbv

RT: 1.881 min Scan# 51

Delta R.T. 0.405 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_L

ClientSampleId :

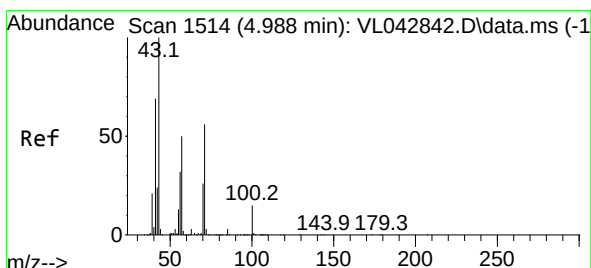
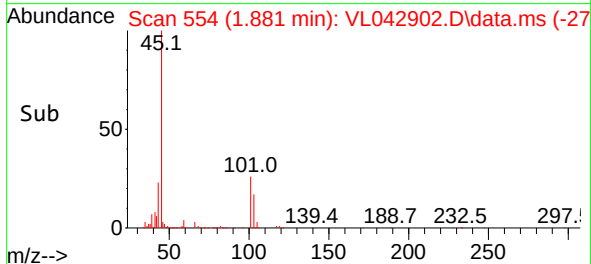
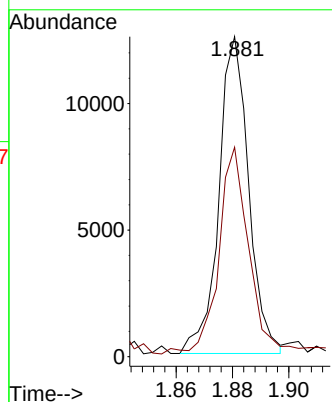
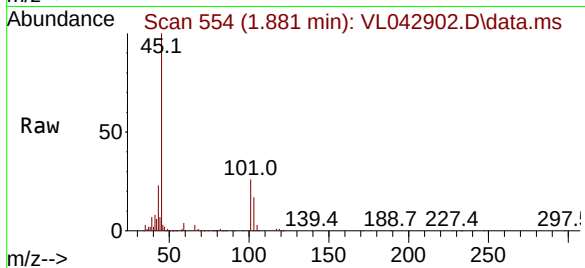
VL0908ABS01

Tgt Ion: 41 Resp: 9206

Ion Ratio Lower Upper

41 100

42 65.5 53.0 79.4



#10

Heptane

Concen: 9.785 ppbv

RT: 4.965 min Scan# 1507

Delta R.T. 0.006 min

Lab File: VL042902.D

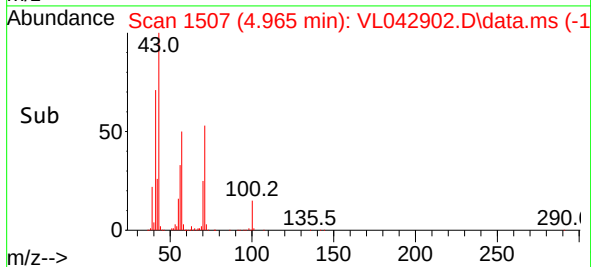
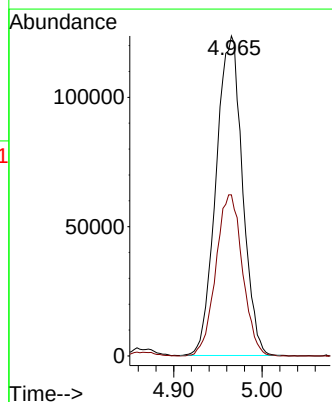
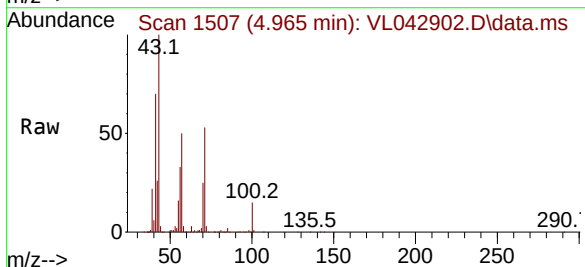
Acq: 08 Sep 2025 13:35

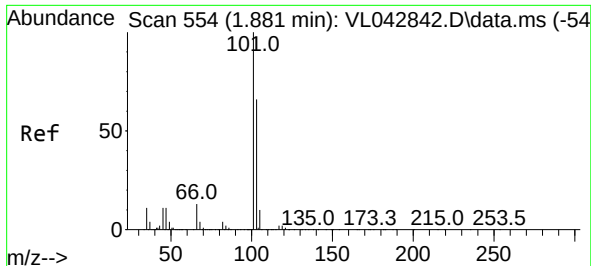
Tgt Ion: 43 Resp: 256593

Ion Ratio Lower Upper

43 100

57 50.9 41.4 62.0

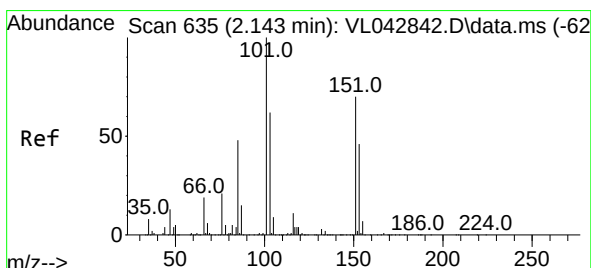
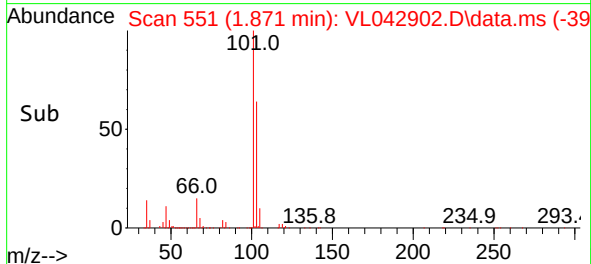
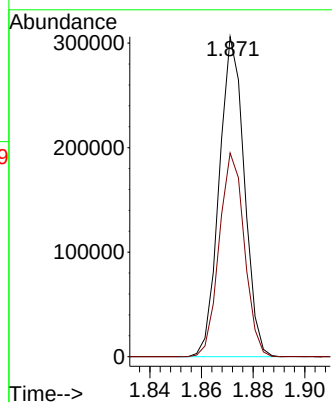
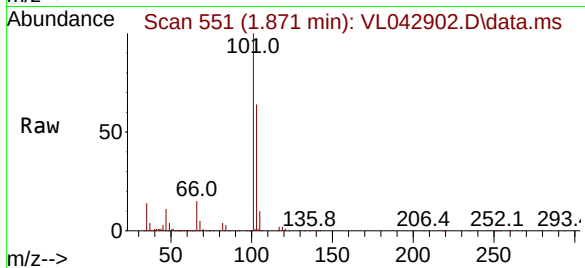




#11  
 Trichlorofluoromethane  
 Concen: 10.185 ppbv  
 RT: 1.871 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

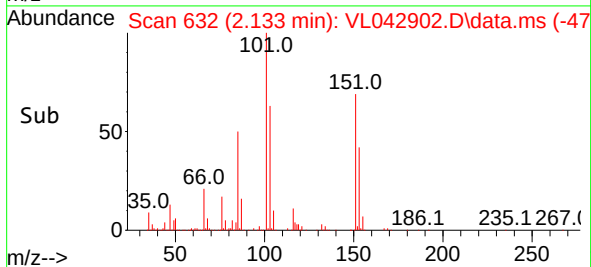
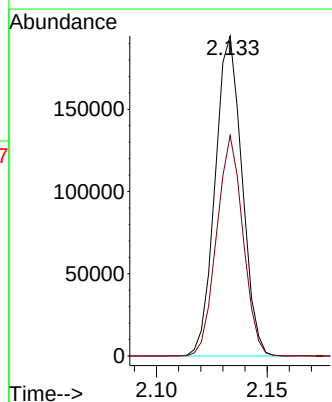
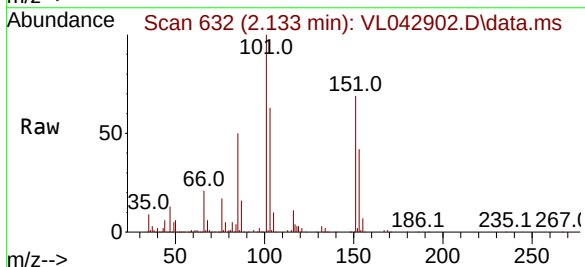
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0908ABS01

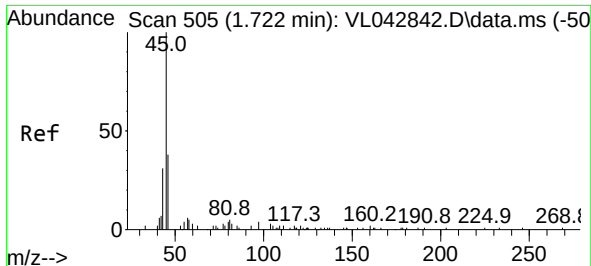
Tgt Ion:101 Resp: 206104  
 Ion Ratio Lower Upper  
 101 100  
 103 63.6 52.5 78.7



#12  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 10.197 ppbv  
 RT: 2.133 min Scan# 632  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

Tgt Ion:101 Resp: 164464  
 Ion Ratio Lower Upper  
 101 100  
 151 67.4 56.4 84.6

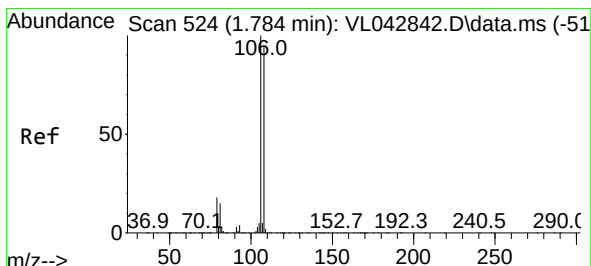
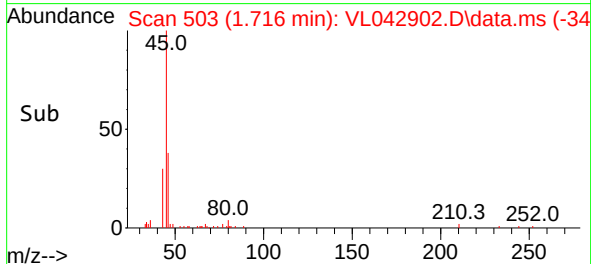
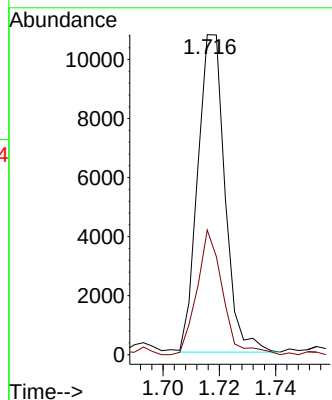
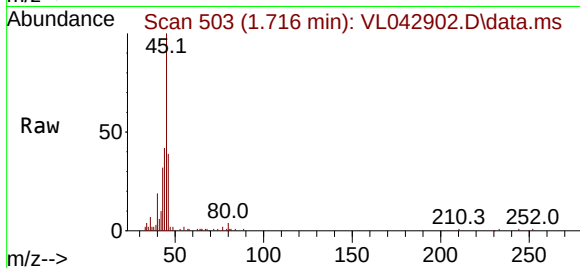




#13  
Ethanol  
Concen: 8.071 ppbv  
RT: 1.716 min Scan# 505  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

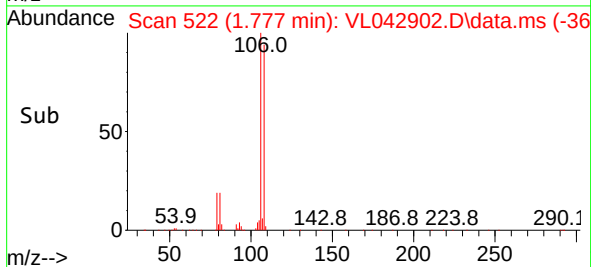
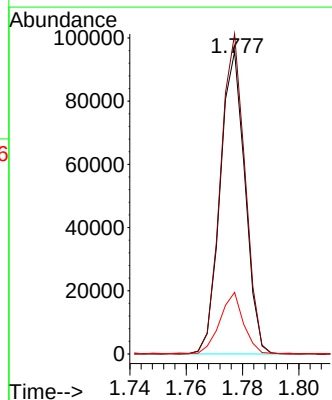
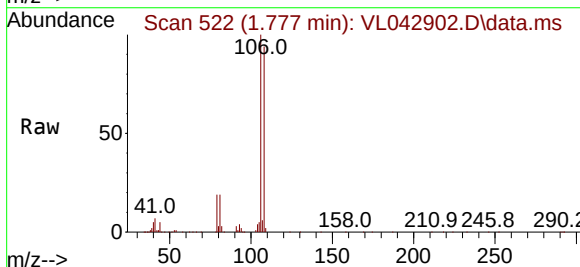
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

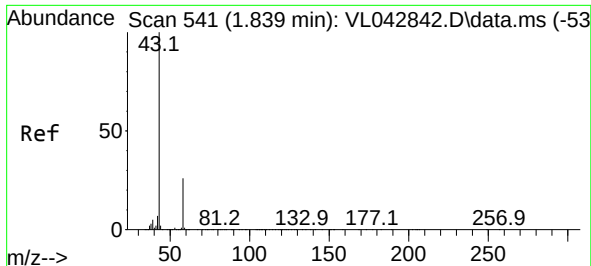
Tgt Ion: 45 Resp: 7225  
Ion Ratio Lower Upper  
45 100  
46 38.4 17.5 69.9



#14  
Bromoethene  
Concen: 10.009 ppbv  
RT: 1.777 min Scan# 522  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 108 Resp: 58442  
Ion Ratio Lower Upper  
108 100  
106 104.8 85.1 127.7  
79 20.1 16.3 24.5

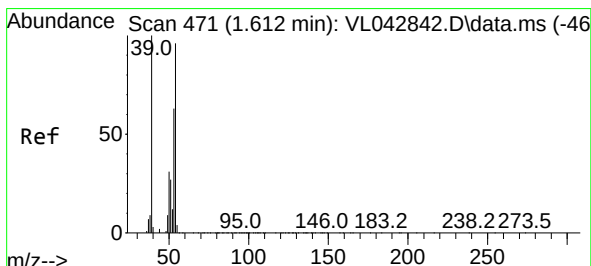
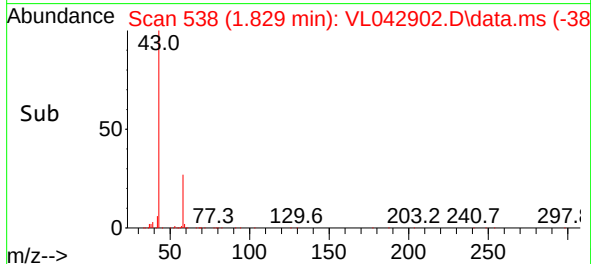
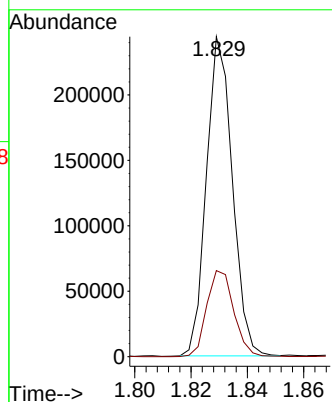
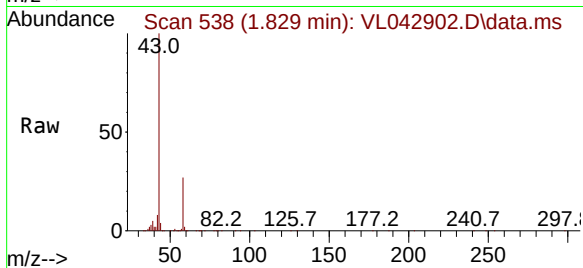




#15  
Acetone  
Concen: 8.435 ppbv  
RT: 1.829 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

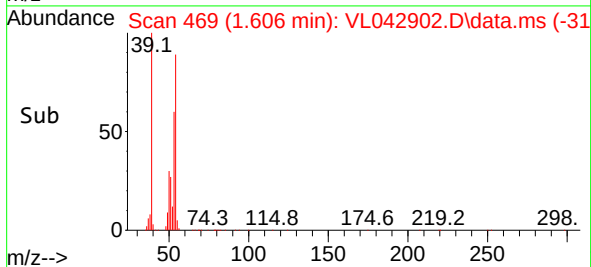
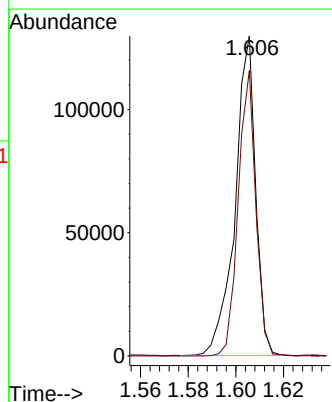
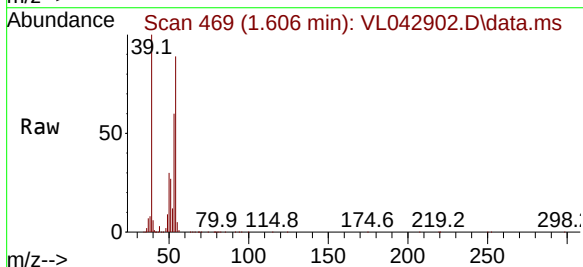
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

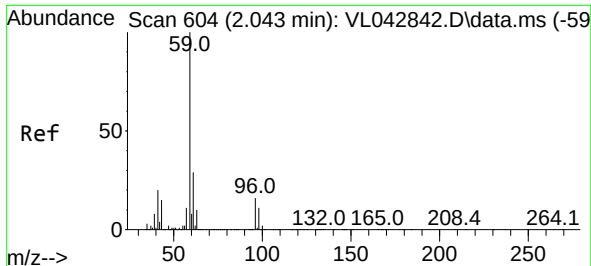
Tgt Ion: 43 Resp: 156147  
Ion Ratio Lower Upper  
43 100  
58 28.3 22.4 33.6



#16  
1,3-Butadiene  
Concen: 9.250 ppbv  
RT: 1.606 min Scan# 469  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 39 Resp: 77632  
Ion Ratio Lower Upper  
39 100  
54 76.8 63.6 95.4





#17

tert-Butyl alcohol

Concen: 8.020 ppbv

RT: 2.036 min Scan# 604

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_L

ClientSampleId :

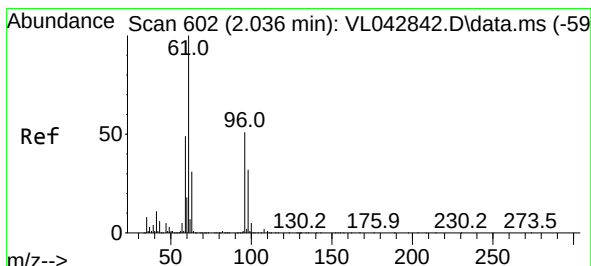
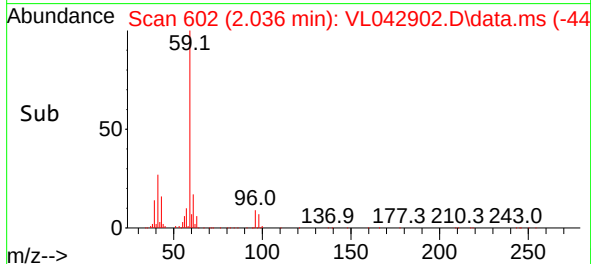
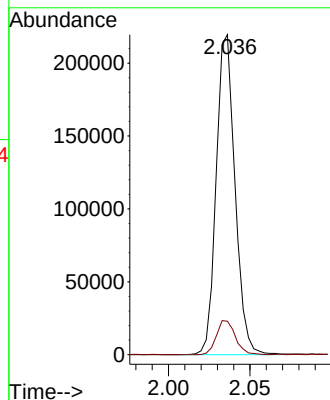
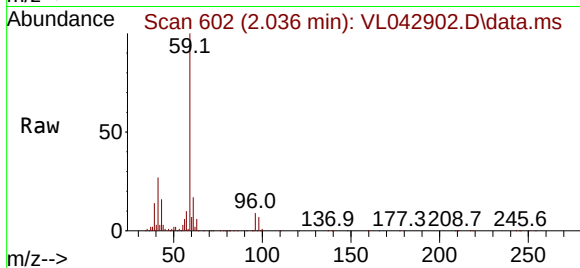
VL0908ABS01

Tgt Ion: 59 Resp: 176056

Ion Ratio Lower Upper

59 100

57 10.9 9.0 13.4



#18

1,1-Dichloroethene

Concen: 9.707 ppbv

RT: 2.026 min Scan# 599

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

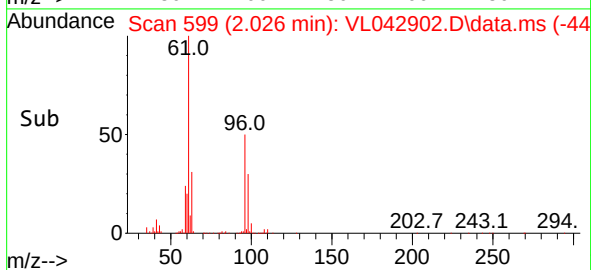
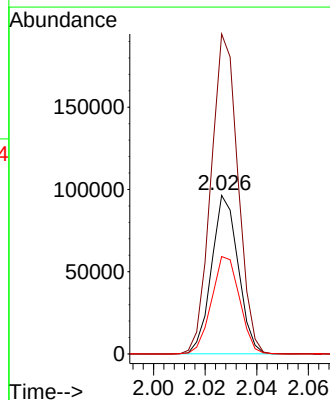
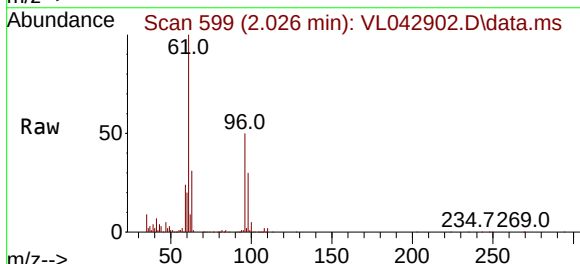
Tgt Ion: 96 Resp: 68830

Ion Ratio Lower Upper

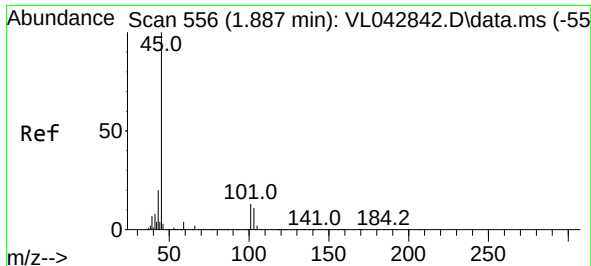
96 100

61 201.9 158.2 237.4

98 61.5 50.6 76.0



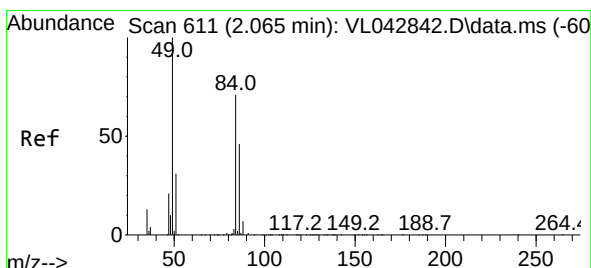
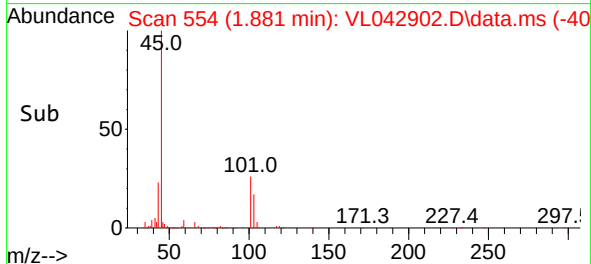
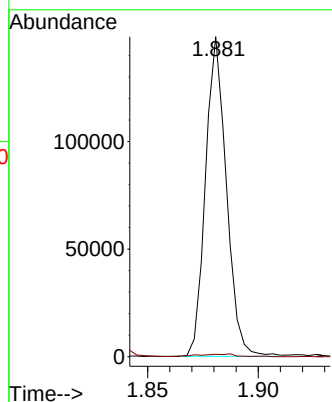
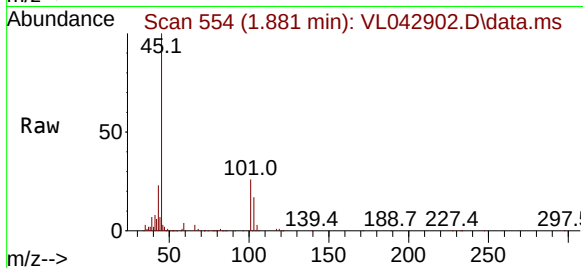




#19  
Isopropyl Alcohol  
Concen: 8.791 ppbv  
RT: 1.881 min Scan# 511  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

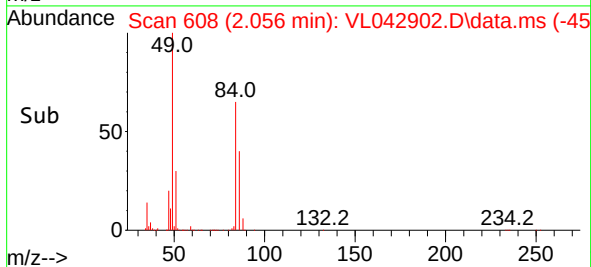
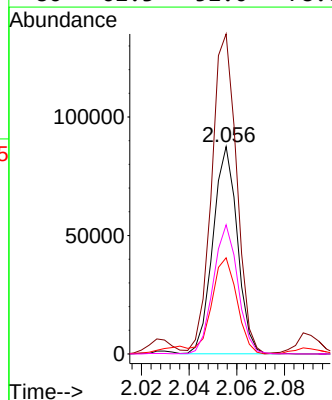
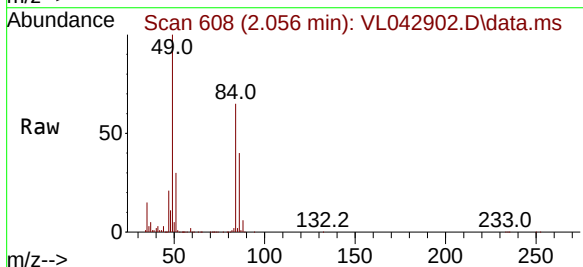
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

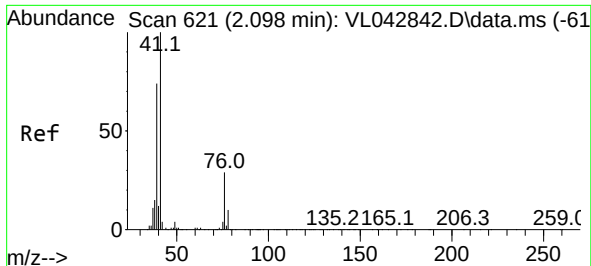
Tgt Ion: 45 Resp: 97198  
Ion Ratio Lower Upper  
45 100  
58 45.5 32.7 49.1



#20  
Methylene Chloride  
Concen: 8.038 ppbv  
RT: 2.056 min Scan# 608  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 84 Resp: 62334  
Ion Ratio Lower Upper  
84 100  
49 153.6 112.3 168.5  
51 46.1 36.0 54.0  
86 62.3 52.0 78.0

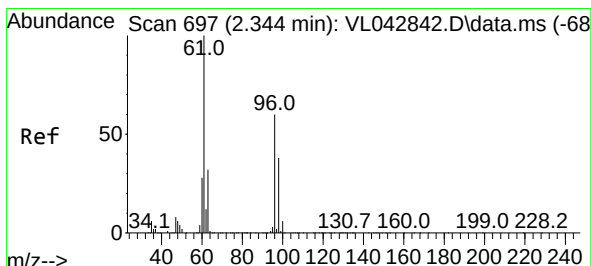
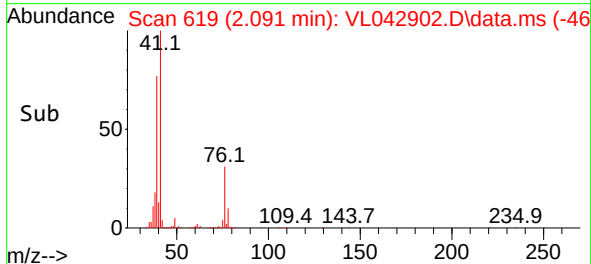
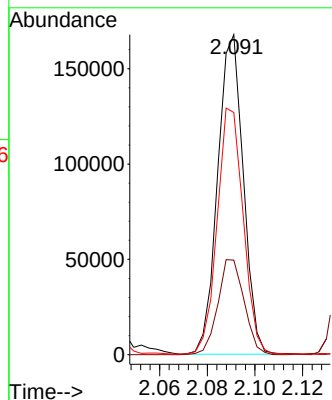
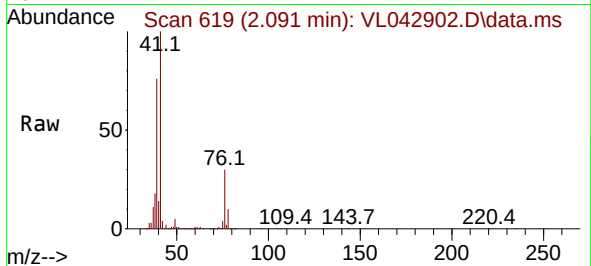




#21  
 Allyl Chloride  
 Concen: 9.573 ppbv  
 RT: 2.091 min Scan# 619  
 Delta R.T. 0.003 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

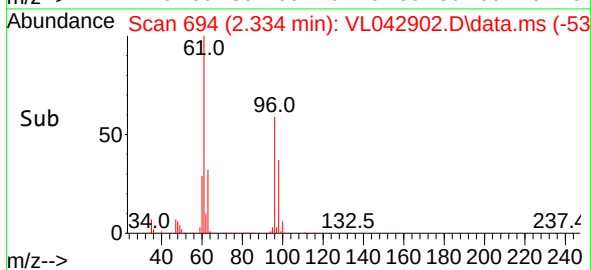
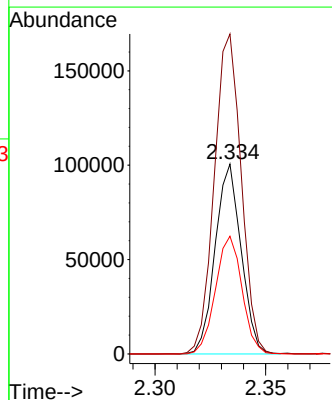
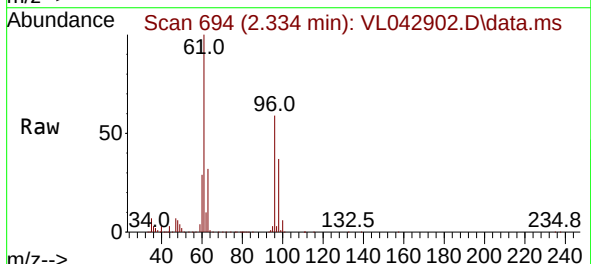
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01

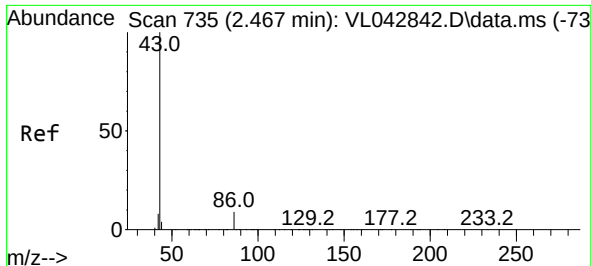
Tgt Ion: 41 Resp: 125191  
 Ion Ratio Lower Upper  
 41 100  
 76 30.6 23.9 35.9  
 39 78.4 57.8 86.6



#22  
 trans-1,2-Dichloroethene  
 Concen: 10.005 ppbv  
 RT: 2.334 min Scan# 694  
 Delta R.T. 0.003 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

Tgt Ion: 96 Resp: 82077  
 Ion Ratio Lower Upper  
 96 100  
 61 168.5 132.6 199.0  
 98 62.0 50.0 75.0



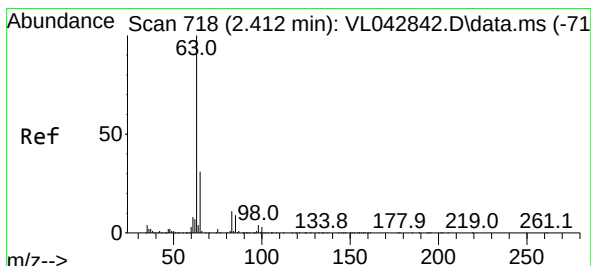
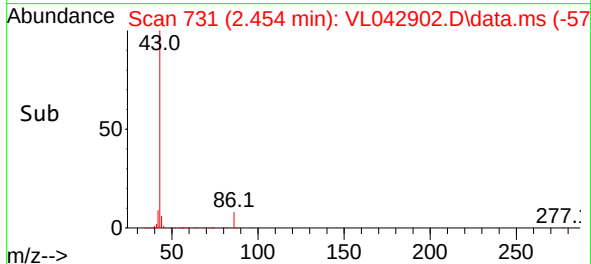
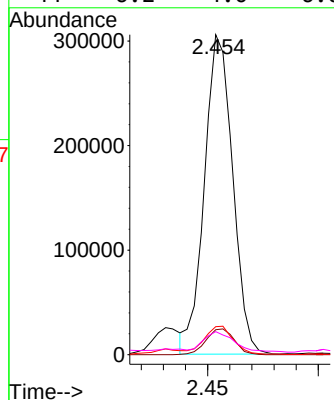
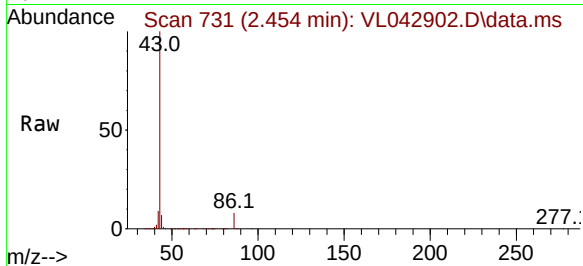


#23  
 Vinyl Acetate  
 Concen: 10.634 ppbv  
 RT: 2.454 min Scan# 715  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0908ABS01

Tgt Ion: 43 Resp: 270676

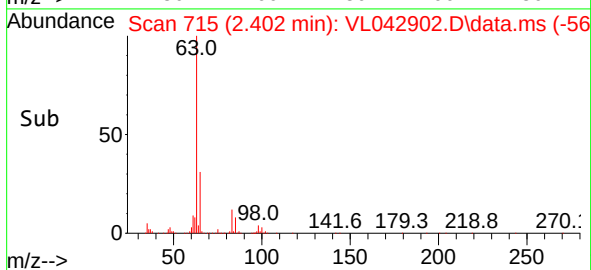
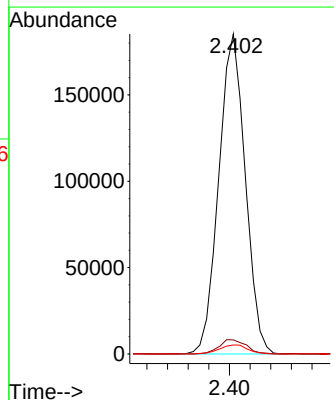
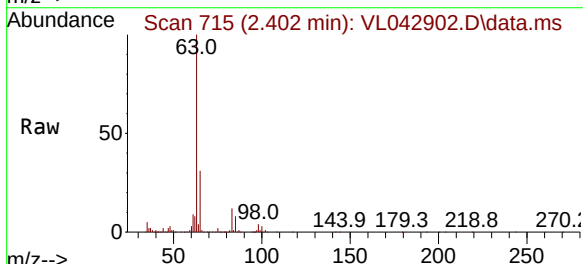
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 86  | 7.8   | 6.6   | 9.8   |
| 42  | 8.6   | 7.0   | 10.6  |
| 44  | 6.2   | 4.0   | 6.0   |

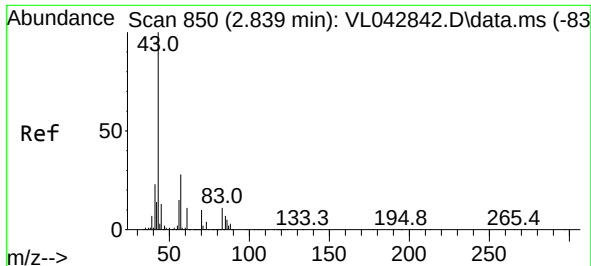


#24  
 1,1-Dichloroethane  
 Concen: 10.066 ppbv  
 RT: 2.402 min Scan# 715  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

Tgt Ion: 63 Resp: 164910

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 63  | 100   |       |       |
| 98  | 4.4   | 2.1   | 6.5   |
| 100 | 2.8   | 1.7   | 5.1   |

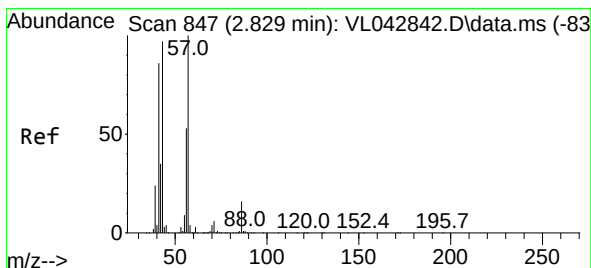
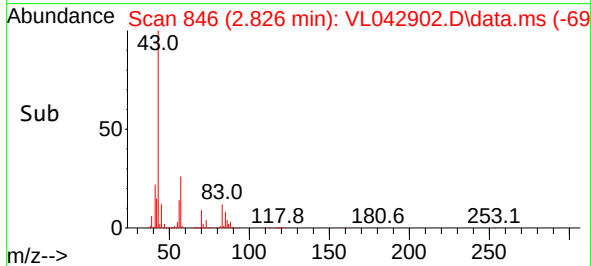
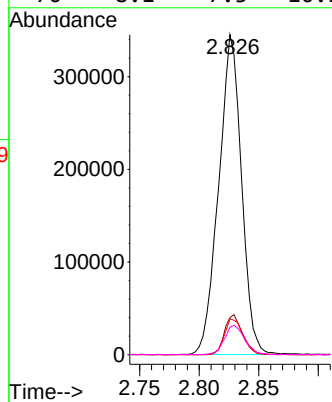
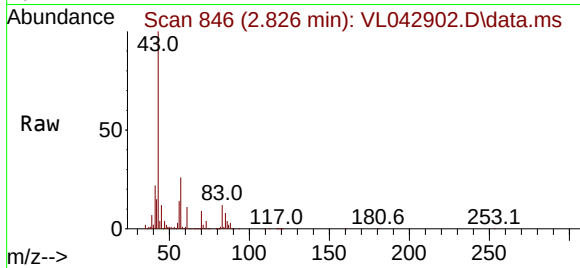




#25  
Ethyl Acetate  
Concen: 10.237 ppbv  
RT: 2.826 min Scan# 846  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

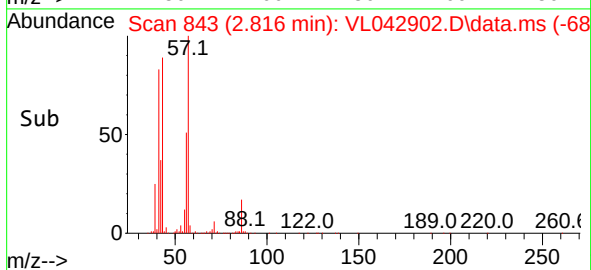
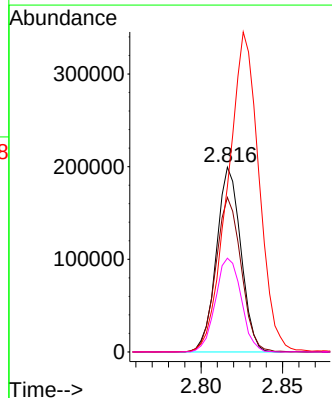
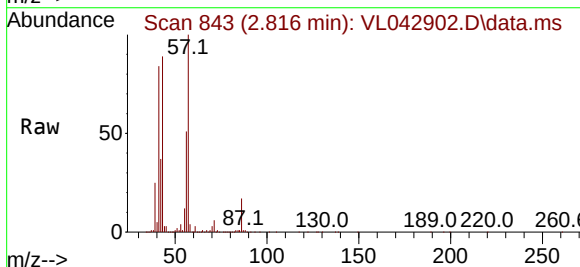
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

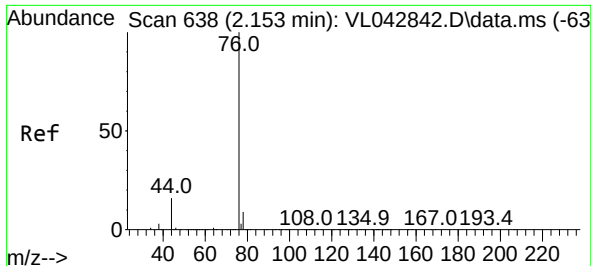
| Tgt Ion: | 43    | Resp: | 458640 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 43       | 100   |       |        |
| 45       | 10.0  | 8.1   | 12.1   |
| 61       | 9.2   | 7.4   | 11.2   |
| 70       | 8.1   | 7.3   | 10.9   |



#26  
Hexane  
Concen: 10.043 ppbv  
RT: 2.816 min Scan# 843  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

| Tgt Ion: | 57    | Resp: | 207705 |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 57       | 100   |       |        |
| 41       | 87.5  | 68.6  | 103.0  |
| 43       | 221.9 | 168.5 | 252.7  |
| 56       | 53.7  | 41.5  | 62.3   |

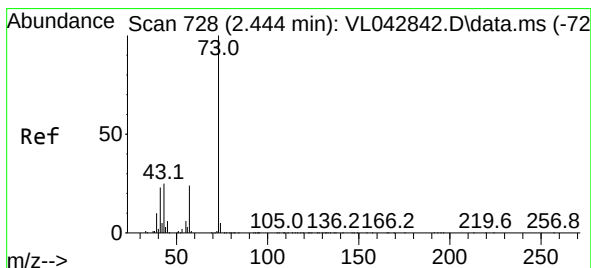
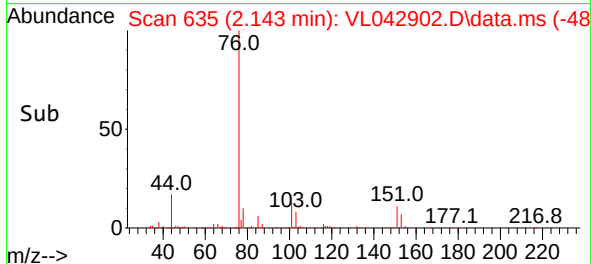
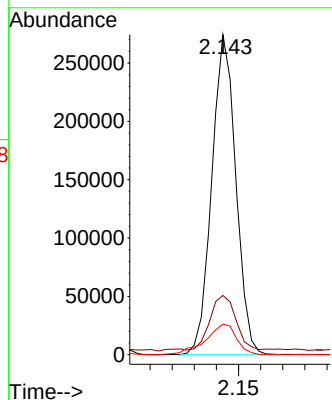
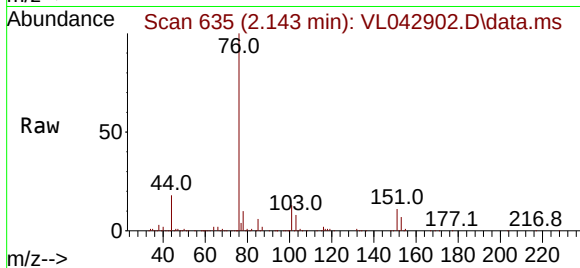




#27  
Carbon Disulfide  
Concen: 10.273 ppbv  
RT: 2.143 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

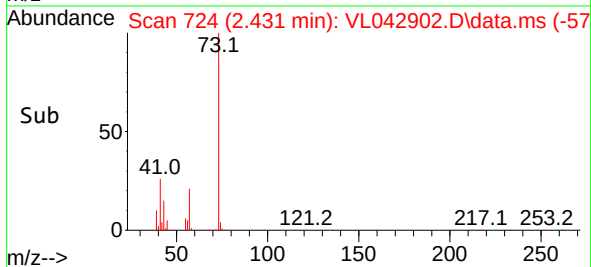
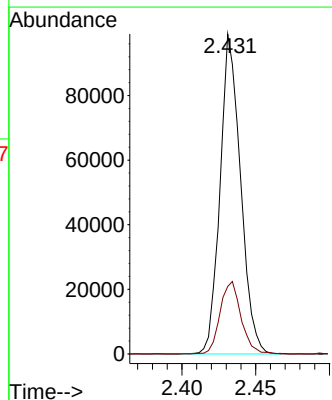
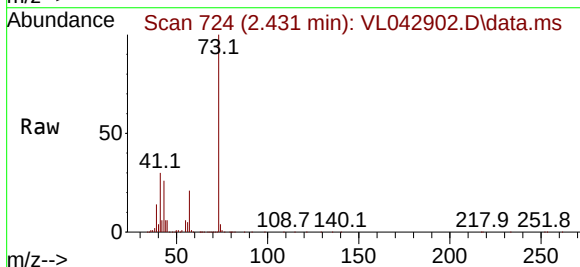
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

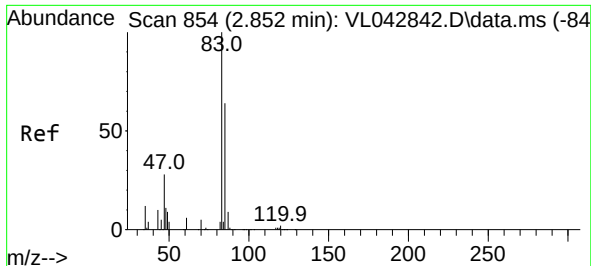
Tgt Ion: 76 Resp: 206751  
Ion Ratio Lower Upper  
76 100  
44 20.9 15.9 23.9  
78 12.3 9.5 14.3



#28  
Methyl tert-Butyl Ether  
Concen: 9.082 ppbv  
RT: 2.431 min Scan# 724  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 73 Resp: 95768  
Ion Ratio Lower Upper  
73 100  
57 23.2 21.6 32.4





#29

Chloroform

Concen: 10.562 ppbv

RT: 2.839 min Scan# 81

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_L

ClientSampleId :

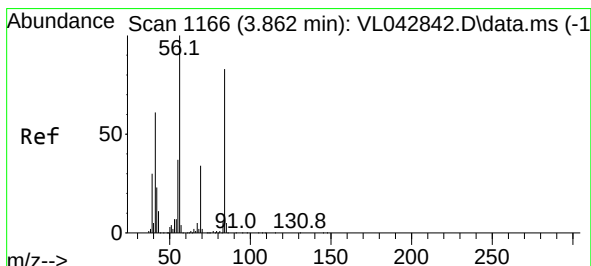
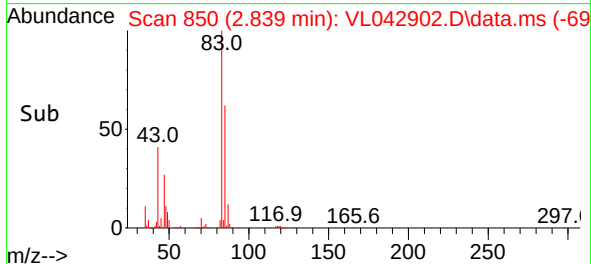
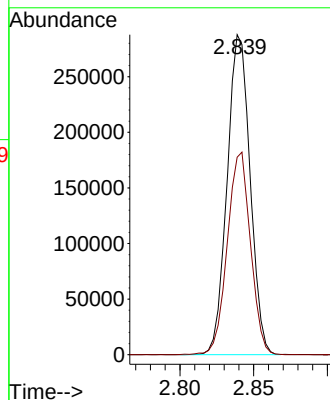
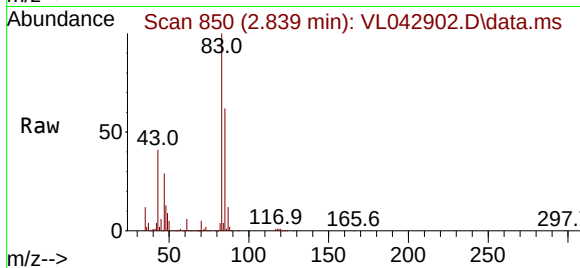
VL0908ABS01

Tgt Ion: 83 Resp: 311859

Ion Ratio Lower Upper

83 100

85 61.7 51.1 76.7



#30

Cyclohexane

Concen: 9.340 ppbv

RT: 3.845 min Scan# 1161

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

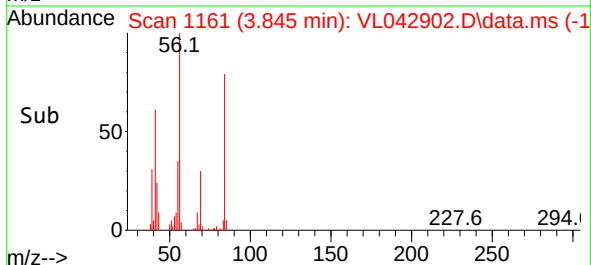
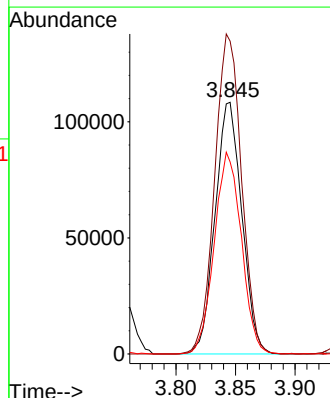
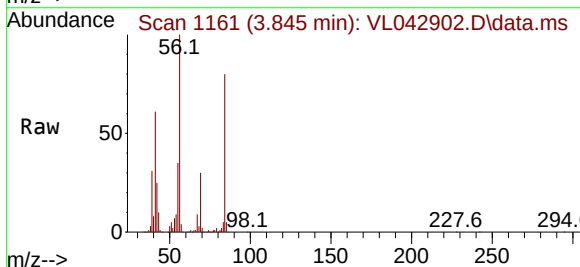
Tgt Ion: 84 Resp: 169353

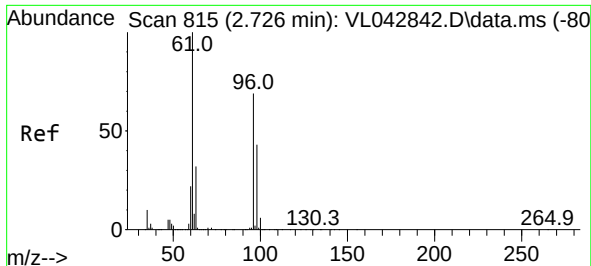
Ion Ratio Lower Upper

84 100

56 127.6 98.8 148.2

41 81.1 61.3 91.9

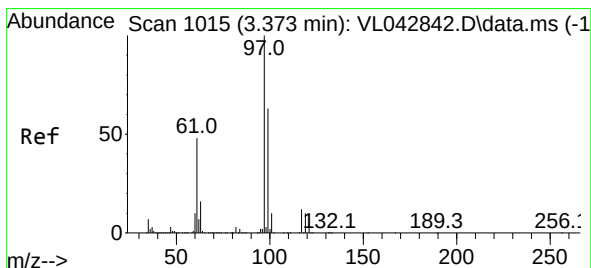
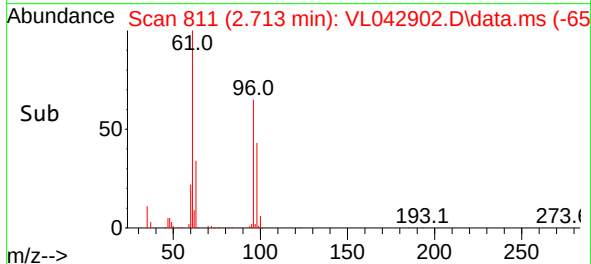
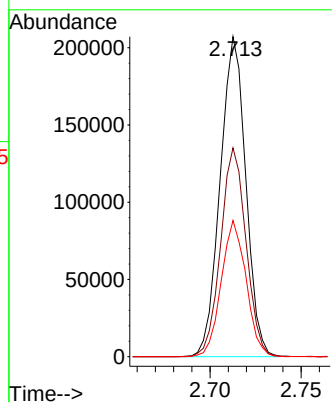
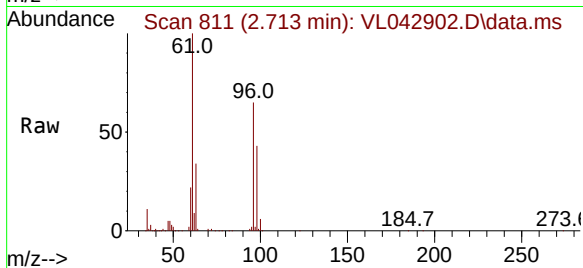




#31  
 cis-1,2-Dichloroethene  
 Concen: 9.796 ppbv  
 RT: 2.713 min Scan# 815  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

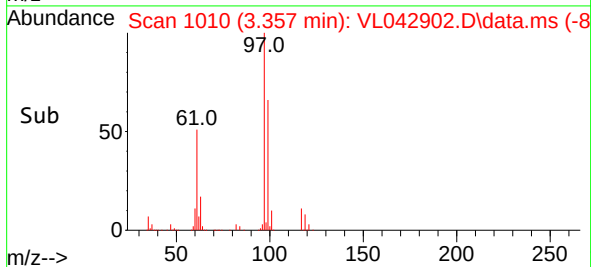
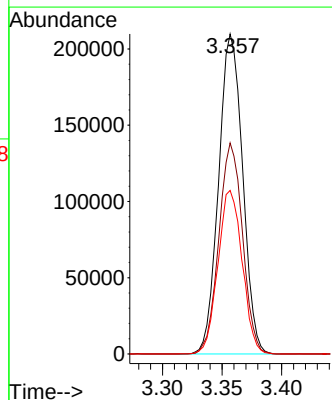
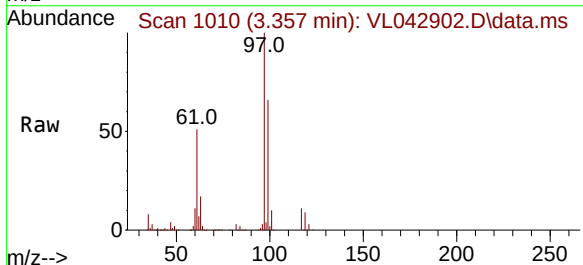
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 VL0908ABS01

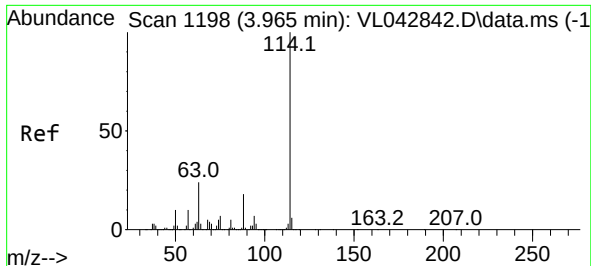
Tgt Ion: 61 Resp: 202349  
 Ion Ratio Lower Upper  
 61 100  
 96 65.2 55.0 82.6  
 98 42.5 34.3 51.5



#32  
 1,1,1-Trichloroethane  
 Concen: 9.409 ppbv  
 RT: 3.357 min Scan# 1010  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

Tgt Ion: 97 Resp: 293618  
 Ion Ratio Lower Upper  
 97 100  
 99 65.0 51.0 76.6  
 61 51.7 38.0 57.0

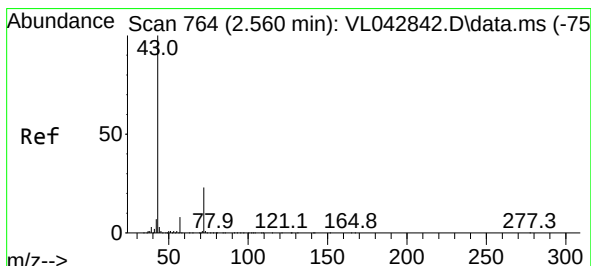
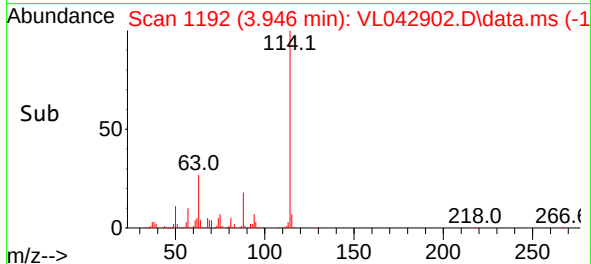
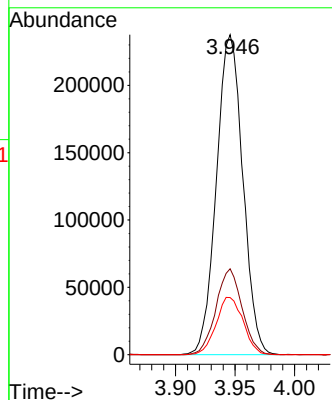
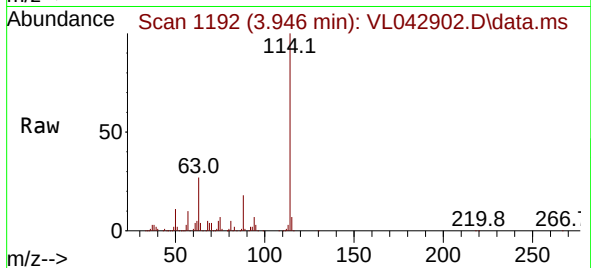




#33  
1,4-Difluorobenzene  
Concen: 10.000 ppbv  
RT: 3.946 min Scan# 1198  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

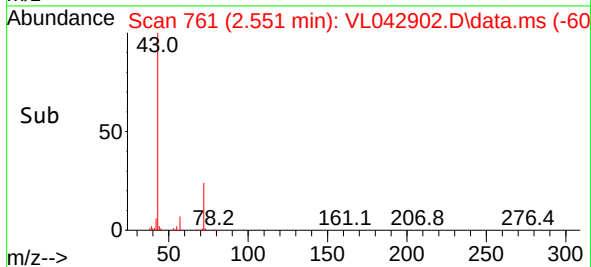
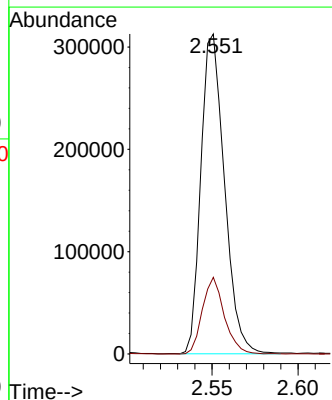
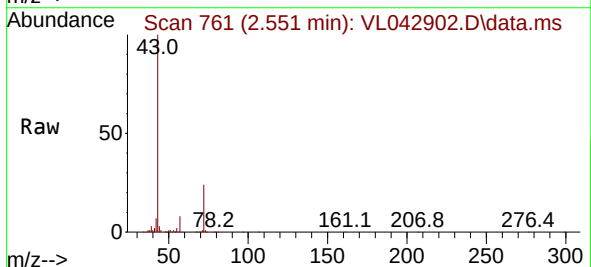
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

Tgt Ion:114 Resp: 365857  
Ion Ratio Lower Upper  
114 100  
63 26.5 19.7 29.5  
88 18.3 14.4 21.6

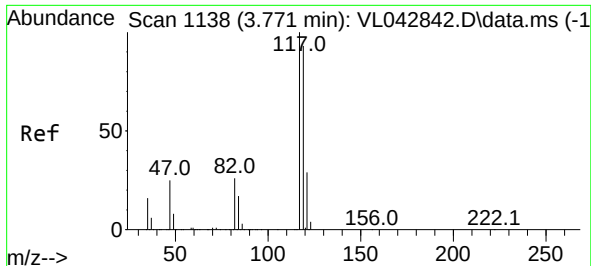


#34  
2-Butanone  
Concen: 12.066 ppbv  
RT: 2.551 min Scan# 761  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 298071  
Ion Ratio Lower Upper  
43 100  
72 22.3 18.6 28.0



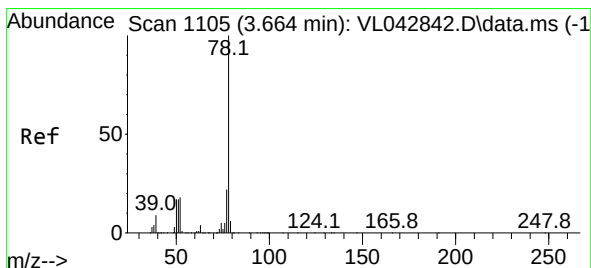
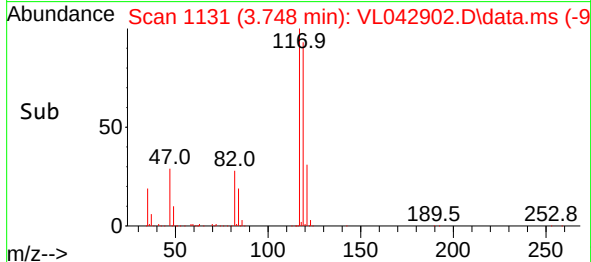
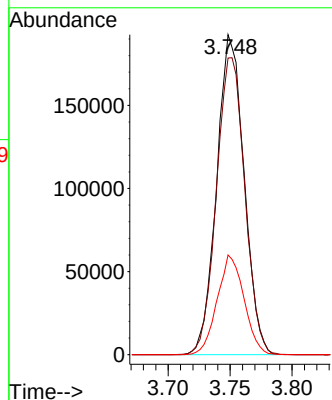
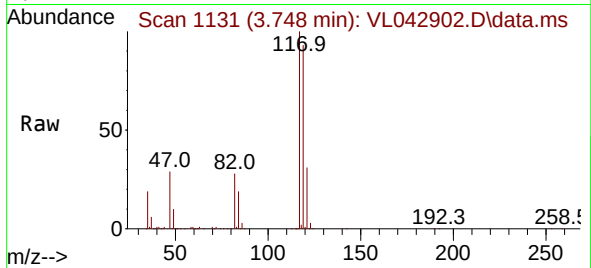




#35  
Carbon Tetrachloride  
Concen: 11.779 ppbv  
RT: 3.748 min Scan# 1138  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

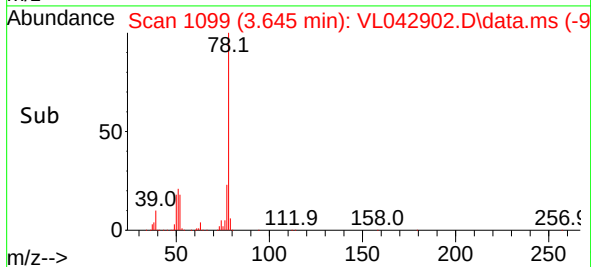
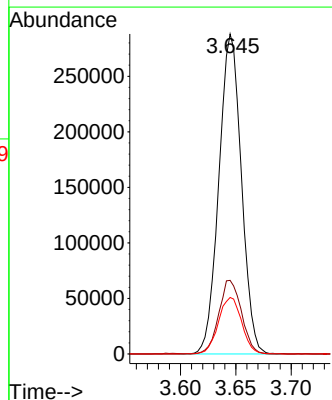
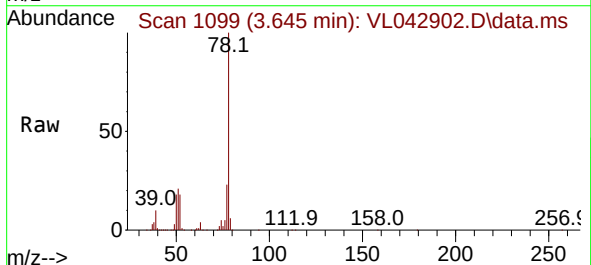
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

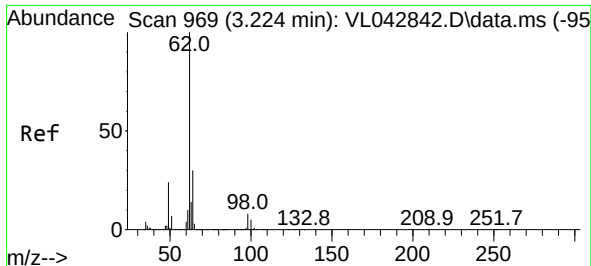
Tgt Ion:117 Resp: 297085  
Ion Ratio Lower Upper  
117 100  
119 92.6 74.7 112.1  
121 31.2 23.2 34.8



#36  
Benzene  
Concen: 11.625 ppbv  
RT: 3.645 min Scan# 1099  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 78 Resp: 407263  
Ion Ratio Lower Upper  
78 100  
77 23.0 17.7 26.5  
50 17.7 13.9 20.9





#37

1,2-Dichloroethane

Concen: 12.720 ppbv

RT: 3.208 min Scan# 9

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_L

ClientSampleId :

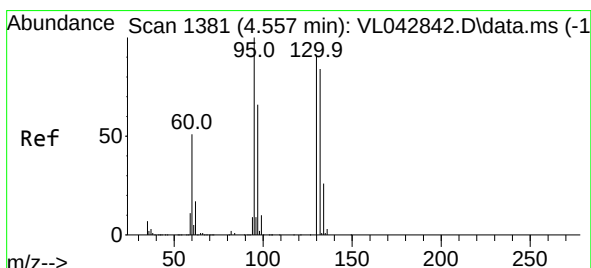
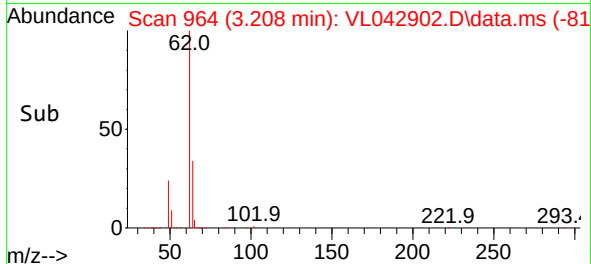
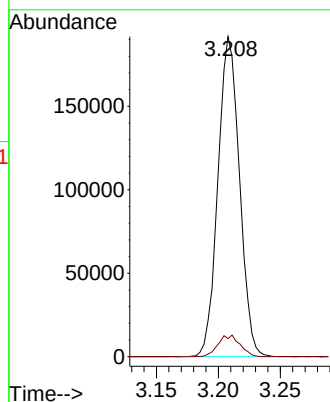
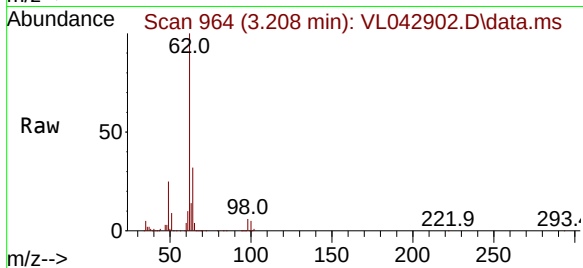
VL0908ABS01

Tgt Ion: 62 Resp: 232809

Ion Ratio Lower Upper

62 100

98 6.9 5.9 8.9



#38

Trichloroethene

Concen: 10.408 ppbv

RT: 4.532 min Scan# 1373

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion:130 Resp: 166529

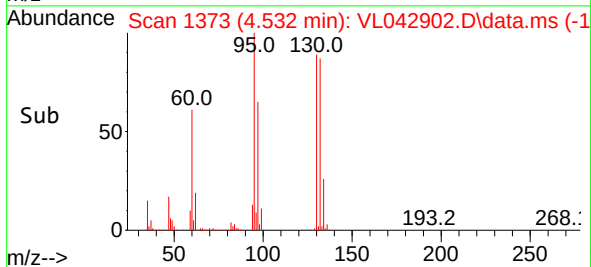
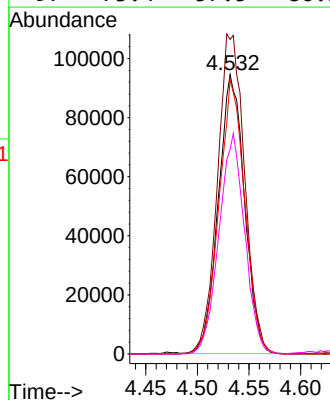
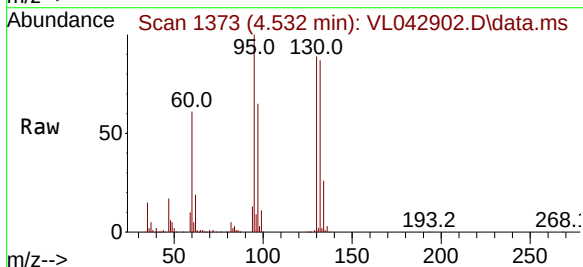
Ion Ratio Lower Upper

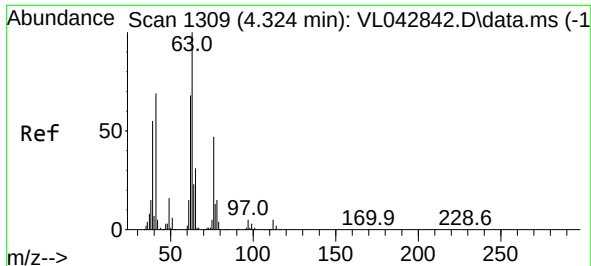
130 100

95 112.8 87.6 131.4

132 98.3 73.8 110.8

97 73.4 57.5 86.3





#39

1,2-Dichloropropane

Concen: 11.961 ppbv

RT: 4.302 min Scan# 11

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_1

ClientSampleId :

VL0908ABS01

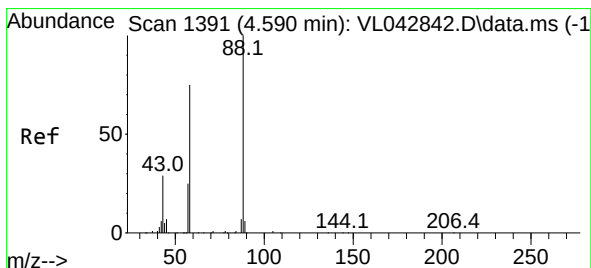
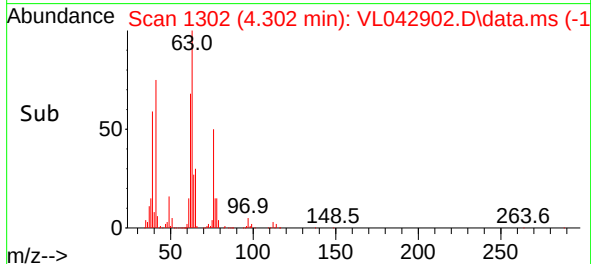
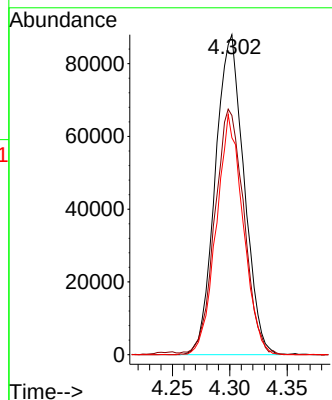
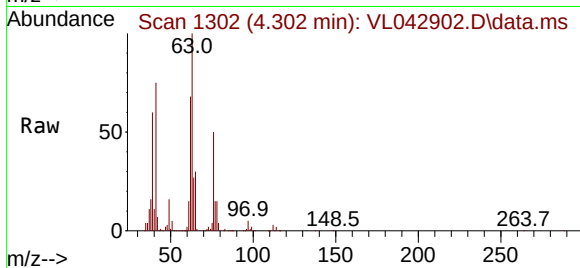
Tgt Ion: 63 Resp: 153042

Ion Ratio Lower Upper

63 100

41 74.6 55.0 82.4

62 67.7 54.4 81.6



#40

1,4-Dioxane

Concen: 10.138 ppbv

RT: 4.567 min Scan# 1384

Delta R.T. 0.006 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Tgt Ion: 88 Resp: 61682

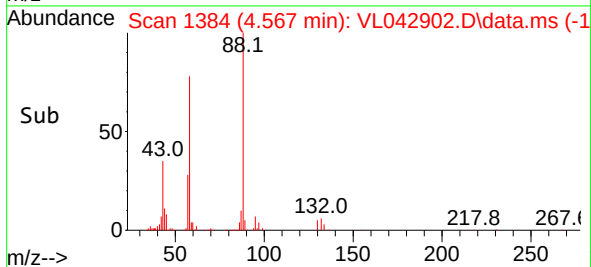
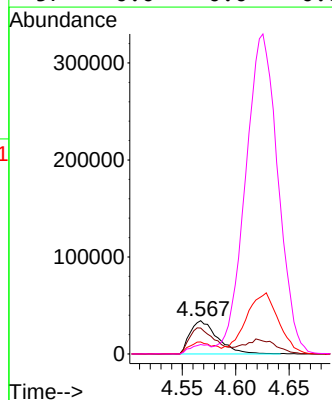
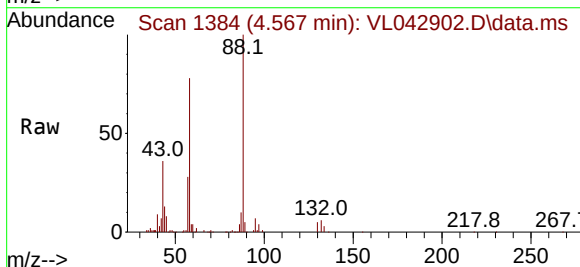
Ion Ratio Lower Upper

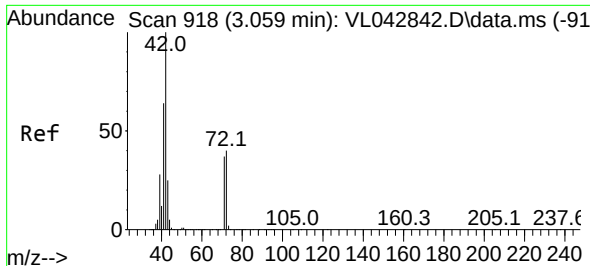
88 100

58 75.9 53.8 80.6

43 36.0 22.8 34.2#

57 0.0 0.0 0.0

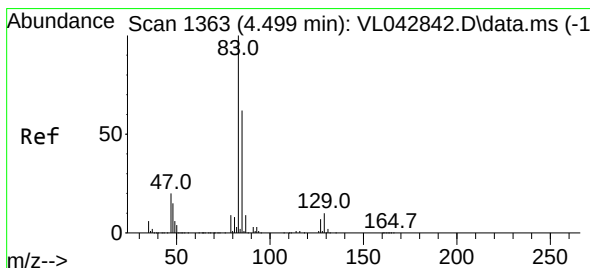
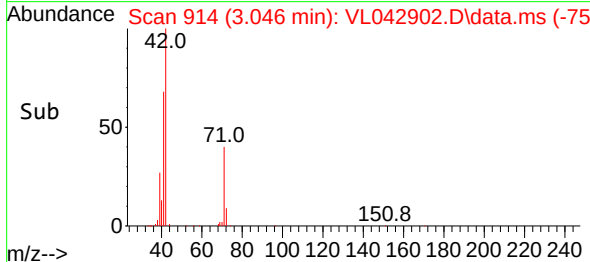
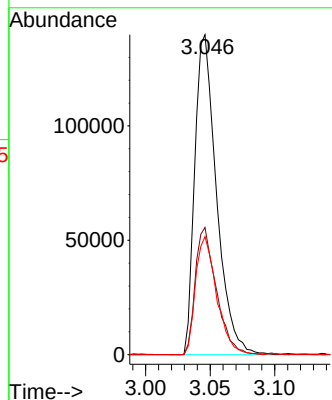
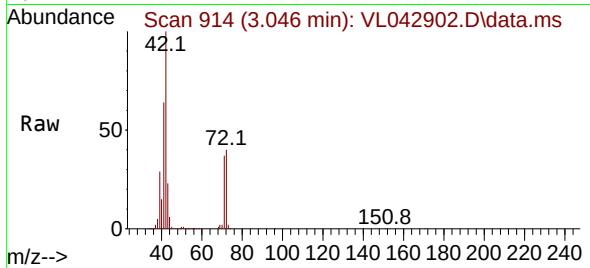




#41  
Tetrahydrofuran  
Concen: 11.927 ppbv  
RT: 3.046 min Scan# 918  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

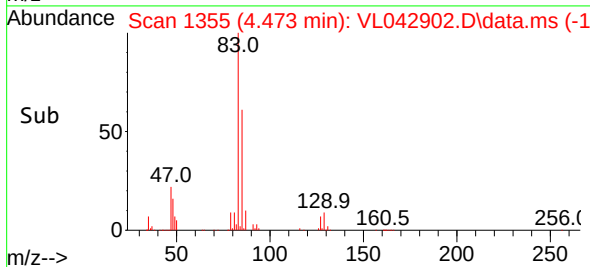
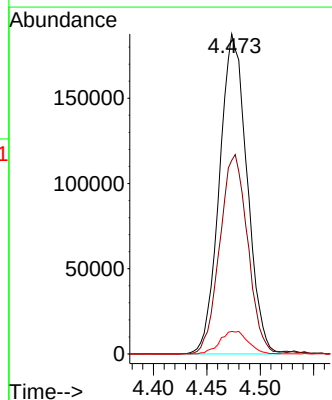
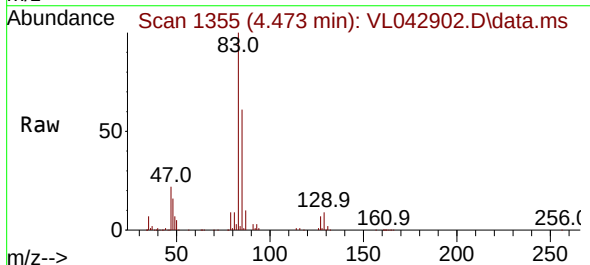
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

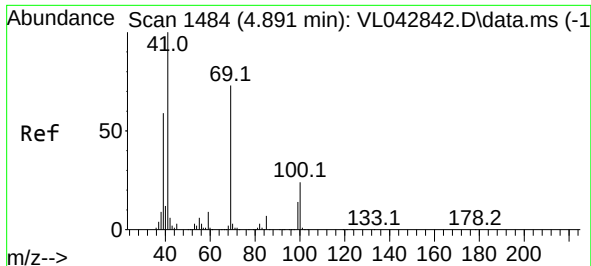
Tgt Ion: 42 Resp: 164268  
Ion Ratio Lower Upper  
42 100  
72 38.6 32.6 48.8  
71 36.0 30.0 45.0



#42  
Bromodichloromethane  
Concen: 12.351 ppbv  
RT: 4.473 min Scan# 1355  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 83 Resp: 336858  
Ion Ratio Lower Upper  
83 100  
85 60.5 49.8 74.8  
127 7.0 5.8 8.6

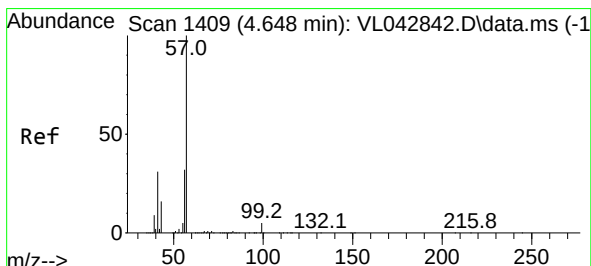
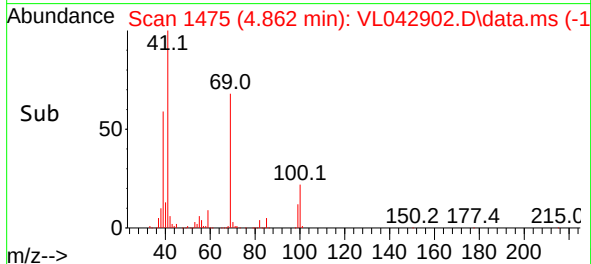
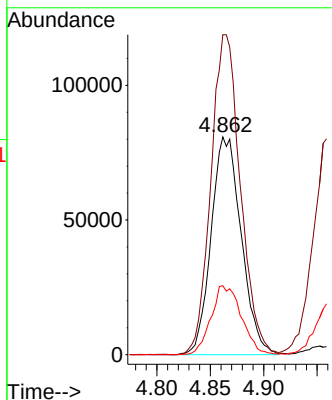
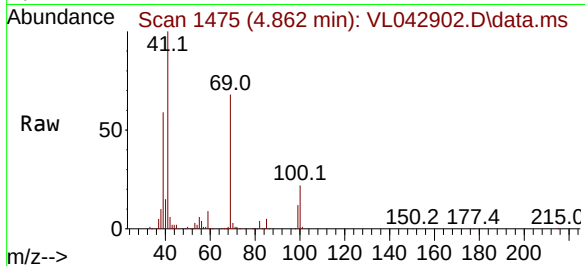




#43  
Methyl Methacrylate  
Concen: 10.979 ppbv  
RT: 4.862 min Scan# 1484  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

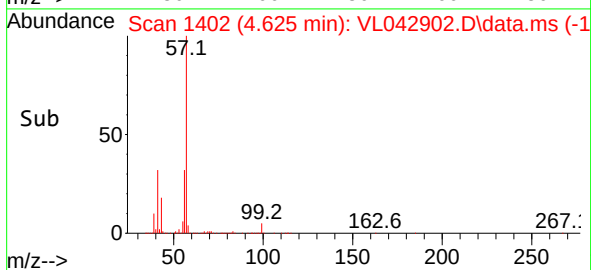
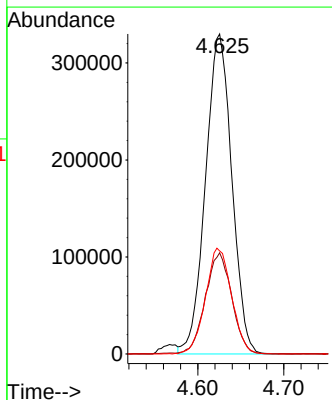
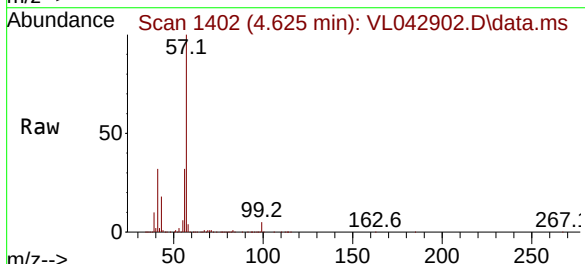
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

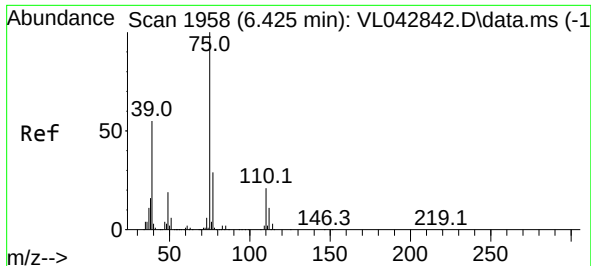
Tgt Ion: 69 Resp: 158457  
Ion Ratio Lower Upper  
69 100  
41 143.9 114.6 172.0  
100 32.1 30.2 45.4



#44  
2,2,4-Trimethylpentane  
Concen: 11.797 ppbv  
RT: 4.625 min Scan# 1402  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 57 Resp: 701486  
Ion Ratio Lower Upper  
57 100  
41 31.8 24.8 37.2  
56 32.7 25.5 38.3

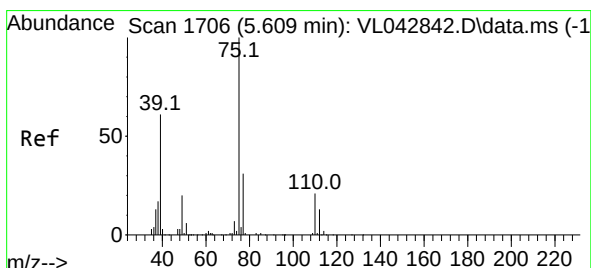
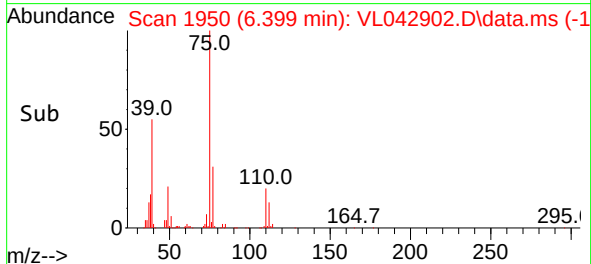
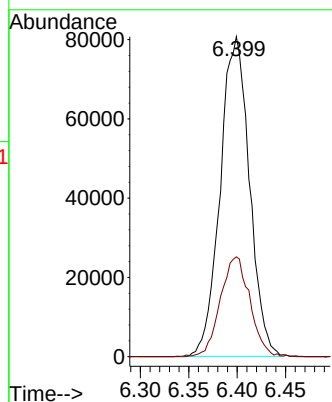
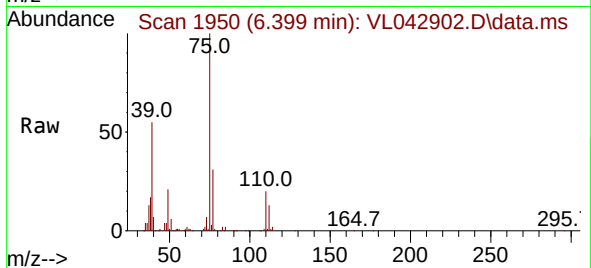




#45  
 t-1,3-Dichloropropene  
 Concen: 10.403 ppbv  
 RT: 6.399 min Scan# 1698  
 Delta R.T. 0.006 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

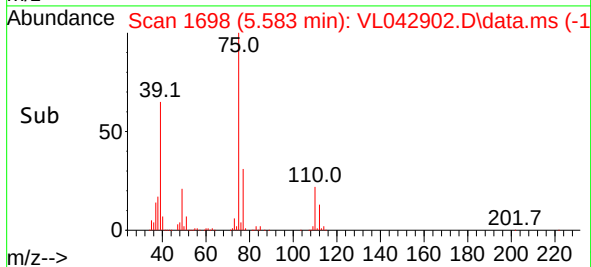
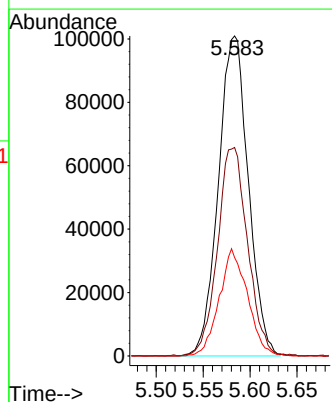
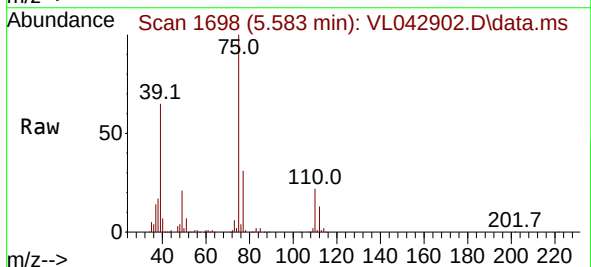
Instrument :  
 MSVOA\_1  
 ClientSampleId :  
 VL0908ABS01

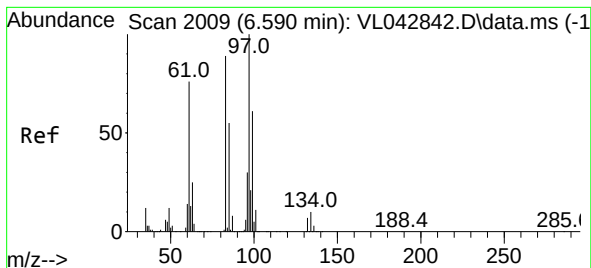
Tgt Ion: 75 Resp: 169435  
 Ion Ratio Lower Upper  
 75 100  
 77 31.2 23.8 35.6



#46  
 cis-1,3-Dichloropropene  
 Concen: 11.031 ppbv  
 RT: 5.583 min Scan# 1698  
 Delta R.T. 0.003 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

Tgt Ion: 75 Resp: 223871  
 Ion Ratio Lower Upper  
 75 100  
 39 65.0 48.9 73.3  
 77 30.8 24.9 37.3





#47

1,1,2-Trichloroethane

Concen: 11.541 ppbv

RT: 6.564 min Scan# 2009

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_1

ClientSampleId :

VL0908ABS01

Tgt Ion: 97 Resp: 156460

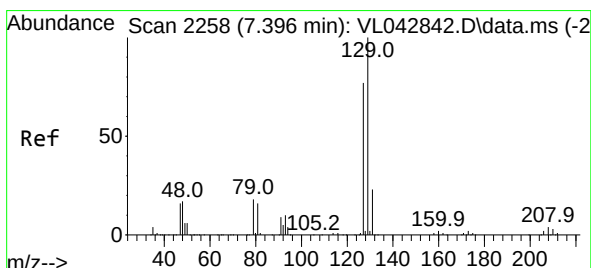
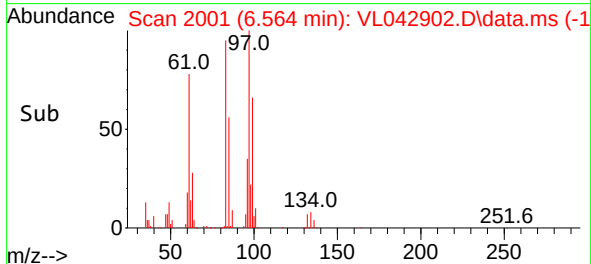
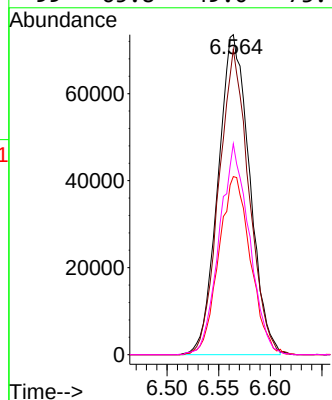
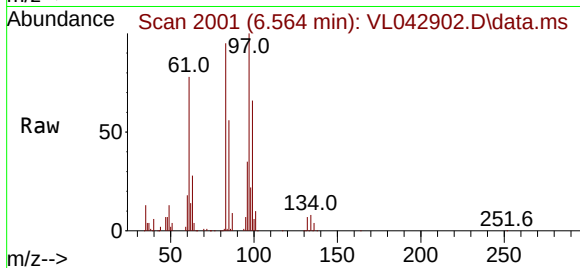
Ion Ratio Lower Upper

97 100

83 95.5 71.0 106.4

85 55.6 43.6 65.4

99 65.8 49.0 73.4



#48

Dibromochloromethane

Concen: 11.712 ppbv

RT: 7.373 min Scan# 2251

Delta R.T. 0.003 min

Lab File: VL042902.D

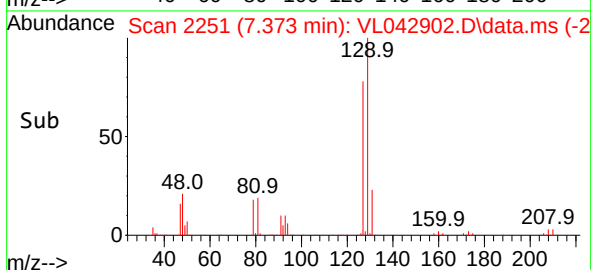
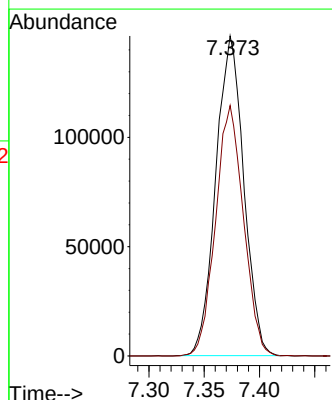
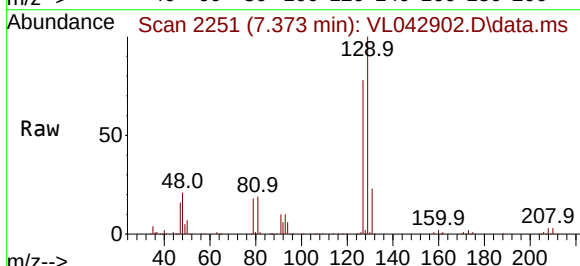
Acq: 08 Sep 2025 13:35

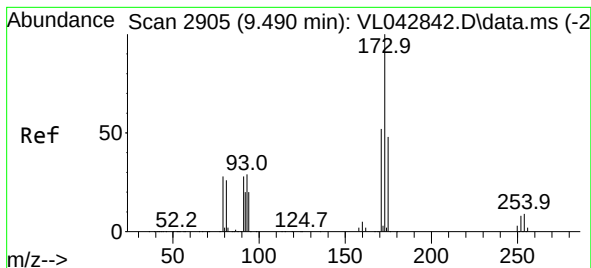
Tgt Ion: 129 Resp: 256923

Ion Ratio Lower Upper

129 100

127 78.3 39.4 118.2





#49

Bromoform

Concen: 11.222 ppbv

RT: 9.474 min Scan# 2905

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_1

ClientSampleId :

VL0908ABS01

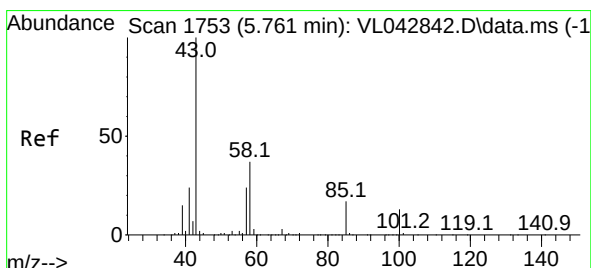
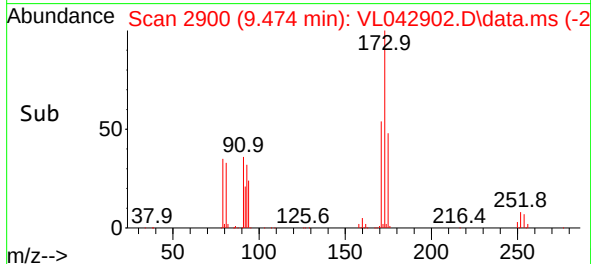
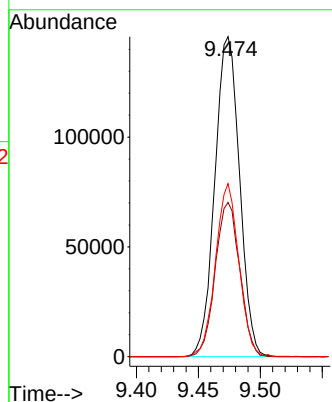
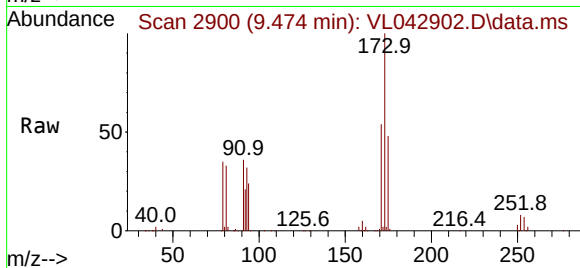
Tgt Ion:173 Resp: 203018

Ion Ratio Lower Upper

173 100

175 47.9 39.2 58.8

171 51.1 41.3 61.9



#50

4-Methyl-2-Pentanone

Concen: 11.688 ppbv

RT: 5.732 min Scan# 1744

Delta R.T. 0.003 min

Lab File: VL042902.D

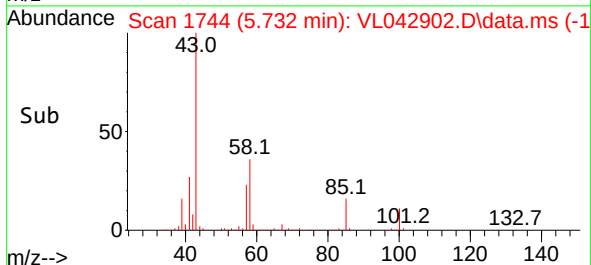
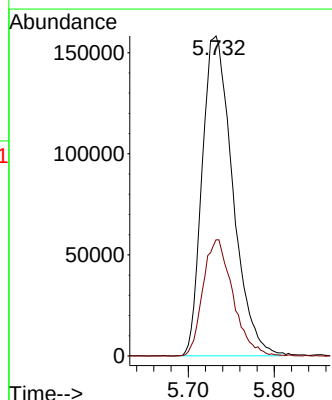
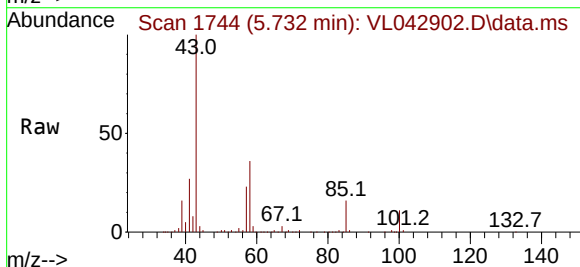
Acq: 08 Sep 2025 13:35

Tgt Ion: 43 Resp: 390291

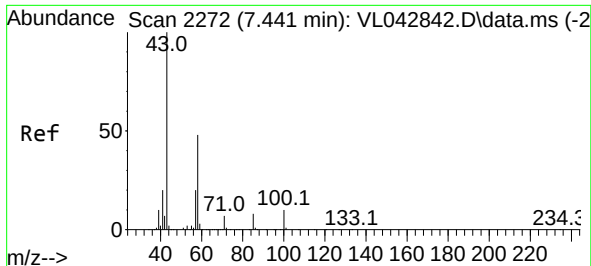
Ion Ratio Lower Upper

43 100

58 35.7 29.8 44.8



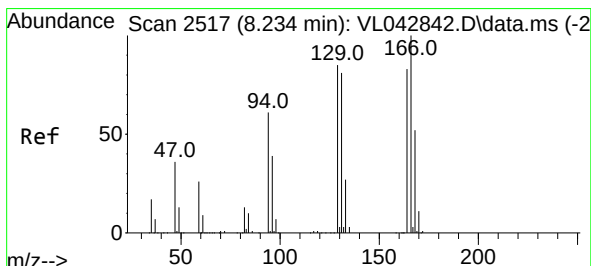
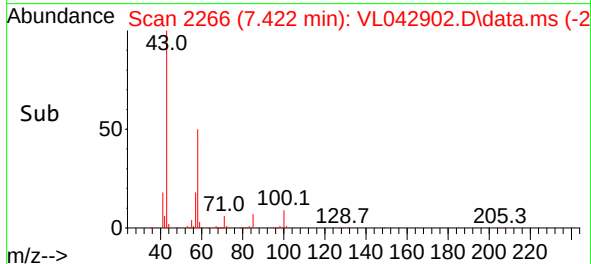
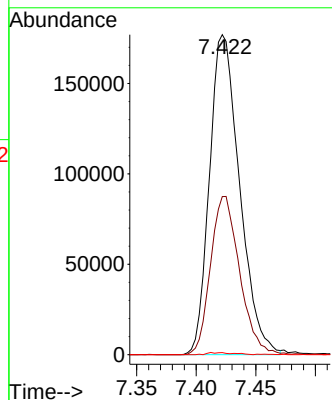
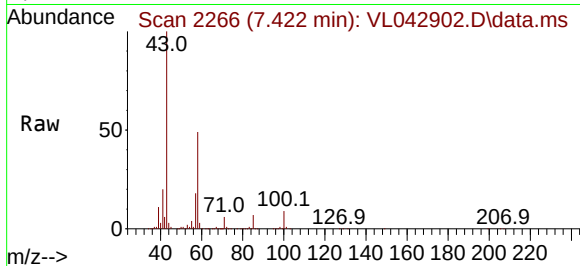




#51  
2-Hexanone  
Concen: 11.858 ppbv  
RT: 7.422 min Scan# 2115  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

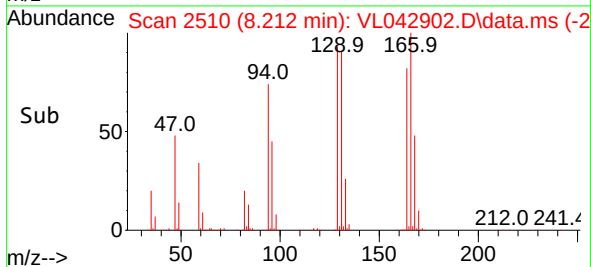
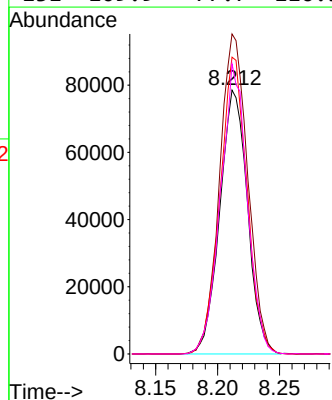
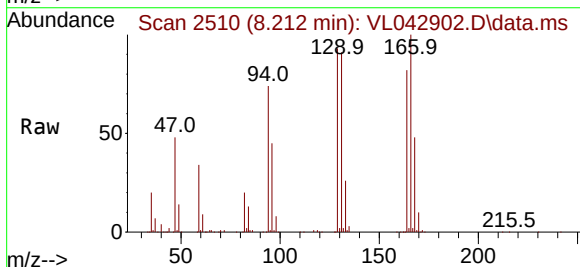
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

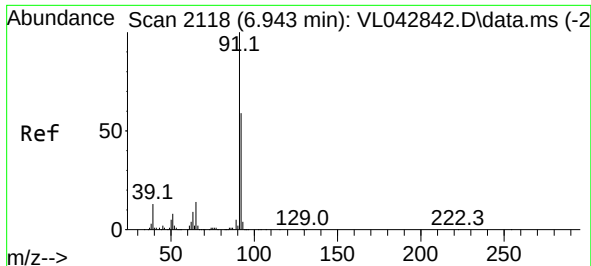
Tgt Ion: 43 Resp: 311589  
Ion Ratio Lower Upper  
43 100  
58 47.8 41.0 61.6  
98 0.6 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 9.644 ppbv  
RT: 8.212 min Scan# 2510  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 164 Resp: 122229  
Ion Ratio Lower Upper  
164 100  
166 121.3 96.5 144.7  
129 112.5 81.8 122.6  
131 109.9 77.7 116.5

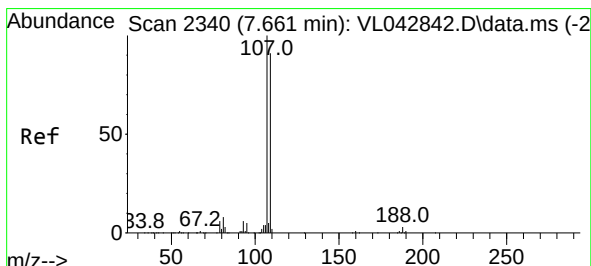
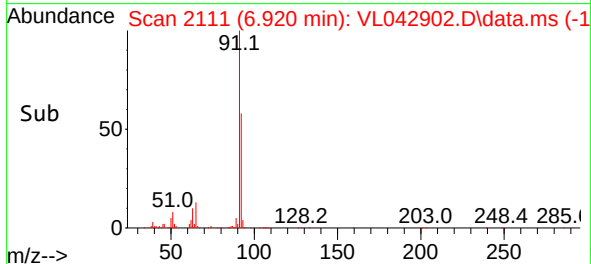
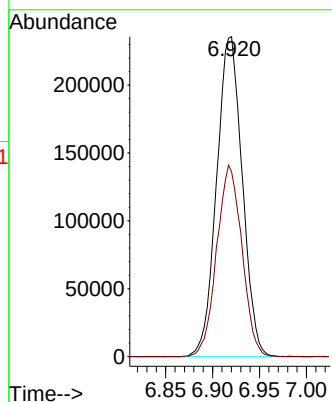
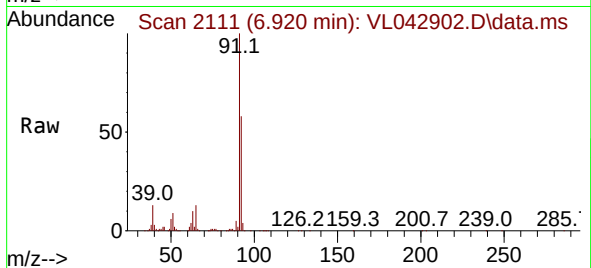




#53  
Toluene  
Concen: 10.752 ppbv  
RT: 6.920 min Scan# 2111  
Delta R.T. 0.006 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

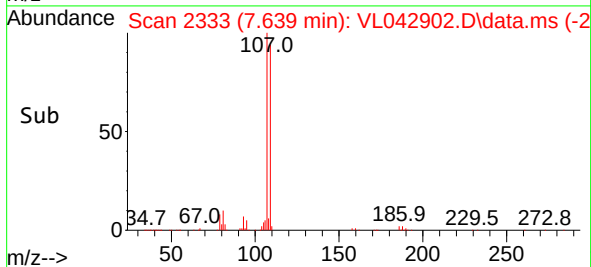
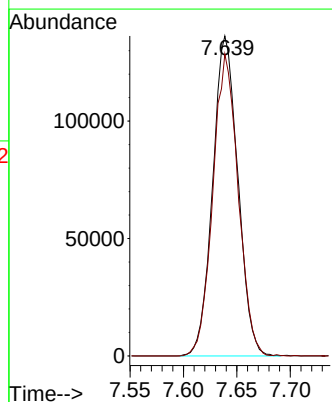
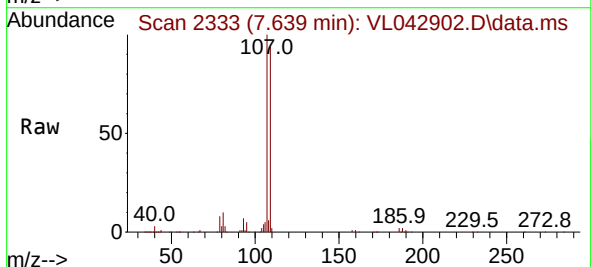
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

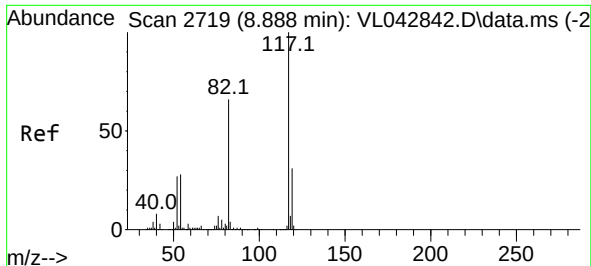
Tgt Ion: 91 Resp: 447844  
Ion Ratio Lower Upper  
91 100  
92 58.9 47.8 71.6



#54  
1,2-Dibromoethane  
Concen: 11.277 ppbv  
RT: 7.639 min Scan# 2333  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 107 Resp: 223417  
Ion Ratio Lower Upper  
107 100  
109 94.3 72.5 108.7

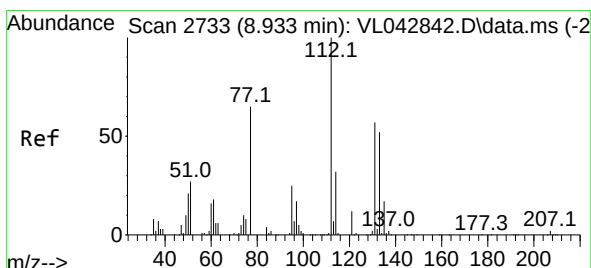
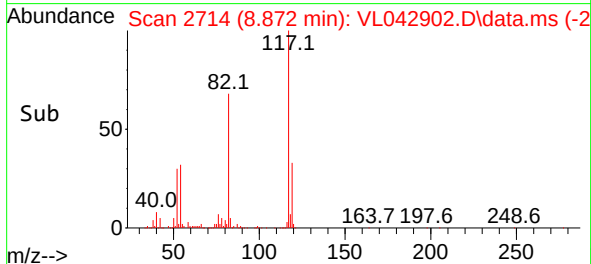
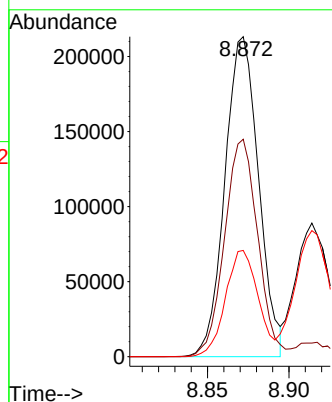
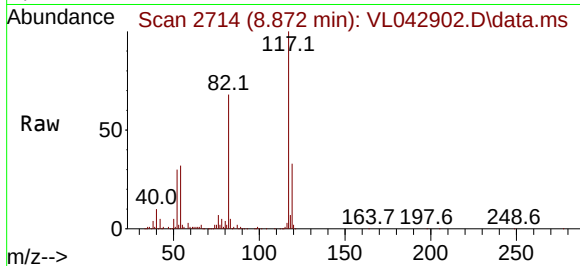




#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.872 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

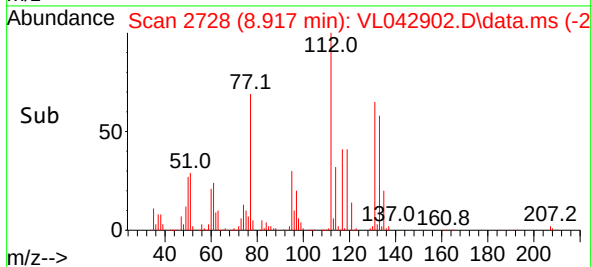
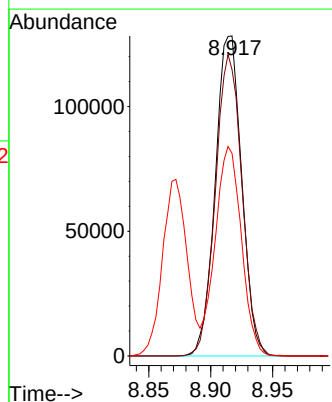
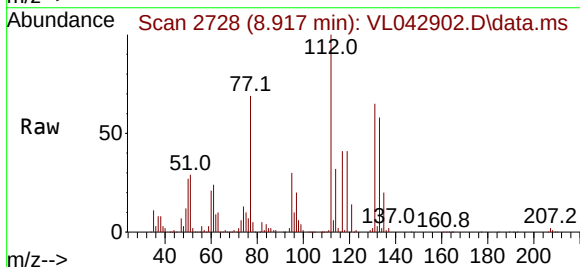
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

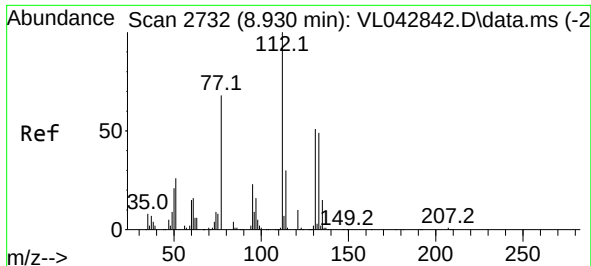
Tgt Ion:117 Resp: 306385  
Ion Ratio Lower Upper  
117 100  
82 71.5 54.6 81.8  
119 32.3 25.9 38.9



#56  
1,1,1,2-Tetrachloroethane  
Concen: 12.050 ppbv  
RT: 8.917 min Scan# 2728  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:131 Resp: 190922  
Ion Ratio Lower Upper  
131 100  
133 94.5 77.4 116.0  
119 64.9 51.2 76.8

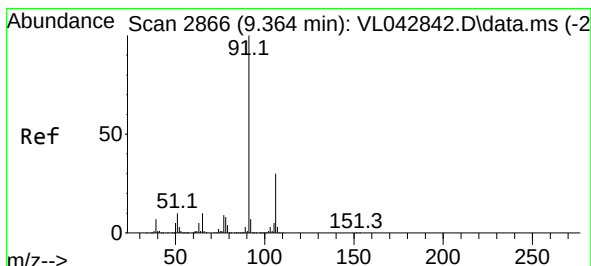
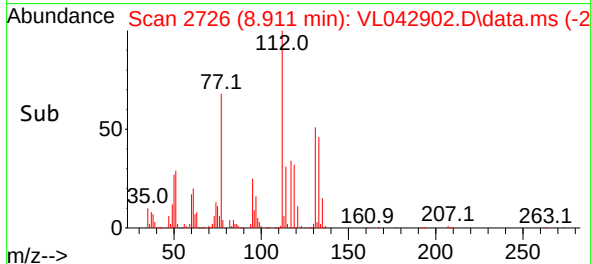
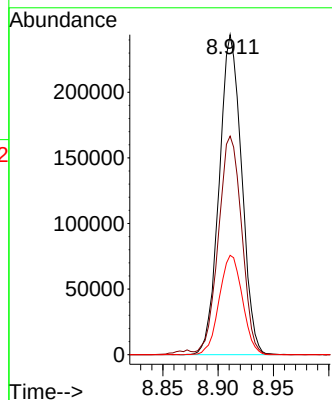
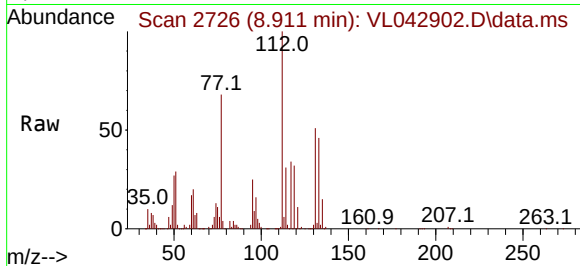




#57  
Chlorobenzene  
Concen: 11.855 ppbv  
RT: 8.911 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

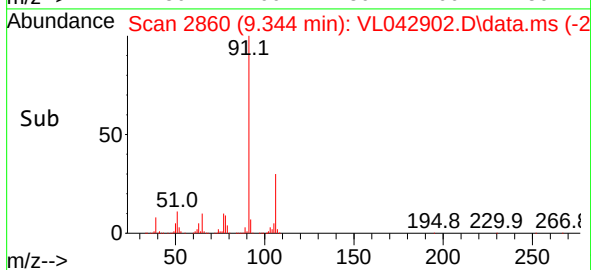
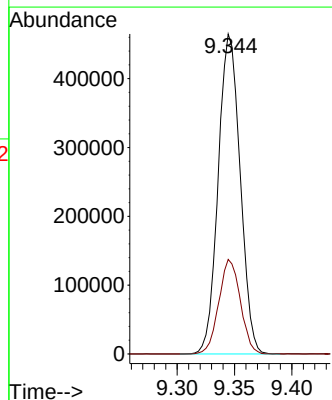
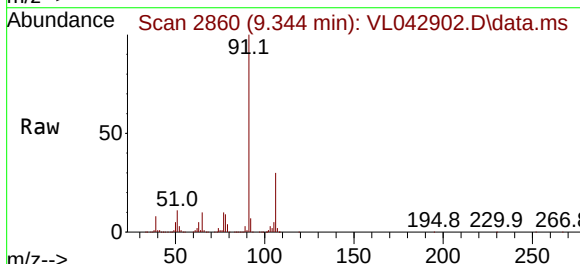
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

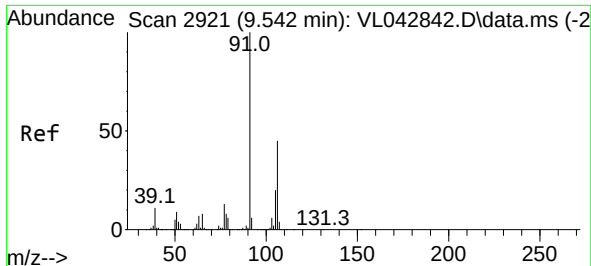
Tgt Ion:112 Resp: 345342  
Ion Ratio Lower Upper  
112 100  
77 68.3 55.5 83.3  
114 31.0 27.2 33.2



#58  
Ethyl Benzene  
Concen: 11.442 ppbv  
RT: 9.344 min Scan# 2860  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 618650  
Ion Ratio Lower Upper  
91 100  
106 29.6 23.9 35.9





#59

m/p-Xylene

Concen: 11.407 ppbv

RT: 9.542 min Scan# 2921

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_L

ClientSampleId :

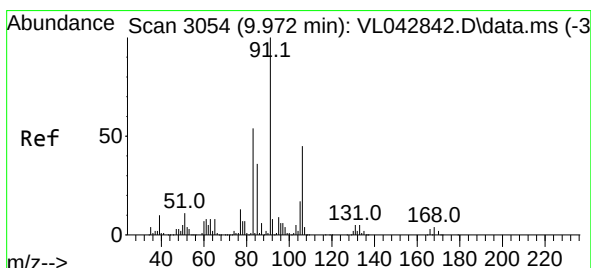
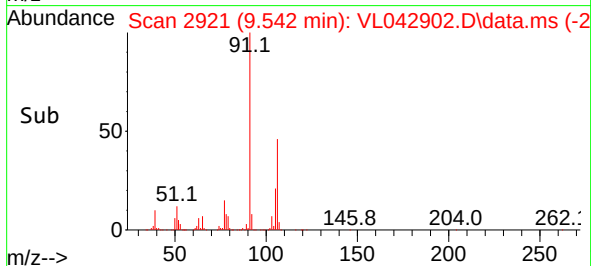
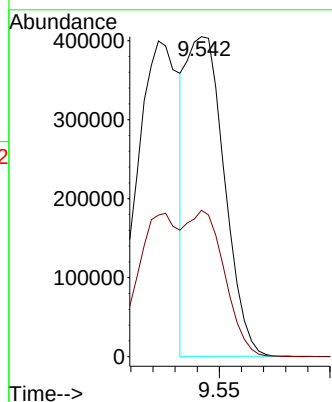
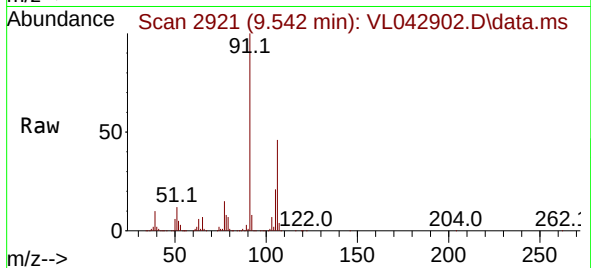
VL0908ABS01

Tgt Ion: 91 Resp: 483410

Ion Ratio Lower Upper

91 100

106 95.0 0.0 0.0#



#60

o-Xylene

Concen: 11.844 ppbv

RT: 9.956 min Scan# 3049

Delta R.T. 0.003 min

Lab File: VL042902.D

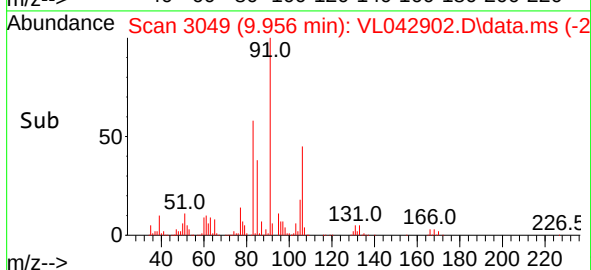
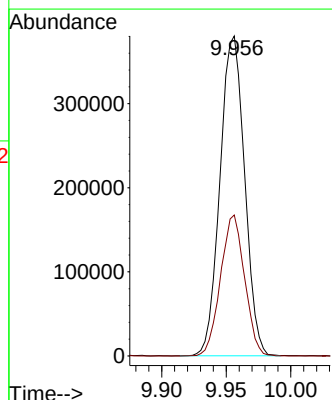
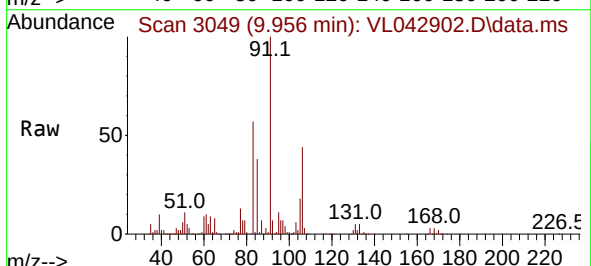
Acq: 08 Sep 2025 13:35

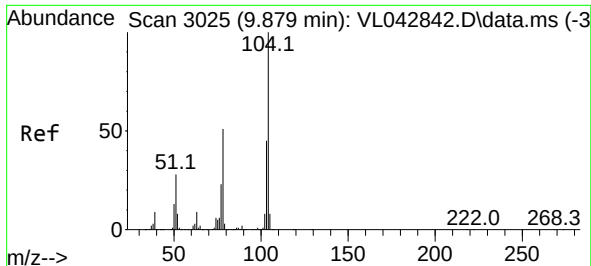
Tgt Ion: 91 Resp: 504922

Ion Ratio Lower Upper

91 100

106 43.0 21.8 65.4

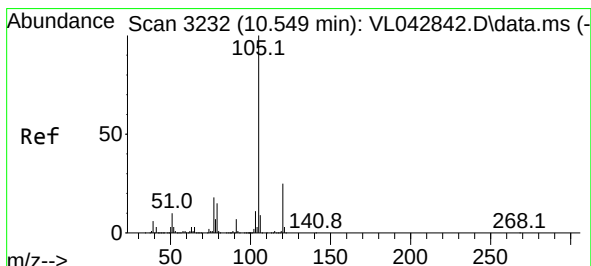
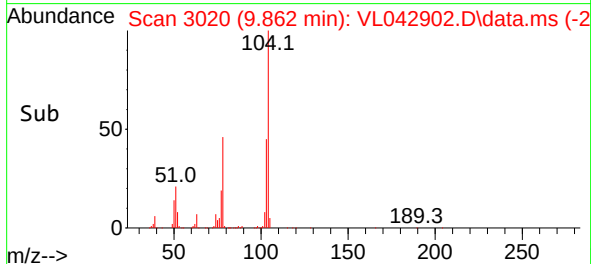
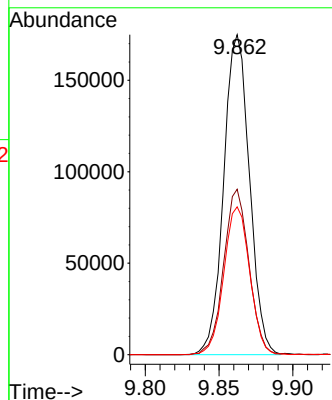
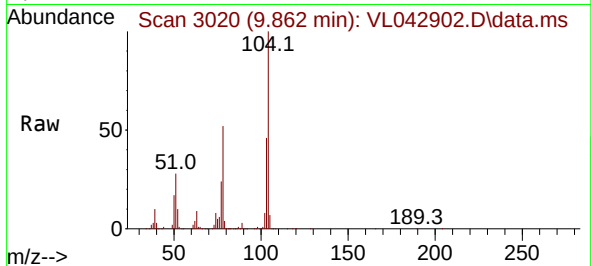




#61  
Styrene  
Concen: 10.644 ppbv  
RT: 9.862 min Scan# 3025  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

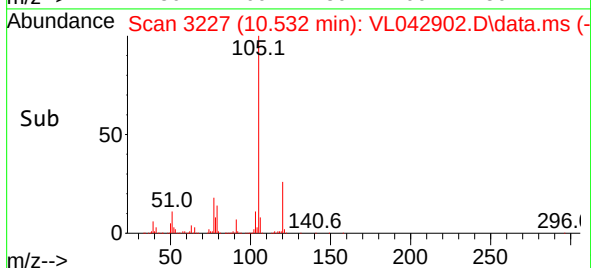
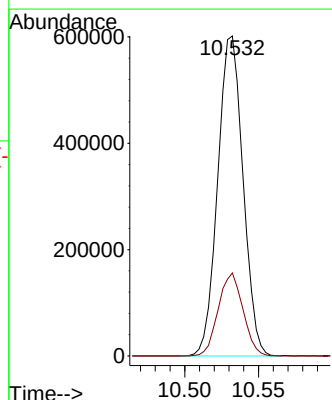
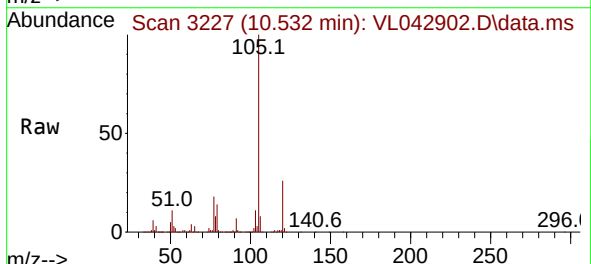
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

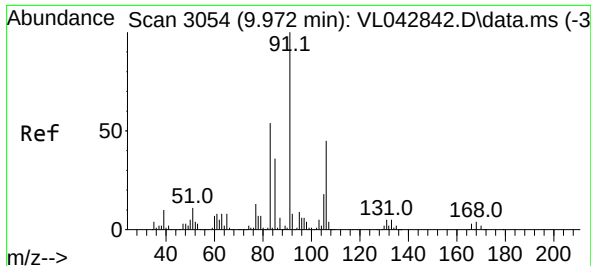
Tgt Ion:104 Resp: 212594  
Ion Ratio Lower Upper  
104 100  
78 50.7 40.6 61.0  
103 46.6 37.7 56.5



#62  
Isopropylbenzene  
Concen: 11.521 ppbv  
RT: 10.532 min Scan# 3227  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 717761  
Ion Ratio Lower Upper  
105 100  
120 25.3 20.6 30.8

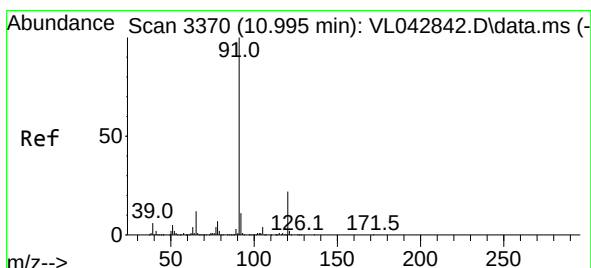
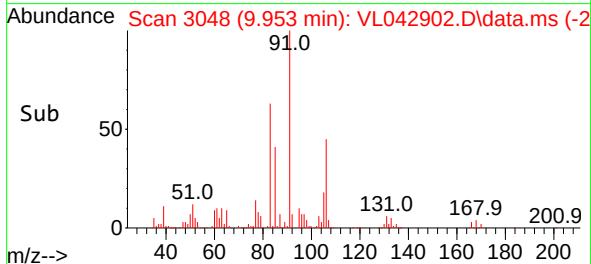
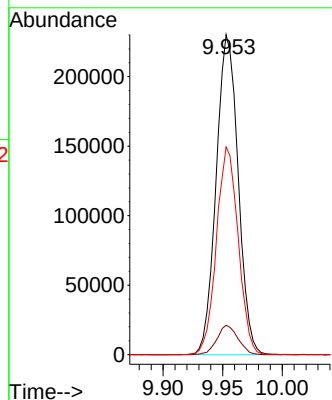
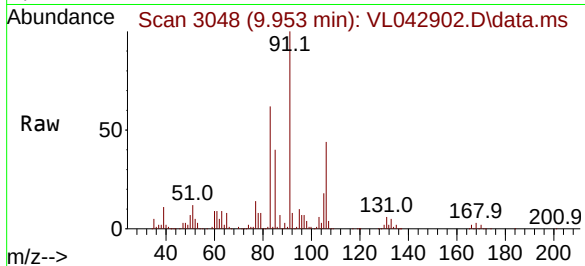




#63  
1,1,2,2-Tetrachloroethane  
Concen: 12.588 ppbv  
RT: 9.953 min Scan# 3048  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

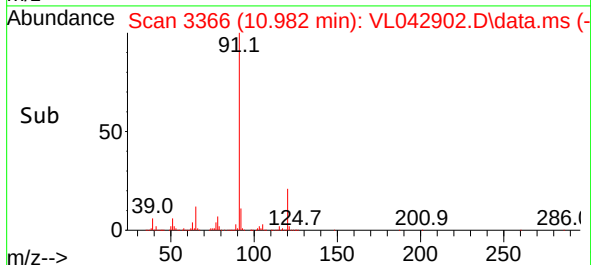
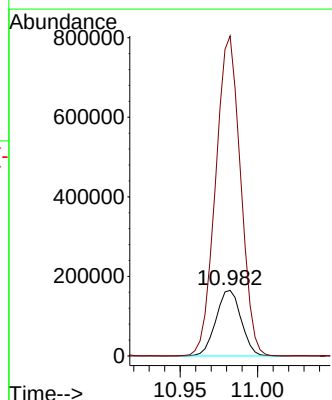
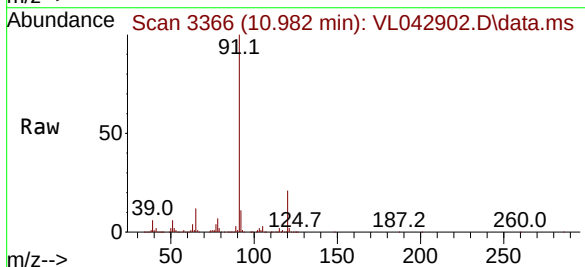
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

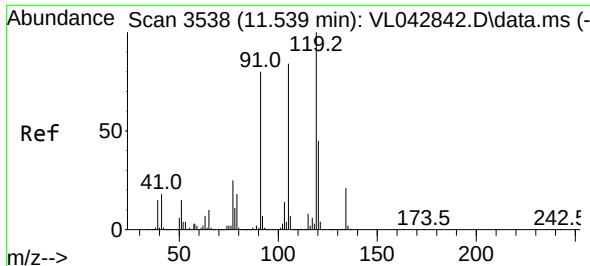
Tgt Ion: 83 Resp: 295111  
Ion Ratio Lower Upper  
83 100  
131 8.8 4.8 14.3  
85 64.3 32.3 96.8



#64  
n-propylbenzene  
Concen: 11.717 ppbv  
RT: 10.982 min Scan# 3366  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:120 Resp: 186258  
Ion Ratio Lower Upper  
120 100  
91 484.6 375.8 563.6

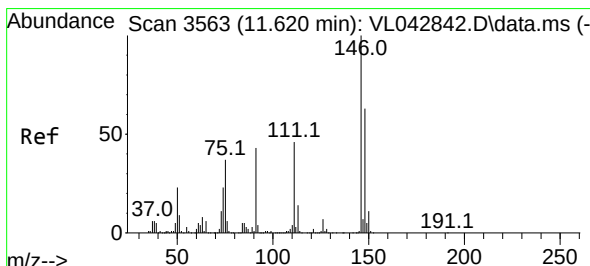
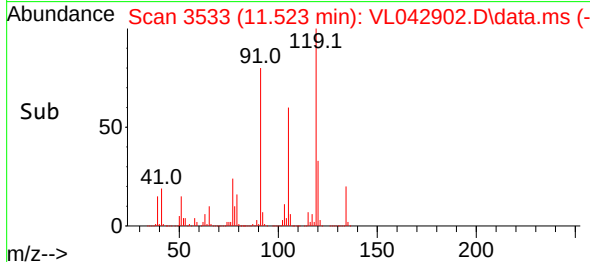
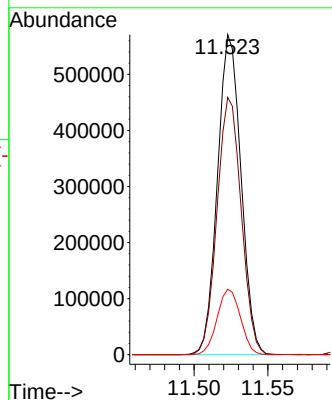
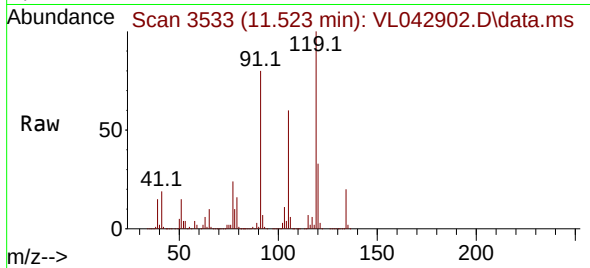




#65  
tert-Butylbenzene  
Concen: 11.541 ppbv  
RT: 11.523 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

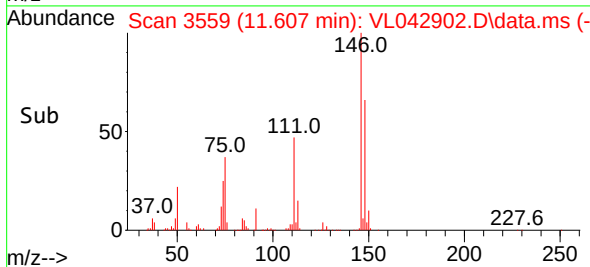
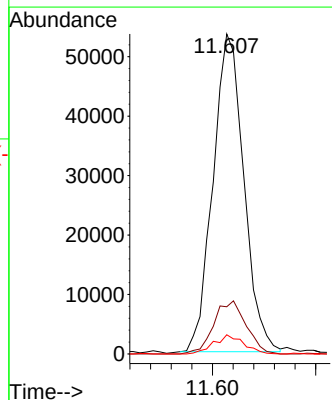
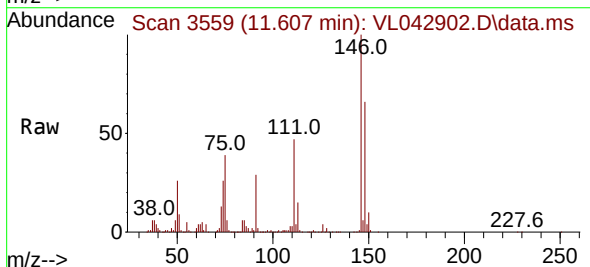
Instrument :  
MSVOA\_L  
ClientSampleId :  
VL0908ABS01

Tgt Ion:119 Resp: 633844  
Ion Ratio Lower Upper  
119 100  
91 82.5 63.9 95.9  
134 20.3 17.0 25.4

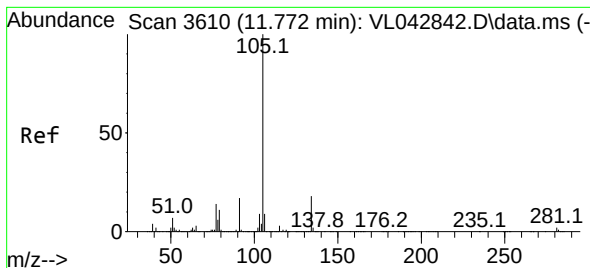


#66  
Benzyl Chloride  
Concen: 7.954 ppbv  
RT: 11.607 min Scan# 3559  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 55458  
Ion Ratio Lower Upper  
91 100  
126 17.6 14.2 21.4  
128 5.9 5.0 7.6



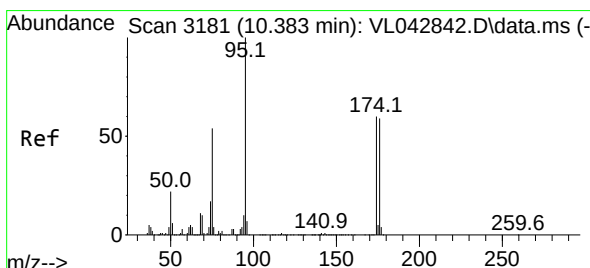
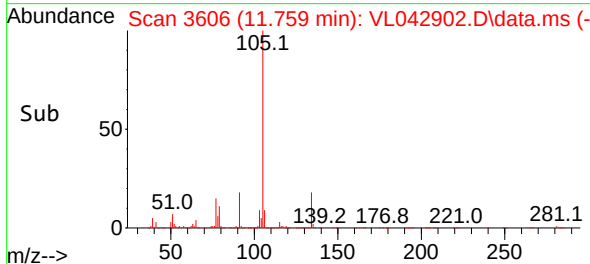
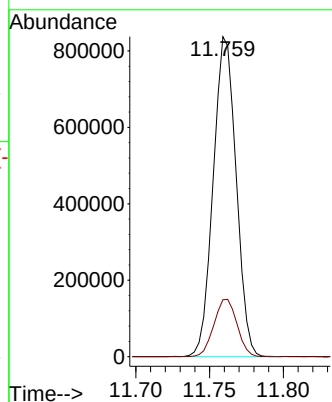
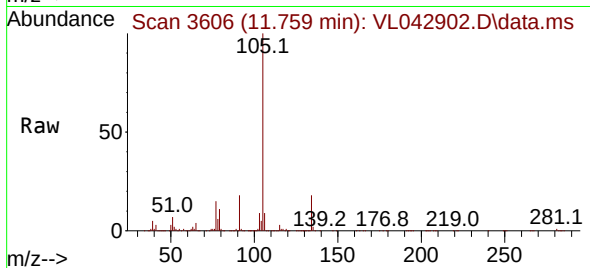




#67  
sec-Butylbenzene  
Concen: 11.739 ppbv  
RT: 11.759 min Scan# 3176  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

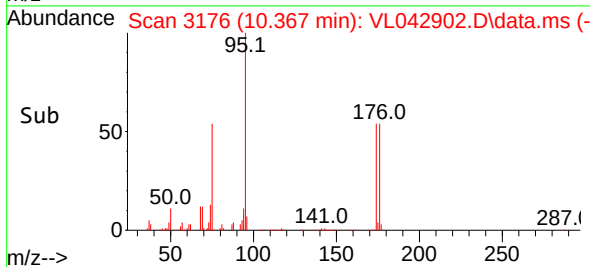
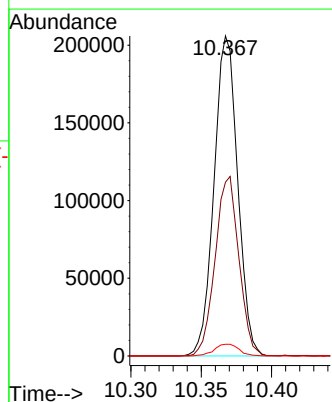
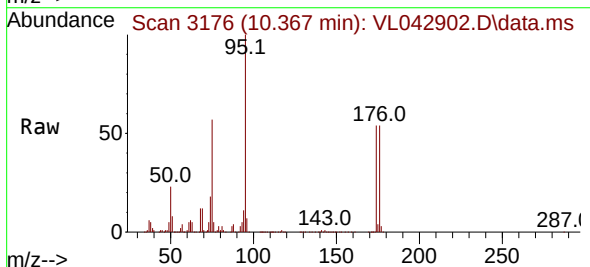
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

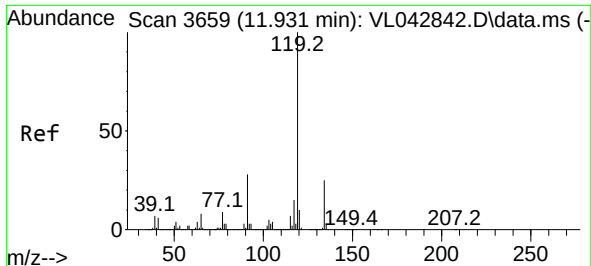
Tgt Ion:105 Resp: 904977  
Ion Ratio Lower Upper  
105 100  
134 18.2 14.9 22.3



#68  
1-Bromo-4-Fluorobenzene  
Concen: 10.481 ppbv  
RT: 10.367 min Scan# 3176  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 95 Resp: 240840  
Ion Ratio Lower Upper  
95 100  
174 56.6 48.4 72.6  
175 3.8 3.8 5.8

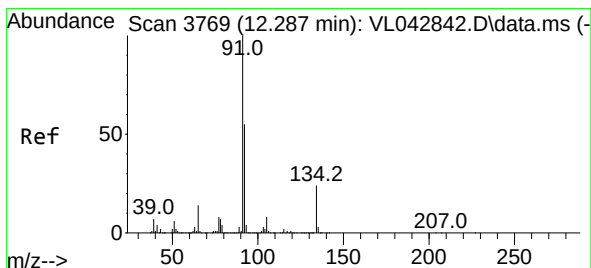
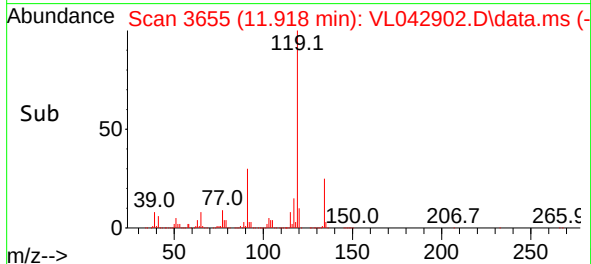
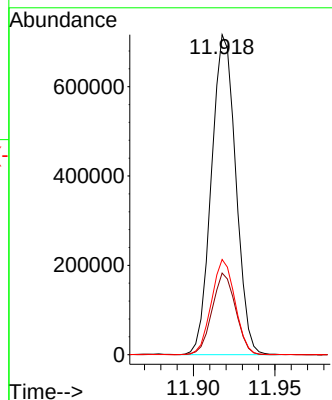
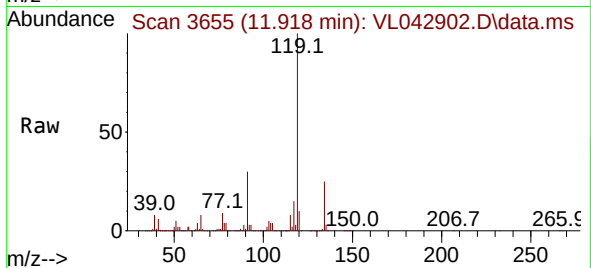




#69  
p-Isopropyltoluene  
Concen: 11.229 ppbv  
RT: 11.918 min Scan# 3655  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

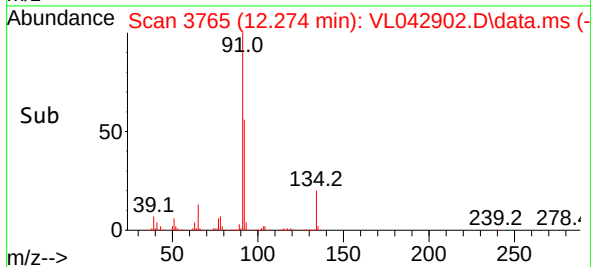
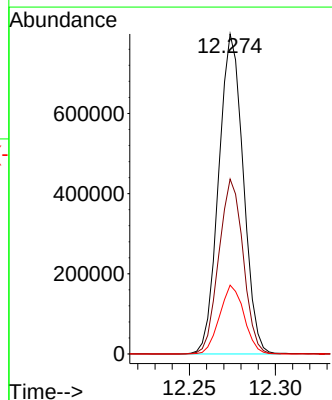
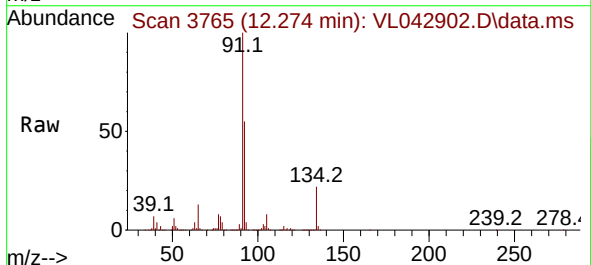
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

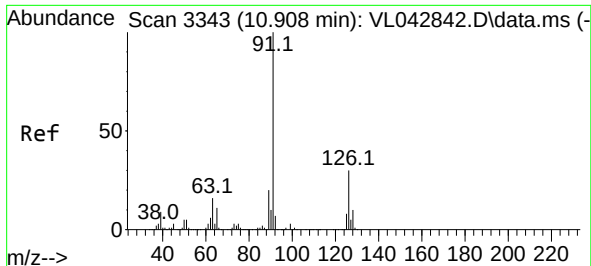
Tgt Ion:119 Resp: 743217  
Ion Ratio Lower Upper  
119 100  
134 24.6 20.6 30.8  
91 28.9 22.6 34.0



#70  
n-Butylbenzene  
Concen: 12.084 ppbv  
RT: 12.274 min Scan# 3765  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 91 Resp: 793205  
Ion Ratio Lower Upper  
91 100  
92 54.3 44.6 66.8  
134 21.4 19.0 28.4

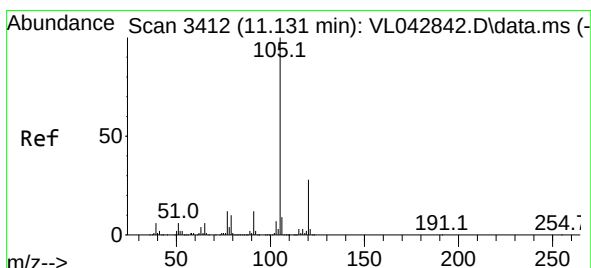
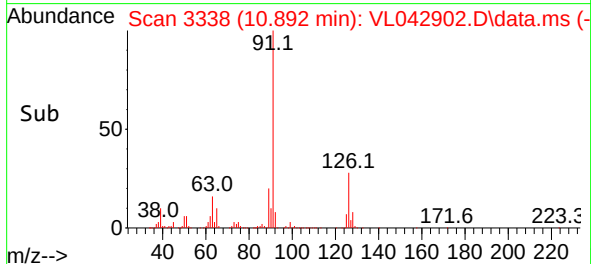
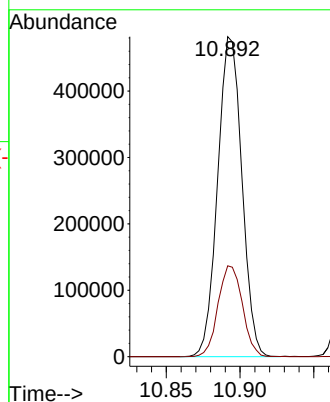
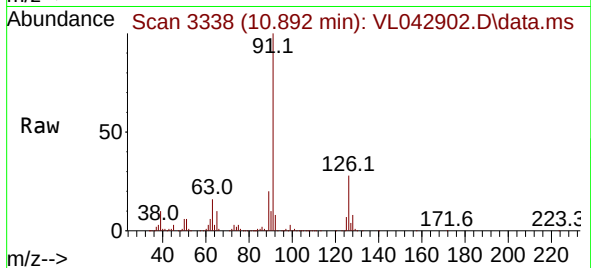




#71  
2-Chlorotoluene  
Concen: 11.398 ppbv  
RT: 10.892 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

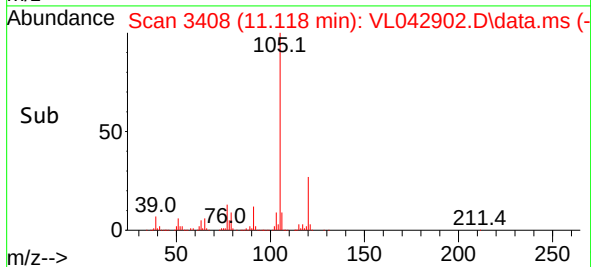
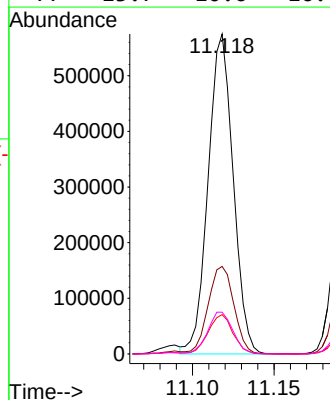
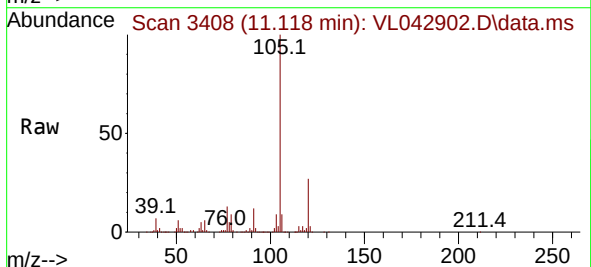
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

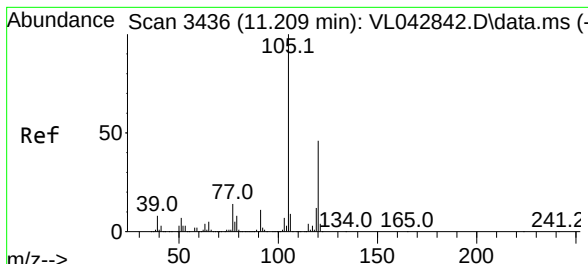
Tgt Ion: 91 Resp: 551398  
Ion Ratio Lower Upper  
91 100  
126 28.5 12.0 47.8



#72  
4-Ethyltoluene  
Concen: 11.871 ppbv  
RT: 11.118 min Scan# 3408  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion: 105 Resp: 613510  
Ion Ratio Lower Upper  
105 100  
120 28.9 23.4 35.2  
91 12.5 9.8 14.6  
77 13.7 10.6 16.0



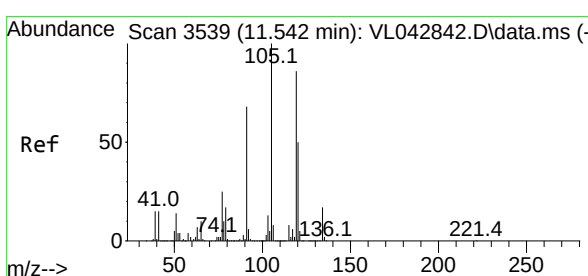
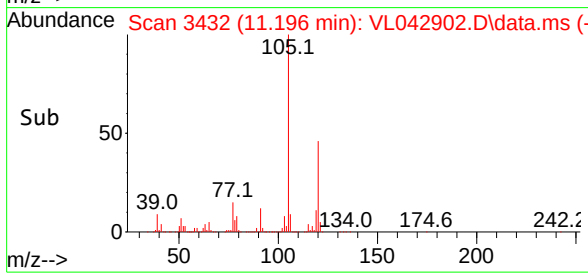
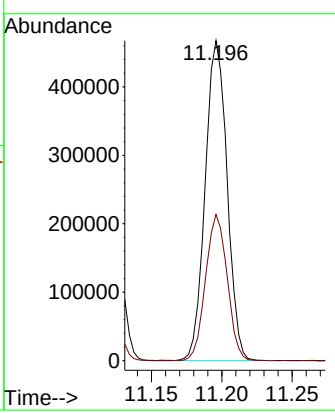
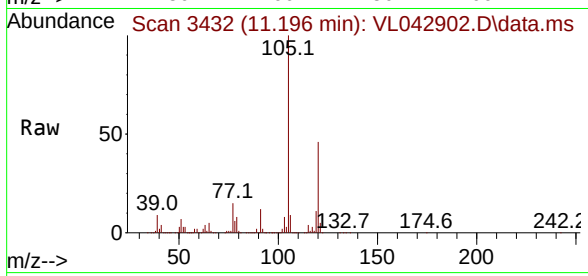


#73  
 1,3,5-Trimethylbenzene  
 Concen: 11.496 ppbv  
 RT: 11.196 min Scan# 3432  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

Instrument : MSVOA\_1  
 ClientSampleId : VL0908ABS01

Tgt Ion:105 Resp: 505222

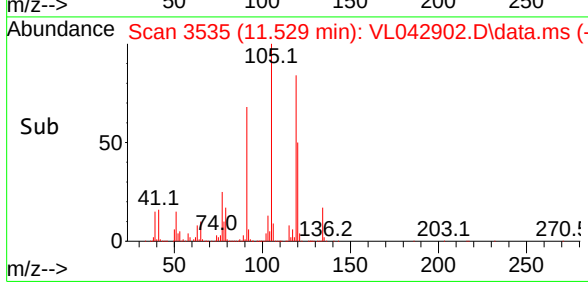
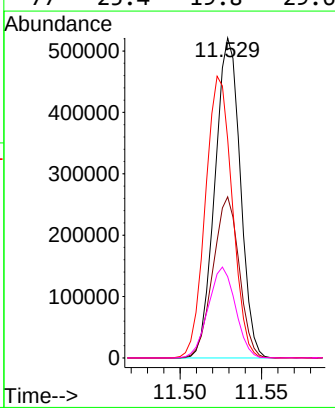
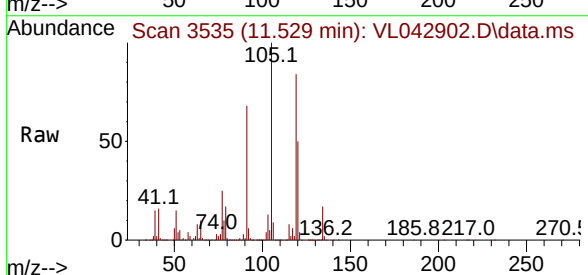
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 45.7  | 36.6  | 54.8  |

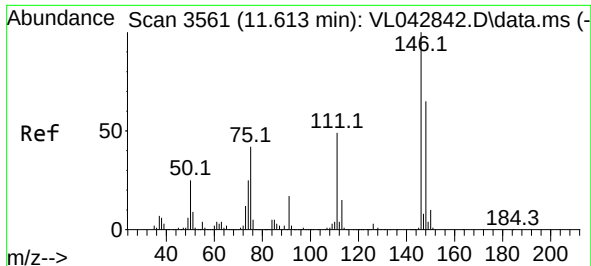


#74  
 1,2,4-Trimethylbenzene  
 Concen: 11.668 ppbv  
 RT: 11.529 min Scan# 3535  
 Delta R.T. -0.000 min  
 Lab File: VL042902.D  
 Acq: 08 Sep 2025 13:35

Tgt Ion:105 Resp: 562868

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 105 | 100   |       |       |
| 120 | 50.3  | 39.8  | 59.6  |
| 91  | 68.3  | 54.2  | 81.4  |
| 77  | 25.4  | 19.8  | 29.6  |

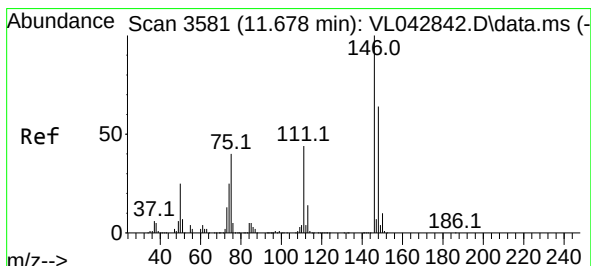
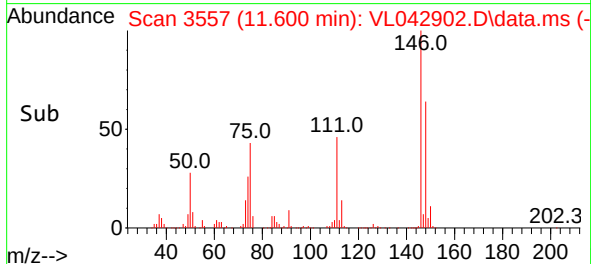
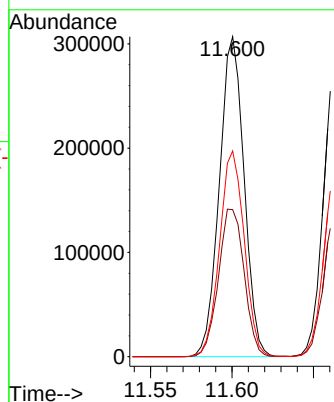
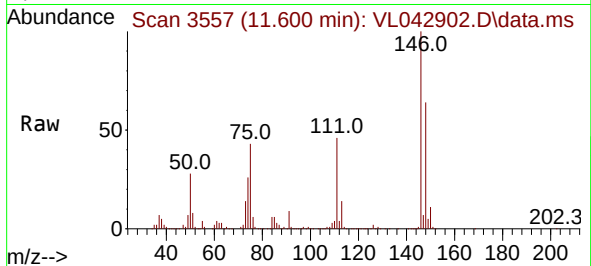




#75  
1,3-Dichlorobenzene  
Concen: 11.778 ppbv  
RT: 11.600 min Scan# 3557  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

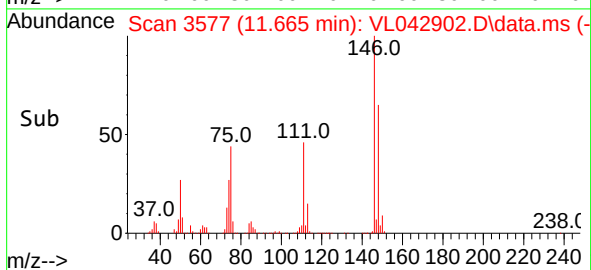
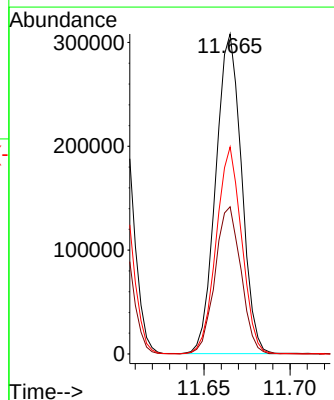
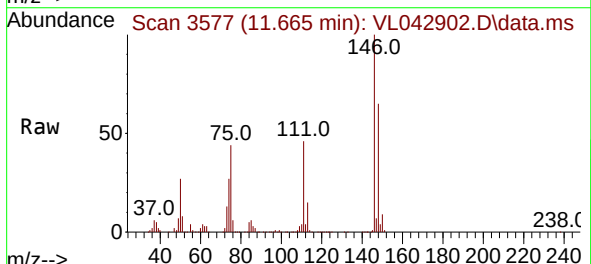
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

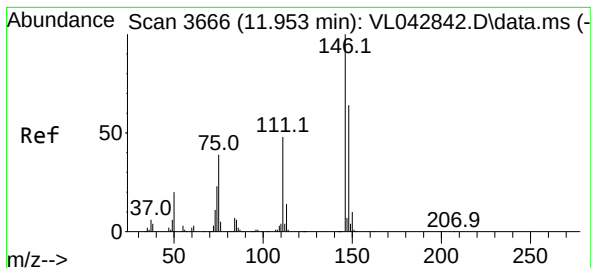
Tgt Ion:146 Resp: 322979  
Ion Ratio Lower Upper  
146 100  
111 48.0 23.9 71.7  
148 64.2 31.4 94.0



#76  
1,4-Dichlorobenzene  
Concen: 11.563 ppbv  
RT: 11.665 min Scan# 3577  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:146 Resp: 320689  
Ion Ratio Lower Upper  
146 100  
111 46.3 22.7 68.1  
148 64.1 31.8 95.3





#77

1,2-Dichlorobenzene

Concen: 11.524 ppbv

RT: 11.940 min Scan# 30

Delta R.T. -0.000 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_1

ClientSampleId :

VL0908ABS01

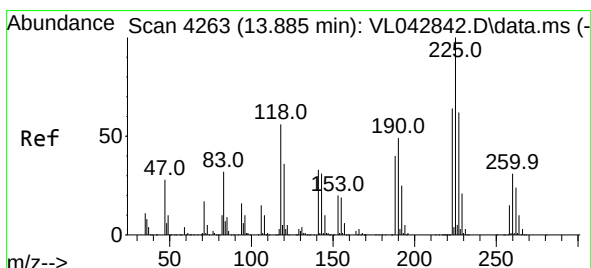
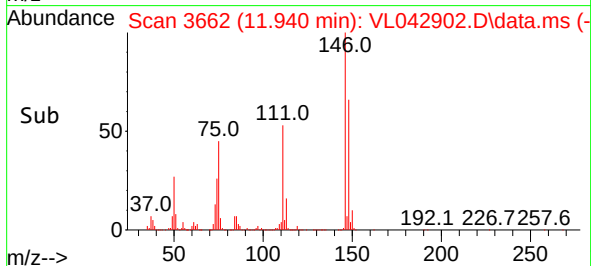
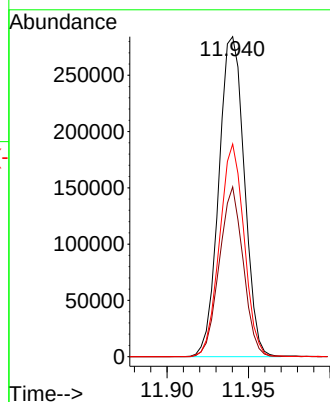
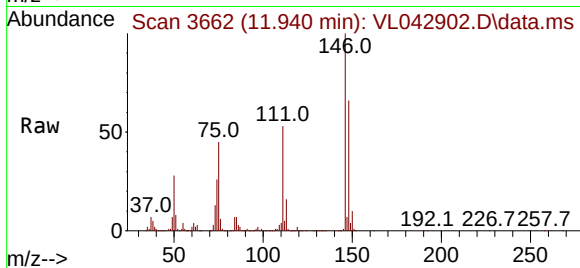
Tgt Ion:146 Resp: 309433

Ion Ratio Lower Upper

146 100

111 49.7 24.6 74.0

148 63.7 32.0 96.0



#78

Hexachloro-1,3-Butadiene

Concen: 8.542 ppbv

RT: 13.876 min Scan# 4260

Delta R.T. 0.003 min

Lab File: VL042902.D

Acq: 08 Sep 2025 13:35

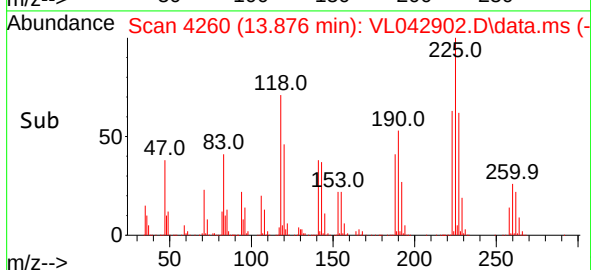
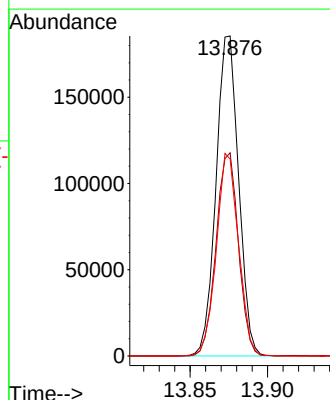
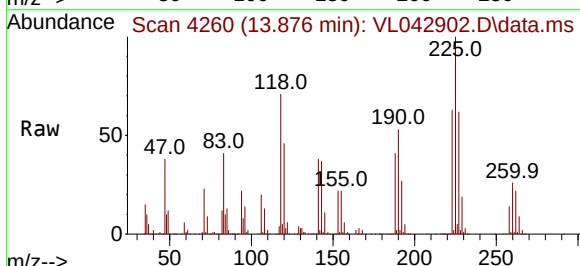
Tgt Ion:225 Resp: 187990

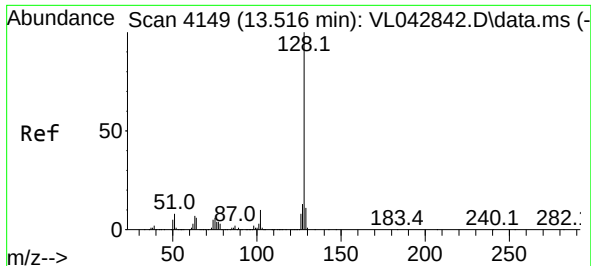
Ion Ratio Lower Upper

225 100

223 63.0 51.4 77.2

227 62.1 51.9 77.9

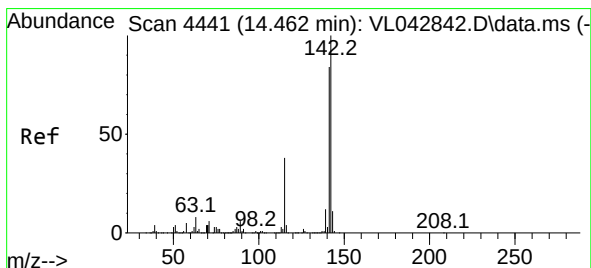
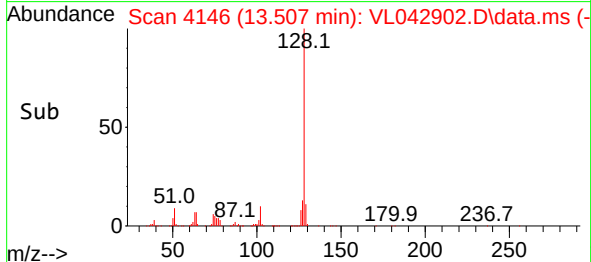
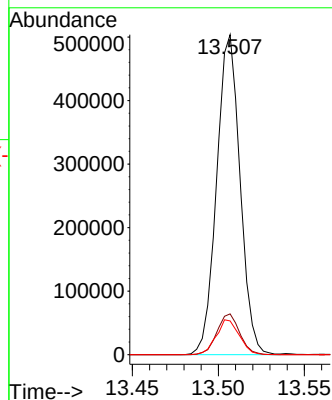
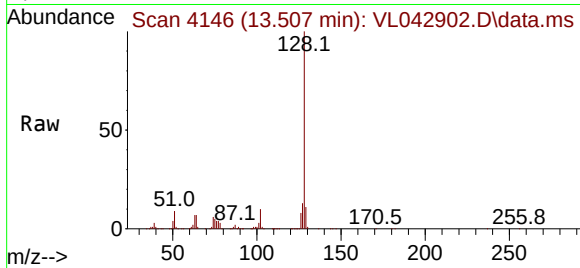




#79  
Naphthalene  
Concen: 10.914 ppbv  
RT: 13.507 min Scan# 4149  
Delta R.T. 0.003 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

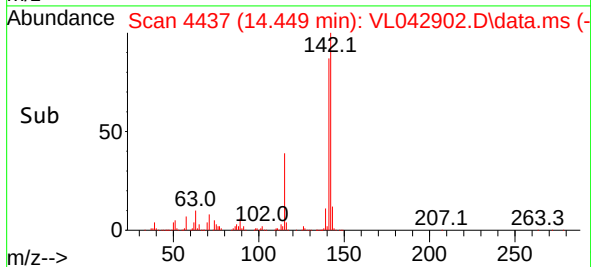
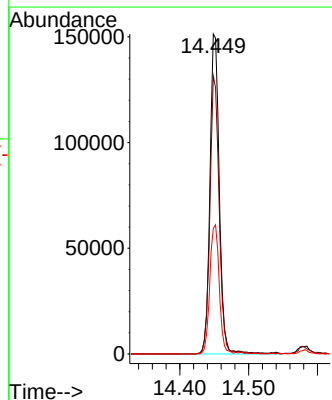
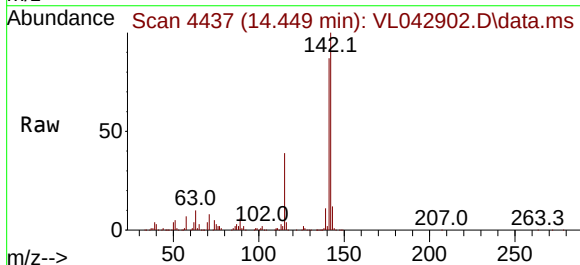
Instrument :  
MSVOA\_1  
ClientSampleId :  
VL0908ABS01

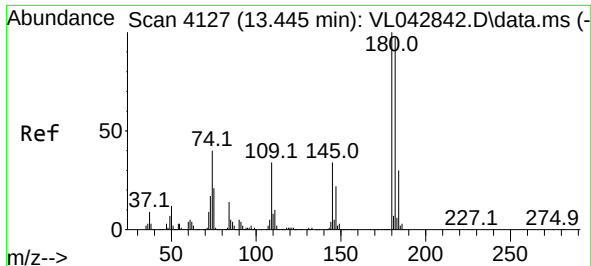
Tgt Ion:128 Resp: 477313  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.6 16.0  
129 10.6 8.9 13.3



#80  
Naphthalene,2-methyl-  
Concen: 8.713 ppbv  
RT: 14.449 min Scan# 4437  
Delta R.T. -0.000 min  
Lab File: VL042902.D  
Acq: 08 Sep 2025 13:35

Tgt Ion:142 Resp: 142381  
Ion Ratio Lower Upper  
142 100  
141 85.9 67.0 100.6  
115 41.3 30.9 46.3





#81

1,2,4-Trichlorobenzene

Concen: 10.401 ppbv

RT: 13.432 min Scan# 41

Delta R.T. -0.000 min

Lab File: VL042902.D

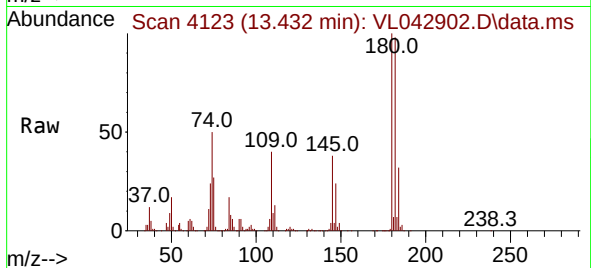
Acq: 08 Sep 2025 13:35

Instrument :

MSVOA\_L

ClientSampleId :

VL0908ABS01



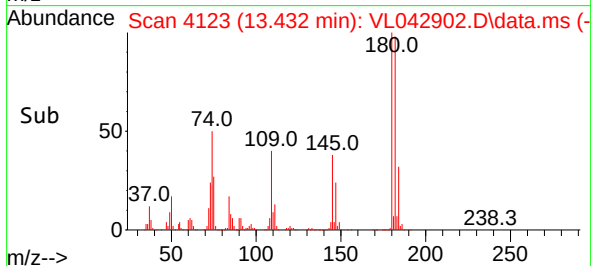
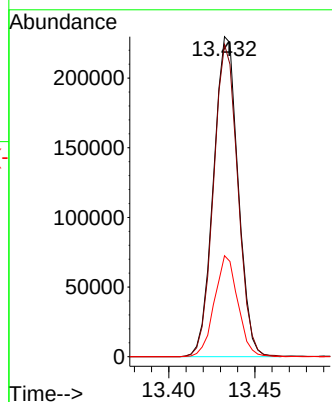
Tgt Ion:180 Resp: 228630

Ion Ratio Lower Upper

180 100

182 96.5 76.9 115.3

184 30.0 24.5 36.7





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042905.D  
 Acq On : 08 Sep 2025 15:59  
 Operator : SY/MD  
 Sample : Q3037-01DUP  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DUP

Quant Time: Sep 09 00:57:19 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 09 00:52:26 2025  
 Response via : Initial Calibration

| Compound                | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------|-------|------|----------|--------|-------|----------|
| -----                   |       |      |          |        |       |          |
| Internal Standards      |       |      |          |        |       |          |
| 1) Bromochloromethane   | 2.781 | 49   | 141221   | 10.000 | ppbv  | 0.00     |
| 33) 1,4-Difluorobenzene | 3.949 | 114  | 372044   | 10.000 | ppbv  | 0.00     |
| 55) Chlorobenzene-d5    | 8.875 | 117  | 303028   | 10.000 | ppbv  | 0.00     |

System Monitoring Compounds  
 68) 1-Bromo-4-Fluorobenzene 10.370 95 235889 10.380 ppbv 0.00  
 Spiked Amount 10.000 Range 65 - 135 Recovery = 103.800%

| Target Compounds               |        |     |         |         | Qvalue |     |
|--------------------------------|--------|-----|---------|---------|--------|-----|
| 2) Dichlorodifluoromethane     | 1.496  | 85  | 9819    | 0.474   | ppbv   | 97  |
| 3) Chlorodifluoromethane       | 1.473  | 51  | 86667   | 3.788   | ppbv # | 90  |
| 4) Chloromethane               | 1.531  | 50  | 8391    | 1.005   | ppbv   | 100 |
| 7) Chloroethane                | 1.700  | 64  | 294     | 0.092   | ppbv # | 85  |
| 9) Propene                     | 1.884  | 41  | 251325  | 25.438  | ppbv   | 92  |
| 10) Heptane                    | 4.965  | 43  | 897     | 0.034   | ppbv # | 26  |
| 11) Trichlorofluoromethane     | 1.900  | 101 | 4801    | 0.235   | ppbv   | 86  |
| 12) 1,1,2-Trichlorotri fluo... | 2.140  | 101 | 1202    | 0.074   | ppbv # | 82  |
| 13) Ethanol                    | 1.719  | 45  | 171366  | 189.695 | ppbv   | 92  |
| 15) Acetone                    | 1.832  | 43  | 2269673 | 121.496 | ppbv # | 76  |
| 16) 1,3-Butadiene              | 1.619  | 39  | 5125    | 0.605   | ppbv # | 22  |
| 17) tert-Butyl alcohol         | 2.043  | 59  | 3792    | 0.171   | ppbv # | 1   |
| 19) Isopropyl Alcohol          | 1.884  | 45  | 2182649 | 195.618 | ppbv   | 98  |
| 20) Methylene Chloride         | 2.062  | 84  | 8047    | 1.028   | ppbv # | 74  |
| 21) Allyl Chloride             | 1.958  | 41  | 7443    | 0.564   | ppbv # | 23  |
| 23) Vinyl Acetate              | 2.450  | 43  | 21178   | 0.825   | ppbv # | 86  |
| 24) 1,1-Dichloroethane         | 2.777  | 63  | 551     | 0.033   | ppbv # | 88  |
| 25) Ethyl Acetate              | 2.832  | 43  | 150520  | 3.329   | ppbv # | 95  |
| 26) Hexane                     | 2.819  | 57  | 19030   | 0.912   | ppbv # | 1   |
| 27) Carbon Disulfide           | 2.146  | 76  | 1070    | 0.053   | ppbv # | 43  |
| 29) Chloroform                 | 2.845  | 83  | 8213    | 0.276   | ppbv   | 93  |
| 31) cis-1,2-Dichloroethene     | 2.832  | 61  | 17577   | 0.843   | ppbv # | 23  |
| 34) 2-Butanone                 | 2.554  | 43  | 27696   | 1.102   | ppbv   | 97  |
| 35) Carbon Tetrachloride       | 3.755  | 117 | 4459    | 0.174   | ppbv # | 97  |
| 36) Benzene                    | 3.648  | 78  | 2959    | 0.083   | ppbv # | 81  |
| 37) 1,2-Dichloroethane         | 3.211  | 62  | 750     | 0.040   | ppbv # | 79  |
| 39) 1,2-Dichloropropane        | 3.949  | 63  | 97144   | 7.466   | ppbv # | 27  |
| 40) 1,4-Dioxane                | 4.590  | 88  | 1112    | 0.180   | ppbv # | 22  |
| 41) Tetrahydrofuran            | 3.052  | 42  | 1132    | 0.081   | ppbv # | 66  |
| 43) Methyl Methacrylate        | 4.868  | 69  | 1057    | 0.072   | ppbv # | 1   |
| 50) 4-Methyl-2-Pentanone       | 5.745  | 43  | 68077   | 2.005   | ppbv   | 99  |
| 51) 2-Hexanone                 | 7.438  | 43  | 4166    | 0.156   | ppbv # | 97  |
| 53) Toluene                    | 6.927  | 91  | 6220    | 0.147   | ppbv # | 1   |
| 58) Ethyl Benzene              | 9.348  | 91  | 2812    | 0.053   | ppbv # | 85  |
| 59) m/p-Xylene                 | 9.545  | 91  | 1627    | 0.039   | ppbv # | 100 |
| 60) o-Xylene                   | 9.959  | 91  | 4723    | 0.112   | ppbv   | 87  |
| 61) Styrene                    | 9.866  | 104 | 1409    | 0.071   | ppbv # | 60  |
| 62) Isopropylbenzene           | 10.529 | 105 | 1966    | 0.032   | ppbv   | 98  |
| 64) n-propylbenzene            | 10.989 | 120 | 589     | 0.037   | ppbv # | 1   |
| 65) tert-Butylbenzene          | 11.532 | 119 | 5846    | 0.108   | ppbv # | 47  |
| 67) sec-Butylbenzene           | 11.759 | 105 | 2374    | 0.031   | ppbv # | 48  |
| 69) p-Isopropyltoluene         | 11.921 | 119 | 4177    | 0.064   | ppbv # | 81  |
| 72) 4-Ethyltoluene             | 11.121 | 105 | 12693   | 0.248   | ppbv # | 56  |

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Data File : VL042905.D  
Acq On : 08 Sep 2025 15:59  
Operator : SY/MD  
Sample : Q3037-01DUP  
Misc : 400mL/MSVOA\_L  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

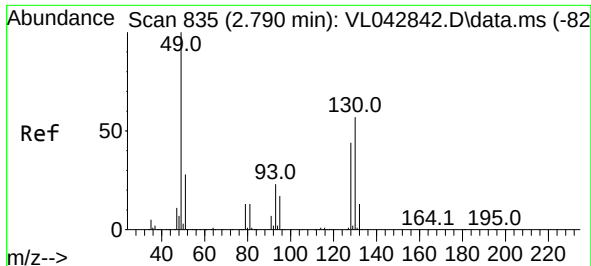
Quant Time: Sep 09 00:57:19 2025  
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
QLast Update : Tue Sep 09 00:52:26 2025  
Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|----------------------------|--------|------|----------|-------|--------|----------|
| 73) 1,3,5-Trimethylbenzene | 11.196 | 105  | 14080    | 0.324 | ppbv # | 84       |
| 74) 1,2,4-Trimethylbenzene | 11.532 | 105  | 53636    | 1.124 | ppbv # | 59       |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

- 1
- 2
- 3
- 4
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- 11
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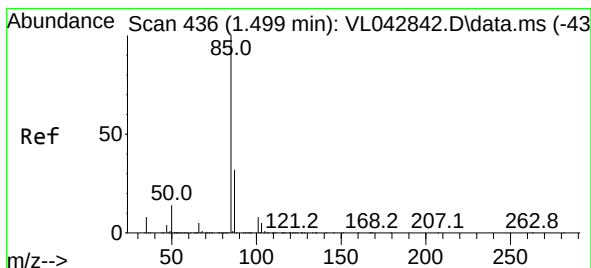
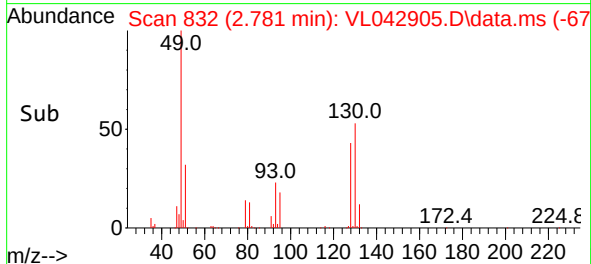
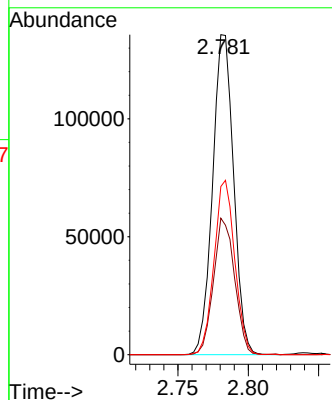
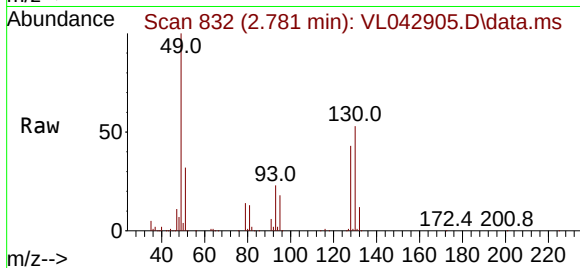
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#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.781 min Scan# 81  
 Delta R.T. 0.004 min  
 Lab File: VL042905.D  
 Acq: 08 Sep 2025 15:59

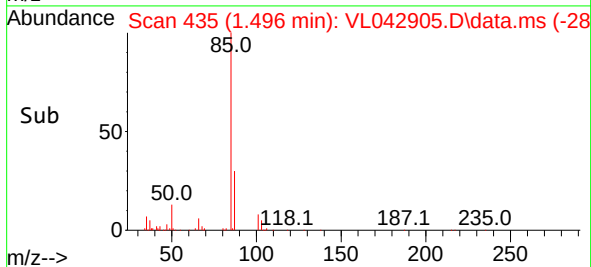
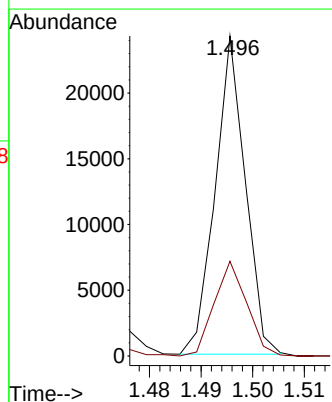
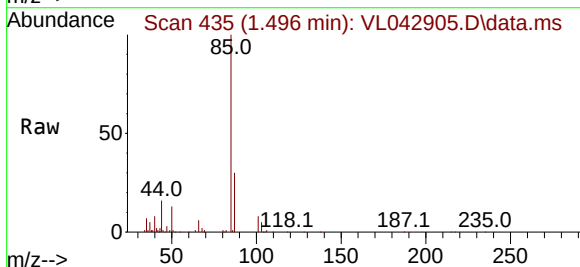
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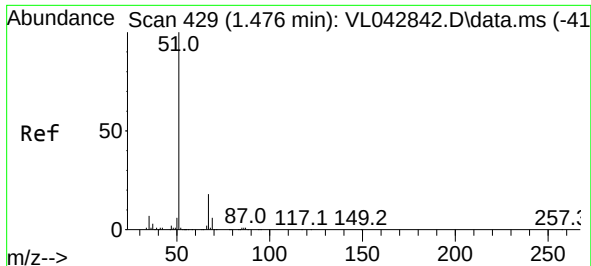
Tgt Ion: 49 Resp: 141221  
 Ion Ratio Lower Upper  
 49 100  
 128 42.8 23.7 71.1  
 130 53.7 30.6 91.6



#2  
 Dichlorodifluoromethane  
 Concen: 0.474 ppbv  
 RT: 1.496 min Scan# 435  
 Delta R.T. 0.003 min  
 Lab File: VL042905.D  
 Acq: 08 Sep 2025 15:59

Tgt Ion: 85 Resp: 9819  
 Ion Ratio Lower Upper  
 85 100  
 87 29.8 25.3 37.9

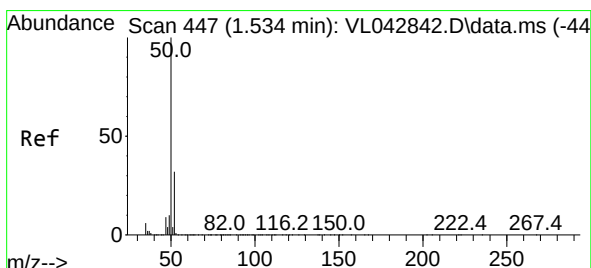
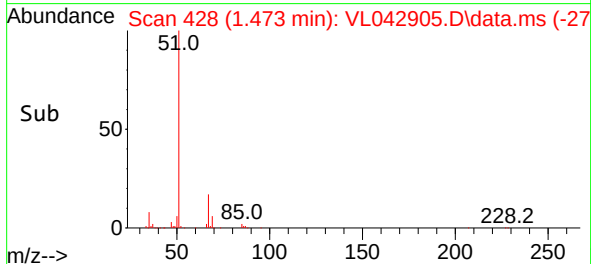
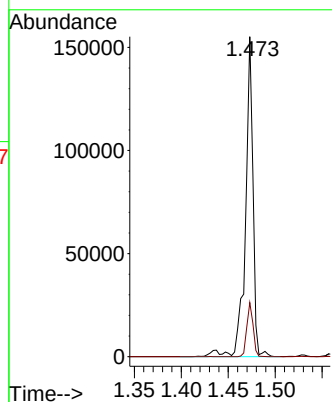
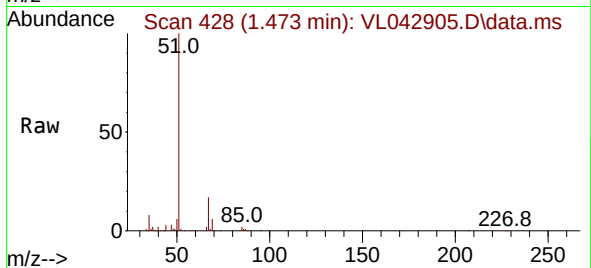




#3  
Chlorodifluoromethane  
Concen: 3.788 ppbv  
RT: 1.473 min Scan# 41  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

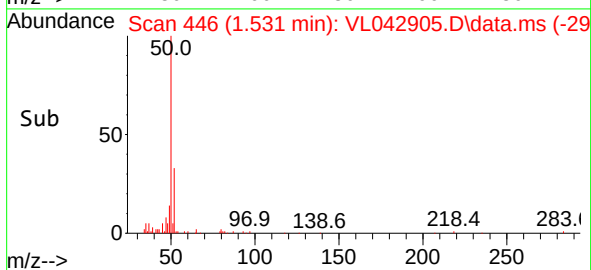
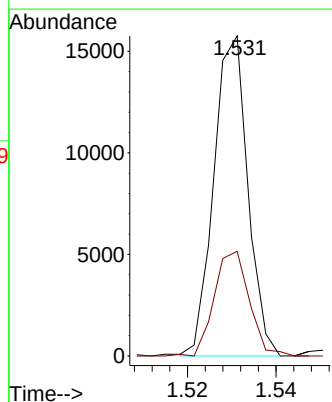
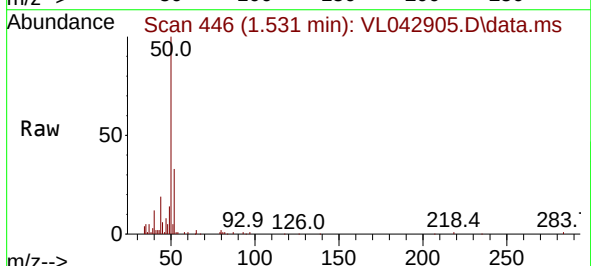
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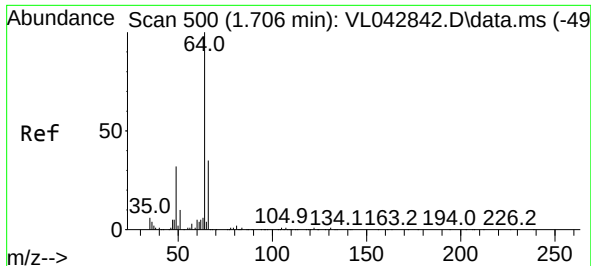
Tgt Ion: 51 Resp: 86667  
Ion Ratio Lower Upper  
51 100  
67 14.0 14.9 22.3#



#4  
Chloromethane  
Concen: 1.005 ppbv  
RT: 1.531 min Scan# 446  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 50 Resp: 8391  
Ion Ratio Lower Upper  
50 100  
52 32.2 25.9 38.9

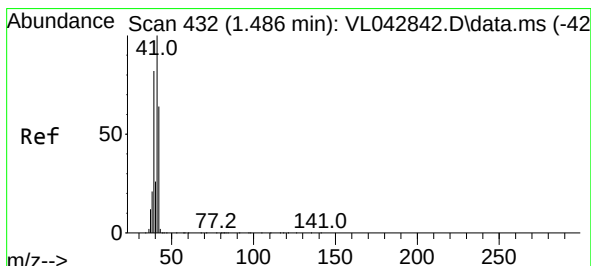
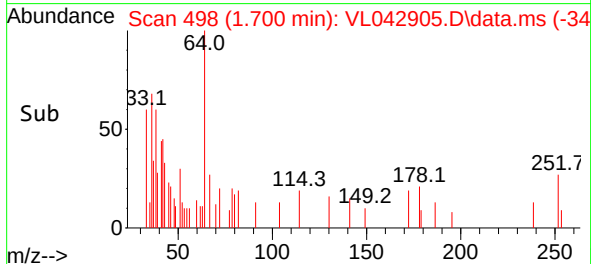
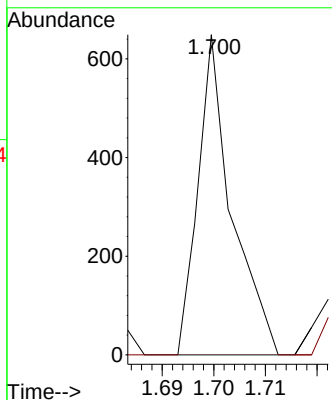
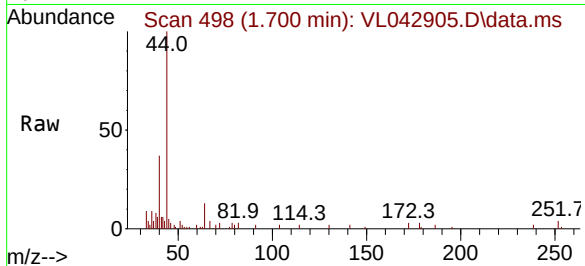




#7  
Chloroethane  
Concen: 0.092 ppbv  
RT: 1.700 min Scan# 498  
Delta R.T. -0.000 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

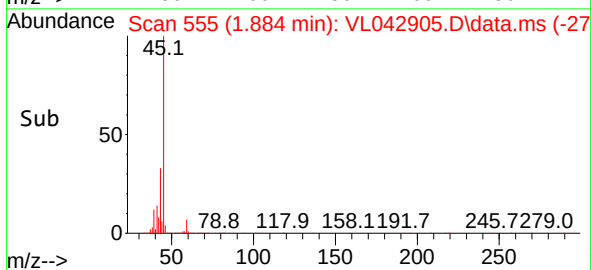
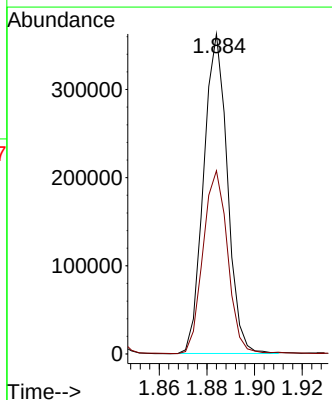
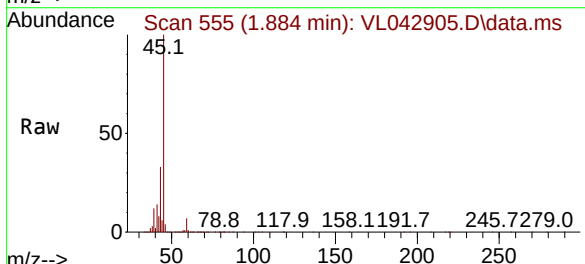
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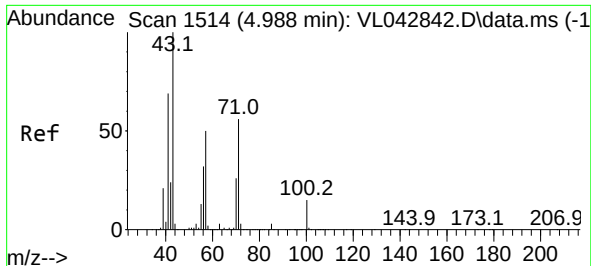
Tgt Ion: 64 Resp: 294  
Ion Ratio Lower Upper  
64 100  
66 27.1 28.6 42.8#



#9  
Propene  
Concen: 25.438 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. 0.408 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 41 Resp: 251325  
Ion Ratio Lower Upper  
41 100  
42 59.5 53.0 79.4

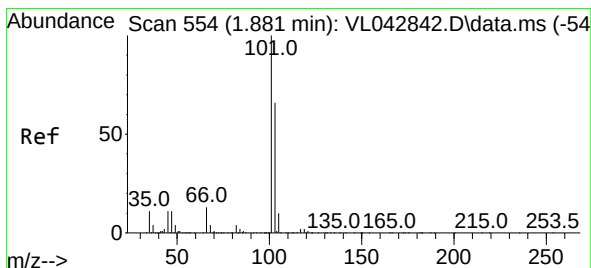
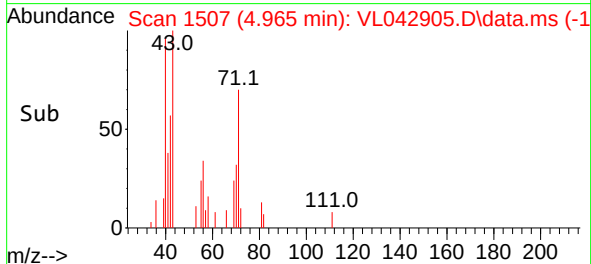
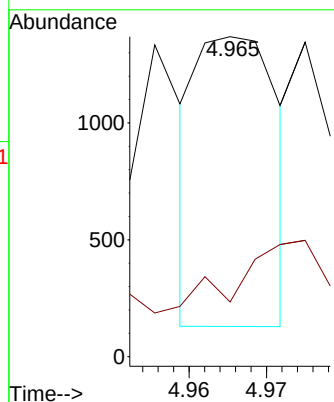
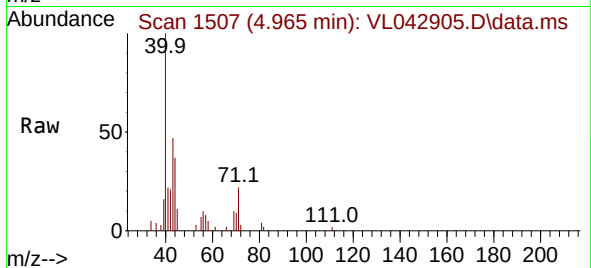




#10  
Heptane  
Concen: 0.034 ppbv  
RT: 4.965 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

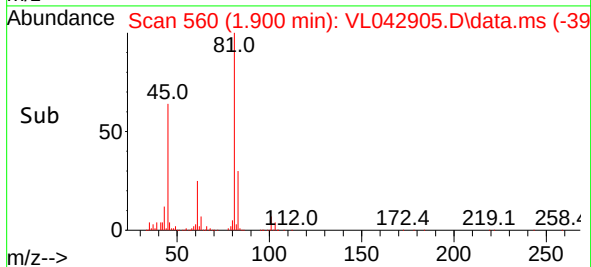
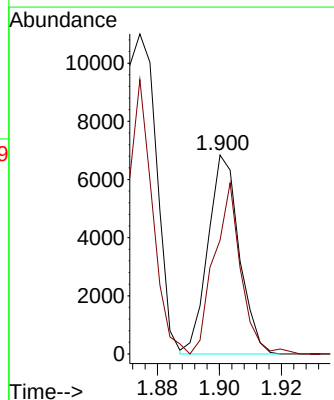
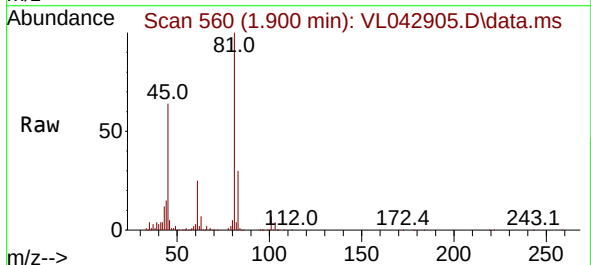
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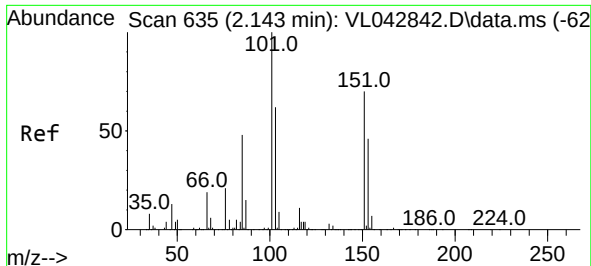
Tgt Ion: 43 Resp: 897  
Ion Ratio Lower Upper  
43 100  
57 0.0 41.4 62.0#



#11  
Trichlorofluoromethane  
Concen: 0.235 ppbv  
RT: 1.900 min Scan# 560  
Delta R.T. 0.029 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 101 Resp: 4801  
Ion Ratio Lower Upper  
101 100  
103 54.7 52.5 78.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.074 ppbv

RT: 2.140 min Scan# 61

Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA\_L

ClientSampleId :

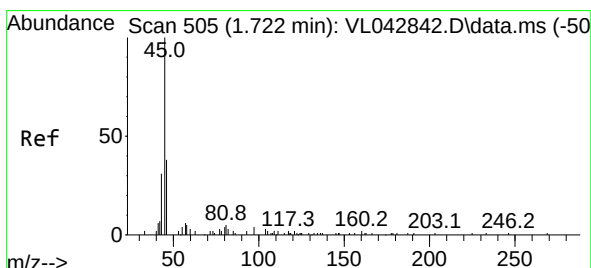
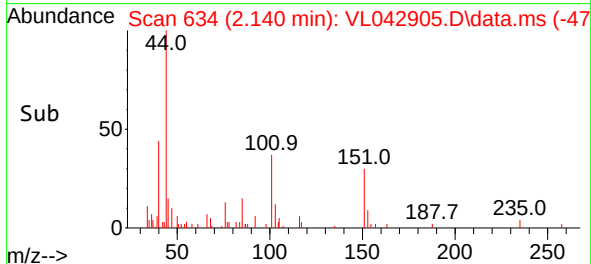
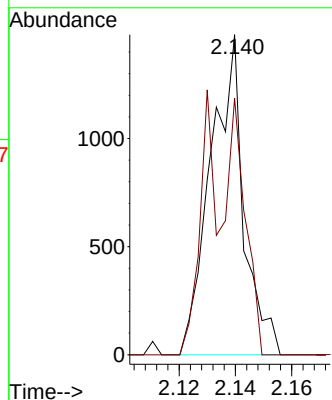
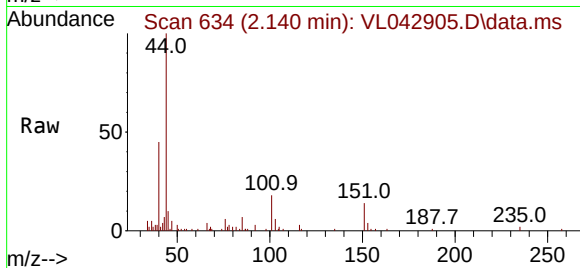
IA-2DUP

Tgt Ion:101 Resp: 1202

Ion Ratio Lower Upper

101 100

151 85.3 56.4 84.6#



#13

Ethanol

Concen: 189.695 ppbv

RT: 1.719 min Scan# 504

Delta R.T. 0.003 min

Lab File: VL042905.D

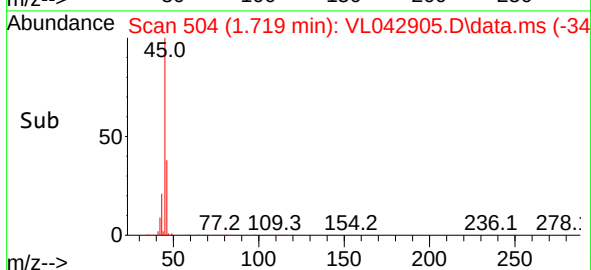
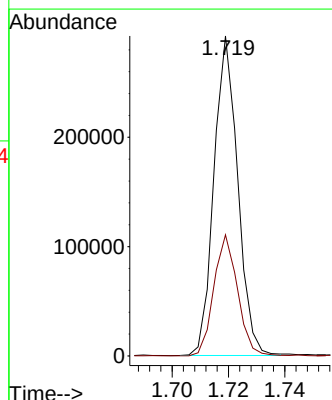
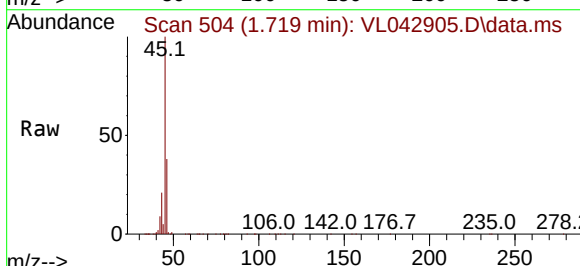
Acq: 08 Sep 2025 15:59

Tgt Ion: 45 Resp: 171366

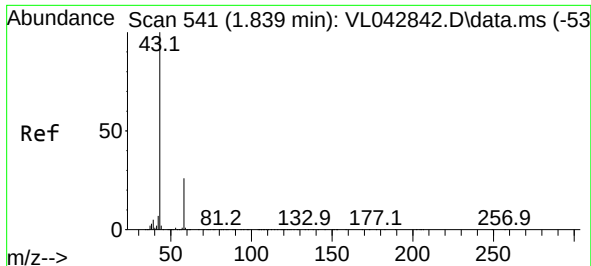
Ion Ratio Lower Upper

45 100

46 38.4 17.5 69.9



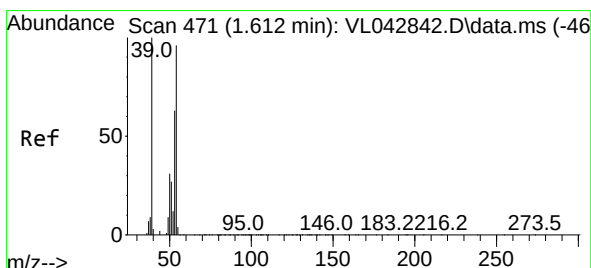
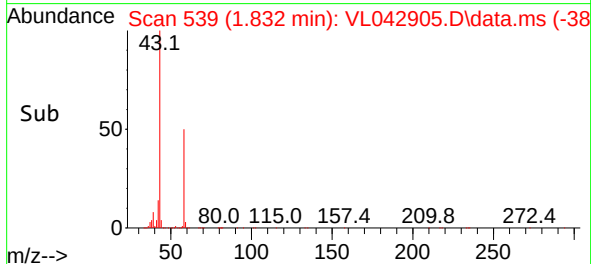
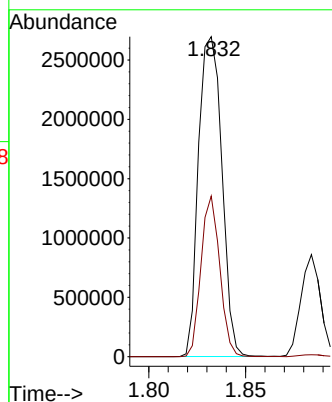
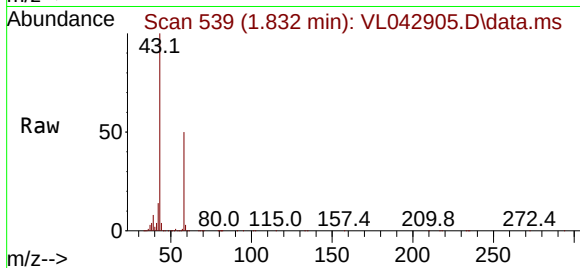




#15  
Acetone  
Concen: 121.496 ppbv  
RT: 1.832 min Scan# 51  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

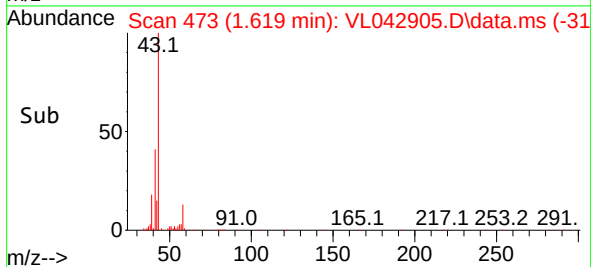
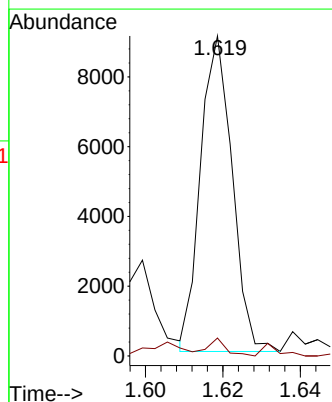
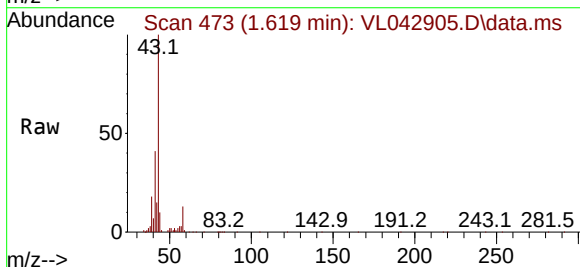
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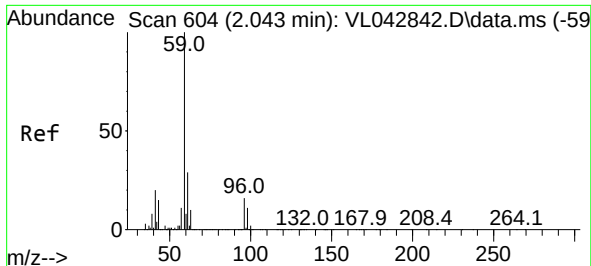
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Ion Ratio Lower Upper  
43 100  
58 40.4 22.4 33.6#



#16  
1,3-Butadiene  
Concen: 0.605 ppbv  
RT: 1.619 min Scan# 473  
Delta R.T. 0.016 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 39 Resp: 5125  
Ion Ratio Lower Upper  
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54 10.8 63.6 95.4#

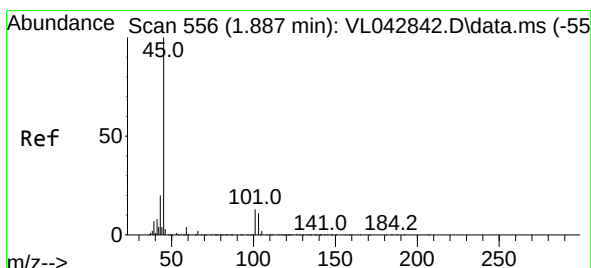
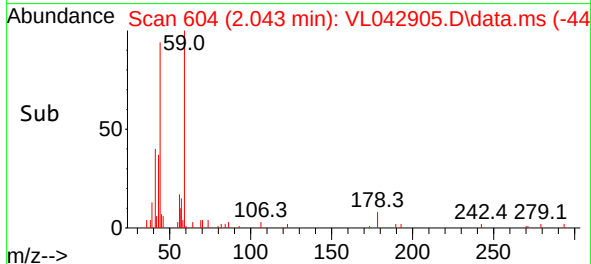
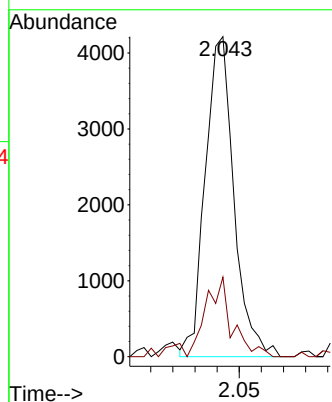
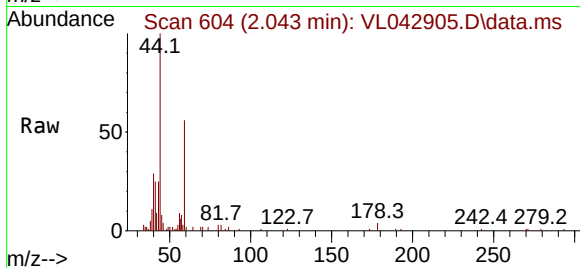




#17  
tert-Butyl alcohol  
Concen: 0.171 ppbv  
RT: 2.043 min Scan# 604  
Delta R.T. 0.010 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

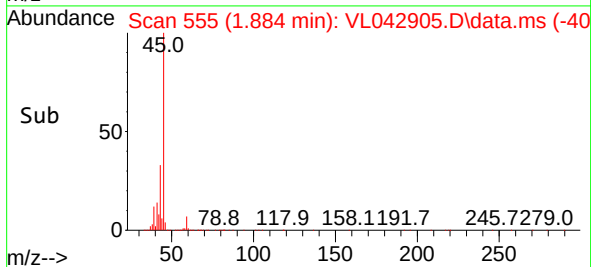
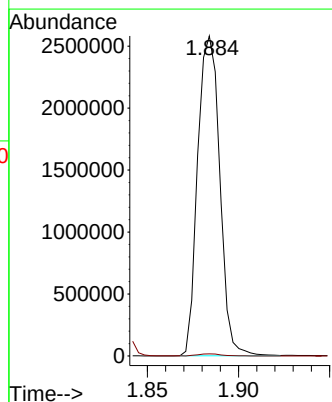
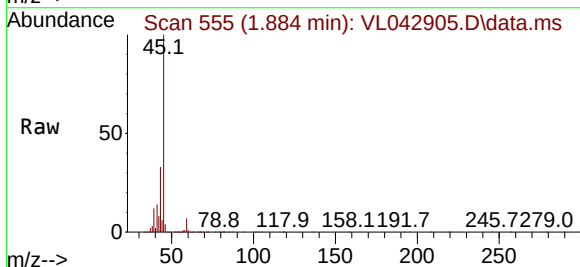
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ClientSampleId :  
IA-2DUP

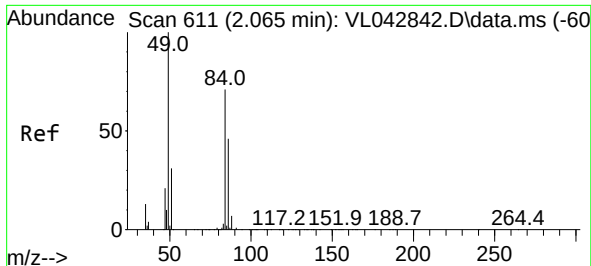
Tgt Ion: 59 Resp: 3792  
Ion Ratio Lower Upper  
59 100  
57 52.6 9.0 13.4#



#19  
Isopropyl Alcohol  
Concen: 195.618 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 45 Resp: 2182649  
Ion Ratio Lower Upper  
45 100  
58 42.0 32.7 49.1

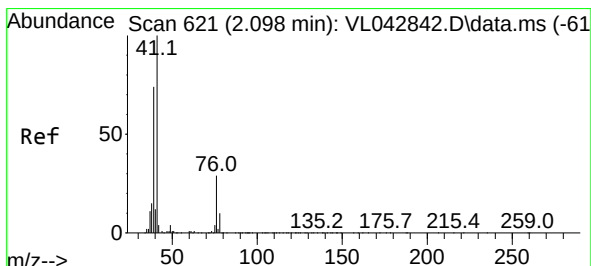
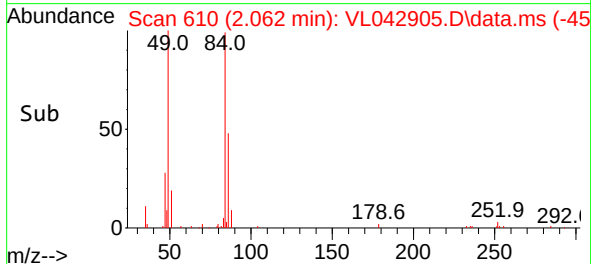
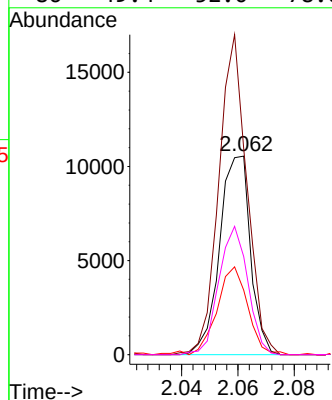
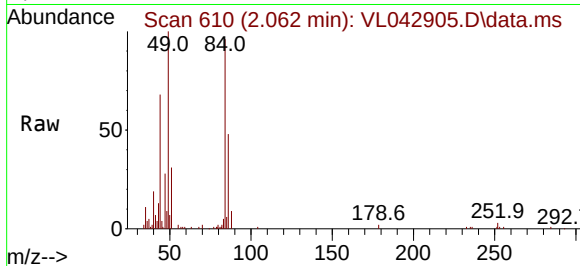




#20  
Methylene Chloride  
Concen: 1.028 ppbv  
RT: 2.062 min Scan# 611  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

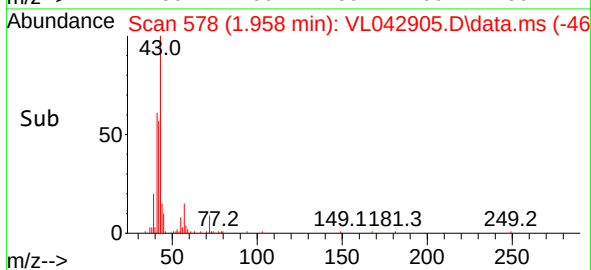
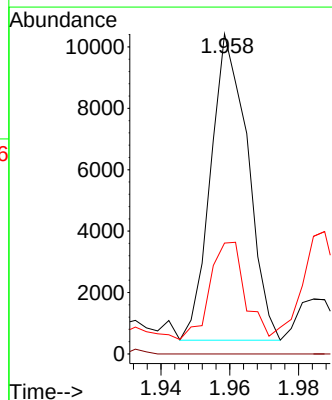
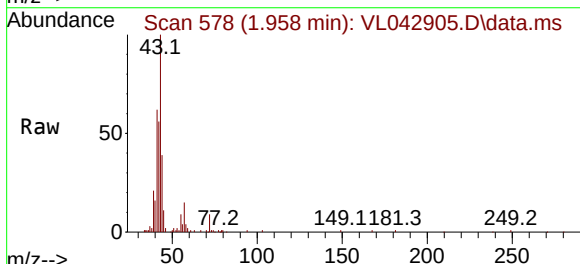
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

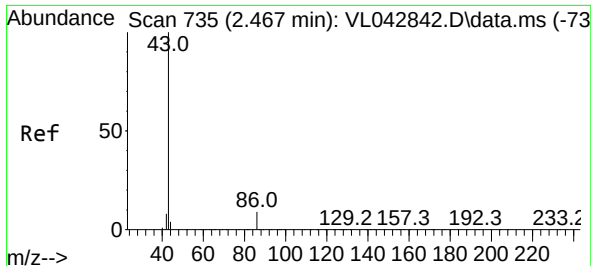
|             |              |
|-------------|--------------|
| Tgt Ion: 84 | Resp: 8047   |
| Ion Ratio   | Lower Upper  |
| 84 100      |              |
| 49 102.7    | 112.3 168.5# |
| 51 30.7     | 36.0 54.0#   |
| 86 49.4     | 52.0 78.0#   |



#21  
Allyl Chloride  
Concen: 0.564 ppbv  
RT: 1.958 min Scan# 578  
Delta R.T. -0.130 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 7443  |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 76 1.3      | 23.9 35.9#  |
| 39 0.0      | 57.8 86.6#  |

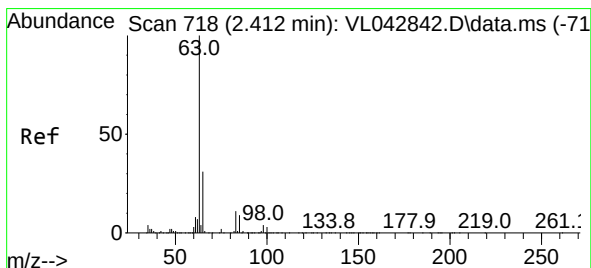
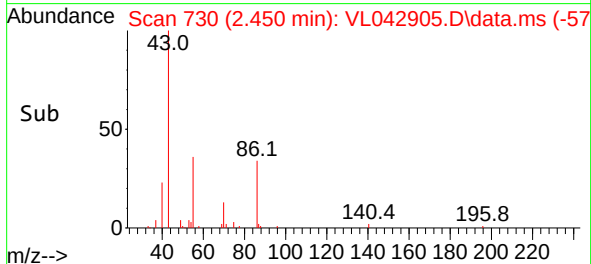
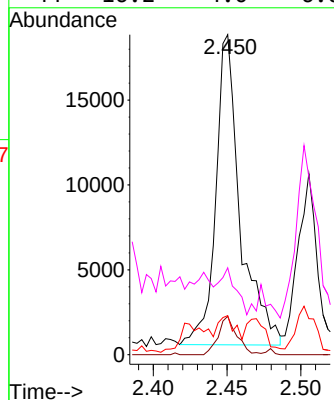
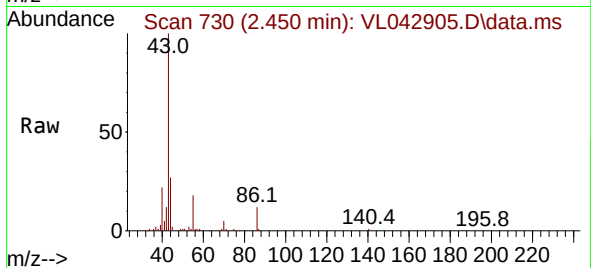




#23  
 Vinyl Acetate  
 Concen: 0.825 ppbv  
 RT: 2.450 min Scan# 71  
 Delta R.T. -0.003 min  
 Lab File: VL042905.D  
 Acq: 08 Sep 2025 15:59

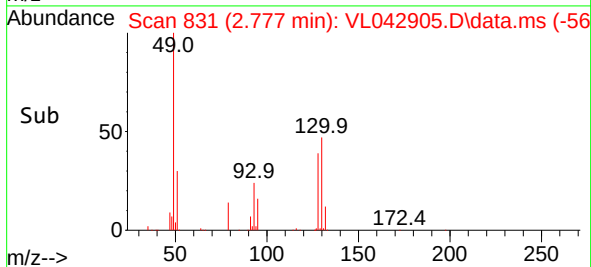
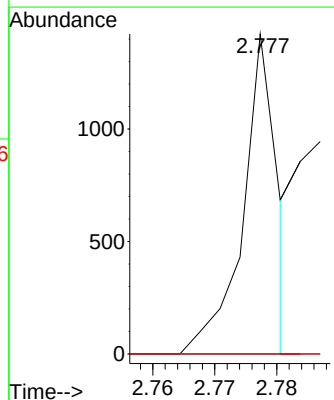
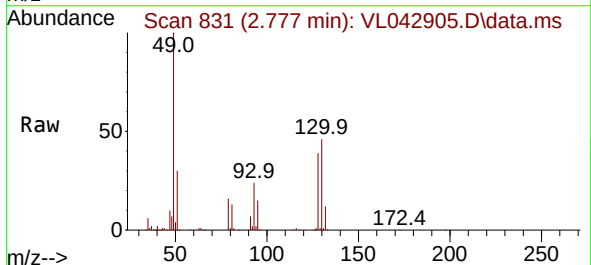
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-2DUP

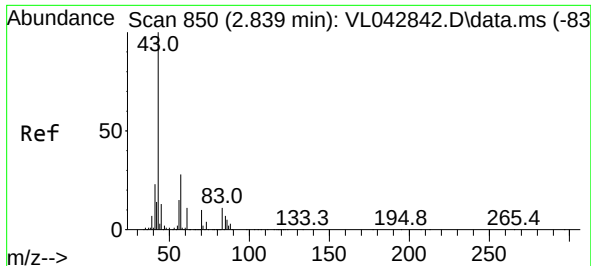
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 21178 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 12.4  | 6.6   | 9.8#  |
| 42       | 10.6  | 7.0   | 10.6# |
| 44       | 16.2  | 4.0   | 6.0#  |



#24  
 1,1-Dichloroethane  
 Concen: 0.033 ppbv  
 RT: 2.777 min Scan# 831  
 Delta R.T. 0.375 min  
 Lab File: VL042905.D  
 Acq: 08 Sep 2025 15:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 63    | Resp: | 551   |
| Ion      | Ratio | Lower | Upper |
| 63       | 100   |       |       |
| 98       | 0.0   | 2.1   | 6.5#  |
| 100      | 0.0   | 1.7   | 5.1#  |

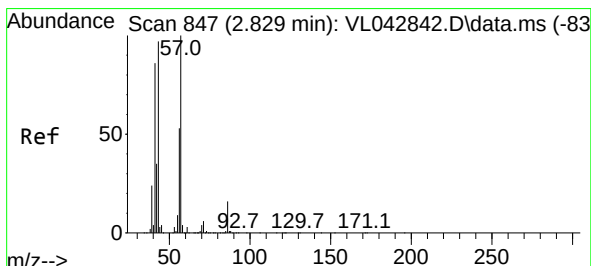
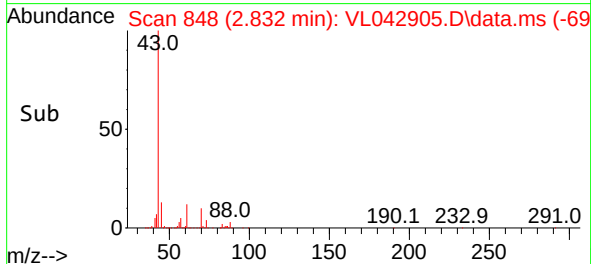
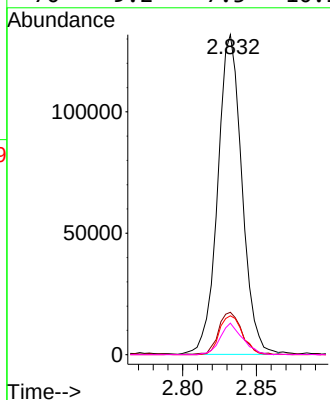
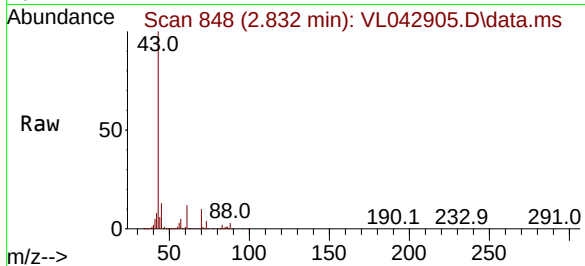




#25  
Ethyl Acetate  
Concen: 3.329 ppbv  
RT: 2.832 min Scan# 844  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

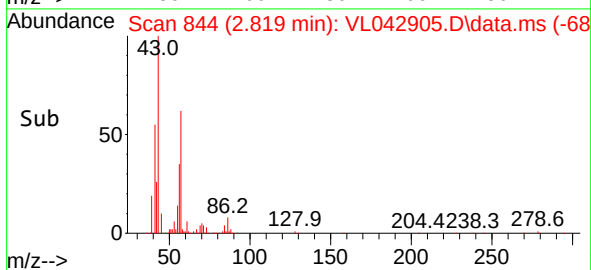
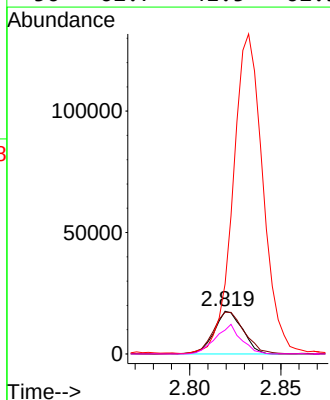
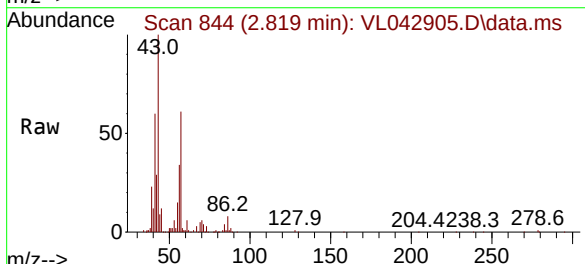
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

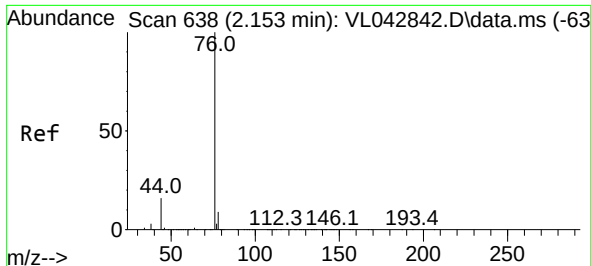
|             |              |
|-------------|--------------|
| Tgt Ion: 43 | Resp: 150520 |
| Ion Ratio   | Lower Upper  |
| 43 100      |              |
| 45 12.7     | 8.1 12.1#    |
| 61 11.7     | 7.4 11.2#    |
| 70 9.2      | 7.3 10.9     |



#26  
Hexane  
Concen: 0.912 ppbv  
RT: 2.819 min Scan# 844  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 19030  |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 110.0    | 68.6 103.0#  |
| 43 793.6    | 168.5 252.7# |
| 56 62.7     | 41.5 62.3#   |

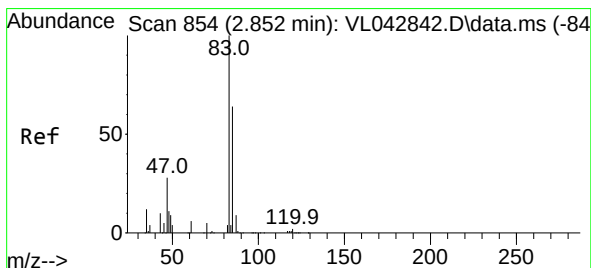
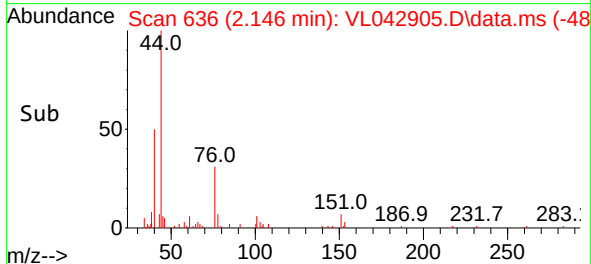
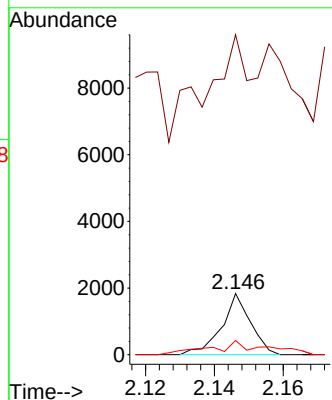
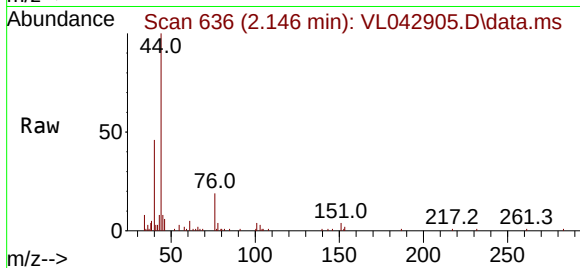




#27  
Carbon Disulfide  
Concen: 0.053 ppbv  
RT: 2.146 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

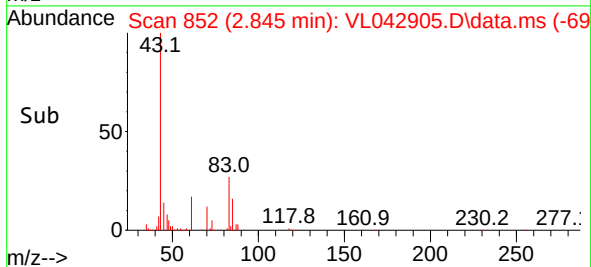
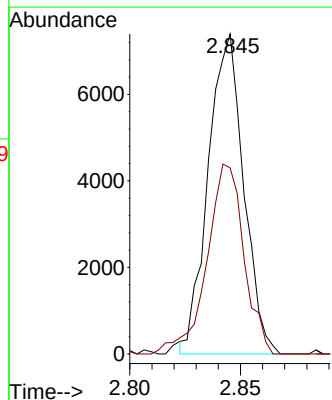
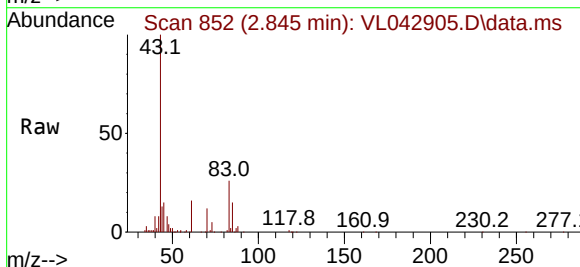
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

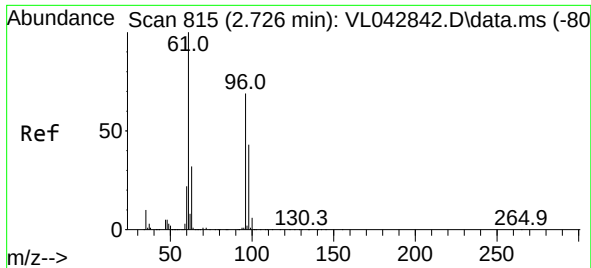
Tgt Ion: 76 Resp: 1070  
Ion Ratio Lower Upper  
76 100  
44 0.0 15.9 23.9#  
78 42.5 9.5 14.3#



#29  
Chloroform  
Concen: 0.276 ppbv  
RT: 2.845 min Scan# 852  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 83 Resp: 8213  
Ion Ratio Lower Upper  
83 100  
85 58.1 51.1 76.7

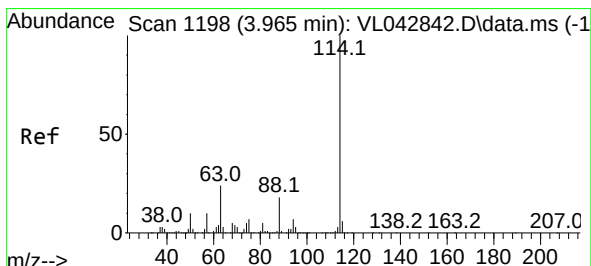
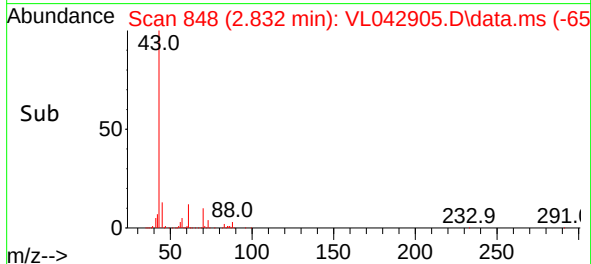
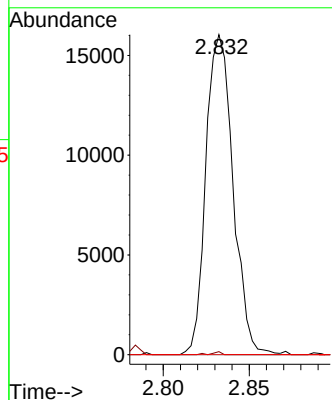
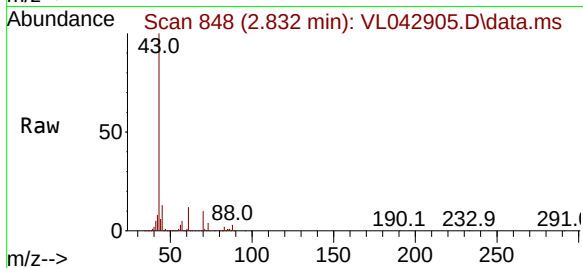




#31  
 cis-1,2-Dichloroethene  
 Concen: 0.843 ppbv  
 RT: 2.832 min Scan# 84  
 Delta R.T. 0.120 min  
 Lab File: VL042905.D  
 Acq: 08 Sep 2025 15:59

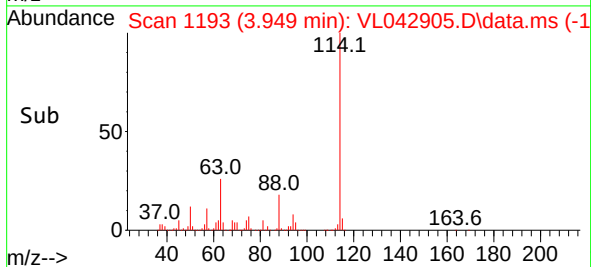
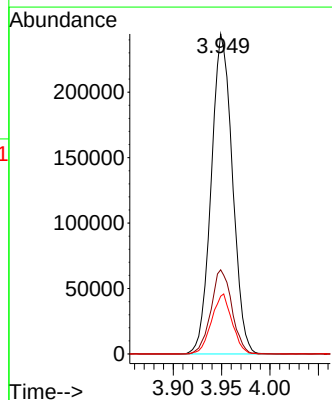
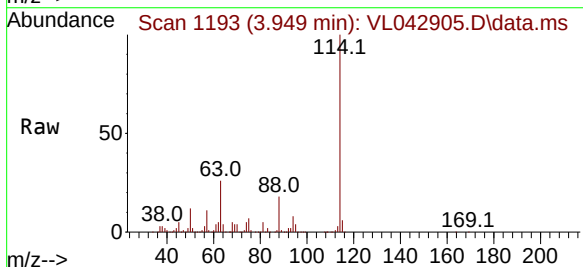
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 MSVOA\_L  
 ClientSampleId :  
 IA-2DUP

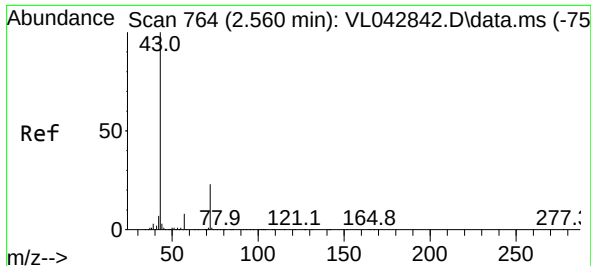
Tgt Ion: 61 Resp: 17577  
 Ion Ratio Lower Upper  
 61 100  
 96 1.0 55.0 82.6#  
 98 0.0 34.3 51.5#



#33  
 1,4-Difluorobenzene  
 Concen: 10.000 ppbv  
 RT: 3.949 min Scan# 1193  
 Delta R.T. 0.006 min  
 Lab File: VL042905.D  
 Acq: 08 Sep 2025 15:59

Tgt Ion: 114 Resp: 372044  
 Ion Ratio Lower Upper  
 114 100  
 63 26.1 19.7 29.5  
 88 18.1 14.4 21.6

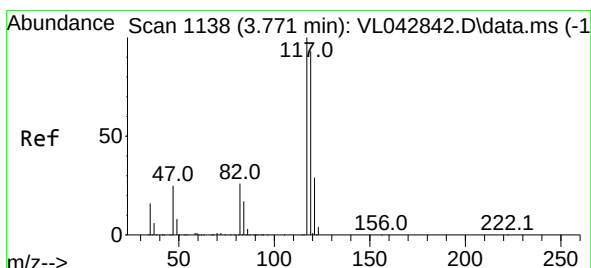
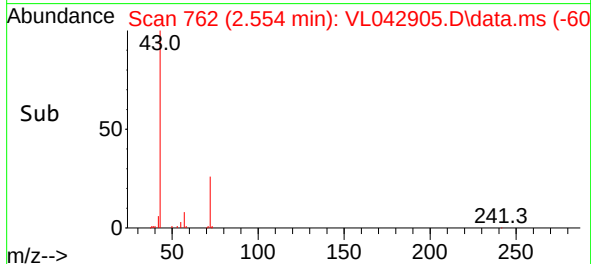
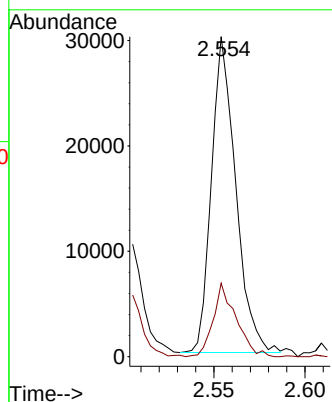
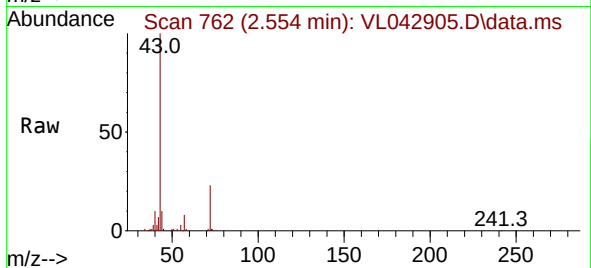




#34  
2-Butanone  
Concen: 1.102 ppbv  
RT: 2.554 min Scan# 762  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

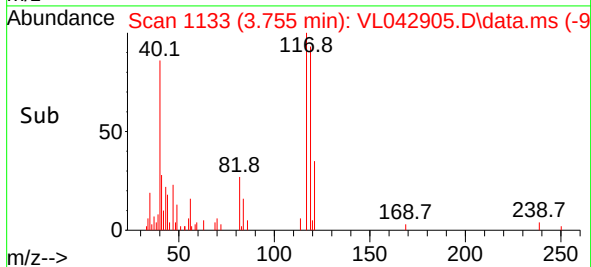
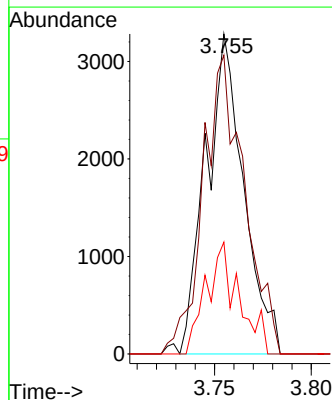
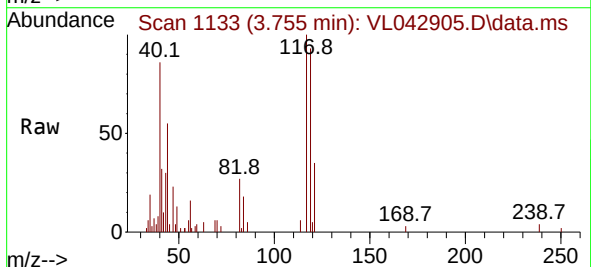
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

Tgt Ion: 43 Resp: 27696  
Ion Ratio Lower Upper  
43 100  
72 21.9 18.6 28.0

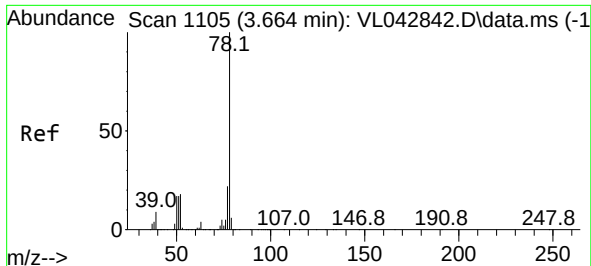


#35  
Carbon Tetrachloride  
Concen: 0.174 ppbv  
RT: 3.755 min Scan# 1133  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 117 Resp: 4459  
Ion Ratio Lower Upper  
117 100  
119 93.4 74.7 112.1  
121 34.9 23.2 34.8#



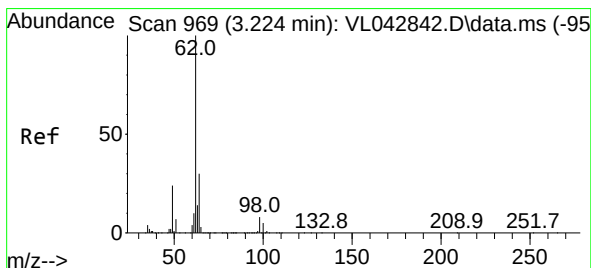
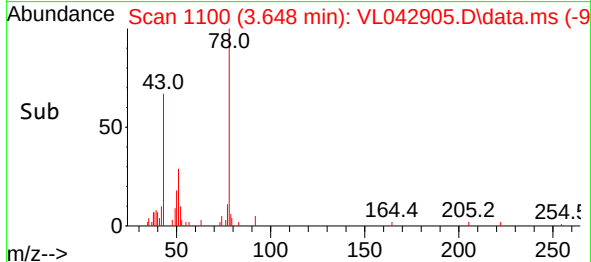
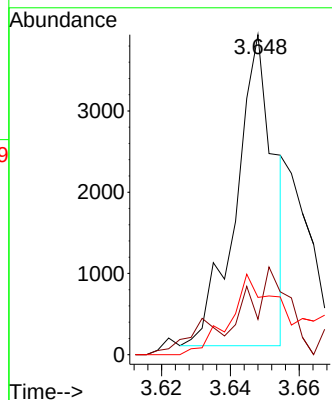
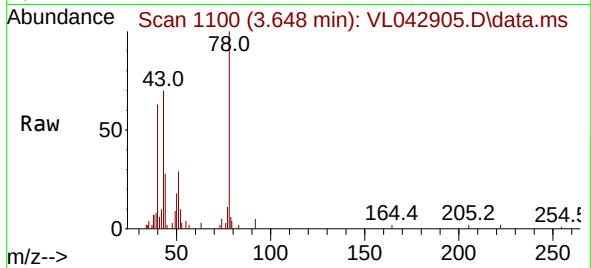




#36  
Benzene  
Concen: 0.083 ppbv  
RT: 3.648 min Scan# 1100  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

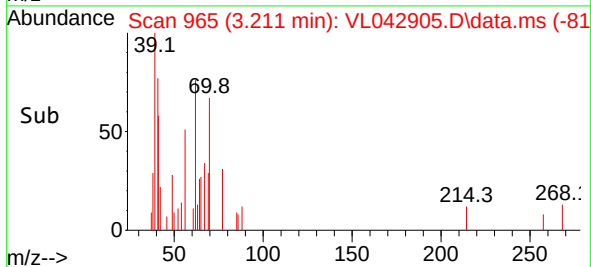
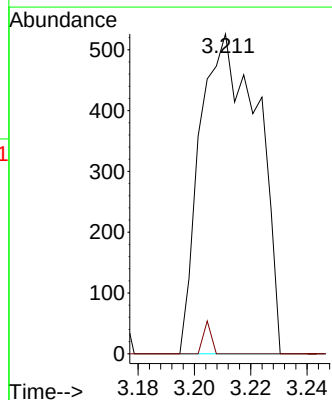
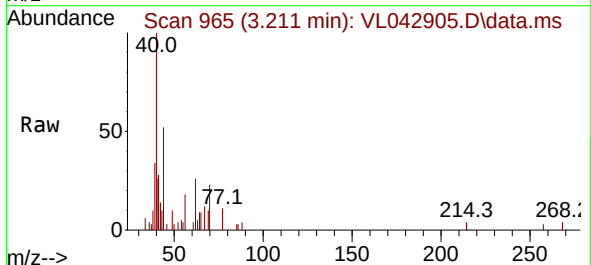
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

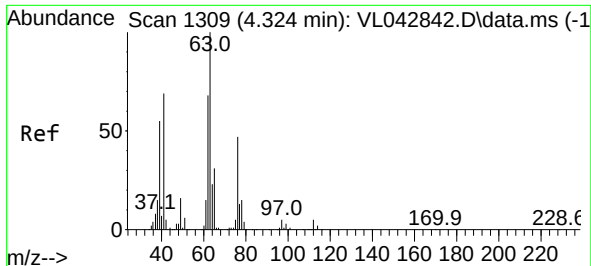
Tgt Ion: 78 Resp: 2959  
Ion Ratio Lower Upper  
78 100  
77 6.1 17.7 26.5#  
50 17.3 13.9 20.9



#37  
1,2-Dichloroethane  
Concen: 0.040 ppbv  
RT: 3.211 min Scan# 965  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 62 Resp: 750  
Ion Ratio Lower Upper  
62 100  
98 0.0 5.9 8.9#





#39

1,2-Dichloropropane

Concen: 7.466 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.350 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA\_L

ClientSampleId :

IA-2DUP

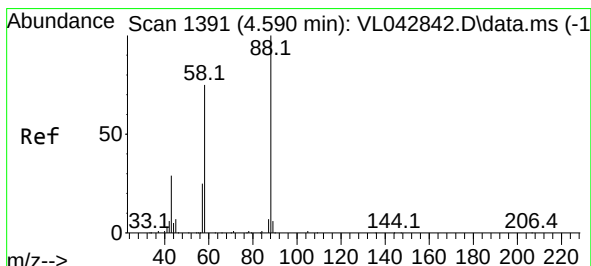
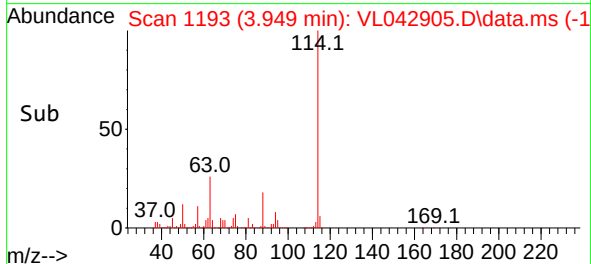
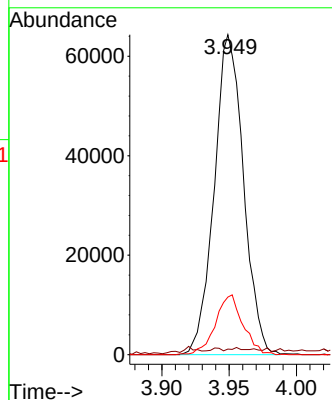
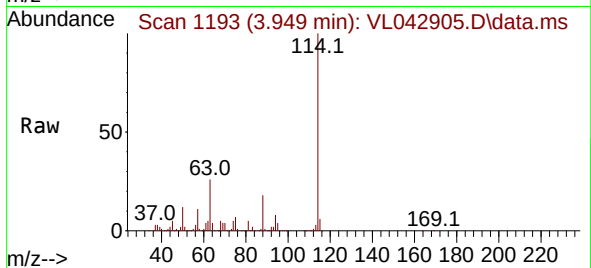
Tgt Ion: 63 Resp: 97144

Ion Ratio Lower Upper

63 100

41 1.0 55.0 82.4#

62 17.9 54.4 81.6#



#40

1,4-Dioxane

Concen: 0.180 ppbv

RT: 4.590 min Scan# 1391

Delta R.T. 0.029 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Tgt Ion: 88 Resp: 1112

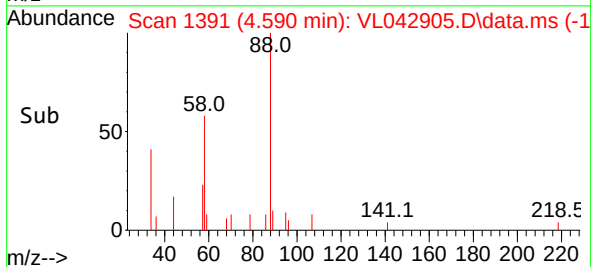
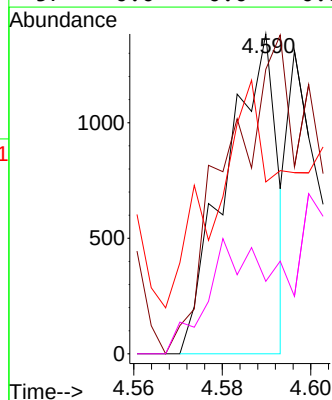
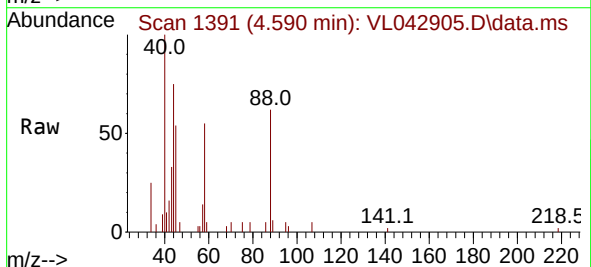
Ion Ratio Lower Upper

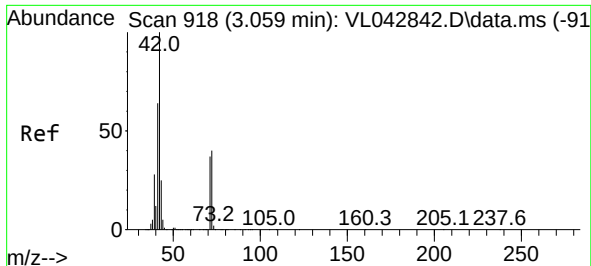
88 100

58 0.0 53.8 80.6#

43 63.5 22.8 34.2#

57 0.0 0.0 0.0

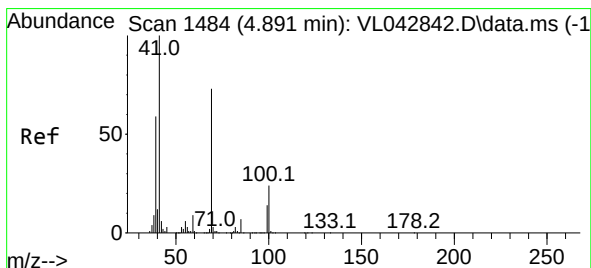
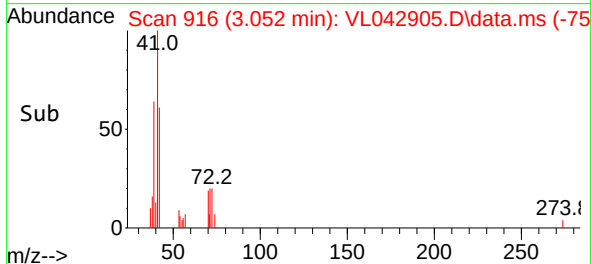
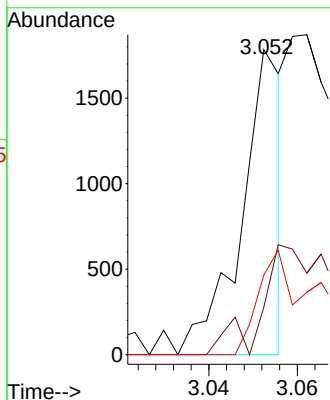
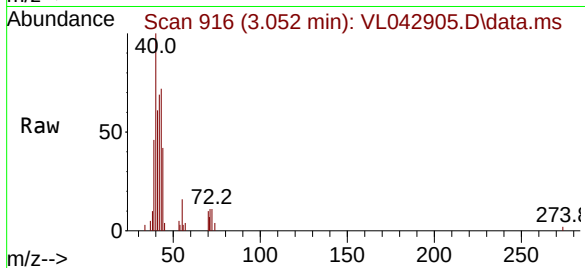




#41  
Tetrahydrofuran  
Concen: 0.081 ppbv  
RT: 3.052 min Scan# 918  
Delta R.T. 0.010 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

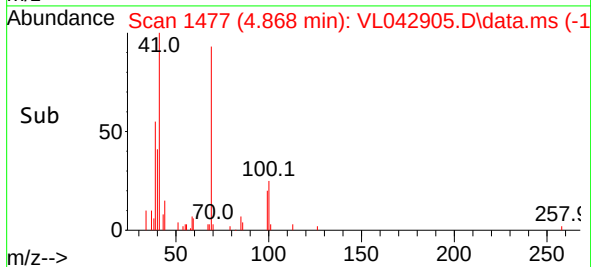
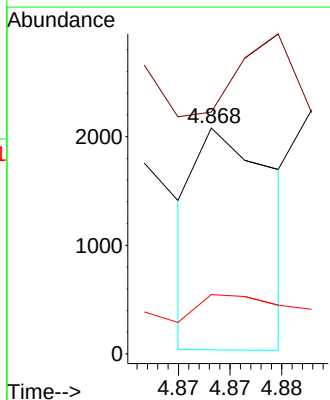
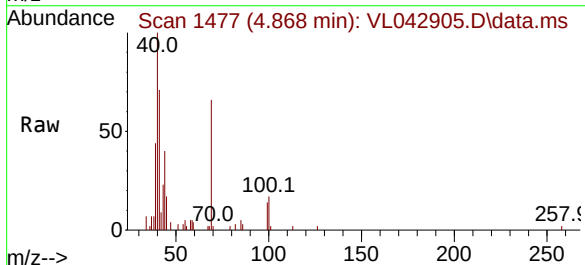
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

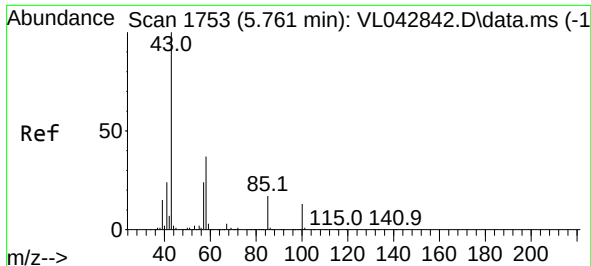
Tgt Ion: 42 Resp: 1132  
Ion Ratio Lower Upper  
42 100  
72 68.4 32.6 48.8#  
71 51.5 30.0 45.0#



#43  
Methyl Methacrylate  
Concen: 0.072 ppbv  
RT: 4.868 min Scan# 1477  
Delta R.T. 0.010 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 69 Resp: 1057  
Ion Ratio Lower Upper  
69 100  
41 0.0 114.6 172.0#  
100 118.4 30.2 45.4#





#50

4-Methyl-2-Pentanone

Concen: 2.005 ppbv

RT: 5.745 min Scan# 1748

Delta R.T. 0.016 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA\_L

ClientSampleId :

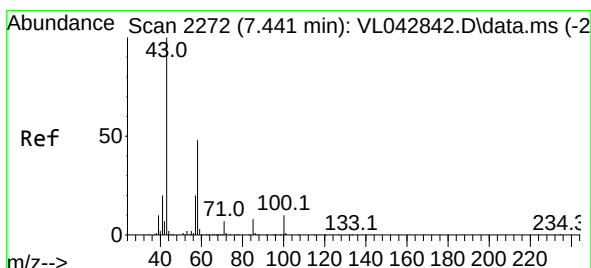
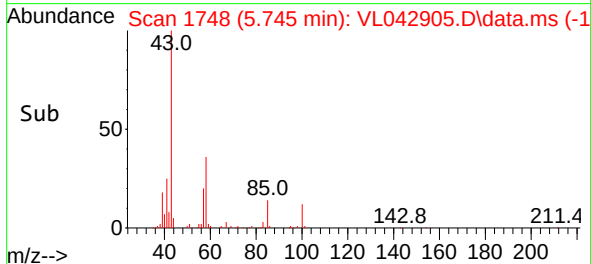
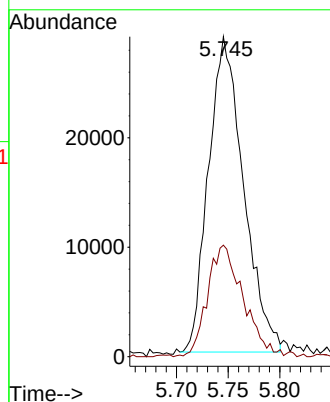
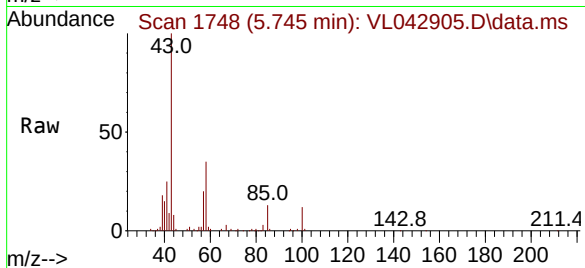
IA-2DUP

Tgt Ion: 43 Resp: 68077

Ion Ratio Lower Upper

43 100

58 36.5 29.8 44.8



#51

2-Hexanone

Concen: 0.156 ppbv

RT: 7.438 min Scan# 2271

Delta R.T. 0.019 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

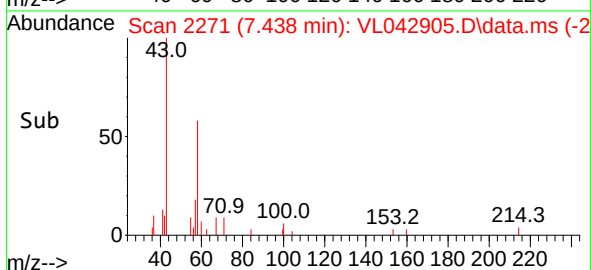
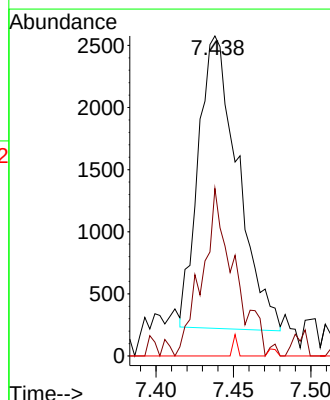
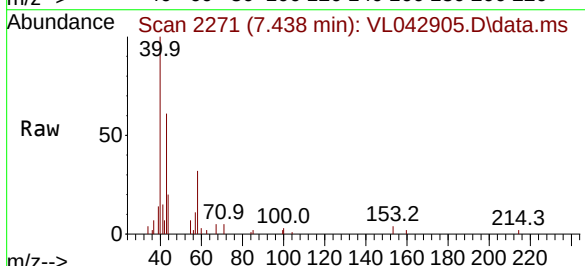
Tgt Ion: 43 Resp: 4166

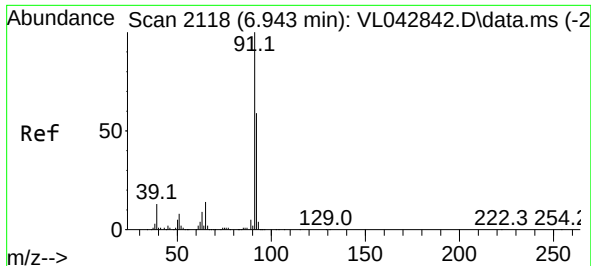
Ion Ratio Lower Upper

43 100

58 49.4 41.0 61.6

98 0.0 0.1 0.1#

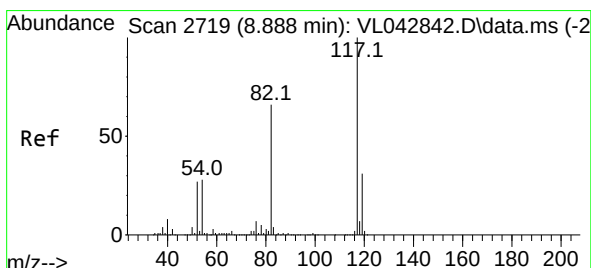
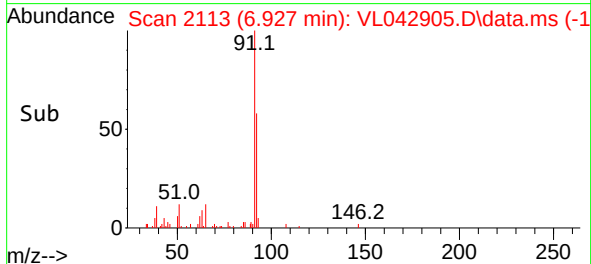
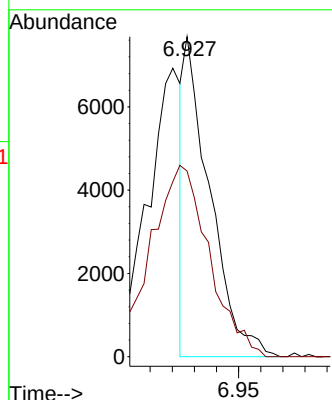
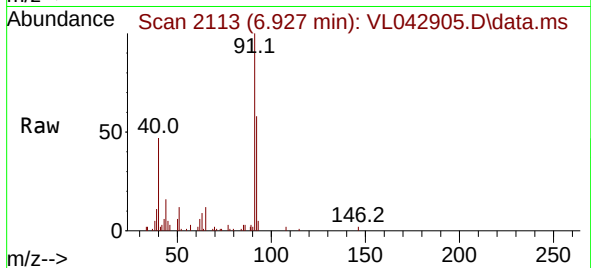




#53  
Toluene  
Concen: 0.147 ppbv  
RT: 6.927 min Scan# 2113  
Delta R.T. 0.013 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

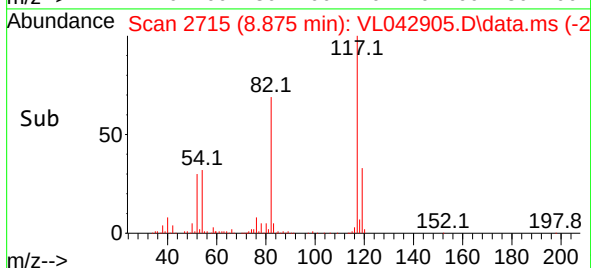
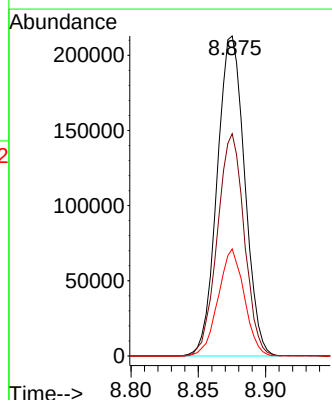
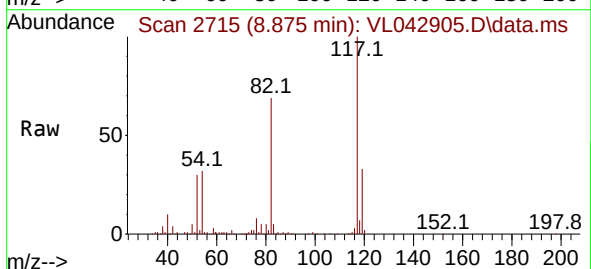
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

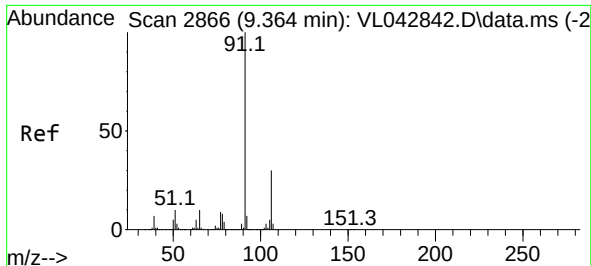
Tgt Ion: 91 Resp: 6220  
Ion Ratio Lower Upper  
91 100  
92 139.5 47.8 71.6#



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.875 min Scan# 2715  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 117 Resp: 303028  
Ion Ratio Lower Upper  
117 100  
82 67.9 54.6 81.8  
119 31.7 25.9 38.9





#58

Ethyl Benzene

Concen: 0.053 ppbv

RT: 9.348 min Scan# 2861

Delta R.T. 0.003 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA\_L

ClientSampleId :

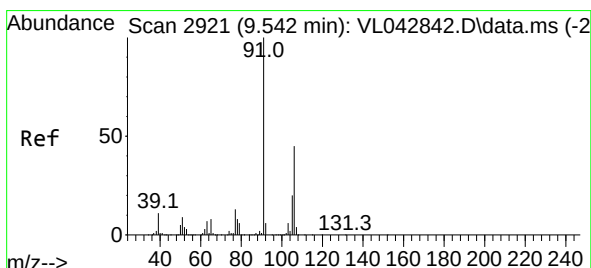
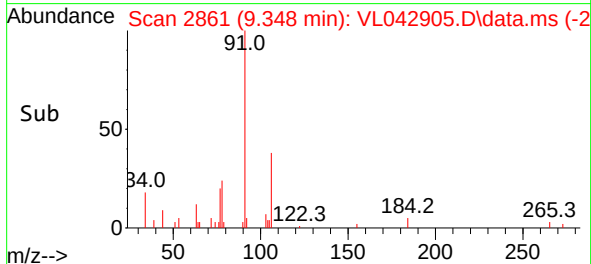
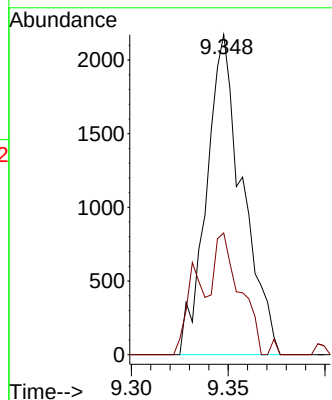
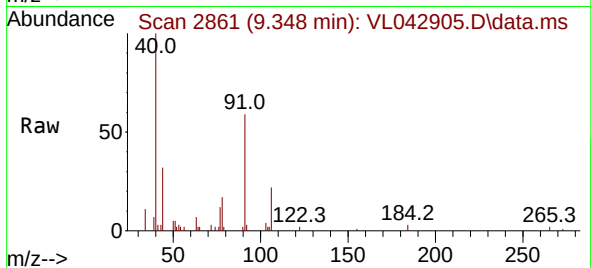
IA-2DUP

Tgt Ion: 91 Resp: 2812

Ion Ratio Lower Upper

91 100

106 38.1 23.9 35.9#



#59

m/p-Xylene

Concen: 0.039 ppbv

RT: 9.545 min Scan# 2922

Delta R.T. 0.006 min

Lab File: VL042905.D

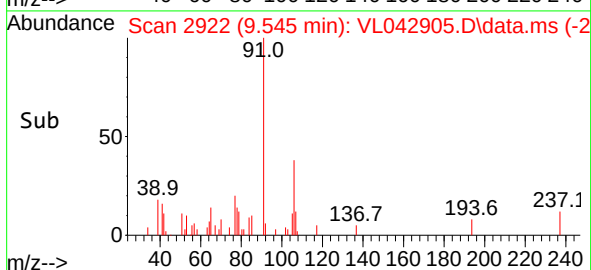
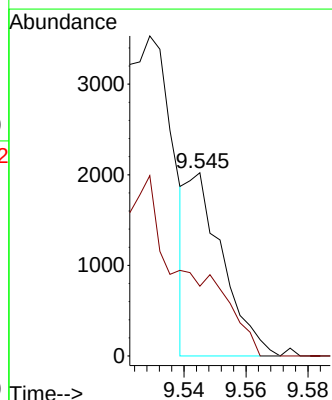
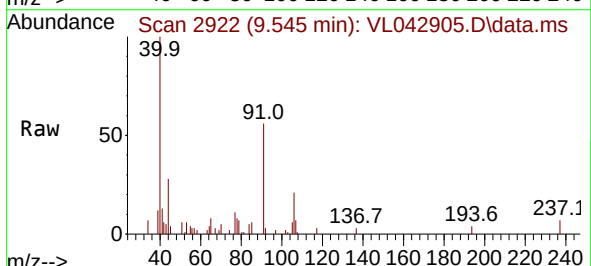
Acq: 08 Sep 2025 15:59

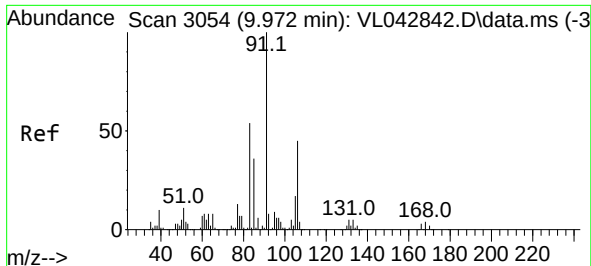
Tgt Ion: 91 Resp: 1627

Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0

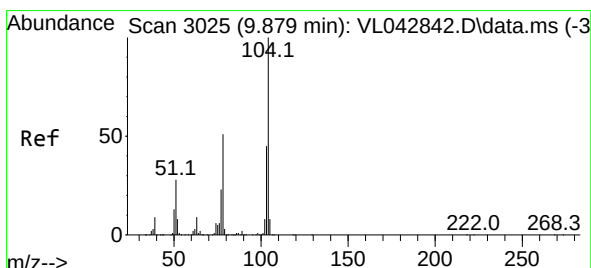
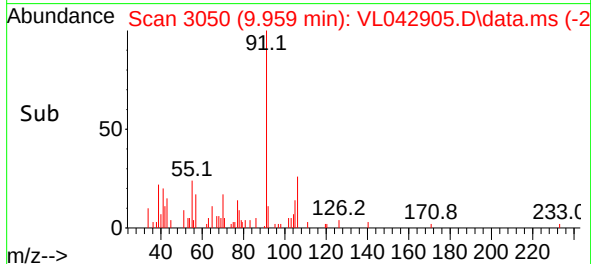
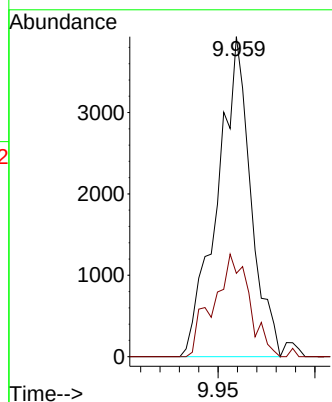
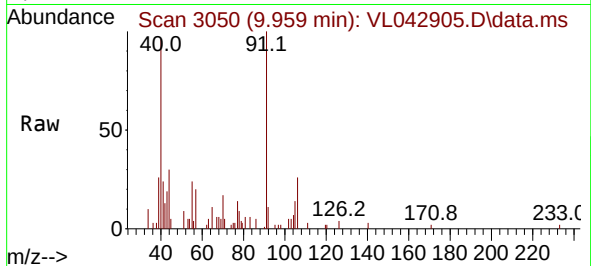




#60  
o-Xylene  
Concen: 0.112 ppbv  
RT: 9.959 min Scan# 3050  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

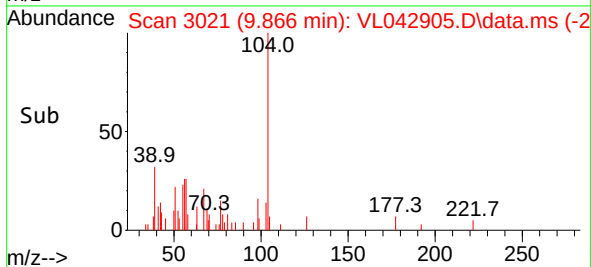
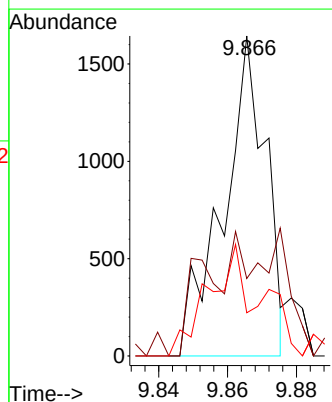
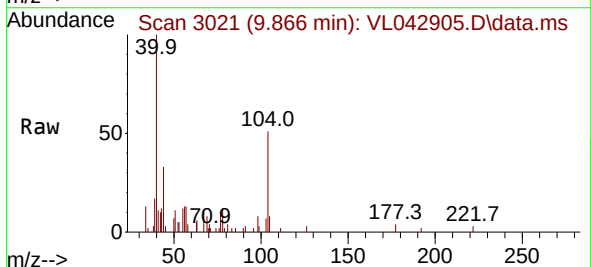
Instrument :  
MSVOA\_1  
ClientSampleId :  
IA-2DUP

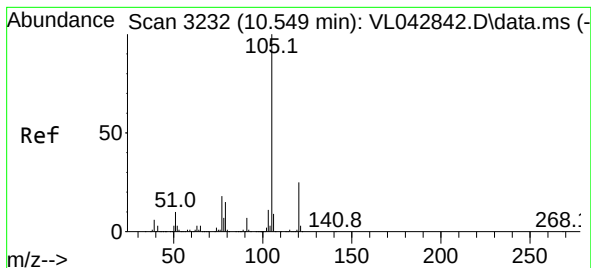
Tgt Ion: 91 Resp: 4723  
Ion Ratio Lower Upper  
91 100  
106 35.0 21.8 65.4



#61  
Styrene  
Concen: 0.071 ppbv  
RT: 9.866 min Scan# 3021  
Delta R.T. 0.006 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion: 104 Resp: 1409  
Ion Ratio Lower Upper  
104 100  
78 0.0 40.6 61.0#  
103 44.3 37.7 56.5





#62

Isopropylbenzene

Concen: 0.032 ppbv

RT: 10.529 min Scan# 31

Delta R.T. -0.000 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA\_L

ClientSampleId :

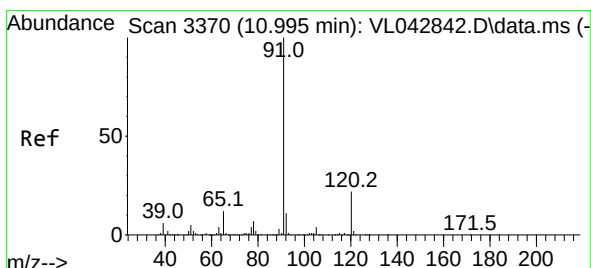
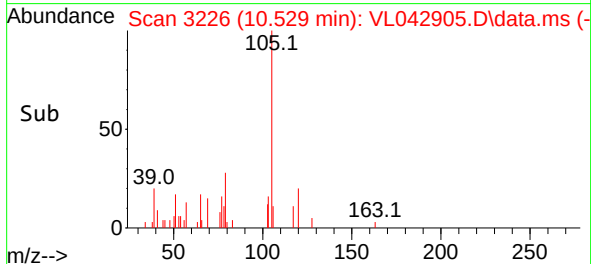
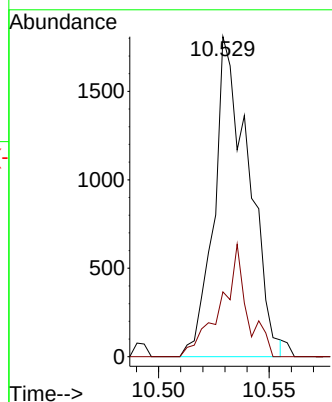
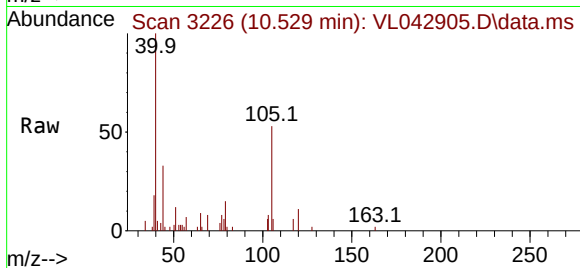
IA-2DUP

Tgt Ion:105 Resp: 1966

Ion Ratio Lower Upper

105 100

120 26.9 20.6 30.8



#64

n-propylbenzene

Concen: 0.037 ppbv

RT: 10.989 min Scan# 3368

Delta R.T. 0.010 min

Lab File: VL042905.D

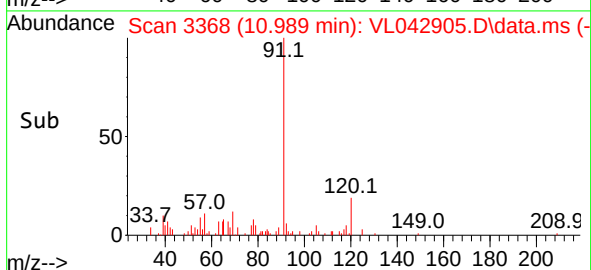
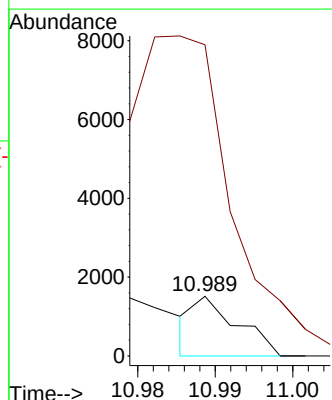
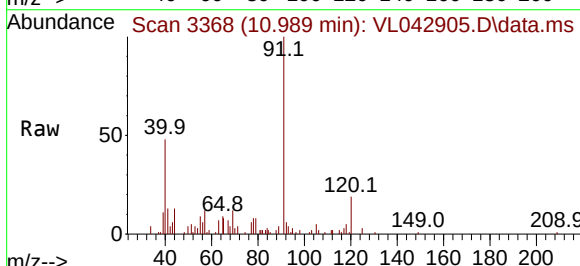
Acq: 08 Sep 2025 15:59

Tgt Ion:120 Resp: 589

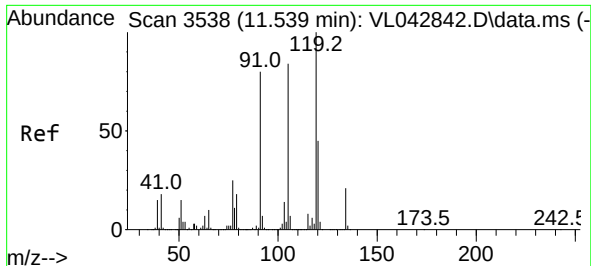
Ion Ratio Lower Upper

120 100

91 1611.9 375.8 563.6#



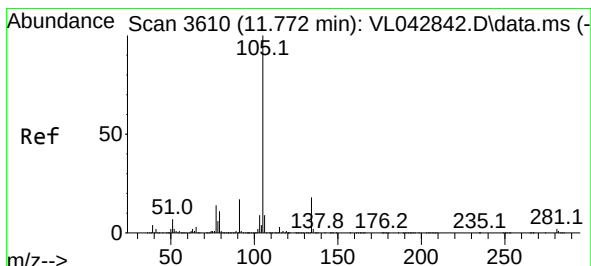
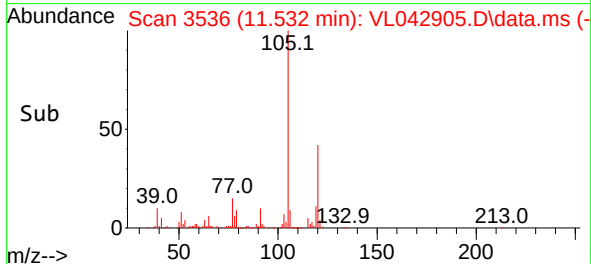
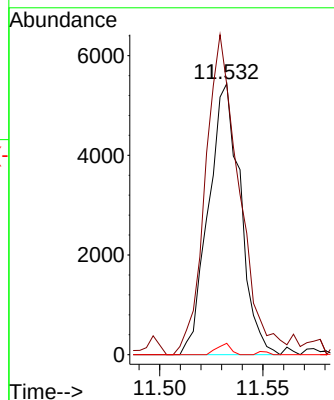
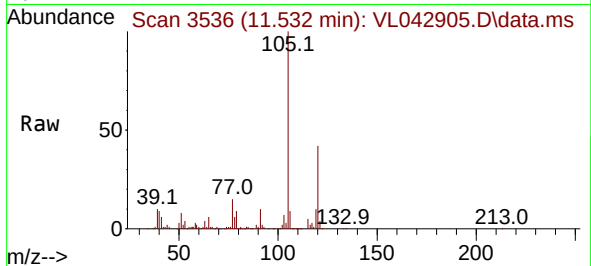




#65  
tert-Butylbenzene  
Concen: 0.108 ppbv  
RT: 11.532 min Scan# 3536  
Delta R.T. 0.010 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

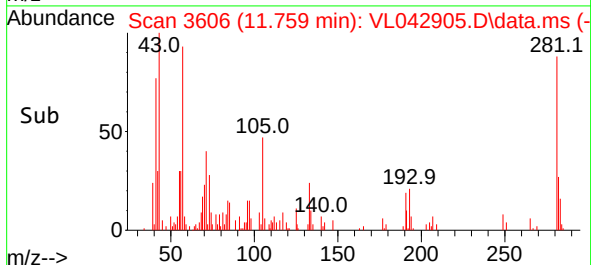
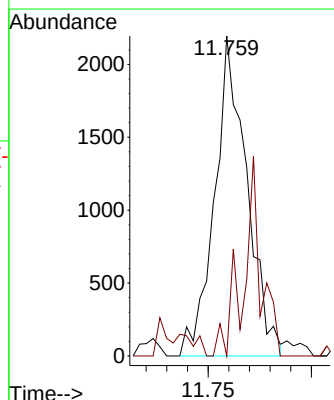
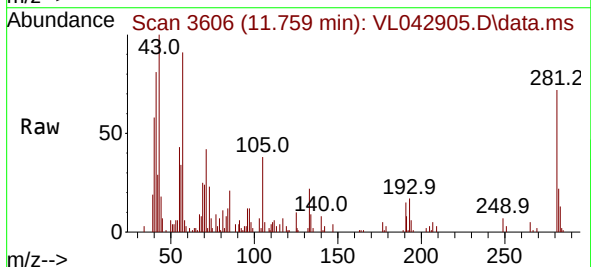
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

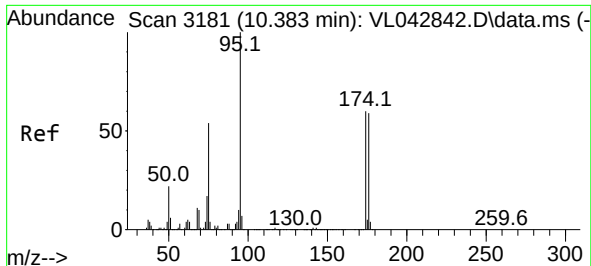
Tgt Ion:119 Resp: 5846  
Ion Ratio Lower Upper  
119 100  
91 129.6 63.9 95.9#  
134 2.2 17.0 25.4#



#67  
sec-Butylbenzene  
Concen: 0.031 ppbv  
RT: 11.759 min Scan# 3606  
Delta R.T. -0.000 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

Tgt Ion:105 Resp: 2374  
Ion Ratio Lower Upper  
105 100  
134 42.0 14.9 22.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.380 ppbv

RT: 10.370 min Scan# 3181

Delta R.T. 0.006 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

Instrument :

MSVOA\_L

ClientSampleId :

IA-2DUP

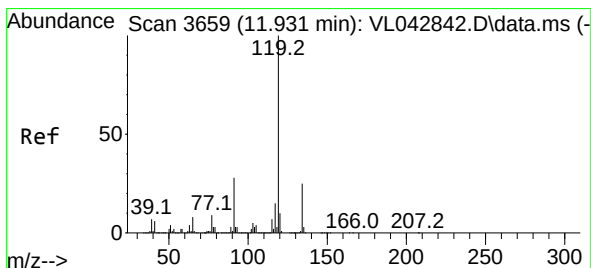
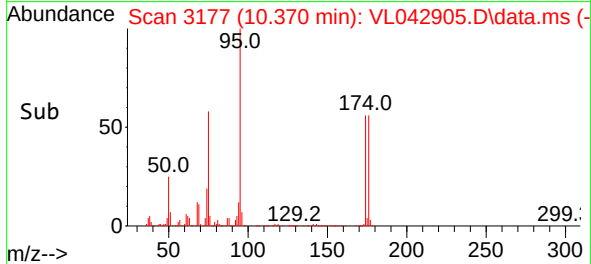
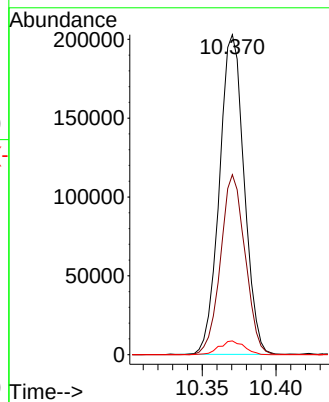
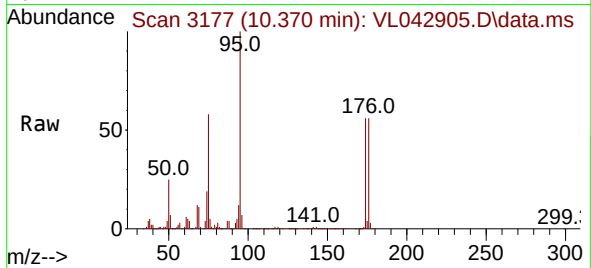
Tgt Ion: 95 Resp: 235889

Ion Ratio Lower Upper

95 100

174 56.1 48.4 72.6

175 4.4 3.8 5.8



#69

p-Isopropyltoluene

Concen: 0.064 ppbv

RT: 11.921 min Scan# 3656

Delta R.T. 0.003 min

Lab File: VL042905.D

Acq: 08 Sep 2025 15:59

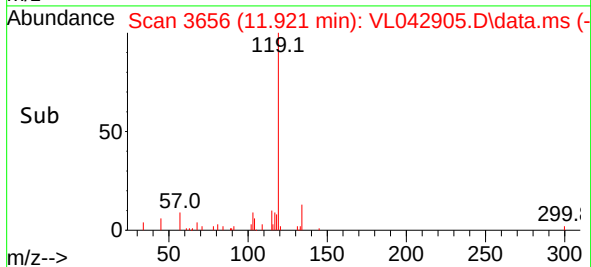
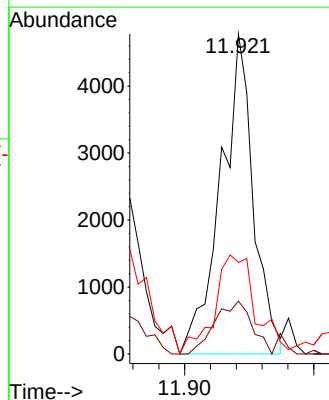
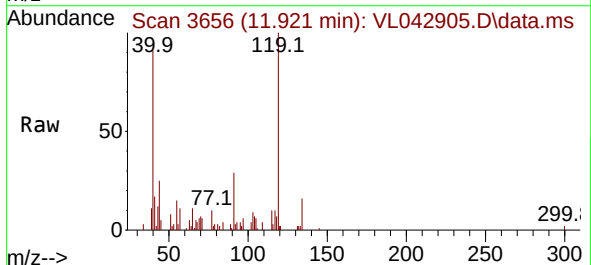
Tgt Ion: 119 Resp: 4177

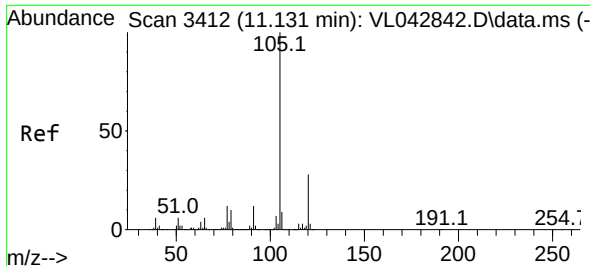
Ion Ratio Lower Upper

119 100

134 21.0 20.6 30.8

91 43.0 22.6 34.0#

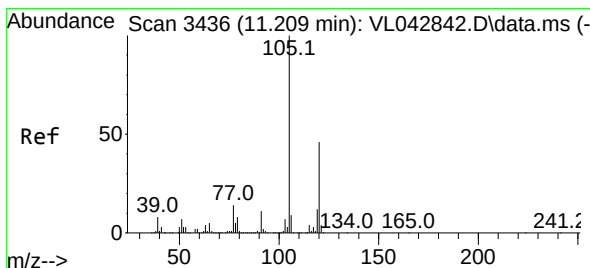
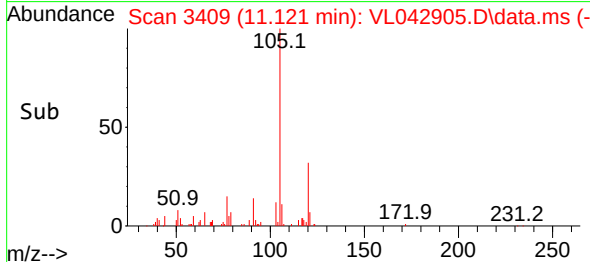
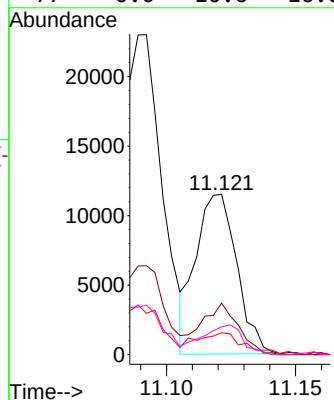
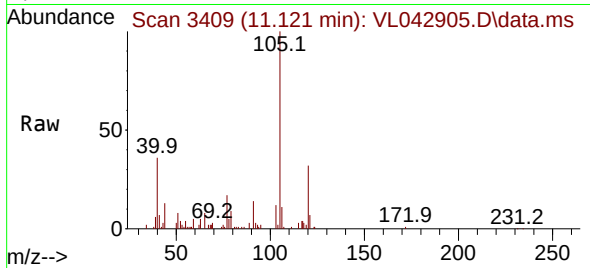




#72  
4-Ethyltoluene  
Concen: 0.248 ppbv  
RT: 11.121 min Scan# 3412  
Delta R.T. 0.003 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

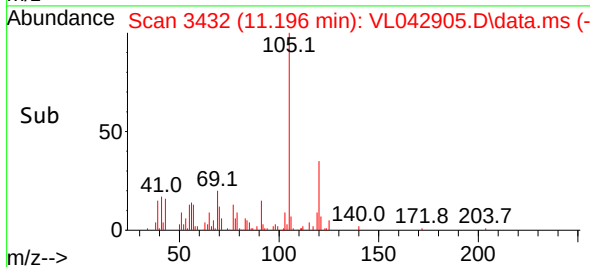
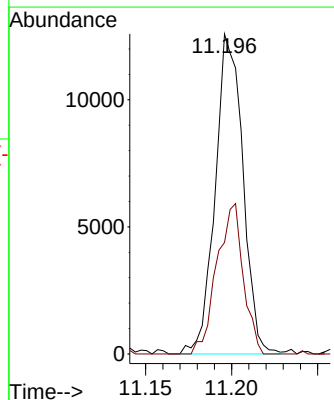
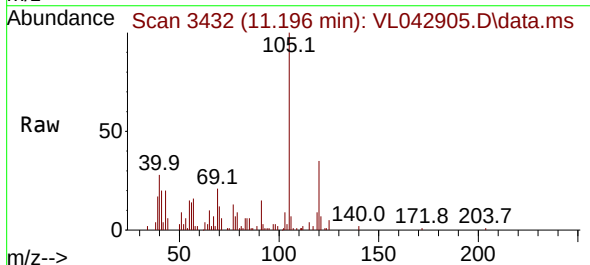
Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-2DUP

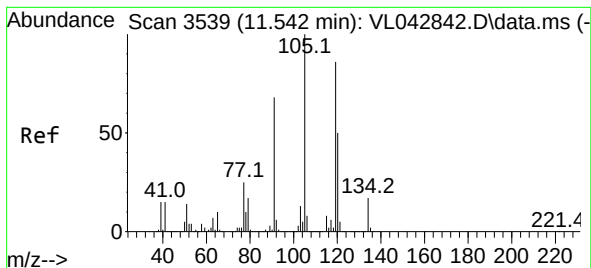
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 12693 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 0.0   | 23.4  | 35.2# |
| 91        | 0.0   | 9.8   | 14.6# |
| 77        | 0.0   | 10.6  | 16.0# |



#73  
1,3,5-Trimethylbenzene  
Concen: 0.324 ppbv  
RT: 11.196 min Scan# 3432  
Delta R.T. -0.000 min  
Lab File: VL042905.D  
Acq: 08 Sep 2025 15:59

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 105   | Resp: | 14080 |
| Ion Ratio | Lower | Upper |       |
| 105       | 100   |       |       |
| 120       | 34.8  | 36.6  | 54.8# |





#74

1,2,4-Trimethylbenzene

Concen: 1.124 ppbv

RT: 11.532 min Scan# 3

Delta R.T. 0.003 min

Lab File: VL042905.D

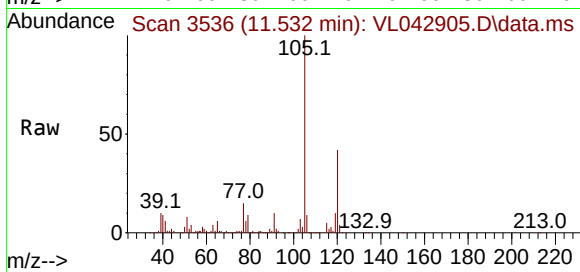
Acq: 08 Sep 2025 15:59

Instrument :

MSVOA\_L

ClientSampleId :

IA-2DUP



Tgt Ion:105 Resp: 53636

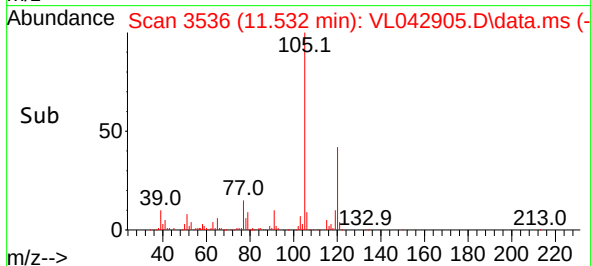
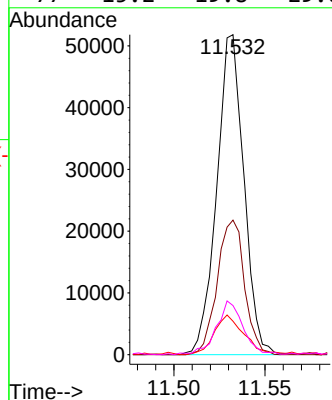
Ion Ratio Lower Upper

105 100

120 42.0 39.8 59.6

91 10.5 54.2 81.4#

77 15.2 19.8 29.6#



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL090825\  
 Data File : VL042906.D  
 Acq On : 08 Sep 2025 16:33  
 Operator : SY/MD  
 Sample : Q3038-01 4X  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-1

Quant Time: Sep 09 00:57:47 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL081325AIR.M  
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022  
 QLast Update : Tue Sep 09 00:52:26 2025  
 Response via : Initial Calibration

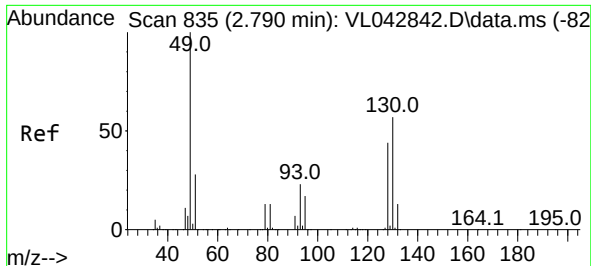
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 2.780  | 49    | 142770   | 10.000   | ppbv   | 0.00     |
| 33) 1,4-Difluorobenzene     | 3.949  | 114   | 358223   | 10.000   | ppbv   | 0.00     |
| 55) Chlorobenzene-d5        | 8.872  | 117   | 300604   | 10.000   | ppbv   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 68) 1-Bromo-4-Fluorobenzene | 10.370 | 95    | 220147   | 9.765    | ppbv   | 0.00     |
| Spiked Amount               | 10.000 | Range | 65 - 135 | Recovery | =      | 97.700%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane  | 1.492  | 85    | 2637     | 0.126    | ppbv   | 100      |
| 3) Chlorodifluoromethane    | 1.470  | 51    | 152267   | 6.584    | ppbv   | 94       |
| 4) Chloromethane            | 1.528  | 50    | 1401     | 0.166    | ppbv   | 88       |
| 7) Chloroethane             | 1.489  | 64    | 6952     | 2.141    | ppbv # | 42       |
| 9) Propene                  | 1.615  | 41    | 3018     | 0.302    | ppbv   | 91       |
| 10) Heptane                 | 4.962  | 43    | 1067     | 0.040    | ppbv # | 26       |
| 11) Trichlorofluoromethane  | 1.874  | 101   | 1862     | 0.090    | ppbv   | 85       |
| 13) Ethanol                 | 1.719  | 45    | 21534    | 23.579   | ppbv   | 93       |
| 15) Acetone                 | 1.832  | 43    | 117769   | 6.236    | ppbv   | 93       |
| 16) 1,3-Butadiene           | 1.596  | 39    | 10410    | 1.216    | ppbv # | 28       |
| 17) tert-Butyl alcohol      | 1.884  | 59    | 4803     | 0.214    | ppbv   | 99       |
| 19) Isopropyl Alcohol       | 1.884  | 45    | 124685   | 11.054   | ppbv # | 37       |
| 20) Methylene Chloride      | 2.055  | 84    | 7932     | 1.003    | ppbv   | 86       |
| 21) Allyl Chloride          | 2.046  | 41    | 959      | 0.072    | ppbv # | 64       |
| 23) Vinyl Acetate           | 2.470  | 43    | 6886     | 0.265    | ppbv # | 32       |
| 25) Ethyl Acetate           | 2.819  | 43    | 16237    | 0.355    | ppbv # | 86       |
| 26) Hexane                  | 2.819  | 57    | 18740    | 0.888    | ppbv # | 46       |
| 27) Carbon Disulfide        | 2.143  | 76    | 1718     | 0.084    | ppbv # | 1        |
| 29) Chloroform              | 2.845  | 83    | 3811     | 0.127    | ppbv   | 91       |
| 34) 2-Butanone              | 2.554  | 43    | 83905    | 3.469    | ppbv   | 99       |
| 36) Benzene                 | 3.651  | 78    | 6417     | 0.187    | ppbv # | 74       |
| 38) Trichloroethene         | 4.535  | 130   | 659      | 0.042    | ppbv # | 63       |
| 39) 1,2-Dichloropropane     | 3.949  | 63    | 94790    | 7.566    | ppbv # | 25       |
| 44) 2,2,4-Trimethylpentane  | 4.632  | 57    | 4054     | 0.070    | ppbv # | 22       |
| 51) 2-Hexanone              | 7.435  | 43    | 1883     | 0.073    | ppbv # | 37       |
| 52) Tetrachloroethene       | 8.218  | 164   | 145329   | 11.711   | ppbv   | 96       |
| 53) Toluene                 | 6.923  | 91    | 8585     | 0.211    | ppbv   | 97       |
| 61) Styrene                 | 9.859  | 104   | 907      | 0.046    | ppbv # | 80       |
| 71) 2-Chlorotoluene         | 10.853 | 91    | 154255   | 3.250    | ppbv # | 45       |
| -----                       |        |       |          |          |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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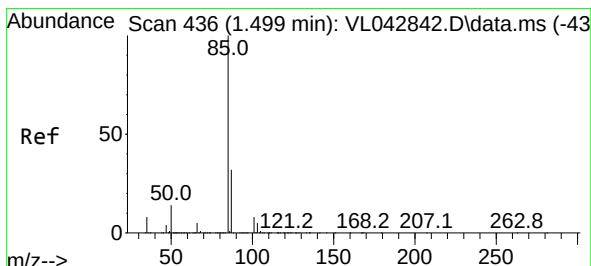
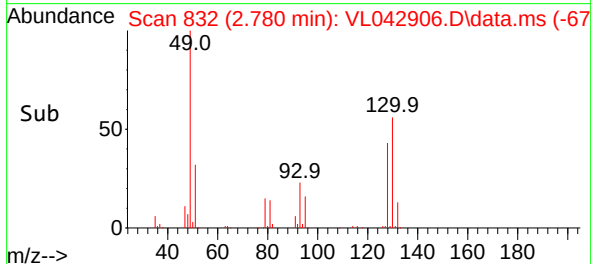
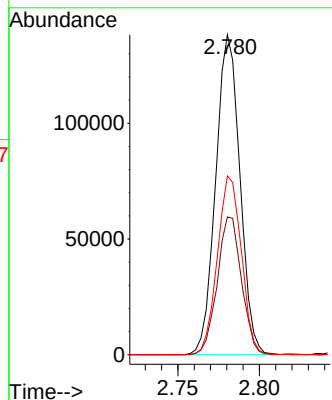
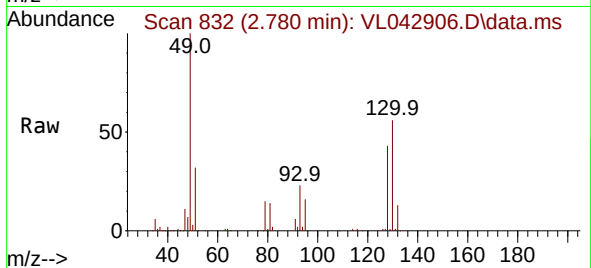




#1  
 Bromochloromethane  
 Concen: 10.000 ppbv  
 RT: 2.780 min Scan# 81  
 Delta R.T. 0.003 min  
 Lab File: VL042906.D  
 Acq: 08 Sep 2025 16:33

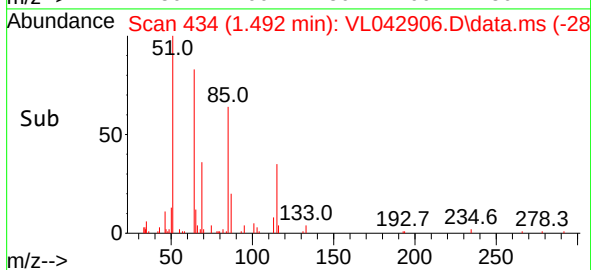
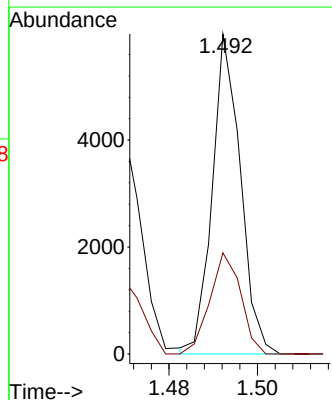
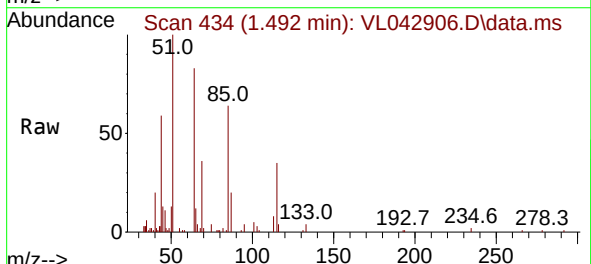
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-1

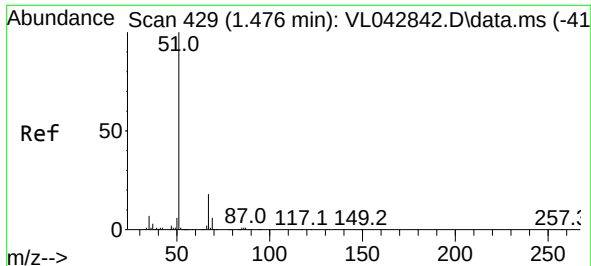
Tgt Ion: 49 Resp: 142770  
 Ion Ratio Lower Upper  
 49 100  
 128 43.0 23.7 71.1  
 130 55.5 30.6 91.6



#2  
 Dichlorodifluoromethane  
 Concen: 0.126 ppbv  
 RT: 1.492 min Scan# 434  
 Delta R.T. -0.000 min  
 Lab File: VL042906.D  
 Acq: 08 Sep 2025 16:33

Tgt Ion: 85 Resp: 2637  
 Ion Ratio Lower Upper  
 85 100  
 87 31.6 25.3 37.9

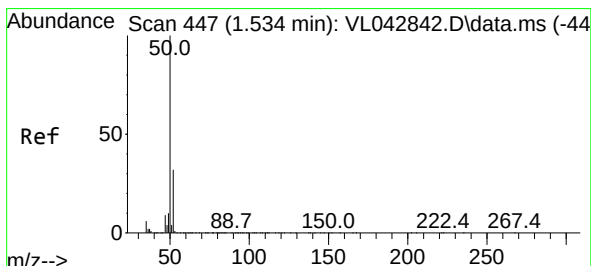
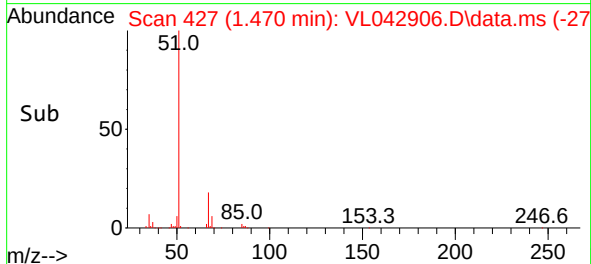
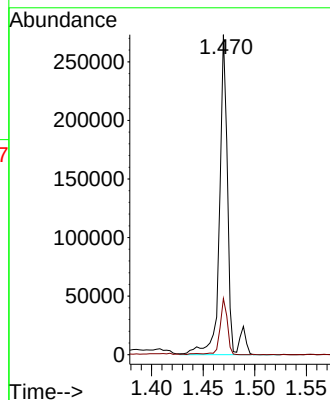
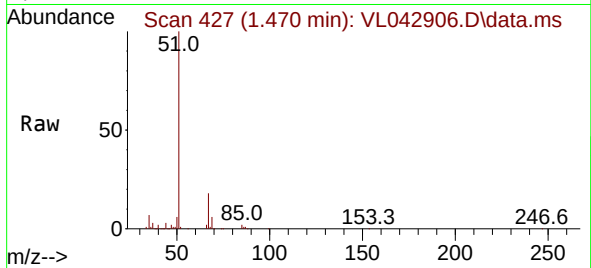




#3  
Chlorodifluoromethane  
Concen: 6.584 ppbv  
RT: 1.470 min Scan# 41  
Delta R.T. -0.000 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

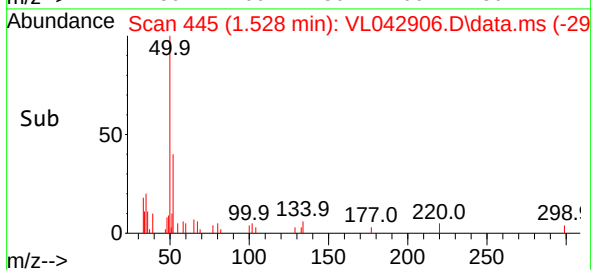
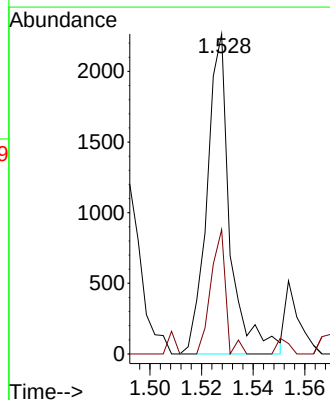
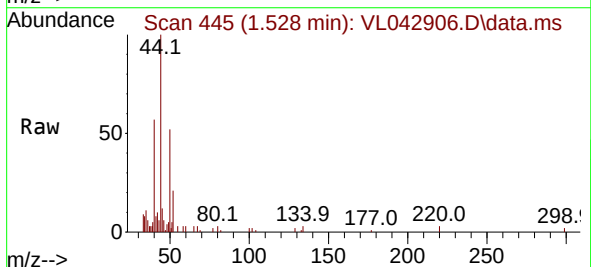
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

Tgt Ion: 51 Resp: 152267  
Ion Ratio Lower Upper  
51 100  
67 15.8 14.9 22.3

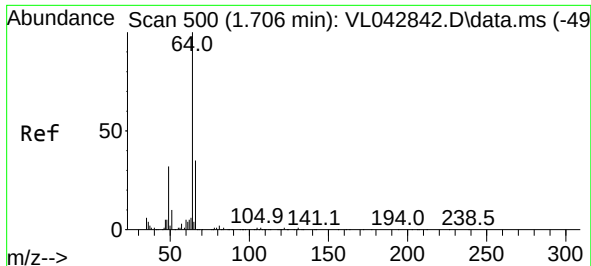


#4  
Chloromethane  
Concen: 0.166 ppbv  
RT: 1.528 min Scan# 445  
Delta R.T. -0.000 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 50 Resp: 1401  
Ion Ratio Lower Upper  
50 100  
52 38.9 25.9 38.9



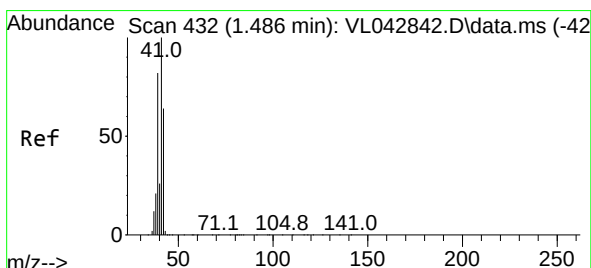
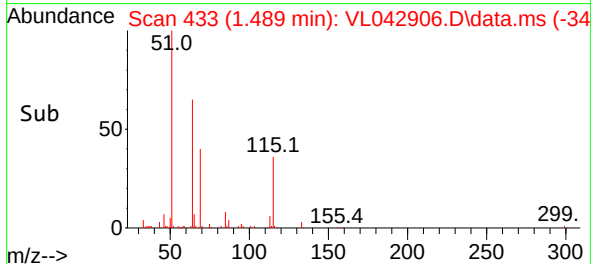
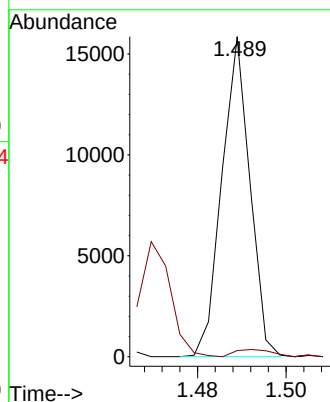
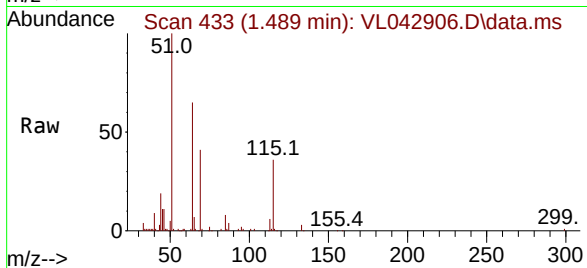




#7  
Chloroethane  
Concen: 2.141 ppbv  
RT: 1.489 min Scan# 41  
Delta R.T. -0.211 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

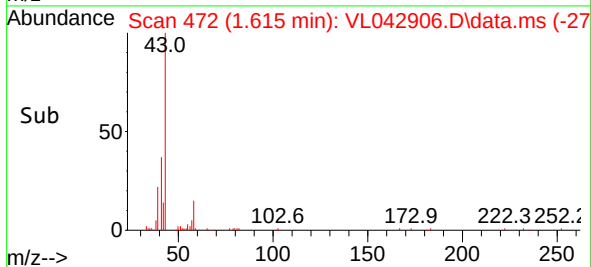
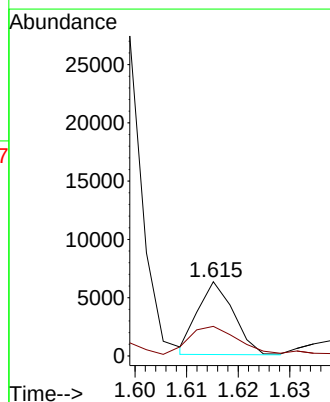
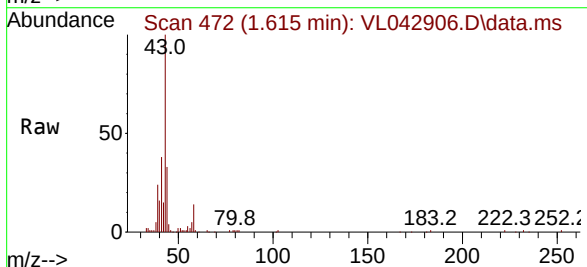
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

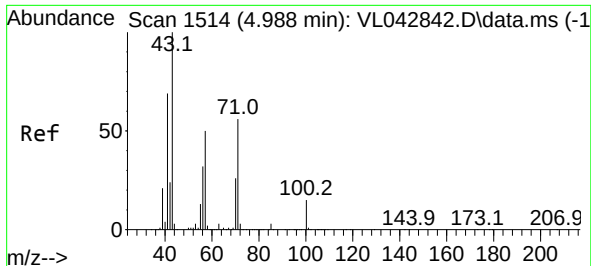
Tgt Ion: 64 Resp: 6952  
Ion Ratio Lower Upper  
64 100  
66 1.9 28.6 42.8#



#9  
Propene  
Concen: 0.302 ppbv  
RT: 1.615 min Scan# 472  
Delta R.T. 0.139 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 41 Resp: 3018  
Ion Ratio Lower Upper  
41 100  
42 73.7 53.0 79.4

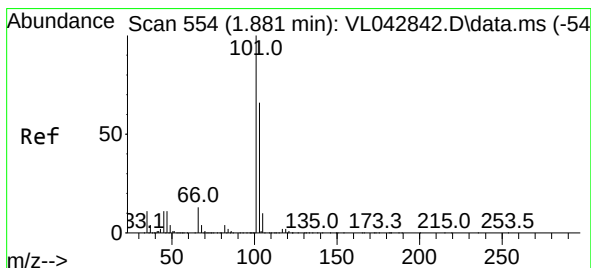
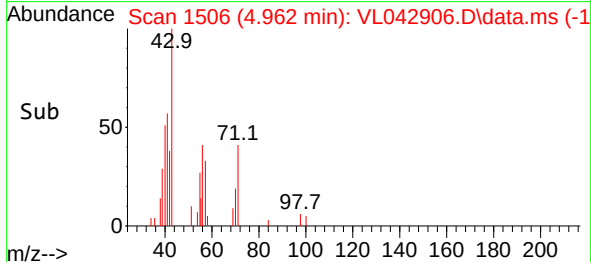
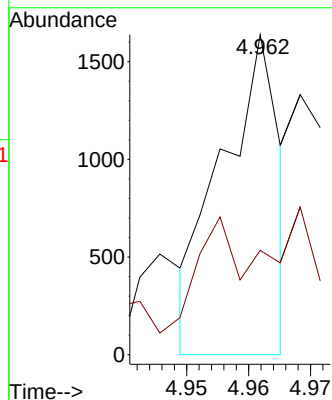
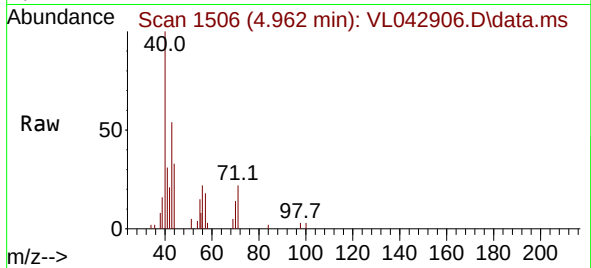




#10  
Heptane  
Concen: 0.040 ppbv  
RT: 4.962 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

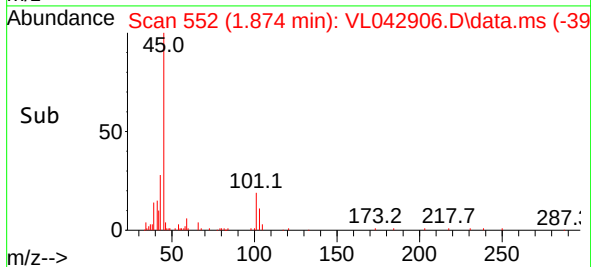
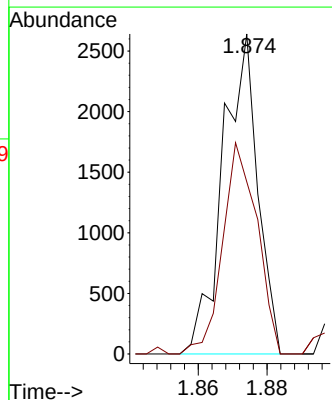
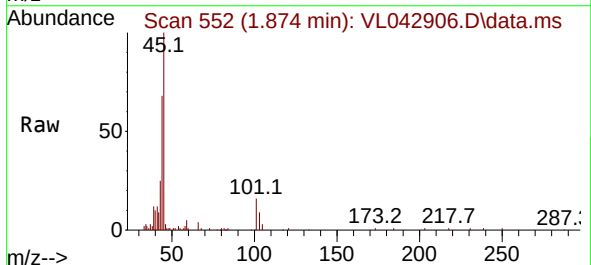
Instrument :  
MSVOA\_1  
ClientSampleId :  
SV-1

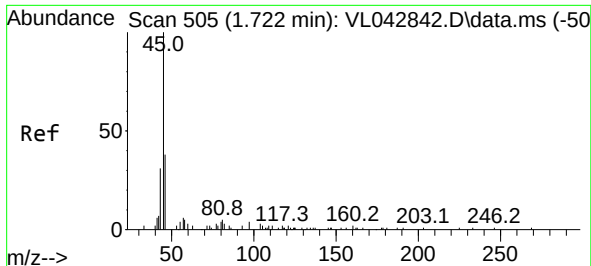
Tgt Ion: 43 Resp: 1067  
Ion Ratio Lower Upper  
43 100  
57 0.0 41.4 62.0#



#11  
Trichlorofluoromethane  
Concen: 0.090 ppbv  
RT: 1.874 min Scan# 552  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 101 Resp: 1862  
Ion Ratio Lower Upper  
101 100  
103 53.8 52.5 78.7

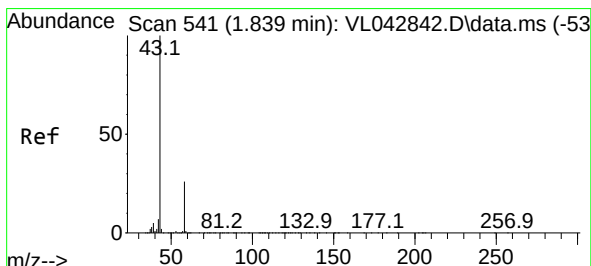
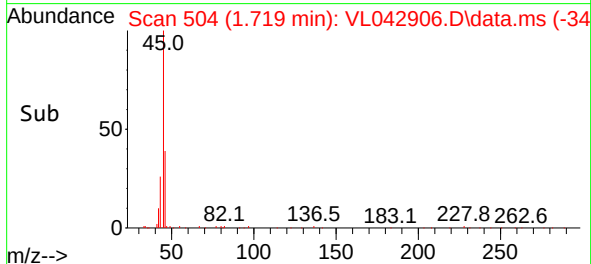
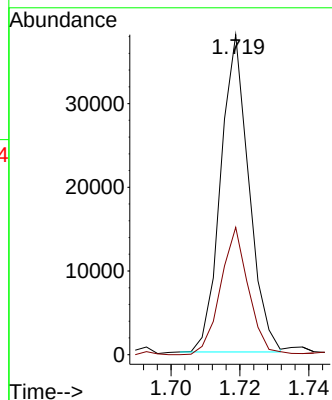
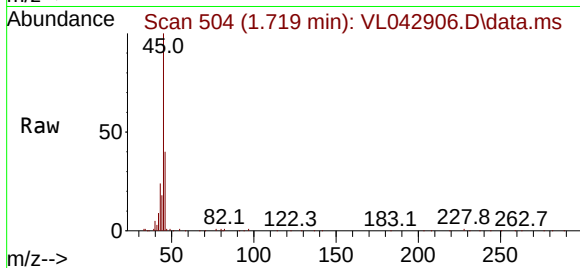




#13  
 Ethanol  
 Concen: 23.579 ppbv  
 RT: 1.719 min Scan# 505  
 Delta R.T. 0.003 min  
 Lab File: VL042906.D  
 Acq: 08 Sep 2025 16:33

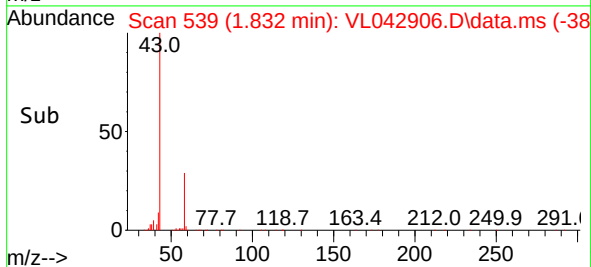
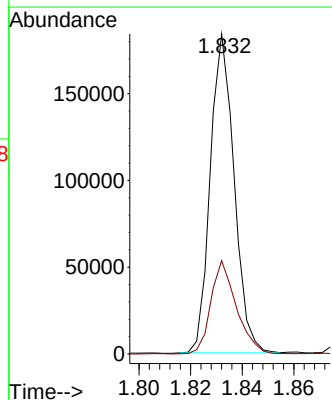
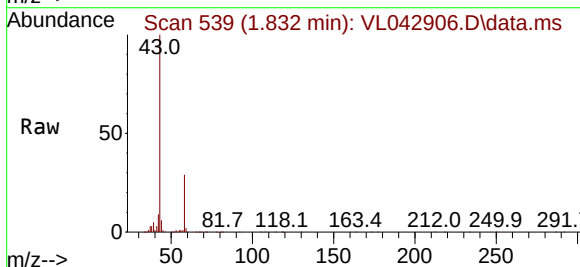
Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-1

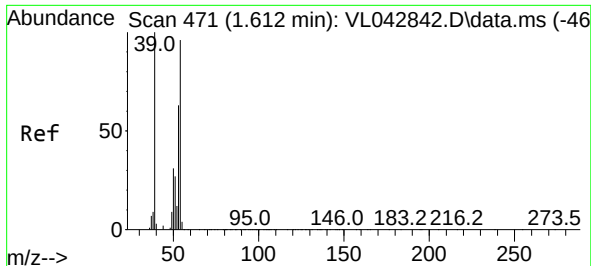
Tgt Ion: 45 Resp: 21534  
 Ion Ratio Lower Upper  
 45 100  
 46 39.5 17.5 69.9



#15  
 Acetone  
 Concen: 6.236 ppbv  
 RT: 1.832 min Scan# 539  
 Delta R.T. 0.003 min  
 Lab File: VL042906.D  
 Acq: 08 Sep 2025 16:33

Tgt Ion: 43 Resp: 117769  
 Ion Ratio Lower Upper  
 43 100  
 58 31.5 22.4 33.6

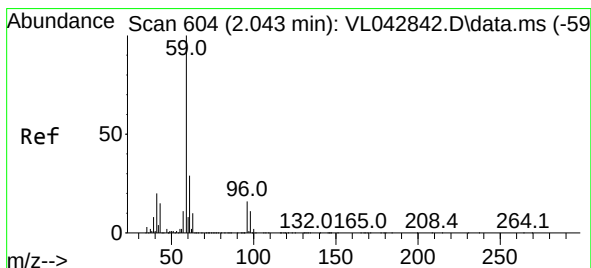
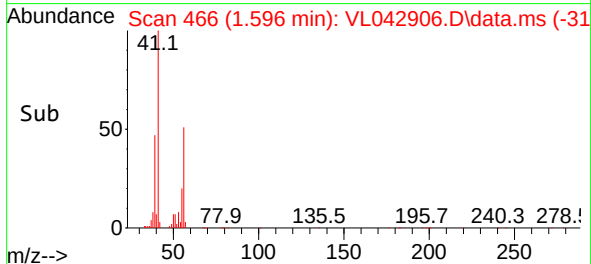
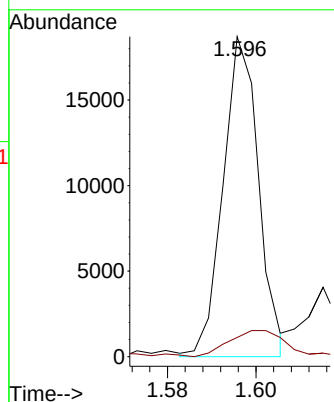
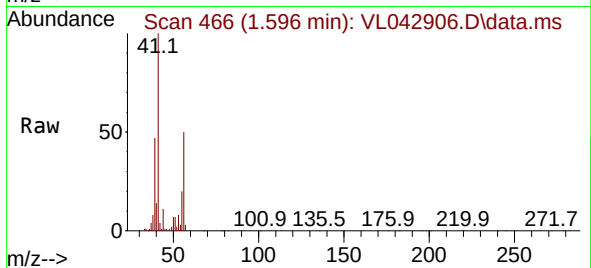




#16  
1,3-Butadiene  
Concen: 1.216 ppbv  
RT: 1.596 min Scan# 41  
Delta R.T. -0.007 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

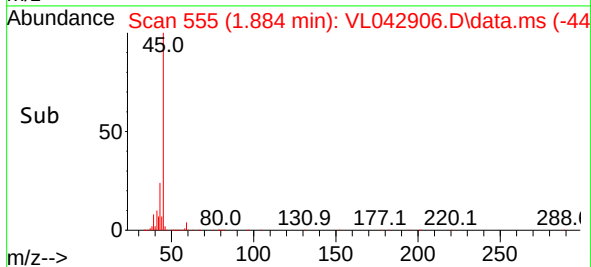
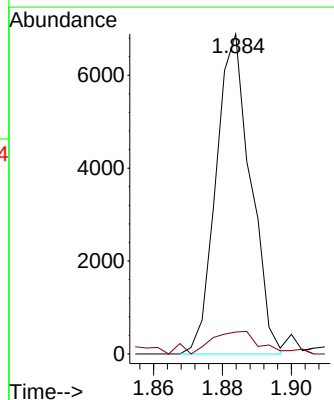
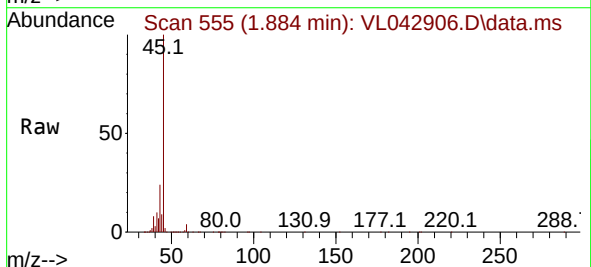
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

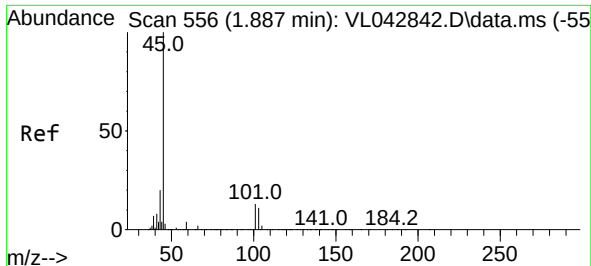
Tgt Ion: 39 Resp: 10410  
Ion Ratio Lower Upper  
39 100  
54 16.2 63.6 95.4#



#17  
tert-Butyl alcohol  
Concen: 0.214 ppbv  
RT: 1.884 min Scan# 555  
Delta R.T. -0.149 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 59 Resp: 4803  
Ion Ratio Lower Upper  
59 100  
57 11.0 9.0 13.4

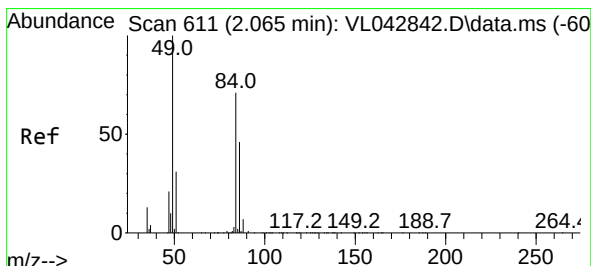
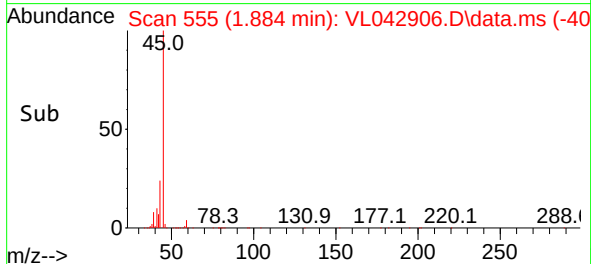
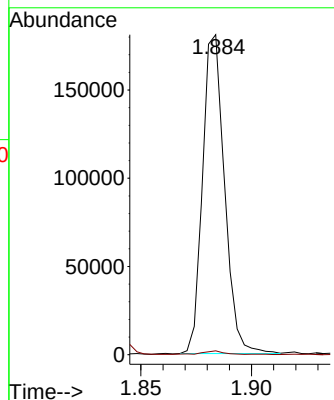
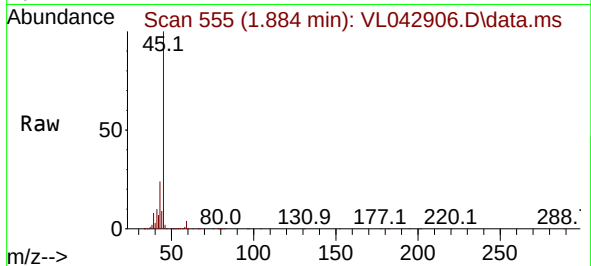




#19  
Isopropyl Alcohol  
Concen: 11.054 ppbv  
RT: 1.884 min Scan# 511  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

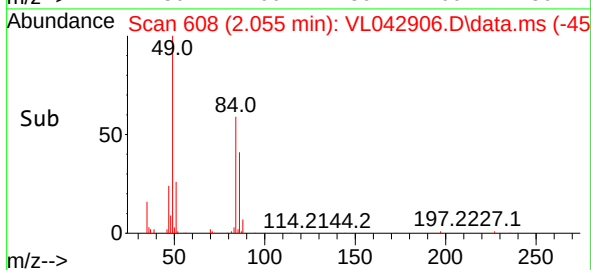
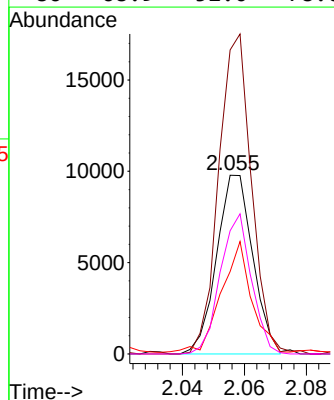
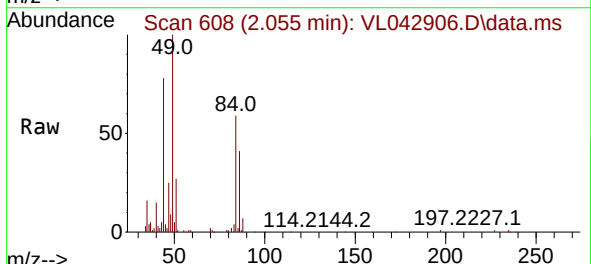
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

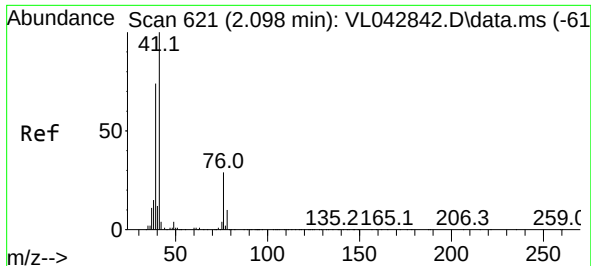
Tgt Ion: 45 Resp: 124685  
Ion Ratio Lower Upper  
45 100  
58 1.9 32.7 49.1#



#20  
Methylene Chloride  
Concen: 1.003 ppbv  
RT: 2.055 min Scan# 608  
Delta R.T. -0.000 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 84 Resp: 7932  
Ion Ratio Lower Upper  
84 100  
49 168.1 112.3 168.5  
51 44.9 36.0 54.0  
86 68.9 52.0 78.0

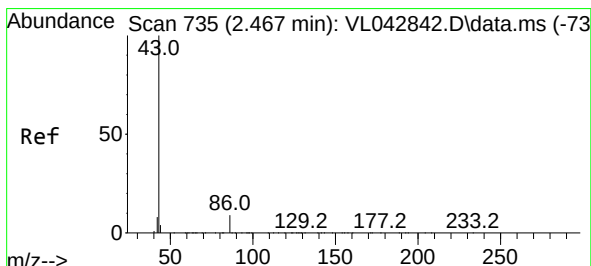
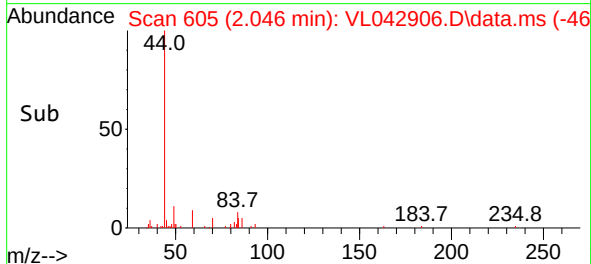
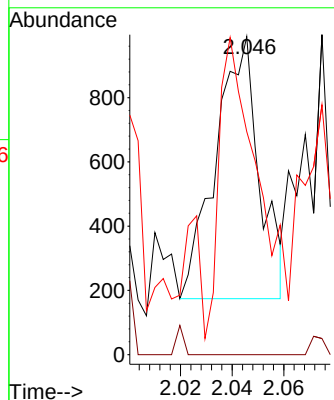
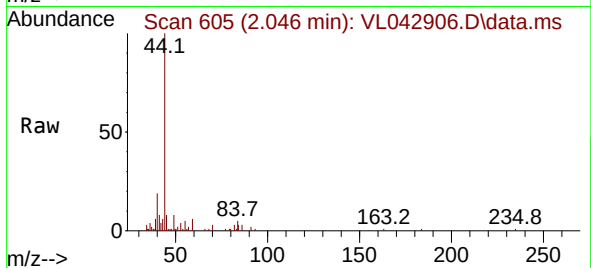




#21  
Allyl Chloride  
Concen: 0.072 ppbv  
RT: 2.046 min Scan# 605  
Delta R.T. -0.042 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

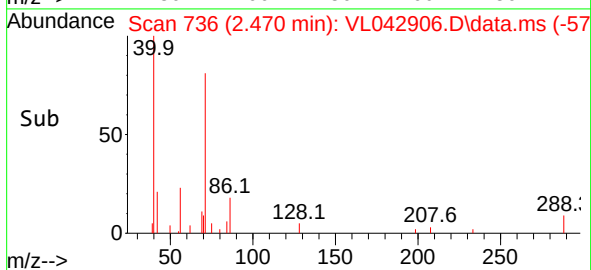
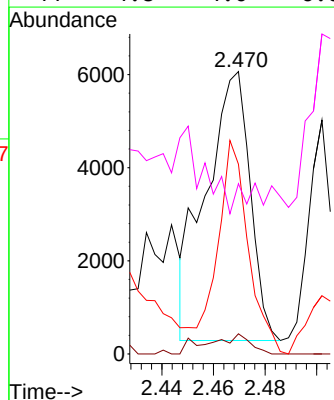
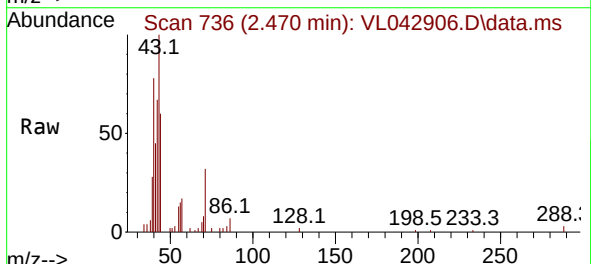
Instrument :  
MSVOA\_1  
ClientSampleId :  
SV-1

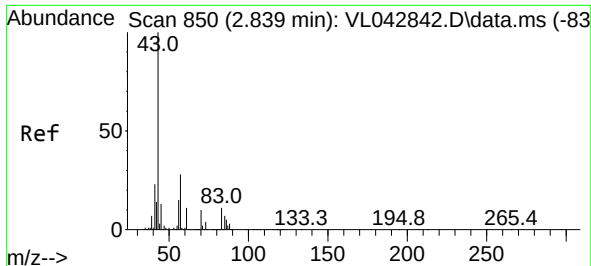
Tgt Ion: 41 Resp: 959  
Ion Ratio Lower Upper  
41 100  
76 0.0 23.9 35.9#  
39 96.1 57.8 86.6#



#23  
Vinyl Acetate  
Concen: 0.265 ppbv  
RT: 2.470 min Scan# 736  
Delta R.T. 0.016 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 43 Resp: 6886  
Ion Ratio Lower Upper  
43 100  
86 7.5 6.6 9.8  
42 69.6 7.0 10.6#  
44 4.8 4.0 6.0

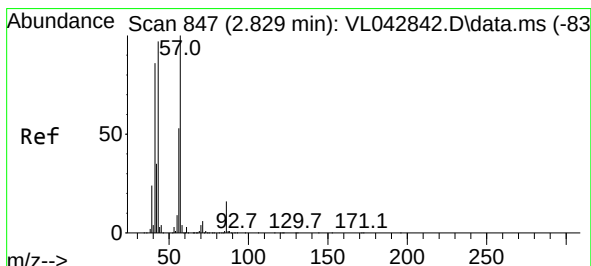
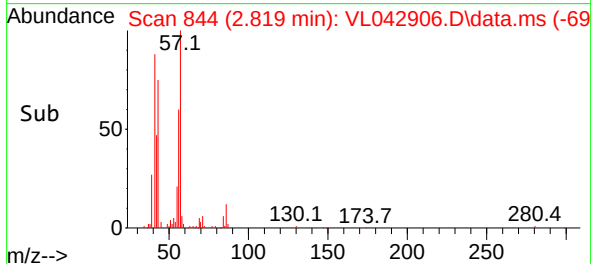
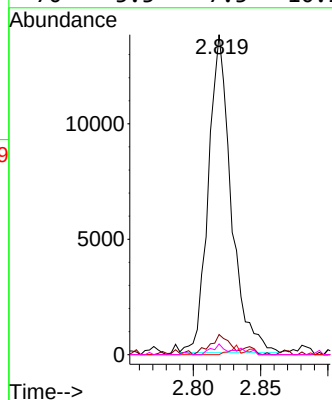
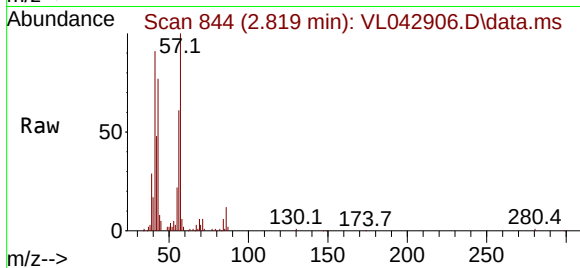




#25  
Ethyl Acetate  
Concen: 0.355 ppbv  
RT: 2.819 min Scan# 844  
Delta R.T. -0.007 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

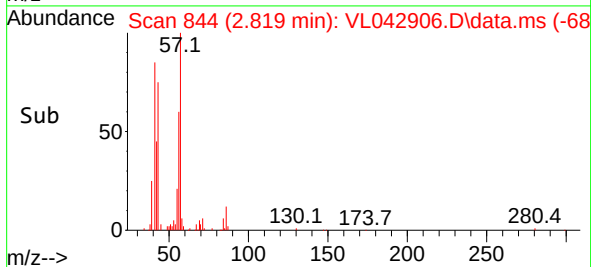
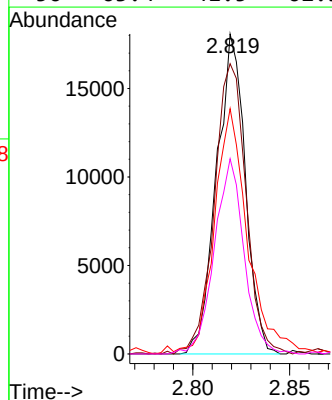
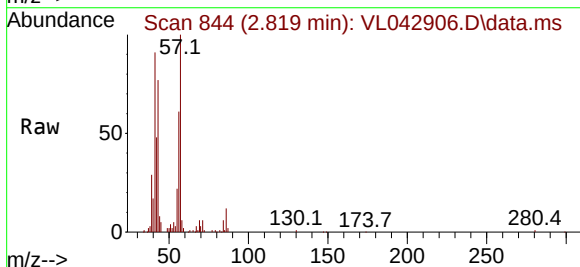
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

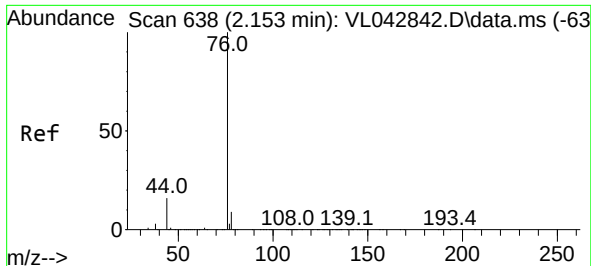
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 16237 |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 45 7.7      | 8.1 12.1#   |
| 61 1.8      | 7.4 11.2#   |
| 70 3.3      | 7.3 10.9#   |



#26  
Hexane  
Concen: 0.888 ppbv  
RT: 2.819 min Scan# 844  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

|             |              |
|-------------|--------------|
| Tgt Ion: 57 | Resp: 18740  |
| Ion Ratio   | Lower Upper  |
| 57 100      |              |
| 41 101.0    | 68.6 103.0   |
| 43 86.5     | 168.5 252.7# |
| 56 63.4     | 41.5 62.3#   |

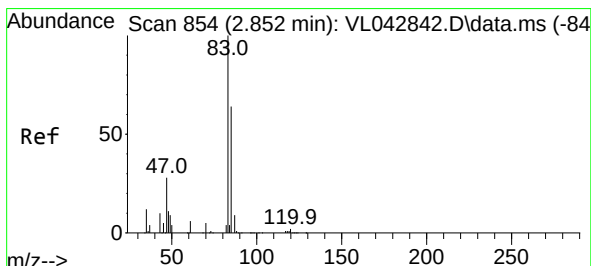
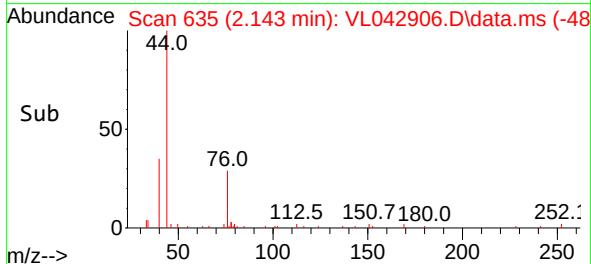
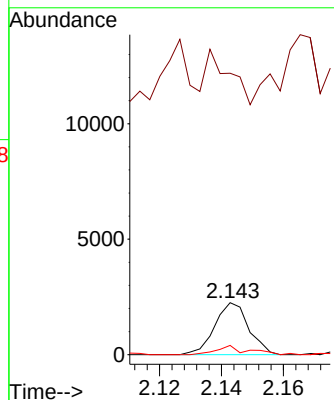
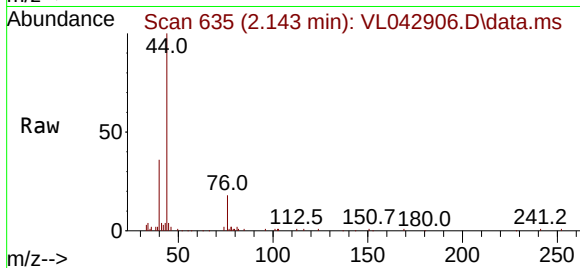




#27  
Carbon Disulfide  
Concen: 0.084 ppbv  
RT: 2.143 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

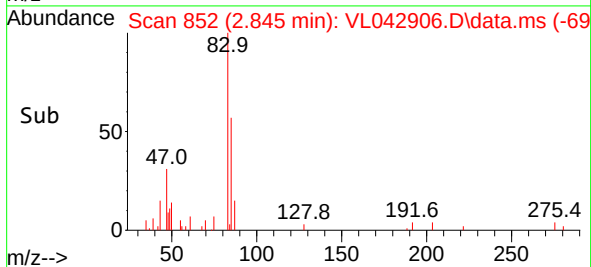
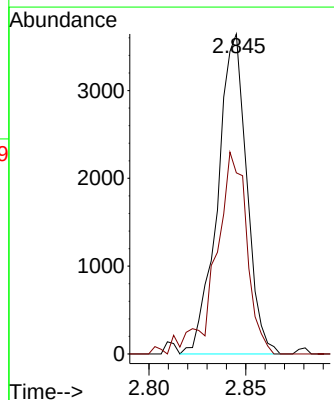
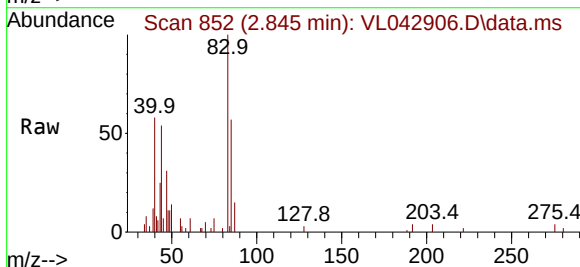
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

Tgt Ion: 76 Resp: 1718  
Ion Ratio Lower Upper  
76 100  
44 1182.2 15.9 23.9#  
78 17.8 9.5 14.3#

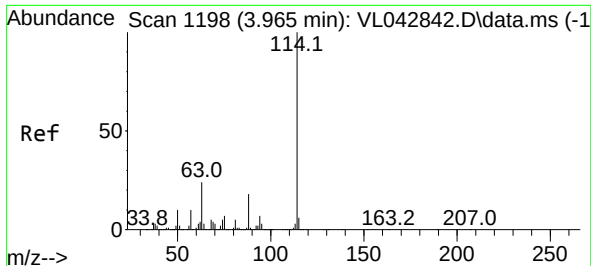


#29  
Chloroform  
Concen: 0.127 ppbv  
RT: 2.845 min Scan# 852  
Delta R.T. 0.006 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 83 Resp: 3811  
Ion Ratio Lower Upper  
83 100  
85 56.6 51.1 76.7







#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. 0.006 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Instrument :

MSVOA\_L

ClientSampleId :

SV-1

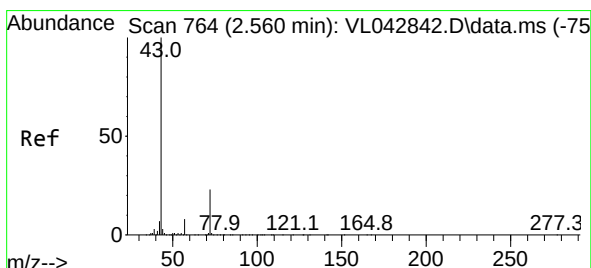
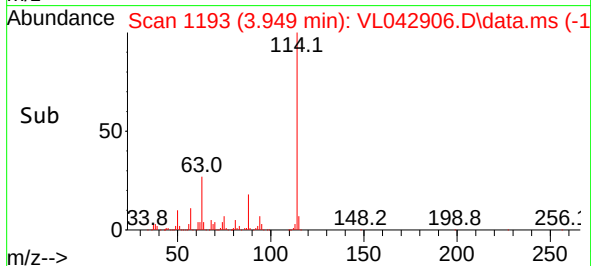
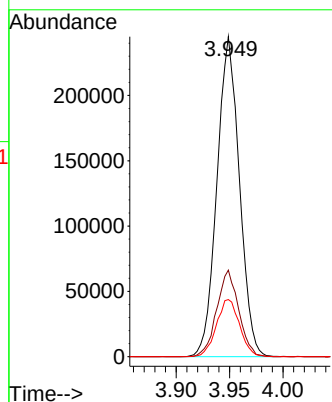
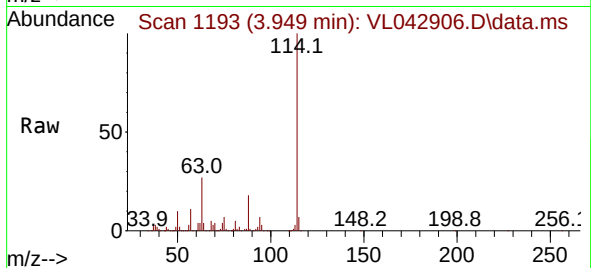
Tgt Ion:114 Resp: 358223

Ion Ratio Lower Upper

114 100

63 26.5 19.7 29.5

88 18.4 14.4 21.6



#34

2-Butanone

Concen: 3.469 ppbv

RT: 2.554 min Scan# 762

Delta R.T. 0.006 min

Lab File: VL042906.D

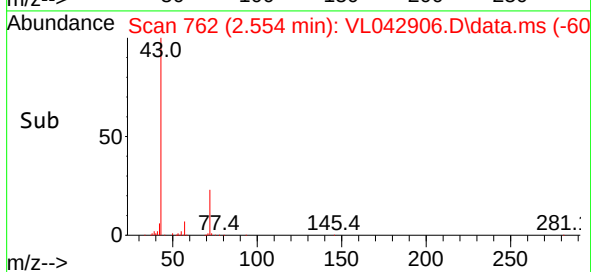
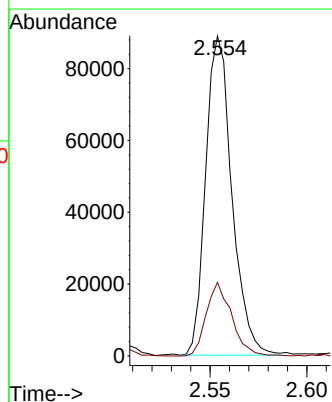
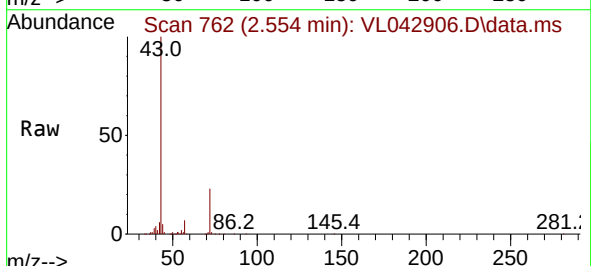
Acq: 08 Sep 2025 16:33

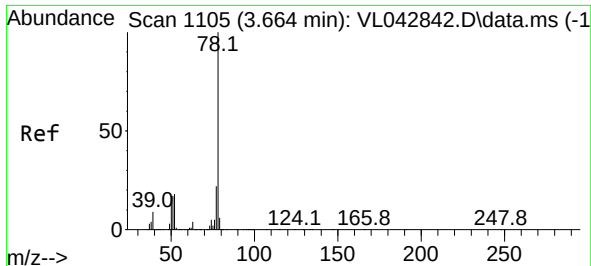
Tgt Ion: 43 Resp: 83905

Ion Ratio Lower Upper

43 100

72 22.6 18.6 28.0

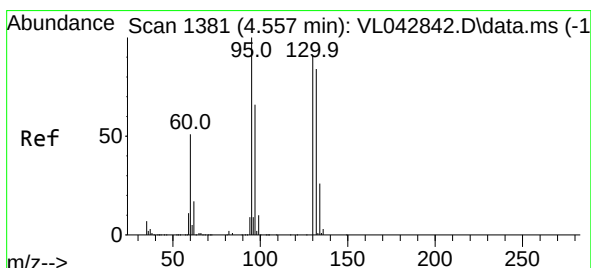
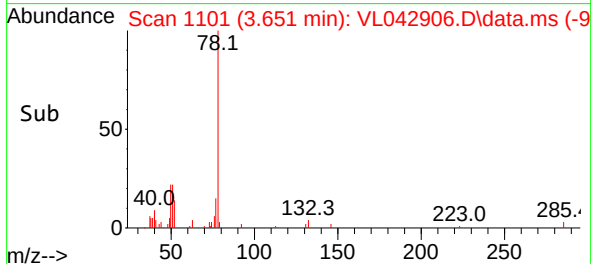
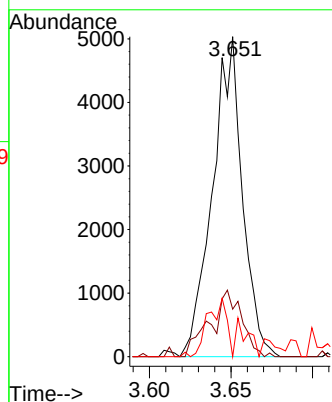
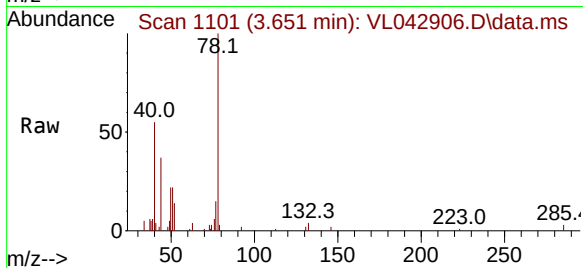




#36  
Benzene  
Concen: 0.187 ppbv  
RT: 3.651 min Scan# 1101  
Delta R.T. 0.006 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

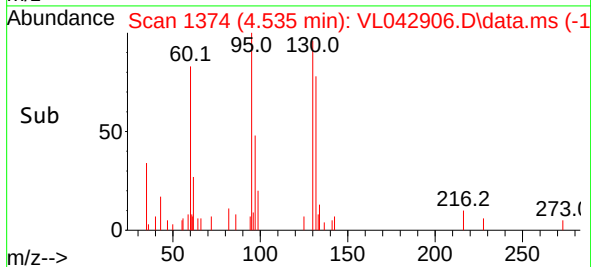
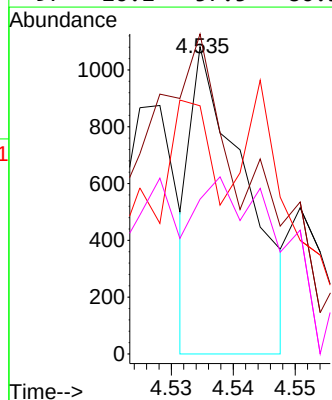
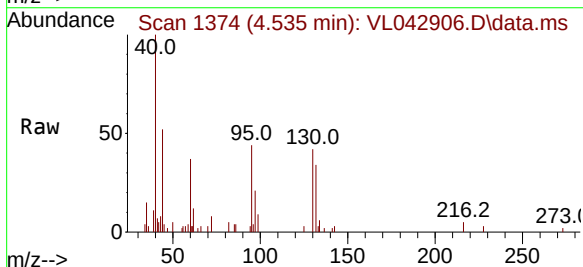
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

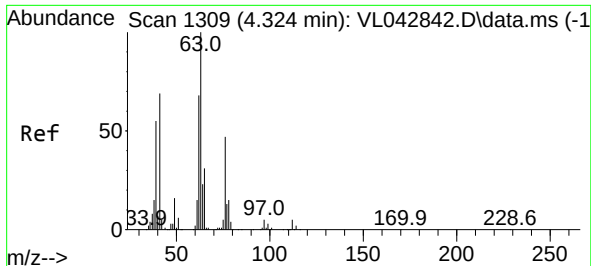
Tgt Ion: 78 Resp: 6417  
Ion Ratio Lower Upper  
78 100  
77 14.9 17.7 26.5#  
50 0.0 13.9 20.9#



#38  
Trichloroethene  
Concen: 0.042 ppbv  
RT: 4.535 min Scan# 1374  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion:130 Resp: 659  
Ion Ratio Lower Upper  
130 100  
95 95.0 87.6 131.4  
132 45.2 73.8 110.8#  
97 26.2 57.5 86.3#





#39

1,2-Dichloropropane

Concen: 7.566 ppbv

RT: 3.949 min Scan# 1193

Delta R.T. -0.350 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

Instrument :

MSVOA\_L

ClientSampleId :

SV-1

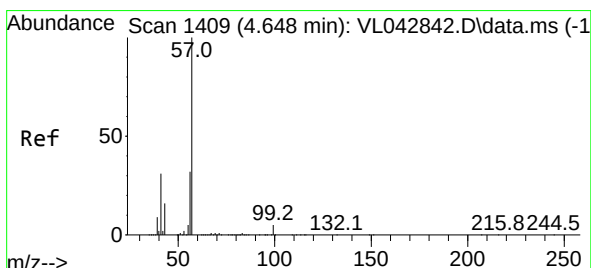
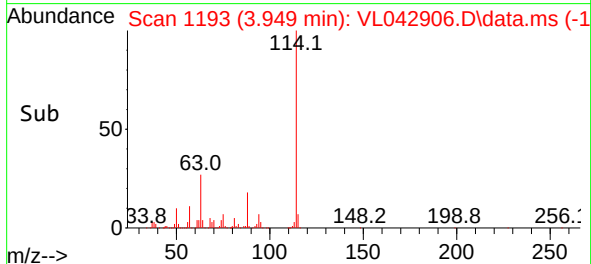
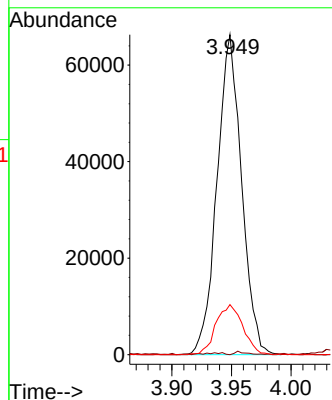
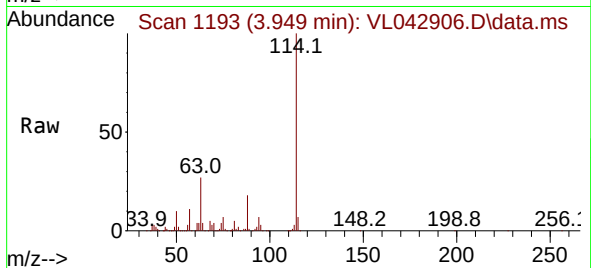
Tgt Ion: 63 Resp: 94790

Ion Ratio Lower Upper

63 100

41 0.0 55.0 82.4#

62 15.6 54.4 81.6#



#44

2,2,4-Trimethylpentane

Concen: 0.070 ppbv

RT: 4.632 min Scan# 1404

Delta R.T. 0.009 min

Lab File: VL042906.D

Acq: 08 Sep 2025 16:33

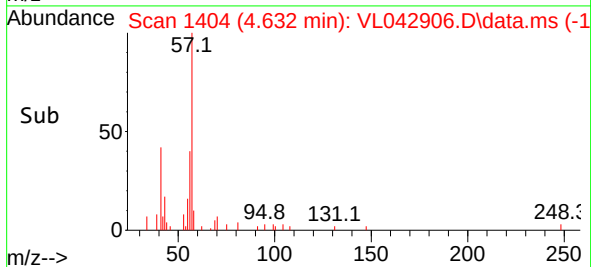
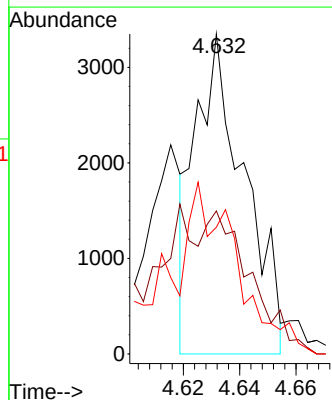
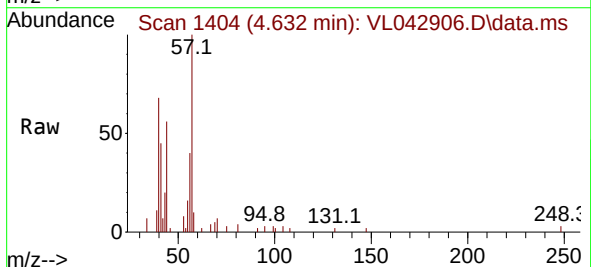
Tgt Ion: 57 Resp: 4054

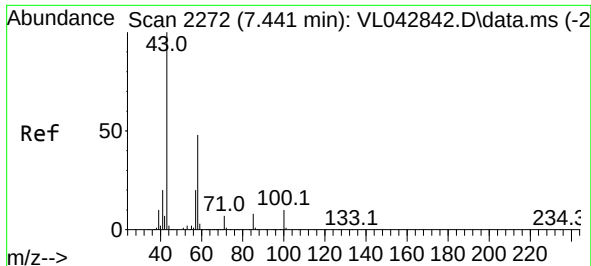
Ion Ratio Lower Upper

57 100

41 0.0 24.8 37.2#

56 87.4 25.5 38.3#

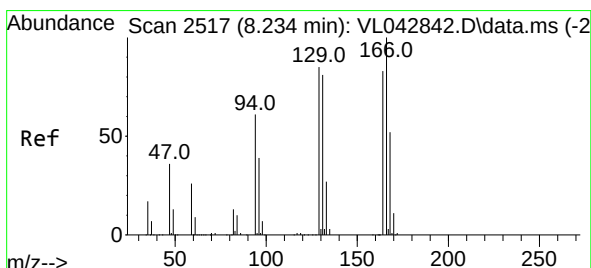
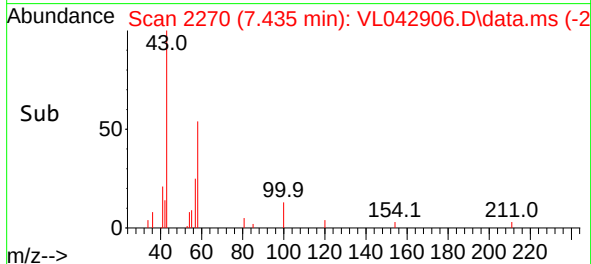
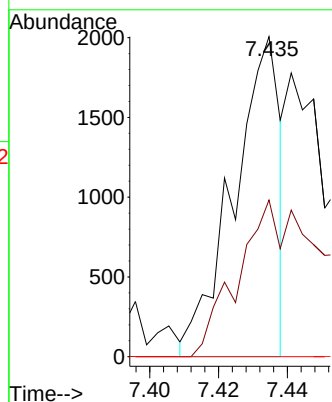
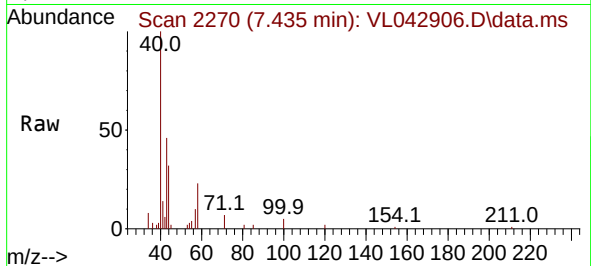




#51  
2-Hexanone  
Concen: 0.073 ppbv  
RT: 7.435 min Scan# 21  
Delta R.T. 0.016 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

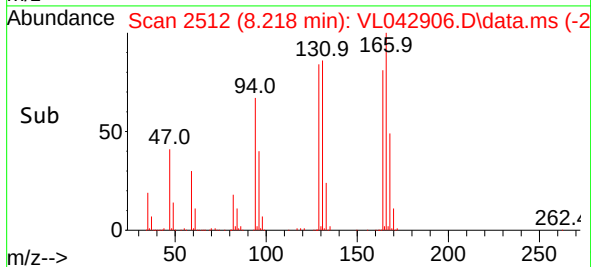
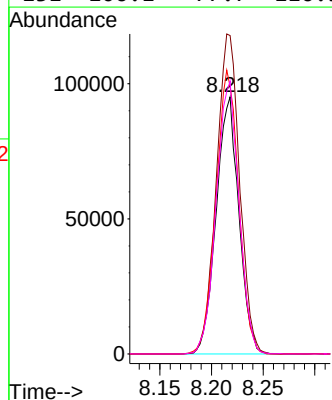
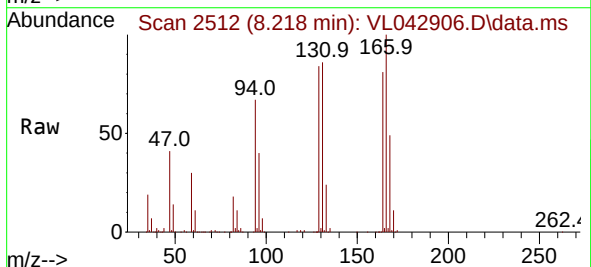
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

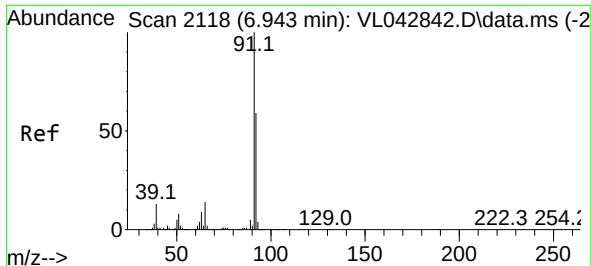
Tgt Ion: 43 Resp: 1883  
Ion Ratio Lower Upper  
43 100  
58 95.5 41.0 61.6#  
98 0.0 0.1 0.1#



#52  
Tetrachloroethene  
Concen: 11.711 ppbv  
RT: 8.218 min Scan# 2512  
Delta R.T. 0.006 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 164 Resp: 145329  
Ion Ratio Lower Upper  
164 100  
166 123.8 96.5 144.7  
129 103.9 81.8 122.6  
131 106.1 77.7 116.5

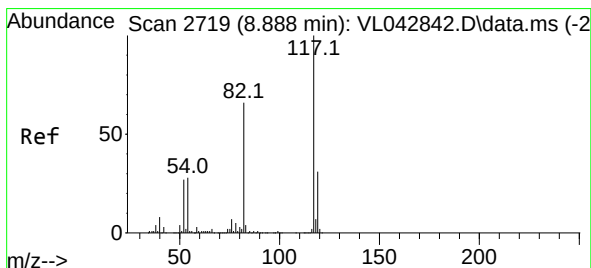
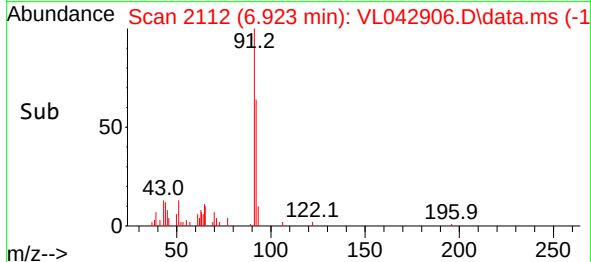
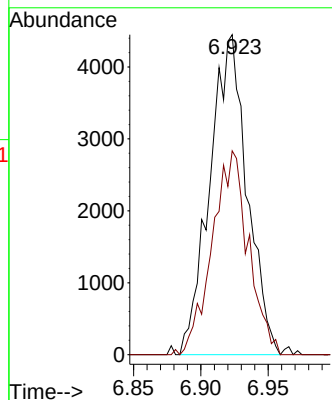
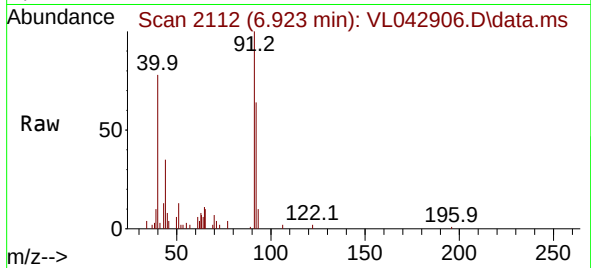




#53  
Toluene  
Concen: 0.211 ppbv  
RT: 6.923 min Scan# 2118  
Delta R.T. 0.009 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

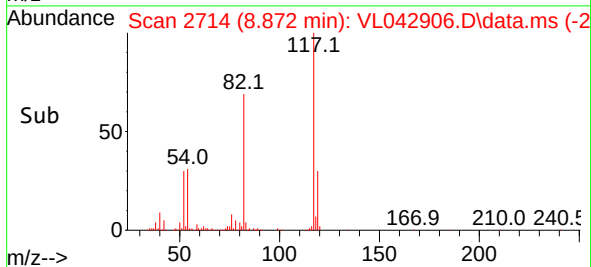
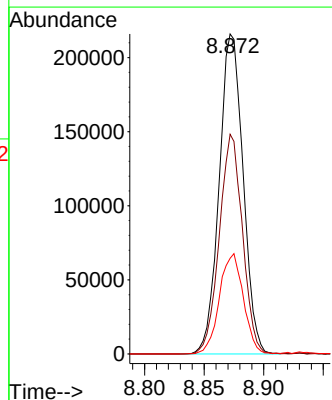
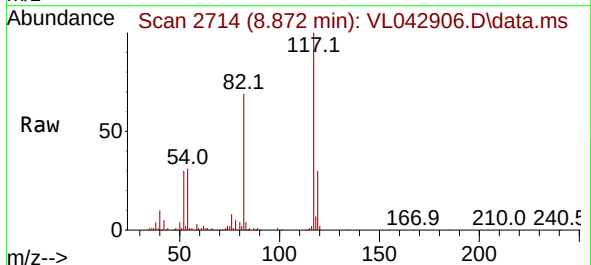
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

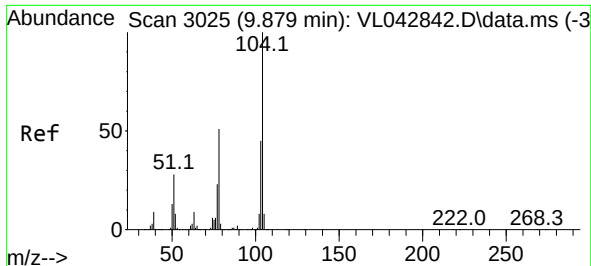
Tgt Ion: 91 Resp: 8585  
Ion Ratio Lower Upper  
91 100  
92 61.6 47.8 71.6



#55  
Chlorobenzene-d5  
Concen: 10.000 ppbv  
RT: 8.872 min Scan# 2714  
Delta R.T. 0.003 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 117 Resp: 300604  
Ion Ratio Lower Upper  
117 100  
82 66.8 54.6 81.8  
119 31.6 25.9 38.9

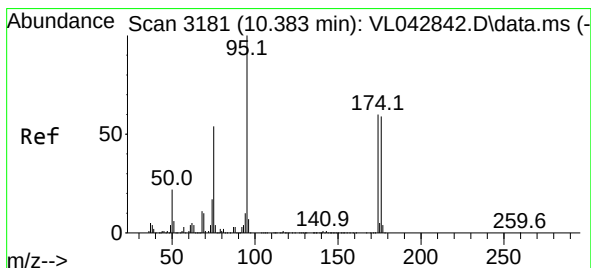
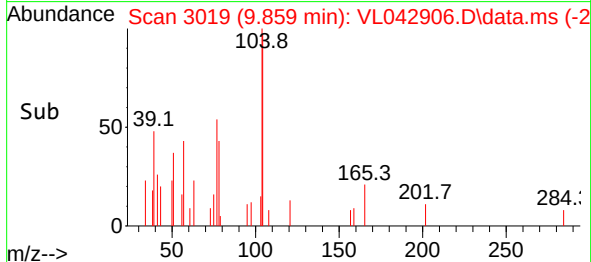
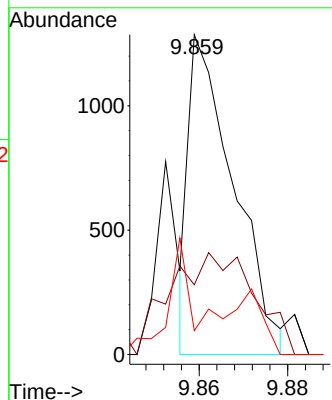
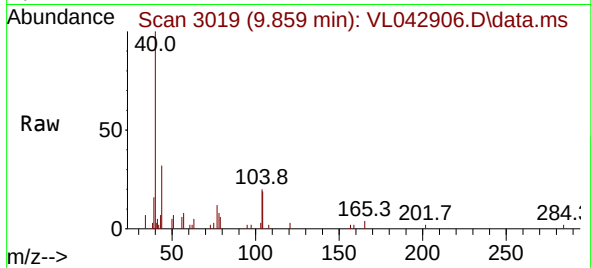




#61  
Styrene  
Concen: 0.046 ppbv  
RT: 9.859 min Scan# 3025  
Delta R.T. -0.000 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

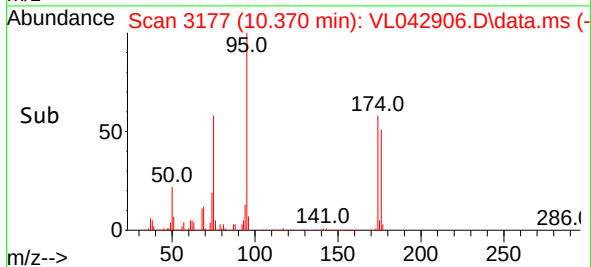
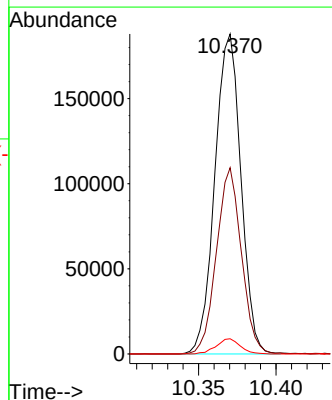
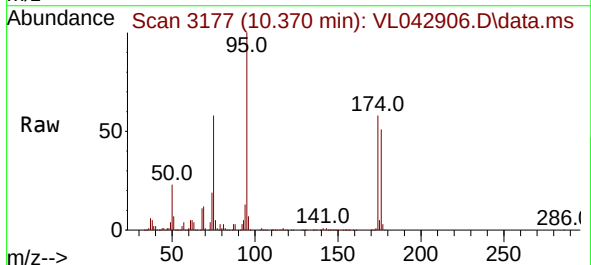
Instrument :  
MSVOA\_L  
ClientSampleId :  
SV-1

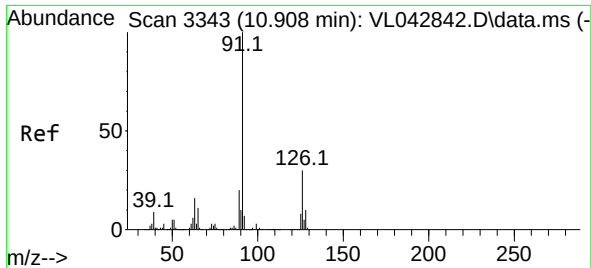
Tgt Ion:104 Resp: 907  
Ion Ratio Lower Upper  
104 100  
78 67.0 40.6 61.0#  
103 36.5 37.7 56.5#



#68  
1-Bromo-4-Fluorobenzene  
Concen: 9.765 ppbv  
RT: 10.370 min Scan# 3177  
Delta R.T. 0.006 min  
Lab File: VL042906.D  
Acq: 08 Sep 2025 16:33

Tgt Ion: 95 Resp: 220147  
Ion Ratio Lower Upper  
95 100  
174 55.8 48.4 72.6  
175 4.4 3.8 5.8





#71  
 2-Chlorotoluene  
 Concen: 3.250 ppbv  
 RT: 10.853 min Scan# 31  
 Delta R.T. -0.039 min  
 Lab File: VL042906.D  
 Acq: 08 Sep 2025 16:33

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 SV-1

Tgt Ion: 91 Resp: 154255  
 Ion Ratio Lower Upper  
 91 100  
 126 0.0 12.0 47.8#

