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

# DATA PACKAGE

## VOLATILE ORGANICS

**PROJECT NAME : CTO WE13**

**TETRA TECH NUS, INC.**

**661 Andersen Drive**

**Suite 200**

**Pittsburgh, PA - 15220-2745**

**Phone No: 412-921-7090**

**ORDER ID : P5316**

**ATTENTION : Ernie Wu**

**Laboratory Certification ID # 20012**

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# Cover Page

**Order ID :** P5316

**Project ID :** CTO WE13

**Client :** Tetra Tech NUS, Inc.

| Lab Sample Number | Client Sample Number |
|---|---|
| P5316-01 | TT-304-IDWSO-20241217-1 |
| P5316-02 | TT-304-IDWSO-20241217-2 |
| P5316-03 | TT-304-IDWSO-20241217-3 |
| P5316-04 | TT-304-IDWSO-20241217-4 |

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 : _____

**APPROVED**

Date: 12/30/2024

*By Mohammad Ahmed(Laboratory Manager) at 10:53 am, Jan 03, 2025*

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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# CASE NARRATIVE

**Tetra Tech NUS, Inc.**
**Project Name: CTO WE13**
**Project Manager : Ernie Wu**
**Chemtech Project # P5316**
**Test Name: VOCMS Group4**

**A. Number of Samples and Date of Receipt:**
4 Solid samples were received on 12/17/2024.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: Mercury, Metals Group1, Metals ICP-Group1, PCB Group1, PESTICIDE Group1, SVOCMS Group2 and VOCMS Group4. This data package contains results for VOCMS Group4.

**C. Analytical Techniques:**
The analysis performed on instrument MSVOA_Y were done using GC column Rxi-624SIL MS 30m, 0.25mm, 1.4 um, Cat. #13868.The analysis of VOCMS Group4 was based on method 8260D.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria except for
TT-304-IDWSO-20241217-4 [1,2-Dichloroethane-d4 - 70%, 4-Bromofluorobenzene - 43%] and
TT-304-IDWSO-20241217-4RE [4-Bromofluorobenzene - 71%], sample was reanalyzed to confirm the failure and reported.

The Internal Standards Areas met the acceptable requirements except for TT-304-IDWSO-20241217-4, sample was reanalyzed to confirm the failure and reported.

The Retention Times were acceptable for all samples.
The RPD met criteria .
The Blank Spike met requirements for all samples .
The Blank Spike Duplicate met requirements for all samples .
The Blank analysis did not indicate the presence of lab contamination.

The %RSD is greater than 20% in the Initial Calibration method (82Y121724S.M) for Acetone, Chloroform this compound is passing on Linear Regression.

The %RSD is greater than 20% in the Initial Calibration method (82Y122624S.M) for Toluene-d8 this compound is passing on Linear Regression.

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The Continuous Calibration met the requirements .
The Tuning criteria met requirements.

**E. Additional Comments:**
The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."

Fax and hard copy not match for sample 01,02,03 as fax reported from initial analysis where surrogate fail therefore as corrective action lab reanalyzed sample where all standard passing therefore hard copy reported from second analysis and fax data reported as screening Data in miscellaneous section.

Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.

Trip Blank was not provided with this set of samples.
The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**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

**APPROVED**
*By Mohammad Ahmed(Laboratory Manager) at 10:53 am, Jan 03, 2025*

284 Sheffield Street, Mountainside NJ 07092 Tel. 908-789-8900 Fax: 908-789-8922

# 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 |
| **U** | 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. |
| **ND** | Indicates the analyte was analyzed for, but not detected |
| **J** | Indicates an estimated value. This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(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 is flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| **B** | Indicates the analyte was found in the blank as well as the sample report as "12 B". |
| **E** | Indicates the analyte 's concentration exceeds the calibrated range of the instrument for that specific analysis. |
| **D** | This flag identifies all compounds identified in an analysis at a secondary dilution factor. |
| **P** | 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". |
| **N** | 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. |
| **A** | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product. |
| **Q** | Indicates the LCS did not meet the control limits requirements |

# ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

## GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY

CHEMTECH PROJECT NUMBER: P5316 MATRIX: Solid

METHOD: 8260D

| | | NA | NO | YES |
|---|---|---|---|---|
| 1. | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks) | | | ✓ |
| 2. | GC/MS Tuning Specifications<br>BFB Meet Criteria (NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP, CLP AND NJ) | | | ✓ |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for 8000 Series. | | | ✓ |
| 4. | GC/MS Calibration - Initial Calibration performed before sample analysis and continuing calibration performed within 24 hours of sample analysis for 600 series and 12 hours for 8000 series. | | | ✓ |
| 5. | GC/MS Calibration Requirements.<br>The %RSD is greater than 20% in the Initial Calibration method (82Y121724S.M) for Acetone, Chloroform this compound is passing on Linear Regression.<br>The %RSD is greater than 20% in the Initial Calibration method (82Y122624S.M) for Toluene-d8 this compound is passing on Linear Regression.<br>The Continuous Calibration met the requirements . | | | ✓ |
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 7. | Surrogate Recoveries Meet Criteria<br>If not met, list those compounds and their recoveries which fall outside the acceptable ranges.<br>The Surrogate recoveries met the acceptable criteria except for TT-304-IDWSO-20241217-4 [1,2-Dichloroethane-d4 - 70%, 4-Bromofluorobenzene - 43%] and TT-304-IDWSO-20241217-4RE [4-Bromofluorobenzene - 71%], sample was reanalyzed to confirm the failure and reported. | | ✓ | |
| 8. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br>If not met, list those compounds and their recoveries which fall outside the acceptable range. | | | ✓ |
| 9. | Internal Standard Area/Retention Time Shift Meet Criteria<br>Comments: The Internal Standards Areas met the acceptable requirements except for TT-304-IDWSO-20241217-4, sample was reanalyzed to confirm the failure and reported. | | ✓ | |

## GC/MS VOA CONFORMANCE/NON-CONFORMANCE SUMMARY (CONTINUED)

| | | NA | NO | YES |
|---|---|---|---|---|
| 10. | Analysis Holding Time Met | | | ✓ |
| | If not met, list number of days exceeded for each sample: | | | |

ADDITIONAL COMMENTS:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."
Samples for MS/MSD for VOC analysis were not provided with this set of samples. The Blank Spike Duplicate is reported with the data.
Fax and hard copy not match for sample 01,02,03 as fax reported from initial analysis where surrogate fail therefore as corrective action lab reanalyzed sample where all standard passing therefore hard copy reported from second analysis and fax data reported as screening Data in miscellaneous section.

Trip Blank was not provided with this set of samples.
The not QT review data is reported in the Miscellaneous.
The soil samples results are based on a dry weight basis.

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**APPROVED**
*By Mohammad Ahmed(Laboratory Manager) at 10:53 am, Jan 03, 2025*

QA REVIEW — 01/03/2025 Date

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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## APPENDIX A

## QA REVIEW GENERAL DOCUMENTATION

**Project #:** P5316

| | 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 Castody** | ✓ |
| **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:** MOHAMMAD AHMED **Date:** 01/03/2025

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | P5316 | **OrderDate:** | 12/17/2024 3:44:00 PM |
| **Client:** | Tetra Tech NUS, Inc. | **Project:** | CTO WE13 |
| **Contact:** | Ernie Wu | **Location:** | L51,VOA Ref. #2 Soil |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **P5316-01** | **TT-304-IDWSO-20241217-1** | **SOIL** | | | **12/17/24** | | | **12/17/24** |
| | | | VOCMS Group4 | 8260D | | | 12/26/24 | |
| **P5316-02** | **TT-304-IDWSO-20241217-2** | **SOIL** | | | **12/17/24** | | | **12/17/24** |
| | | | VOCMS Group4 | 8260D | | | 12/26/24 | |
| **P5316-03** | **TT-304-IDWSO-20241217-3** | **SOIL** | | | **12/17/24** | | | **12/17/24** |
| | | | VOCMS Group4 | 8260D | | | 12/26/24 | |
| **P5316-04** | **TT-304-IDWSO-20241217-4** | **SOIL** | | | **12/17/24** | | | **12/17/24** |
| | | | VOCMS Group4 | 8260D | | | 12/20/24 | |
| **P5316-04RE** | **TT-304-IDWSO-20241217-4RE** | **SOIL** | | | **12/17/24** | | | **12/17/24** |
| | | | VOCMS Group4 | 8260D | | | 12/20/24 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** P5316

**Client:** Tetra Tech NUS, Inc.

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **TT-304-IDWSO-20241217-2** | | | | | | | | |
| P5316-02 | TT-304-IDWSO-20 | SOIL | Acetone | 22.8 | J | 6.80 | 21.7 | 27.1 | ug/Kg |
| P5316-02 | TT-304-IDWSO-20 | SOIL | Methylene Chloride | 14.3 | | 3.70 | 8.70 | 10.8 | ug/Kg |
| | | | **Total Voc :** | 37.1 | | | | | |
| | | | **Total Concentration:** | 37.1 | | | | | |

# QC SUMMARY

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## Surrogate Summary

**SDG No.:** P5316

**Client:** Tetra Tech NUS, Inc.

**Analytical Method:** SW8260D

| Lab Sample ID | Client ID | Parameter | Spike | Result | Recovery | Qual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|---|
| P5316-01 | TT-304-IDWSO-20241217-1 | 1,2-Dichloroethane-d4 | 50 | 58.5 | 117 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 55.2 | 110 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.6 | 105 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 46.7 | 93 | | 79 | 119 |
| P5316-02 | TT-304-IDWSO-20241217-2 | 1,2-Dichloroethane-d4 | 50 | 58.7 | 117 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 55.8 | 112 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.4 | 105 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 48.0 | 96 | | 79 | 119 |
| P5316-03 | TT-304-IDWSO-20241217-3 | 1,2-Dichloroethane-d4 | 50 | 55.9 | 112 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 54.7 | 109 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.6 | 105 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 49.2 | 98 | | 79 | 119 |
| P5316-04 | TT-304-IDWSO-20241217-4 | 1,2-Dichloroethane-d4 | 50 | 34.9 | 70 | * | 71 | 136 |
| | | Dibromofluoromethane | 50 | 42.9 | 86 | | 78 | 119 |
| | | Toluene-d8 | 50 | 45.2 | 90 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 21.7 | 43 | * | 79 | 119 |
| P5316-04RE | TT-304-IDWSO-20241217-4RE | 1,2-Dichloroethane-d4 | 50 | 50.8 | 102 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 45.9 | 92 | | 78 | 119 |
| | | Toluene-d8 | 50 | 48.7 | 97 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 35.3 | 71 | * | 79 | 119 |
| VY1220SBL01 | VY1220SBL01 | 1,2-Dichloroethane-d4 | 50 | 49.0 | 98 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 50.7 | 101 | | 78 | 119 |
| | | Toluene-d8 | 50 | 49.8 | 100 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 44.5 | 89 | | 79 | 119 |
| VY1220SBS01 | VY1220SBS01 | 1,2-Dichloroethane-d4 | 50 | 43.1 | 86 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 46.1 | 92 | | 78 | 119 |
| | | Toluene-d8 | 50 | 46.6 | 93 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 44.2 | 88 | | 79 | 119 |
| VY1226SBL01 | VY1226SBL01 | 1,2-Dichloroethane-d4 | 50 | 64.7 | 129 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 57.6 | 115 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.6 | 105 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 51.0 | 102 | | 79 | 119 |
| VY1226SBS01 | VY1226SBS01 | 1,2-Dichloroethane-d4 | 50 | 55.0 | 110 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 52.1 | 104 | | 78 | 119 |
| | | Toluene-d8 | 50 | 50.6 | 101 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 51.8 | 104 | | 79 | 119 |
| VY1226SBSD01 | VY1226SBSD01 | 1,2-Dichloroethane-d4 | 50 | 57.3 | 115 | | 71 | 136 |
| | | Dibromofluoromethane | 50 | 53.1 | 106 | | 78 | 119 |
| | | Toluene-d8 | 50 | 52.1 | 104 | | 85 | 116 |
| | | 4-Bromofluorobenzene | 50 | 52.9 | 106 | | 79 | 119 |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P5316

**Client:** Tetra Tech NUS, Inc.

**Analytical Method:** SW8260D **Datafile :** VY020666.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1220SBS01 | Vinyl chloride | 20 | 15.8 | ug/Kg | 79 | | | 56 | 135 | |
| | 1,1-Dichloroethene | 20 | 16.1 | ug/Kg | 81 | | | 70 | 131 | |
| | Acetone | 100 | 63.0 | ug/Kg | 63 | | | 36 | 164 | |
| | Methyl tert-butyl Ether | 20 | 19.9 | ug/Kg | 100 | | | 73 | 125 | |
| | Methylene Chloride | 20 | 17.7 | ug/Kg | 89 | | | 70 | 128 | |
| | trans-1,2-Dichloroethene | 20 | 21.5 | ug/Kg | 108 | | | 74 | 125 | |
| | 1,1-Dichloroethane | 20 | 21.4 | ug/Kg | 107 | | | 76 | 125 | |
| | 2-Butanone | 100 | 91.7 | ug/Kg | 92 | | | 51 | 148 | |
| | Carbon Tetrachloride | 20 | 22.4 | ug/Kg | 112 | | | 70 | 135 | |
| | cis-1,2-Dichloroethene | 20 | 20.9 | ug/Kg | 104 | | | 77 | 123 | |
| | Chloroform | 20 | 19.1 | ug/Kg | 96 | | | 78 | 123 | |
| | 1,1,1-Trichloroethane | 20 | 21.7 | ug/Kg | 109 | | | 73 | 130 | |
| | Benzene | 20 | 22.1 | ug/Kg | 111 | | | 77 | 121 | |
| | 1,2-Dichloroethane | 20 | 21.0 | ug/Kg | 105 | | | 73 | 128 | |
| | Trichloroethene | 20 | 21.9 | ug/Kg | 110 | | | 77 | 123 | |
| | Toluene | 20 | 22.1 | ug/Kg | 111 | | | 77 | 121 | |
| | Tetrachloroethene | 20 | 21.9 | ug/Kg | 110 | | | 73 | 128 | |
| | Chlorobenzene | 20 | 22.3 | ug/Kg | 112 | | | 79 | 120 | |
| | Ethyl Benzene | 20 | 22.2 | ug/Kg | 111 | | | 76 | 122 | |
| | m/p-Xylenes | 40 | 44.7 | ug/Kg | 112 | | | 77 | 124 | |
| | o-Xylene | 20 | 22.2 | ug/Kg | 111 | | | 77 | 123 | |
| | N-propylbenzene | 20 | 22.0 | ug/Kg | 110 | | | 73 | 125 | |
| | tert-Butylbenzene | 20 | 20.9 | ug/Kg | 104 | | | 73 | 125 | |
| | 1,2,4-Trimethylbenzene | 20 | 24.5 | ug/Kg | 123 | | | 75 | 123 | |
| | Sec-butylbenzene | 20 | 21.8 | ug/Kg | 109 | | | 73 | 126 | |
| | 1,3-Dichlorobenzene | 20 | 21.6 | ug/Kg | 108 | | | 77 | 121 | |
| | 1,4-Dichlorobenzene | 20 | 21.6 | ug/Kg | 108 | | | 75 | 120 | |
| | n-Butylbenzene | 20 | 22.3 | ug/Kg | 112 | | | 70 | 128 | |
| | 1,2-Dichlorobenzene | 20 | 21.5 | ug/Kg | 108 | | | 78 | 121 | |
| | 1,4-Dioxane | 400 | 370 | ug/Kg | 93 | | | 55 | 138 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P5316

**Client:** Tetra Tech NUS, Inc.

**Analytical Method:** SW8260D **Datafile :** VY020715.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1226SBS01 | Vinyl chloride | 20 | 17.7 | ug/Kg | 89 | | | 56 | 135 | |
| | 1,1-Dichloroethene | 20 | 19.1 | ug/Kg | 96 | | | 70 | 131 | |
| | Acetone | 100 | 94.4 | ug/Kg | 94 | | | 36 | 164 | |
| | Methyl tert-butyl Ether | 20 | 19.6 | ug/Kg | 98 | | | 73 | 125 | |
| | Methylene Chloride | 20 | 20.7 | ug/Kg | 104 | | | 70 | 128 | |
| | trans-1,2-Dichloroethene | 20 | 19.0 | ug/Kg | 95 | | | 74 | 125 | |
| | 1,1-Dichloroethane | 20 | 19.7 | ug/Kg | 99 | | | 76 | 125 | |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | | | 51 | 148 | |
| | Carbon Tetrachloride | 20 | 19.7 | ug/Kg | 99 | | | 70 | 135 | |
| | cis-1,2-Dichloroethene | 20 | 19.3 | ug/Kg | 97 | | | 77 | 123 | |
| | Chloroform | 20 | 20.1 | ug/Kg | 101 | | | 78 | 123 | |
| | 1,1,1-Trichloroethane | 20 | 19.4 | ug/Kg | 97 | | | 73 | 130 | |
| | Benzene | 20 | 20.0 | ug/Kg | 100 | | | 77 | 121 | |
| | 1,2-Dichloroethane | 20 | 20.4 | ug/Kg | 102 | | | 73 | 128 | |
| | Trichloroethene | 20 | 19.4 | ug/Kg | 97 | | | 77 | 123 | |
| | Toluene | 20 | 20.3 | ug/Kg | 102 | | | 77 | 121 | |
| | Tetrachloroethene | 20 | 20.9 | ug/Kg | 104 | | | 73 | 128 | |
| | Chlorobenzene | 20 | 19.8 | ug/Kg | 99 | | | 79 | 120 | |
| | Ethyl Benzene | 20 | 20.2 | ug/Kg | 101 | | | 76 | 122 | |
| | m/p-Xylenes | 40 | 41.6 | ug/Kg | 104 | | | 77 | 124 | |
| | o-Xylene | 20 | 20.7 | ug/Kg | 104 | | | 77 | 123 | |
| | N-propylbenzene | 20 | 20.0 | ug/Kg | 100 | | | 73 | 125 | |
| | tert-Butylbenzene | 20 | 19.8 | ug/Kg | 99 | | | 73 | 125 | |
| | 1,2,4-Trimethylbenzene | 20 | 20.0 | ug/Kg | 100 | | | 75 | 123 | |
| | Sec-butylbenzene | 20 | 20.0 | ug/Kg | 100 | | | 73 | 126 | |
| | 1,3-Dichlorobenzene | 20 | 19.7 | ug/Kg | 99 | | | 77 | 121 | |
| | 1,4-Dichlorobenzene | 20 | 19.9 | ug/Kg | 100 | | | 75 | 120 | |
| | n-Butylbenzene | 20 | 19.9 | ug/Kg | 100 | | | 70 | 128 | |
| | 1,2-Dichlorobenzene | 20 | 20.3 | ug/Kg | 102 | | | 78 | 121 | |
| | 1,4-Dioxane | 400 | 450 | ug/Kg | 113 | | | 55 | 138 | |

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## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

**SW-846**

**SDG No.:** P5316

**Client:** Tetra Tech NUS, Inc.

**Analytical Method:** SW8260D **Datafile :** VY020716.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VY1226SBSD01 | Vinyl chloride | 20 | 18.1 | ug/Kg | 91 | 2 | | 56 | 135 | 20 |
| | 1,1-Dichloroethene | 20 | 18.9 | ug/Kg | 95 | 1 | | 70 | 131 | 20 |
| | Acetone | 100 | 99.3 | ug/Kg | 99 | 5 | | 36 | 164 | 20 |
| | Methyl tert-butyl Ether | 20 | 20.6 | ug/Kg | 103 | 5 | | 73 | 125 | 20 |
| | Methylene Chloride | 20 | 19.7 | ug/Kg | 99 | 5 | | 70 | 128 | 20 |
| | trans-1,2-Dichloroethene | 20 | 19.3 | ug/Kg | 97 | 2 | | 74 | 125 | 20 |
| | 1,1-Dichloroethane | 20 | 20.0 | ug/Kg | 100 | 1 | | 76 | 125 | 20 |
| | 2-Butanone | 100 | 110 | ug/Kg | 110 | 0 | | 51 | 148 | 20 |
| | Carbon Tetrachloride | 20 | 19.0 | ug/Kg | 95 | 4 | | 70 | 135 | 20 |
| | cis-1,2-Dichloroethene | 20 | 19.7 | ug/Kg | 99 | 2 | | 77 | 123 | 20 |
| | Chloroform | 20 | 19.9 | ug/Kg | 100 | 1 | | 78 | 123 | 20 |
| | 1,1,1-Trichloroethane | 20 | 19.5 | ug/Kg | 98 | 1 | | 73 | 130 | 20 |
| | Benzene | 20 | 19.4 | ug/Kg | 97 | 3 | | 77 | 121 | 20 |
| | 1,2-Dichloroethane | 20 | 19.5 | ug/Kg | 98 | 4 | | 73 | 128 | 20 |
| | Trichloroethene | 20 | 19.6 | ug/Kg | 98 | 1 | | 77 | 123 | 20 |
| | Toluene | 20 | 19.7 | ug/Kg | 99 | 3 | | 77 | 121 | 20 |
| | Tetrachloroethene | 20 | 19.4 | ug/Kg | 97 | 7 | | 73 | 128 | 20 |
| | Chlorobenzene | 20 | 20.1 | ug/Kg | 101 | 2 | | 79 | 120 | 20 |
| | Ethyl Benzene | 20 | 19.7 | ug/Kg | 99 | 2 | | 76 | 122 | 20 |
| | m/p-Xylenes | 40 | 40.0 | ug/Kg | 100 | 4 | | 77 | 124 | 20 |
| | o-Xylene | 20 | 19.5 | ug/Kg | 98 | 6 | | 77 | 123 | 20 |
| | N-propylbenzene | 20 | 19.4 | ug/Kg | 97 | 3 | | 73 | 125 | 20 |
| | tert-Butylbenzene | 20 | 19.7 | ug/Kg | 99 | 0 | | 73 | 125 | 20 |
| | 1,2,4-Trimethylbenzene | 20 | 19.7 | ug/Kg | 99 | 1 | | 75 | 123 | 20 |
| | Sec-butylbenzene | 20 | 19.5 | ug/Kg | 98 | 2 | | 73 | 126 | 20 |
| | 1,3-Dichlorobenzene | 20 | 19.8 | ug/Kg | 99 | 0 | | 77 | 121 | 20 |
| | 1,4-Dichlorobenzene | 20 | 19.4 | ug/Kg | 97 | 3 | | 75 | 120 | 20 |
| | n-Butylbenzene | 20 | 19.5 | ug/Kg | 98 | 2 | | 70 | 128 | 20 |
| | 1,2-Dichlorobenzene | 20 | 20.0 | ug/Kg | 100 | 2 | | 78 | 121 | 20 |
| | 1,4-Dioxane | 400 | 460 | ug/Kg | 115 | 2 | | 55 | 138 | 20 |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1220SBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020665.D Lab Sample ID: VY1220SBL01

Date Analyzed: 12/20/2024 Time Analyzed: 11:24

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY1220SBS01 | VY1220SBS01 | VY020666.D | 12/20/2024 |
| TT-304-IDWSO-20241217-4 | P5316-04 | VY020672.D | 12/20/2024 |
| TT-304-IDWSO-20241217-4RE | P5316-04RE | VY020675.D | 12/20/2024 |

COMMENTS:

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VY1226SBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020714.D Lab Sample ID: VY1226SBL01

Date Analyzed: 12/26/2024 Time Analyzed: 13:56

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Instrument ID: MSVOA_Y

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VY1226SBS01 | VY1226SBS01 | VY020715.D | 12/26/2024 |
| VY1226SBSD01 | VY1226SBSD01 | VY020716.D | 12/26/2024 |
| TT-304-IDWSO-20241217-1 | P5316-01 | VY020718.D | 12/26/2024 |
| TT-304-IDWSO-20241217-2 | P5316-02 | VY020720.D | 12/26/2024 |
| TT-304-IDWSO-20241217-3 | P5316-03 | VY020722.D | 12/26/2024 |

COMMENTS:

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

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020611.D BFB Injection Date: 12/17/2024

Instrument ID: MSVOA_Y BFB Injection Time: 09:00

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.8 |
| 75 | 30.0 - 60.0% of mass 95 | 52.6 |
| 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 | 1 ( 1.3 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 77.1 |
| 175 | 5.0 - 9.0% of mass 174 | 6.2 ( 8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 74.2 ( 96.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.8 ( 6.5 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC010 | VSTDICC010 | VY020613.D | 12/17/2024 | 10:01 |
| VSTDICC020 | VSTDICC020 | VY020614.D | 12/17/2024 | 10:23 |
| VSTDICCC050 | VSTDICCC050 | VY020615.D | 12/17/2024 | 10:51 |
| VSTDICC100 | VSTDICC100 | VY020616.D | 12/17/2024 | 11:14 |
| VSTDICC150 | VSTDICC150 | VY020617.D | 12/17/2024 | 11:37 |
| VSTDICC005 | VSTDICC005 | VY020619.D | 12/17/2024 | 14:51 |

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

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020663.D BFB Injection Date: 12/20/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:37

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 20.3 |
| 75 | 30.0 - 60.0% of mass 95 | 50.6 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.3 |
| 173 | Less than 2.0% of mass 174 | 0.9 ( 1.1 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 85.2 |
| 175 | 5.0 - 9.0% of mass 174 | 6.8 ( 8 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 81.8 ( 96 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 5.5 ( 6.7 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDCCC050 | VSTDCCC050 | VY020664.D | 12/20/2024 | 09:09 |
| VY1220SBL01 | VY1220SBL01 | VY020665.D | 12/20/2024 | 11:24 |
| VY1220SBS01 | VY1220SBS01 | VY020666.D | 12/20/2024 | 13:12 |
| TT-304-IDWSO-20241217-4 | P5316-04 | VY020672.D | 12/20/2024 | 15:44 |
| TT-304-IDWSO-20241217-4RE | P5316-04RE | VY020675.D | 12/20/2024 | 16:52 |
| VSTDCCC050EC | VSTDCCC050 | VY020682.D | 12/20/2024 | 19:35 |

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

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020705.D BFB Injection Date: 12/26/2024

Instrument ID: MSVOA_Y BFB Injection Time: 08:29

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: Y/N Y

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 17.9 |
| 75 | 30.0 - 60.0% of mass 95 | 56.5 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.7 |
| 173 | Less than 2.0% of mass 174 | 0.0 ( 0.0 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 88.9 |
| 175 | 5.0 - 9.0% of mass 174 | 4.7 ( 5.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 85.2 ( 95.8 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 6 ( 7 ) 2 |

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

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED | TIME ANALYZED |
|---|---|---|---|---|
| VSTDICC005 | VSTDICC005 | VY020706.D | 12/26/2024 | 09:31 |
| VSTDICC010 | VSTDICC010 | VY020707.D | 12/26/2024 | 09:53 |
| VSTDICC020 | VSTDICC020 | VY020708.D | 12/26/2024 | 10:16 |
| VSTDICCC050 | VSTDICCC050 | VY020709.D | 12/26/2024 | 10:39 |
| VSTDICC150 | VSTDICC150 | VY020710.D | 12/26/2024 | 11:01 |
| VSTDICC100 | VSTDICC100 | VY020711.D | 12/26/2024 | 11:51 |
| VY1226SBL01 | VY1226SBL01 | VY020714.D | 12/26/2024 | 13:56 |
| VY1226SBS01 | VY1226SBS01 | VY020715.D | 12/26/2024 | 14:32 |
| VY1226SBSD01 | VY1226SBSD01 | VY020716.D | 12/26/2024 | 14:54 |
| TT-304-IDWSO-20241217-1 | P5316-01 | VY020718.D | 12/26/2024 | 15:41 |
| TT-304-IDWSO-20241217-2 | P5316-02 | VY020720.D | 12/26/2024 | 16:28 |
| TT-304-IDWSO-20241217-3 | P5316-03 | VY020722.D | 12/26/2024 | 17:15 |
| VSTDCCC050EC | VSTDCCC050 | VY020728.D | 12/26/2024 | 19:34 |

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020664.D Date Analyzed: 12/20/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:09

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 162547 | 7.71 | 240673 | 8.62 | 212145 | 11.42 |
| UPPER LIMIT | 325094 | 8.213 | 481346 | 9.116 | 424290 | 11.92 |
| LOWER LIMIT | 81273.5 | 7.213 | 120337 | 8.116 | 106073 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| TT-304-IDWSO-20241217-4 | 21219 * | 7.71 | 29944 * | 8.62 | 18784 * | 11.41 |
| TT-304-IDWSO-20241217-4RE | 164449 | 7.71 | 291183 | 8.62 | 241631 | 11.41 |
| VY1220SBL01 | 159056 | 7.71 | 246351 | 8.62 | 208495 | 11.41 |
| VY1220SBS01 | 157442 | 7.71 | 237485 | 8.62 | 207752 | 11.42 |

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

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020664.D Date Analyzed: 12/20/2024

Instrument ID: MSVOA_Y Time Analyzed: 09:09

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | | RT # | | | | |
|---|---|---|---|---|---|---|---|
| 12 HOUR STD | 119359 | | 13.353 | | | | |
| UPPER LIMIT | 238718 | | 13.853 | | | | |
| LOWER LIMIT | 59679.5 | | 12.853 | | | | |
| EPA SAMPLE NO. | | | | | | | |
| TT-304-IDWSO-20241217-4 | 4327 | * | 13.35 | | | | |
| TT-304-IDWSO-20241217-4RE | 90485 | | 13.35 | | | | |
| VY1220SBL01 | 109647 | | 13.35 | | | | |
| VY1220SBS01 | 116933 | | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020709.D Date Analyzed: 12/26/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:39

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 95919 | 7.72 | 134605 | 8.62 | 116249 | 11.42 |
| UPPER LIMIT | 191838 | 8.22 | 269210 | 9.122 | 232498 | 11.92 |
| LOWER LIMIT | 47959.5 | 7.22 | 67302.5 | 8.122 | 58124.5 | 10.92 |
| EPA SAMPLE NO. | | | | | | |
| TT-304-IDWSO-20241217-1 | 93149 | 7.71 | 143334 | 8.62 | 120055 | 11.42 |
| TT-304-IDWSO-20241217-2 | 90592 | 7.71 | 140817 | 8.62 | 117470 | 11.42 |
| TT-304-IDWSO-20241217-3 | 95048 | 7.71 | 149227 | 8.62 | 128468 | 11.42 |
| VY1226SBL01 | 99549 | 7.72 | 157271 | 8.62 | 133794 | 11.42 |
| VY1226SBS01 | 120044 | 7.72 | 165739 | 8.62 | 139363 | 11.42 |
| VY1226SBSD01 | 115773 | 7.71 | 164224 | 8.62 | 140702 | 11.42 |

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

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

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## VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG NO.: P5316

Lab File ID: VY020709.D Date Analyzed: 12/26/2024

Instrument ID: MSVOA_Y Time Analyzed: 10:39

GC Column: RXI-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 60351 | 13.353 | | | | |
| UPPER LIMIT | 120702 | 13.853 | | | | |
| LOWER LIMIT | 30175.5 | 12.853 | | | | |
| EPA SAMPLE NO. | | | | | | |
| TT-304-IDWSO-20241217-1 | 47762 | 13.35 | | | | |
| TT-304-IDWSO-20241217-2 | 47280 | 13.35 | | | | |
| TT-304-IDWSO-20241217-3 | 55512 | 13.35 | | | | |
| VY1226SBL01 | 56315 | 13.35 | | | | |
| VY1226SBS01 | 74040 | 13.35 | | | | |
| VY1226SBSD01 | 73666 | 13.35 | | | | |

IS4 = 1,4-Dichlorobenzene-d4

AREA UPPER LIMIT = +100% of internal standard area
AREA LOWER LIMIT = -50% of internal standard area
RT UPPER LIMIT = +0.50 minutes of internal standard RT
RT LOWER LIMIT = -0.50 minutes of internal standard RT

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

# SAMPLE DATA

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 12/17/24 |
| Project: | CTO WE13 | Date Received: | 12/17/24 |
| Client Sample ID: | TT-304-IDWSO-20241217-1 | SDG No.: | P5316 |
| Lab Sample ID: | P5316-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 68.6 |
| Sample Wt/Vol: | 5.77 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020718.D | 1 | | 12/26/24 15:41 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-01-4 | Vinyl Chloride | 3.20 | U | 0.97 | 3.20 | 6.30 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 3.20 | U | 0.99 | 3.20 | 6.30 | ug/Kg |
| 67-64-1 | Acetone | 25.3 | U | 7.90 | 25.3 | 31.6 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 3.20 | U | 0.85 | 3.20 | 6.30 | ug/Kg |
| 75-09-2 | Methylene Chloride | 10.1 | U | 4.30 | 10.1 | 12.6 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 3.20 | U | 1.10 | 3.20 | 6.30 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 3.20 | U | 0.80 | 3.20 | 6.30 | ug/Kg |
| 78-93-3 | 2-Butanone | 25.3 | U | 7.20 | 25.3 | 31.6 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 3.20 | U | 1.10 | 3.20 | 6.30 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 3.20 | U | 0.77 | 3.20 | 6.30 | ug/Kg |
| 67-66-3 | Chloroform | 5.10 | U | 0.85 | 5.10 | 6.30 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 3.20 | U | 0.99 | 3.20 | 6.30 | ug/Kg |
| 71-43-2 | Benzene | 3.20 | U | 0.91 | 3.20 | 6.30 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 3.20 | U | 0.77 | 3.20 | 6.30 | ug/Kg |
| 79-01-6 | Trichloroethene | 3.20 | U | 0.95 | 3.20 | 6.30 | ug/Kg |
| 108-88-3 | Toluene | 3.20 | U | 0.85 | 3.20 | 6.30 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 3.20 | U | 1.10 | 3.20 | 6.30 | ug/Kg |
| 108-90-7 | Chlorobenzene | 3.20 | U | 0.93 | 3.20 | 6.30 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 3.20 | U | 0.78 | 3.20 | 6.30 | ug/Kg |
| 1330-20-7 | Total Xylenes | 9.50 | U | 2.58 | 9.50 | 18.9 | ug/Kg |
| 103-65-1 | n-propylbenzene | 3.20 | U | 0.81 | 3.20 | 6.30 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 3.20 | U | 0.85 | 3.20 | 6.30 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.20 | U | 1.70 | 3.20 | 6.30 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 3.20 | U | 0.85 | 3.20 | 6.30 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 3.20 | U | 0.93 | 3.20 | 6.30 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 3.20 | U | 1.00 | 3.20 | 6.30 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 3.20 | U | 0.80 | 3.20 | 6.30 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 3.20 | U | 0.75 | 3.20 | 6.30 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 100 | U | 53.7 | 100 | 130 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 58.5 | | 71 - 136 | | 117% | SPK: 50 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 12/17/24 |
| Project: | CTO WE13 | Date Received: | 12/17/24 |
| Client Sample ID: | TT-304-IDWSO-20241217-1 | SDG No.: | P5316 |
| Lab Sample ID: | P5316-01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 68.6 |
| Sample Wt/Vol: | 5.77 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020718.D | 1 | | 12/26/24 15:41 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 55.2 | | 78 - 119 | | 110% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.6 | | 85 - 116 | | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.7 | | 79 - 119 | | 93% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 93100 | 7.713 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 143000 | 8.622 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 120000 | 11.42 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 47800 | 13.352 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | N.D | | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020718.D
Acq On : 26 Dec 2024 15:41
Operator : SY/MD
Sample : P5316-01
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Quant Time: Dec 27 00:33:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

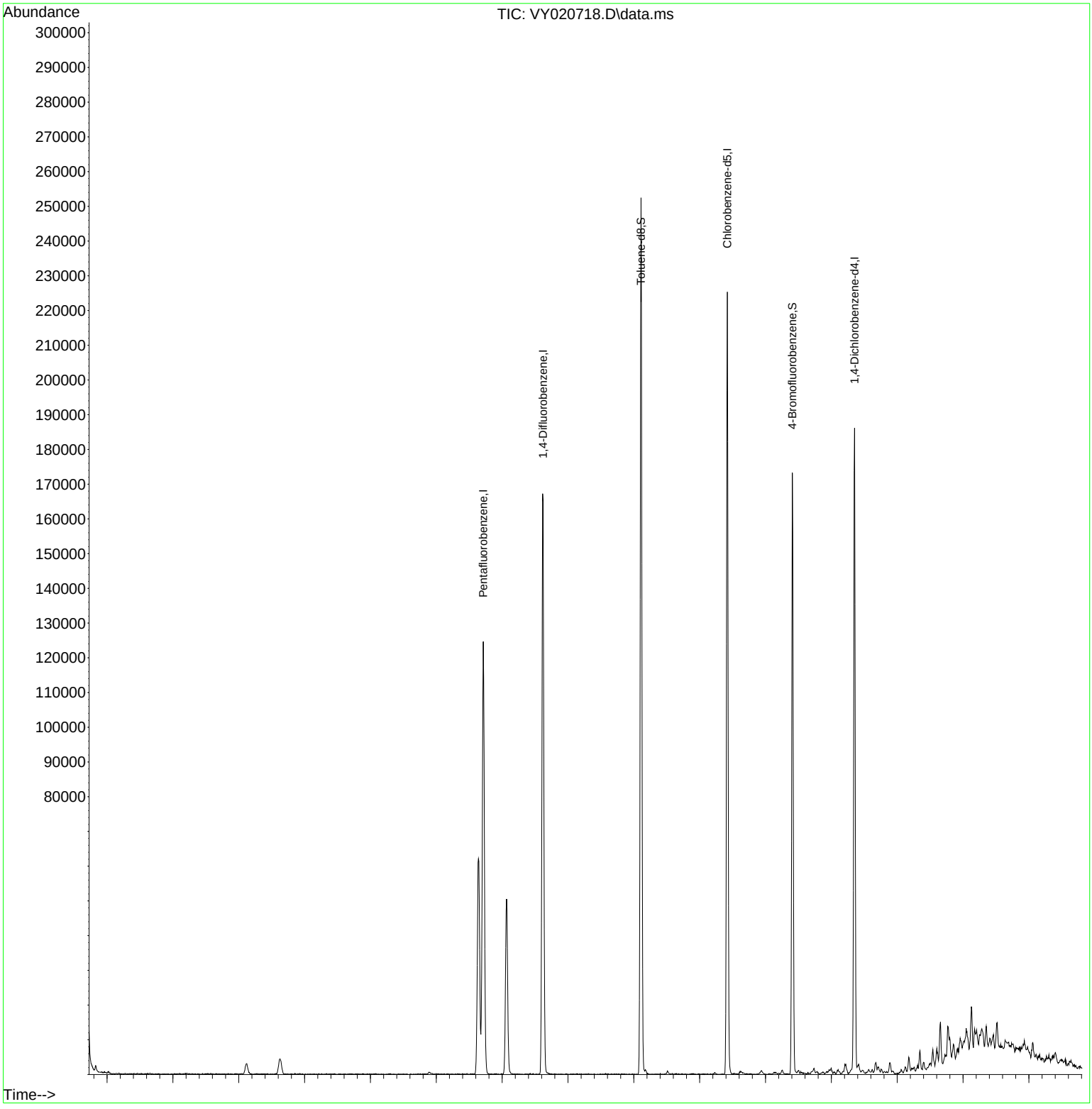
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 93149 | 50.000 | ug/l | -0.01 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 143334 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 120055 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 47762 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 44634 | 58.500 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 117.000% | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 43588 | 55.209 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 110.420% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 165584 | 52.647 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 105.300% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 49002 | 46.703 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 93.400% | | | |
| Target Compounds | | | | | | Qvalue |
| 17) Carbon Disulfide | 4.122 | 76 | 6498 | 4.161 | ug/l | 96 |

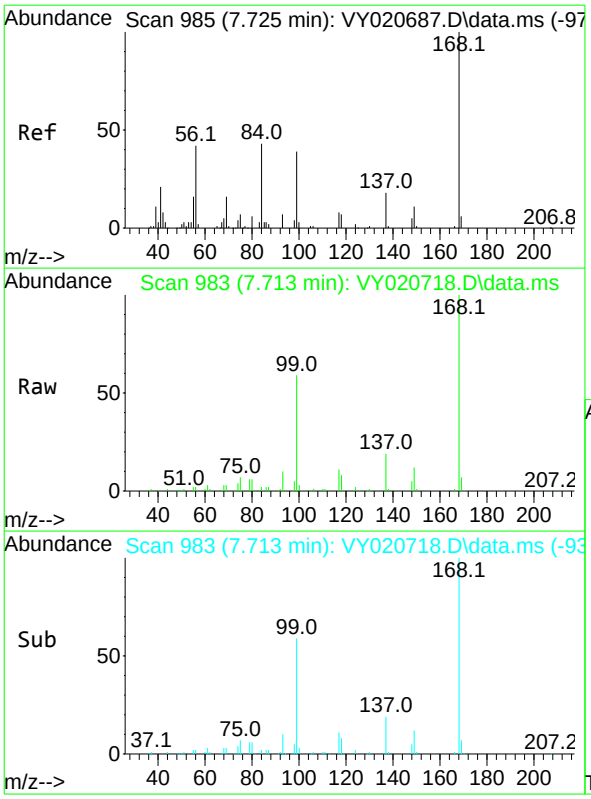
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020718.D
Acq On : 26 Dec 2024 15:41
Operator : SY/MD
Sample : P5316-01
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Quant Time: Dec 27 00:33:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration



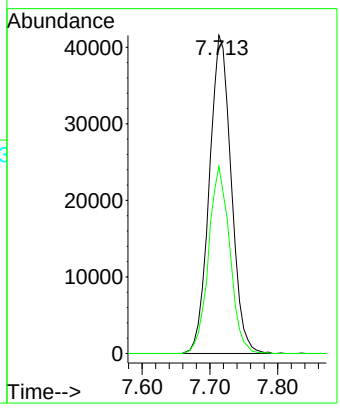


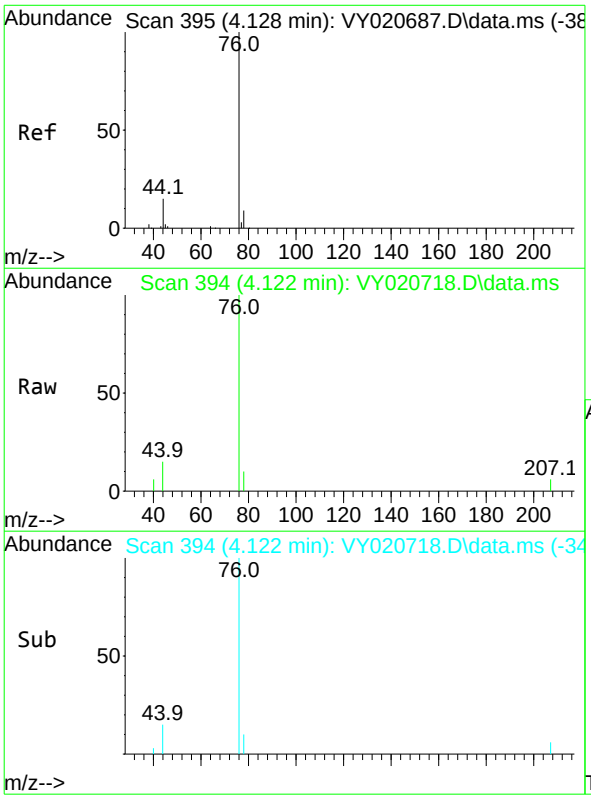

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.012 min
Lab File: VY020718.D
Acq: 26 Dec 2024 15:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion:168 Resp: 93149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.8 | 43.8 | 65.6 |

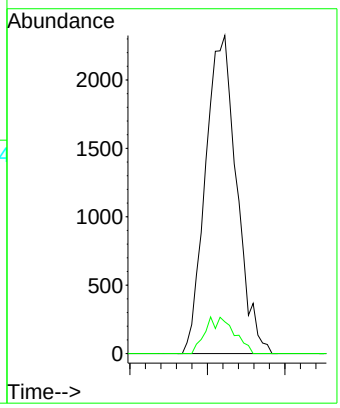


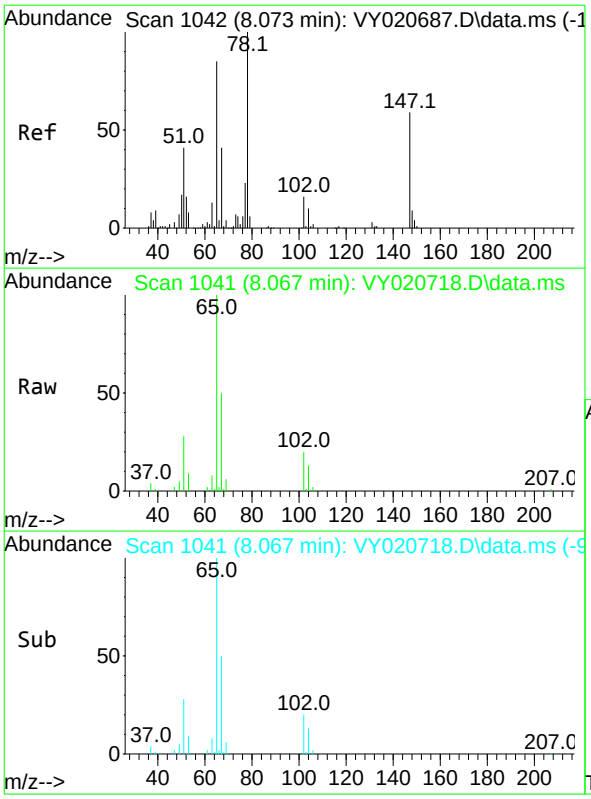




#17
Carbon Disulfide
Concen: 4.161 ug/l
RT: 4.122 min Scan# 394
Delta R.T. -0.006 min
Lab File: VY020718.D
Acq: 26 Dec 2024 15:41

Tgt Ion: 76 Resp: 6498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.0 | 6.9 | 10.3 |



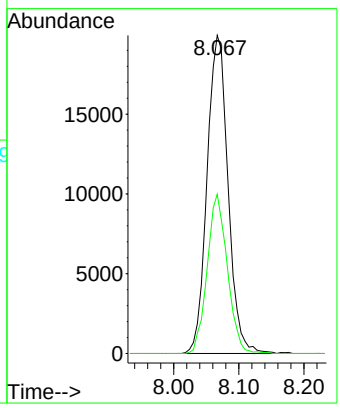


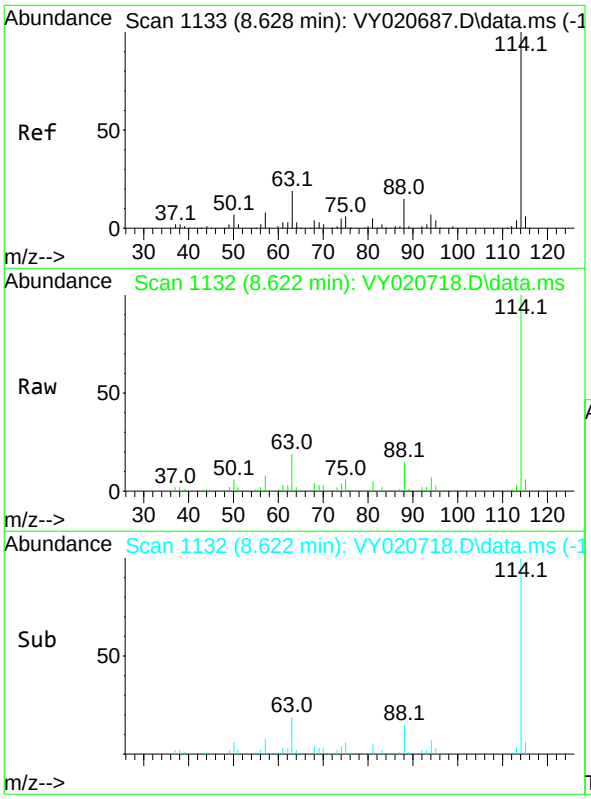

#33
1,2-Dichloroethane-d4
Concen: 58.500 ug/l
RT: 8.067 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020718.D
Acq: 26 Dec 2024 15:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion: 65 Resp: 44634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.1 | 0.0 | 98.0 |

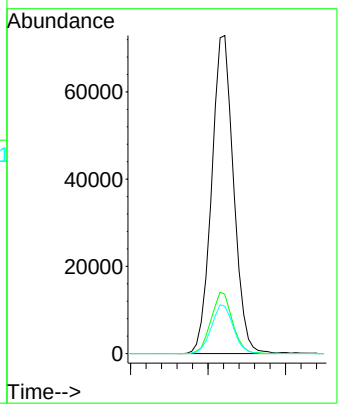


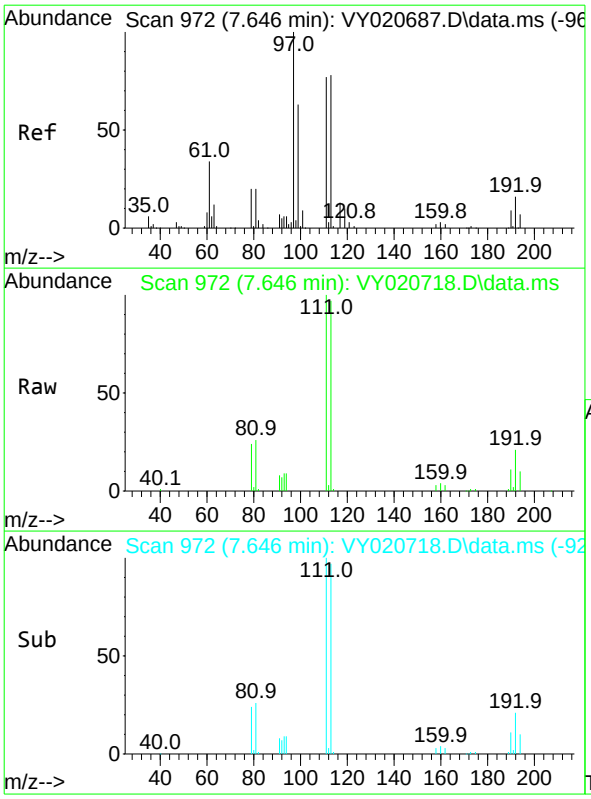




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020718.D
Acq: 26 Dec 2024 15:41

Tgt Ion:114 Resp: 143334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.6 | 0.0 | 38.4 |
| 88 | 14.9 | 0.0 | 30.4 |



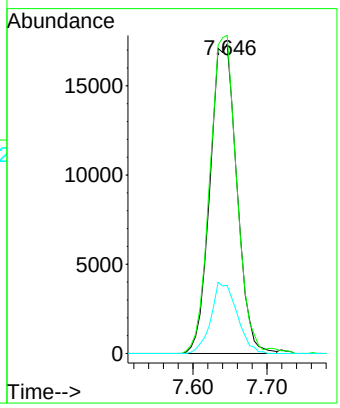


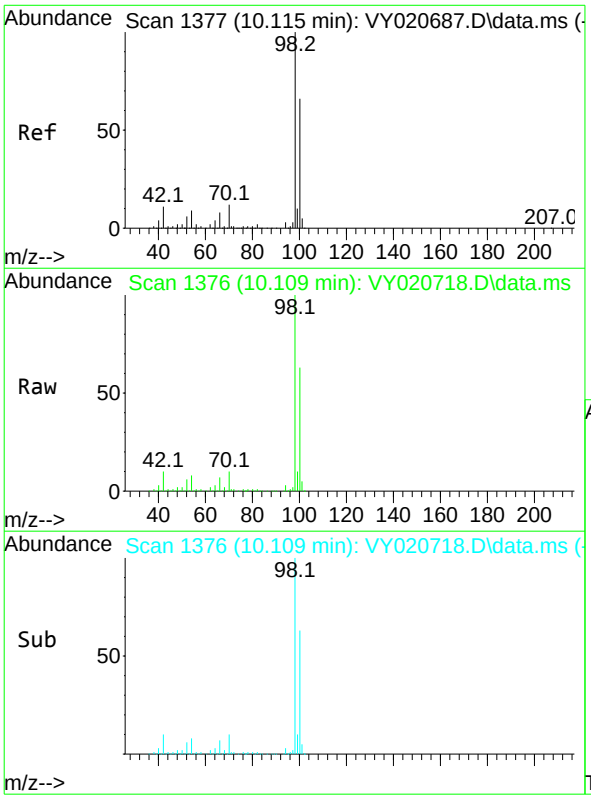

#35
Dibromofluoromethane
Concen: 55.209 ug/l
RT: 7.646 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020718.D
Acq: 26 Dec 2024 15:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion:113 Resp: 43588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.5 | 79.8 | 119.8 |
| 192 | 22.3 | 17.0 | 25.6 |

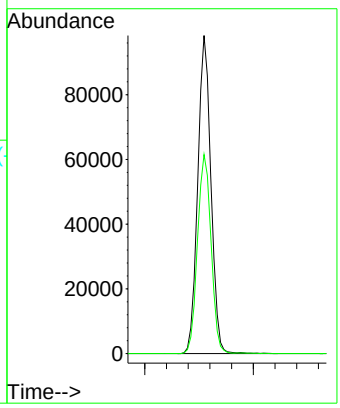


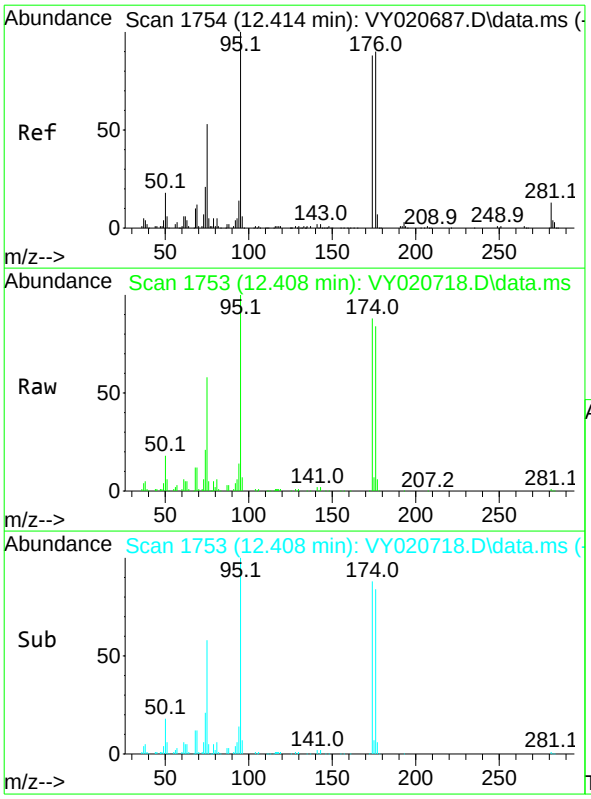




#50
Toluene-d8
Concen: 52.647 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020718.D
Acq: 26 Dec 2024 15:41

Tgt Ion: 98 Resp: 165584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.4 | 52.2 | 78.4 |



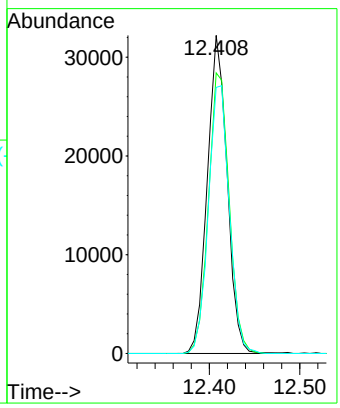


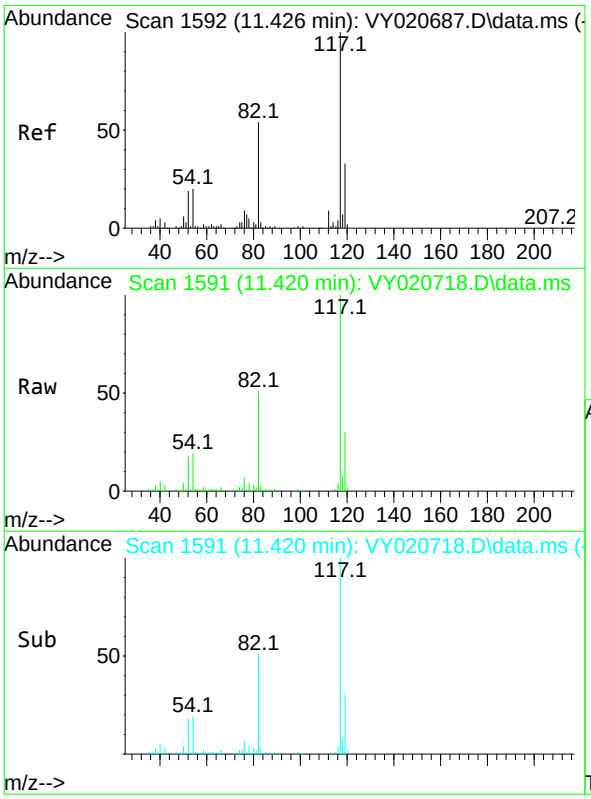

#62
4-Bromofluorobenzene
Concen: 46.703 ug/l
RT: 12.408 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020718.D
Acq: 26 Dec 2024 15:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion: 95 Resp: 49002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 92.3 | 0.0 | 179.2 |
| 176 | 89.1 | 0.0 | 179.8 |

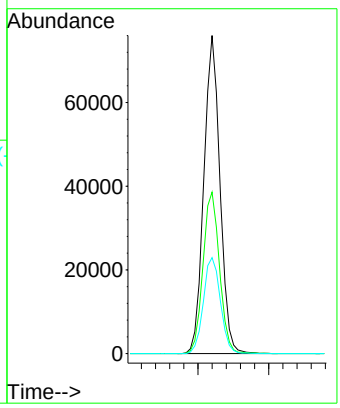


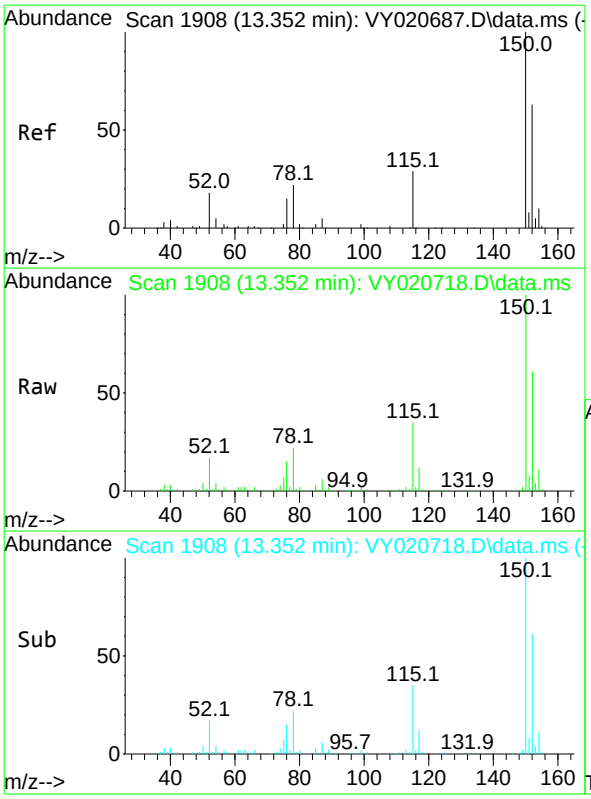




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.006 min
Lab File: VY020718.D
Acq: 26 Dec 2024 15:41

Tgt Ion:117 Resp: 120055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.8 | 43.4 | 65.2 |
| 119 | 30.2 | 26.6 | 39.8 |



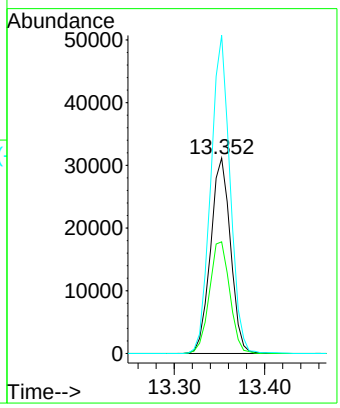



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020718.D
Acq: 26 Dec 2024 15:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion:152 Resp: 47762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.3 | 30.3 | 90.9 |
| 150 | 157.5 | 0.0 | 349.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020718.D
Acq On : 26 Dec 2024 15:41
Operator : SY/MD
Sample : P5316-01
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Title : SW846 8260

Signal : TIC: VY020718.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.122 | 384 | 394 | 406 | rVB | 3100 | 9236 | 2.13% | 0.378% |
| 2 | 4.628 | 464 | 477 | 486 | rBV5 | 4478 | 14500 | 3.34% | 0.594% |
| 3 | 7.640 | 962 | 971 | 977 | rBV2 | 62083 | 156984 | 36.15% | 6.431% |
| 4 | 7.713 | 977 | 983 | 996 | rVB | 124535 | 275056 | 63.34% | 11.269% |
| 5 | 8.067 | 1032 | 1041 | 1056 | rBV | 50487 | 114131 | 26.28% | 4.676% |
| 6 | 8.616 | 1123 | 1131 | 1148 | rBV | 167219 | 330512 | 76.11% | 13.541% |
| 7 | 10.109 | 1368 | 1376 | 1385 | rBV | 252422 | 434237 | 100.00% | 17.790% |
| 8 | 11.420 | 1584 | 1591 | 1602 | rBV | 225252 | 361831 | 83.33% | 14.824% |
| 9 | 12.408 | 1746 | 1753 | 1764 | rBV | 173151 | 270931 | 62.39% | 11.100% |
| 10 | 13.206 | 1881 | 1884 | 1892 | rVB7 | 2744 | 6134 | 1.41% | 0.251% |
| 11 | 13.352 | 1894 | 1908 | 1914 | rVV | 185785 | 289724 | 66.72% | 11.870% |
| 12 | 13.413 | 1914 | 1918 | 1923 | rVB5 | 2233 | 4360 | 1.00% | 0.179% |
| 13 | 13.676 | 1955 | 1961 | 1964 | rBV6 | 2878 | 5240 | 1.21% | 0.215% |
| 14 | 13.889 | 1991 | 1996 | 2000 | rBV4 | 2894 | 5056 | 1.16% | 0.207% |
| 15 | 14.175 | 2039 | 2043 | 2048 | rVV6 | 4113 | 6523 | 1.50% | 0.267% |
| 16 | 14.346 | 2066 | 2071 | 2077 | rVB4 | 5432 | 7936 | 1.83% | 0.325% |
| 17 | 14.541 | 2099 | 2103 | 2108 | rVB4 | 4715 | 6913 | 1.59% | 0.283% |
| 18 | 14.602 | 2108 | 2113 | 2117 | rBV6 | 5057 | 9365 | 2.16% | 0.384% |
| 19 | 14.657 | 2117 | 2122 | 2128 | rVB5 | 12055 | 19782 | 4.56% | 0.810% |
| 20 | 14.767 | 2137 | 2140 | 2144 | rBV5 | 8530 | 15325 | 3.53% | 0.628% |
| 21 | 14.852 | 2150 | 2154 | 2159 | rVB8 | 4246 | 7747 | 1.78% | 0.317% |
| 22 | 14.913 | 2159 | 2164 | 2167 | rBV6 | 2956 | 5519 | 1.27% | 0.226% |
| 23 | 14.956 | 2167 | 2171 | 2176 | rBV6 | 4106 | 8590 | 1.98% | 0.352% |
| 24 | 15.047 | 2184 | 2186 | 2193 | rVB6 | 6095 | 11230 | 2.59% | 0.460% |
| 25 | 15.127 | 2193 | 2199 | 2204 | rBV6 | 12298 | 20422 | 4.70% | 0.837% |
| 26 | 15.175 | 2204 | 2207 | 2209 | rBV3 | 5424 | 7481 | 1.72% | 0.306% |
| 27 | 15.352 | 2231 | 2236 | 2241 | rBV6 | 5839 | 8852 | 2.04% | 0.363% |
| 28 | 15.517 | 2257 | 2263 | 2270 | rBV6 | 7347 | 13446 | 3.10% | 0.551% |
| 29 | 16.059 | 2347 | 2352 | 2357 | rBV6 | 4362 | 7770 | 1.79% | 0.318% |
| 30 | 16.401 | 2405 | 2408 | 2415 | rVB9 | 3086 | 6073 | 1.40% | 0.249% |

Sum of corrected areas: 2440906

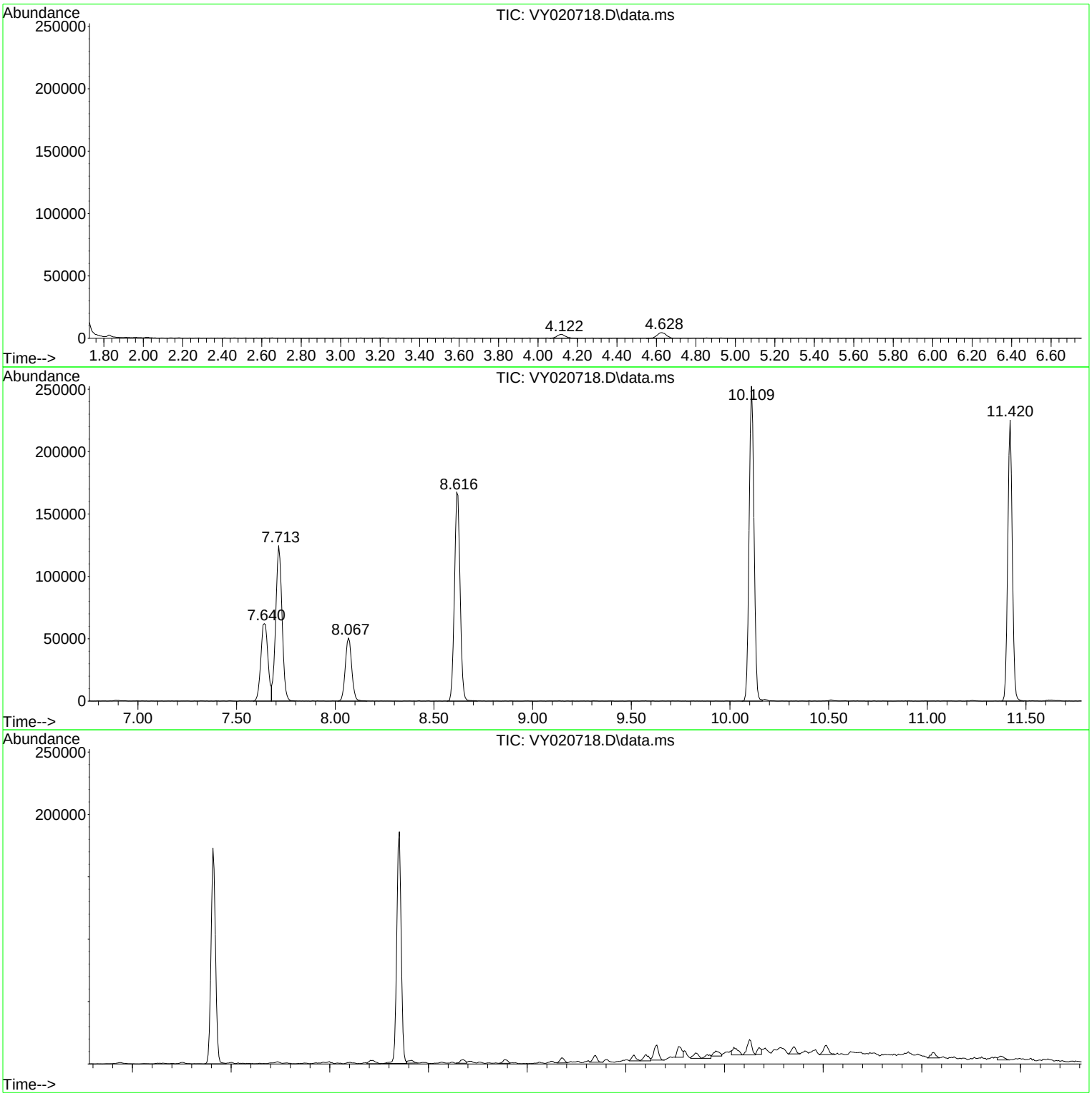
Sample Results: **VY020718.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020718.D
Acq On : 26 Dec 2024 15:41
Operator : SY/MD
Sample : P5316-01
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020718.D
Acq On : 26 Dec 2024 15:41
Operator : SY/MD
Sample : P5316-01
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020718.D
Acq On : 26 Dec 2024 15:41
Operator : SY/MD
Sample : P5316-01
Misc : 5.77g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 16 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 12/17/24 |
| Project: | CTO WE13 | Date Received: | 12/17/24 |
| Client Sample ID: | TT-304-IDWSO-20241217-2 | SDG No.: | P5316 |
| Lab Sample ID: | P5316-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 74.4 |
| Sample Wt/Vol: | 6.2 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020720.D | 1 | | 12/26/24 16:28 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-01-4 | Vinyl Chloride | 2.70 | U | 0.83 | 2.70 | 5.40 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.70 | U | 0.85 | 2.70 | 5.40 | ug/Kg |
| 67-64-1 | Acetone | 22.8 | J | 6.80 | 21.7 | 27.1 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.70 | U | 0.73 | 2.70 | 5.40 | ug/Kg |
| 75-09-2 | Methylene Chloride | 14.3 | | 3.70 | 8.70 | 10.8 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.70 | U | 0.91 | 2.70 | 5.40 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.70 | U | 0.68 | 2.70 | 5.40 | ug/Kg |
| 78-93-3 | 2-Butanone | 21.7 | U | 6.20 | 21.7 | 27.1 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.70 | U | 0.94 | 2.70 | 5.40 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.70 | U | 0.66 | 2.70 | 5.40 | ug/Kg |
| 67-66-3 | Chloroform | 4.30 | U | 0.73 | 4.30 | 5.40 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.70 | U | 0.85 | 2.70 | 5.40 | ug/Kg |
| 71-43-2 | Benzene | 2.70 | U | 0.78 | 2.70 | 5.40 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.70 | U | 0.66 | 2.70 | 5.40 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.70 | U | 0.81 | 2.70 | 5.40 | ug/Kg |
| 108-88-3 | Toluene | 2.70 | U | 0.73 | 2.70 | 5.40 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.70 | U | 0.96 | 2.70 | 5.40 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.70 | U | 0.80 | 2.70 | 5.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.70 | U | 0.67 | 2.70 | 5.40 | ug/Kg |
| 1330-20-7 | Total Xylenes | 8.10 | U | 2.26 | 8.10 | 16.2 | ug/Kg |
| 103-65-1 | n-propylbenzene | 2.70 | U | 0.69 | 2.70 | 5.40 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 2.70 | U | 0.73 | 2.70 | 5.40 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.70 | U | 1.50 | 2.70 | 5.40 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 2.70 | U | 0.73 | 2.70 | 5.40 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.70 | U | 0.80 | 2.70 | 5.40 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.70 | U | 0.87 | 2.70 | 5.40 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 2.70 | U | 0.68 | 2.70 | 5.40 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.70 | U | 0.64 | 2.70 | 5.40 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 86.7 | U | 46.1 | 86.7 | 110 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 58.7 | | 71 - 136 | | 117% | SPK: 50 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 12/17/24 |
| Project: | CTO WE13 | Date Received: | 12/17/24 |
| Client Sample ID: | TT-304-IDWSO-20241217-2 | SDG No.: | P5316 |
| Lab Sample ID: | P5316-02 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 74.4 |
| Sample Wt/Vol: | 6.2 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020720.D | 1 | | 12/26/24 16:28 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 55.8 | | 78 - 119 | | 112% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.4 | | 85 - 116 | | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 47.9 | | 79 - 119 | | 96% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 90600 | 7.713 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 141000 | 8.621 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 117000 | 11.42 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 47300 | 13.352 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | N.D | | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020720.D
Acq On : 26 Dec 2024 16:28
Operator : SY/MD
Sample : P5316-02
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Quant Time: Dec 27 00:34:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

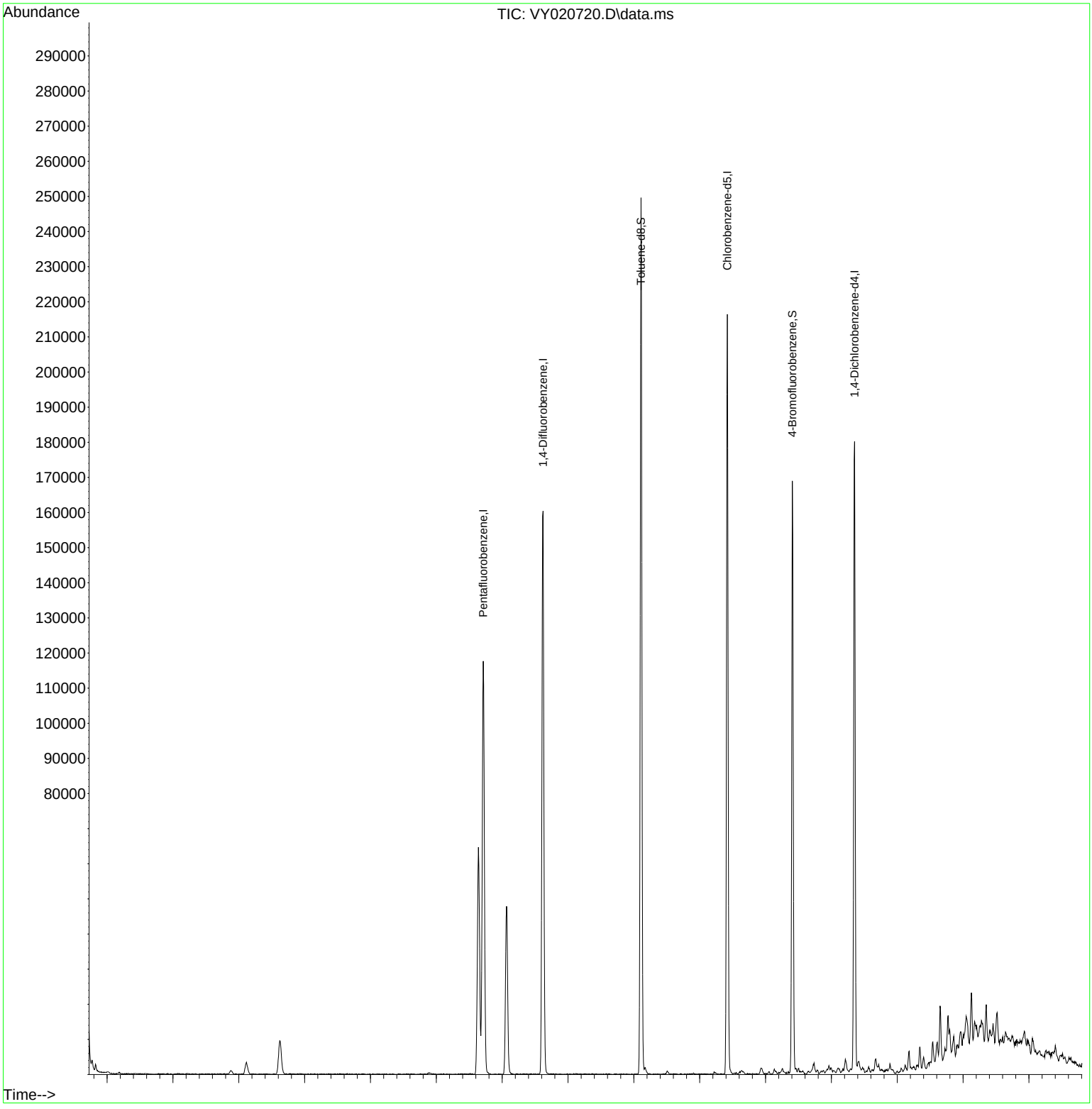
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 90592 | 50.000 | ug/l | -0.01 |
| 34) 1,4-Difluorobenzene | 8.621 | 114 | 140817 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 117470 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 47280 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 43539 | 58.675 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 117.360% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 43269 | 55.785 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 111.560% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 161876 | 52.396 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.800% | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 49426 | 47.949 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 95.900% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.878 | 43 | 1984 | 21.076 | ug/l # | 83 |
| 17) Carbon Disulfide | 4.116 | 76 | 6974 | 4.592 | ug/l # | 94 |
| 20) Methylene Chloride | 4.622 | 84 | 8099 | 13.229 | ug/l # | 80 |

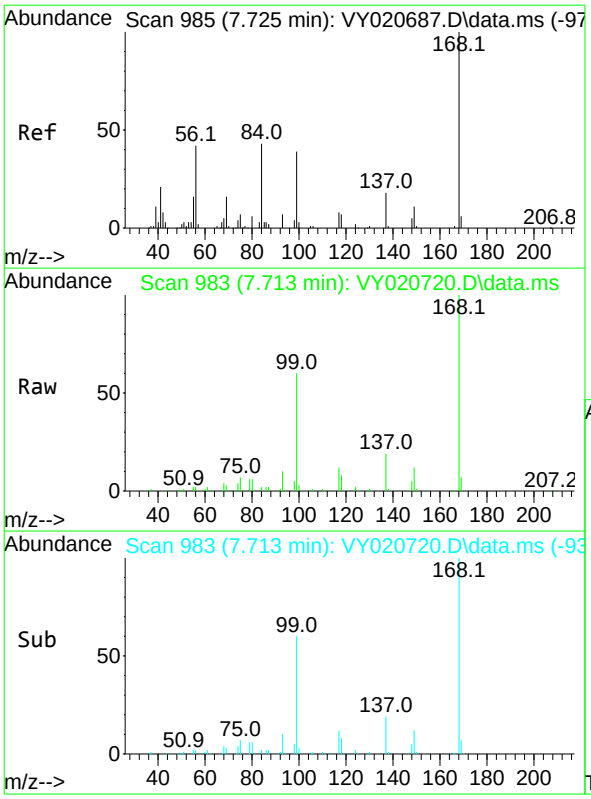
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020720.D
Acq On : 26 Dec 2024 16:28
Operator : SY/MD
Sample : P5316-02
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Quant Time: Dec 27 00:34:02 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration



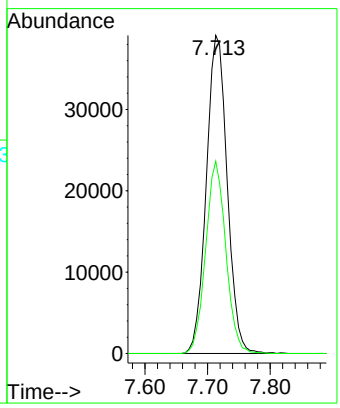


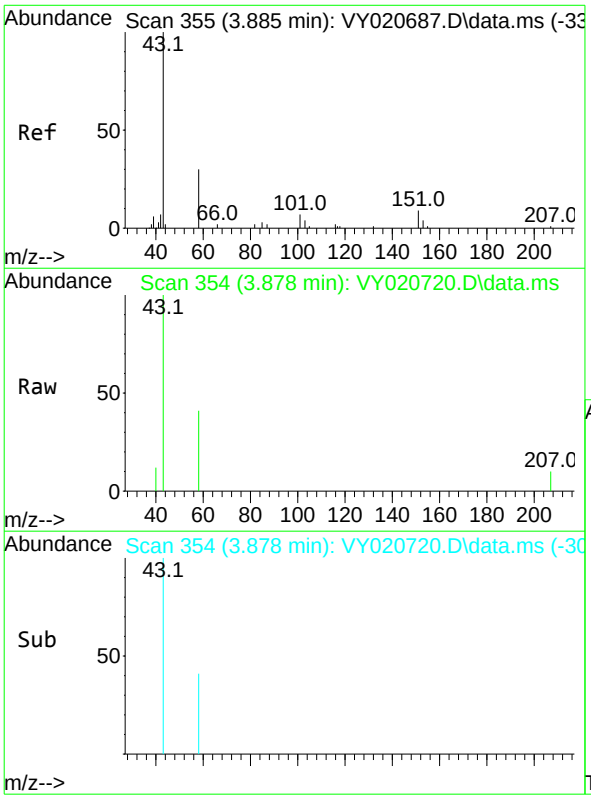

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.012 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion:168 Resp: 90592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.4 | 43.8 | 65.6 |

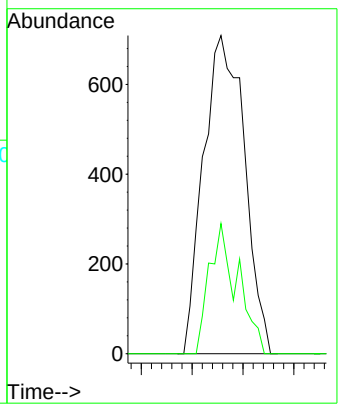


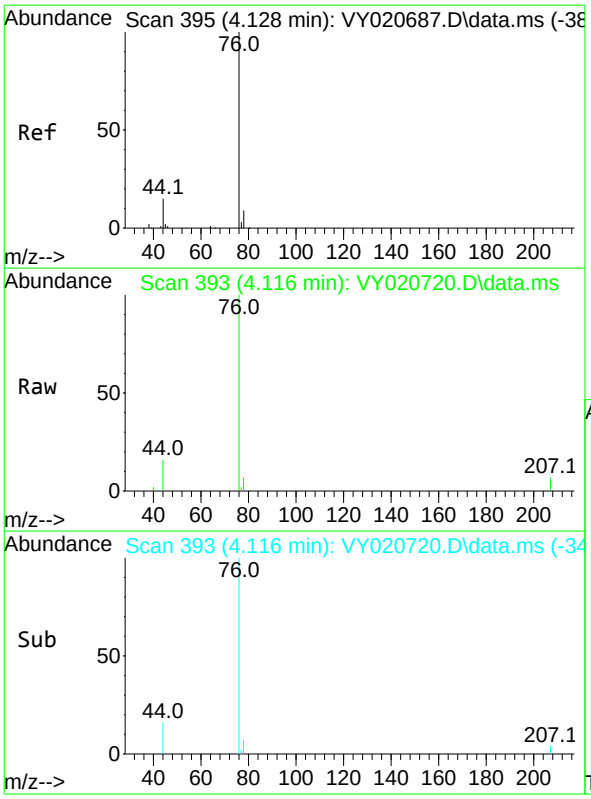




#16
Acetone
Concen: 21.076 ug/l
RT: 3.878 min Scan# 354
Delta R.T. -0.007 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

Tgt Ion: 43 Resp: 1984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.9 | 25.0 | 37.6# |



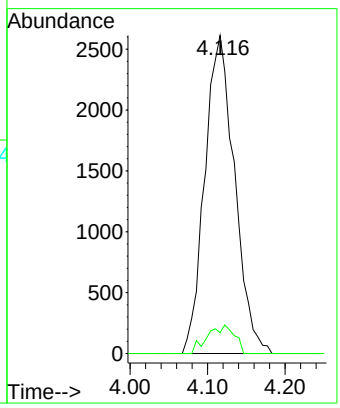


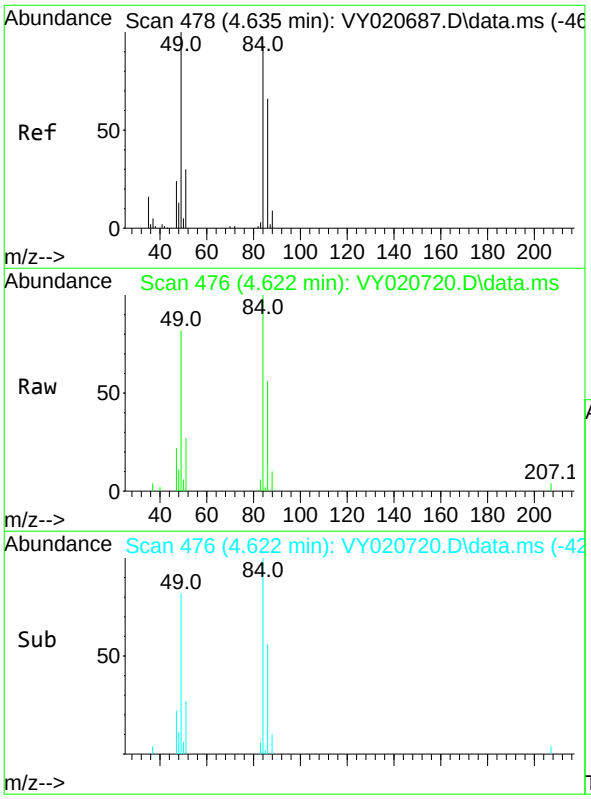

#17
Carbon Disulfide
Concen: 4.592 ug/l
RT: 4.116 min Scan# 39
Delta R.T. -0.012 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion: 76 Resp: 6974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 6.6 | 6.9 | 10.3# |

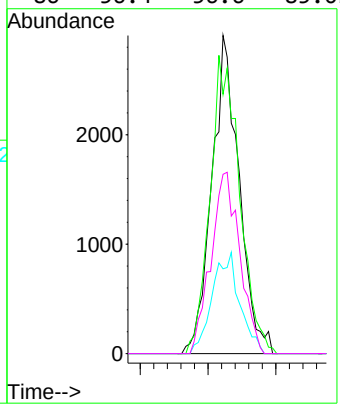


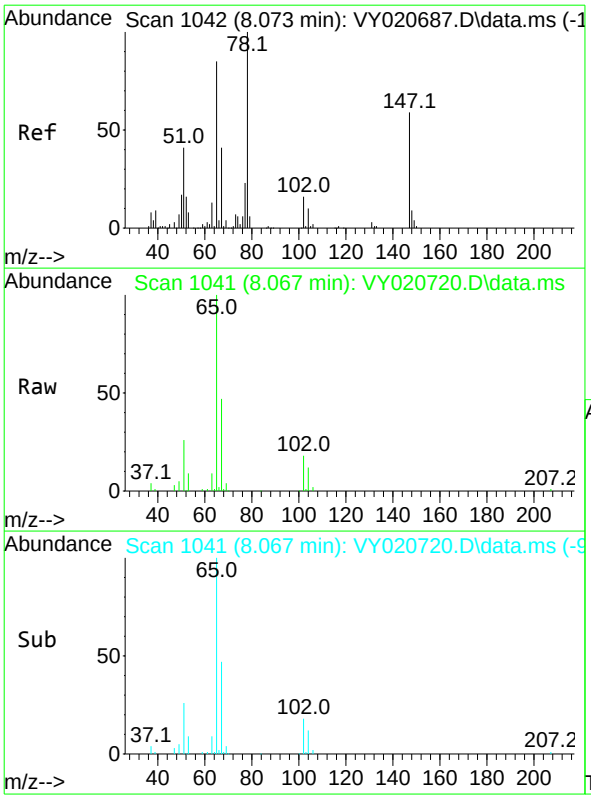




#20
Methylene Chloride
Concen: 13.229 ug/l
RT: 4.622 min Scan# 476
Delta R.T. -0.013 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

Tgt Ion: 84 Resp: 8099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 81.5 | 86.4 | 129.6# |
| 51 | 26.7 | 25.5 | 38.3 |
| 86 | 56.4 | 56.6 | 85.0# |



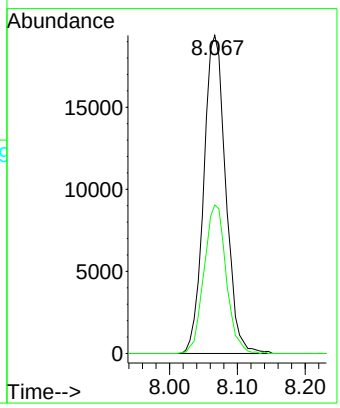


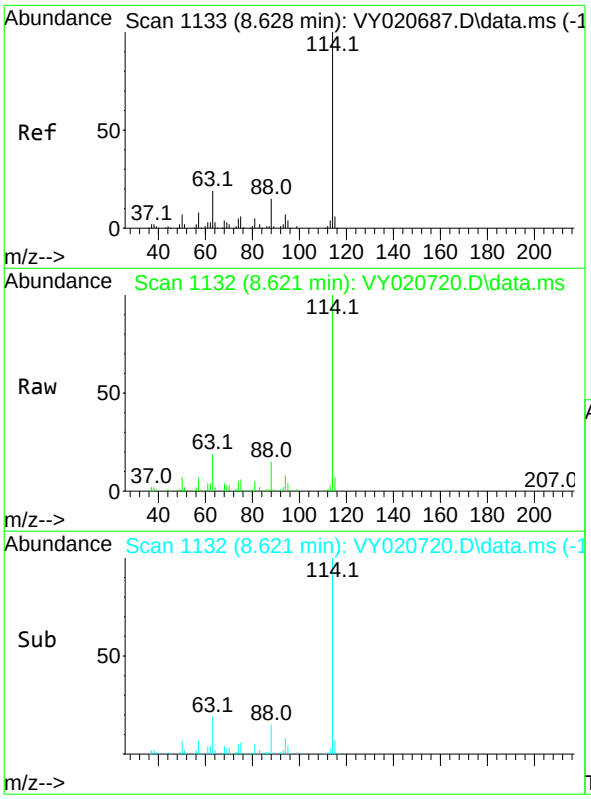

#33
1,2-Dichloroethane-d4
Concen: 58.675 ug/l
RT: 8.067 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion: 65 Resp: 43539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 47.3 | 0.0 | 98.0 |

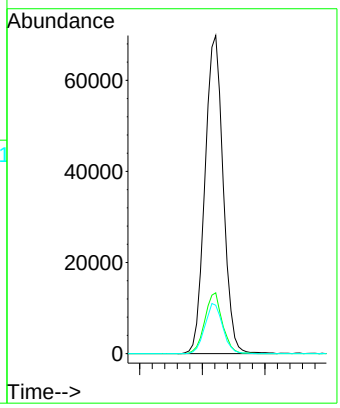


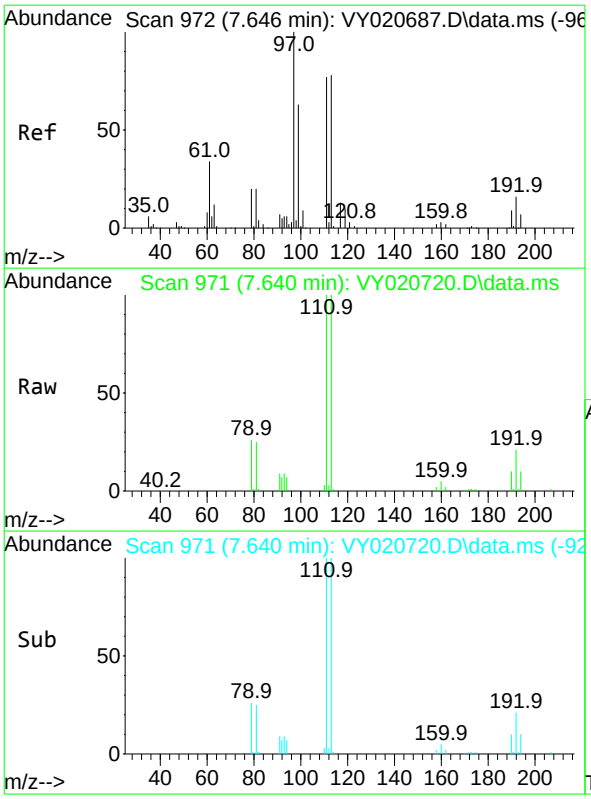




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 1132
Delta R.T. -0.007 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

Tgt Ion:114 Resp: 140817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.1 | 0.0 | 38.4 |
| 88 | 15.2 | 0.0 | 30.4 |



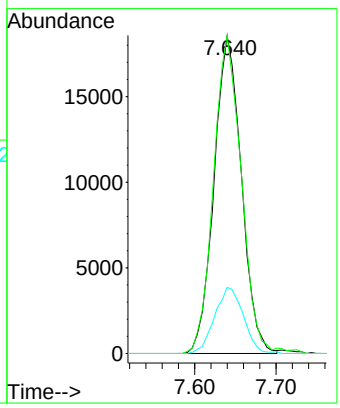


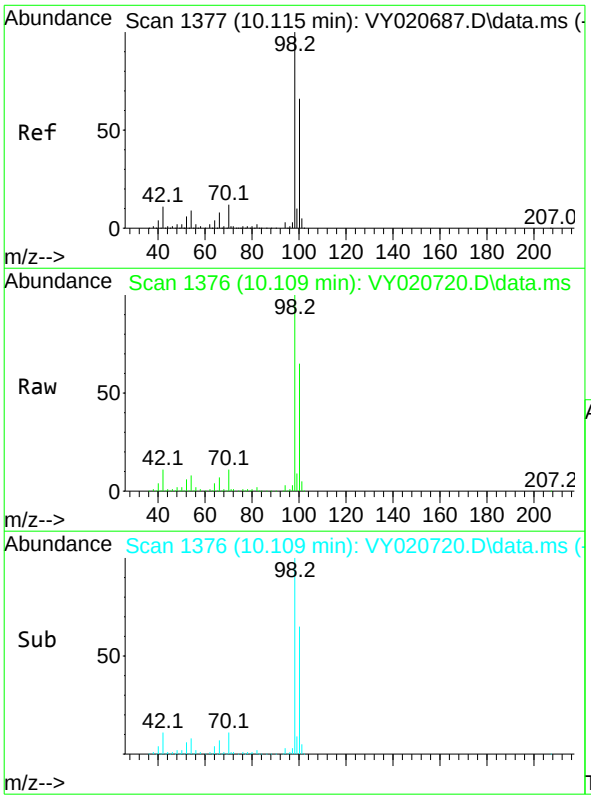

#35
Dibromofluoromethane
Concen: 55.785 ug/l
RT: 7.640 min Scan# 97
Delta R.T. -0.006 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion:113 Resp: 43269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.0 | 79.8 | 119.8 |
| 192 | 21.9 | 17.0 | 25.6 |

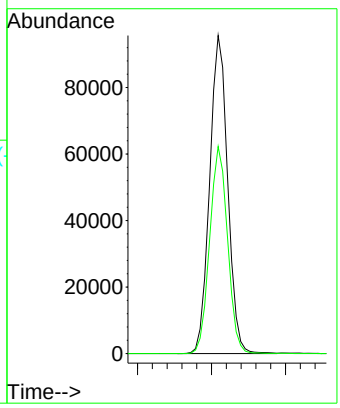


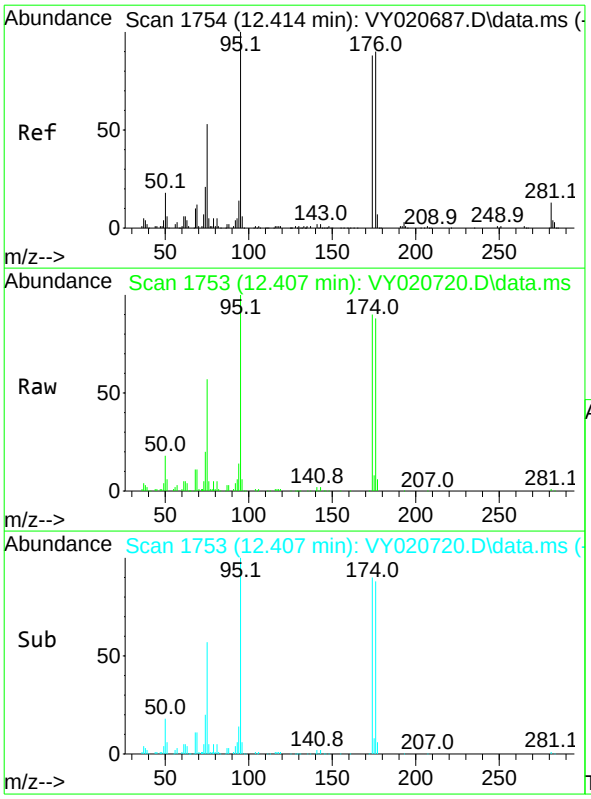




#50
Toluene-d8
Concen: 52.396 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

Tgt Ion: 98 Resp: 161876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 52.2 | 78.4 |



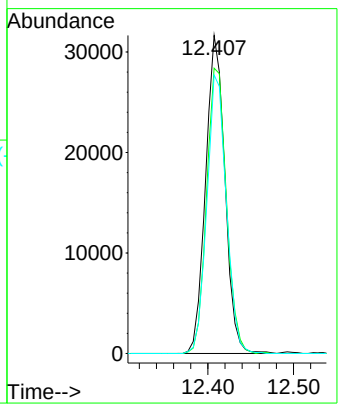


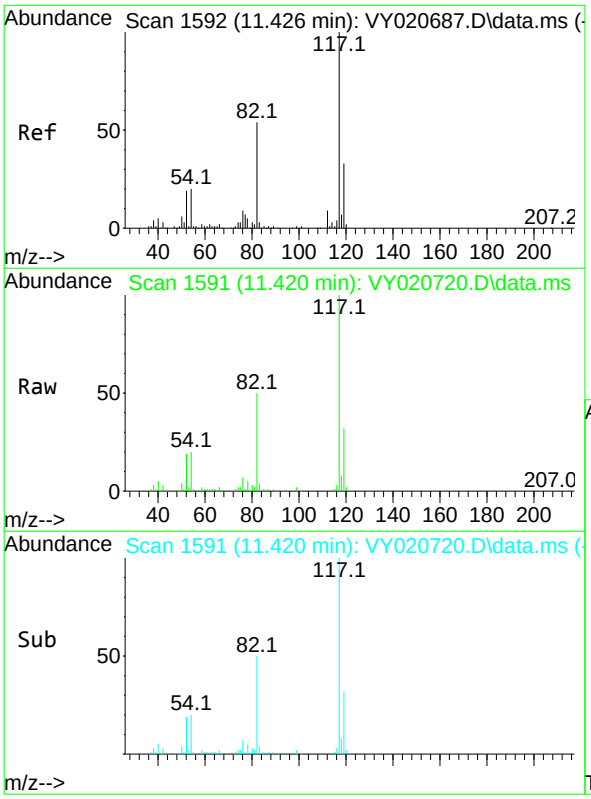

#62
4-Bromofluorobenzene
Concen: 47.949 ug/l
RT: 12.407 min Scan# 17
Delta R.T. -0.007 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion: 95 Resp: 49426

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 92.3 | 0.0 | 179.2 |
| 176 | 88.4 | 0.0 | 179.8 |

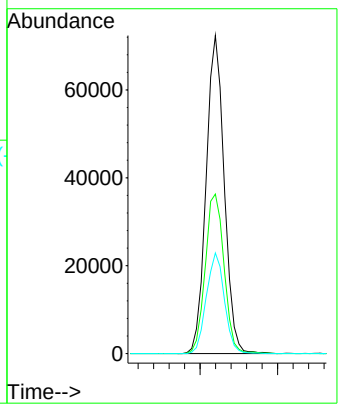


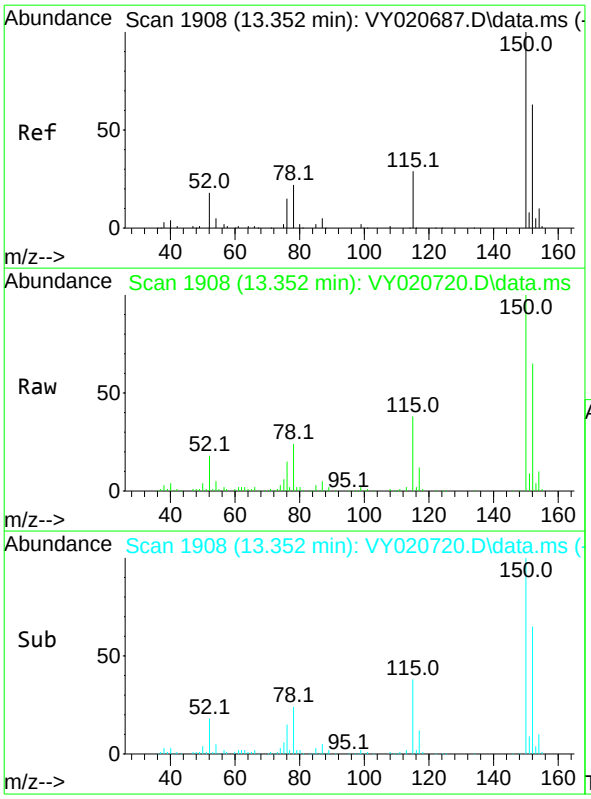




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.006 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

Tgt Ion:117 Resp: 117470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.2 | 43.4 | 65.2 |
| 119 | 31.6 | 26.6 | 39.8 |



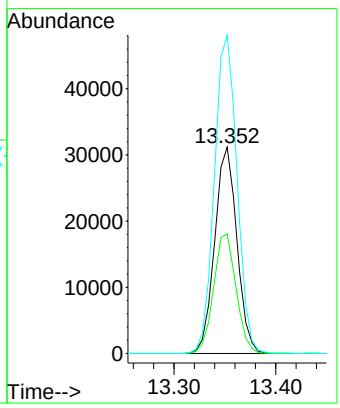



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020720.D
Acq: 26 Dec 2024 16:28

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion:152 Resp: 47280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.8 | 30.3 | 90.9 |
| 150 | 157.4 | 0.0 | 349.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020720.D
Acq On : 26 Dec 2024 16:28
Operator : SY/MD
Sample : P5316-02
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Title : SW846 8260

Signal : TIC: VY020720.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.116 | 384 | 393 | 402 | rVB | 3425 | 9311 | 2.20% | 0.376% |
| 2 | 4.622 | 465 | 476 | 490 | rBV3 | 9584 | 29803 | 7.04% | 1.202% |
| 3 | 7.640 | 961 | 971 | 977 | rBV | 64659 | 154426 | 36.49% | 6.228% |
| 4 | 7.713 | 977 | 983 | 997 | rVB | 117505 | 266706 | 63.03% | 10.756% |
| 5 | 8.067 | 1030 | 1041 | 1055 | rBV2 | 47899 | 109015 | 25.76% | 4.397% |
| 6 | 8.621 | 1122 | 1132 | 1148 | rBV | 160365 | 324582 | 76.71% | 13.090% |
| 7 | 10.109 | 1368 | 1376 | 1384 | rBV | 249476 | 423156 | 100.00% | 17.066% |
| 8 | 11.420 | 1584 | 1591 | 1604 | rBV | 216323 | 353564 | 83.55% | 14.259% |
| 9 | 11.932 | 1664 | 1675 | 1683 | rBV6 | 1784 | 4812 | 1.14% | 0.194% |
| 10 | 12.407 | 1746 | 1753 | 1760 | rBV | 168572 | 266972 | 63.09% | 10.767% |
| 11 | 12.737 | 1797 | 1807 | 1812 | rBV8 | 2710 | 5920 | 1.40% | 0.239% |
| 12 | 13.212 | 1881 | 1885 | 1894 | rVB8 | 3552 | 6917 | 1.63% | 0.279% |
| 13 | 13.352 | 1901 | 1908 | 1914 | rBV | 178750 | 280318 | 66.24% | 11.305% |
| 14 | 13.419 | 1914 | 1919 | 1925 | rVB7 | 2450 | 5221 | 1.23% | 0.211% |
| 15 | 13.675 | 1955 | 1961 | 1965 | rBV5 | 3425 | 6802 | 1.61% | 0.274% |
| 16 | 14.181 | 2039 | 2044 | 2047 | rBV4 | 5445 | 8548 | 2.02% | 0.345% |
| 17 | 14.340 | 2067 | 2070 | 2076 | rVB5 | 6230 | 9396 | 2.22% | 0.379% |
| 18 | 14.401 | 2076 | 2080 | 2086 | rVB6 | 3296 | 5461 | 1.29% | 0.220% |
| 19 | 14.541 | 2099 | 2103 | 2107 | rBV5 | 5870 | 8731 | 2.06% | 0.352% |
| 20 | 14.608 | 2108 | 2114 | 2117 | rBV7 | 5464 | 10146 | 2.40% | 0.409% |
| 21 | 14.651 | 2117 | 2121 | 2127 | rVB4 | 15574 | 24820 | 5.87% | 1.001% |
| 22 | 14.724 | 2127 | 2133 | 2134 | rBV5 | 3529 | 4419 | 1.04% | 0.178% |
| 23 | 14.773 | 2136 | 2141 | 2143 | rBV5 | 10018 | 14882 | 3.52% | 0.600% |
| 24 | 14.858 | 2150 | 2155 | 2159 | rVB6 | 5643 | 10032 | 2.37% | 0.405% |
| 25 | 14.919 | 2160 | 2165 | 2167 | rBV6 | 2834 | 5377 | 1.27% | 0.217% |
| 26 | 14.962 | 2167 | 2172 | 2176 | rVV7 | 4711 | 9641 | 2.28% | 0.389% |
| 27 | 15.047 | 2182 | 2186 | 2194 | rVB8 | 7739 | 18773 | 4.44% | 0.757% |
| 28 | 15.126 | 2194 | 2199 | 2203 | rBV5 | 14427 | 22675 | 5.36% | 0.914% |
| 29 | 15.175 | 2203 | 2207 | 2211 | rBV6 | 5283 | 10312 | 2.44% | 0.416% |
| 30 | 15.352 | 2231 | 2236 | 2241 | rBV4 | 10501 | 15314 | 3.62% | 0.618% |
| 31 | 15.413 | 2242 | 2246 | 2249 | rVV5 | 3397 | 6624 | 1.57% | 0.267% |
| 32 | 15.456 | 2251 | 2253 | 2257 | rVV5 | 5609 | 6848 | 1.62% | 0.276% |
| 33 | 15.517 | 2257 | 2263 | 2269 | rVB8 | 9021 | 18360 | 4.34% | 0.740% |
| 34 | 15.645 | 2280 | 2284 | 2287 | rBV6 | 3043 | 5226 | 1.24% | 0.211% |
| 35 | 16.053 | 2347 | 2351 | 2358 | rBV7 | 4470 | 8987 | 2.12% | 0.362% |
| 36 | 16.400 | 2406 | 2408 | 2416 | rVB8 | 4410 | 7457 | 1.76% | 0.301% |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020720.D
Acq On : 26 Dec 2024 16:28
Operator : SY/MD
Sample : P5316-02
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Title : SW846 8260

Sum of corrected areas: 2479554

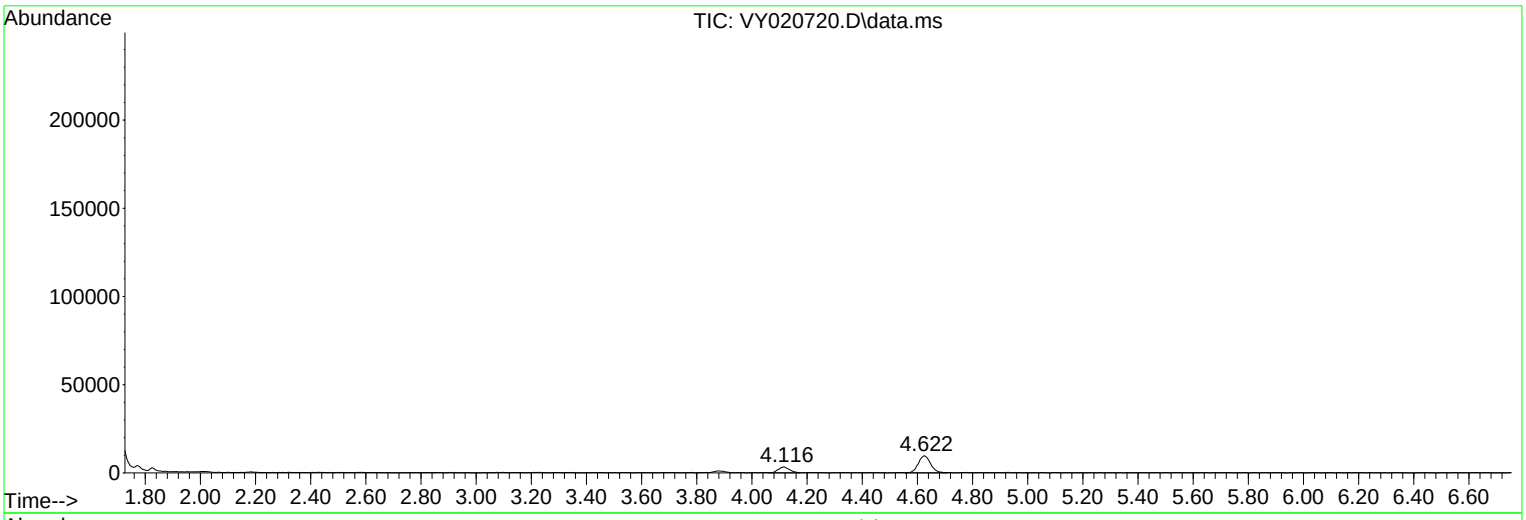
Sample Results: **VY020720.D**

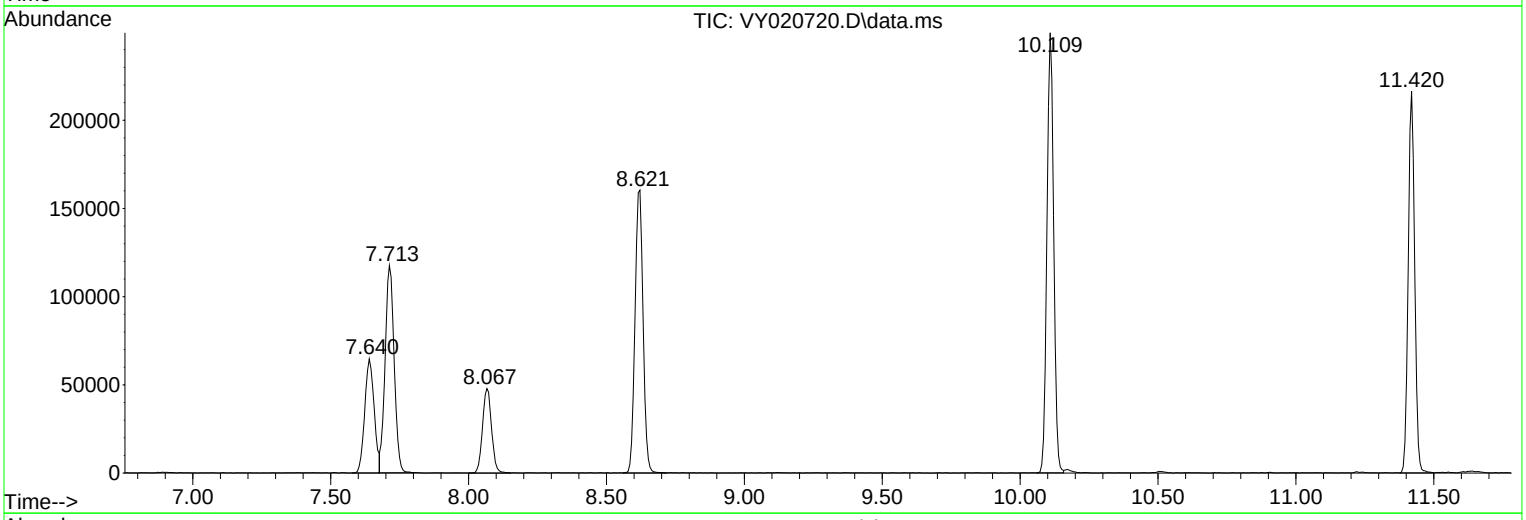
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020720.D
Acq On : 26 Dec 2024 16:28
Operator : SY/MD
Sample : P5316-02
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

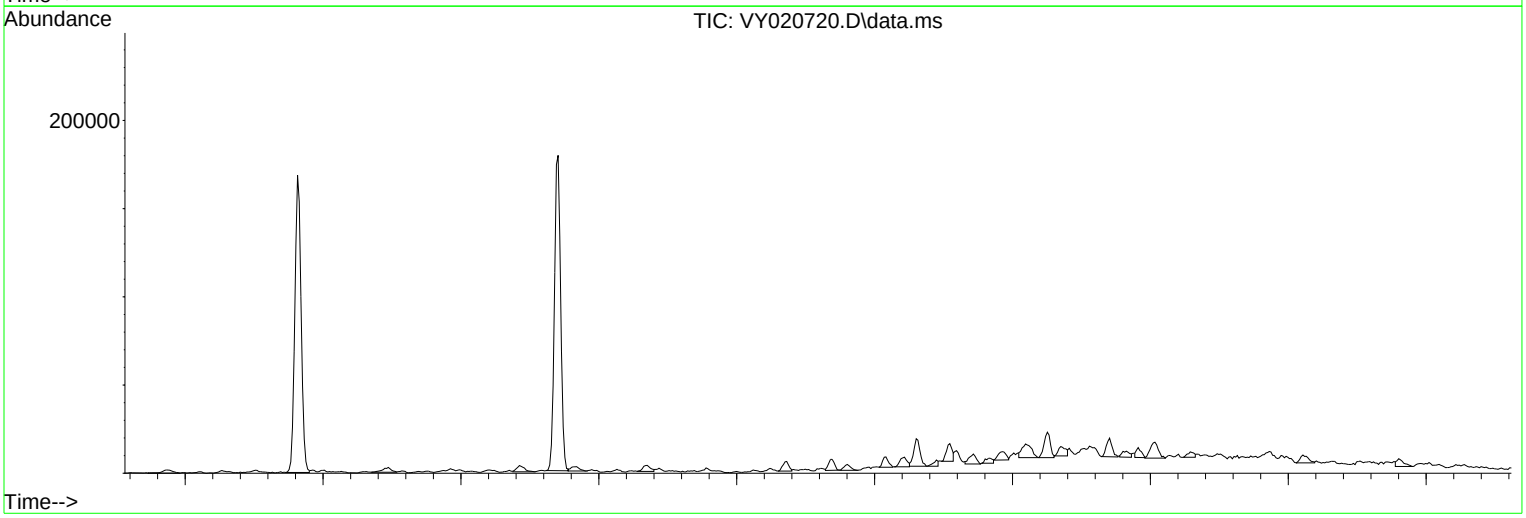
**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020720.D
Acq On : 26 Dec 2024 16:28
Operator : SY/MD
Sample : P5316-02
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020720.D
Acq On : 26 Dec 2024 16:28
Operator : SY/MD
Sample : P5316-02
Misc : 6.20g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 18 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 12/17/24 |
| Project: | CTO WE13 | Date Received: | 12/17/24 |
| Client Sample ID: | TT-304-IDWSO-20241217-3 | SDG No.: | P5316 |
| Lab Sample ID: | P5316-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 78.8 |
| Sample Wt/Vol: | 5.91 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020722.D | 1 | | 12/26/24 17:15 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-01-4 | Vinyl Chloride | 2.70 | U | 0.83 | 2.70 | 5.40 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.70 | U | 0.84 | 2.70 | 5.40 | ug/Kg |
| 67-64-1 | Acetone | 21.5 | U | 6.70 | 21.5 | 26.8 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.70 | U | 0.72 | 2.70 | 5.40 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.60 | U | 3.70 | 8.60 | 10.7 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.70 | U | 0.90 | 2.70 | 5.40 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.70 | U | 0.68 | 2.70 | 5.40 | ug/Kg |
| 78-93-3 | 2-Butanone | 21.5 | U | 6.10 | 21.5 | 26.8 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.70 | U | 0.93 | 2.70 | 5.40 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.70 | U | 0.65 | 2.70 | 5.40 | ug/Kg |
| 67-66-3 | Chloroform | 4.30 | U | 0.72 | 4.30 | 5.40 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.70 | U | 0.84 | 2.70 | 5.40 | ug/Kg |
| 71-43-2 | Benzene | 2.70 | U | 0.77 | 2.70 | 5.40 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.70 | U | 0.65 | 2.70 | 5.40 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.70 | U | 0.81 | 2.70 | 5.40 | ug/Kg |
| 108-88-3 | Toluene | 2.70 | U | 0.72 | 2.70 | 5.40 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.70 | U | 0.96 | 2.70 | 5.40 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.70 | U | 0.79 | 2.70 | 5.40 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.70 | U | 0.67 | 2.70 | 5.40 | ug/Kg |
| 1330-20-7 | Total Xylenes | 8.10 | U | 2.15 | 8.10 | 16.1 | ug/Kg |
| 103-65-1 | n-propylbenzene | 2.70 | U | 0.69 | 2.70 | 5.40 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 2.70 | U | 0.72 | 2.70 | 5.40 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.70 | U | 1.50 | 2.70 | 5.40 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 2.70 | U | 0.72 | 2.70 | 5.40 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.70 | U | 0.79 | 2.70 | 5.40 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.70 | U | 0.86 | 2.70 | 5.40 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 2.70 | U | 0.68 | 2.70 | 5.40 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.70 | U | 0.63 | 2.70 | 5.40 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 85.9 | U | 45.6 | 85.9 | 110 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.9 | | 71 - 136 | | 112% | SPK: 50 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 12/17/24 |
| Project: | CTO WE13 | Date Received: | 12/17/24 |
| Client Sample ID: | TT-304-IDWSO-20241217-3 | SDG No.: | P5316 |
| Lab Sample ID: | P5316-03 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 78.8 |
| Sample Wt/Vol: | 5.91 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020722.D | 1 | | 12/26/24 17:15 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 54.7 | | 78 - 119 | | 109% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.6 | | 85 - 116 | | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 49.2 | | 79 - 119 | | 98% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 95000 | 7.713 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 149000 | 8.616 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 128000 | 11.42 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 55500 | 13.353 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | N.D | | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020722.D
Acq On : 26 Dec 2024 17:15
Operator : SY/MD
Sample : P5316-03
Misc : 5.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Quant Time: Dec 27 00:34:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

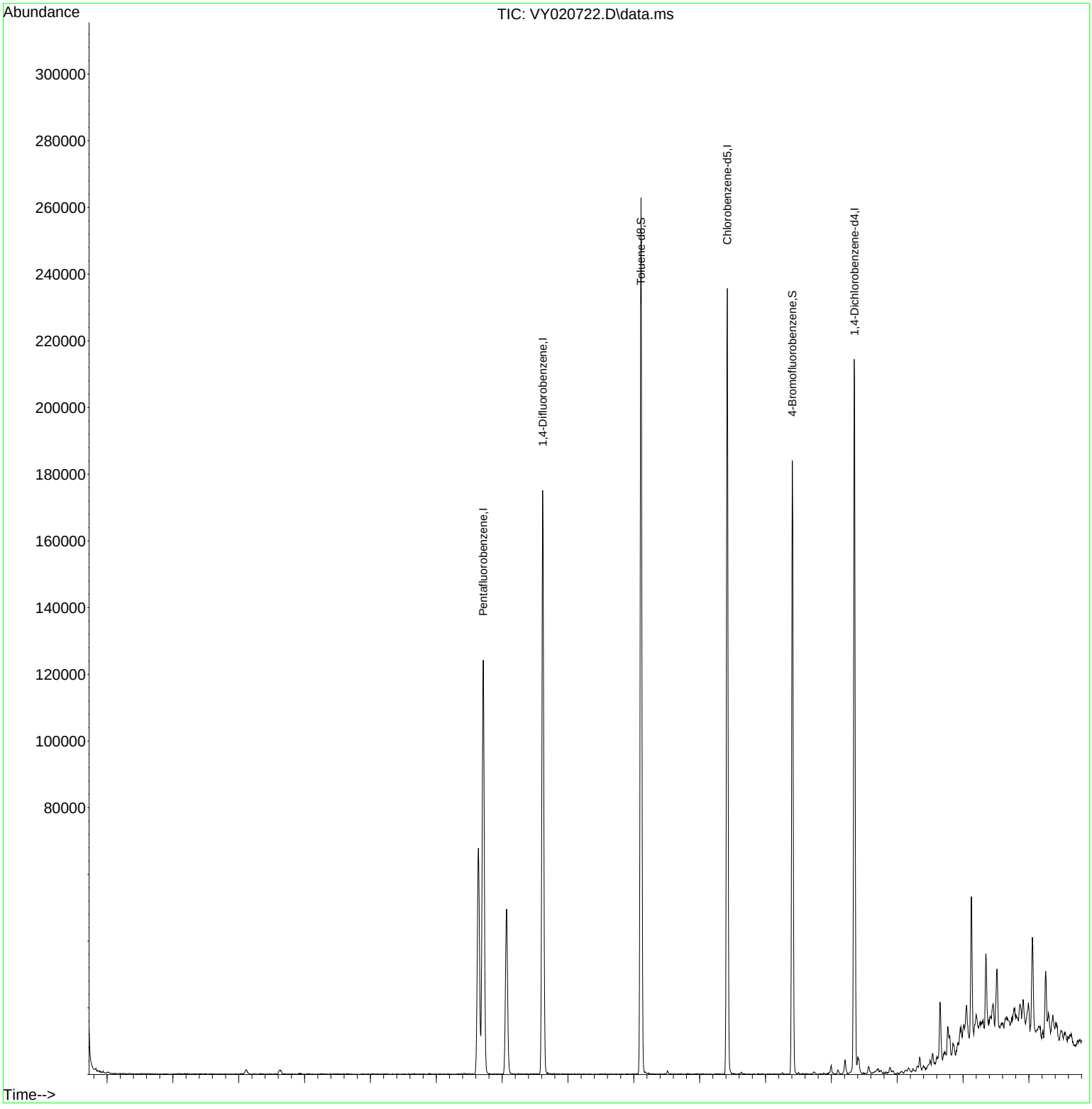
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 95048 | 50.000 | ug/l | -0.01 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 149227 | 50.000 | ug/l | -0.01 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 128468 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 55512 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 43540 | 55.926 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 111.860% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 44935 | 54.668 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 109.340% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 172379 | 52.643 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 105.280% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 53781 | 49.234 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 98.460% | | | |
| Target Compounds | | | | | | Qvalue |
| 17) Carbon Disulfide | 4.104 | 76 | 2504 | 1.571 | ug/l | 96 |

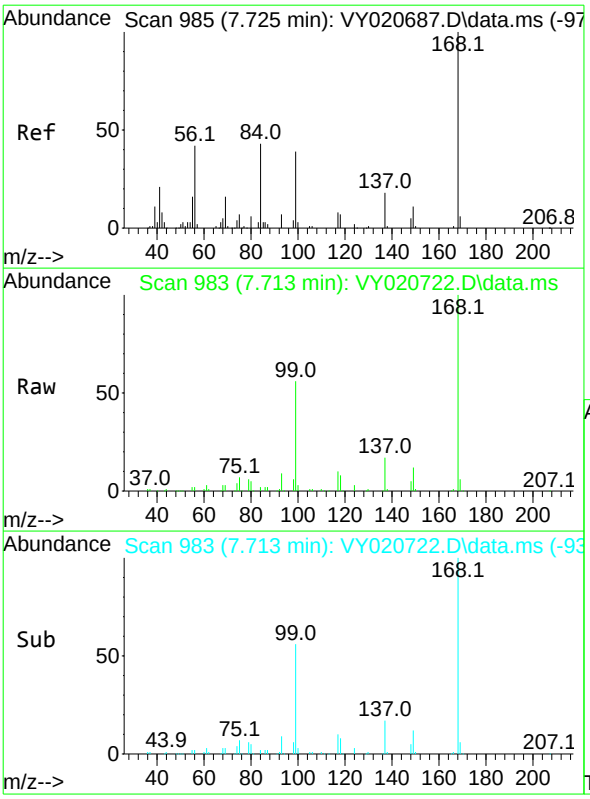
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020722.D
Acq On : 26 Dec 2024 17:15
Operator : SY/MD
Sample : P5316-03
Misc : 5.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Quant Time: Dec 27 00:34:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration



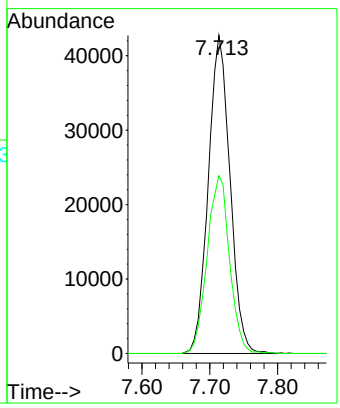


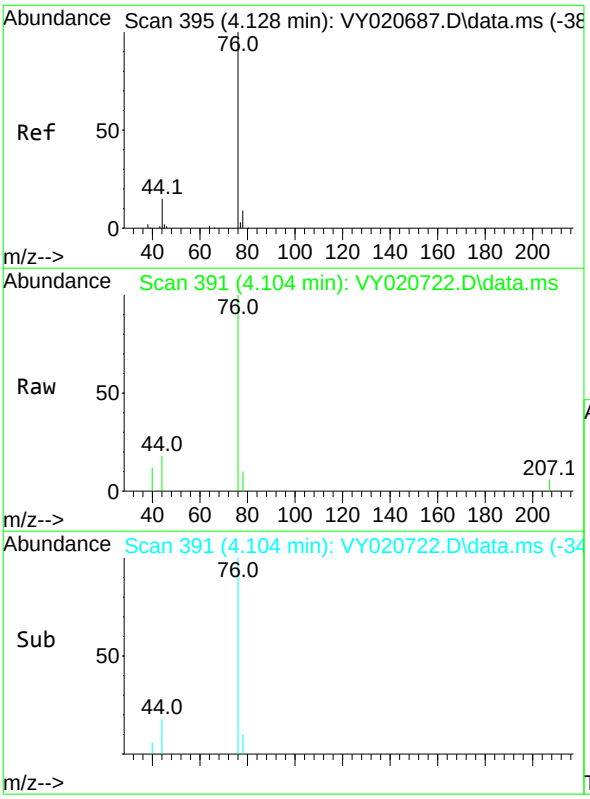

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.012 min
Lab File: VY020722.D
Acq: 26 Dec 2024 17:15

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Tgt Ion:168 Resp: 95048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.9 | 43.8 | 65.6 |

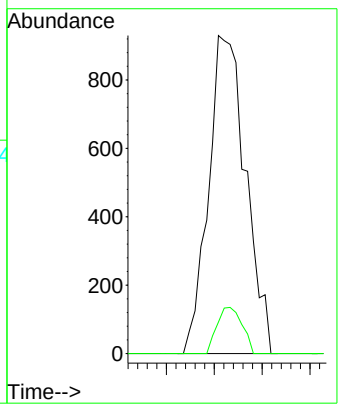


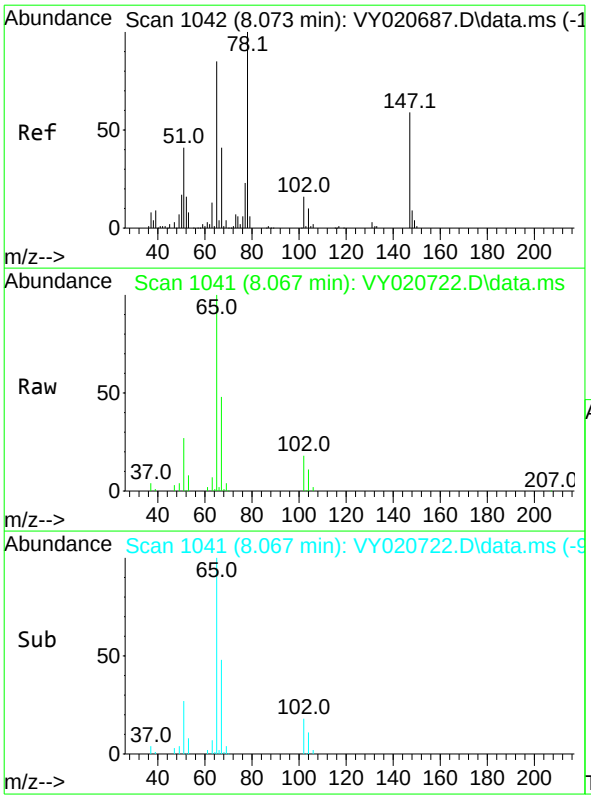




#17
Carbon Disulfide
Concen: 1.571 ug/l
RT: 4.104 min Scan# 391
Delta R.T. -0.024 min
Lab File: VY020722.D
Acq: 26 Dec 2024 17:15

Tgt Ion: 76 Resp: 2504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.9 | 6.9 | 10.3 |



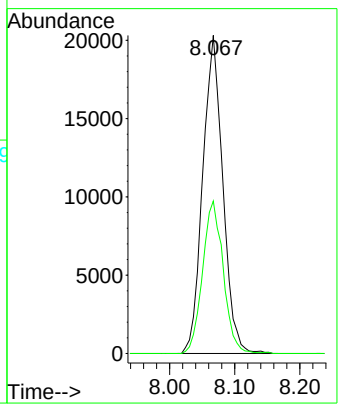


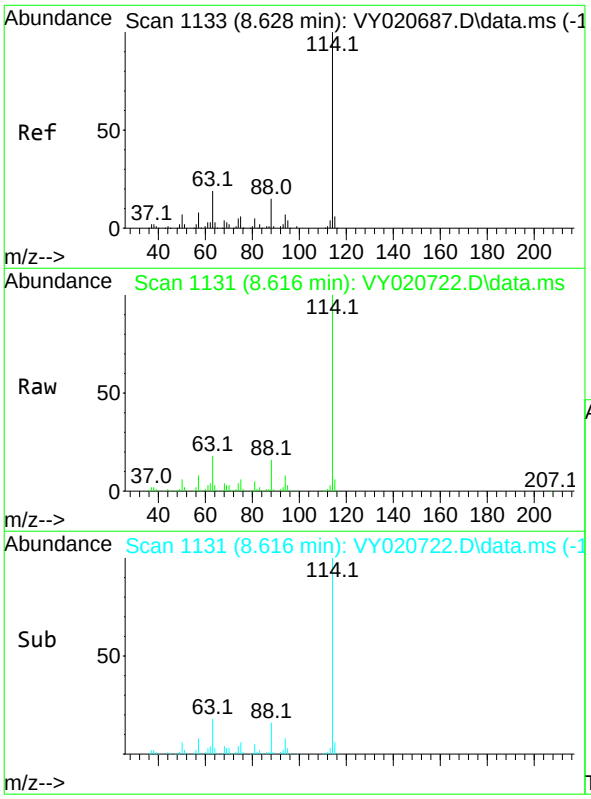

#33
1,2-Dichloroethane-d4
Concen: 55.926 ug/l
RT: 8.067 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020722.D
Acq: 26 Dec 2024 17:15

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Tgt Ion: 65 Resp: 43540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.2 | 0.0 | 98.0 |

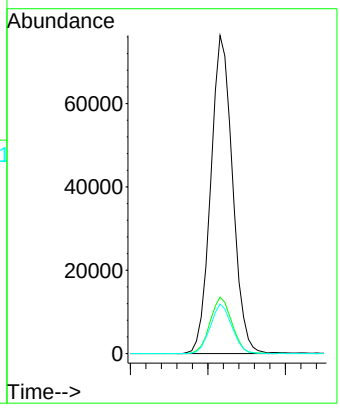


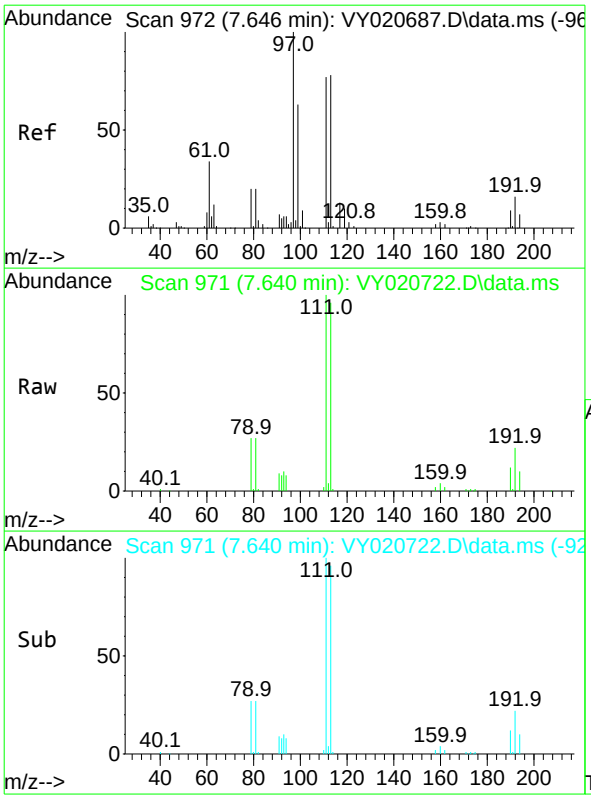




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.012 min
Lab File: VY020722.D
Acq: 26 Dec 2024 17:15

Tgt Ion:114 Resp: 149227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.8 | 0.0 | 38.4 |
| 88 | 15.6 | 0.0 | 30.4 |



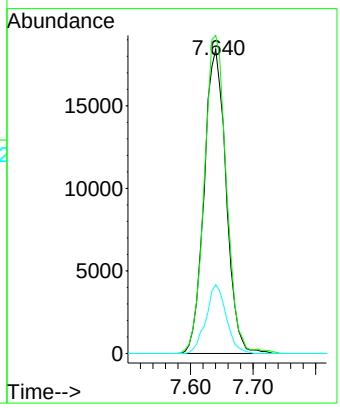


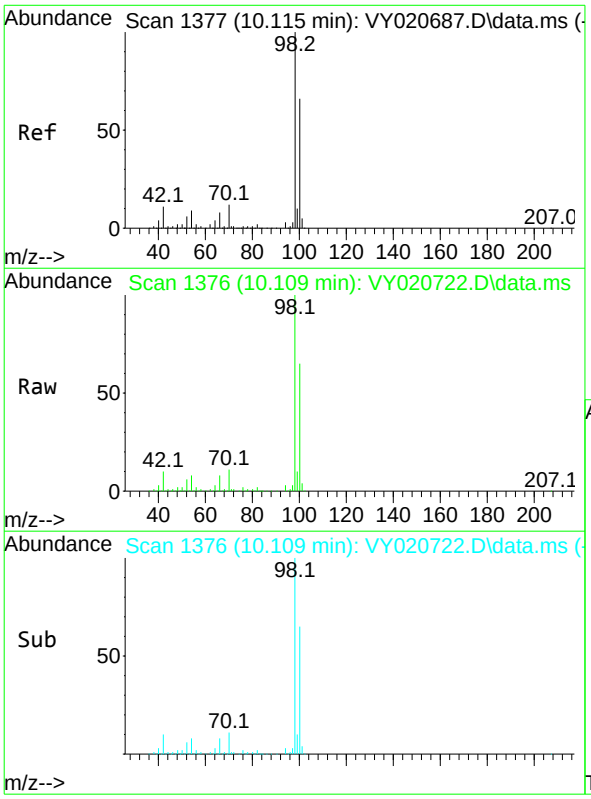

#35
Dibromofluoromethane
Concen: 54.668 ug/l
RT: 7.640 min Scan# 97
Delta R.T. -0.006 min
Lab File: VY020722.D
Acq: 26 Dec 2024 17:15

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Tgt Ion:113 Resp: 44935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 105.5 | 79.8 | 119.8 |
| 192 | 20.9 | 17.0 | 25.6 |

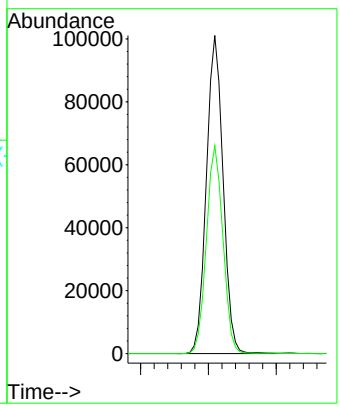


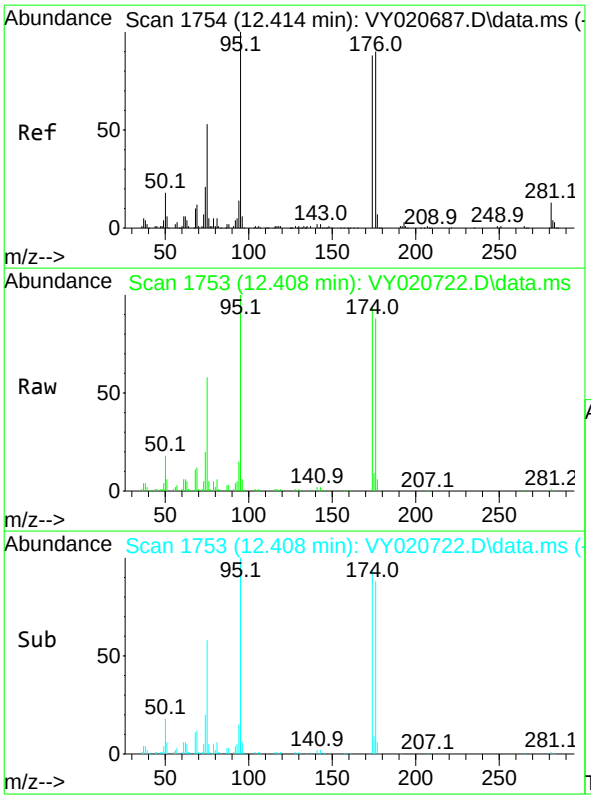




#50
Toluene-d8
Concen: 52.643 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020722.D
Acq: 26 Dec 2024 17:15

Tgt Ion: 98 Resp: 172379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.2 | 78.4 |



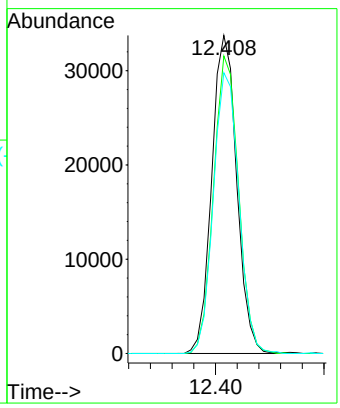


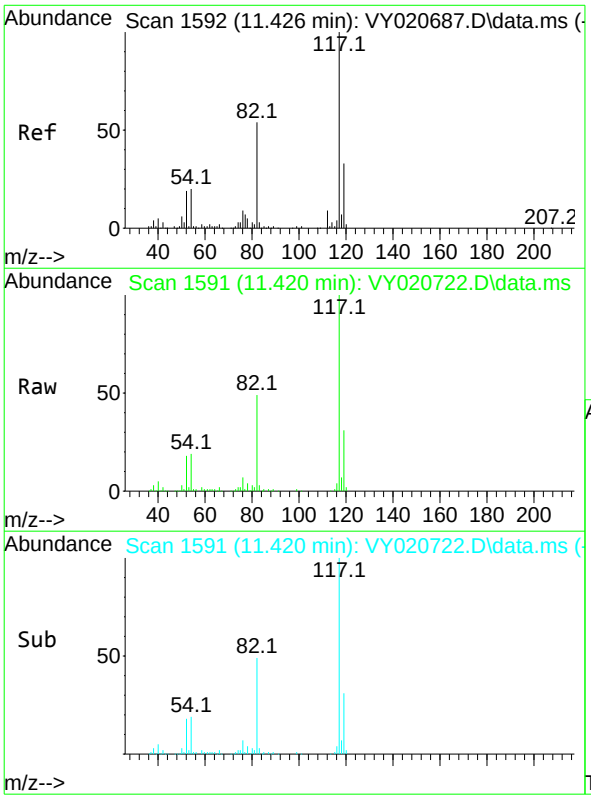

#62
4-Bromofluorobenzene
Concen: 49.234 ug/l
RT: 12.408 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020722.D
Acq: 26 Dec 2024 17:15

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Tgt Ion: 95 Resp: 53781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 93.6 | 0.0 | 179.2 |
| 176 | 90.3 | 0.0 | 179.8 |

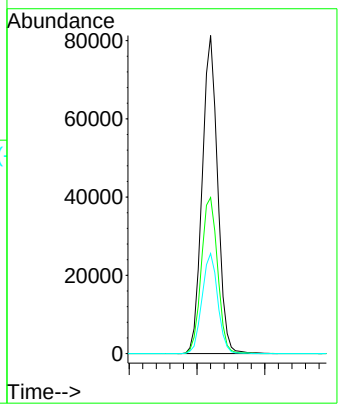


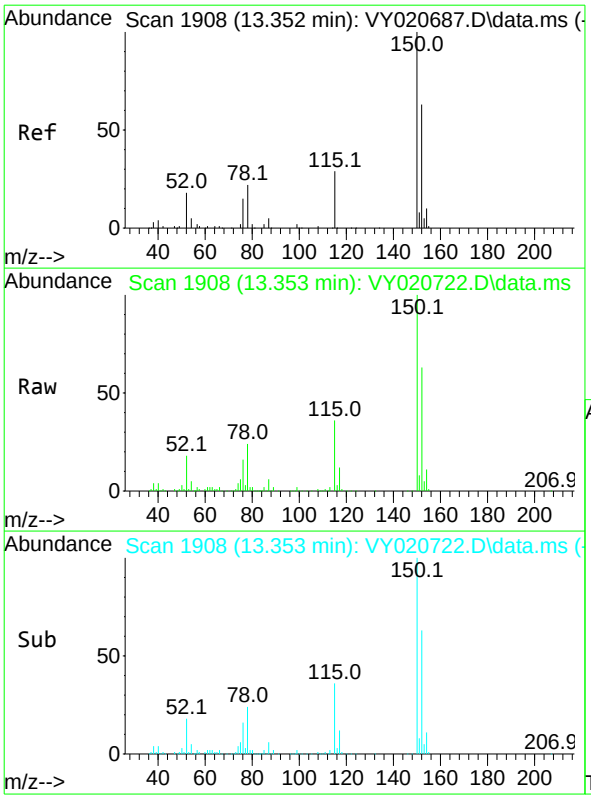




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1591
Delta R.T. -0.006 min
Lab File: VY020722.D
Acq: 26 Dec 2024 17:15

Tgt Ion:117 Resp: 128468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 49.1 | 43.4 | 65.2 |
| 119 | 31.5 | 26.6 | 39.8 |



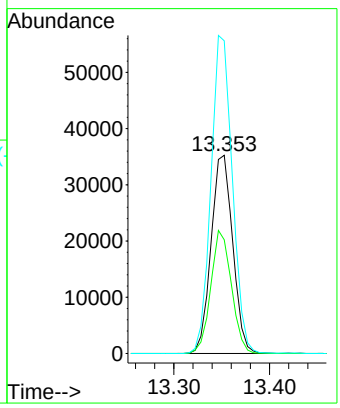



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 19
Delta R.T. 0.001 min
Lab File: VY020722.D
Acq: 26 Dec 2024 17:15

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Tgt Ion:152 Resp: 55512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.1 | 30.3 | 90.9 |
| 150 | 158.1 | 0.0 | 349.0 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020722.D
Acq On : 26 Dec 2024 17:15
Operator : SY/MD
Sample : P5316-03
Misc : 5.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Title : SW846 8260

Signal : TIC: VY020722.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.640 | 960 | 971 | 977 | rBV | 67841 | 162864 | 36.26% | 5.913% |
| 2 | 7.713 | 977 | 983 | 997 | rVB | 124162 | 278797 | 62.06% | 10.121% |
| 3 | 8.067 | 1033 | 1041 | 1051 | rBV | 49561 | 111496 | 24.82% | 4.048% |
| 4 | 8.616 | 1122 | 1131 | 1142 | rBV | 175139 | 340473 | 75.79% | 12.360% |
| 5 | 10.109 | 1369 | 1376 | 1385 | rBV | 262705 | 449218 | 100.00% | 16.308% |
| 6 | 11.420 | 1584 | 1591 | 1601 | rBV | 235728 | 386962 | 86.14% | 14.048% |
| 7 | 12.408 | 1747 | 1753 | 1764 | rBV | 183988 | 294838 | 65.63% | 10.704% |
| 8 | 13.206 | 1877 | 1884 | 1890 | rBV3 | 4233 | 7596 | 1.69% | 0.276% |
| 9 | 13.347 | 1892 | 1907 | 1914 | rVV | 214346 | 337940 | 75.23% | 12.269% |
| 10 | 13.401 | 1914 | 1916 | 1928 | rVB3 | 5079 | 10770 | 2.40% | 0.391% |
| 11 | 14.340 | 2067 | 2070 | 2075 | rVB4 | 3894 | 5877 | 1.31% | 0.213% |
| 12 | 14.499 | 2087 | 2096 | 2099 | rBV7 | 2613 | 5943 | 1.32% | 0.216% |
| 13 | 14.535 | 2099 | 2102 | 2106 | rBV4 | 3415 | 5009 | 1.12% | 0.182% |
| 14 | 14.651 | 2116 | 2121 | 2127 | rVB3 | 17286 | 28051 | 6.24% | 1.018% |
| 15 | 14.718 | 2127 | 2132 | 2136 | rBV7 | 2437 | 5374 | 1.20% | 0.195% |
| 16 | 14.767 | 2136 | 2140 | 2143 | rBV3 | 8529 | 13712 | 3.05% | 0.498% |
| 17 | 14.846 | 2150 | 2153 | 2159 | rVB9 | 3534 | 6475 | 1.44% | 0.235% |
| 18 | 14.919 | 2159 | 2165 | 2167 | rBV6 | 3792 | 6728 | 1.50% | 0.244% |
| 19 | 14.968 | 2167 | 2173 | 2176 | rVV6 | 6098 | 12650 | 2.82% | 0.459% |
| 20 | 15.011 | 2176 | 2180 | 2182 | rVV5 | 5650 | 10042 | 2.24% | 0.365% |
| 21 | 15.054 | 2183 | 2187 | 2193 | rVB9 | 10416 | 20273 | 4.51% | 0.736% |
| 22 | 15.127 | 2194 | 2199 | 2205 | rBV | 42447 | 64556 | 14.37% | 2.344% |
| 23 | 15.200 | 2205 | 2211 | 2217 | rBV10 | 5914 | 15467 | 3.44% | 0.562% |
| 24 | 15.346 | 2231 | 2235 | 2242 | rBV2 | 22397 | 35155 | 7.83% | 1.276% |
| 25 | 15.517 | 2257 | 2263 | 2268 | rVB4 | 17298 | 30495 | 6.79% | 1.107% |
| 26 | 15.913 | 2324 | 2328 | 2334 | rVB7 | 7396 | 12946 | 2.88% | 0.470% |
| 27 | 16.053 | 2346 | 2351 | 2359 | rVB2 | 28463 | 49876 | 11.10% | 1.811% |
| 28 | 16.255 | 2379 | 2384 | 2388 | rBV2 | 20082 | 35679 | 7.94% | 1.295% |
| 29 | 16.364 | 2397 | 2402 | 2407 | rBV9 | 4981 | 9266 | 2.06% | 0.336% |

Sum of corrected areas: 2754528

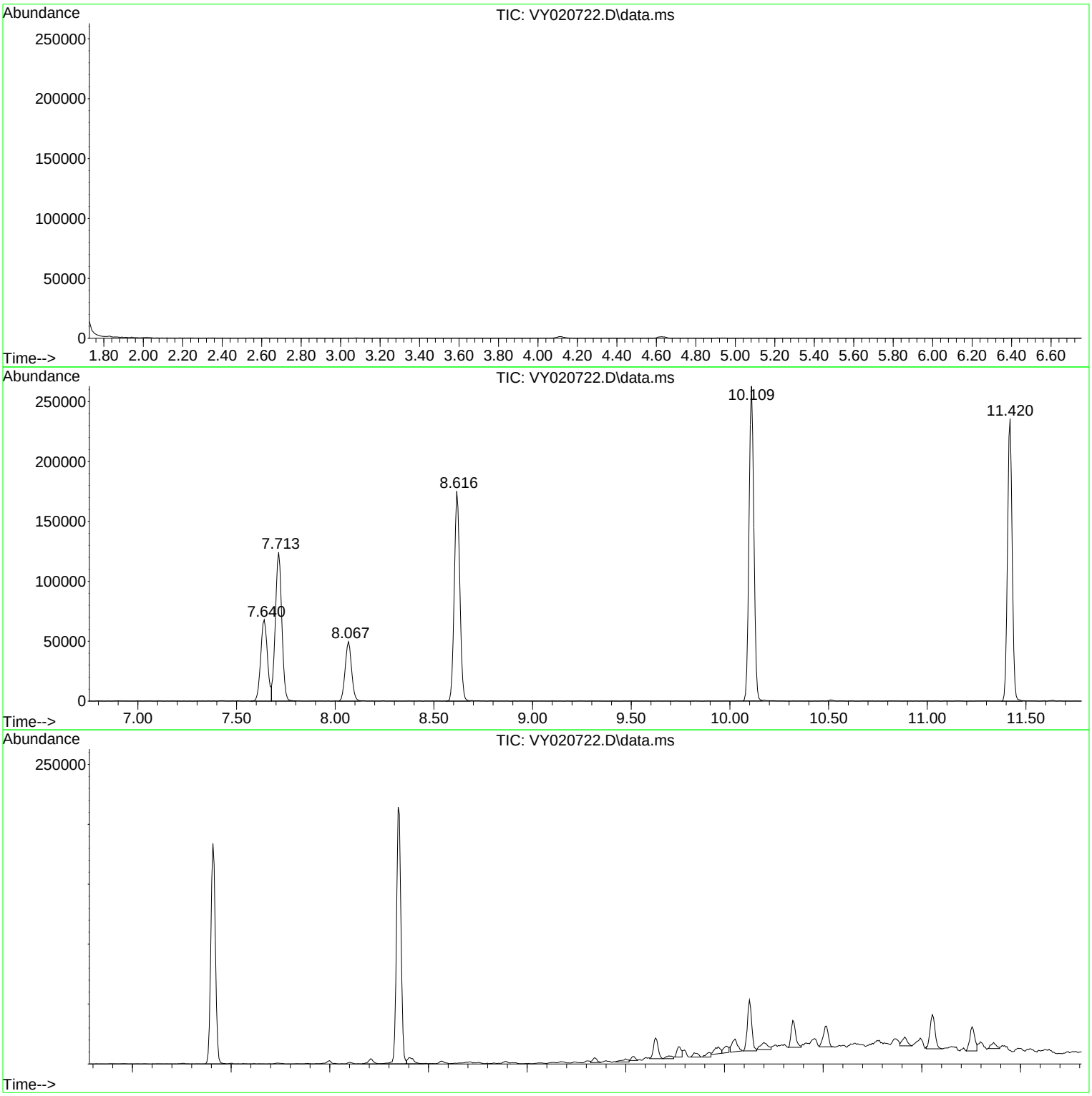
Sample Results: **VY020722.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020722.D
Acq On : 26 Dec 2024 17:15
Operator : SY/MD
Sample : P5316-03
Misc : 5.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020722.D
Acq On : 26 Dec 2024 17:15
Operator : SY/MD
Sample : P5316-03
Misc : 5.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020722.D
Acq On : 26 Dec 2024 17:15
Operator : SY/MD
Sample : P5316-03
Misc : 5.91g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 12/17/24 |
| Project: | CTO WE13 | Date Received: | 12/17/24 |
| Client Sample ID: | TT-304-IDWSO-20241217-4 | SDG No.: | P5316 |
| Lab Sample ID: | P5316-04 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 72.3 |
| Sample Wt/Vol: | 5.56 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020672.D | 1 | | 12/20/24 15:44 | VY122024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-01-4 | Vinyl Chloride | 3.10 | U | 0.96 | 3.10 | 6.20 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 3.10 | U | 0.97 | 3.10 | 6.20 | ug/Kg |
| 67-64-1 | Acetone | 24.9 | U | 7.80 | 24.9 | 31.1 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 3.10 | U | 0.83 | 3.10 | 6.20 | ug/Kg |
| 75-09-2 | Methylene Chloride | 10.0 | U | 4.20 | 10.0 | 12.4 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 3.10 | U | 1.00 | 3.10 | 6.20 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 3.10 | U | 0.78 | 3.10 | 6.20 | ug/Kg |
| 78-93-3 | 2-Butanone | 24.9 | U | 7.10 | 24.9 | 31.1 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 3.10 | U | 1.10 | 3.10 | 6.20 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 3.10 | U | 0.76 | 3.10 | 6.20 | ug/Kg |
| 67-66-3 | Chloroform | 5.00 | U | 0.83 | 5.00 | 6.20 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 3.10 | U | 0.97 | 3.10 | 6.20 | ug/Kg |
| 71-43-2 | Benzene | 3.10 | U | 0.90 | 3.10 | 6.20 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 3.10 | U | 0.76 | 3.10 | 6.20 | ug/Kg |
| 79-01-6 | Trichloroethene | 3.10 | U | 0.93 | 3.10 | 6.20 | ug/Kg |
| 108-88-3 | Toluene | 3.10 | U | 0.83 | 3.10 | 6.20 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 3.10 | U | 1.10 | 3.10 | 6.20 | ug/Kg |
| 108-90-7 | Chlorobenzene | 3.10 | U | 0.92 | 3.10 | 6.20 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 3.10 | U | 0.77 | 3.10 | 6.20 | ug/Kg |
| 1330-20-7 | Total Xylenes | 9.30 | U | 2.57 | 9.30 | 18.6 | ug/Kg |
| 103-65-1 | n-propylbenzene | 3.10 | U | 0.80 | 3.10 | 6.20 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 3.10 | U | 0.83 | 3.10 | 6.20 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.10 | U | 1.70 | 3.10 | 6.20 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 3.10 | U | 0.83 | 3.10 | 6.20 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 3.10 | U | 0.92 | 3.10 | 6.20 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 3.10 | U | 1.00 | 3.10 | 6.20 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 3.10 | U | 0.78 | 3.10 | 6.20 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 3.10 | U | 0.73 | 3.10 | 6.20 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 99.5 | U | 52.9 | 99.5 | 120 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 34.9 | * | 71 - 136 | | 70% | SPK: 50 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 12/17/24 |
| Project: | CTO WE13 | Date Received: | 12/17/24 |
| Client Sample ID: | TT-304-IDWSO-20241217-4 | SDG No.: | P5316 |
| Lab Sample ID: | P5316-04 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 72.3 |
| Sample Wt/Vol: | 5.56 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020672.D | 1 | | 12/20/24 15:44 | VY122024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 42.9 | | 78 - 119 | | 86% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 45.2 | | 85 - 116 | | 90% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 21.7 | * | 79 - 119 | | 43% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 21200 | 7.713 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 29900 | 8.616 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 18800 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 4330 | 13.347 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | N.D | | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020672.D
Acq On : 20 Dec 2024 15:44
Operator : SY/MD
Sample : P5316-04
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/24/2024
Supervised By :Mahesh Dadoda 12/24/2024

Quant Time: Dec 20 18:09:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 21219 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 29944 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 18784 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 4327 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 8111 | 34.902 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 69.800% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 9056 | 42.912 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 85.820% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 33418 | 45.241 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 90.480% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 6269 | 21.696 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 43.400% | | | |
| Target Compounds | | | | | | Qvalue |
| 20) Methylene Chloride | 4.622 | 84 | 717m | 2.481 | ug/l | |

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

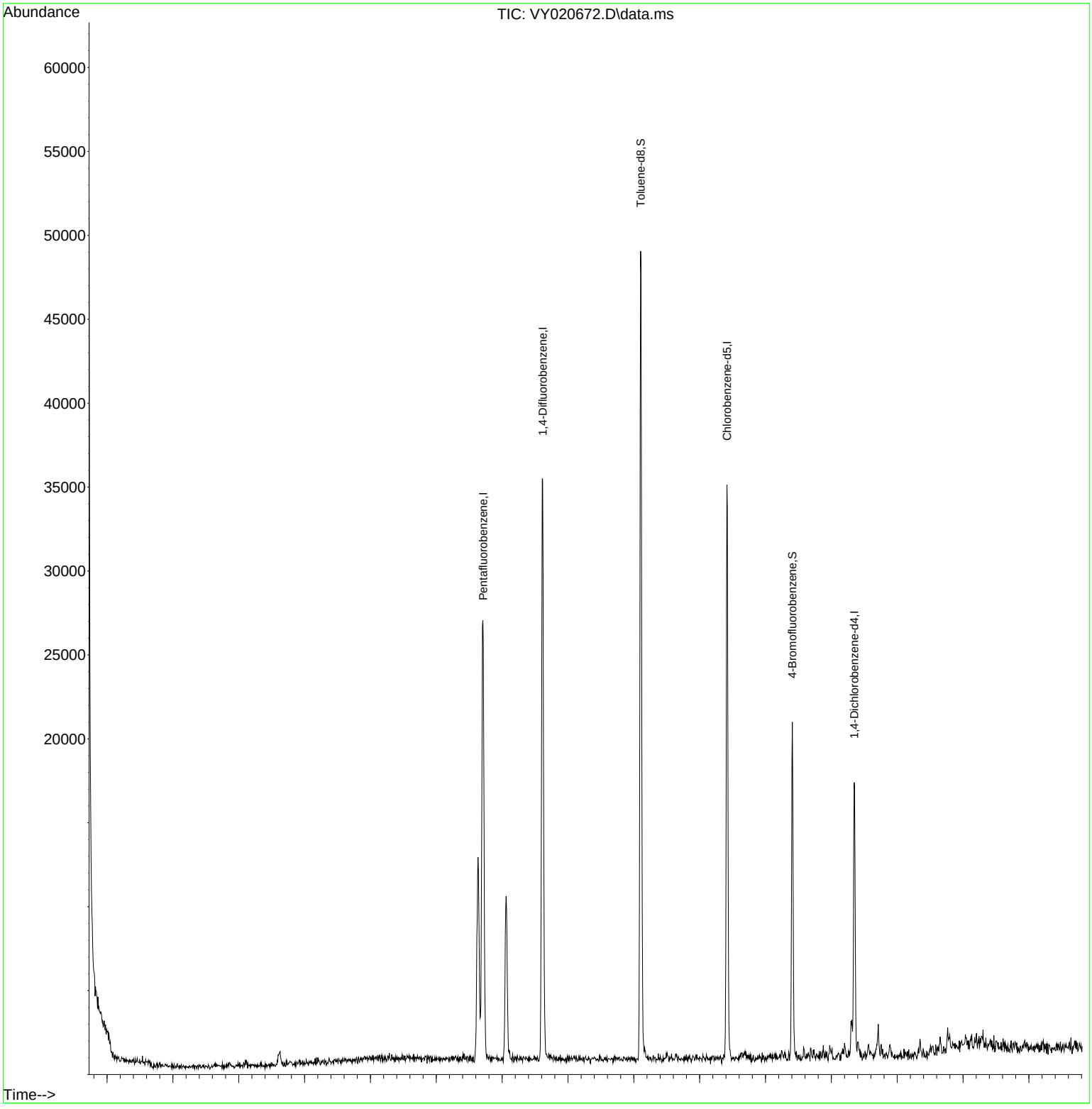
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020672.D
Acq On : 20 Dec 2024 15:44
Operator : SY/MD
Sample : P5316-04
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

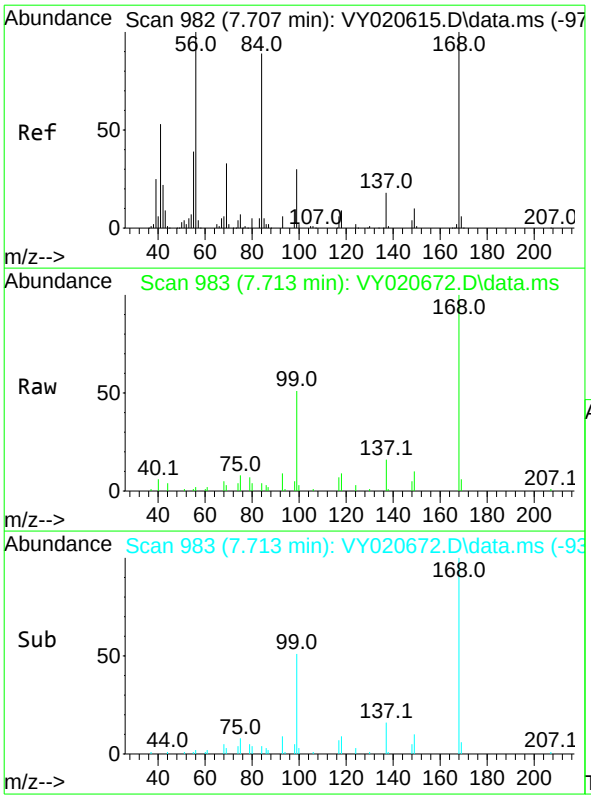
Quant Time: Dec 20 18:09:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/24/2024
Supervised By :Mahesh Dadoda 12/24/2024

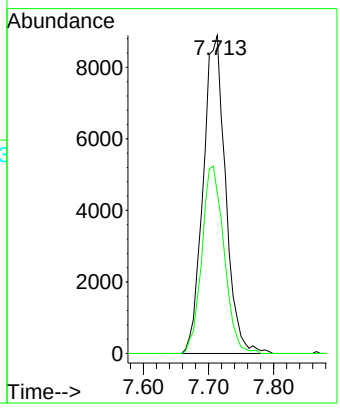





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion:168 Resp: 21219

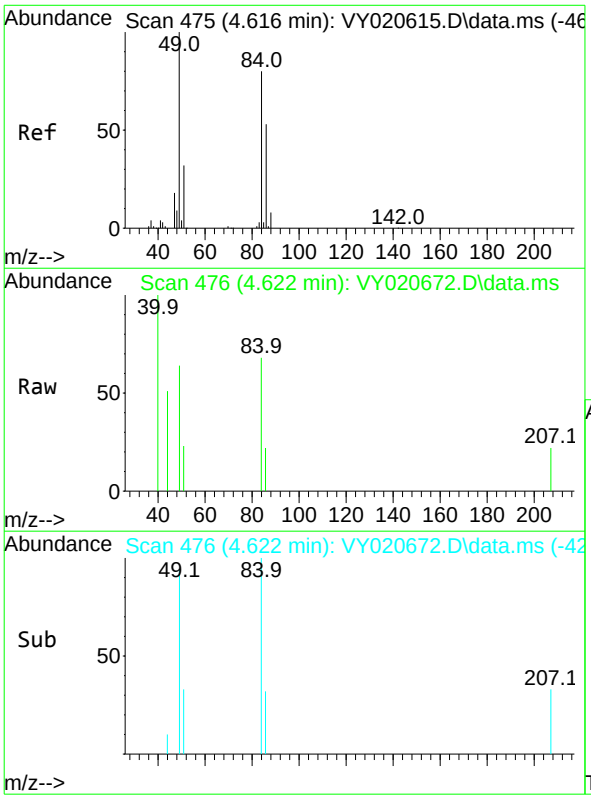
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 50.6 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

**Manual Integrations**
**APPROVED**

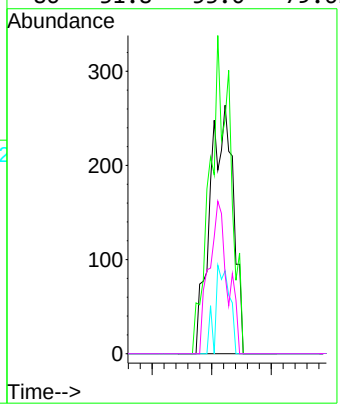
Reviewed By :Semsettin Yesilyurt 12/24/2024
Supervised By :Mahesh Dadoda 12/24/2024

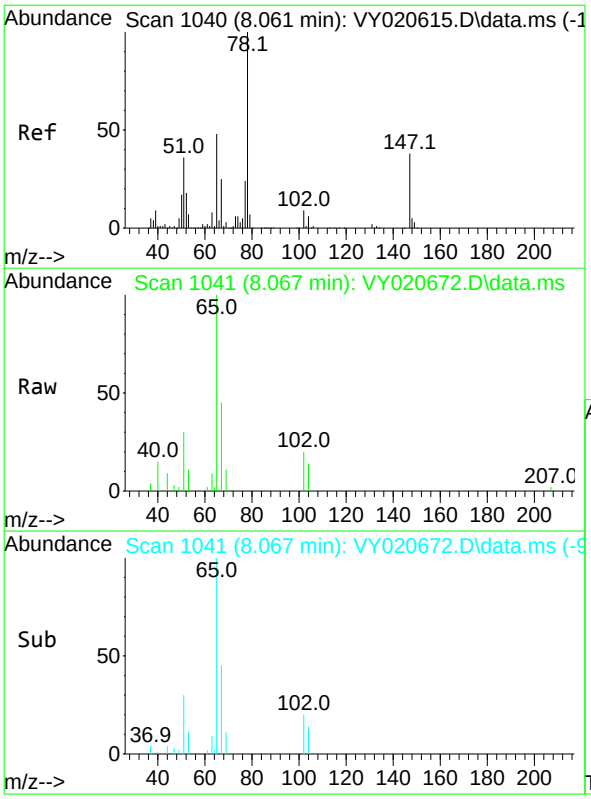



#20
Methylene Chloride
Concen: 2.481 ug/l m
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion: 84 Resp: 717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 94.3 | 100.7 | 151.1# |
| 51 | 33.3 | 32.2 | 48.2 |
| 86 | 31.8 | 53.0 | 79.6# |

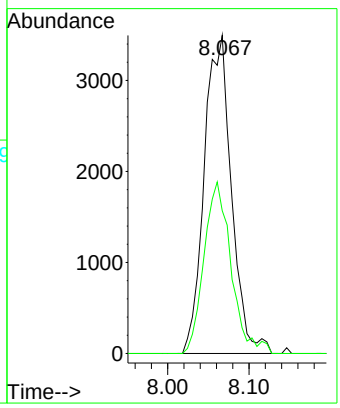





#33
1,2-Dichloroethane-d4
Concen: 34.902 ug/l
RT: 8.067 min Scan# 10
Delta R.T. 0.006 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion: 65 Resp: 8111

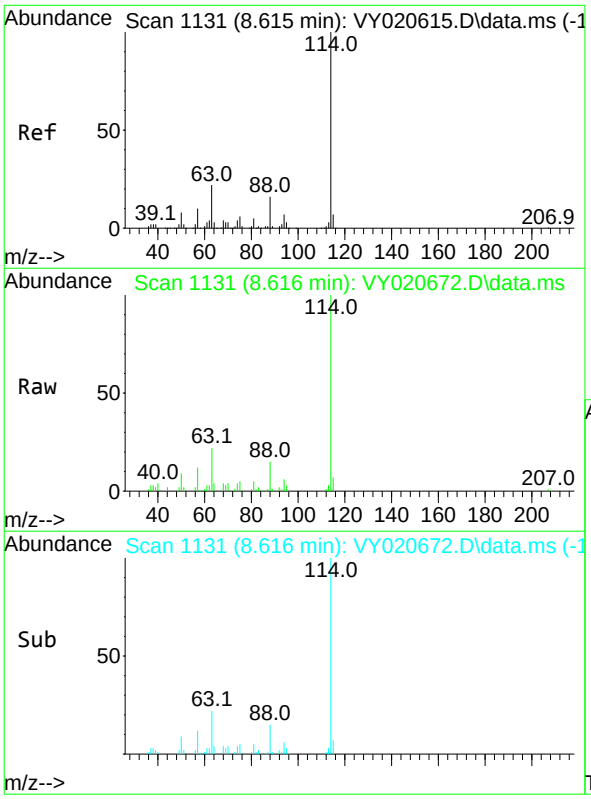
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 108.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

**Manual Integrations**
**APPROVED**

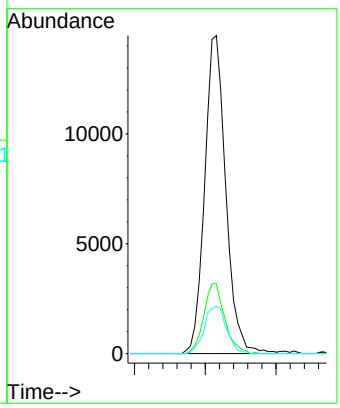
Reviewed By :Semsettin Yesilyurt 12/24/2024
Supervised By :Mahesh Dadoda 12/24/2024

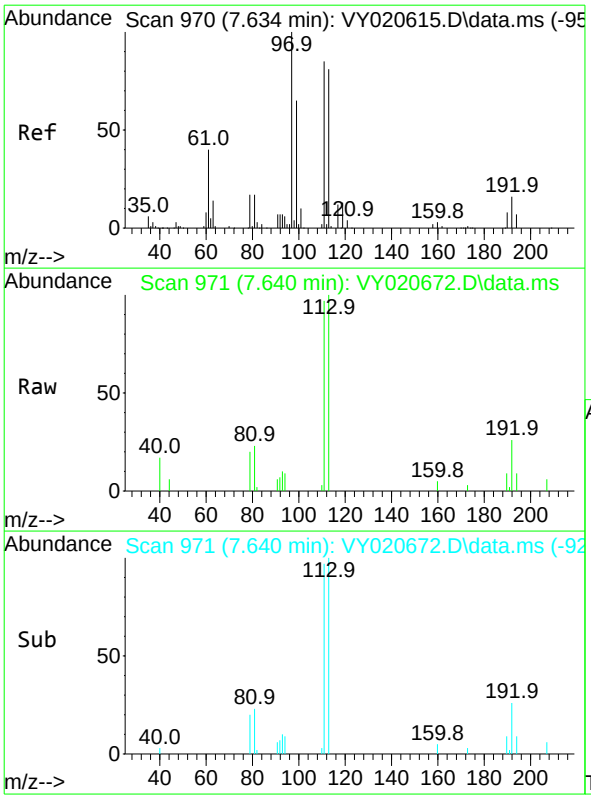



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion:114 Resp: 29944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.0 | 0.0 | 44.0 |
| 88 | 14.8 | 0.0 | 32.8 |

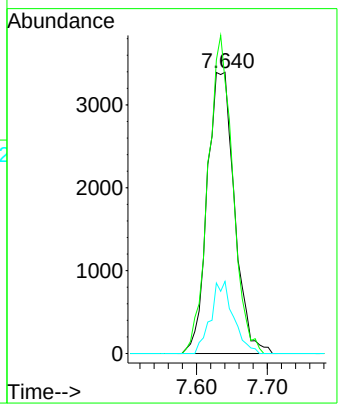





#35
Dibromofluoromethane
Concen: 42.912 ug/l
RT: 7.640 min Scan# 97
Delta R.T. 0.006 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion:113 Resp: 9056

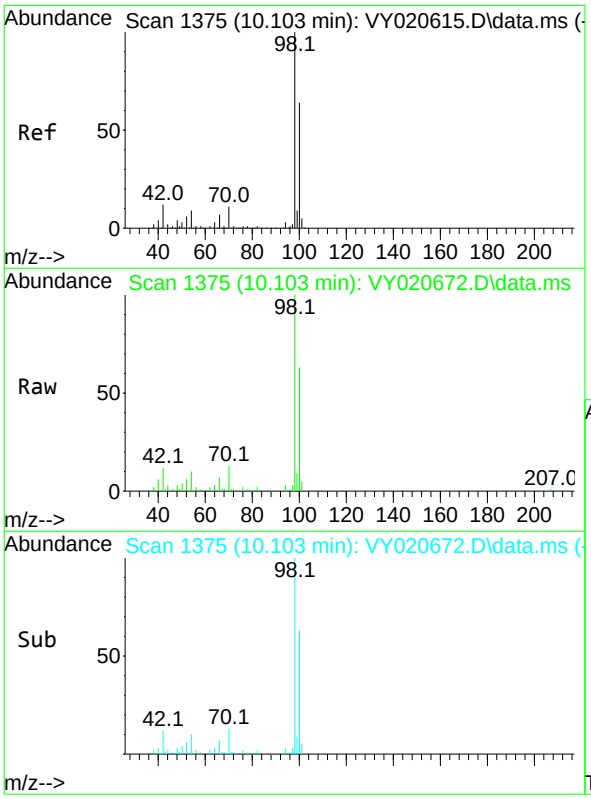
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 82.9 | 124.3 |
| 192 | 21.3 | 15.7 | 23.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

**Manual Integrations**
**APPROVED**

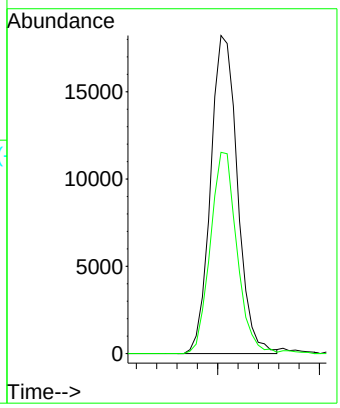
Reviewed By :Semsettin Yesilyurt 12/24/2024
Supervised By :Mahesh Dadoda 12/24/2024

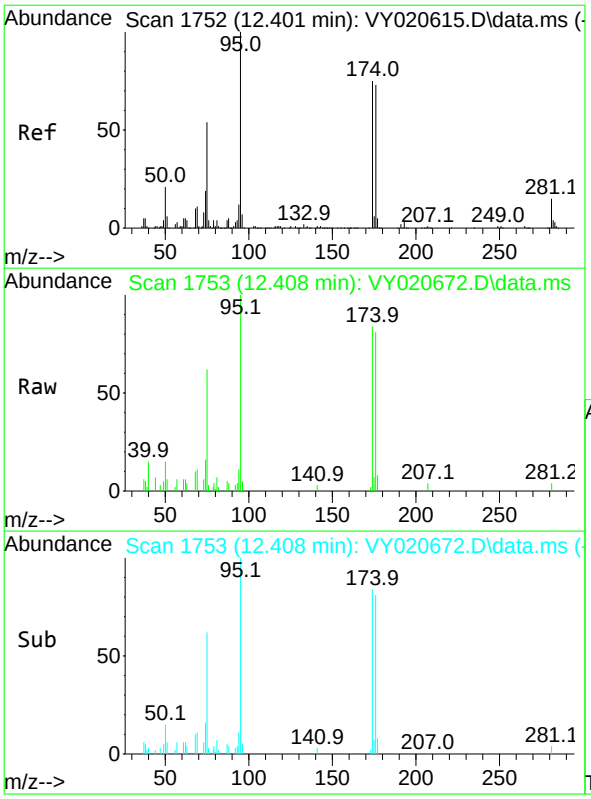



#50
Toluene-d8
Concen: 45.241 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion: 98 Resp: 33418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.2 | 52.1 | 78.1 |

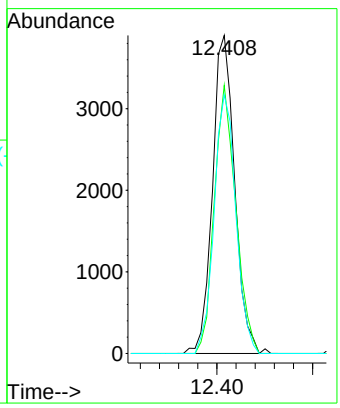





#62
4-Bromofluorobenzene
Concen: 21.696 ug/l
RT: 12.408 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion: 95 Resp: 6269

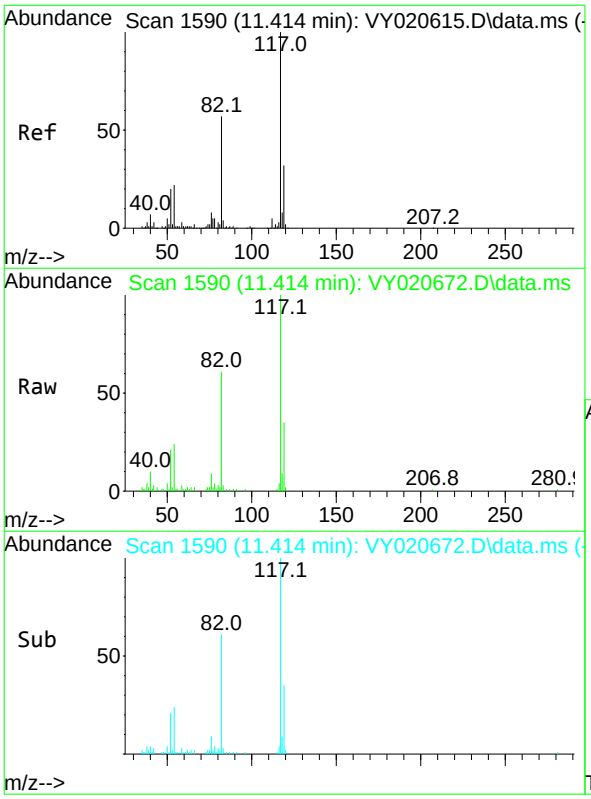
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.7 | 0.0 | 161.8 |
| 176 | 79.9 | 0.0 | 156.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

**Manual Integrations**
**APPROVED**

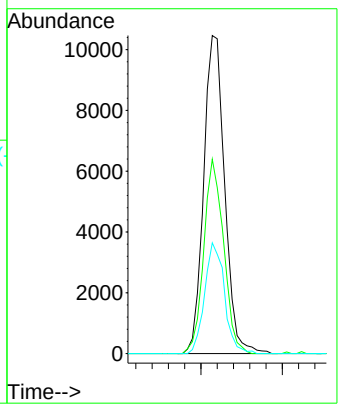
Reviewed By :Semsettin Yesilyurt 12/24/2024
Supervised By :Mahesh Dadoda 12/24/2024

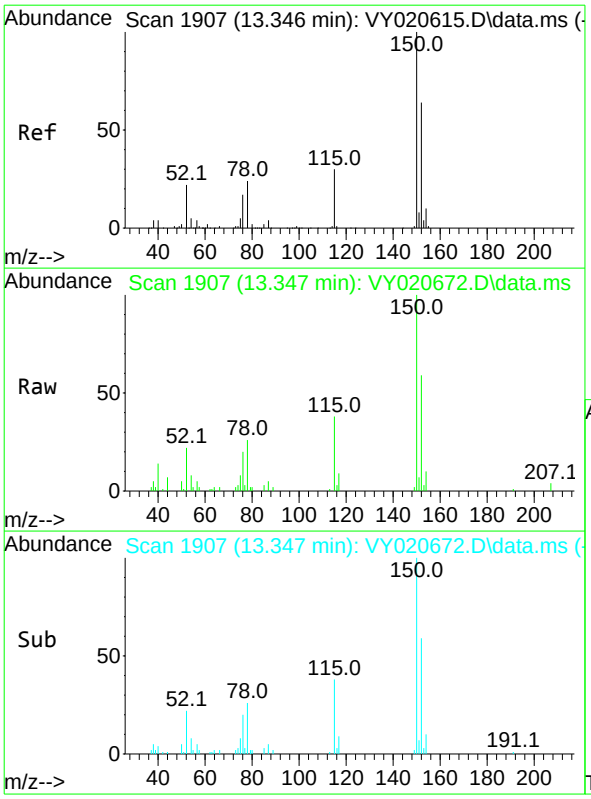



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion:117 Resp: 18784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.1 | 45.8 | 68.6 |
| 119 | 34.8 | 25.3 | 37.9 |

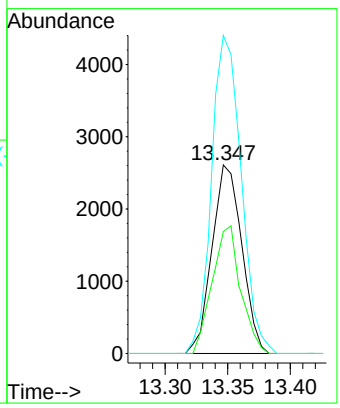





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion:152 Resp: 4327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.4 | 30.2 | 90.6 |
| 150 | 167.4 | 0.0 | 355.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 12/24/2024
Supervised By :Mahesh Dadoda 12/24/2024

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020672.D
Acq On : 20 Dec 2024 15:44
Operator : SY/MD
Sample : P5316-04
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260

Signal : TIC: VY020672.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 7.634 | 961 | 970 | 975 | rBV2 | 12225 | 29830 | 34.03% | 7.083% |
| 2 | 7.707 | 976 | 982 | 991 | rVB2 | 26090 | 61287 | 69.92% | 14.552% |
| 3 | 8.061 | 1033 | 1040 | 1046 | rBV2 | 9898 | 22429 | 25.59% | 5.325% |
| 4 | 8.610 | 1122 | 1130 | 1139 | rBV | 34680 | 71754 | 81.86% | 17.037% |
| 5 | 10.103 | 1369 | 1375 | 1384 | rBV | 48213 | 87656 | 100.00% | 20.813% |
| 6 | 11.201 | 1549 | 1555 | 1558 | rBV3 | 493 | 1228 | 1.40% | 0.292% |
| 7 | 11.414 | 1584 | 1590 | 1601 | rVB | 34313 | 59963 | 68.41% | 14.237% |
| 8 | 12.408 | 1746 | 1753 | 1760 | rBV2 | 20165 | 33641 | 38.38% | 7.988% |
| 9 | 12.688 | 1797 | 1799 | 1804 | rBV3 | 788 | 1168 | 1.33% | 0.277% |
| 10 | 13.109 | 1864 | 1868 | 1872 | rVB5 | 479 | 930 | 1.06% | 0.221% |
| 11 | 13.200 | 1881 | 1883 | 1891 | rVB6 | 840 | 1144 | 1.31% | 0.272% |
| 12 | 13.310 | 1896 | 1901 | 1903 | rVV3 | 2251 | 4033 | 4.60% | 0.958% |
| 13 | 13.347 | 1903 | 1907 | 1914 | rVV2 | 16387 | 28276 | 32.26% | 6.714% |
| 14 | 13.401 | 1914 | 1916 | 1923 | rVB5 | 950 | 1813 | 2.07% | 0.430% |
| 15 | 13.566 | 1938 | 1943 | 1946 | rBV4 | 731 | 1128 | 1.29% | 0.268% |
| 16 | 13.712 | 1958 | 1967 | 1972 | rBV4 | 1936 | 3457 | 3.94% | 0.821% |
| 17 | 13.889 | 1990 | 1996 | 2000 | rVV6 | 797 | 1532 | 1.75% | 0.364% |
| 18 | 14.346 | 2068 | 2071 | 2076 | rVV6 | 1130 | 1676 | 1.91% | 0.398% |
| 19 | 14.541 | 2099 | 2103 | 2109 | rVV5 | 531 | 933 | 1.06% | 0.222% |
| 20 | 14.651 | 2118 | 2121 | 2126 | rVB5 | 998 | 1484 | 1.69% | 0.352% |
| 21 | 14.767 | 2135 | 2140 | 2142 | rBV5 | 1517 | 1992 | 2.27% | 0.473% |
| 22 | 15.121 | 2194 | 2198 | 2199 | rBV4 | 769 | 898 | 1.02% | 0.213% |
| 23 | 15.206 | 2209 | 2212 | 2214 | rVB4 | 909 | 890 | 1.02% | 0.211% |
| 24 | 16.218 | 2374 | 2378 | 2380 | rVB4 | 709 | 936 | 1.07% | 0.222% |
| 25 | 16.303 | 2390 | 2392 | 2397 | rBV4 | 601 | 1088 | 1.24% | 0.258% |

Sum of corrected areas: 421166

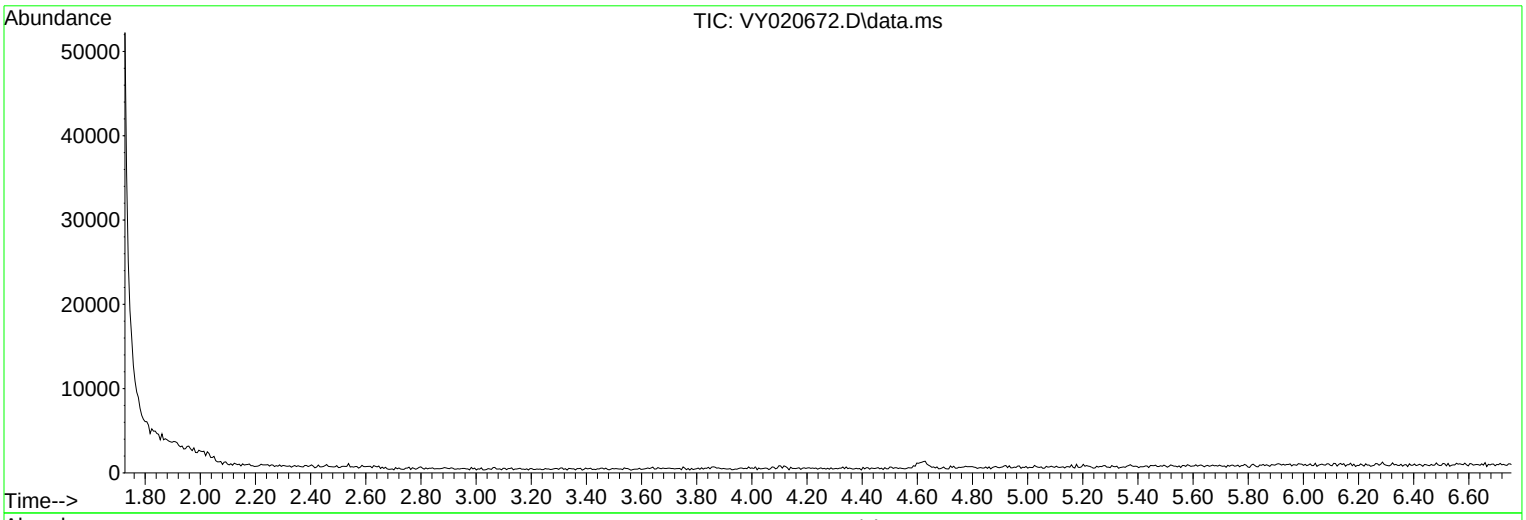
Sample Results: **VY020672.D**

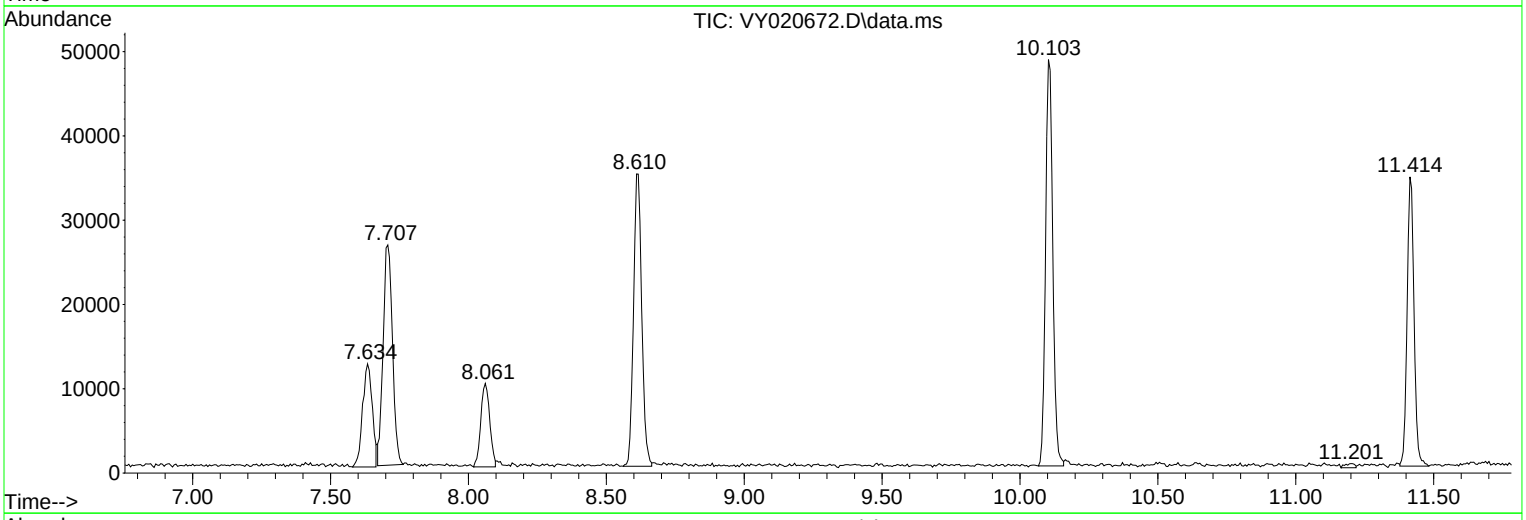
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020672.D
Acq On : 20 Dec 2024 15:44
Operator : SY/MD
Sample : P5316-04
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

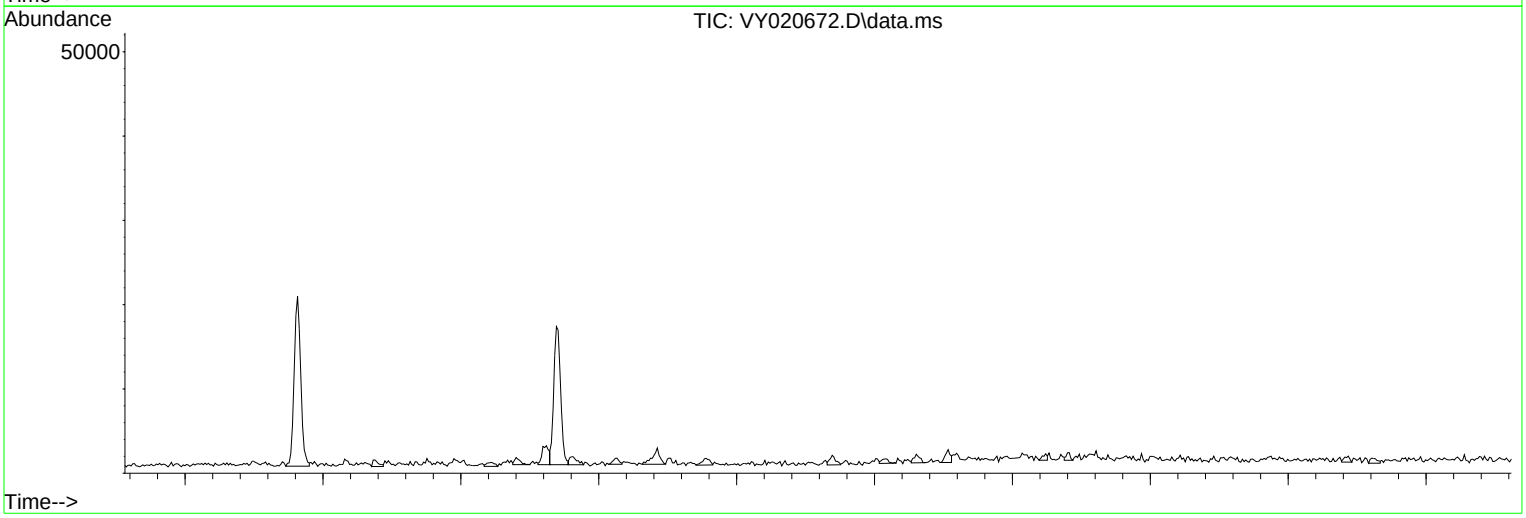
**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020672.D
Acq On : 20 Dec 2024 15:44
Operator : SY/MD
Sample : P5316-04
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020672.D
Acq On : 20 Dec 2024 15:44
Operator : SY/MD
Sample : P5316-04
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 12/17/24 |
| Project: | CTO WE13 | Date Received: | 12/17/24 |
| Client Sample ID: | TT-304-IDWSO-20241217-4RE | SDG No.: | P5316 |
| Lab Sample ID: | P5316-04RE | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 72.3 |
| Sample Wt/Vol: | 5.36 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020675.D | 1 | | 12/20/24 16:52 | VY122024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-01-4 | Vinyl Chloride | 3.20 | U | 0.99 | 3.20 | 6.50 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 3.20 | U | 1.00 | 3.20 | 6.50 | ug/Kg |
| 67-64-1 | Acetone | 25.8 | U | 8.10 | 25.8 | 32.3 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 3.20 | U | 0.86 | 3.20 | 6.50 | ug/Kg |
| 75-09-2 | Methylene Chloride | 10.3 | U | 4.40 | 10.3 | 12.9 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 3.20 | U | 1.10 | 3.20 | 6.50 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 3.20 | U | 0.81 | 3.20 | 6.50 | ug/Kg |
| 78-93-3 | 2-Butanone | 25.8 | U | 7.30 | 25.8 | 32.3 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 3.20 | U | 1.10 | 3.20 | 6.50 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 3.20 | U | 0.79 | 3.20 | 6.50 | ug/Kg |
| 67-66-3 | Chloroform | 5.20 | U | 0.86 | 5.20 | 6.50 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 3.20 | U | 1.00 | 3.20 | 6.50 | ug/Kg |
| 71-43-2 | Benzene | 3.20 | U | 0.93 | 3.20 | 6.50 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 3.20 | U | 0.79 | 3.20 | 6.50 | ug/Kg |
| 79-01-6 | Trichloroethene | 3.20 | U | 0.97 | 3.20 | 6.50 | ug/Kg |
| 108-88-3 | Toluene | 3.20 | U | 0.86 | 3.20 | 6.50 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 3.20 | U | 1.10 | 3.20 | 6.50 | ug/Kg |
| 108-90-7 | Chlorobenzene | 3.20 | U | 0.95 | 3.20 | 6.50 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 3.20 | U | 0.80 | 3.20 | 6.50 | ug/Kg |
| 1330-20-7 | Total Xylenes | 9.70 | U | 2.60 | 9.70 | 19.4 | ug/Kg |
| 103-65-1 | n-propylbenzene | 3.20 | U | 0.83 | 3.20 | 6.50 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 3.20 | U | 0.86 | 3.20 | 6.50 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 3.20 | U | 1.80 | 3.20 | 6.50 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 3.20 | U | 0.86 | 3.20 | 6.50 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 3.20 | U | 0.95 | 3.20 | 6.50 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 3.20 | U | 1.00 | 3.20 | 6.50 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 3.20 | U | 0.81 | 3.20 | 6.50 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 3.20 | U | 0.76 | 3.20 | 6.50 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 100 | U | 54.8 | 100 | 130 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 50.8 | | 71 - 136 | | 102% | SPK: 50 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 12/17/24 |
| Project: | CTO WE13 | Date Received: | 12/17/24 |
| Client Sample ID: | TT-304-IDWSO-20241217-4RE | SDG No.: | P5316 |
| Lab Sample ID: | P5316-04RE | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 72.3 |
| Sample Wt/Vol: | 5.36 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020675.D | 1 | | 12/20/24 16:52 | VY122024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 45.9 | | 78 - 119 | | 92% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.7 | | 85 - 116 | | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 35.3 | * | 79 - 119 | | 71% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 164000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 291000 | 8.616 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 242000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 90500 | 13.346 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020675.D
Acq On : 20 Dec 2024 16:52
Operator : SY/MD
Sample : P5316-04RE
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4RE

Quant Time: Dec 20 18:11:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

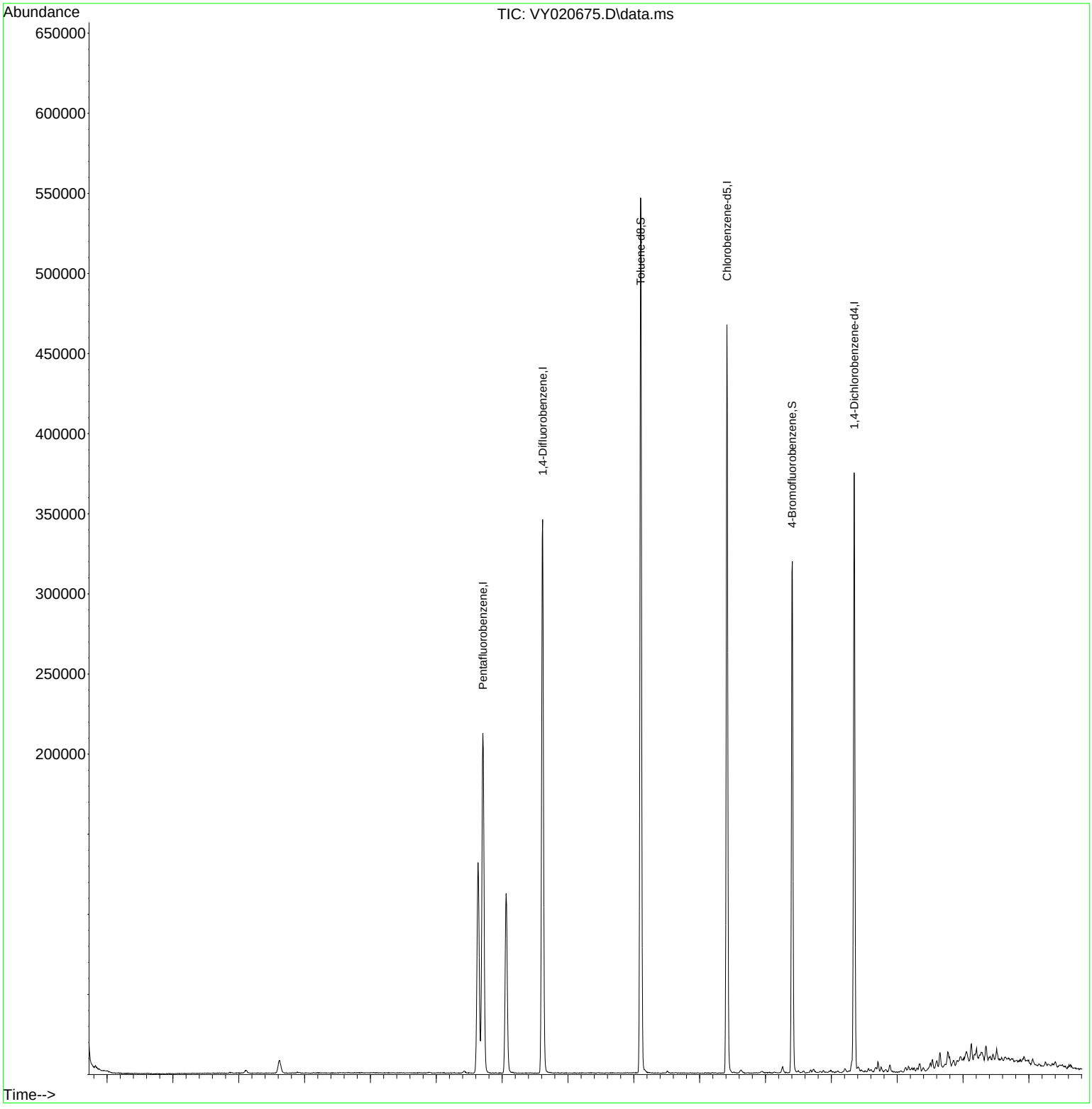
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 164449 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 291183 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 241631 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 90485 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 91496 | 50.801 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 101.600% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 94126 | 45.866 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 91.740% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 349801 | 48.699 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.400% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 99228 | 35.315 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 70.640% | | | |
| Target Compounds | | | | | | Qvalue |
| 20) Methylene Chloride | 4.616 | 84 | 6156 | 2.749 | ug/l | 89 |

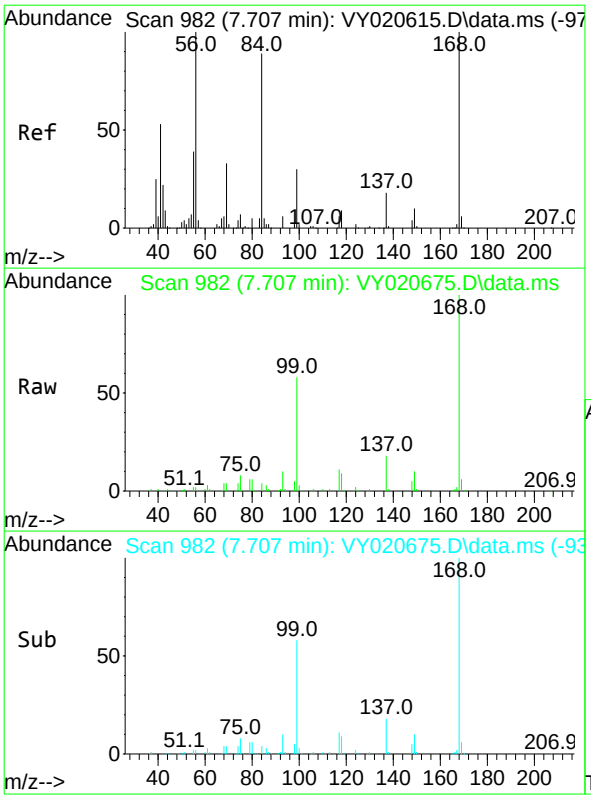
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020675.D
Acq On : 20 Dec 2024 16:52
Operator : SY/MD
Sample : P5316-04RE
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/B
ALS Vial : 13 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4RE

Quant Time: Dec 20 18:11:23 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



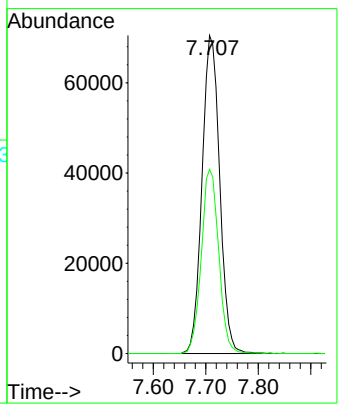


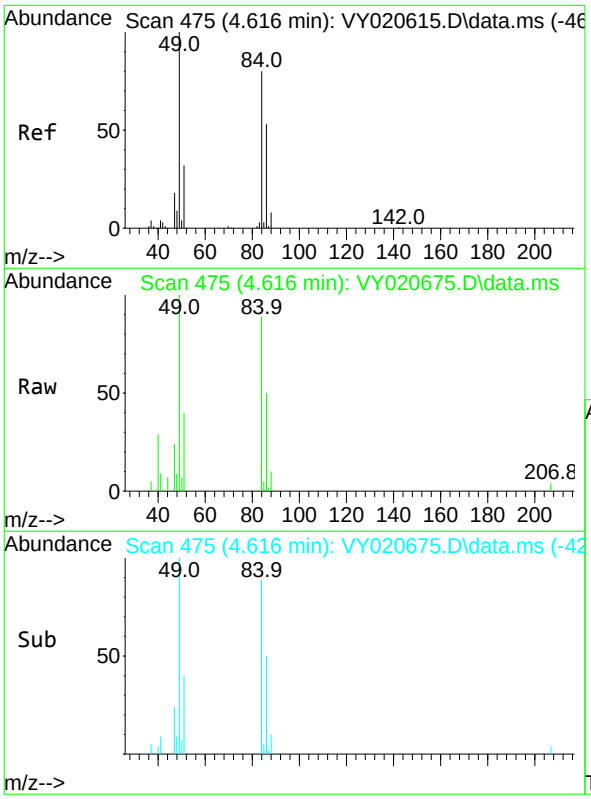

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020675.D
Acq: 20 Dec 2024 16:52

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4RE

Tgt Ion:168 Resp: 164449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.9 | 47.0 | 70.6 |

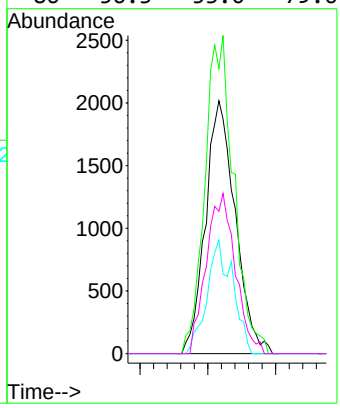


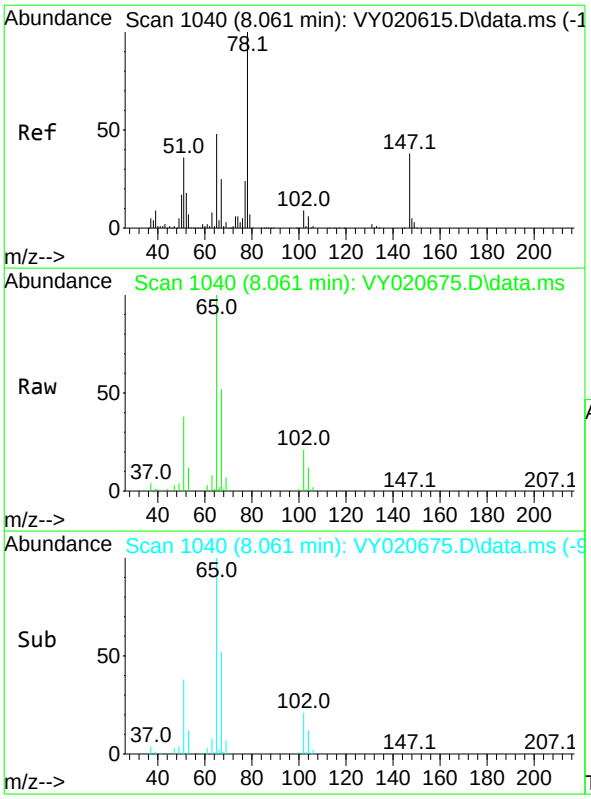




#20
Methylene Chloride
Concen: 2.749 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020675.D
Acq: 20 Dec 2024 16:52

Tgt Ion: 84 Resp: 6156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 112.8 | 100.7 | 151.1 |
| 51 | 45.0 | 32.2 | 48.2 |
| 86 | 56.3 | 53.0 | 79.6 |



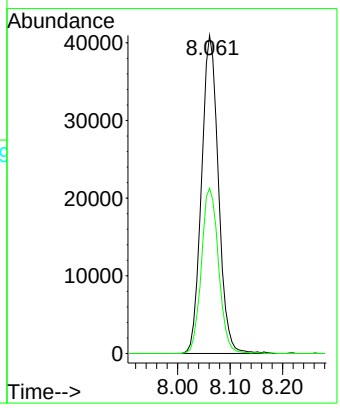


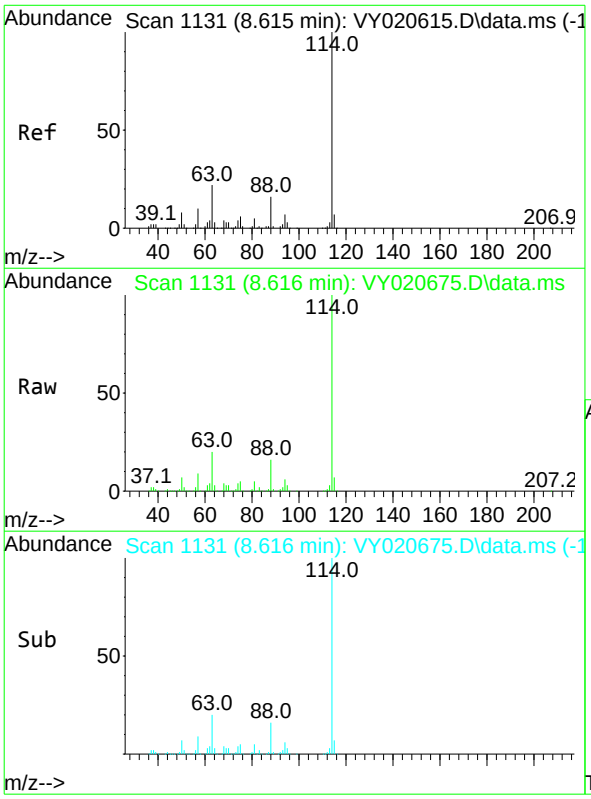

#33
1,2-Dichloroethane-d4
Concen: 50.801 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020675.D
Acq: 20 Dec 2024 16:52

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4RE

Tgt Ion: 65 Resp: 91496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.6 | 0.0 | 108.0 |

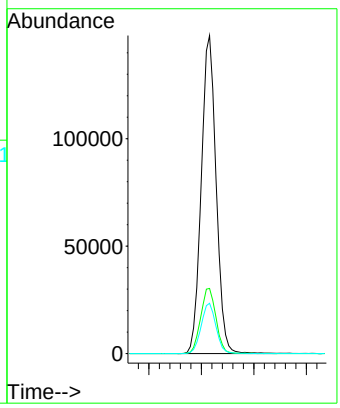


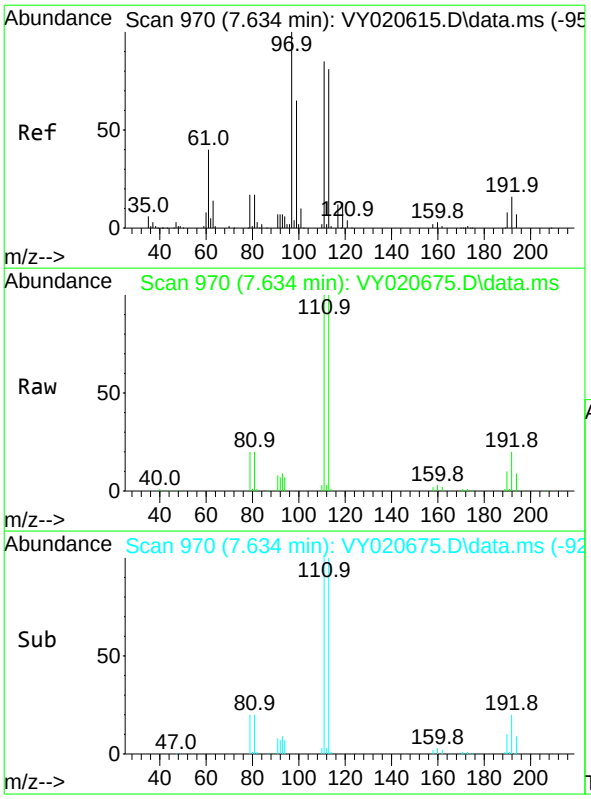




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020675.D
Acq: 20 Dec 2024 16:52

Tgt Ion:114 Resp: 291183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.5 | 0.0 | 44.0 |
| 88 | 15.8 | 0.0 | 32.8 |



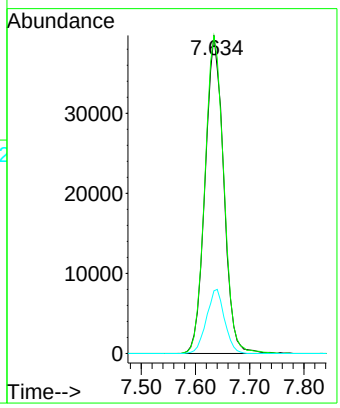


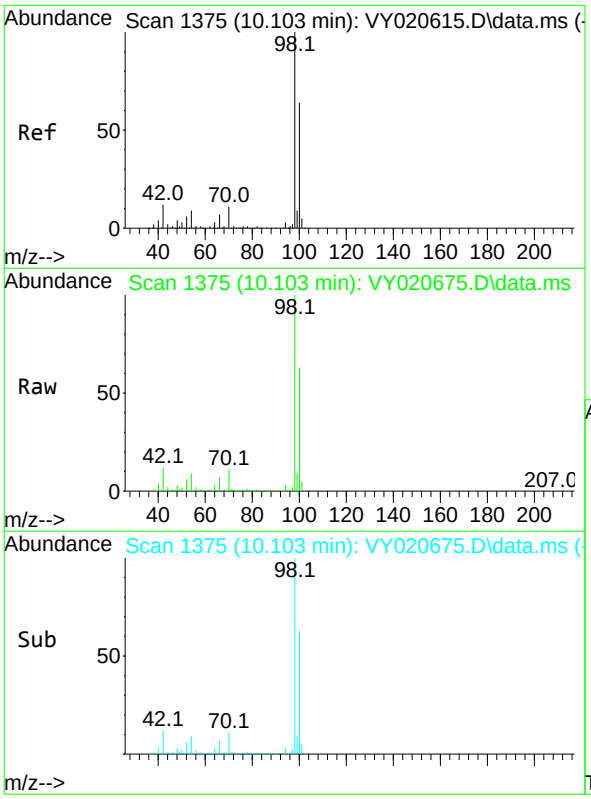

#35
Dibromofluoromethane
Concen: 45.866 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020675.D
Acq: 20 Dec 2024 16:52

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4RE

Tgt Ion:113 Resp: 94126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 82.9 | 124.3 |
| 192 | 19.7 | 15.7 | 23.5 |

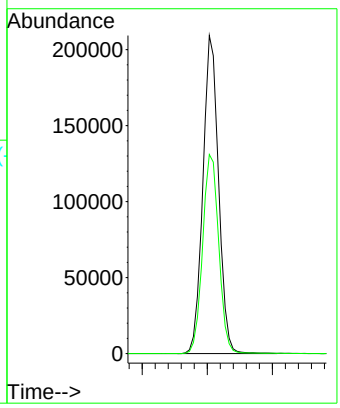


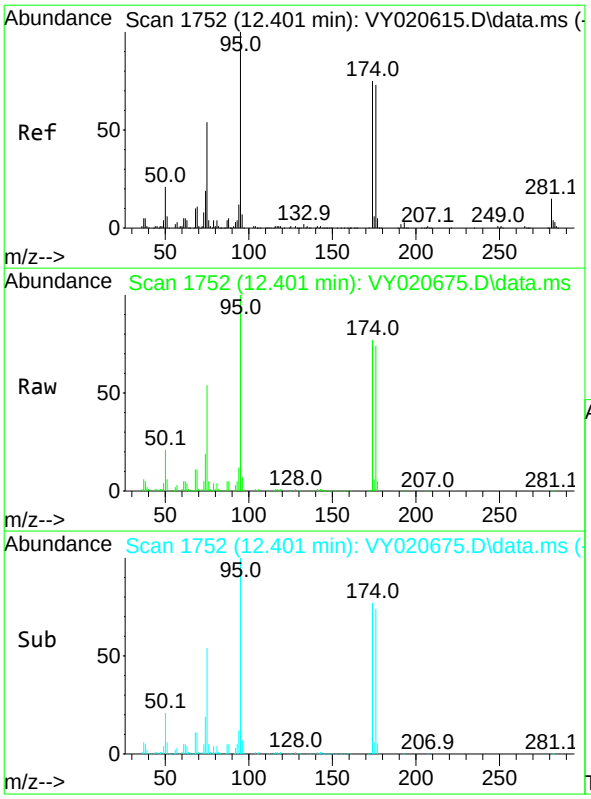




#50
Toluene-d8
Concen: 48.699 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020675.D
Acq: 20 Dec 2024 16:52

Tgt Ion: 98 Resp: 349801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.4 | 52.1 | 78.1 |



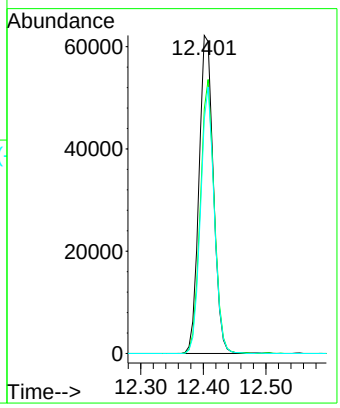


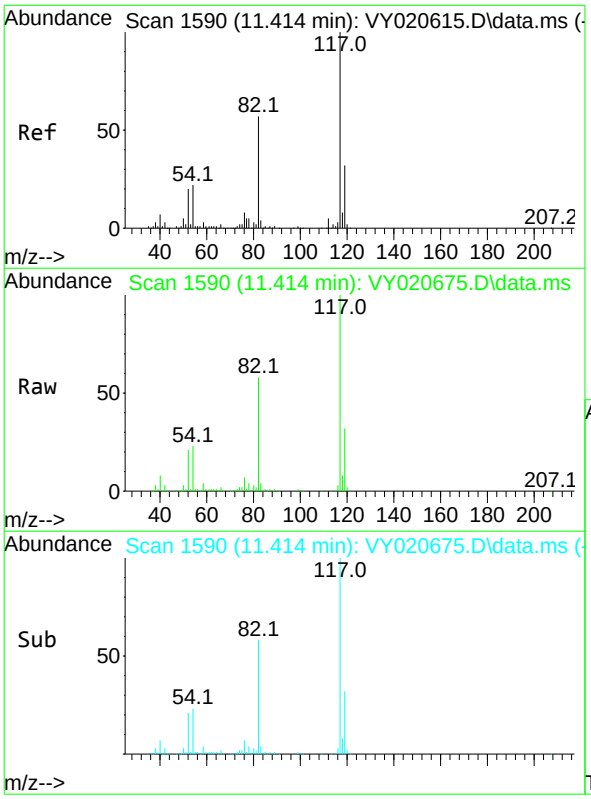

#62
4-Bromofluorobenzene
Concen: 35.315 ug/l
RT: 12.401 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020675.D
Acq: 20 Dec 2024 16:52

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4RE

Tgt Ion: 95 Resp: 99228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 83.5 | 0.0 | 161.8 |
| 176 | 79.5 | 0.0 | 156.6 |

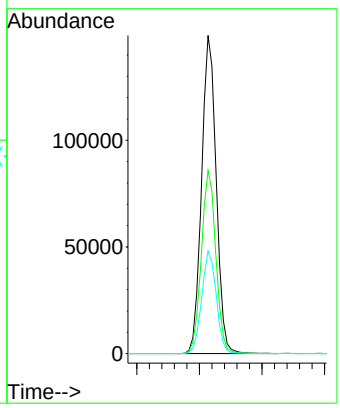


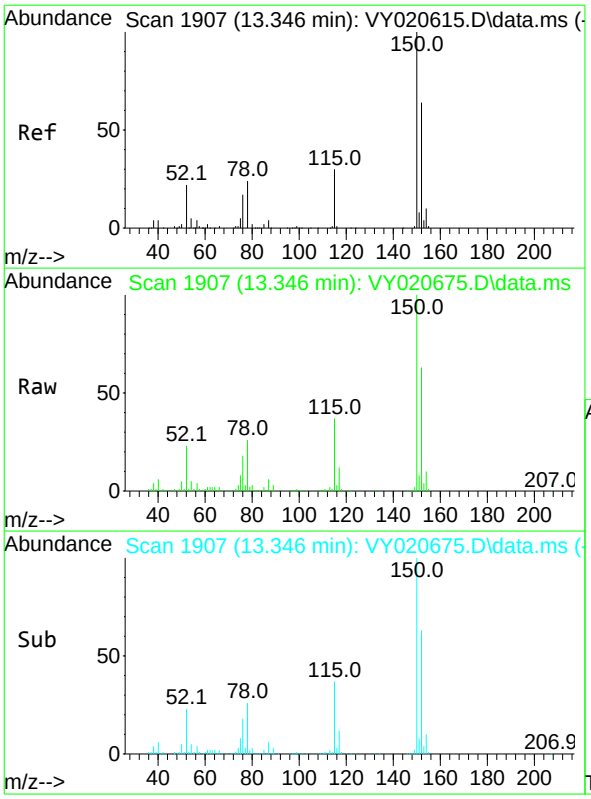




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY020675.D
Acq: 20 Dec 2024 16:52

Tgt Ion:117 Resp: 241631

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.5 | 45.8 | 68.6 |
| 119 | 32.2 | 25.3 | 37.9 |



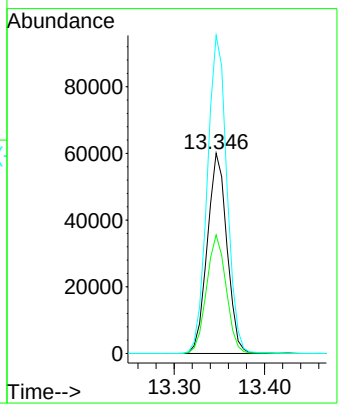



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020675.D
Acq: 20 Dec 2024 16:52

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4RE

Tgt Ion:152 Resp: 90485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.2 | 30.2 | 90.6 |
| 150 | 158.7 | 0.0 | 355.4 |



# CALIBRATION SUMMARY

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF010 = VY020613.D RRF020 = VY020614.D RRF050 = VY020615.D
RRF100 = VY020616.D RRF150 = VY020617.D RRF005 = VY020619.D

| COMPOUND | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | RRF005 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.443 | 0.469 | 0.371 | 0.440 | 0.374 | 0.487 | 0.431 | 11.3 |
| 1,1-Dichloroethene | 0.701 | 0.637 | 0.589 | 0.638 | 0.528 | 0.667 | 0.627 | 9.7 |
| Acetone | 0.141 | 0.107 | 0.098 | 0.110 | | 0.168 | 0.125 | 23.2 |
| Methyl tert-butyl Ether | 1.799 | 1.584 | 1.663 | 1.652 | 1.466 | 1.542 | 1.618 | 7.1 |
| Methylene Chloride | 0.758 | 0.683 | 0.617 | 0.665 | 0.596 | 0.766 | 0.681 | 10.3 |
| trans-1,2-Dichloroethene | 0.771 | 0.703 | 0.710 | 0.692 | 0.636 | 0.707 | 0.703 | 6.2 |
| 1,1-Dichloroethane | 1.401 | 1.307 | 1.323 | 1.300 | 1.173 | 1.333 | 1.306 | 5.7 |
| 2-Butanone | 0.245 | 0.191 | 0.197 | 0.195 | 0.166 | 0.228 | 0.204 | 13.9 |
| Carbon Tetrachloride | 0.768 | 0.715 | 0.701 | 0.697 | 0.656 | 0.730 | 0.711 | 5.2 |
| cis-1,2-Dichloroethene | 0.875 | 0.815 | 0.817 | 0.797 | 0.724 | 0.827 | 0.809 | 6.1 |
| Chloroform | 1.768 | 1.465 | 1.378 | 1.302 | 1.186 | 2.069 | 1.528 | 21.6 |
| 1,1,1-Trichloroethane | 1.298 | 1.215 | 1.198 | 1.183 | 1.086 | 1.219 | 1.200 | 5.7 |
| Benzene | 2.055 | 1.900 | 1.859 | 1.847 | 1.713 | 1.927 | 1.883 | 5.9 |
| 1,2-Dichloroethane | 0.546 | 0.499 | 0.500 | 0.498 | 0.452 | 0.502 | 0.500 | 6 |
| Trichloroethene | 0.501 | 0.462 | 0.458 | 0.453 | 0.422 | 0.481 | 0.463 | 5.8 |
| Toluene | 1.247 | 1.185 | 1.167 | 1.165 | 1.082 | 1.176 | 1.170 | 4.5 |
| Tetrachloroethene | 0.505 | 0.464 | 0.452 | 0.446 | 0.422 | 0.533 | 0.470 | 8.7 |
| Chlorobenzene | 1.501 | 1.397 | 1.374 | 1.381 | 1.293 | 1.441 | 1.398 | 5 |
| Ethyl Benzene | 2.747 | 2.583 | 2.556 | 2.543 | 2.414 | 2.633 | 2.579 | 4.2 |
| m/p-Xylenes | 1.031 | 0.951 | 0.953 | 0.942 | 0.892 | 0.984 | 0.959 | 4.8 |
| o-Xylene | 0.956 | 0.892 | 0.898 | 0.887 | 0.842 | 0.894 | 0.895 | 4.1 |
| n-propylbenzene | 5.566 | 5.397 | 5.283 | 5.151 | 4.837 | 5.307 | 5.257 | 4.7 |
| tert-Butylbenzene | 3.378 | 3.288 | 3.215 | 3.178 | 2.992 | 3.188 | 3.206 | 4 |
| 1,2,4-Trimethylbenzene | 3.660 | 3.534 | 3.536 | 3.429 | 3.224 | 3.454 | 3.473 | 4.2 |
| sec-Butylbenzene | 4.894 | 4.777 | 4.690 | 4.543 | 4.263 | 4.806 | 4.662 | 4.9 |
| 1,3-Dichlorobenzene | 1.982 | 1.912 | 1.864 | 1.832 | 1.702 | 1.966 | 1.876 | 5.5 |
| 1,4-Dichlorobenzene | 1.980 | 1.852 | 1.832 | 1.797 | 1.680 | 2.008 | 1.858 | 6.5 |
| n-Butylbenzene | 3.755 | 3.736 | 3.749 | 3.599 | 3.393 | 3.625 | 3.643 | 3.8 |
| 1,2-Dichlorobenzene | 1.735 | 1.614 | 1.606 | 1.602 | 1.501 | 1.694 | 1.626 | 5 |
| 1,2-Dichloroethane-d4 | 0.619 | 0.487 | 0.569 | 0.507 | 0.467 | 0.636 | 0.548 | 13 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Calibration Time(s): 10:01 14:51

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF010 = VY020613.D RRF020 = VY020614.D RRF050 = VY020615.D
RRF100 = VY020616.D RRF150 = VY020617.D RRF005 = VY020619.D

| COMPOUND | RRF010 | RRF020 | RRF050 | RRF100 | RRF150 | RRF005 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 0.385 | 0.328 | 0.360 | 0.325 | 0.313 | 0.404 | 0.352 | 10.4 |
| Toluene-d8 | 1.314 | 1.127 | 1.271 | 1.143 | 1.100 | 1.445 | 1.233 | 10.9 |
| 4-Bromofluorobenzene | 0.538 | 0.448 | 0.480 | 0.433 | 0.412 | 0.585 | 0.482 | 13.9 |
| 1,4-Dioxane | 3.173 | 2.476 | 2.673 | 2.757 | 2.467 | 2.462 | 2.668 | 10.4 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

# Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024
Response Via : Initial Calibration

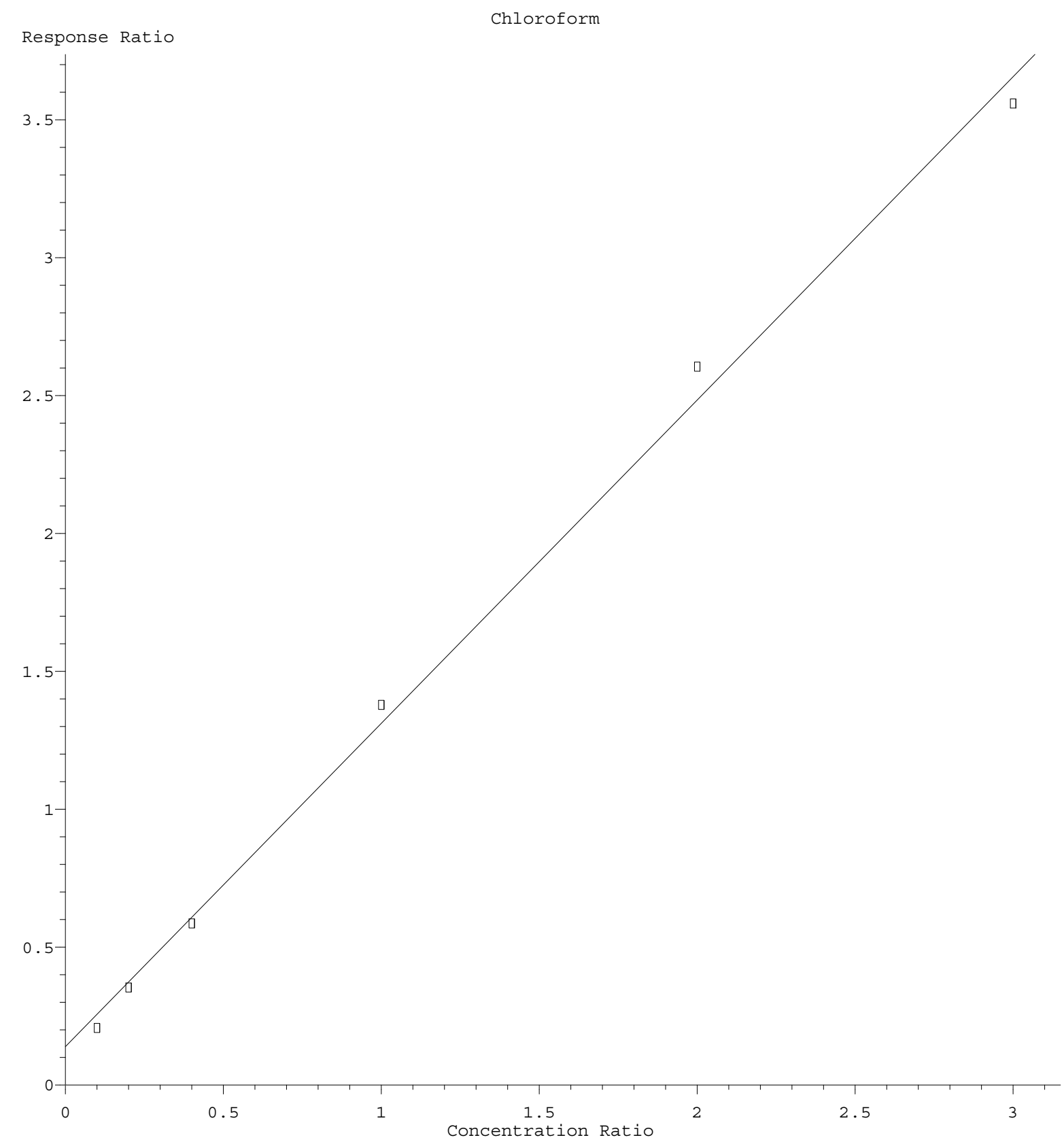
Calibration Files
5 =VY020619.D 10 =VY020613.D 20 =VY020614.D 50 =VY020615.D 100 =VY020616.D 150 =VY020617.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.665 | 0.678 | 0.633 | 0.617 | 0.601 | 0.552 | 0.625 | 7.31 |
| 3) | P | Chloromethane | 0.555 | 0.490 | 0.506 | 0.428 | 0.426 | 0.372 | 0.463 | 14.32 |
| 4) | C | Vinyl Chloride | 0.487 | 0.443 | 0.469 | 0.371 | 0.440 | 0.374 | 0.431 | 11.27# |
| 5) | T | Bromomethane | 0.327 | 0.291 | 0.279 | 0.229 | 0.282 | 0.254 | 0.277 | 12.08 |
| 6) | T | Chloroethane | 0.302 | 0.273 | 0.287 | 0.212 | 0.272 | 0.251 | 0.266 | 11.75 |
| 7) | T | Trichlorofluor... | 0.993 | 0.981 | 0.954 | 0.791 | 0.878 | 0.810 | 0.901 | 9.73 |
| 8) | T | Diethyl Ether | 0.343 | 0.346 | 0.330 | 0.291 | 0.315 | 0.272 | 0.316 | 9.40 |
| 9) | T | 1,1,2-Trichlor... | 0.712 | 0.715 | 0.659 | 0.603 | 0.649 | 0.537 | 0.646 | 10.48 |
| 10) | T | Methyl Iodide | 0.670 | 0.803 | 0.746 | 0.692 | 0.778 | 0.625 | 0.719 | 9.47 |
| 11) | T | Tert butyl alc... | 0.093 | 0.110 | 0.073 | 0.051 | 0.053 | 0.045 | 0.071 | 37.31 |
| 12) | CM | 1,1-Dichloroet... | 0.667 | 0.701 | 0.637 | 0.589 | 0.638 | 0.528 | 0.627 | 9.72# |
| 13) | T | Acrolein | 0.033 | 0.039 | 0.033 | 0.017 | 0.019 | 0.015 | 0.026 | 38.81 |
| 14) | T | Allyl chloride | 1.163 | 1.235 | 1.118 | 1.028 | 1.144 | 0.901 | 1.098 | 10.74 |
| 15) | T | Acrylonitrile | 0.144 | 0.179 | 0.144 | 0.155 | 0.153 | 0.132 | 0.151 | 10.38 |
| 16) | T | Acetone | 0.168 | 0.141 | 0.107 | 0.098 | 0.110 | | 0.125 | 23.18 |
| 17) | T | Carbon Disulfide | 2.142 | 2.315 | 2.083 | 1.939 | 2.092 | 1.669 | 2.040 | 10.70 |
| 18) | T | Methyl Acetate | 0.378 | 0.474 | 0.351 | 0.350 | 0.391 | 0.292 | 0.373 | 16.13 |
| 19) | T | Methyl tert-bu... | 1.542 | 1.799 | 1.584 | 1.663 | 1.652 | 1.466 | 1.618 | 7.10 |
| 20) | T | Methylene Chlo... | 0.766 | 0.758 | 0.683 | 0.617 | 0.665 | 0.596 | 0.681 | 10.29 |
| 21) | T | trans-1,2-Dich... | 0.707 | 0.771 | 0.703 | 0.710 | 0.692 | 0.636 | 0.703 | 6.17 |
| 22) | T | Diisopropyl ether | 2.216 | 2.452 | 2.235 | 2.286 | 2.216 | 1.971 | 2.229 | 6.95 |
| 23) | T | Vinyl Acetate | 1.175 | 1.418 | 1.245 | 1.314 | 1.295 | 1.129 | 1.263 | 8.20 |
| 24) | P | 1,1-Dichloroet... | 1.333 | 1.401 | 1.307 | 1.323 | 1.300 | 1.173 | 1.306 | 5.70 |
| 25) | T | 2-Butanone | 0.228 | 0.245 | 0.191 | 0.197 | 0.195 | 0.166 | 0.204 | 13.90 |
| 26) | T | 2,2-Dichloropr... | 1.451 | 1.366 | 1.219 | 1.184 | 1.146 | 1.041 | 1.235 | 12.13 |
| 27) | T | cis-1,2-Dichlo... | 0.827 | 0.875 | 0.815 | 0.817 | 0.797 | 0.724 | 0.809 | 6.09 |
| 28) | T | Bromochloromet... | 0.427 | 0.436 | 0.353 | 0.495 | 0.501 | 0.432 | 0.441 | 12.27 |
| 29) | T | Tetrahydrofuran | 0.116 | 0.154 | 0.126 | 0.133 | 0.132 | 0.110 | 0.128 | 11.76 |
| 30) | C | Chloroform | 2.069 | 1.768 | 1.465 | 1.378 | 1.302 | 1.186 | 1.528 | 21.59# |
| 31) | T | Cyclohexane | 1.443 | 1.388 | 1.247 | 1.198 | 1.160 | 1.056 | 1.249 | 11.59 |
| 32) | T | 1,1,1-Trichlor... | 1.219 | 1.298 | 1.215 | 1.198 | 1.183 | 1.086 | 1.200 | 5.72 |
| 33) | S | 1,2-Dichloroet... | 0.636 | 0.619 | 0.487 | 0.569 | 0.507 | 0.467 | 0.548 | 12.97 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.404 | 0.385 | 0.328 | 0.360 | 0.325 | 0.313 | 0.352 | 10.37 |
| 36) | T | 1,1-Dichloropr... | 0.688 | 0.691 | 0.637 | 0.637 | 0.622 | 0.581 | 0.643 | 6.46 |
| 37) | T | Ethyl Acetate | 0.296 | 0.379 | 0.290 | 0.298 | 0.296 | 0.255 | 0.302 | 13.52 |
| 38) | T | Carbon Tetrach... | 0.730 | 0.768 | 0.715 | 0.701 | 0.697 | 0.656 | 0.711 | 5.21 |
| 39) | T | Methylcyclohexane | 0.883 | 0.883 | 0.848 | 0.832 | 0.812 | 0.766 | 0.837 | 5.33 |
| 40) | TM | Benzene | 1.927 | 2.055 | 1.900 | 1.859 | 1.847 | 1.713 | 1.883 | 5.95 |
| 41) | T | Methacrylonitrile | 0.147 | 0.186 | 0.146 | 0.154 | 0.183 | 0.143 | 0.160 | 12.38 |
| 42) | TM | 1,2-Dichloroet... | 0.502 | 0.546 | 0.499 | 0.500 | 0.498 | 0.452 | 0.500 | 5.98 |
| 43) | T | Isopropyl Acetate | 0.519 | 0.671 | 0.554 | 0.582 | 0.589 | 0.518 | 0.572 | 9.93 |
| 44) | TM | Trichloroethene | 0.481 | 0.501 | 0.462 | 0.458 | 0.453 | 0.422 | 0.463 | 5.82 |
| 45) | C | 1,2-Dichloropr... | 0.442 | 0.473 | 0.450 | 0.434 | 0.440 | 0.401 | 0.440 | 5.30# |
| 46) | T | Dibromomethane | 0.232 | 0.262 | 0.230 | 0.231 | 0.233 | 0.209 | 0.233 | 7.18 |
| 47) | T | Bromodichlorom... | 0.626 | 0.672 | 0.632 | 0.632 | 0.627 | 0.581 | 0.628 | 4.57 |
| 48) | T | Methyl methacr... | 0.254 | 0.305 | 0.259 | 0.276 | 0.286 | 0.252 | 0.272 | 7.69 |
| 49) | T | 1,4-Dioxane | 0.002 | 0.003 | 0.002 | 0.003 | 0.003 | 0.002 | 0.003 | 10.37 |
| 50) | S | Toluene-d8 | 1.445 | 1.314 | 1.127 | 1.271 | 1.143 | 1.100 | 1.233 | 10.88 |
| 51) | T | 4-Methyl-2-Pen... | 0.297 | 0.364 | 0.290 | 0.299 | 0.301 | 0.261 | 0.302 | 11.09 |
| 52) | CM | Toluene | 1.176 | 1.247 | 1.185 | 1.167 | 1.165 | 1.082 | 1.170 | 4.52# |
| 53) | T | t-1,3-Dichloro... | 0.534 | 0.638 | 0.572 | 0.602 | 0.611 | 0.556 | 0.586 | 6.55 |
| 54) | T | cis-1,3-Dichlo... | 0.661 | 0.742 | 0.694 | 0.706 | 0.714 | 0.646 | 0.694 | 5.08 |
| 55) | T | 1,1,2-Trichlor... | 0.308 | 0.344 | 0.306 | 0.303 | 0.309 | 0.276 | 0.308 | 7.06 |

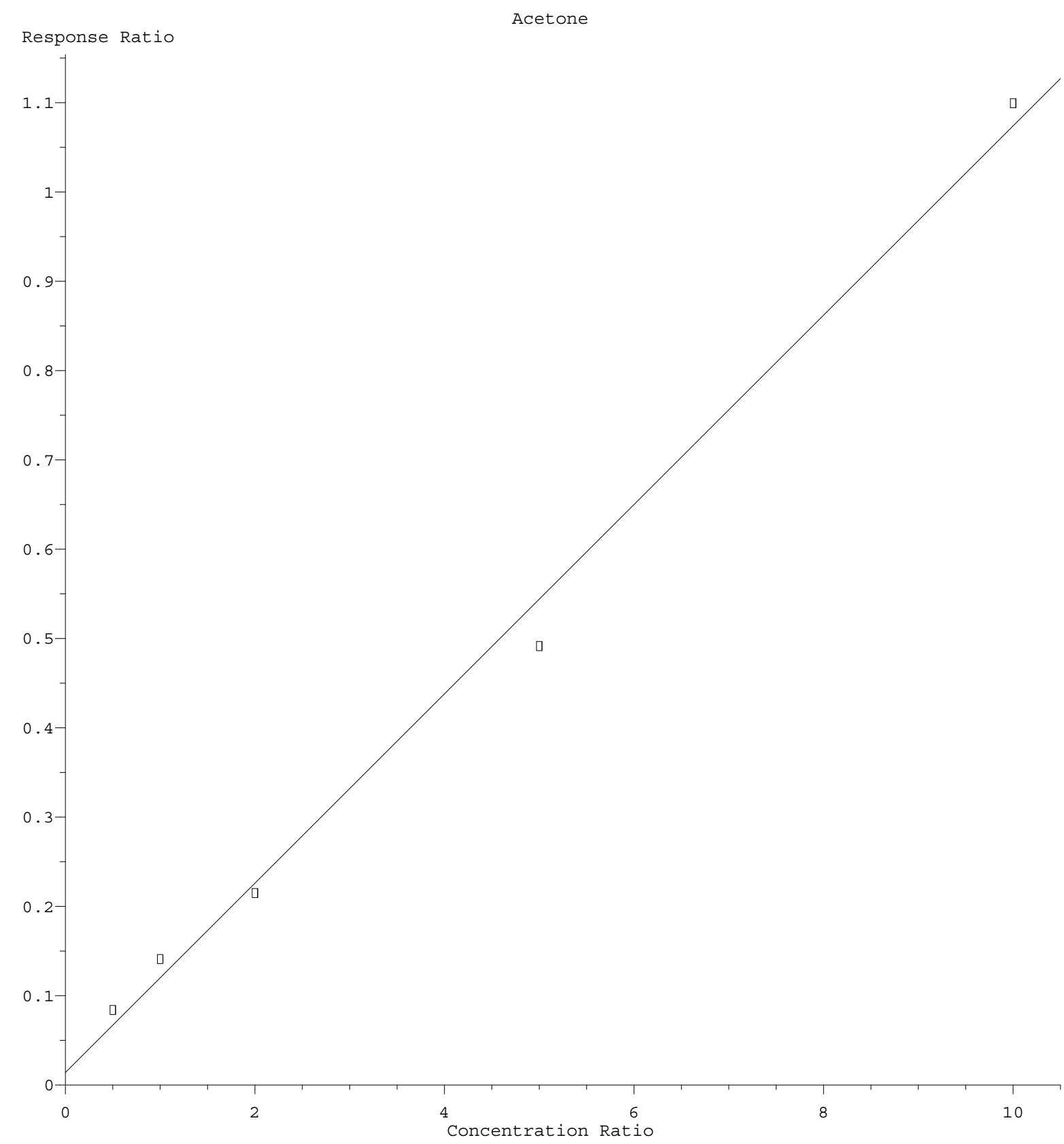
Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y121724S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 56) | T | Ethyl methacry... | 0.388 | 0.485 | 0.422 | 0.460 | 0.487 | 0.435 | 0.446 | 8.63 |
| 57) | T | 1,3-Dichloropr... | 0.534 | 0.609 | 0.544 | 0.555 | 0.554 | 0.495 | 0.548 | 6.71 |
| 58) | T | 2-Chloroethyl ... | 0.185 | 0.197 | 0.176 | 0.172 | 0.198 | 0.198 | 0.188 | 6.28 |
| 59) | T | 2-Hexanone | 0.180 | 0.225 | 0.183 | 0.199 | 0.202 | 0.175 | 0.194 | 9.55 |
| 60) | T | Dibromochlorom... | 0.396 | 0.447 | 0.402 | 0.420 | 0.421 | 0.381 | 0.411 | 5.67 |
| 61) | T | 1,2-Dibromoethane | 0.277 | 0.319 | 0.281 | 0.288 | 0.290 | 0.261 | 0.286 | 6.70 |
| 62) | S | 4-Bromofluorob... | 0.585 | 0.538 | 0.448 | 0.480 | 0.433 | 0.412 | 0.482 | 13.88 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.533 | 0.505 | 0.464 | 0.452 | 0.446 | 0.422 | 0.470 | 8.71 |
| 65) | PM | Chlorobenzene | 1.441 | 1.501 | 1.397 | 1.374 | 1.381 | 1.293 | 1.398 | 4.99 |
| 66) | T | 1,1,1,2-Tetrac... | 0.479 | 0.529 | 0.468 | 0.474 | 0.476 | 0.443 | 0.478 | 5.88 |
| 67) | C | Ethyl Benzene | 2.633 | 2.747 | 2.583 | 2.556 | 2.543 | 2.414 | 2.579 | 4.24# |
| 68) | T | m/p-Xylenes | 0.984 | 1.031 | 0.951 | 0.953 | 0.942 | 0.892 | 0.959 | 4.82 |
| 69) | T | o-Xylene | 0.894 | 0.956 | 0.892 | 0.898 | 0.887 | 0.842 | 0.895 | 4.07 |
| 70) | T | Styrene | 1.478 | 1.586 | 1.496 | 1.502 | 1.501 | 1.406 | 1.495 | 3.85 |
| 71) | P | Bromoform | 0.262 | 0.302 | 0.256 | 0.270 | 0.272 | 0.250 | 0.269 | 6.86 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 4.401 | 4.636 | 4.451 | 4.356 | 4.284 | 4.051 | 4.363 | 4.43 |
| 74) | T | N-amyl acetate | 0.867 | 1.133 | 0.999 | 1.067 | 1.088 | 0.972 | 1.021 | 9.36 |
| 75) | P | 1,1,2,2-Tetrac... | 0.689 | 0.804 | 0.702 | 0.710 | 0.710 | 0.635 | 0.708 | 7.72 |
| 76) | T | 1,2,3-Trichlor... | 0.532 | 0.581 | 0.520 | 0.522 | 0.511 | 0.450 | 0.519 | 8.11 |
| 77) | T | Bromobenzene | 0.974 | 1.007 | 0.953 | 0.947 | 0.944 | 0.877 | 0.950 | 4.50 |
| 78) | T | n-propylbenzene | 5.307 | 5.566 | 5.397 | 5.283 | 5.151 | 4.837 | 5.257 | 4.71 |
| 79) | T | 2-Chlorotoluene | 3.020 | 3.114 | 3.012 | 2.940 | 2.932 | 2.727 | 2.958 | 4.42 |
| 80) | T | 1,3,5-Trimethy... | 3.616 | 3.701 | 3.622 | 3.560 | 3.473 | 3.270 | 3.540 | 4.30 |
| 81) | T | trans-1,4-Dich... | 0.212 | 0.270 | 0.247 | 0.256 | 0.262 | 0.237 | 0.247 | 8.45 |
| 82) | T | 4-Chlorotoluene | 3.264 | 3.185 | 3.123 | 3.059 | 2.993 | 2.786 | 3.068 | 5.46 |
| 83) | T | tert-Butylbenzene | 3.188 | 3.378 | 3.288 | 3.215 | 3.178 | 2.992 | 3.206 | 4.02 |
| 84) | T | 1,2,4-Trimethy... | 3.454 | 3.660 | 3.534 | 3.536 | 3.429 | 3.224 | 3.473 | 4.21 |
| 85) | T | sec-Butylbenzene | 4.806 | 4.894 | 4.777 | 4.690 | 4.543 | 4.263 | 4.662 | 4.91 |
| 86) | T | p-Isopropyltol... | 3.838 | 3.975 | 3.951 | 3.916 | 3.809 | 3.574 | 3.844 | 3.82 |
| 87) | T | 1,3-Dichlorobe... | 1.966 | 1.982 | 1.912 | 1.864 | 1.832 | 1.702 | 1.876 | 5.47 |
| 88) | T | 1,4-Dichlorobe... | 2.008 | 1.980 | 1.852 | 1.832 | 1.797 | 1.680 | 1.858 | 6.54 |
| 89) | T | n-Butylbenzene | 3.625 | 3.755 | 3.736 | 3.749 | 3.599 | 3.393 | 3.643 | 3.82 |
| 90) | T | Hexachloroethane | 0.774 | 0.794 | 0.764 | 0.764 | 0.753 | 0.720 | 0.762 | 3.23 |
| 91) | T | 1,2-Dichlorobe... | 1.694 | 1.735 | 1.614 | 1.606 | 1.602 | 1.501 | 1.626 | 5.01 |
| 92) | T | 1,2-Dibromo-3-... | 0.116 | 0.133 | 0.107 | 0.113 | 0.114 | 0.107 | 0.115 | 8.44 |
| 93) | T | 1,2,4-Trichlor... | 0.964 | 0.975 | 0.927 | 1.014 | 1.030 | 0.990 | 0.983 | 3.76 |
| 94) | T | Hexachlorobuta... | 0.667 | 0.650 | 0.636 | 0.657 | 0.634 | 0.613 | 0.643 | 2.97 |
| 95) | T | Naphthalene | 1.437 | 1.669 | 1.528 | 1.768 | 1.906 | 1.808 | 1.686 | 10.52 |
| 96) | T | 1,2,3-Trichlor... | 0.813 | 0.798 | 0.791 | 0.864 | 0.874 | 0.846 | 0.831 | 4.25 |

(#) = Out of Range




Response = 1.172e+000 * Amt + 1.389e-001
Coef of Det (r^2) = 0.996566  Curve Fit: Linear
Method: \\chemsrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024




Response = 1.060e-001 * Amt + 1.400e-002
Coef of Det (r^2) = 0.993909  Curve Fit: Linear
Method: C:\chrom\msvsrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Calibration Table Last Updated: Wed Dec 18 05:27:13 2024

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 170610 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 263150 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 228550 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 127910 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 21133 | 11.310 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 22.620%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 20262 | 10.925 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 21.860%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 69155 | 10.653 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 21.300%# | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 28323 | 11.154 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 22.300%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 23136 | 10.857 | ug/l | | 100 |
| 3) Chloromethane | 2.068 | 50 | 16735 | 10.599 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 15133 | 10.297 | ug/l | | 98 |
| 5) Bromomethane | 2.598 | 94 | 9934 | 10.516 | ug/l | | 95 |
| 6) Chloroethane | 2.732 | 64 | 9308 | 10.249 | ug/l | | 93 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 33462 | 10.882 | ug/l | | 97 |
| 8) Diethyl Ether | 3.458 | 74 | 11799 | 10.941 | ug/l | | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 24382 | 11.062 | ug/l | | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 27400 | 11.166 | ug/l | | 96 |
| 11) Tert butyl alcohol | 4.842 | 59 | 18830 | 72.145 | ug/l | # | 90 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 23914 | 11.182 | ug/l | | 98 |
| 13) Acrolein | 3.653 | 56 | 6650 | 75.266 | ug/l | | 100 |
| 14) Allyl chloride | 4.385 | 41 | 42157 | 11.250 | ug/l | | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 30489 | 59.095 | ug/l | | 99 |
| 16) Acetone | 3.873 | 43 | 24059 | 59.918 | ug/l | | 92 |
| 17) Carbon Disulfide | 4.110 | 76 | 79000 | 11.348 | ug/l | | 98 |
| 18) Methyl Acetate | 4.391 | 43 | 16164 | 12.714 | ug/l | | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 61370 | 11.118 | ug/l | | 99 |
| 20) Methylene Chloride | 4.622 | 84 | 25848 | 11.126 | ug/l | | 94 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 26315 | 10.969 | ug/l | | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 83653 | 10.997 | ug/l | | 94 |
| 23) Vinyl Acetate | 5.964 | 43 | 241892 | 56.147 | ug/l | | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 47807 | 10.728 | ug/l | | 99 |
| 25) 2-Butanone | 6.896 | 43 | 41782 | 60.169 | ug/l | | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 46620 | 11.067 | ug/l | | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 29841 | 10.812 | ug/l | | 97 |
| 28) Bromochloromethane | 7.250 | 49 | 14872 | 9.894 | ug/l | | 98 |
| 29) Tetrahydrofuran | 7.262 | 42 | 26233 | 59.842 | ug/l | | 99 |
| 30) Chloroform | 7.421 | 83 | 60327 | 9.156 | ug/l | | 98 |
| 31) Cyclohexane | 7.701 | 56 | 47368 | 11.117 | ug/l | # | 93 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 44299 | 10.820 | ug/l | | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 36347 | 10.748 | ug/l | | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 19950 | 12.541 | ug/l | | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 40394 | 10.796 | ug/l | | 95 |
| 39) Methylcyclohexane | 9.103 | 83 | 46462 | 10.541 | ug/l | | 97 |
| 40) Benzene | 8.079 | 78 | 108150 | 10.910 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 9800 | 11.653 ug/l | 95 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 28739 | 10.931 ug/l | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 35299 | 11.721 ug/l # | 88 |
| 44) Trichloroethene | 8.866 | 130 | 26388 | 10.834 ug/l | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 24889 | 10.743 ug/l | 100 |
| 46) Dibromomethane | 9.231 | 93 | 13764 | 11.242 ug/l | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 35352 | 10.689 ug/l | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 16060 | 11.218 ug/l | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 3340 | 237.872 ug/l # | 95 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 95663 | 60.180 ug/l | 100 |
| 52) Toluene | 10.170 | 92 | 65651 | 10.657 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 33566 | 10.892 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 39068 | 10.698 ug/l | 93 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 18100 | 11.181 ug/l | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 25543 | 10.877 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 32029 | 11.099 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 51913 | 52.537 ug/l | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 59126 | 57.933 ug/l | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 23549 | 10.878 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 16807 | 11.162 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 23098 | 10.744 ug/l | 96 |
| 65) Chlorobenzene | 11.438 | 112 | 68621 | 10.738 ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 24180 | 11.065 ug/l | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 125547 | 10.649 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 94273 | 21.506 ug/l | 98 |
| 69) o-Xylene | 11.950 | 106 | 43697 | 10.684 ug/l | 100 |
| 70) Styrene | 11.969 | 104 | 72514 | 10.612 ug/l | 99 |
| 71) Bromoform | 12.127 | 173 | 13822 | 11.250 ug/l # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 118590 | 10.624 ug/l | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 28977 | 11.093 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 20569 | 11.352 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 14870m | 11.287 ug/l | |
| 77) Bromobenzene | 12.530 | 156 | 25752 | 10.591 ug/l | 97 |
| 78) n-propylbenzene | 12.597 | 91 | 142396 | 10.588 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 79651 | 10.527 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 94672 | 10.453 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 6908 | 10.913 ug/l | 93 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 81482 | 10.380 ug/l | 98 |
| 83) tert-Butylbenzene | 12.993 | 119 | 86405 | 10.534 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 93630 | 10.539 ug/l | 98 |
| 85) sec-Butylbenzene | 13.176 | 105 | 125189 | 10.497 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 101690 | 10.342 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 50691 | 10.561 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 50665 | 10.658 ug/l | 97 |
| 89) n-Butylbenzene | 13.615 | 91 | 96052 | 10.307 ug/l | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 20324 | 10.430 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 44391 | 10.674 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 3406 | 11.579 ug/l | 91 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 24954 | 9.920 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 16620 | 10.107 ug/l | 97 |
| 95) Naphthalene | 15.145 | 128 | 42698 | 9.901 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 20408 | 9.602 ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

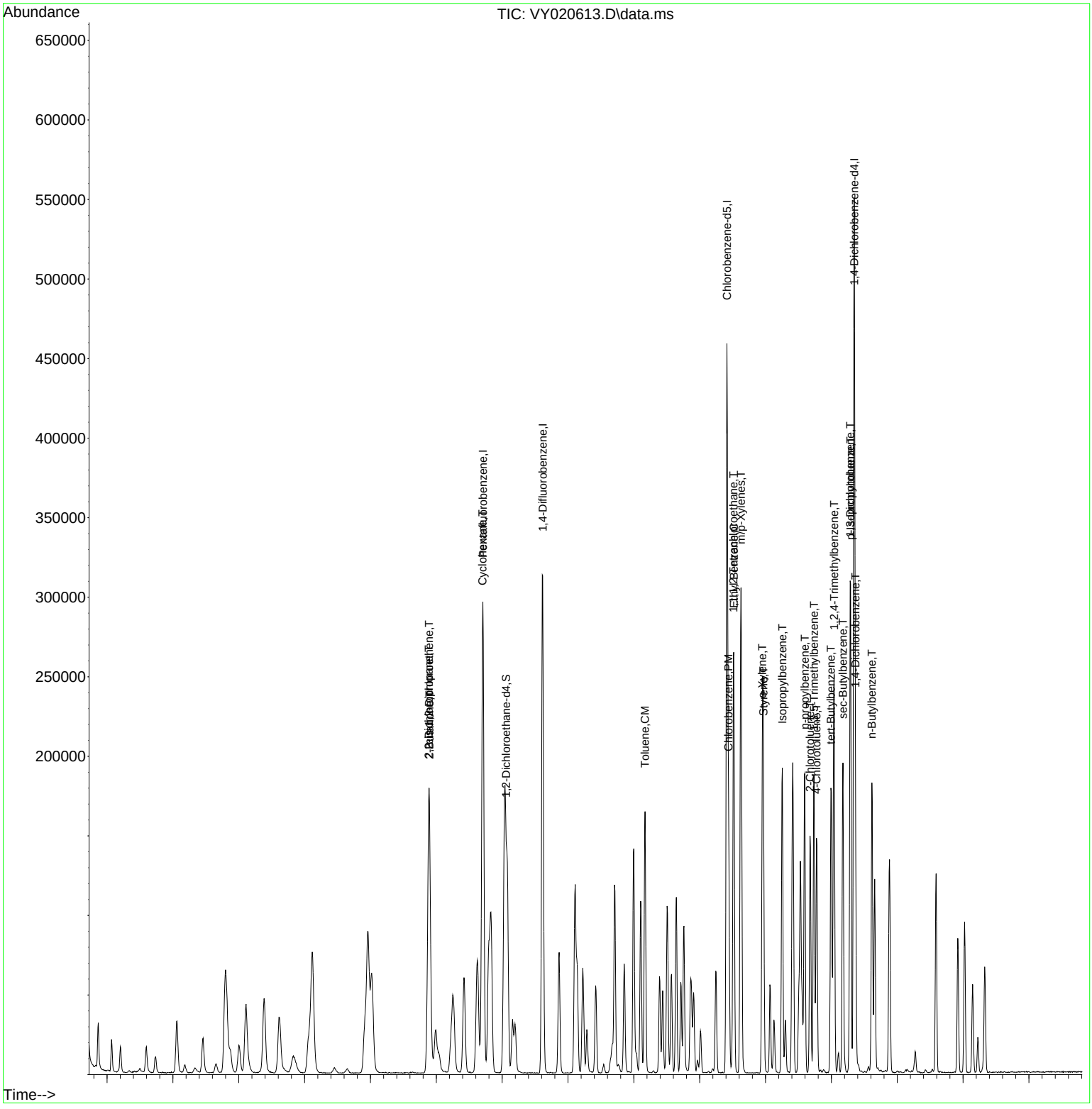
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

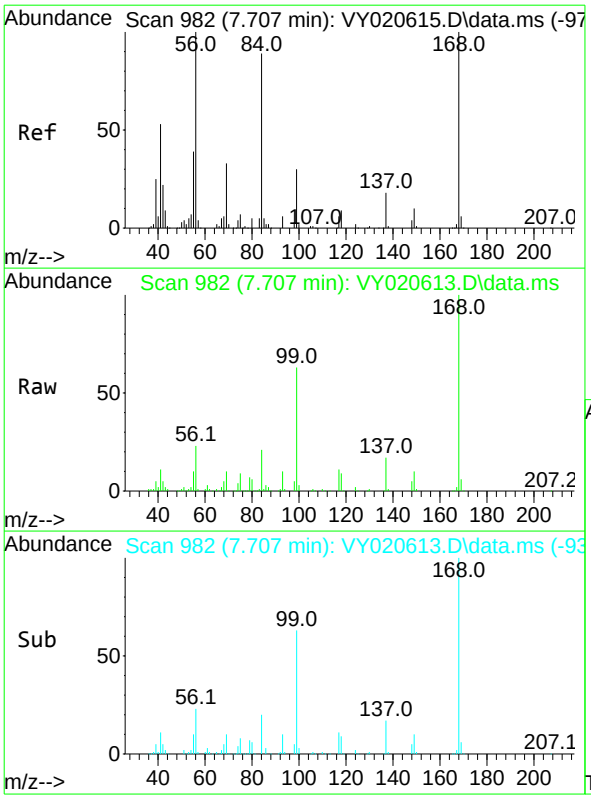
Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

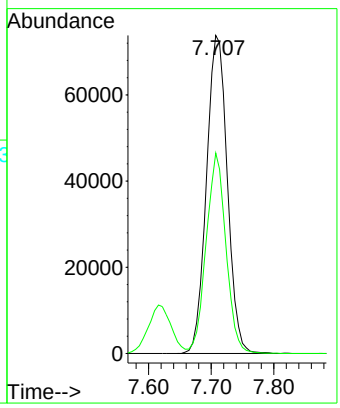





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:168 Resp: 170610

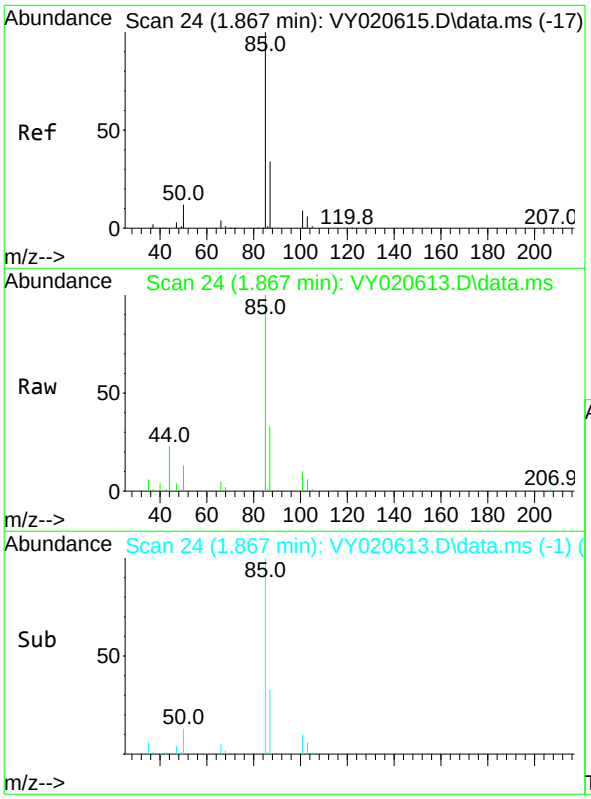
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.9 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

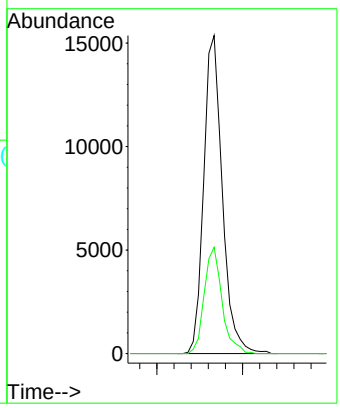
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

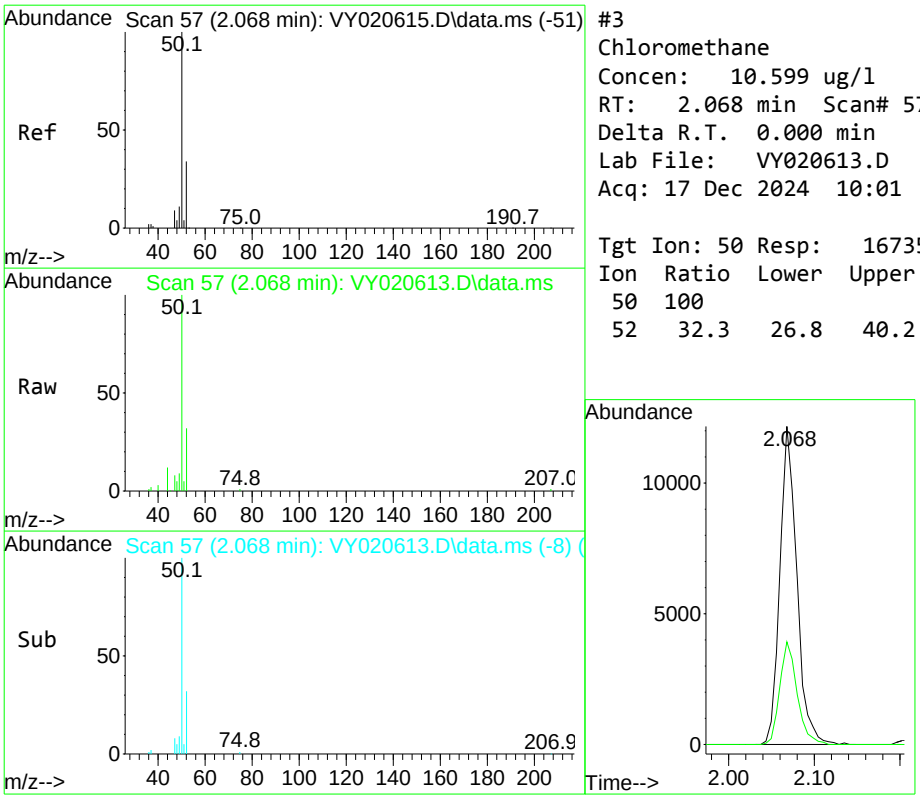



#2
Dichlorodifluoromethane
Concen: 10.857 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 85 Resp: 23136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 16.8 | 50.3 |






#3
Chloromethane
Concen: 10.599 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 50 Resp: 16735

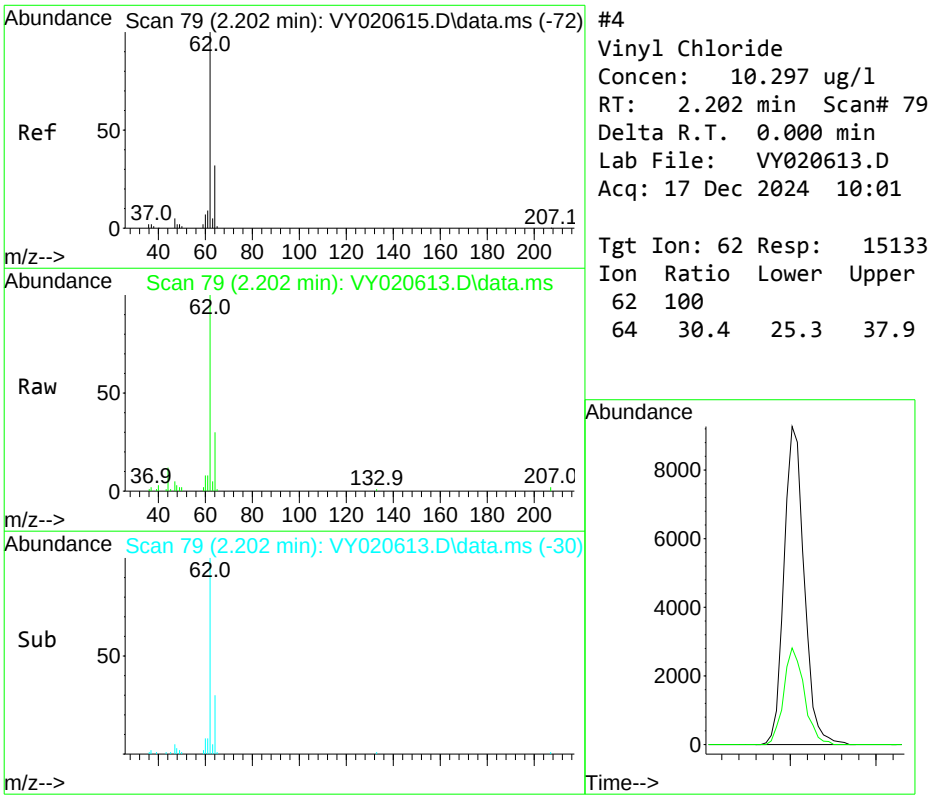
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.3 | 26.8 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

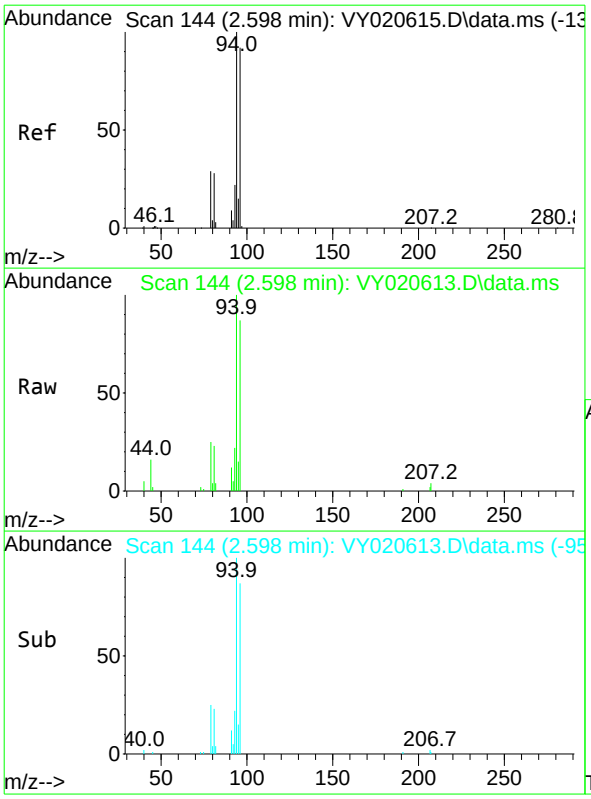
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024




#4
Vinyl Chloride
Concen: 10.297 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 62 Resp: 15133

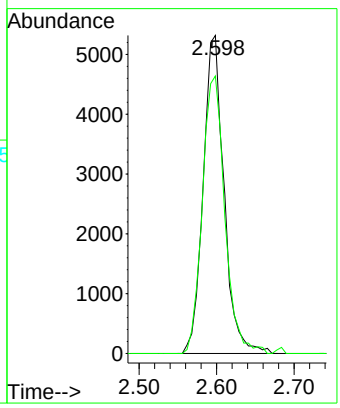
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.4 | 25.3 | 37.9 |




#5
Bromomethane
Concen: 10.516 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 94 Resp: 9934

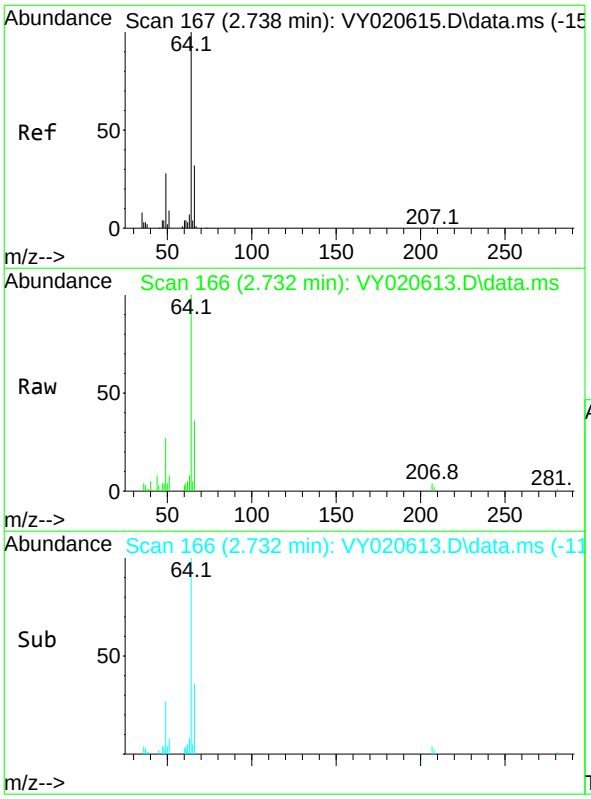
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 87.3 | 73.8 | 110.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

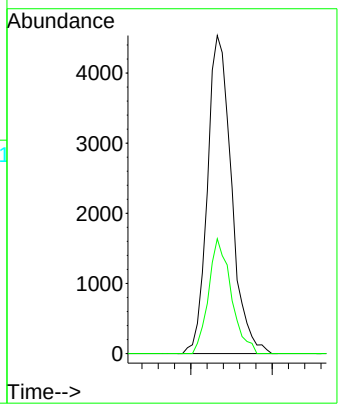
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

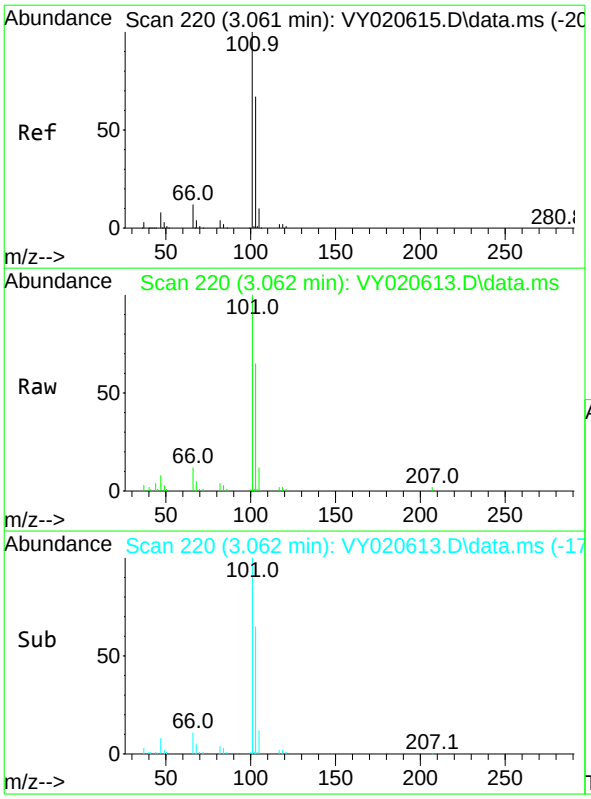



#6
Chloroethane
Concen: 10.249 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 64 Resp: 9308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.1 | 25.8 | 38.6 |

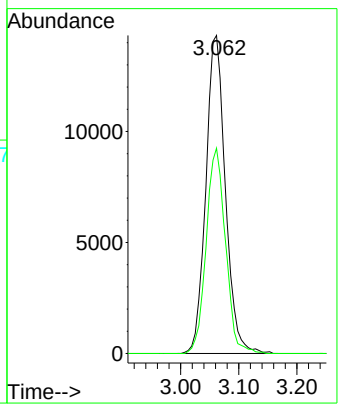





#7
Trichlorofluoromethane
Concen: 10.882 ug/l
RT: 3.062 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:101 Resp: 33462

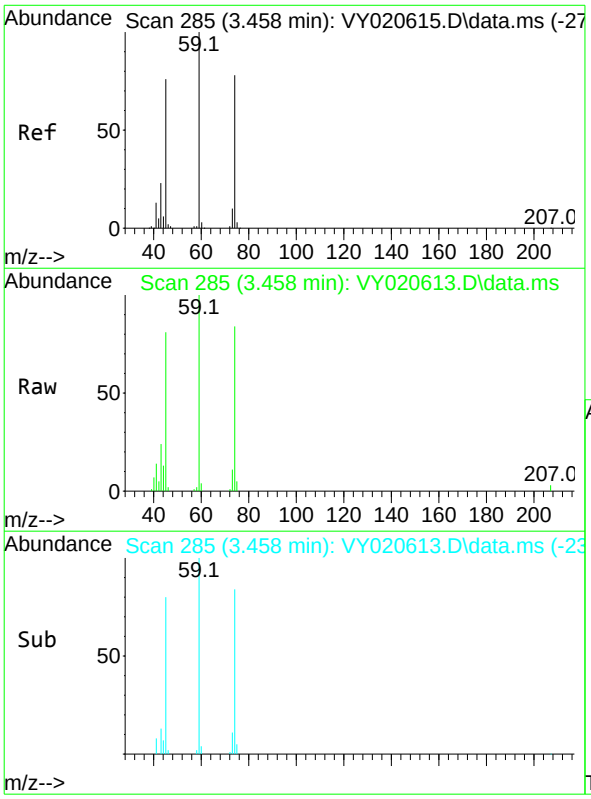
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 53.4 | 80.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

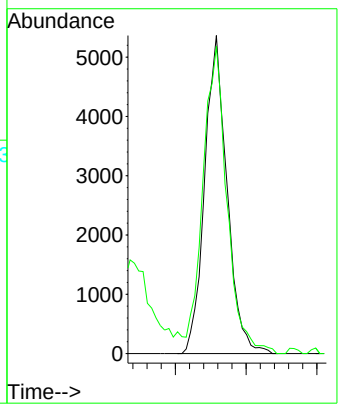
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

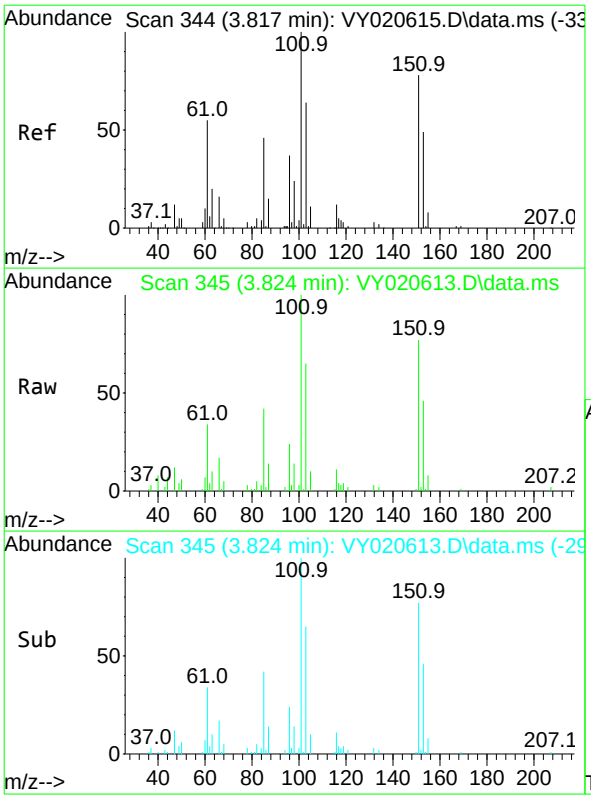



#8
Diethyl Ether
Concen: 10.941 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 74 Resp: 11799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 103.6 | 49.0 | 147.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 11.062 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

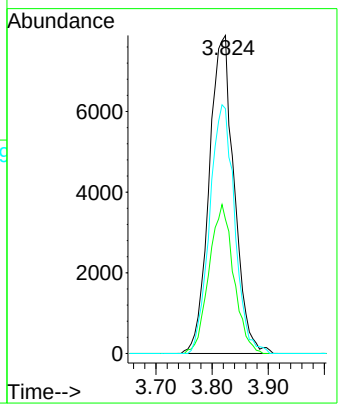
Tgt Ion:101 Resp: 24382

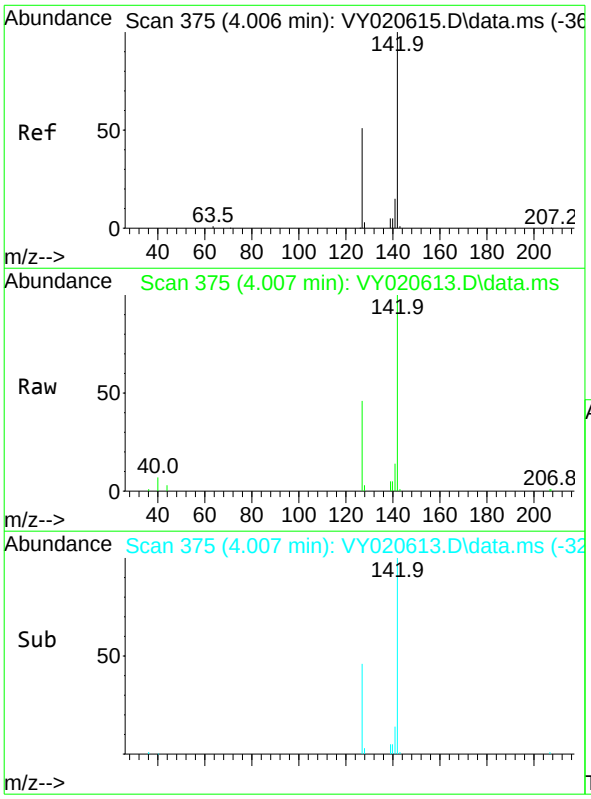
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.3 | 36.6 | 54.8 |
| 151 | 78.2 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

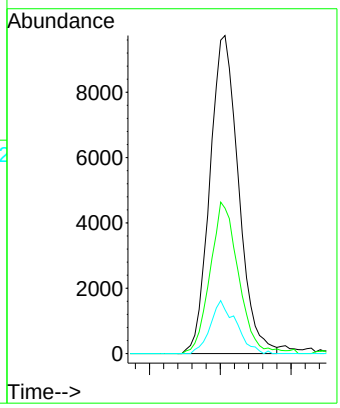


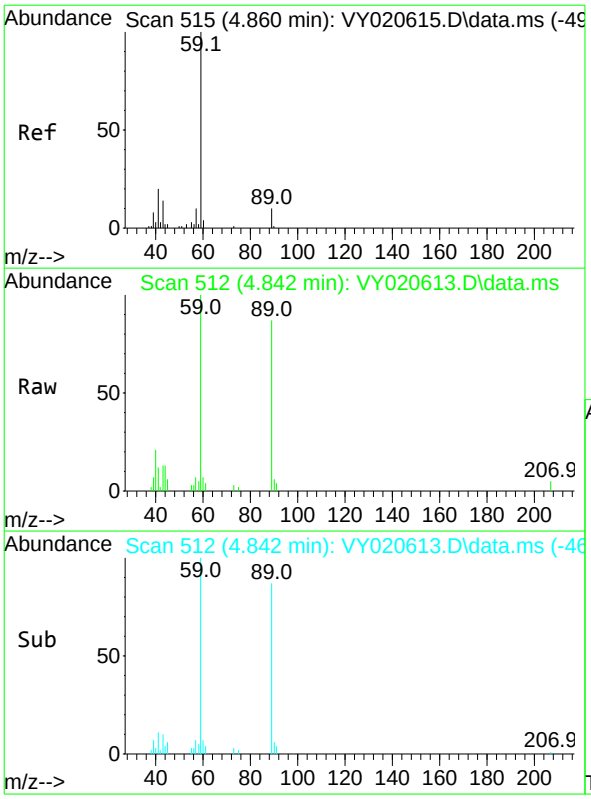




#10
Methyl Iodide
Concen: 11.166 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:142 Resp: 27400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.4 | 40.6 | 61.0 |
| 141 | 15.0 | 11.7 | 17.5 |

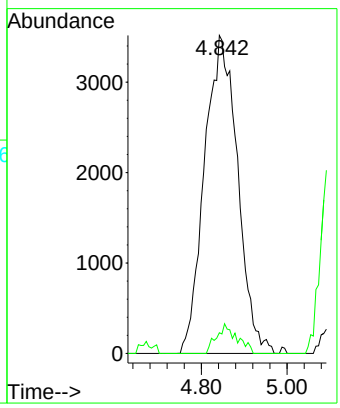





#11
Tert butyl alcohol
Concen: 72.145 ug/l
RT: 4.842 min Scan# 51
Delta R.T. -0.018 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 59 Resp: 18830

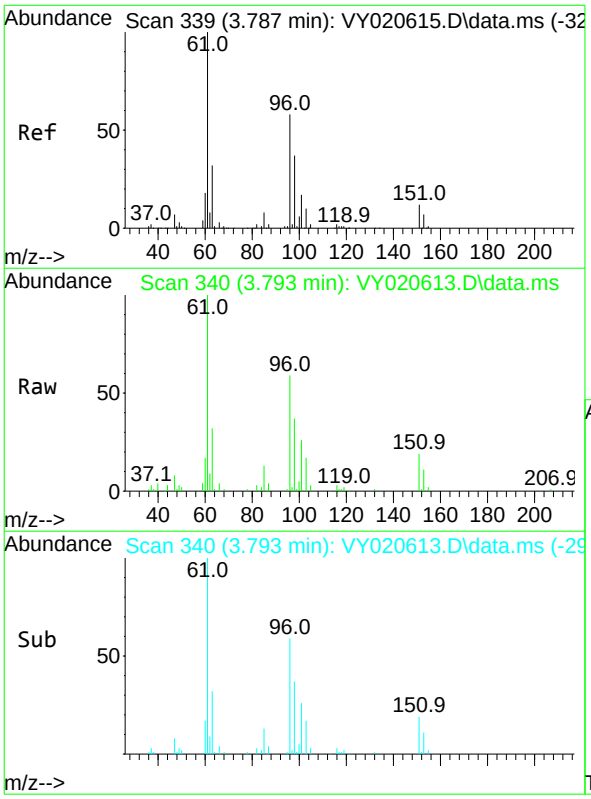
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 5.7 | 7.4 | 11.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

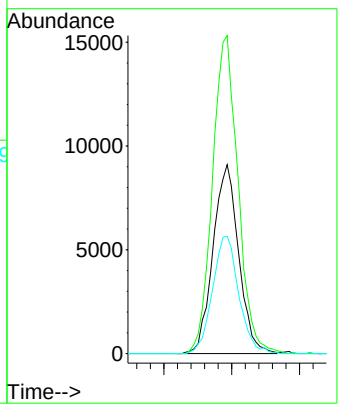
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

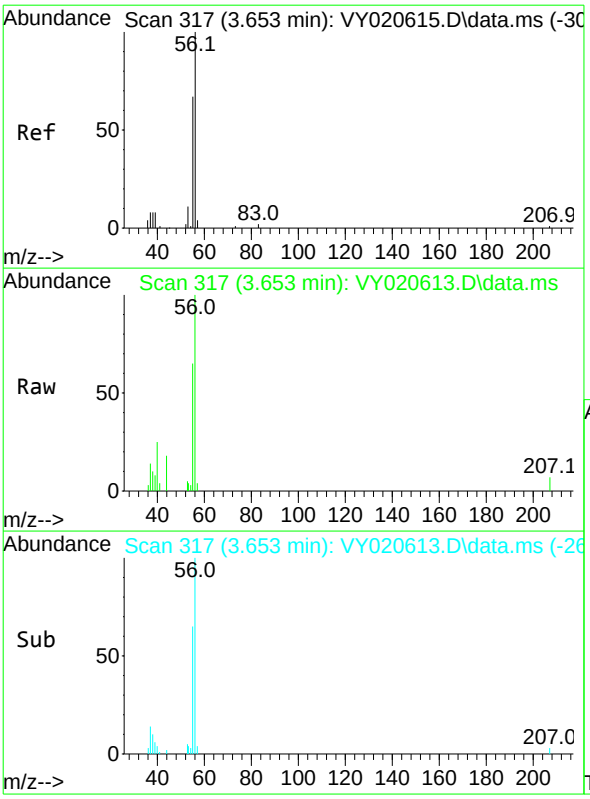



#12
1,1-Dichloroethene
Concen: 11.182 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 96 Resp: 23914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 168.3 | 136.9 | 205.3 |
| 98 | 62.2 | 50.2 | 75.4 |

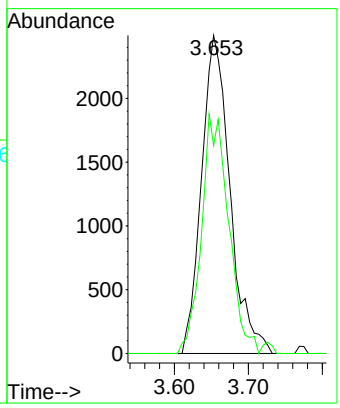





#13
Acrolein
Concen: 75.266 ug/l
RT: 3.653 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 56 Resp: 6650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.7 | 57.5 | 86.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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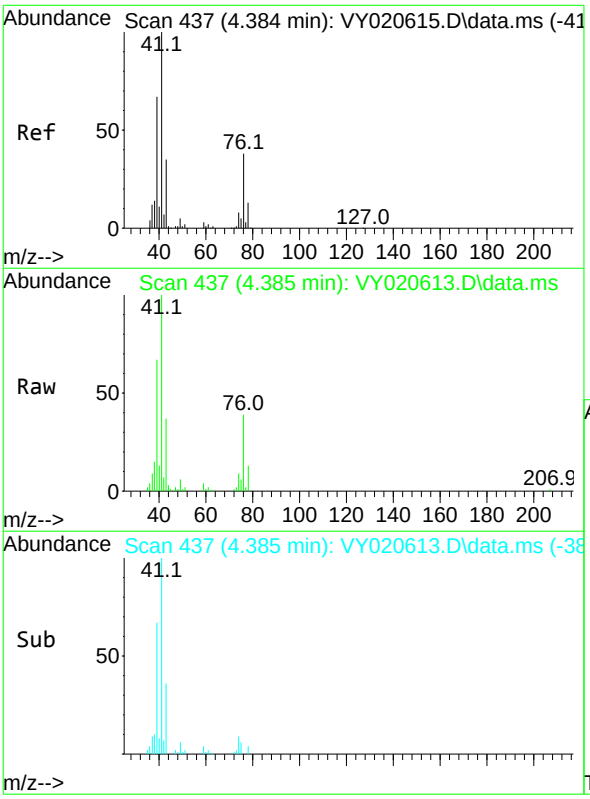
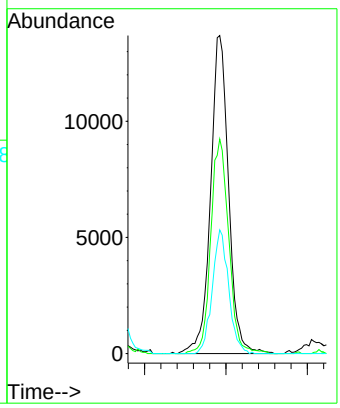
Supervised By :Semsettin Yesilyurt 12/18/2024

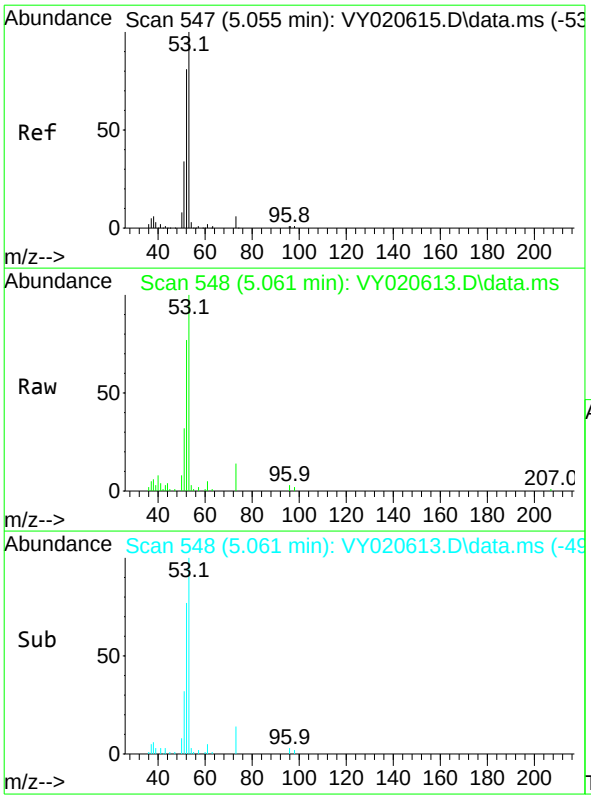



#14
Allyl chloride
Concen: 11.250 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 41 Resp: 42157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.0 | 53.0 | 79.4 |
| 76 | 35.2 | 29.5 | 44.3 |

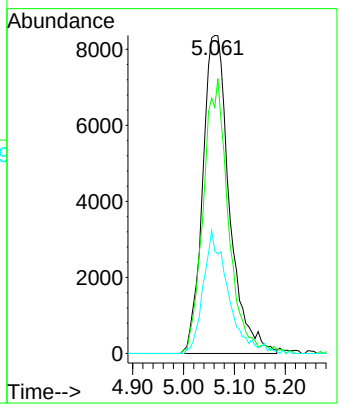





#15
Acrylonitrile
Concen: 59.095 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 53 Resp: 30489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.7 | 64.5 | 96.7 |
| 51 | 35.1 | 29.4 | 44.0 |




**Instrument :**
MSVOA_Y
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VSTDICC010

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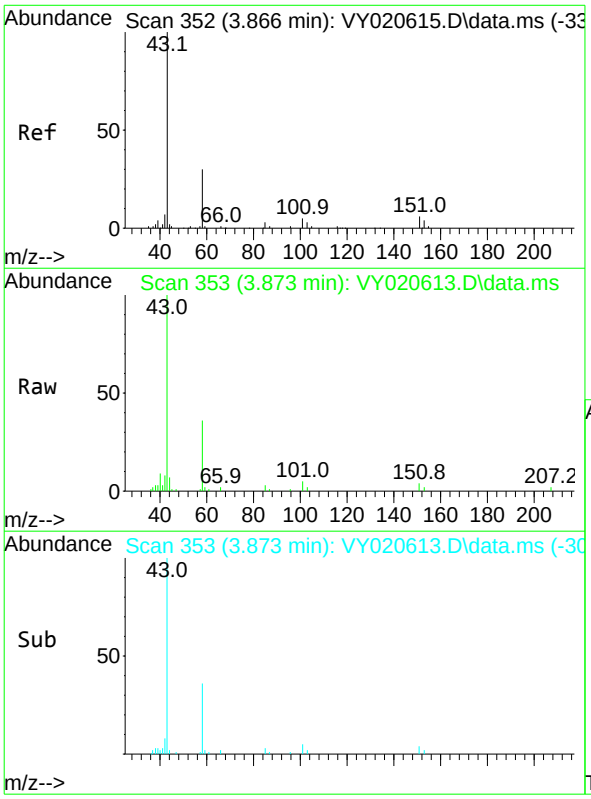
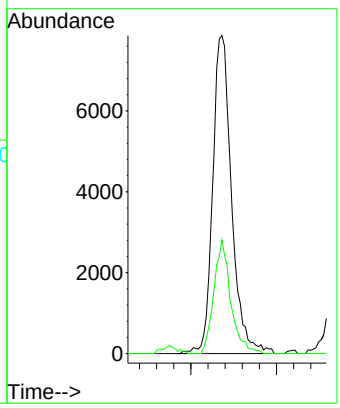
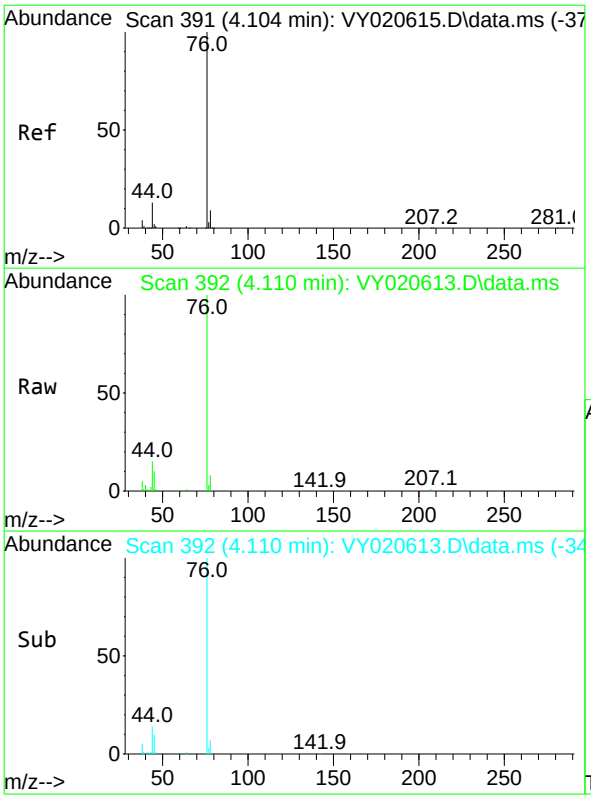



#16
Acetone
Concen: 59.918 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.007 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 24059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.8 | 25.0 | 37.6 |

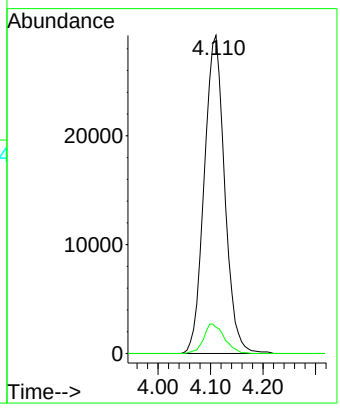





#17
Carbon Disulfide
Concen: 11.348 ug/l
RT: 4.110 min Scan# 39
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 76 Resp: 79000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.2 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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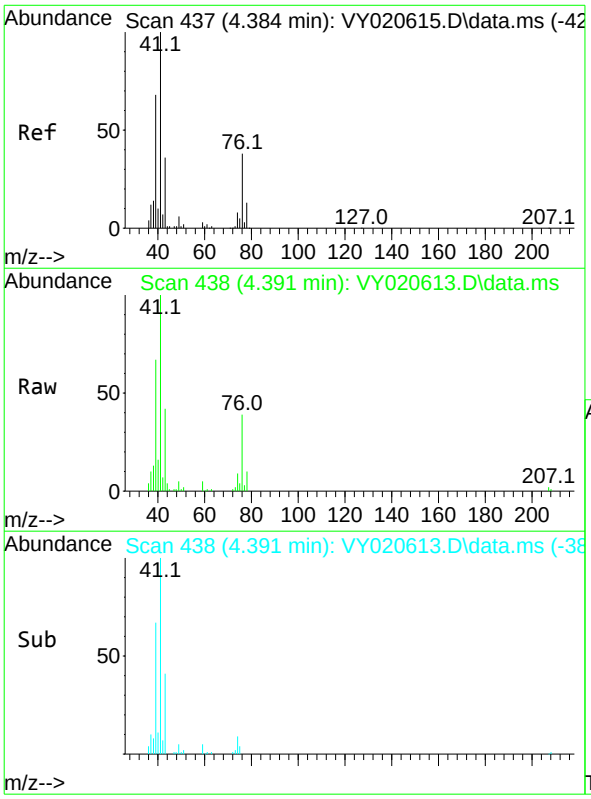
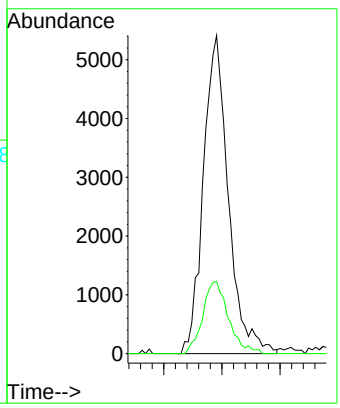
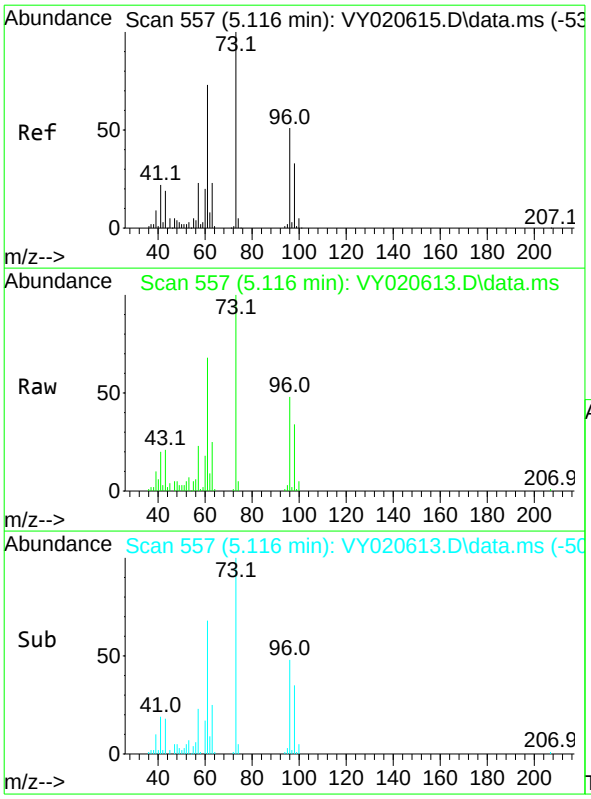



#18
Methyl Acetate
Concen: 12.714 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 16164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.3 | 19.2 | 28.8 |

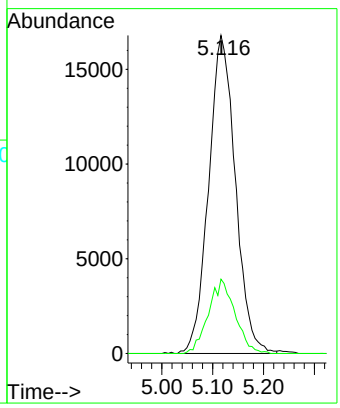





#19
Methyl tert-butyl Ether
Concen: 11.118 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 73 Resp: 61370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.4 | 18.5 | 27.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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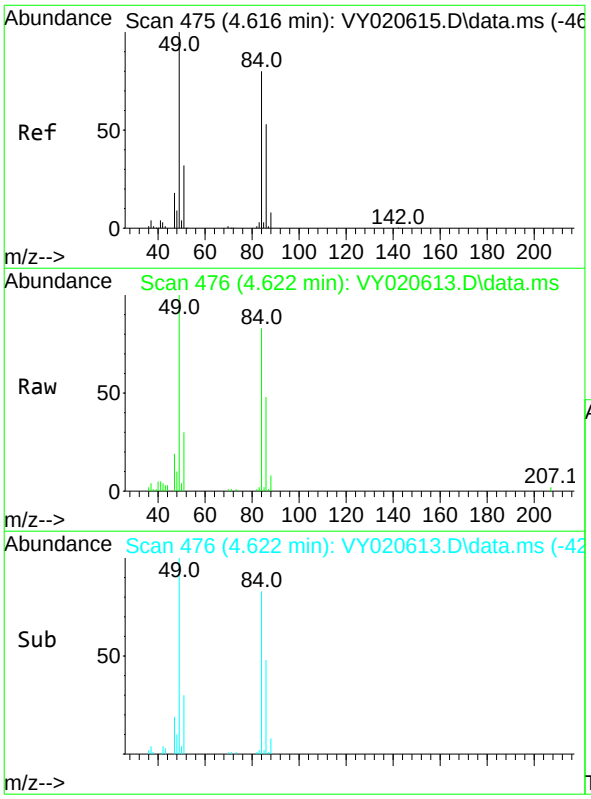
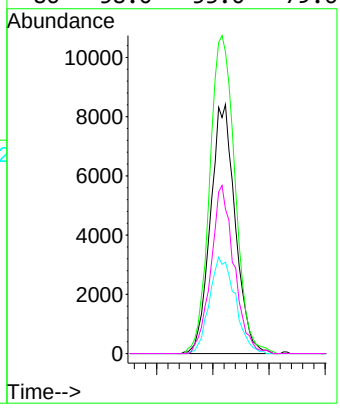
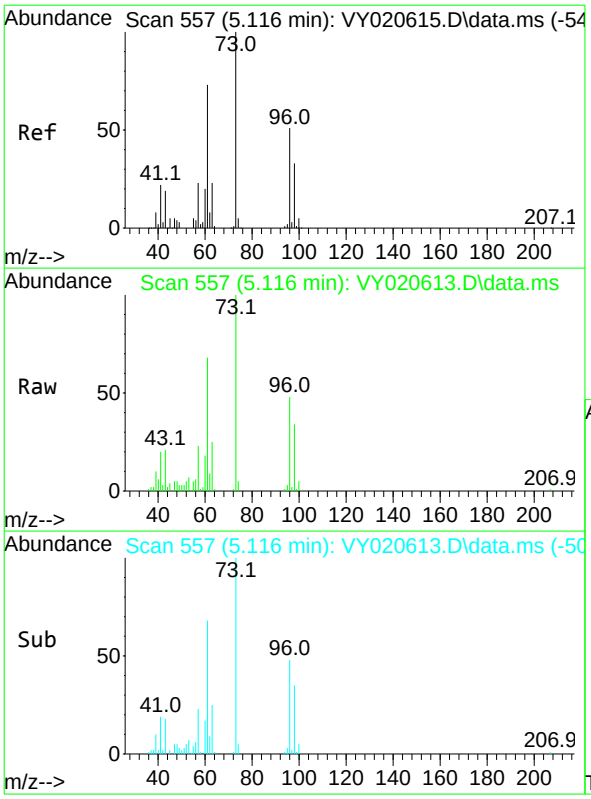



#20
Methylene Chloride
Concen: 11.126 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 84 Resp: 25848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 121.1 | 100.7 | 151.1 |
| 51 | 36.7 | 32.2 | 48.2 |
| 86 | 58.0 | 53.0 | 79.6 |

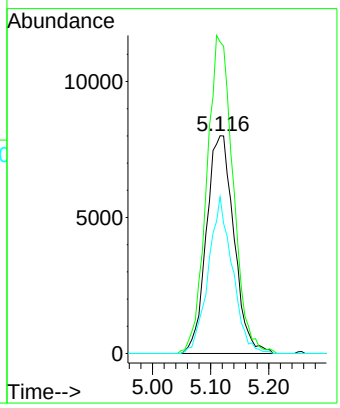





#21
trans-1,2-Dichloroethene
Concen: 10.969 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 96 Resp: 26315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.1 | 113.7 | 170.5 |
| 98 | 71.9 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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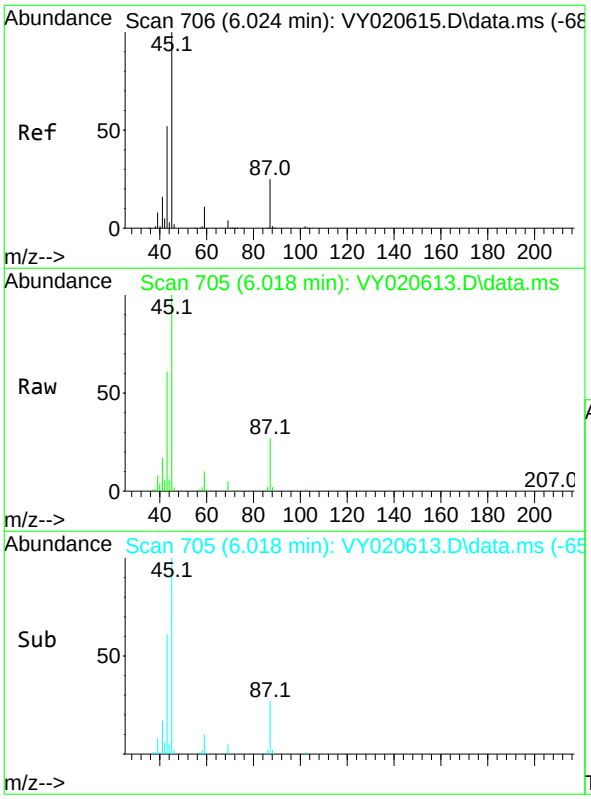
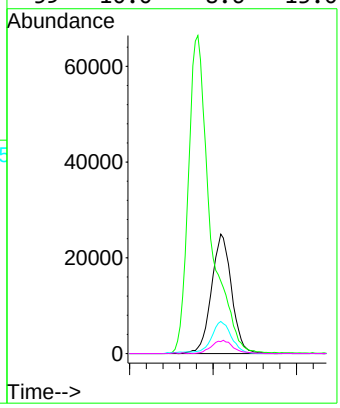
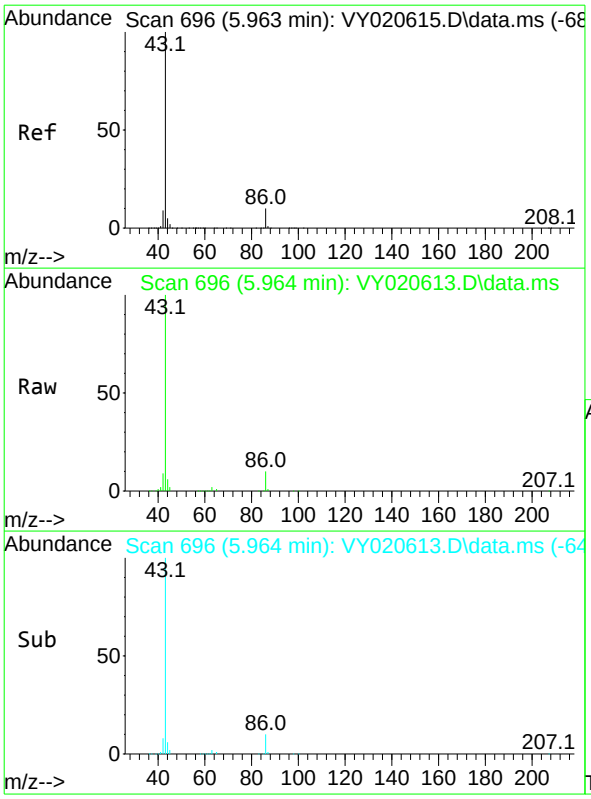



#22
Diisopropyl ether
Concen: 10.997 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 45 Resp: 83653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.8 | 42.6 | 64.0 |
| 87 | 26.9 | 20.6 | 31.0 |
| 59 | 10.0 | 8.6 | 13.0 |

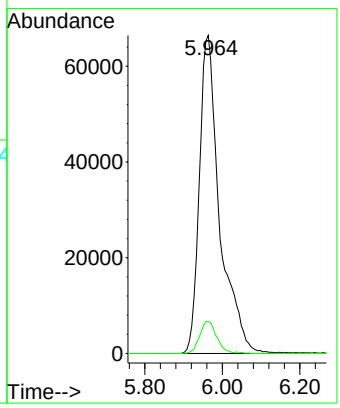





#23
Vinyl Acetate
Concen: 56.147 ug/l
RT: 5.964 min Scan# 69
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 241892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.0 | 8.1 | 12.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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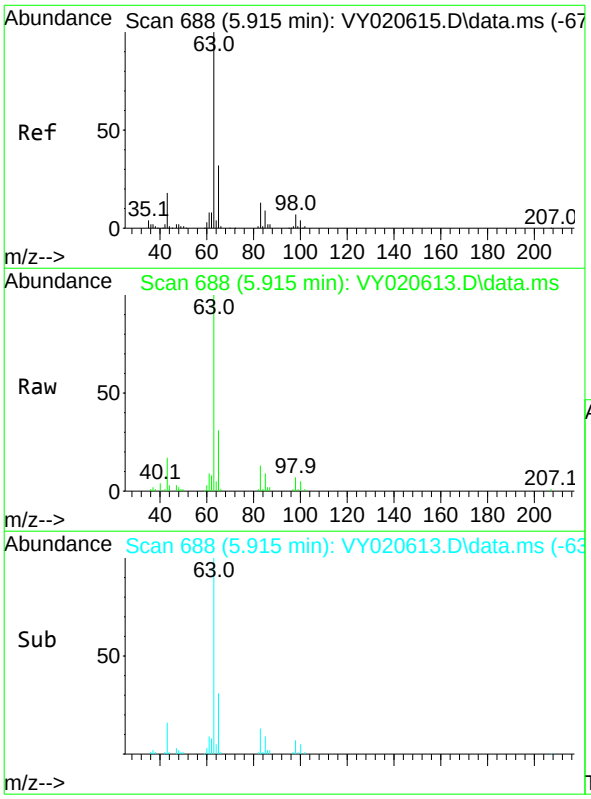
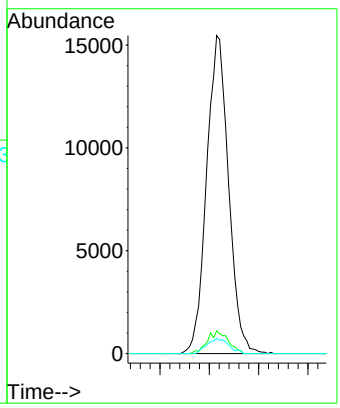
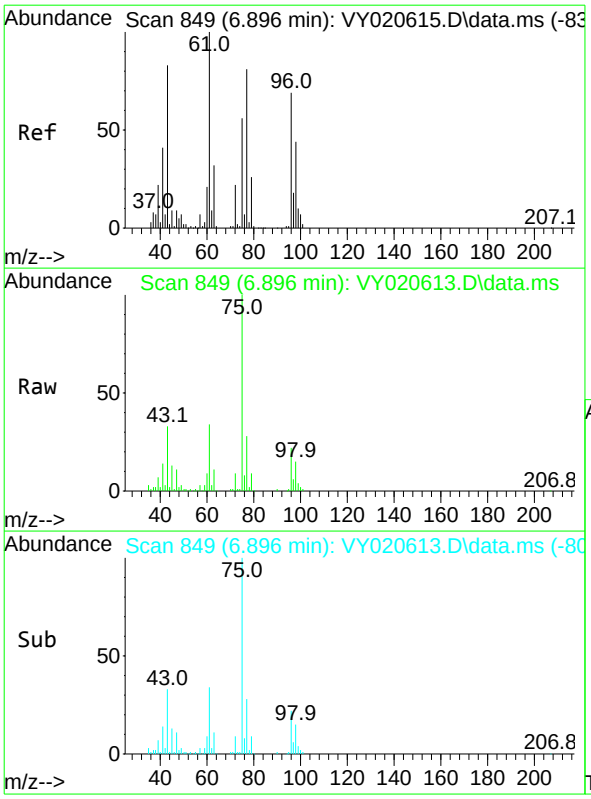



#24
1,1-Dichloroethane
Concen: 10.728 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 63 Resp: 47807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.4 | 10.1 |
| 100 | 4.8 | 2.1 | 6.5 |

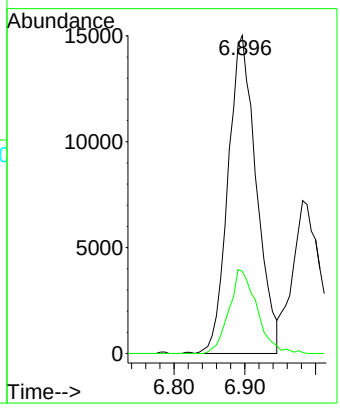





#25
2-Butanone
Concen: 60.169 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 41782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.9 | 20.6 | 31.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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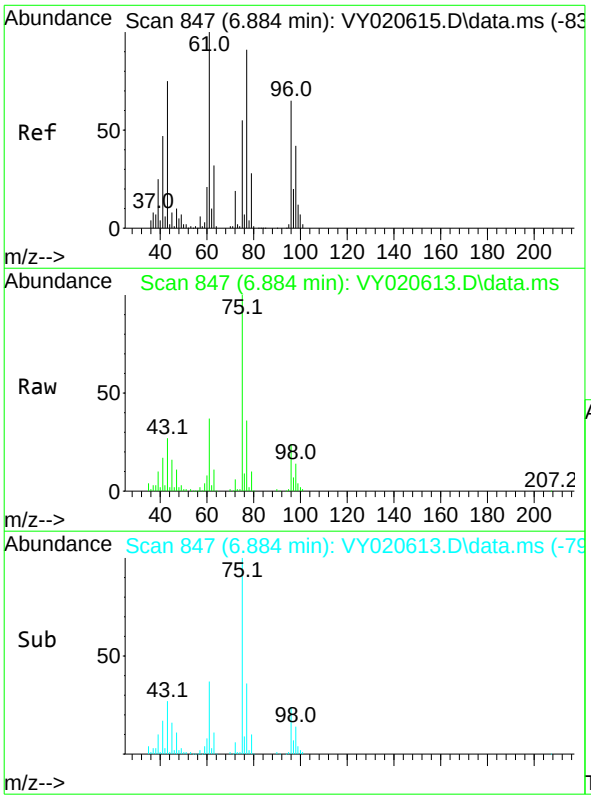
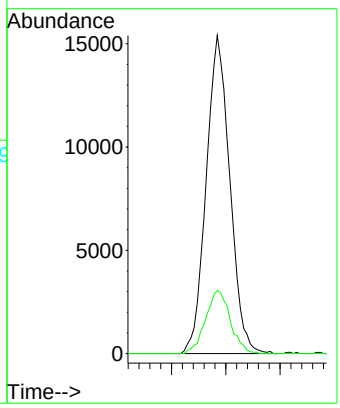
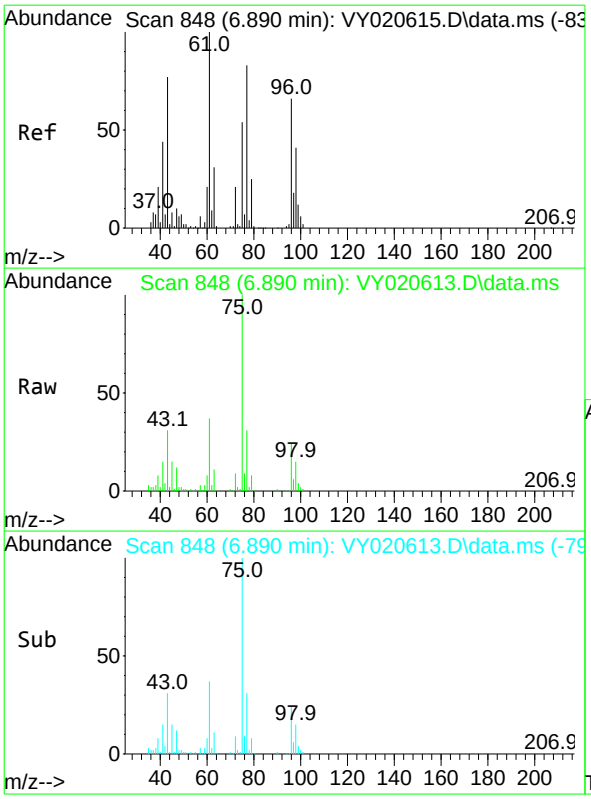



#26
2,2-Dichloropropane
Concen: 11.067 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 77 Resp: 46620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 20.7 | 10.9 | 32.6 |

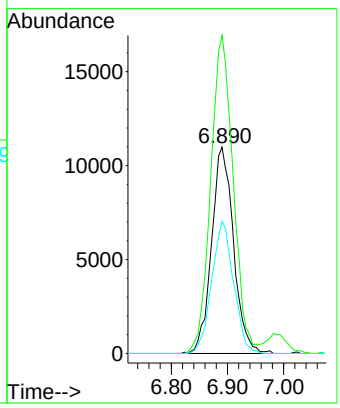





#27
cis-1,2-Dichloroethene
Concen: 10.812 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 96 Resp: 29841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.3 | 0.0 | 306.2 |
| 98 | 63.9 | 0.0 | 127.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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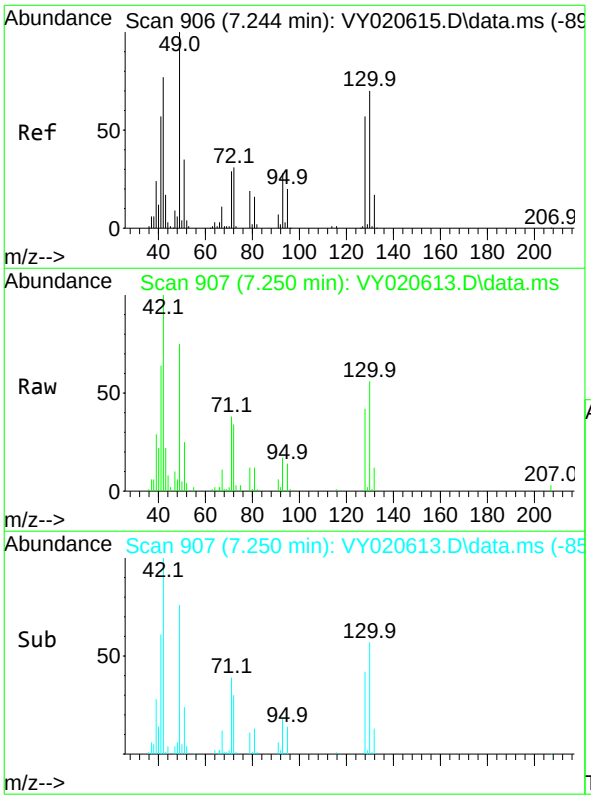
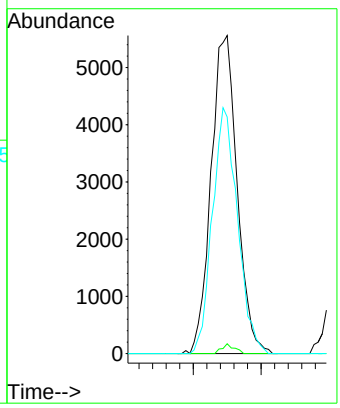
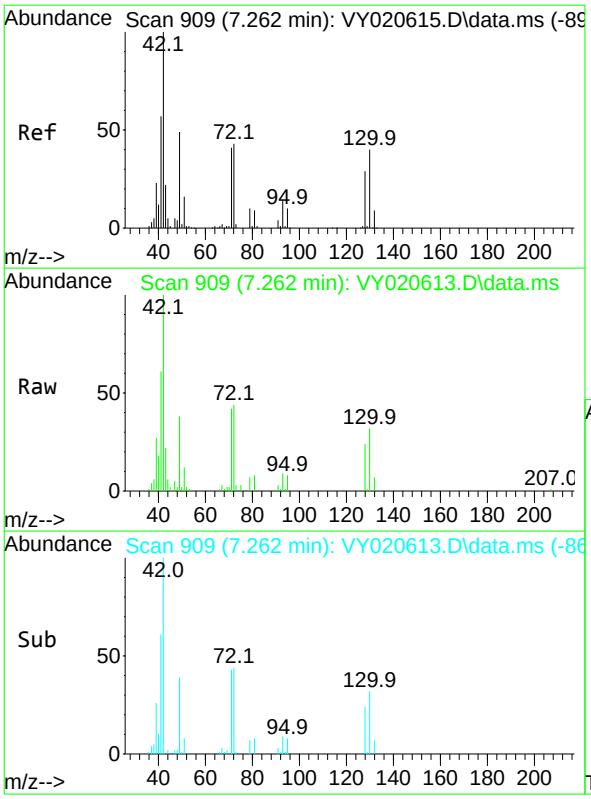



#28
Bromochloromethane
Concen: 9.894 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 49 Resp: 14872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.5 | 0.0 | 3.8 |
| 130 | 74.6 | 58.3 | 87.5 |

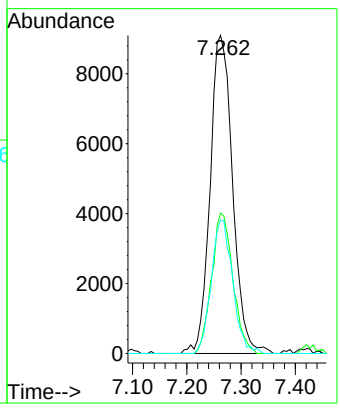





#29
Tetrahydrofuran
Concen: 59.842 ug/l
RT: 7.262 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 42 Resp: 26233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.8 | 34.0 | 51.0 |
| 71 | 39.9 | 31.6 | 47.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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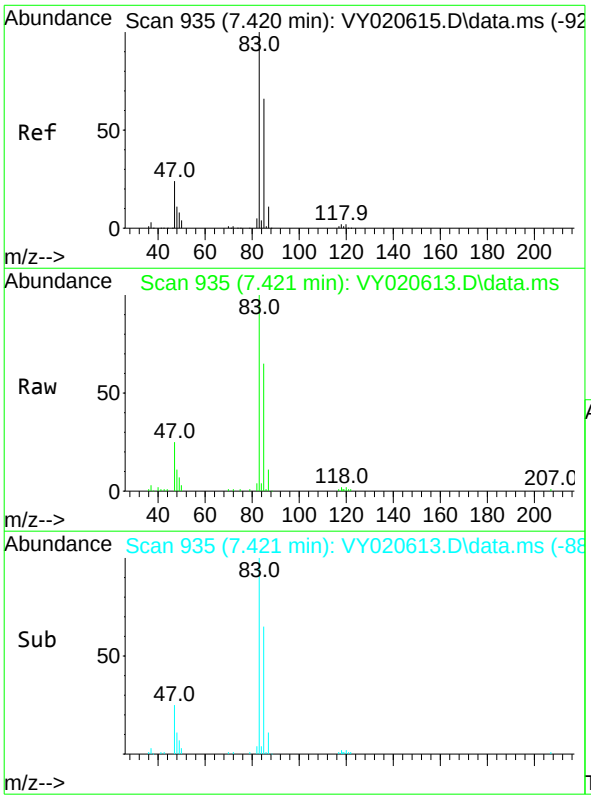
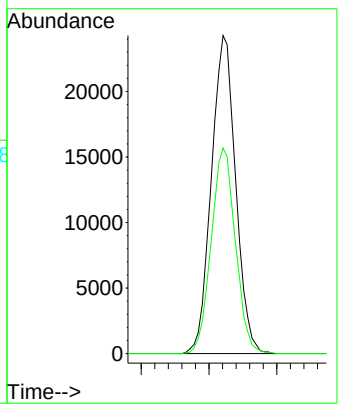
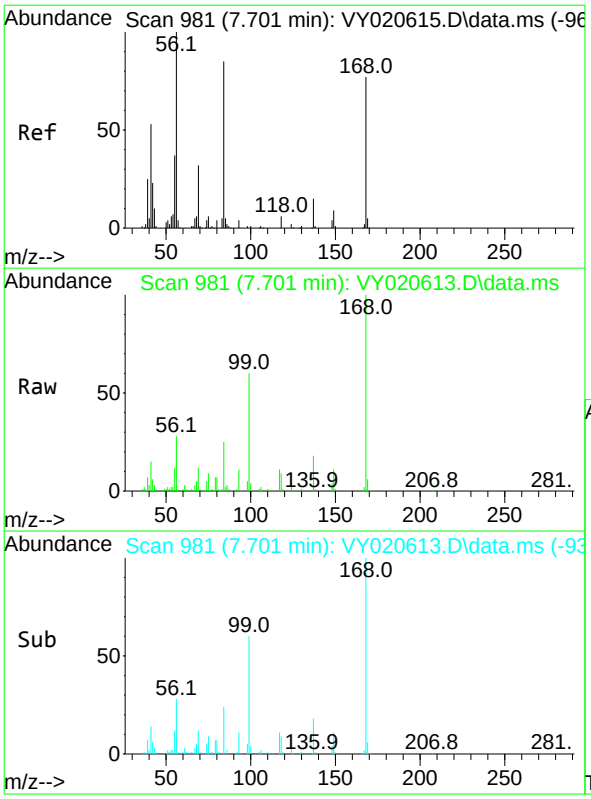



#30
Chloroform
Concen: 9.156 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 83 Resp: 60327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.6 | 52.7 | 79.1 |

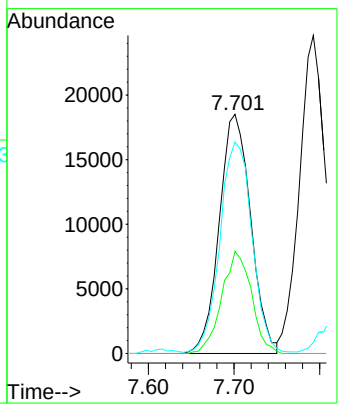





#31
Cyclohexane
Concen: 11.117 ug/l
RT: 7.701 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 56 Resp: 47368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 42.7 | 25.4 | 38.0# |
| 84 | 87.5 | 68.3 | 102.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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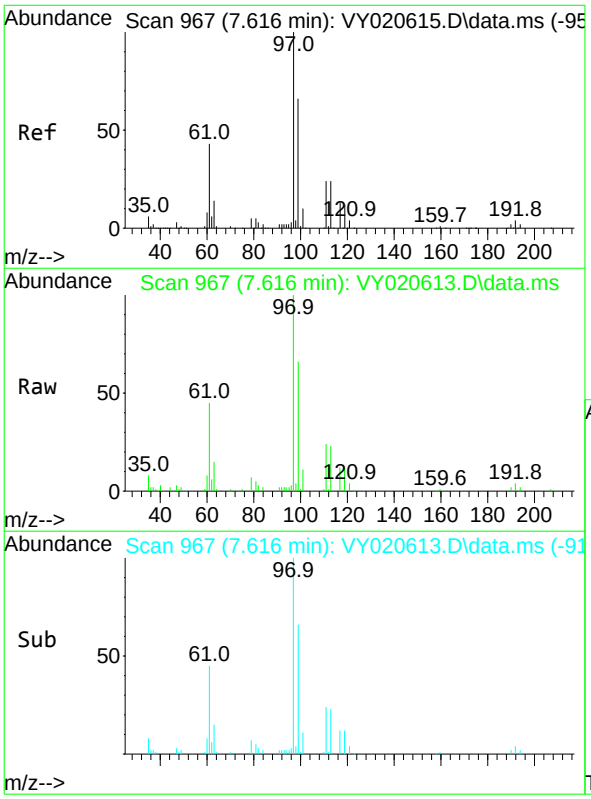
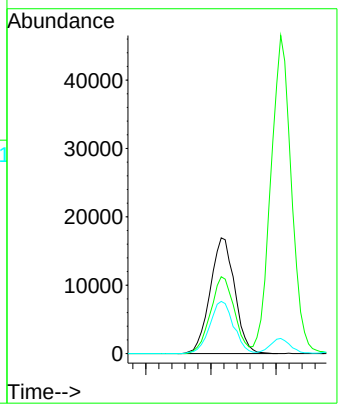
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

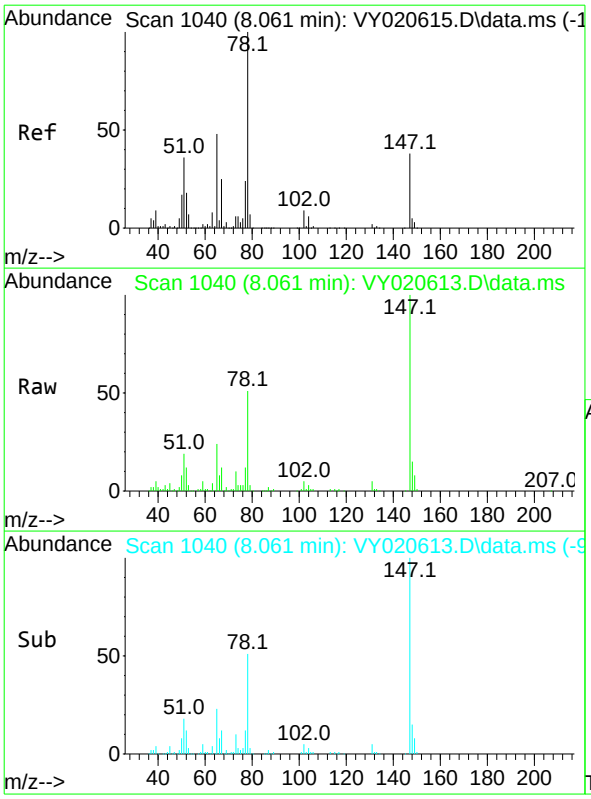



#32
1,1,1-Trichloroethane
Concen: 10.820 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 97 Resp: 44299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 43.9 | 34.7 | 52.1 |

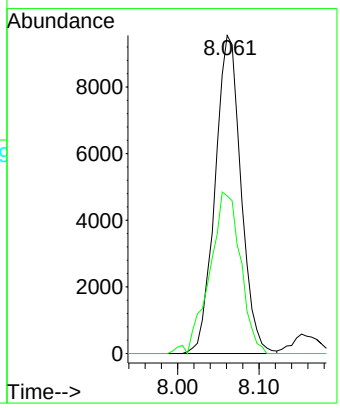





#33
1,2-Dichloroethane-d4
Concen: 11.310 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 65 Resp: 21133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 60.4 | 0.0 | 108.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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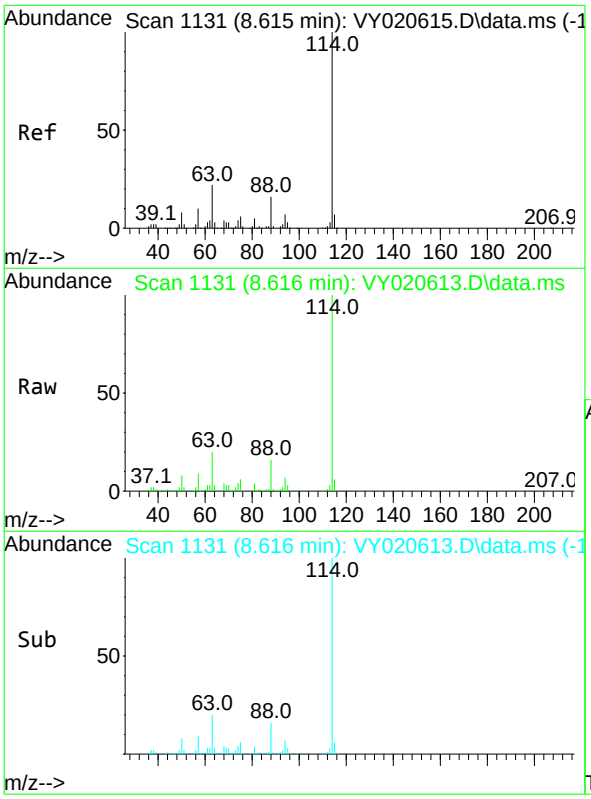
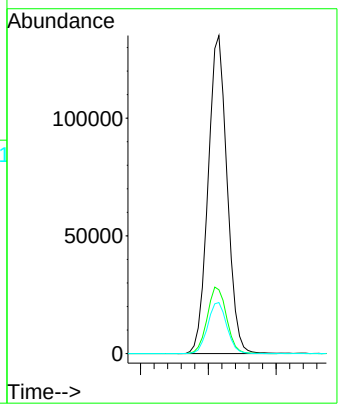
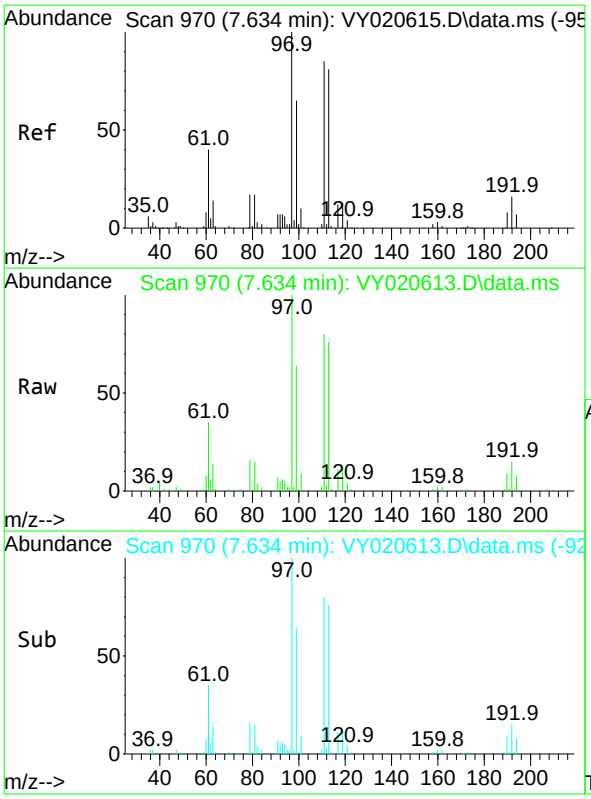



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:114 Resp: 263150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.1 | 0.0 | 44.0 |
| 88 | 16.0 | 0.0 | 32.8 |

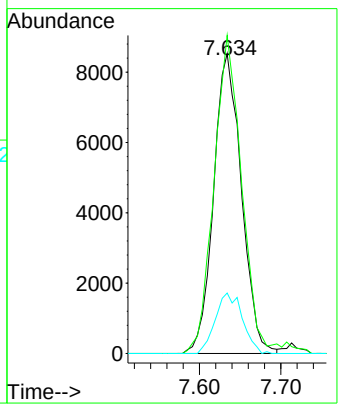





#35
Dibromofluoromethane
Concen: 10.925 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:113 Resp: 20262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.9 | 82.9 | 124.3 |
| 192 | 19.7 | 15.7 | 23.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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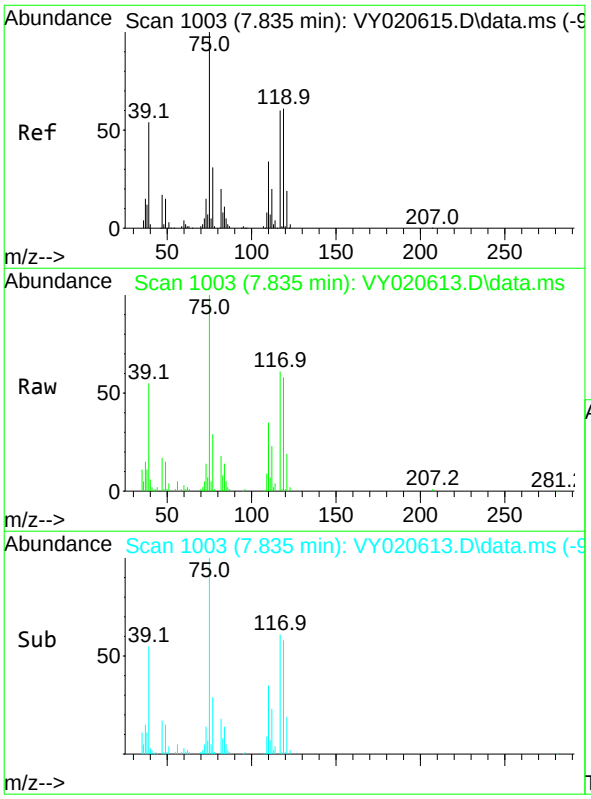
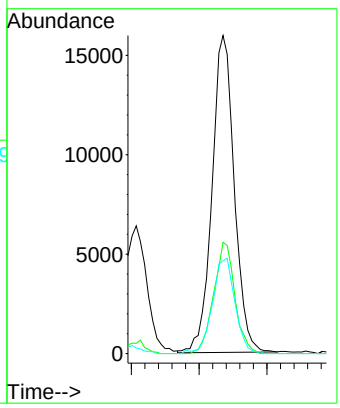
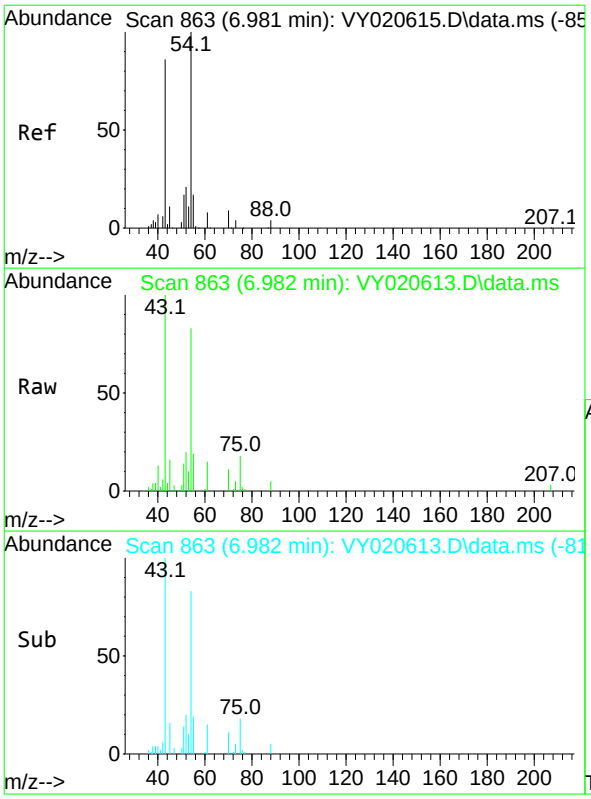



#36
1,1-Dichloropropene
Concen: 10.748 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 75 Resp: 36347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.4 | 16.8 | 50.4 |
| 77 | 30.7 | 25.0 | 37.6 |

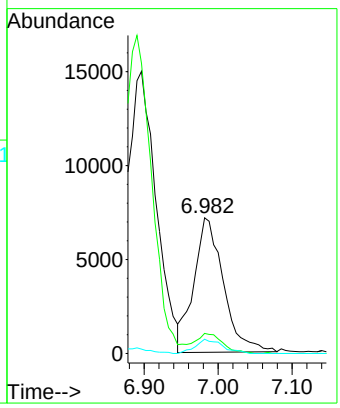





#37
Ethyl Acetate
Concen: 12.541 ug/l
RT: 6.982 min Scan# 86
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 19950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.6 | 11.0 | 16.4 |
| 70 | 9.6 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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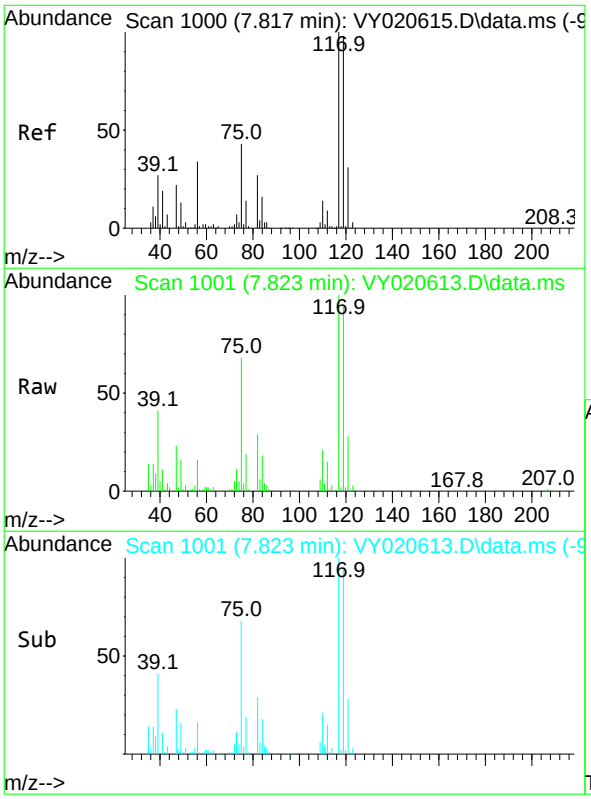
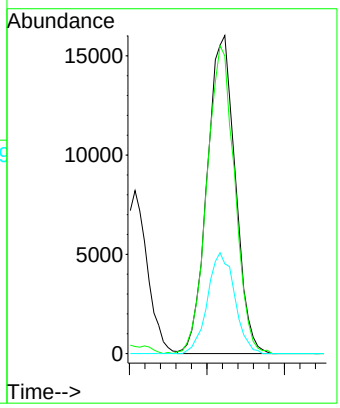
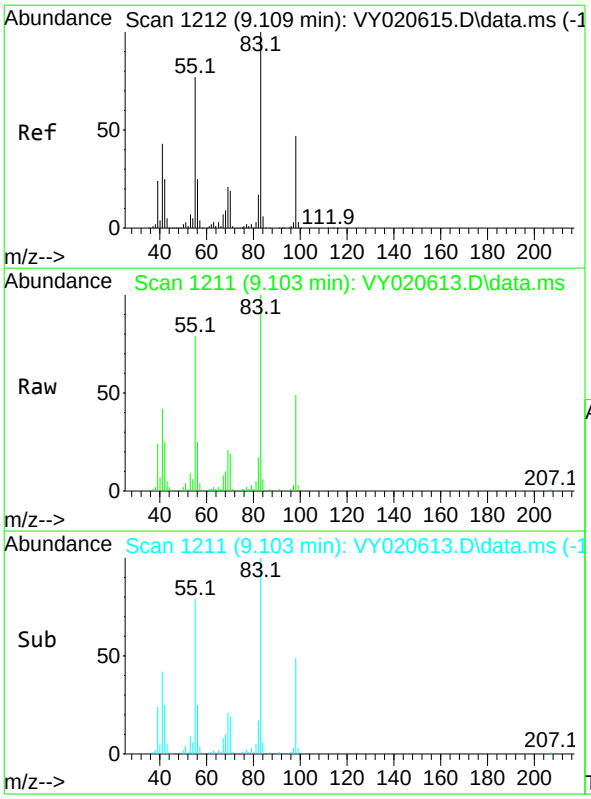



#38
Carbon Tetrachloride
Concen: 10.796 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:117 Resp: 40394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.6 | 78.3 | 117.5 |
| 121 | 28.2 | 25.1 | 37.7 |

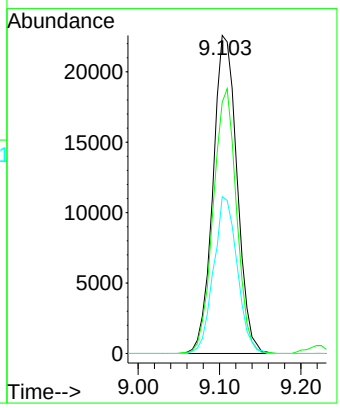





#39
Methylcyclohexane
Concen: 10.541 ug/l
RT: 9.103 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 83 Resp: 46462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 79.0 | 61.4 | 92.0 |
| 98 | 49.3 | 37.3 | 55.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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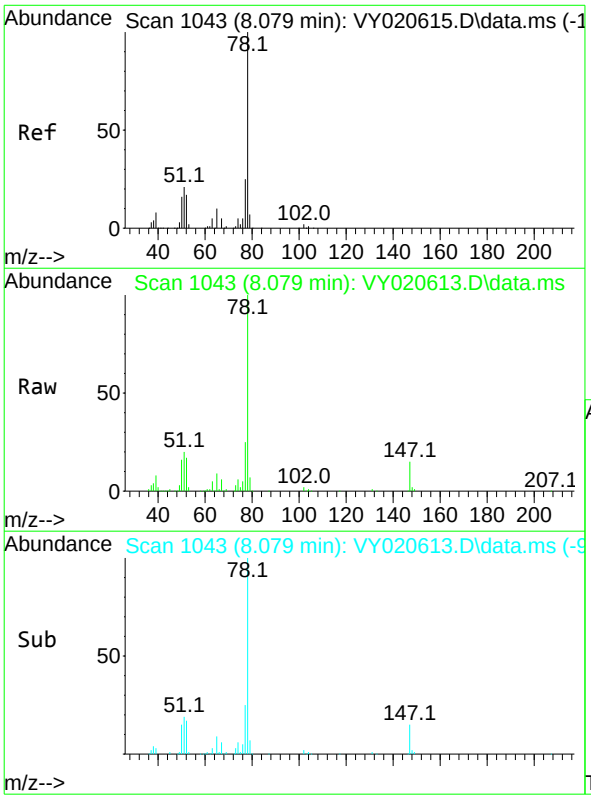
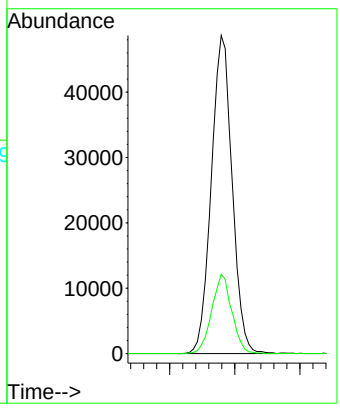
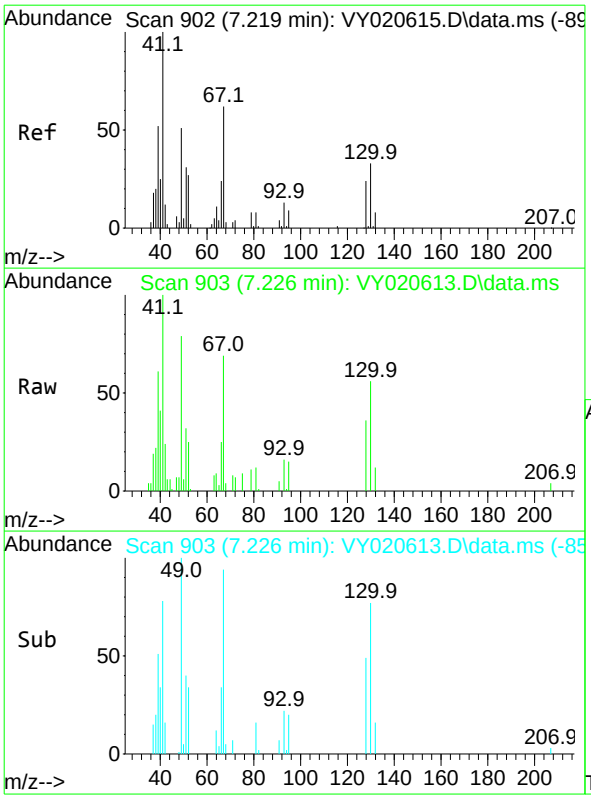



#40
Benzene
Concen: 10.910 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 78 Resp: 108150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.0 | 20.1 | 30.1 |

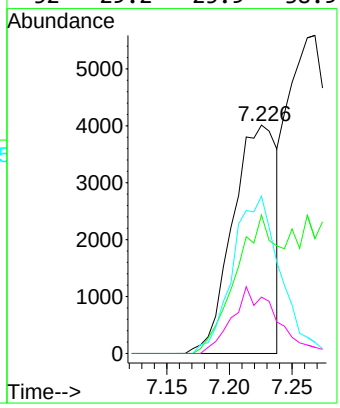





#41
Methacrylonitrile
Concen: 11.653 ug/l
RT: 7.226 min Scan# 90
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 41 Resp: 9800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 61.3 | 53.6 | 80.4 |
| 67 | 74.4 | 62.0 | 93.0 |
| 52 | 29.2 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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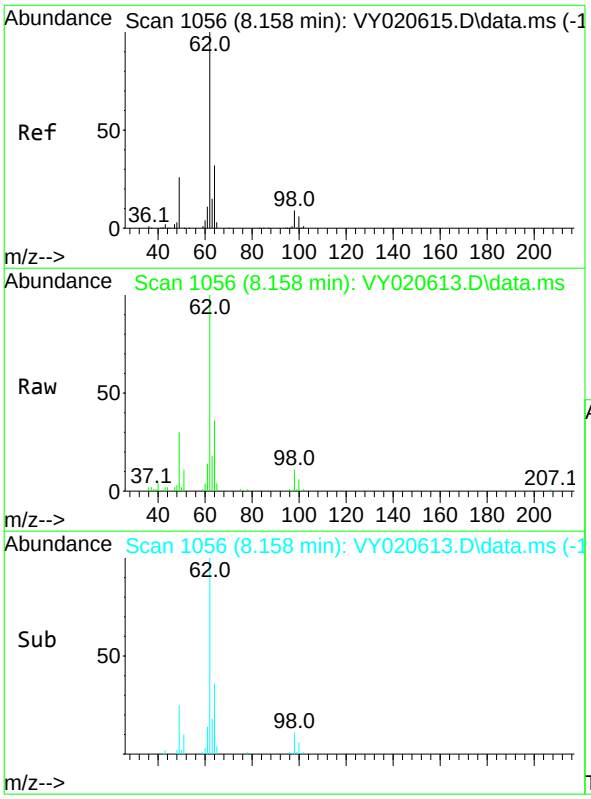
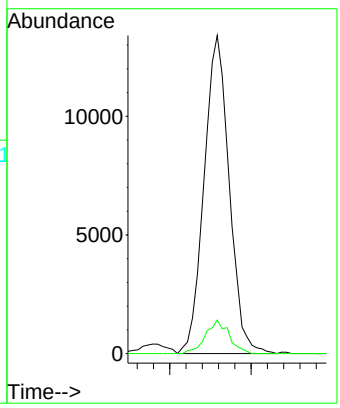
Supervised By :Semsettin Yesilyurt 12/18/2024

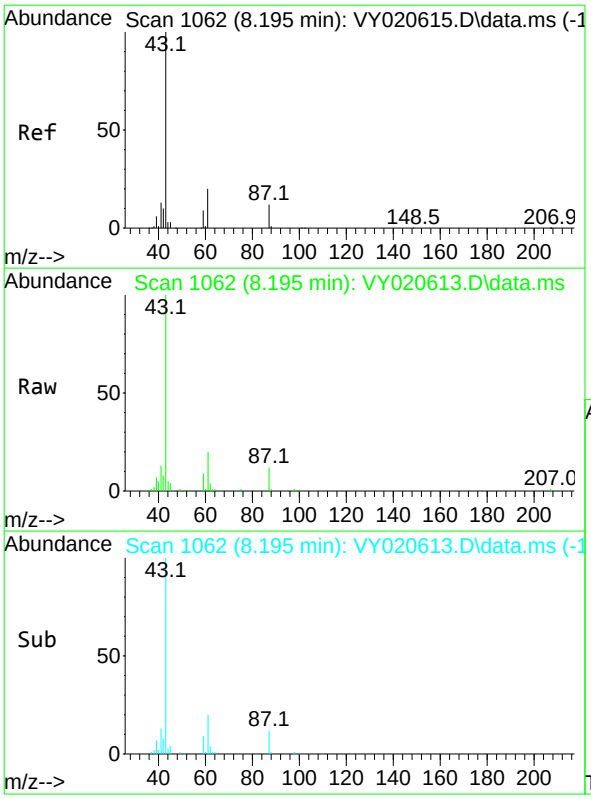



#42
1,2-Dichloroethane
Concen: 10.931 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 62 Resp: 28739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 18.0 |

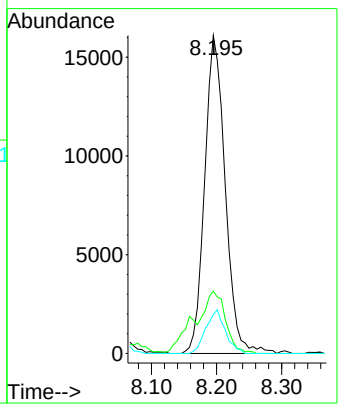





#43
Isopropyl Acetate
Concen: 11.721 ug/l
RT: 8.195 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 35299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.6 | 23.8 | 35.6# |
| 87 | 13.0 | 10.2 | 15.4 |




**Instrument :**
MSVOA_Y
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VSTDICC010

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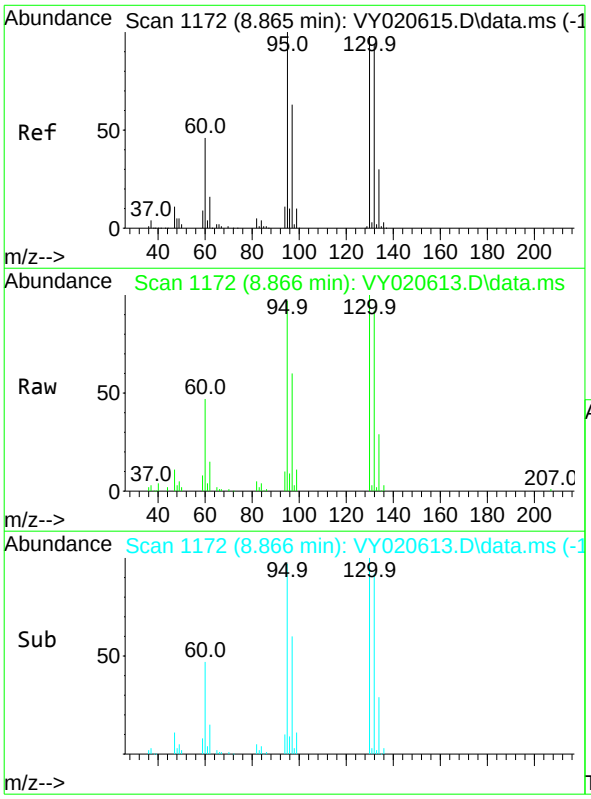
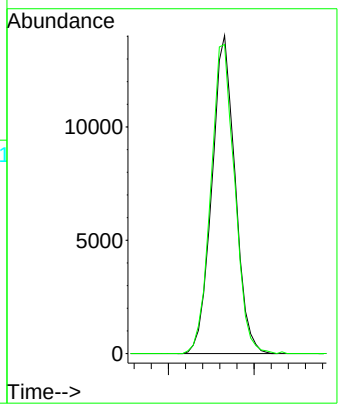
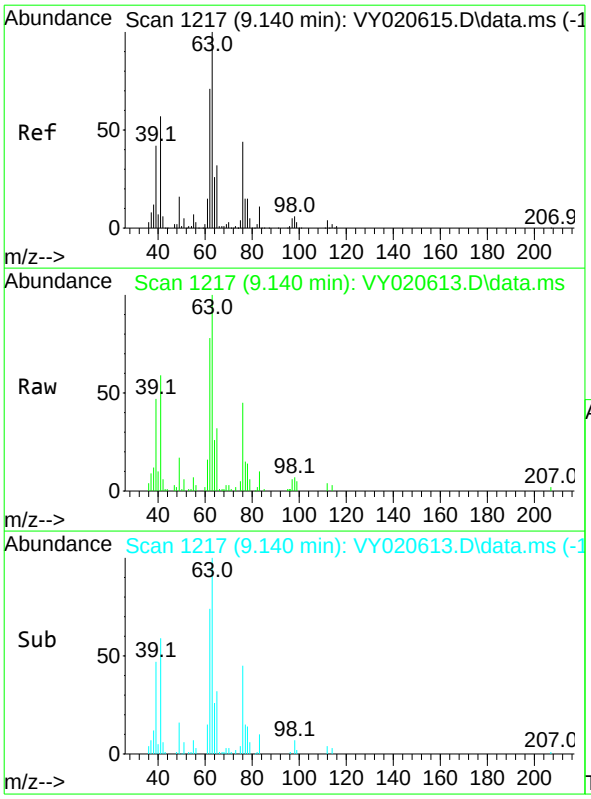



#44
Trichloroethene
Concen: 10.834 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:130 Resp: 26388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.2 | 0.0 | 203.2 |

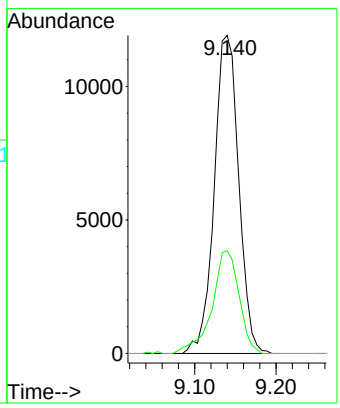





#45
1,2-Dichloropropane
Concen: 10.743 ug/l
RT: 9.140 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 63 Resp: 24889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.3 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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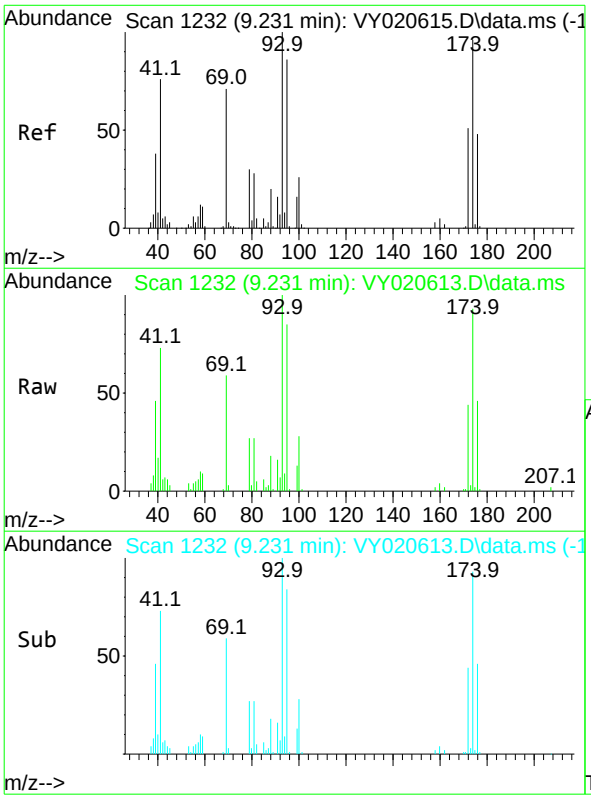
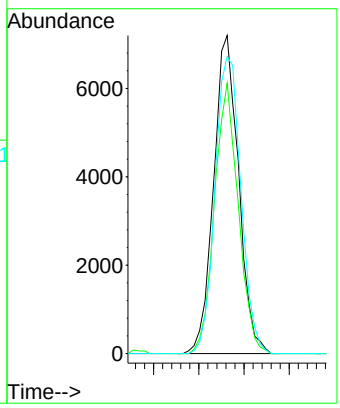
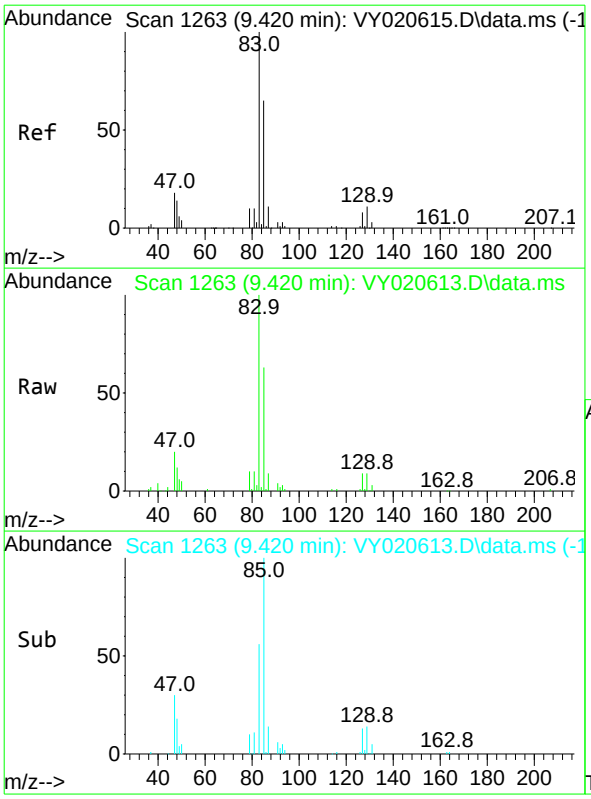



#46
Dibromomethane
Concen: 11.242 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 93 Resp: 13764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.2 | 66.7 | 100.1 |
| 174 | 97.0 | 77.8 | 116.6 |

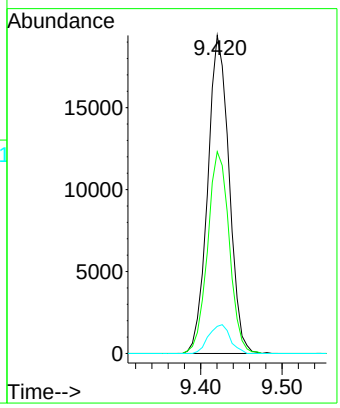





#47
Bromodichloromethane
Concen: 10.689 ug/l
RT: 9.420 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 83 Resp: 35352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 52.1 | 78.1 |
| 127 | 8.5 | 6.7 | 10.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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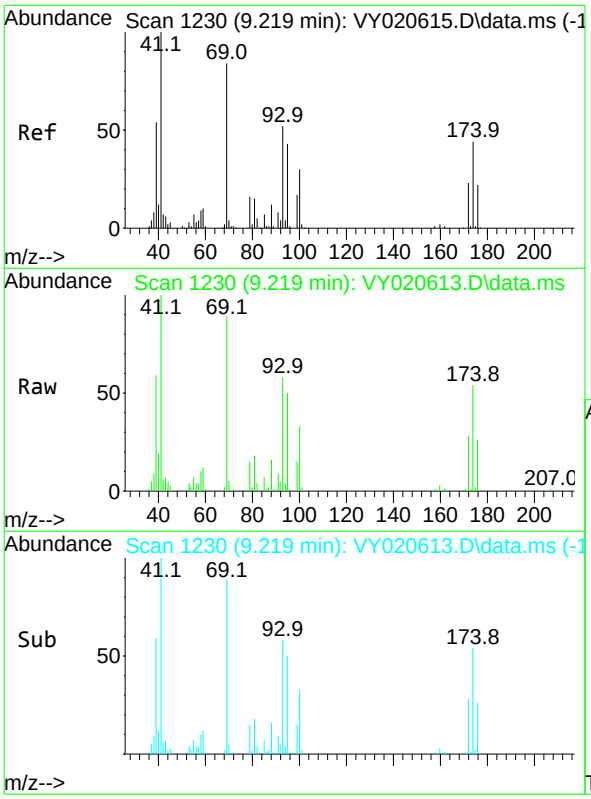
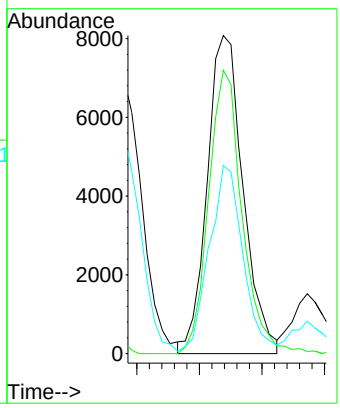
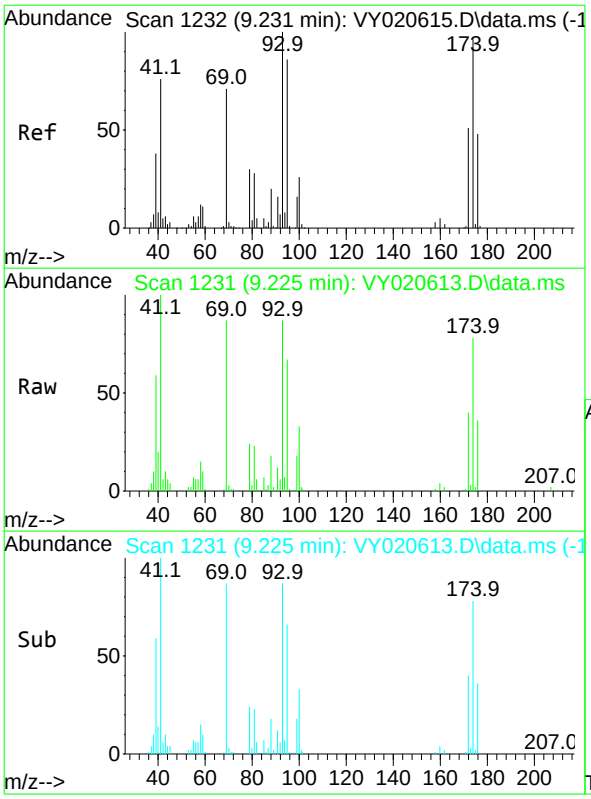



#48
Methyl methacrylate
Concen: 11.218 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 41 Resp: 16060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.4 | 67.2 | 100.8 |
| 39 | 54.3 | 42.2 | 63.4 |






#49
1,4-Dioxane
Concen: 237.872 ug/l
RT: 9.225 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

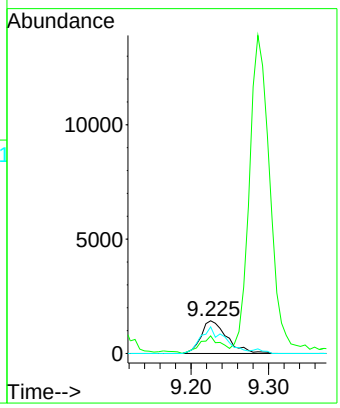
Tgt Ion: 88 Resp: 3340

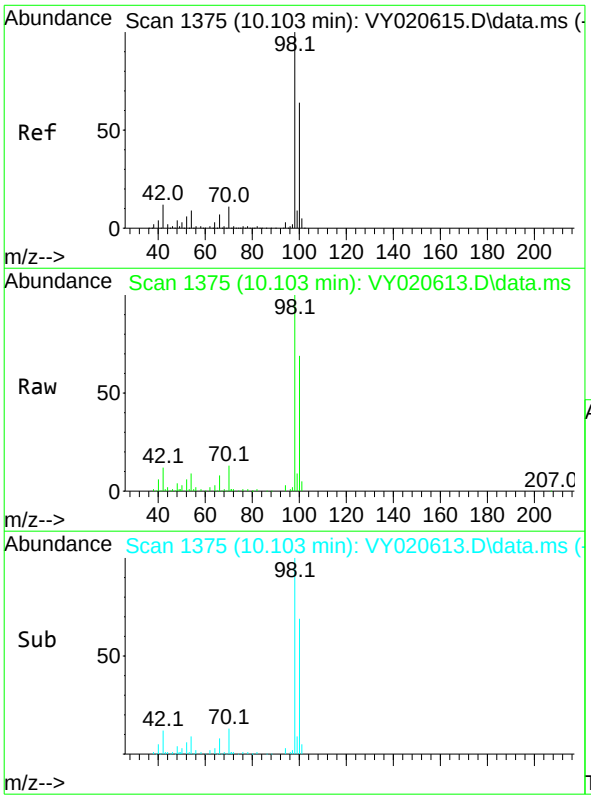
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 42.2 | 27.6 | 41.4# |
| 58 | 76.6 | 61.7 | 92.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

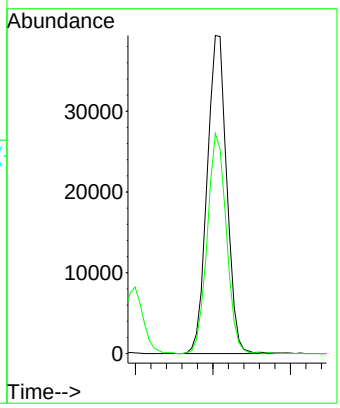


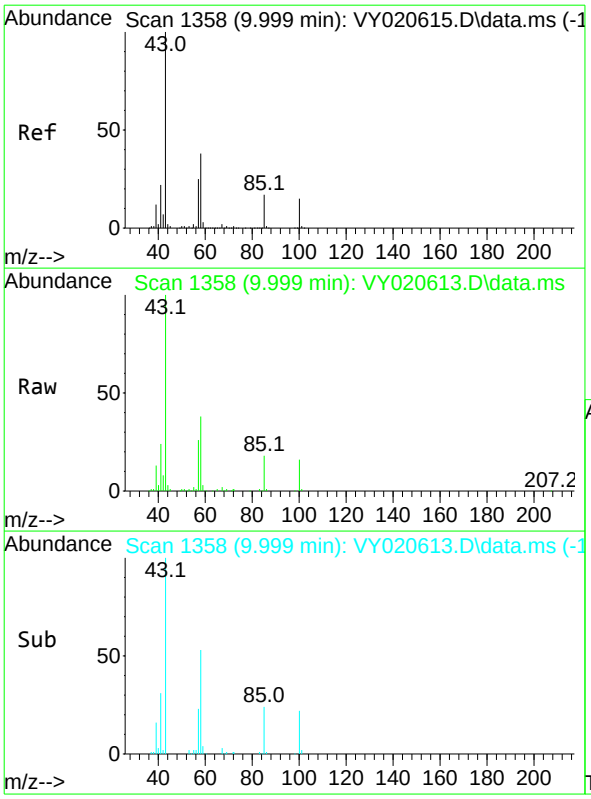




#50
Toluene-d8
Concen: 10.653 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 98 Resp: 69155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 67.3 | 52.1 | 78.1 |

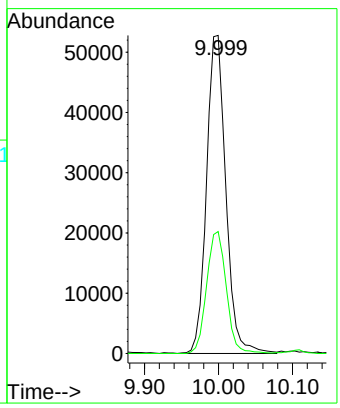





#51
4-Methyl-2-Pentanone
Concen: 60.180 ug/l
RT: 9.999 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 95663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.0 | 31.4 | 47.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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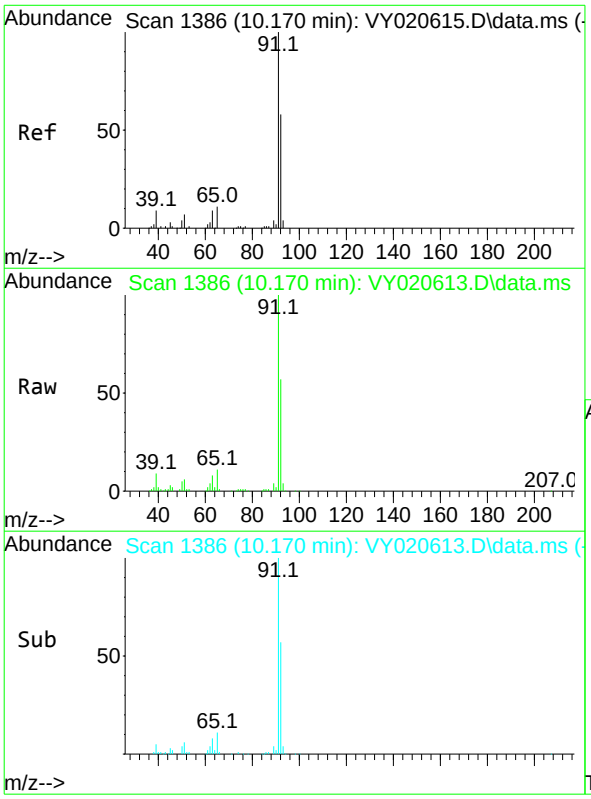
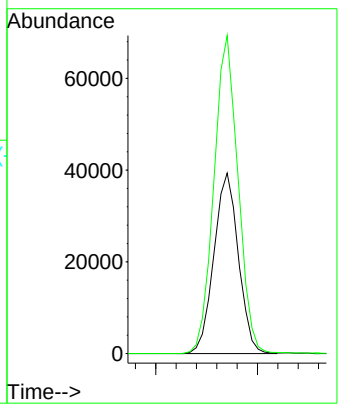
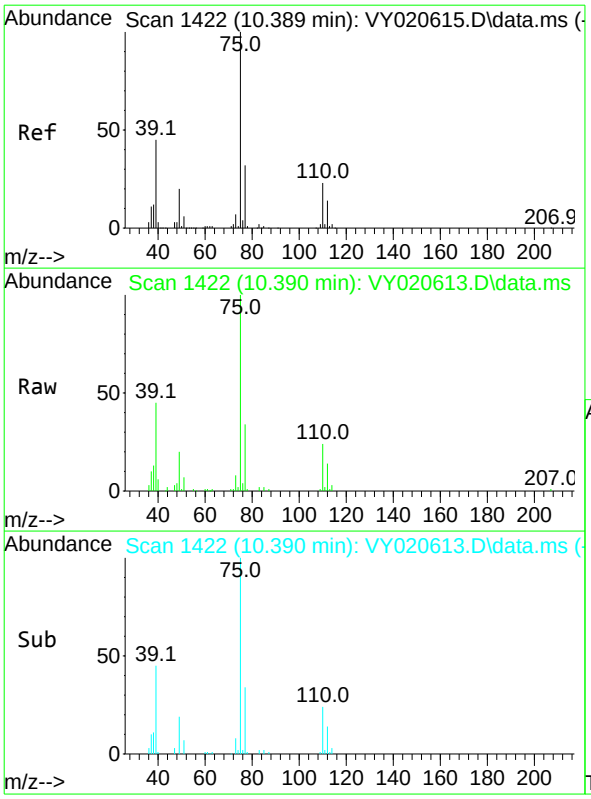



#52
Toluene
Concen: 10.657 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 92 Resp: 65651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.4 | 137.4 | 206.0 |

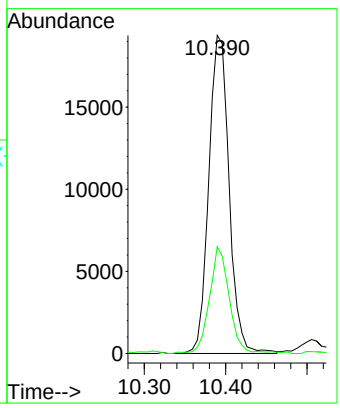





#53
t-1,3-Dichloropropene
Concen: 10.892 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 75 Resp: 33566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.2 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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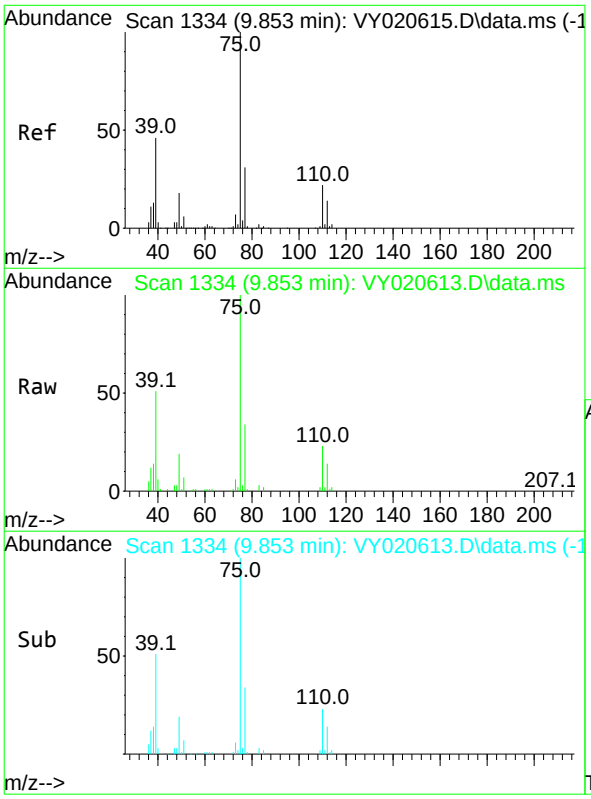
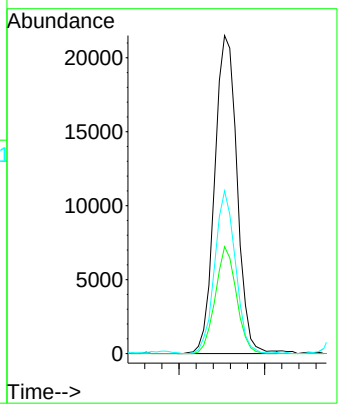
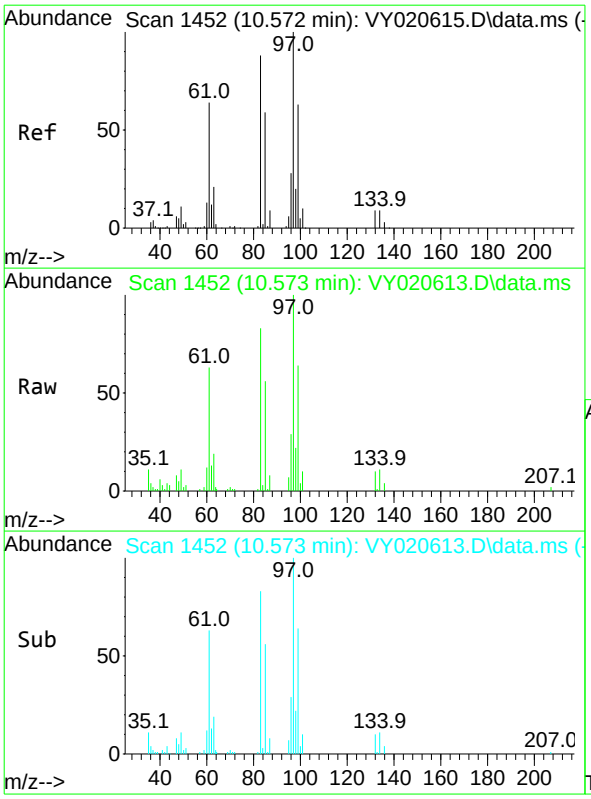



#54
cis-1,3-Dichloropropene
Concen: 10.698 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 75 Resp: 39068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.6 | 24.6 | 36.8 |
| 39 | 50.9 | 36.4 | 54.6 |

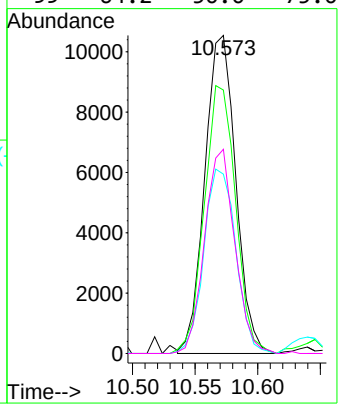





#55
1,1,2-Trichloroethane
Concen: 11.181 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 97 Resp: 18100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.8 | 70.4 | 105.6 |
| 85 | 56.4 | 47.2 | 70.8 |
| 99 | 64.2 | 50.0 | 75.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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Reviewed By :Mahesh Dadoda 12/18/2024
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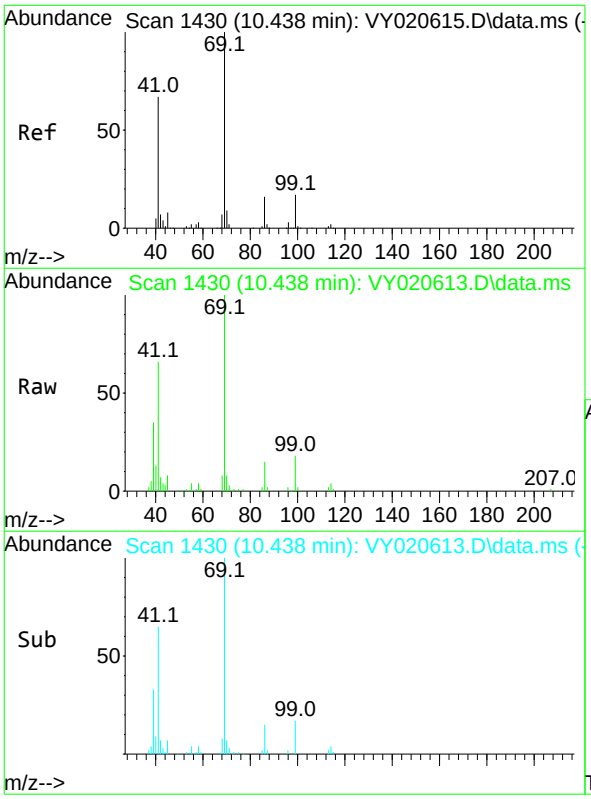
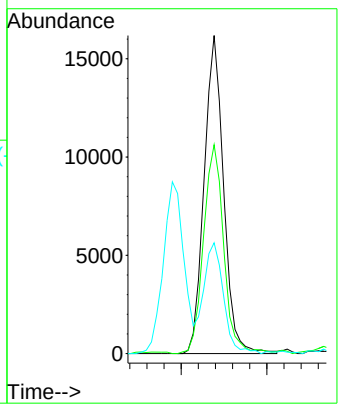
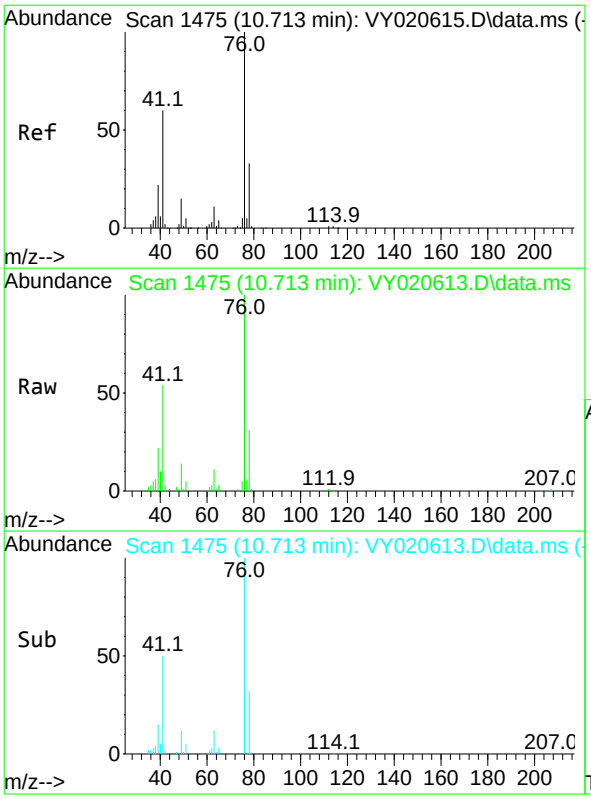



#56
Ethyl methacrylate
Concen: 10.877 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 69 Resp: 25543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 68.1 | 54.0 | 81.0 |
| 39 | 36.0 | 27.9 | 41.9 |

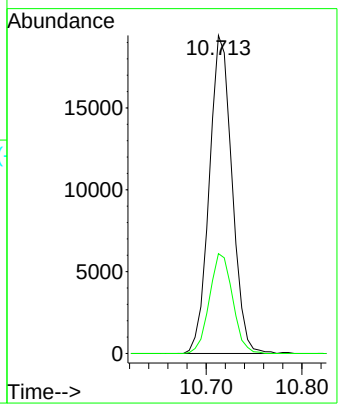





#57
1,3-Dichloropropane
Concen: 11.099 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 76 Resp: 32029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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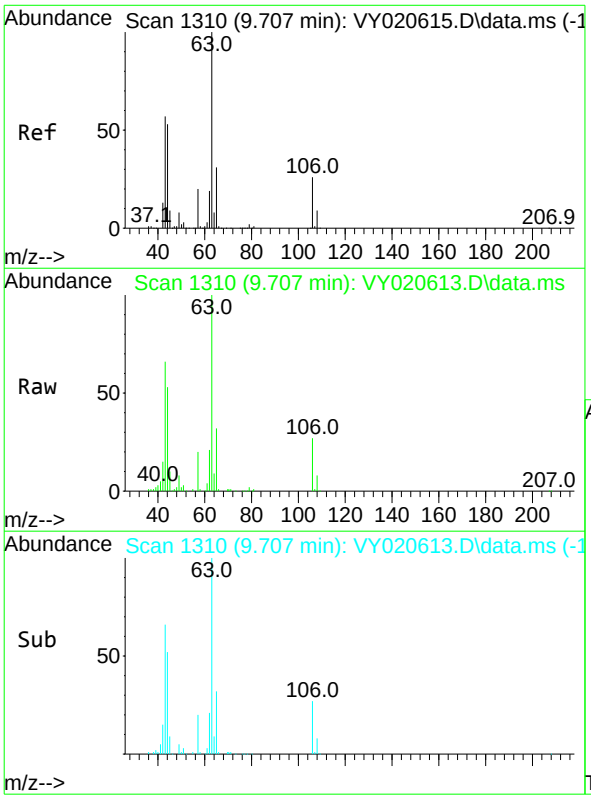
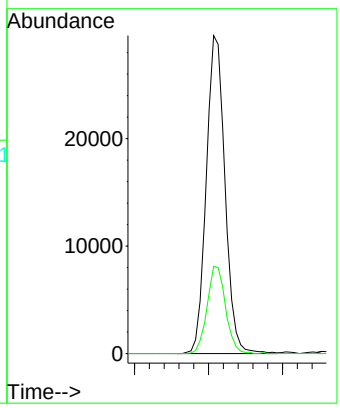
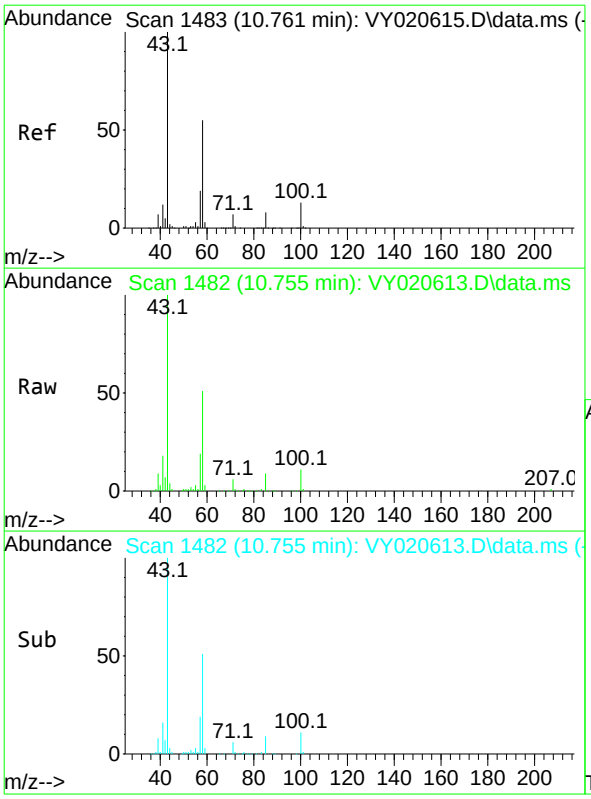



#58
2-Chloroethyl Vinyl ether
Concen: 52.537 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 63 Resp: 51913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.1 | 21.5 | 32.3 |

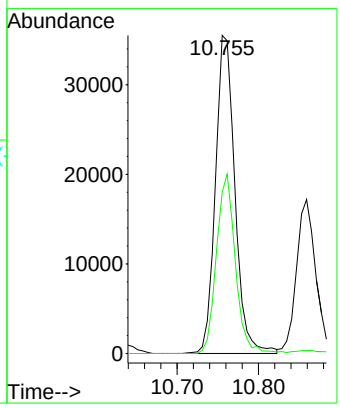





#59
2-Hexanone
Concen: 57.933 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 59126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.7 | 27.2 | 81.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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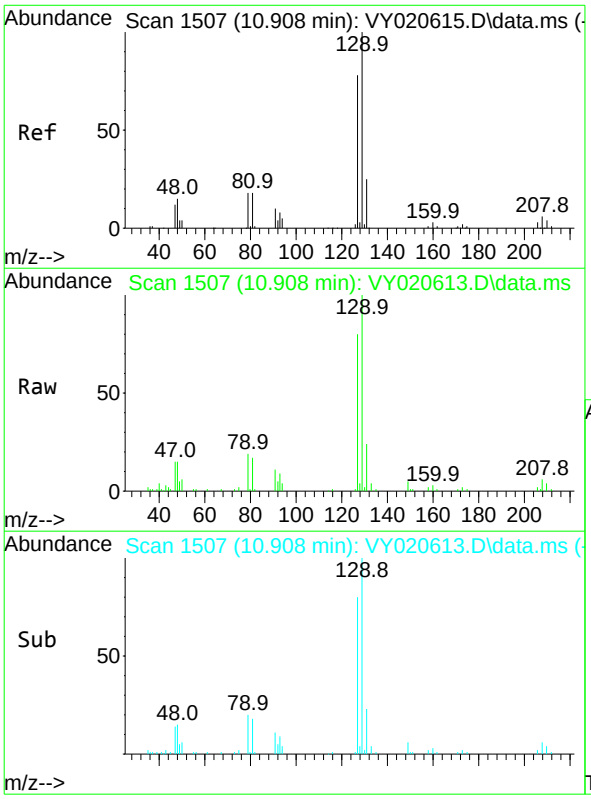
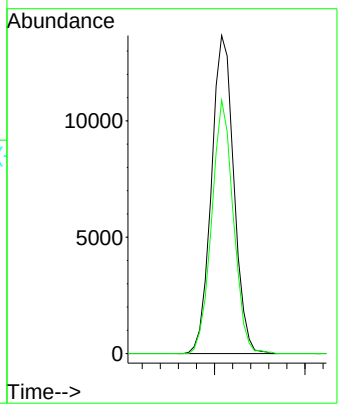
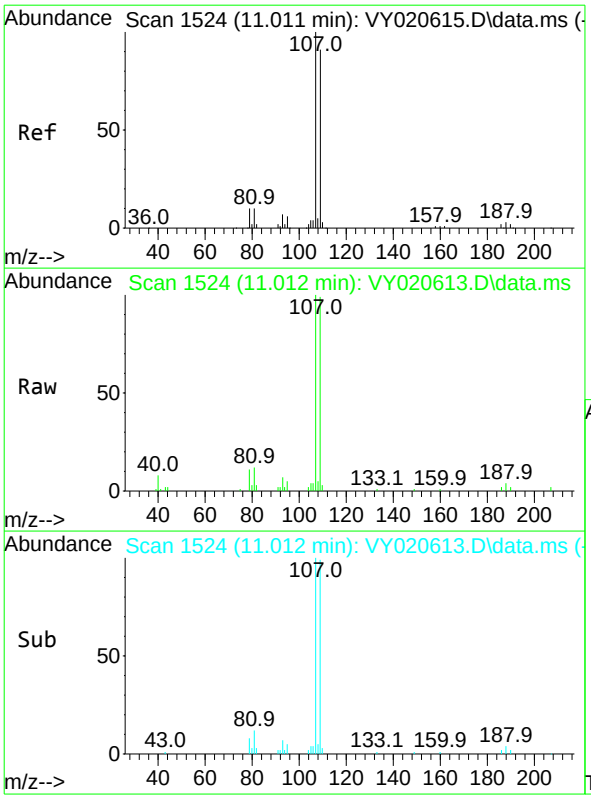



#60
Dibromochloromethane
Concen: 10.878 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:129 Resp: 23549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.9 | 38.1 | 114.3 |






#61
1,2-Dibromoethane
Concen: 11.162 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:107 Resp: 16807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.2 | 75.4 | 113.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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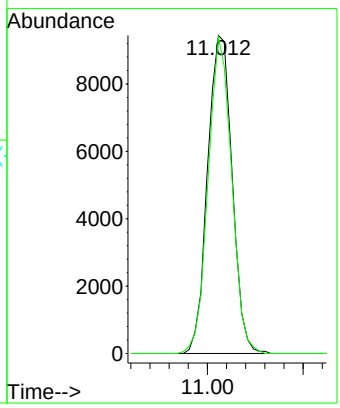
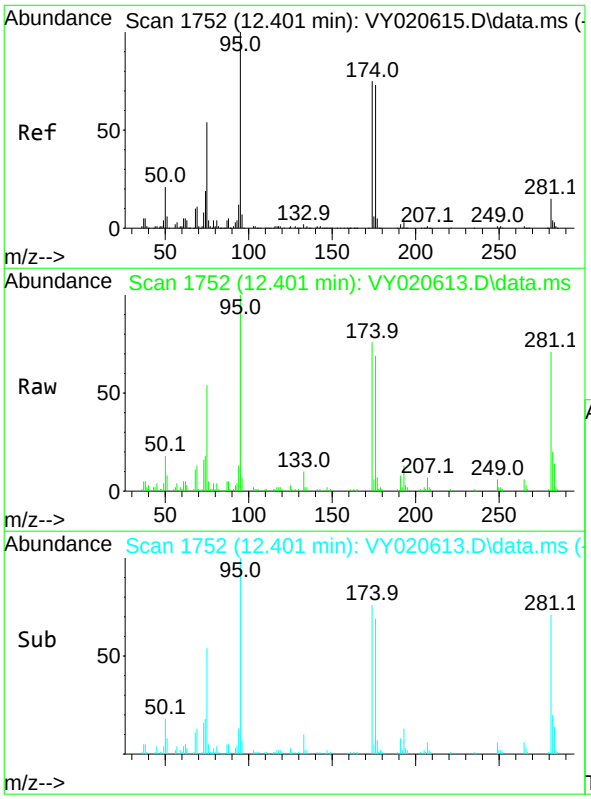
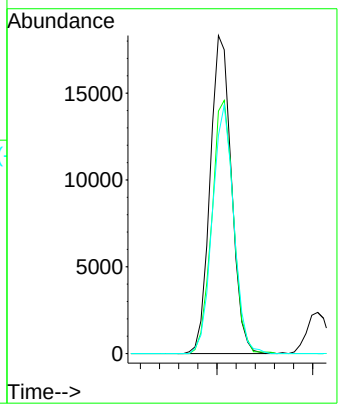


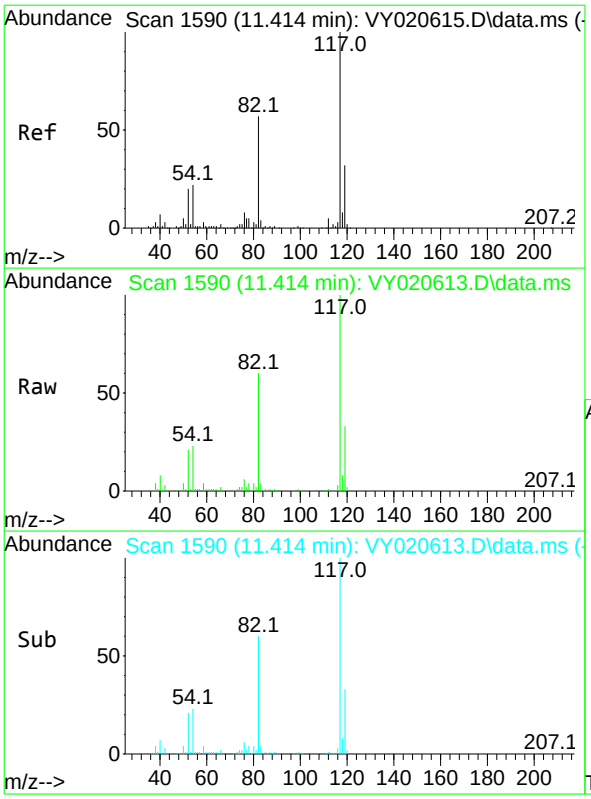




#62
4-Bromofluorobenzene
Concen: 11.154 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 95 Resp: 28323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.6 | 0.0 | 161.8 |
| 176 | 78.3 | 0.0 | 156.6 |

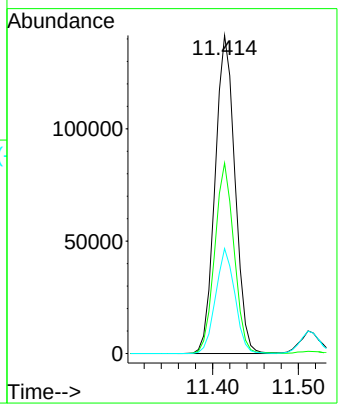





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:117 Resp: 228550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.9 | 45.8 | 68.6 |
| 119 | 33.0 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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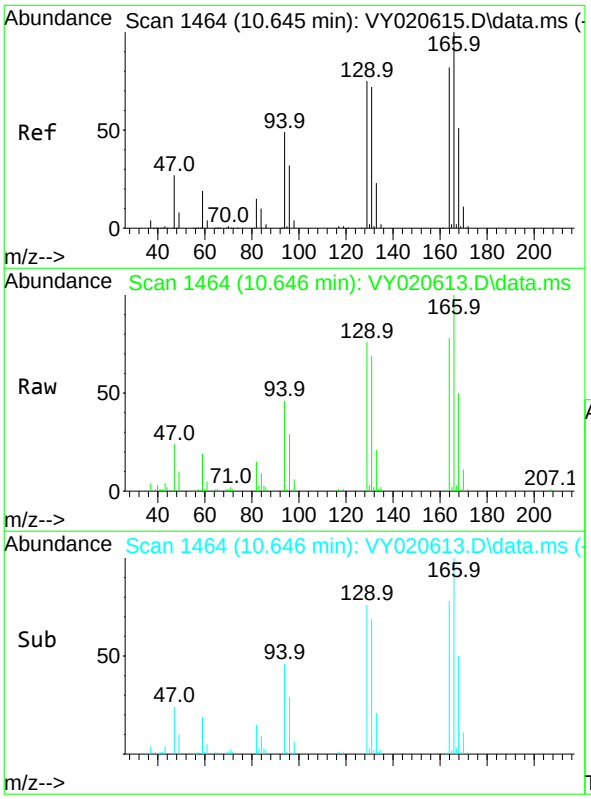
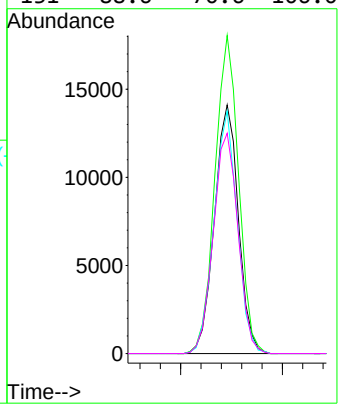
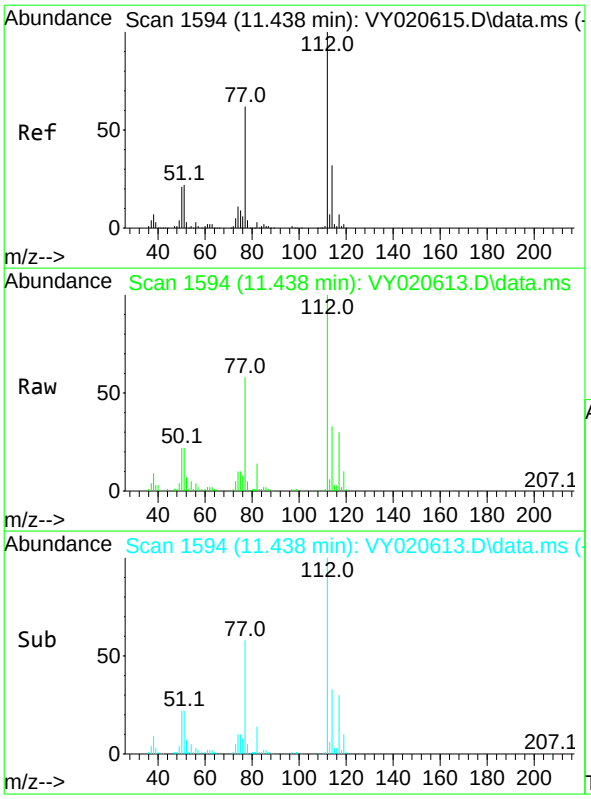



#64
Tetrachloroethene
Concen: 10.744 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:164 Resp: 23098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.9 | 97.9 | 146.9 |
| 129 | 97.5 | 73.4 | 110.0 |
| 131 | 88.6 | 70.6 | 106.0 |

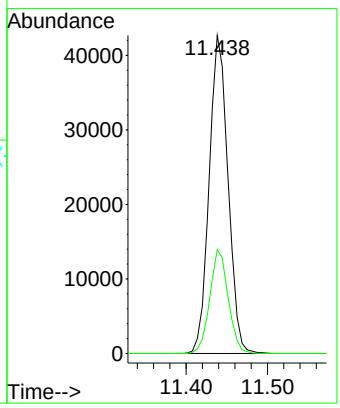





#65
Chlorobenzene
Concen: 10.738 ug/l
RT: 11.438 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:112 Resp: 68621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.7 | 26.0 | 39.0 |

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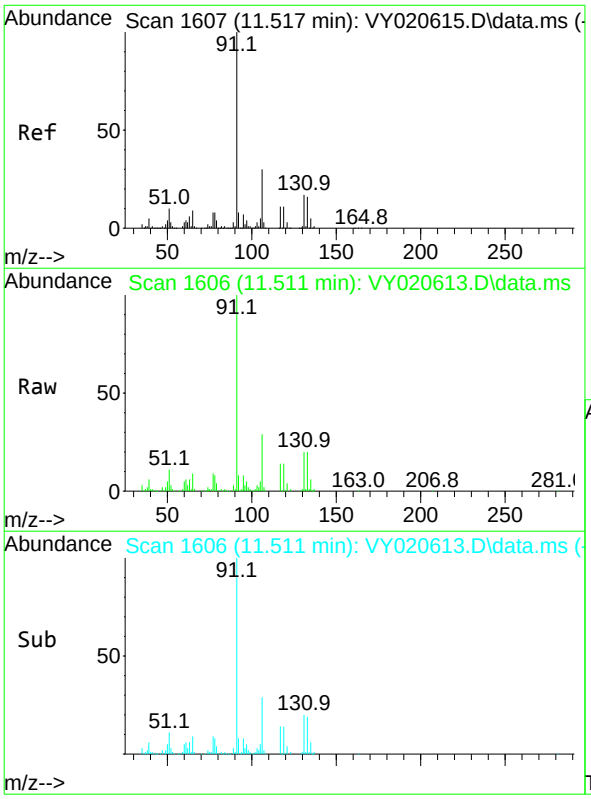
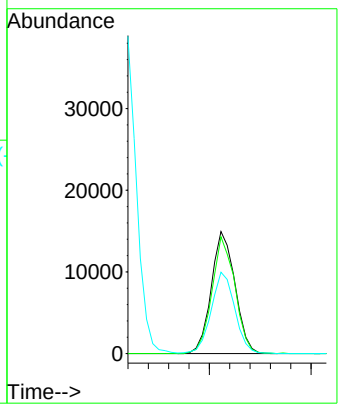
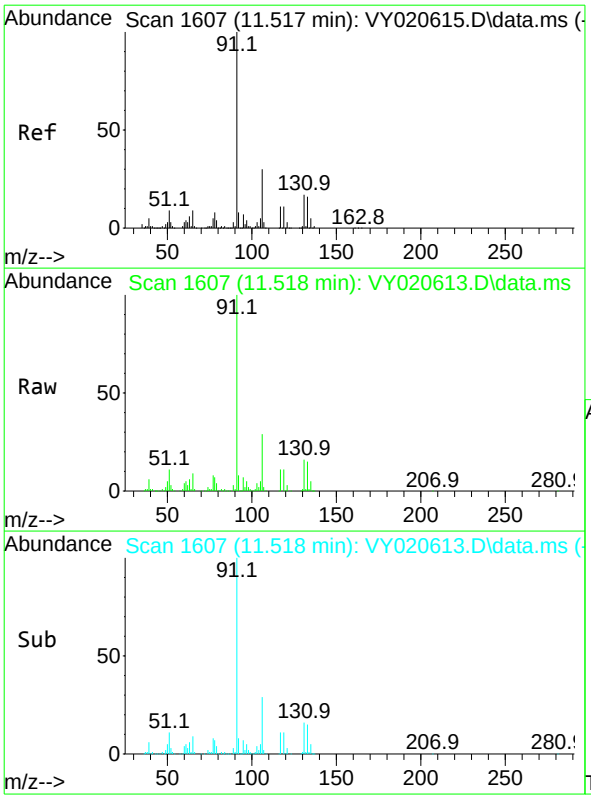



#66
1,1,1,2-Tetrachloroethane
Concen: 11.065 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:131 Resp: 24180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 92.6 | 46.8 | 140.3 |
| 119 | 66.5 | 31.8 | 95.3 |

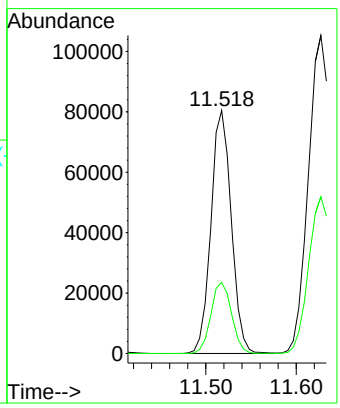





#67
Ethyl Benzene
Concen: 10.649 ug/l
RT: 11.518 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 91 Resp: 125547

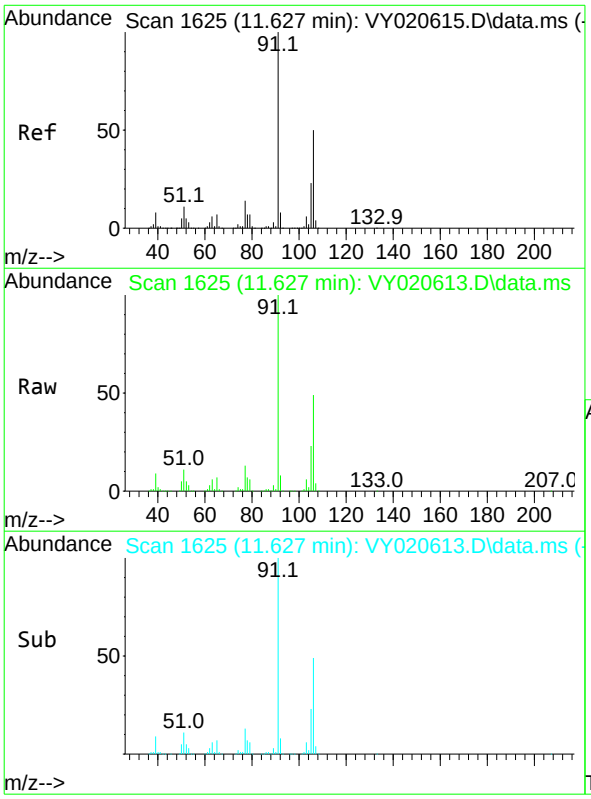
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.2 | 23.9 | 35.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

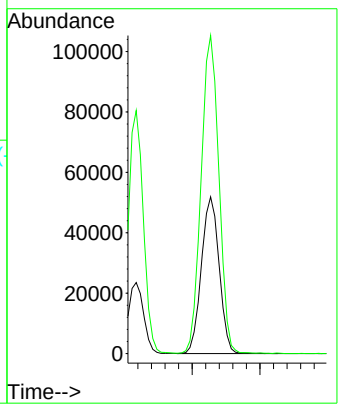
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

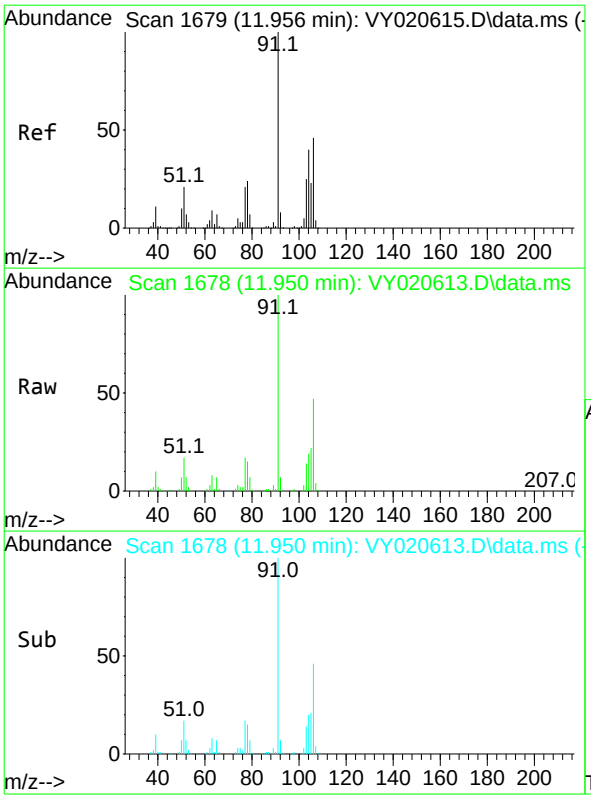



#68
m/p-Xylenes
Concen: 21.506 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:106 Resp: 94273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.6 | 165.0 | 247.4 |






#69
o-Xylene
Concen: 10.684 ug/l
RT: 11.950 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:106 Resp: 43697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.0 | 108.4 | 325.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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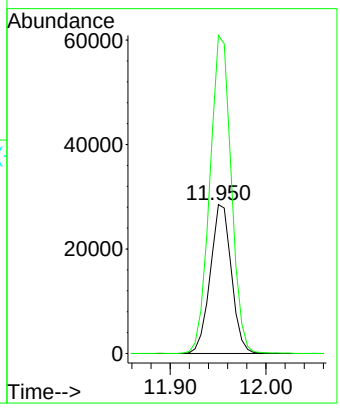
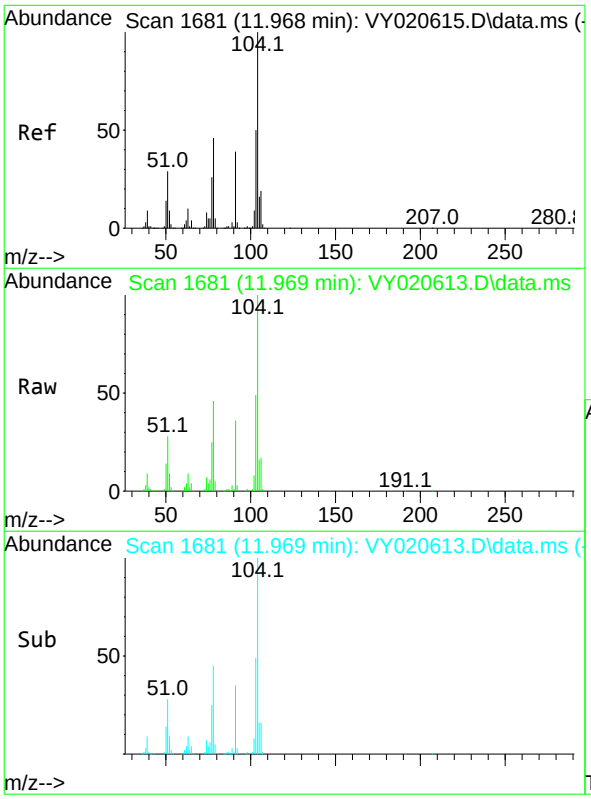
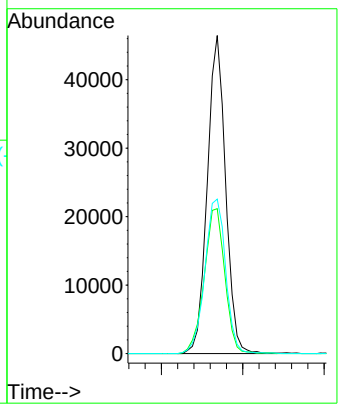


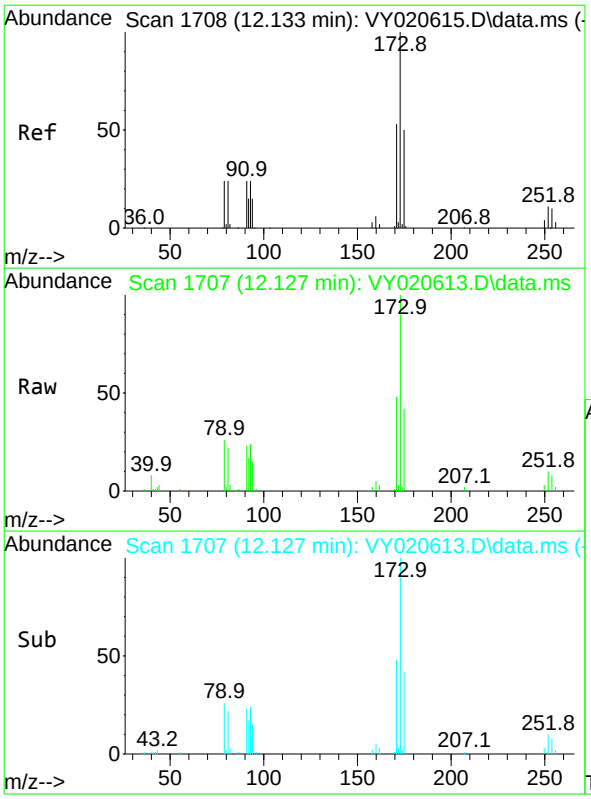




#70
Styrene
Concen: 10.612 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:104 Resp: 72514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.6 | 41.6 | 62.4 |
| 103 | 55.4 | 43.7 | 65.5 |

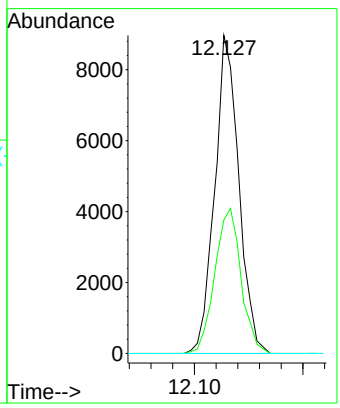





#71
Bromoform
Concen: 11.250 ug/l
RT: 12.127 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:173 Resp: 13822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.5 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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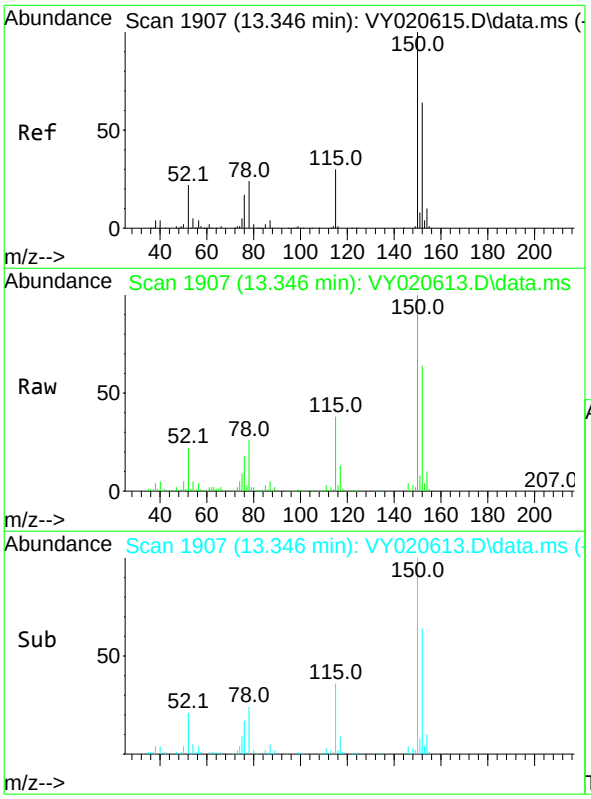
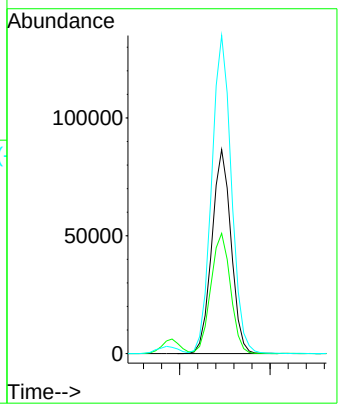
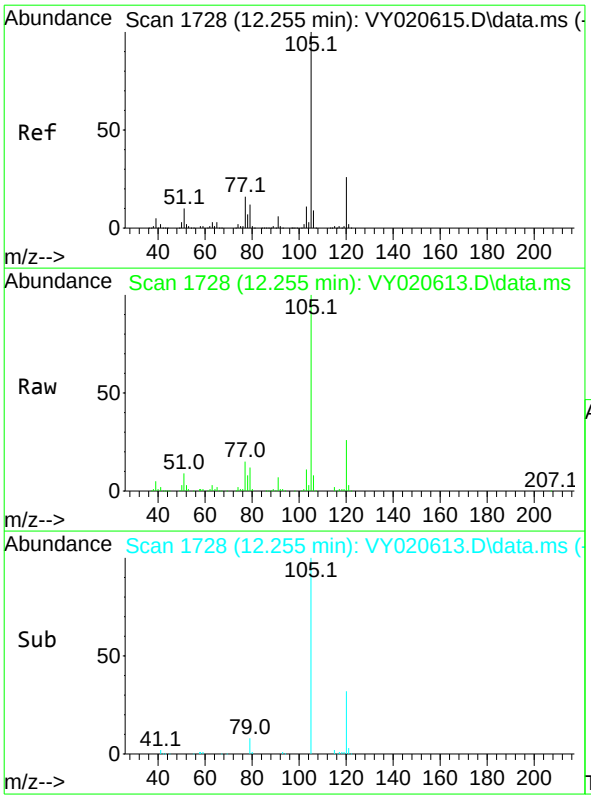



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:152 Resp: 127910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.4 | 30.2 | 90.6 |
| 150 | 160.3 | 0.0 | 355.4 |

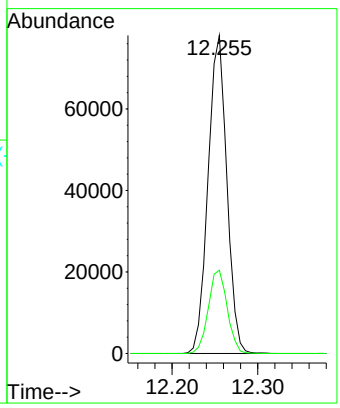





#73
Isopropylbenzene
Concen: 10.624 ug/l
RT: 12.255 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:105 Resp: 118590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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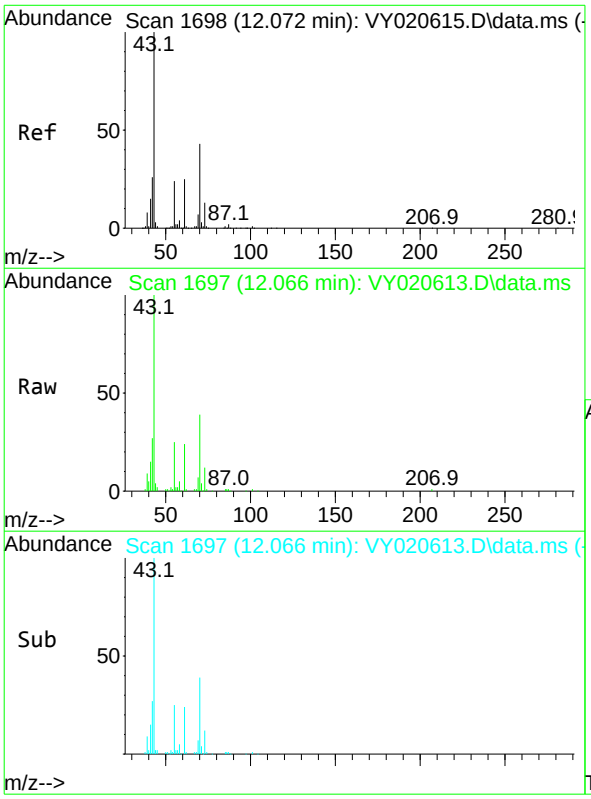
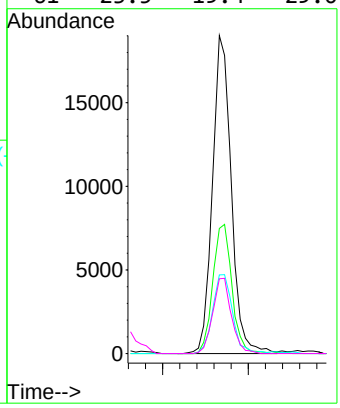
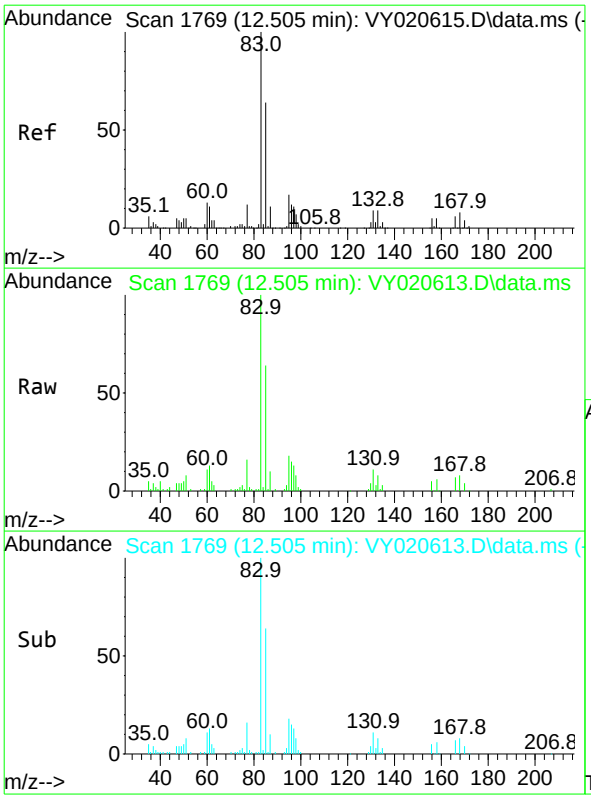



#74
N-amyl acetate
Concen: 11.093 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 28977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.2 | 34.2 | 51.2 |
| 55 | 26.3 | 19.6 | 29.4 |
| 61 | 23.5 | 19.4 | 29.0 |

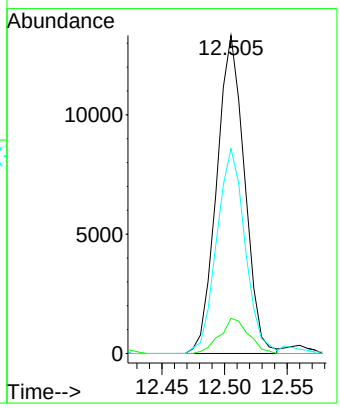





#75
1,1,2,2-Tetrachloroethane
Concen: 11.352 ug/l
RT: 12.505 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 83 Resp: 20569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.4 | 5.2 | 15.6 |
| 85 | 65.6 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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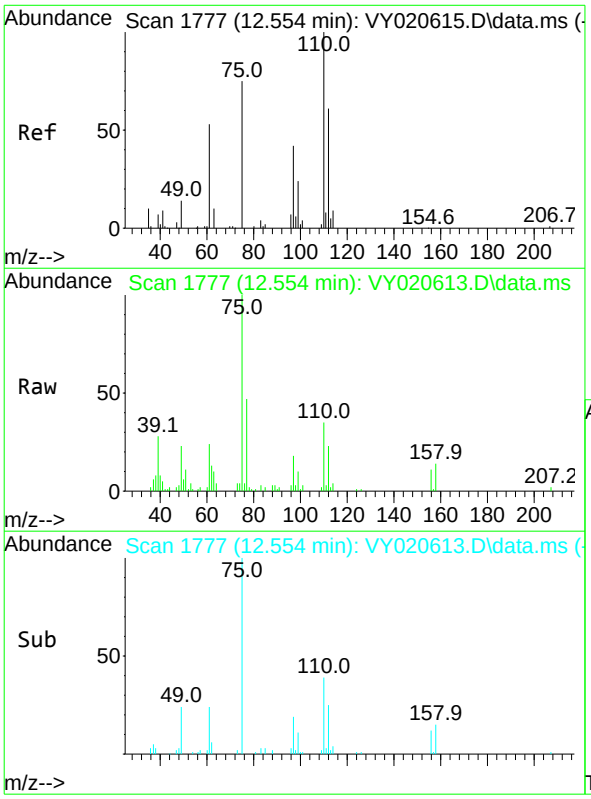
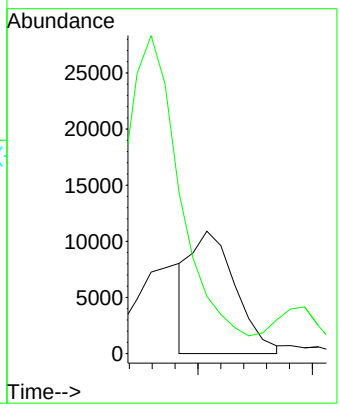
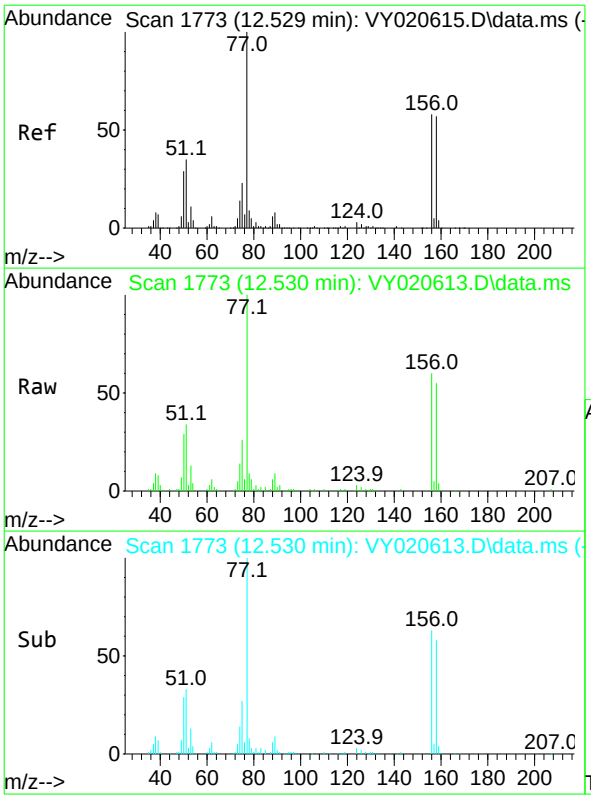



#76
1,2,3-Trichloropropane
Concen: 11.287 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 75 Resp: 14870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |






#77
Bromobenzene
Concen: 10.591 ug/l
RT: 12.530 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

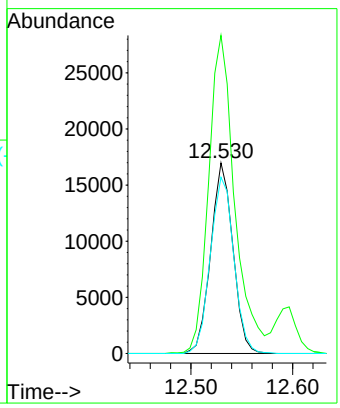
Tgt Ion:156 Resp: 25752

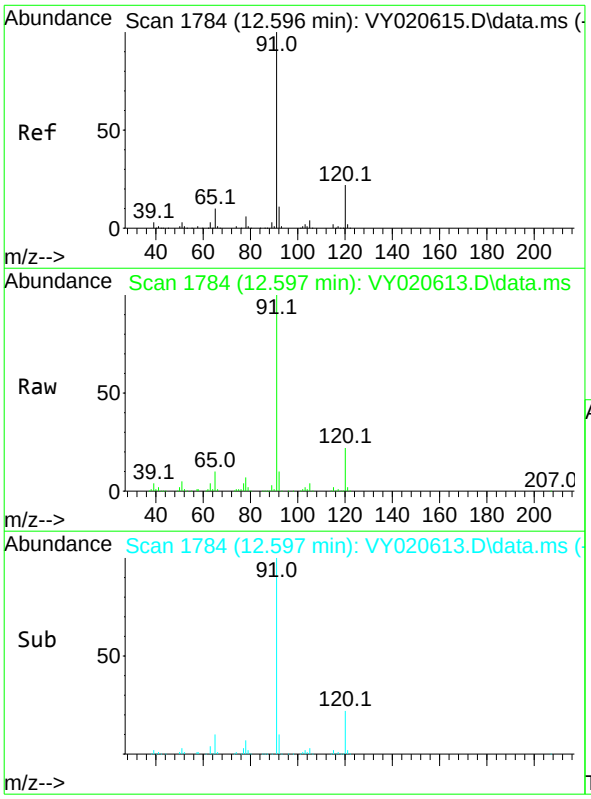
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 195.4 | 94.2 | 282.4 |
| 158 | 97.9 | 48.9 | 146.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

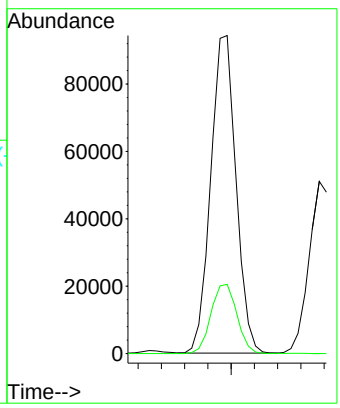


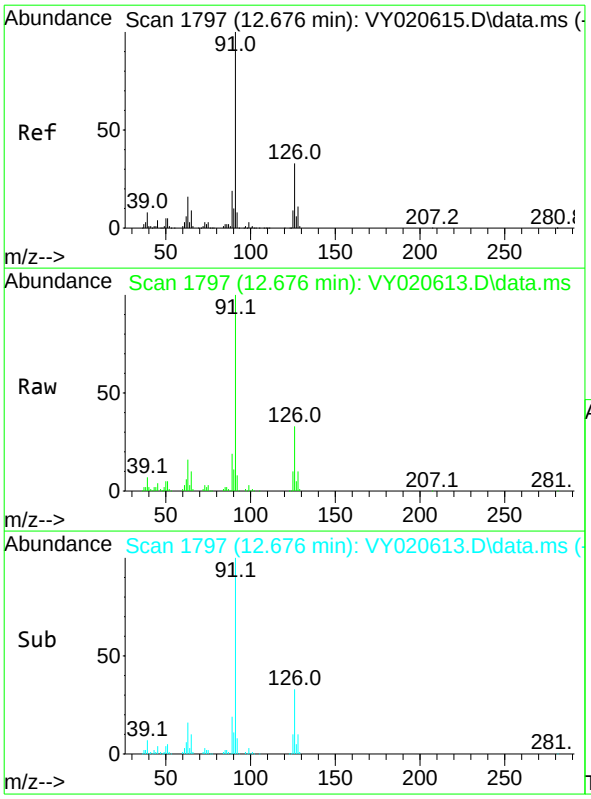




#78
n-propylbenzene
Concen: 10.588 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 91 Resp: 142396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.3 | 11.1 | 33.1 |






#79
2-Chlorotoluene
Concen: 10.527 ug/l
RT: 12.676 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 91 Resp: 79651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.5 | 16.6 | 49.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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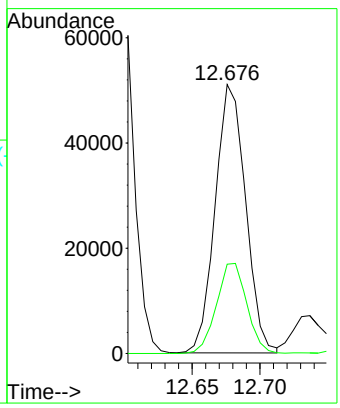
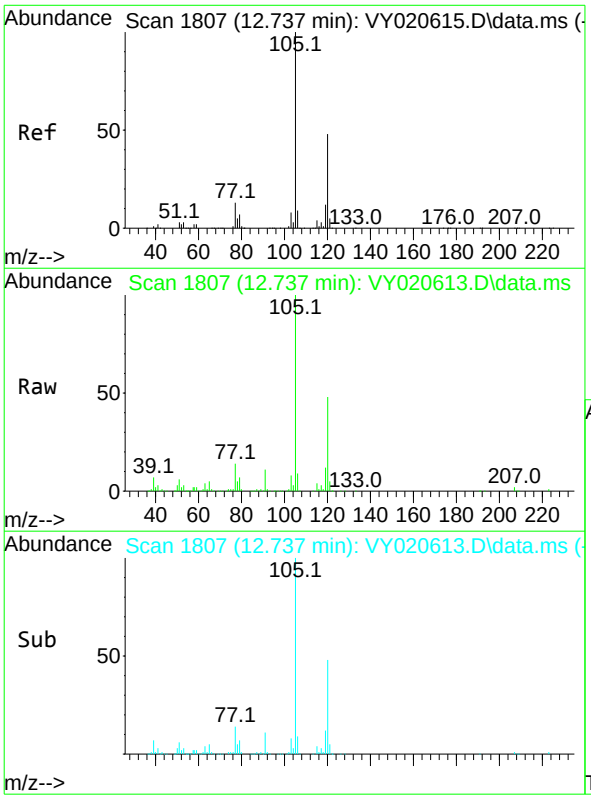
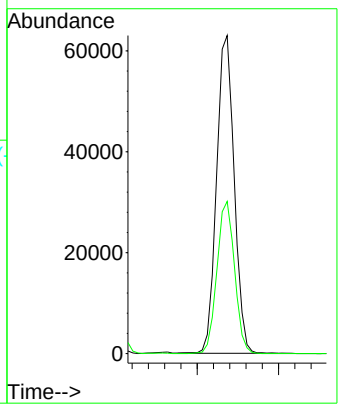


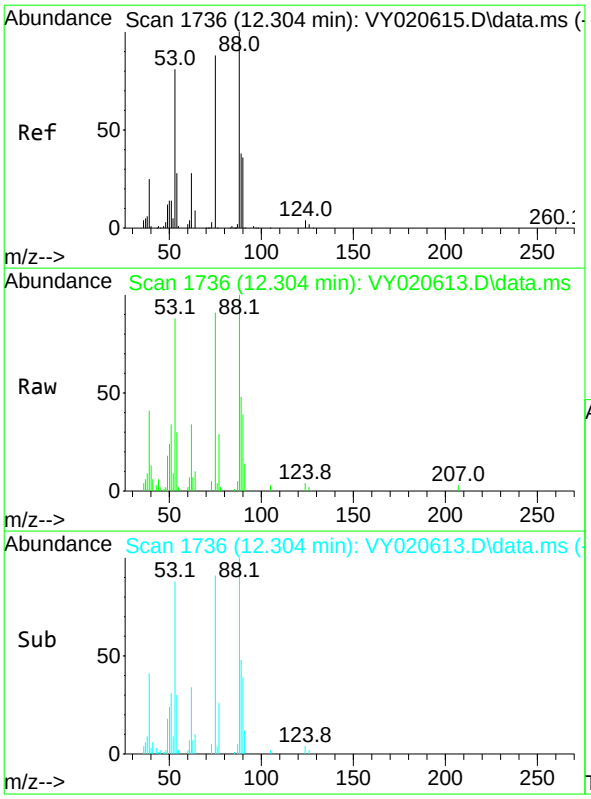




#80
1,3,5-Trimethylbenzene
Concen: 10.453 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:105 Resp: 94672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.9 | 71.7 |

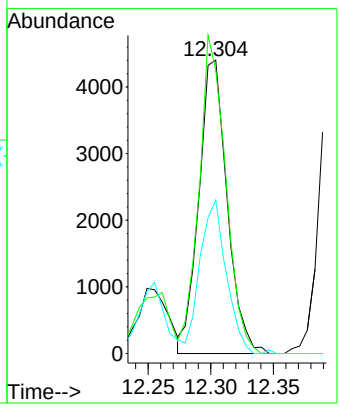





#81
trans-1,4-Dichloro-2-butene
Concen: 10.913 ug/l
RT: 12.304 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 75 Resp: 6908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 102.6 | 75.4 | 113.2 |
| 89 | 48.3 | 37.0 | 55.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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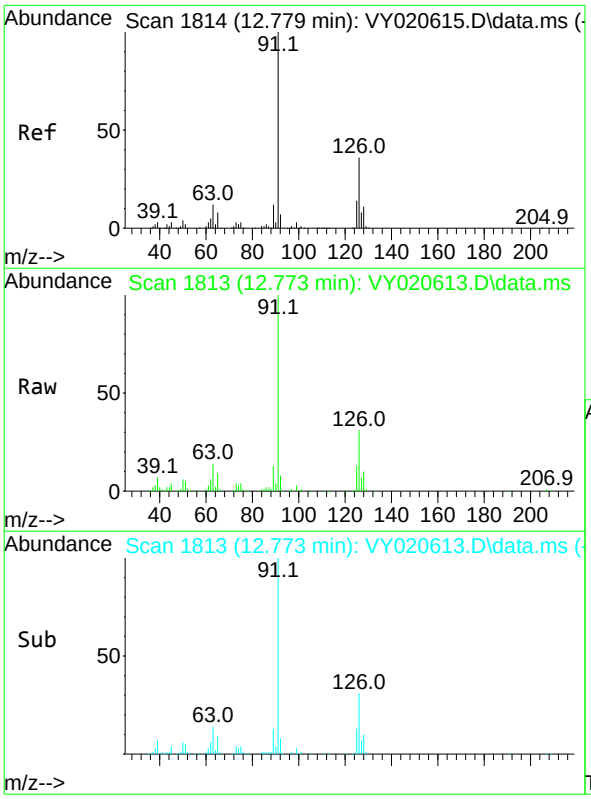
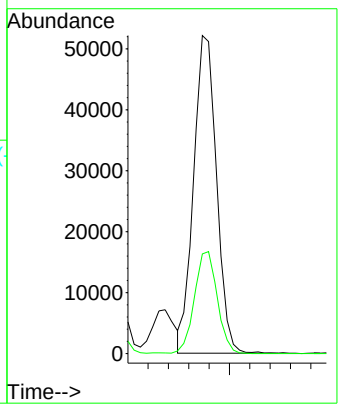
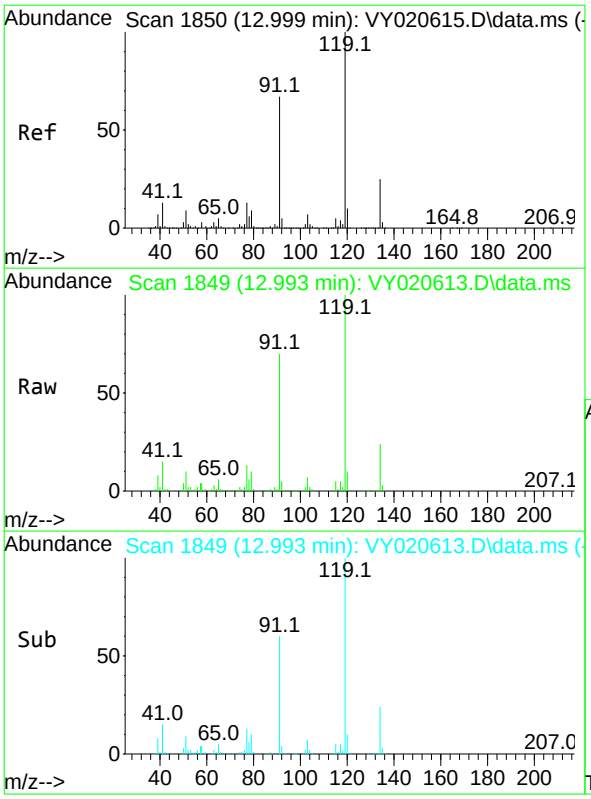



#82
4-Chlorotoluene
Concen: 10.380 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 91 Resp: 81482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.2 | 16.6 | 49.7 |

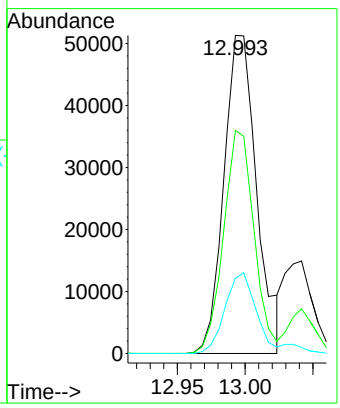





#83
tert-Butylbenzene
Concen: 10.534 ug/l
RT: 12.993 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:119 Resp: 86405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.2 | 32.9 | 98.6 |
| 134 | 25.8 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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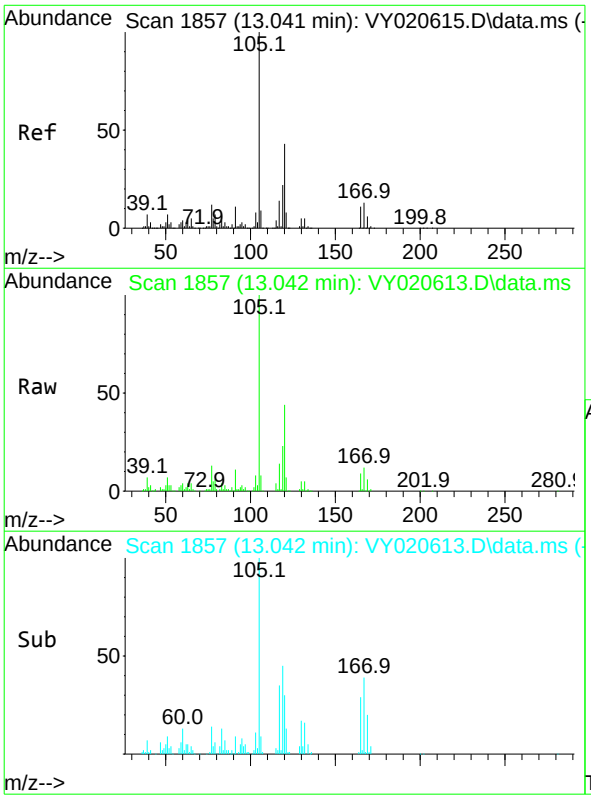
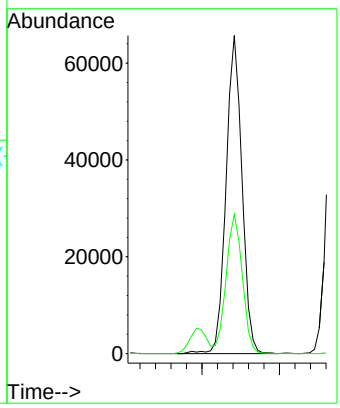
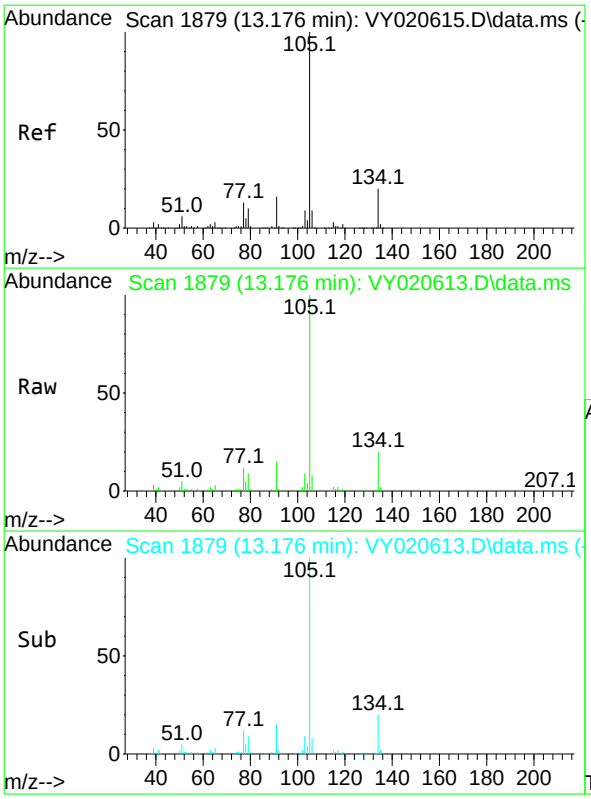



#84
1,2,4-Trimethylbenzene
Concen: 10.539 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:105 Resp: 93630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.9 | 21.8 | 65.4 |

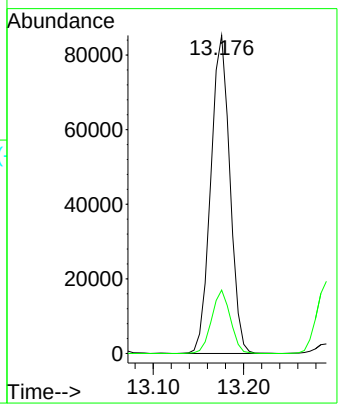





#85
sec-Butylbenzene
Concen: 10.497 ug/l
RT: 13.176 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:105 Resp: 125189

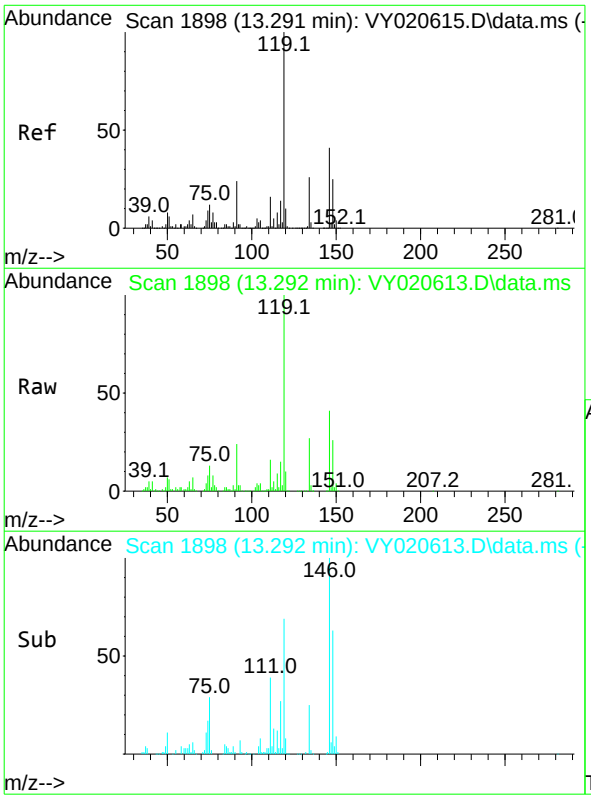
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.6 | 10.0 | 30.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

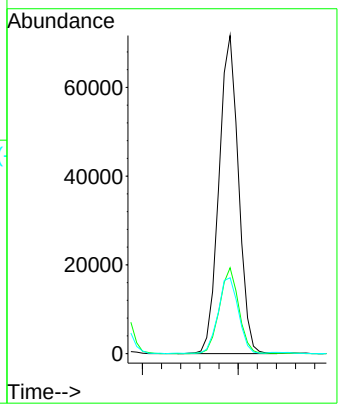
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

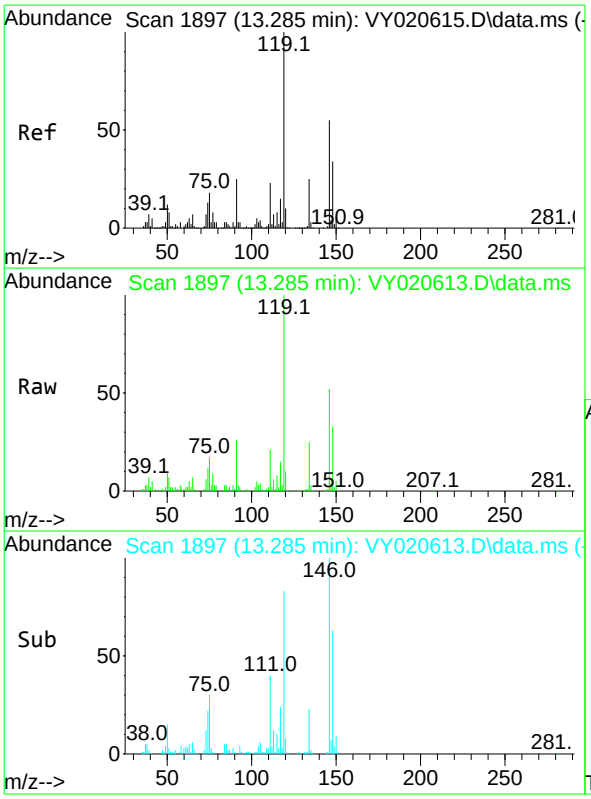



#86
p-Isopropyltoluene
Concen: 10.342 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:119 Resp: 101690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.6 | 12.9 | 38.6 |
| 91 | 24.7 | 12.1 | 36.3 |

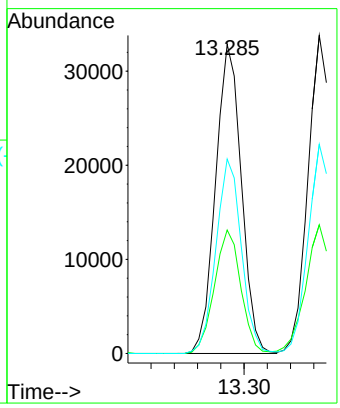





#87
1,3-Dichlorobenzene
Concen: 10.561 ug/l
RT: 13.285 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:146 Resp: 50691

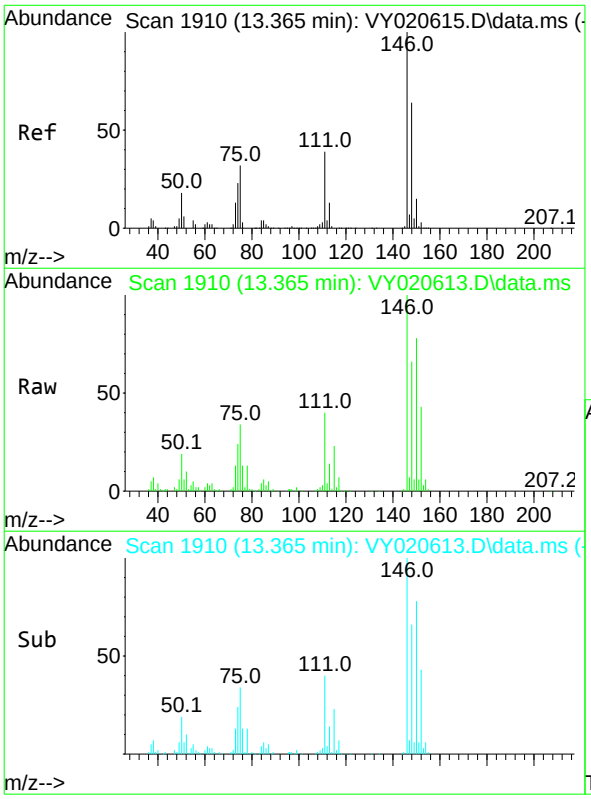
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.6 | 61.8 |
| 148 | 62.1 | 31.4 | 94.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

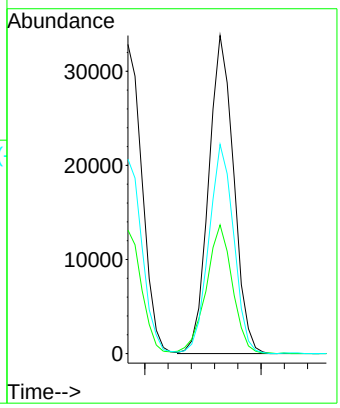
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

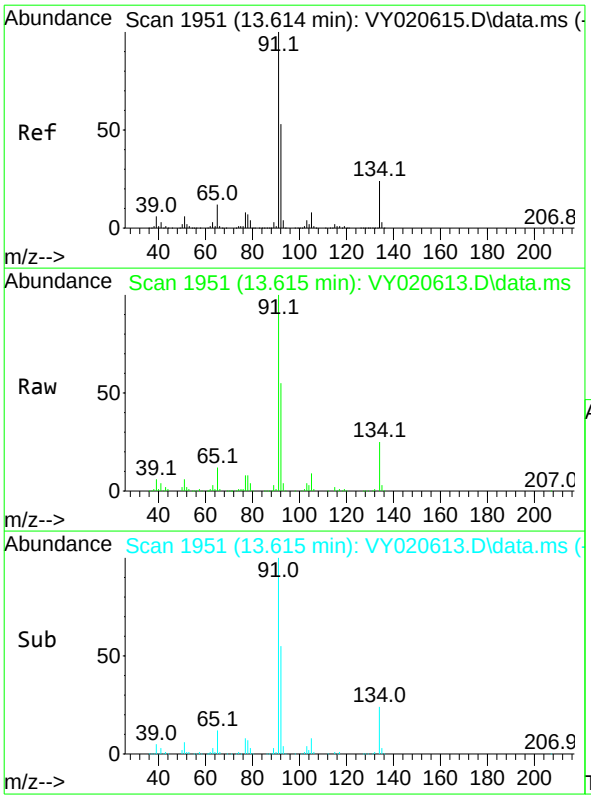



#88
1,4-Dichlorobenzene
Concen: 10.658 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:146 Resp: 50665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.4 | 19.6 | 58.7 |
| 148 | 65.3 | 31.9 | 95.5 |

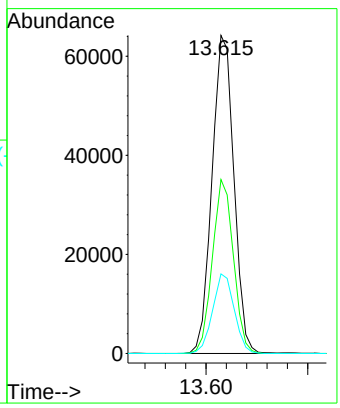





#89
n-Butylbenzene
Concen: 10.307 ug/l
RT: 13.615 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 91 Resp: 96052

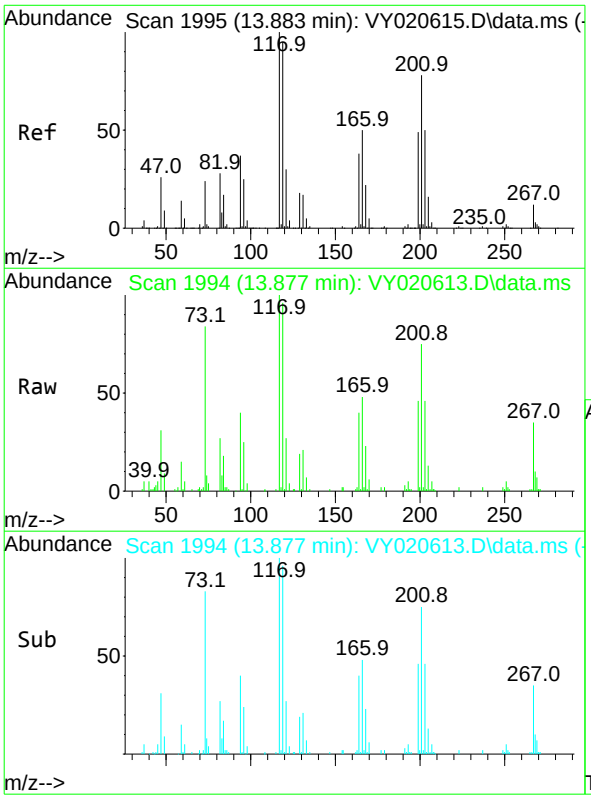
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.4 | 26.8 | 80.4 |
| 134 | 24.7 | 12.5 | 37.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

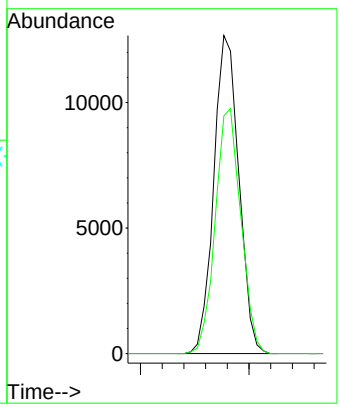
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

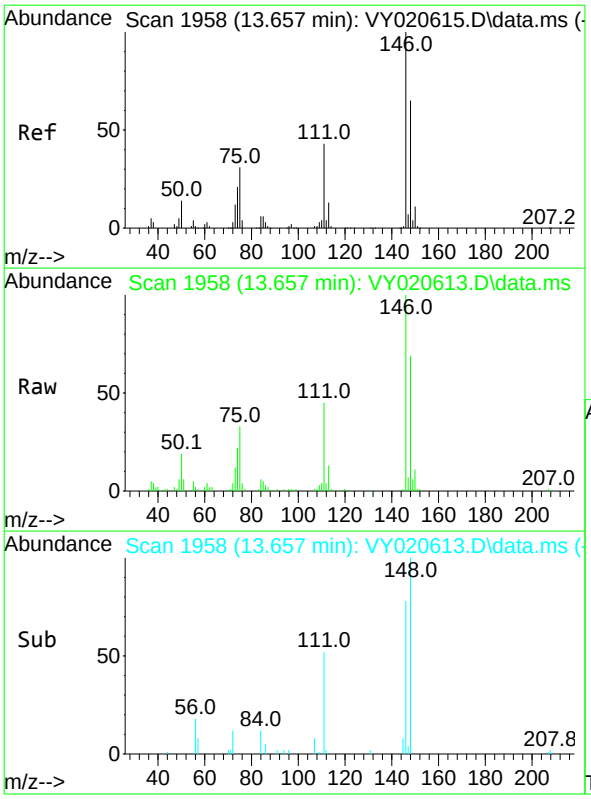



#90
Hexachloroethane
Concen: 10.430 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:117 Resp: 20324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.7 | 39.1 | 117.3 |

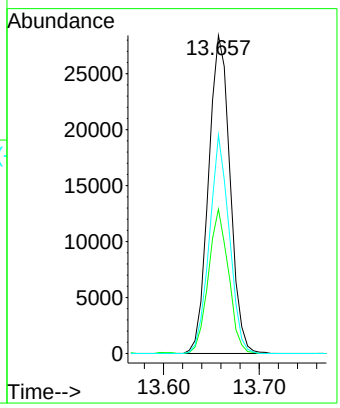





#91
1,2-Dichlorobenzene
Concen: 10.674 ug/l
RT: 13.657 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:146 Resp: 44391

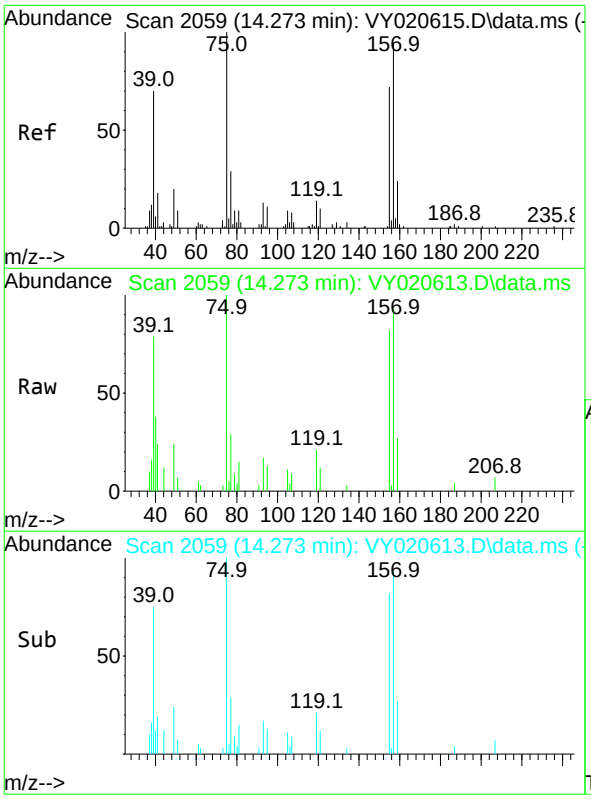
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.3 | 21.3 | 63.7 |
| 148 | 63.3 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

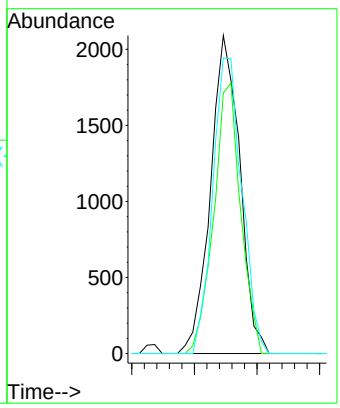
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

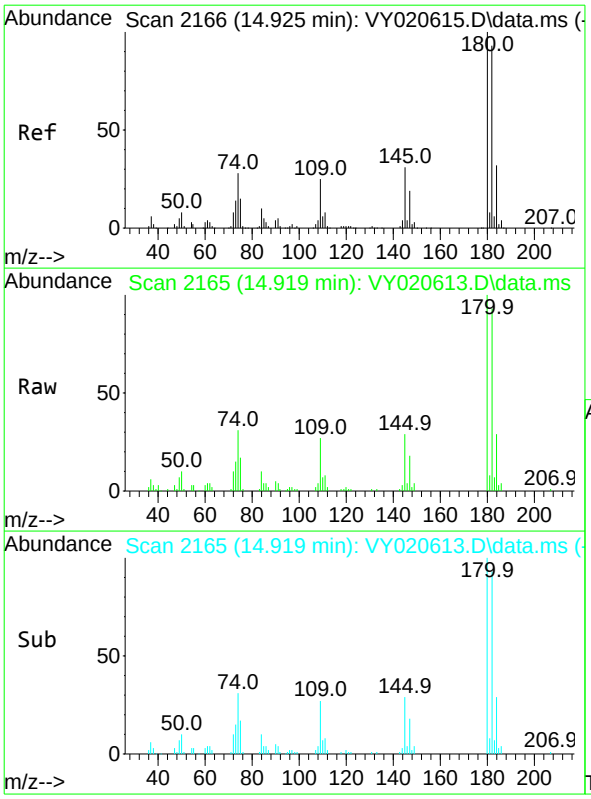



#92
1,2-Dibromo-3-Chloropropane
Concen: 11.579 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 75 Resp: 3406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 78.1 | 41.1 | 123.3 |
| 157 | 92.3 | 52.9 | 158.8 |

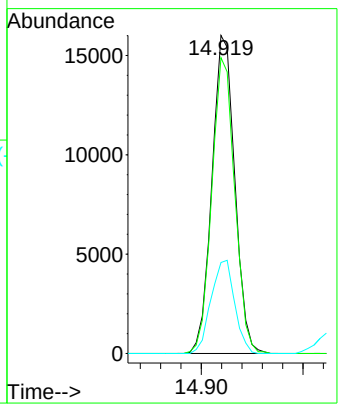





#93
1,2,4-Trichlorobenzene
Concen: 9.920 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:180 Resp: 24954

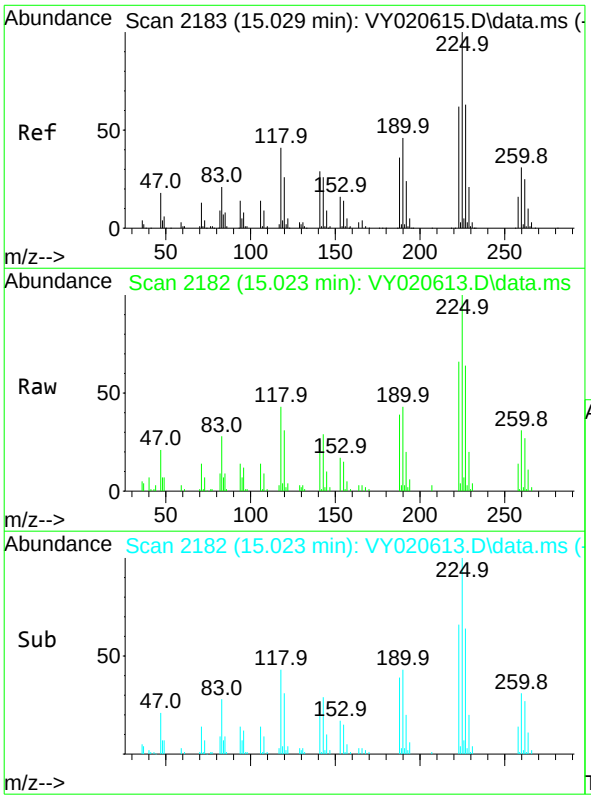
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.2 | 47.9 | 143.6 |
| 145 | 30.3 | 15.6 | 46.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

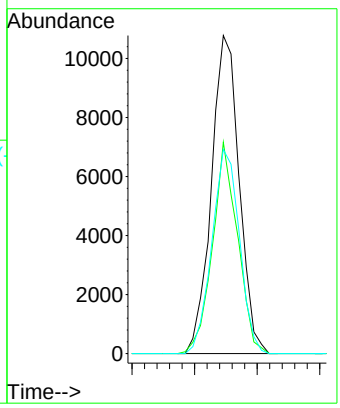
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

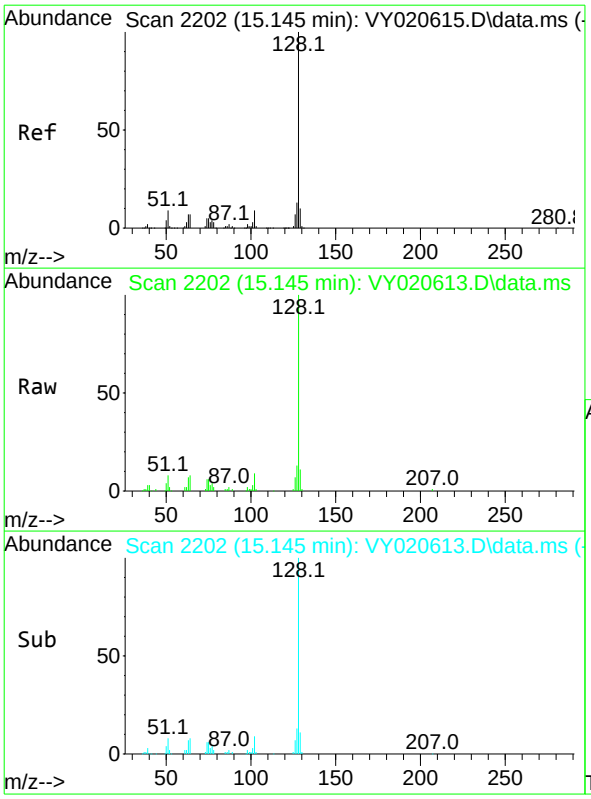



#94
Hexachlorobutadiene
Concen: 10.107 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:225 Resp: 16620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 59.8 | 31.8 | 95.3 |
| 227 | 63.6 | 32.2 | 96.6 |

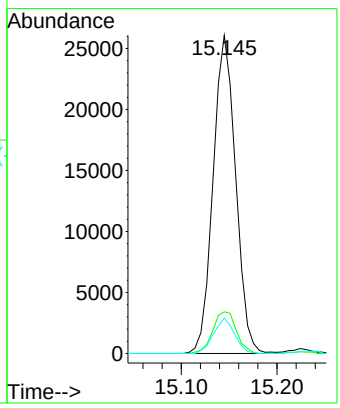





#95
Naphthalene
Concen: 9.901 ug/l
RT: 15.145 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:128 Resp: 42698

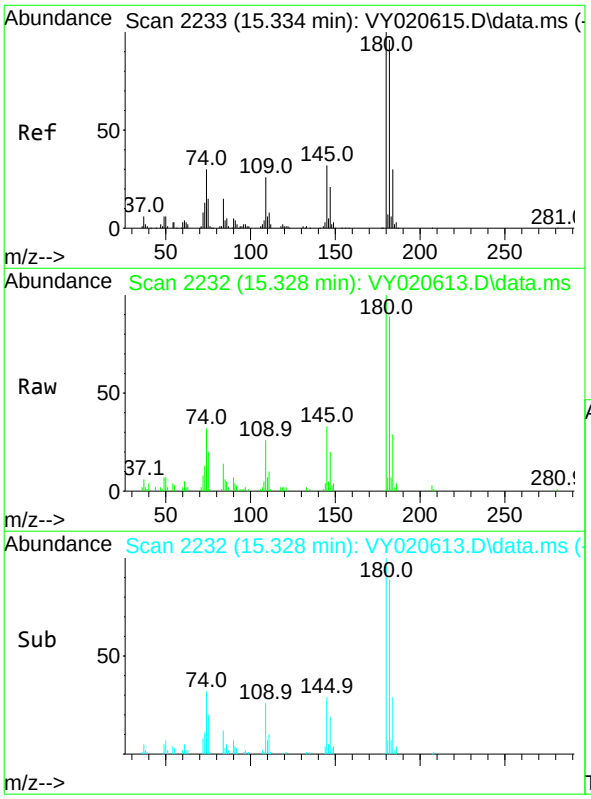
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.8 | 10.7 | 16.1 |
| 129 | 10.4 | 8.5 | 12.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

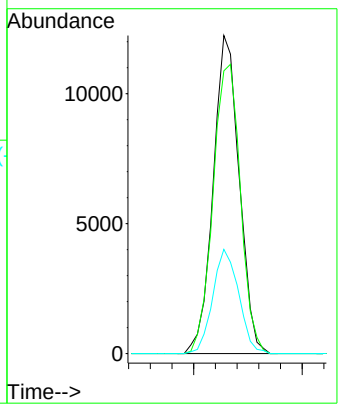
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024




#96
1,2,3-Trichlorobenzene
Concen: 9.602 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:180 Resp: 20408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.3 | 141.9 |
| 145 | 32.7 | 16.0 | 48.0 |



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 177160 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 272612 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 241222 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 131827 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 34492 | 17.777 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 35.560%# | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 35742 | 18.603 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 37.200%# | | |
| 50) Toluene-d8 | 10.103 | 98 | 122846 | 18.267 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 36.540%# | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 48801 | 18.552 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 37.100% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 44875 | 20.280 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 35845 | 21.863 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 33253 | 21.791 | ug/l | 100 |
| 5) Bromomethane | 2.586 | 94 | 19758 | 20.142 | ug/l | 100 |
| 6) Chloroethane | 2.732 | 64 | 20312 | 21.539 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 67594 | 21.169 | ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 23380 | 20.878 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.817 | 101 | 46696 | 20.403 | ug/l | 100 |
| 10) Methyl Iodide | 4.000 | 142 | 52895 | 20.758 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.866 | 59 | 25807 | 106.274 | ug/l # | 93 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 45124 | 20.319 | ug/l | 99 |
| 13) Acrolein | 3.653 | 56 | 11611 | 126.557 | ug/l | 94 |
| 14) Allyl chloride | 4.384 | 41 | 79257 | 20.368 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 51118 | 95.416 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 38075 | 94.781 | ug/l | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 147576 | 20.416 | ug/l | 100 |
| 18) Methyl Acetate | 4.384 | 43 | 24886 | 18.851 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 112241 | 19.582 | ug/l | 96 |
| 20) Methylene Chloride | 4.616 | 84 | 48431 | 20.076 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 49814 | 19.997 | ug/l | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 158410 | 20.055 | ug/l | 97 |
| 23) Vinyl Acetate | 5.963 | 43 | 441039 | 98.587 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 92599 | 20.011 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 67498 | 93.608 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 86393 | 19.750 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 57749 | 20.149 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 24987 | 16.009 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.256 | 42 | 44636 | 98.059 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 103806 | 19.065 | ug/l | 99 |
| 31) Cyclohexane | 7.701 | 56 | 88339 | 19.966 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 86081 | 20.249 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 69466 | 19.828 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 31585 | 19.166 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 77945 | 20.109 | ug/l | 96 |
| 39) Methylcyclohexane | 9.103 | 83 | 92458 | 20.249 | ug/l | 97 |
| 40) Benzene | 8.079 | 78 | 207185 | 20.176 | ug/l | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 15884 | 18.232 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 54425 | 19.983 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 60446 | 19.375 | ug/l | # | 88 |
| 44) Trichloroethene | 8.865 | 130 | 50346 | 19.952 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 49119 | 20.466 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 25054 | 19.753 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 68951 | 20.125 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 28256 | 19.051 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.225 | 88 | 5399 | 371.167 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 157955 | 95.918 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 129196 | 20.245 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 62391 | 19.543 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 75647 | 19.996 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 33330 | 19.875 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 46055 | 18.930 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 59274 | 19.828 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 96023 | 93.804 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 99623 | 94.224 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 43825 | 19.541 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 30621 | 19.630 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 44735 | 19.716 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 134807 | 19.987 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 45146 | 19.574 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 249208 | 20.027 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 183488 | 39.659 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 86043 | 19.932 | ug/l | | 98 |
| 70) Styrene | 11.968 | 104 | 144333 | 20.012 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 24718 | 19.062 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 234727 | 20.404 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 52699 | 19.574 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 36998 | 19.813 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 27440m | 20.210 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 50276 | 20.063 | ug/l | | 99 |
| 78) n-propylbenzene | 12.596 | 91 | 284604 | 20.534 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 158834 | 20.369 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 190968 | 20.458 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 13039 | 19.986 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 164692 | 20.358 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 173358 | 20.507 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 186344 | 20.352 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 251880 | 20.492 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 208342 | 20.558 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 100815 | 20.380 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 97668 | 19.935 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 196997 | 20.511 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 40281 | 20.057 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 85128 | 19.862 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 5627 | 18.561 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 48869 | 18.850 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 33524 | 19.781 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 80562 | 18.126 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 41686 | 19.031 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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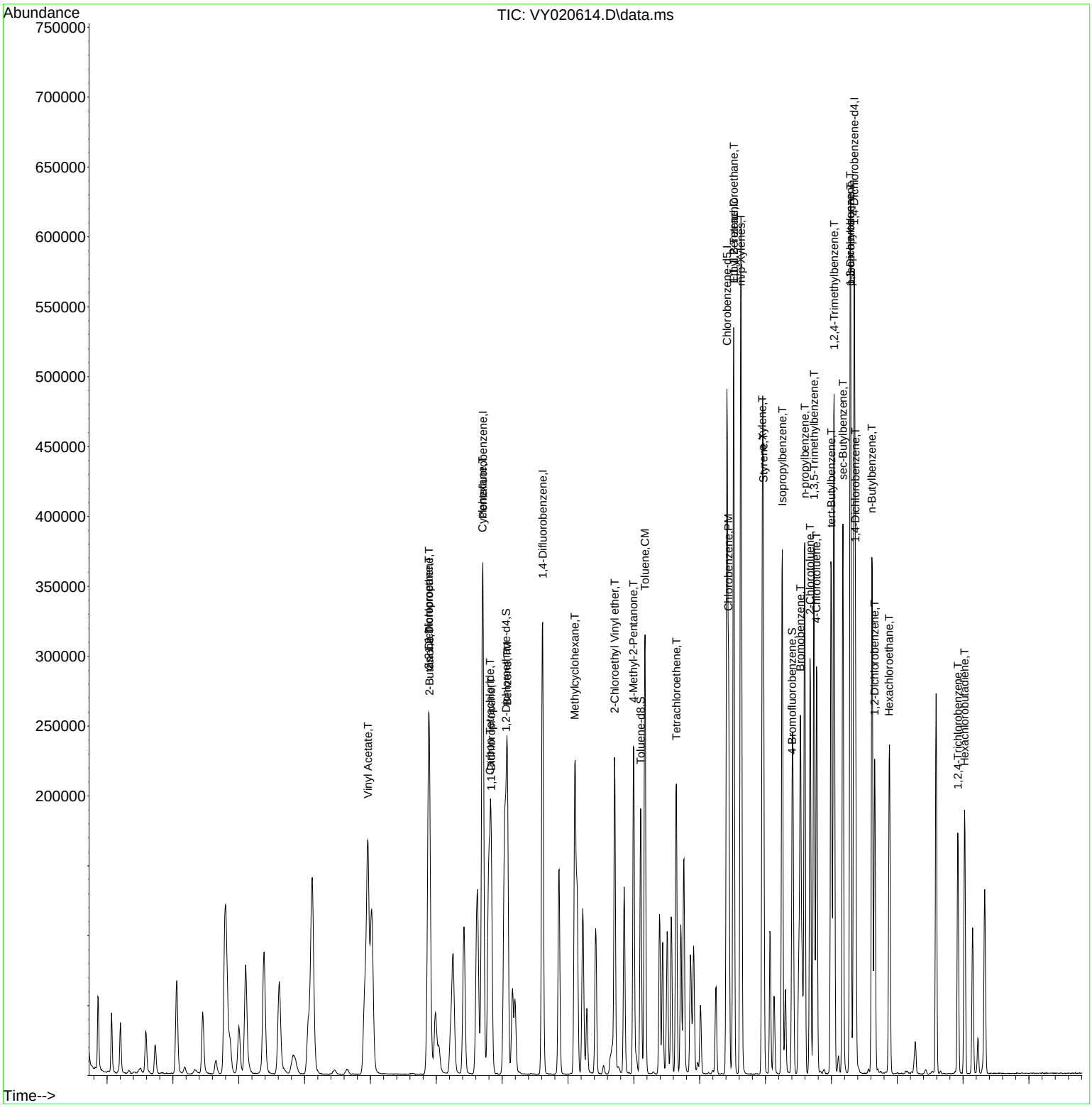
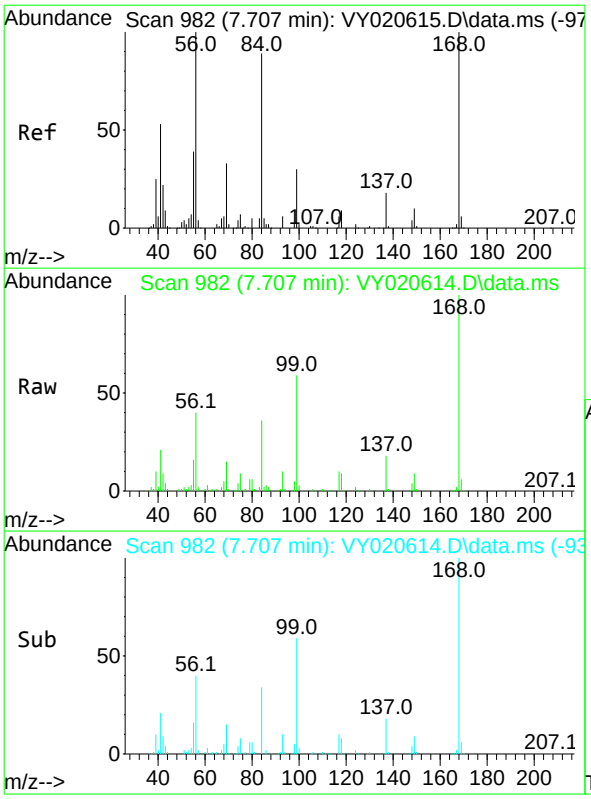
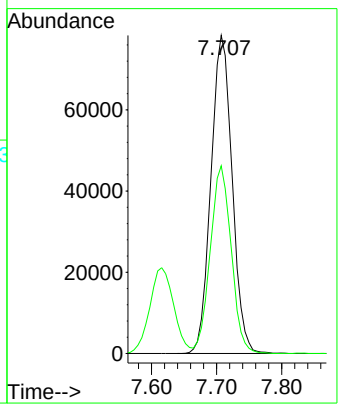





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:168 Resp: 177160

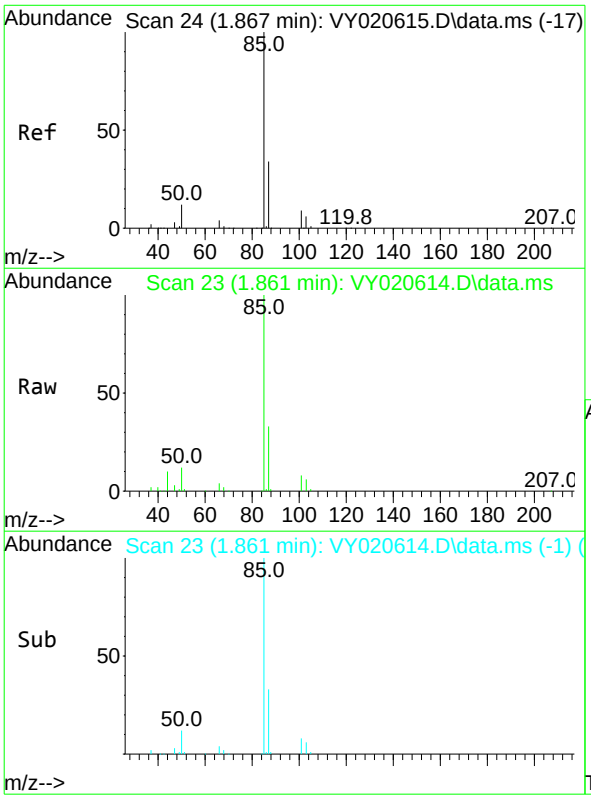
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.0 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

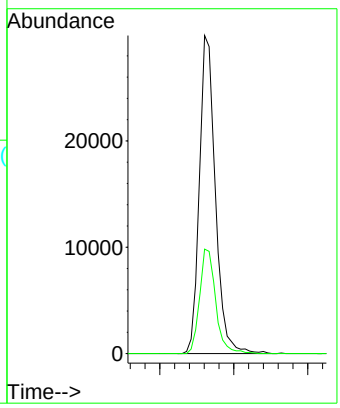
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

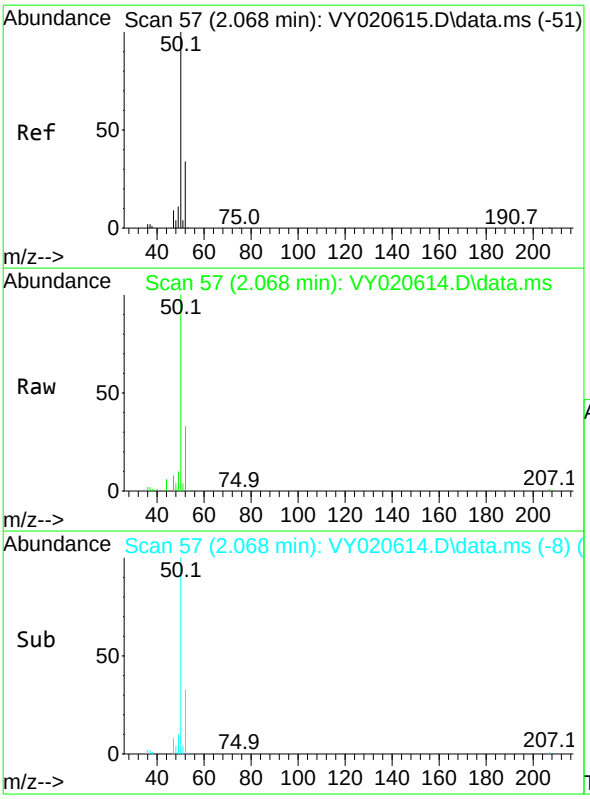



#2
Dichlorodifluoromethane
Concen: 20.280 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 85 Resp: 44875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.8 | 16.8 | 50.3 |

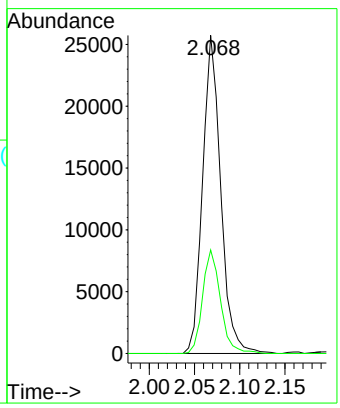





#3
Chloromethane
Concen: 21.863 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 50 Resp: 35845

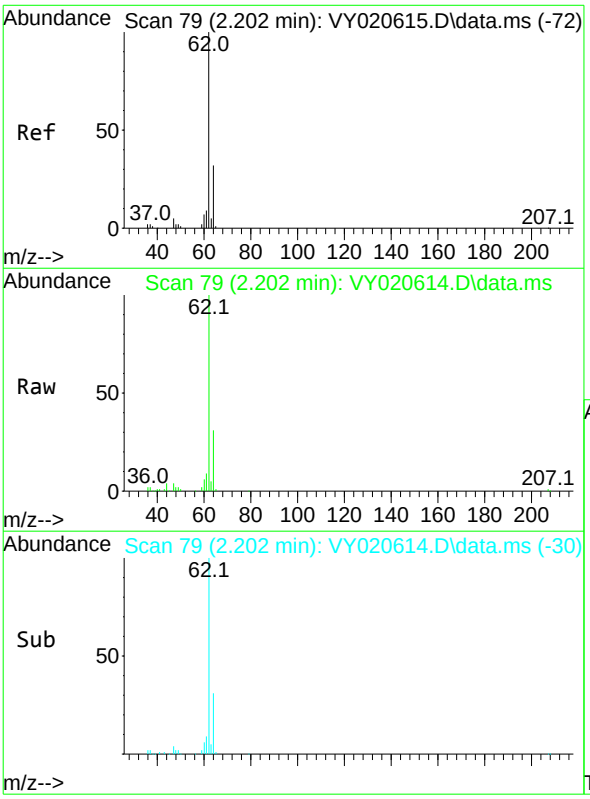
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.5 | 26.8 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

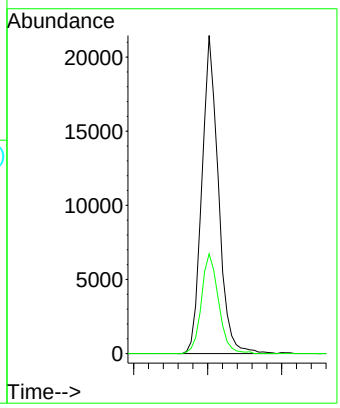
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

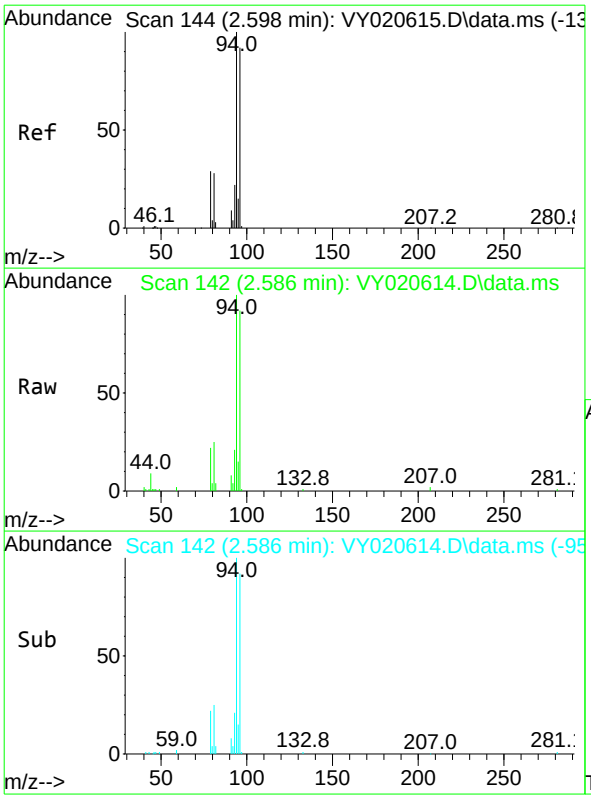



#4
Vinyl Chloride
Concen: 21.791 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 62 Resp: 33253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 25.3 | 37.9 |

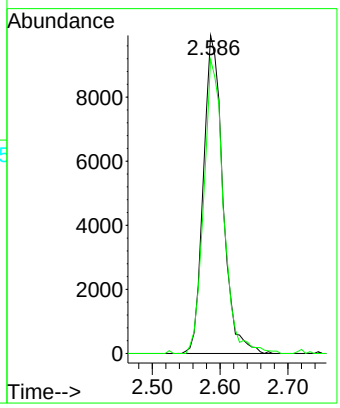





#5
Bromomethane
Concen: 20.142 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 94 Resp: 19758

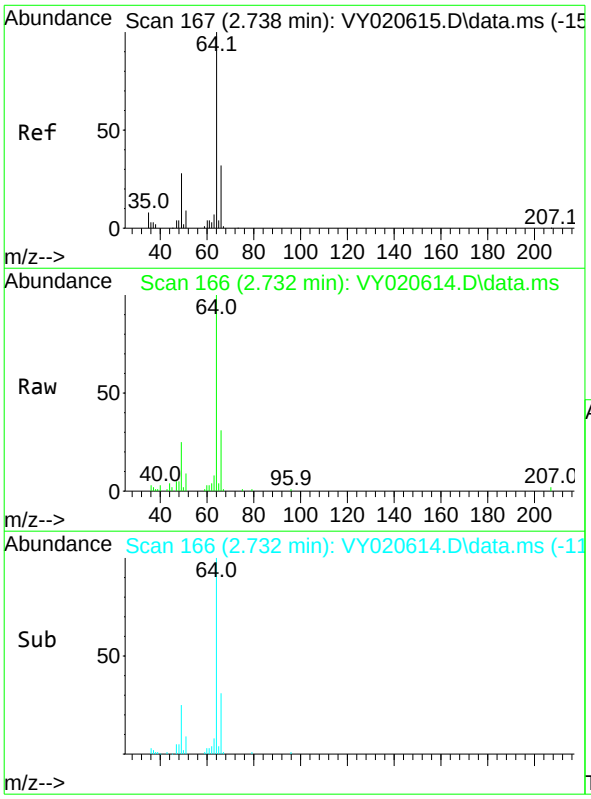
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.5 | 73.8 | 110.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

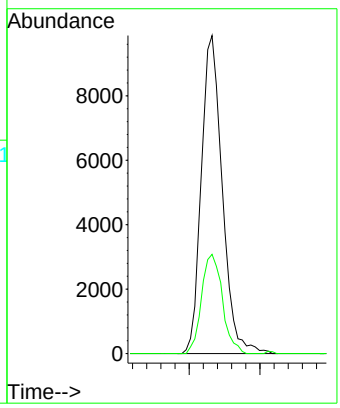
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

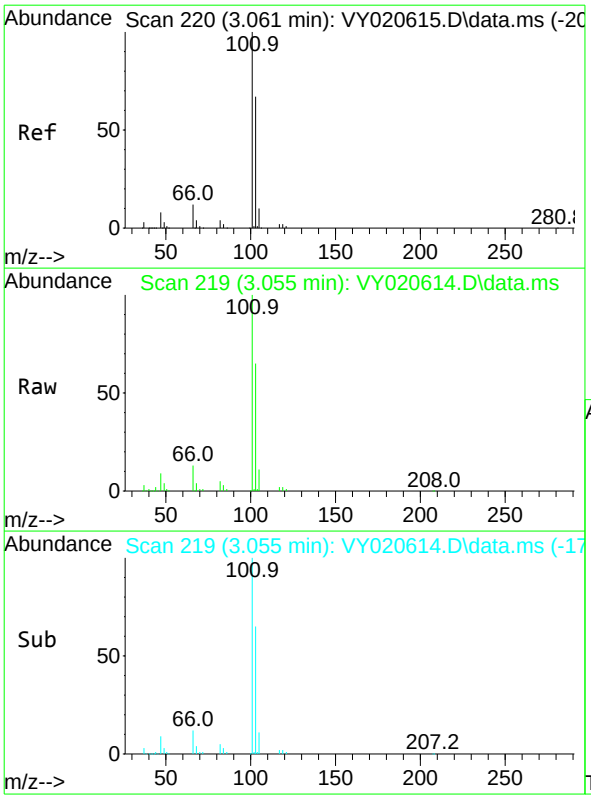



#6
Chloroethane
Concen: 21.539 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 64 Resp: 20312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.2 | 25.8 | 38.6 |

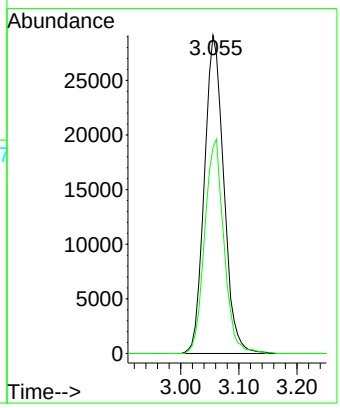





#7
Trichlorofluoromethane
Concen: 21.169 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:101 Resp: 67594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.8 | 53.4 | 80.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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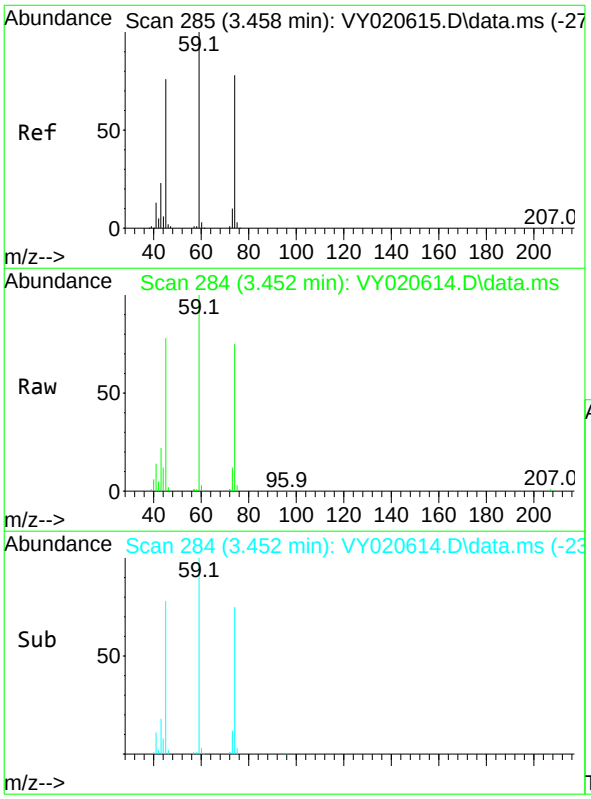
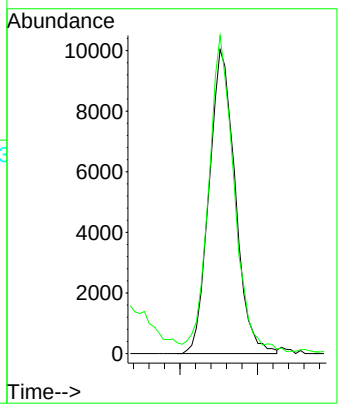
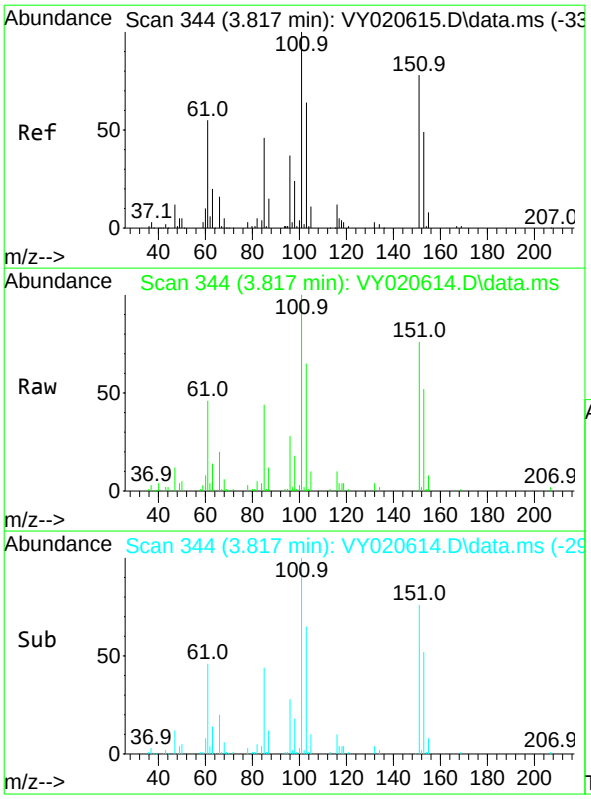



#8
Diethyl Ether
Concen: 20.878 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 74 Resp: 23380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 101.5 | 49.0 | 147.2 |

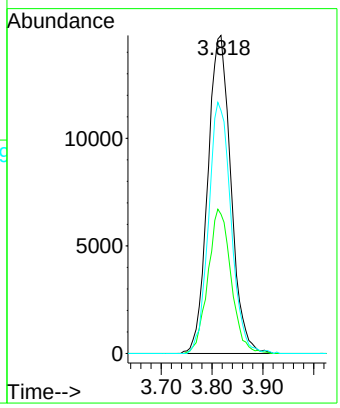





#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.403 ug/l
RT: 3.817 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:101 Resp: 46696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.1 | 36.6 | 54.8 |
| 151 | 76.9 | 61.5 | 92.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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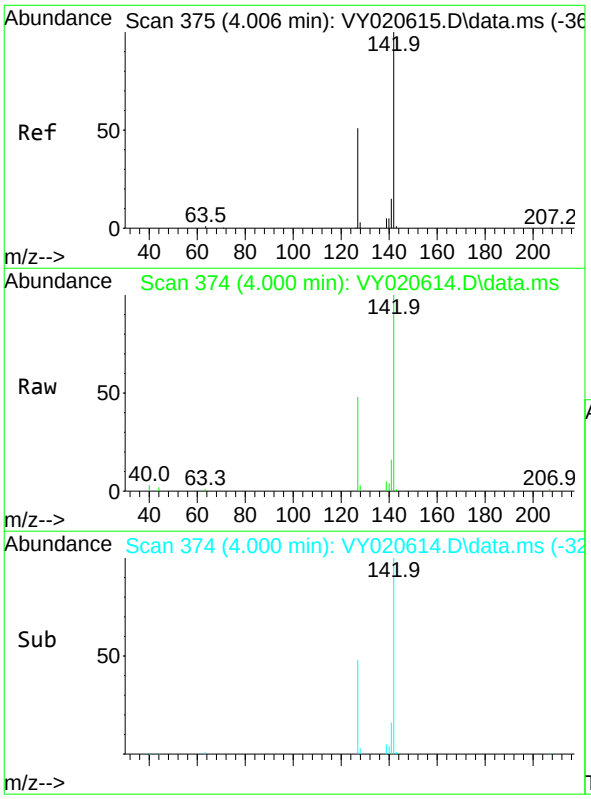
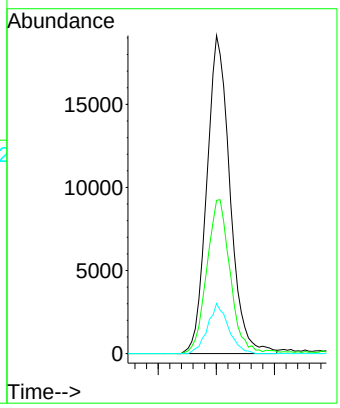
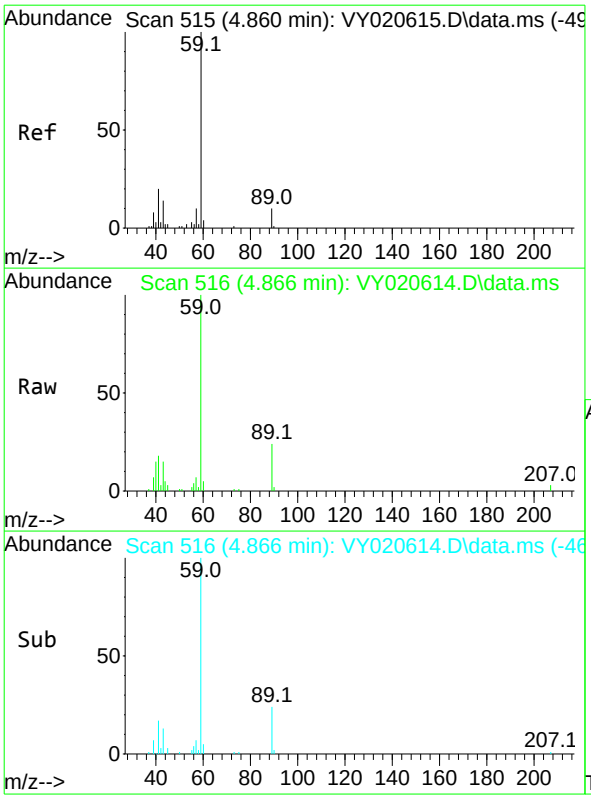



#10
Methyl Iodide
Concen: 20.758 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:142 Resp: 52895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 48.7 | 40.6 | 61.0 |
| 141 | 14.2 | 11.7 | 17.5 |

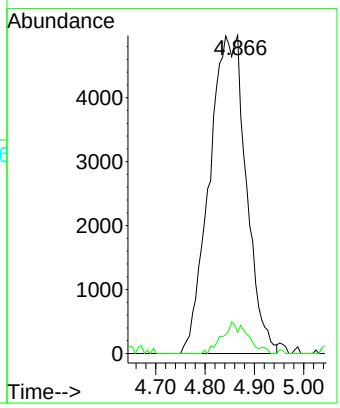





#11
Tert butyl alcohol
Concen: 106.274 ug/l
RT: 4.866 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 59 Resp: 25807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 6.5 | 7.4 | 11.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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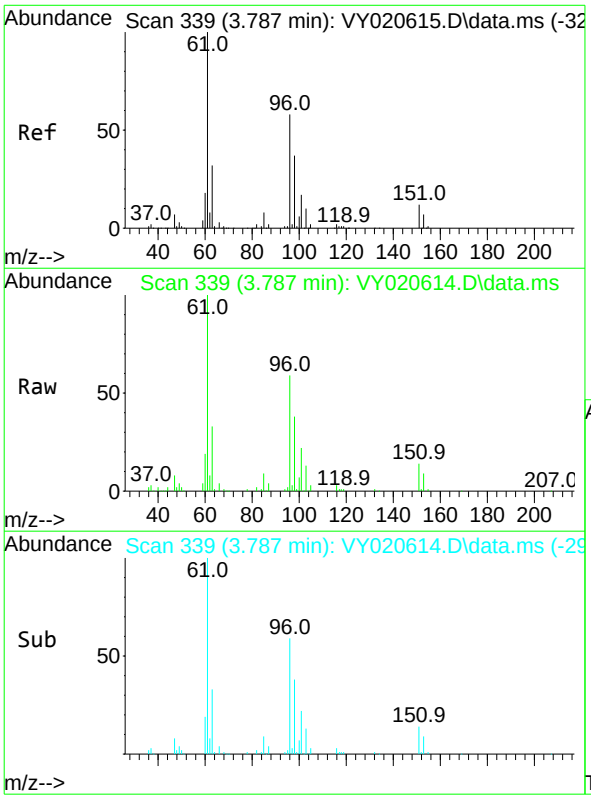
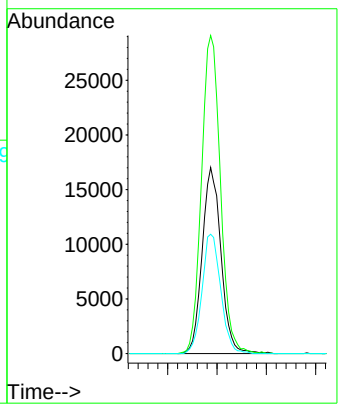
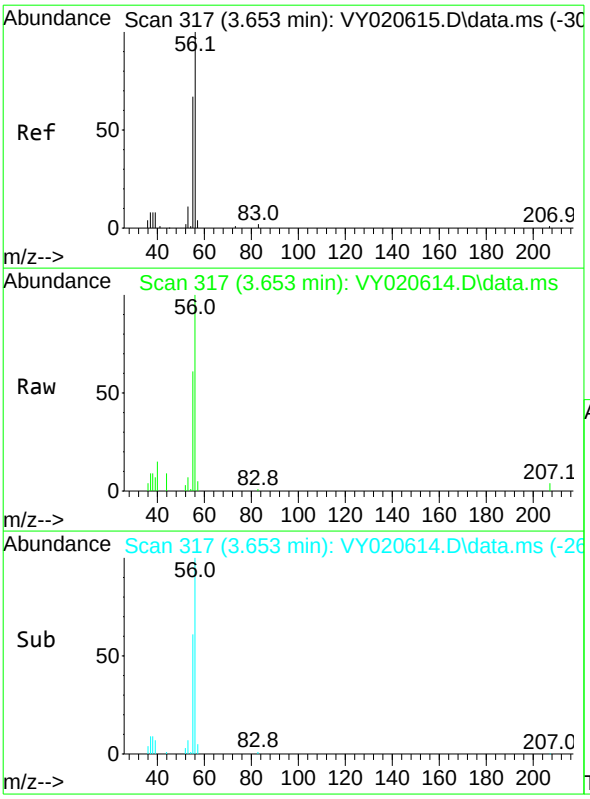



#12
1,1-Dichloroethene
Concen: 20.319 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 96 Resp: 45124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.9 | 136.9 | 205.3 |
| 98 | 64.1 | 50.2 | 75.4 |

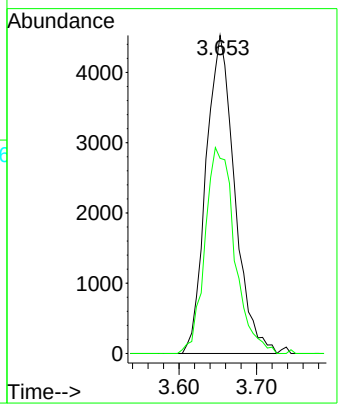





#13
Acrolein
Concen: 126.557 ug/l
RT: 3.653 min Scan# 31
Delta R.T. -0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 56 Resp: 11611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 67.2 | 57.5 | 86.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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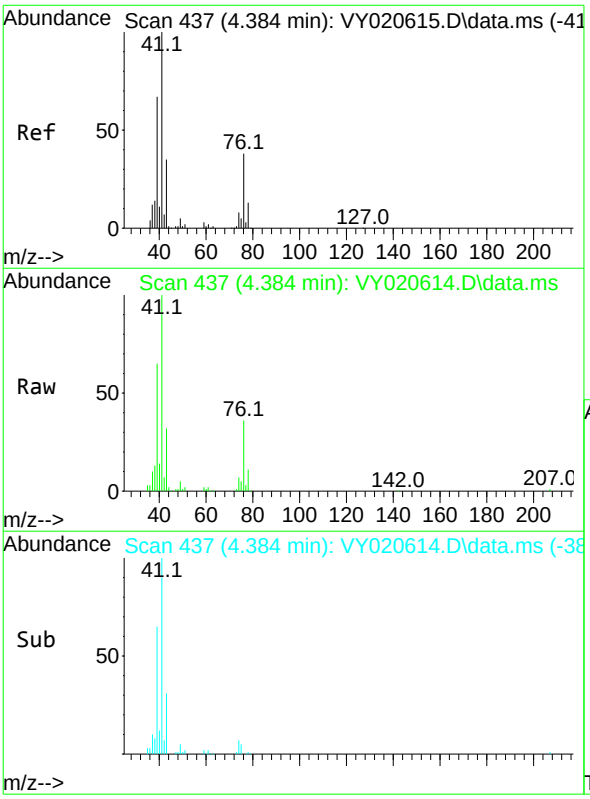
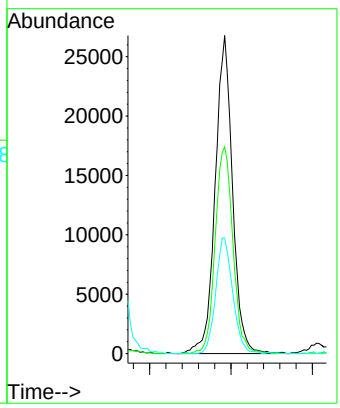
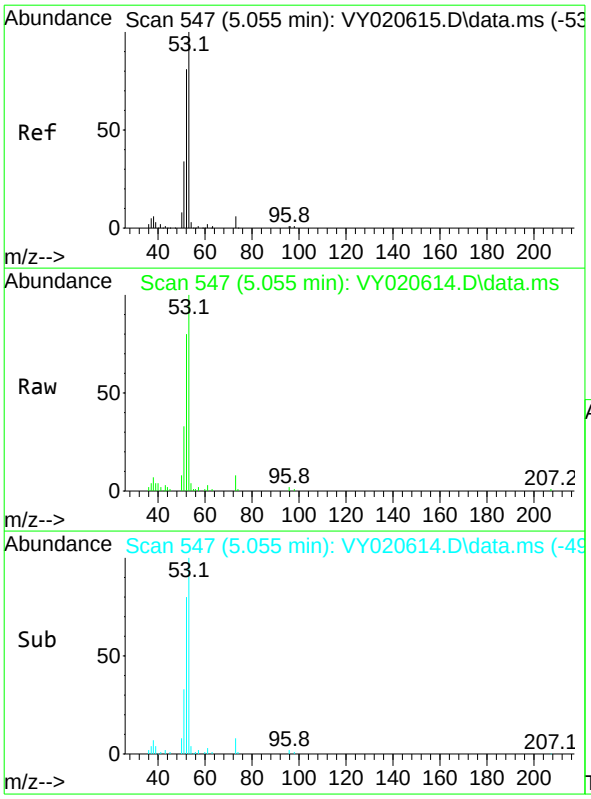



#14
Allyl chloride
Concen: 20.368 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 41 Resp: 79257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.5 | 53.0 | 79.4 |
| 76 | 35.6 | 29.5 | 44.3 |

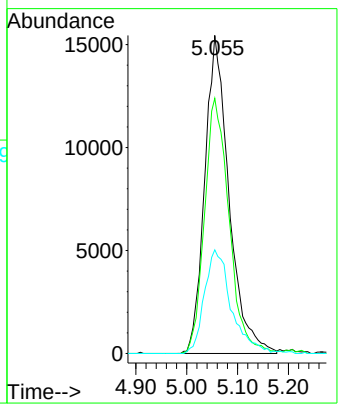





#15
Acrylonitrile
Concen: 95.416 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 53 Resp: 51118

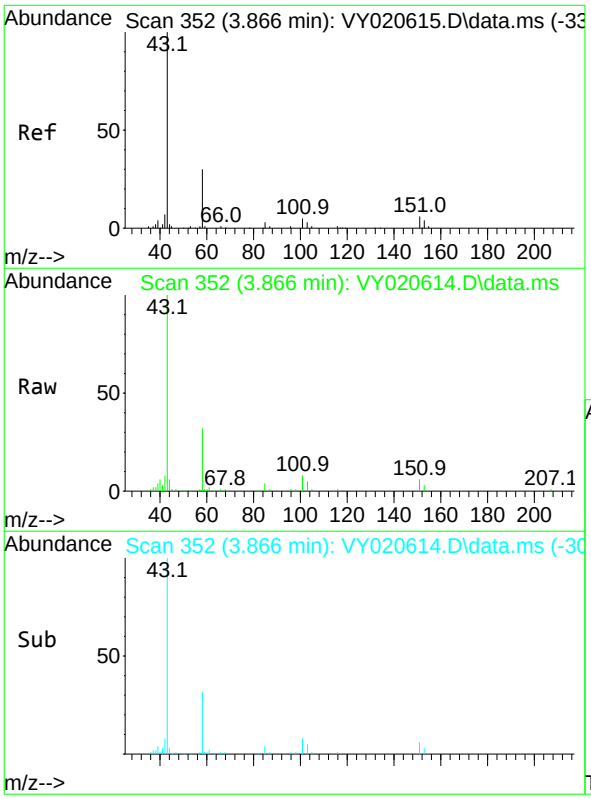
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.2 | 64.5 | 96.7 |
| 51 | 36.1 | 29.4 | 44.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

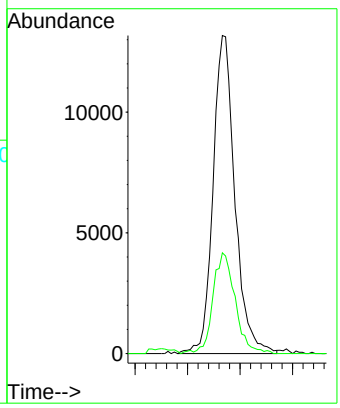
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

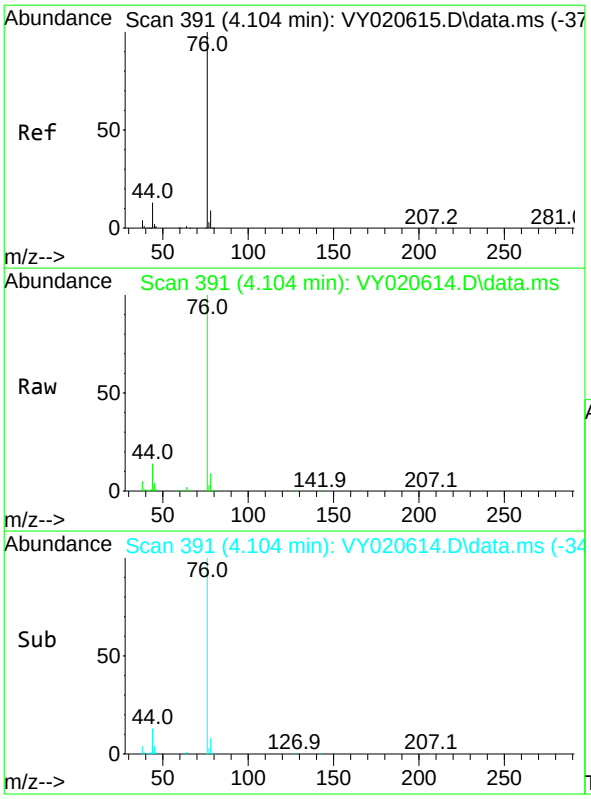



#16
Acetone
Concen: 94.781 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 38075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.7 | 25.0 | 37.6 |

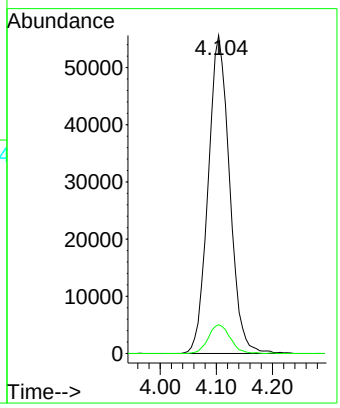





#17
Carbon Disulfide
Concen: 20.416 ug/l
RT: 4.104 min Scan# 39
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 76 Resp: 147576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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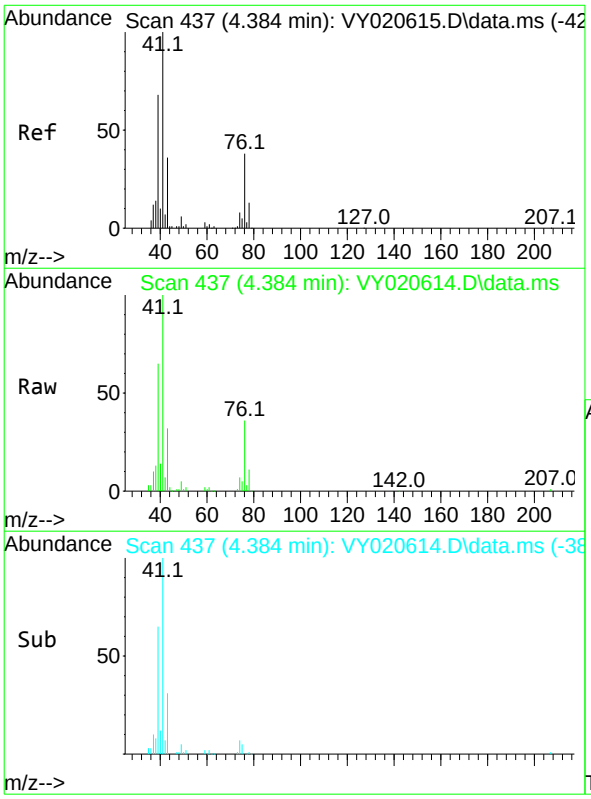
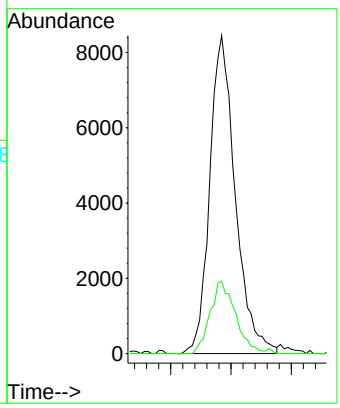
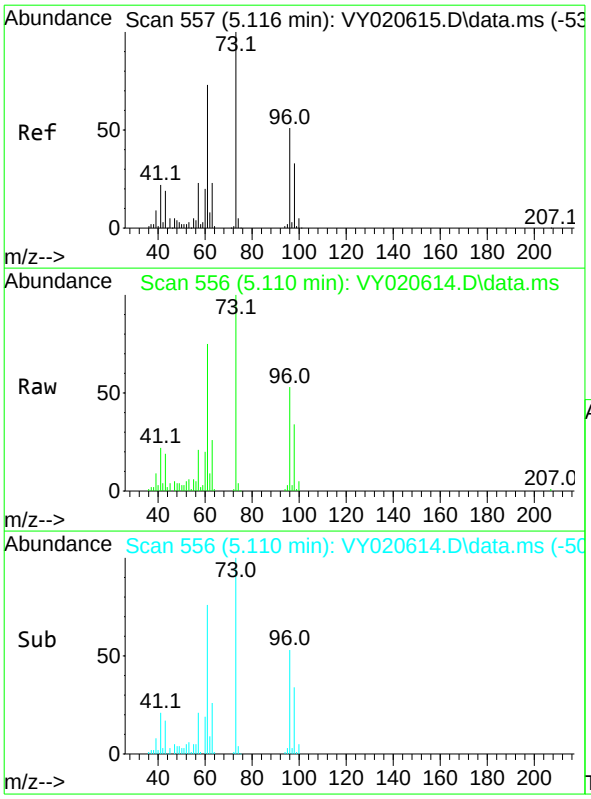



#18
Methyl Acetate
Concen: 18.851 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 24886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.7 | 19.2 | 28.8 |

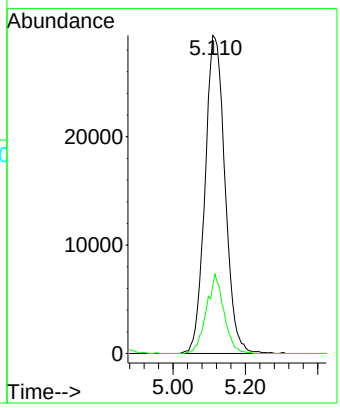





#19
Methyl tert-butyl Ether
Concen: 19.582 ug/l
RT: 5.110 min Scan# 55
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 73 Resp: 112241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 18.5 | 27.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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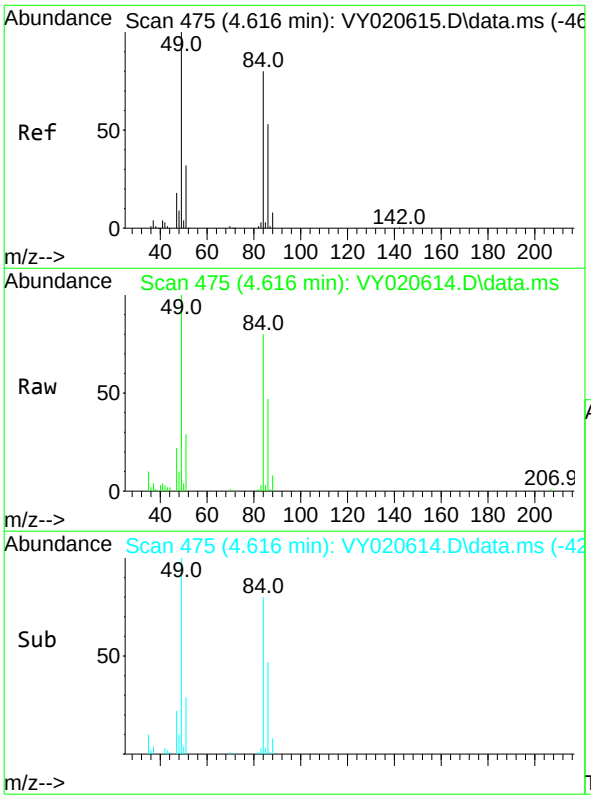
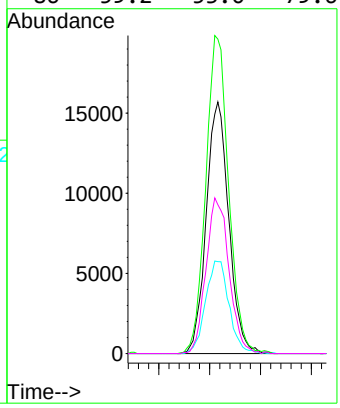
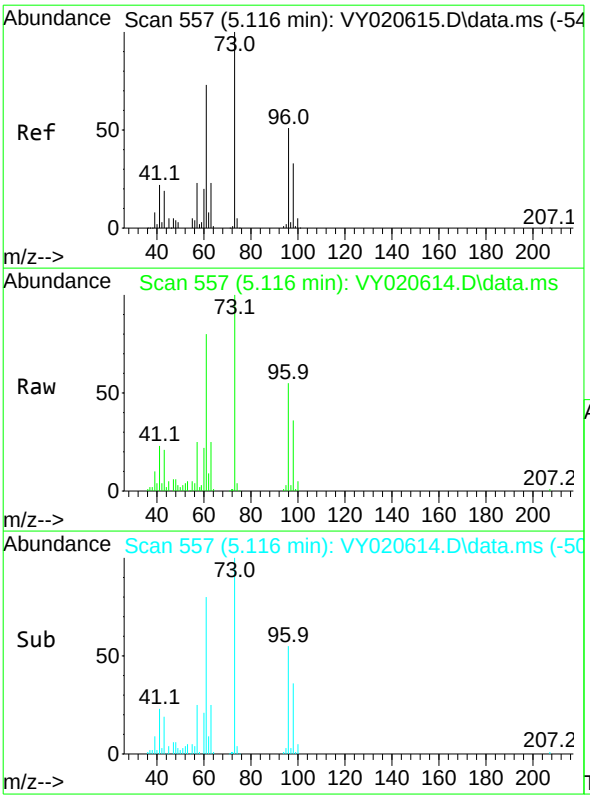



#20
Methylene Chloride
Concen: 20.076 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 84 Resp: 48431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.0 | 100.7 | 151.1 |
| 51 | 36.5 | 32.2 | 48.2 |
| 86 | 59.2 | 53.0 | 79.6 |

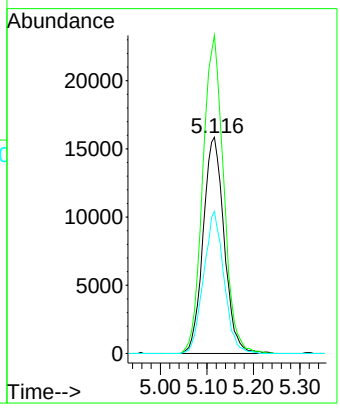





#21
trans-1,2-Dichloroethene
Concen: 19.997 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 96 Resp: 49814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.0 | 113.7 | 170.5 |
| 98 | 65.6 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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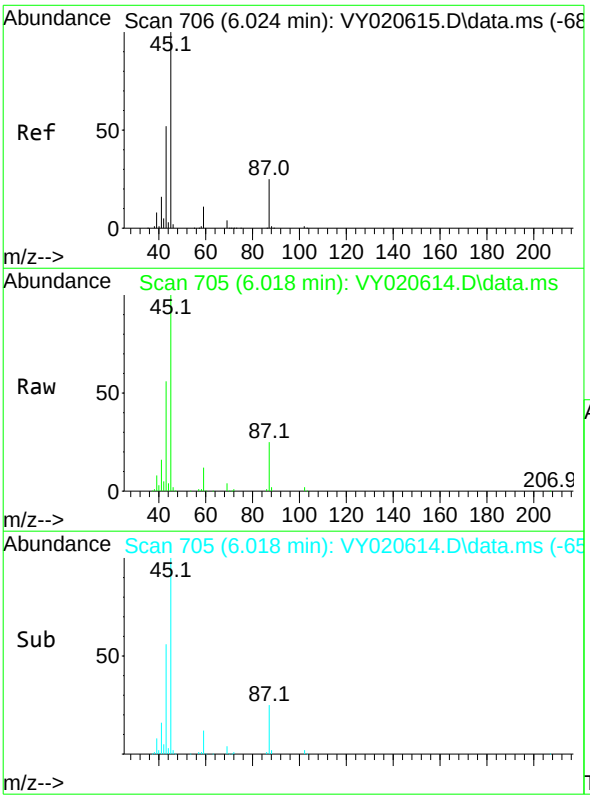
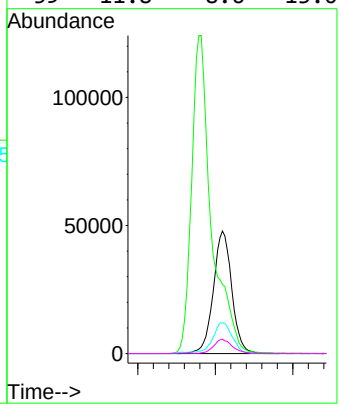
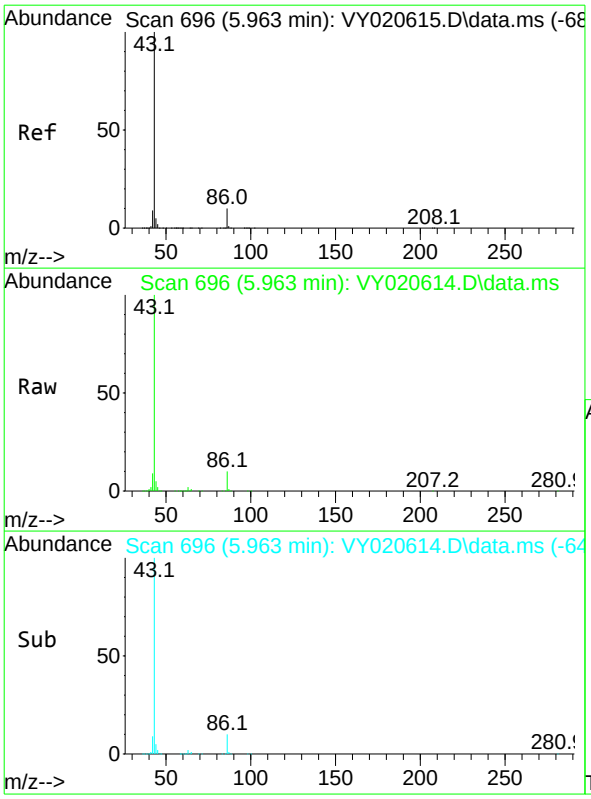



#22
Diisopropyl ether
Concen: 20.055 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 45 Resp: 158410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 55.9 | 42.6 | 64.0 |
| 87 | 25.1 | 20.6 | 31.0 |
| 59 | 11.8 | 8.6 | 13.0 |






#23
Vinyl Acetate
Concen: 98.587 ug/l
RT: 5.963 min Scan# 69
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 441039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.0 | 8.1 | 12.1 |

**Instrument :**
MSVOA_Y
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VSTDICC020

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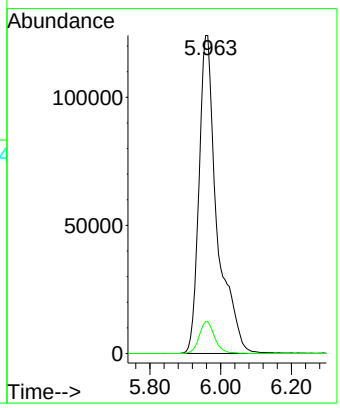
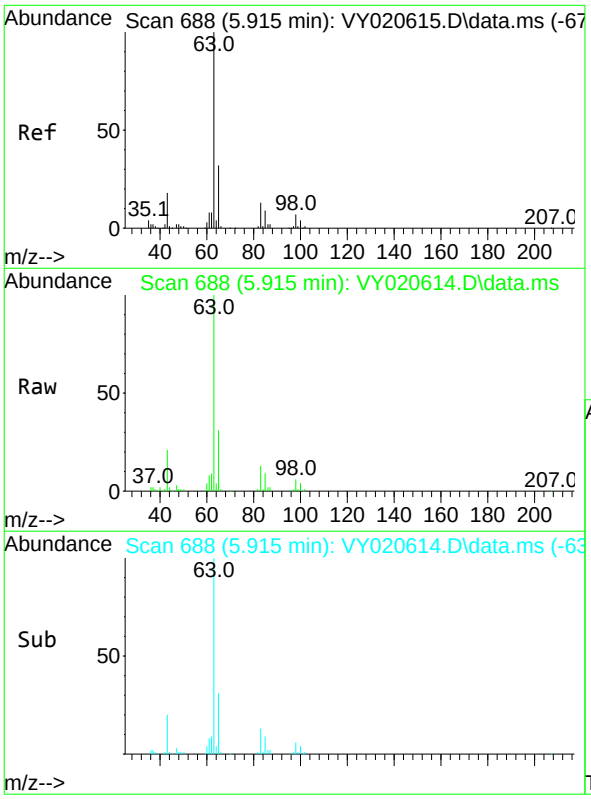
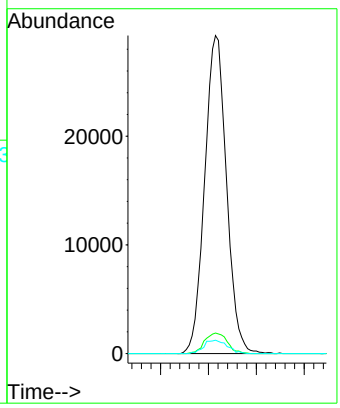


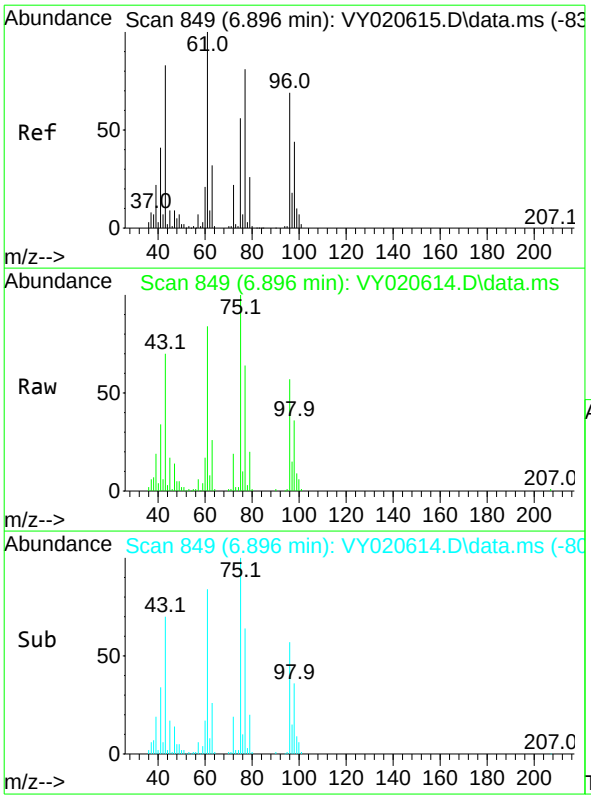




#24
1,1-Dichloroethane
Concen: 20.011 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 63 Resp: 92599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.5 | 3.4 | 10.1 |
| 100 | 4.2 | 2.1 | 6.5 |

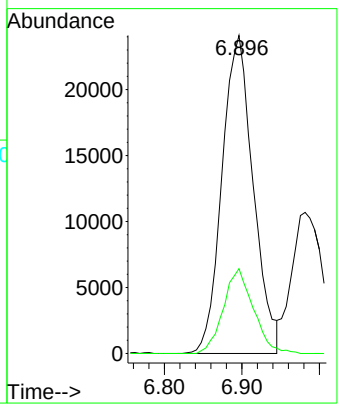





#25
2-Butanone
Concen: 93.608 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 67498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.7 | 20.6 | 31.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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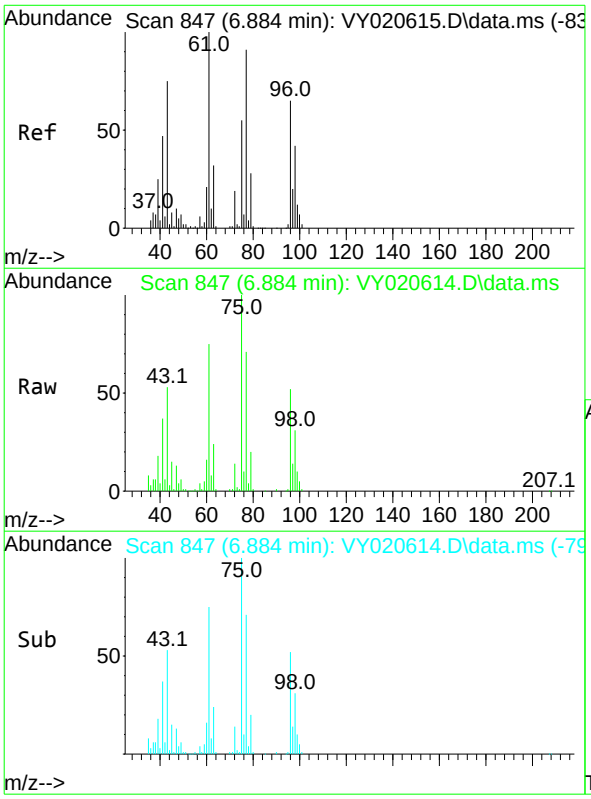
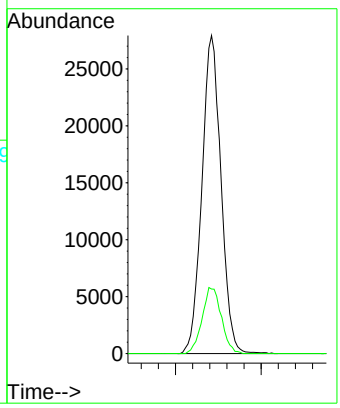
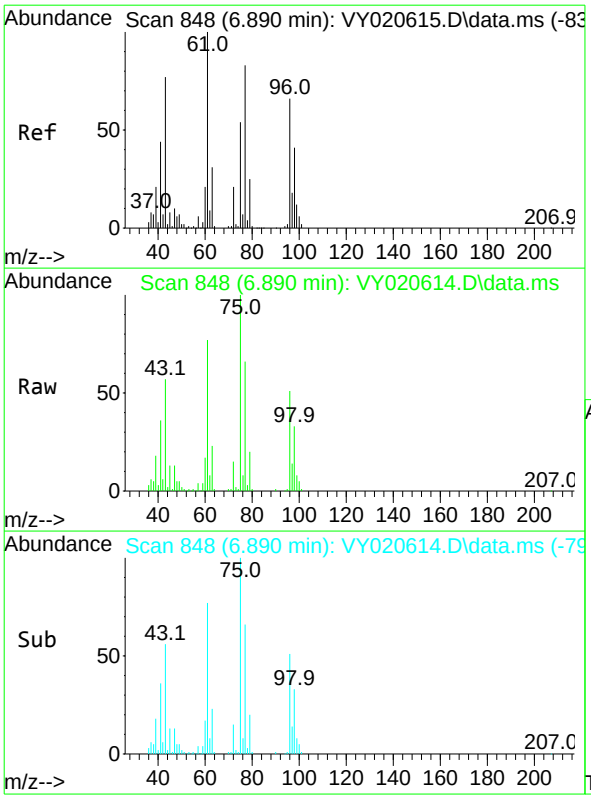



#26
2,2-Dichloropropane
Concen: 19.750 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 77 Resp: 86393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 20.9 | 10.9 | 32.6 |

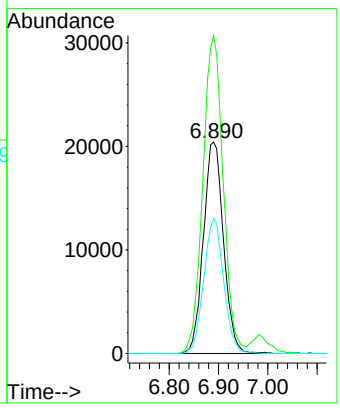





#27
cis-1,2-Dichloroethene
Concen: 20.149 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 96 Resp: 57749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 152.3 | 0.0 | 306.2 |
| 98 | 63.2 | 0.0 | 127.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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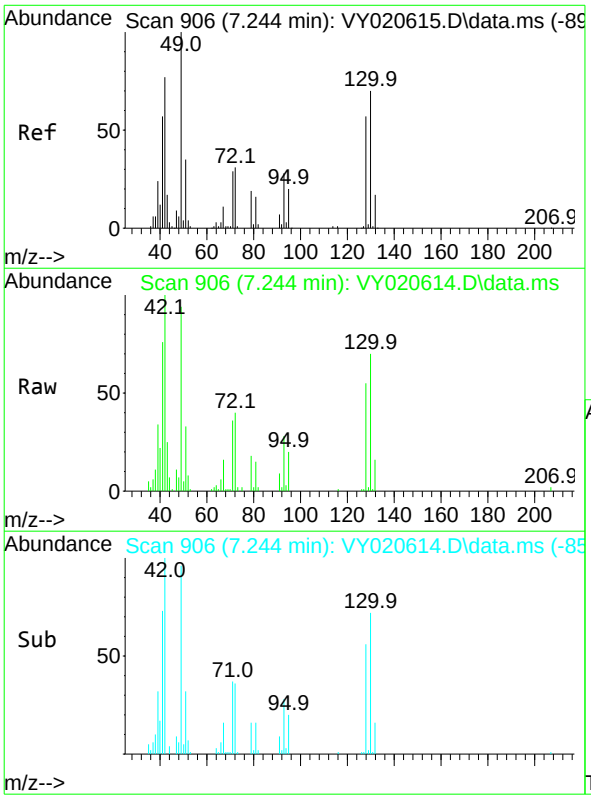
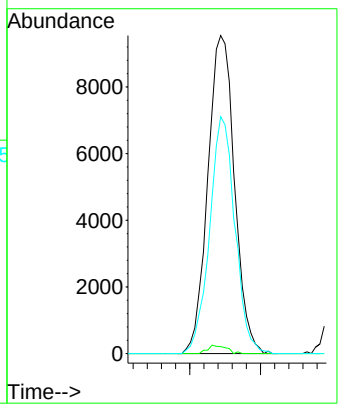
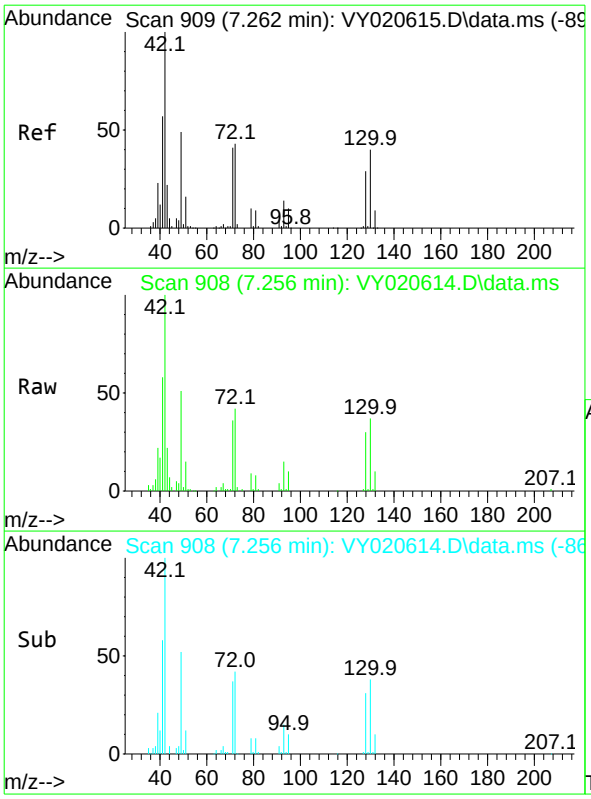



#28
Bromochloromethane
Concen: 16.009 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 49 Resp: 24987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.8 |
| 130 | 70.9 | 58.3 | 87.5 |

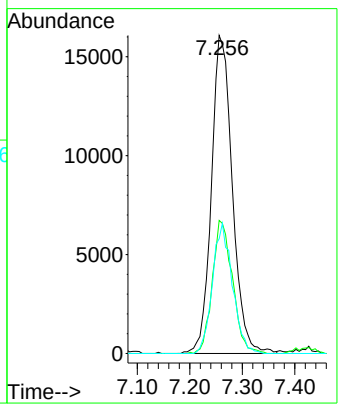





#29
Tetrahydrofuran
Concen: 98.059 ug/l
RT: 7.256 min Scan# 90
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 42 Resp: 44636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.3 | 34.0 | 51.0 |
| 71 | 38.9 | 31.6 | 47.4 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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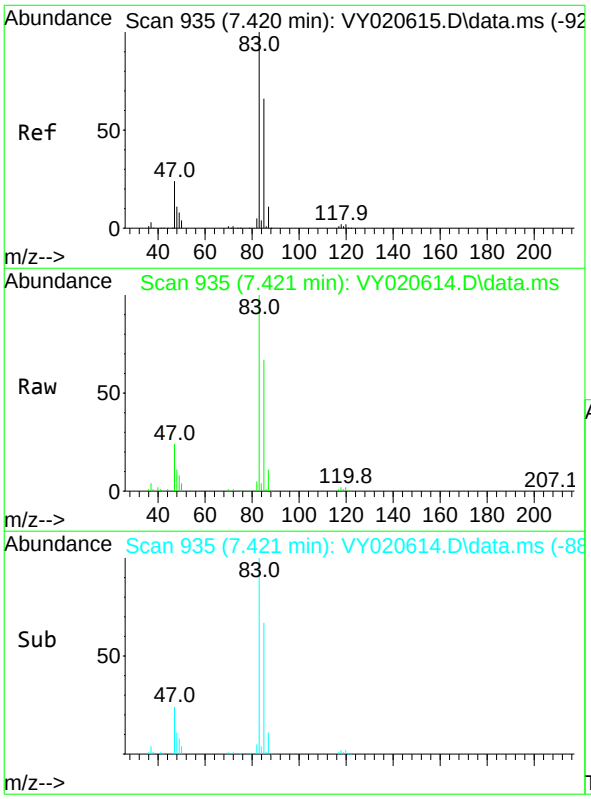
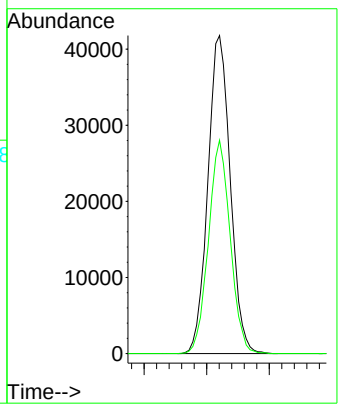
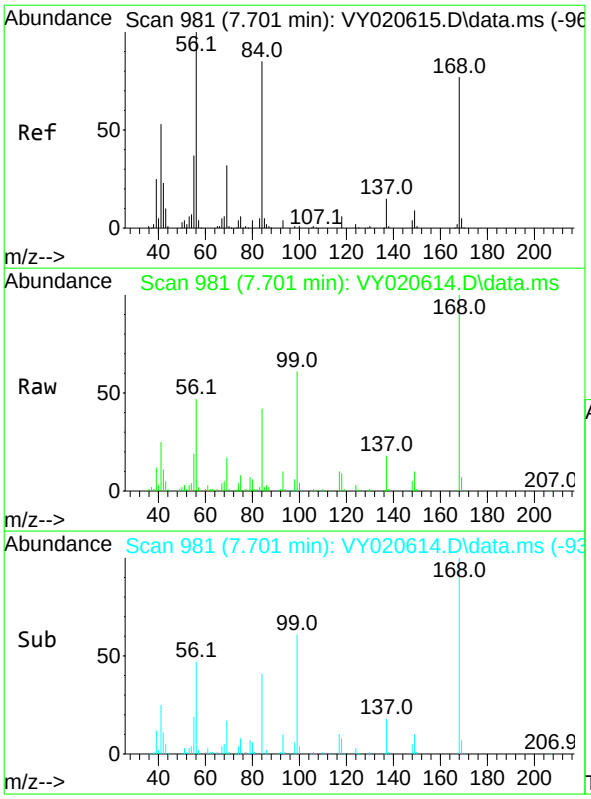



#30
Chloroform
Concen: 19.065 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 83 Resp: 103806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.1 | 52.7 | 79.1 |

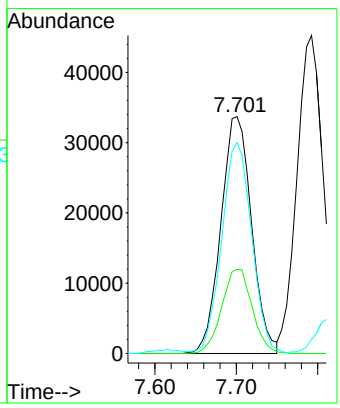





#31
Cyclohexane
Concen: 19.966 ug/l
RT: 7.701 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 56 Resp: 88339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.5 | 25.4 | 38.0 |
| 84 | 87.8 | 68.3 | 102.5 |

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VSTDICC020

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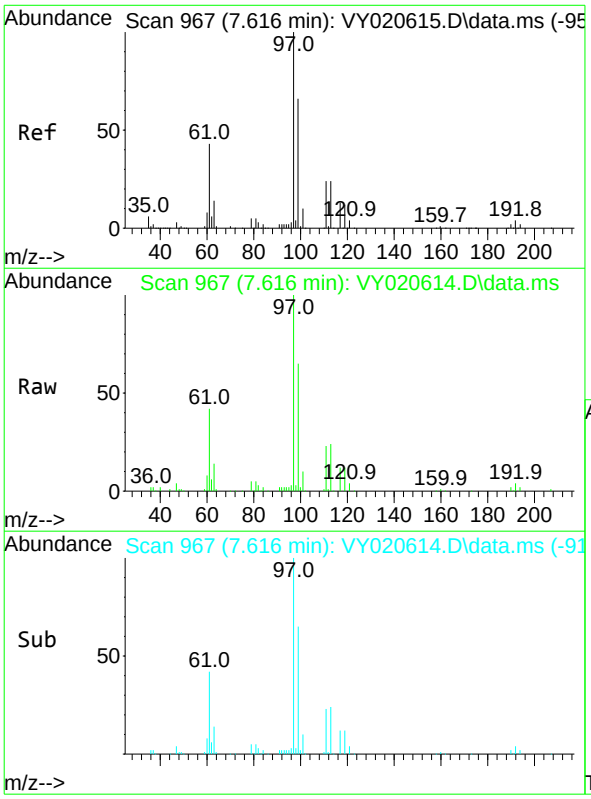
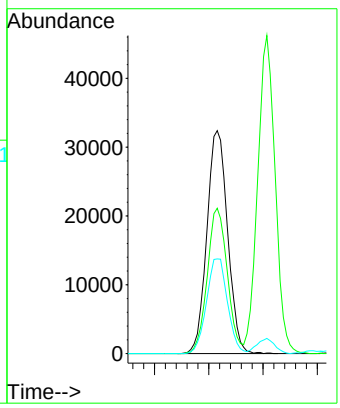
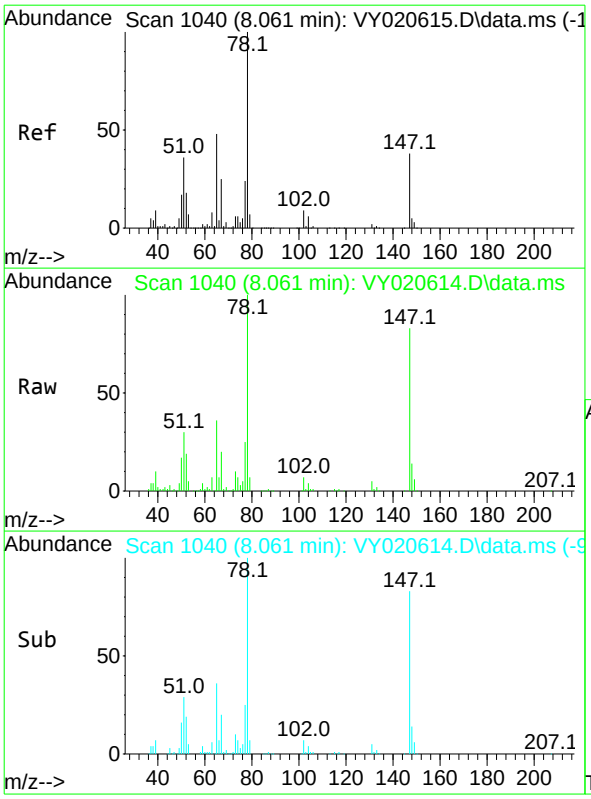



#32
1,1,1-Trichloroethane
Concen: 20.249 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 97 Resp: 86081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.3 | 51.6 | 77.4 |
| 61 | 43.0 | 34.7 | 52.1 |

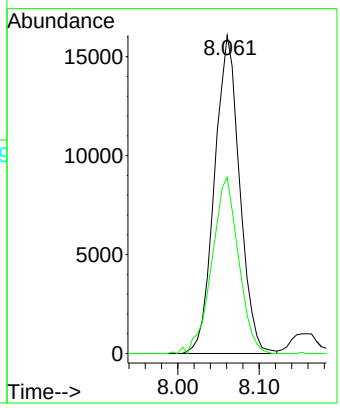





#33
1,2-Dichloroethane-d4
Concen: 17.777 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 65 Resp: 34492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 58.8 | 0.0 | 108.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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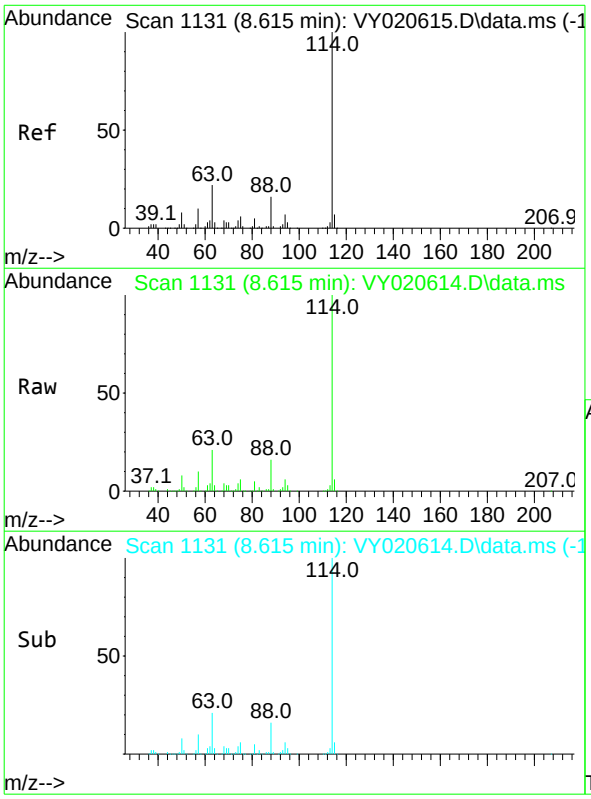
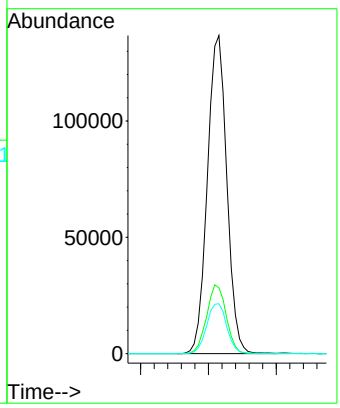
Supervised By :Semsettin Yesilyurt 12/18/2024

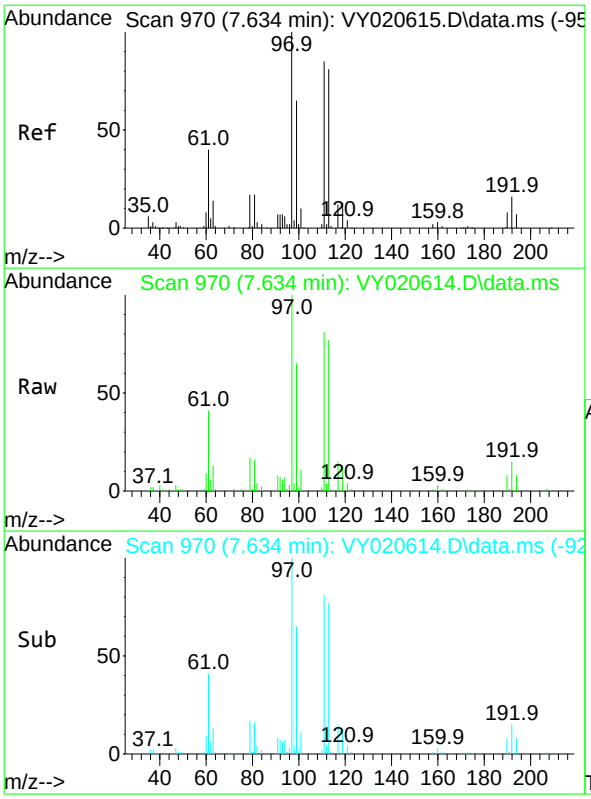



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:114 Resp: 272612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 44.0 |
| 88 | 15.7 | 0.0 | 32.8 |

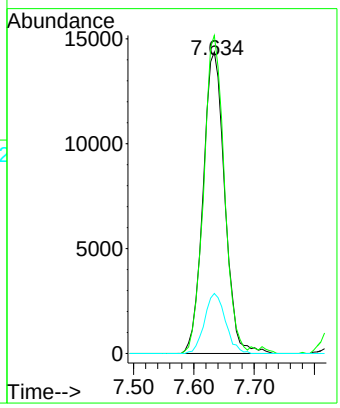





#35
Dibromofluoromethane
Concen: 18.603 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:113 Resp: 35742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.5 | 82.9 | 124.3 |
| 192 | 19.3 | 15.7 | 23.5 |




**Instrument :**
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VSTDICC020

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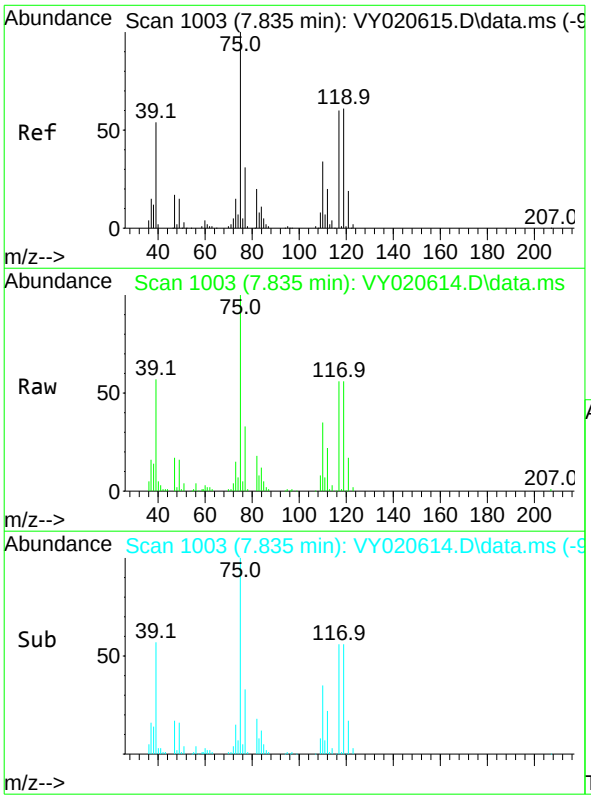
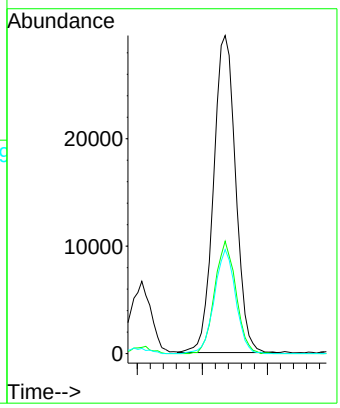
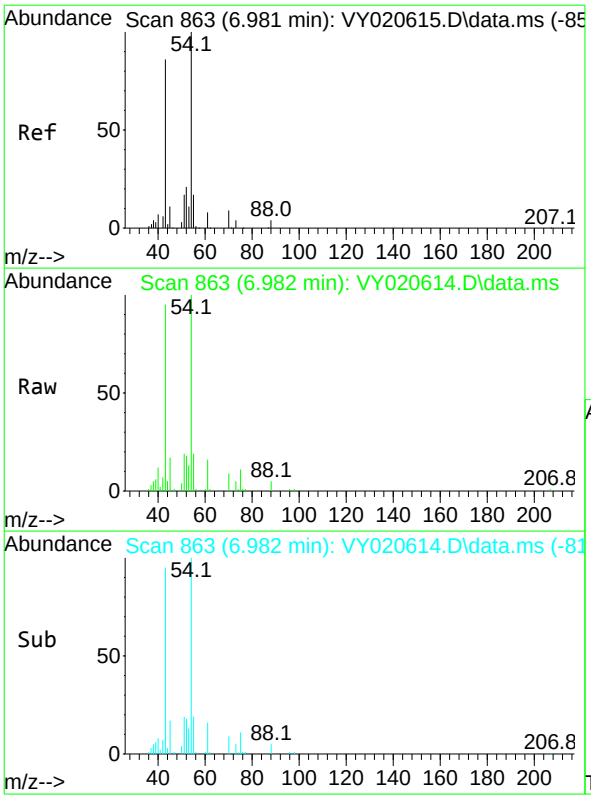



#36
1,1-Dichloropropene
Concen: 19.828 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 75 Resp: 69466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.2 | 16.8 | 50.4 |
| 77 | 31.8 | 25.0 | 37.6 |

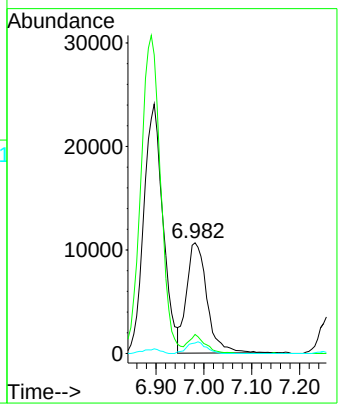





#37
Ethyl Acetate
Concen: 19.166 ug/l
RT: 6.982 min Scan# 86
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 31585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.1 | 11.0 | 16.4 |
| 70 | 9.6 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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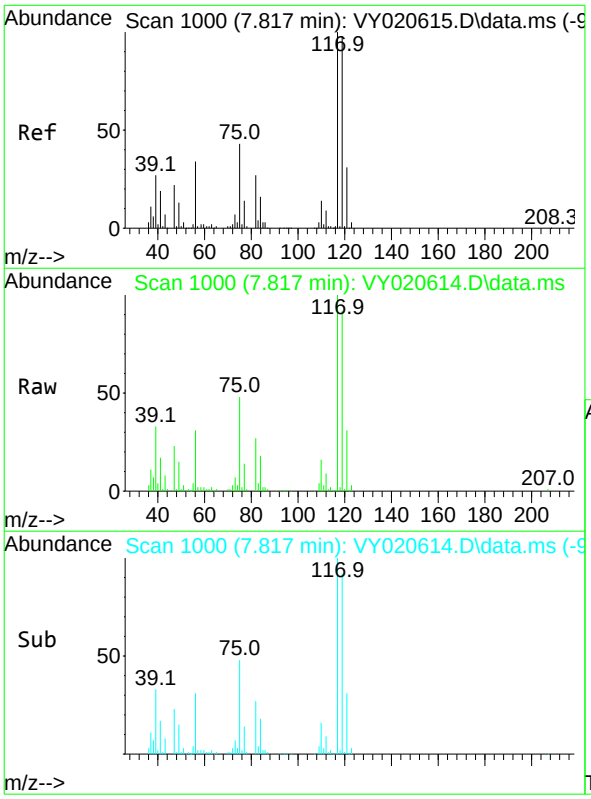
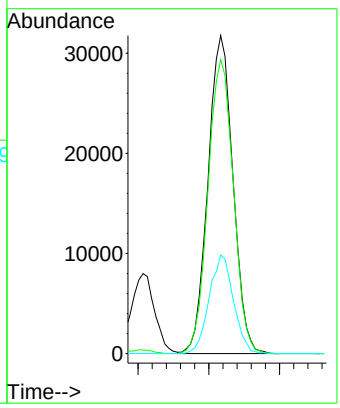
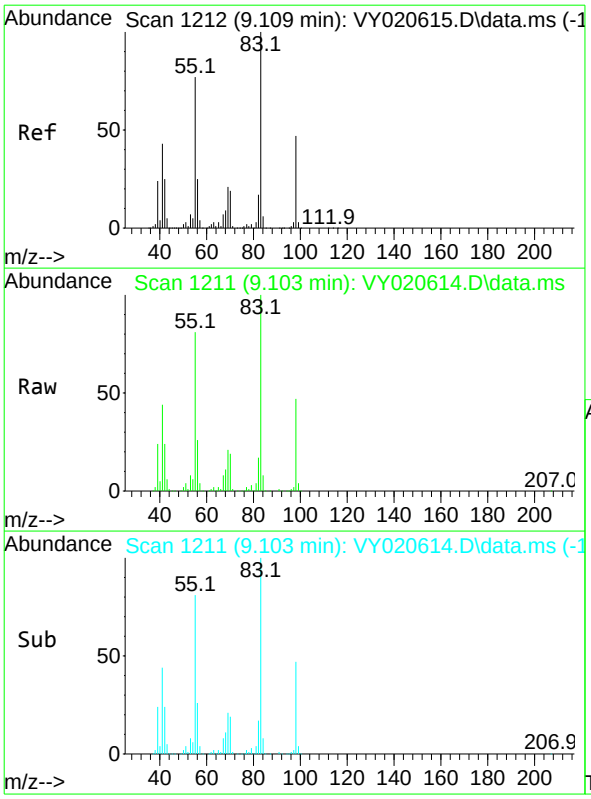



#38
Carbon Tetrachloride
Concen: 20.109 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:117 Resp: 77945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.4 | 78.3 | 117.5 |
| 121 | 31.0 | 25.1 | 37.7 |

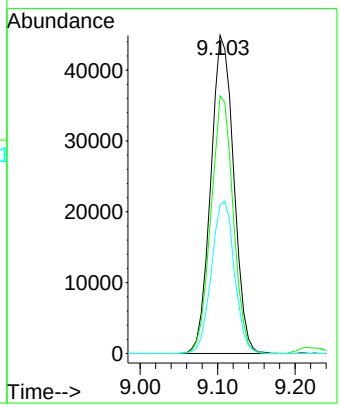





#39
Methylcyclohexane
Concen: 20.249 ug/l
RT: 9.103 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 83 Resp: 92458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 81.0 | 61.4 | 92.0 |
| 98 | 46.8 | 37.3 | 55.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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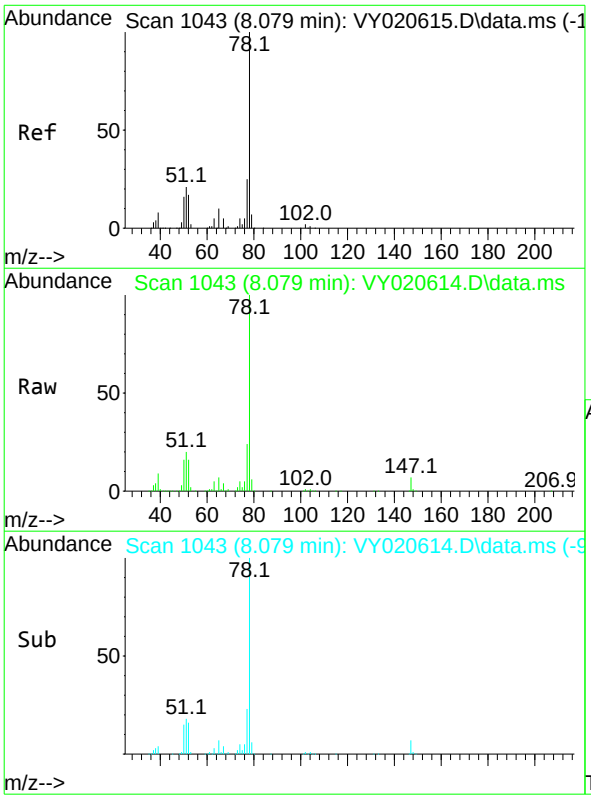
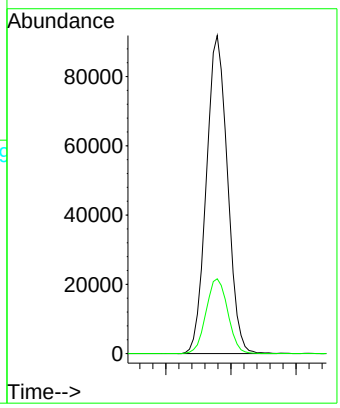
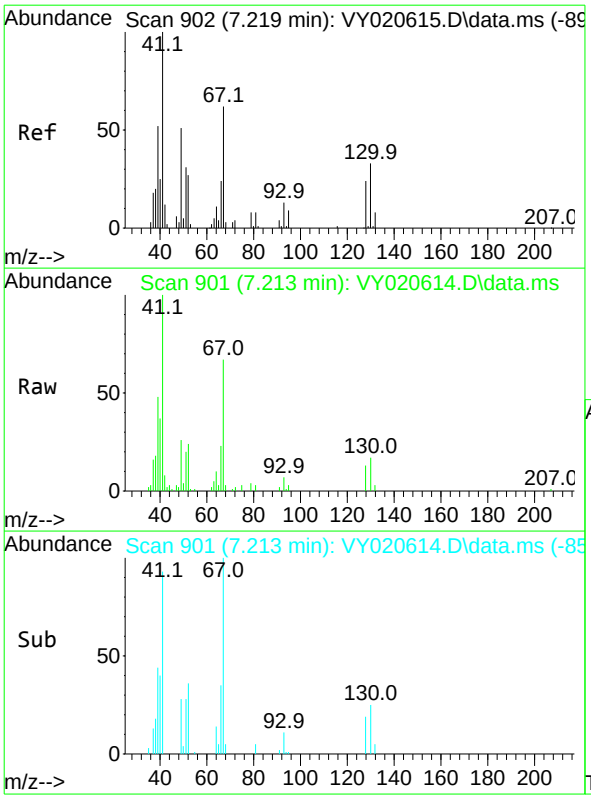



#40
Benzene
Concen: 20.176 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 78 Resp: 207185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 20.1 | 30.1 |

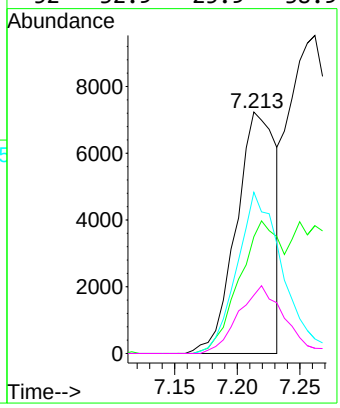





#41
Methacrylonitrile
Concen: 18.232 ug/l
RT: 7.213 min Scan# 90
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 41 Resp: 15884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.0 | 53.6 | 80.4 |
| 67 | 77.5 | 62.0 | 93.0 |
| 52 | 32.9 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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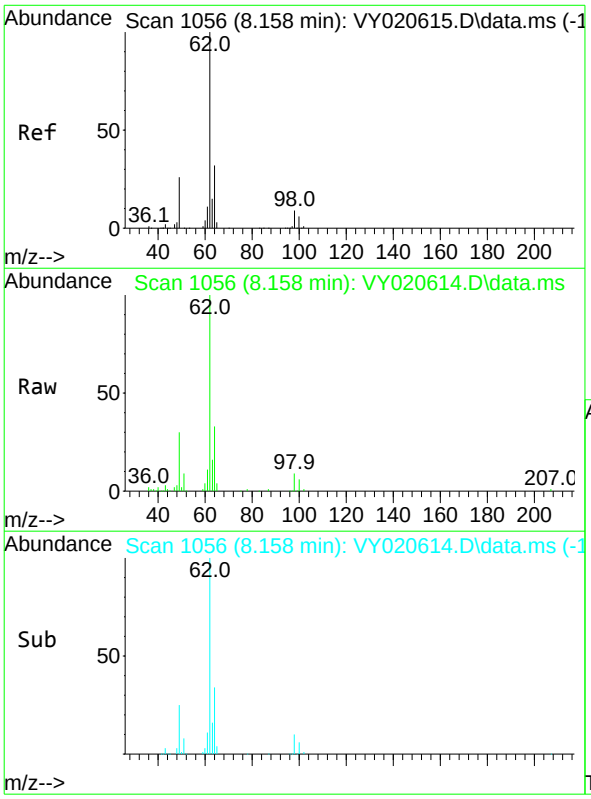
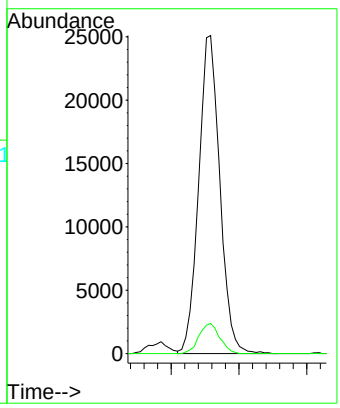
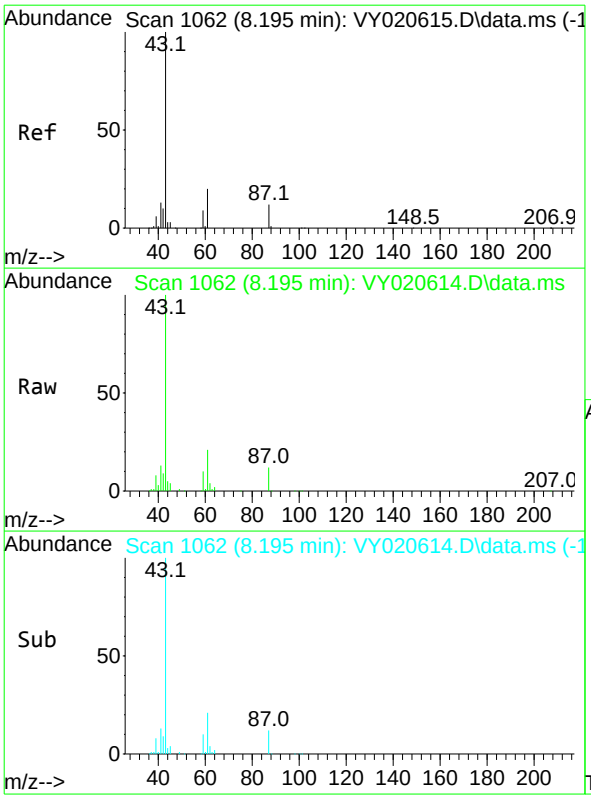



#42
1,2-Dichloroethane
Concen: 19.983 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 62 Resp: 54425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.3 | 0.0 | 18.0 |

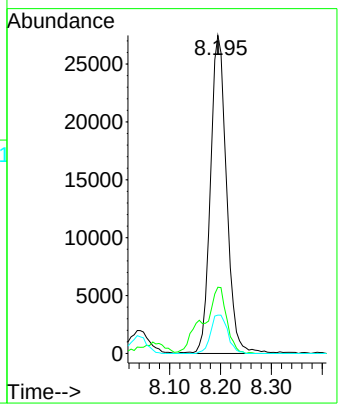





#43
Isopropyl Acetate
Concen: 19.375 ug/l
RT: 8.195 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 60446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.4 | 23.8 | 35.6# |
| 87 | 12.8 | 10.2 | 15.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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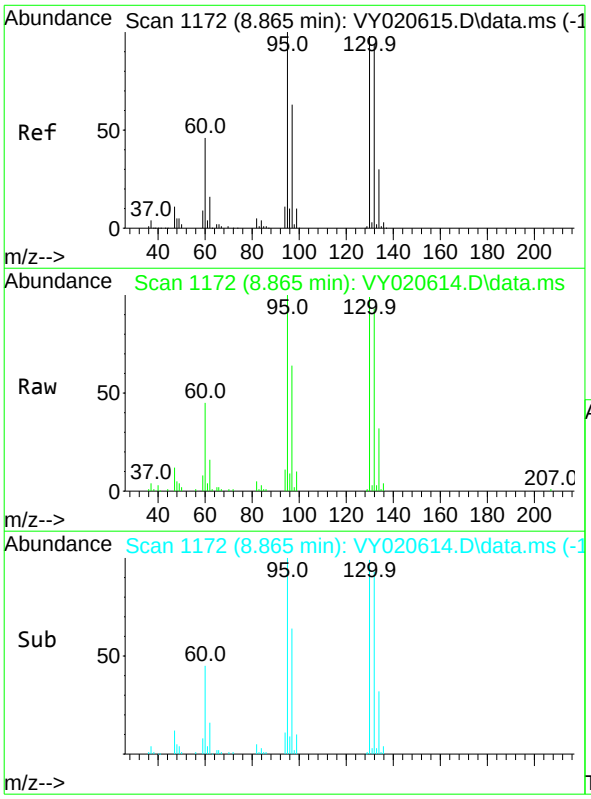
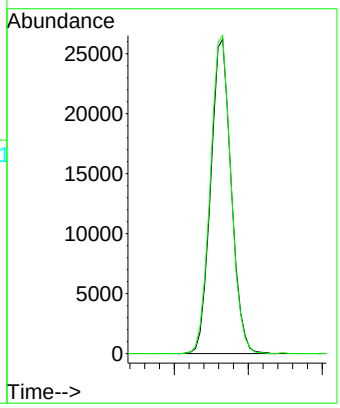
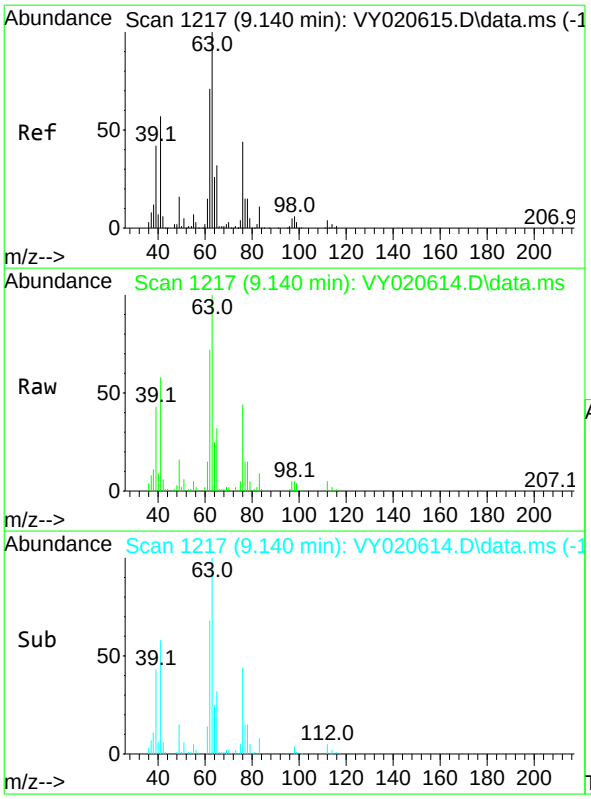



#44
Trichloroethene
Concen: 19.952 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:130 Resp: 50346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.2 | 0.0 | 203.2 |

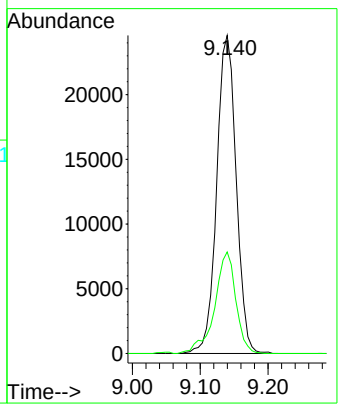





#45
1,2-Dichloropropane
Concen: 20.466 ug/l
RT: 9.140 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 63 Resp: 49119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.9 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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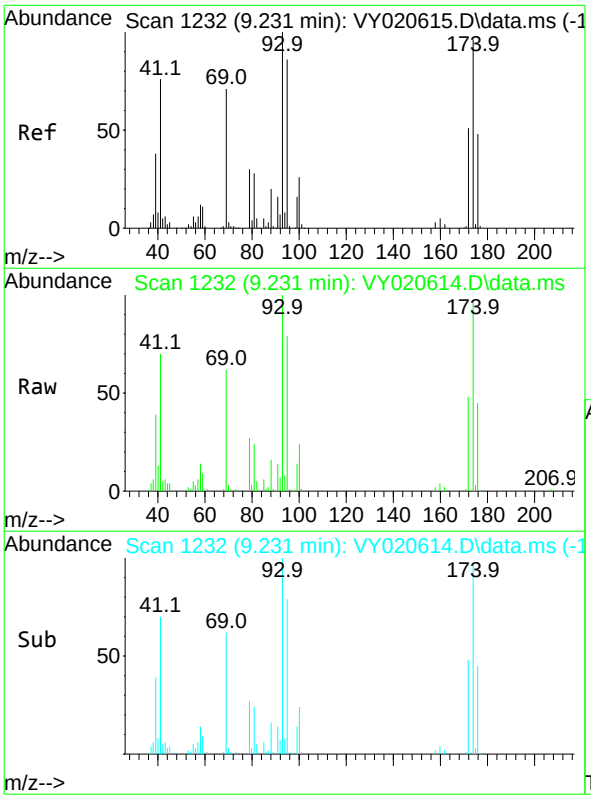
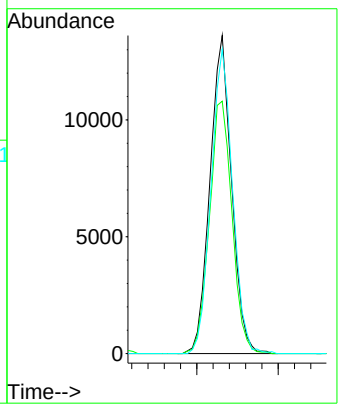
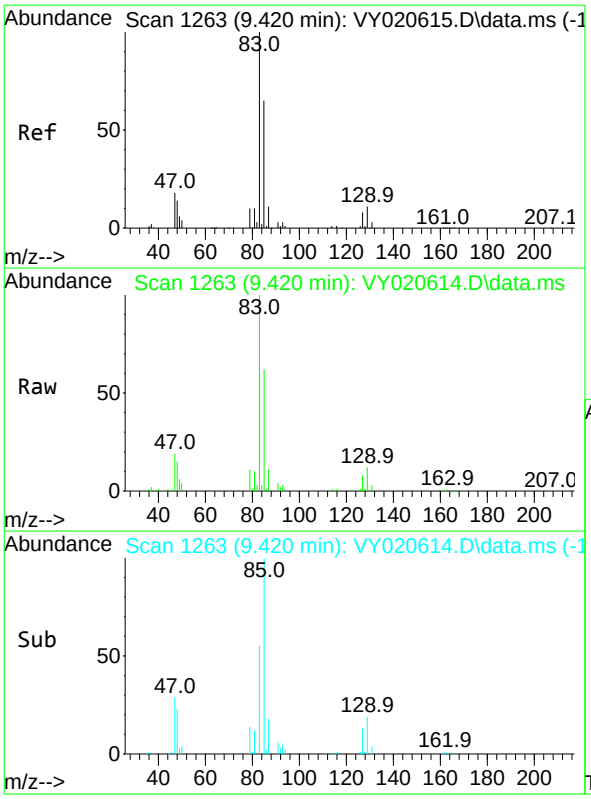



#46
Dibromomethane
Concen: 19.753 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 93 Resp: 25054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.1 | 66.7 | 100.1 |
| 174 | 95.6 | 77.8 | 116.6 |

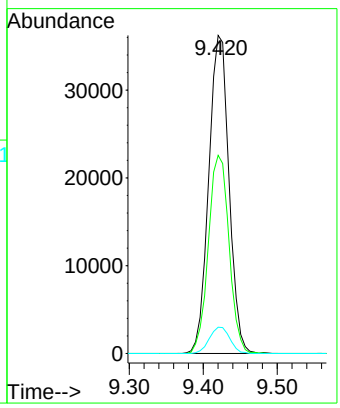





#47
Bromodichloromethane
Concen: 20.125 ug/l
RT: 9.420 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 83 Resp: 68951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.3 | 52.1 | 78.1 |
| 127 | 8.3 | 6.7 | 10.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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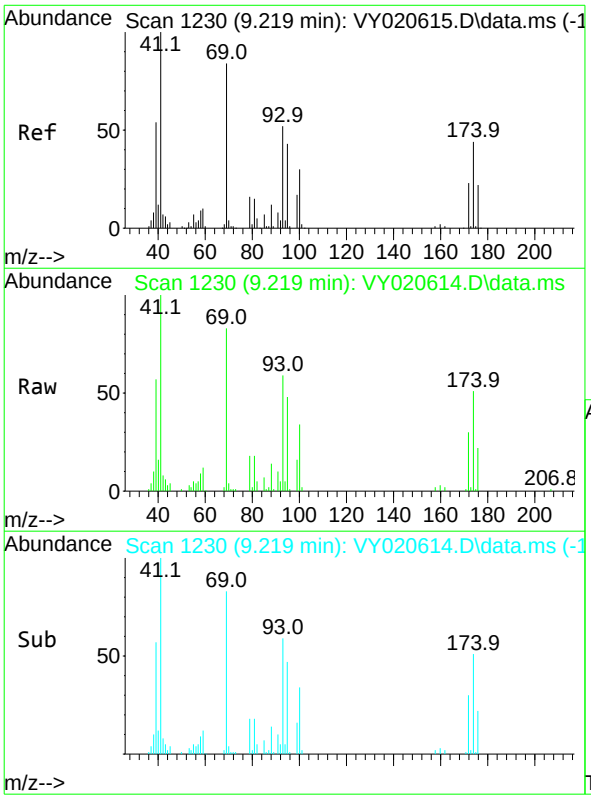
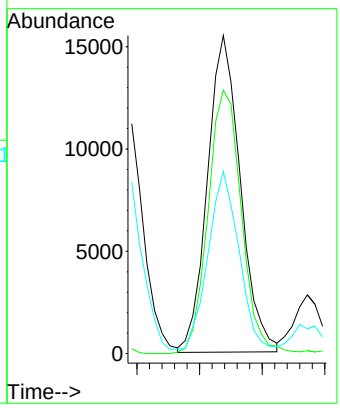
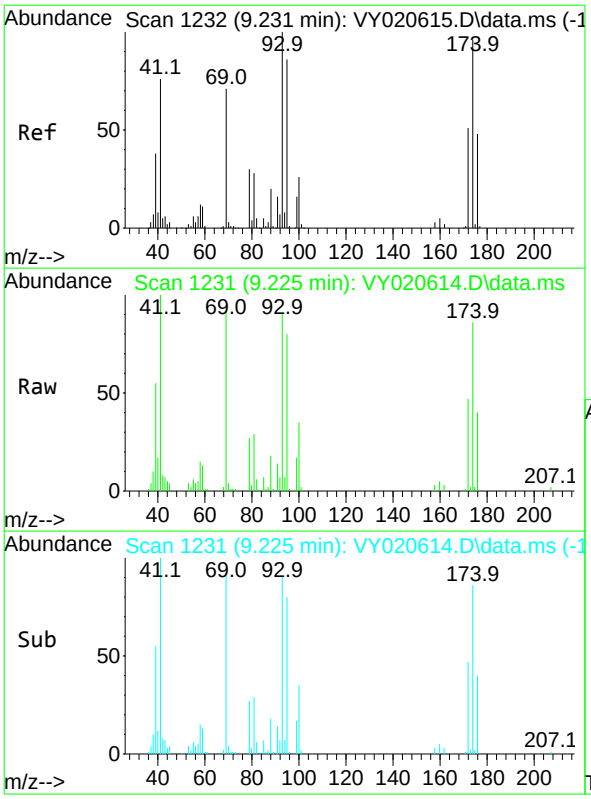



#48
Methyl methacrylate
Concen: 19.051 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 41 Resp: 28256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.4 | 67.2 | 100.8 |
| 39 | 53.2 | 42.2 | 63.4 |

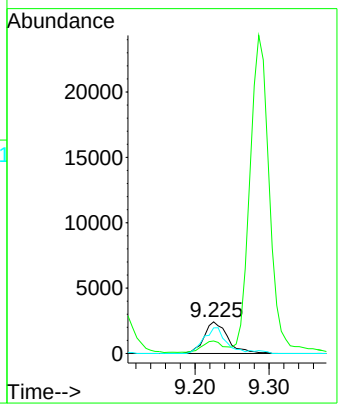





#49
1,4-Dioxane
Concen: 371.167 ug/l
RT: 9.225 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 88 Resp: 5399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.4 | 27.6 | 41.4 |
| 58 | 81.6 | 61.7 | 92.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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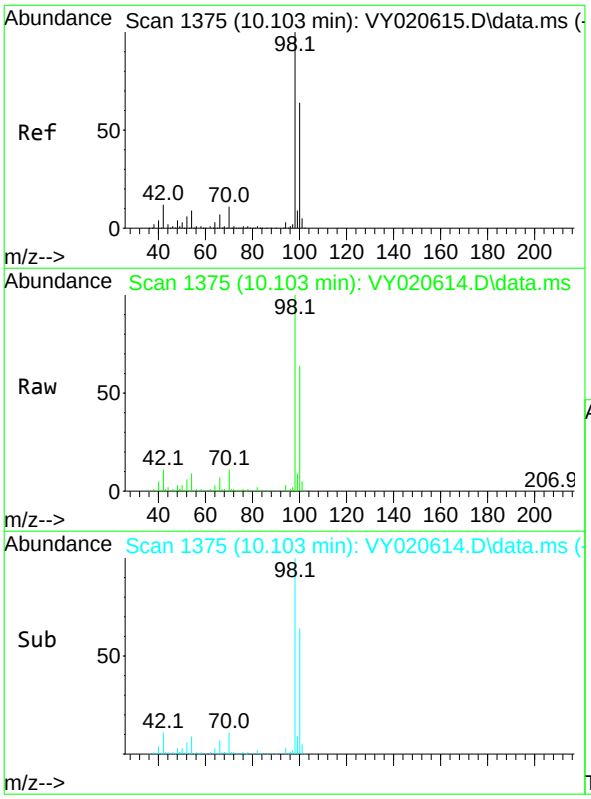
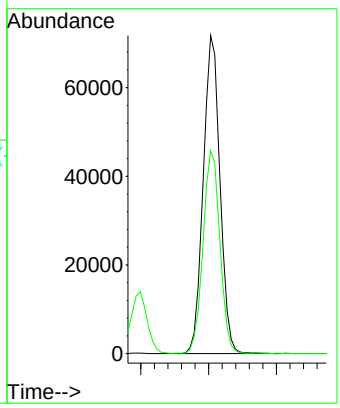
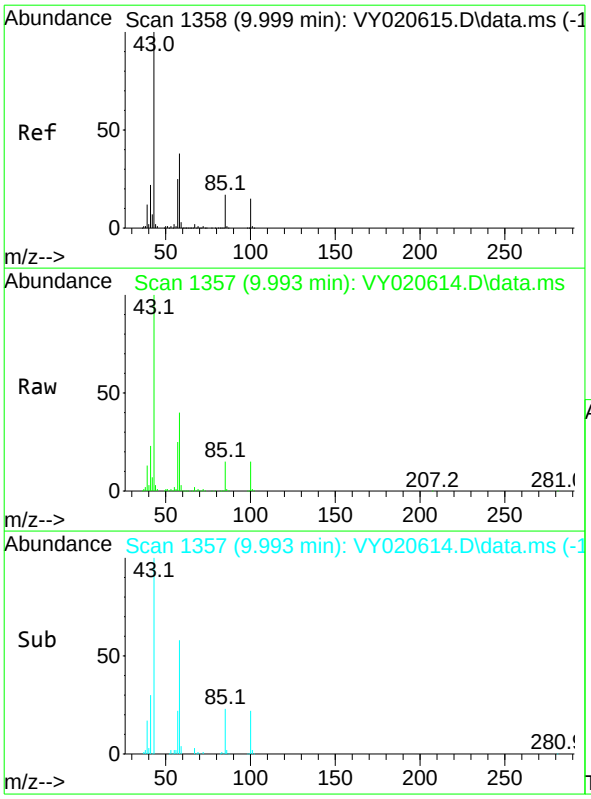



#50
Toluene-d8
Concen: 18.267 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 98 Resp: 122846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 52.1 | 78.1 |

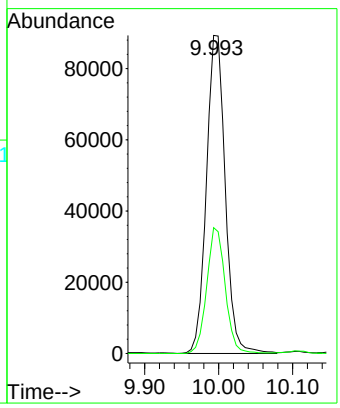





#51
4-Methyl-2-Pentanone
Concen: 95.918 ug/l
RT: 9.993 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 157955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.8 | 31.4 | 47.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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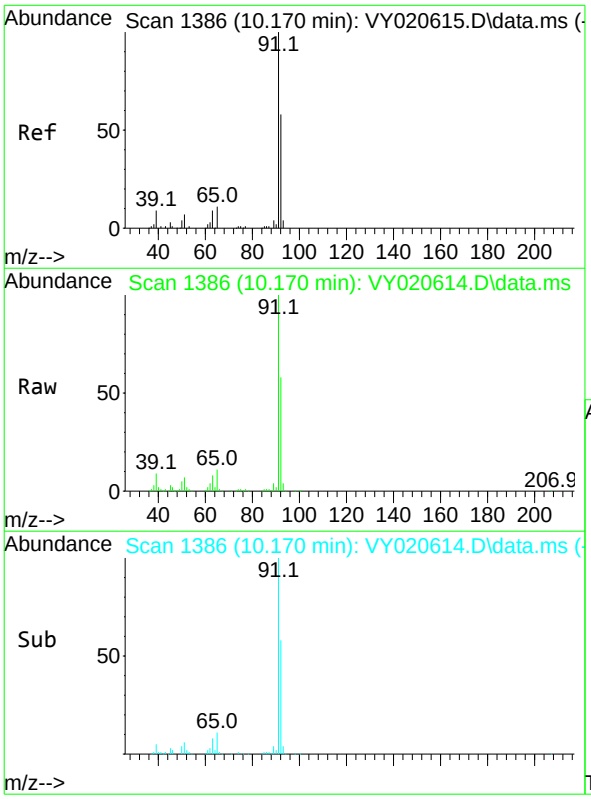
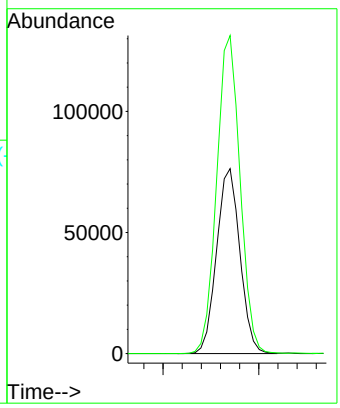
Supervised By :Semsettin Yesilyurt 12/18/2024

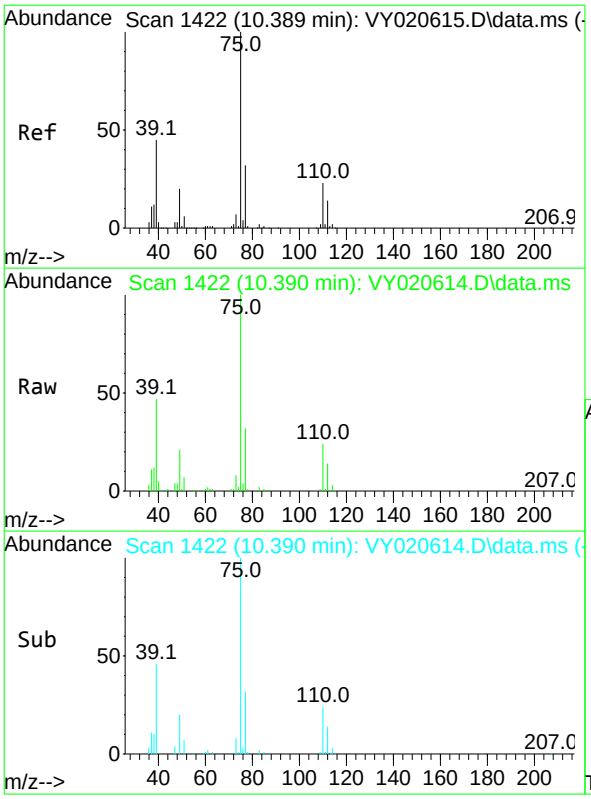



#52
Toluene
Concen: 20.245 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 92 Resp: 129196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.6 | 137.4 | 206.0 |

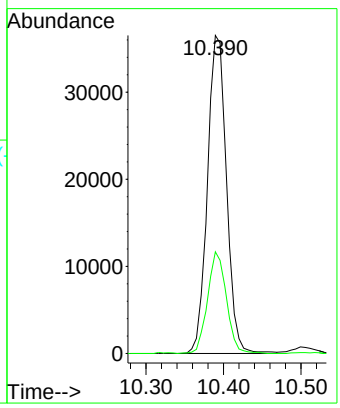





#53
t-1,3-Dichloropropene
Concen: 19.543 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 75 Resp: 62391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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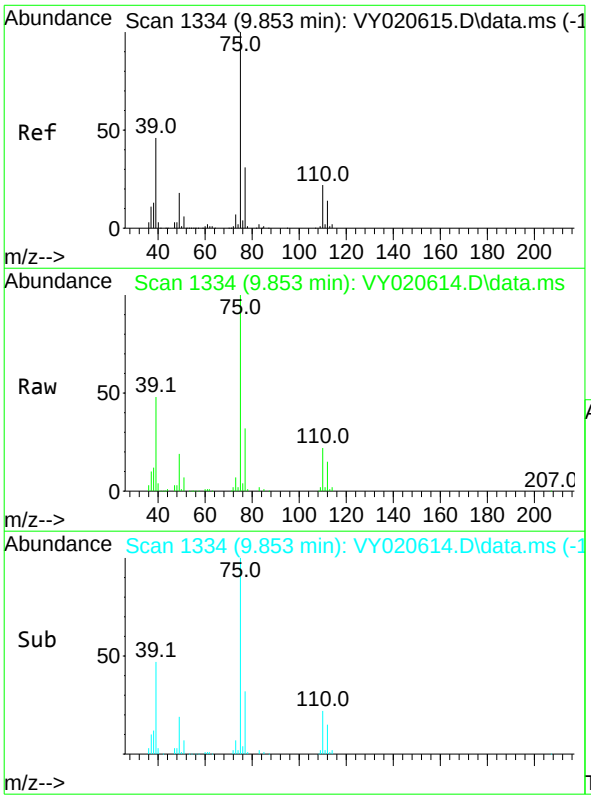
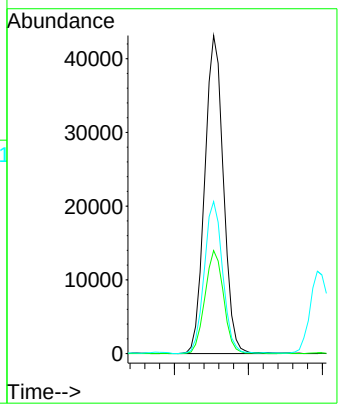
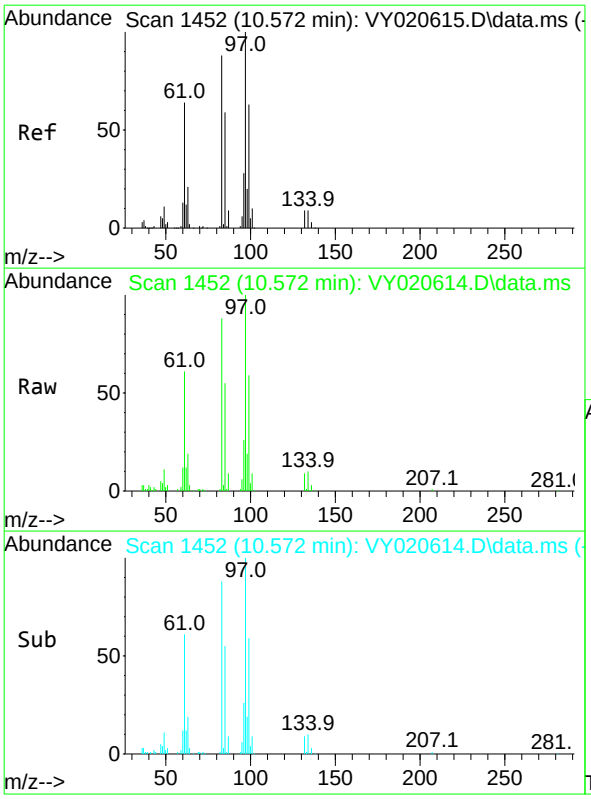



#54
cis-1,3-Dichloropropene
Concen: 19.996 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 75 Resp: 75647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 24.6 | 36.8 |
| 39 | 47.8 | 36.4 | 54.6 |

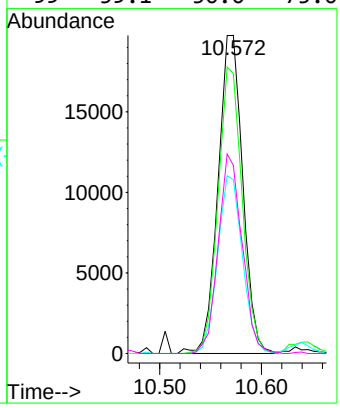





#55
1,1,2-Trichloroethane
Concen: 19.875 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 97 Resp: 33330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.0 | 70.4 | 105.6 |
| 85 | 54.7 | 47.2 | 70.8 |
| 99 | 59.1 | 50.0 | 75.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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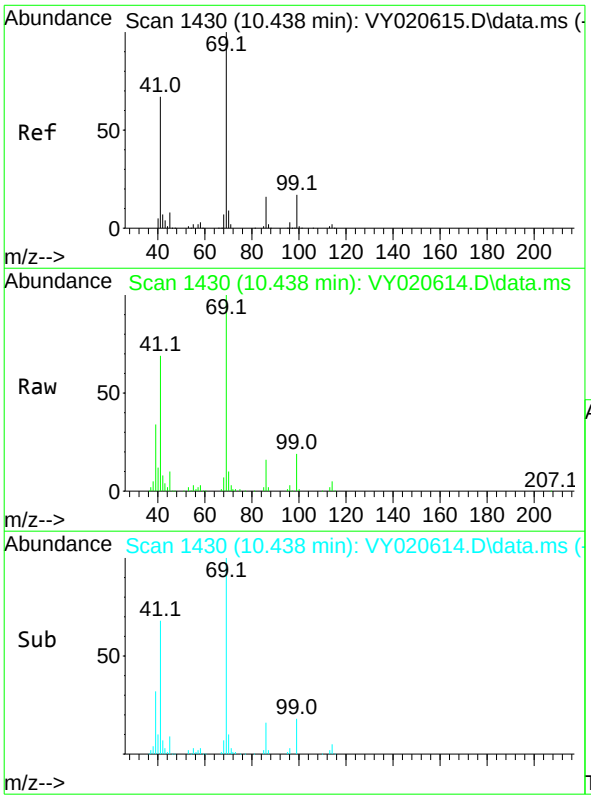
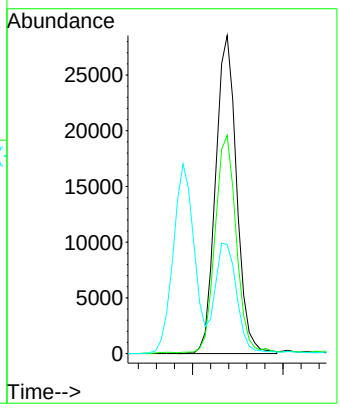
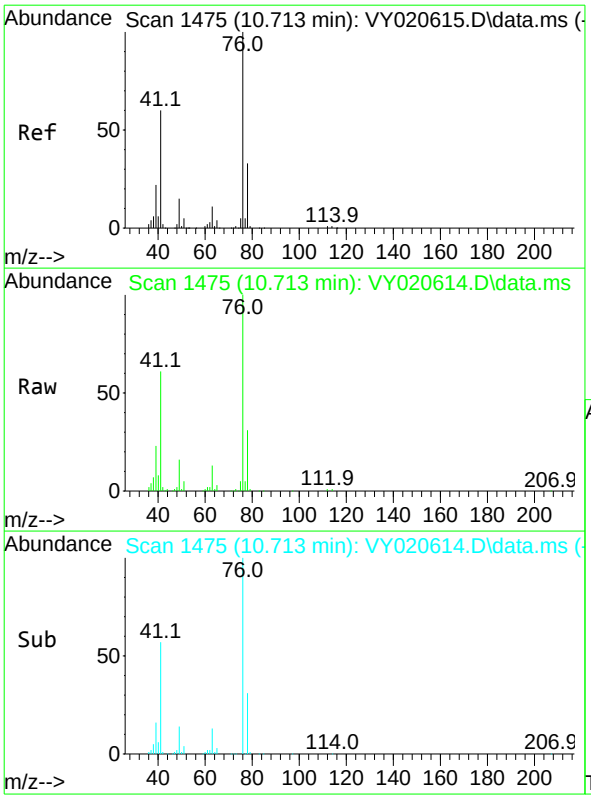



#56
Ethyl methacrylate
Concen: 18.930 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 69 Resp: 46055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 68.4 | 54.0 | 81.0 |
| 39 | 35.0 | 27.9 | 41.9 |

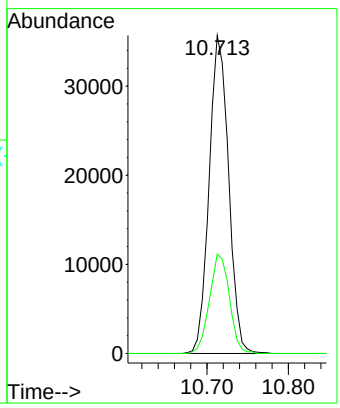





#57
1,3-Dichloropropane
Concen: 19.828 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 76 Resp: 59274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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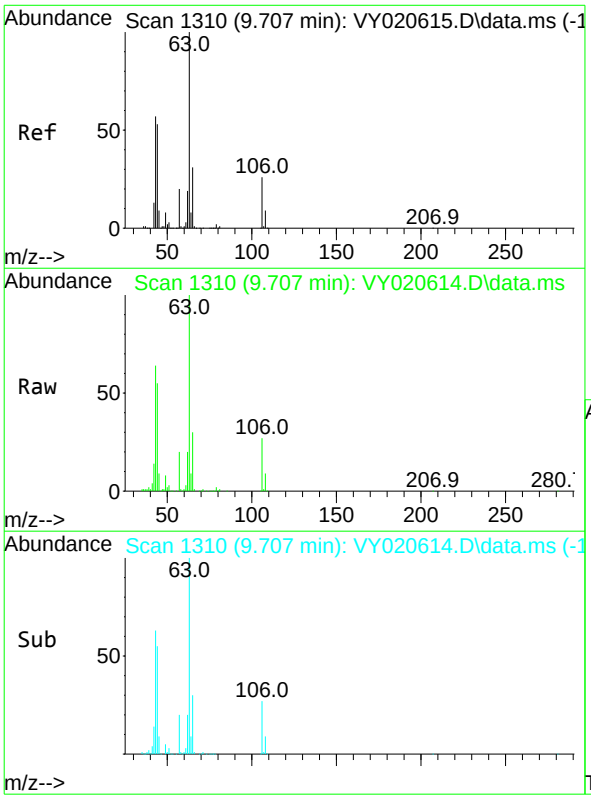
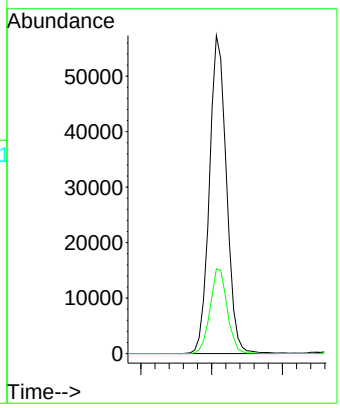
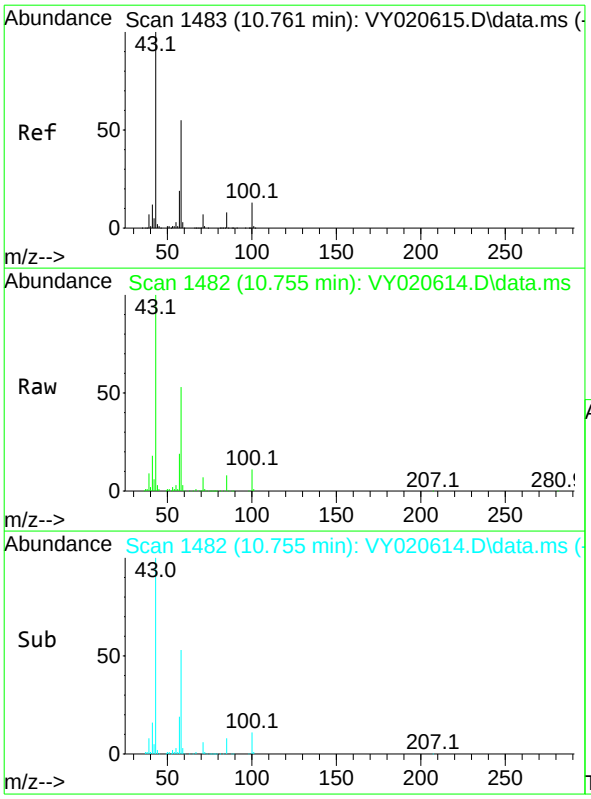



#58
2-Chloroethyl Vinyl ether
Concen: 93.804 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 63 Resp: 96023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.7 | 21.5 | 32.3 |






#59
2-Hexanone
Concen: 94.224 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 99623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.6 | 27.2 | 81.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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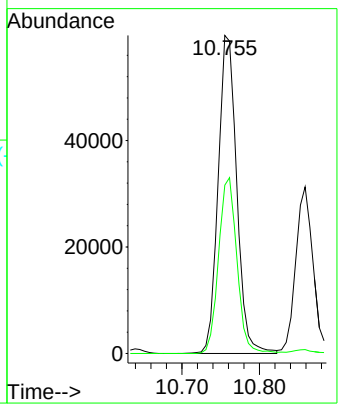
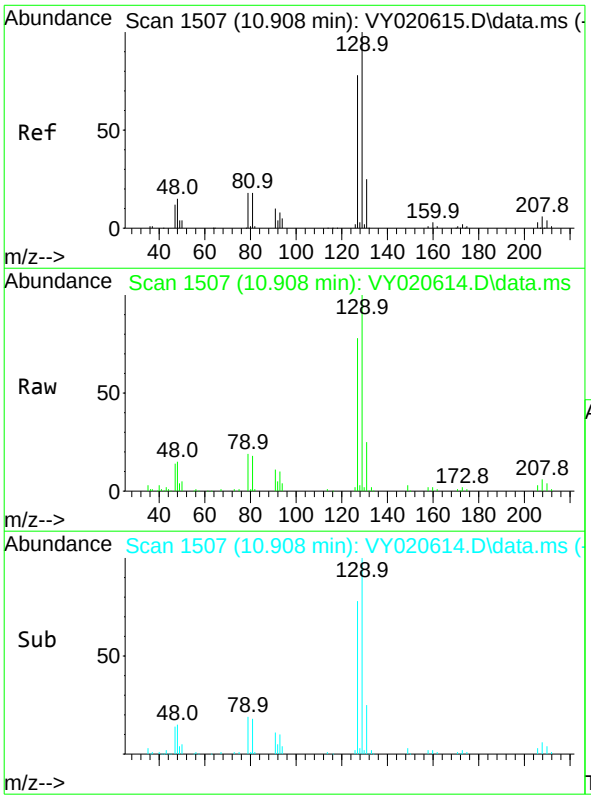
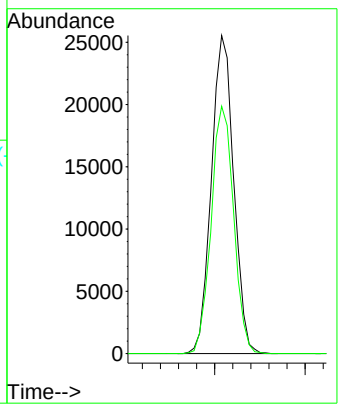


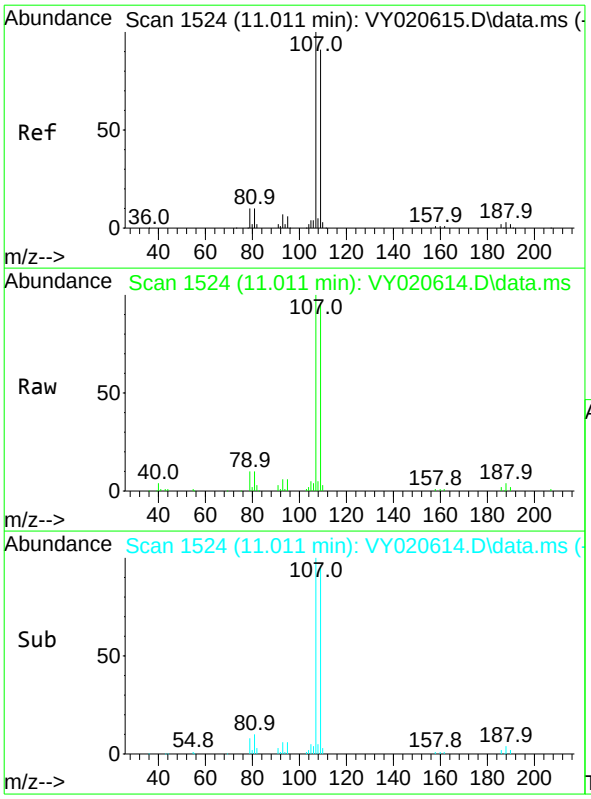




#60
Dibromochloromethane
Concen: 19.541 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:129 Resp: 43825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.2 | 38.1 | 114.3 |

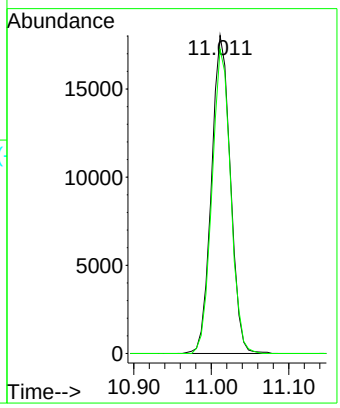





#61
1,2-Dibromoethane
Concen: 19.630 ug/l
RT: 11.011 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:107 Resp: 30621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.3 | 75.4 | 113.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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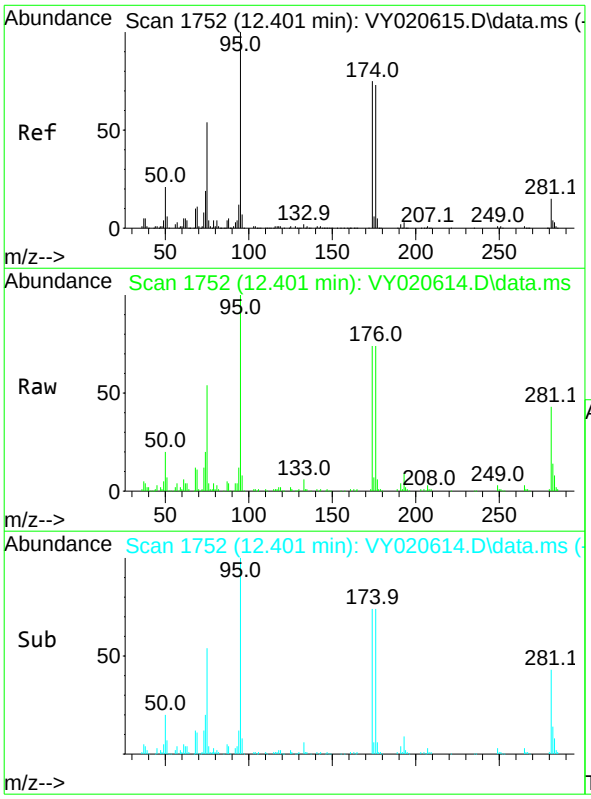
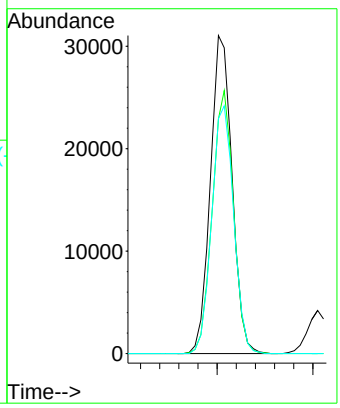
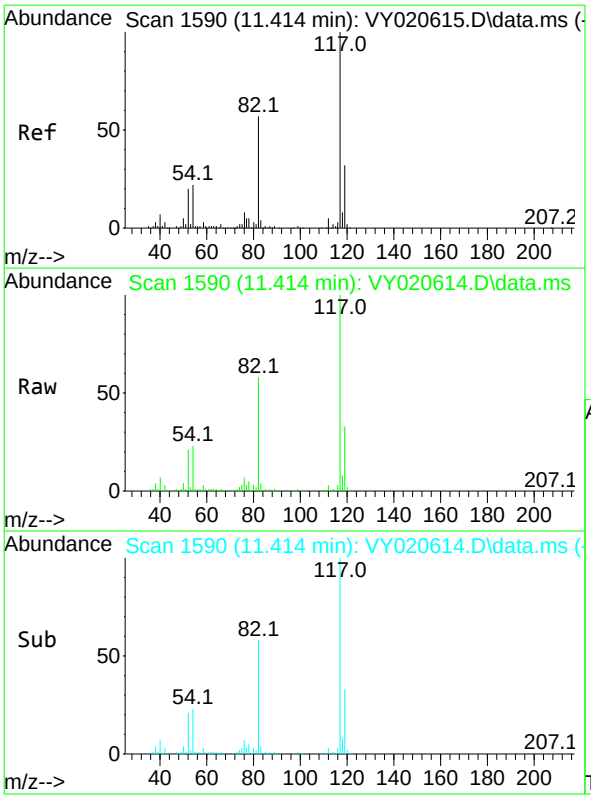



#62
4-Bromofluorobenzene
Concen: 18.552 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 95 Resp: 48801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.8 | 0.0 | 161.8 |
| 176 | 78.7 | 0.0 | 156.6 |

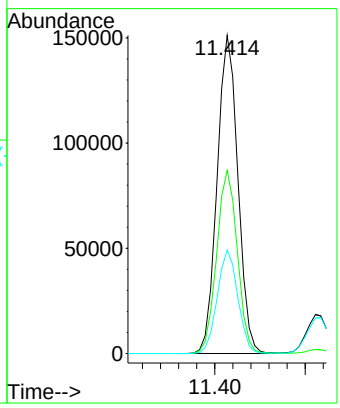





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:117 Resp: 241222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.5 | 45.8 | 68.6 |
| 119 | 32.5 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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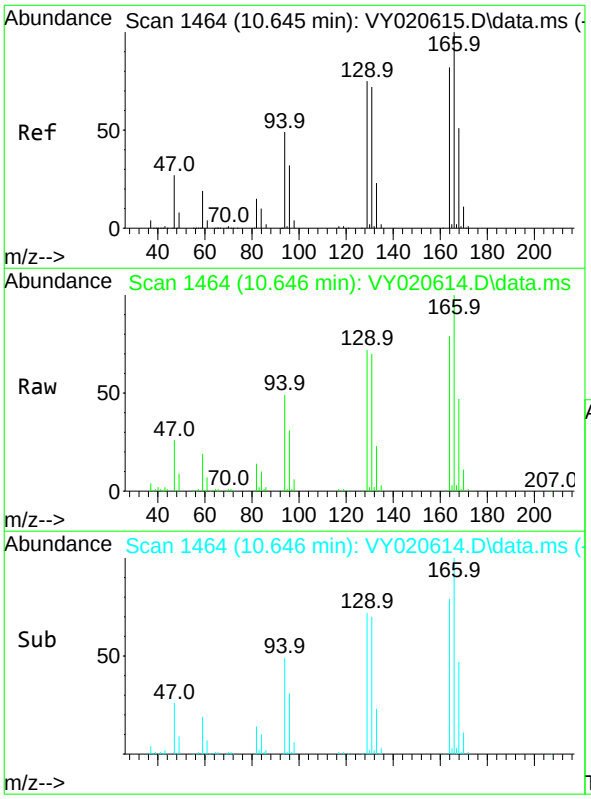
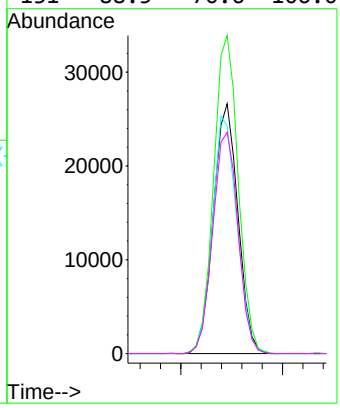
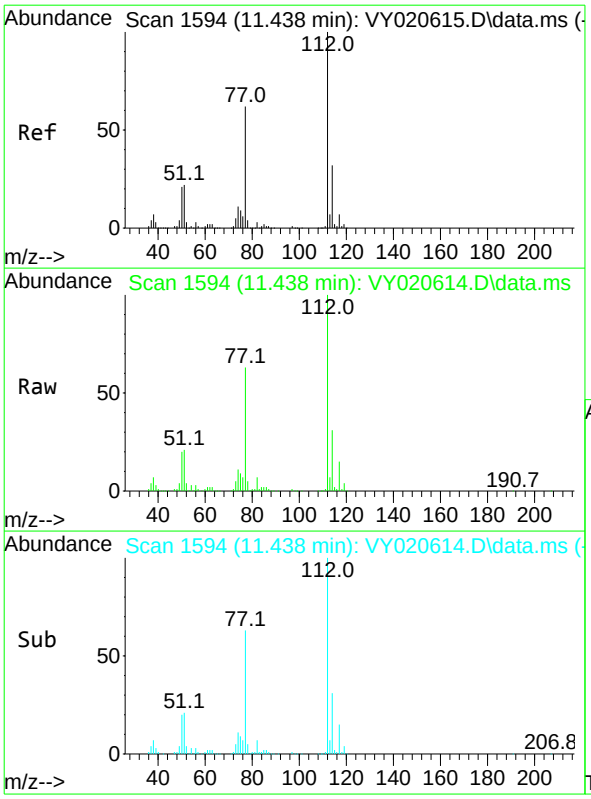



#64
Tetrachloroethene
Concen: 19.716 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:164 Resp: 44735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.3 | 97.9 | 146.9 |
| 129 | 91.1 | 73.4 | 110.0 |
| 131 | 88.5 | 70.6 | 106.0 |

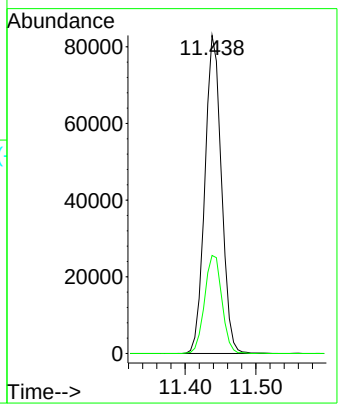





#65
Chlorobenzene
Concen: 19.987 ug/l
RT: 11.438 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:112 Resp: 134807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.8 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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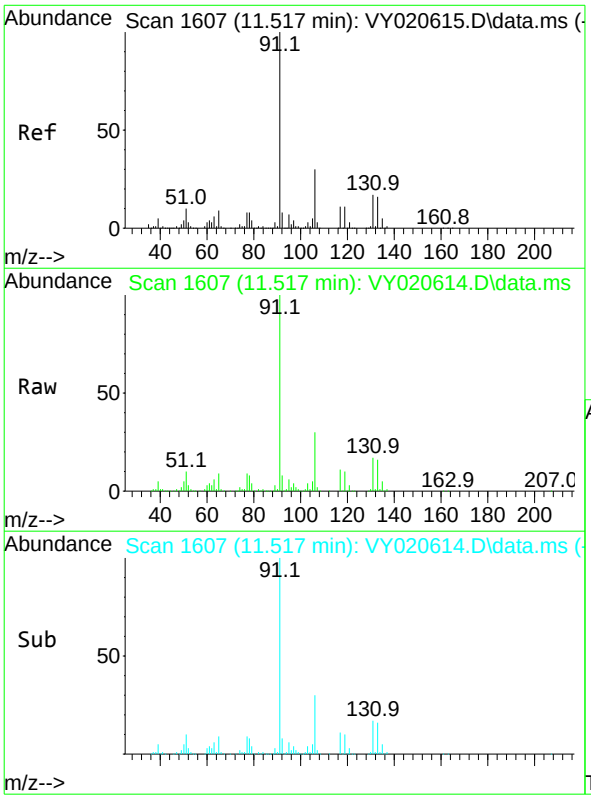
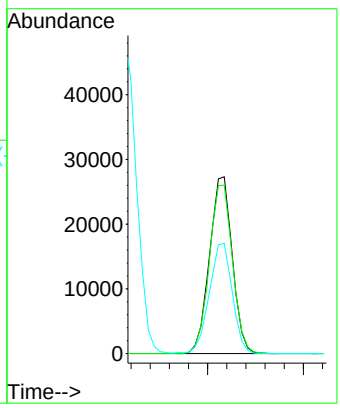
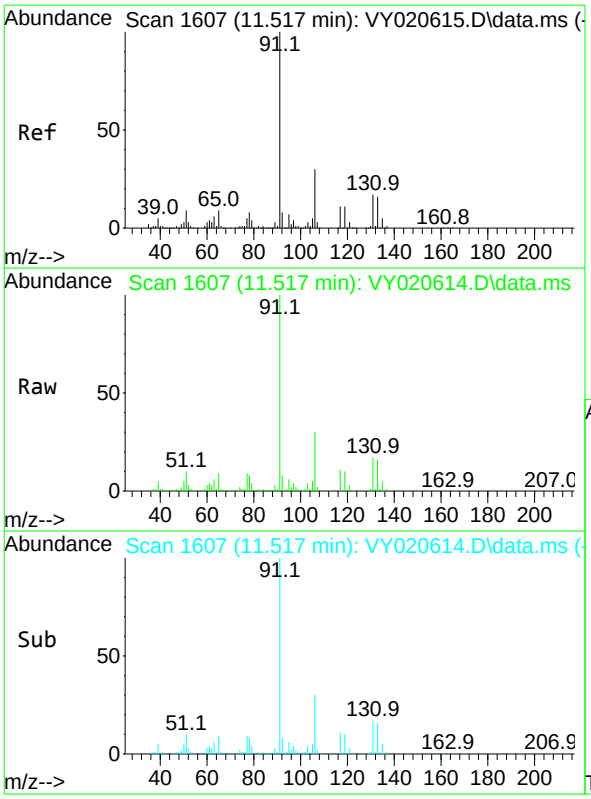



#66
1,1,1,2-Tetrachloroethane
Concen: 19.574 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:131 Resp: 45146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.8 | 46.8 | 140.3 |
| 119 | 63.1 | 31.8 | 95.3 |

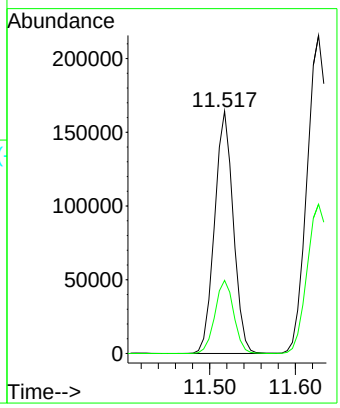





#67
Ethyl Benzene
Concen: 20.027 ug/l
RT: 11.517 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 91 Resp: 249208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.2 | 23.9 | 35.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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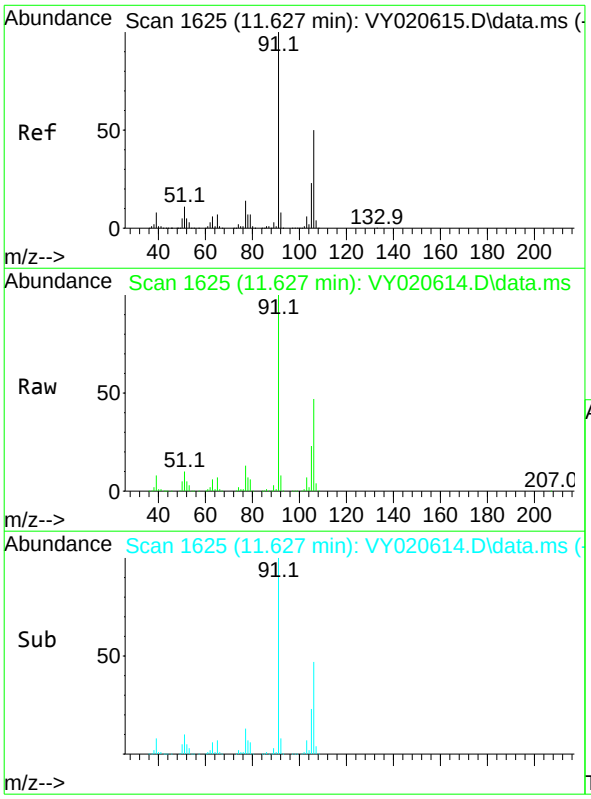
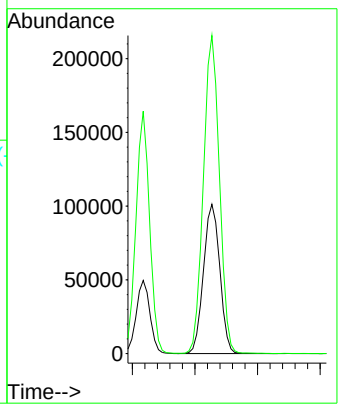
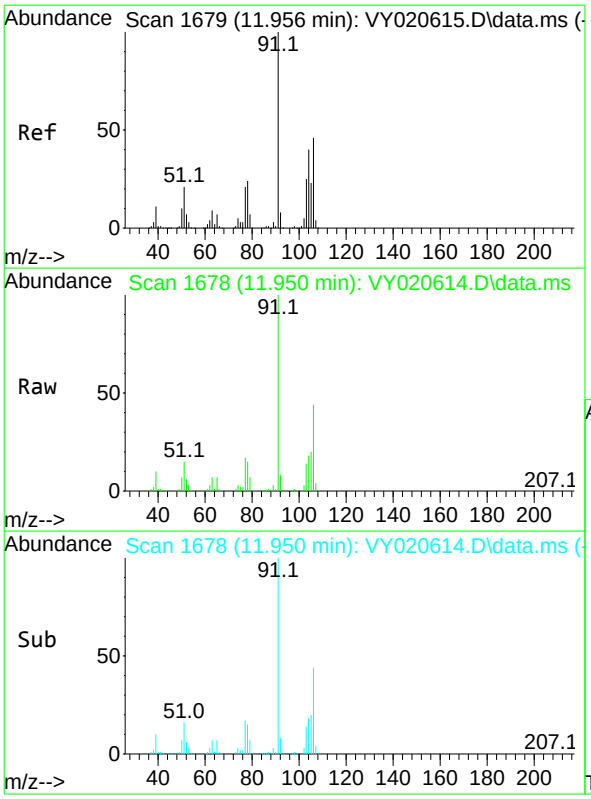



#68
m/p-Xylenes
Concen: 39.659 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:106 Resp: 183488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.9 | 165.0 | 247.4 |

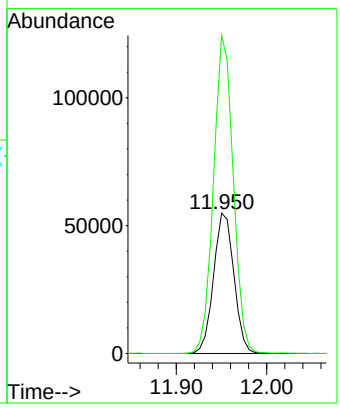





#69
o-Xylene
Concen: 19.932 ug/l
RT: 11.950 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:106 Resp: 86043

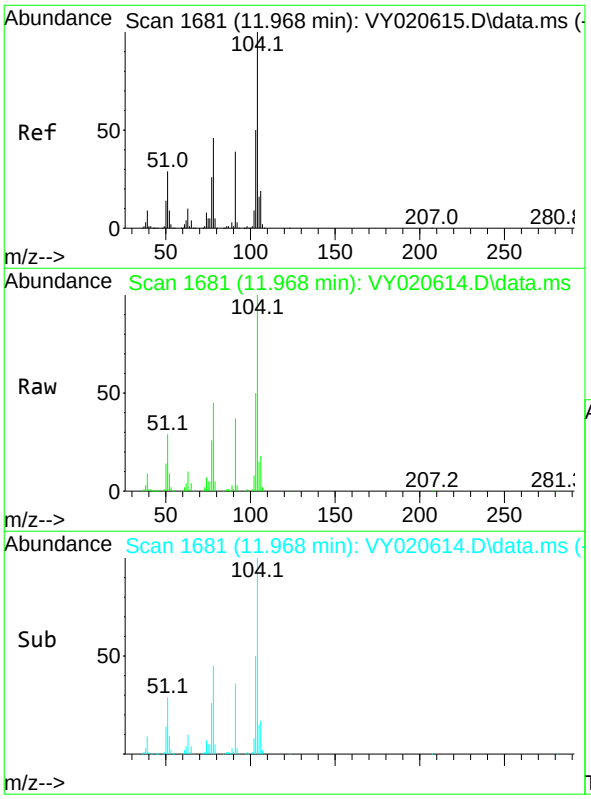
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.8 | 108.4 | 325.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

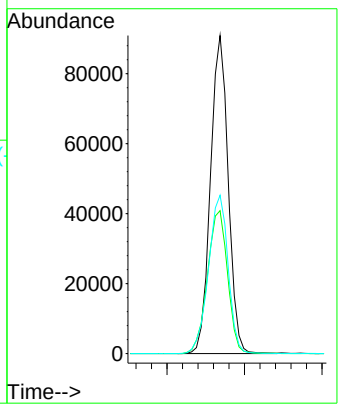
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

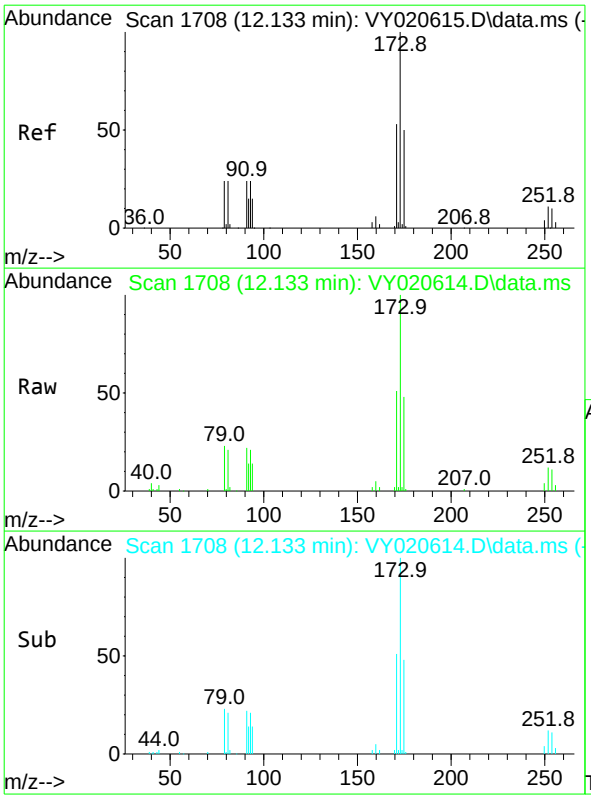



#70
Styrene
Concen: 20.012 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:104 Resp: 144333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.1 | 41.6 | 62.4 |
| 103 | 55.1 | 43.7 | 65.5 |

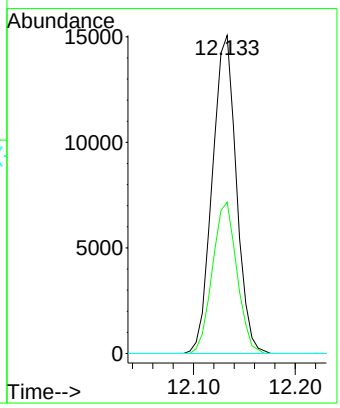





#71
Bromoform
Concen: 19.062 ug/l
RT: 12.133 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:173 Resp: 24718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.4 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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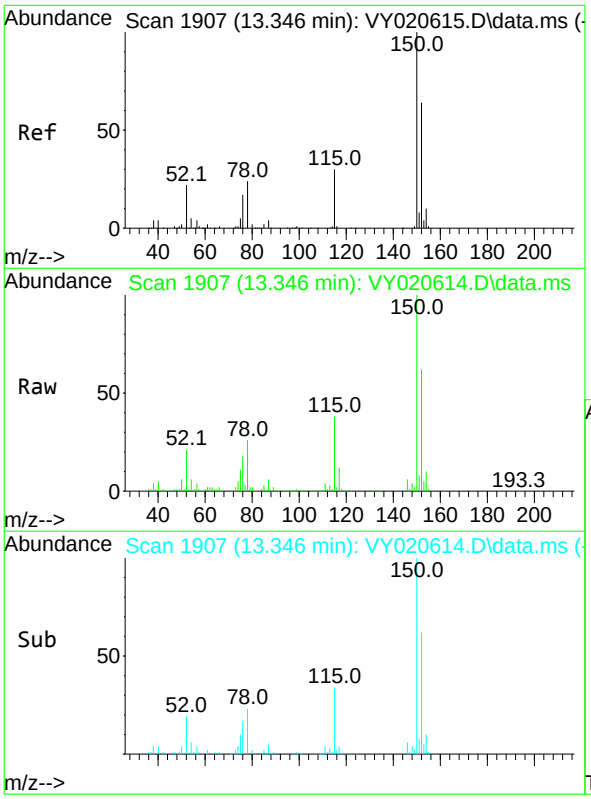
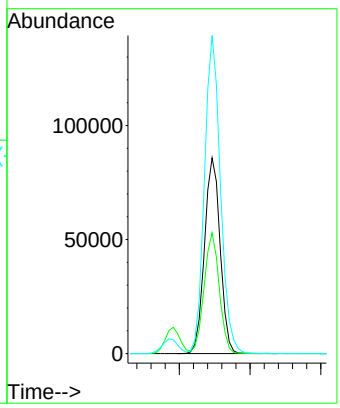
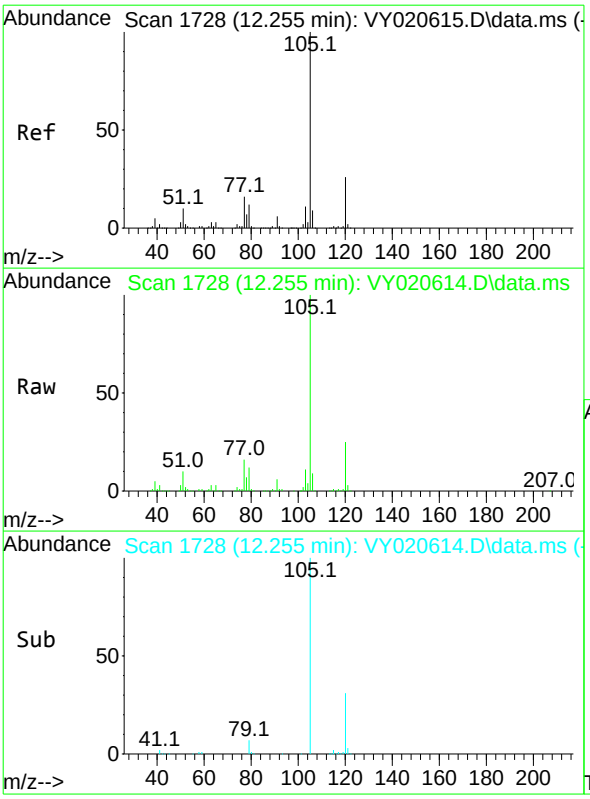



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:152 Resp: 131827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.6 | 30.2 | 90.6 |
| 150 | 165.8 | 0.0 | 355.4 |

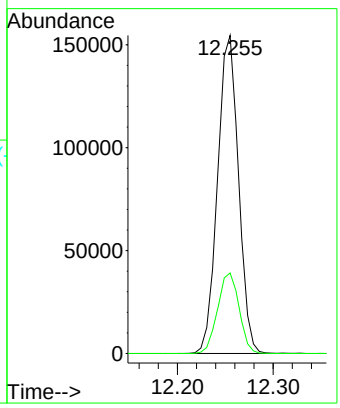





#73
Isopropylbenzene
Concen: 20.404 ug/l
RT: 12.255 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:105 Resp: 234727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.0 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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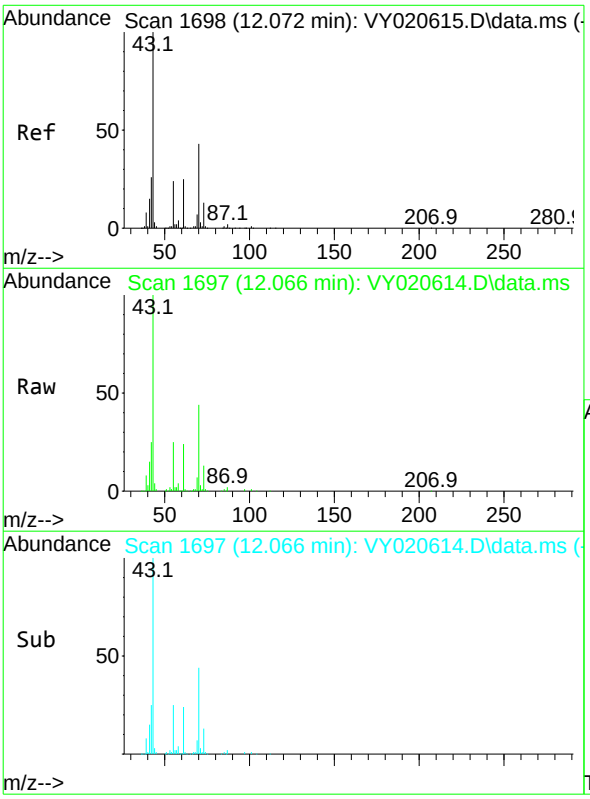
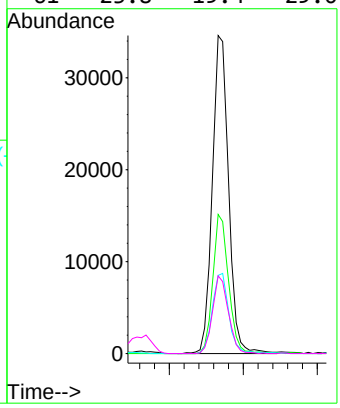
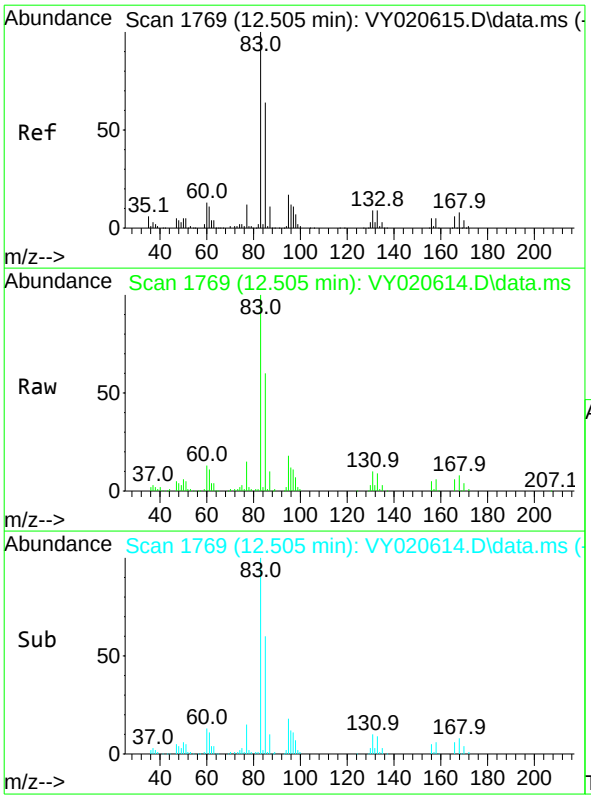



#74
N-amyl acetate
Concen: 19.574 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 52699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.5 | 34.2 | 51.2 |
| 55 | 25.8 | 19.6 | 29.4 |
| 61 | 23.8 | 19.4 | 29.0 |

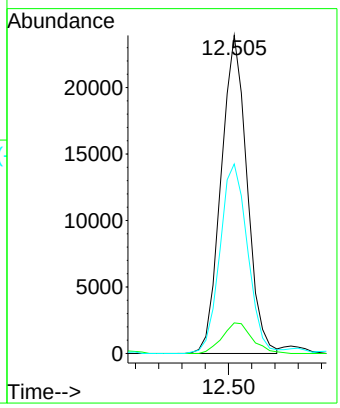





#75
1,1,2,2-Tetrachloroethane
Concen: 19.813 ug/l
RT: 12.505 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 83 Resp: 36998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.1 | 5.2 | 15.6 |
| 85 | 63.6 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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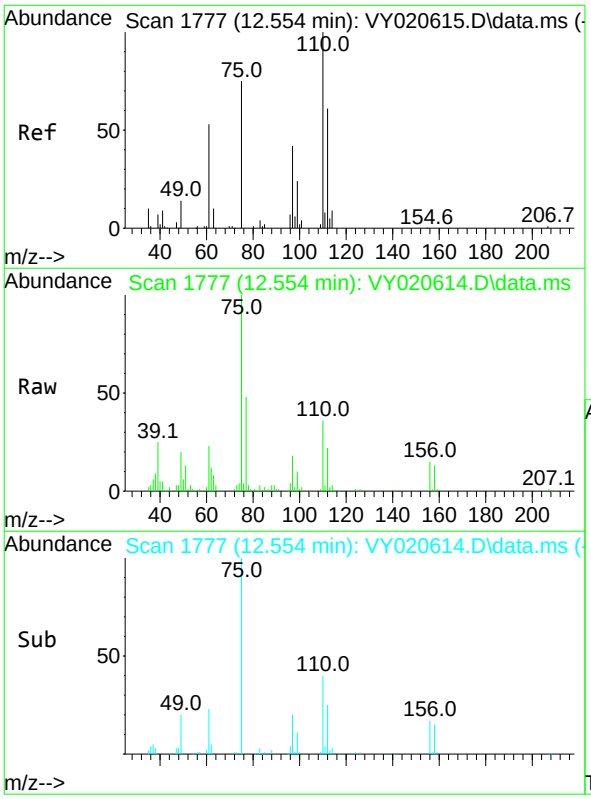
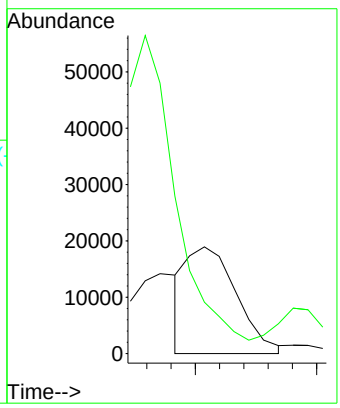
Supervised By :Semsettin Yesilyurt 12/18/2024

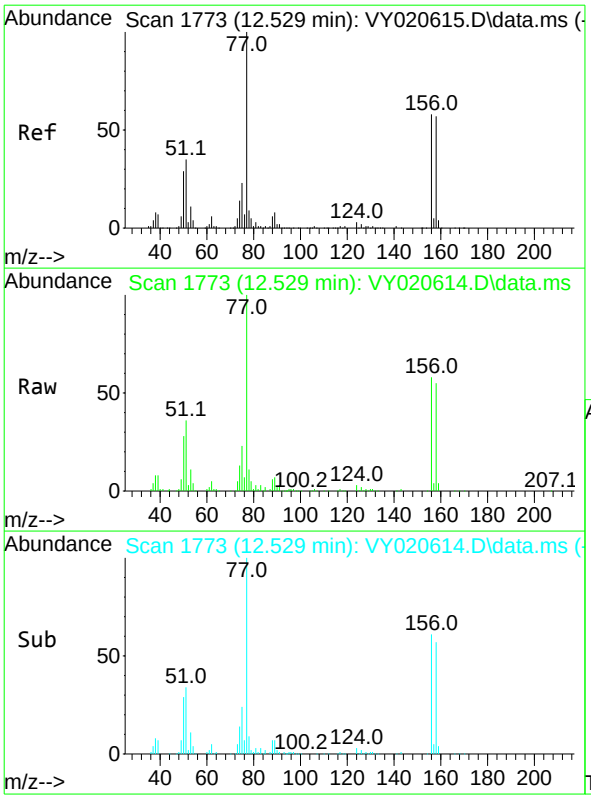



#76
1,2,3-Trichloropropane
Concen: 20.210 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 75 Resp: 27440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

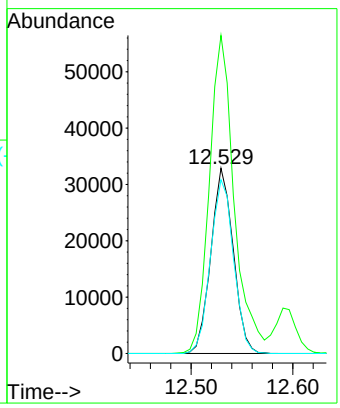





#77
Bromobenzene
Concen: 20.063 ug/l
RT: 12.529 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:156 Resp: 50276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 190.2 | 94.2 | 282.4 |
| 158 | 96.8 | 48.9 | 146.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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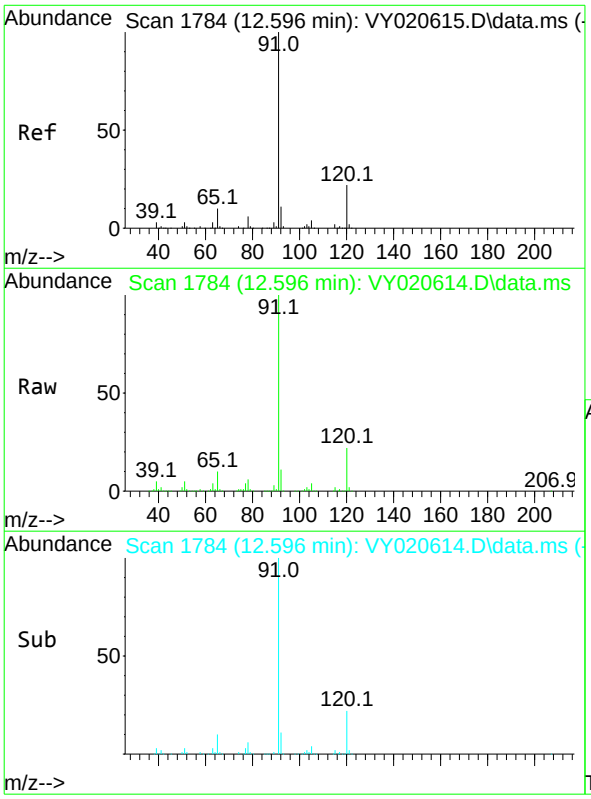
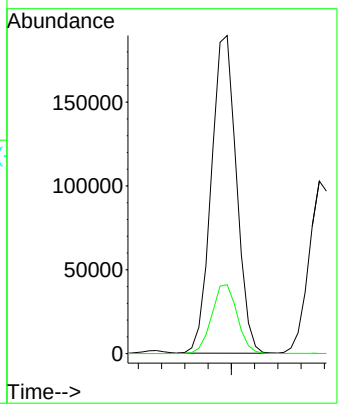
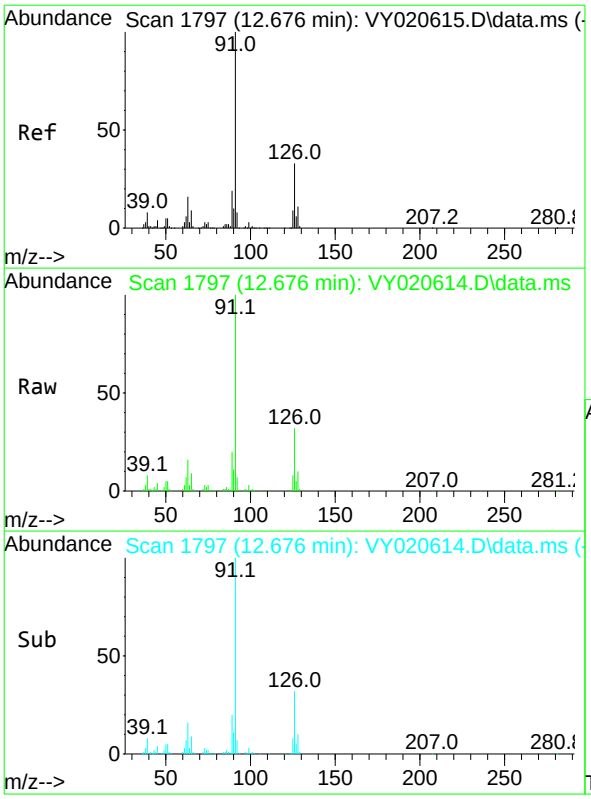



#78
n-propylbenzene
Concen: 20.534 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 91 Resp: 284604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.1 | 11.1 | 33.1 |

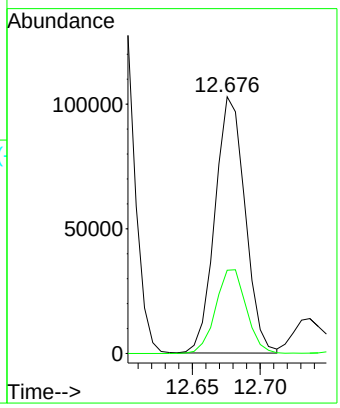





#79
2-Chlorotoluene
Concen: 20.369 ug/l
RT: 12.676 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 91 Resp: 158834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.2 | 16.6 | 49.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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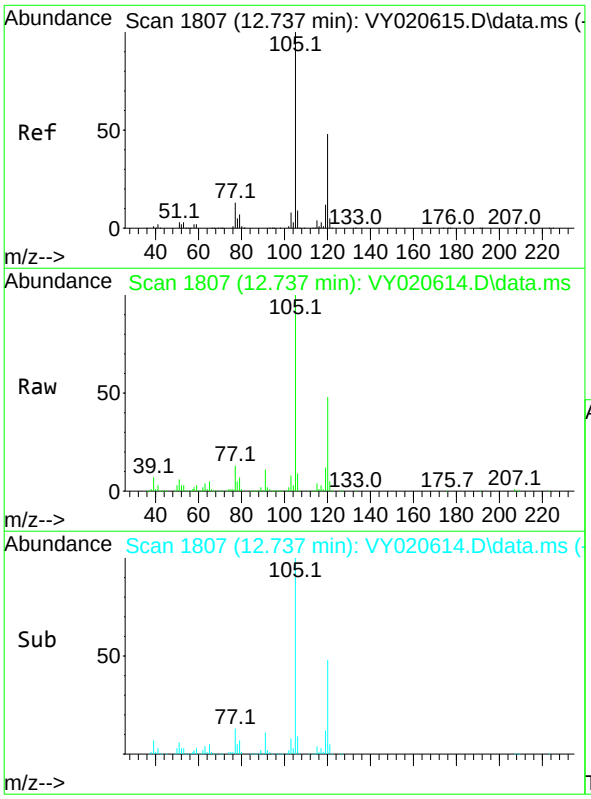
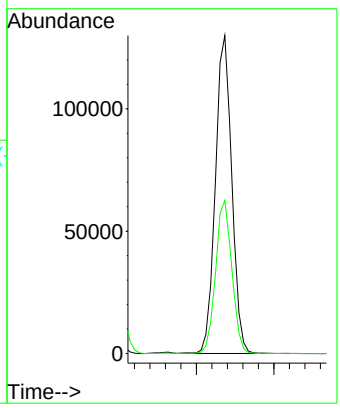
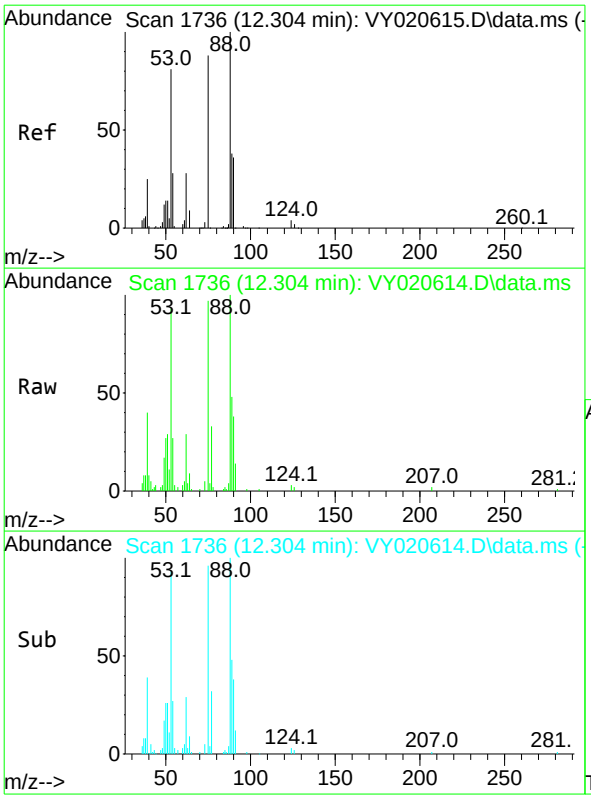



#80
1,3,5-Trimethylbenzene
Concen: 20.458 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:105 Resp: 190968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |

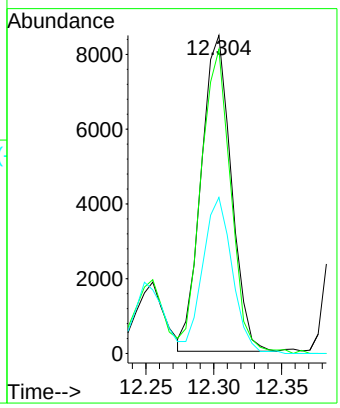





#81
trans-1,4-Dichloro-2-butene
Concen: 19.986 ug/l
RT: 12.304 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 75 Resp: 13039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.8 | 75.4 | 113.2 |
| 89 | 49.1 | 37.0 | 55.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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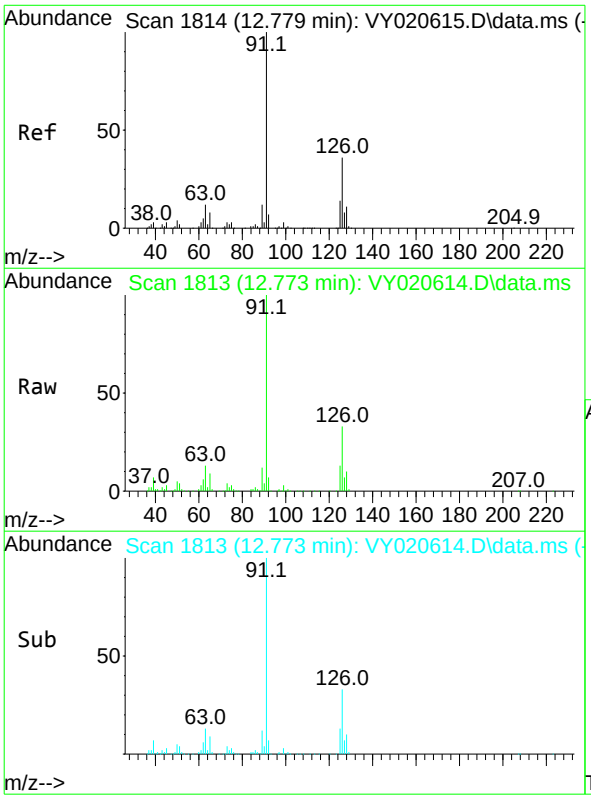
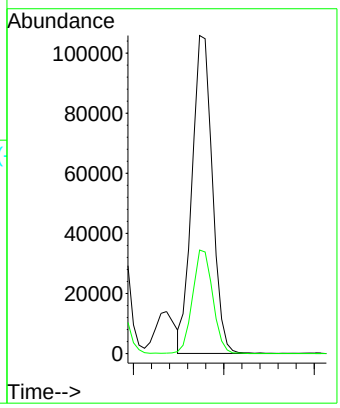
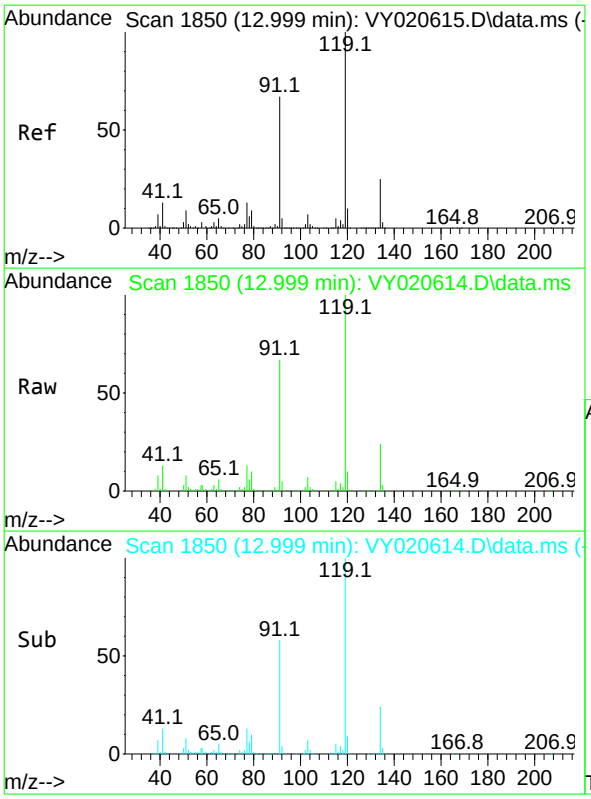



#82
4-Chlorotoluene
Concen: 20.358 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 91 Resp: 164692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.5 | 16.6 | 49.7 |

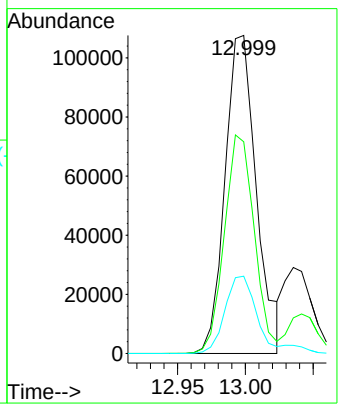





#83
tert-Butylbenzene
Concen: 20.507 ug/l
RT: 12.999 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:119 Resp: 173358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.7 | 32.9 | 98.6 |
| 134 | 25.9 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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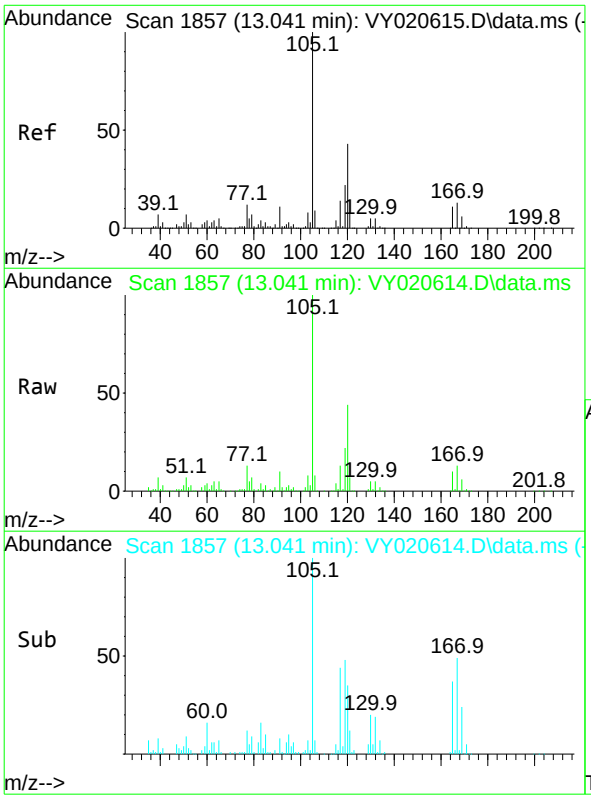
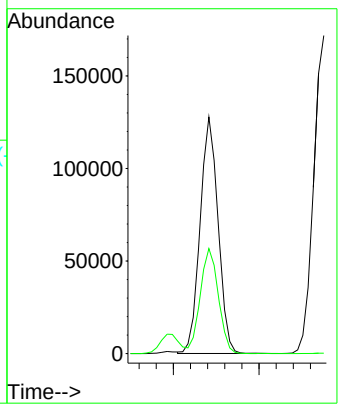
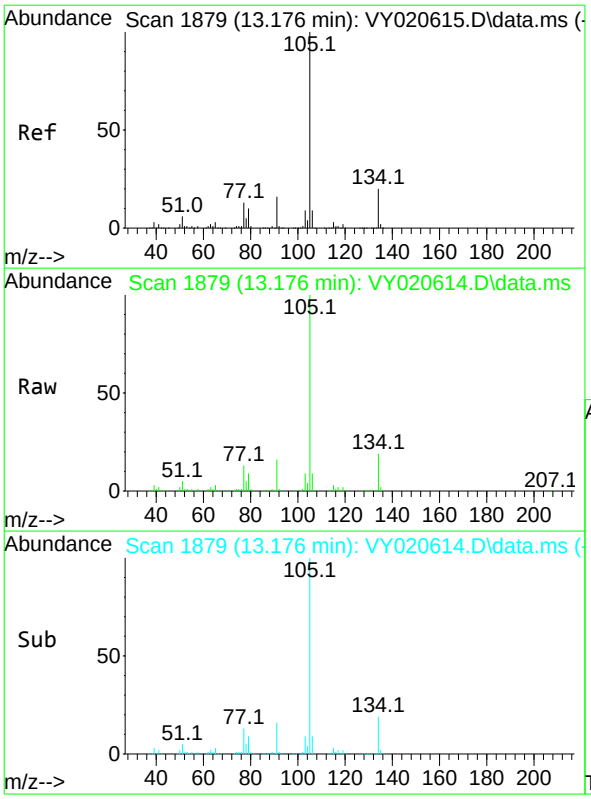



#84
1,2,4-Trimethylbenzene
Concen: 20.352 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:105 Resp: 186344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 21.8 | 65.4 |

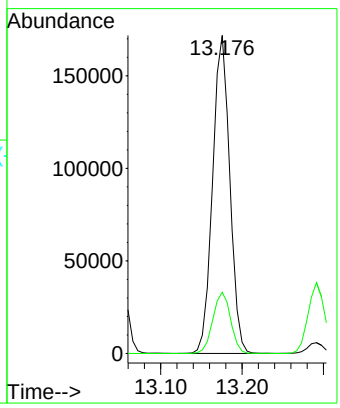





#85
sec-Butylbenzene
Concen: 20.492 ug/l
RT: 13.176 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:105 Resp: 251880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.0 | 30.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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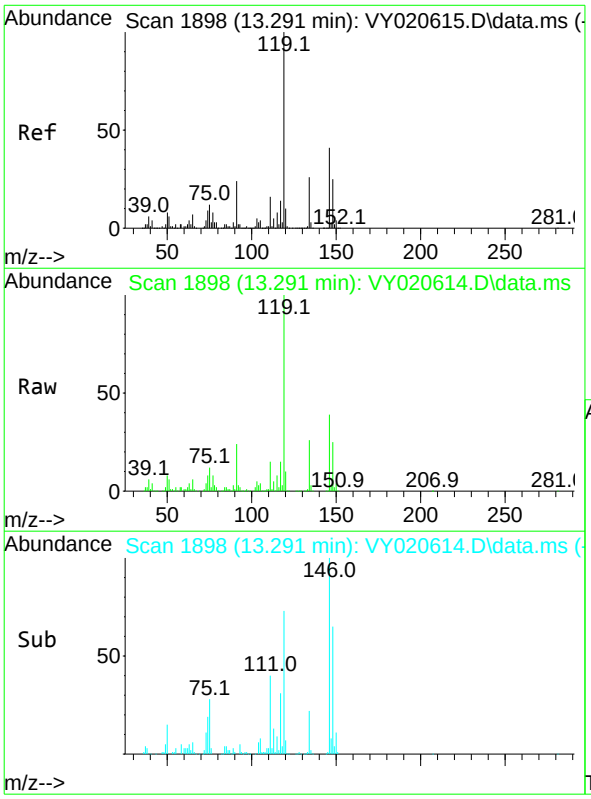
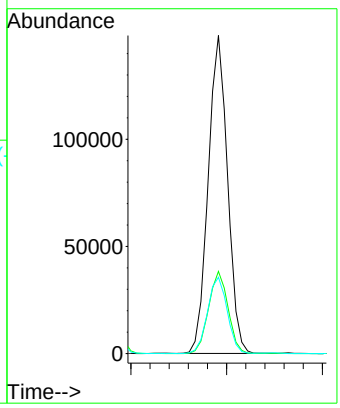
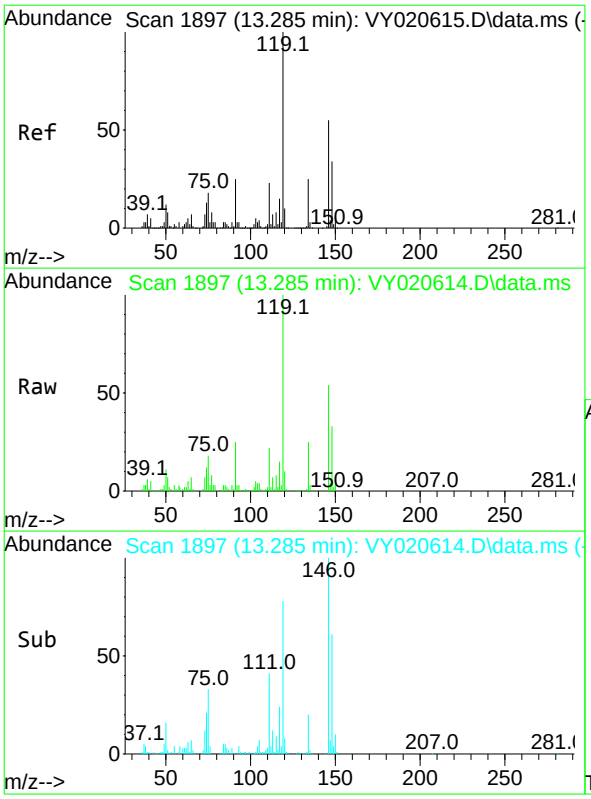



#86
p-Isopropyltoluene
Concen: 20.558 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:119 Resp: 208342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 12.9 | 38.6 |
| 91 | 24.5 | 12.1 | 36.3 |

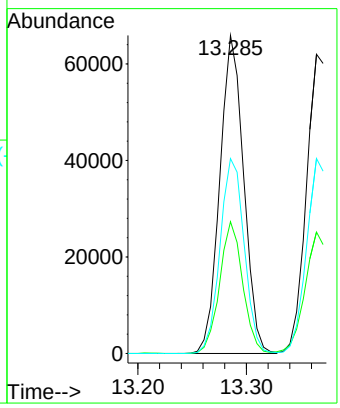





#87
1,3-Dichlorobenzene
Concen: 20.380 ug/l
RT: 13.285 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:146 Resp: 100815

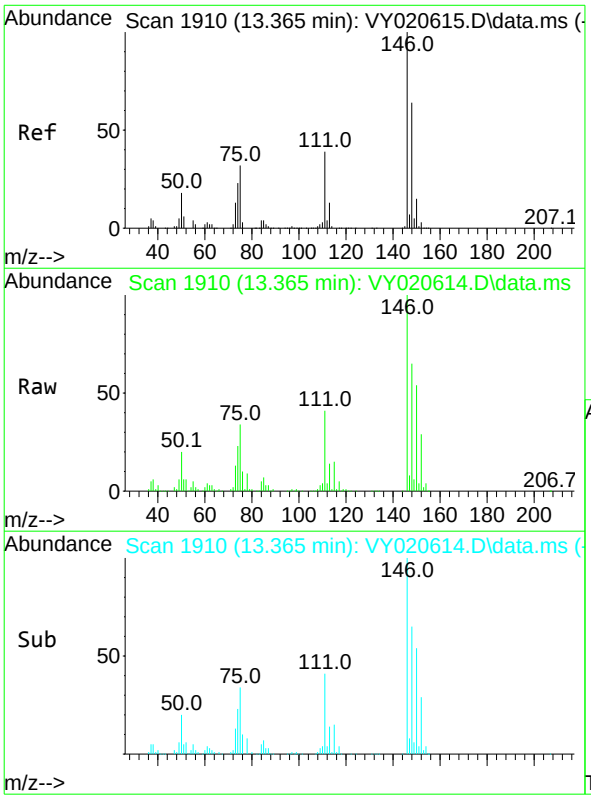
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.1 | 20.6 | 61.8 |
| 148 | 62.1 | 31.4 | 94.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

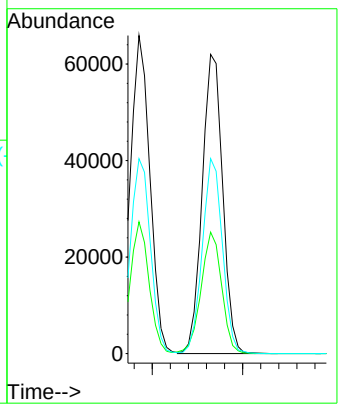
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

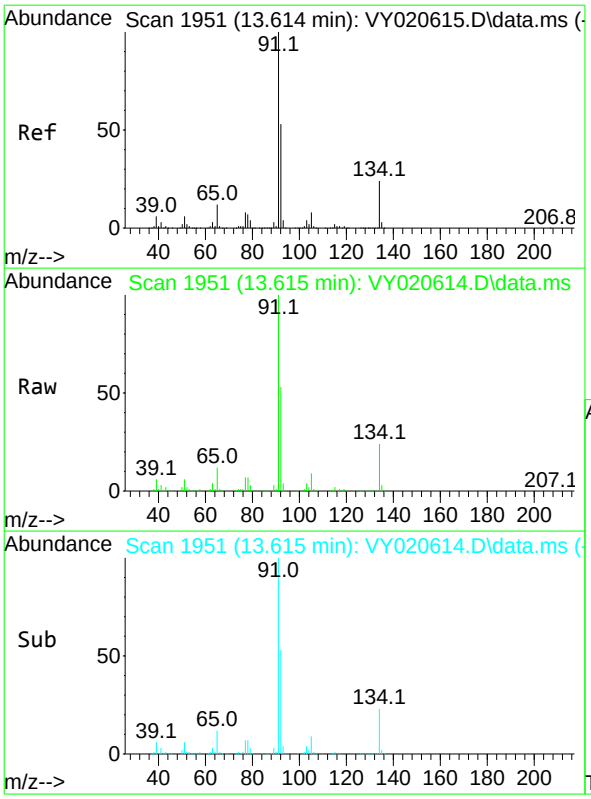



#88
1,4-Dichlorobenzene
Concen: 19.935 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:146 Resp: 97668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.9 | 19.6 | 58.7 |
| 148 | 63.9 | 31.9 | 95.5 |

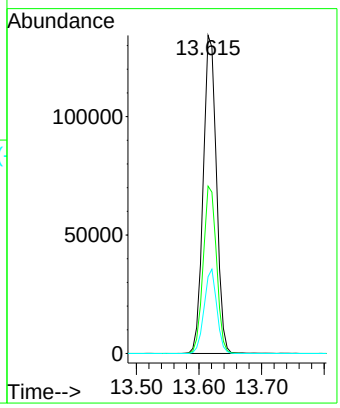





#89
n-Butylbenzene
Concen: 20.511 ug/l
RT: 13.615 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 91 Resp: 196997

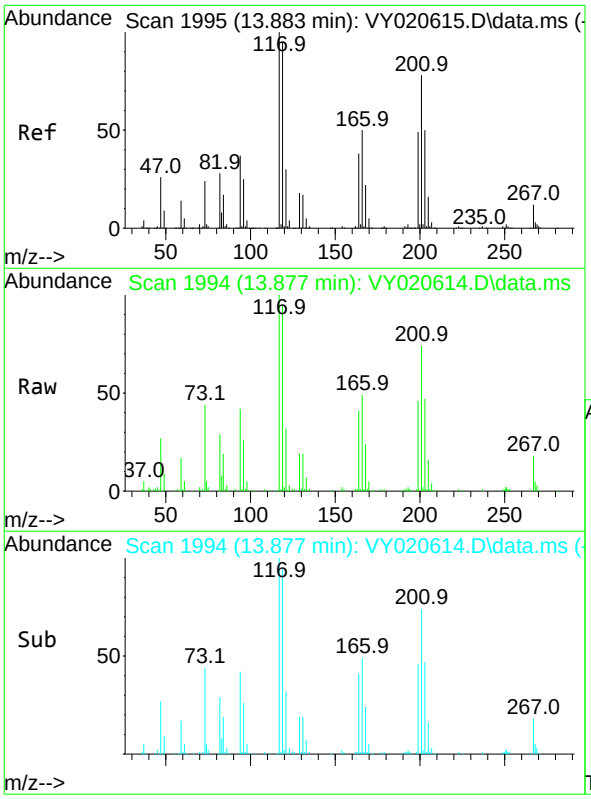
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.8 | 26.8 | 80.4 |
| 134 | 25.4 | 12.5 | 37.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

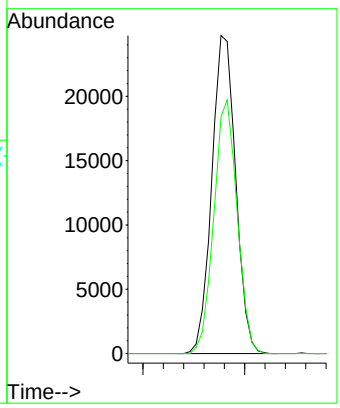
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

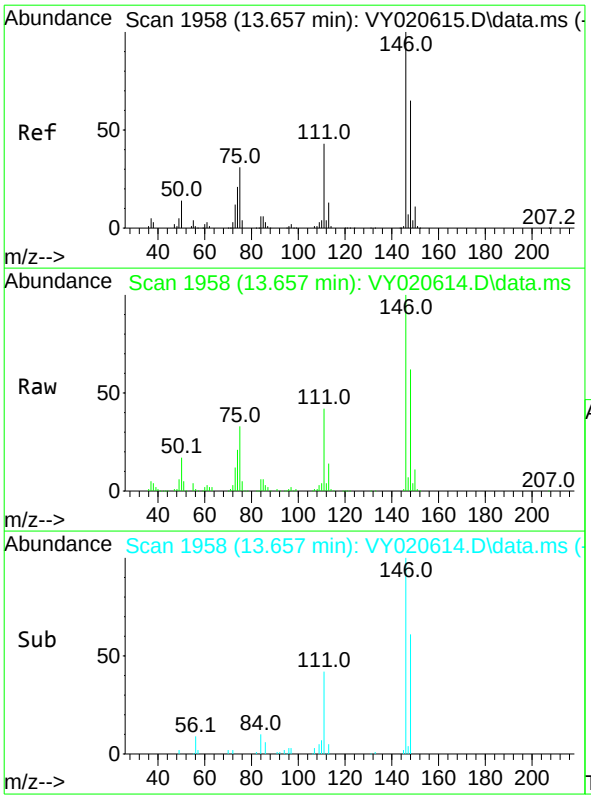



#90
Hexachloroethane
Concen: 20.057 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:117 Resp: 40281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.8 | 39.1 | 117.3 |

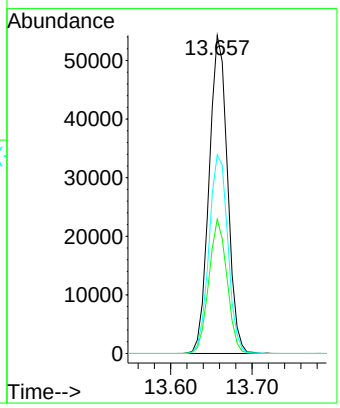





#91
1,2-Dichlorobenzene
Concen: 19.862 ug/l
RT: 13.657 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:146 Resp: 85128

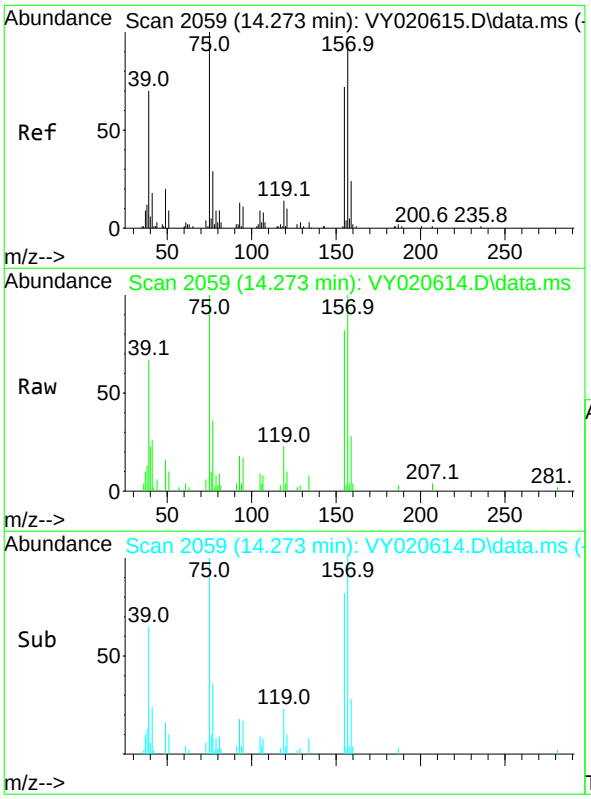
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.6 | 21.3 | 63.7 |
| 148 | 64.0 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

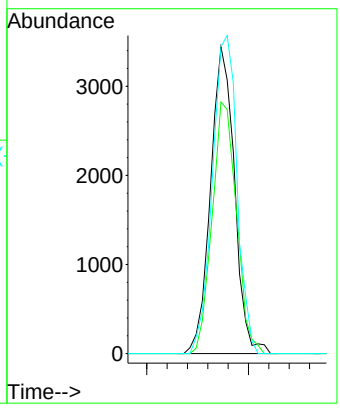
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

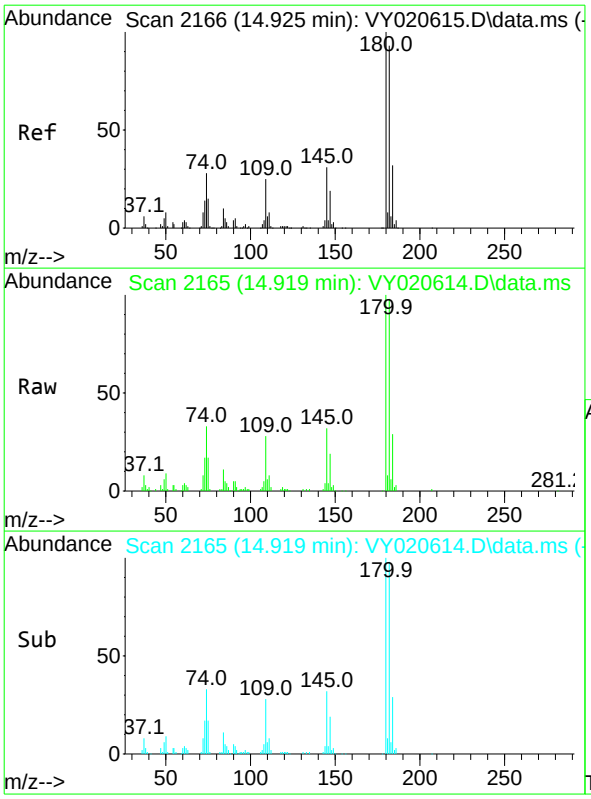



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.561 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 75 Resp: 5627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.2 | 41.1 | 123.3 |
| 157 | 106.5 | 52.9 | 158.8 |

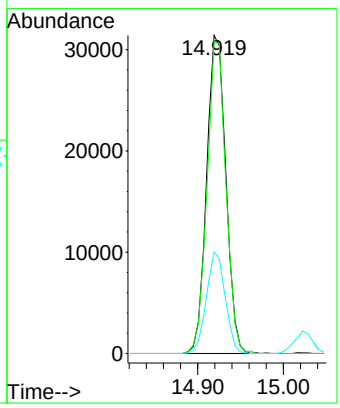





#93
1,2,4-Trichlorobenzene
Concen: 18.850 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:180 Resp: 48869

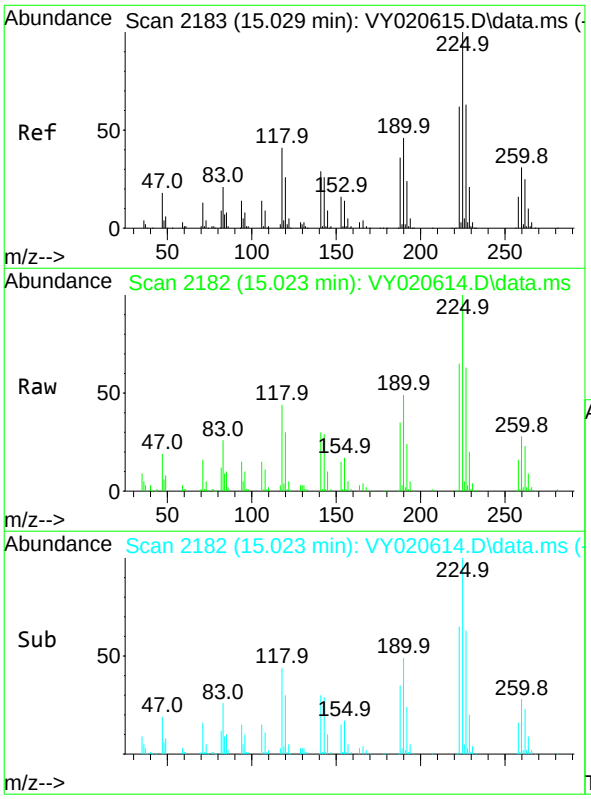
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.4 | 47.9 | 143.6 |
| 145 | 31.3 | 15.6 | 46.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

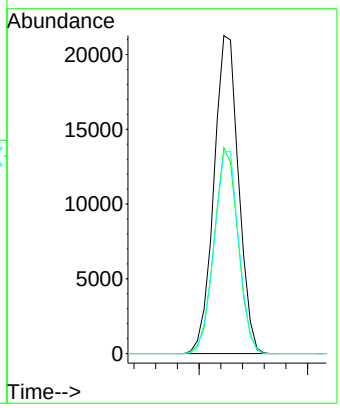
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

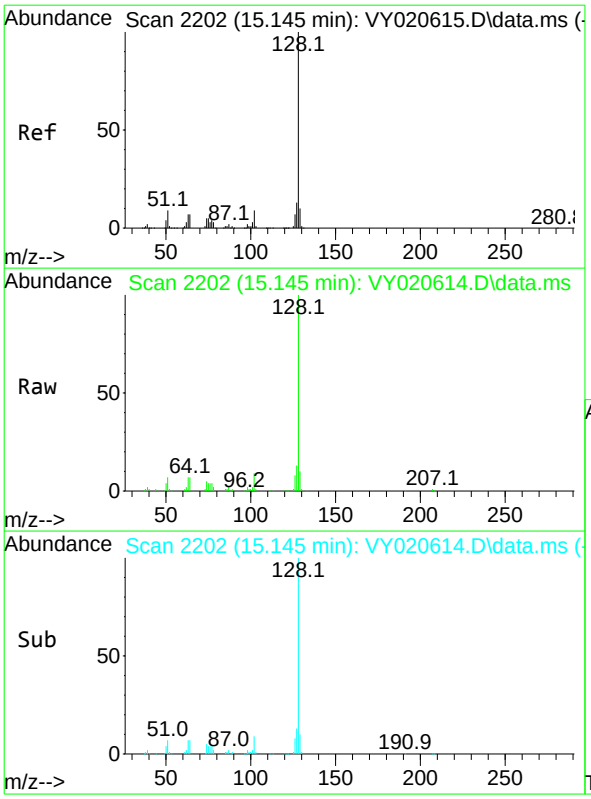



#94
Hexachlorobutadiene
Concen: 19.781 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:225 Resp: 33524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.8 | 95.3 |
| 227 | 63.5 | 32.2 | 96.6 |

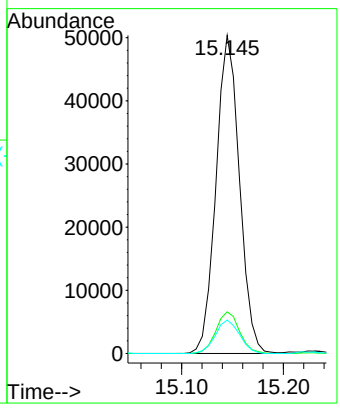





#95
Naphthalene
Concen: 18.126 ug/l
RT: 15.145 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:128 Resp: 80562

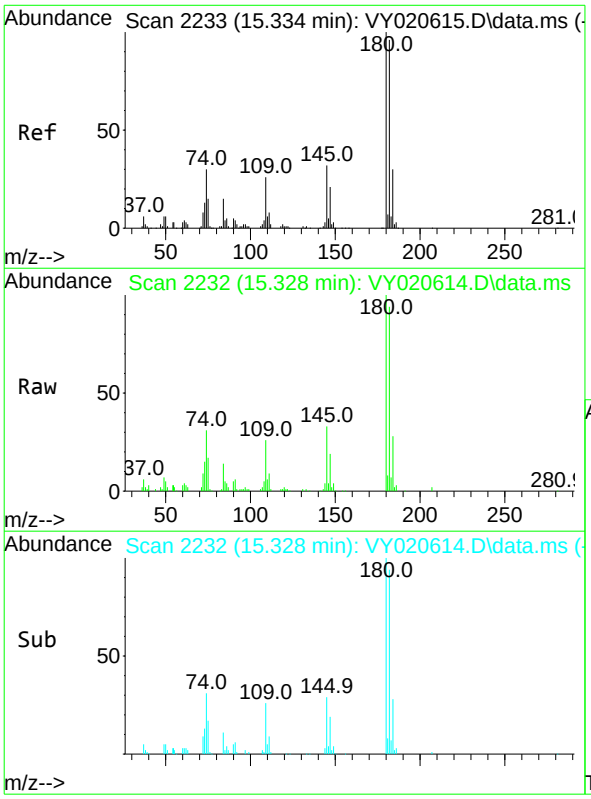
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.7 | 16.1 |
| 129 | 10.9 | 8.5 | 12.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

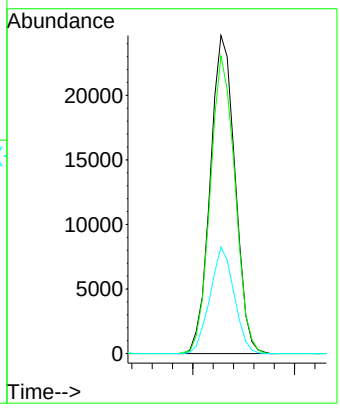
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024




#96
1,2,3-Trichlorobenzene
Concen: 19.031 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:180 Resp: 41686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.1 | 47.3 | 141.9 |
| 145 | 32.6 | 16.0 | 48.0 |



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 169292 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 263162 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 234325 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 130092 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 96289 | 51.933 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 103.860% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 94848 | 51.139 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 102.280% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 334601 | 51.543 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.080% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 126226 | 49.707 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 99.420% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 104493 | 49.416 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 72429 | 46.229 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 62750 | 43.031 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 38716 | 41.303 | ug/l | 100 |
| 6) Chloroethane | 2.738 | 64 | 35946 | 39.890 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.061 | 101 | 133990 | 43.913 | ug/l | 100 |
| 8) Diethyl Ether | 3.458 | 74 | 49218 | 45.993 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.817 | 101 | 102158 | 46.710 | ug/l | 100 |
| 10) Methyl Iodide | 4.006 | 142 | 117209 | 48.135 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 42756 | 214.068 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 99773 | 47.016 | ug/l | 100 |
| 13) Acrolein | 3.653 | 56 | 14576 | 166.258 | ug/l | 100 |
| 14) Allyl chloride | 4.384 | 41 | 173951 | 46.780 | ug/l | 100 |
| 15) Acrylonitrile | 5.055 | 53 | 130861 | 255.615 | ug/l | 100 |
| 16) Acetone | 3.866 | 43 | 83206 | 225.255 | ug/l | 100 |
| 17) Carbon Disulfide | 4.104 | 76 | 328309 | 47.529 | ug/l | 100 |
| 18) Methyl Acetate | 4.384 | 43 | 59224 | 46.948 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 281609 | 51.414 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 104472 | 45.319 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 120184 | 50.488 | ug/l | 100 |
| 22) Diisopropyl ether | 6.024 | 45 | 387073 | 51.282 | ug/l | 100 |
| 23) Vinyl Acetate | 5.963 | 43 | 1112368 | 260.208 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 223898 | 50.635 | ug/l | 100 |
| 25) 2-Butanone | 6.896 | 43 | 167158 | 242.593 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 200438 | 47.951 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 138280 | 50.490 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 83821 | 56.199 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 112230 | 258.011 | ug/l | 100 |
| 30) Chloroform | 7.420 | 83 | 233357 | 52.860 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 202782 | 47.962 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 202760 | 49.911 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 167520 | 49.533 | ug/l | 100 |
| 37) Ethyl Acetate | 6.981 | 43 | 78387 | 49.275 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 184345 | 49.267 | ug/l | 100 |
| 39) Methylcyclohexane | 9.109 | 83 | 219055 | 49.696 | ug/l | 100 |
| 40) Benzene | 8.079 | 78 | 489140 | 49.343 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 40529 | 48.191 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 131640 | 50.069 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 153226 | 50.877 | ug/l | | 100 |
| 44) Trichloroethene | 8.865 | 130 | 120552 | 49.491 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 114250 | 49.313 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 60782 | 49.642 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 166333 | 50.291 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 72602 | 50.709 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.231 | 88 | 14069 | 1001.939 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 393979 | 247.835 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 307082 | 49.846 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.389 | 75 | 158536 | 51.442 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 185696 | 50.849 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 79837 | 49.318 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.438 | 69 | 121030 | 51.535 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 146053 | 50.611 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 226061 | 228.767 | ug/l | | 100 |
| 59) 2-Hexanone | 10.761 | 43 | 261334 | 256.048 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 110597 | 51.085 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 75811 | 50.346 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.645 | 164 | 105939 | 48.065 | ug/l | | 100 |
| 65) Chlorobenzene | 11.438 | 112 | 322053 | 49.154 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 111060 | 49.571 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.517 | 91 | 598896 | 49.546 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 446771 | 99.408 | ug/l | | 100 |
| 69) o-Xylene | 11.956 | 106 | 210499 | 50.198 | ug/l | | 100 |
| 70) Styrene | 11.968 | 104 | 351858 | 50.222 | ug/l | | 100 |
| 71) Bromoform | 12.133 | 173 | 63198 | 50.171 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 566646 | 49.914 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 138830 | 52.254 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 92349 | 50.115 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 67873m | 50.656 | ug/l | | |
| 77) Bromobenzene | 12.529 | 156 | 123256 | 49.842 | ug/l | | 100 |
| 78) n-propylbenzene | 12.596 | 91 | 687319 | 50.251 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 382511 | 49.707 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 463155 | 50.279 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 33360 | 51.816 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 397958 | 49.848 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 418182 | 50.127 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 459974 | 50.907 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 610142 | 50.301 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 509445 | 50.941 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 242502 | 49.677 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 238266 | 49.281 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.614 | 91 | 487742 | 51.461 | ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 99360 | 50.134 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 208977 | 49.409 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 14740 | 49.268 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 131852 | 51.538 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 85490 | 51.117 | ug/l | | 100 |
| 95) Naphthalene | 15.145 | 128 | 229979 | 52.434 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 112349 | 51.976 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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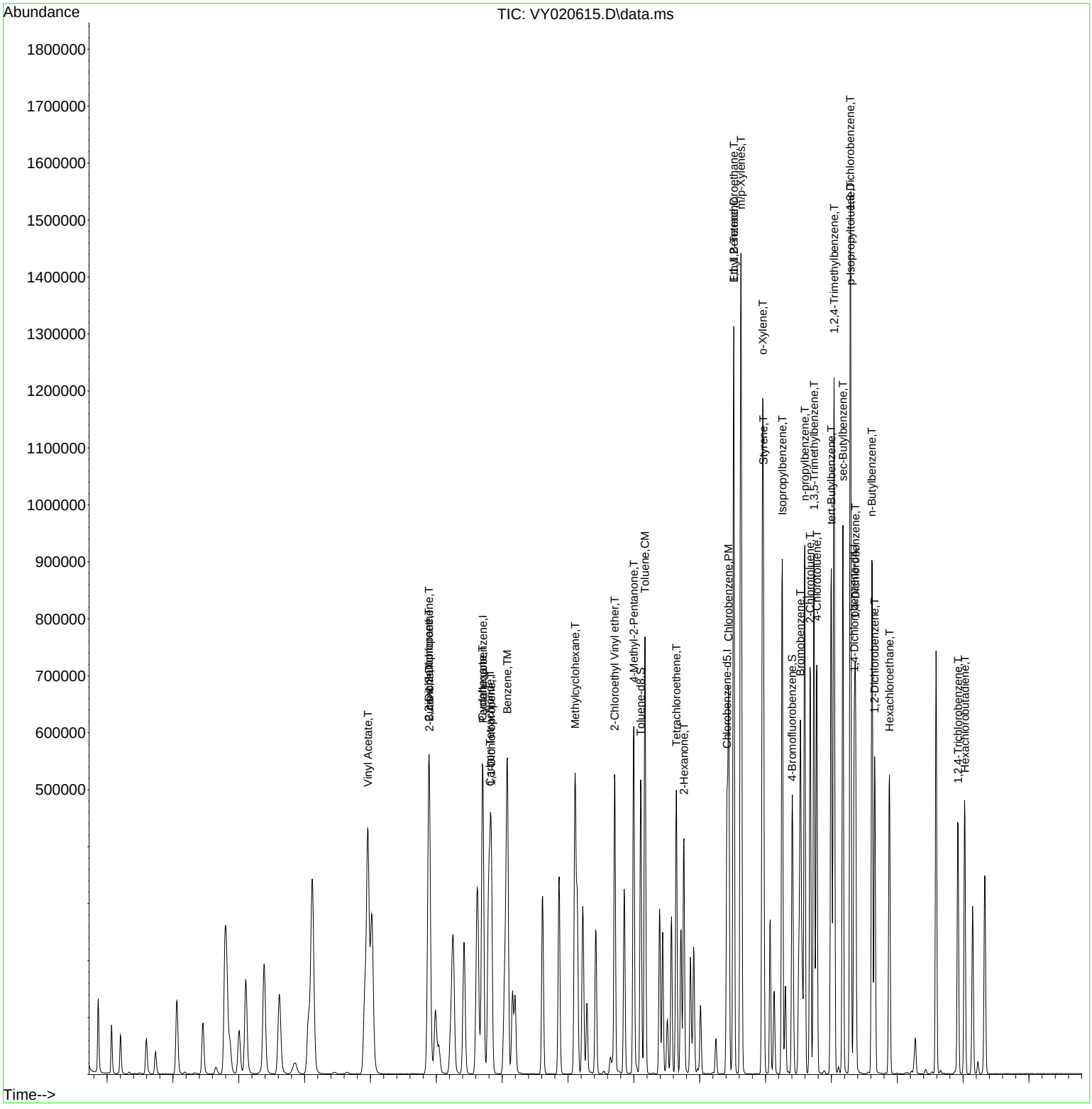
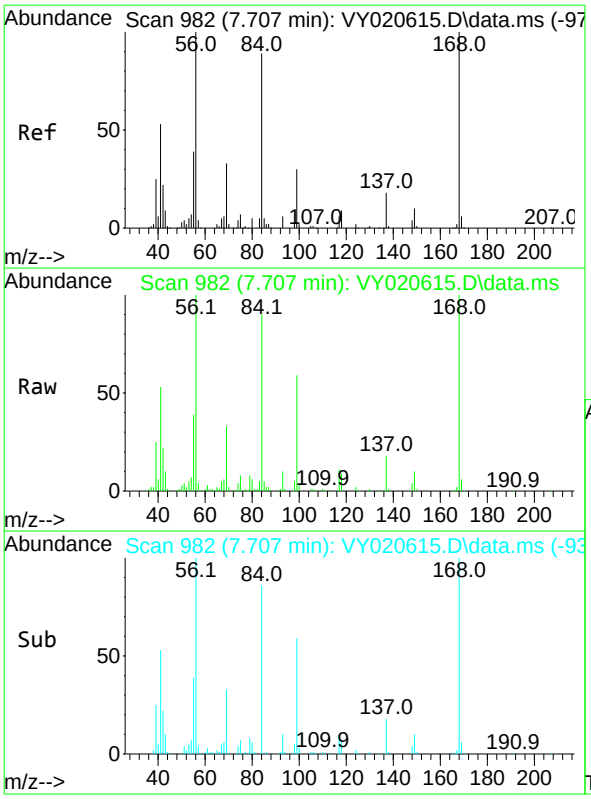
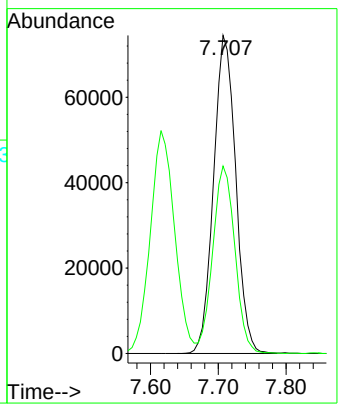





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. -0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:168 Resp: 169292

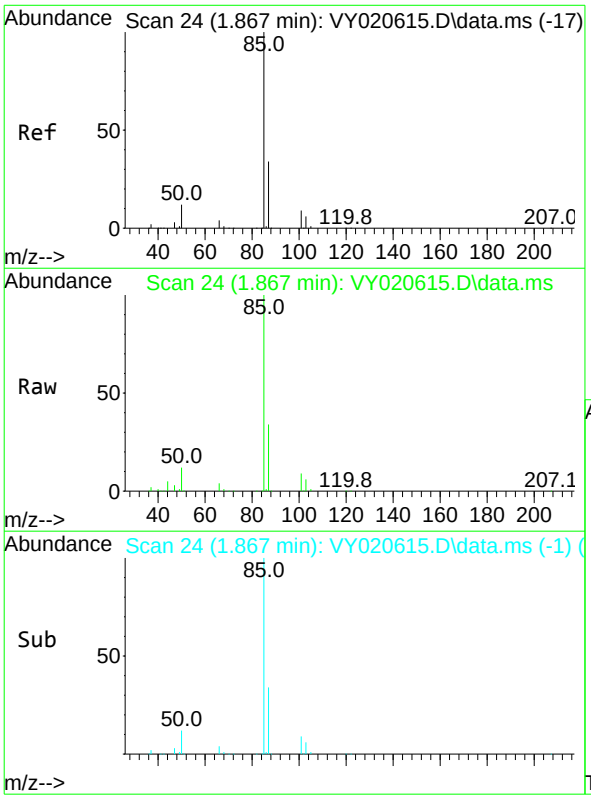
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.8 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

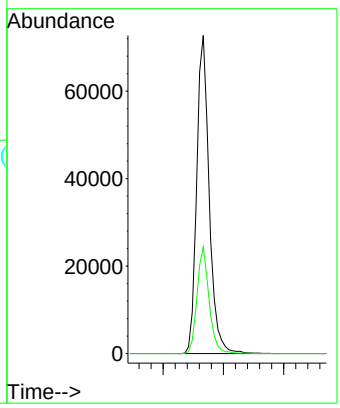
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

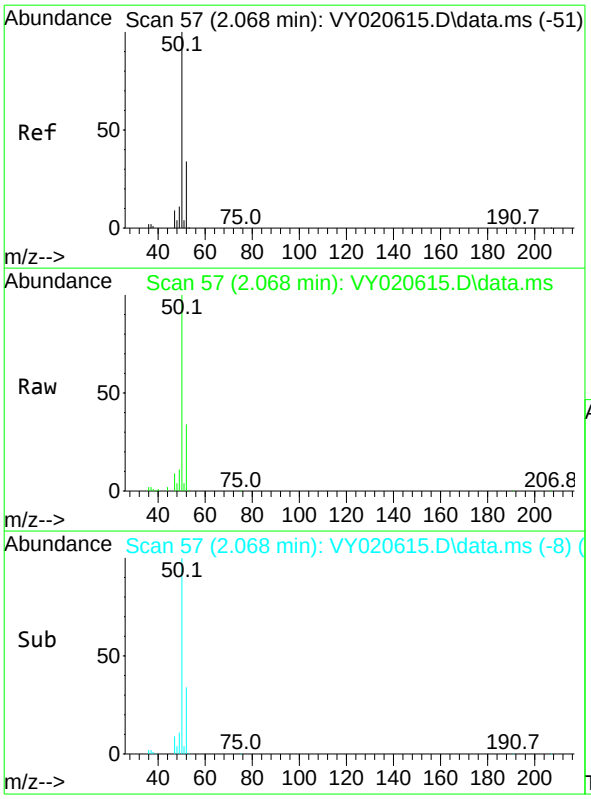



#2
Dichlorodifluoromethane
Concen: 49.416 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 85 Resp: 104493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.5 | 16.8 | 50.3 |

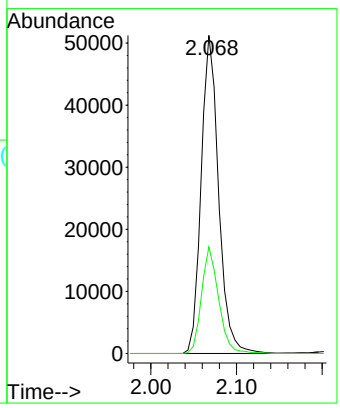





#3
Chloromethane
Concen: 46.229 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 50 Resp: 72429

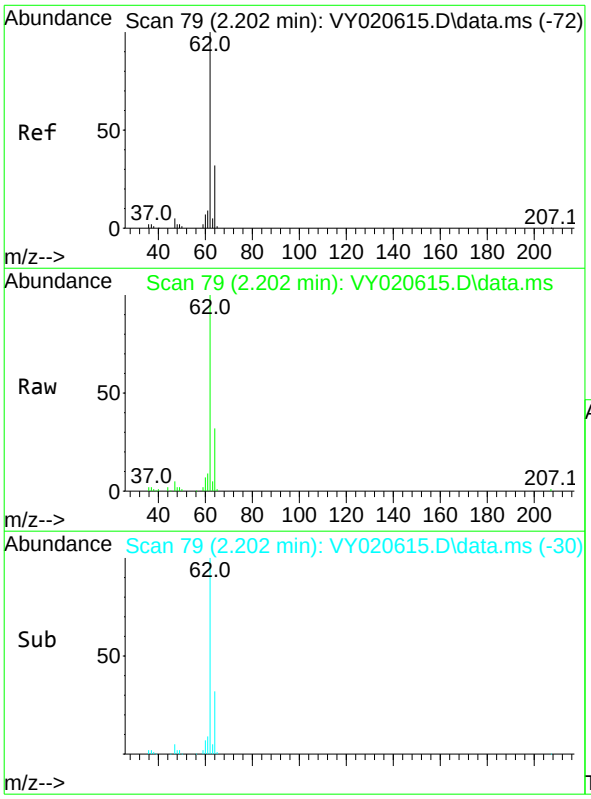
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.5 | 26.8 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

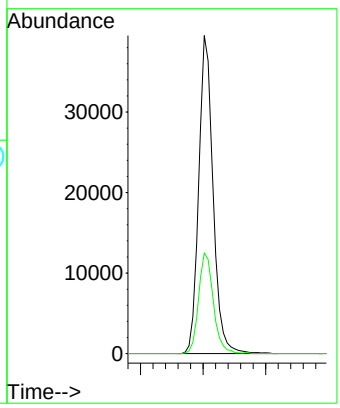
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

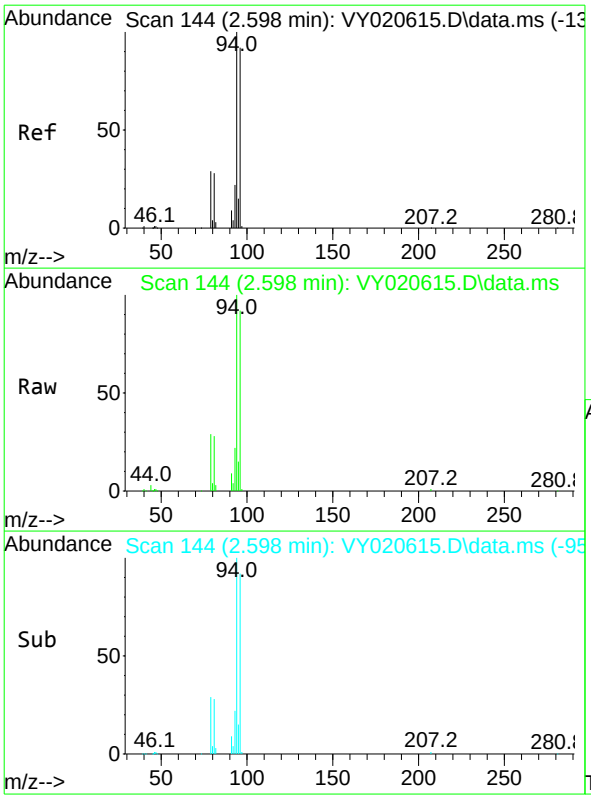



#4
Vinyl Chloride
Concen: 43.031 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 62 Resp: 62750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 25.3 | 37.9 |

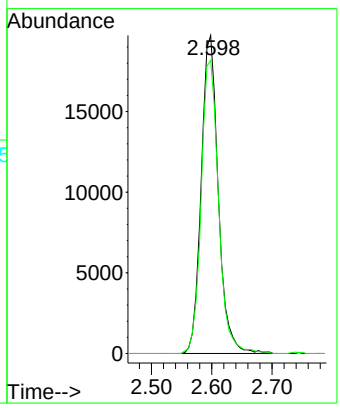





#5
Bromomethane
Concen: 41.303 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 94 Resp: 38716

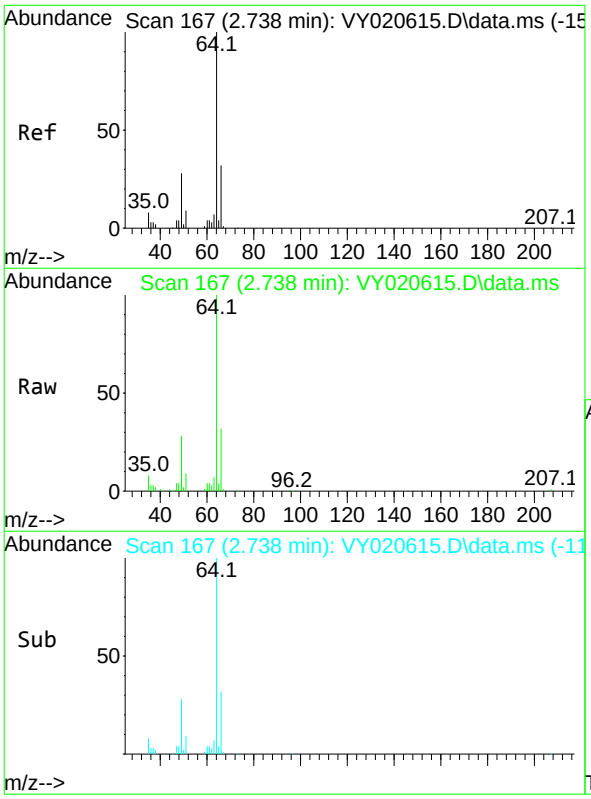
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.2 | 73.8 | 110.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

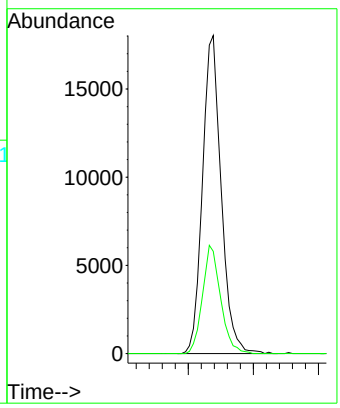
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

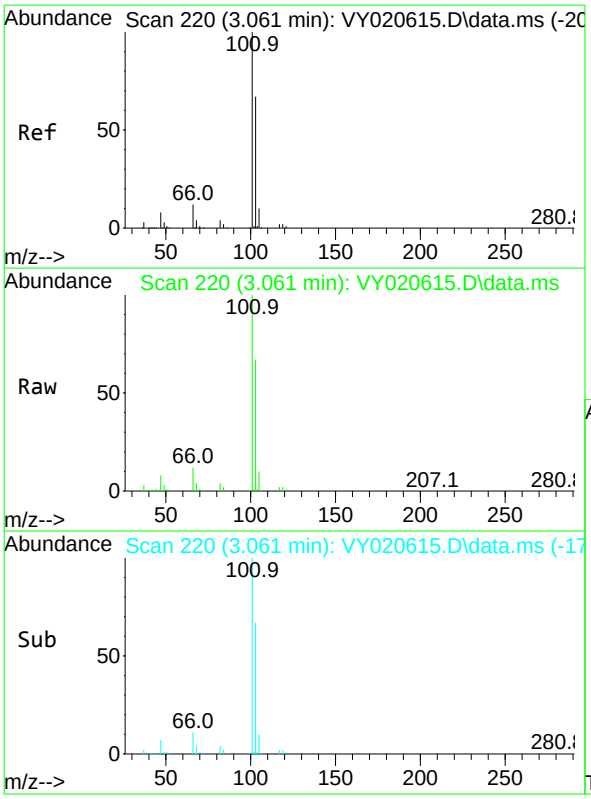



#6
Chloroethane
Concen: 39.890 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 64 Resp: 35946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 25.8 | 38.6 |

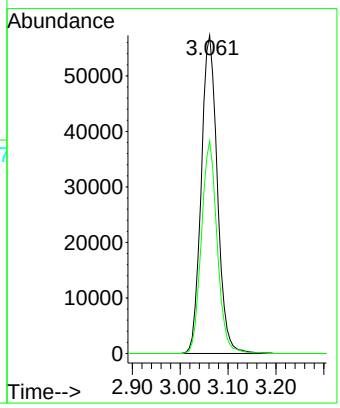





#7
Trichlorofluoromethane
Concen: 43.913 ug/l
RT: 3.061 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:101 Resp: 133990

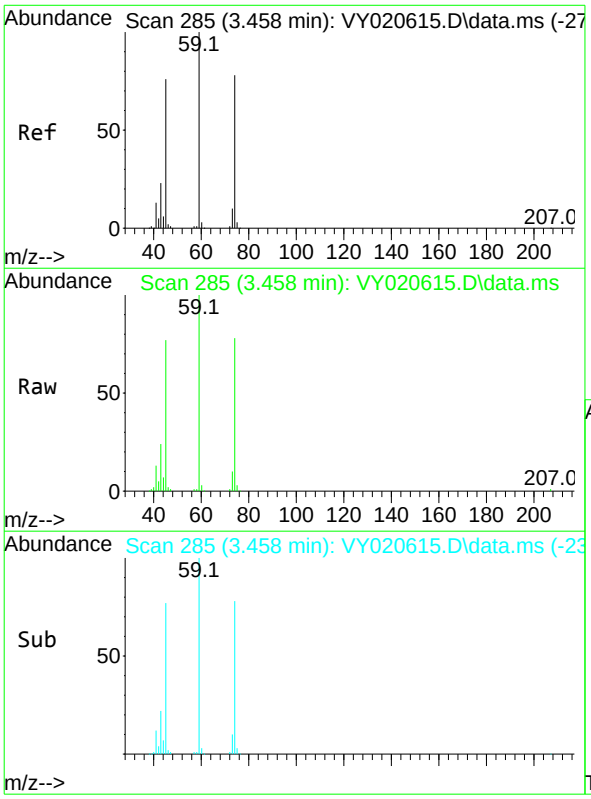
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.7 | 53.4 | 80.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

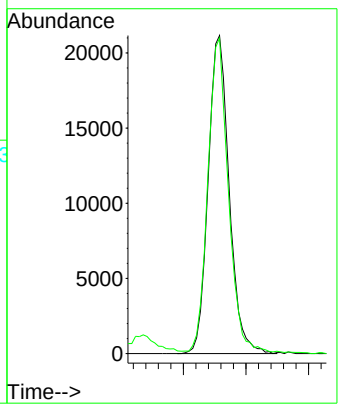
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

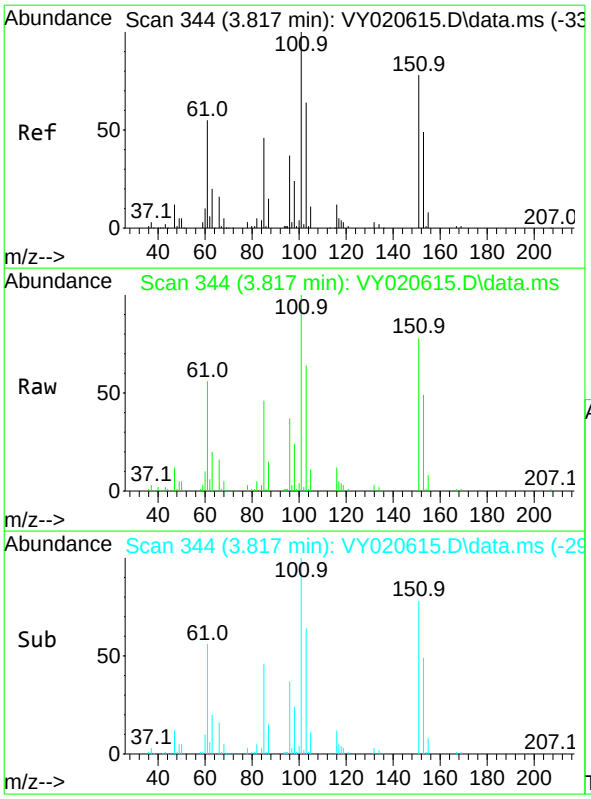



#8
Diethyl Ether
Concen: 45.993 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 74 Resp: 49218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.1 | 49.0 | 147.2 |

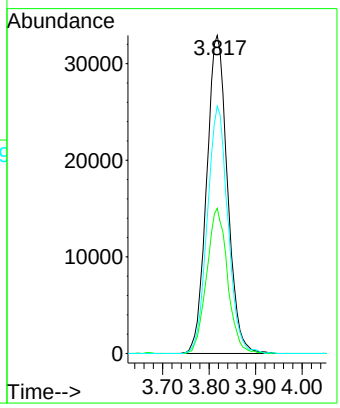





#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.710 ug/l
RT: 3.817 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:101 Resp: 102158

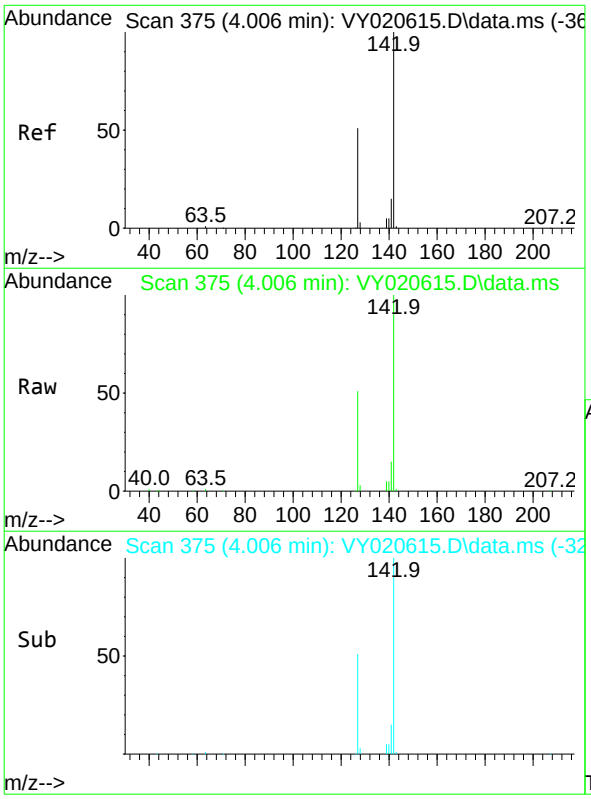
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.7 | 36.6 | 54.8 |
| 151 | 76.9 | 61.5 | 92.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

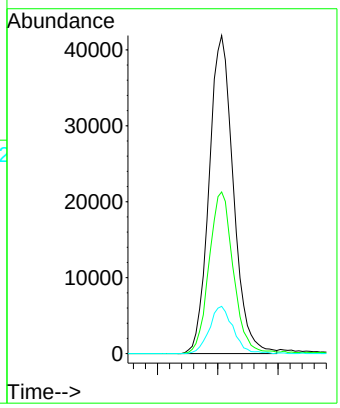
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

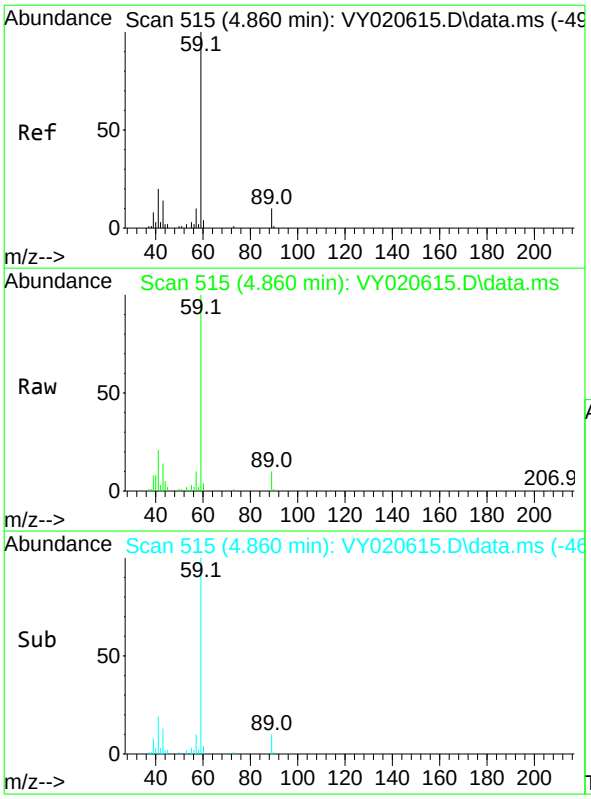



#10
Methyl Iodide
Concen: 48.135 ug/l
RT: 4.006 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:142 Resp: 117209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 50.8 | 40.6 | 61.0 |
| 141 | 14.6 | 11.7 | 17.5 |

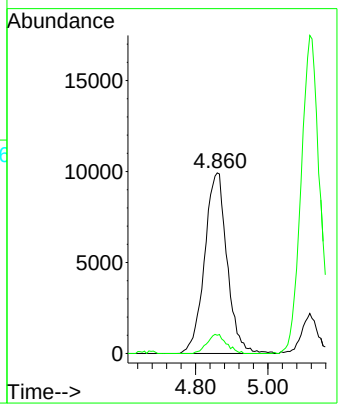





#11
Tert butyl alcohol
Concen: 214.068 ug/l
RT: 4.860 min Scan# 51
Delta R.T. -0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 59 Resp: 42756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.2 | 7.4 | 11.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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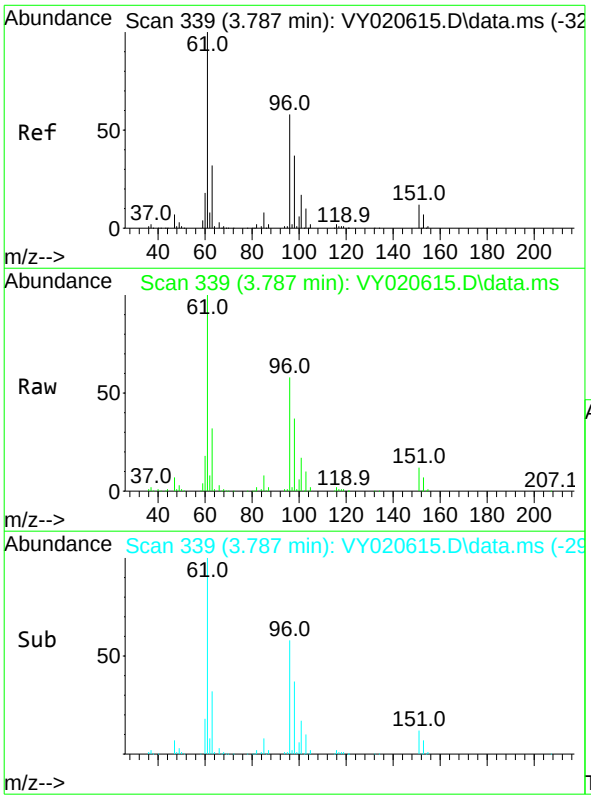
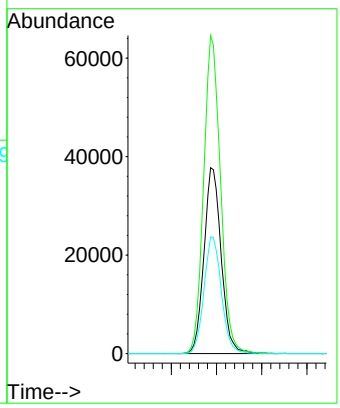
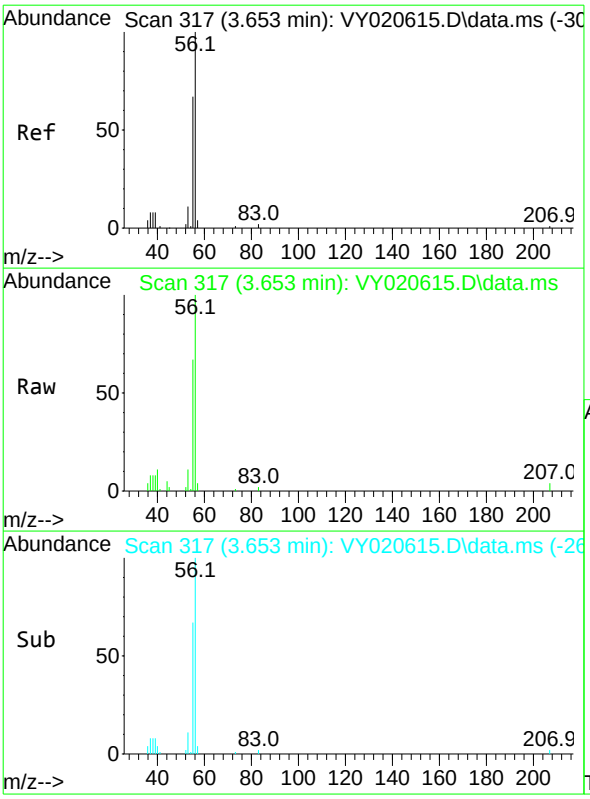



#12
1,1-Dichloroethene
Concen: 47.016 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 96 Resp: 99773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 171.1 | 136.9 | 205.3 |
| 98 | 62.8 | 50.2 | 75.4 |

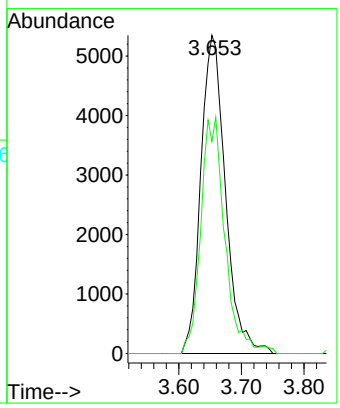





#13
Acrolein
Concen: 166.258 ug/l
RT: 3.653 min Scan# 31
Delta R.T. -0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 56 Resp: 14576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.9 | 57.5 | 86.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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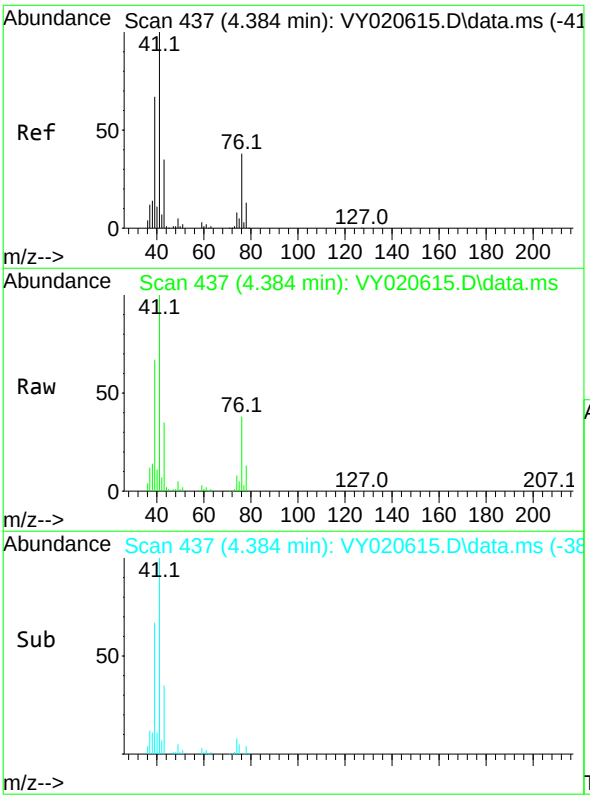
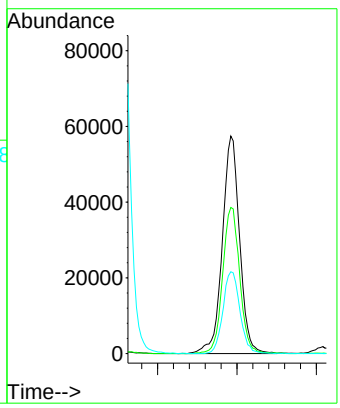
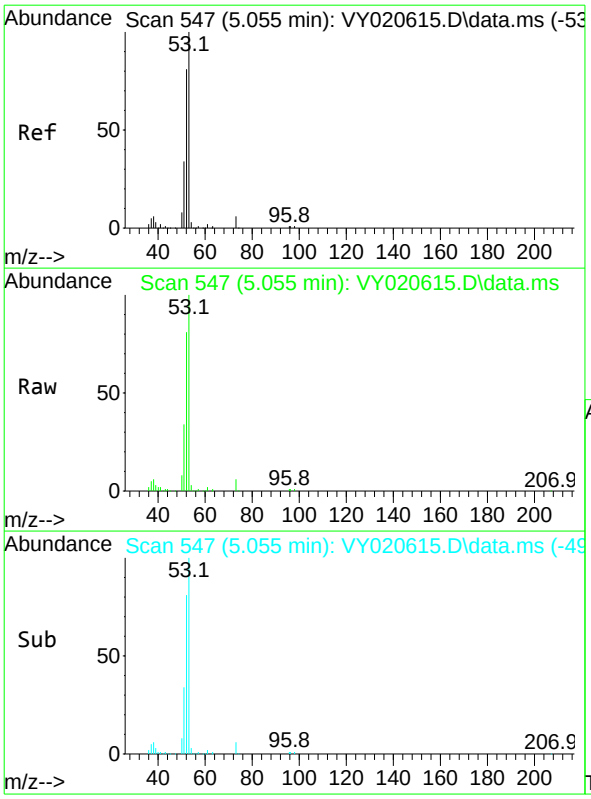



#14
Allyl chloride
Concen: 46.780 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 41 Resp: 173951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.2 | 53.0 | 79.4 |
| 76 | 36.9 | 29.5 | 44.3 |

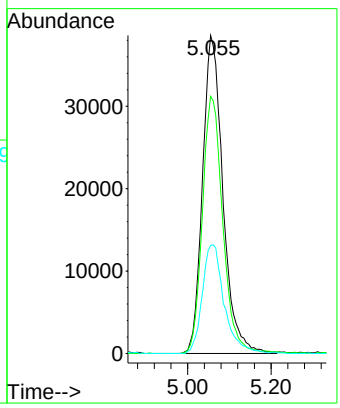





#15
Acrylonitrile
Concen: 255.615 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 53 Resp: 130861

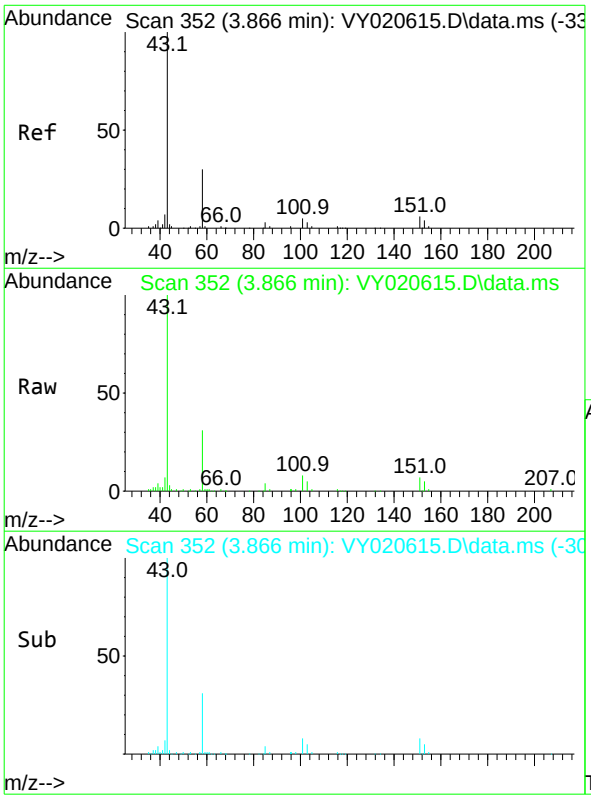
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.6 | 64.5 | 96.7 |
| 51 | 36.7 | 29.4 | 44.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

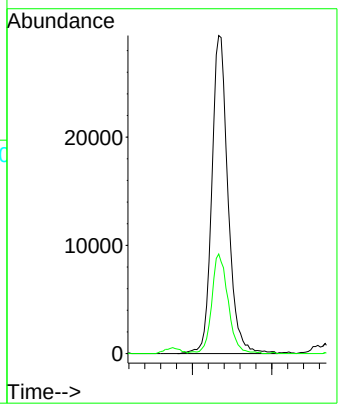
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

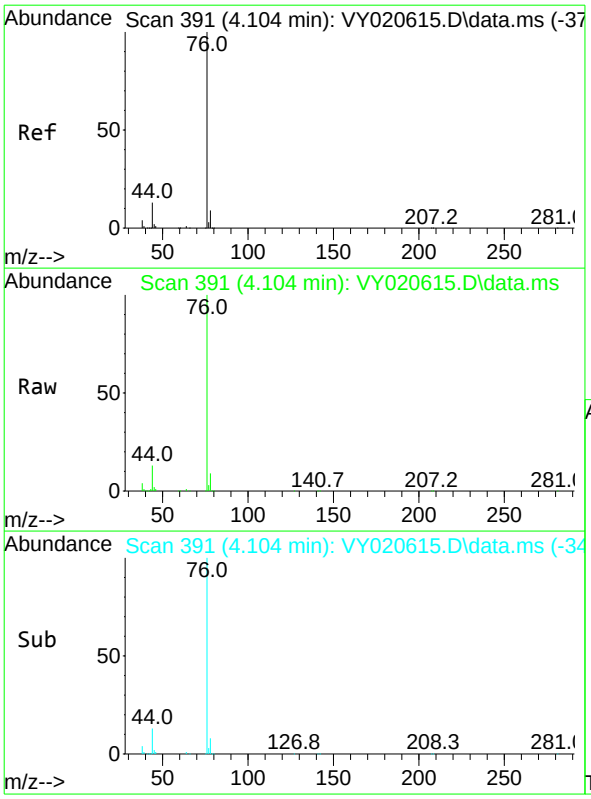



#16
Acetone
Concen: 225.255 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 83206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.3 | 25.0 | 37.6 |

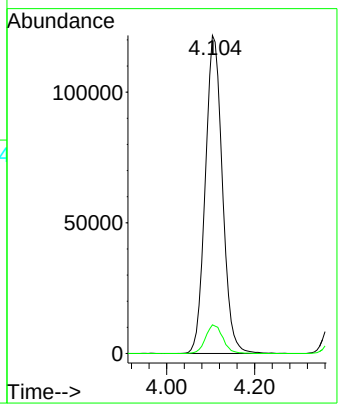





#17
Carbon Disulfide
Concen: 47.529 ug/l
RT: 4.104 min Scan# 39
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 76 Resp: 328309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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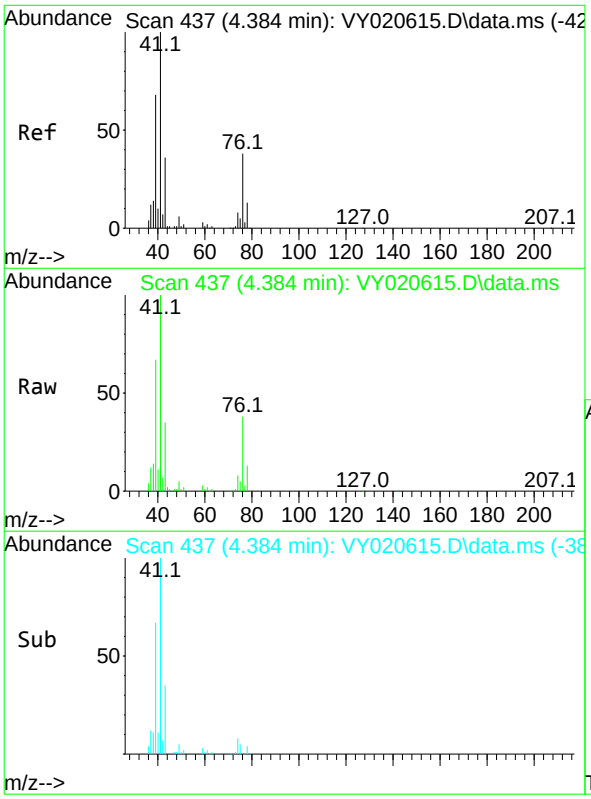
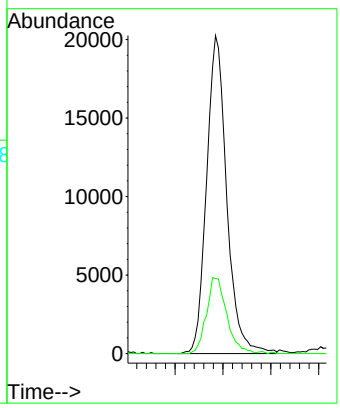
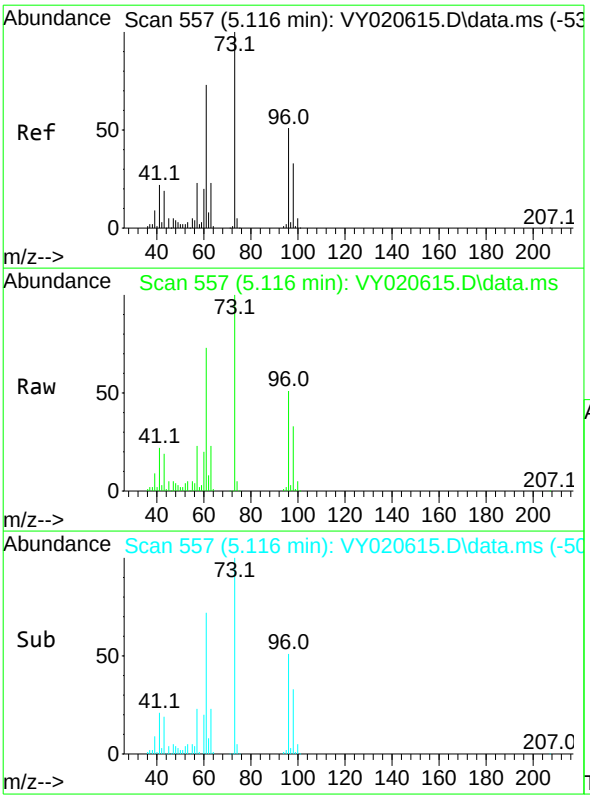



#18
Methyl Acetate
Concen: 46.948 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 59224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.0 | 19.2 | 28.8 |

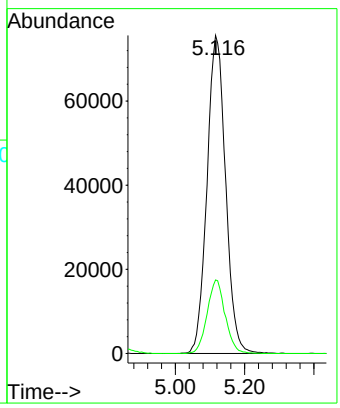





#19
Methyl tert-butyl Ether
Concen: 51.414 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 73 Resp: 281609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.1 | 18.5 | 27.7 |

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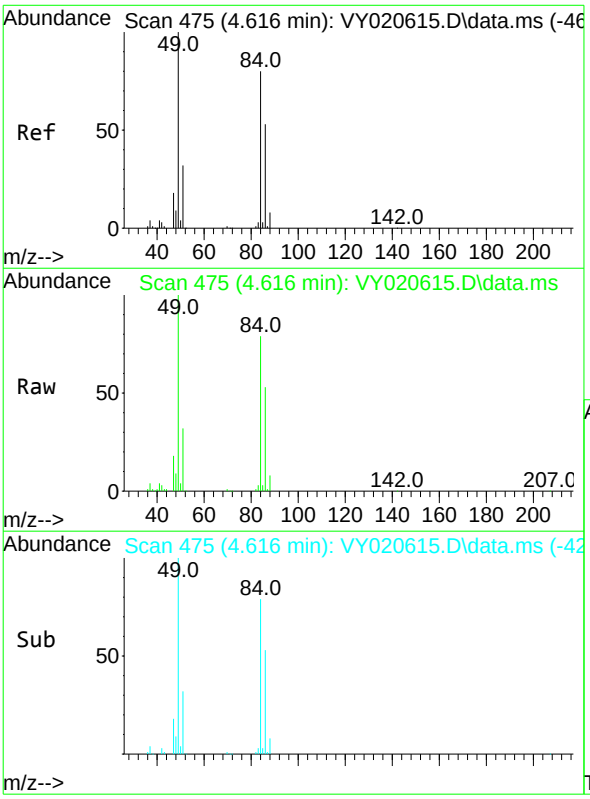
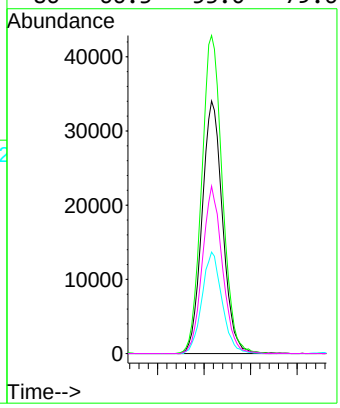
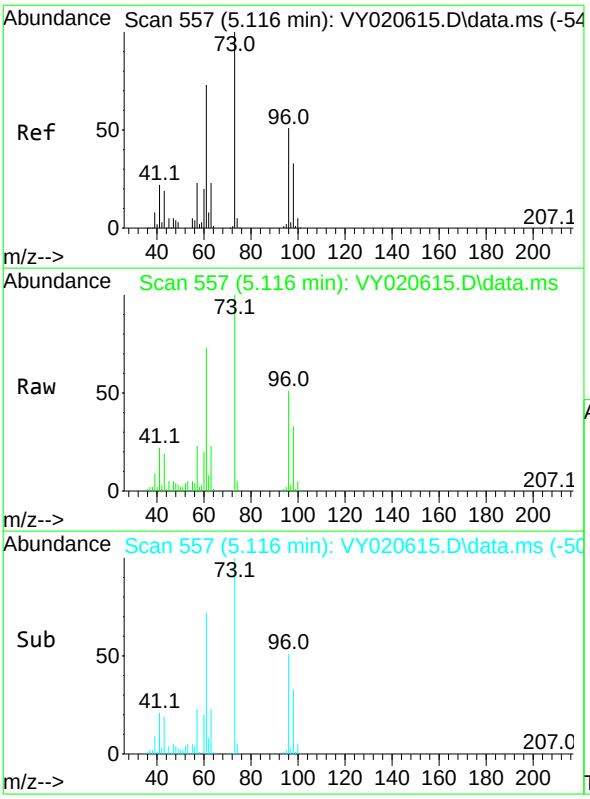



#20
Methylene Chloride
Concen: 45.319 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 84 Resp: 104472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.9 | 100.7 | 151.1 |
| 51 | 40.2 | 32.2 | 48.2 |
| 86 | 66.3 | 53.0 | 79.6 |

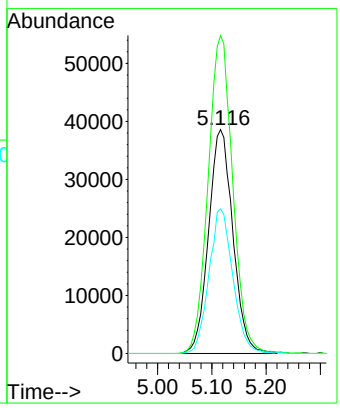





#21
trans-1,2-Dichloroethene
Concen: 50.488 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 96 Resp: 120184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.1 | 113.7 | 170.5 |
| 98 | 64.6 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
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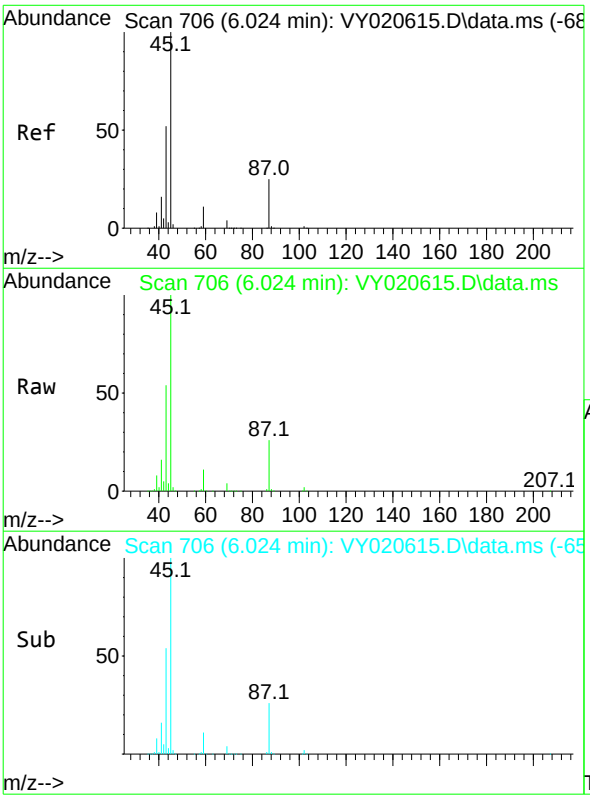
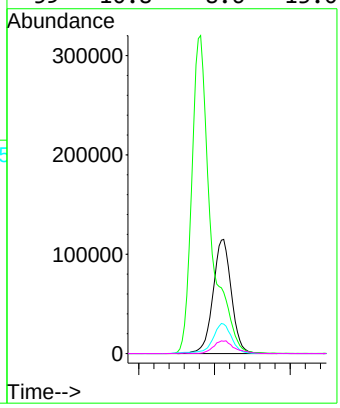
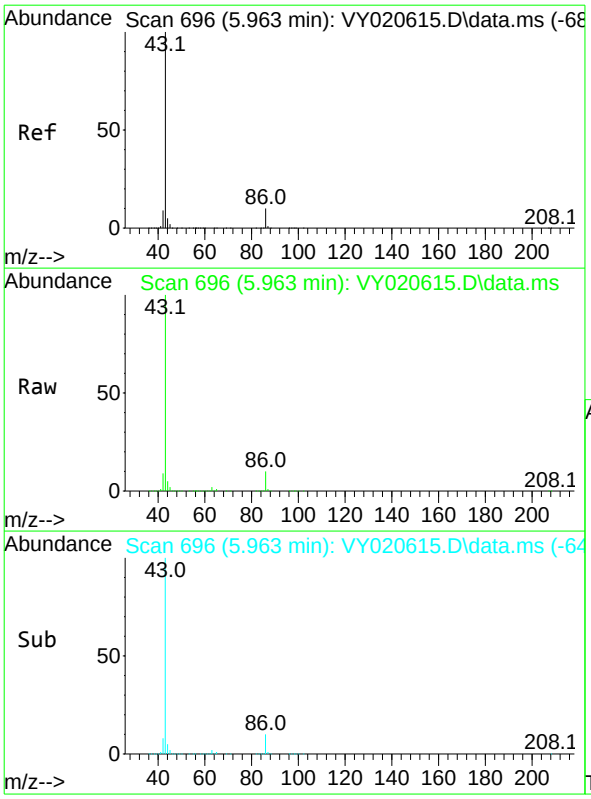



#22
Diisopropyl ether
Concen: 51.282 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 45 Resp: 387073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 53.3 | 42.6 | 64.0 |
| 87 | 25.8 | 20.6 | 31.0 |
| 59 | 10.8 | 8.6 | 13.0 |

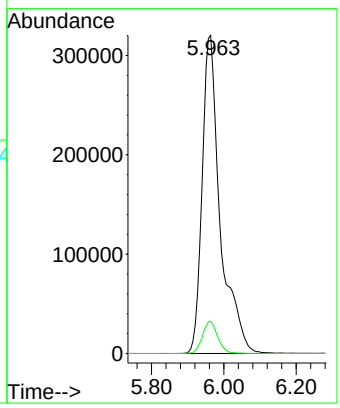





#23
Vinyl Acetate
Concen: 260.208 ug/l
RT: 5.963 min Scan# 69
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 1112368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.1 | 8.1 | 12.1 |




**Instrument :**
MSVOA_Y
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VSTDICCC050

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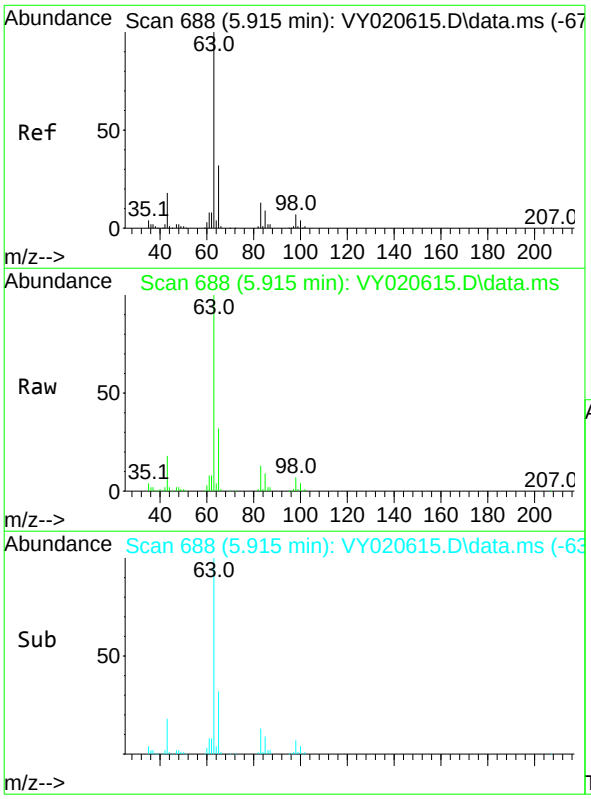
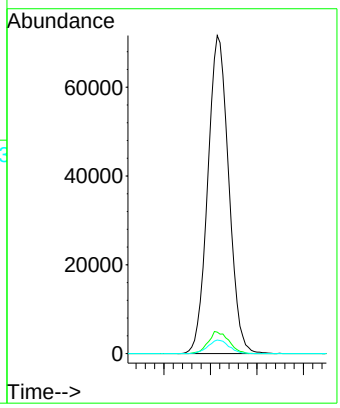
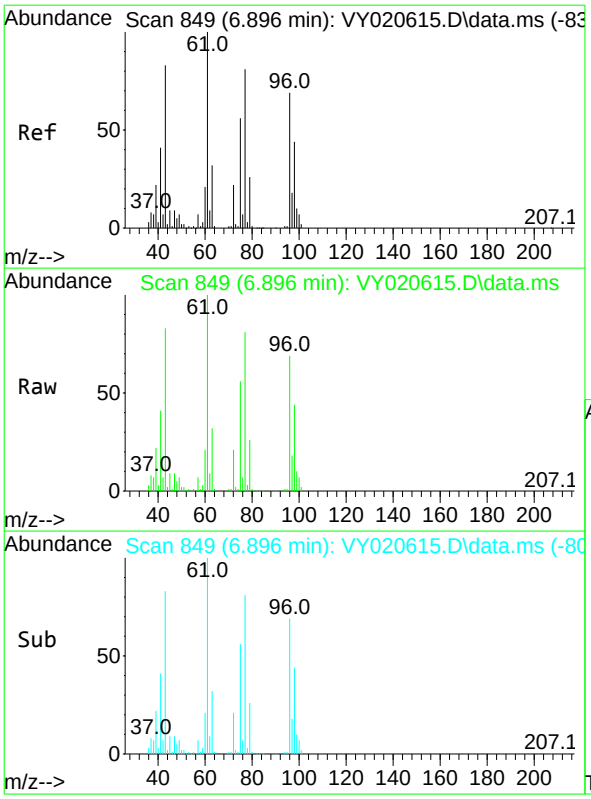



#24
1,1-Dichloroethane
Concen: 50.635 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 63 Resp: 223898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.7 | 3.4 | 10.1 |
| 100 | 4.3 | 2.1 | 6.5 |

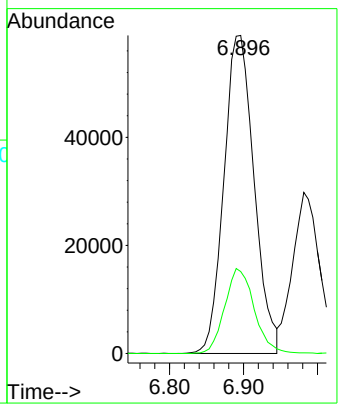





#25
2-Butanone
Concen: 242.593 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 167158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.8 | 20.6 | 31.0 |




**Instrument :**
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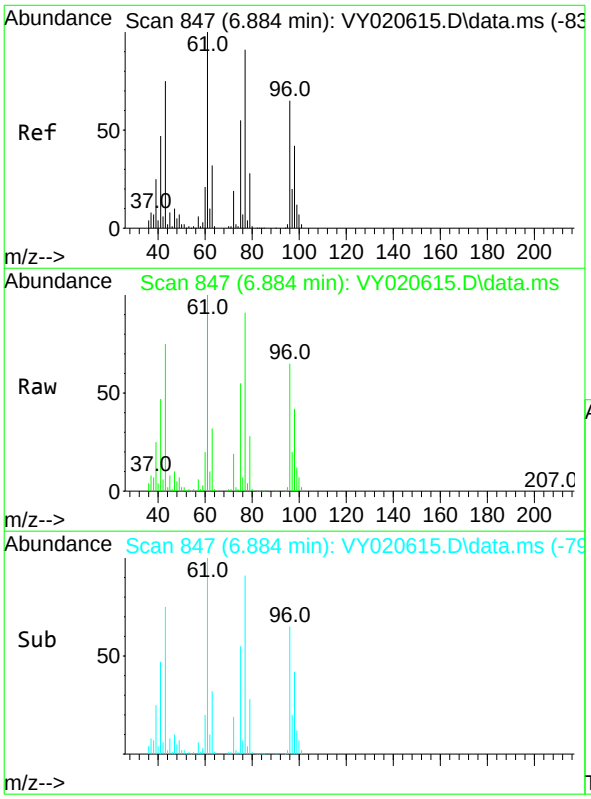
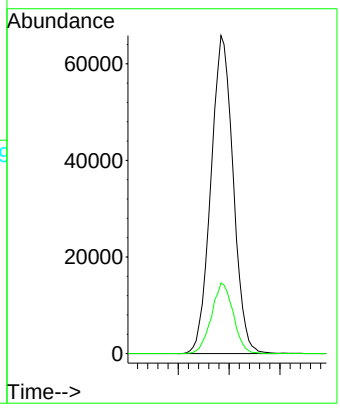
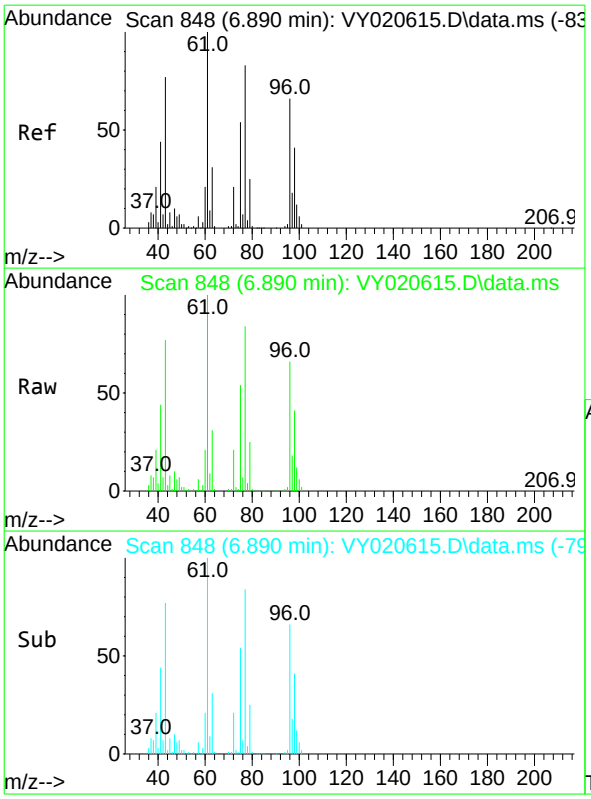



#26
2,2-Dichloropropane
Concen: 47.951 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 77 Resp: 200438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.7 | 10.9 | 32.6 |

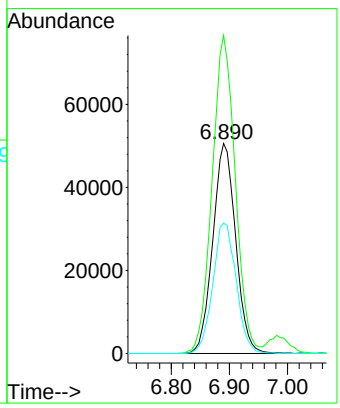





#27
cis-1,2-Dichloroethene
Concen: 50.490 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 96 Resp: 138280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.1 | 0.0 | 306.2 |
| 98 | 63.6 | 0.0 | 127.2 |

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MSVOA_Y
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VSTDICCC050

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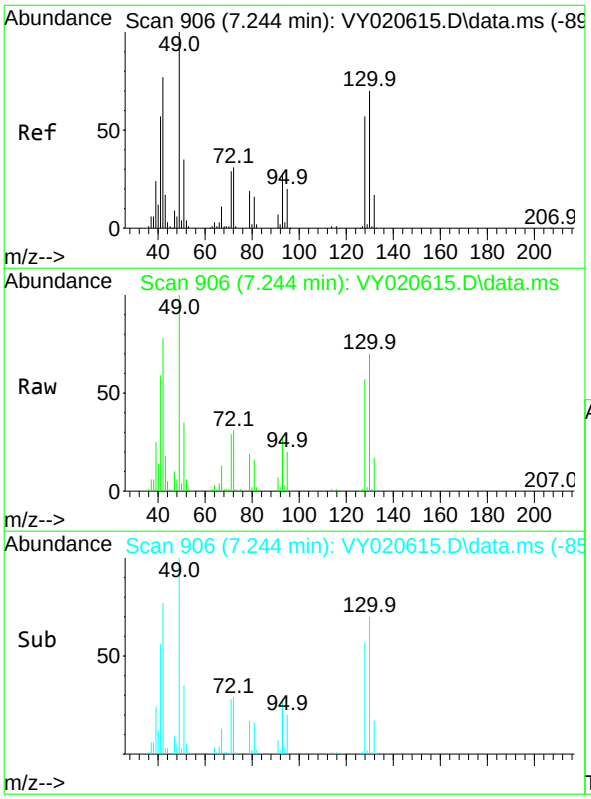
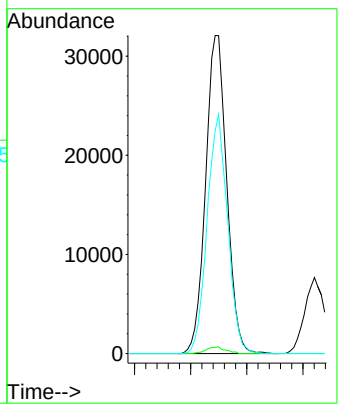
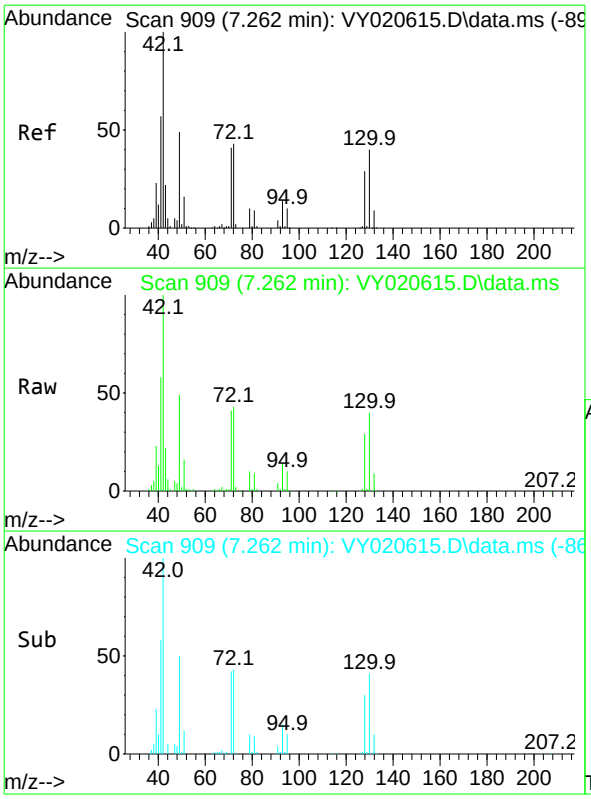



#28
Bromochloromethane
Concen: 56.199 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 49 Resp: 83821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.8 |
| 130 | 72.9 | 58.3 | 87.5 |

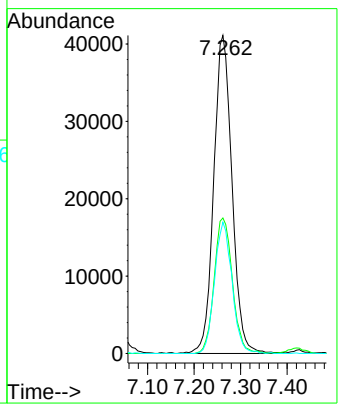





#29
Tetrahydrofuran
Concen: 258.011 ug/l
RT: 7.262 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 42 Resp: 112230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.5 | 34.0 | 51.0 |
| 71 | 39.5 | 31.6 | 47.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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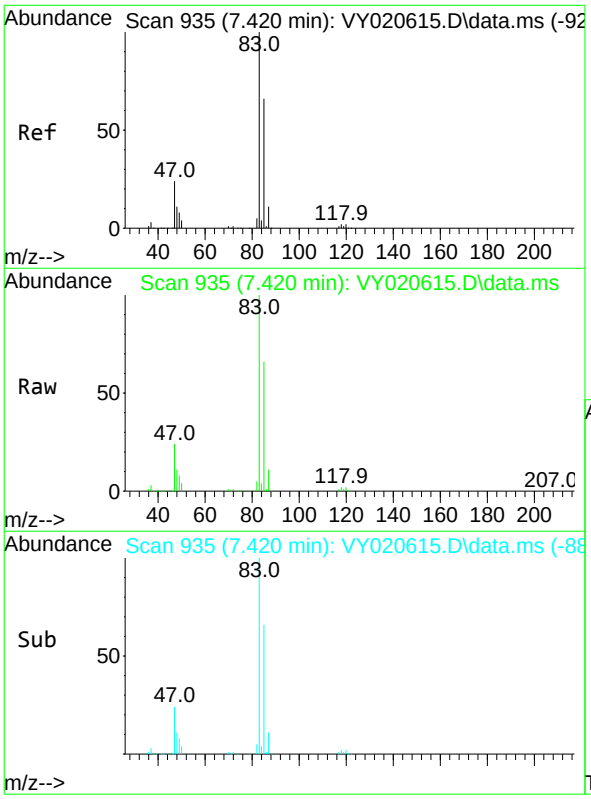
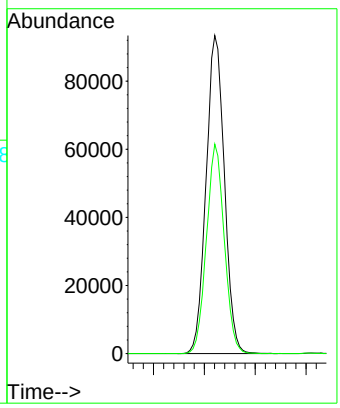
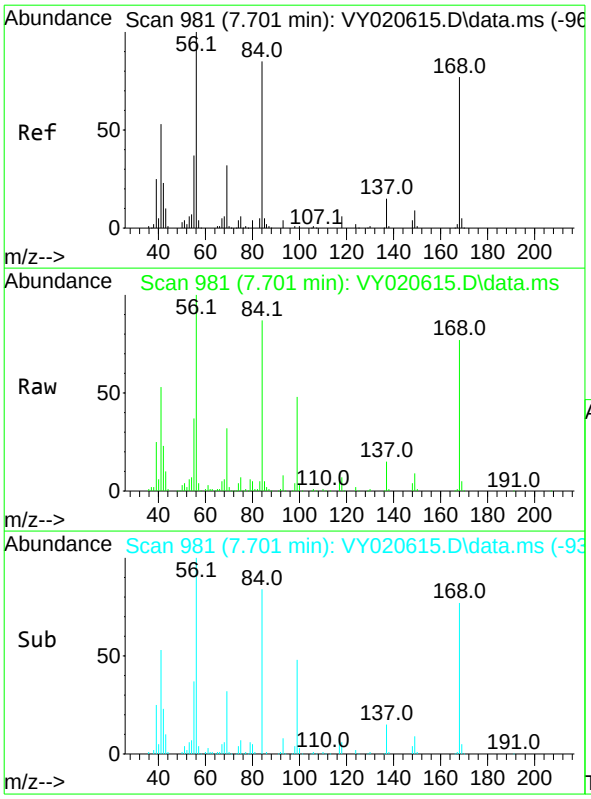



#30
Chloroform
Concen: 52.860 ug/l
RT: 7.420 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 83 Resp: 233357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.9 | 52.7 | 79.1 |

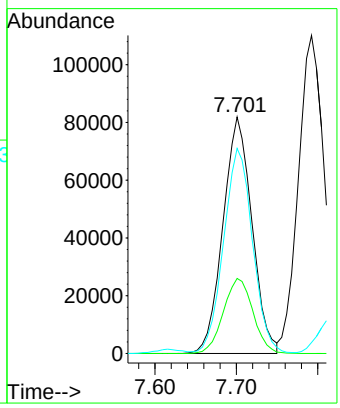





#31
Cyclohexane
Concen: 47.962 ug/l
RT: 7.701 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 56 Resp: 202782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.7 | 25.4 | 38.0 |
| 84 | 85.4 | 68.3 | 102.5 |




**Instrument :**
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**ClientSampleId :**
VSTDICCC050

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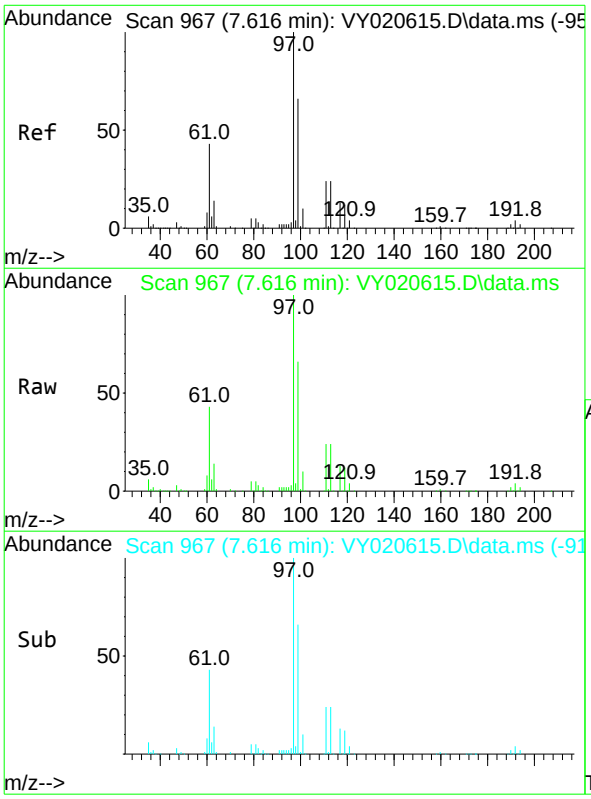
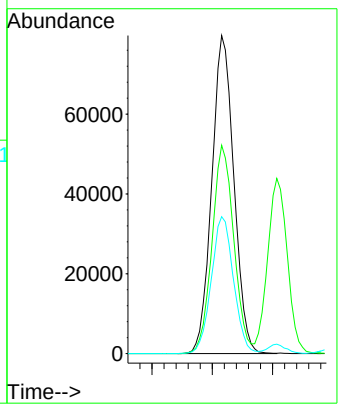
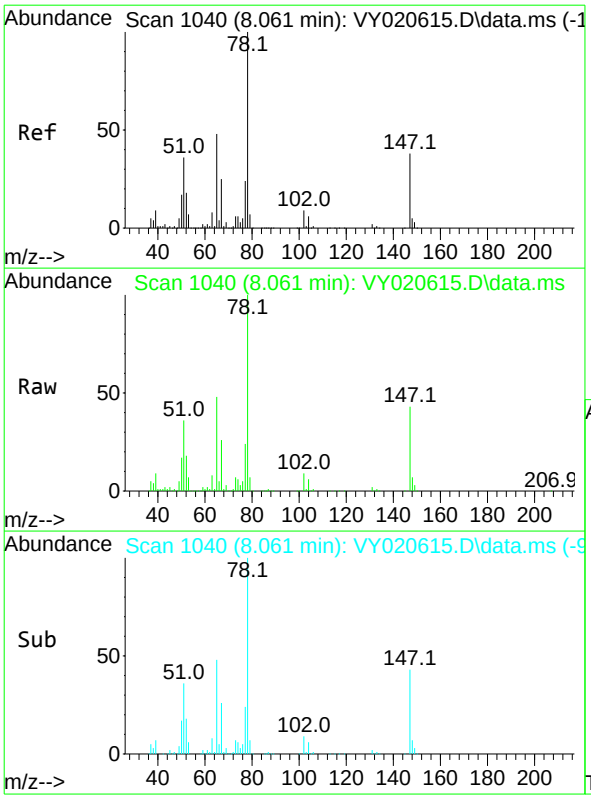



#32
1,1,1-Trichloroethane
Concen: 49.911 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 97 Resp: 202760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 43.4 | 34.7 | 52.1 |

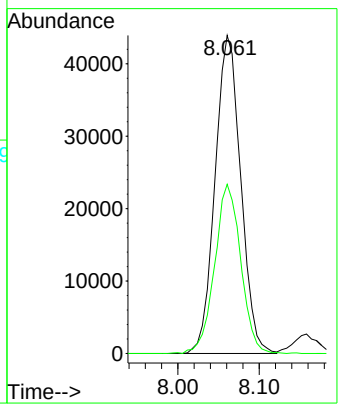





#33
1,2-Dichloroethane-d4
Concen: 51.933 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 65 Resp: 96289

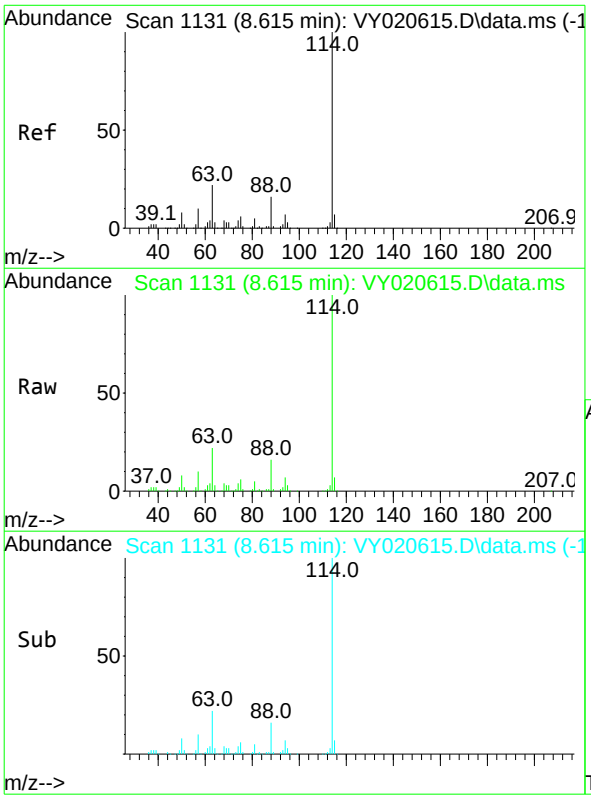
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 108.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

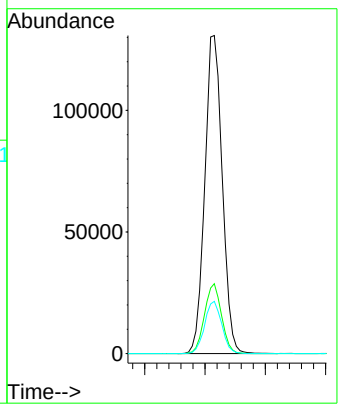
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

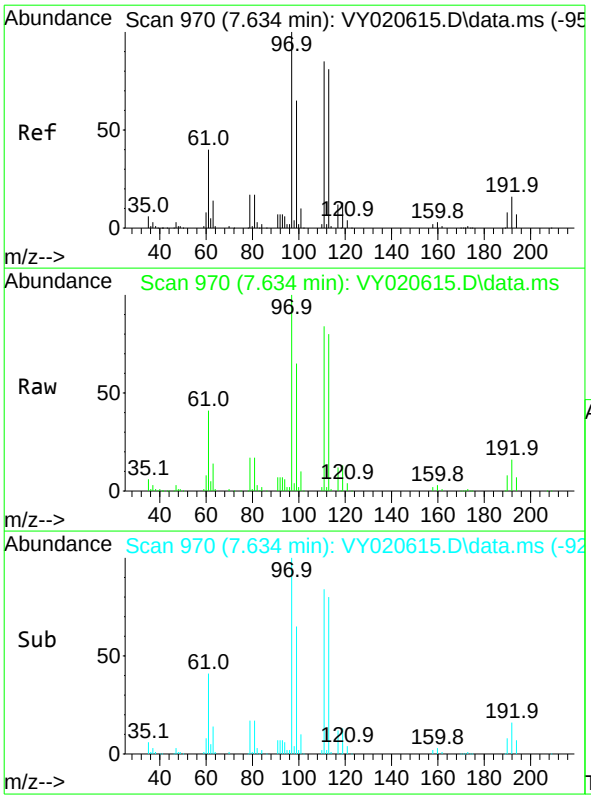



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:114 Resp: 263162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.0 | 0.0 | 44.0 |
| 88 | 16.4 | 0.0 | 32.8 |

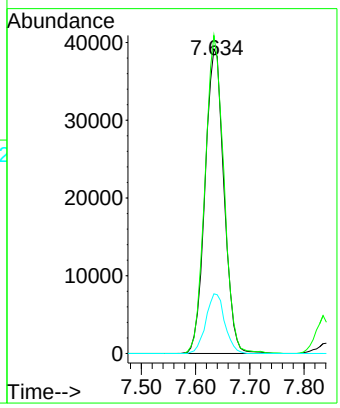





#35
Dibromofluoromethane
Concen: 51.139 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:113 Resp: 94848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.6 | 82.9 | 124.3 |
| 192 | 19.6 | 15.7 | 23.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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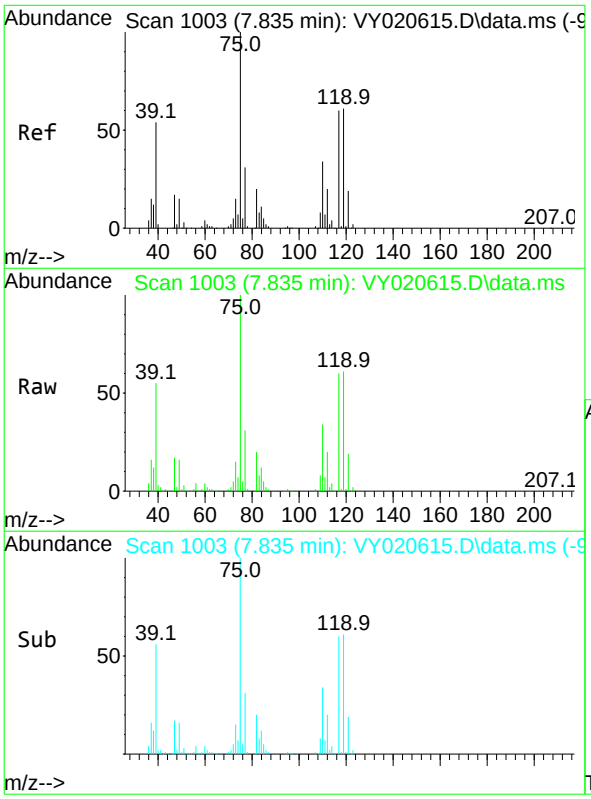
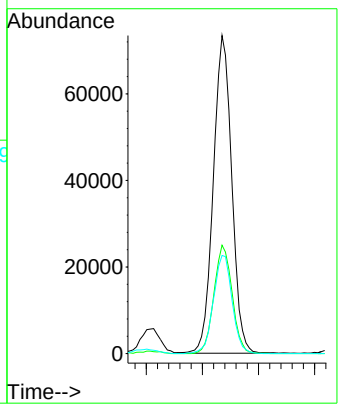
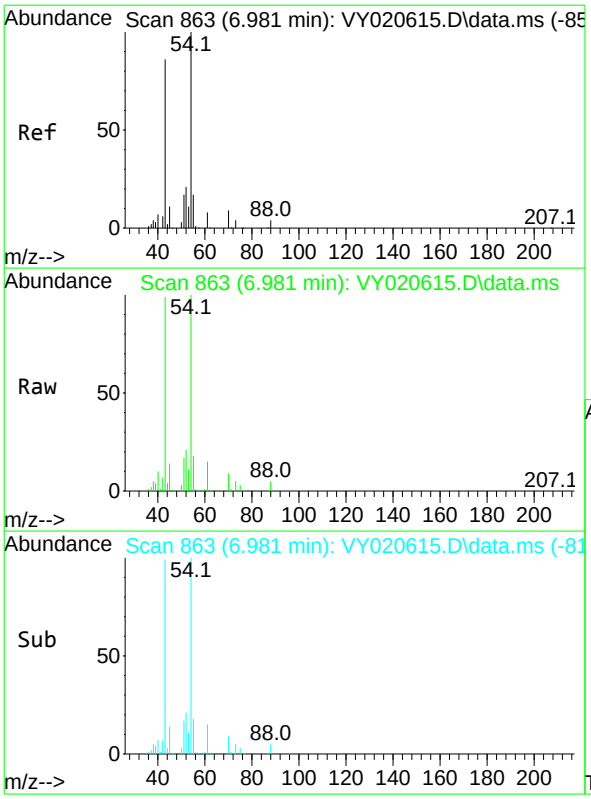



#36
1,1-Dichloropropene
Concen: 49.533 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 75 Resp: 167520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.6 | 16.8 | 50.4 |
| 77 | 31.3 | 25.0 | 37.6 |

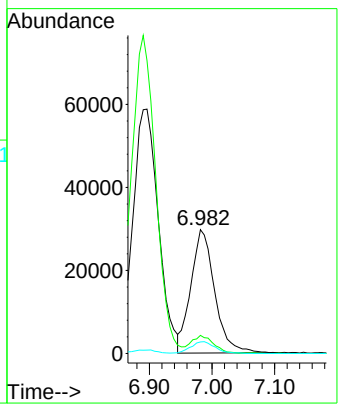





#37
Ethyl Acetate
Concen: 49.275 ug/l
RT: 6.981 min Scan# 86
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 78387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 11.0 | 16.4 |
| 70 | 9.9 | 7.9 | 11.9 |

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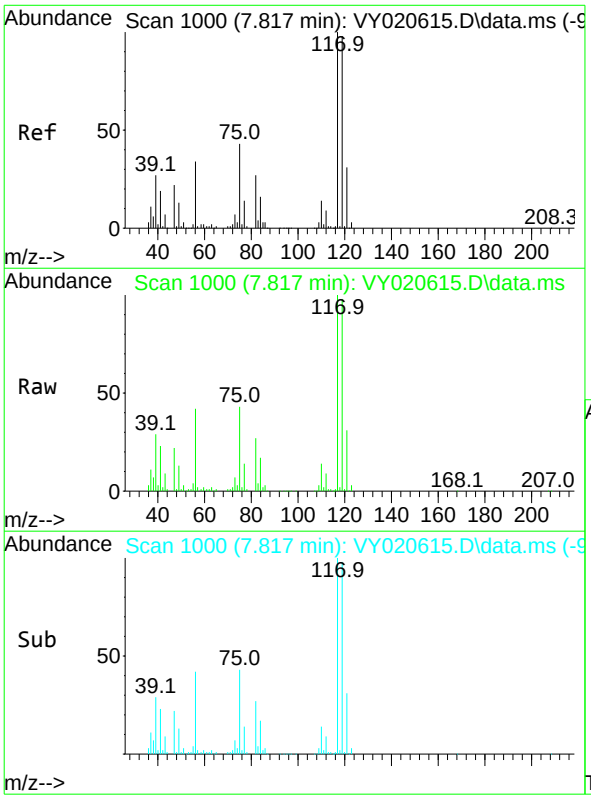
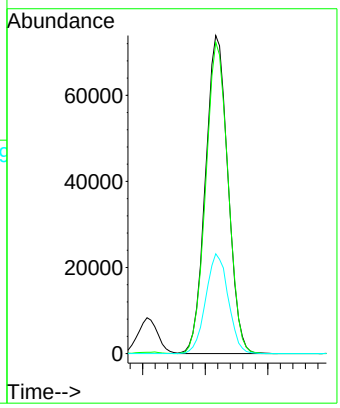
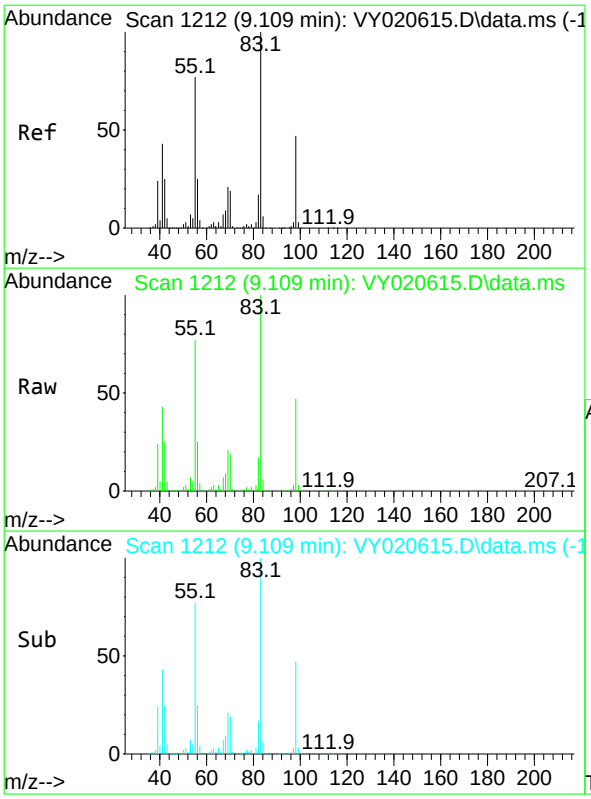



#38
Carbon Tetrachloride
Concen: 49.267 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:117 Resp: 184345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.9 | 78.3 | 117.5 |
| 121 | 31.4 | 25.1 | 37.7 |






#39
Methylcyclohexane
Concen: 49.696 ug/l
RT: 9.109 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 83 Resp: 219055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.7 | 61.4 | 92.0 |
| 98 | 46.6 | 37.3 | 55.9 |

**Instrument :**
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VSTDICCC050

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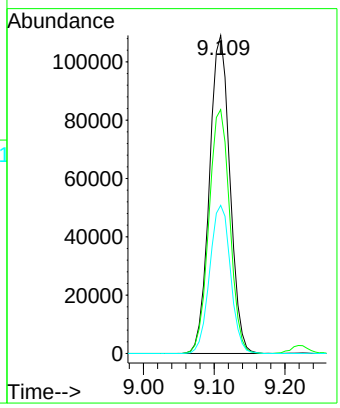
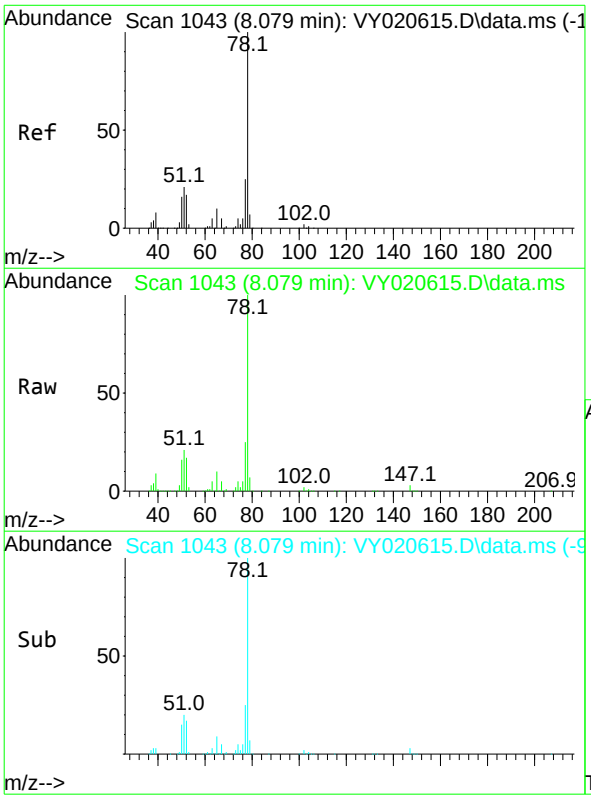
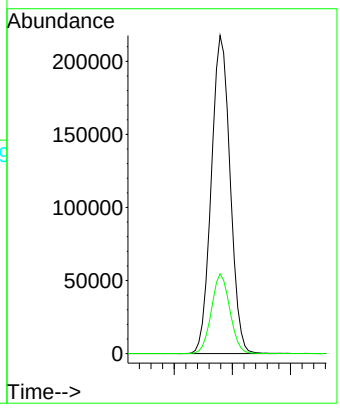


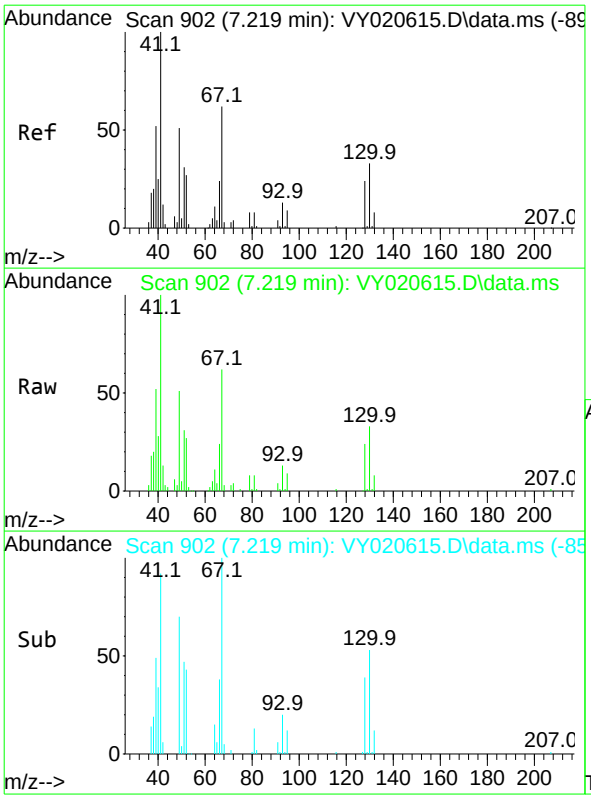




#40
Benzene
Concen: 49.343 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 78 Resp: 489140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.1 | 20.1 | 30.1 |

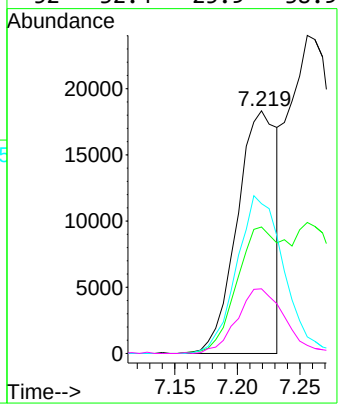





#41
Methacrylonitrile
Concen: 48.191 ug/l
RT: 7.219 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 41 Resp: 40529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.0 | 53.6 | 80.4 |
| 67 | 77.5 | 62.0 | 93.0 |
| 52 | 32.4 | 25.9 | 38.9 |

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MSVOA_Y
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VSTDICCC050

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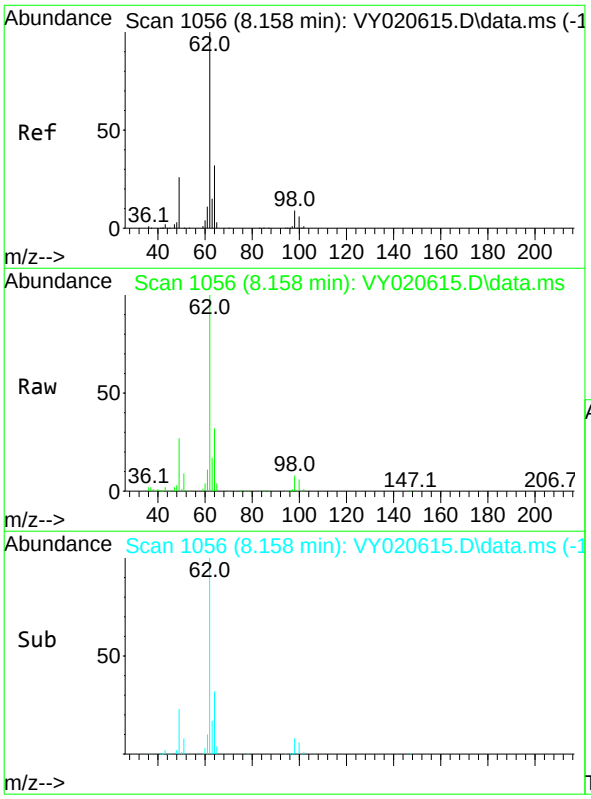
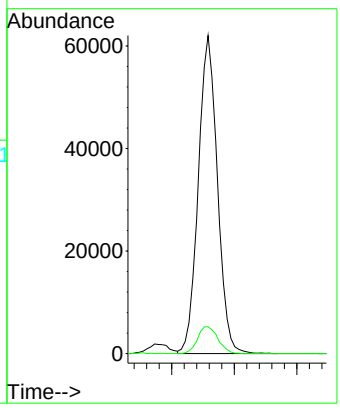
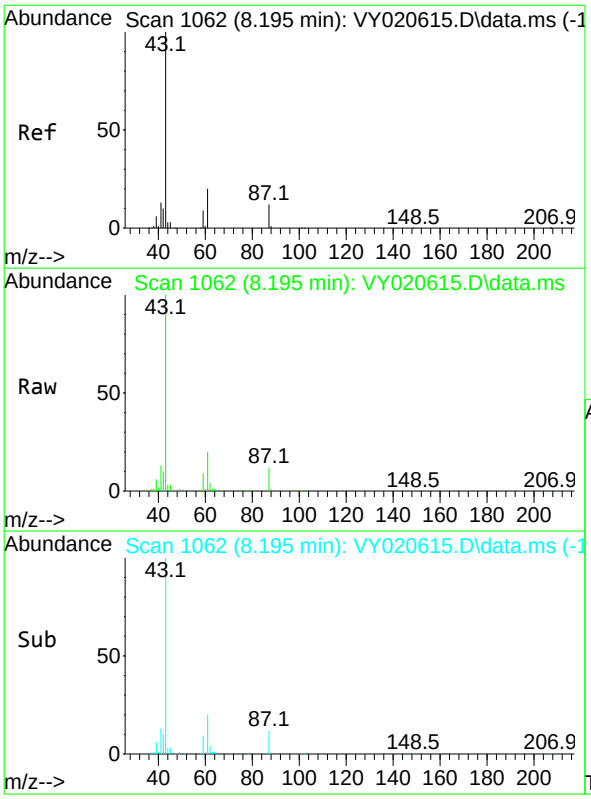



#42
1,2-Dichloroethane
Concen: 50.069 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 62 Resp: 131640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.0 | 0.0 | 18.0 |






#43
Isopropyl Acetate
Concen: 50.877 ug/l
RT: 8.195 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 153226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.7 | 23.8 | 35.6 |
| 87 | 12.8 | 10.2 | 15.4 |

**Instrument :**
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**ClientSampleId :**
VSTDICCC050

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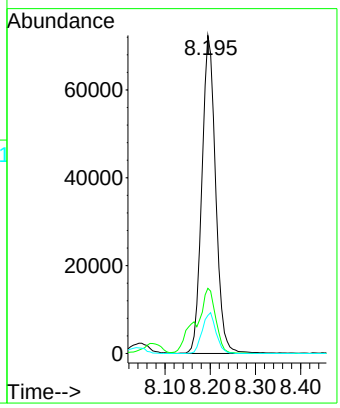
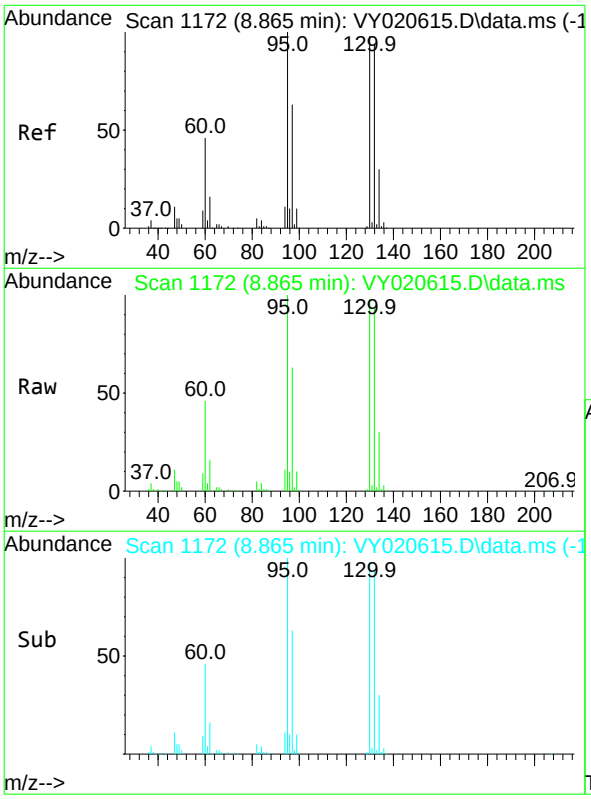
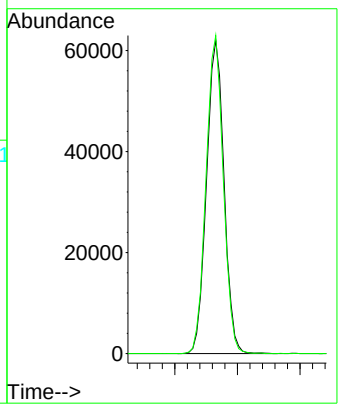


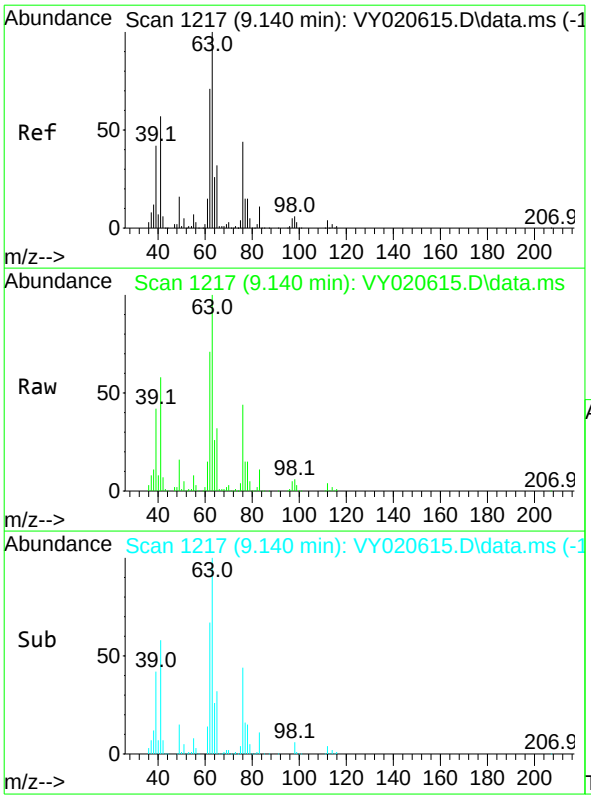




#44
Trichloroethene
Concen: 49.491 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:130 Resp: 120552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.6 | 0.0 | 203.2 |

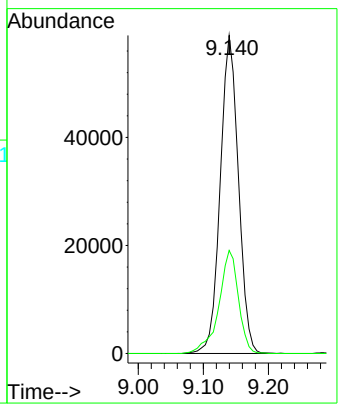





#45
1,2-Dichloropropane
Concen: 49.313 ug/l
RT: 9.140 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 63 Resp: 114250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.4 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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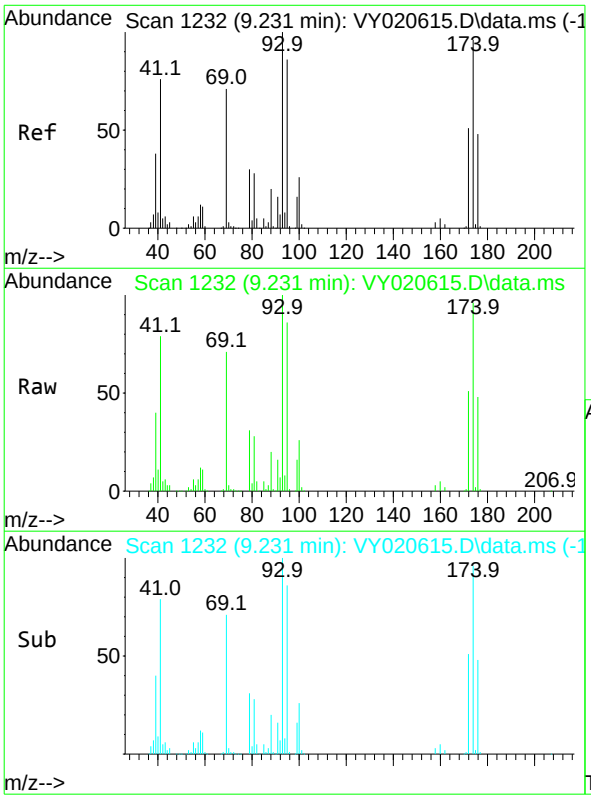
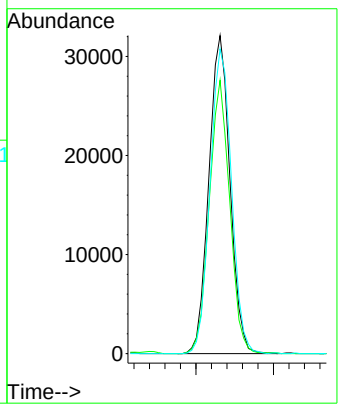
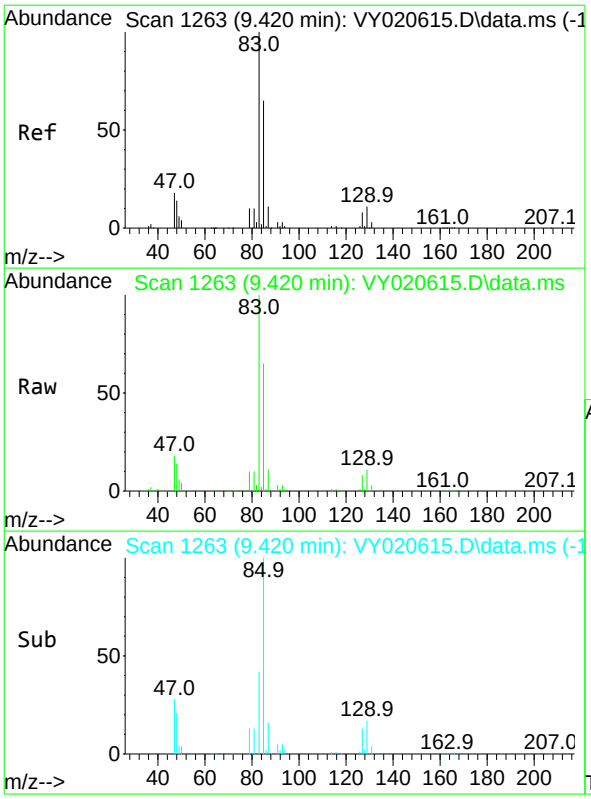



#46
Dibromomethane
Concen: 49.642 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 93 Resp: 60782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.4 | 66.7 | 100.1 |
| 174 | 97.2 | 77.8 | 116.6 |

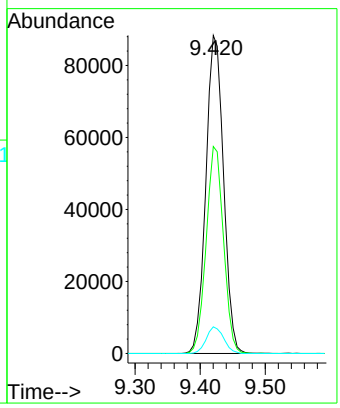





#47
Bromodichloromethane
Concen: 50.291 ug/l
RT: 9.420 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 83 Resp: 166333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 52.1 | 78.1 |
| 127 | 8.4 | 6.7 | 10.1 |

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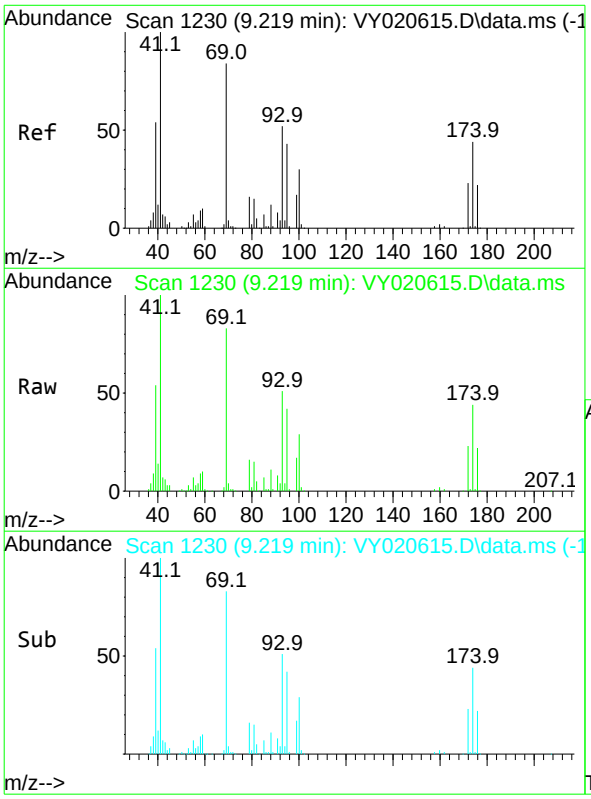
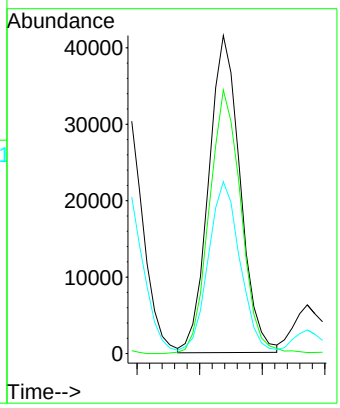
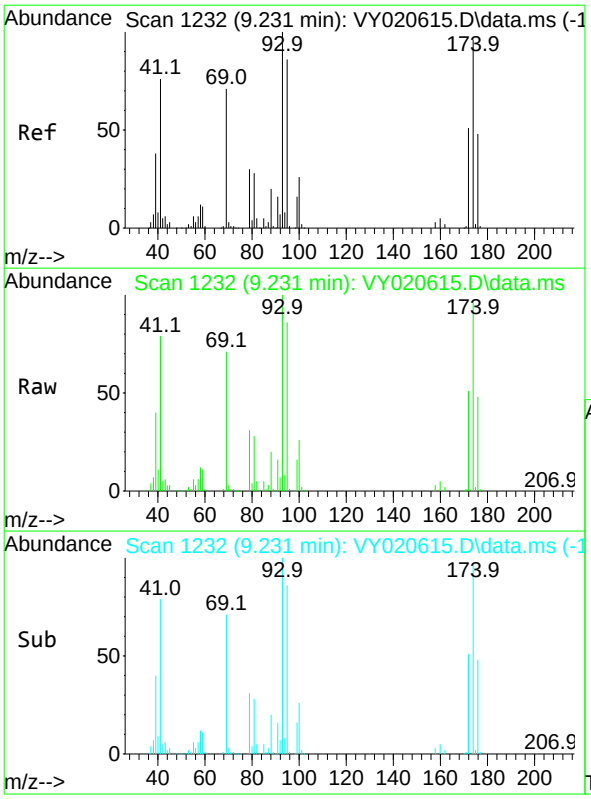



#48
Methyl methacrylate
Concen: 50.709 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 41 Resp: 72602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.0 | 67.2 | 100.8 |
| 39 | 52.8 | 42.2 | 63.4 |

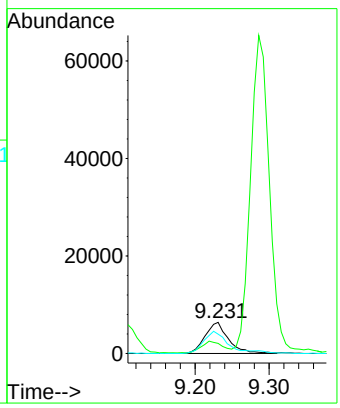





#49
1,4-Dioxane
Concen: 1001.939 ug/l
RT: 9.231 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 88 Resp: 14069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.5 | 27.6 | 41.4 |
| 58 | 77.1 | 61.7 | 92.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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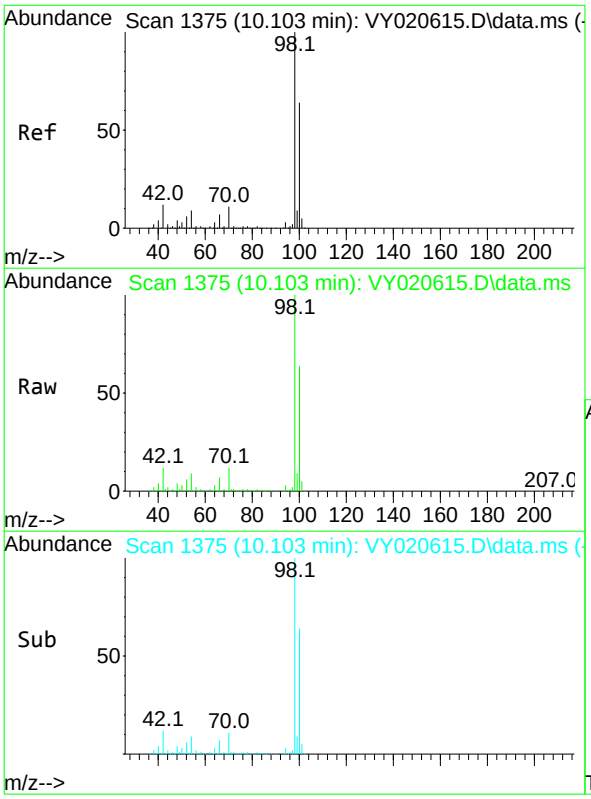
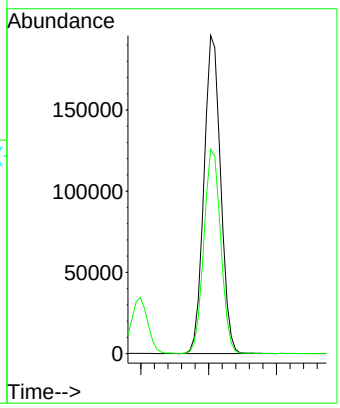
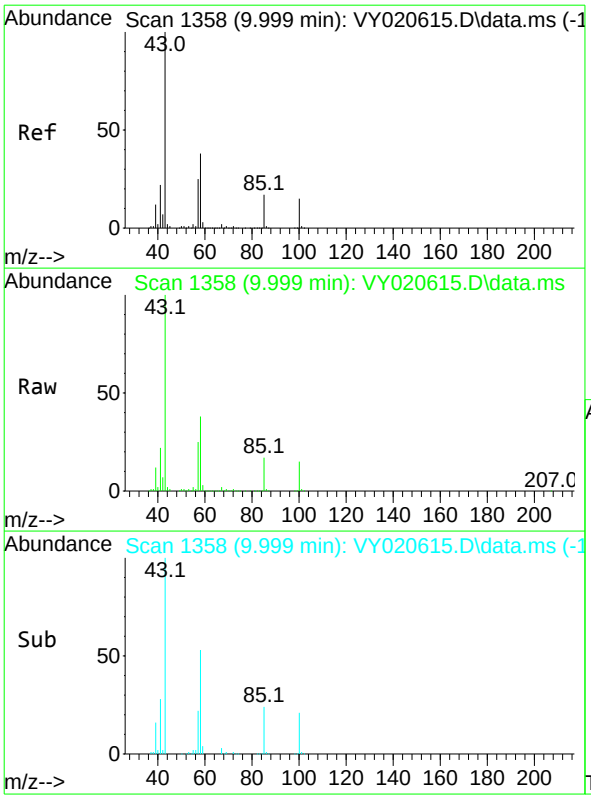



#50
Toluene-d8
Concen: 51.543 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 98 Resp: 334601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.1 | 78.1 |

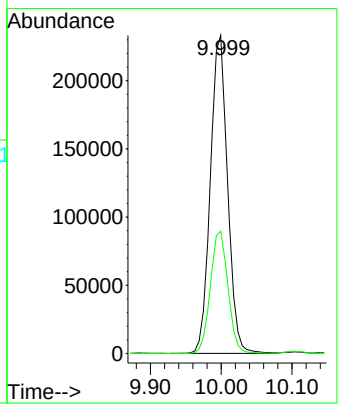





#51
4-Methyl-2-Pentanone
Concen: 247.835 ug/l
RT: 9.999 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 393979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.3 | 31.4 | 47.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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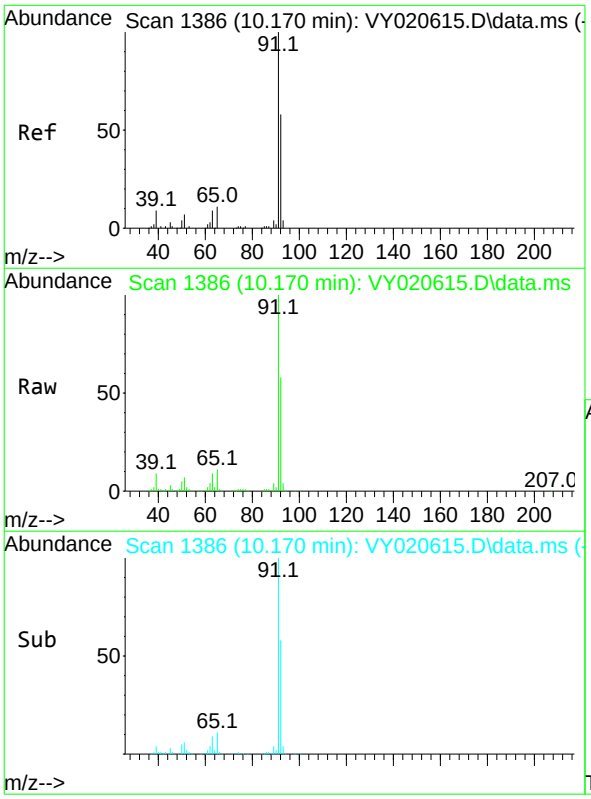
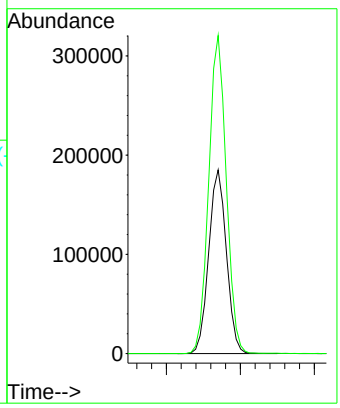
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

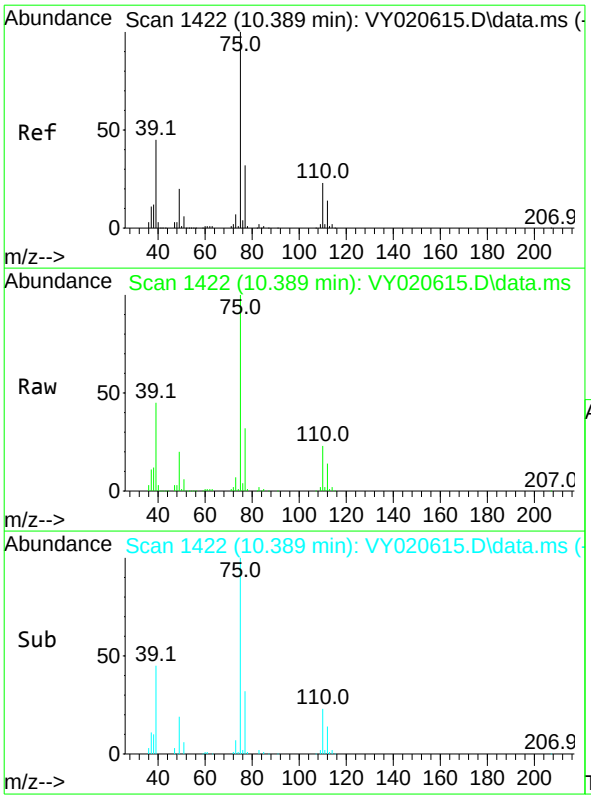



#52
Toluene
Concen: 49.846 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 92 Resp: 307082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.7 | 137.4 | 206.0 |

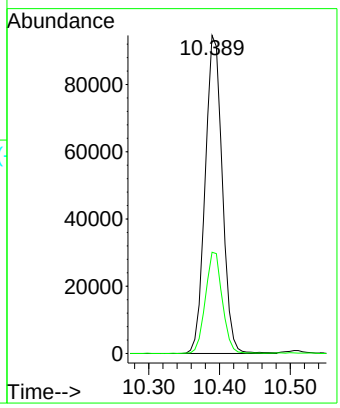





#53
t-1,3-Dichloropropene
Concen: 51.442 ug/l
RT: 10.389 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 75 Resp: 158536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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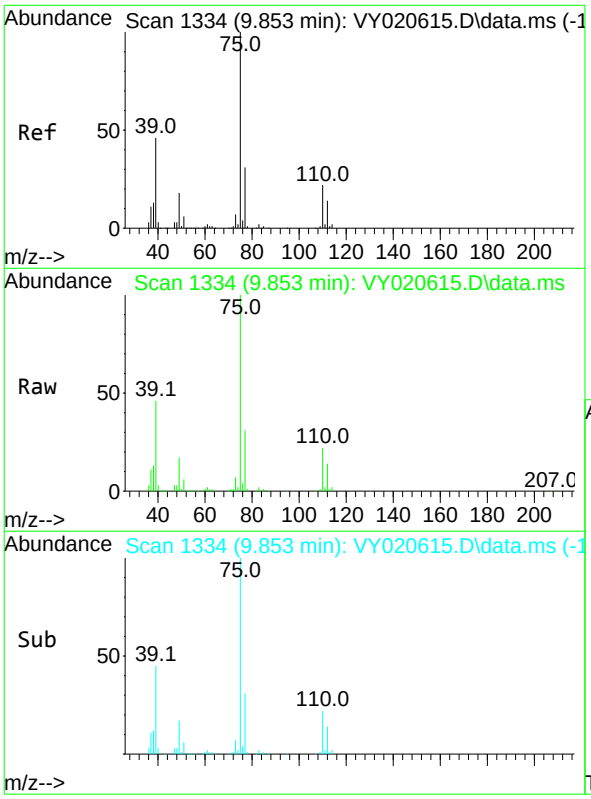
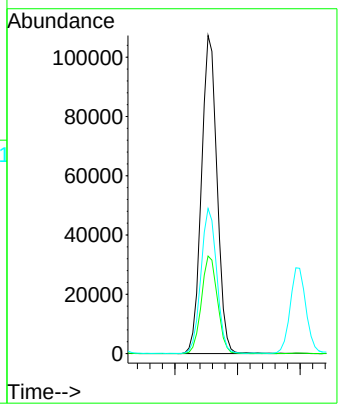
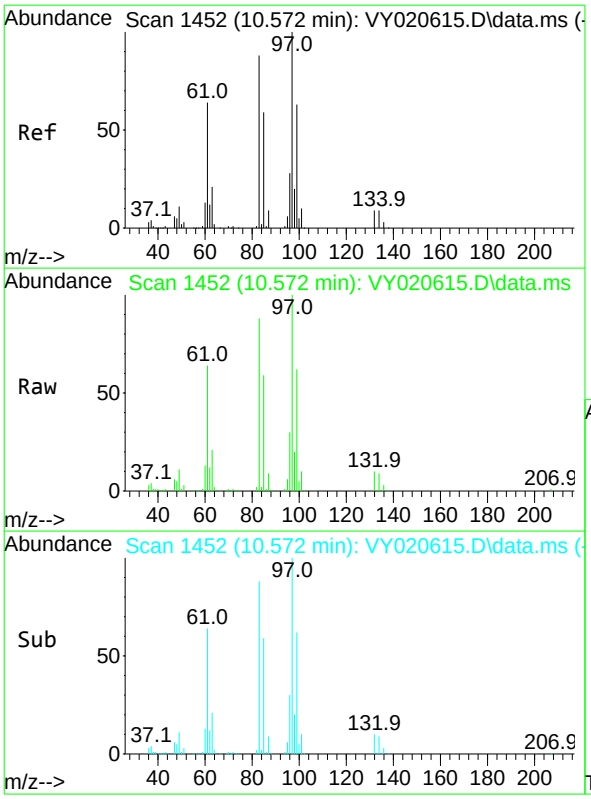



#54
cis-1,3-Dichloropropene
Concen: 50.849 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 75 Resp: 185696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.7 | 24.6 | 36.8 |
| 39 | 45.5 | 36.4 | 54.6 |

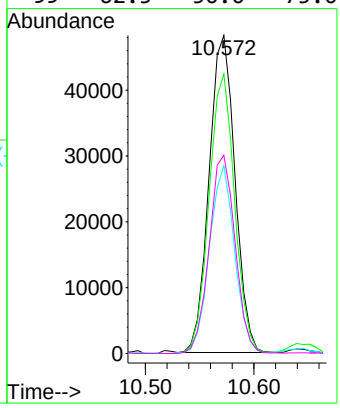





#55
1,1,2-Trichloroethane
Concen: 49.318 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 97 Resp: 79837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.0 | 70.4 | 105.6 |
| 85 | 59.0 | 47.2 | 70.8 |
| 99 | 62.5 | 50.0 | 75.0 |




**Instrument :**
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VSTDICCC050

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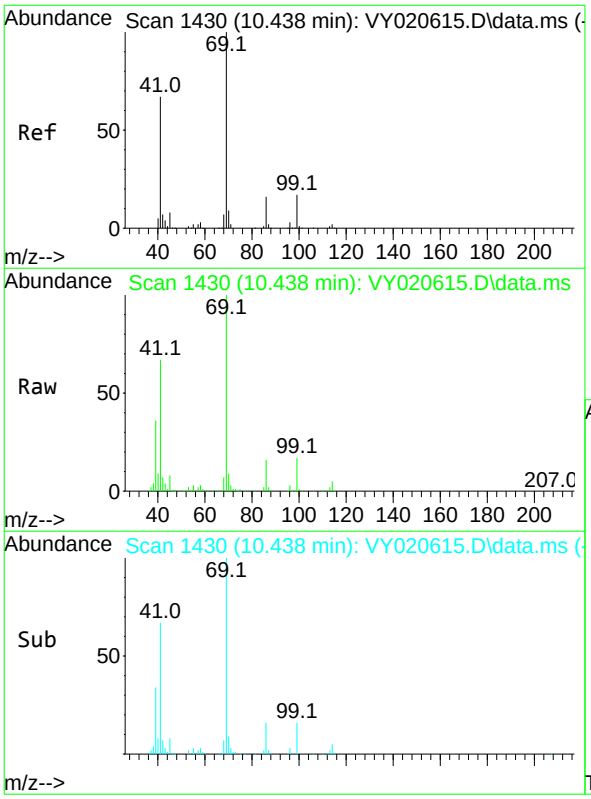
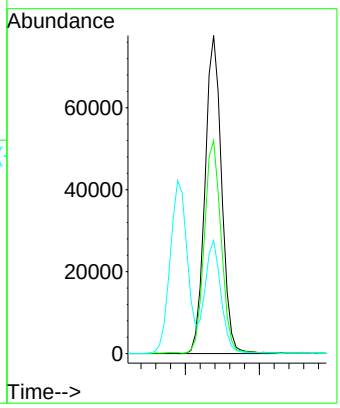
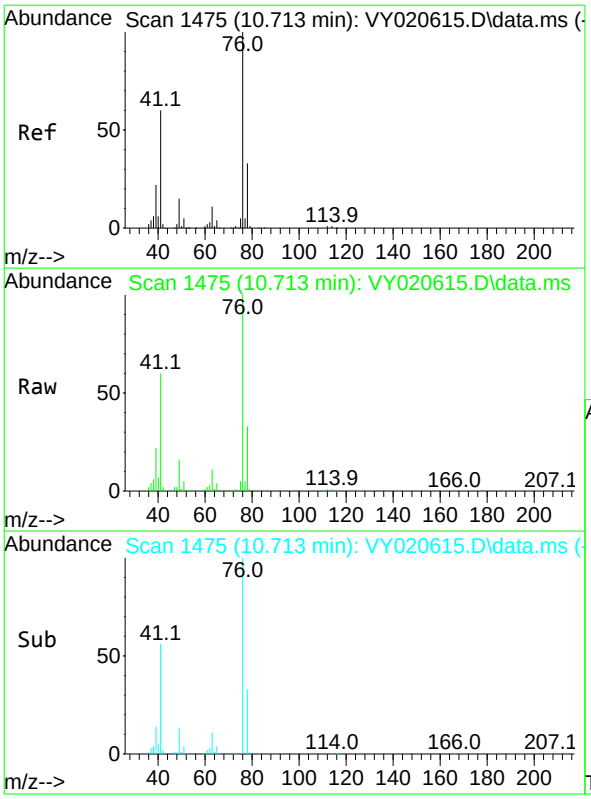



#56
Ethyl methacrylate
Concen: 51.535 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 69 Resp: 121030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 67.5 | 54.0 | 81.0 |
| 39 | 34.9 | 27.9 | 41.9 |

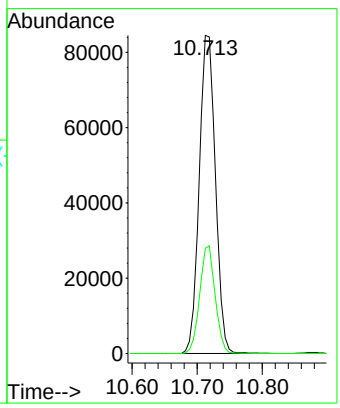





#57
1,3-Dichloropropane
Concen: 50.611 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 76 Resp: 146053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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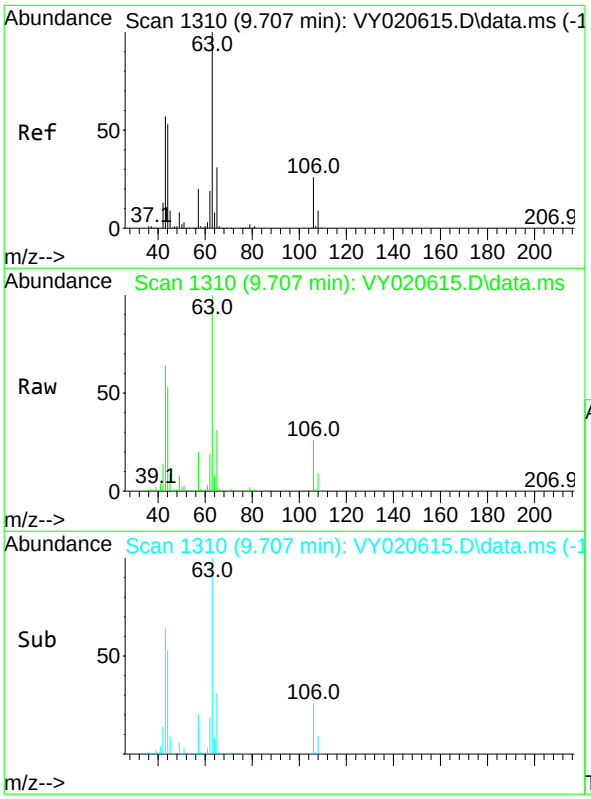
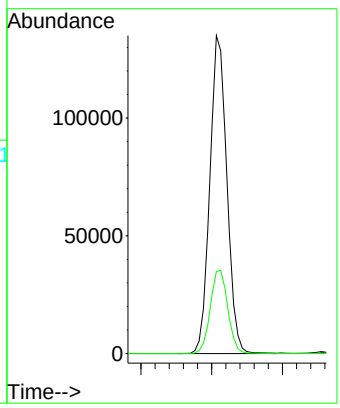
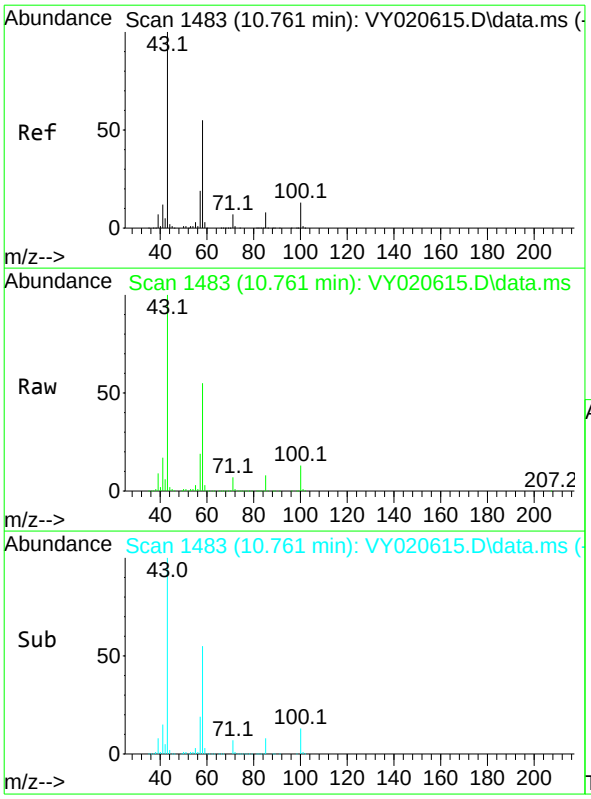



#58
2-Chloroethyl Vinyl ether
Concen: 228.767 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 63 Resp: 226061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.9 | 21.5 | 32.3 |

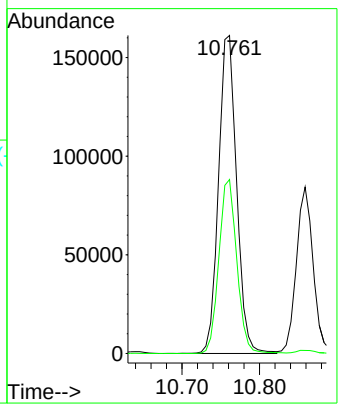





#59
2-Hexanone
Concen: 256.048 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 261334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.4 | 27.2 | 81.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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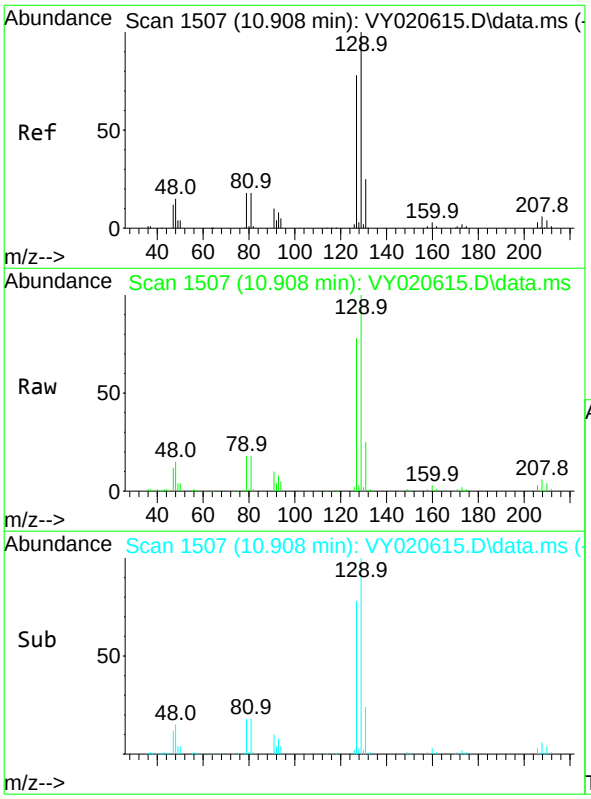
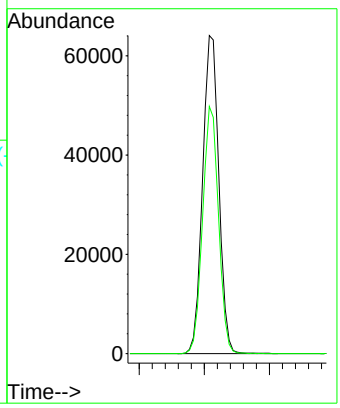
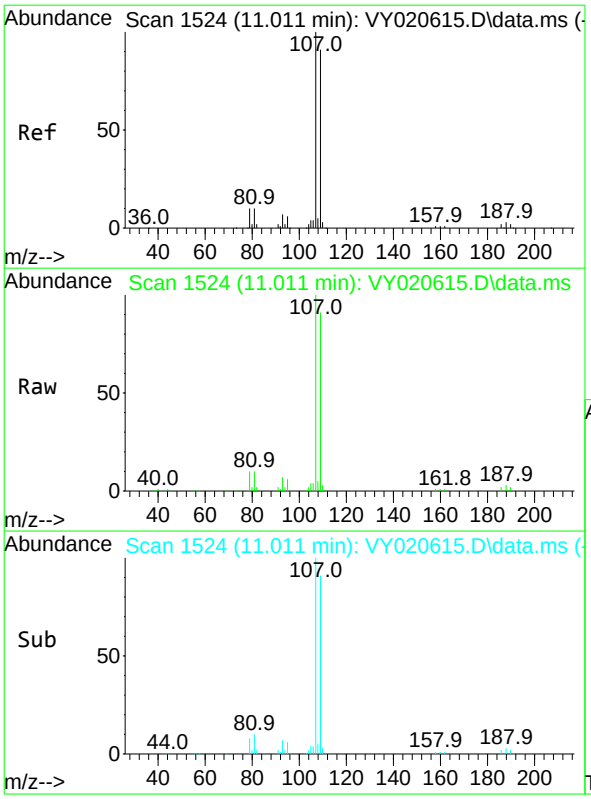



#60
Dibromochloromethane
Concen: 51.085 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:129 Resp: 110597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.2 | 38.1 | 114.3 |






#61
1,2-Dibromoethane
Concen: 50.346 ug/l
RT: 11.011 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:107 Resp: 75811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.3 | 75.4 | 113.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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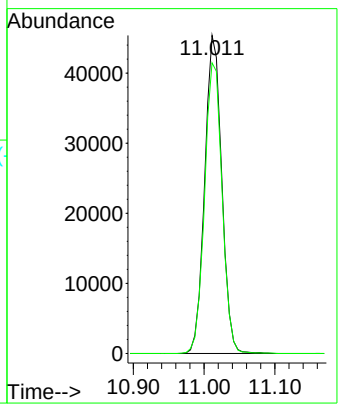
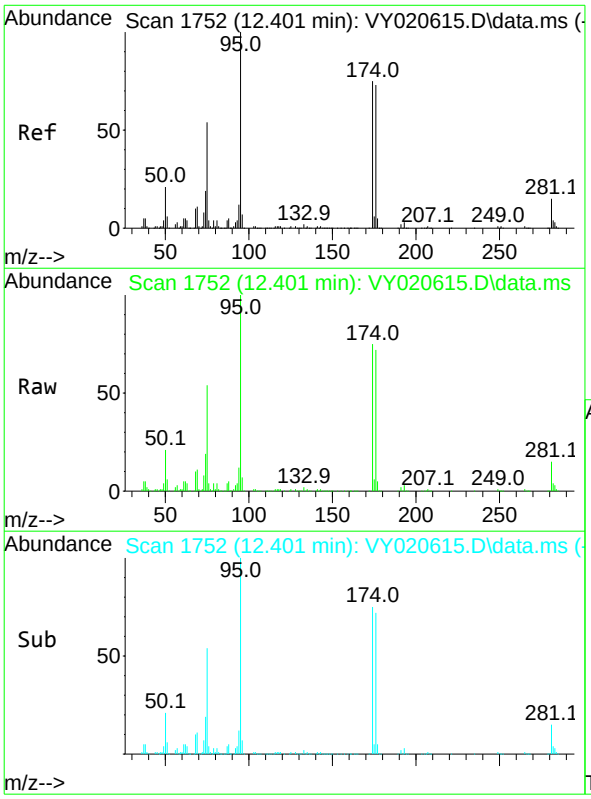
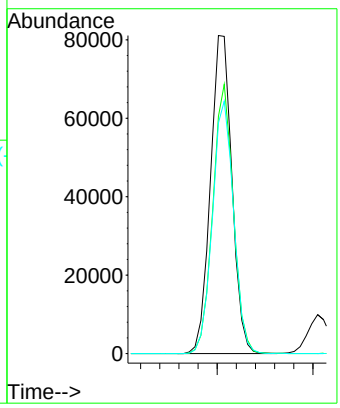


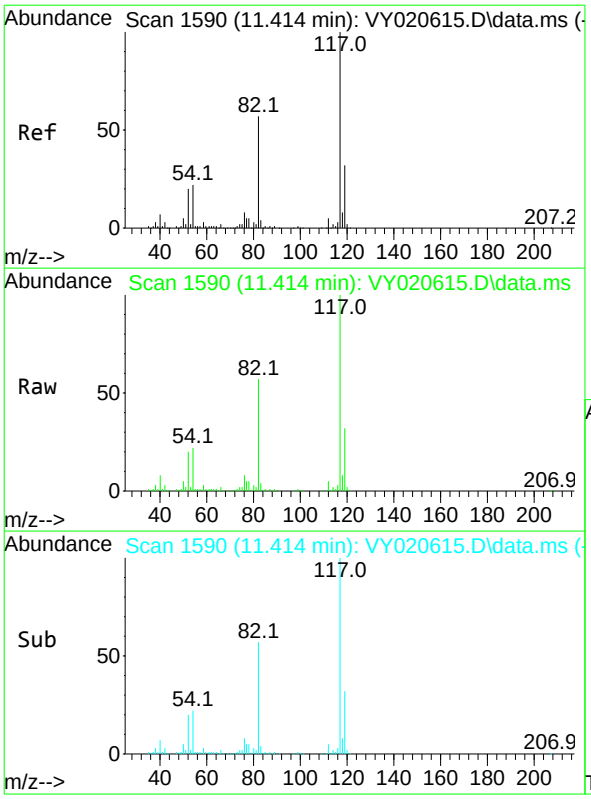




#62
4-Bromofluorobenzene
Concen: 49.707 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 95 Resp: 126226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.9 | 0.0 | 161.8 |
| 176 | 78.3 | 0.0 | 156.6 |

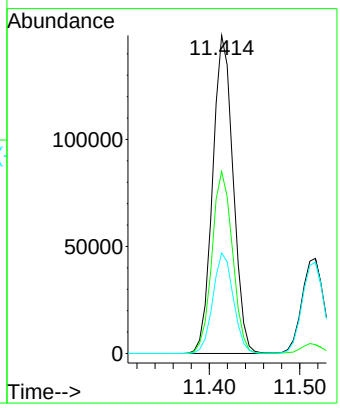





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:117 Resp: 234325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.2 | 45.8 | 68.6 |
| 119 | 31.6 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
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VSTDICCC050

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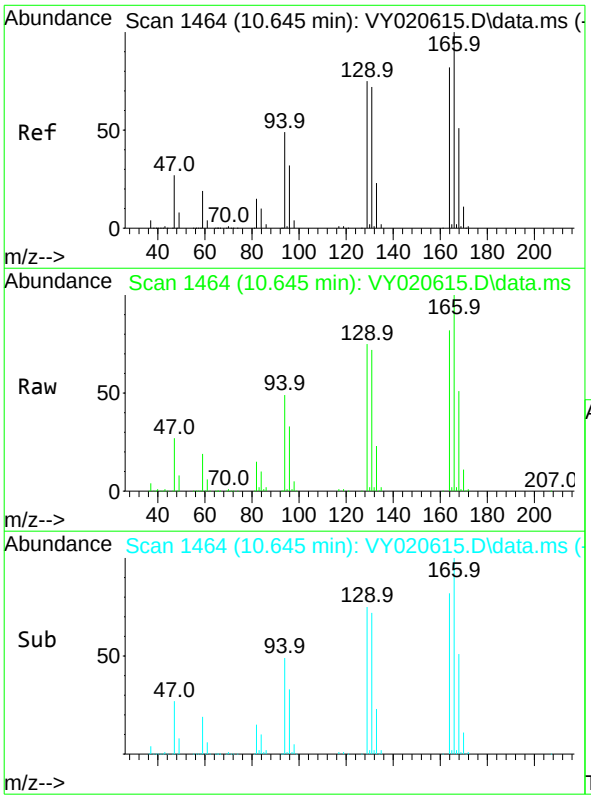
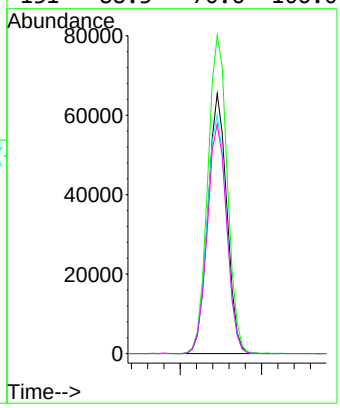
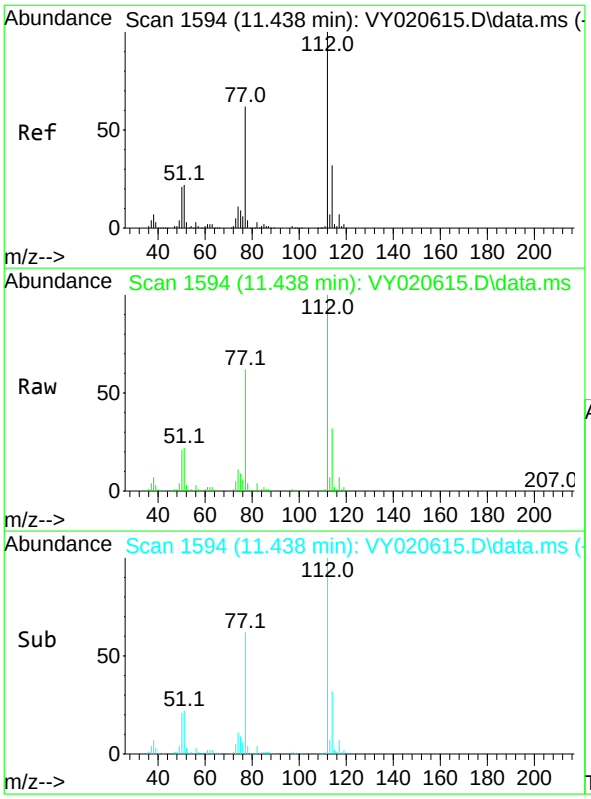



#64
Tetrachloroethene
Concen: 48.065 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:164 Resp: 105939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.4 | 97.9 | 146.9 |
| 129 | 91.7 | 73.4 | 110.0 |
| 131 | 88.3 | 70.6 | 106.0 |

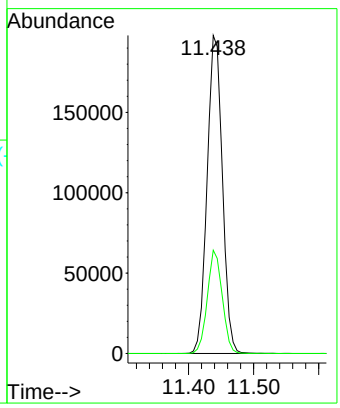





#65
Chlorobenzene
Concen: 49.154 ug/l
RT: 11.438 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:112 Resp: 322053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.5 | 26.0 | 39.0 |




**Instrument :**
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**ClientSampleId :**
VSTDICCC050

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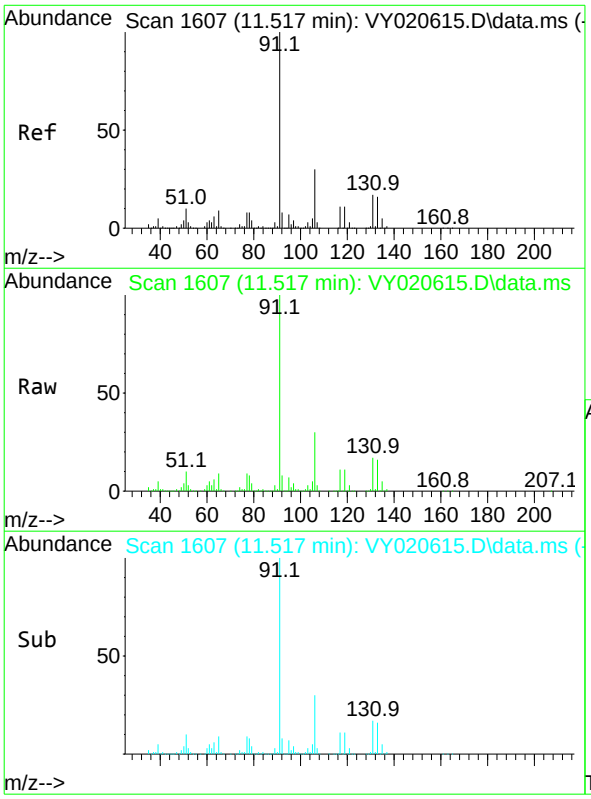
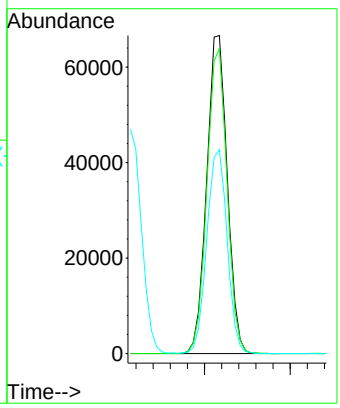
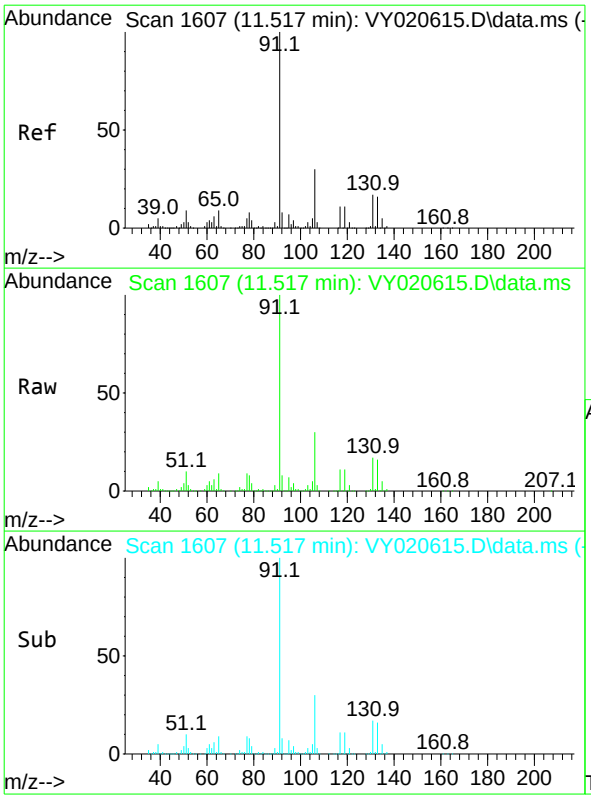



#66
1,1,1,2-Tetrachloroethane
Concen: 49.571 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:131 Resp: 111060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.5 | 46.8 | 140.3 |
| 119 | 63.5 | 31.8 | 95.3 |

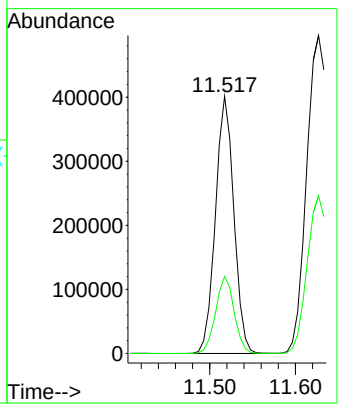





#67
Ethyl Benzene
Concen: 49.546 ug/l
RT: 11.517 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 91 Resp: 598896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.9 | 23.9 | 35.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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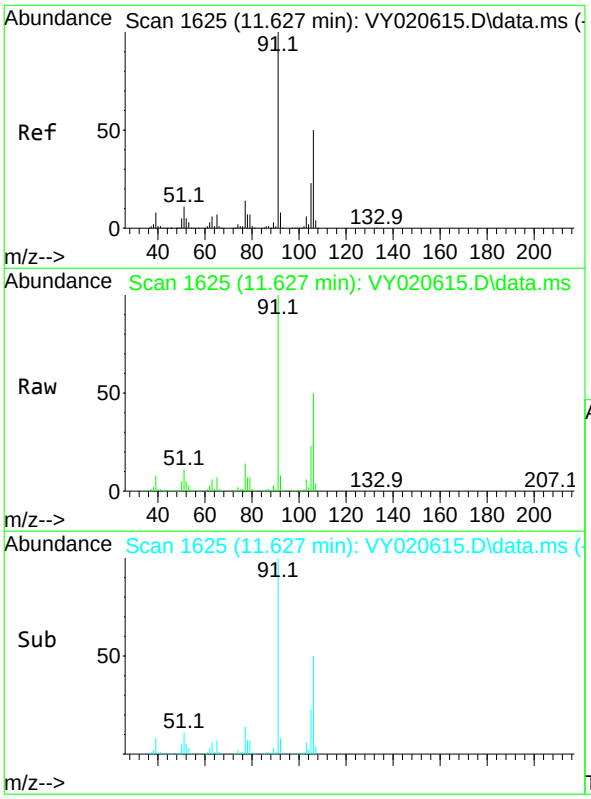
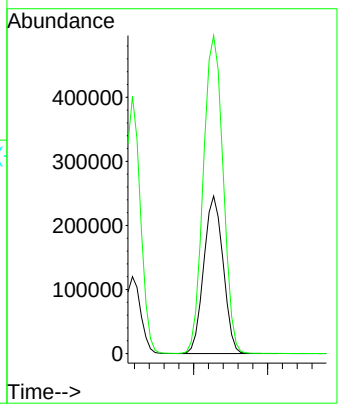
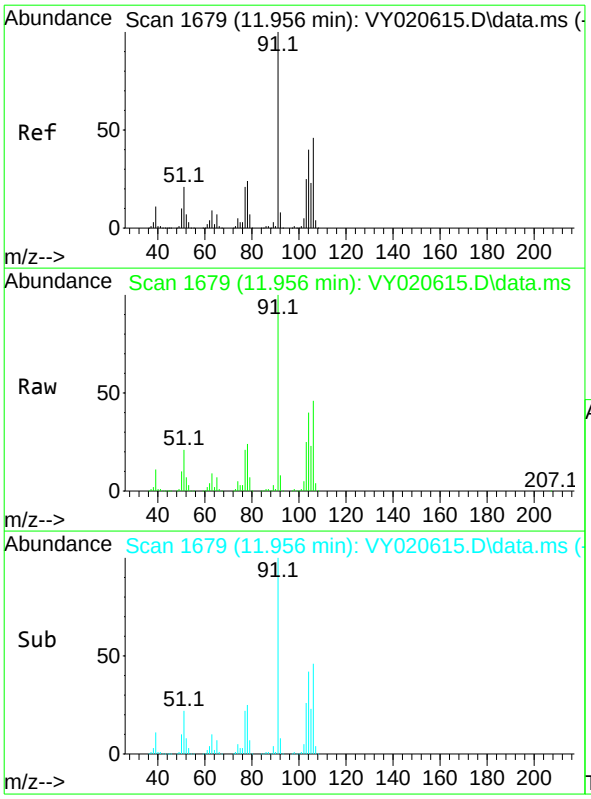



#68
m/p-Xylenes
Concen: 99.408 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:106 Resp: 446771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.2 | 165.0 | 247.4 |

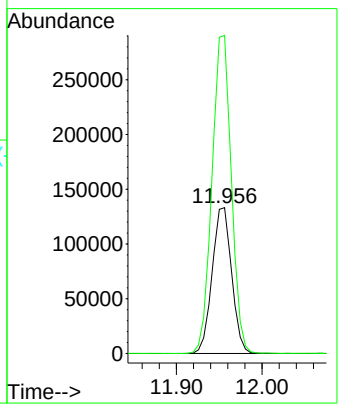





#69
o-Xylene
Concen: 50.198 ug/l
RT: 11.956 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:106 Resp: 210499

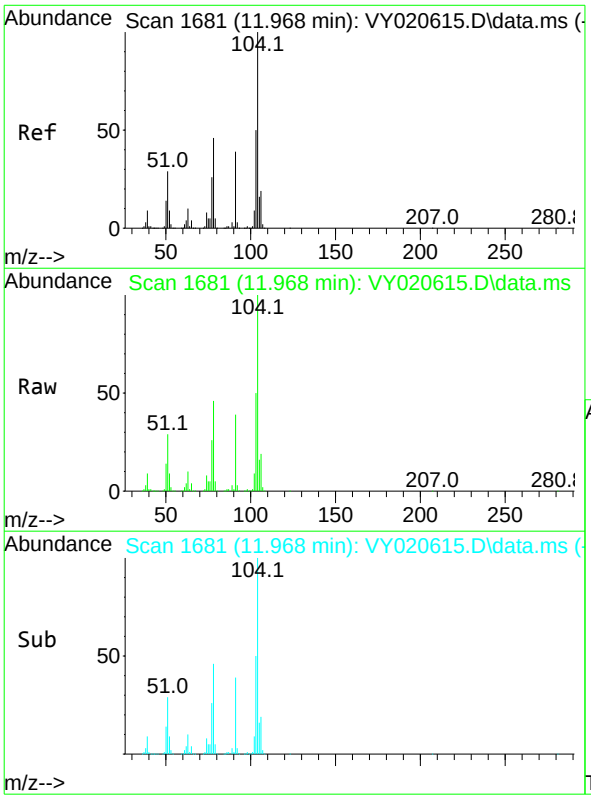
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.8 | 108.4 | 325.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

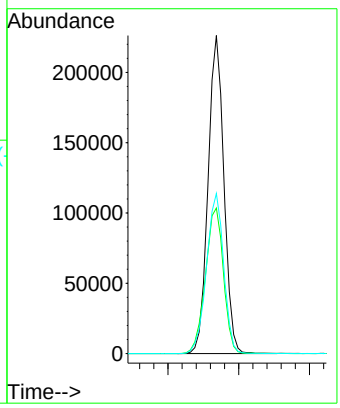
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

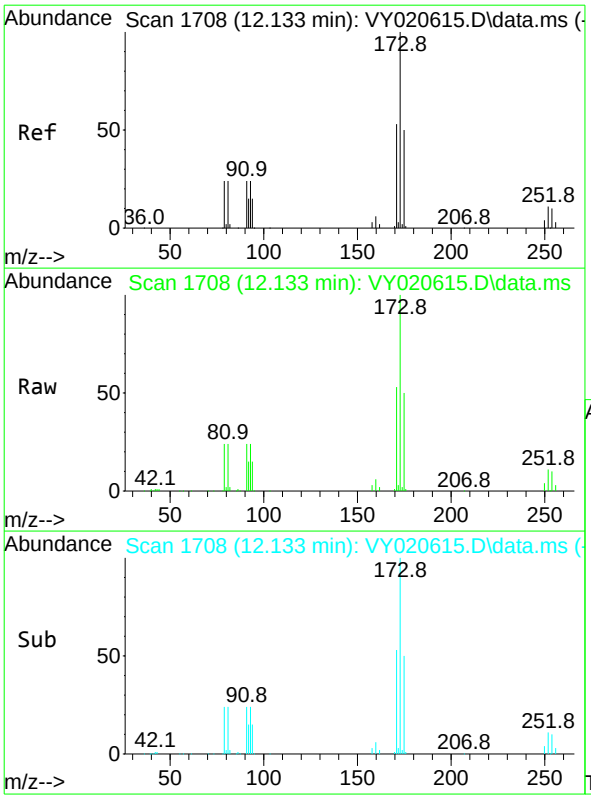



#70
Styrene
Concen: 50.222 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:104 Resp: 351858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.0 | 41.6 | 62.4 |
| 103 | 54.6 | 43.7 | 65.5 |

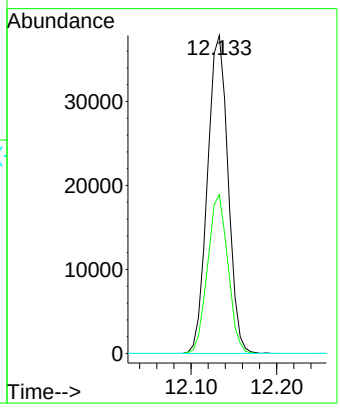





#71
Bromoform
Concen: 50.171 ug/l
RT: 12.133 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:173 Resp: 63198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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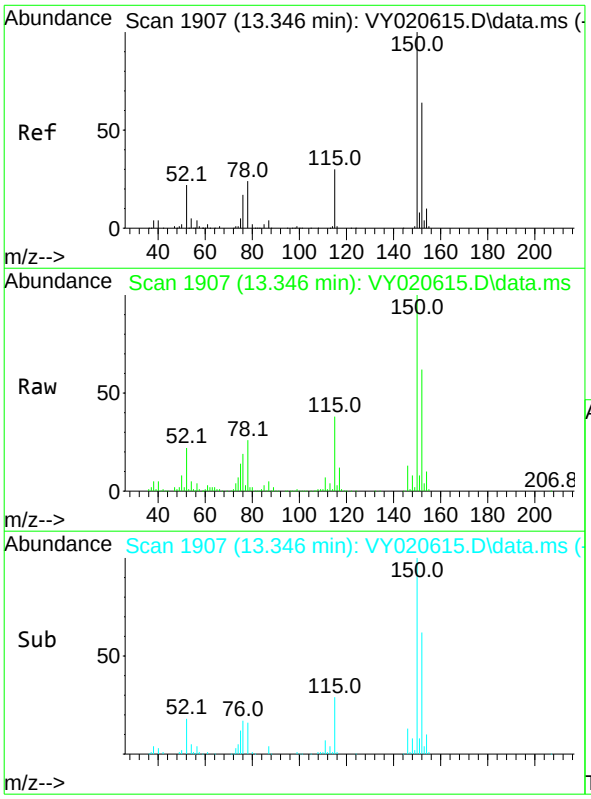
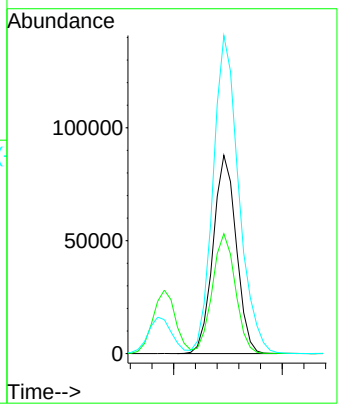
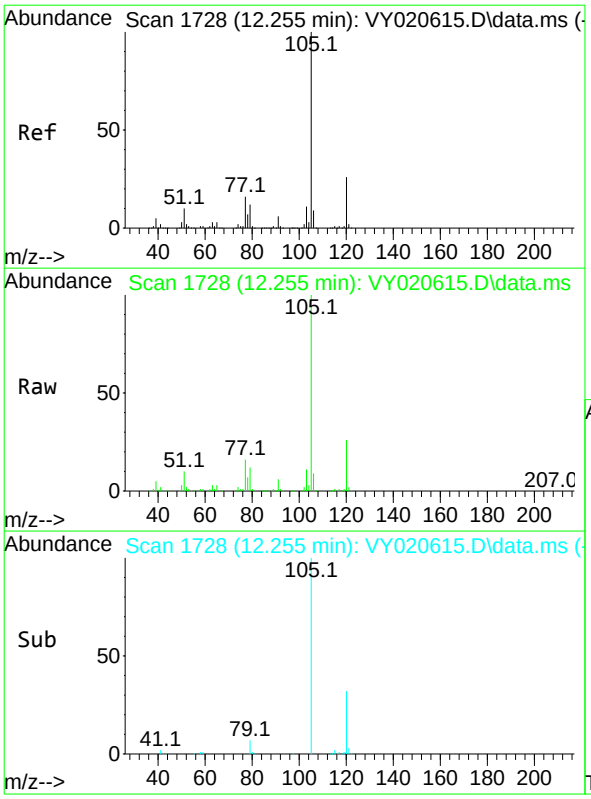



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:152 Resp: 130092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.4 | 30.2 | 90.6 |
| 150 | 177.7 | 0.0 | 355.4 |

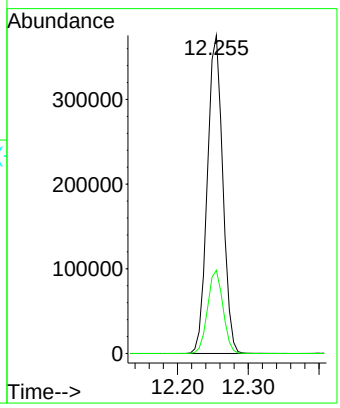





#73
Isopropylbenzene
Concen: 49.914 ug/l
RT: 12.255 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:105 Resp: 566646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |




**Instrument :**
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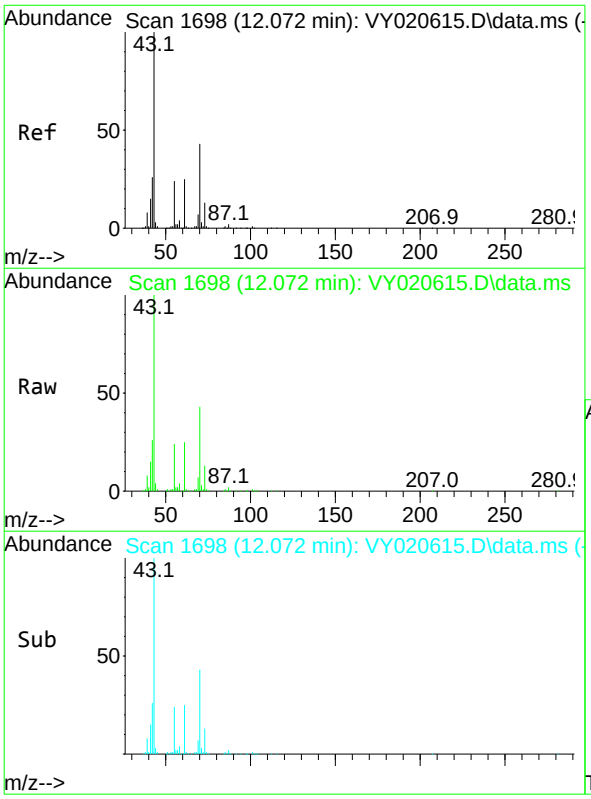
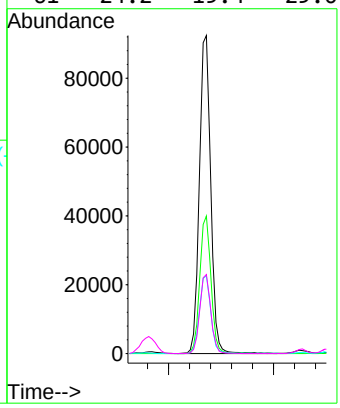
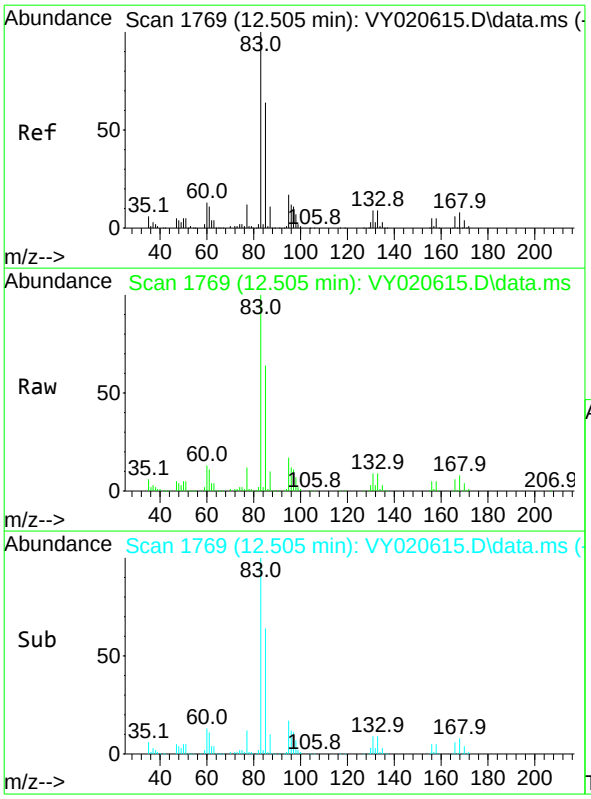



#74
N-amyl acetate
Concen: 52.254 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 138830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.7 | 34.2 | 51.2 |
| 55 | 24.5 | 19.6 | 29.4 |
| 61 | 24.2 | 19.4 | 29.0 |

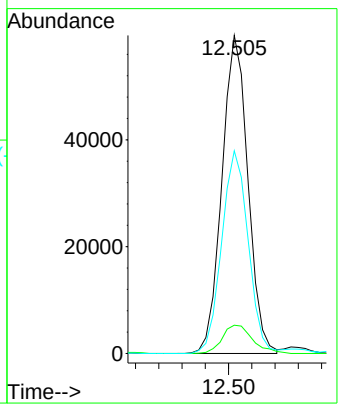





#75
1,1,2,2-Tetrachloroethane
Concen: 50.115 ug/l
RT: 12.505 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 83 Resp: 92349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 5.2 | 15.6 |
| 85 | 64.9 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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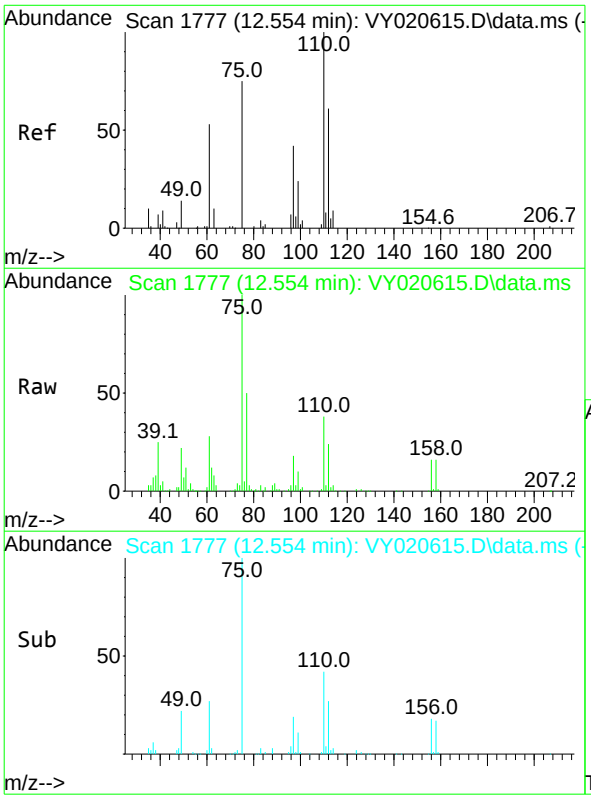
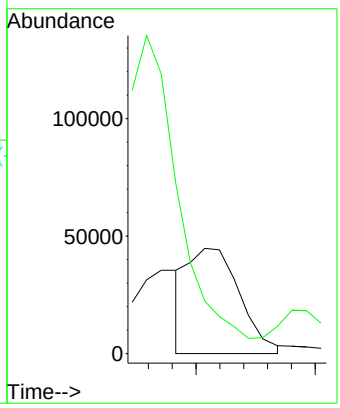
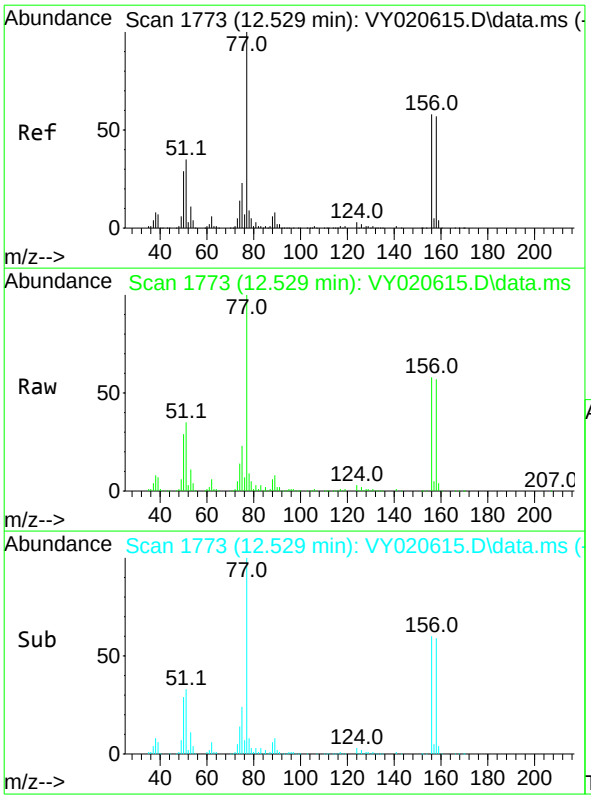



#76
1,2,3-Trichloropropane
Concen: 50.656 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 75 Resp: 67873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

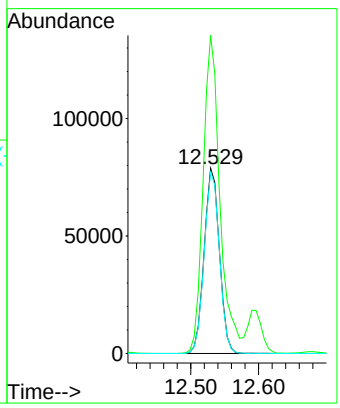





#77
Bromobenzene
Concen: 49.842 ug/l
RT: 12.529 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:156 Resp: 123256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 188.3 | 94.2 | 282.4 |
| 158 | 97.7 | 48.9 | 146.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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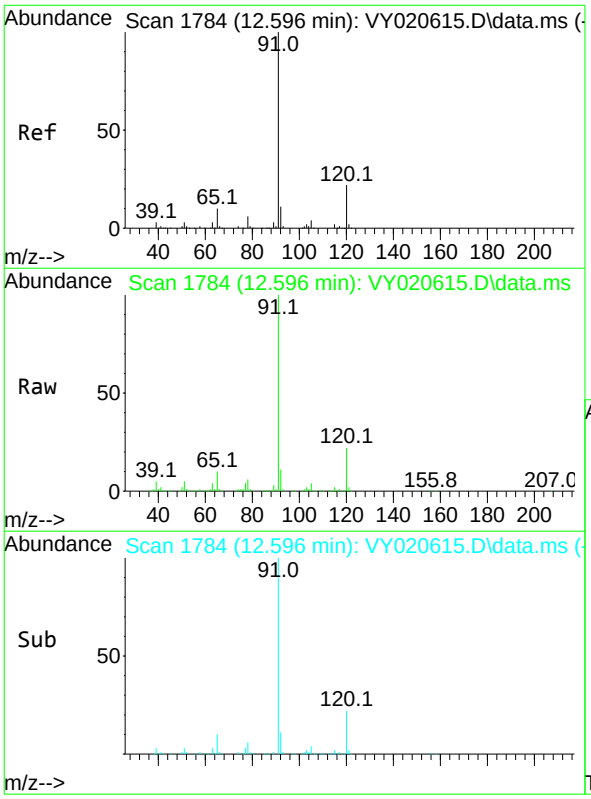
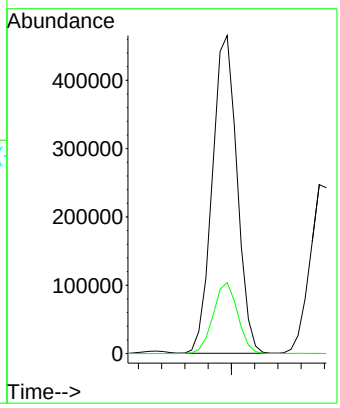
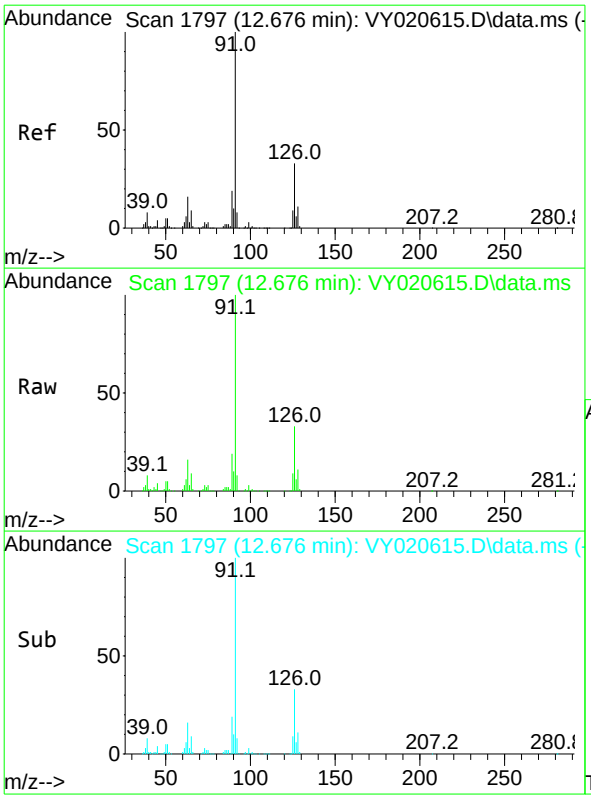



#78
n-propylbenzene
Concen: 50.251 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 91 Resp: 687319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.1 | 11.1 | 33.1 |

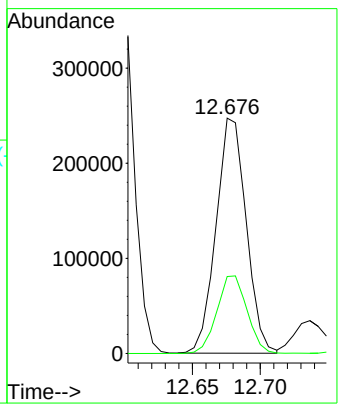





#79
2-Chlorotoluene
Concen: 49.707 ug/l
RT: 12.676 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 91 Resp: 382511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.1 | 16.6 | 49.7 |




**Instrument :**
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**ClientSampleId :**
VSTDICCC050

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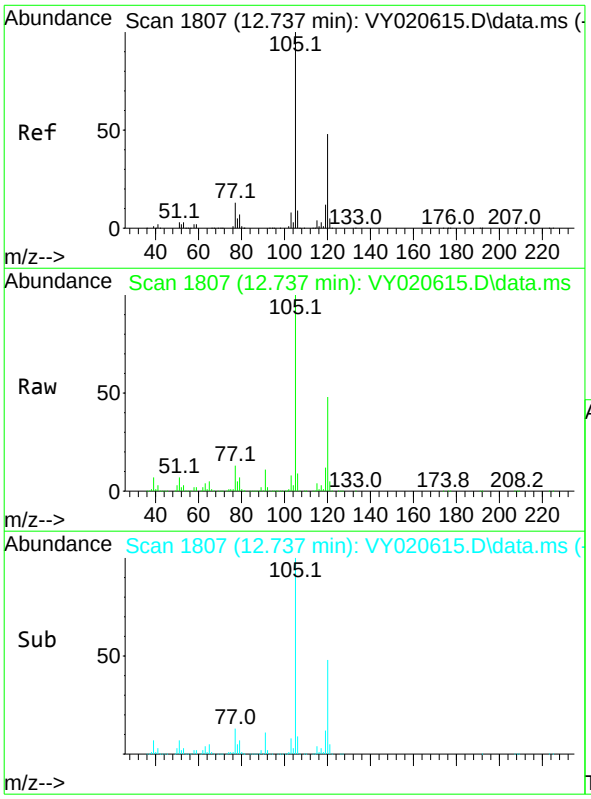
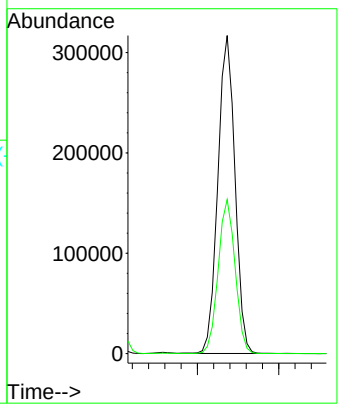
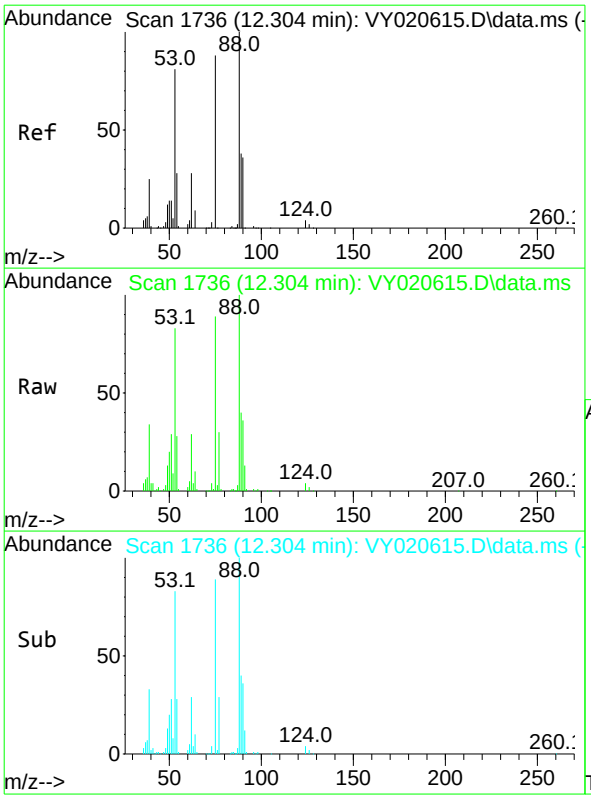



#80
1,3,5-Trimethylbenzene
Concen: 50.279 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:105 Resp: 463155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |

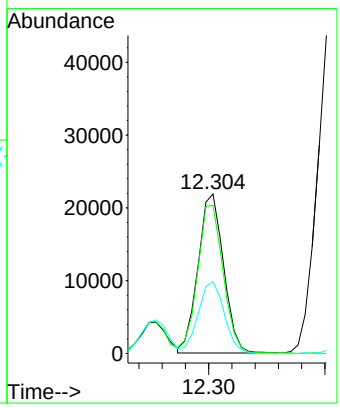





#81
trans-1,4-Dichloro-2-butene
Concen: 51.816 ug/l
RT: 12.304 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 75 Resp: 33360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 94.3 | 75.4 | 113.2 |
| 89 | 46.2 | 37.0 | 55.4 |




**Instrument :**
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**ClientSampleId :**
VSTDICCC050

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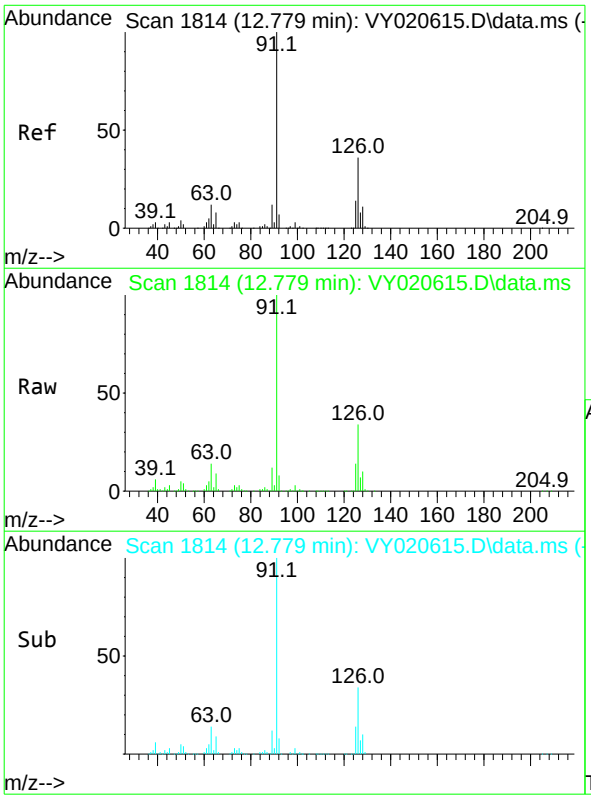
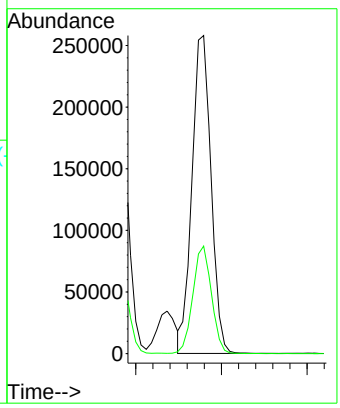
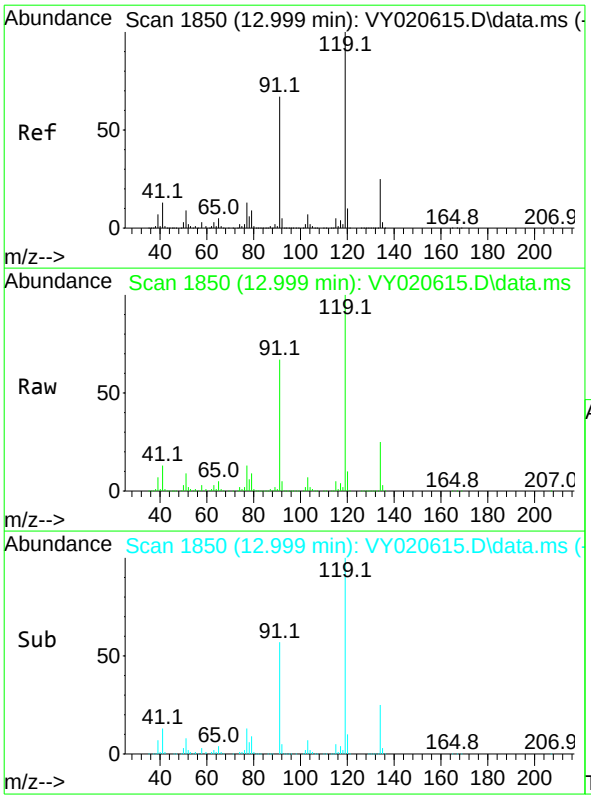



#82
4-Chlorotoluene
Concen: 49.848 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 91 Resp: 397958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.1 | 16.6 | 49.7 |

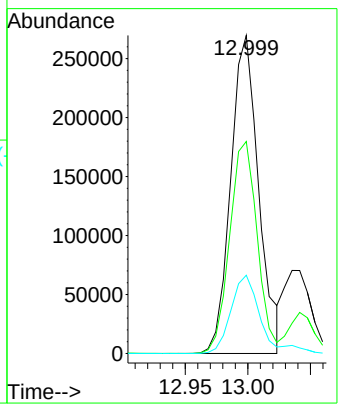





#83
tert-Butylbenzene
Concen: 50.127 ug/l
RT: 12.999 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:119 Resp: 418182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.7 | 32.9 | 98.6 |
| 134 | 26.1 | 13.1 | 39.1 |

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VSTDICCC050

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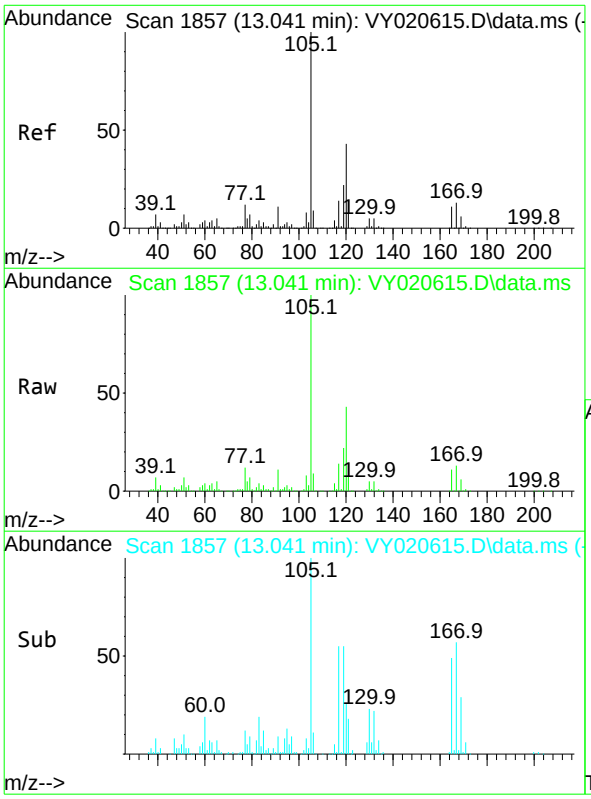
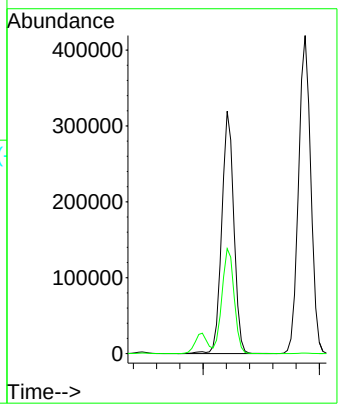
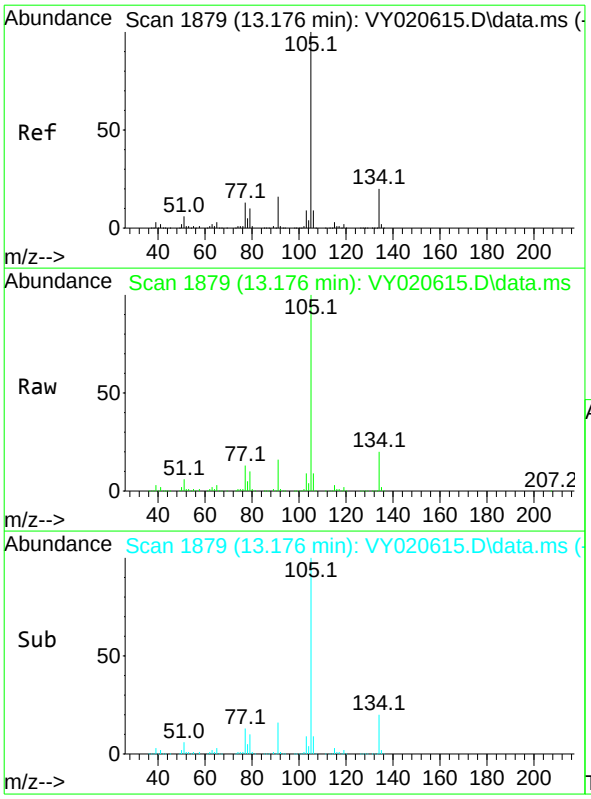



#84
1,2,4-Trimethylbenzene
Concen: 50.907 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:105 Resp: 459974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.6 | 21.8 | 65.4 |

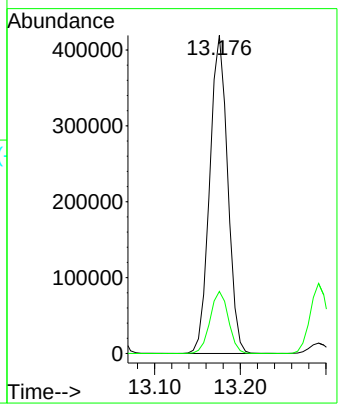





#85
sec-Butylbenzene
Concen: 50.301 ug/l
RT: 13.176 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:105 Resp: 610142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.0 | 10.0 | 30.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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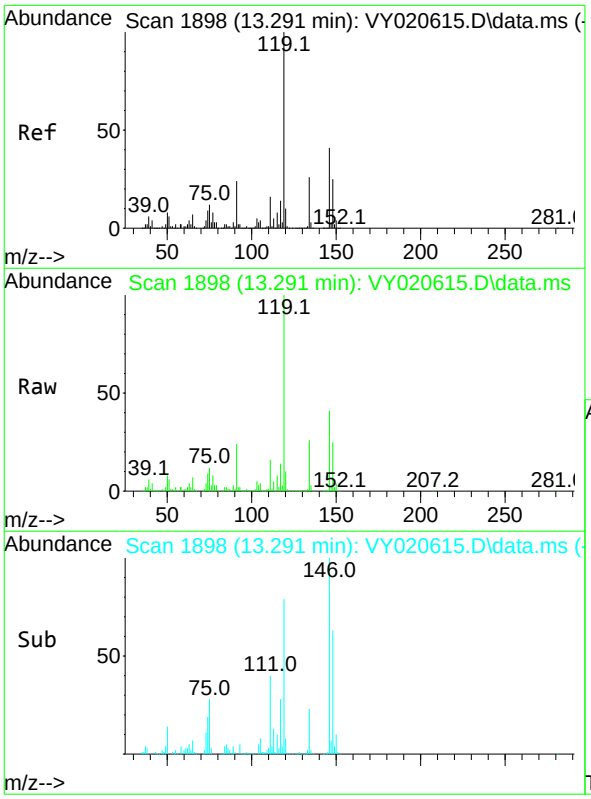
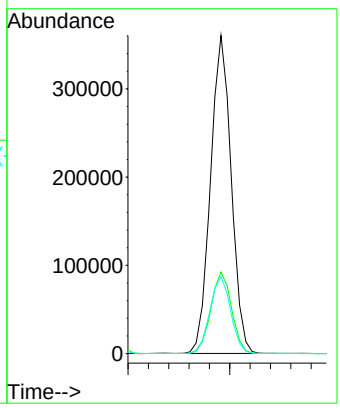
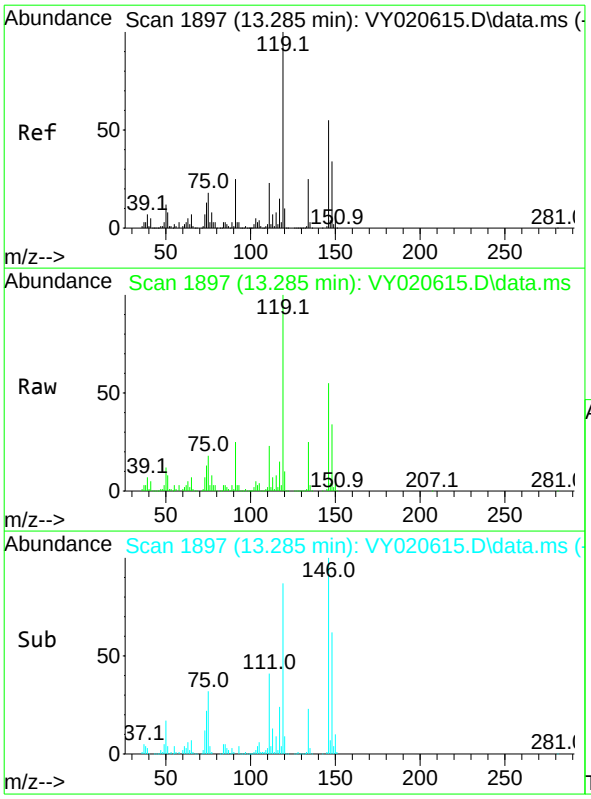



#86
p-Isopropyltoluene
Concen: 50.941 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:119 Resp: 509445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.9 | 38.6 |
| 91 | 24.2 | 12.1 | 36.3 |

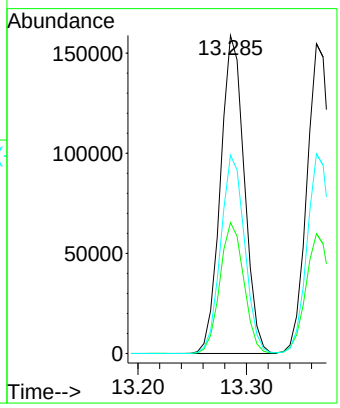





#87
1,3-Dichlorobenzene
Concen: 49.677 ug/l
RT: 13.285 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:146 Resp: 242502

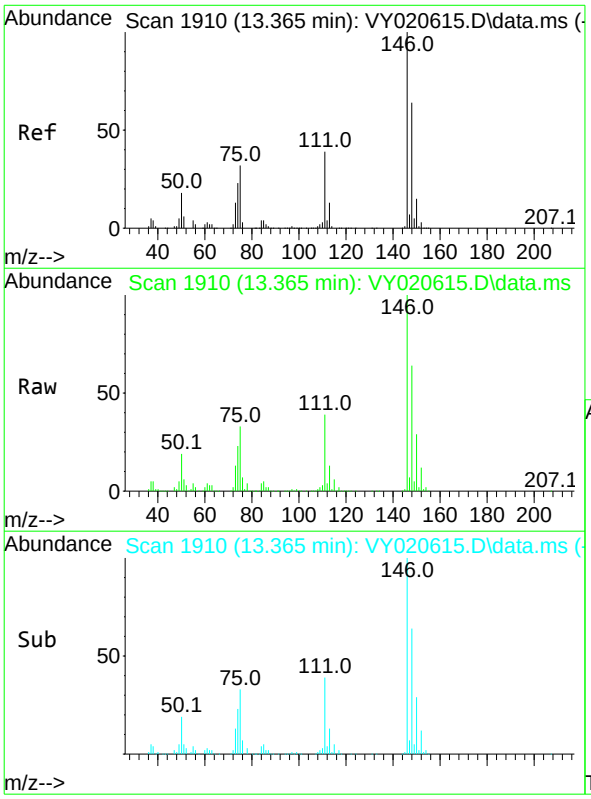
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.2 | 20.6 | 61.8 |
| 148 | 62.7 | 31.4 | 94.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

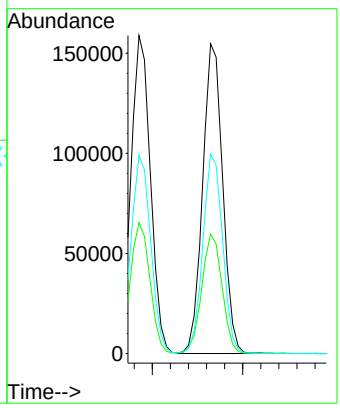
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

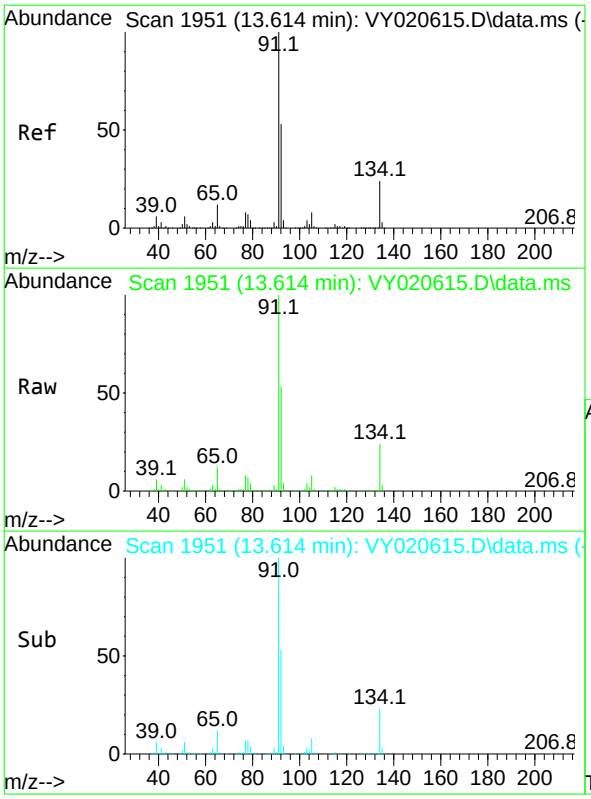



#88
1,4-Dichlorobenzene
Concen: 49.281 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:146 Resp: 238266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 19.6 | 58.7 |
| 148 | 63.7 | 31.9 | 95.5 |

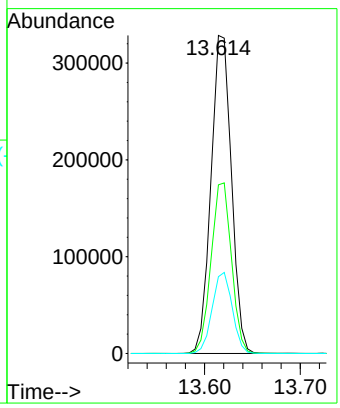





#89
n-Butylbenzene
Concen: 51.461 ug/l
RT: 13.614 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 91 Resp: 487742

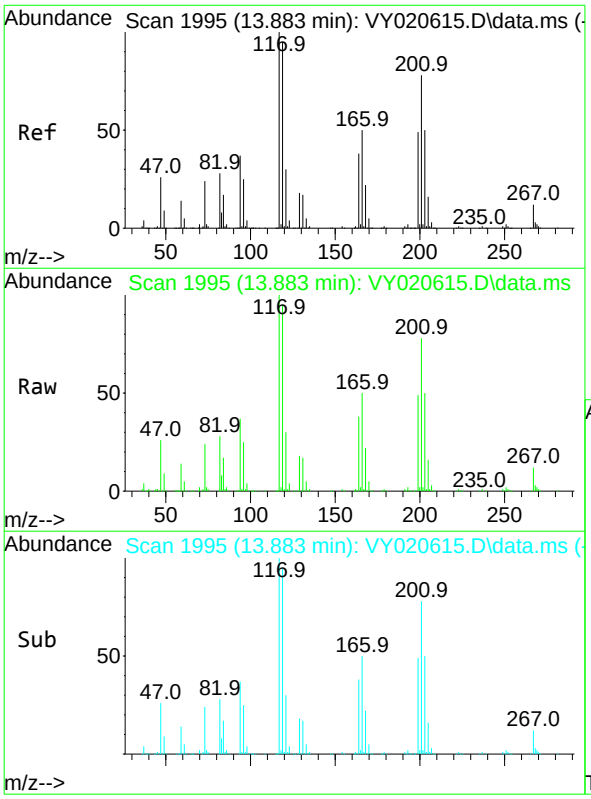
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.6 | 26.8 | 80.4 |
| 134 | 25.0 | 12.5 | 37.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

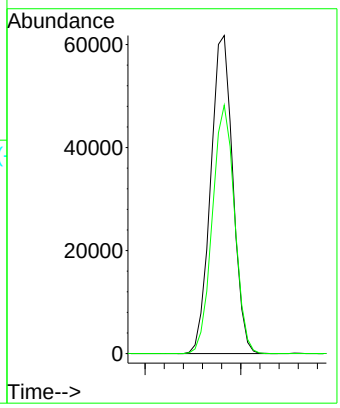
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

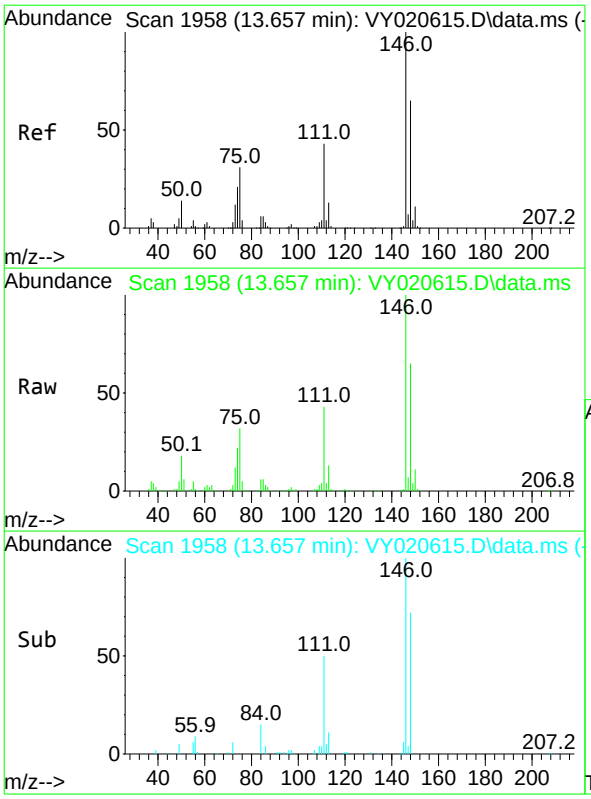



#90
Hexachloroethane
Concen: 50.134 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:117 Resp: 99360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.2 | 39.1 | 117.3 |

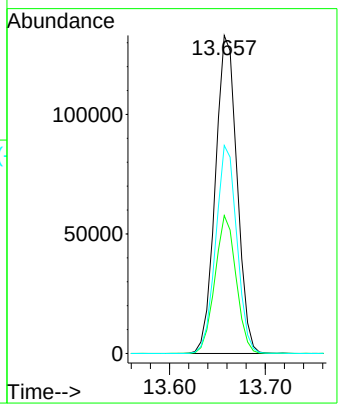





#91
1,2-Dichlorobenzene
Concen: 49.409 ug/l
RT: 13.657 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:146 Resp: 208977

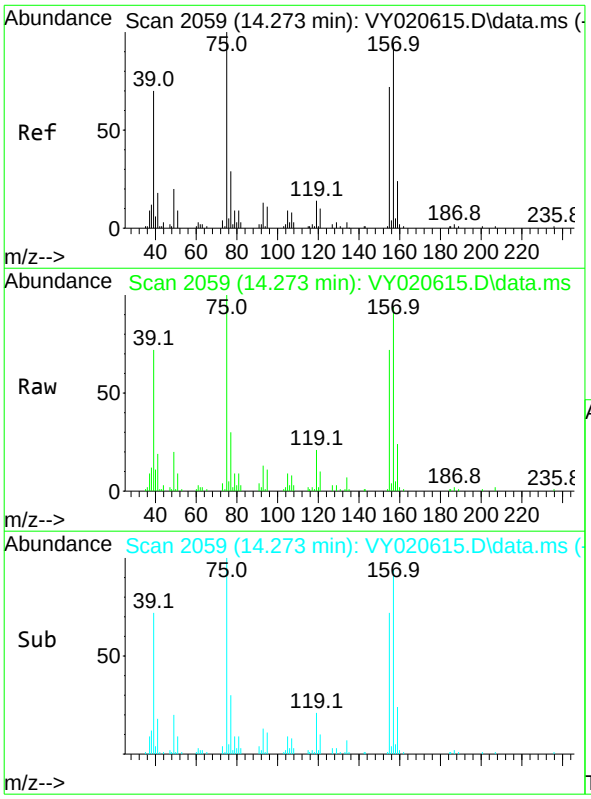
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.5 | 21.3 | 63.7 |
| 148 | 64.0 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

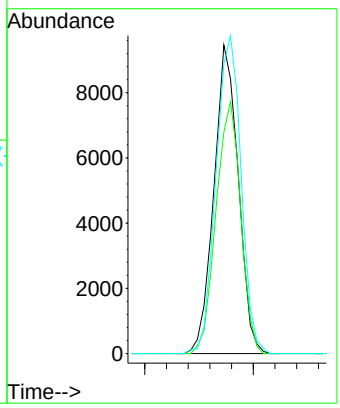
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

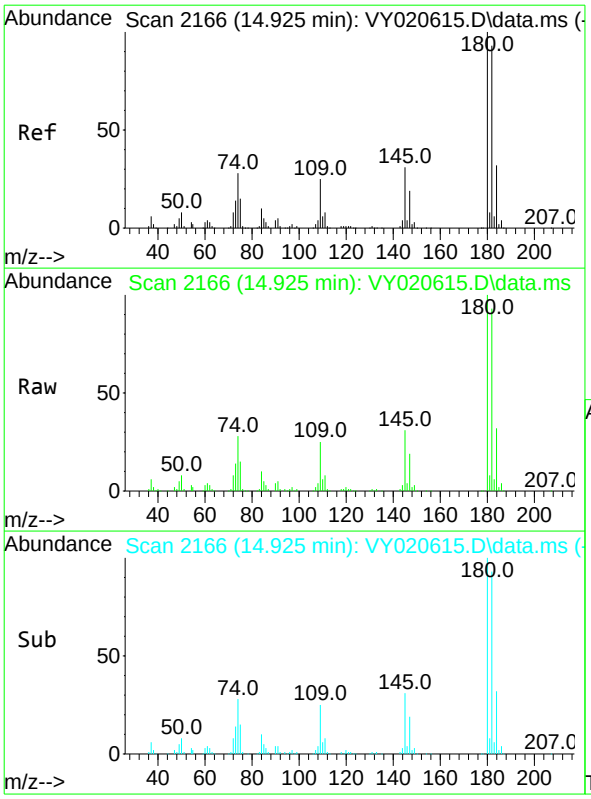



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.268 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 75 Resp: 14740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.2 | 41.1 | 123.3 |
| 157 | 105.9 | 52.9 | 158.8 |

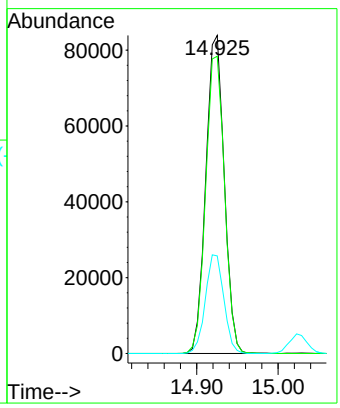





#93
1,2,4-Trichlorobenzene
Concen: 51.538 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:180 Resp: 131852

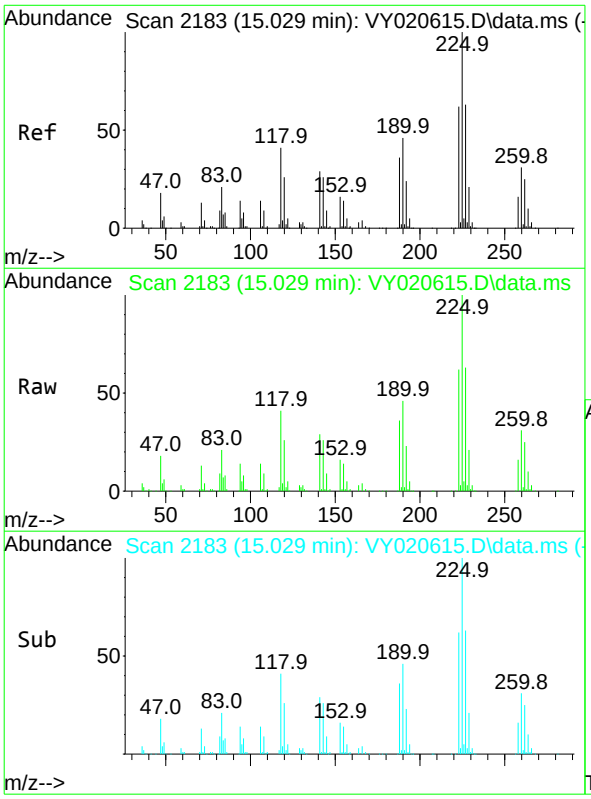
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 47.9 | 143.6 |
| 145 | 31.1 | 15.6 | 46.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

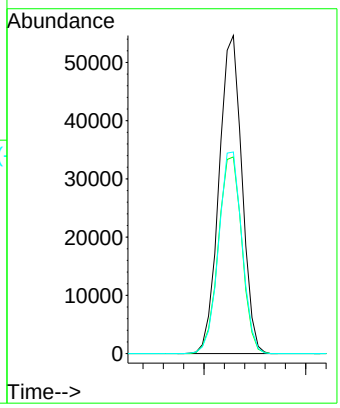
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

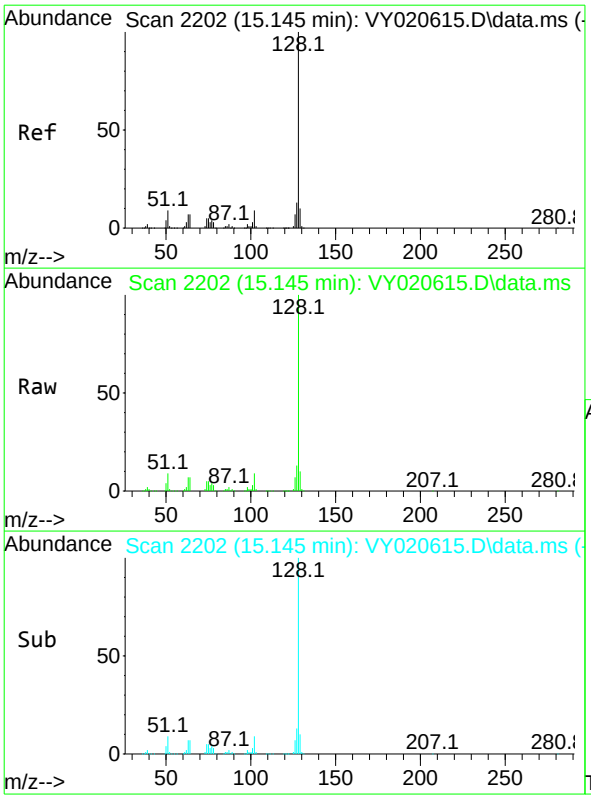



#94
Hexachlorobutadiene
Concen: 51.117 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:225 Resp: 85490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 31.8 | 95.3 |
| 227 | 64.4 | 32.2 | 96.6 |

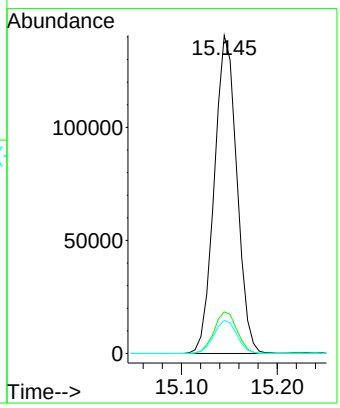





#95
Naphthalene
Concen: 52.434 ug/l
RT: 15.145 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:128 Resp: 229979

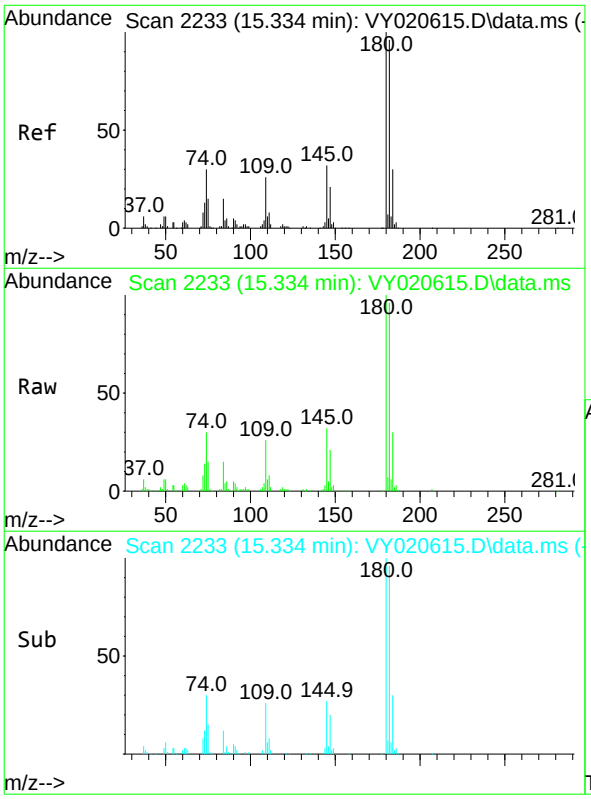
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.7 | 16.1 |
| 129 | 10.6 | 8.5 | 12.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

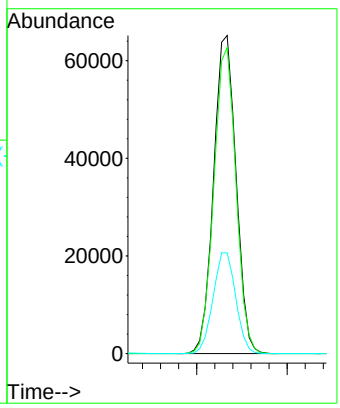
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024




#96
1,2,3-Trichlorobenzene
Concen: 51.976 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:180 Resp: 112349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.6 | 47.3 | 141.9 |
| 145 | 32.0 | 16.0 | 48.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 175469 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 270859 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.413 | 117 | 241570 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 134321 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.060 | 65 | 177978 | 92.612 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 185.220%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 175849 | 92.118 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 184.240%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 619412 | 92.704 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 185.400%# | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 234353 | 89.665 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 179.320%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.866 | 85 | 210949 | 96.249 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 149471 | 92.044 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 154262 | 102.062 | ug/l | 99 |
| 5) Bromomethane | 2.586 | 94 | 98824 | 101.715 | ug/l | 97 |
| 6) Chloroethane | 2.732 | 64 | 95621 | 102.376 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 308242 | 97.464 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 110471 | 99.599 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.811 | 101 | 227753 | 100.469 | ug/l | 99 |
| 10) Methyl Iodide | 4.000 | 142 | 272999 | 108.168 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 92710 | 533.746 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 224015 | 101.847 | ug/l | 100 |
| 13) Acrolein | 3.653 | 56 | 32525 | 357.929 | ug/l | 98 |
| 14) Allyl chloride | 4.384 | 41 | 401452 | 104.161 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 268782 | 506.539 | ug/l | 99 |
| 16) Acetone | 3.872 | 43 | 192907 | 512.024 | ug/l | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 734236 | 102.553 | ug/l | 99 |
| 18) Methyl Acetate | 4.384 | 43 | 137166 | 104.906 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 579813 | 102.132 | ug/l | 98 |
| 20) Methylene Chloride | 4.610 | 84 | 233323 | 97.650 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 242695 | 98.365 | ug/l | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 777568 | 99.391 | ug/l | 96 |
| 23) Vinyl Acetate | 5.957 | 43 | 2271891 | 512.739 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.914 | 63 | 456073 | 99.510 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 341489 | 478.150 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 402163 | 92.822 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 279676 | 98.523 | ug/l | 99 |
| 28) Bromochloromethane | 7.243 | 49 | 175710 | 113.661 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.262 | 42 | 230877 | 512.090 | ug/l | 100 |
| 30) Chloroform | 7.420 | 83 | 457070 | 105.160 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 407104 | 92.899 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.615 | 97 | 415073 | 98.578 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 337138 | 96.854 | ug/l | 99 |
| 37) Ethyl Acetate | 6.981 | 43 | 160241 | 97.867 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 377406 | 97.998 | ug/l | 100 |
| 39) Methylcyclohexane | 9.109 | 83 | 440006 | 96.986 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 1000543 | 98.064 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 99381 | 114.810 ug/l # | 86 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 270045 | 99.793 ug/l | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 318902 | 102.879 ug/l | 99 |
| 44) Trichloroethene | 8.865 | 130 | 245474 | 97.912 ug/l | 99 |
| 45) 1,2-Dichloropropane | 9.139 | 63 | 238605 | 100.062 ug/l | 99 |
| 46) Dibromomethane | 9.231 | 93 | 126063 | 100.032 ug/l | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 339720 | 99.796 ug/l | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 154845 | 105.079 ug/l | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 29870 | 2066.774 ug/l | 97 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 814840 | 498.015 ug/l | 100 |
| 52) Toluene | 10.170 | 92 | 631368 | 99.573 ug/l | 100 |
| 53) t-1,3-Dichloropropene | 10.389 | 75 | 330795 | 104.287 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 386715 | 102.884 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 167205 | 100.352 ug/l | 95 |
| 56) Ethyl methacrylate | 10.438 | 69 | 263694 | 109.090 ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.712 | 76 | 299884 | 100.965 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.706 | 63 | 536306 | 527.303 ug/l | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 548285 | 521.929 ug/l | 99 |
| 60) Dibromochloromethane | 10.907 | 129 | 228154 | 102.389 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 156883 | 101.225 ug/l | 100 |
| 64) Tetrachloroethene | 10.645 | 164 | 215415 | 94.803 ug/l | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 667347 | 98.800 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 229790 | 99.489 ug/l | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1228775 | 98.607 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 910536 | 196.521 ug/l | 99 |
| 69) o-Xylene | 11.956 | 106 | 428727 | 99.174 ug/l | 97 |
| 70) Styrene | 11.968 | 104 | 725167 | 100.401 ug/l | 100 |
| 71) Bromoform | 12.133 | 173 | 131589 | 101.332 ug/l # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 1150948 | 98.191 ug/l | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 292377 | 106.582 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 190664 | 100.209 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 137213m | 99.183 ug/l | |
| 77) Bromobenzene | 12.529 | 156 | 253587 | 99.317 ug/l | 100 |
| 78) n-propylbenzene | 12.596 | 91 | 1383699 | 97.980 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.675 | 91 | 787764 | 99.147 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.736 | 105 | 933106 | 98.108 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 70365 | 105.852 ug/l | 100 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 804177 | 97.558 ug/l | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 853675 | 99.108 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 921051 | 98.727 ug/l | 99 |
| 85) sec-Butylbenzene | 13.175 | 105 | 1220465 | 97.450 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 1023181 | 99.089 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 492097 | 97.633 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.364 | 146 | 482756 | 96.707 ug/l | 99 |
| 89) n-Butylbenzene | 13.614 | 91 | 966758 | 98.789 ug/l | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 202399 | 98.910 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 430383 | 98.552 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 30584 | 99.008 ug/l | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 276806 | 104.790 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 170325 | 98.635 ug/l | 99 |
| 95) Naphthalene | 15.145 | 128 | 511948 | 113.046 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.327 | 180 | 234803 | 105.207 ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

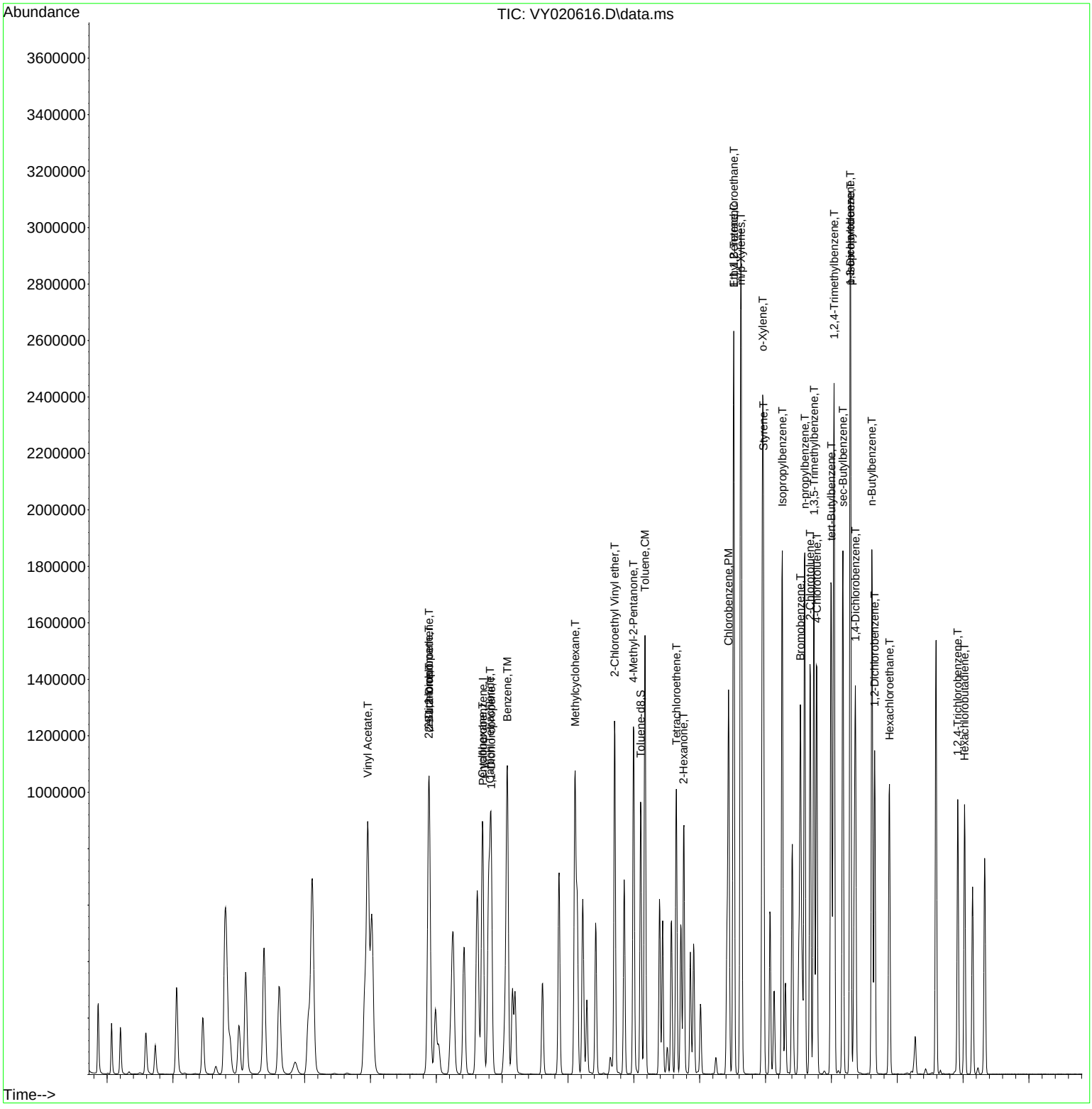
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

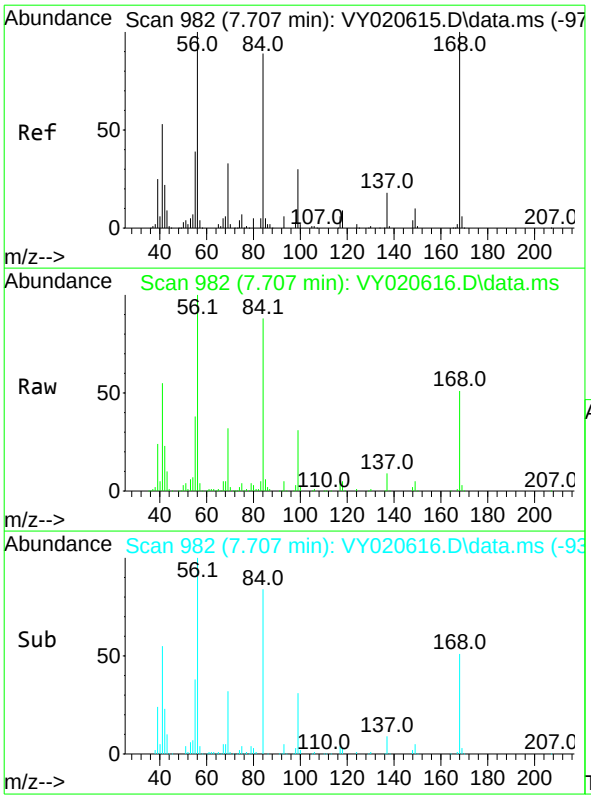
Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

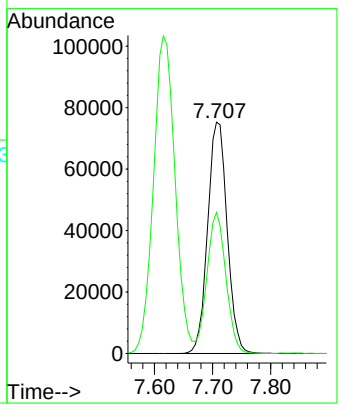





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:168 Resp: 175469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.0 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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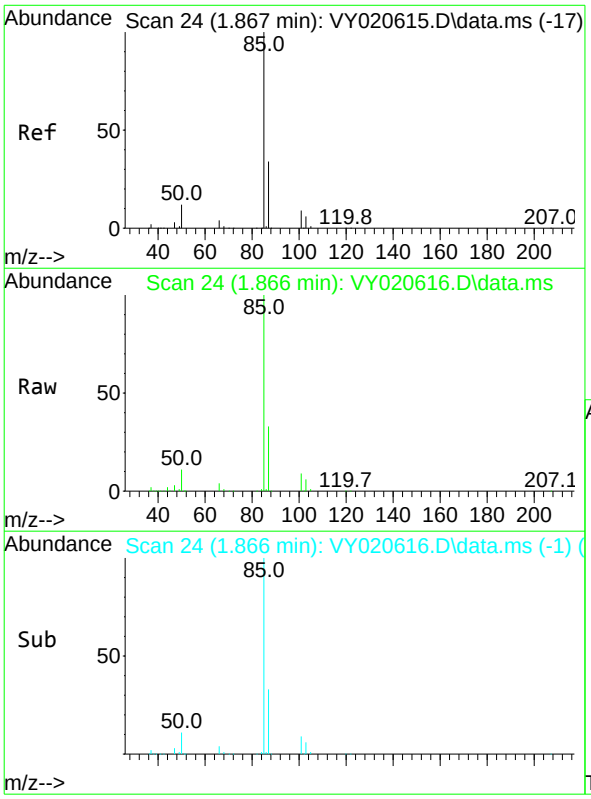
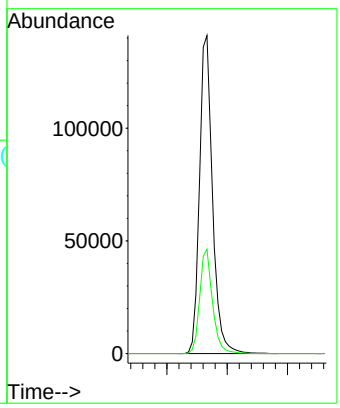
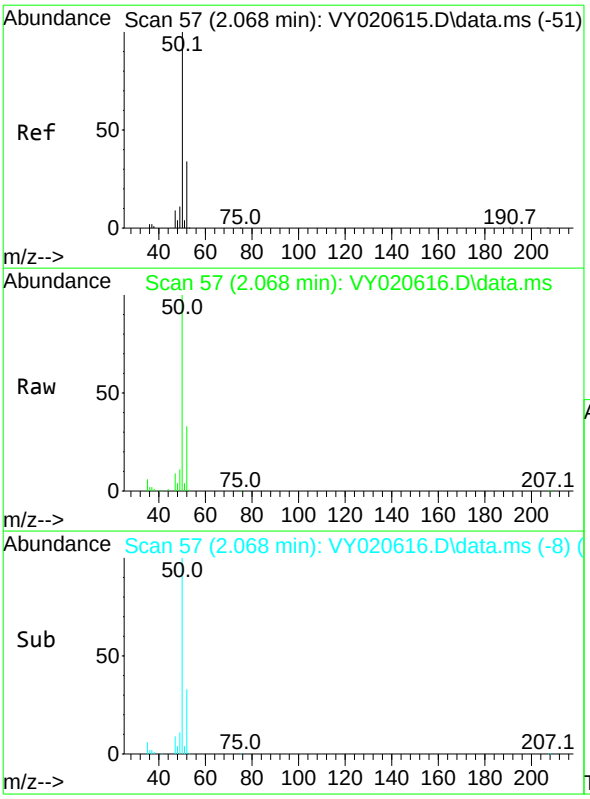



#2
Dichlorodifluoromethane
Concen: 96.249 ug/l
RT: 1.866 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 85 Resp: 210949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.9 | 16.8 | 50.3 |

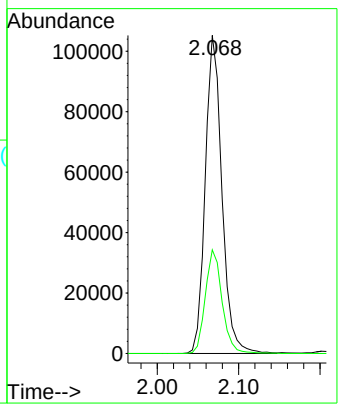





#3
Chloromethane
Concen: 92.044 ug/l
RT: 2.068 min Scan# 57
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 50 Resp: 149471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.6 | 26.8 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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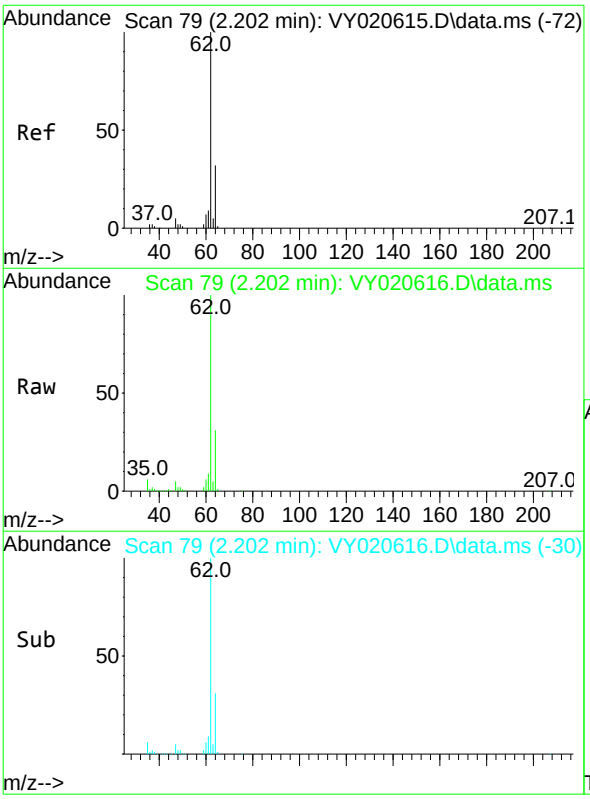
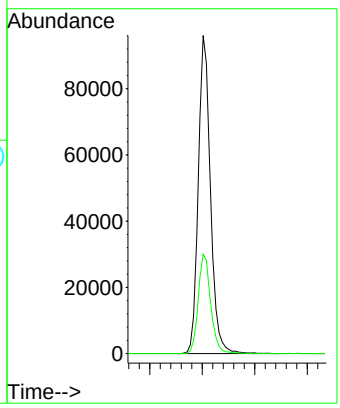
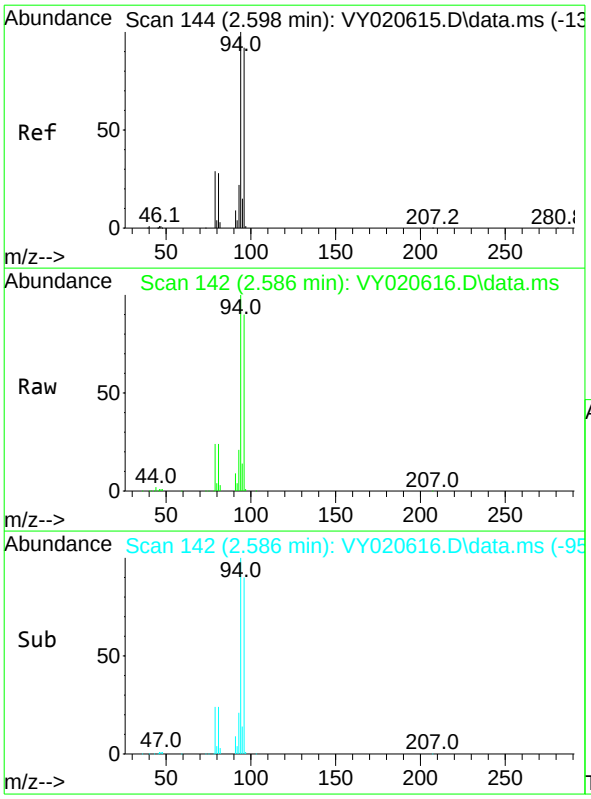



#4
Vinyl Chloride
Concen: 102.062 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 62 Resp: 154262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 25.3 | 37.9 |

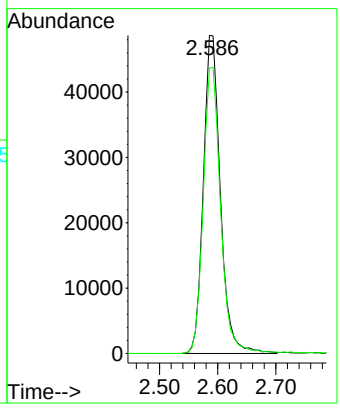





#5
Bromomethane
Concen: 101.715 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 94 Resp: 98824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.7 | 73.8 | 110.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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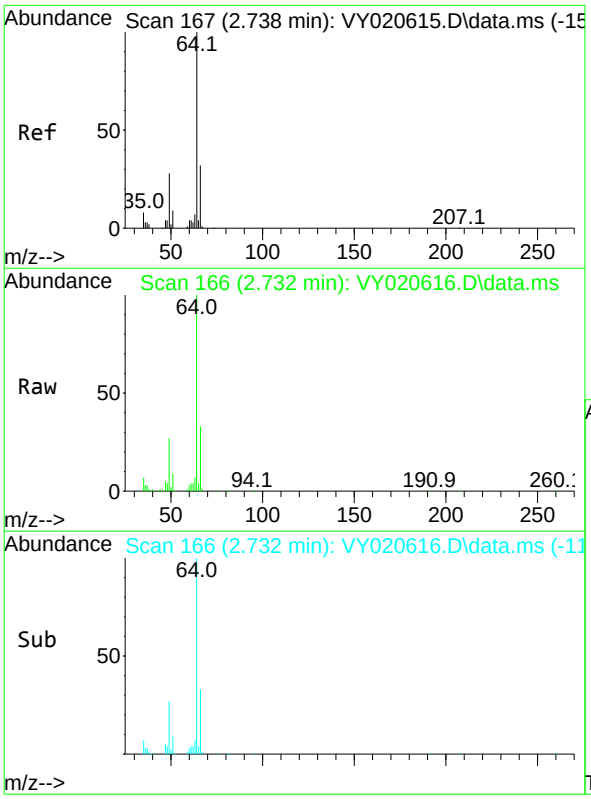
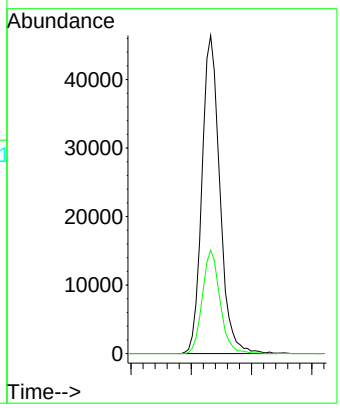
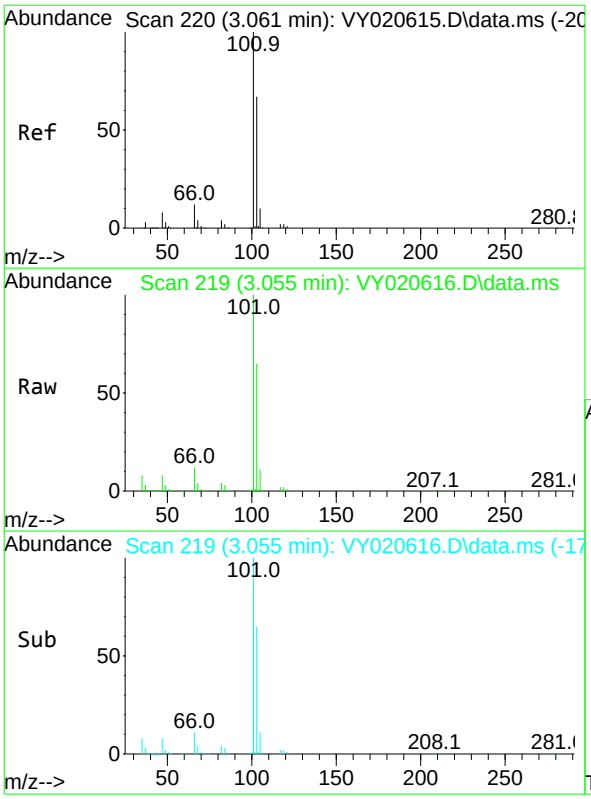



#6
Chloroethane
Concen: 102.376 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 64 Resp: 95621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.6 | 25.8 | 38.6 |

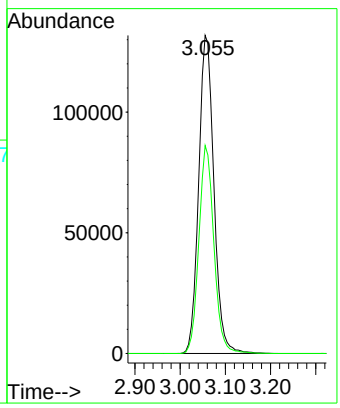





#7
Trichlorofluoromethane
Concen: 97.464 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:101 Resp: 308242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.4 | 53.4 | 80.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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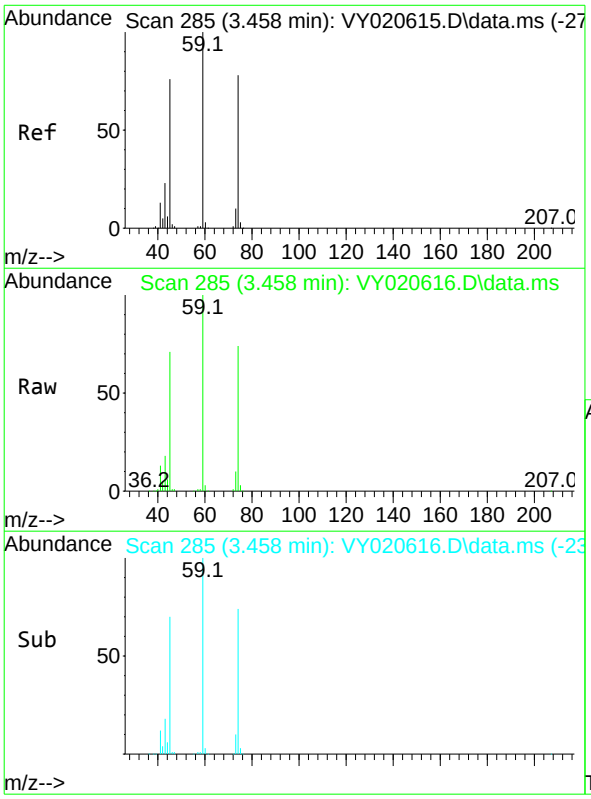
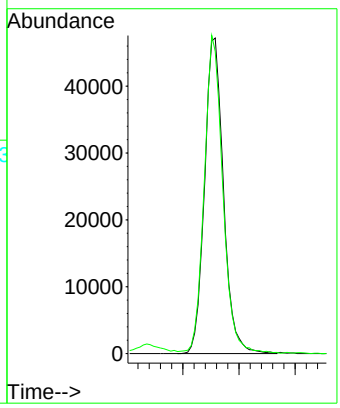
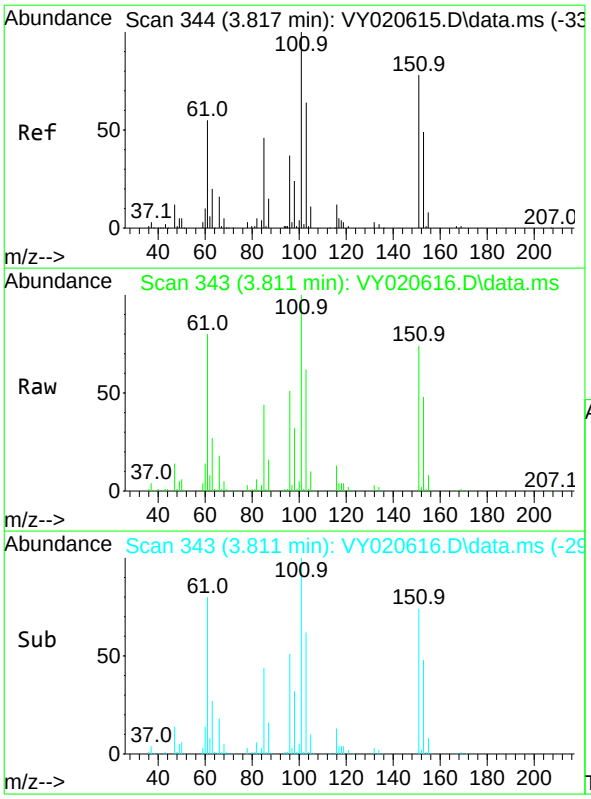



#8
Diethyl Ether
Concen: 99.599 ug/l
RT: 3.458 min Scan# 285
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 74 Resp: 110471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.7 | 49.0 | 147.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 100.469 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 227753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.9 | 36.6 | 54.8 |
| 151 | 76.3 | 61.5 | 92.3 |

**Manual Integrations**
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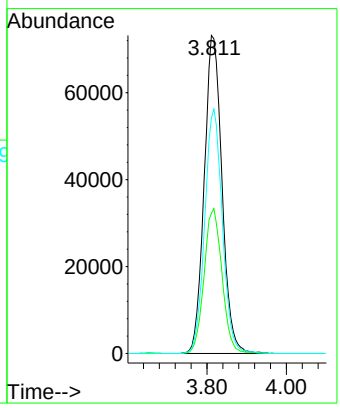
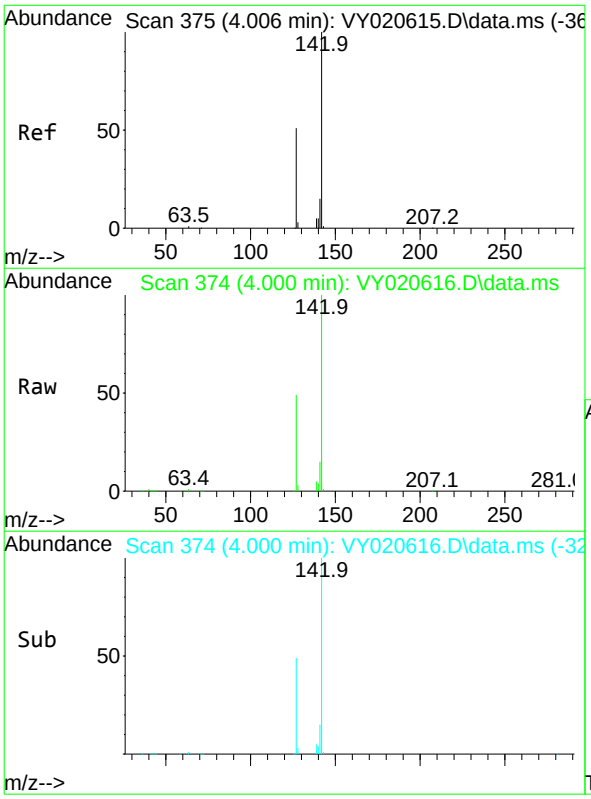
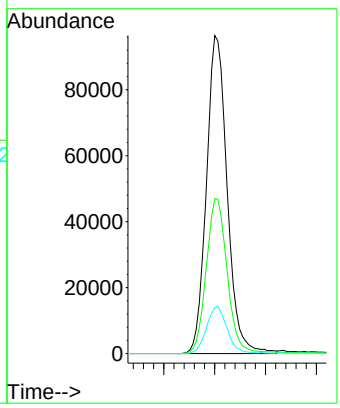


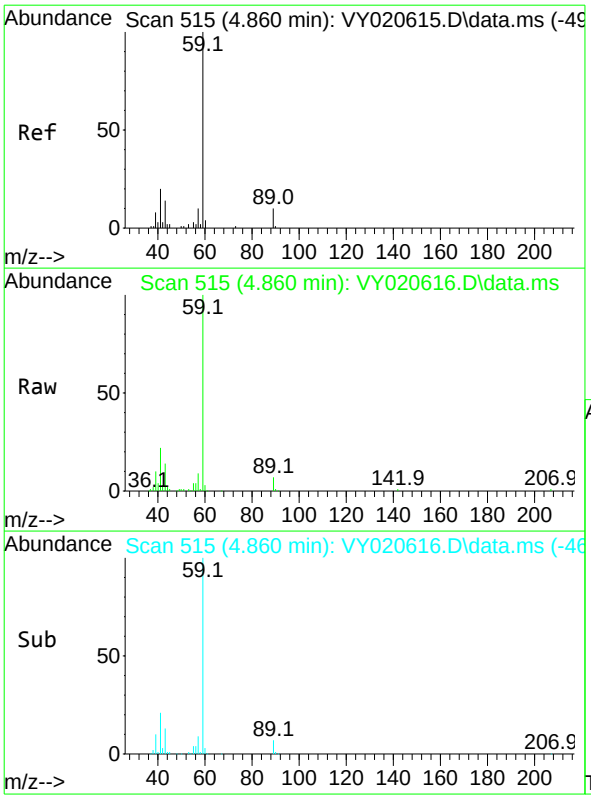




#10
Methyl Iodide
Concen: 108.168 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:142 Resp: 272999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 49.5 | 40.6 | 61.0 |
| 141 | 14.8 | 11.7 | 17.5 |

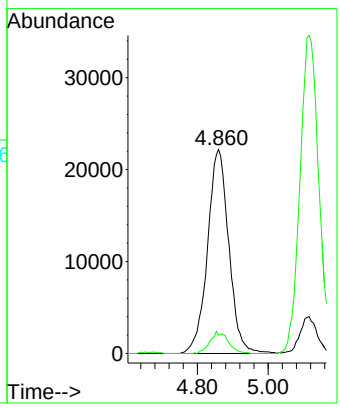





#11
Tert butyl alcohol
Concen: 533.746 ug/l
RT: 4.860 min Scan# 51
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 59 Resp: 92710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.1 | 7.4 | 11.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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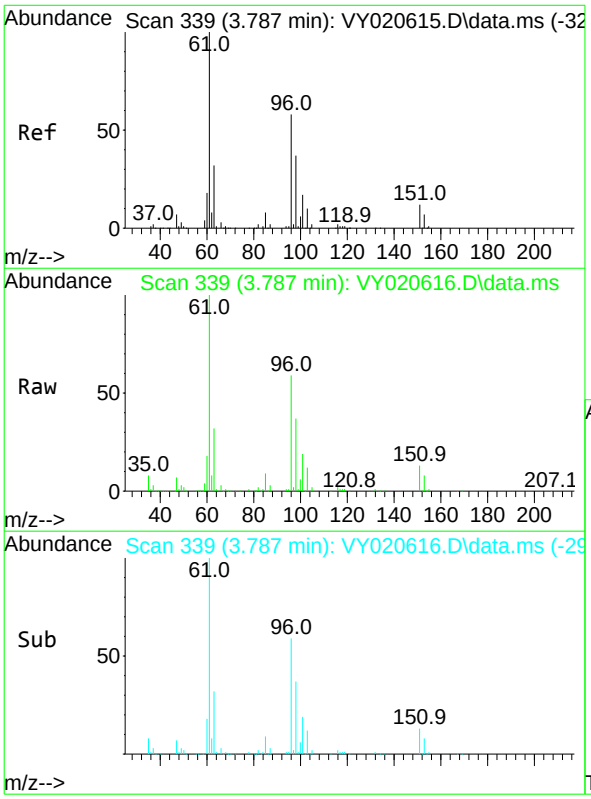
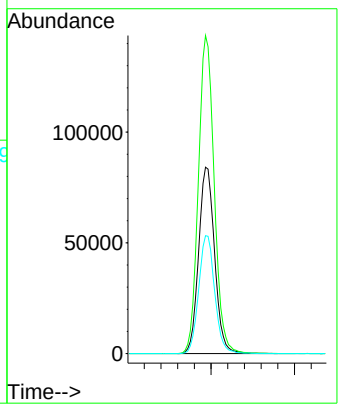
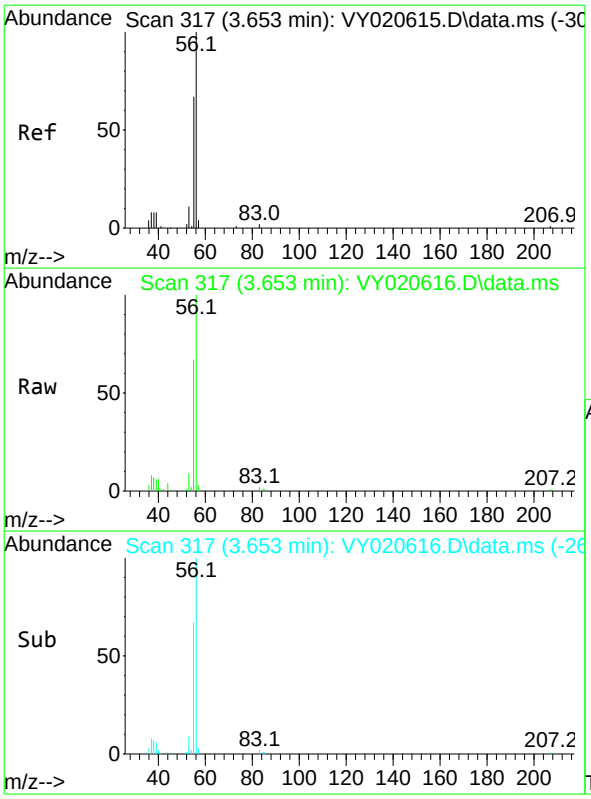



#12
1,1-Dichloroethene
Concen: 101.847 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 96 Resp: 224015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.6 | 136.9 | 205.3 |
| 98 | 63.2 | 50.2 | 75.4 |

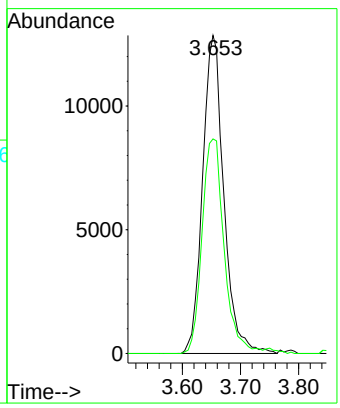





#13
Acrolein
Concen: 357.929 ug/l
RT: 3.653 min Scan# 31
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 56 Resp: 32525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.0 | 57.5 | 86.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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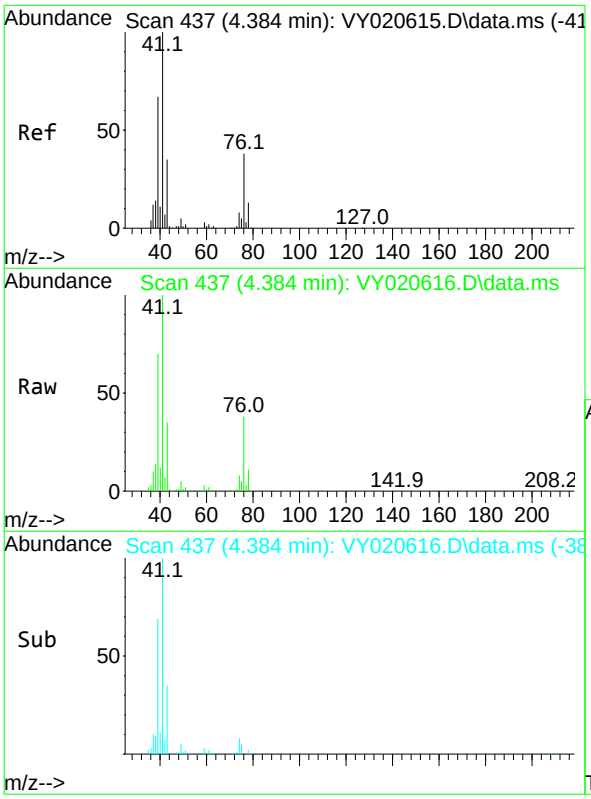
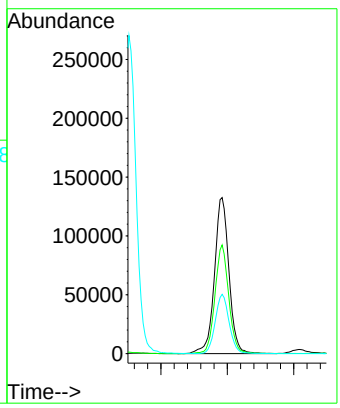
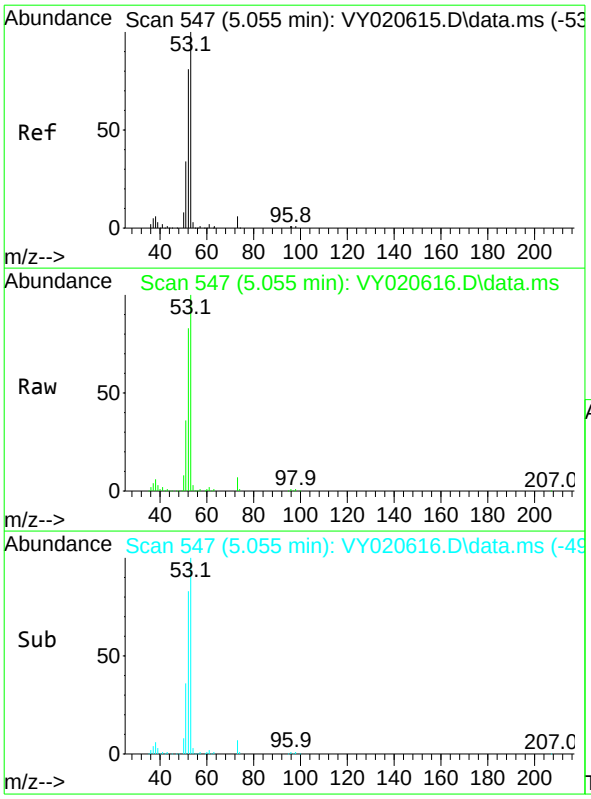



#14
Allyl chloride
Concen: 104.161 ug/l
RT: 4.384 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 41 Resp: 401452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.2 | 53.0 | 79.4 |
| 76 | 36.1 | 29.5 | 44.3 |

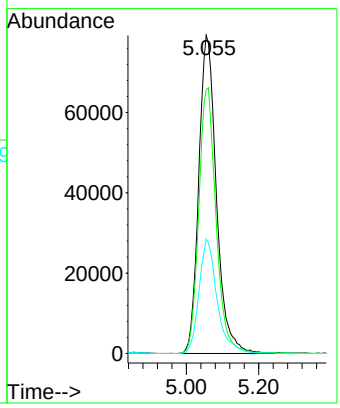





#15
Acrylonitrile
Concen: 506.539 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 53 Resp: 268782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.7 | 64.5 | 96.7 |
| 51 | 36.7 | 29.4 | 44.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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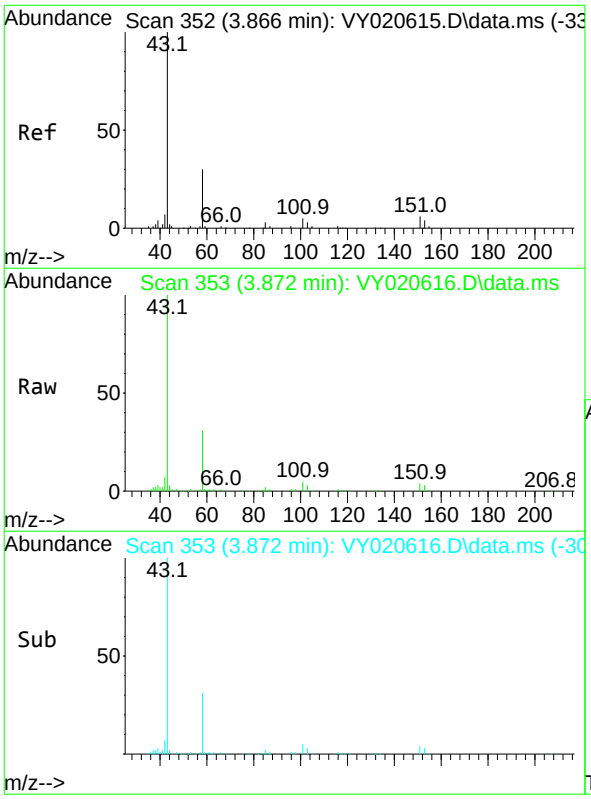
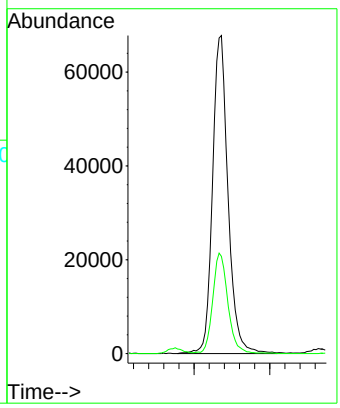
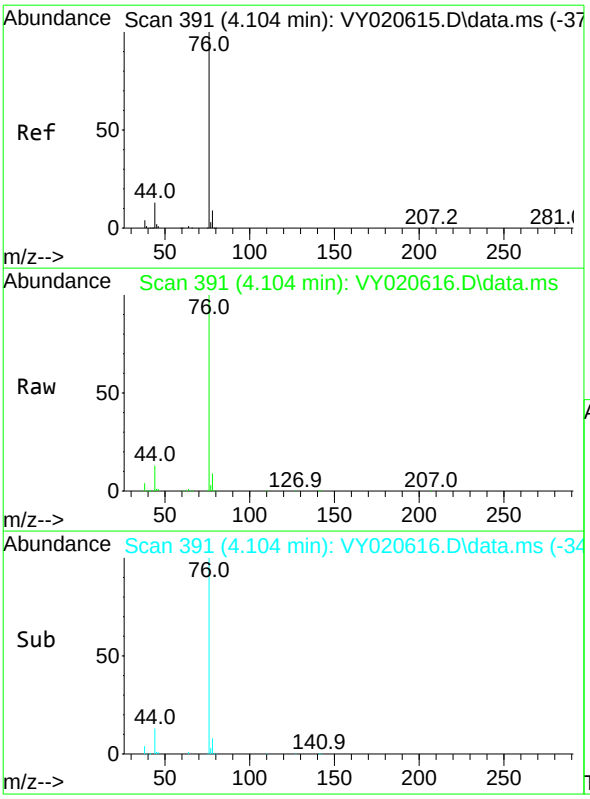



#16
Acetone
Concen: 512.024 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 192907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.6 | 25.0 | 37.6 |

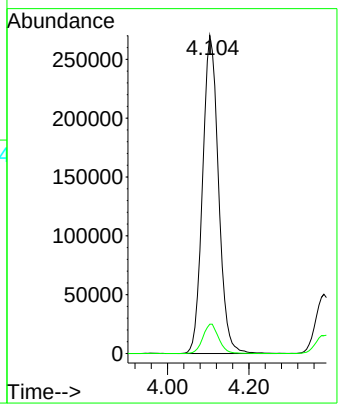





#17
Carbon Disulfide
Concen: 102.553 ug/l
RT: 4.104 min Scan# 39
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 76 Resp: 734236

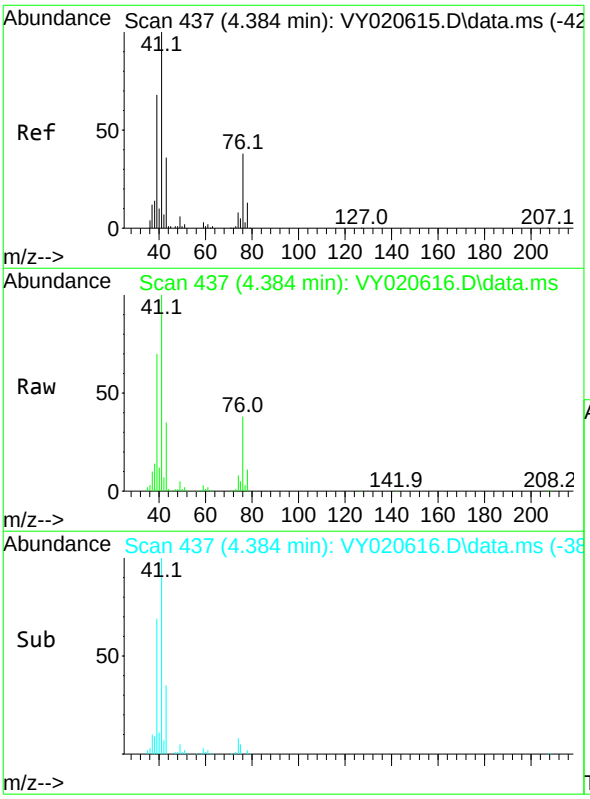
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

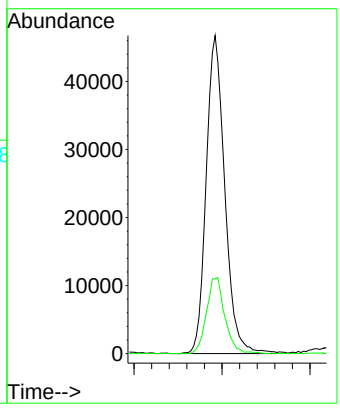
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

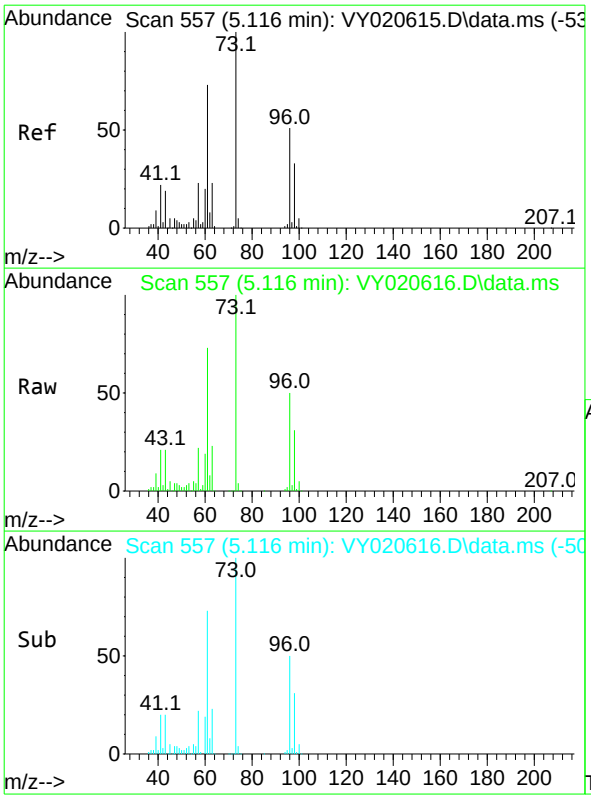



#18
Methyl Acetate
Concen: 104.906 ug/l
RT: 4.384 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 137166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.5 | 19.2 | 28.8 |

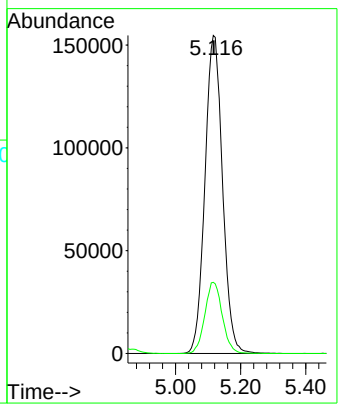





#19
Methyl tert-butyl Ether
Concen: 102.132 ug/l
RT: 5.116 min Scan# 55
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 73 Resp: 579813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.4 | 18.5 | 27.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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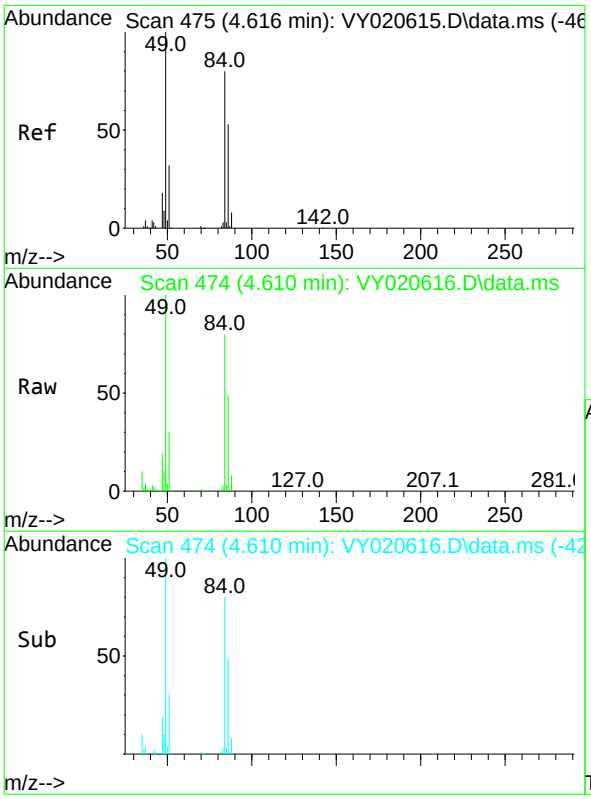
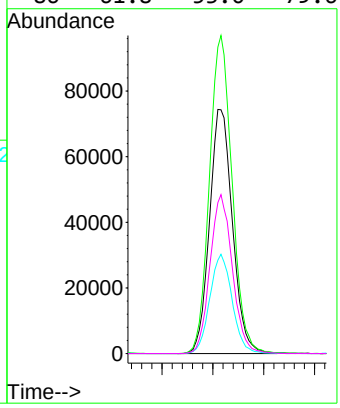
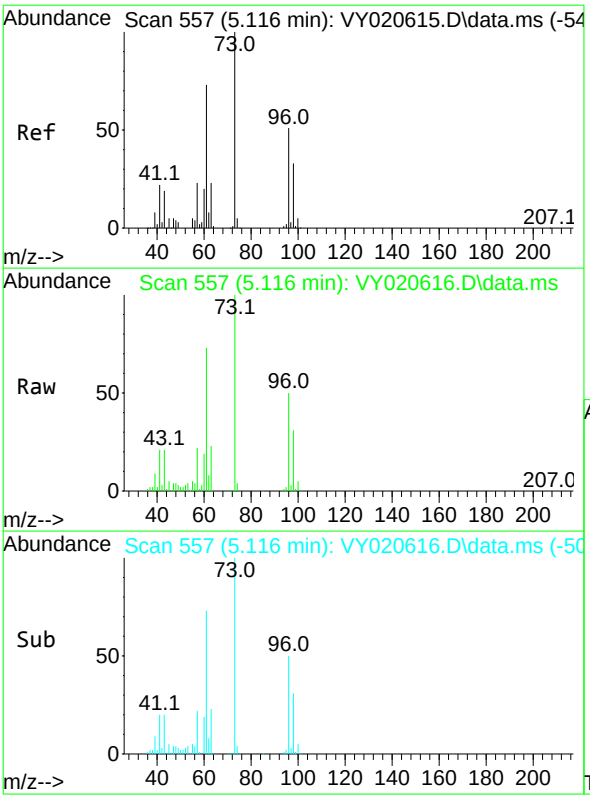



#20
Methylene Chloride
Concen: 97.650 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 84 Resp: 233323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.5 | 100.7 | 151.1 |
| 51 | 38.2 | 32.2 | 48.2 |
| 86 | 61.8 | 53.0 | 79.6 |

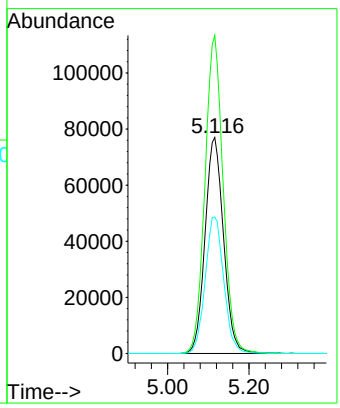





#21
trans-1,2-Dichloroethene
Concen: 98.365 ug/l
RT: 5.116 min Scan# 55
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 96 Resp: 242695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.3 | 113.7 | 170.5 |
| 98 | 63.2 | 51.7 | 77.5 |

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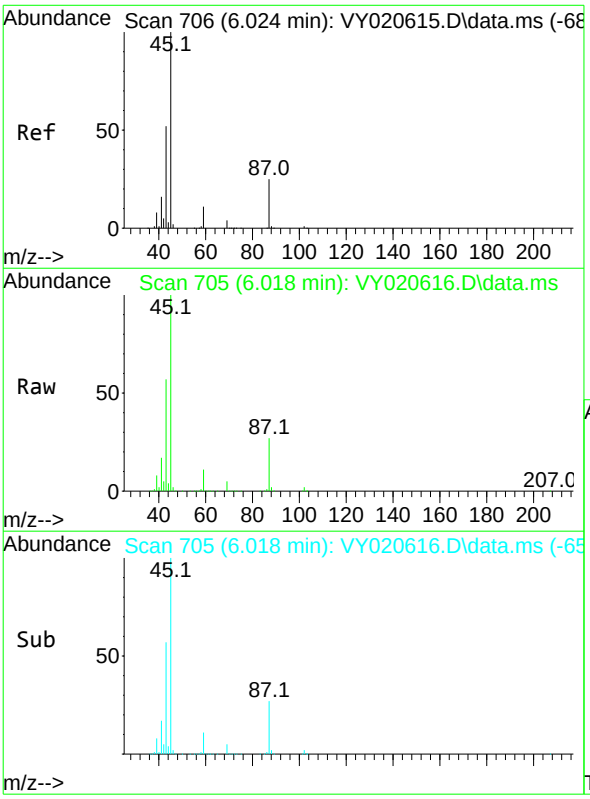
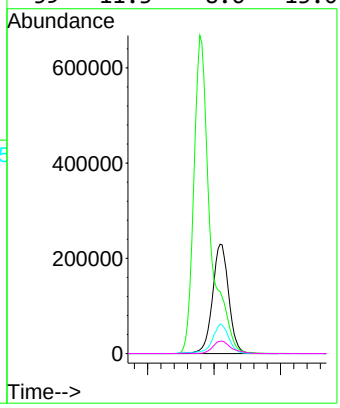
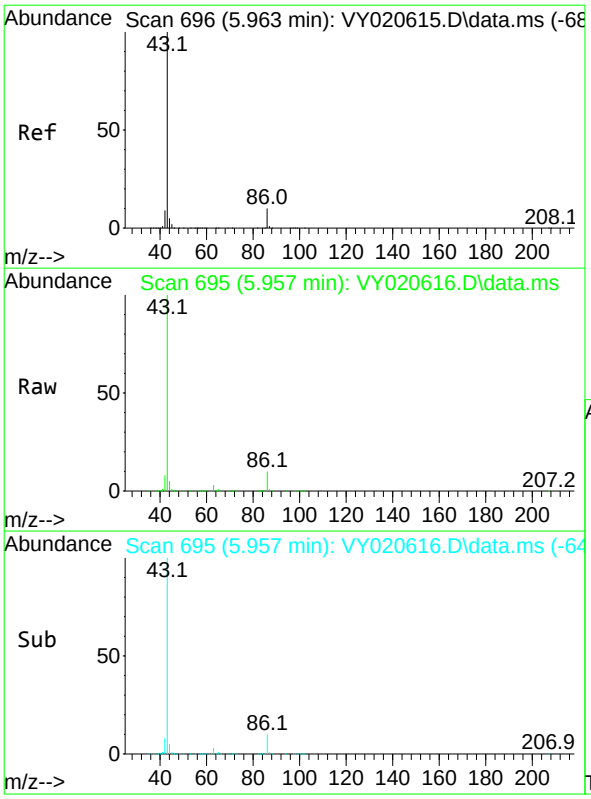



#22
Diisopropyl ether
Concen: 99.391 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 45 Resp: 777568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.5 | 42.6 | 64.0 |
| 87 | 27.1 | 20.6 | 31.0 |
| 59 | 11.3 | 8.6 | 13.0 |






#23
Vinyl Acetate
Concen: 512.739 ug/l
RT: 5.957 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 2271891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.1 | 8.1 | 12.1 |

**Instrument :**
MSVOA_Y
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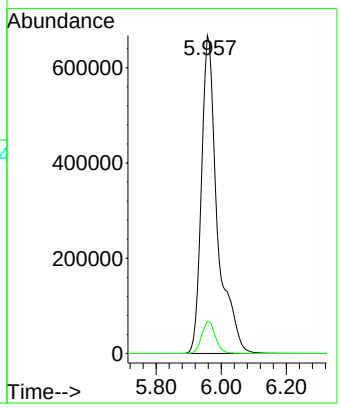
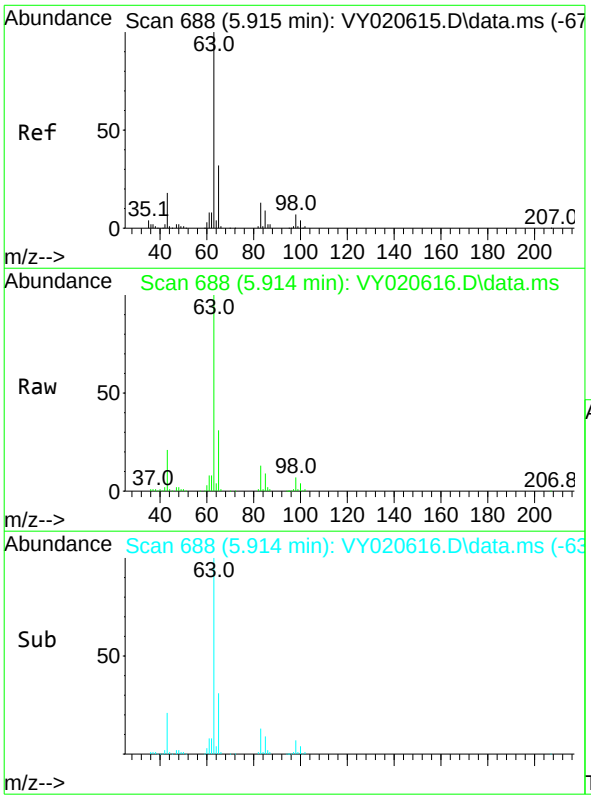
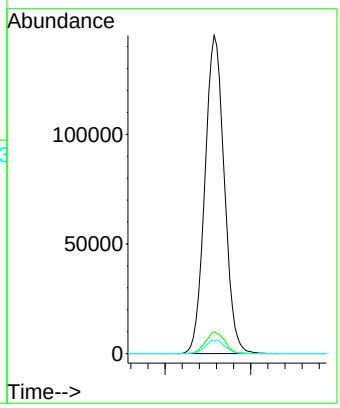


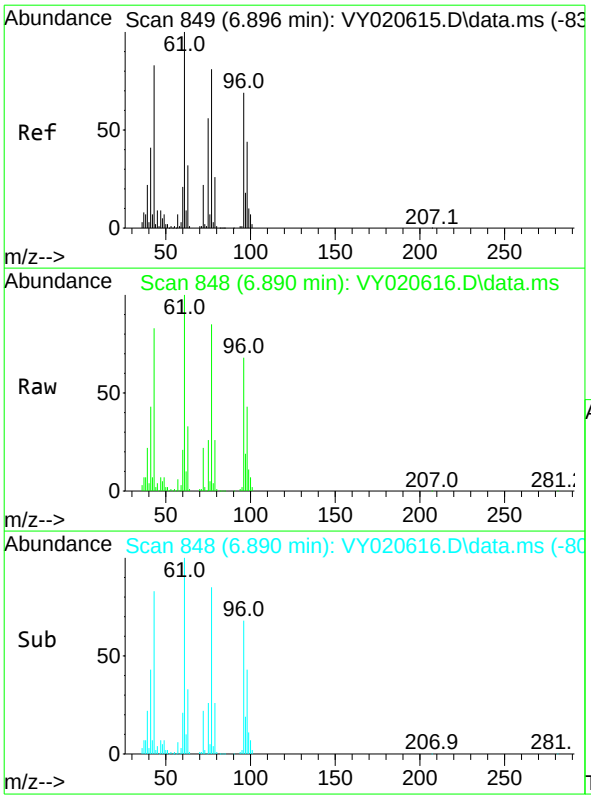




#24
1,1-Dichloroethane
Concen: 99.510 ug/l
RT: 5.914 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 63 Resp: 456073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 3.4 | 10.1 |
| 100 | 4.0 | 2.1 | 6.5 |

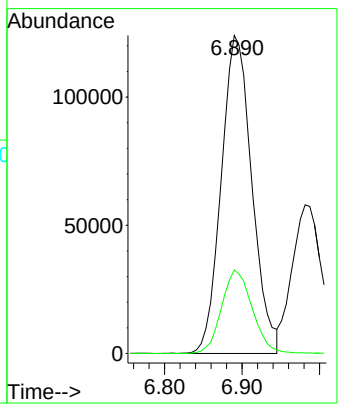





#25
2-Butanone
Concen: 478.150 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 341489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.2 | 20.6 | 31.0 |




**Instrument :**
MSVOA_Y
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VSTDICC100

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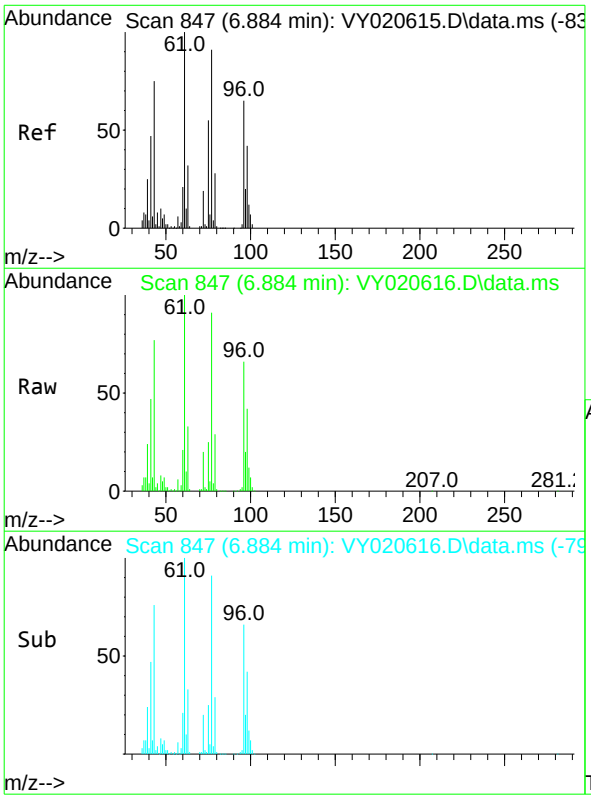
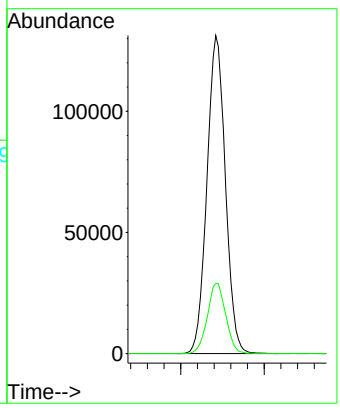
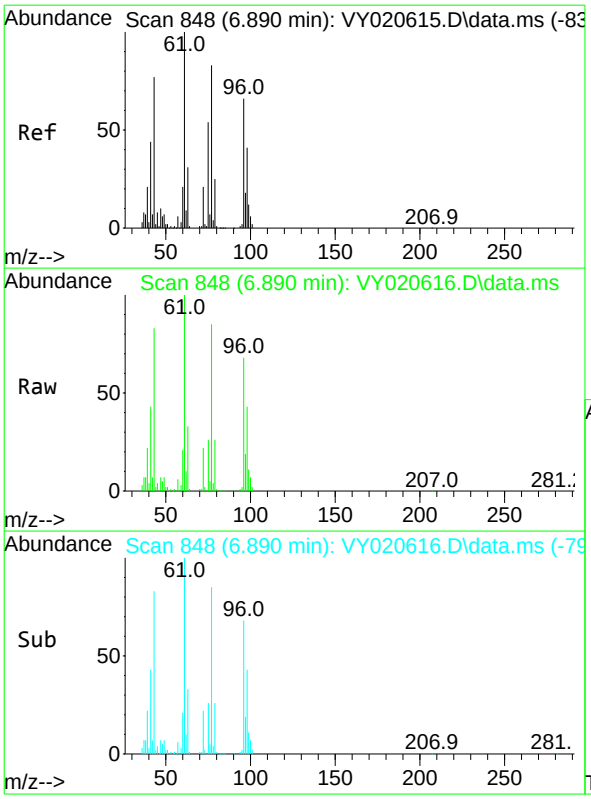



#26
2,2-Dichloropropane
Concen: 92.822 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 77 Resp: 402163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |

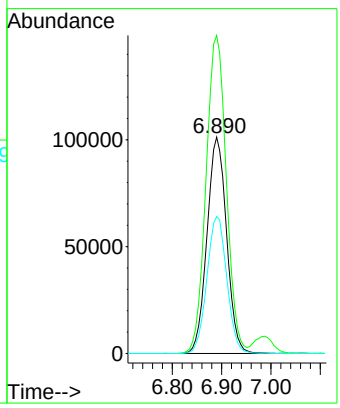





#27
cis-1,2-Dichloroethene
Concen: 98.523 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 96 Resp: 279676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.7 | 0.0 | 306.2 |
| 98 | 64.4 | 0.0 | 127.2 |

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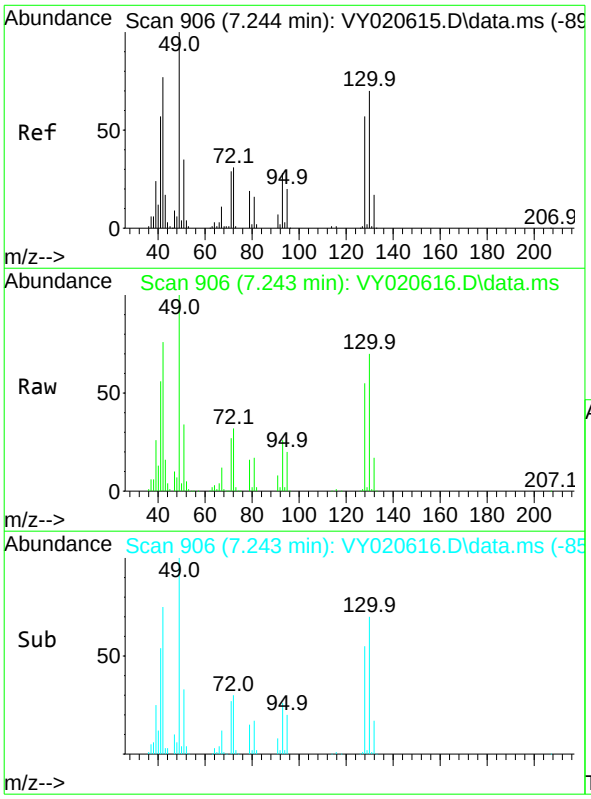
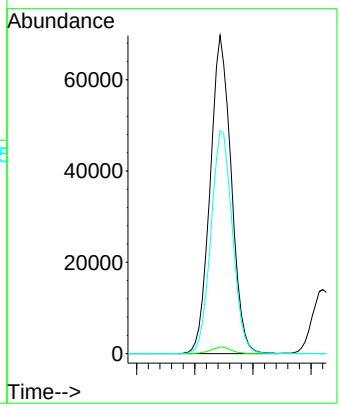
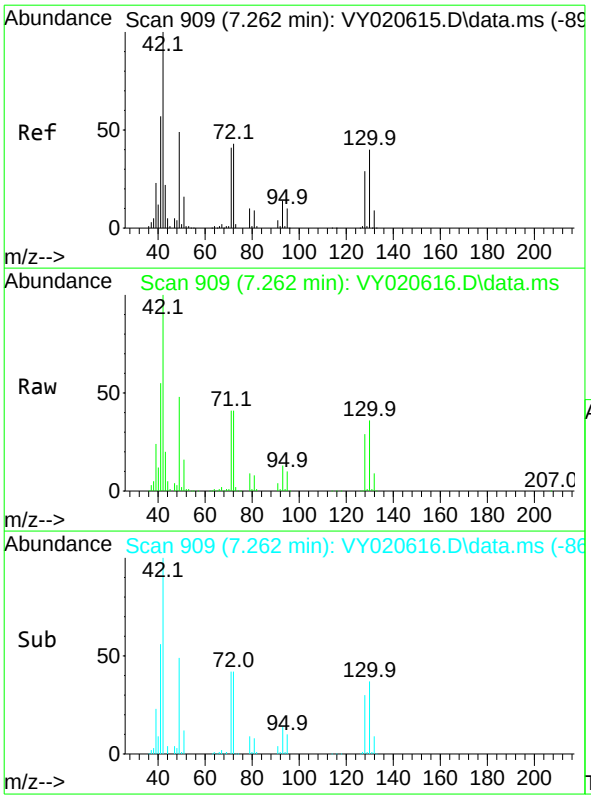



#28
Bromochloromethane
Concen: 113.661 ug/l
RT: 7.243 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 49 Resp: 175710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 3.8 |
| 130 | 71.4 | 58.3 | 87.5 |

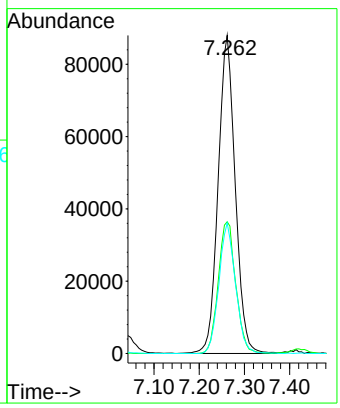





#29
Tetrahydrofuran
Concen: 512.090 ug/l
RT: 7.262 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 42 Resp: 230877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.4 | 34.0 | 51.0 |
| 71 | 39.9 | 31.6 | 47.4 |

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VSTDICC100

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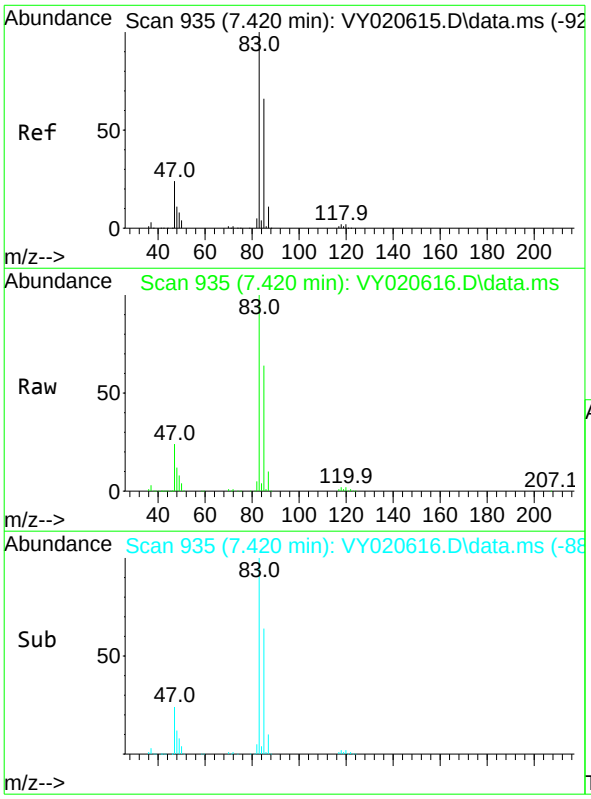
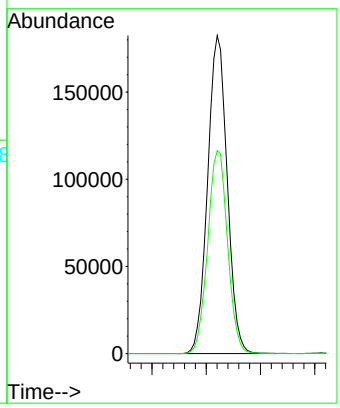
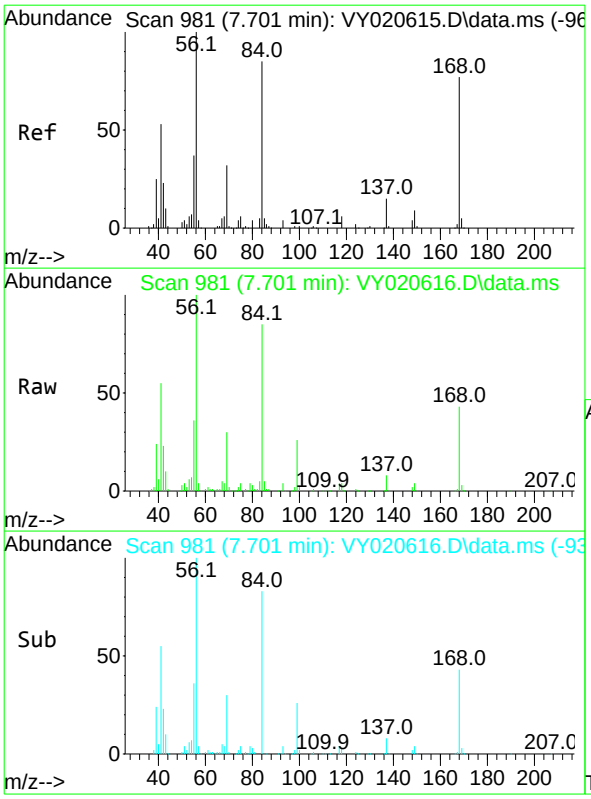



#30
Chloroform
Concen: 105.160 ug/l
RT: 7.420 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 83 Resp: 457070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 52.7 | 79.1 |

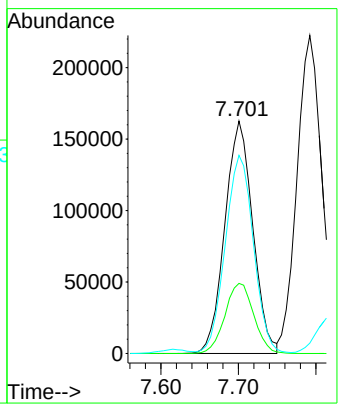





#31
Cyclohexane
Concen: 92.899 ug/l
RT: 7.701 min Scan# 98
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 56 Resp: 407104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.2 | 25.4 | 38.0 |
| 84 | 83.7 | 68.3 | 102.5 |

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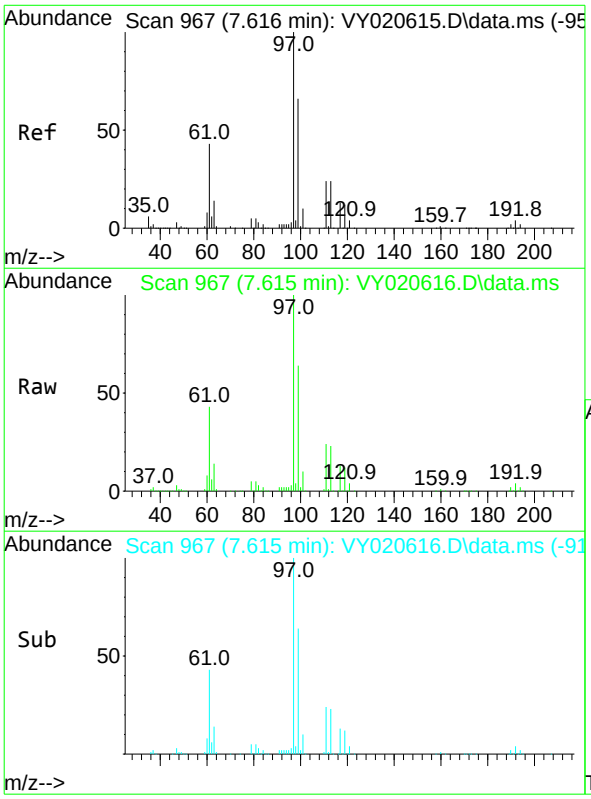
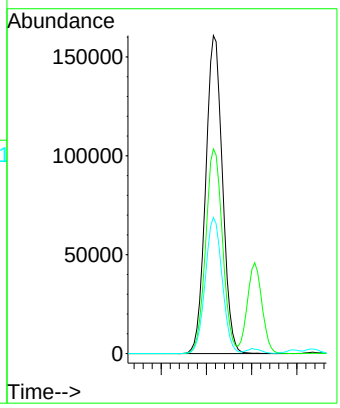
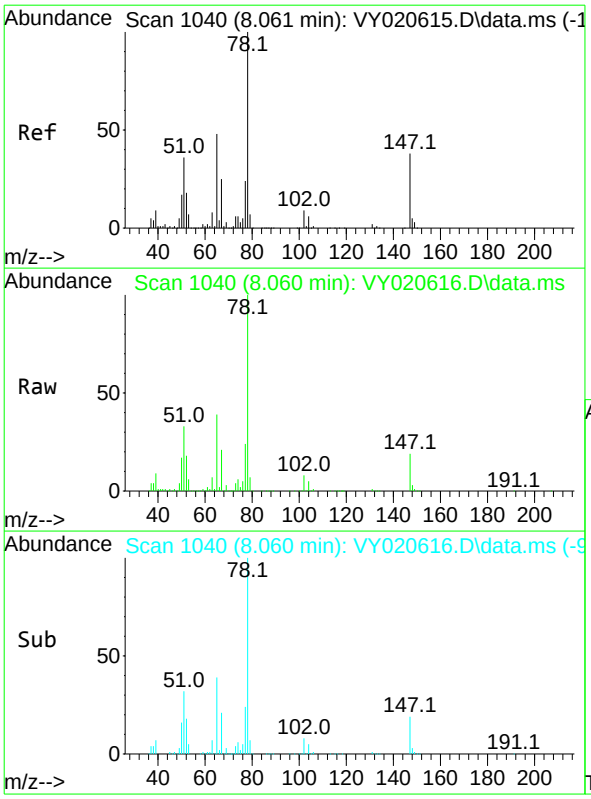



#32
1,1,1-Trichloroethane
Concen: 98.578 ug/l
RT: 7.615 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 97 Resp: 415073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.6 | 77.4 |
| 61 | 43.0 | 34.7 | 52.1 |

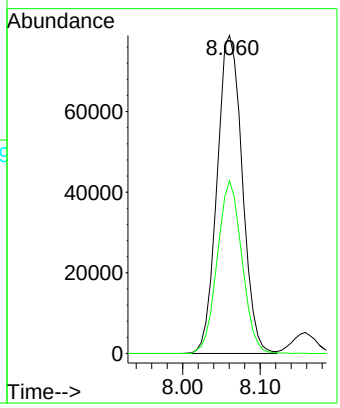





#33
1,2-Dichloroethane-d4
Concen: 92.612 ug/l
RT: 8.060 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 65 Resp: 177978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.2 | 0.0 | 108.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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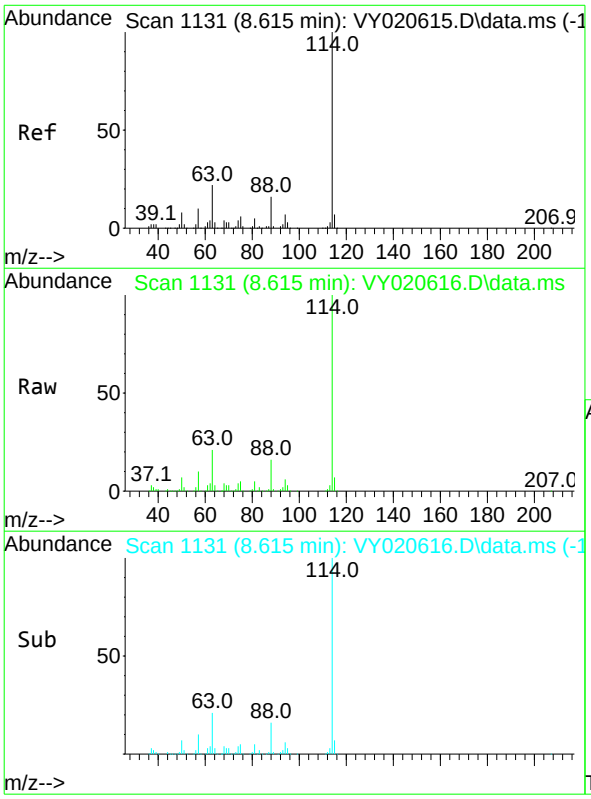
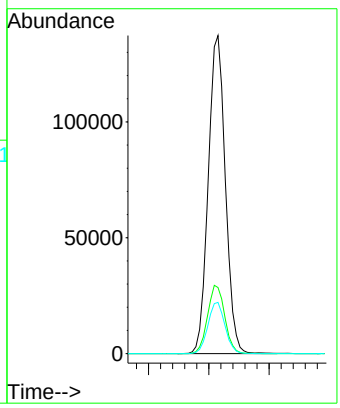
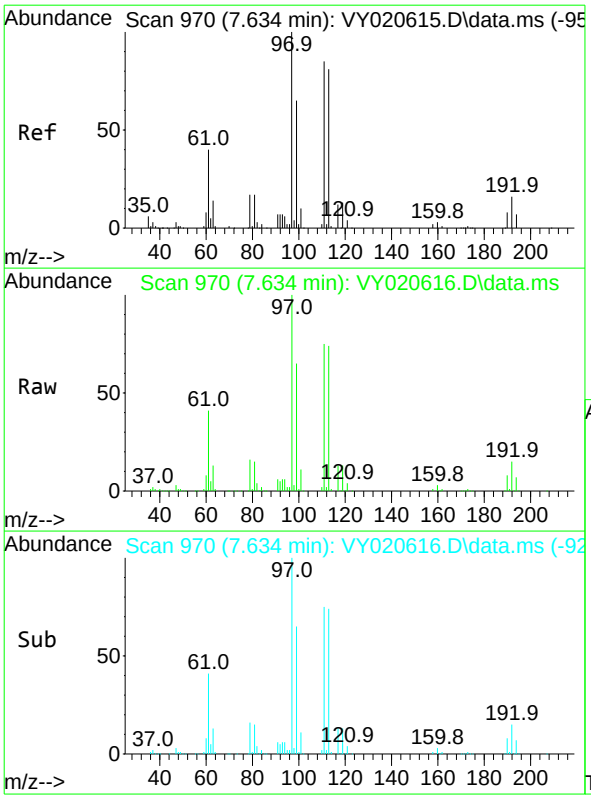



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:114 Resp: 270859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.8 | 0.0 | 44.0 |
| 88 | 16.1 | 0.0 | 32.8 |

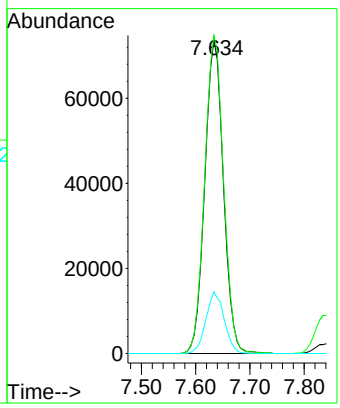





#35
Dibromofluoromethane
Concen: 92.118 ug/l
RT: 7.634 min Scan# 97
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:113 Resp: 175849

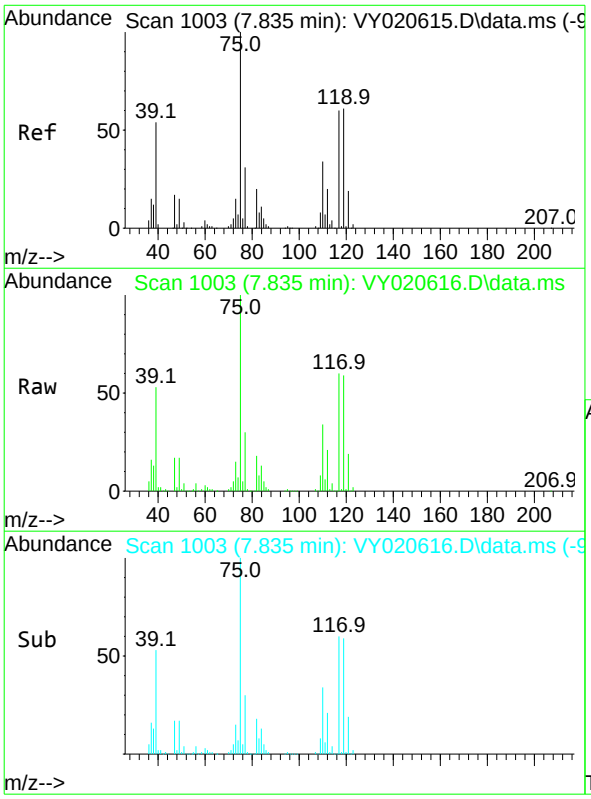
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 82.9 | 124.3 |
| 192 | 19.3 | 15.7 | 23.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

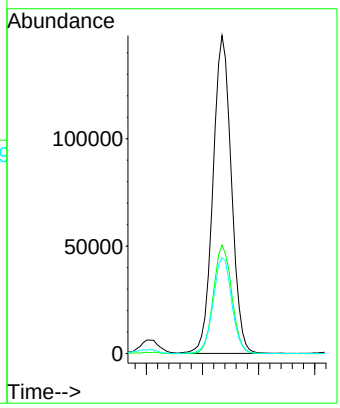
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

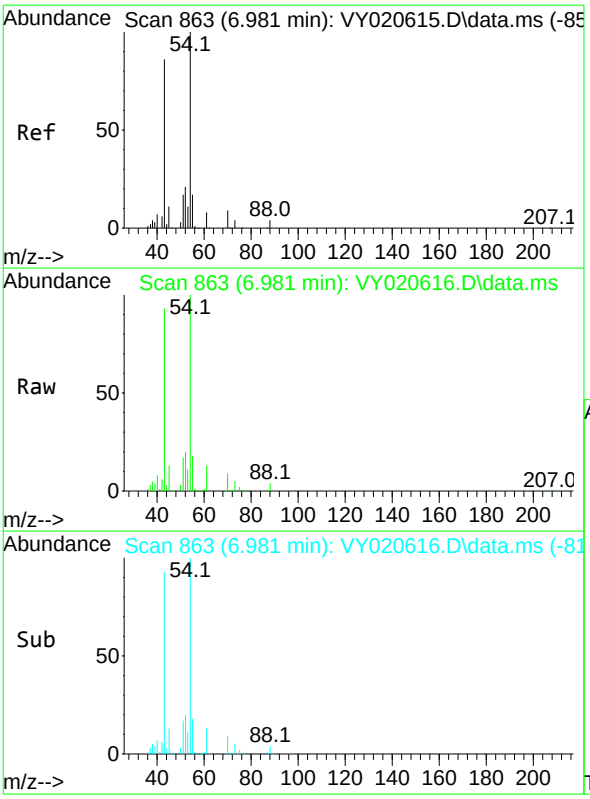



#36
1,1-Dichloropropene
Concen: 96.854 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 75 Resp: 337138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.9 | 16.8 | 50.4 |
| 77 | 30.7 | 25.0 | 37.6 |

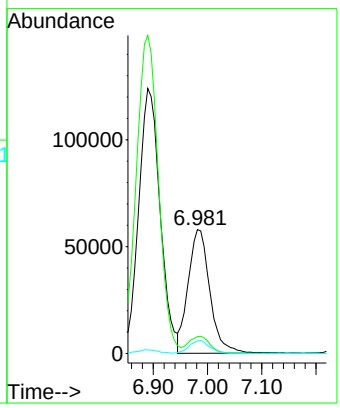





#37
Ethyl Acetate
Concen: 97.867 ug/l
RT: 6.981 min Scan# 86
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 160241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 11.0 | 16.4 |
| 70 | 9.9 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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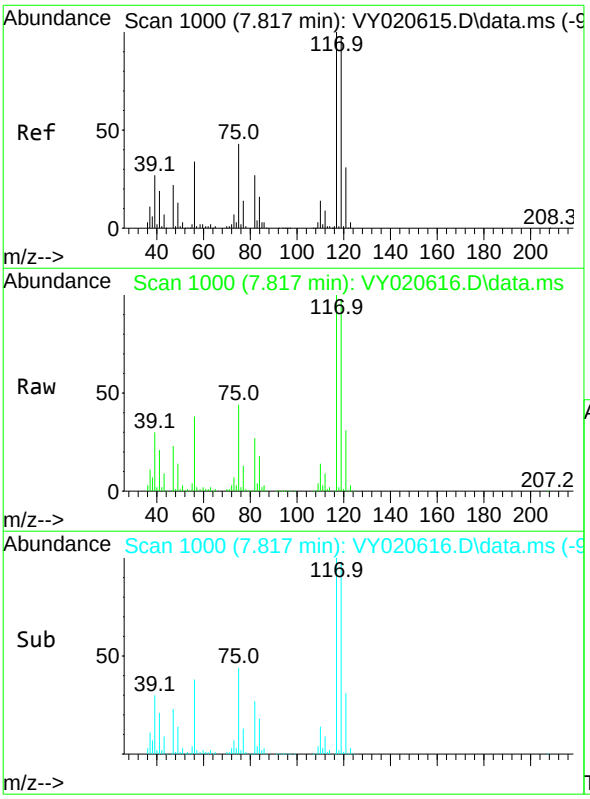
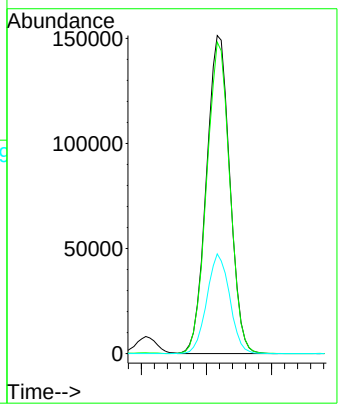
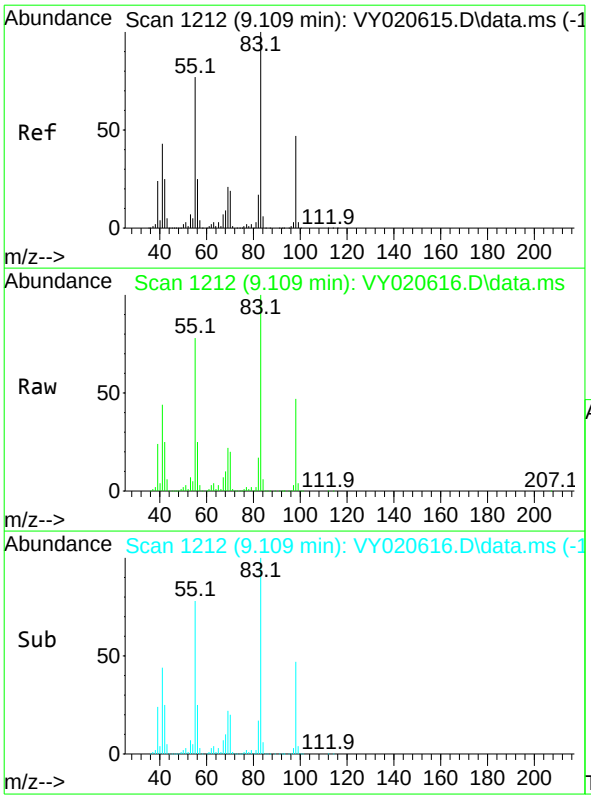



#38
Carbon Tetrachloride
Concen: 97.998 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:117 Resp: 377406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.9 | 78.3 | 117.5 |
| 121 | 31.4 | 25.1 | 37.7 |

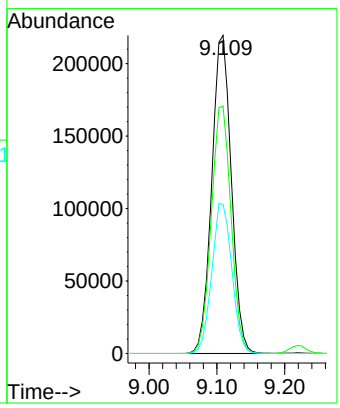





#39
Methylcyclohexane
Concen: 96.986 ug/l
RT: 9.109 min Scan# 12
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 83 Resp: 440006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.8 | 61.4 | 92.0 |
| 98 | 46.9 | 37.3 | 55.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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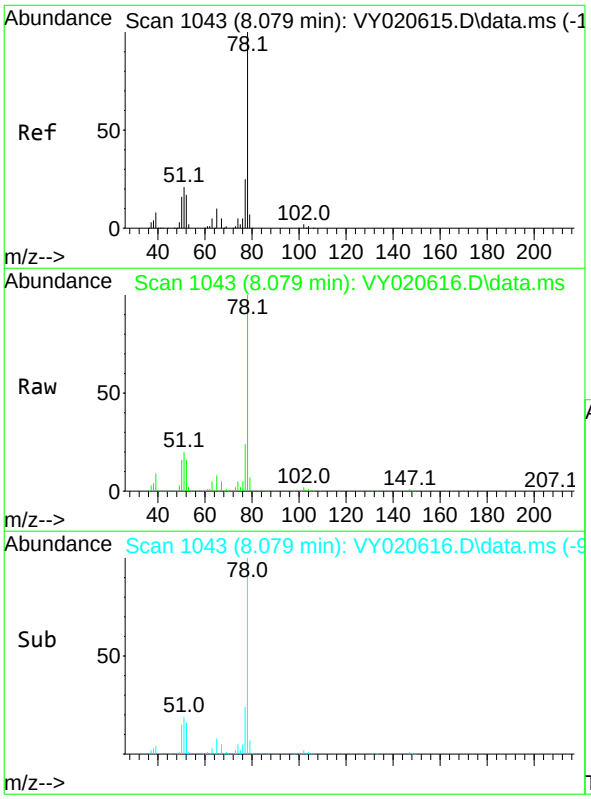
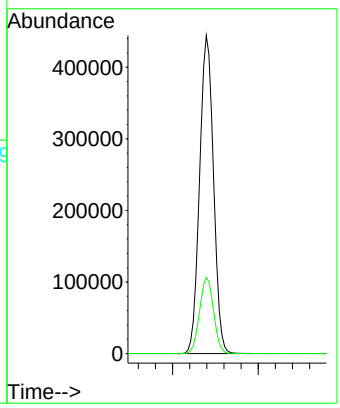
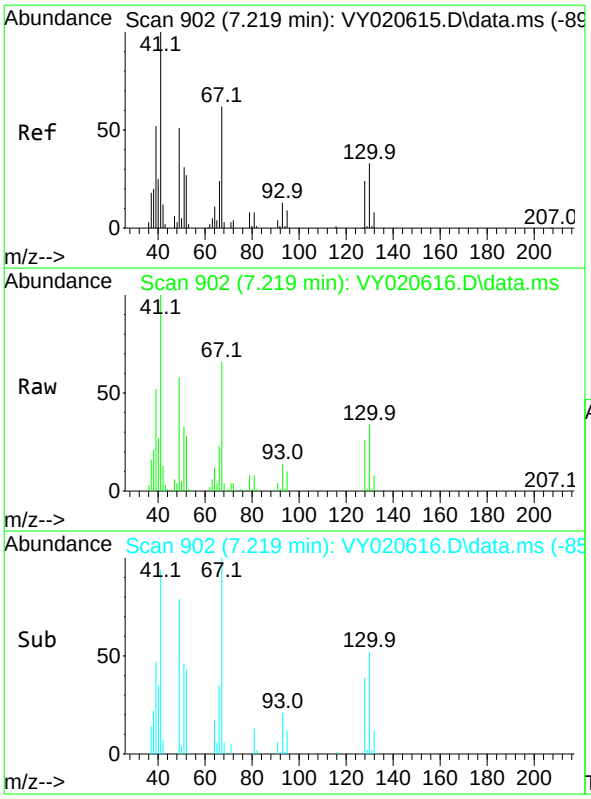



#40
Benzene
Concen: 98.064 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 78 Resp: 1000543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 20.1 | 30.1 |

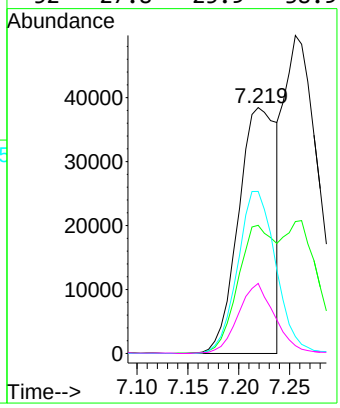





#41
Methacrylonitrile
Concen: 114.810 ug/l
RT: 7.219 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 41 Resp: 99381

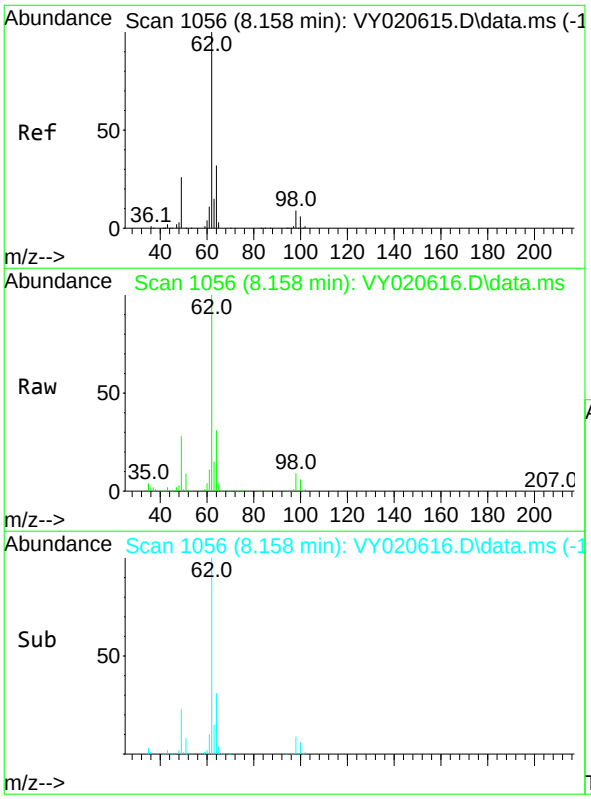
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.3 | 53.6 | 80.4# |
| 67 | 67.0 | 62.0 | 93.0 |
| 52 | 27.8 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

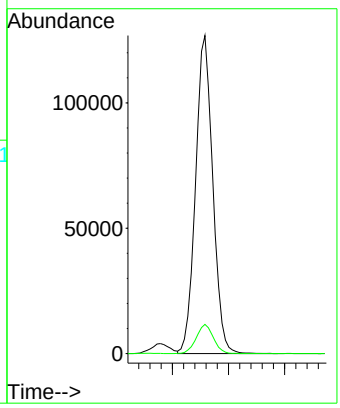
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

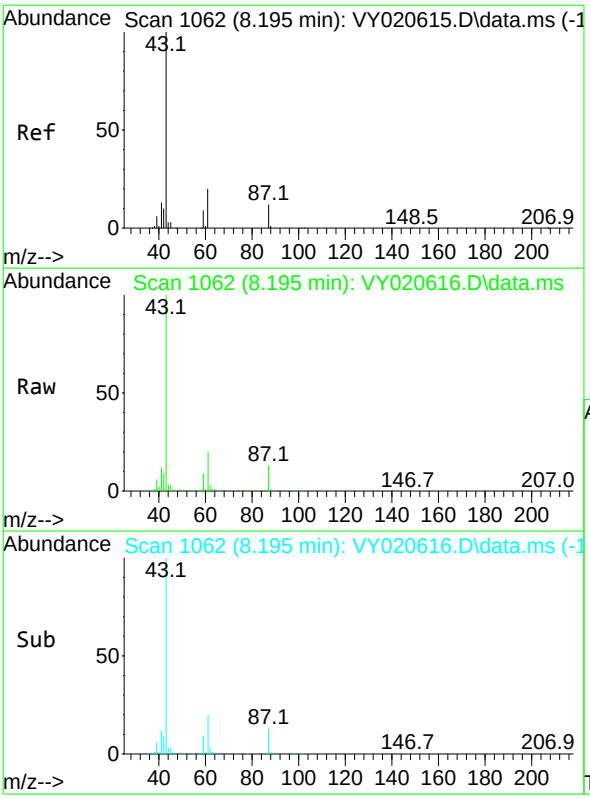



#42
1,2-Dichloroethane
Concen: 99.793 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 62 Resp: 270045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.1 | 0.0 | 18.0 |

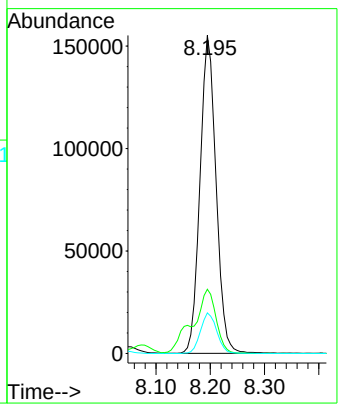





#43
Isopropyl Acetate
Concen: 102.879 ug/l
RT: 8.195 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 318902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.4 | 23.8 | 35.6 |
| 87 | 13.0 | 10.2 | 15.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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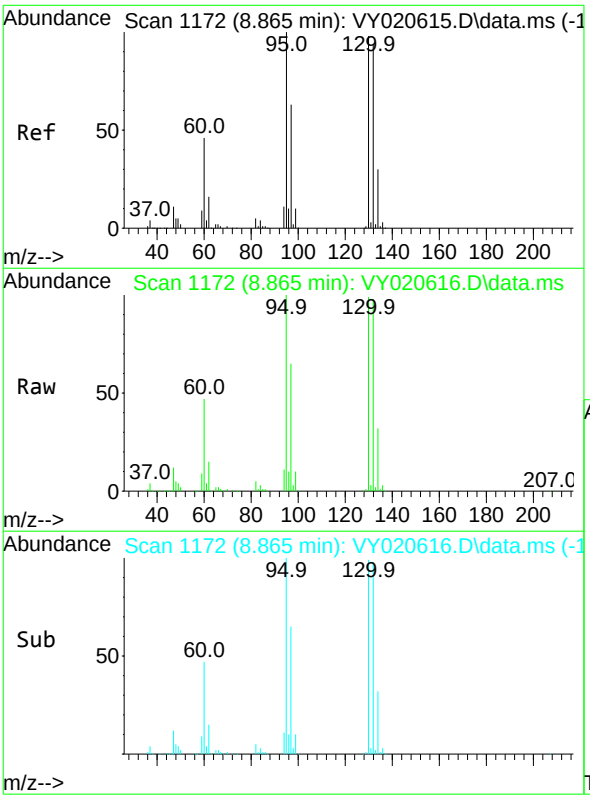
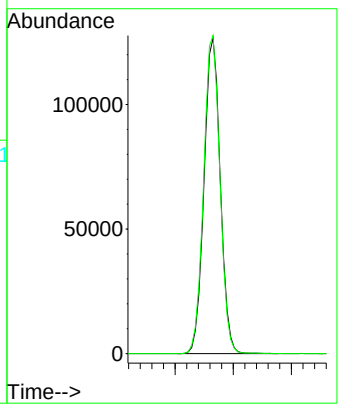
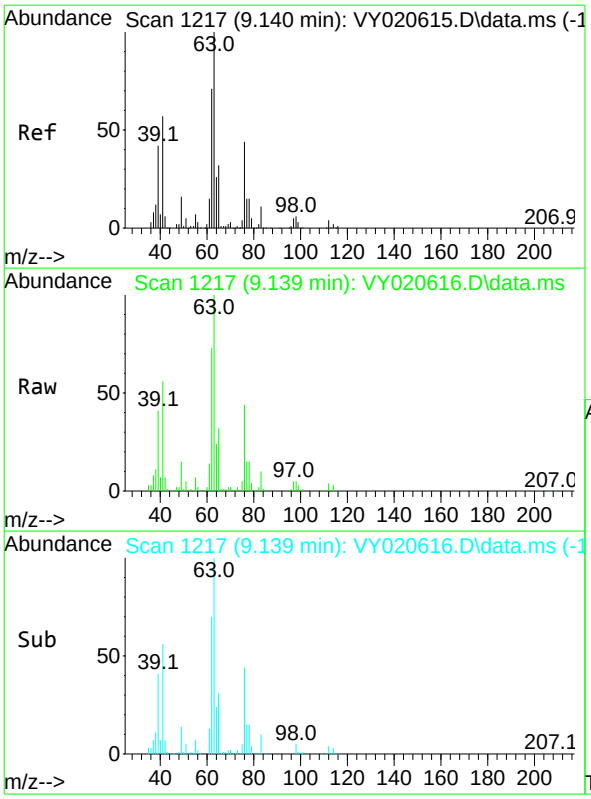



#44
Trichloroethene
Concen: 97.912 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:130 Resp: 245474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.8 | 0.0 | 203.2 |

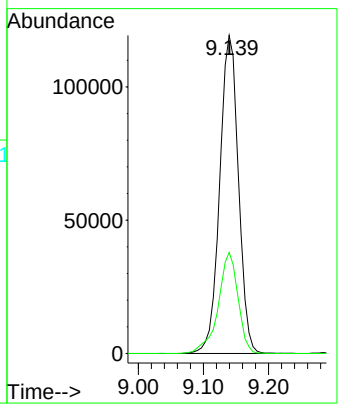





#45
1,2-Dichloropropane
Concen: 100.062 ug/l
RT: 9.139 min Scan# 12
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 63 Resp: 238605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.8 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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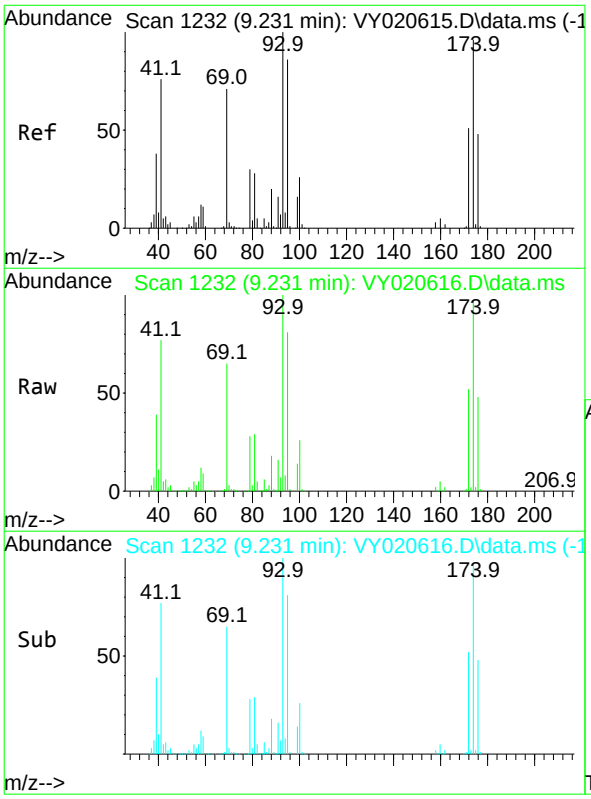
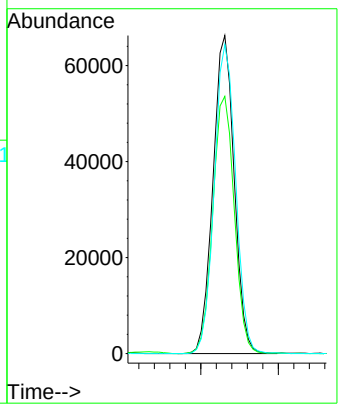
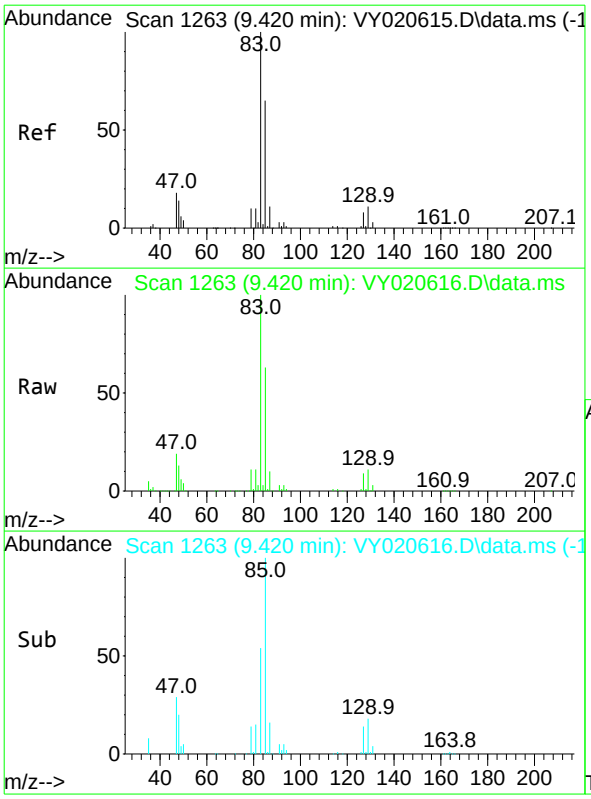



#46
Dibromomethane
Concen: 100.032 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 93 Resp: 126063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.1 | 66.7 | 100.1 |
| 174 | 97.9 | 77.8 | 116.6 |

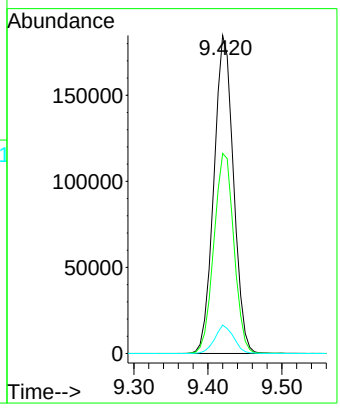





#47
Bromodichloromethane
Concen: 99.796 ug/l
RT: 9.420 min Scan# 12
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 83 Resp: 339720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.9 | 52.1 | 78.1 |
| 127 | 8.9 | 6.7 | 10.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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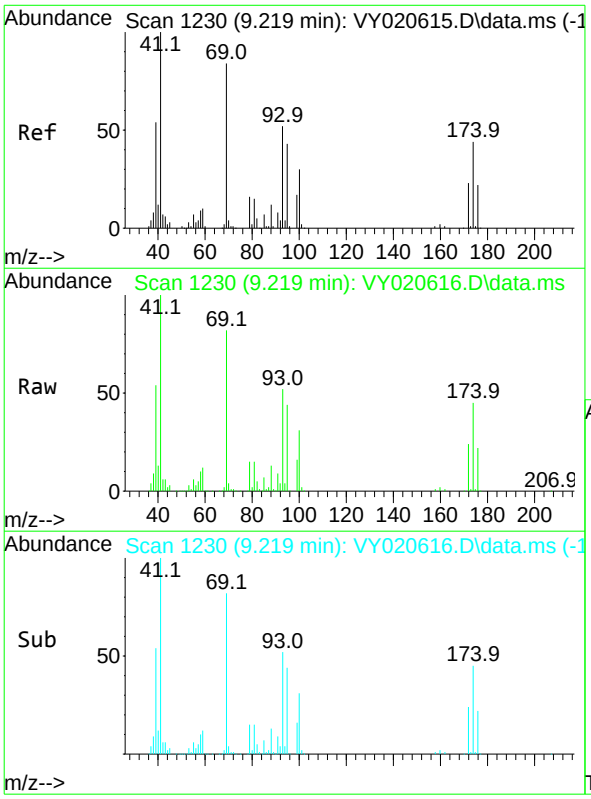
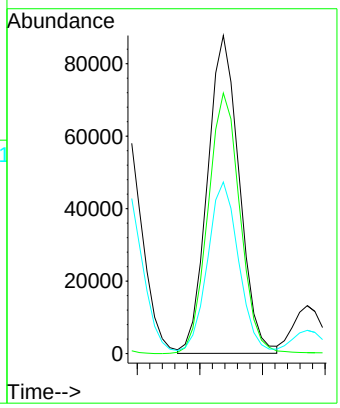
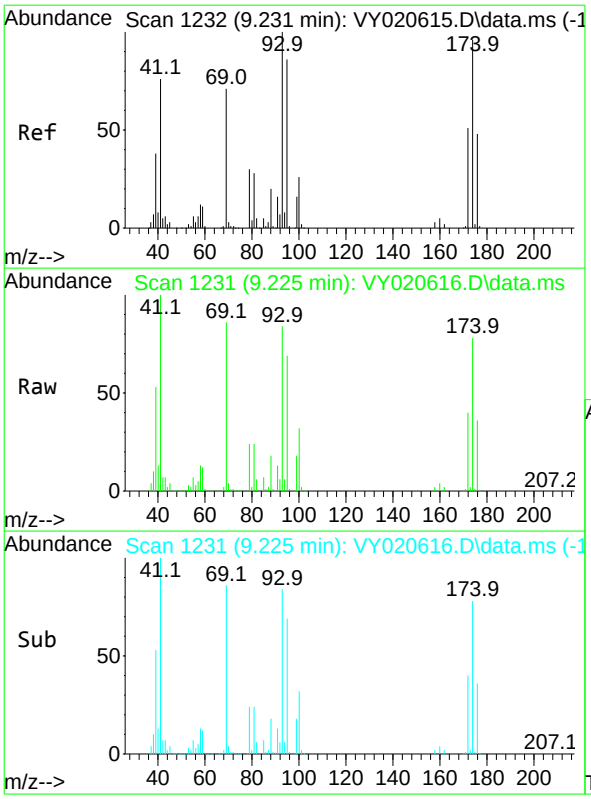



#48
Methyl methacrylate
Concen: 105.079 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 41 Resp: 154845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.1 | 67.2 | 100.8 |
| 39 | 51.3 | 42.2 | 63.4 |

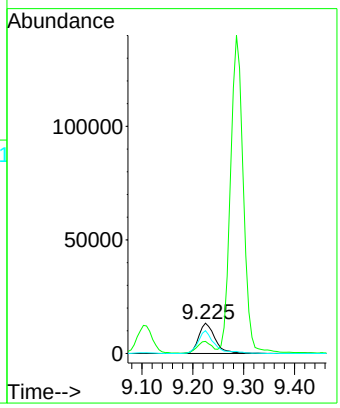





#49
1,4-Dioxane
Concen: 2066.774 ug/l
RT: 9.225 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 88 Resp: 29870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 36.4 | 27.6 | 41.4 |
| 58 | 74.7 | 61.7 | 92.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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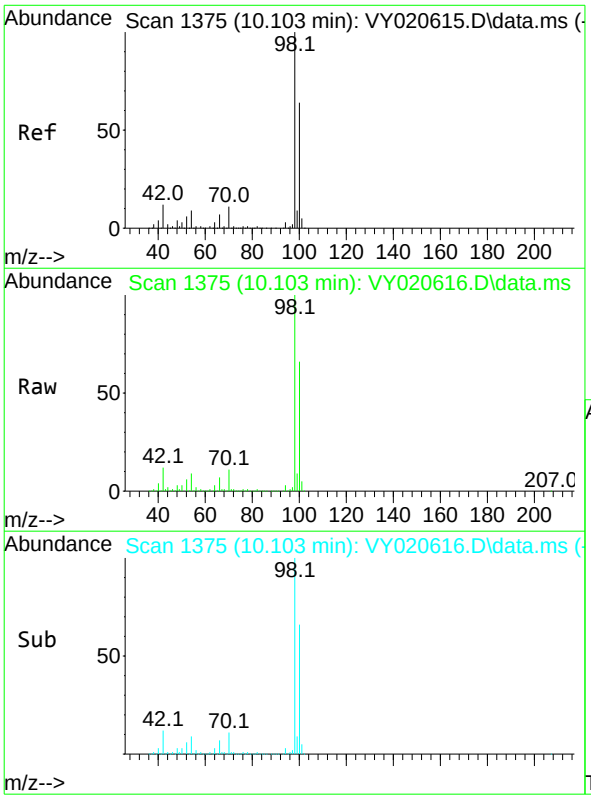
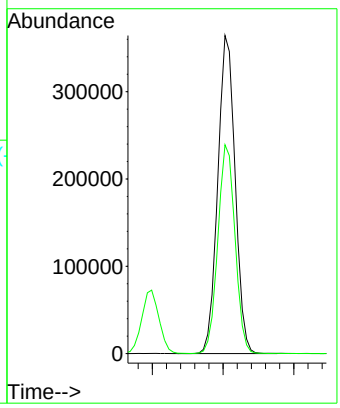
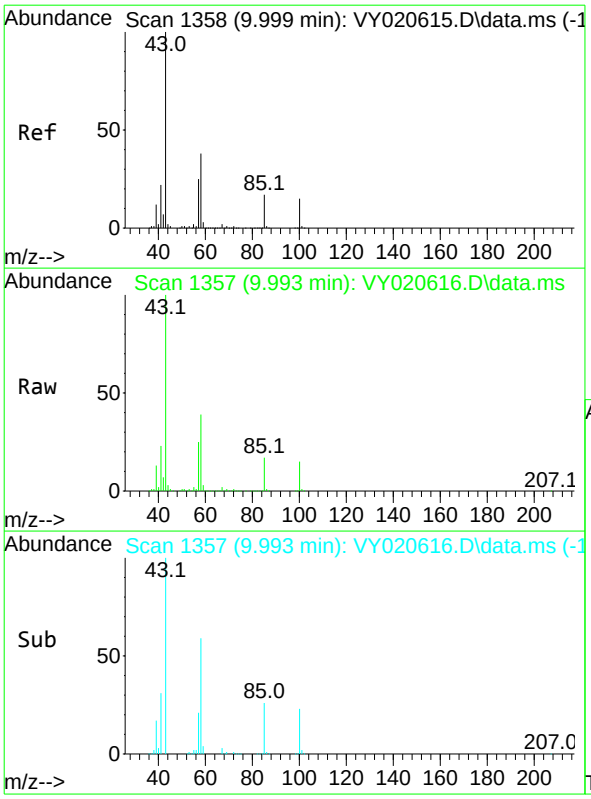



#50
Toluene-d8
Concen: 92.704 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 98 Resp: 619412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.1 | 78.1 |

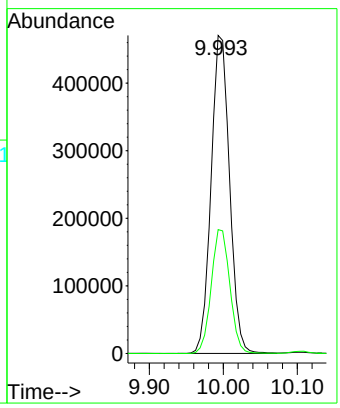





#51
4-Methyl-2-Pentanone
Concen: 498.015 ug/l
RT: 9.993 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 814840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.4 | 31.4 | 47.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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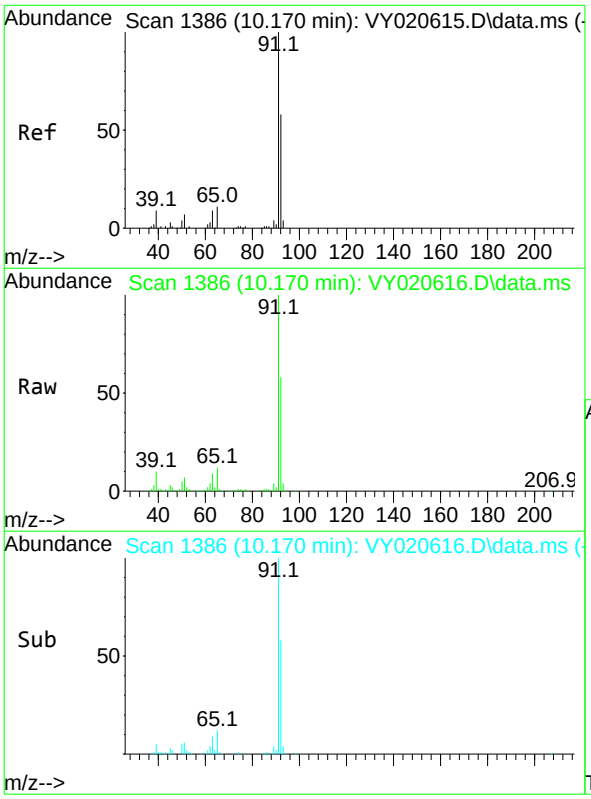
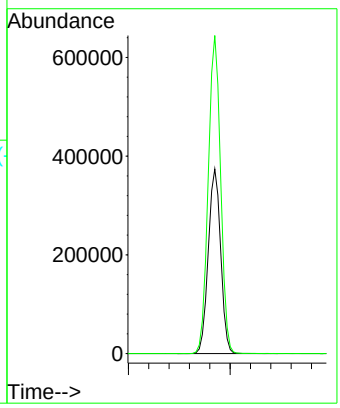
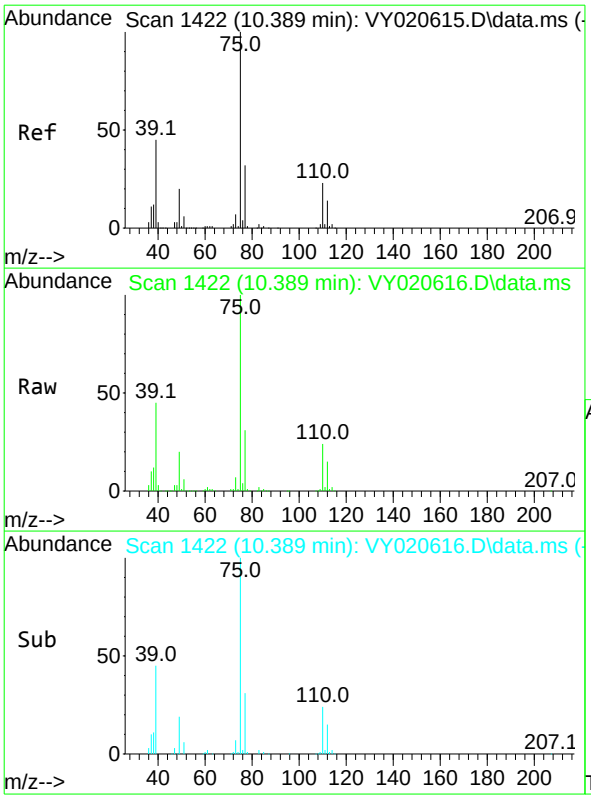



#52
Toluene
Concen: 99.573 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 92 Resp: 631368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.3 | 137.4 | 206.0 |

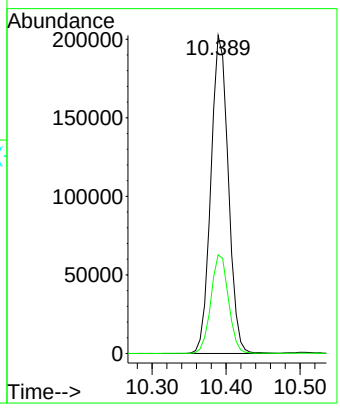





#53
t-1,3-Dichloropropene
Concen: 104.287 ug/l
RT: 10.389 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 75 Resp: 330795

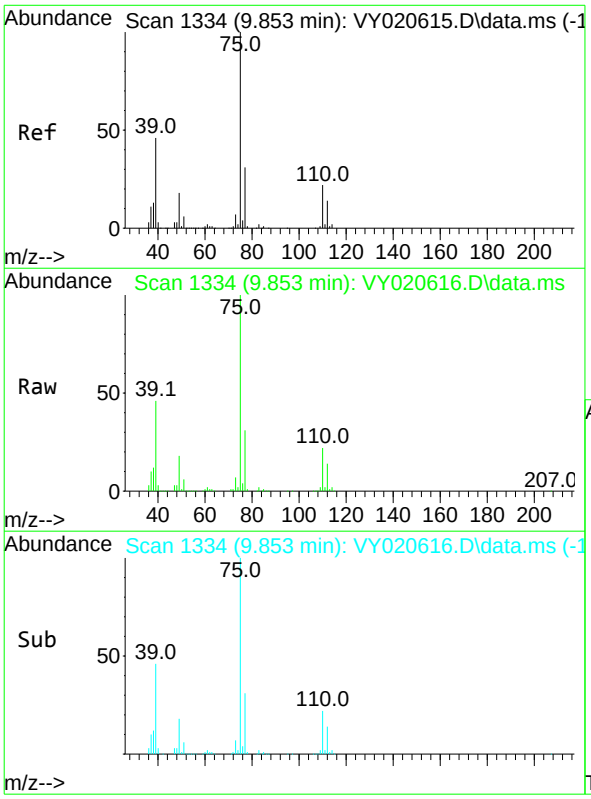
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.0 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

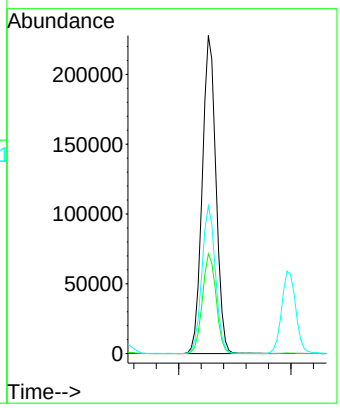
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

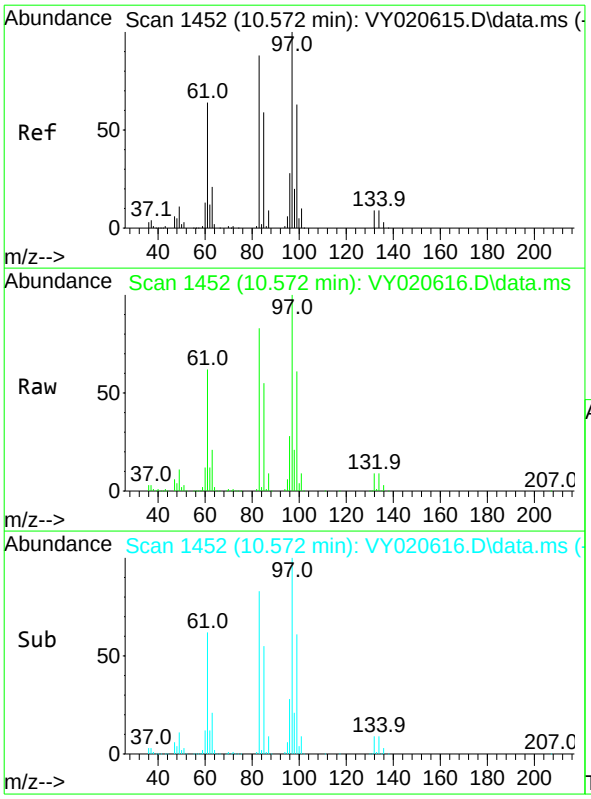



#54
cis-1,3-Dichloropropene
Concen: 102.884 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 75 Resp: 386715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 24.6 | 36.8 |
| 39 | 46.4 | 36.4 | 54.6 |

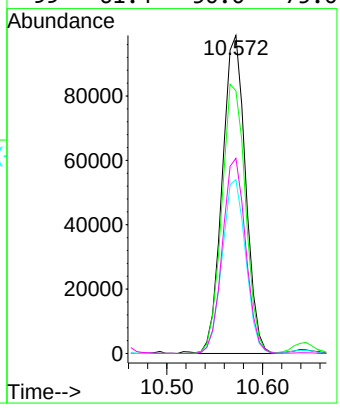





#55
1,1,2-Trichloroethane
Concen: 100.352 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 97 Resp: 167205

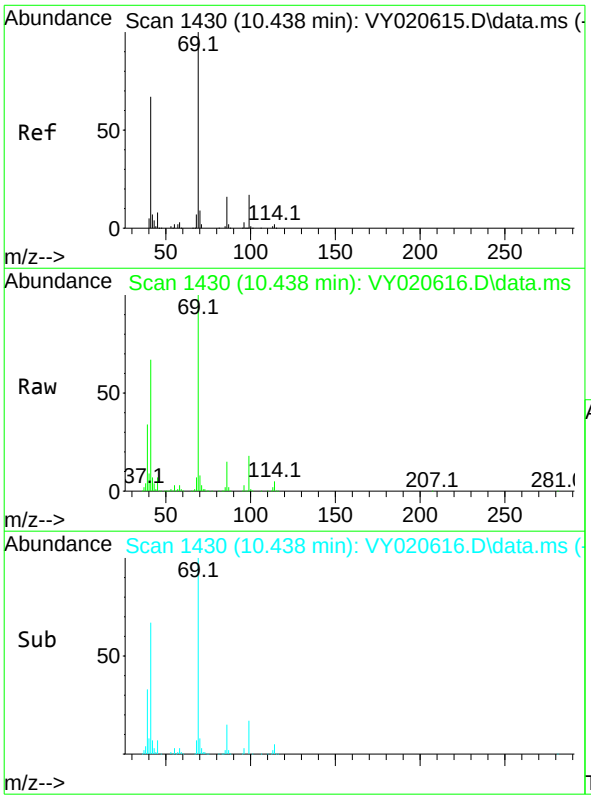
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.6 | 70.4 | 105.6 |
| 85 | 54.6 | 47.2 | 70.8 |
| 99 | 61.4 | 50.0 | 75.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

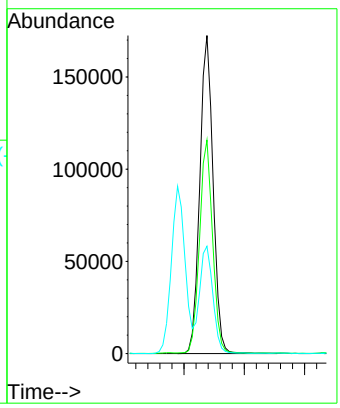
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

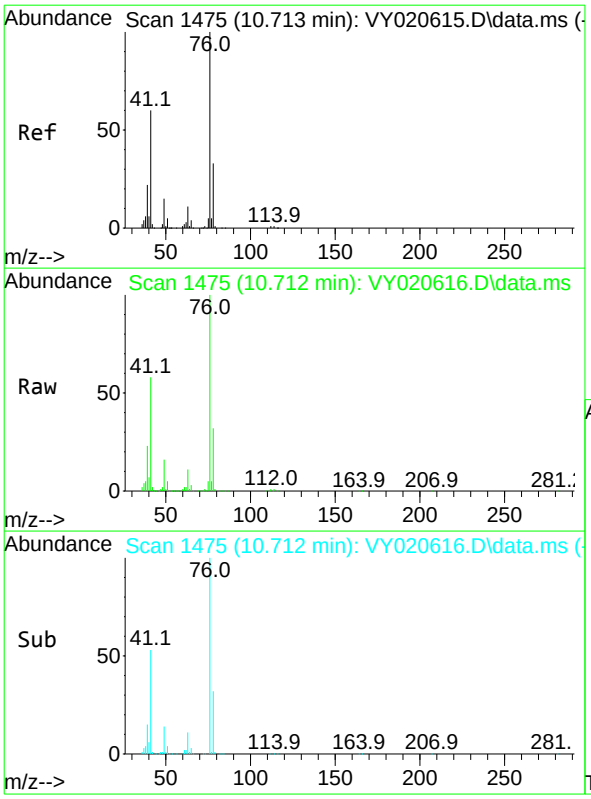



#56
Ethyl methacrylate
Concen: 109.090 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 69 Resp: 263694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.8 | 54.0 | 81.0 |
| 39 | 34.1 | 27.9 | 41.9 |

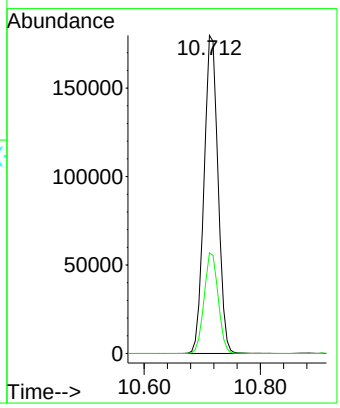





#57
1,3-Dichloropropane
Concen: 100.965 ug/l
RT: 10.712 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 76 Resp: 299884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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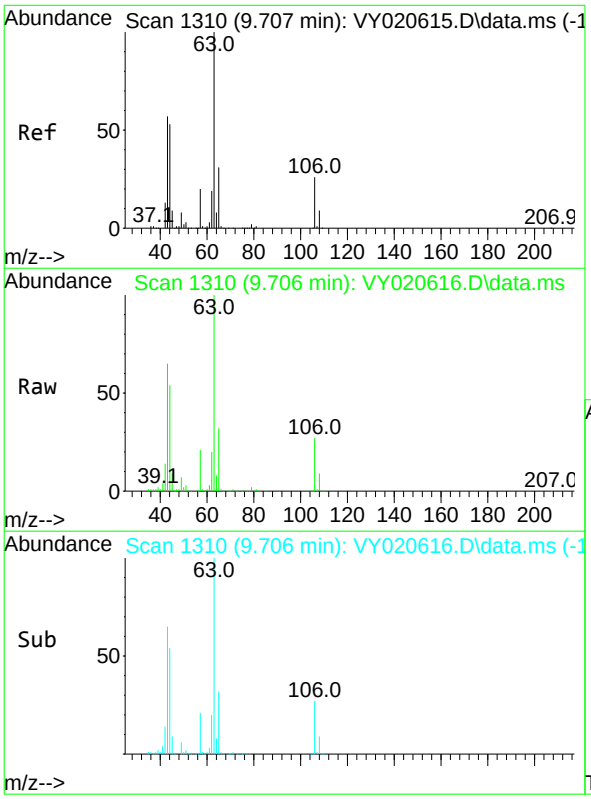
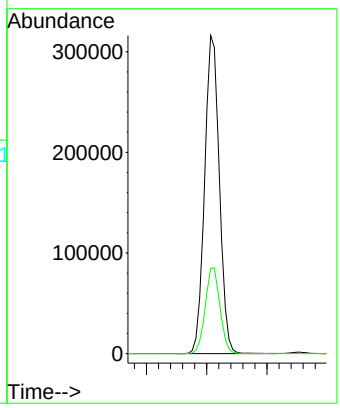
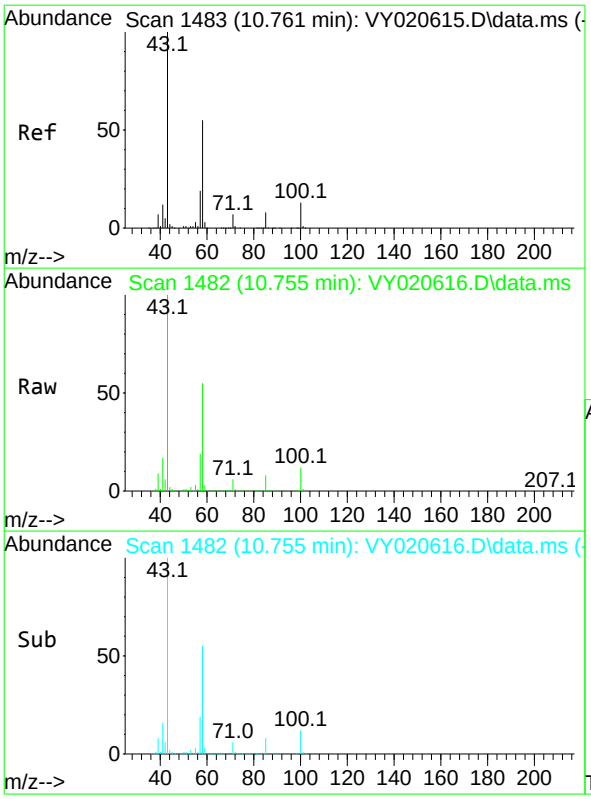



#58
2-Chloroethyl Vinyl ether
Concen: 527.303 ug/l
RT: 9.706 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 63 Resp: 536306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.1 | 21.5 | 32.3 |

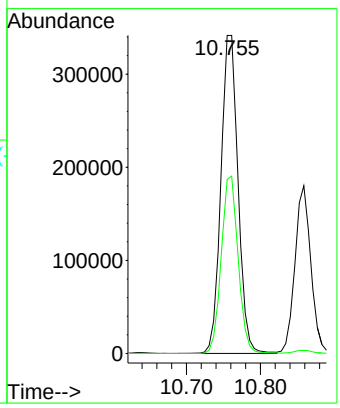





#59
2-Hexanone
Concen: 521.929 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 548285

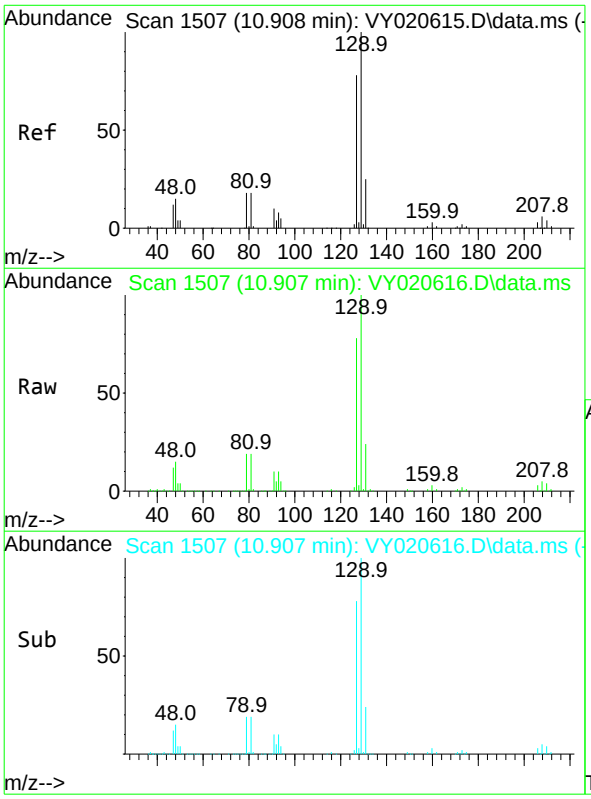
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.0 | 27.2 | 81.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

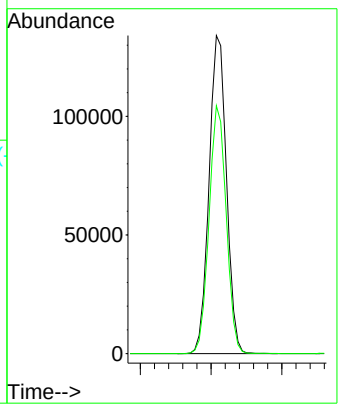
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

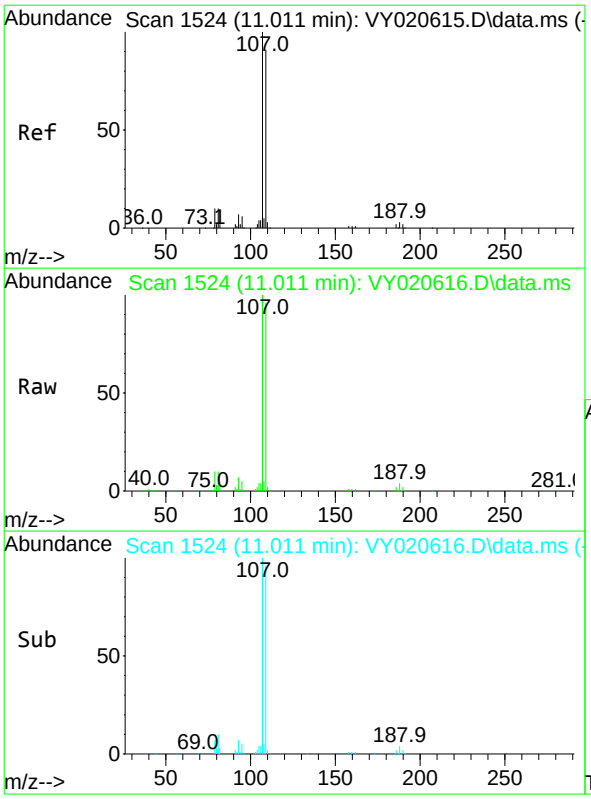



#60
Dibromochloromethane
Concen: 102.389 ug/l
RT: 10.907 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:129 Resp: 228154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 38.1 | 114.3 |

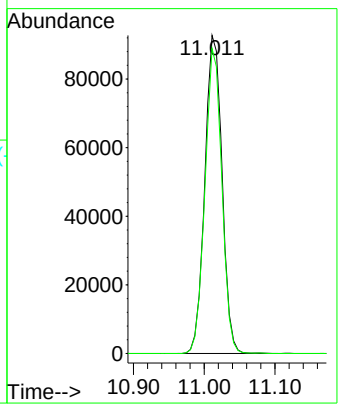





#61
1,2-Dibromoethane
Concen: 101.225 ug/l
RT: 11.011 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:107 Resp: 156883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.0 | 75.4 | 113.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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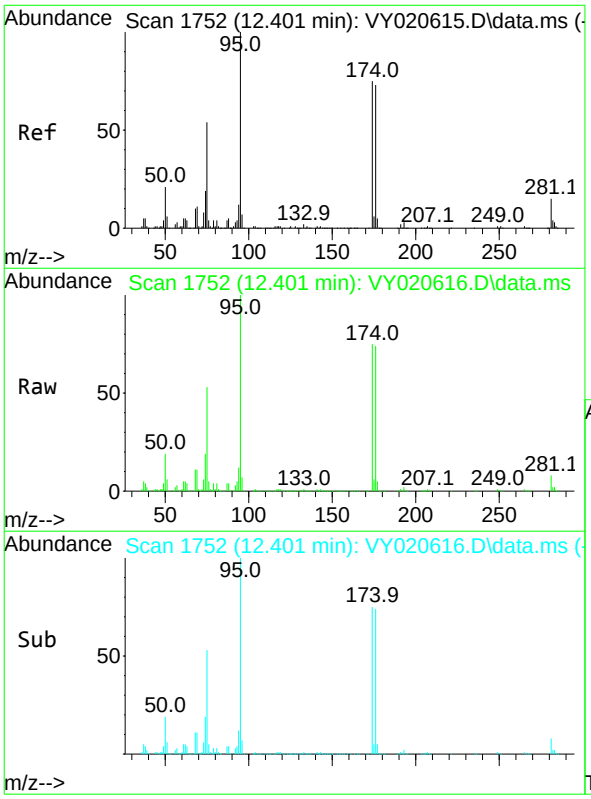
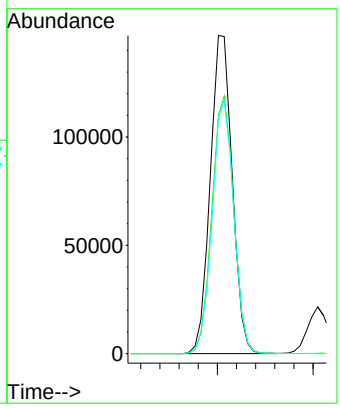
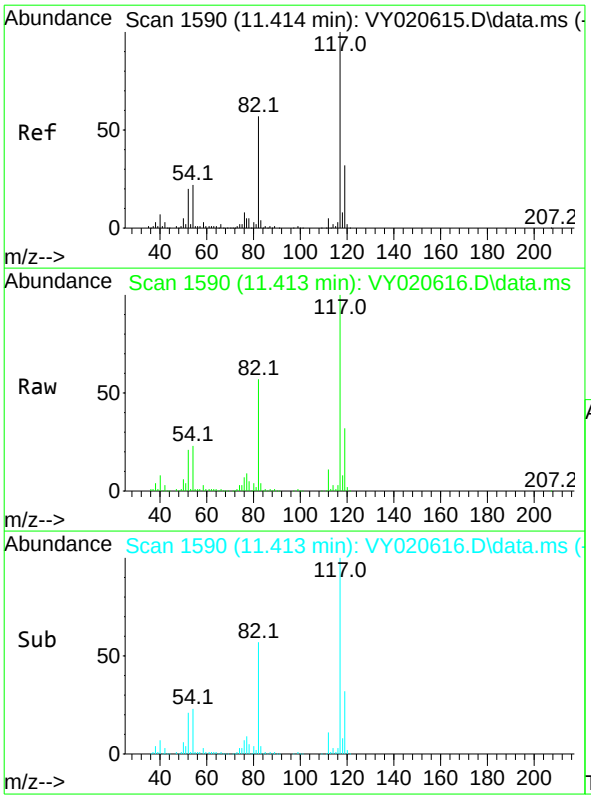



#62
4-Bromofluorobenzene
Concen: 89.665 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 95 Resp: 234353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.4 | 0.0 | 161.8 |
| 176 | 78.3 | 0.0 | 156.6 |

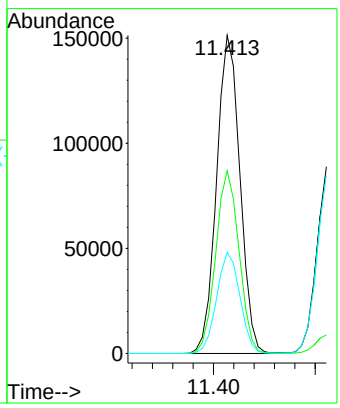





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:117 Resp: 241570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.4 | 45.8 | 68.6 |
| 119 | 31.8 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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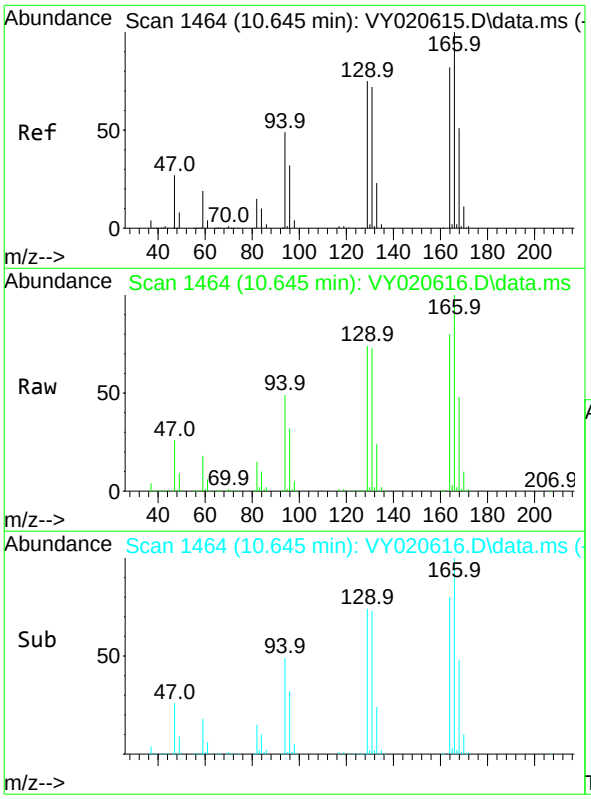
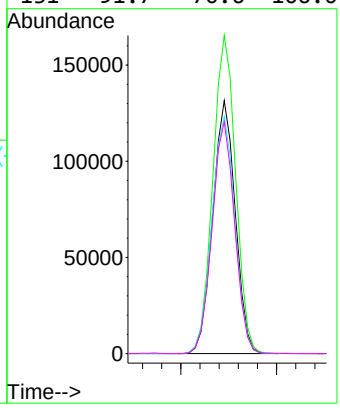
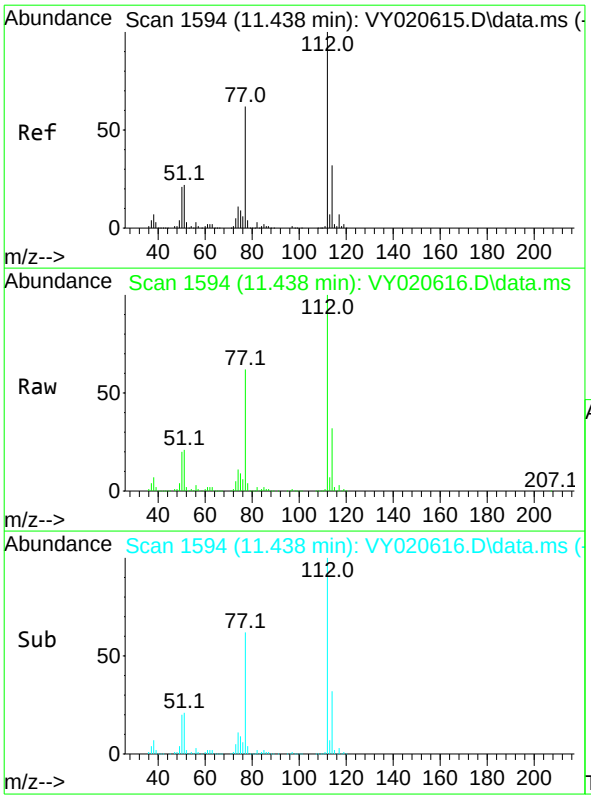



#64
Tetrachloroethene
Concen: 94.803 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:164 Resp: 215415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.7 | 97.9 | 146.9 |
| 129 | 93.6 | 73.4 | 110.0 |
| 131 | 91.7 | 70.6 | 106.0 |

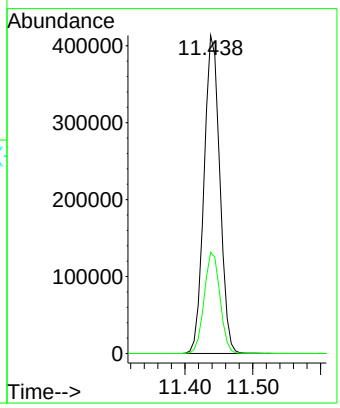





#65
Chlorobenzene
Concen: 98.800 ug/l
RT: 11.438 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:112 Resp: 667347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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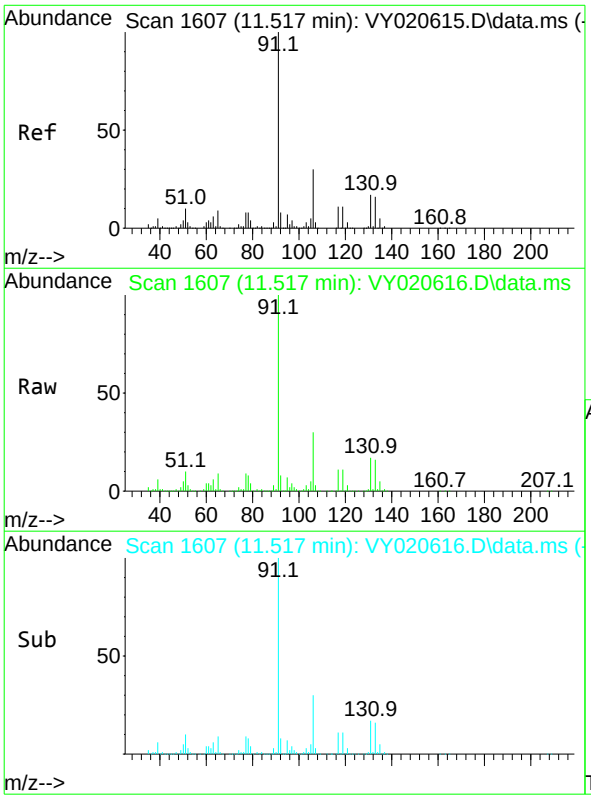
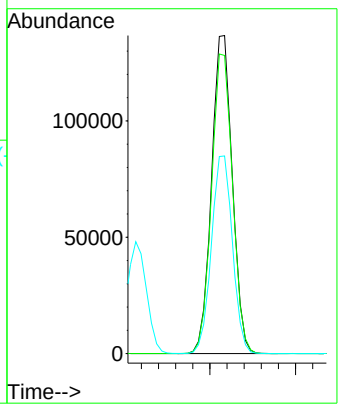
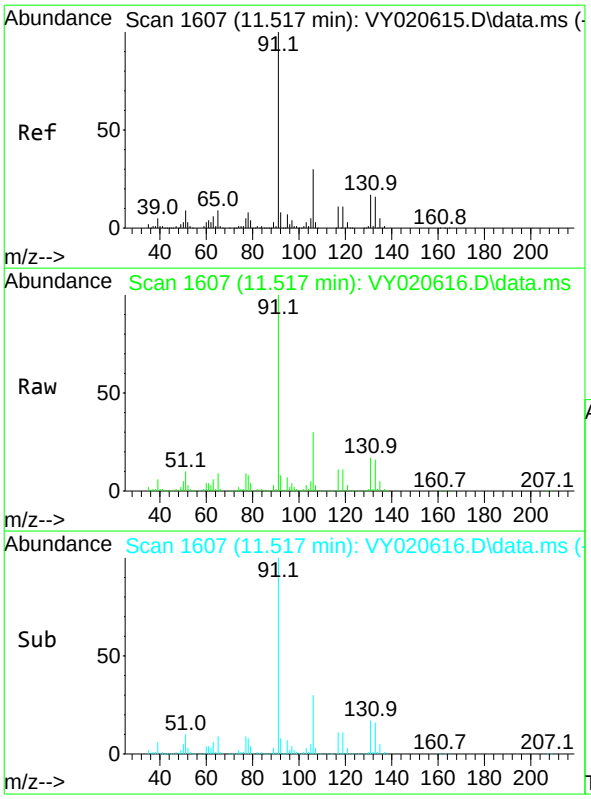



#66
1,1,1,2-Tetrachloroethane
Concen: 99.489 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:131 Resp: 229790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.2 | 46.8 | 140.3 |
| 119 | 63.1 | 31.8 | 95.3 |

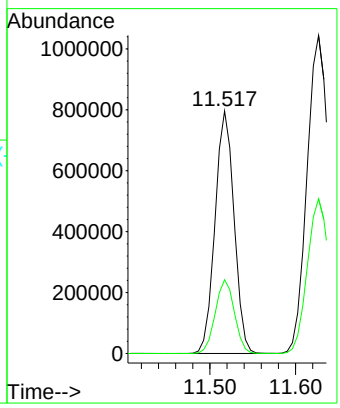





#67
Ethyl Benzene
Concen: 98.607 ug/l
RT: 11.517 min Scan# 16
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 91 Resp: 1228775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 23.9 | 35.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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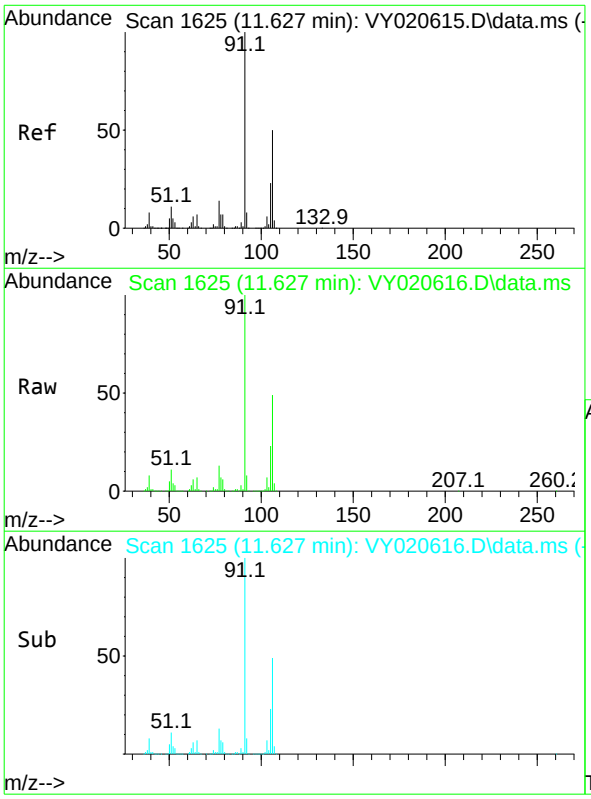
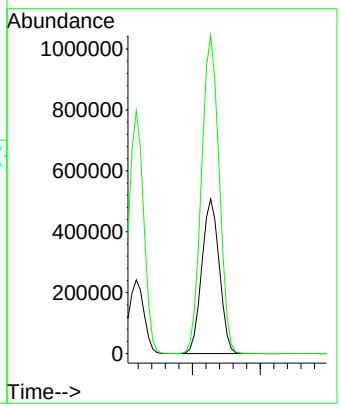
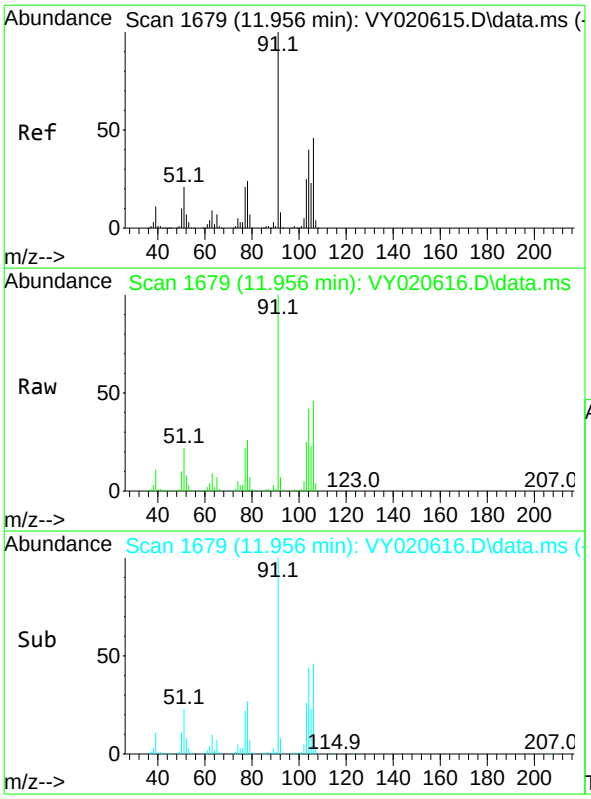



#68
m/p-Xylenes
Concen: 196.521 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:106 Resp: 910536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.4 | 165.0 | 247.4 |

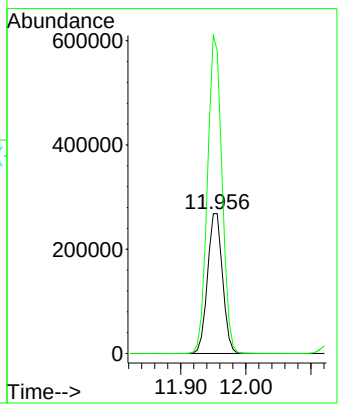





#69
o-Xylene
Concen: 99.174 ug/l
RT: 11.956 min Scan# 16
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:106 Resp: 428727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 221.0 | 108.4 | 325.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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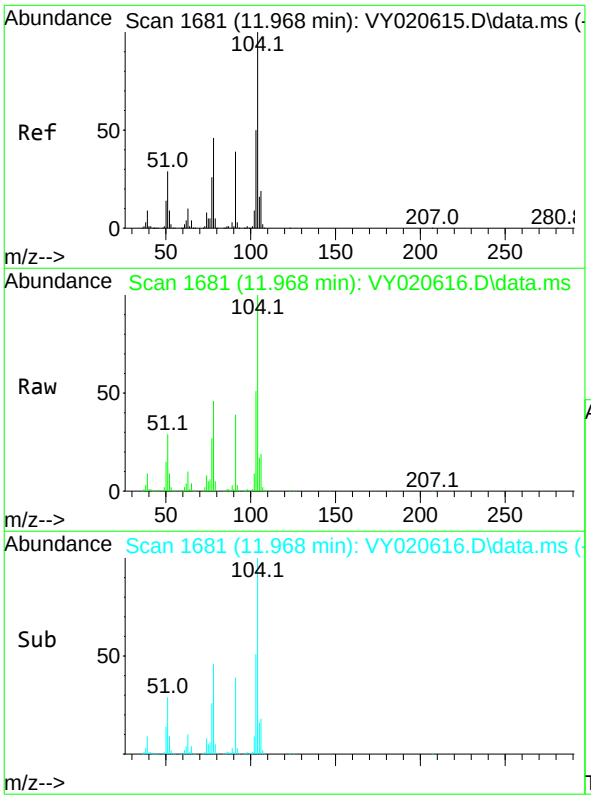
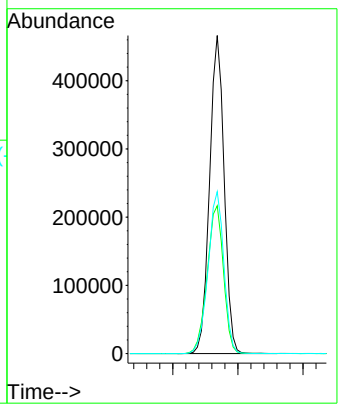
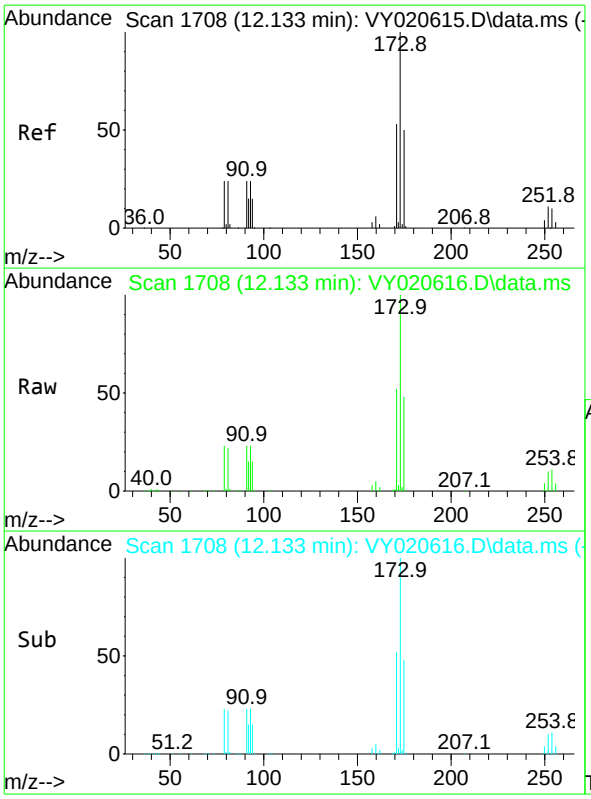



#70
Styrene
Concen: 100.401 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:104 Resp: 725167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.1 | 41.6 | 62.4 |
| 103 | 55.1 | 43.7 | 65.5 |

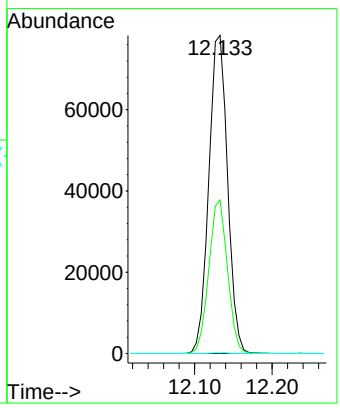





#71
Bromoform
Concen: 101.332 ug/l
RT: 12.133 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:173 Resp: 131589

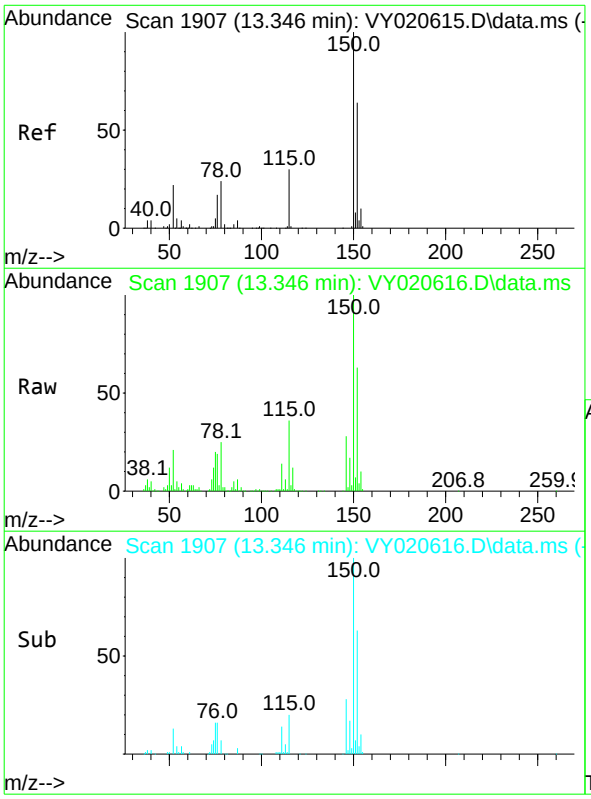
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 24.6 | 74.0 |
| 254 | 0.2 | 0.0 | 0.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

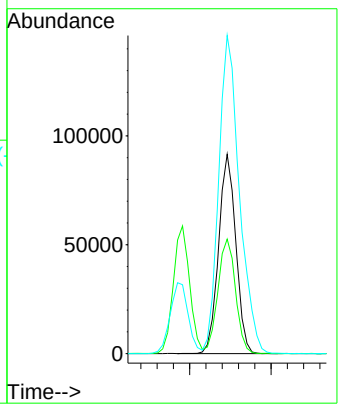
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

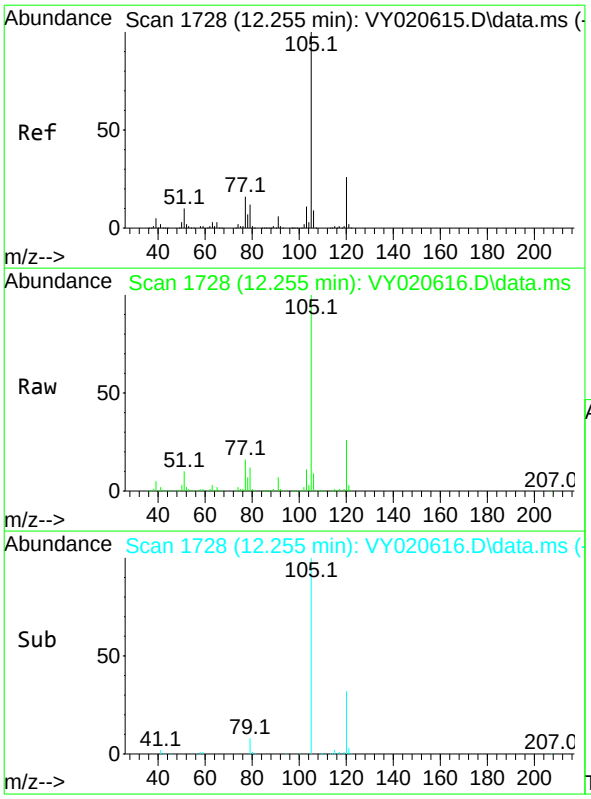



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:152 Resp: 134321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.0 | 30.2 | 90.6 |
| 150 | 192.3 | 0.0 | 355.4 |

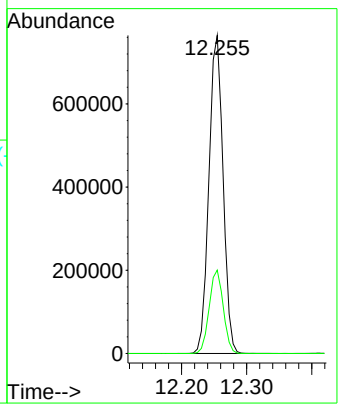





#73
Isopropylbenzene
Concen: 98.191 ug/l
RT: 12.255 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:105 Resp: 1150948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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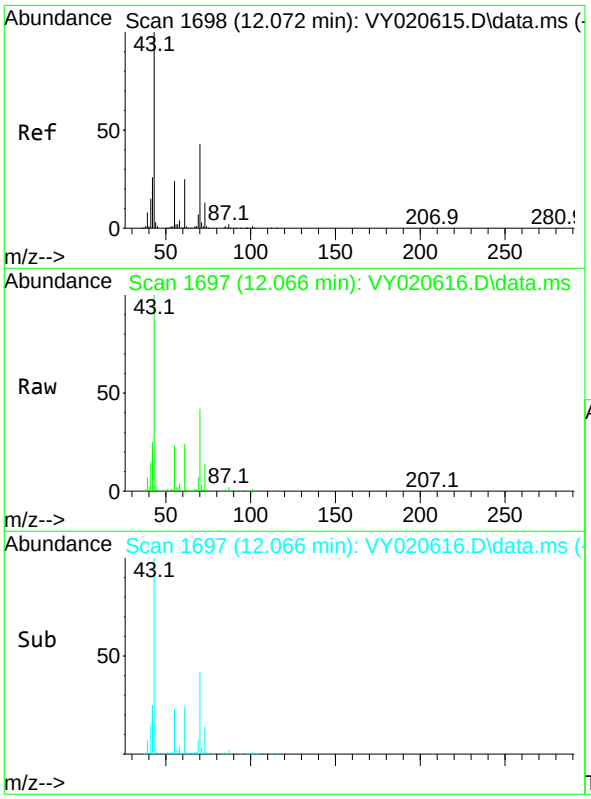
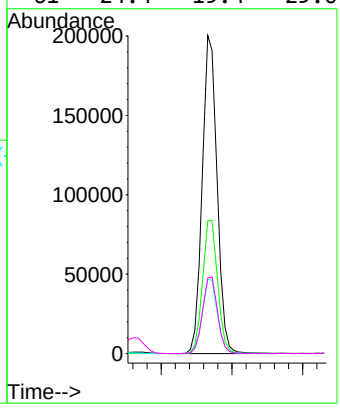
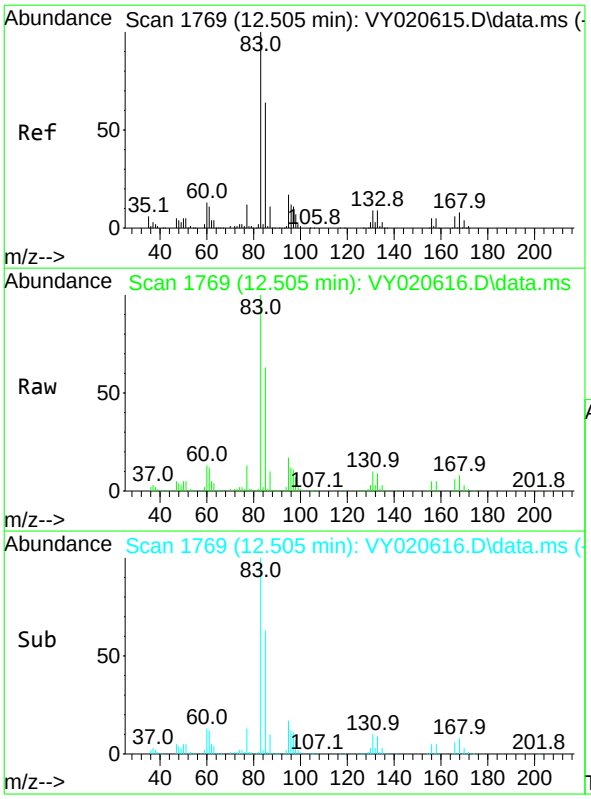



#74
N-amyl acetate
Concen: 106.582 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 292377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.6 | 34.2 | 51.2 |
| 55 | 23.8 | 19.6 | 29.4 |
| 61 | 24.4 | 19.4 | 29.0 |

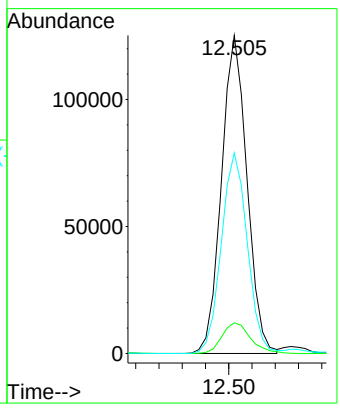





#75
1,1,2,2-Tetrachloroethane
Concen: 100.209 ug/l
RT: 12.505 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 83 Resp: 190664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.8 | 5.2 | 15.6 |
| 85 | 64.4 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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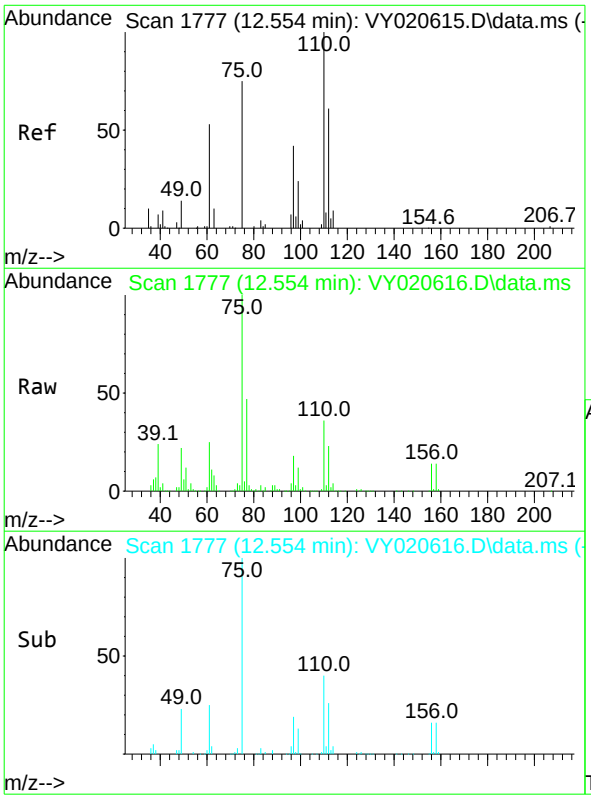
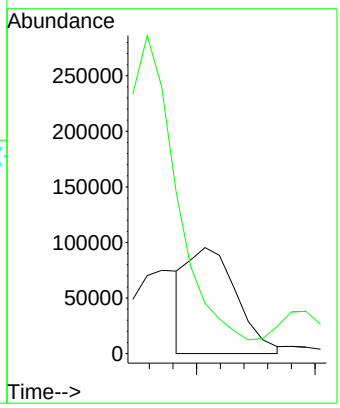
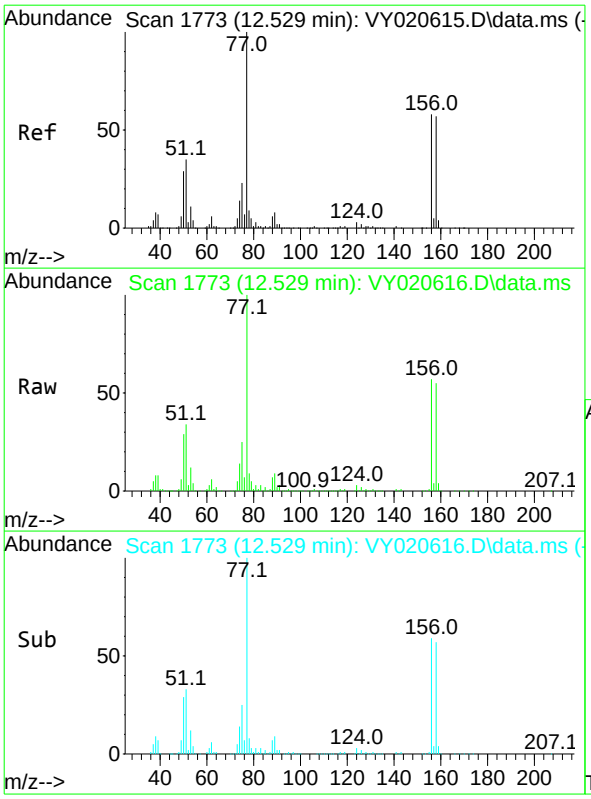



#76
1,2,3-Trichloropropane
Concen: 99.183 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 75 Resp: 137213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |






#77
Bromobenzene
Concen: 99.317 ug/l
RT: 12.529 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:156 Resp: 253587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 188.7 | 94.2 | 282.4 |
| 158 | 97.2 | 48.9 | 146.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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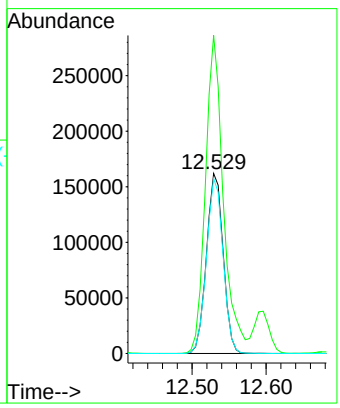
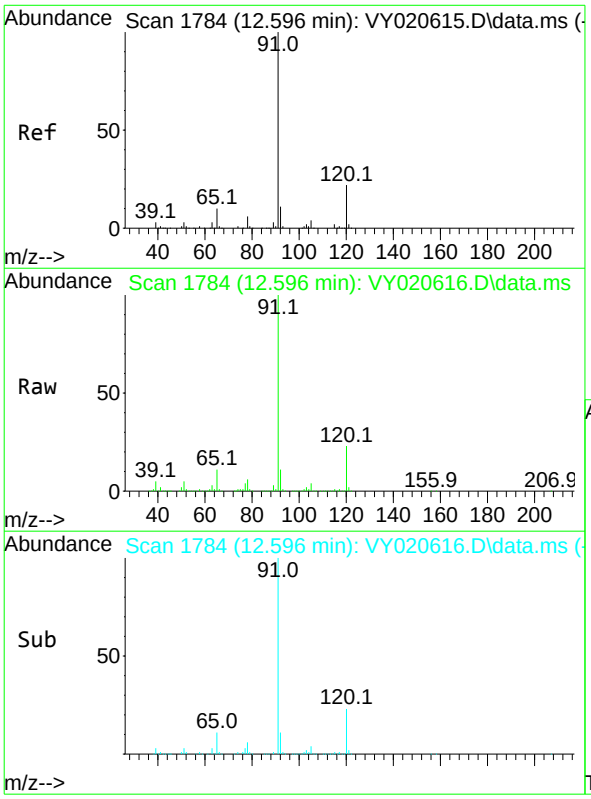
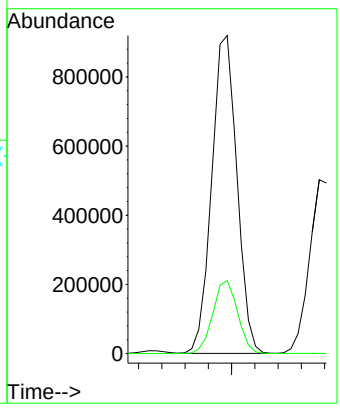


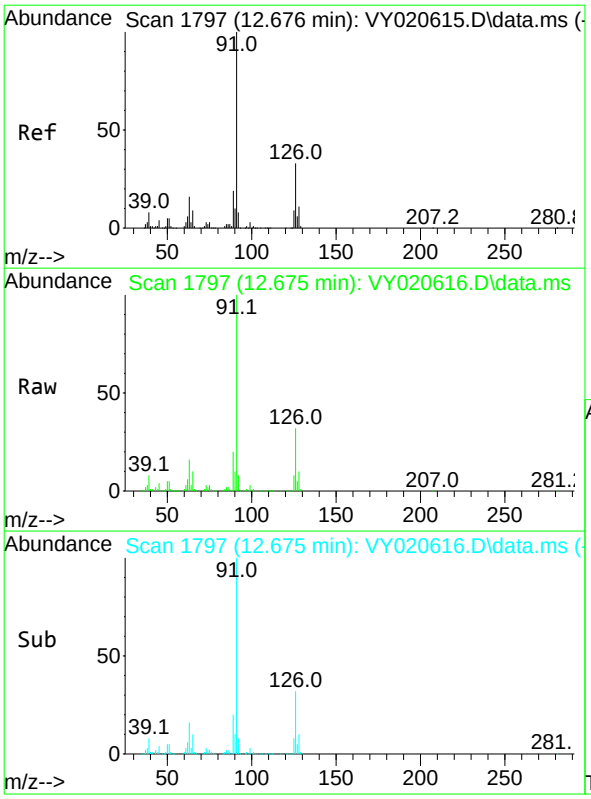




#78
n-propylbenzene
Concen: 97.980 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 91 Resp: 1383699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.6 | 11.1 | 33.1 |

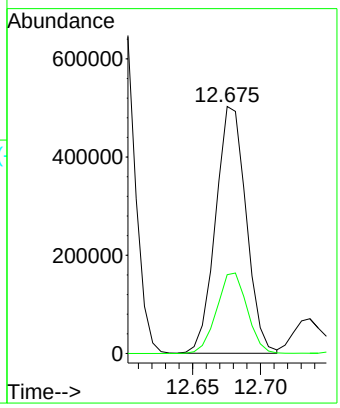





#79
2-Chlorotoluene
Concen: 99.147 ug/l
RT: 12.675 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 91 Resp: 787764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.5 | 16.6 | 49.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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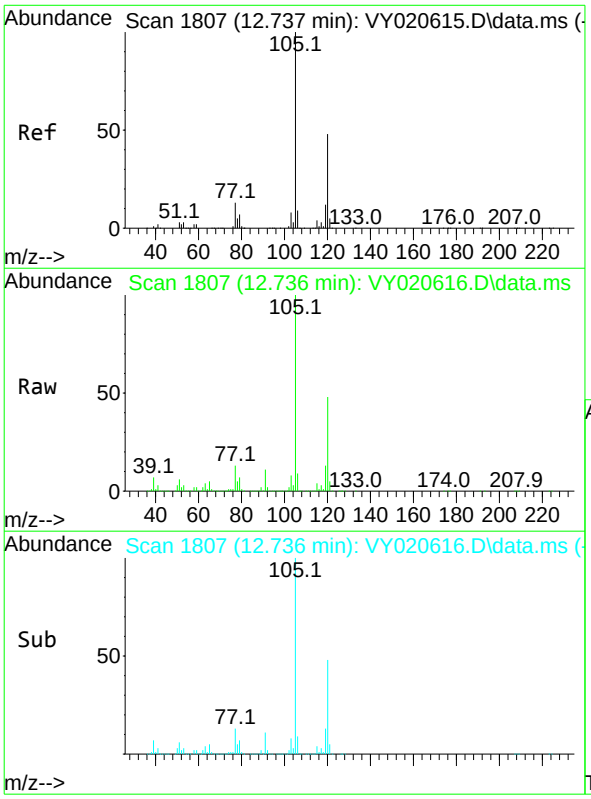
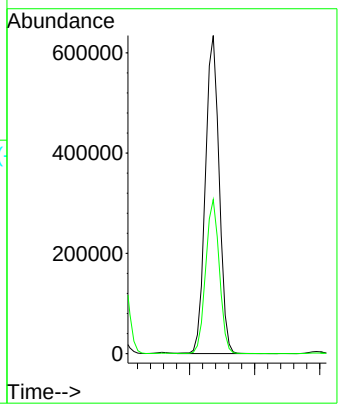
Supervised By :Semsettin Yesilyurt 12/18/2024

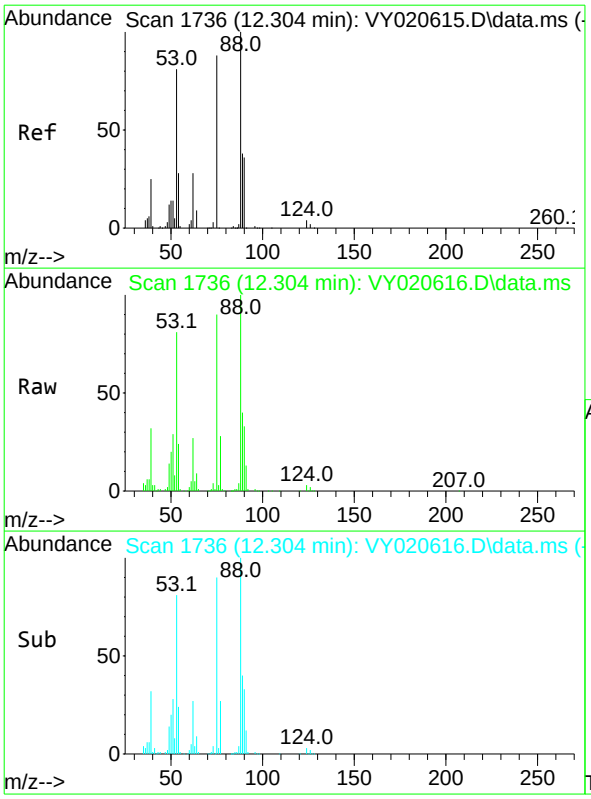



#80
1,3,5-Trimethylbenzene
Concen: 98.108 ug/l
RT: 12.736 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:105 Resp: 933106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.9 | 71.7 |

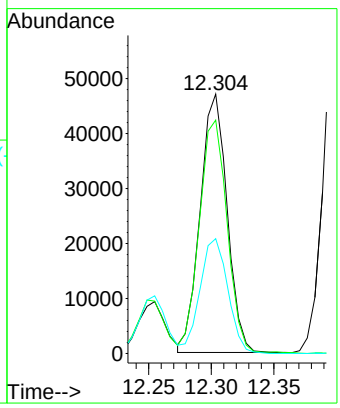





#81
trans-1,4-Dichloro-2-butene
Concen: 105.852 ug/l
RT: 12.304 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 75 Resp: 70365

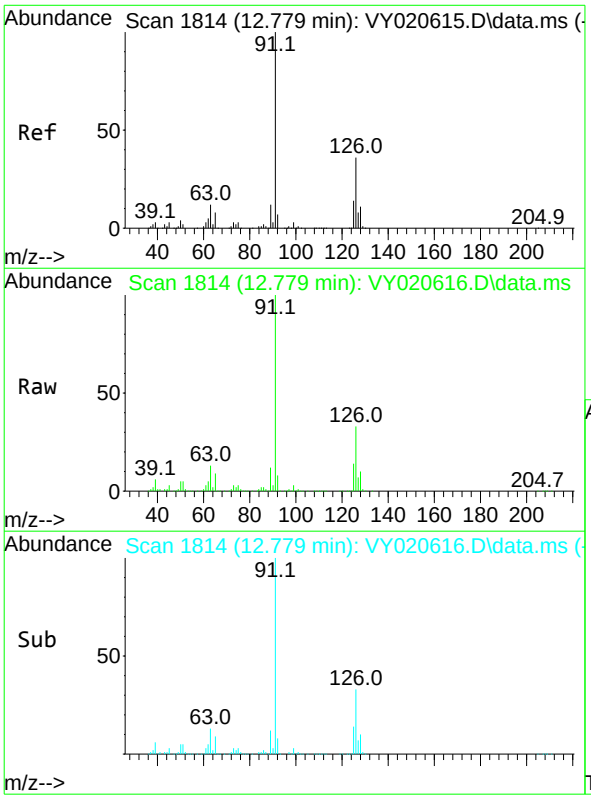
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 94.0 | 75.4 | 113.2 |
| 89 | 46.2 | 37.0 | 55.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

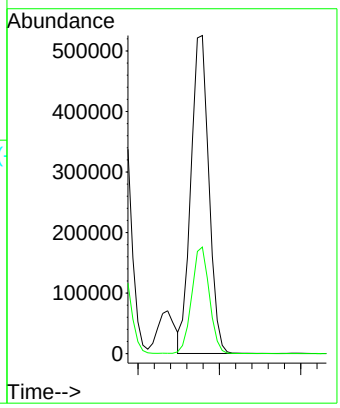
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

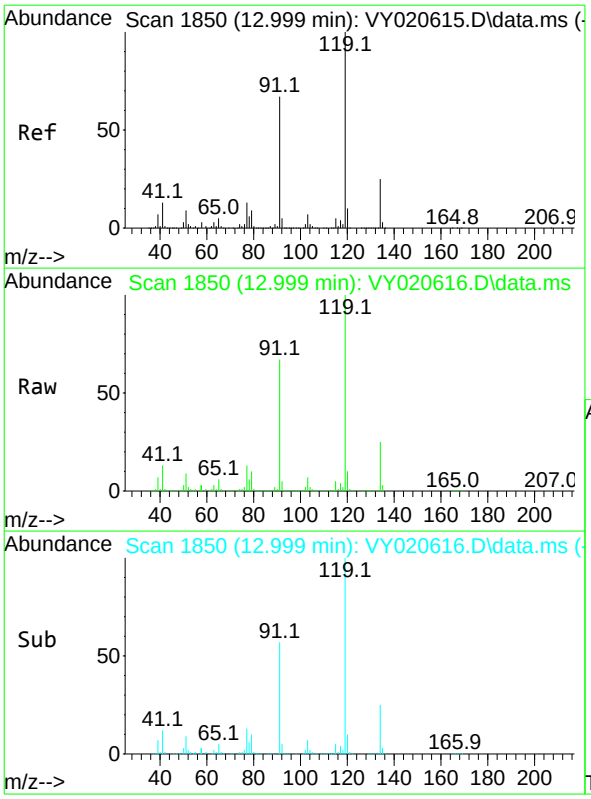



#82
4-Chlorotoluene
Concen: 97.558 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 91 Resp: 804177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.8 | 16.6 | 49.7 |

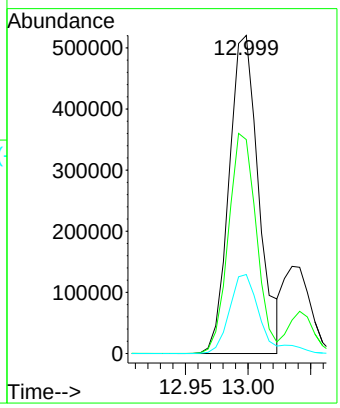





#83
tert-Butylbenzene
Concen: 99.108 ug/l
RT: 12.999 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:119 Resp: 853675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.5 | 32.9 | 98.6 |
| 134 | 26.0 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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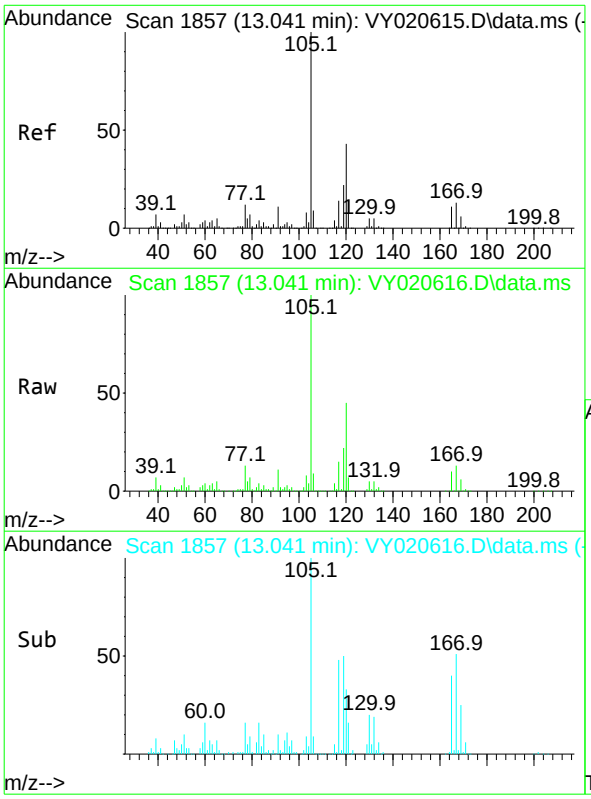
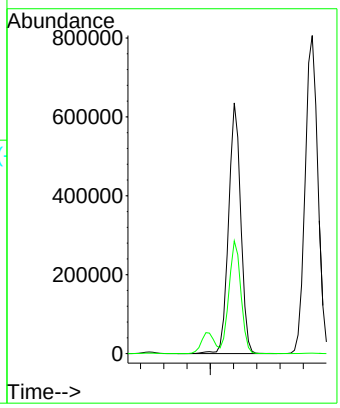
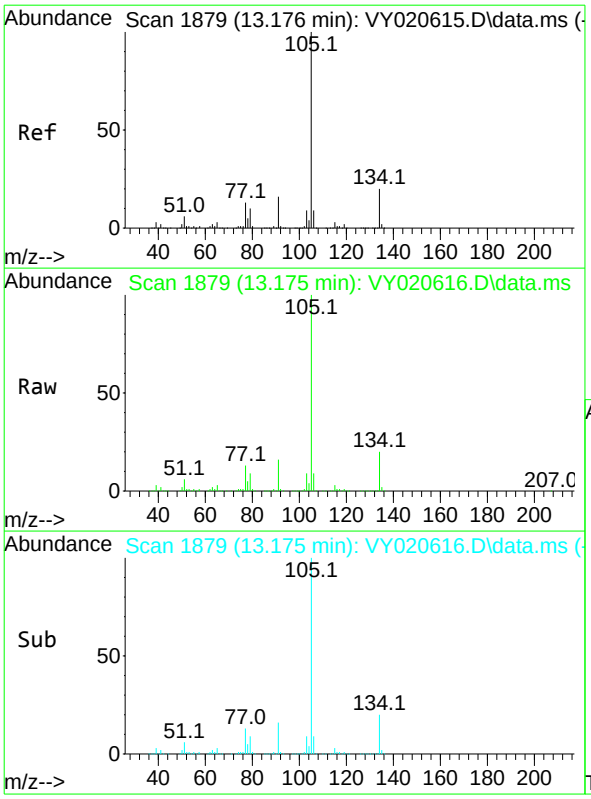



#84
1,2,4-Trimethylbenzene
Concen: 98.727 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:105 Resp: 921051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.3 | 21.8 | 65.4 |






#85
sec-Butylbenzene
Concen: 97.450 ug/l
RT: 13.175 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:105 Resp: 1220465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.0 | 30.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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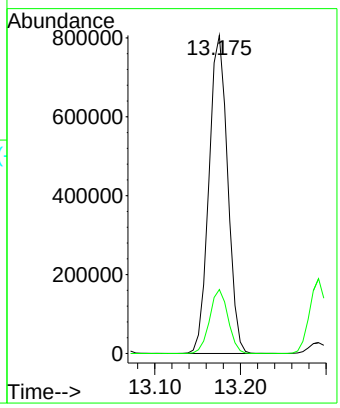
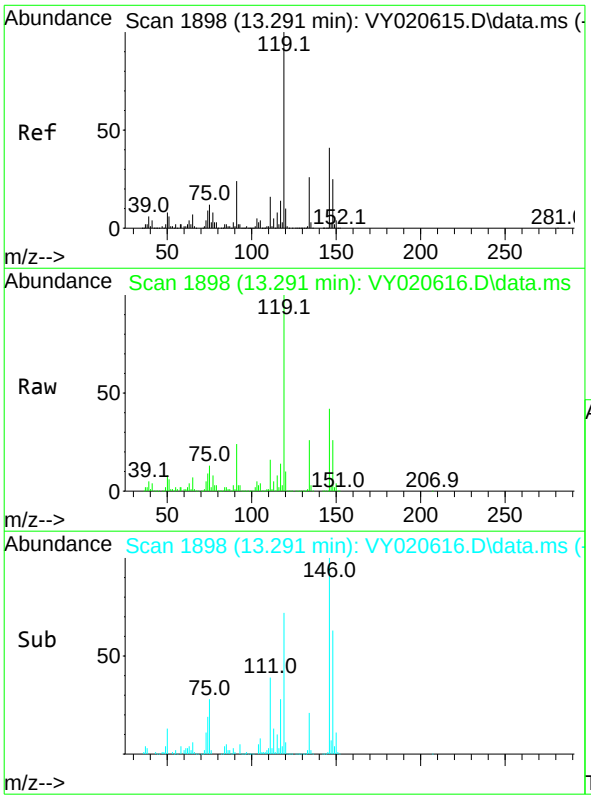
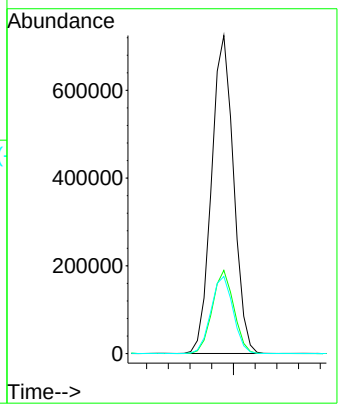


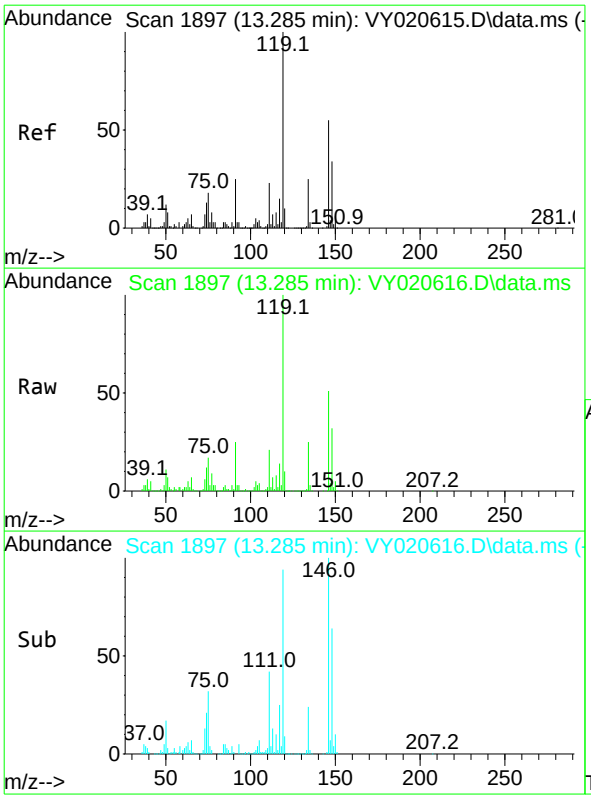




#86
p-Isopropyltoluene
Concen: 99.089 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:119 Resp: 1023181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.6 | 12.9 | 38.6 |
| 91 | 24.3 | 12.1 | 36.3 |

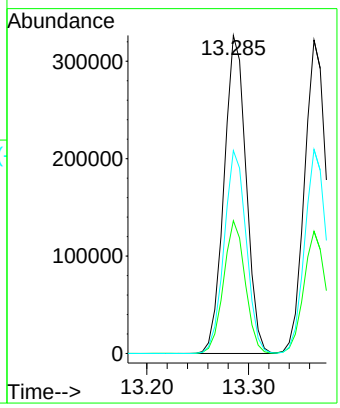





#87
1,3-Dichlorobenzene
Concen: 97.633 ug/l
RT: 13.285 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:146 Resp: 492097

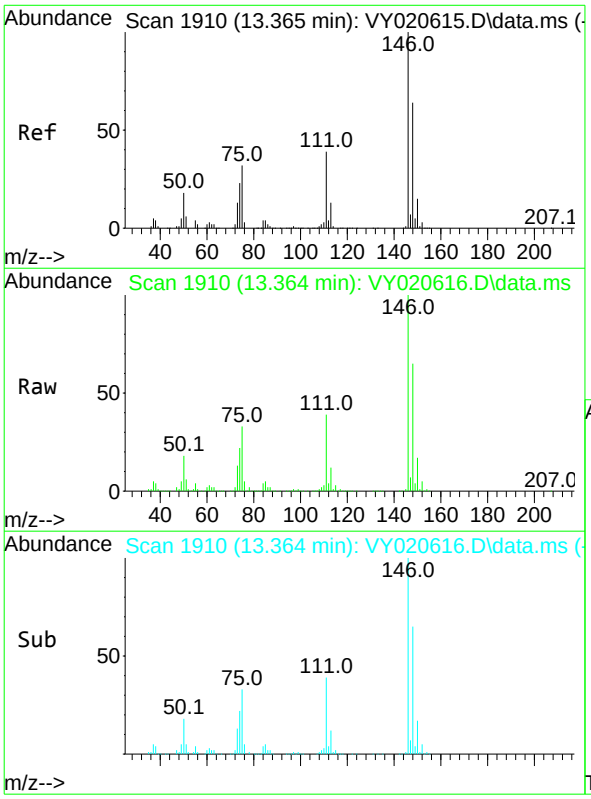
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.6 | 61.8 |
| 148 | 63.8 | 31.4 | 94.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

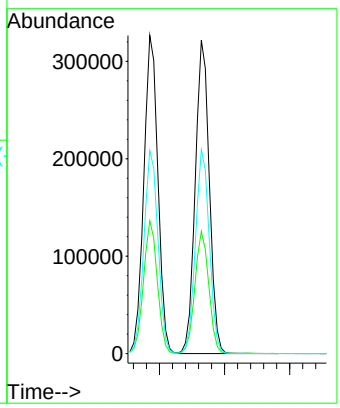
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

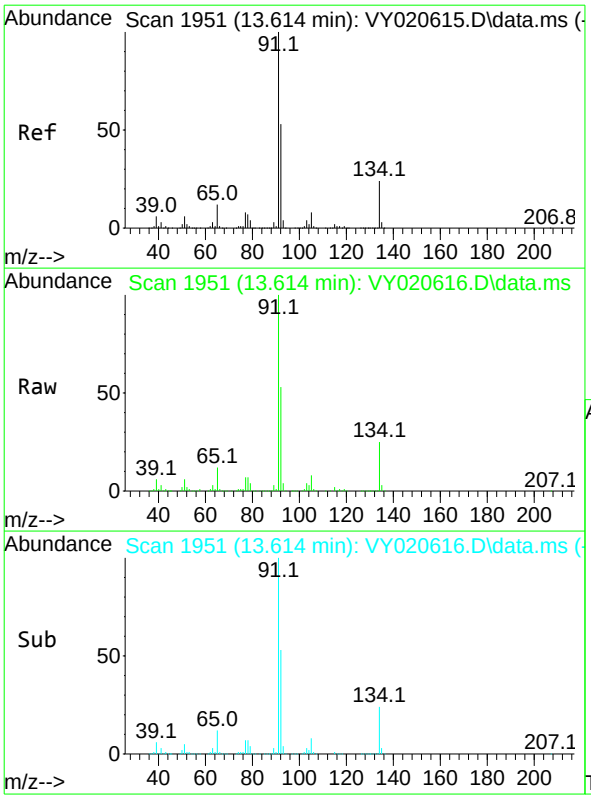



#88
1,4-Dichlorobenzene
Concen: 96.707 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:146 Resp: 482756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.7 | 19.6 | 58.7 |
| 148 | 64.1 | 31.9 | 95.5 |






#89
n-Butylbenzene
Concen: 98.789 ug/l
RT: 13.614 min Scan# 19
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

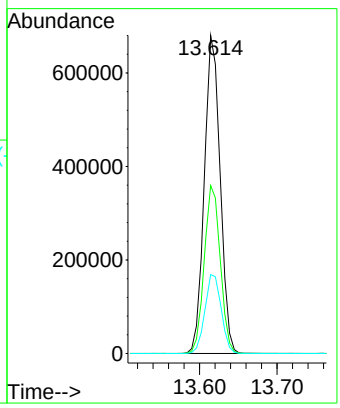
Tgt Ion: 91 Resp: 966758

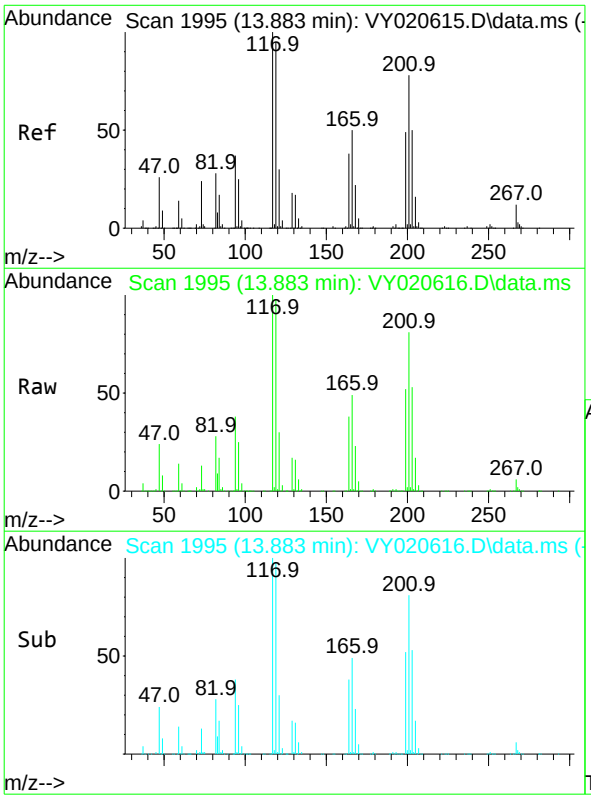
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.3 | 26.8 | 80.4 |
| 134 | 25.5 | 12.5 | 37.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

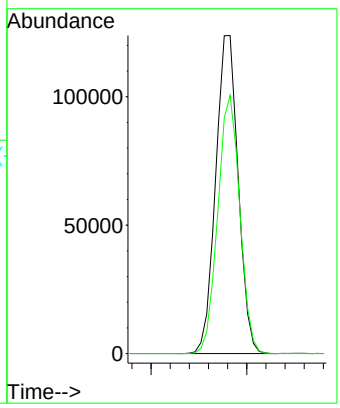


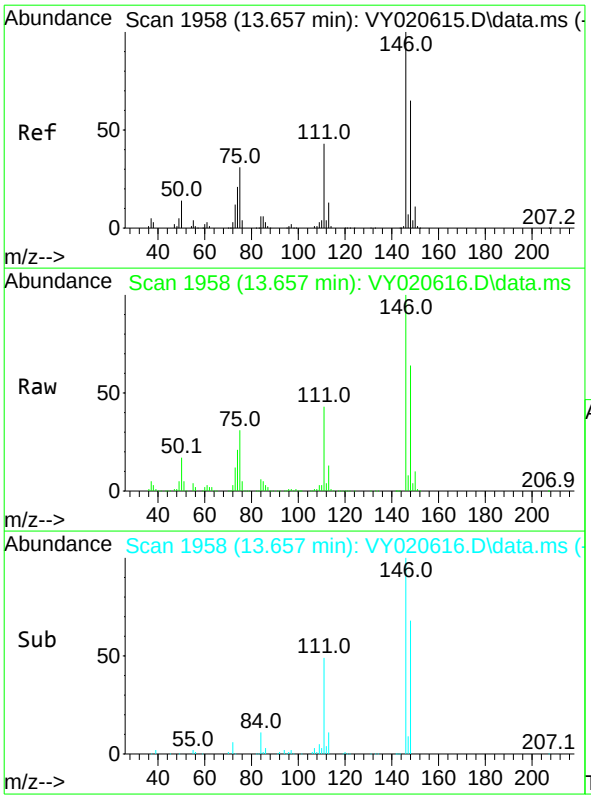




#90
Hexachloroethane
Concen: 98.910 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:117 Resp: 202399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 79.3 | 39.1 | 117.3 |

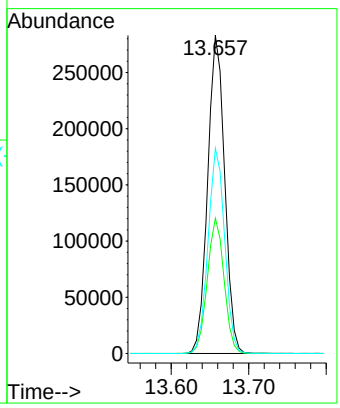





#91
1,2-Dichlorobenzene
Concen: 98.552 ug/l
RT: 13.657 min Scan# 19
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:146 Resp: 430383

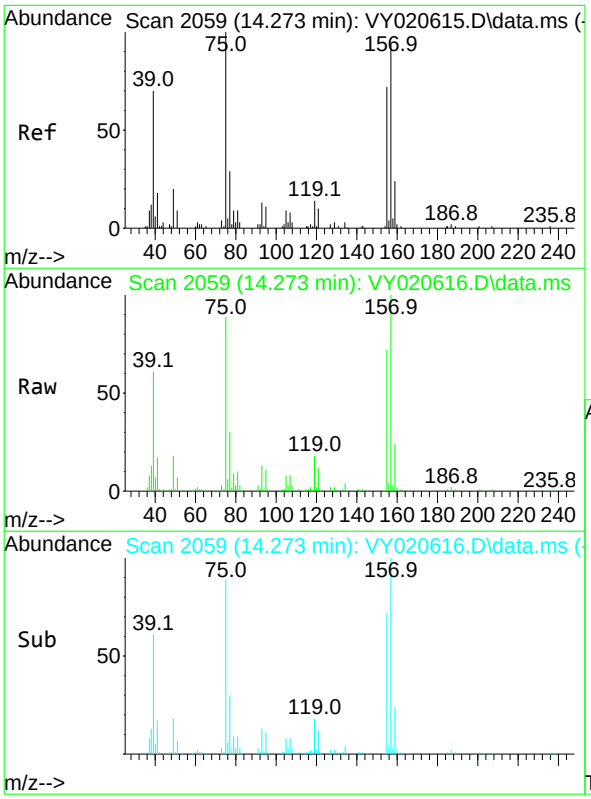
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.9 | 21.3 | 63.7 |
| 148 | 63.3 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

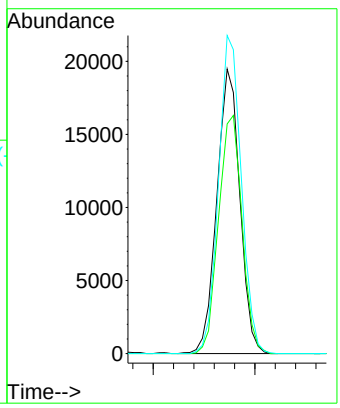
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

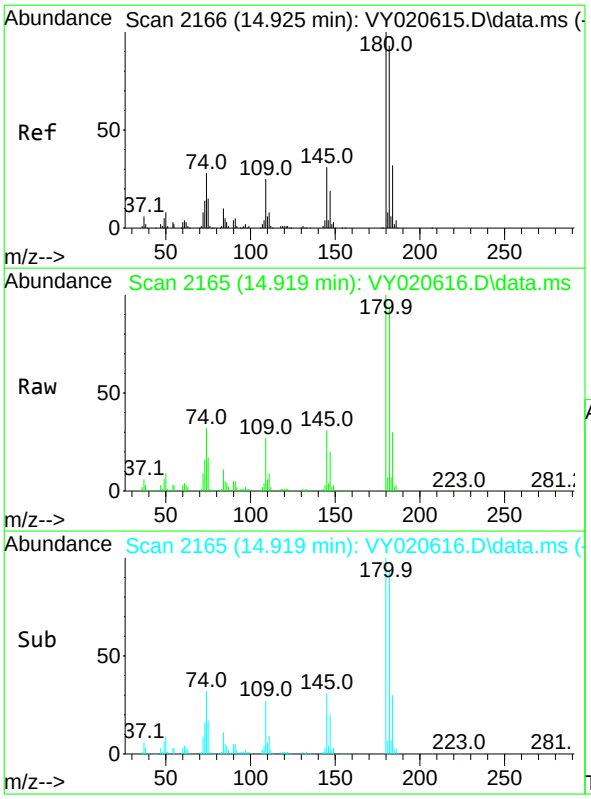



#92
1,2-Dibromo-3-Chloropropane
Concen: 99.008 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 75 Resp: 30584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 85.4 | 41.1 | 123.3 |
| 157 | 110.3 | 52.9 | 158.8 |

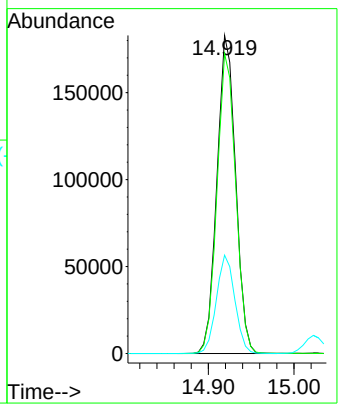





#93
1,2,4-Trichlorobenzene
Concen: 104.790 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:180 Resp: 276806

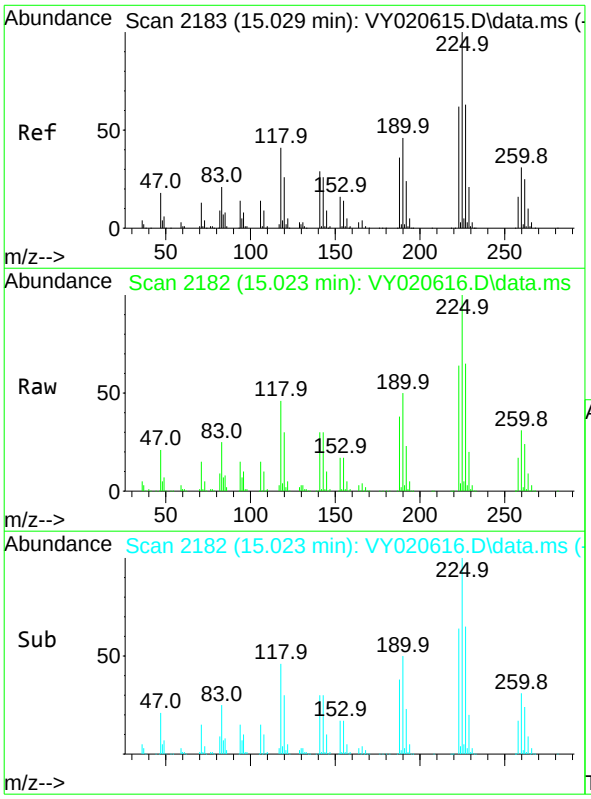
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.5 | 47.9 | 143.6 |
| 145 | 30.6 | 15.6 | 46.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

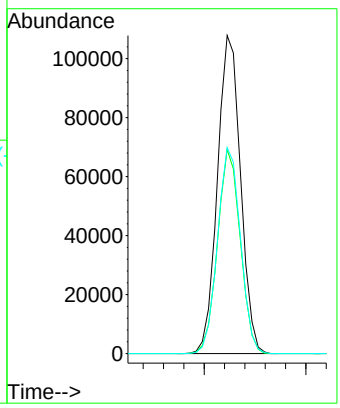
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

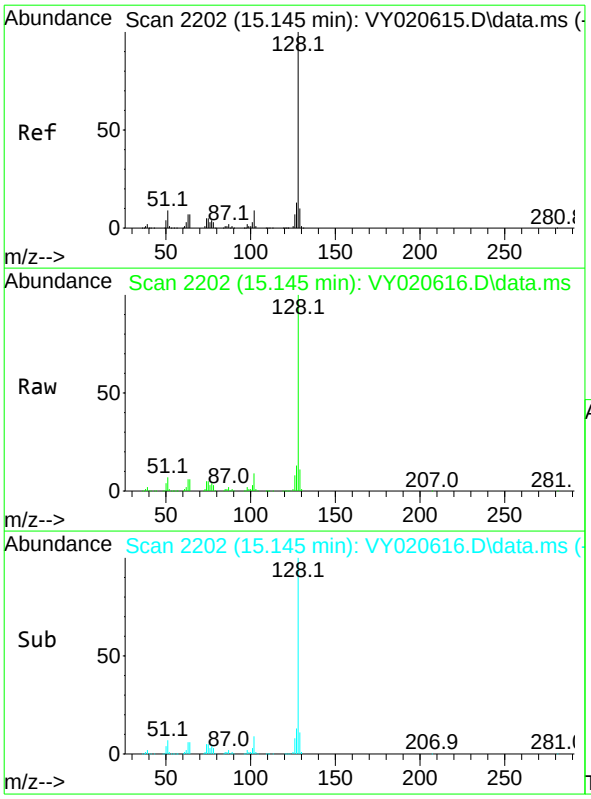



#94
Hexachlorobutadiene
Concen: 98.635 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:225 Resp: 170325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 31.8 | 95.3 |
| 227 | 64.1 | 32.2 | 96.6 |

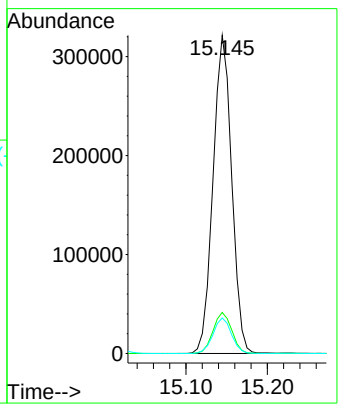





#95
Naphthalene
Concen: 113.046 ug/l
RT: 15.145 min Scan# 22
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:128 Resp: 511948

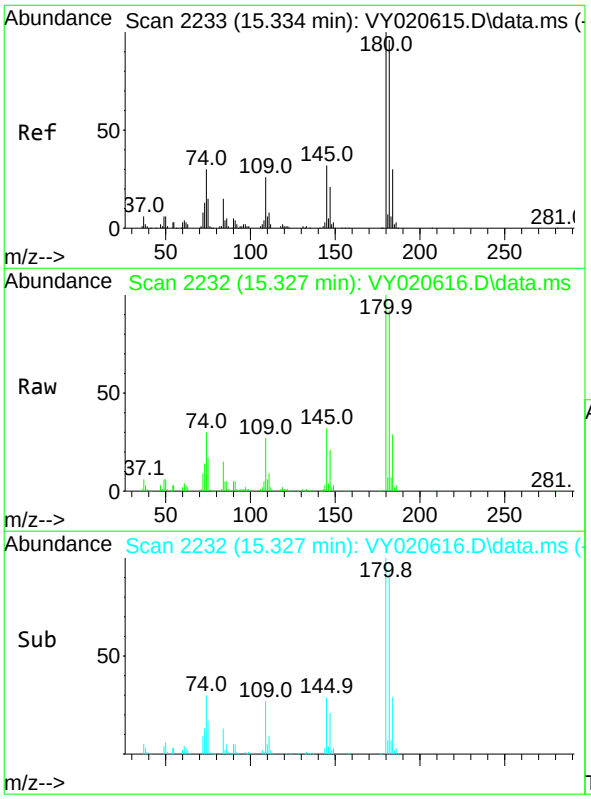
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.7 | 16.1 |
| 129 | 11.1 | 8.5 | 12.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

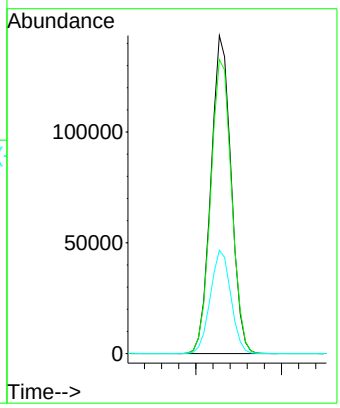
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024




#96
1,2,3-Trichlorobenzene
Concen: 105.207 ug/l
RT: 15.327 min Scan# 2232
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:180 Resp: 234803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.3 | 141.9 |
| 145 | 33.0 | 16.0 | 48.0 |



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 184362 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 278509 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 244385 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 135852 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 258496 | 128.022 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 256.040%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 261486 | 133.217 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 266.440%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 919148 | 133.785 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 267.580%# | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 343903 | 127.965 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 255.940%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 305452 | 132.646 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 205555 | 120.474 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 206764 | 130.199 | ug/l | 100 |
| 5) Bromomethane | 2.586 | 94 | 140413 | 137.550 | ug/l | 99 |
| 6) Chloroethane | 2.727 | 64 | 138821 | 141.459 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 447890 | 134.789 | ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 150374 | 129.035 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 297171 | 124.769 | ug/l | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 345686 | 130.361 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 123878 | 737.397 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 291982 | 126.344 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 42281 | 442.848 | ug/l | 97 |
| 14) Allyl chloride | 4.385 | 41 | 498233 | 123.037 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 365294 | 655.216 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 923365 | 122.748 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 161535 | 117.584 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 810589 | 135.895 | ug/l | 96 |
| 20) Methylene Chloride | 4.616 | 84 | 329862 | 131.394 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 351487 | 135.586 | ug/l | 99 |
| 22) Diisopropyl ether | 6.019 | 45 | 1089955 | 132.601 | ug/l | 99 |
| 23) Vinyl Acetate | 5.958 | 43 | 3123065 | 670.840 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 648906 | 134.755 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 458674 | 611.252 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 575868 | 126.503 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 400187 | 134.176 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 238929 | 147.100 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 305396 | 644.700 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 656177 | 145.857 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 584271 | 126.896 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 600711 | 135.784 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 485468 | 135.636 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 213468 | 126.794 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 548361 | 138.477 | ug/l | 98 |
| 39) Methylcyclohexane | 9.110 | 83 | 640301 | 137.259 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 1431012 | 136.402 | ug/l | 98 |
| 41) Methacrylonitrile | 7.220 | 41 | 119101 | 133.813 | ug/l | 95 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 42) 1,2-Dichloroethane | 8.159 | 62 | 377438 | 135.647 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 433206 | 135.916 | ug/l | | 100 |
| 44) Trichloroethene | 8.866 | 130 | 352263 | 136.648 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 335340 | 136.766 | ug/l | | 98 |
| 46) Dibromomethane | 9.225 | 93 | 174812 | 134.905 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 485795 | 138.787 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 210550 | 138.957 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 41221 | 2773.834 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 9.994 | 43 | 1092140 | 649.161 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 904033 | 138.659 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 464905 | 142.541 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 540157 | 139.760 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 230372 | 134.466 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.439 | 69 | 363115 | 146.095 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 413542 | 135.406 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 826777 | 790.569 | ug/l | | 99 |
| 59) 2-Hexanone | 10.756 | 43 | 731842 | 677.527 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 318266 | 138.906 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 218394 | 137.043 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 309587 | 134.678 | ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 948051 | 138.742 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.512 | 131 | 324778 | 138.995 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 1770086 | 140.410 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 1308282 | 279.114 | ug/l | | 100 |
| 69) o-Xylene | 11.951 | 106 | 617079 | 141.099 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 1031166 | 141.122 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 183216 | 139.463 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 1651138 | 139.276 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 396216 | 142.807 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 258787 | 134.480 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 183456m | 131.115 | ug/l | | |
| 77) Bromobenzene | 12.530 | 156 | 357464 | 138.423 | ug/l | | 100 |
| 78) n-propylbenzene | 12.597 | 91 | 1971458 | 138.026 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 1111362 | 138.298 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 1332805 | 138.553 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 96747 | 143.899 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.774 | 91 | 1135416 | 136.190 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 1219521 | 139.985 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1313945 | 139.253 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 1737212 | 137.147 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 1456581 | 139.472 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 693843 | 136.109 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 684559 | 135.587 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 1382912 | 139.722 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 293562 | 141.843 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.658 | 146 | 611871 | 138.532 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 43513 | 139.274 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 403445 | 151.011 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 250003 | 143.145 | ug/l | | 100 |
| 95) Naphthalene | 15.145 | 128 | 736677 | 160.836 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 344880 | 152.787 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

ICAL Form

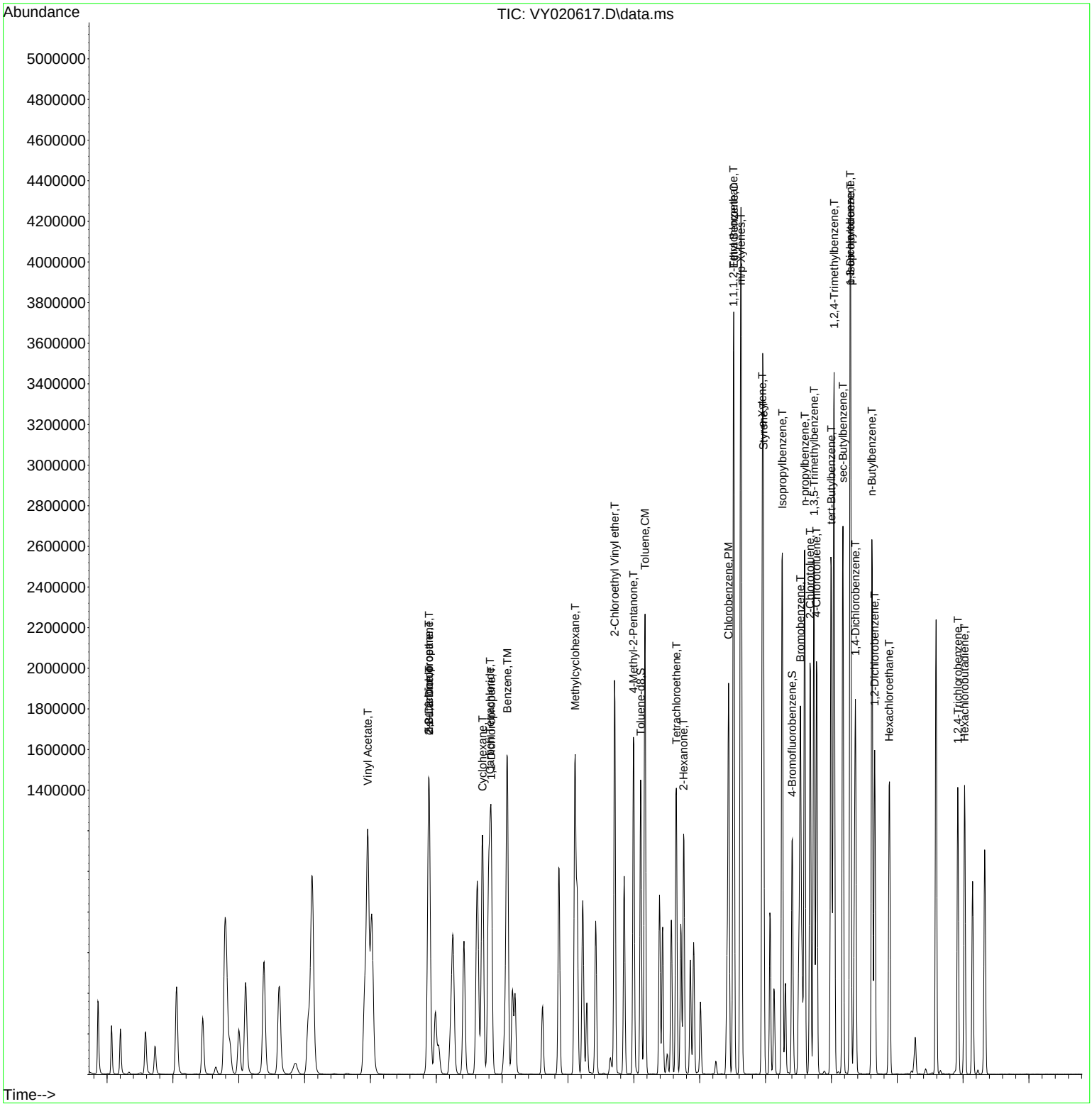
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

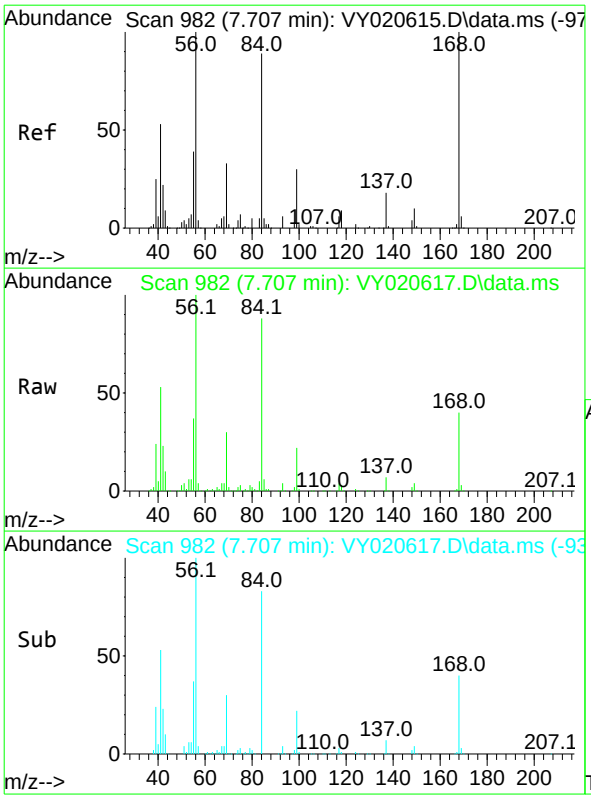
Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

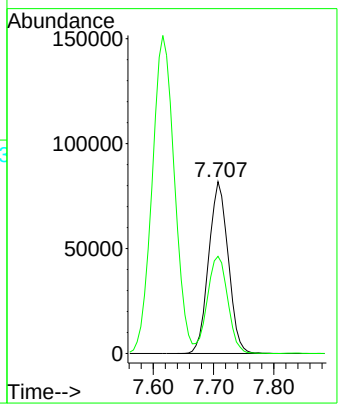





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:168 Resp: 184362

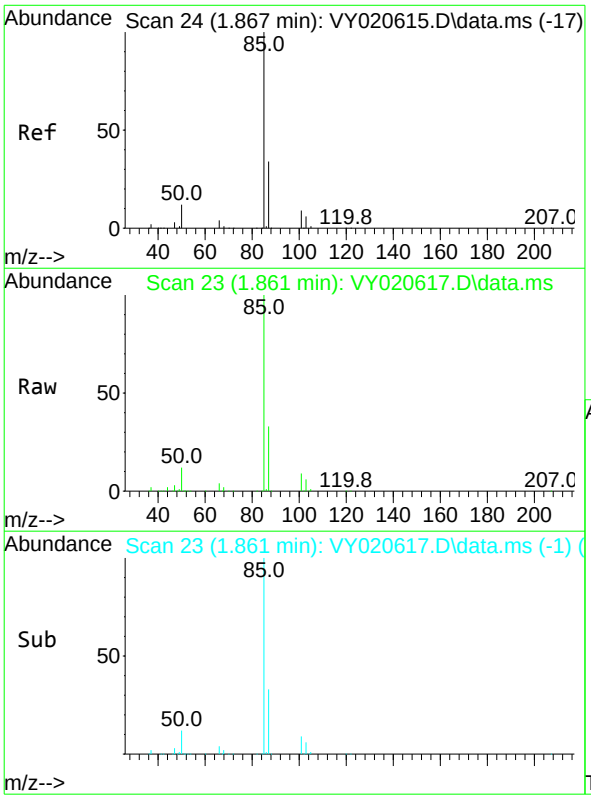
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.5 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

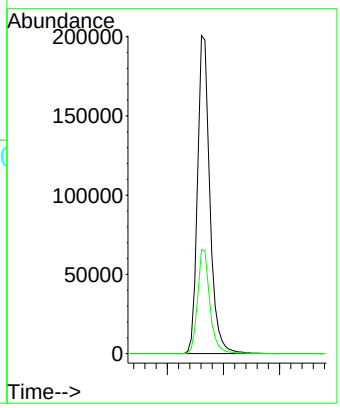
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

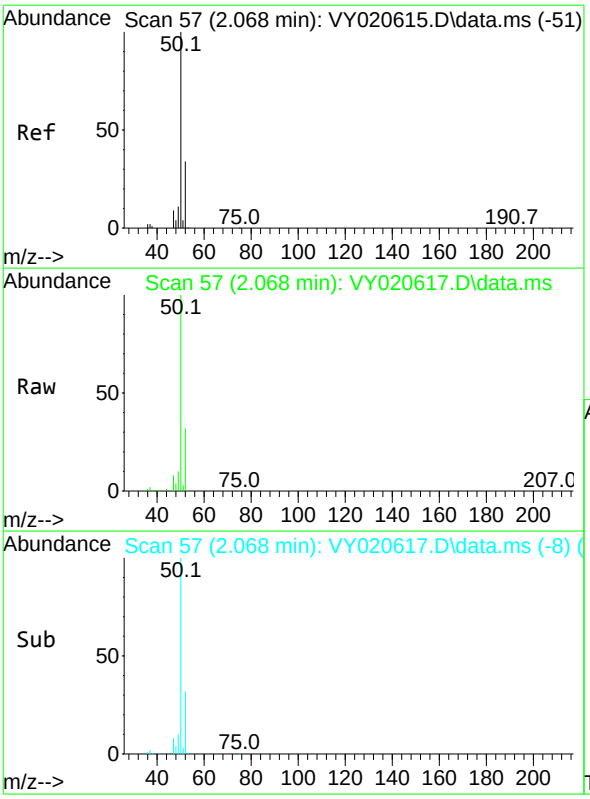



#2
Dichlorodifluoromethane
Concen: 132.646 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 85 Resp: 305452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.7 | 16.8 | 50.3 |

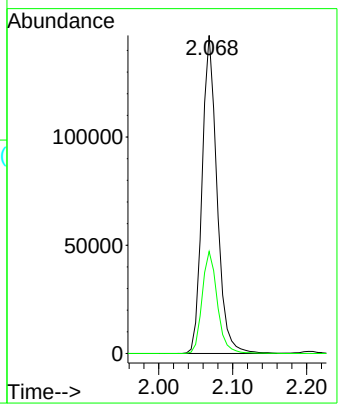





#3
Chloromethane
Concen: 120.474 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 50 Resp: 205555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.1 | 26.8 | 40.2 |




**Instrument :**
MSVOA_Y
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VSTDICC150

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 12/18/2024
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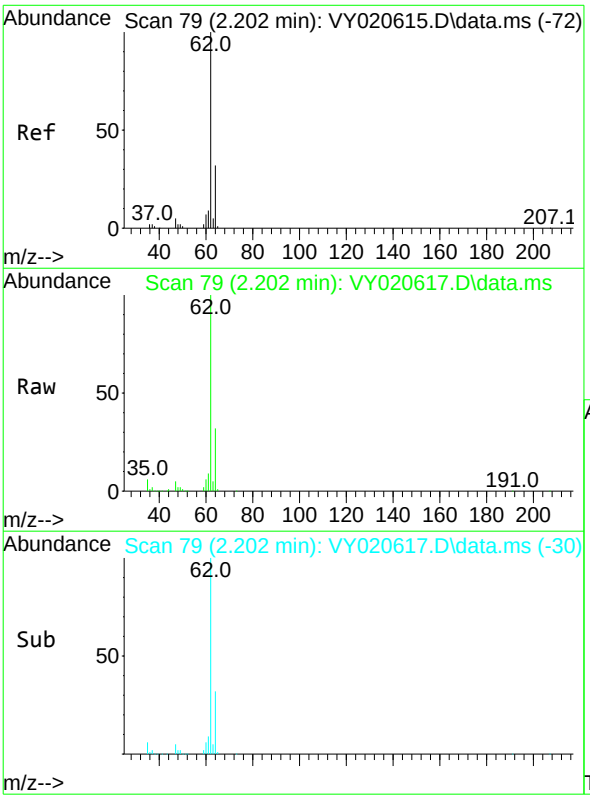
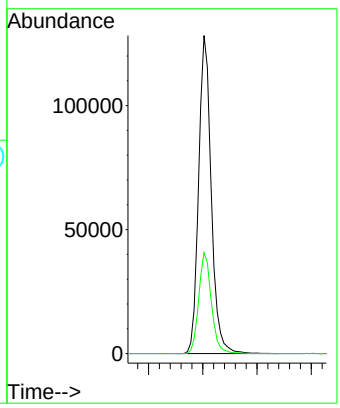
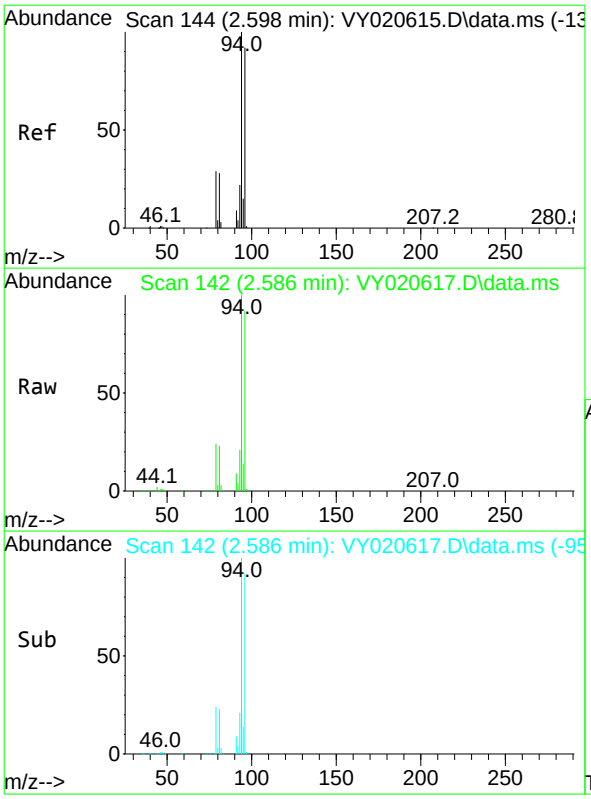



#4
Vinyl Chloride
Concen: 130.199 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 62 Resp: 206764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.3 | 37.9 |

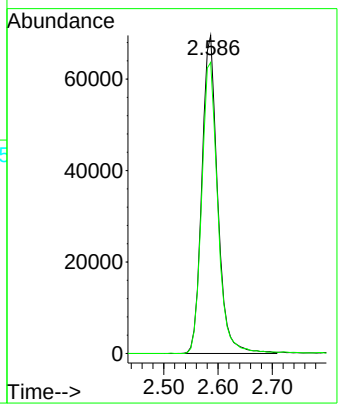





#5
Bromomethane
Concen: 137.550 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 94 Resp: 140413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.5 | 73.8 | 110.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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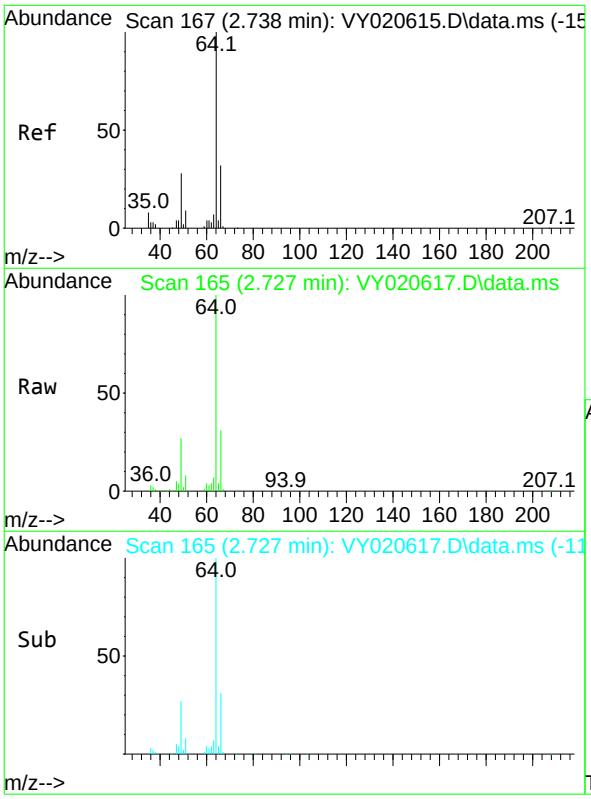
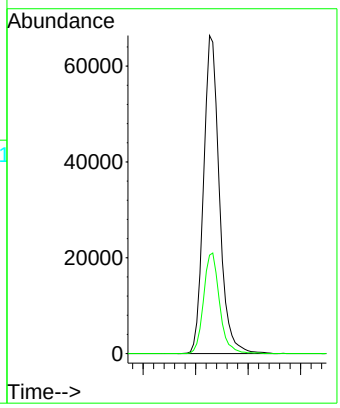
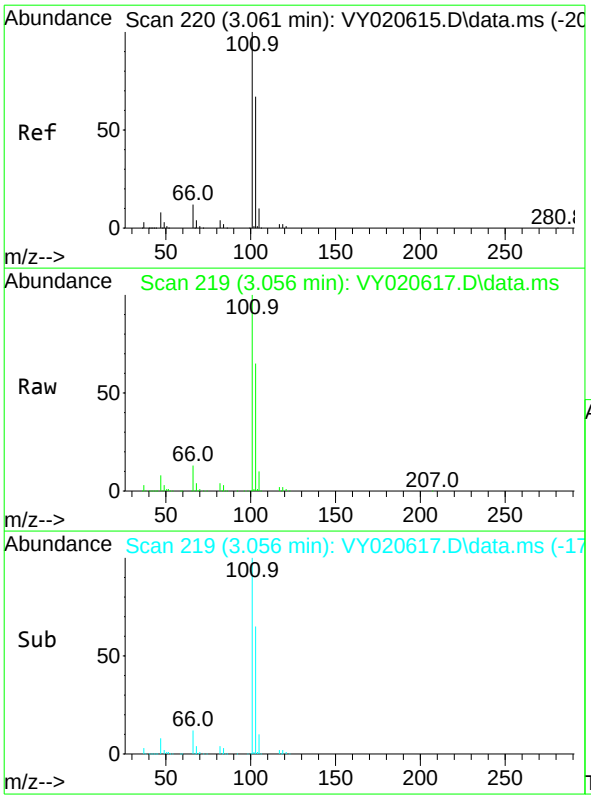



#6
Chloroethane
Concen: 141.459 ug/l
RT: 2.727 min Scan# 165
Delta R.T. -0.012 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 64 Resp: 138821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.0 | 25.8 | 38.6 |

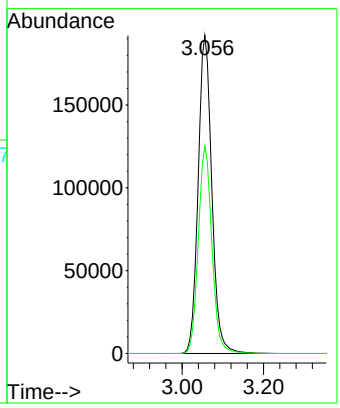





#7
Trichlorofluoromethane
Concen: 134.789 ug/l
RT: 3.056 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:101 Resp: 447890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.3 | 53.4 | 80.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

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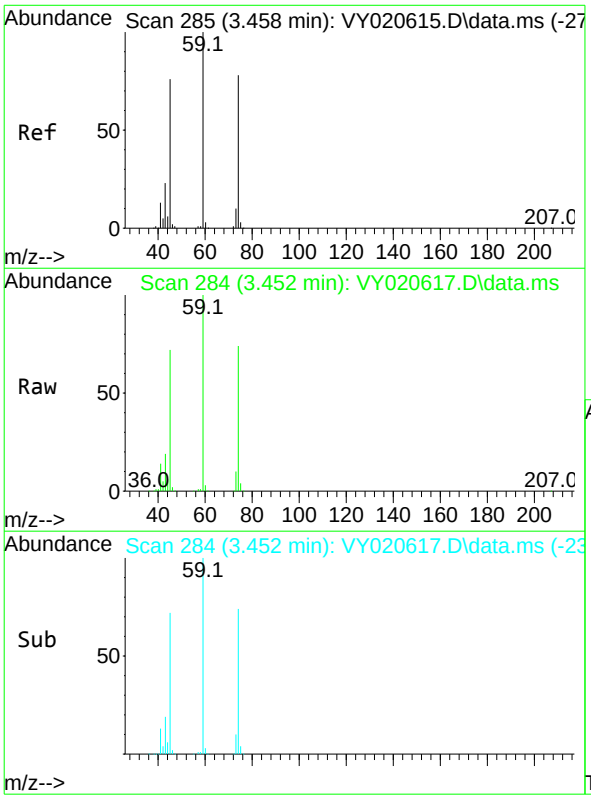
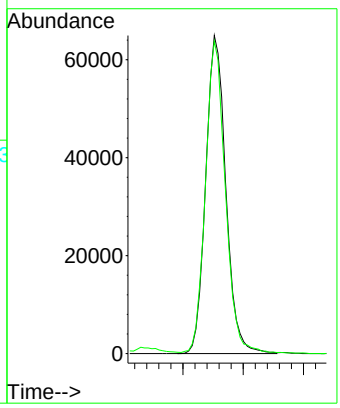
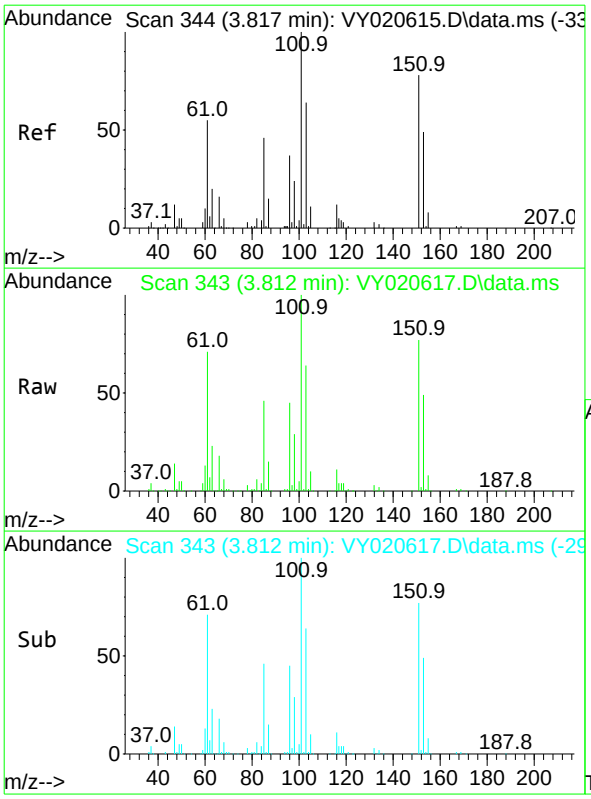



#8
Diethyl Ether
Concen: 129.035 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 74 Resp: 150374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.8 | 49.0 | 147.2 |

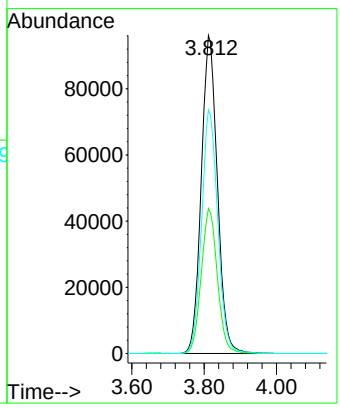





#9
1,1,2-Trichlorotrifluoroethane
Concen: 124.769 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:101 Resp: 297171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.5 | 36.6 | 54.8 |
| 151 | 77.2 | 61.5 | 92.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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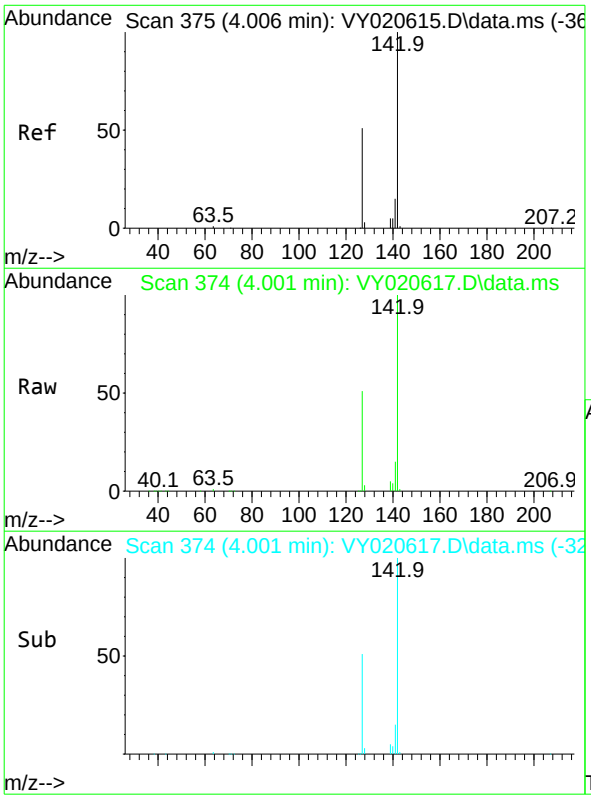
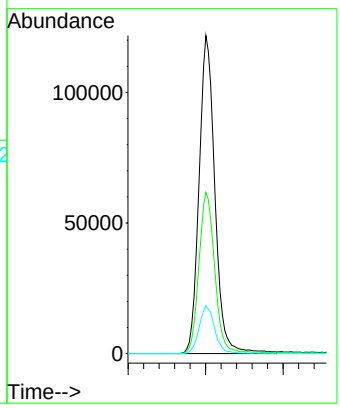
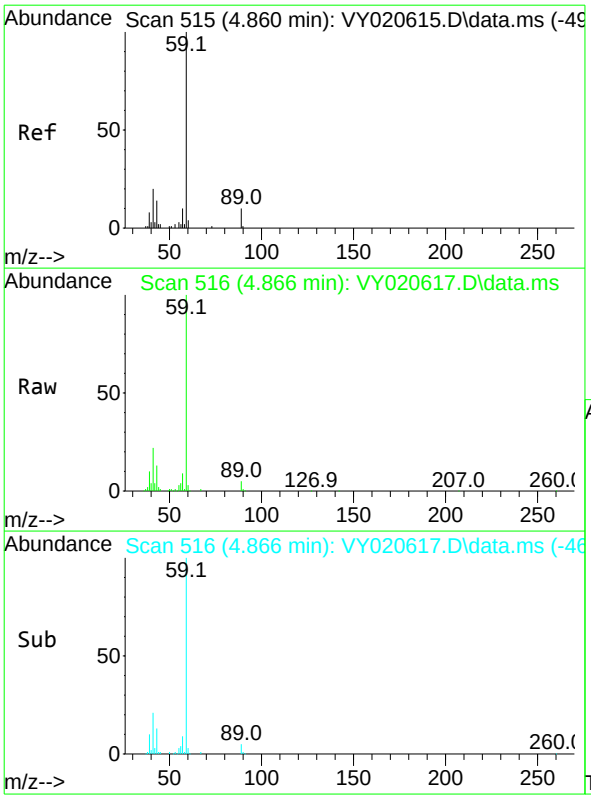



#10
Methyl Iodide
Concen: 130.361 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.005 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:142 Resp: 345686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 50.4 | 40.6 | 61.0 |
| 141 | 14.8 | 11.7 | 17.5 |

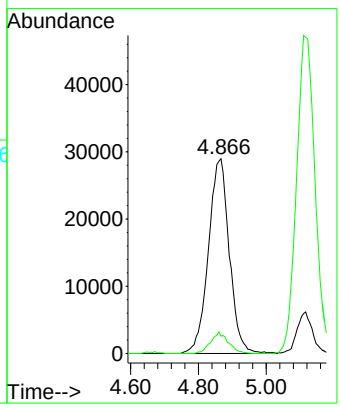





#11
Tert butyl alcohol
Concen: 737.397 ug/l
RT: 4.866 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 59 Resp: 123878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.3 | 7.4 | 11.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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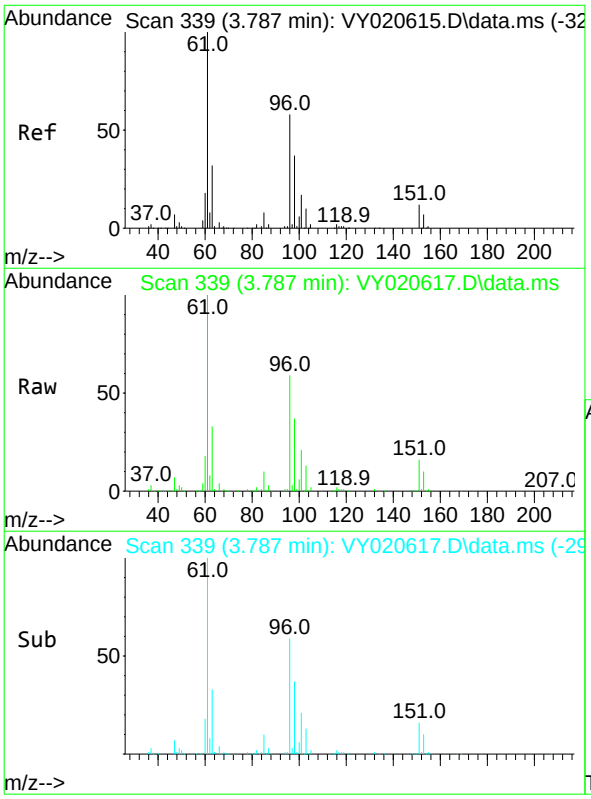
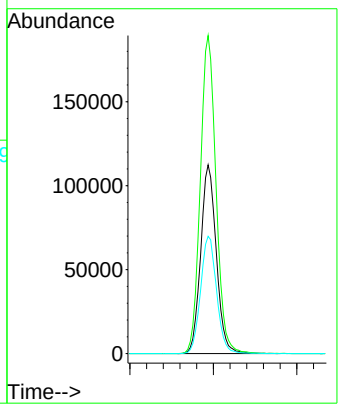
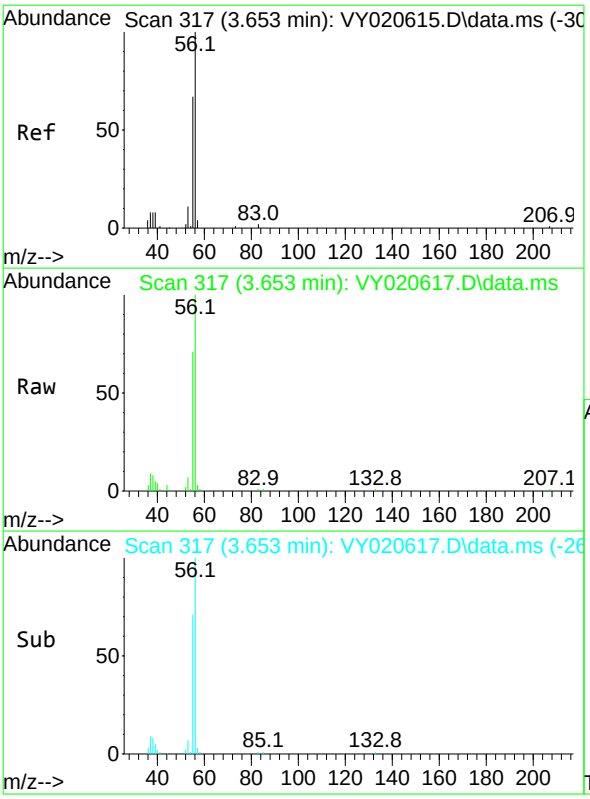



#12
1,1-Dichloroethene
Concen: 126.344 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 96 Resp: 291982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 168.5 | 136.9 | 205.3 |
| 98 | 62.2 | 50.2 | 75.4 |

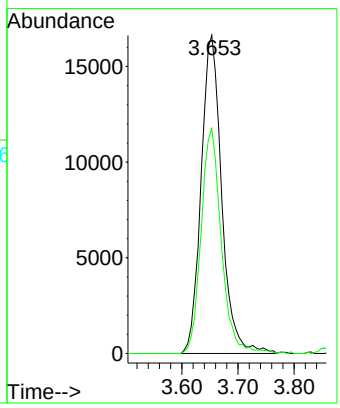





#13
Acrolein
Concen: 442.848 ug/l
RT: 3.653 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 56 Resp: 42281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.2 | 57.5 | 86.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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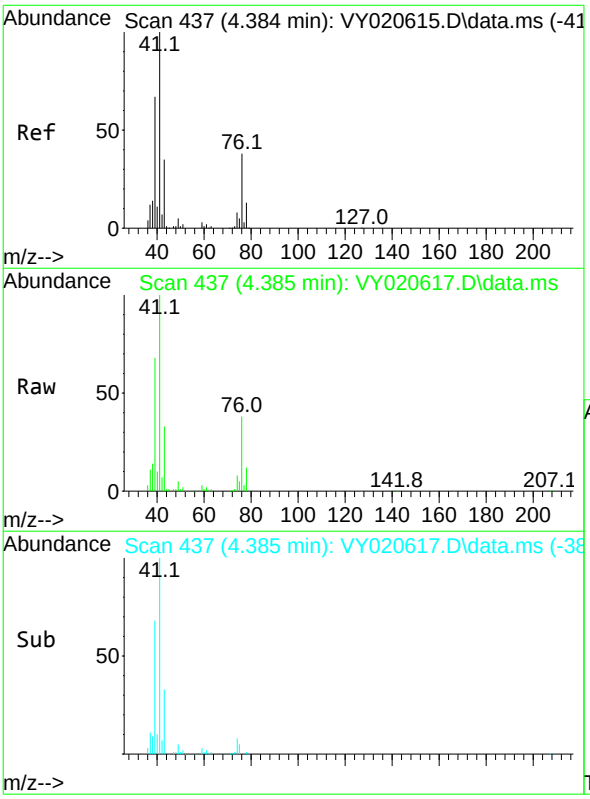
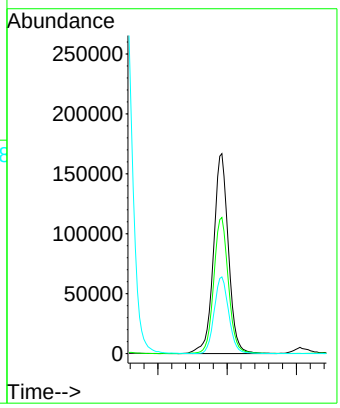
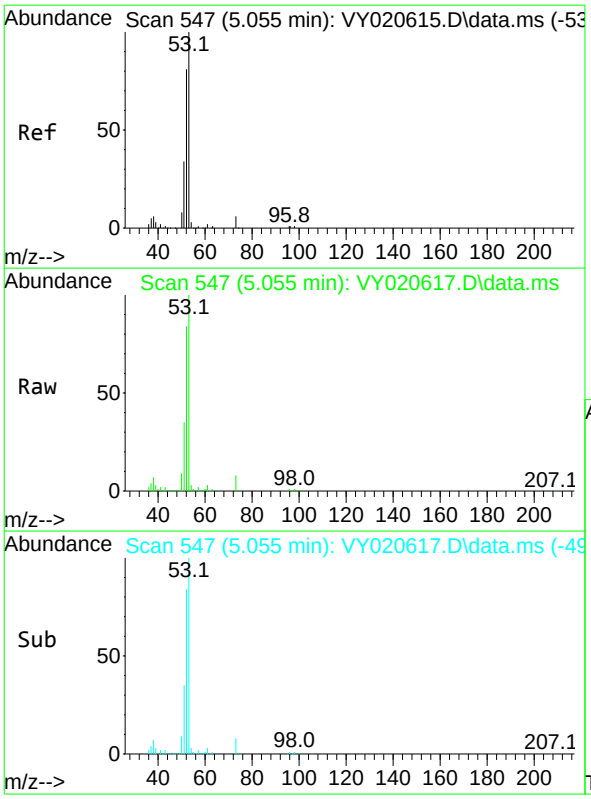



#14
Allyl chloride
Concen: 123.037 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 41 Resp: 498233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.8 | 53.0 | 79.4 |
| 76 | 37.4 | 29.5 | 44.3 |

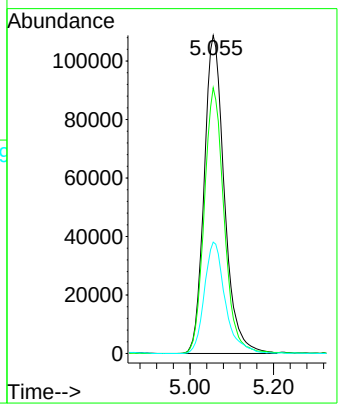





#15
Acrylonitrile
Concen: 655.216 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 53 Resp: 365294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.2 | 64.5 | 96.7 |
| 51 | 36.2 | 29.4 | 44.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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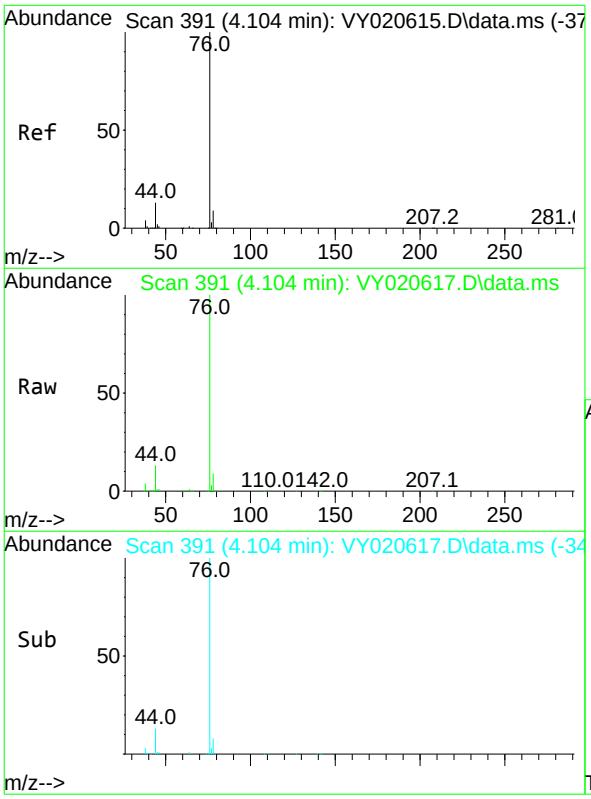
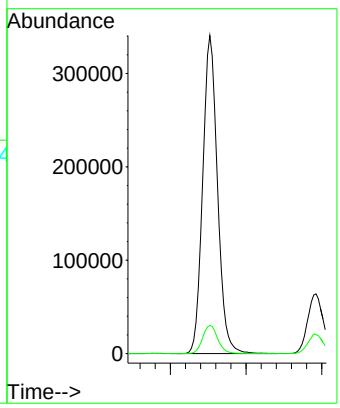
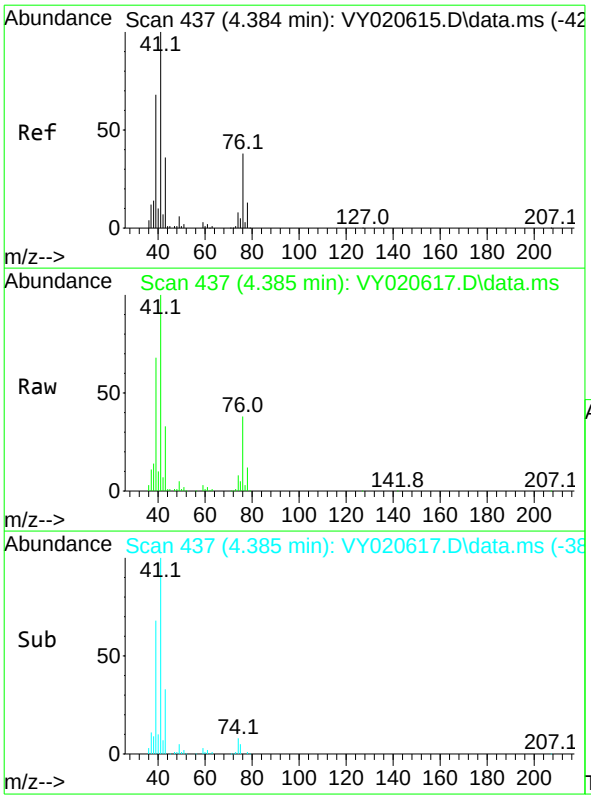



#17
Carbon Disulfide
Concen: 122.748 ug/l
RT: 4.104 min Scan# 391
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 76 Resp: 923365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.2 | 10.8 |

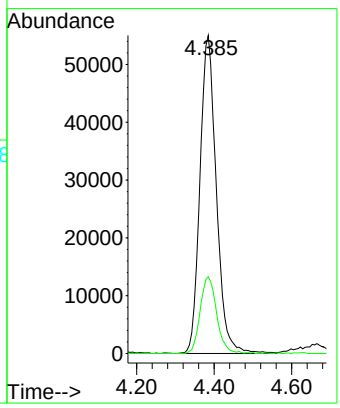





#18
Methyl Acetate
Concen: 117.584 ug/l
RT: 4.385 min Scan# 43
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 161535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.2 | 19.2 | 28.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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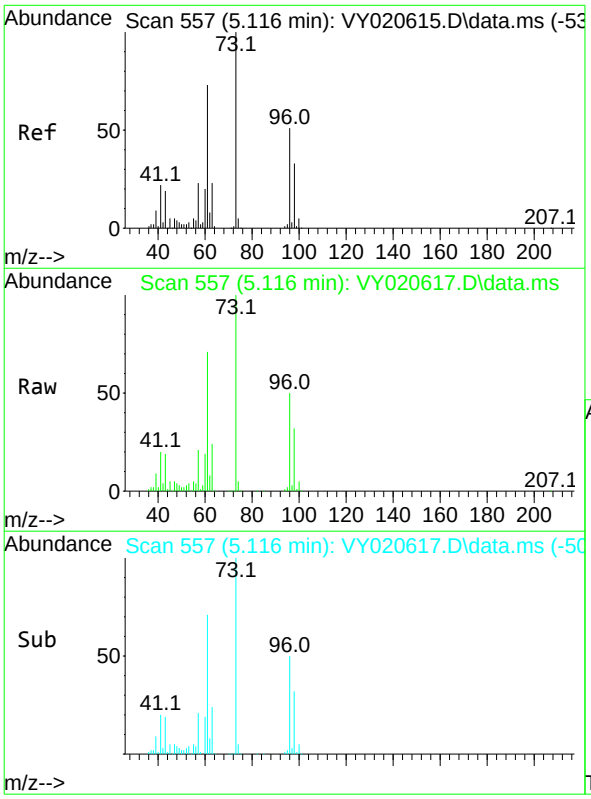
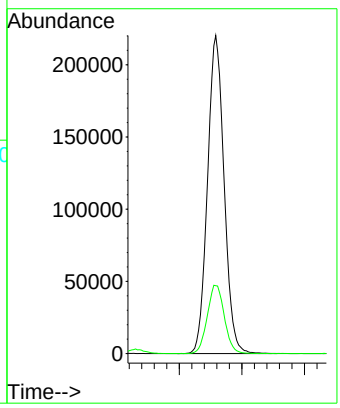
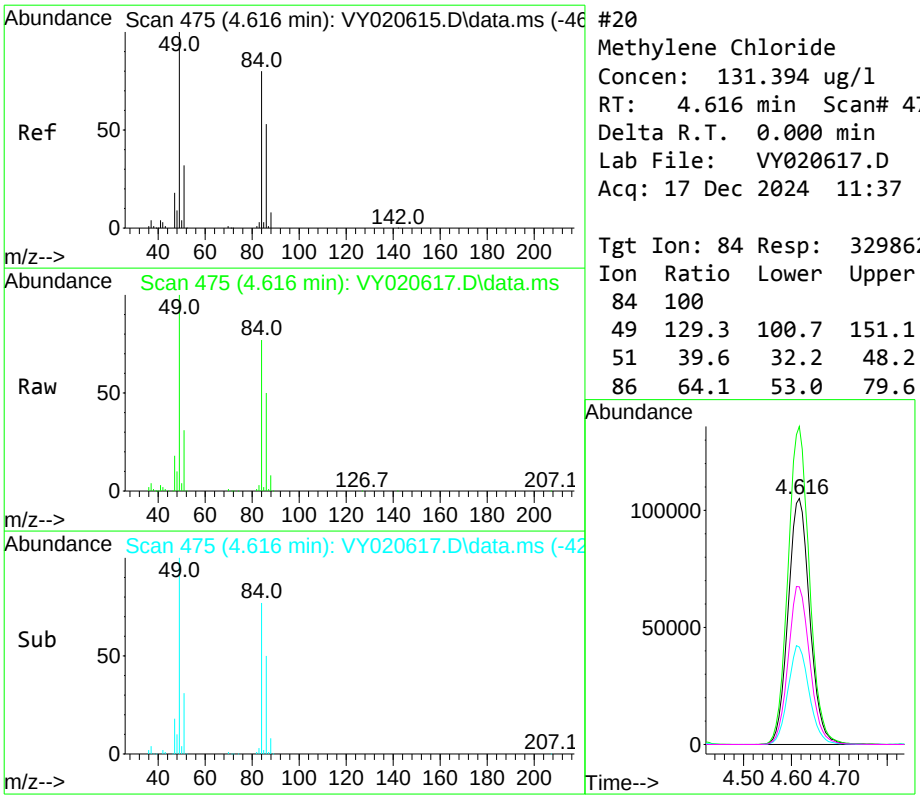



#19
Methyl tert-butyl Ether
Concen: 135.895 ug/l
RT: 5.116 min Scan# 557
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 73 Resp: 810589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 18.5 | 27.7 |






#20
Methylene Chloride
Concen: 131.394 ug/l
RT: 4.616 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 84 Resp: 329862

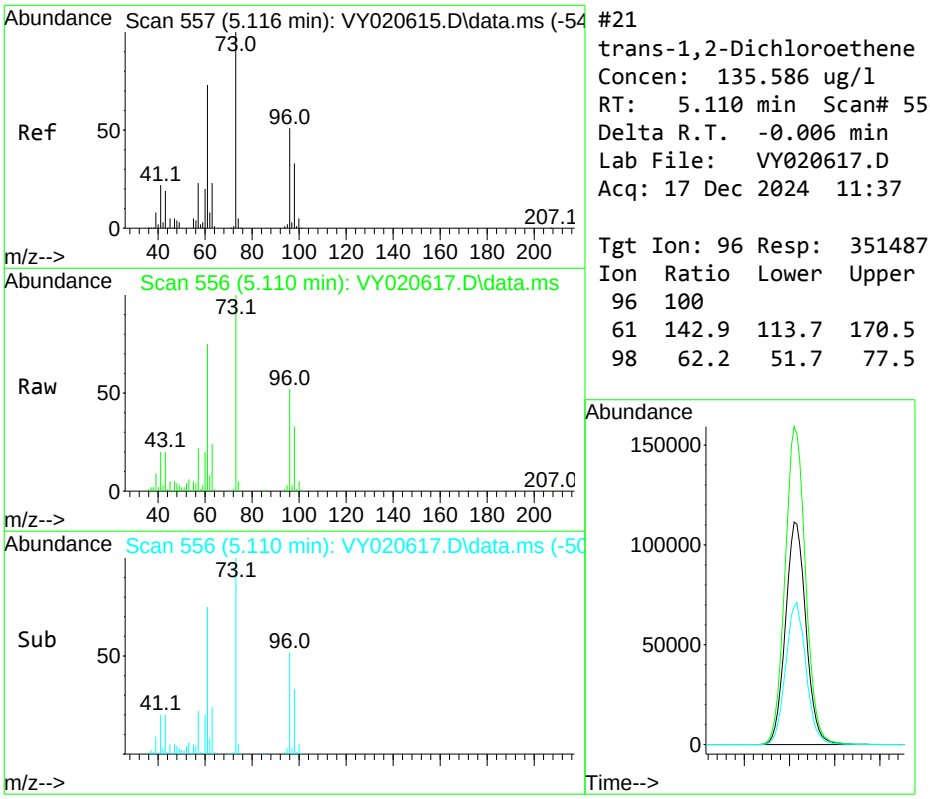
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 129.3 | 100.7 | 151.1 |
| 51 | 39.6 | 32.2 | 48.2 |
| 86 | 64.1 | 53.0 | 79.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

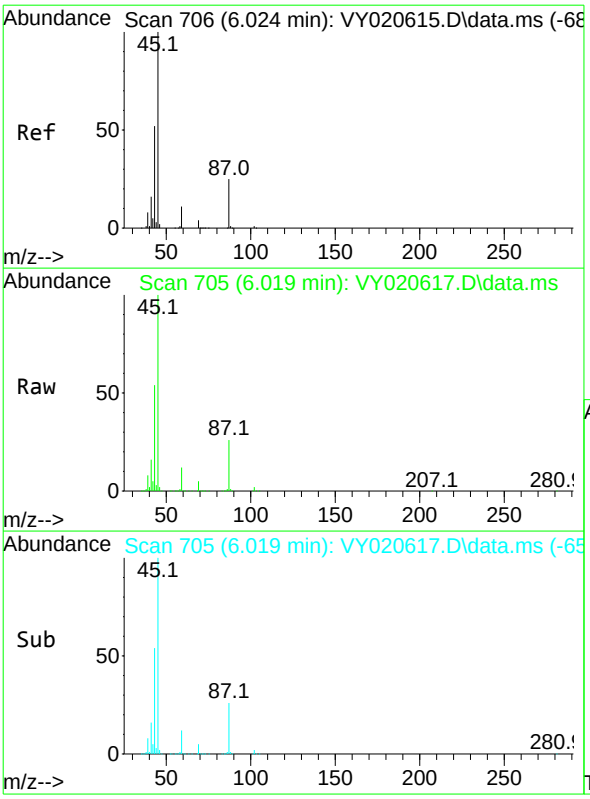
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024




#21
trans-1,2-Dichloroethene
Concen: 135.586 ug/l
RT: 5.110 min Scan# 556
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 96 Resp: 351487

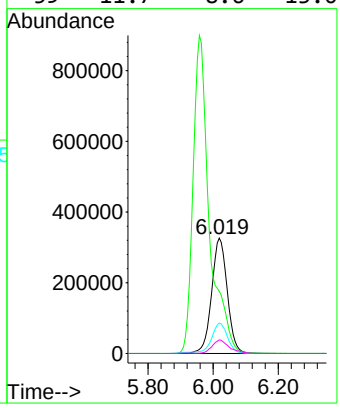
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.9 | 113.7 | 170.5 |
| 98 | 62.2 | 51.7 | 77.5 |




#22
Diisopropyl ether
Concen: 132.601 ug/l
RT: 6.019 min Scan# 70
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 45 Resp: 1089955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 53.7 | 42.6 | 64.0 |
| 87 | 26.4 | 20.6 | 31.0 |
| 59 | 11.7 | 8.6 | 13.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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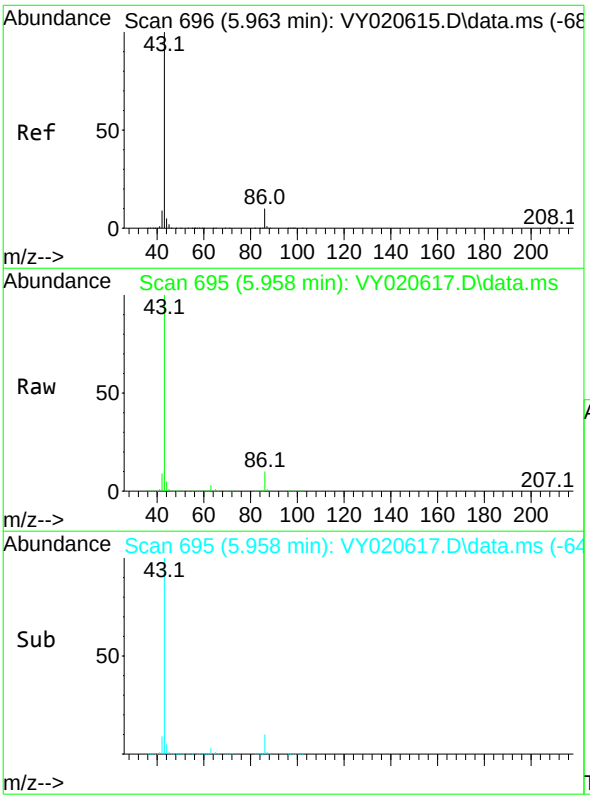
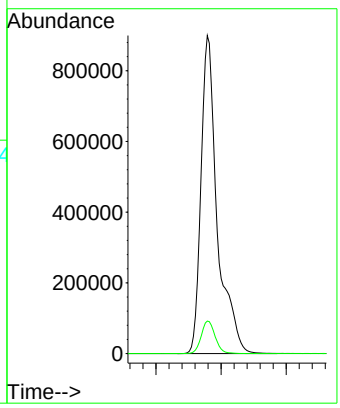
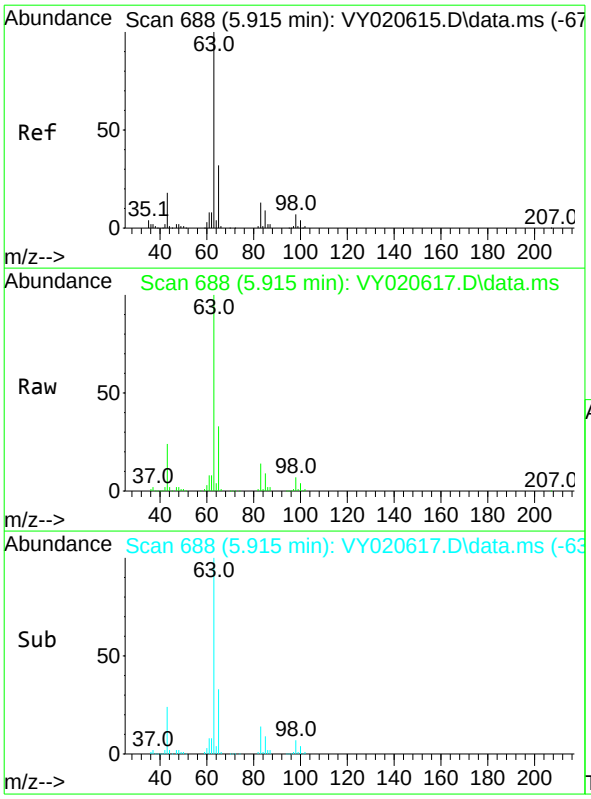



#23
Vinyl Acetate
Concen: 670.840 ug/l
RT: 5.958 min Scan# 695
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 3123065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.2 | 8.1 | 12.1 |

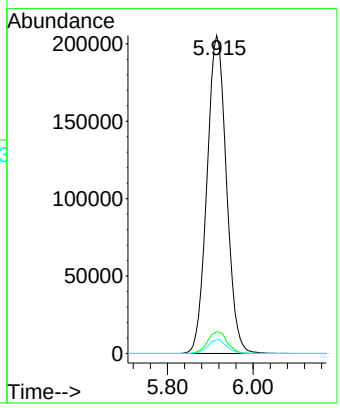





#24
1,1-Dichloroethane
Concen: 134.755 ug/l
RT: 5.915 min Scan# 68
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 63 Resp: 648906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.8 | 3.4 | 10.1 |
| 100 | 4.3 | 2.1 | 6.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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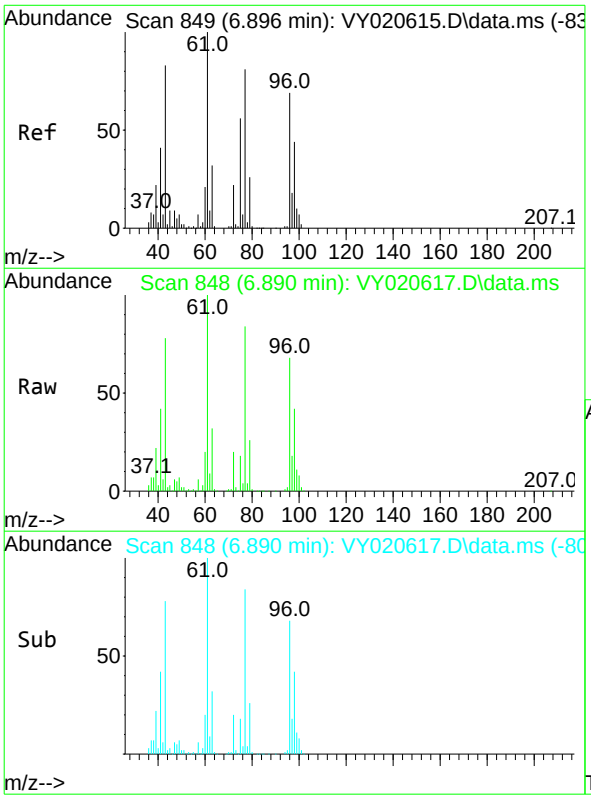
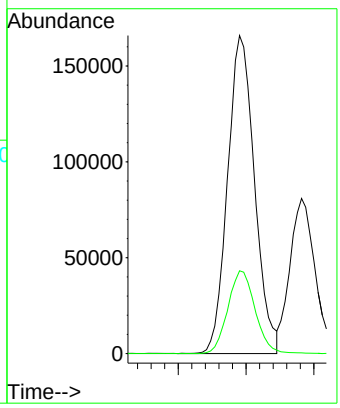
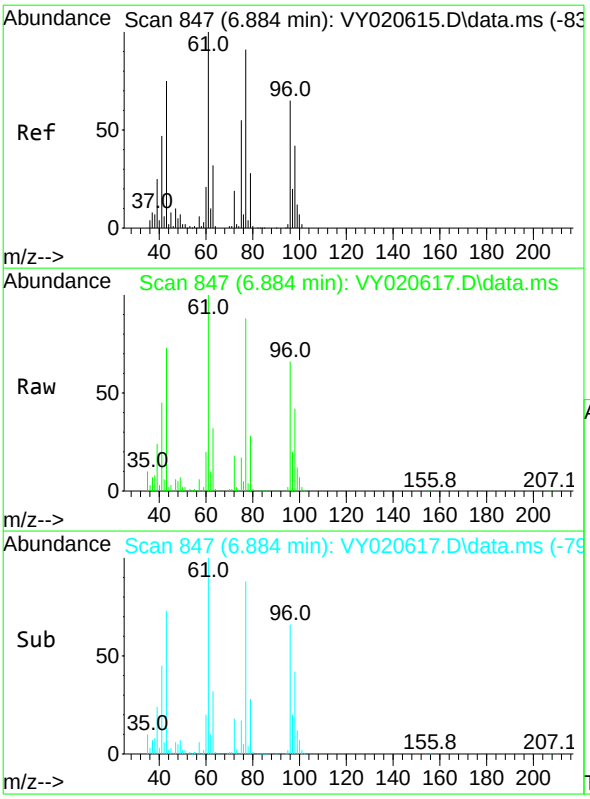



#25
2-Butanone
Concen: 611.252 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 458674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.0 | 20.6 | 31.0 |

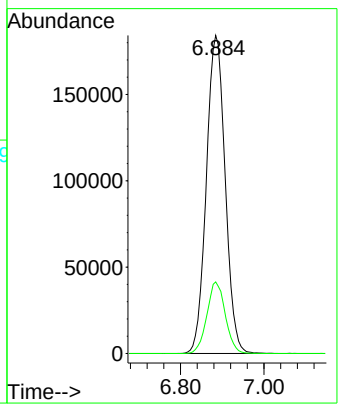





#26
2,2-Dichloropropane
Concen: 126.503 ug/l
RT: 6.884 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 77 Resp: 575868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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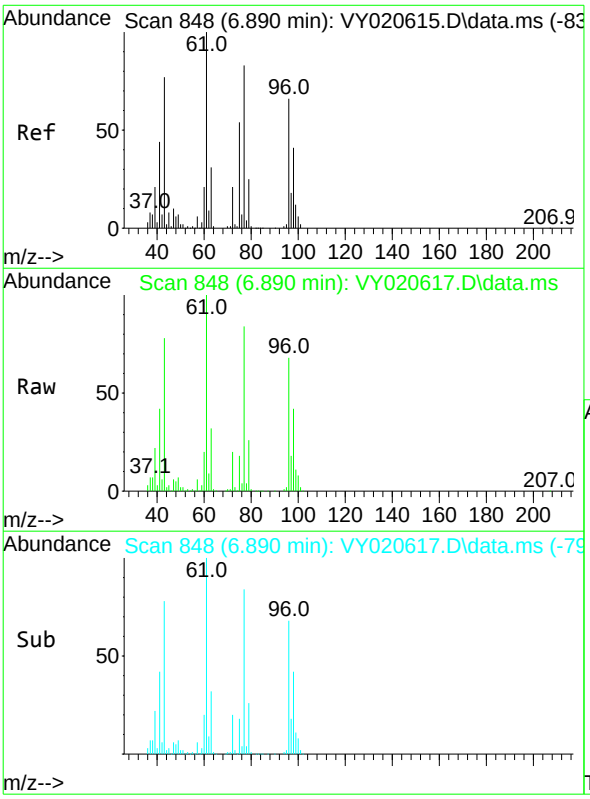
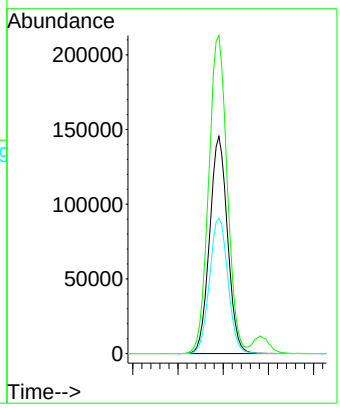
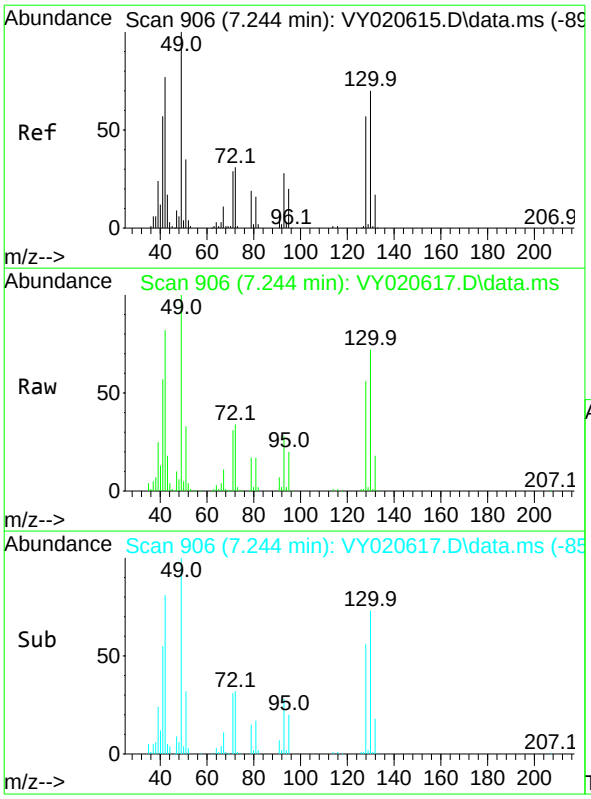



#27
cis-1,2-Dichloroethene
Concen: 134.176 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 96 Resp: 400187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.3 | 0.0 | 306.2 |
| 98 | 64.3 | 0.0 | 127.2 |

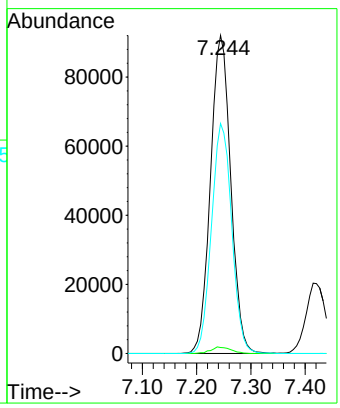





#28
Bromochloromethane
Concen: 147.100 ug/l
RT: 7.244 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 49 Resp: 238929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 3.8 |
| 130 | 72.3 | 58.3 | 87.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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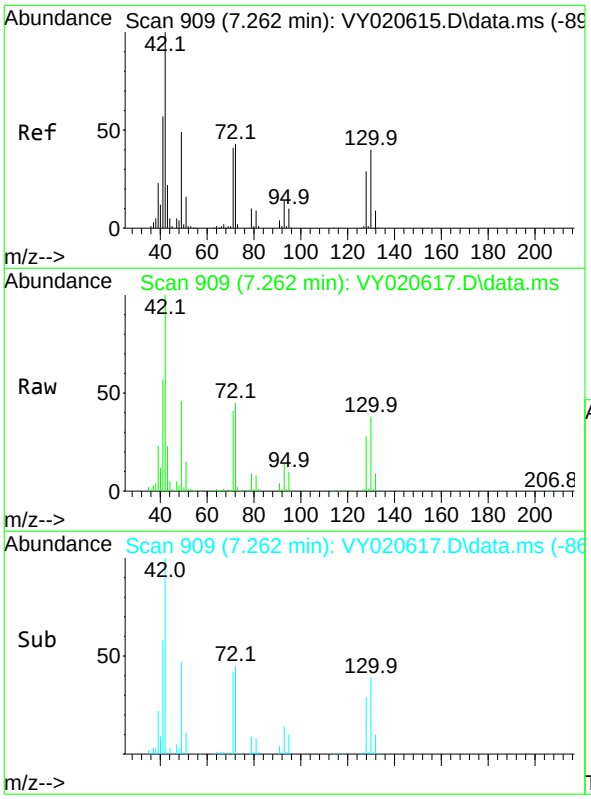
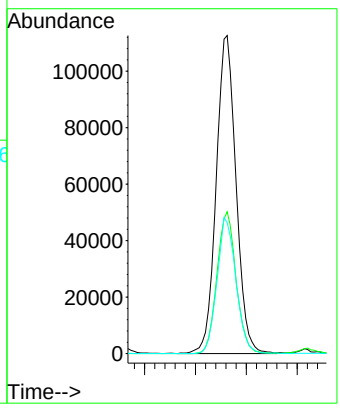
Supervised By :Semsettin Yesilyurt 12/18/2024

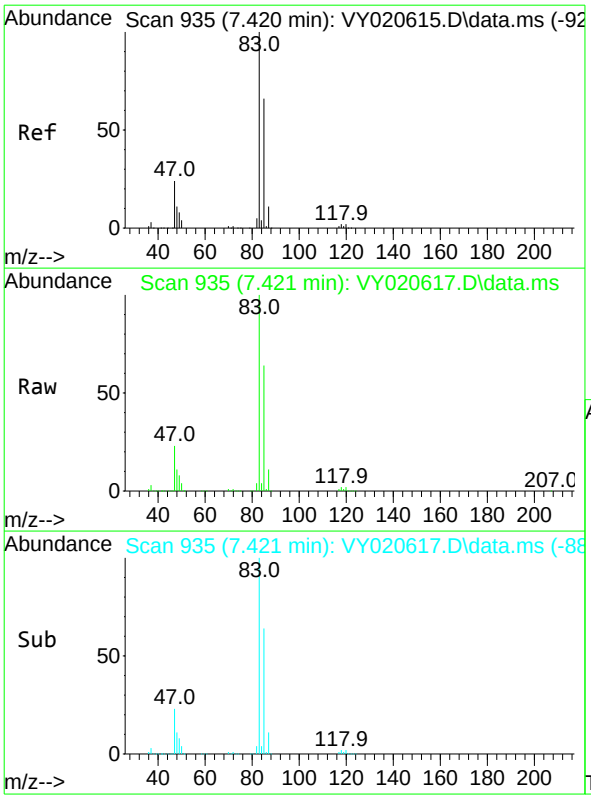



#29
Tetrahydrofuran
Concen: 644.700 ug/l
RT: 7.262 min Scan# 909
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 42 Resp: 305396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.0 | 34.0 | 51.0 |
| 71 | 40.7 | 31.6 | 47.4 |

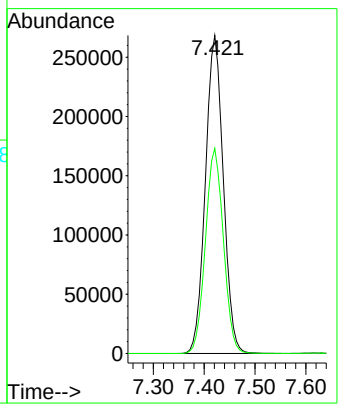





#30
Chloroform
Concen: 145.857 ug/l
RT: 7.421 min Scan# 93
Delta R.T. 0.001 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 83 Resp: 656177

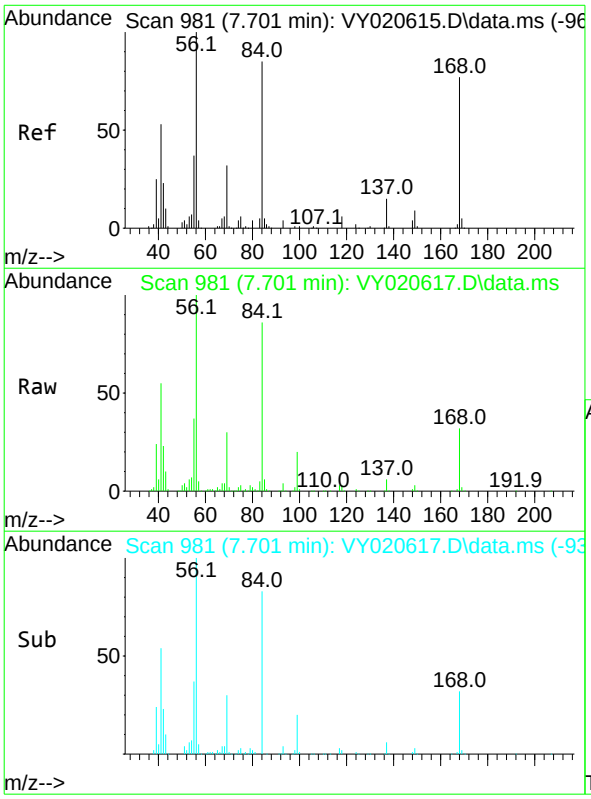
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 52.7 | 79.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

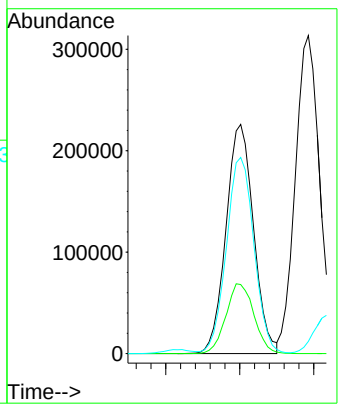
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

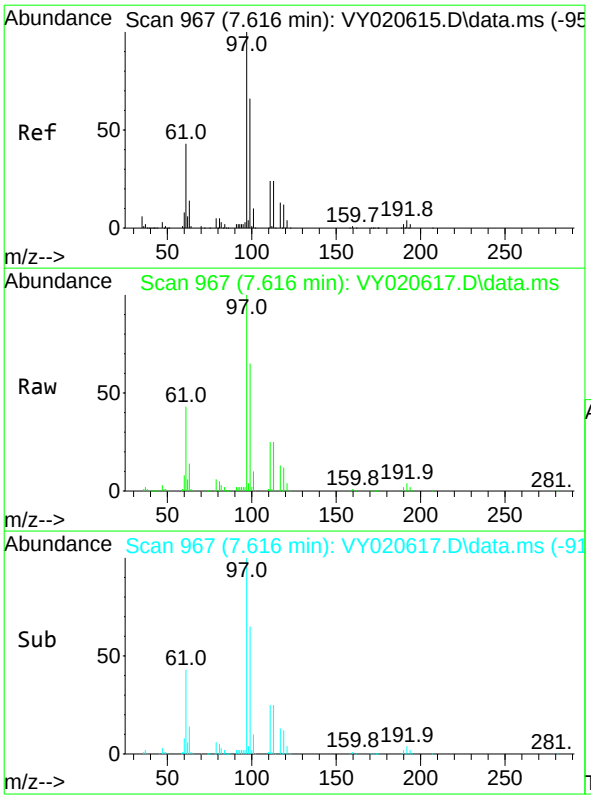



#31
Cyclohexane
Concen: 126.896 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 56 Resp: 584271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.1 | 25.4 | 38.0 |
| 84 | 83.9 | 68.3 | 102.5 |

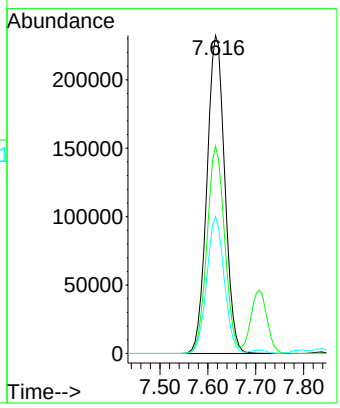





#32
1,1,1-Trichloroethane
Concen: 135.784 ug/l
RT: 7.616 min Scan# 96
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 97 Resp: 600711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 42.4 | 34.7 | 52.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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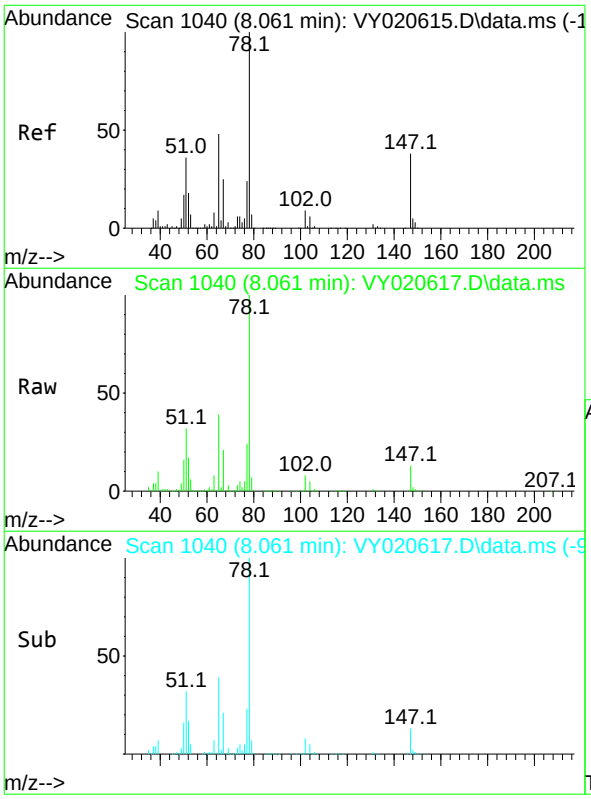
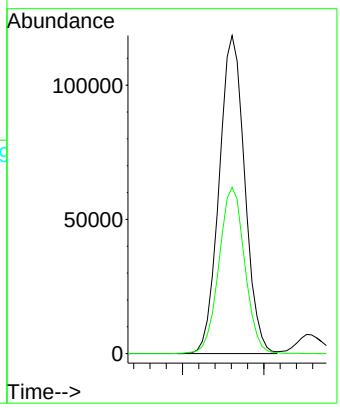
Supervised By :Semsettin Yesilyurt 12/18/2024

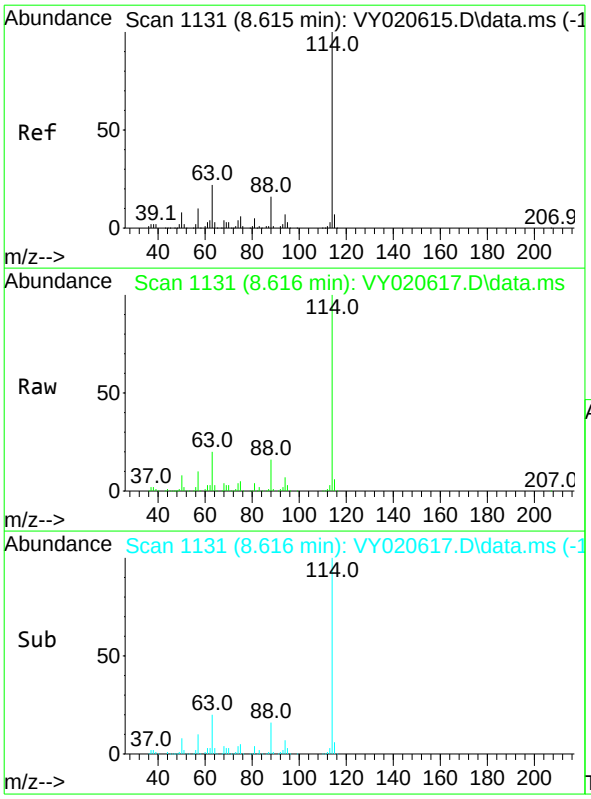



#33
1,2-Dichloroethane-d4
Concen: 128.022 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 65 Resp: 258496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.7 | 0.0 | 108.0 |






#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:114 Resp: 278509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 44.0 |
| 88 | 16.3 | 0.0 | 32.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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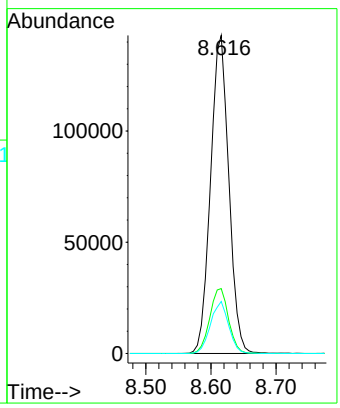
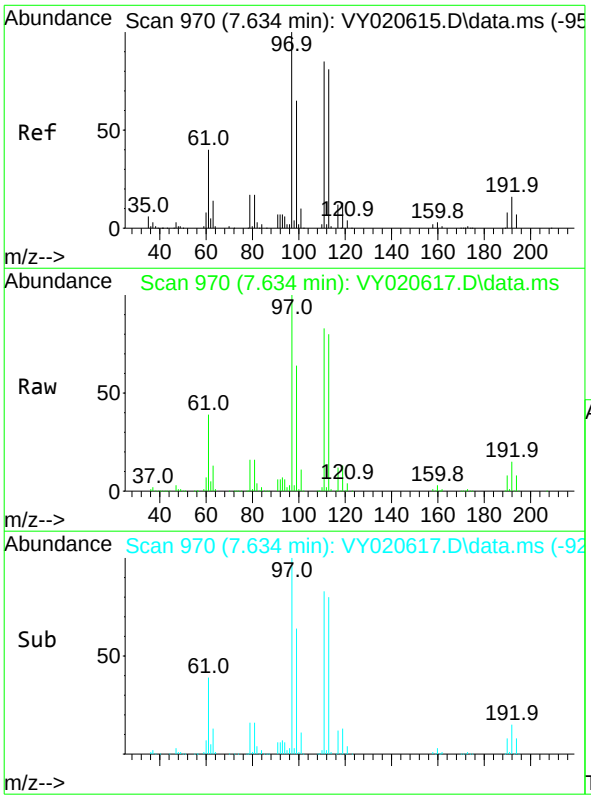
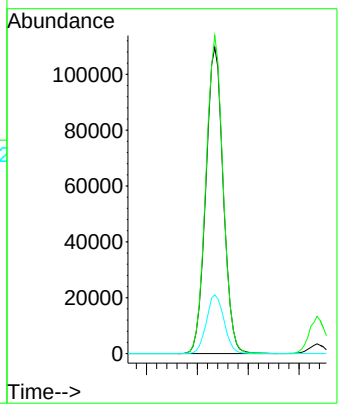


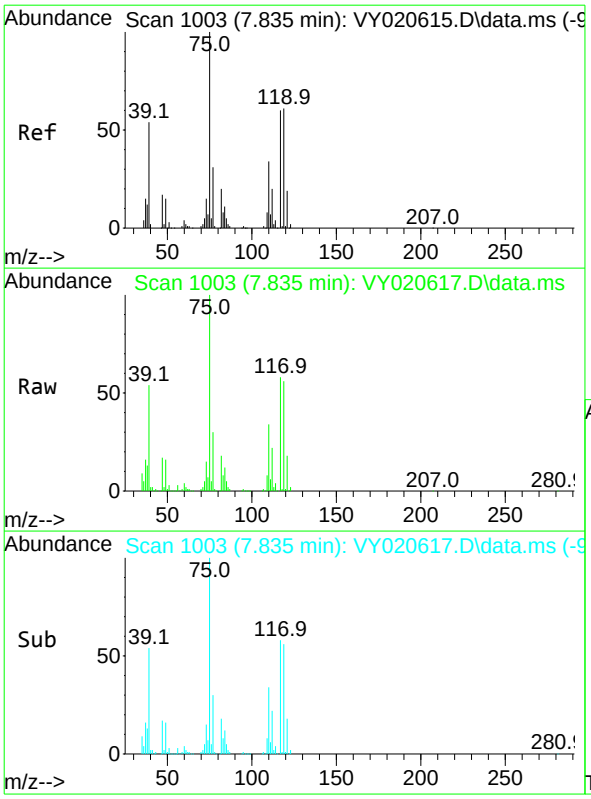




#35
Dibromofluoromethane
Concen: 133.217 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:113 Resp: 261486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 82.9 | 124.3 |
| 192 | 19.4 | 15.7 | 23.5 |

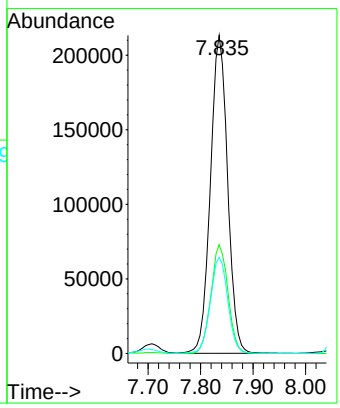





#36
1,1-Dichloropropene
Concen: 135.636 ug/l
RT: 7.835 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 75 Resp: 485468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.0 | 16.8 | 50.4 |
| 77 | 30.8 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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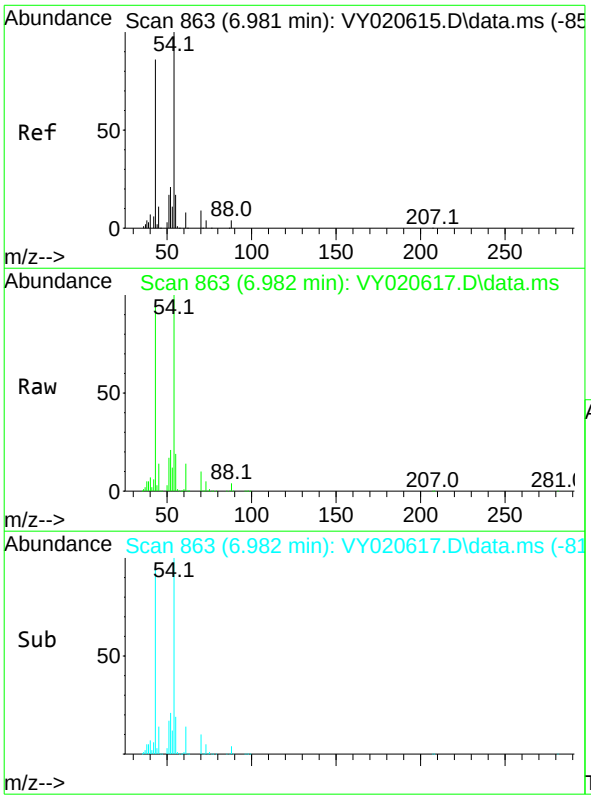
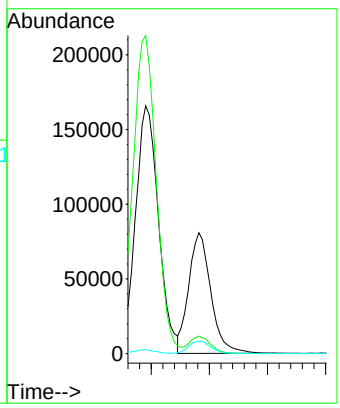
Supervised By :Semsettin Yesilyurt 12/18/2024

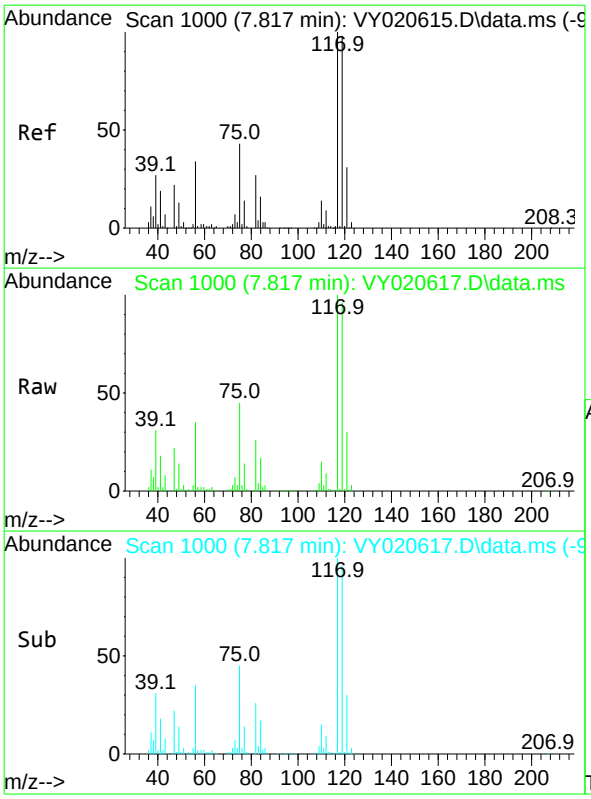



#37
Ethyl Acetate
Concen: 126.794 ug/l
RT: 6.982 min Scan# 863
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 213468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.8 | 11.0 | 16.4 |
| 70 | 10.3 | 7.9 | 11.9 |

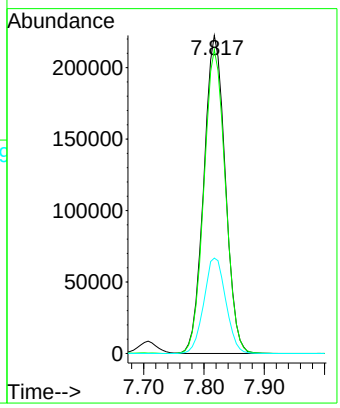





#38
Carbon Tetrachloride
Concen: 138.477 ug/l
RT: 7.817 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:117 Resp: 548361

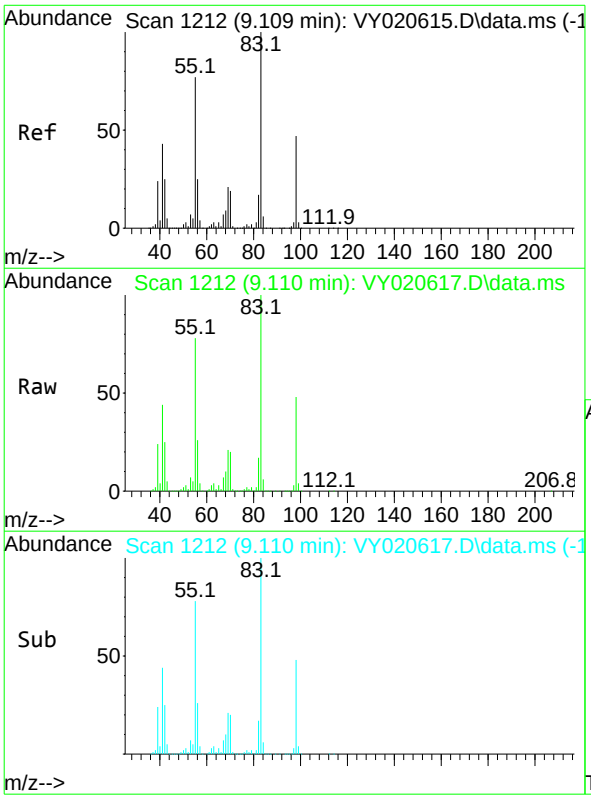
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.5 | 78.3 | 117.5 |
| 121 | 30.0 | 25.1 | 37.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

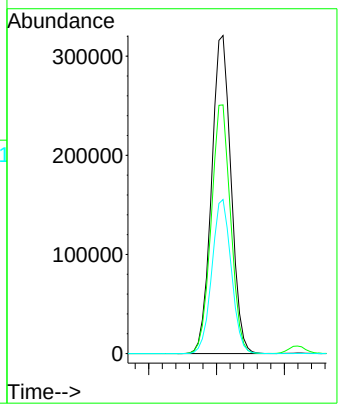
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

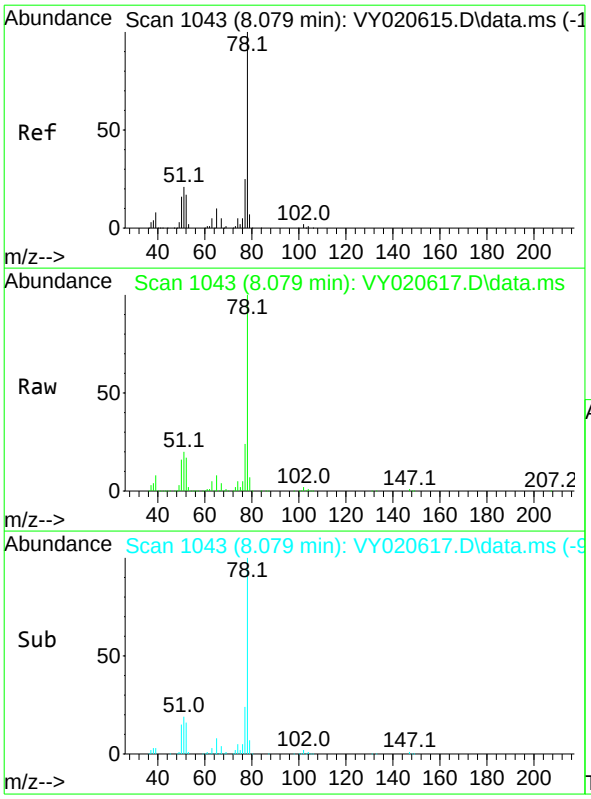



#39
Methylcyclohexane
Concen: 137.259 ug/l
RT: 9.110 min Scan# 1212
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 83 Resp: 640301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 78.2 | 61.4 | 92.0 |
| 98 | 48.5 | 37.3 | 55.9 |

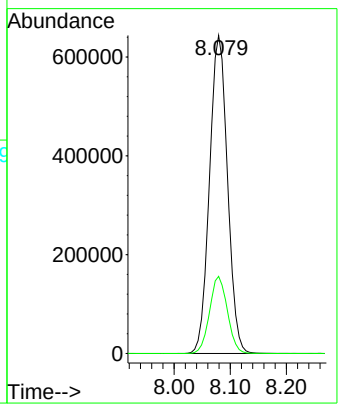





#40
Benzene
Concen: 136.402 ug/l
RT: 8.079 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 78 Resp: 1431012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 20.1 | 30.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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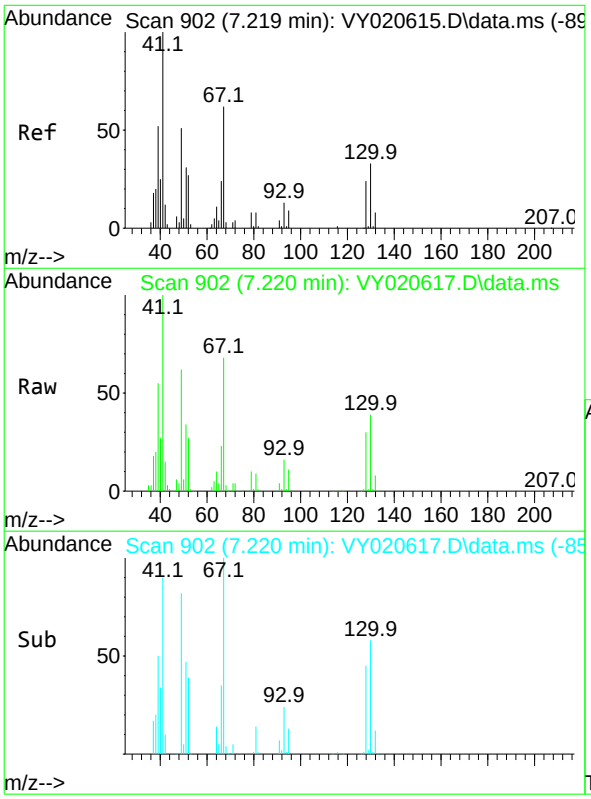
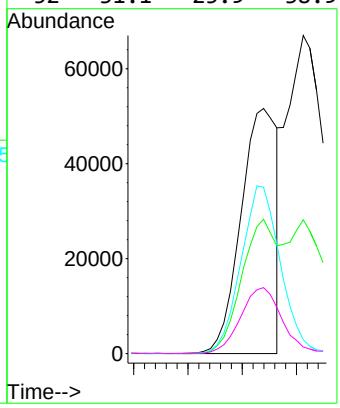
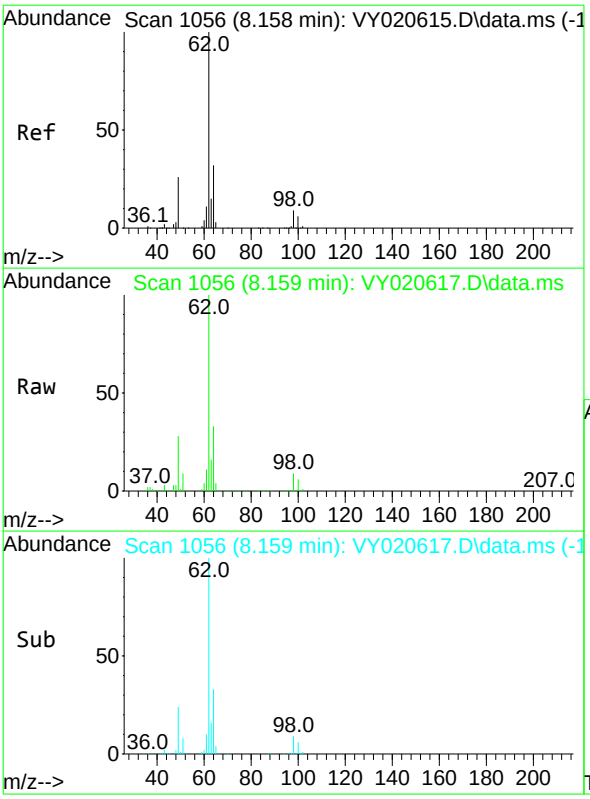



#41
Methacrylonitrile
Concen: 133.813 ug/l
RT: 7.220 min Scan# 902
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 41 Resp: 119101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.0 | 53.6 | 80.4 |
| 67 | 75.3 | 62.0 | 93.0 |
| 52 | 31.1 | 25.9 | 38.9 |

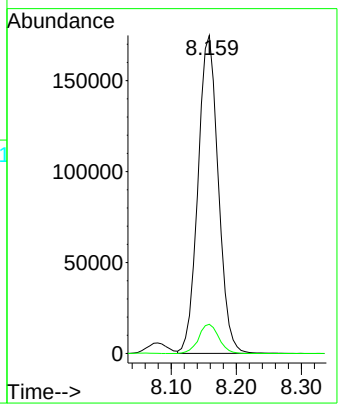





#42
1,2-Dichloroethane
Concen: 135.647 ug/l
RT: 8.159 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 62 Resp: 377438

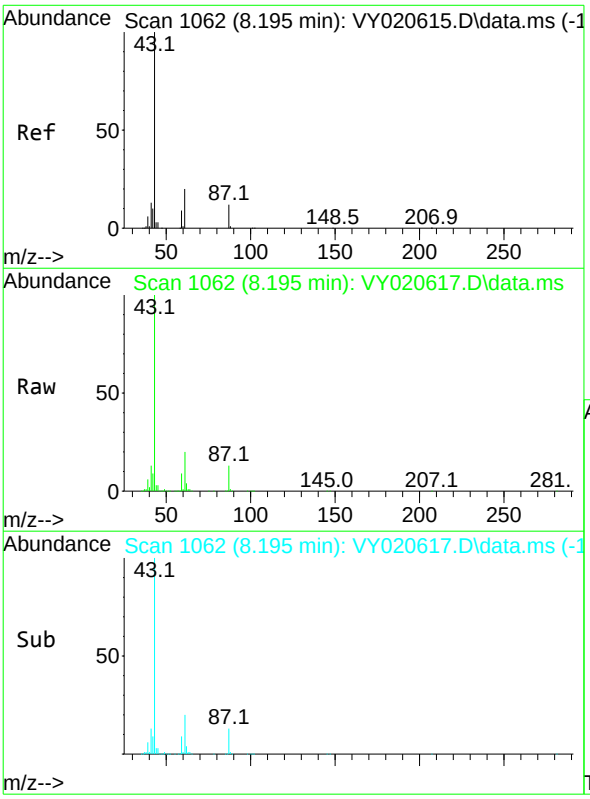
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.2 | 0.0 | 18.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

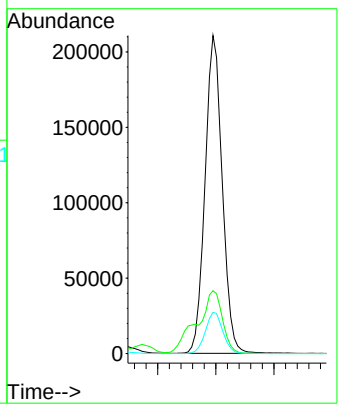
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

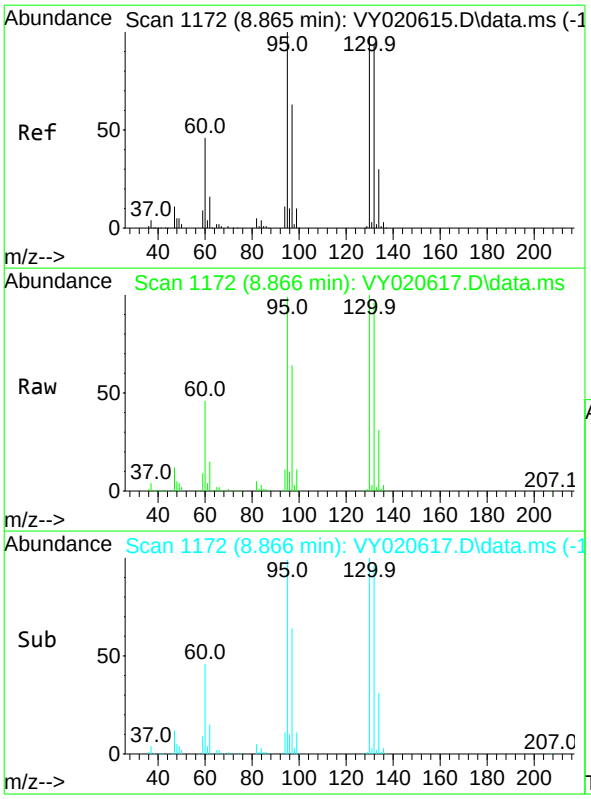



#43
Isopropyl Acetate
Concen: 135.916 ug/l
RT: 8.195 min Scan# 1062
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 433206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.6 | 23.8 | 35.6 |
| 87 | 13.2 | 10.2 | 15.4 |

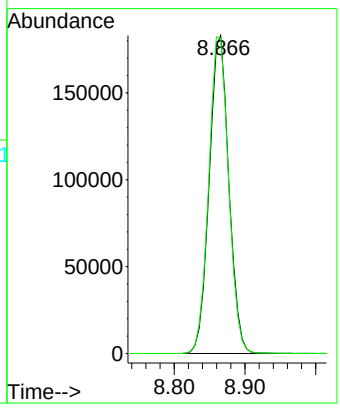





#44
Trichloroethene
Concen: 136.648 ug/l
RT: 8.866 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:130 Resp: 352263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.1 | 0.0 | 203.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

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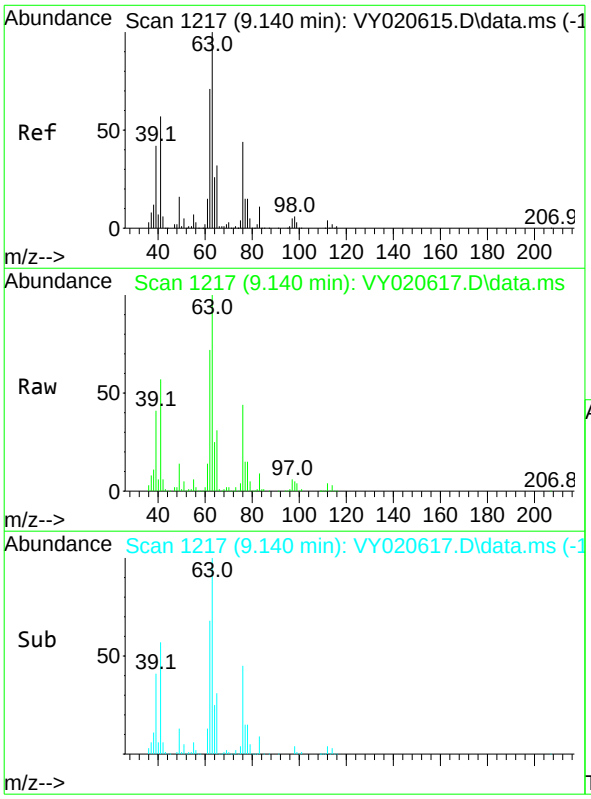
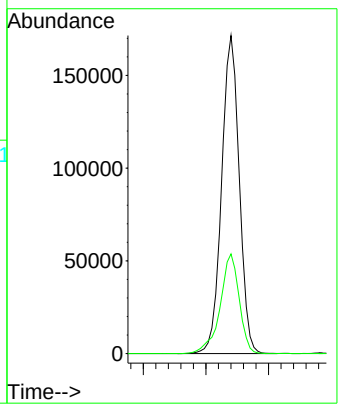
Supervised By :Semsettin Yesilyurt 12/18/2024

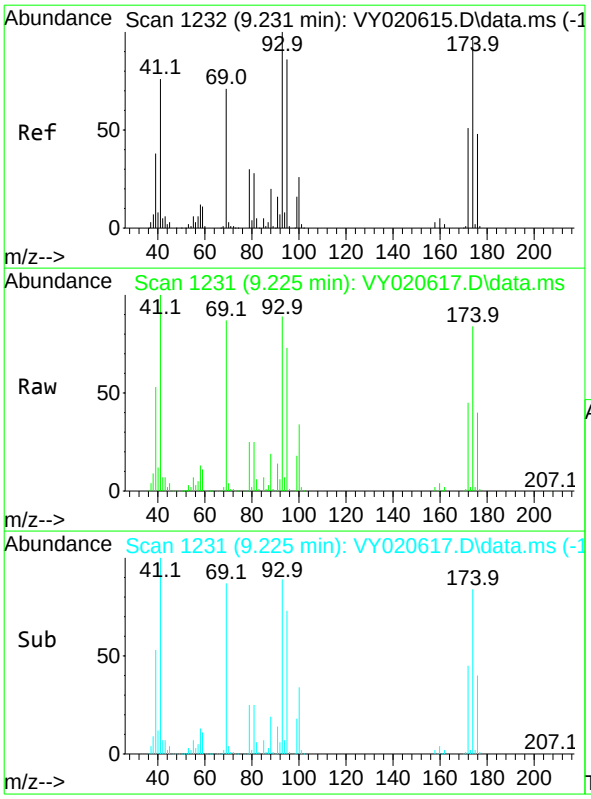



#45
1,2-Dichloropropane
Concen: 136.766 ug/l
RT: 9.140 min Scan# 1217
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 63 Resp: 335340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 25.9 | 38.9 |

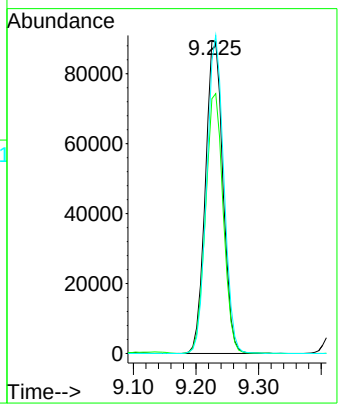





#46
Dibromomethane
Concen: 134.905 ug/l
RT: 9.225 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 93 Resp: 174812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.1 | 66.7 | 100.1 |
| 174 | 98.5 | 77.8 | 116.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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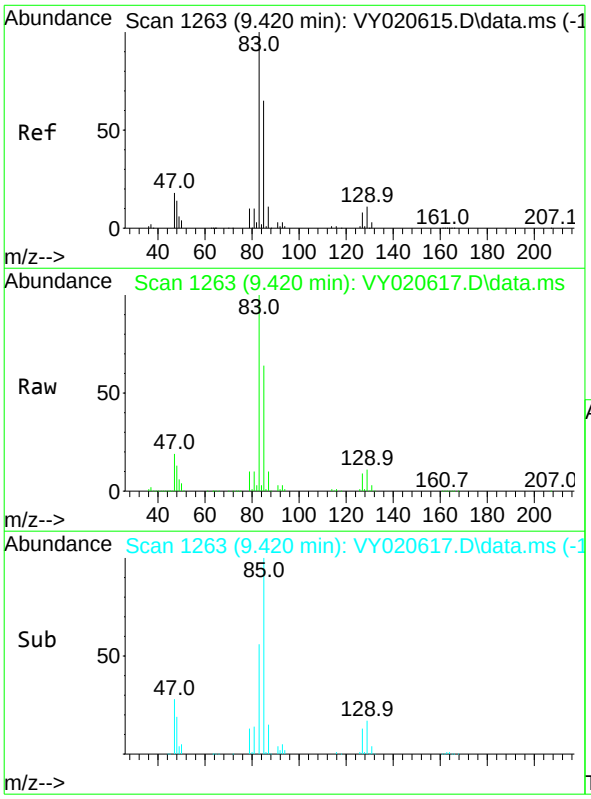
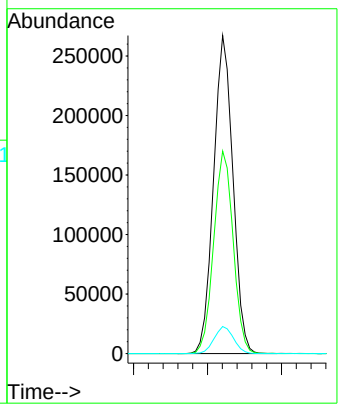
Supervised By :Semsettin Yesilyurt 12/18/2024

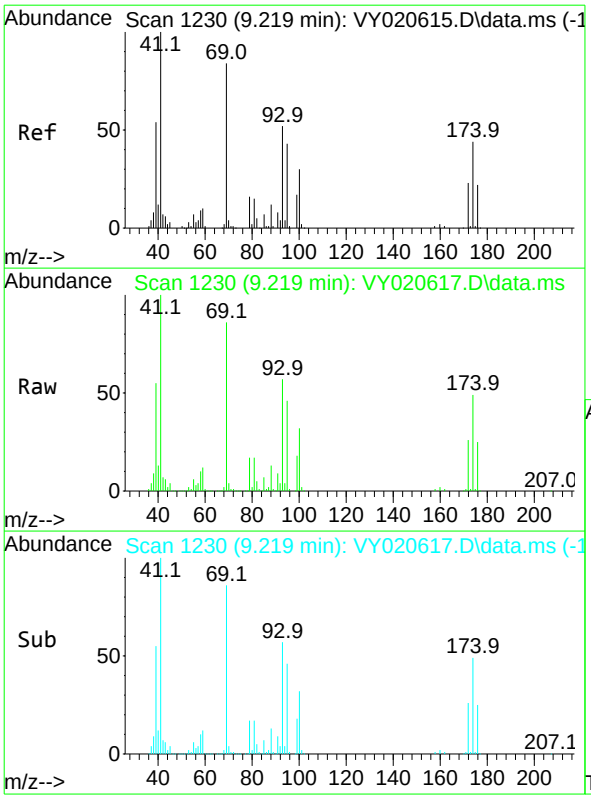



#47
Bromodichloromethane
Concen: 138.787 ug/l
RT: 9.420 min Scan# 1263
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 83 Resp: 485795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.7 | 52.1 | 78.1 |
| 127 | 8.5 | 6.7 | 10.1 |

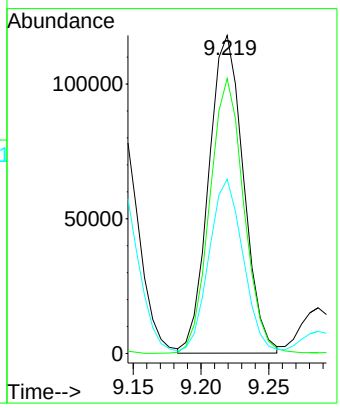





#48
Methyl methacrylate
Concen: 138.957 ug/l
RT: 9.219 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 41 Resp: 210550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 85.2 | 67.2 | 100.8 |
| 39 | 52.7 | 42.2 | 63.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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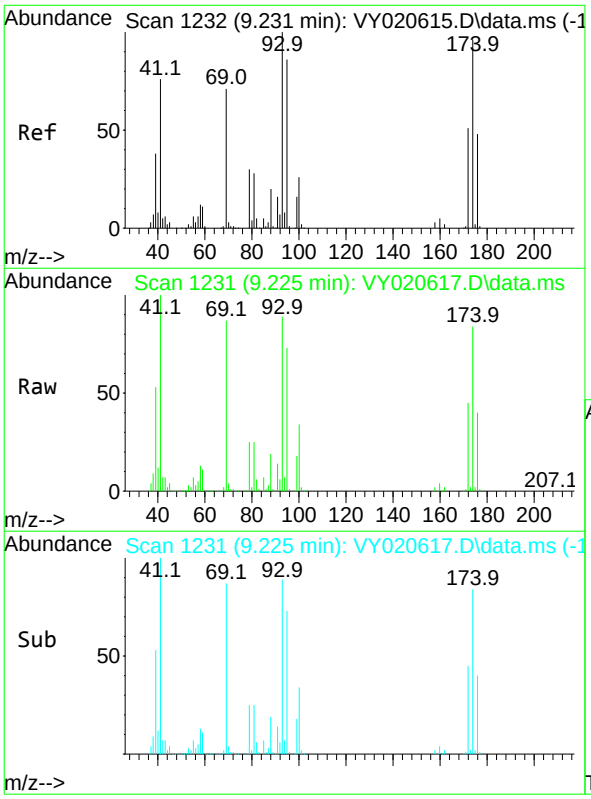
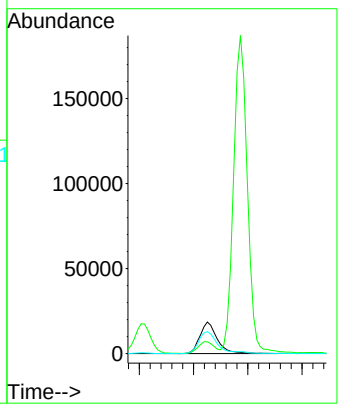
Supervised By :Semsettin Yesilyurt 12/18/2024

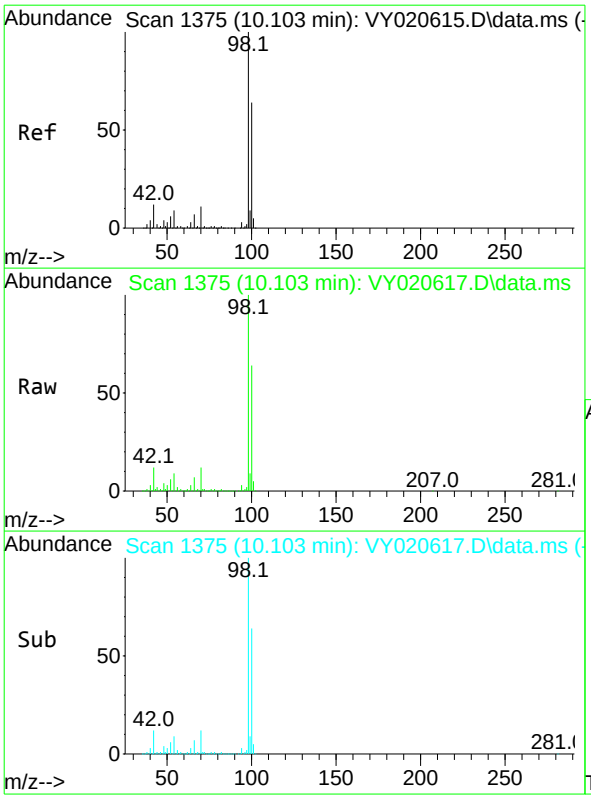



#49
1,4-Dioxane
Concen: 2773.834 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 88 Resp: 41221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.1 | 27.6 | 41.4 |
| 58 | 77.1 | 61.7 | 92.5 |

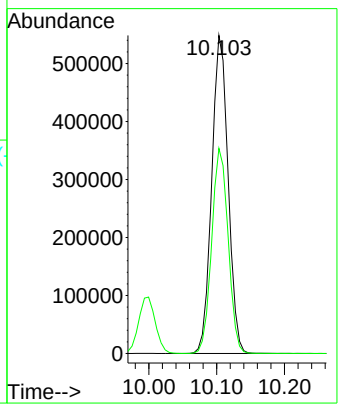





#50
Toluene-d8
Concen: 133.785 ug/l
RT: 10.103 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 98 Resp: 919148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.1 | 78.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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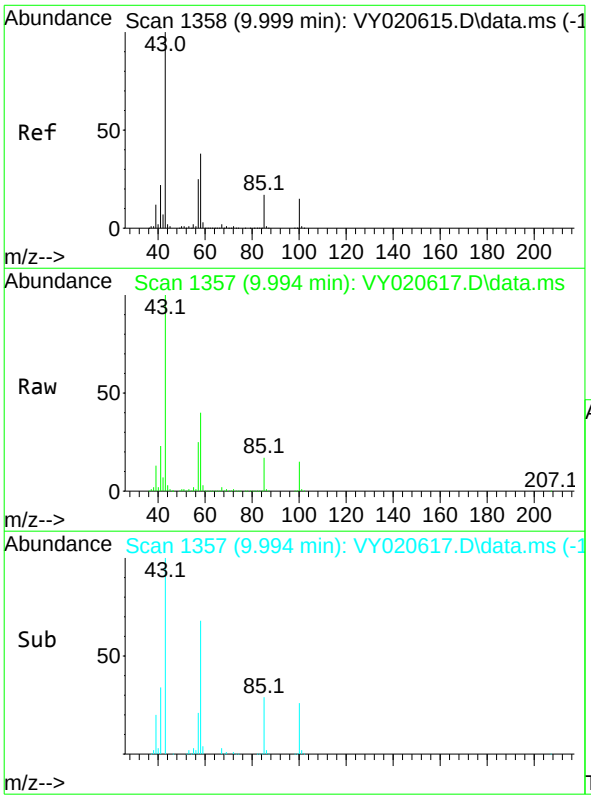
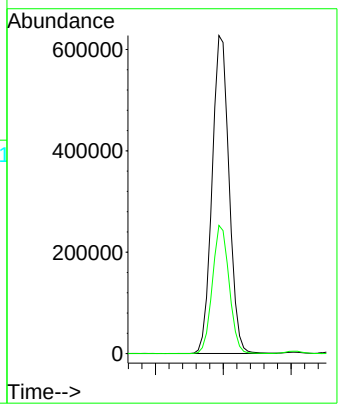
Supervised By :Semsettin Yesilyurt 12/18/2024

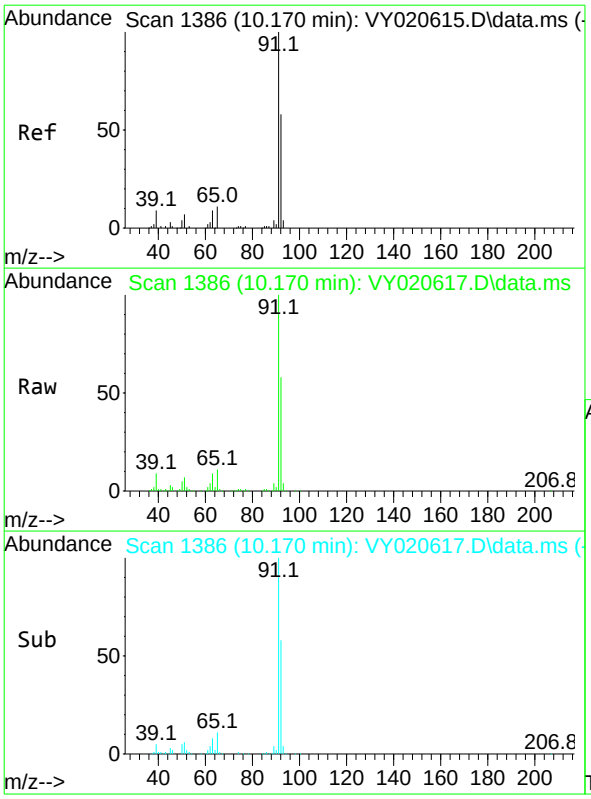



#51
4-Methyl-2-Pentanone
Concen: 649.161 ug/l
RT: 9.994 min Scan# 1357
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 1092140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.9 | 31.4 | 47.2 |

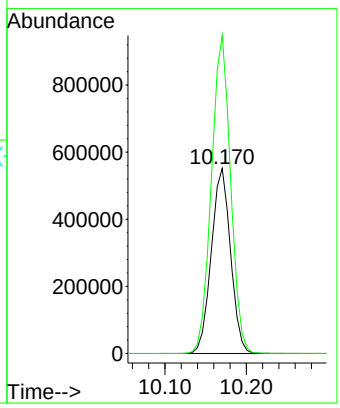





#52
Toluene
Concen: 138.659 ug/l
RT: 10.170 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 92 Resp: 904033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 137.4 | 206.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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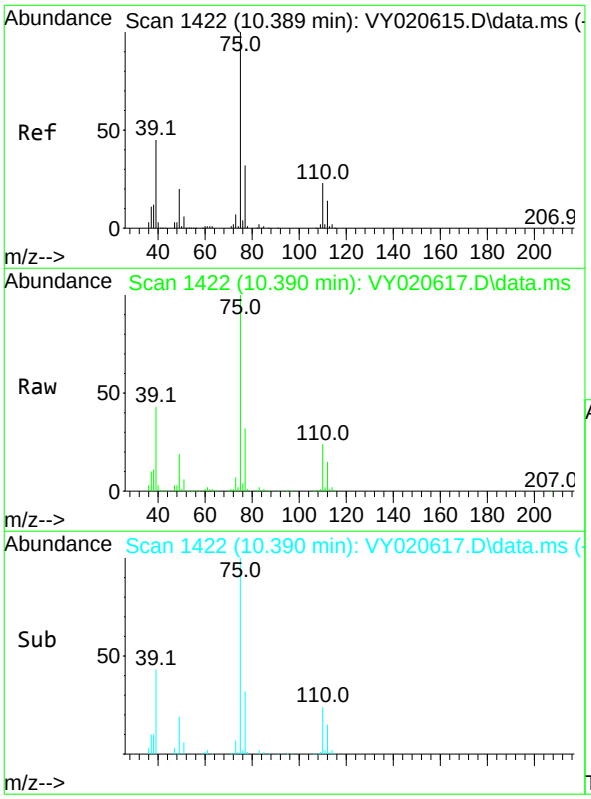
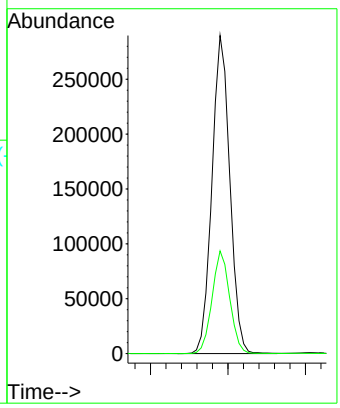
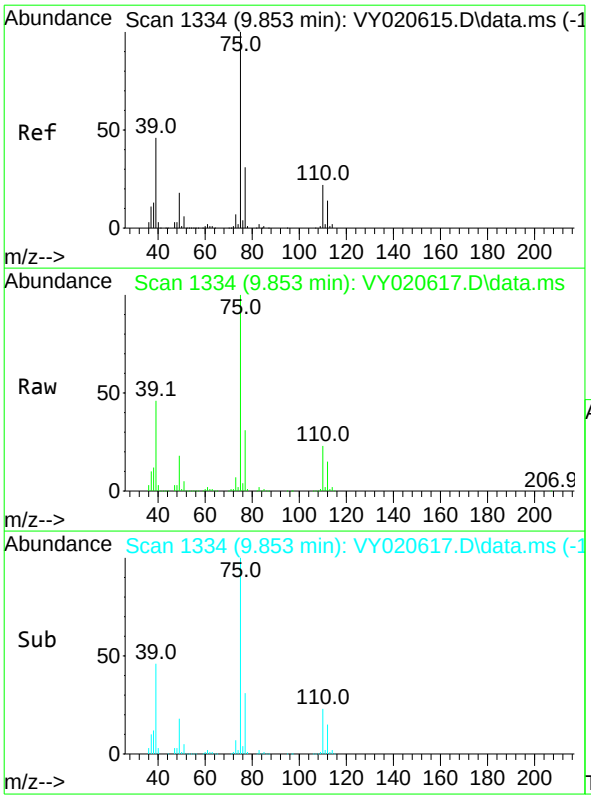



#53
t-1,3-Dichloropropene
Concen: 142.541 ug/l
RT: 10.390 min Scan# 1422
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 75 Resp: 464905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 25.4 | 38.2 |

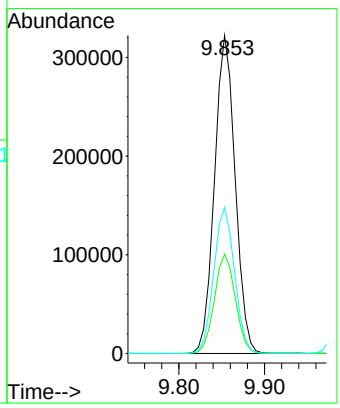





#54
cis-1,3-Dichloropropene
Concen: 139.760 ug/l
RT: 9.853 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 75 Resp: 540157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 24.6 | 36.8 |
| 39 | 46.0 | 36.4 | 54.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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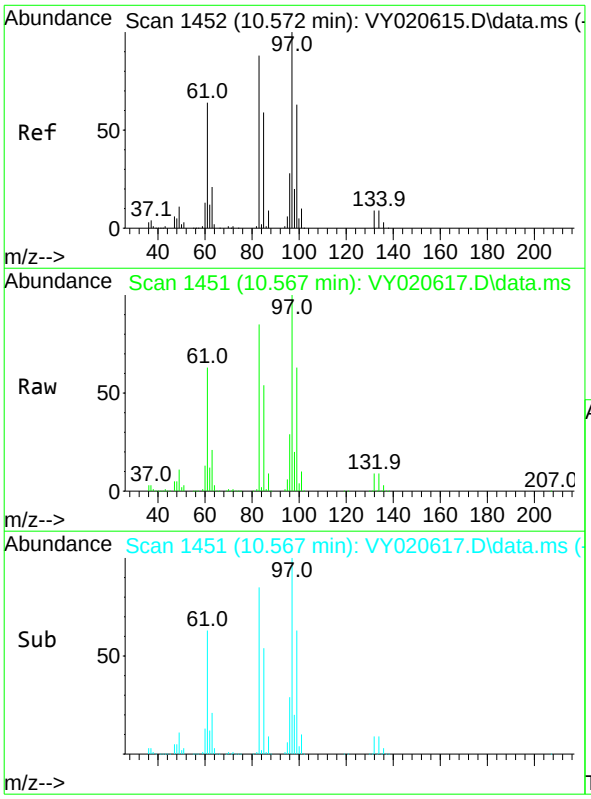
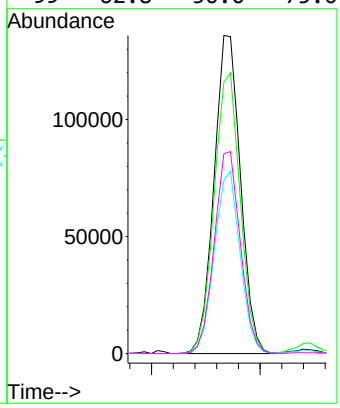
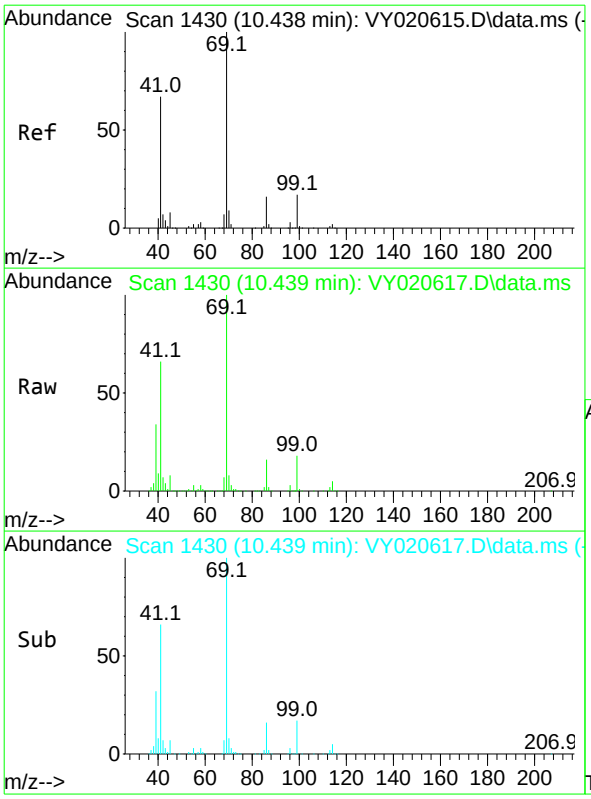



#55
1,1,2-Trichloroethane
Concen: 134.466 ug/l
RT: 10.567 min Scan# 1451
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 97 Resp: 230372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.3 | 70.4 | 105.6 |
| 85 | 54.4 | 47.2 | 70.8 |
| 99 | 62.8 | 50.0 | 75.0 |

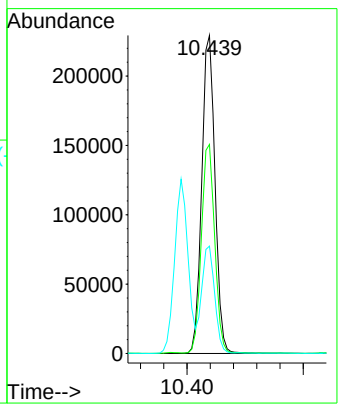





#56
Ethyl methacrylate
Concen: 146.095 ug/l
RT: 10.439 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 69 Resp: 363115

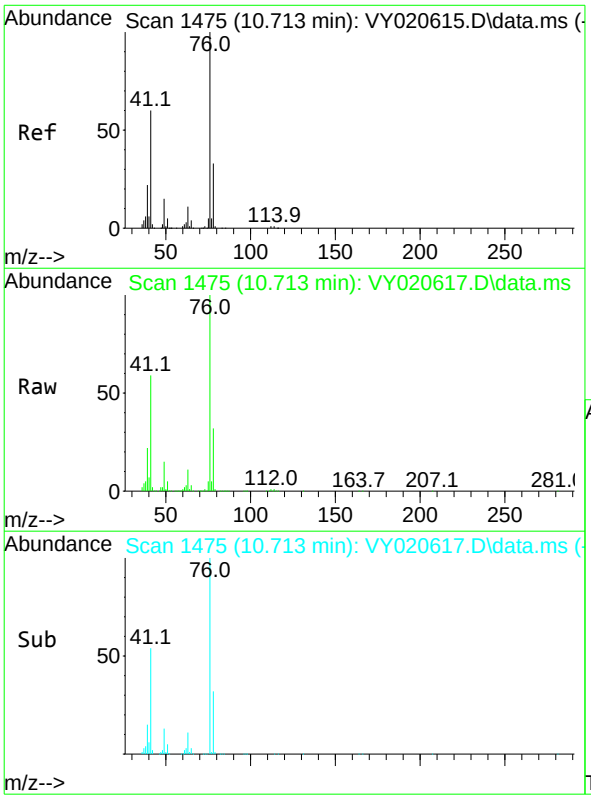
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.9 | 54.0 | 81.0 |
| 39 | 33.3 | 27.9 | 41.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

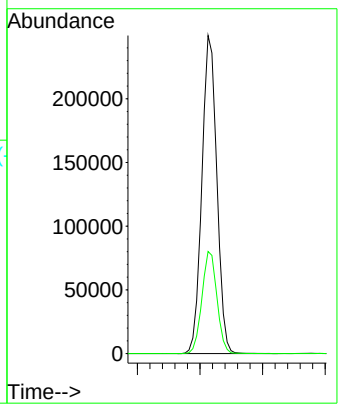
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

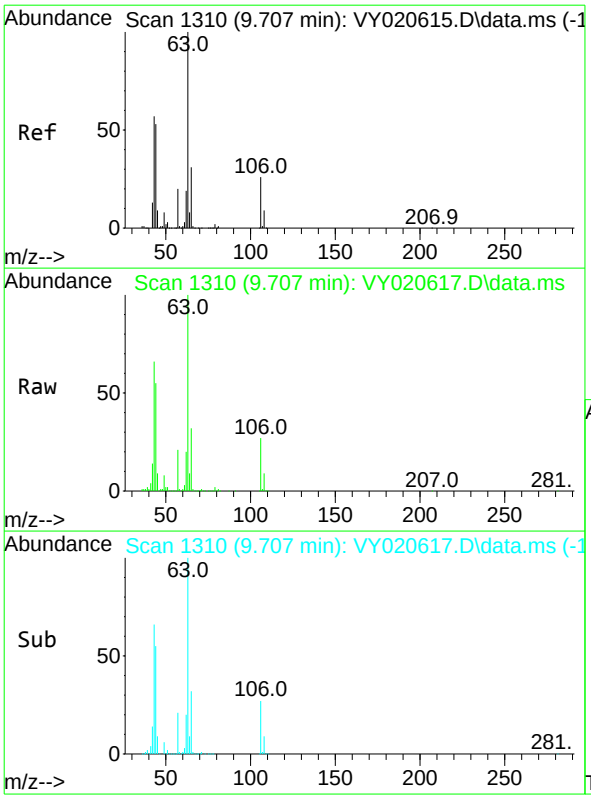



#57
1,3-Dichloropropane
Concen: 135.406 ug/l
RT: 10.713 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 76 Resp: 413542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.8 | 38.8 |

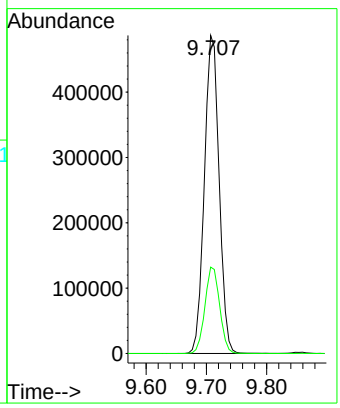





#58
2-Chloroethyl Vinyl ether
Concen: 790.569 ug/l
RT: 9.707 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 63 Resp: 826777

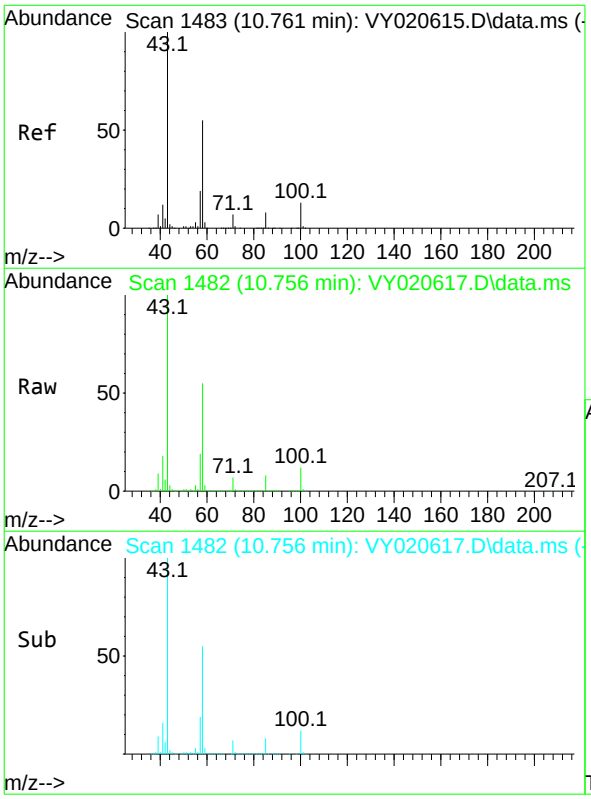
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.2 | 21.5 | 32.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

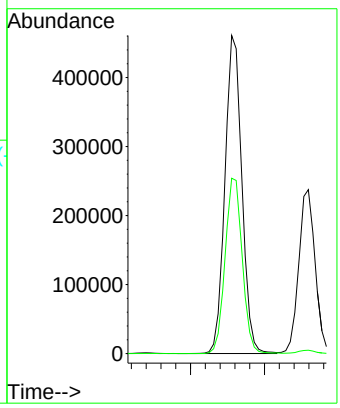
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

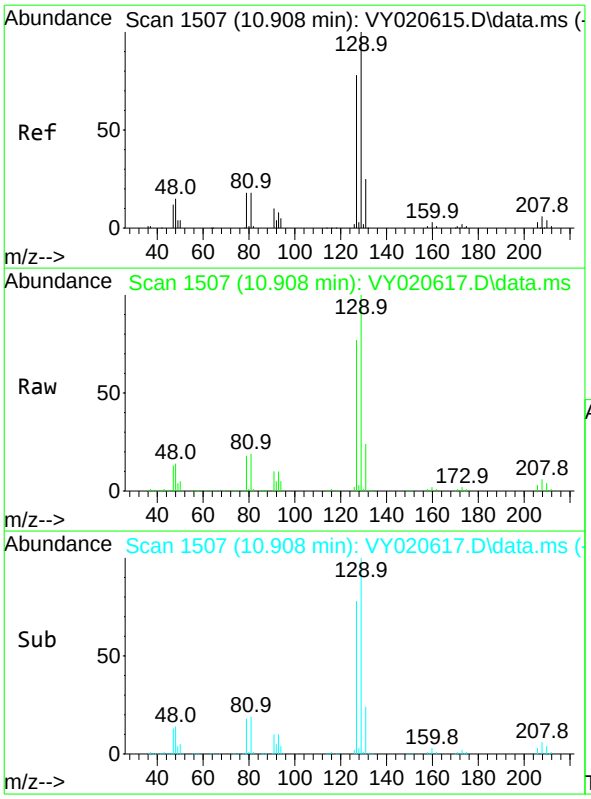



#59
2-Hexanone
Concen: 677.527 ug/l
RT: 10.756 min Scan# 1482
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 731842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.9 | 27.2 | 81.6 |

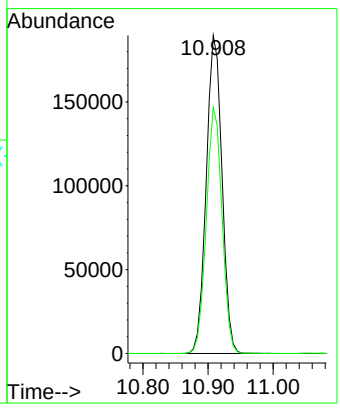





#60
Dibromochloromethane
Concen: 138.906 ug/l
RT: 10.908 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:129 Resp: 318266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.1 | 114.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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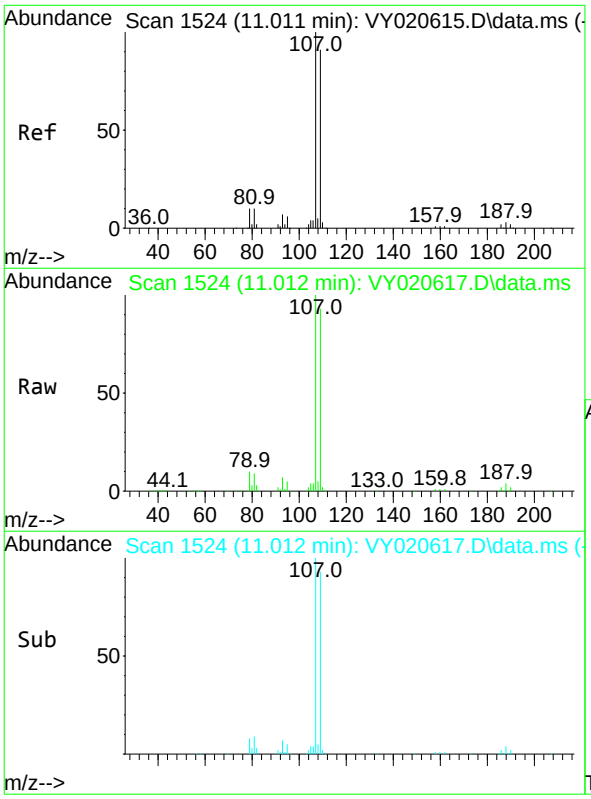
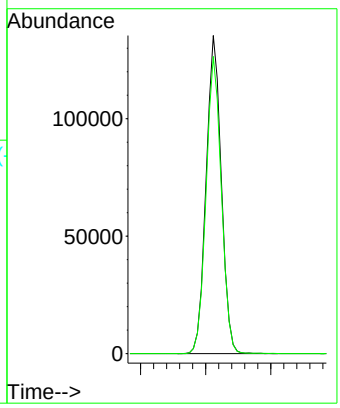
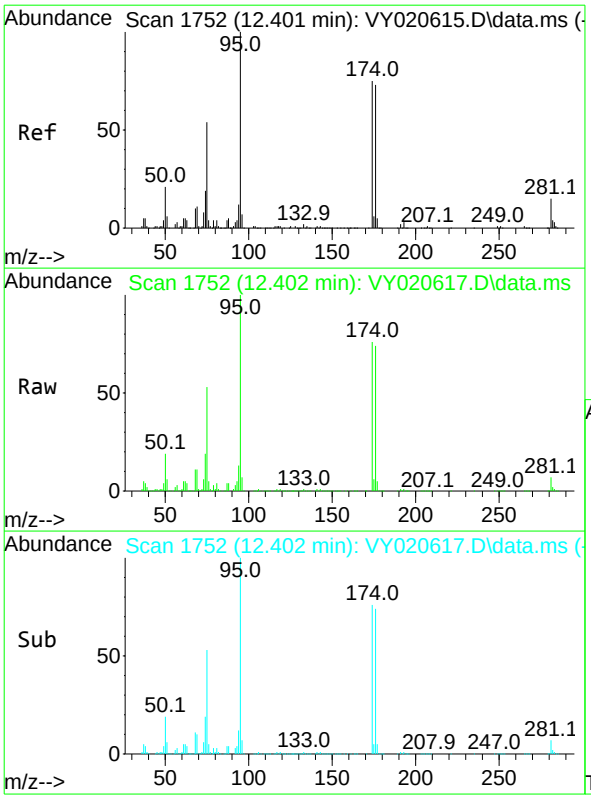



#61
1,2-Dibromoethane
Concen: 137.043 ug/l
RT: 11.012 min Scan# 1524
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:107 Resp: 218394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.2 | 75.4 | 113.2 |

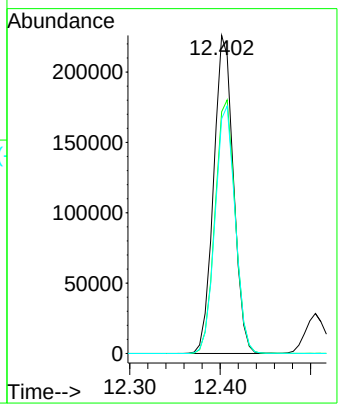





#62
4-Bromofluorobenzene
Concen: 127.965 ug/l
RT: 12.402 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 95 Resp: 343903

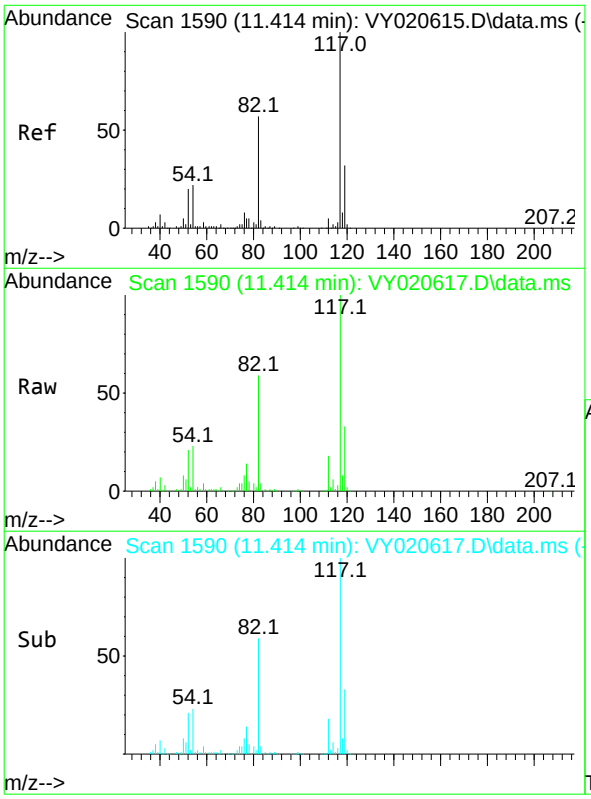
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.8 | 0.0 | 161.8 |
| 176 | 78.9 | 0.0 | 156.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

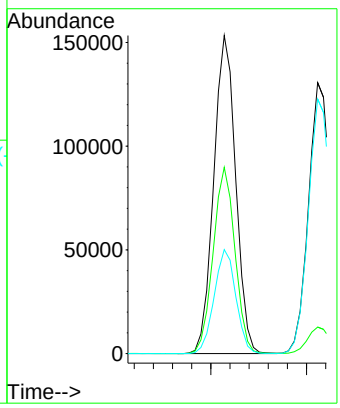
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

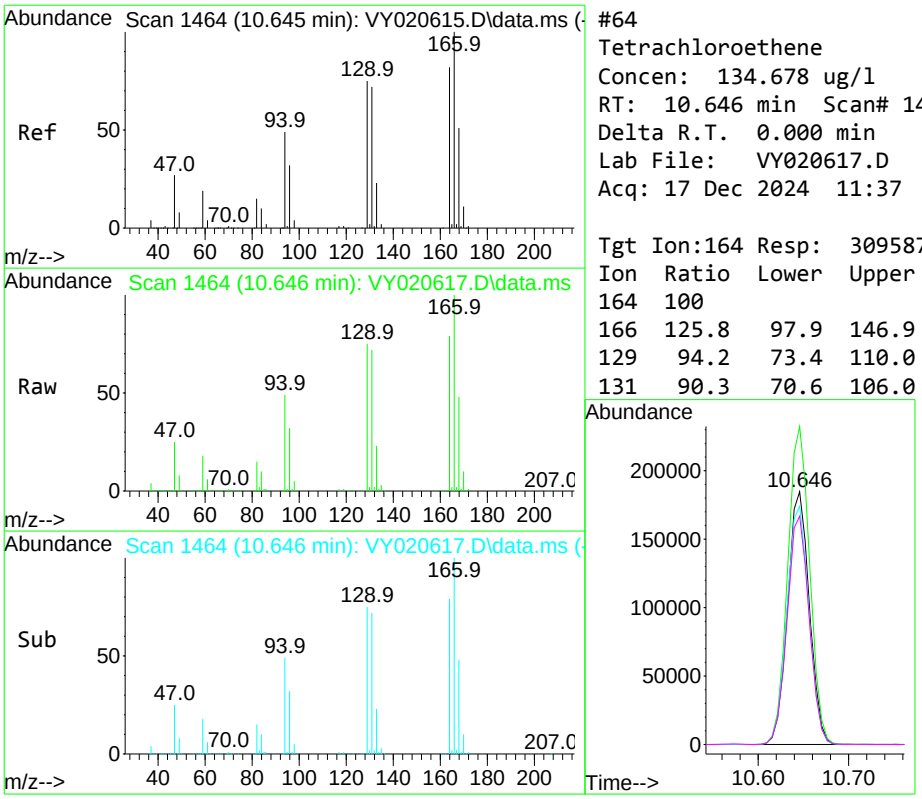



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:117 Resp: 244385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.6 | 45.8 | 68.6 |
| 119 | 32.7 | 25.3 | 37.9 |






#64
Tetrachloroethene
Concen: 134.678 ug/l
RT: 10.646 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:164 Resp: 309587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.8 | 97.9 | 146.9 |
| 129 | 94.2 | 73.4 | 110.0 |
| 131 | 90.3 | 70.6 | 106.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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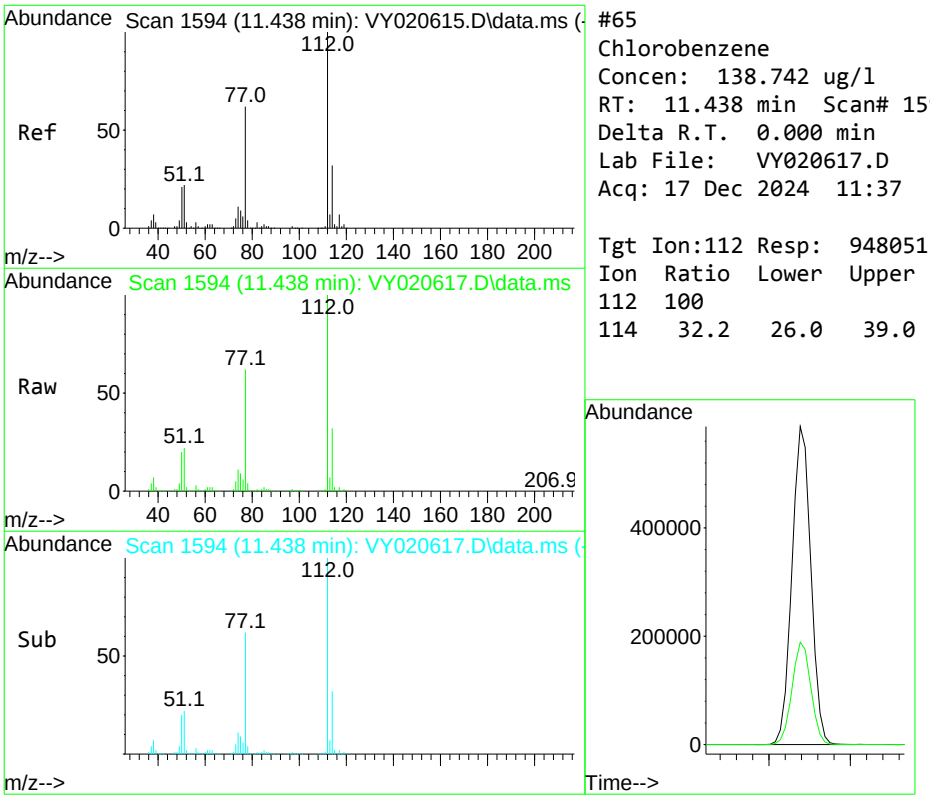
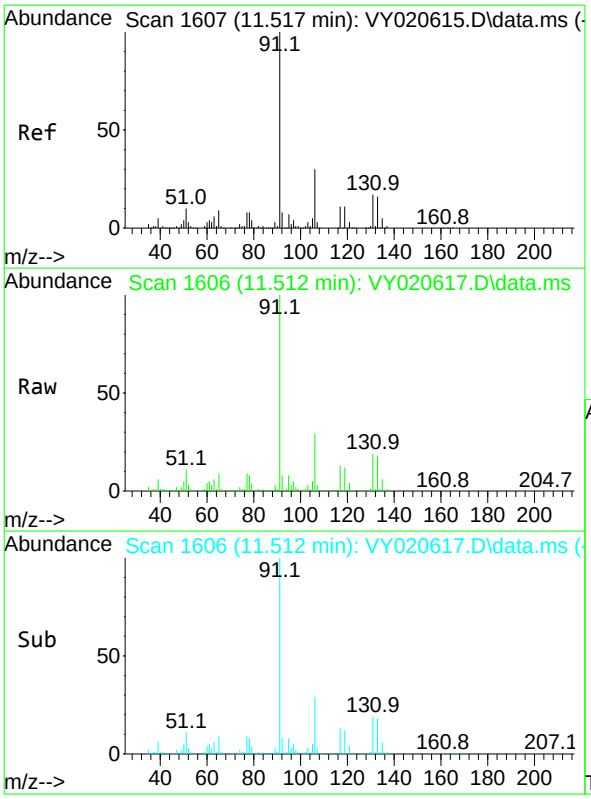



#65
Chlorobenzene
Concen: 138.742 ug/l
RT: 11.438 min Scan# 1594
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:112 Resp: 948051

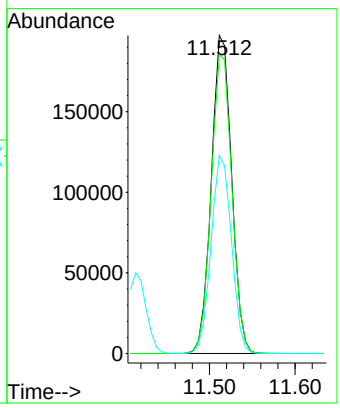
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 26.0 | 39.0 |




#66
1,1,1,2-Tetrachloroethane
Concen: 138.995 ug/l
RT: 11.512 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:131 Resp: 324778

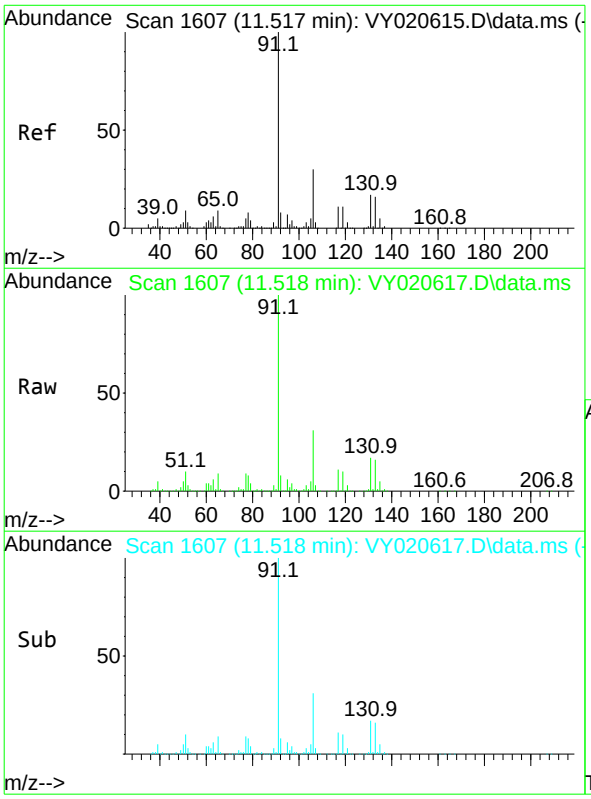
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 46.8 | 140.3 |
| 119 | 62.8 | 31.8 | 95.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

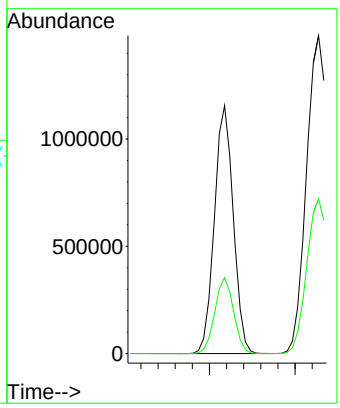
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

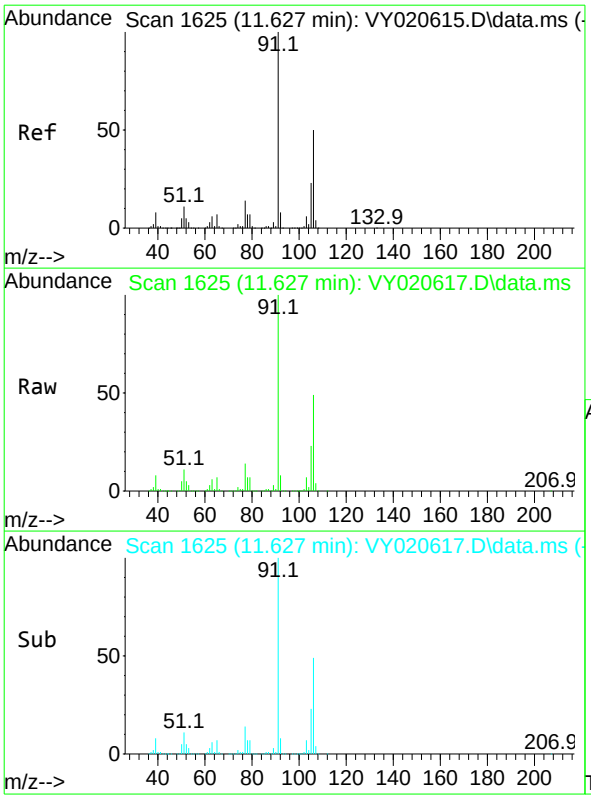



#67
Ethyl Benzene
Concen: 140.410 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 91 Resp: 1770086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.7 | 23.9 | 35.9 |

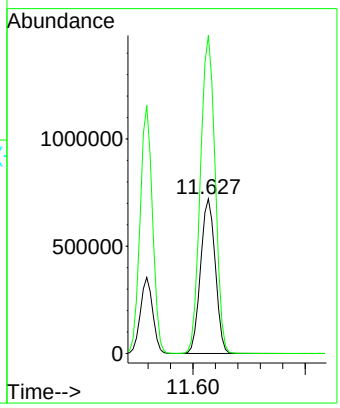





#68
m/p-Xylenes
Concen: 279.114 ug/l
RT: 11.627 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:106 Resp: 1308282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.1 | 165.0 | 247.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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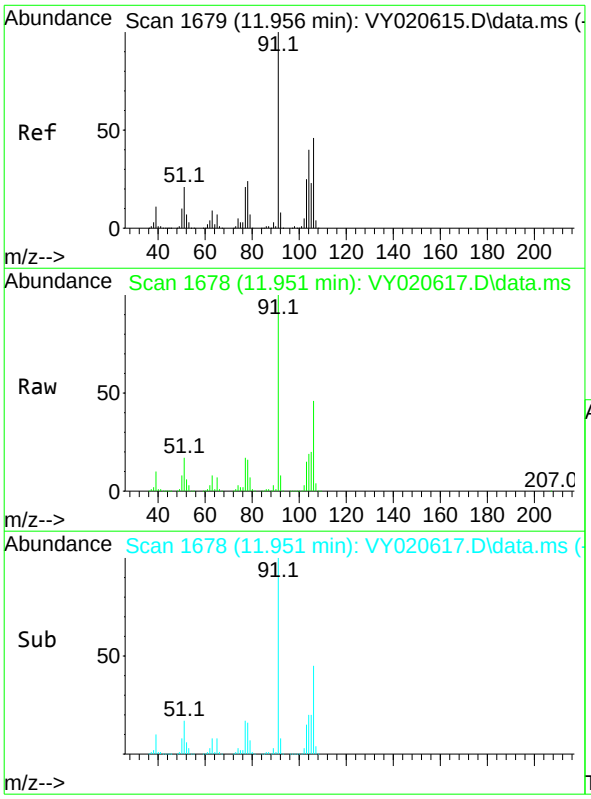
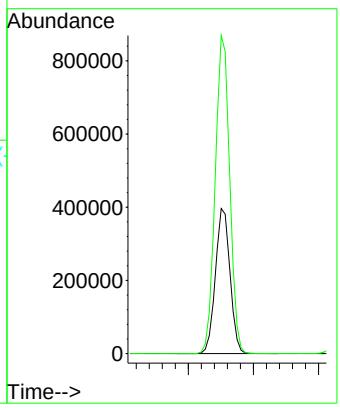
Supervised By :Semsettin Yesilyurt 12/18/2024

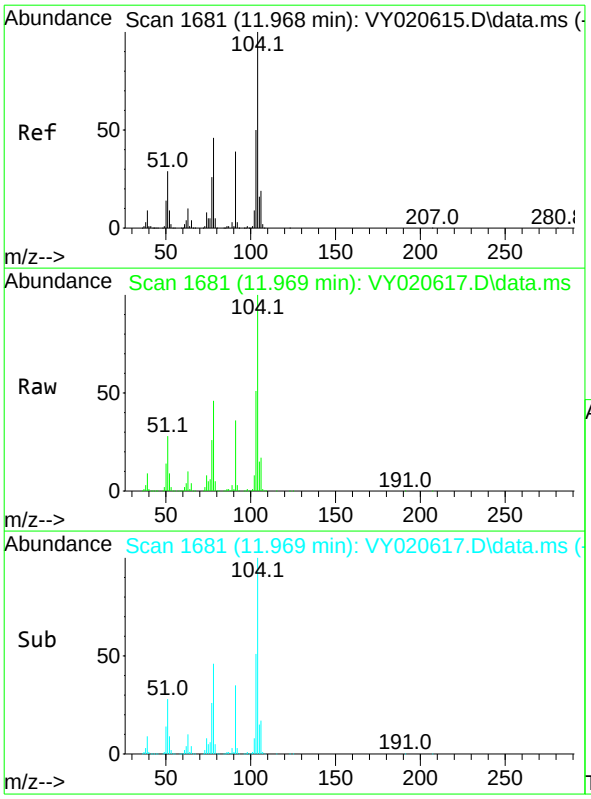



#69
o-Xylene
Concen: 141.099 ug/l
RT: 11.951 min Scan# 1678
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:106 Resp: 617079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.7 | 108.4 | 325.2 |

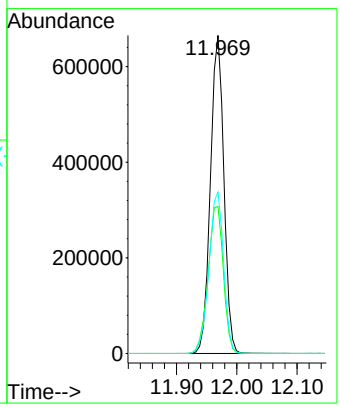





#70
Styrene
Concen: 141.122 ug/l
RT: 11.969 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:104 Resp: 1031166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.6 | 41.6 | 62.4 |
| 103 | 55.3 | 43.7 | 65.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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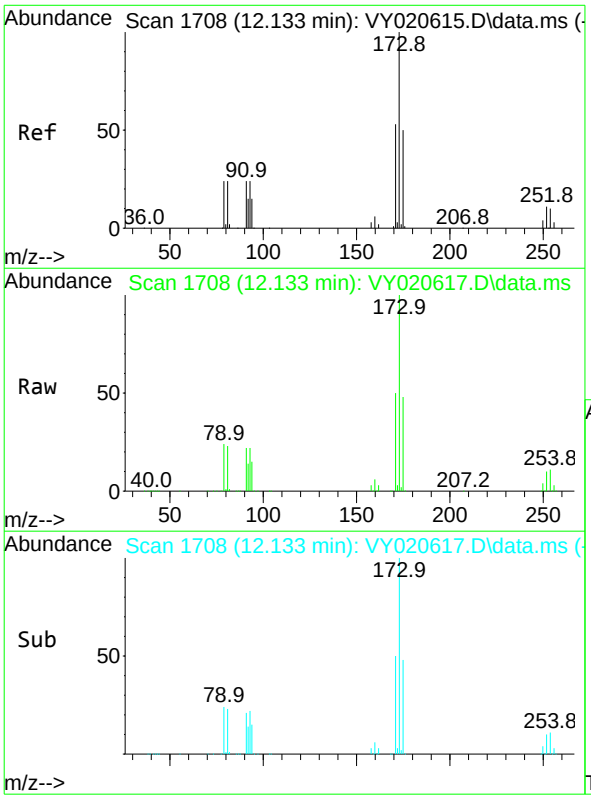
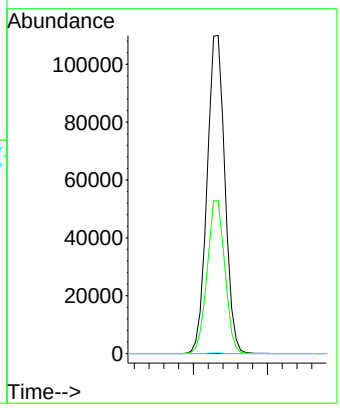
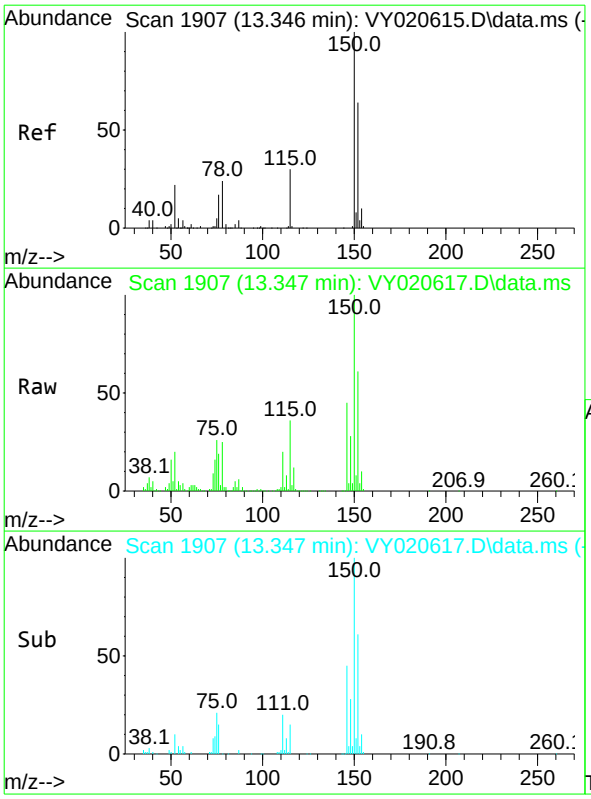



#71
Bromoform
Concen: 139.463 ug/l
RT: 12.133 min Scan# 1708
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:173 Resp: 183216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 24.6 | 74.0 |
| 254 | 0.2 | 0.0 | 0.0# |

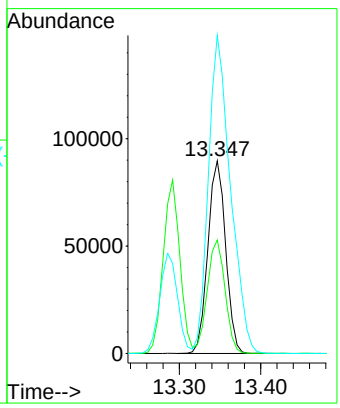





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:152 Resp: 135852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.2 | 30.2 | 90.6 |
| 150 | 205.6 | 0.0 | 355.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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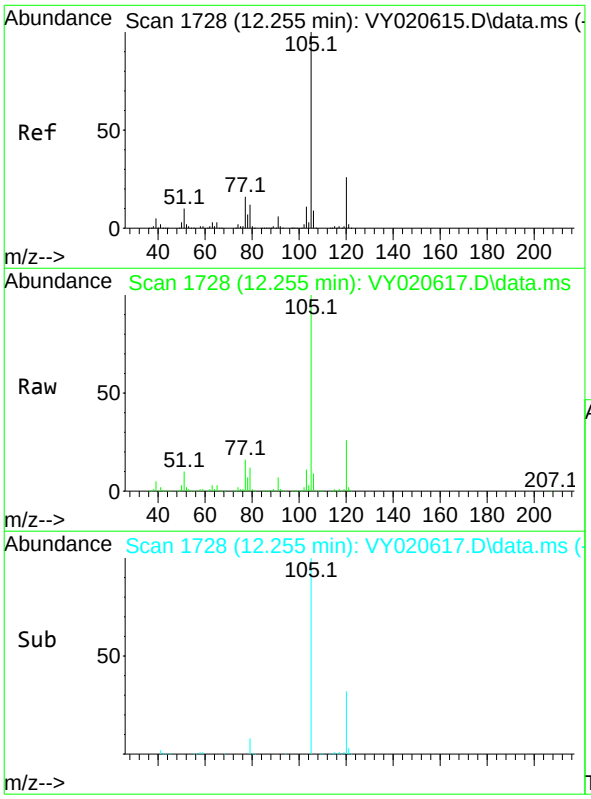
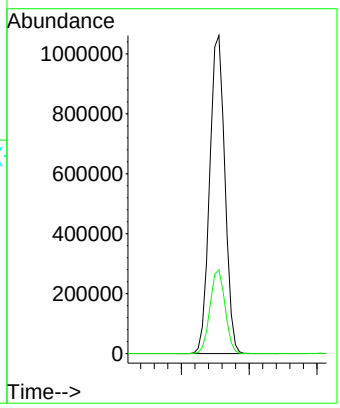
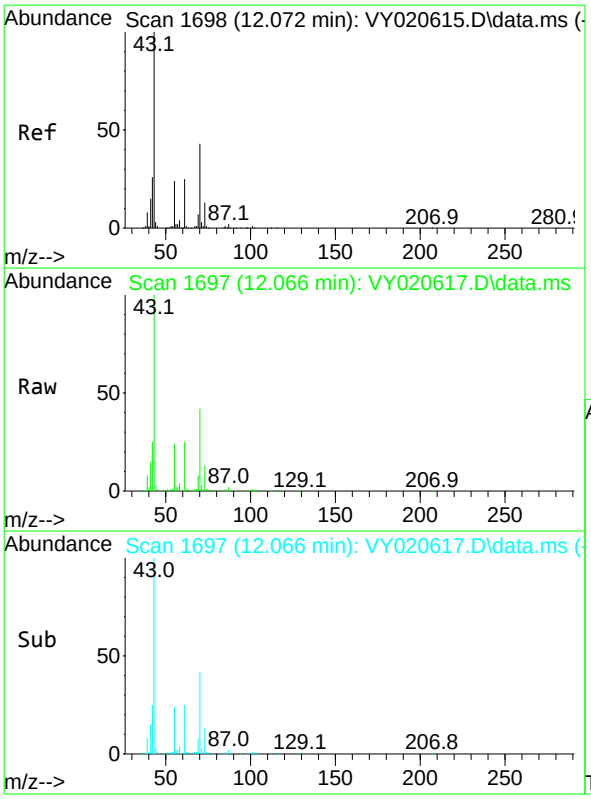



#73
Isopropylbenzene
Concen: 139.276 ug/l
RT: 12.255 min Scan# 1728
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:105 Resp: 1651138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |

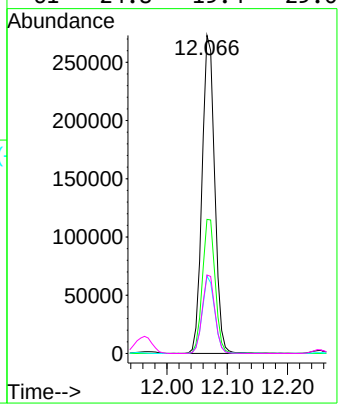





#74
N-amyl acetate
Concen: 142.807 ug/l
RT: 12.066 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 396216

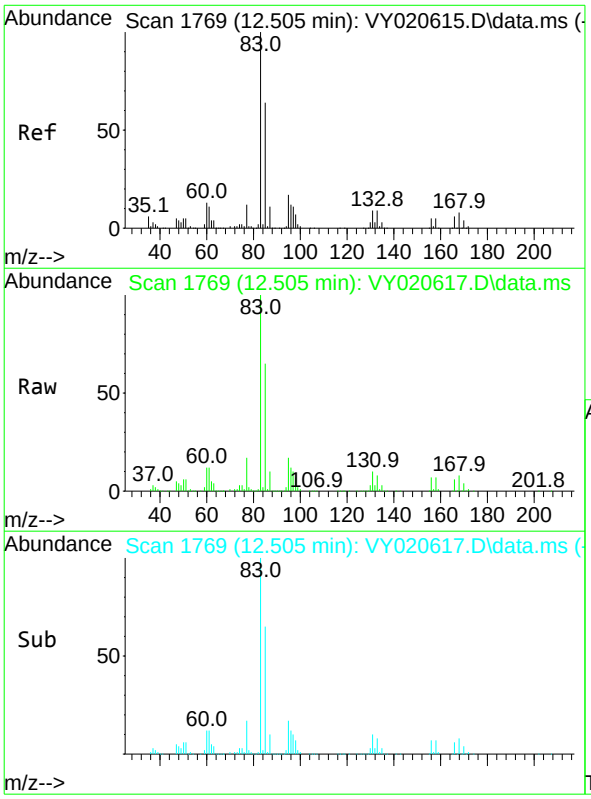
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.7 | 34.2 | 51.2 |
| 55 | 24.0 | 19.6 | 29.4 |
| 61 | 24.8 | 19.4 | 29.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

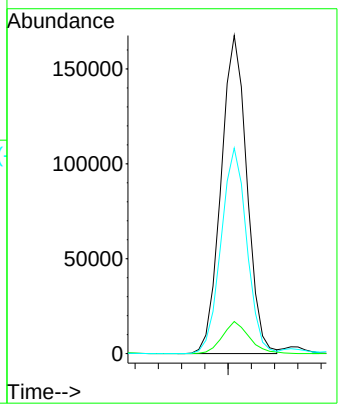
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

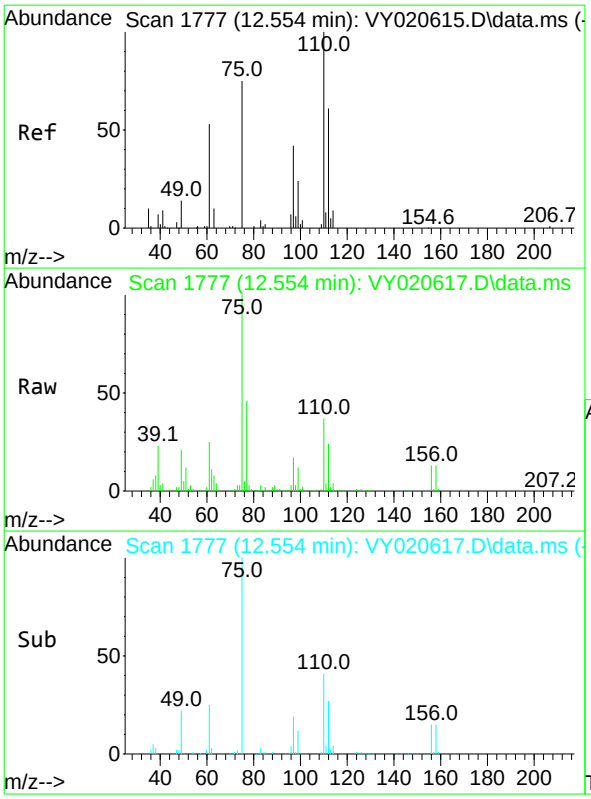



#75
1,1,2,2-Tetrachloroethane
Concen: 134.480 ug/l
RT: 12.505 min Scan# 1769
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 83 Resp: 258787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.5 | 5.2 | 15.6 |
| 85 | 64.3 | 32.5 | 97.4 |

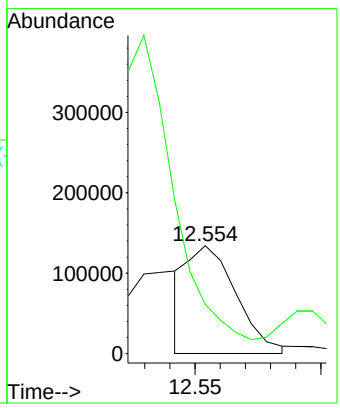





#76
1,2,3-Trichloropropane
Concen: 131.115 ug/l m
RT: 12.554 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 75 Resp: 183456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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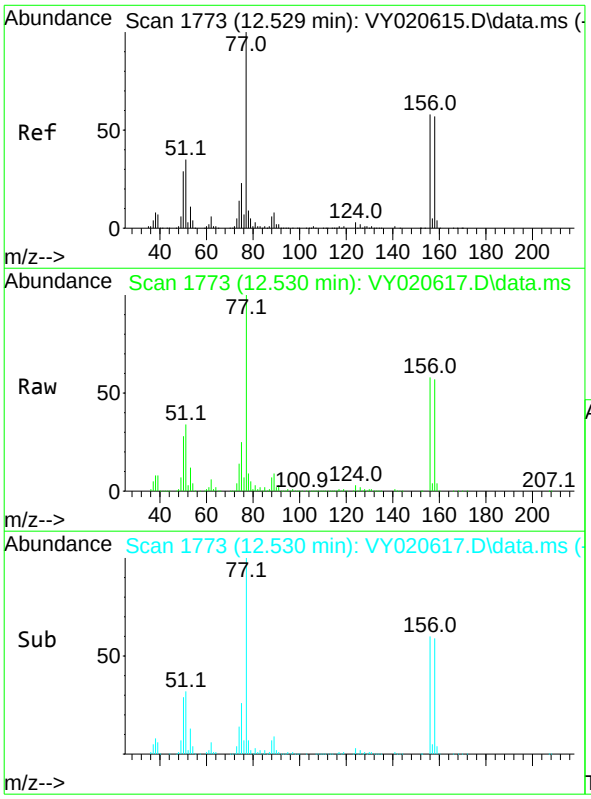
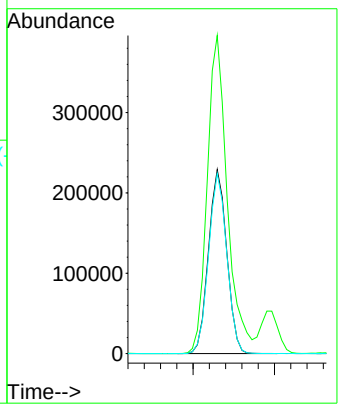
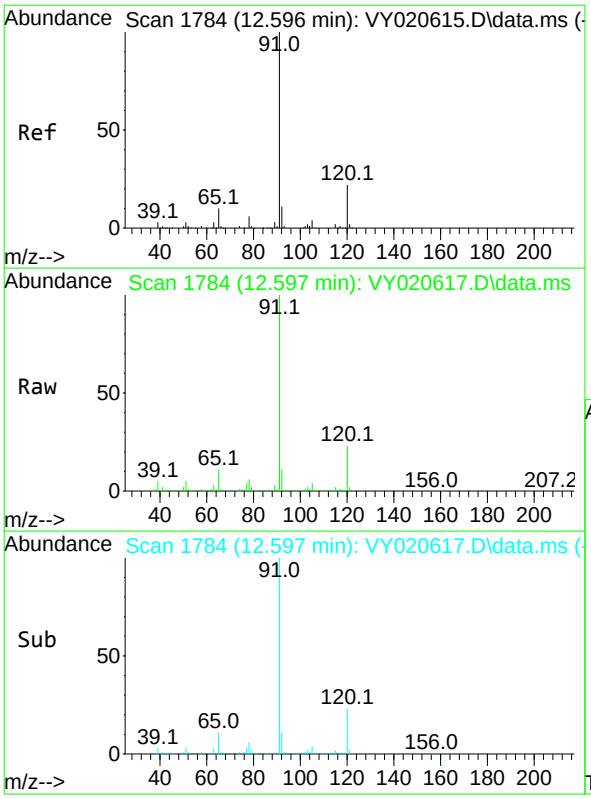



#77
Bromobenzene
Concen: 138.423 ug/l
RT: 12.530 min Scan# 1773
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:156 Resp: 357464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 189.2 | 94.2 | 282.4 |
| 158 | 97.4 | 48.9 | 146.6 |

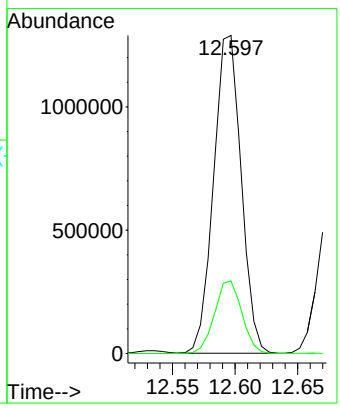





#78
n-propylbenzene
Concen: 138.026 ug/l
RT: 12.597 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 91 Resp: 1971458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.1 | 33.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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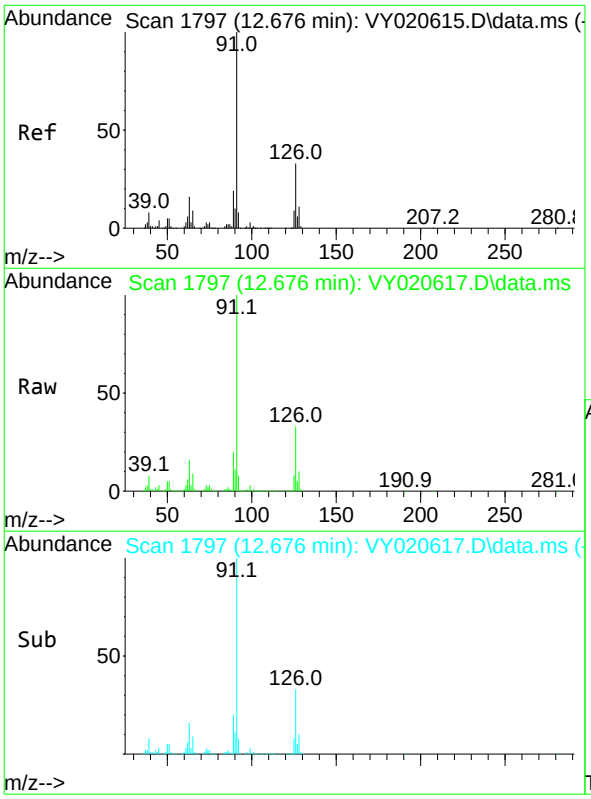
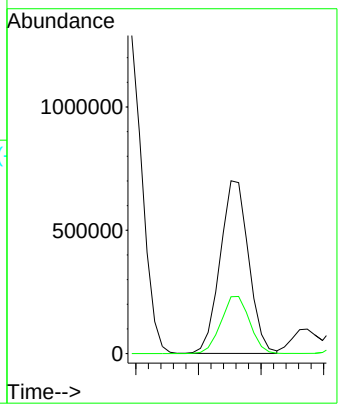
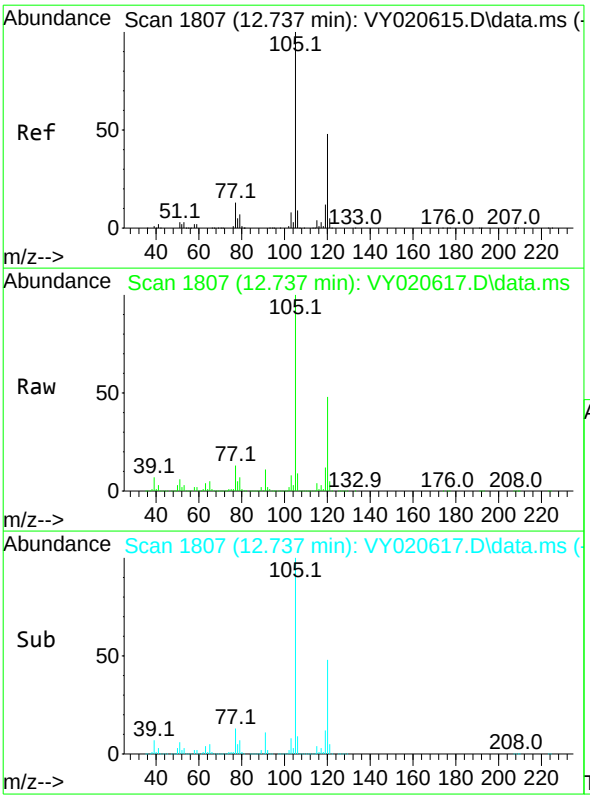



#79
2-Chlorotoluene
Concen: 138.298 ug/l
RT: 12.676 min Scan# 1797
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 91 Resp: 1111362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.3 | 16.6 | 49.7 |






#80
1,3,5-Trimethylbenzene
Concen: 138.553 ug/l
RT: 12.737 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:105 Resp: 1332805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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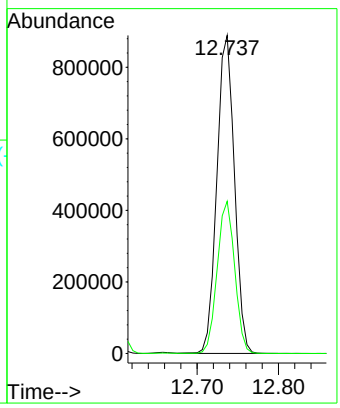
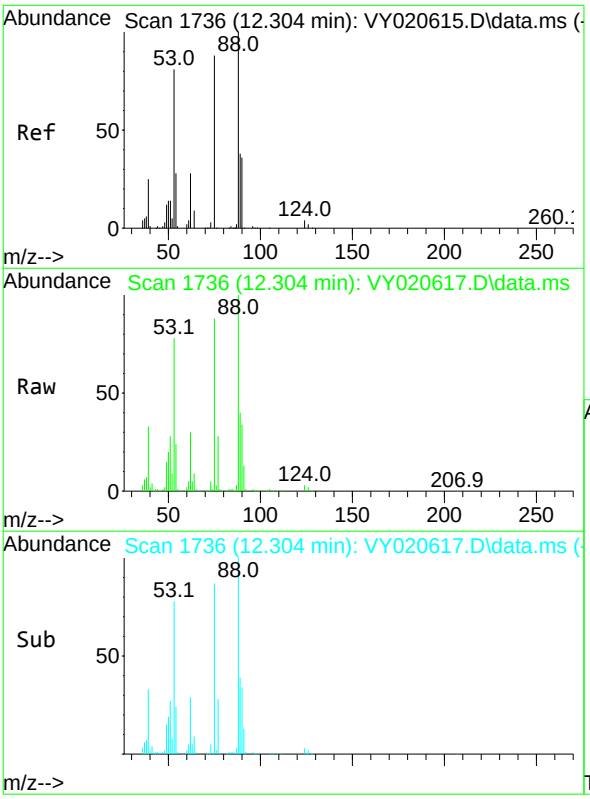
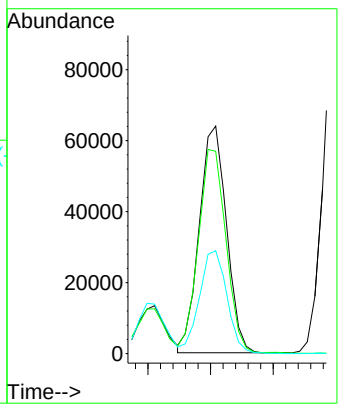


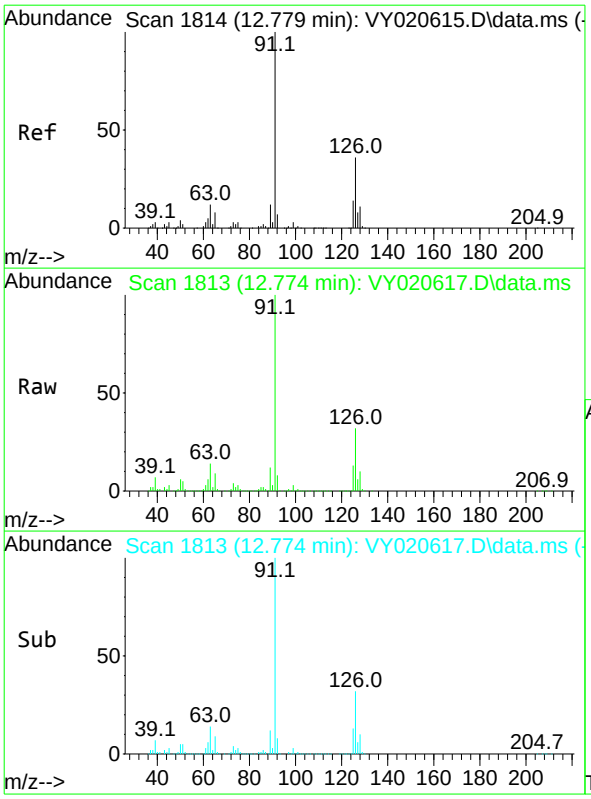




#81
trans-1,4-Dichloro-2-butene
Concen: 143.899 ug/l
RT: 12.304 min Scan# 1736
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 75 Resp: 96747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.7 | 75.4 | 113.2 |
| 89 | 46.1 | 37.0 | 55.4 |

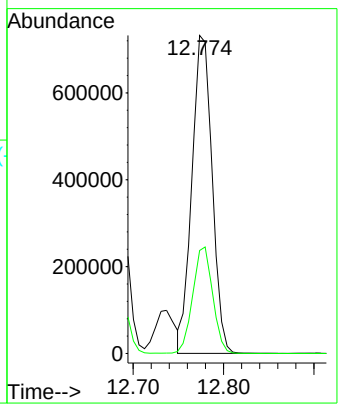





#82
4-Chlorotoluene
Concen: 136.190 ug/l
RT: 12.774 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 91 Resp: 1135416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.1 | 16.6 | 49.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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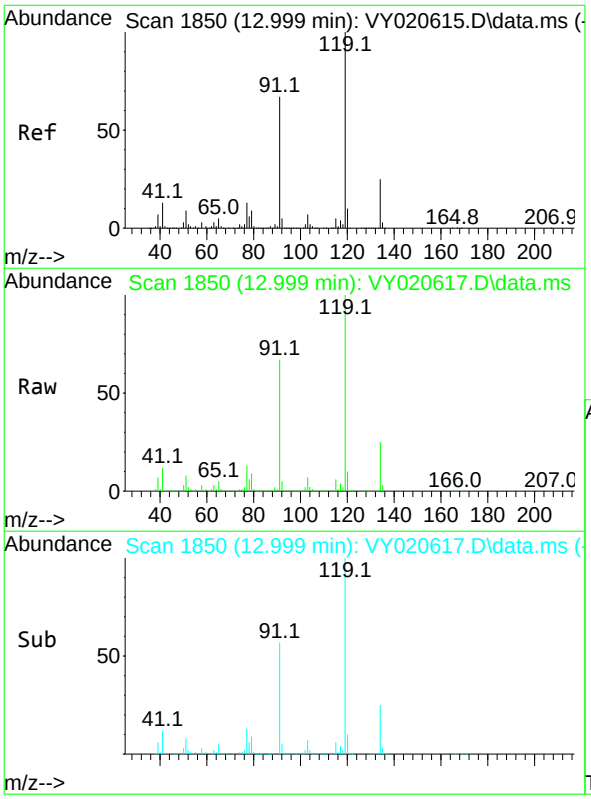
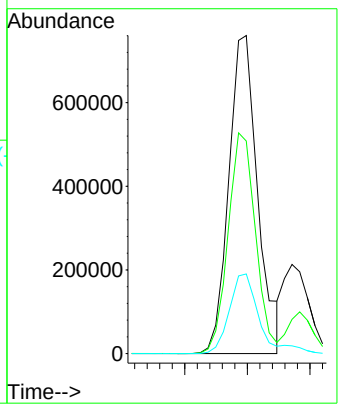
Supervised By :Semsettin Yesilyurt 12/18/2024

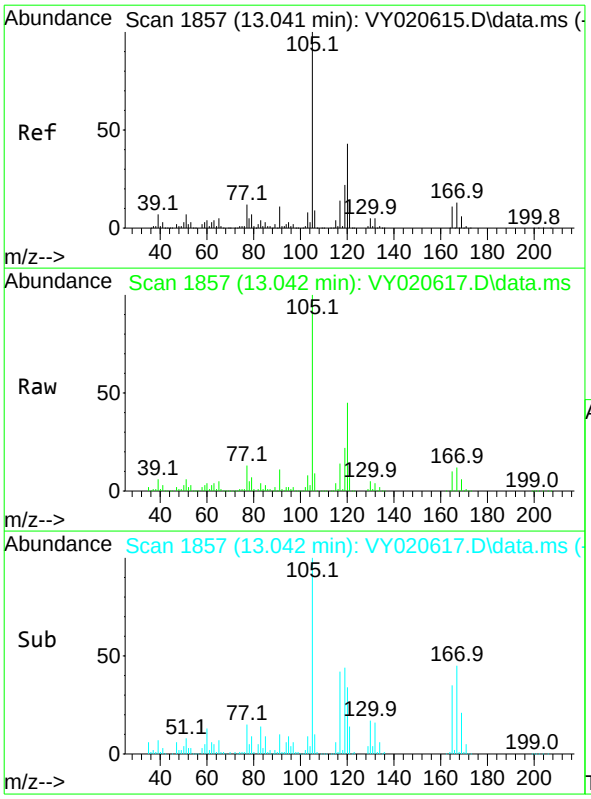



#83
tert-Butylbenzene
Concen: 139.985 ug/l
RT: 12.999 min Scan# 1850
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:119 Resp: 1219521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.8 | 32.9 | 98.6 |
| 134 | 26.0 | 13.1 | 39.1 |

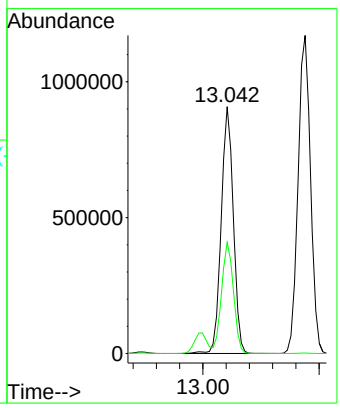





#84
1,2,4-Trimethylbenzene
Concen: 139.253 ug/l
RT: 13.042 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:105 Resp: 1313945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.2 | 21.8 | 65.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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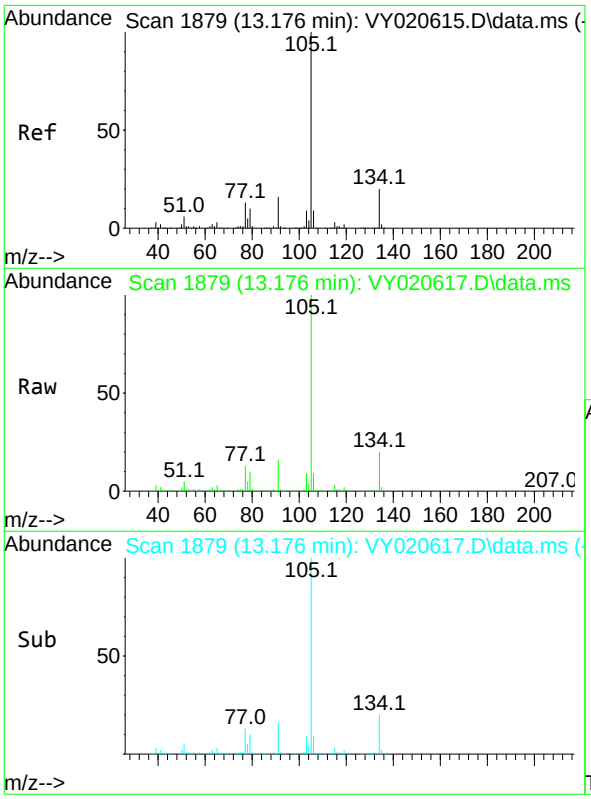
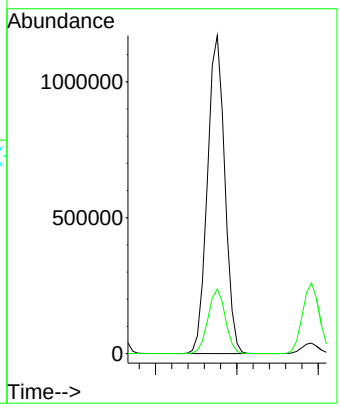
Supervised By :Semsettin Yesilyurt 12/18/2024

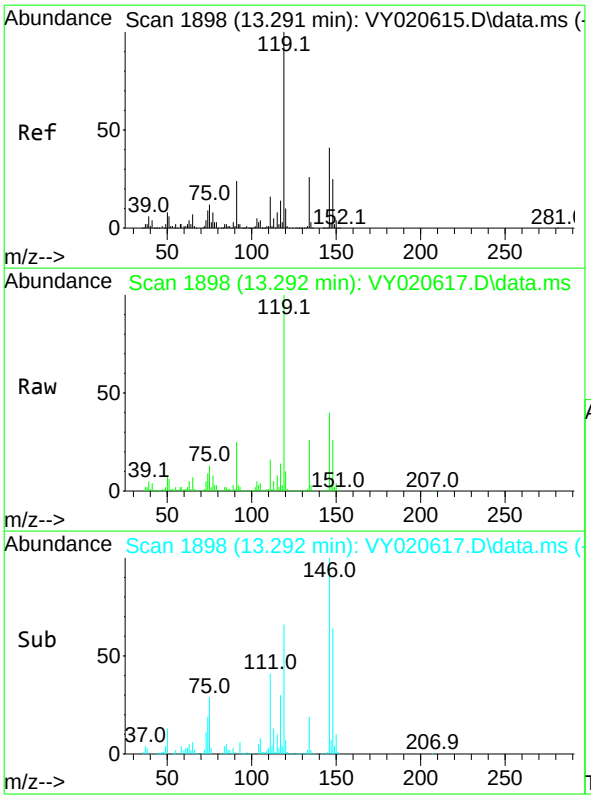



#85
sec-Butylbenzene
Concen: 137.147 ug/l
RT: 13.176 min Scan# 1879
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:105 Resp: 1737212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.2 | 10.0 | 30.0 |

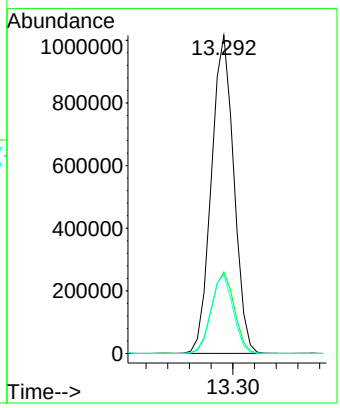





#86
p-Isopropyltoluene
Concen: 139.472 ug/l
RT: 13.292 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:119 Resp: 1456581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.9 | 38.6 |
| 91 | 24.5 | 12.1 | 36.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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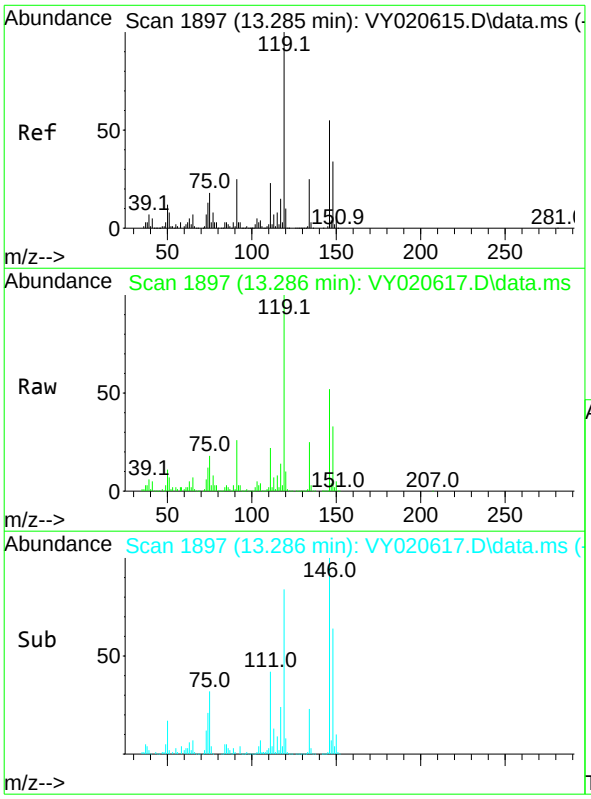
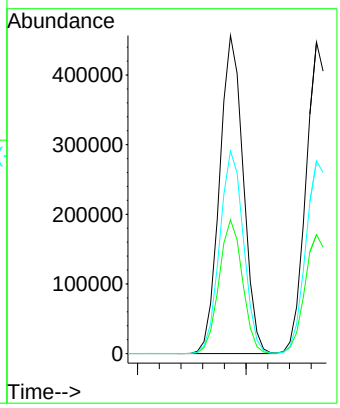
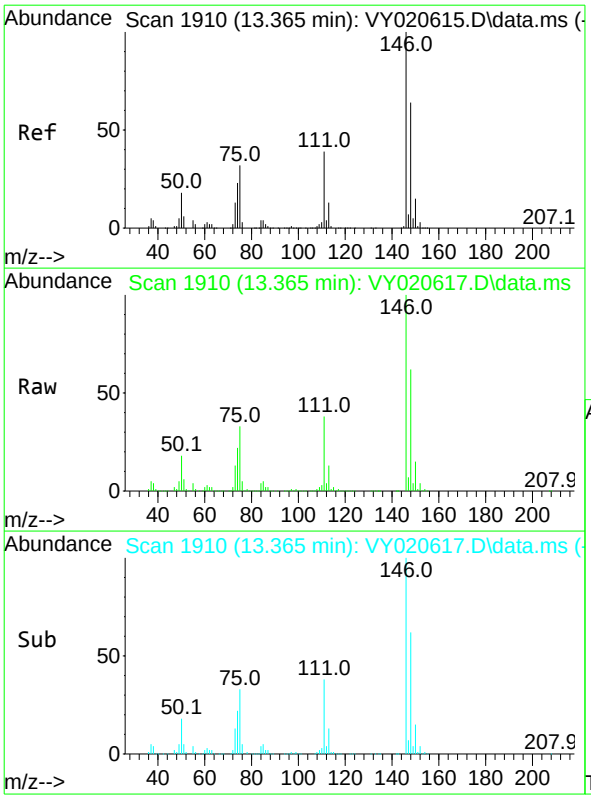



#87
1,3-Dichlorobenzene
Concen: 136.109 ug/l
RT: 13.286 min Scan# 1897
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:146 Resp: 693843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.4 | 20.6 | 61.8 |
| 148 | 63.9 | 31.4 | 94.0 |

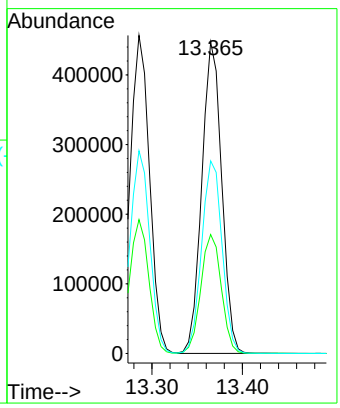





#88
1,4-Dichlorobenzene
Concen: 135.587 ug/l
RT: 13.365 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:146 Resp: 684559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.6 | 58.7 |
| 148 | 63.5 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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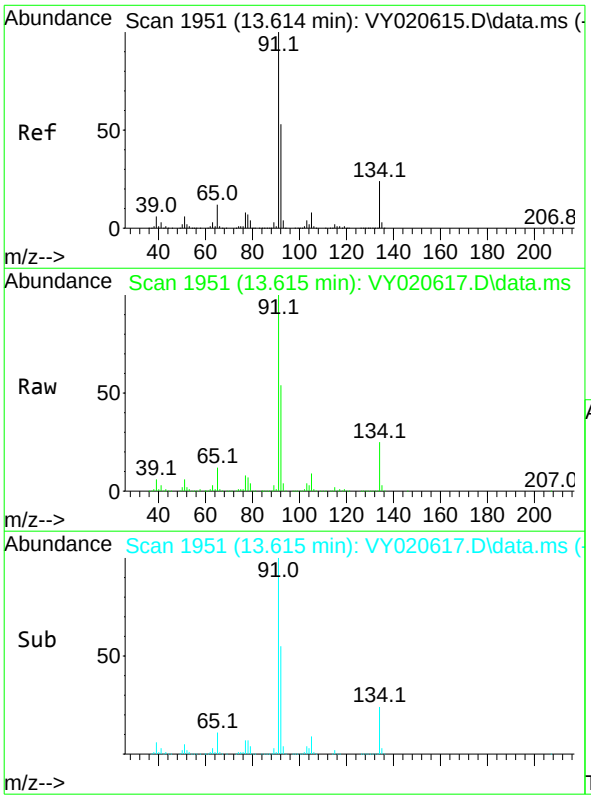
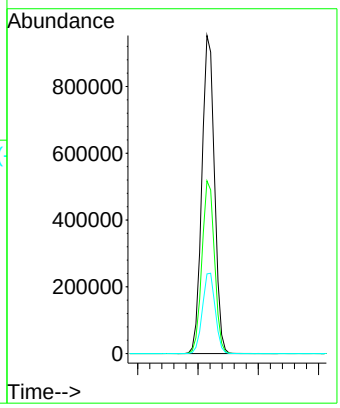
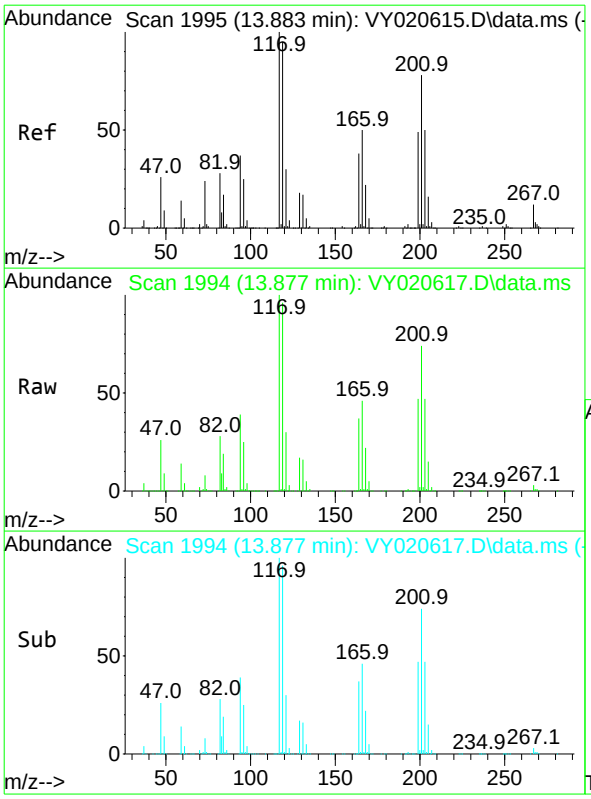



#89
n-Butylbenzene
Concen: 139.722 ug/l
RT: 13.615 min Scan# 1951
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 91 Resp: 1382912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.1 | 26.8 | 80.4 |
| 134 | 25.7 | 12.5 | 37.5 |

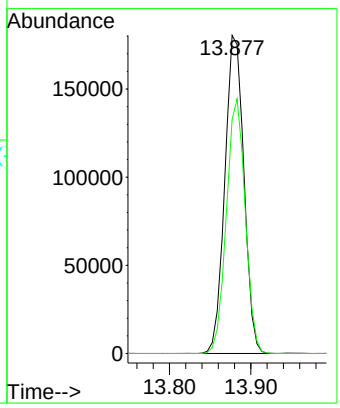





#90
Hexachloroethane
Concen: 141.843 ug/l
RT: 13.877 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:117 Resp: 293562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 79.1 | 39.1 | 117.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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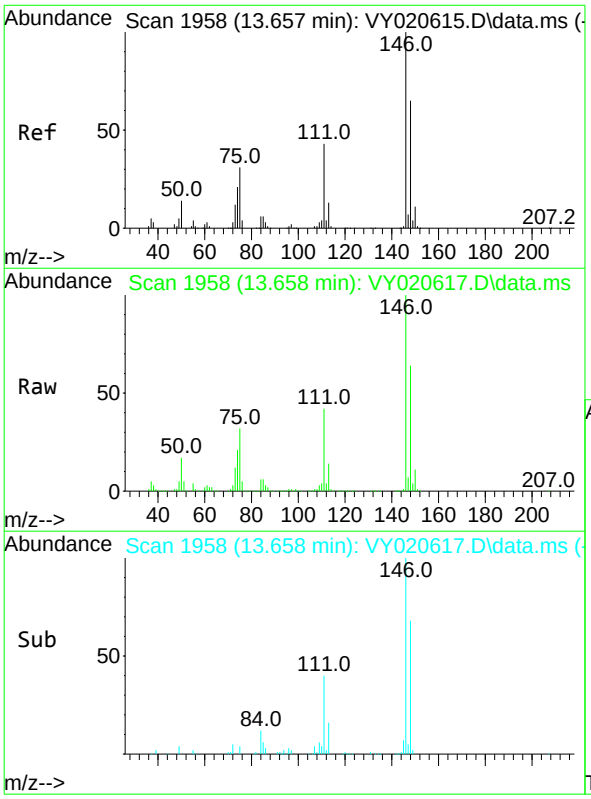
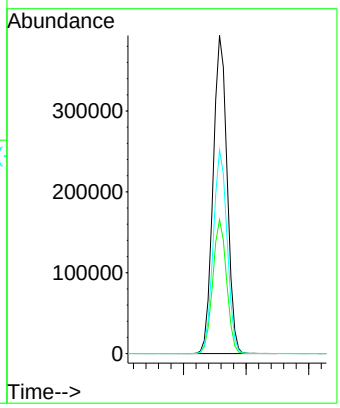
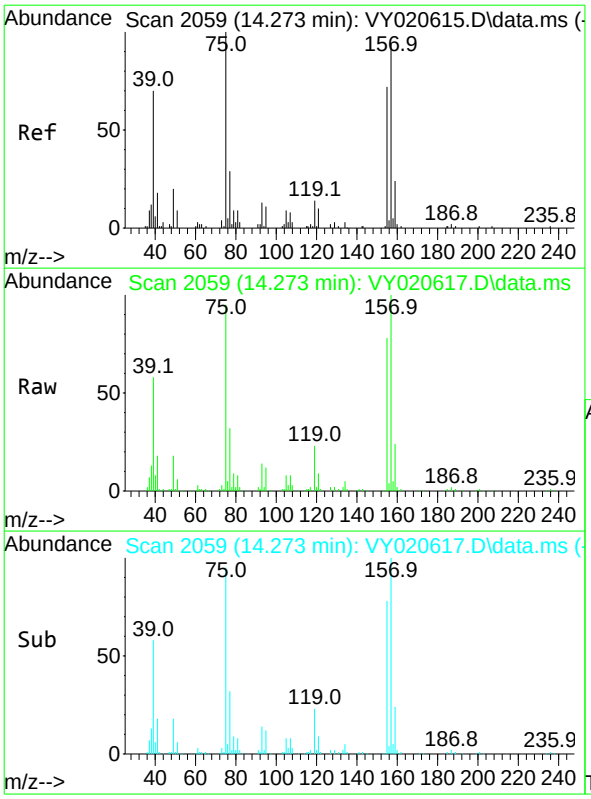



#91
1,2-Dichlorobenzene
Concen: 138.532 ug/l
RT: 13.658 min Scan# 1958
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:146 Resp: 611871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.5 | 21.3 | 63.7 |
| 148 | 63.4 | 32.0 | 96.0 |






#92
1,2-Dibromo-3-Chloropropane
Concen: 139.274 ug/l
RT: 14.273 min Scan# 20
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

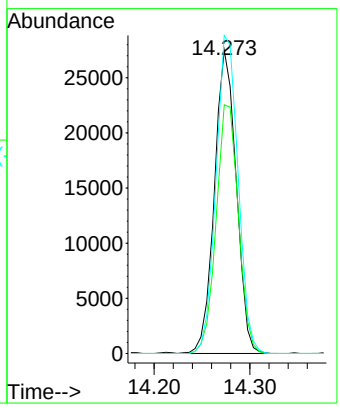
Tgt Ion: 75 Resp: 43513

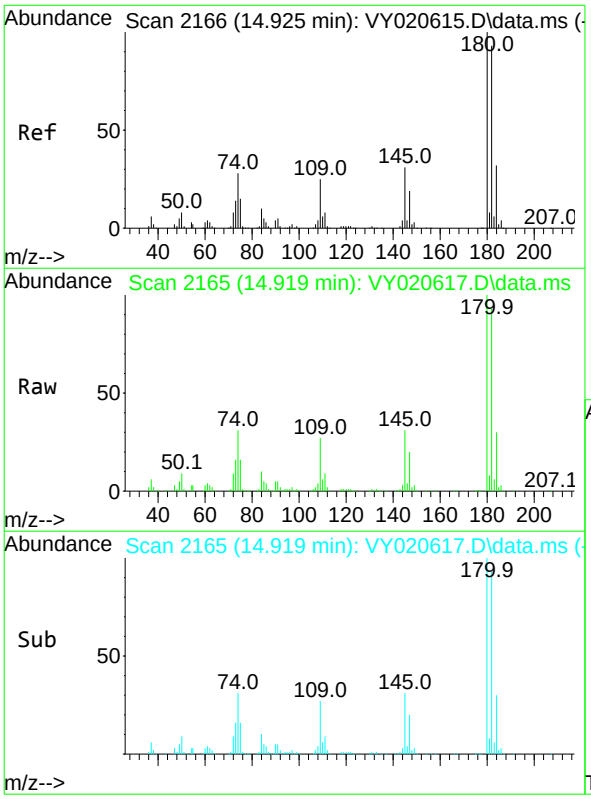
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.5 | 41.1 | 123.3 |
| 157 | 106.5 | 52.9 | 158.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

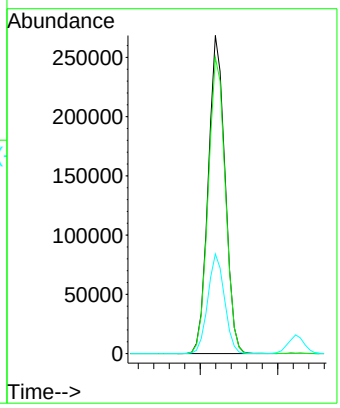


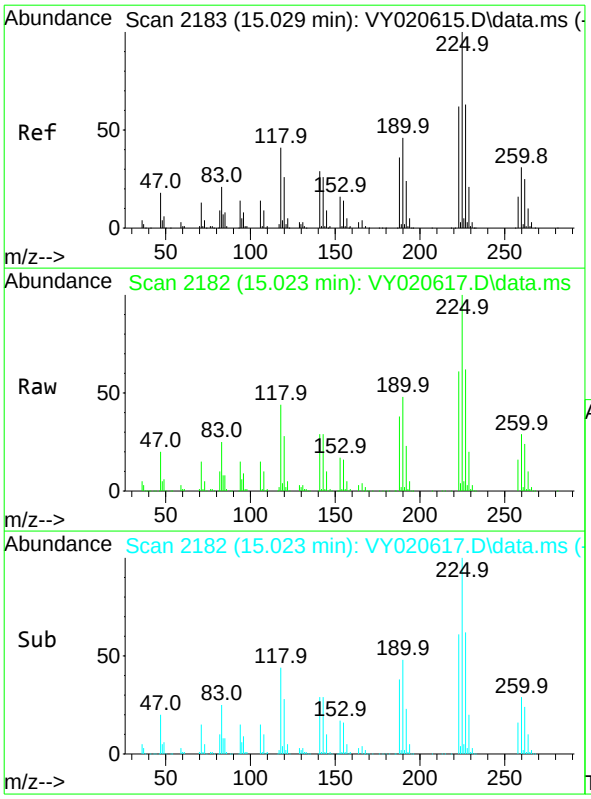




#93
1,2,4-Trichlorobenzene
Concen: 151.011 ug/l
RT: 14.919 min Scan# 2165
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:180 Resp: 403445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 47.9 | 143.6 |
| 145 | 31.1 | 15.6 | 46.7 |

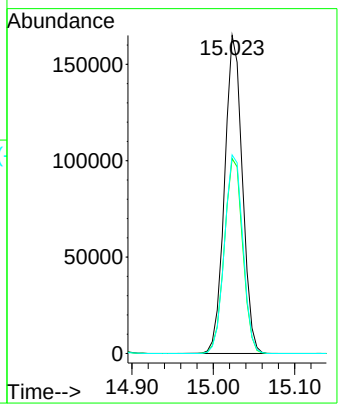





#94
Hexachlorobutadiene
Concen: 143.145 ug/l
RT: 15.023 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:225 Resp: 250003

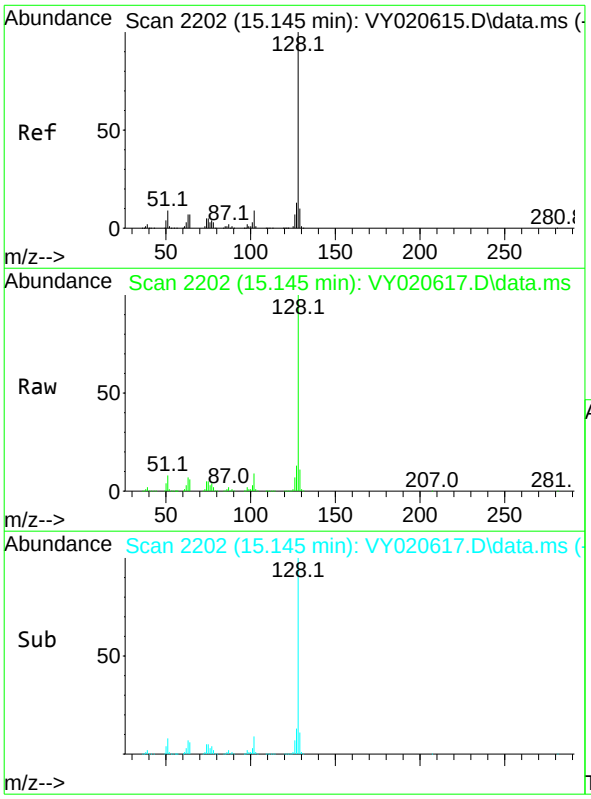
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.1 | 31.8 | 95.3 |
| 227 | 64.5 | 32.2 | 96.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

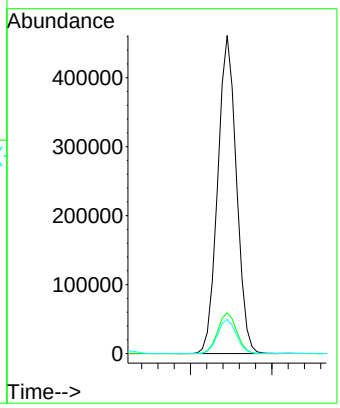
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

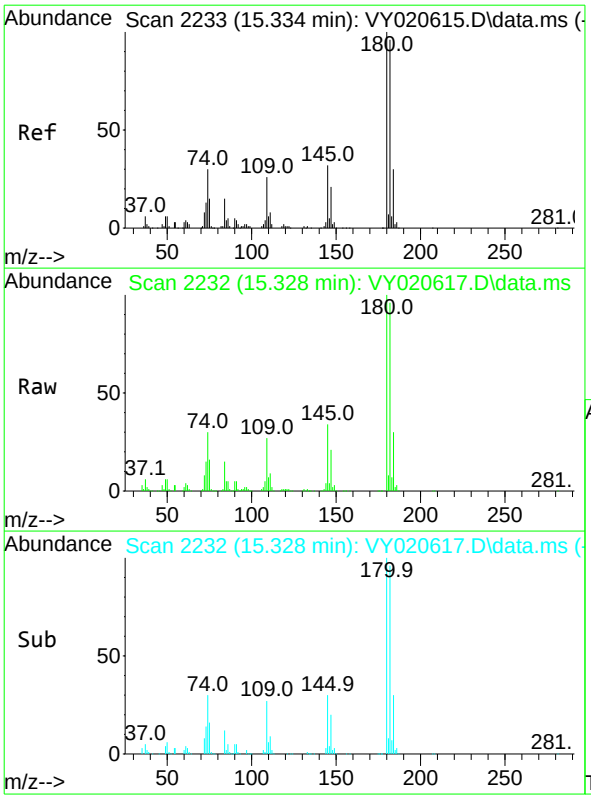



#95
Naphthalene
Concen: 160.836 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:128 Resp: 736677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.7 | 16.1 |
| 129 | 10.8 | 8.5 | 12.7 |

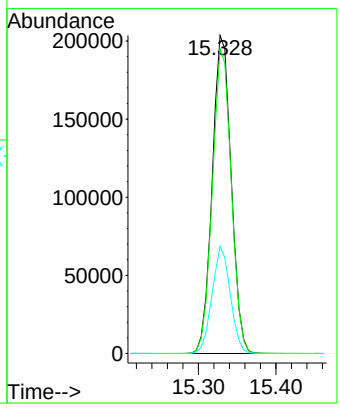





#96
1,2,3-Trichlorobenzene
Concen: 152.787 ug/l
RT: 15.328 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:180 Resp: 344880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.3 | 141.9 |
| 145 | 32.5 | 16.0 | 48.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 167036 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 257526 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 219786 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 120870 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 10628 | 5.810 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 11.620%# | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 10393 | 5.726 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 11.460%# | | | | |
| 50) Toluene-d8 | 10.109 | 98 | 37211 | 5.858 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 11.720%# | | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 15073 | 6.066 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 12.140%# | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 11112 | 5.326 | ug/l | | 100 |
| 3) Chloromethane | 2.074 | 50 | 9266 | 5.994 | ug/l | | 89 |
| 4) Vinyl Chloride | 2.208 | 62 | 8140 | 5.657 | ug/l | | 91 |
| 5) Bromomethane | 2.599 | 94 | 5462 | 5.906 | ug/l | | 84 |
| 6) Chloroethane | 2.739 | 64 | 5039 | 5.667 | ug/l | | 97 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 16587 | 5.509 | ug/l | | 89 |
| 8) Diethyl Ether | 3.464 | 74 | 5733 | 5.430 | ug/l | | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 11901 | 5.515 | ug/l | | 98 |
| 10) Methyl Iodide | 4.007 | 142 | 11197 | 4.660 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.848 | 59 | 7794 | 12.197 | ug/l | # | 86 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 11147 | 5.324 | ug/l | | 85 |
| 13) Acrolein | 3.659 | 56 | 2720 | 31.444 | ug/l | | 97 |
| 14) Allyl chloride | 4.385 | 41 | 19430 | 5.296 | ug/l | | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 12057 | 23.869 | ug/l | | 98 |
| 16) Acetone | 3.873 | 43 | 14032 | 33.023 | ug/l | | 94 |
| 17) Carbon Disulfide | 4.110 | 76 | 35780 | 5.250 | ug/l | | 97 |
| 18) Methyl Acetate | 4.391 | 43 | 6311 | 5.070 | ug/l | | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 25765 | 4.768 | ug/l | | 93 |
| 20) Methylene Chloride | 4.616 | 84 | 12792 | 5.624 | ug/l | | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 11813 | 5.030 | ug/l | | 93 |
| 22) Diisopropyl ether | 6.019 | 45 | 37011 | 4.970 | ug/l | # | 88 |
| 23) Vinyl Acetate | 5.964 | 43 | 98112 | 23.261 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 22261 | 5.102 | ug/l | | 96 |
| 25) 2-Butanone | 6.897 | 43 | 19017 | 27.972 | ug/l | | 94 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 24236 | 5.876 | ug/l | | 93 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 13806 | 5.109 | ug/l | | 93 |
| 28) Bromochloromethane | 7.244 | 49 | 7129 | 4.844 | ug/l | | 96 |
| 29) Tetrahydrofuran | 7.268 | 42 | 9729 | 22.669 | ug/l | | 97 |
| 30) Chloroform | 7.421 | 83 | 34563 | 2.901 | ug/l | | 98 |
| 31) Cyclohexane | 7.707 | 56 | 24108 | 5.779 | ug/l | # | 85 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 20368 | 5.082 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 17712 | 5.352 | ug/l | | 98 |
| 37) Ethyl Acetate | 6.988 | 43 | 7613 | 4.890 | ug/l | | 96 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 18792 | 5.132 | ug/l | | 96 |
| 39) Methylcyclohexane | 9.110 | 83 | 22745 | 5.273 | ug/l | | 94 |
| 40) Benzene | 8.079 | 78 | 49636 | 5.117 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 3782m | 4.595 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.159 | 62 | 12917 | 5.020 | ug/l | | 95 |
| 43) Isopropyl Acetate | 8.195 | 43 | 13361 | 4.533 | ug/l | # | 86 |
| 44) Trichloroethene | 8.866 | 130 | 12384 | 5.195 | ug/l | | 88 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 11378 | 5.019 | ug/l | | 96 |
| 46) Dibromomethane | 9.231 | 93 | 5965 | 4.978 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 16115 | 4.979 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 6545 | 4.671 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.225 | 88 | 1268 | 92.278 | ug/l | # | 82 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 38280 | 24.607 | ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 30294 | 5.025 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 13747 | 4.558 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 17025 | 4.764 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 7935 | 5.009 | ug/l | | 93 |
| 56) Ethyl methacrylate | 10.439 | 69 | 10000 | 4.351 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 13754 | 4.870 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 23872 | 24.686 | ug/l | | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 23164 | 23.192 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.914 | 129 | 10207 | 4.818 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 7143 | 4.847 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 11707 | 5.663 | ug/l | | 96 |
| 65) Chlorobenzene | 11.445 | 112 | 31674 | 5.154 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 10526 | 5.009 | ug/l | | 94 |
| 67) Ethyl Benzene | 11.518 | 91 | 57861 | 5.103 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 43257 | 10.262 | ug/l | | 100 |
| 69) o-Xylene | 11.957 | 106 | 19639 | 4.993 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 32495 | 4.945 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 5762 | 4.877 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 53196 | 5.043 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 10480 | 4.245 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 8331 | 4.866 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 6432m | 5.167 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 11774 | 5.124 | ug/l | | 98 |
| 78) n-propylbenzene | 12.597 | 91 | 64140 | 5.047 | ug/l | | 97 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 36508 | 5.106 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 43711 | 5.107 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 2558 | 4.276 | ug/l | | 90 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 39447 | 5.318 | ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 38538 | 4.972 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 41754 | 4.974 | ug/l | | 97 |
| 85) sec-Butylbenzene | 13.176 | 105 | 58088 | 5.154 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 46384 | 4.992 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 23757 | 5.238 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 24276 | 5.404 | ug/l | | 94 |
| 89) n-Butylbenzene | 13.621 | 91 | 43817 | 4.976 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 9361 | 5.084 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 20478 | 5.211 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 1404 | 5.051 | ug/l | | 89 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 11648 | 4.900 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 8059 | 5.186 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 17365 | 4.261 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 9821 | 4.890 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

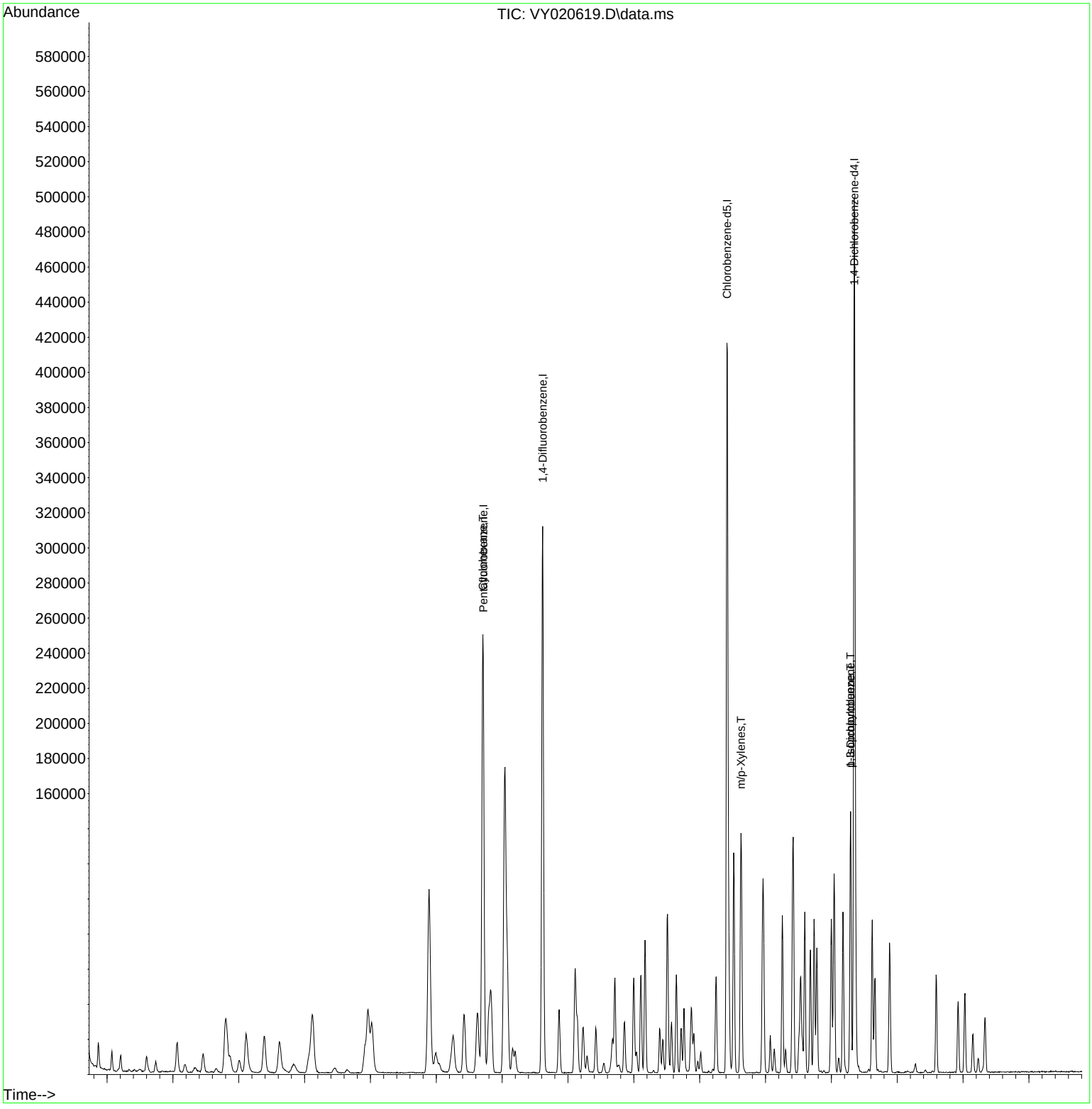
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

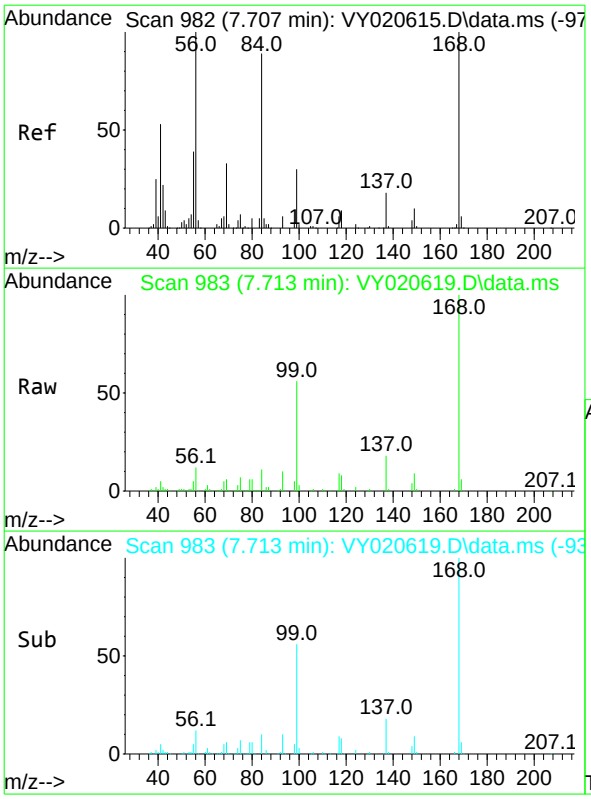
Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

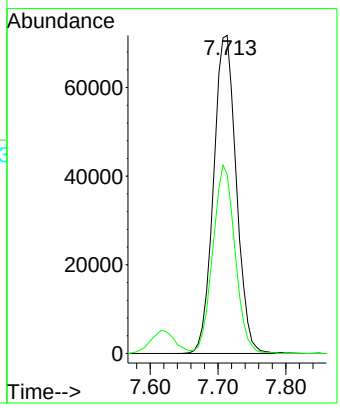





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:168 Resp: 167036

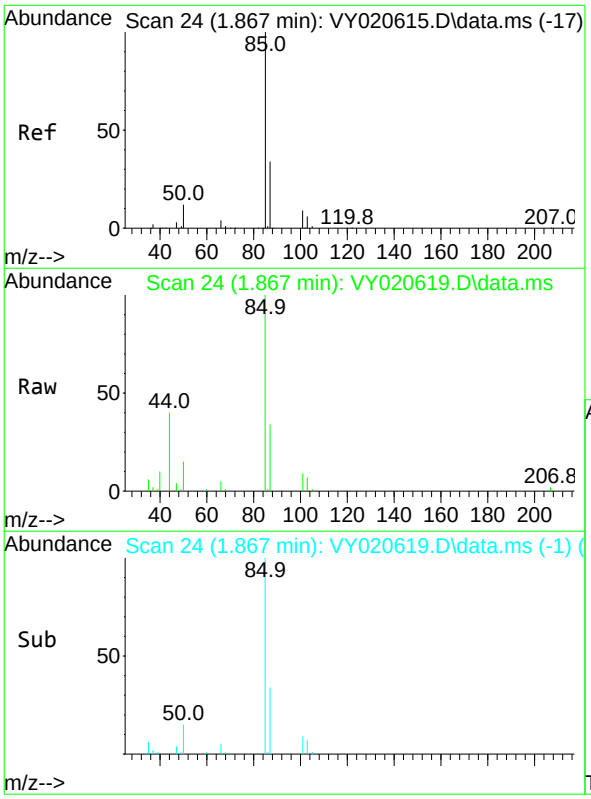
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.4 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

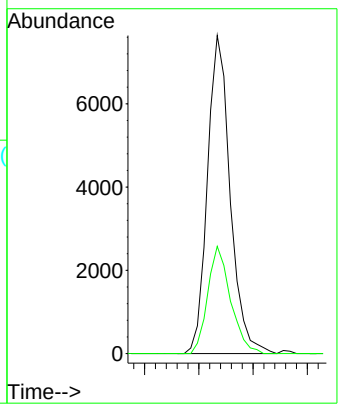
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

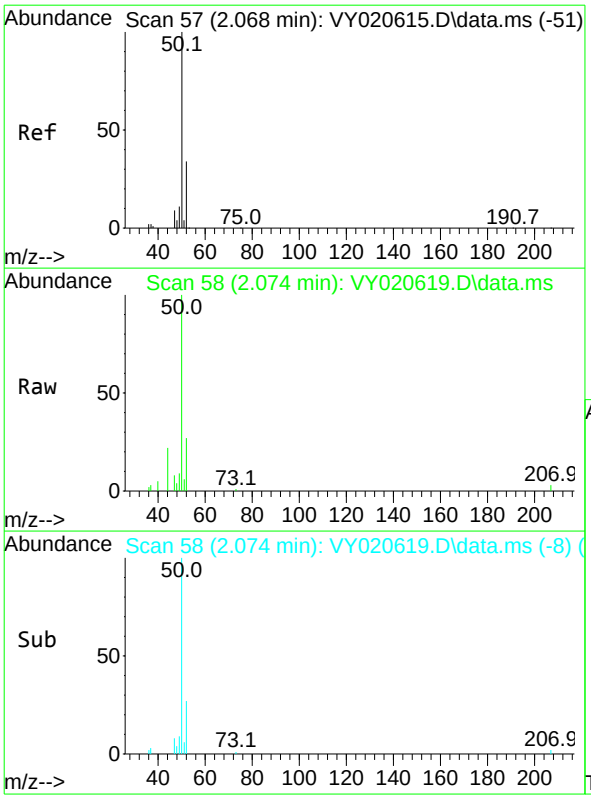



#2
Dichlorodifluoromethane
Concen: 5.326 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 85 Resp: 11112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.7 | 16.8 | 50.3 |

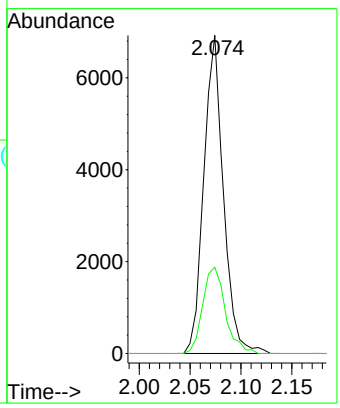





#3
Chloromethane
Concen: 5.994 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 50 Resp: 9266

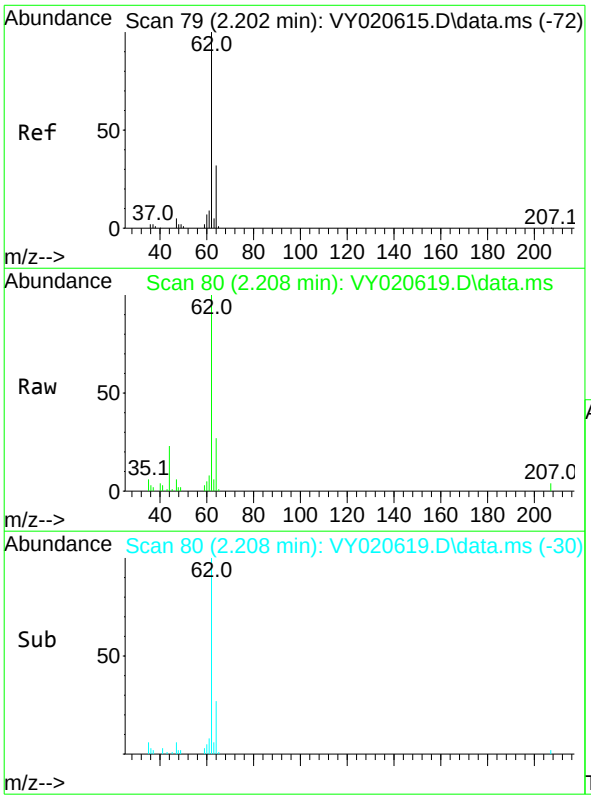
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 27.1 | 26.8 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

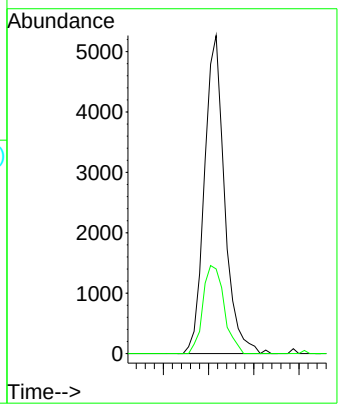
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

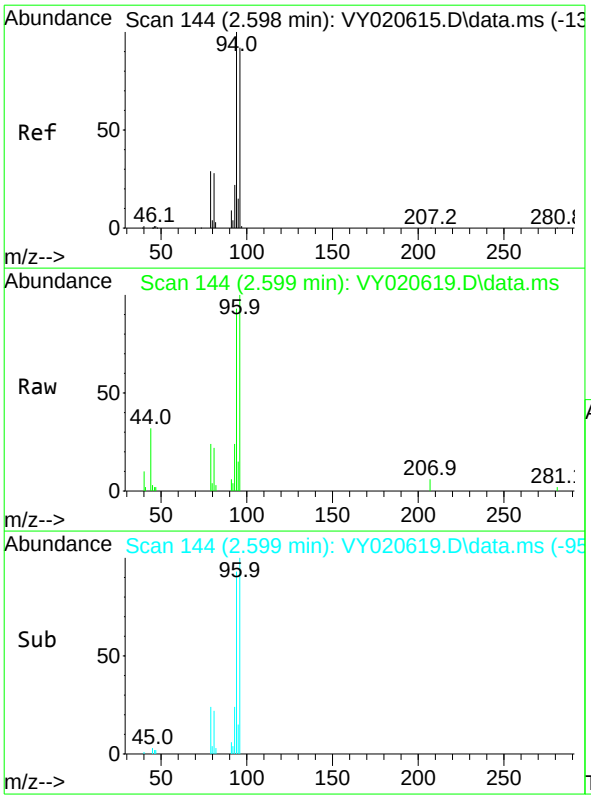



#4
Vinyl Chloride
Concen: 5.657 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 62 Resp: 8140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 26.6 | 25.3 | 37.9 |

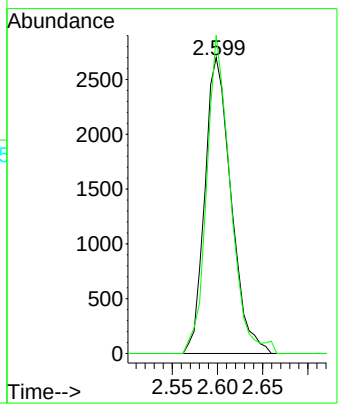





#5
Bromomethane
Concen: 5.906 ug/l
RT: 2.599 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 94 Resp: 5462

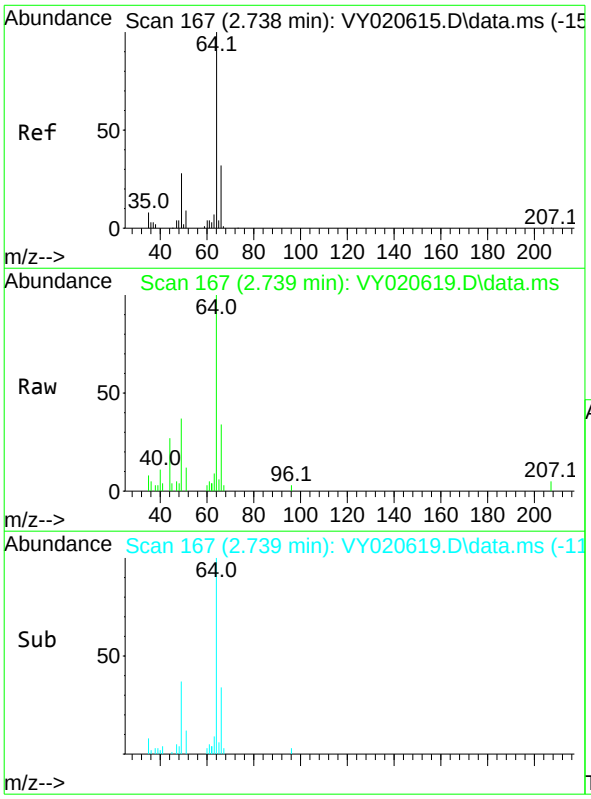
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 107.5 | 73.8 | 110.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

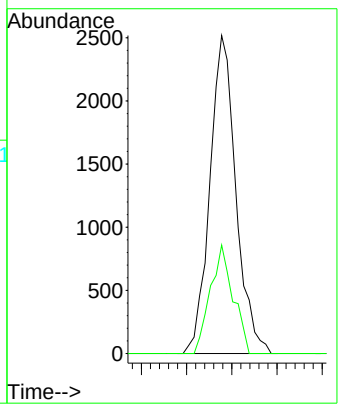
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

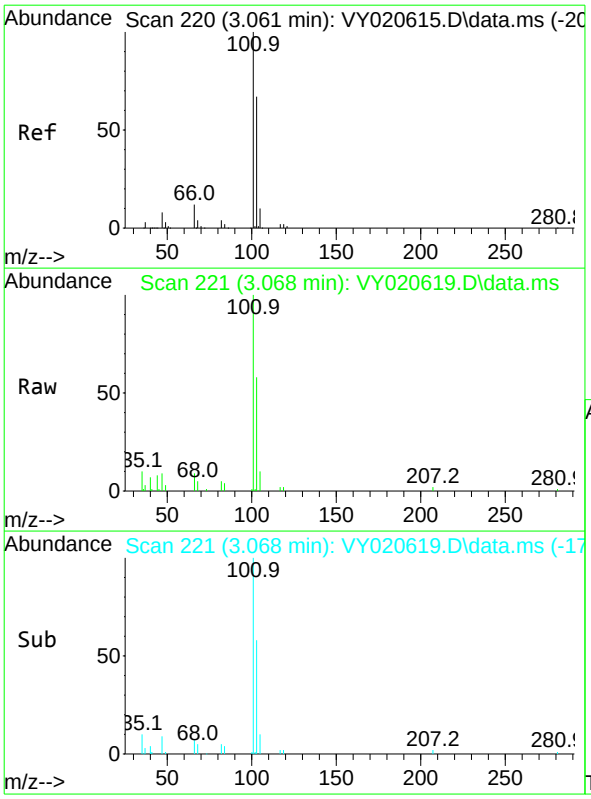



#6
Chloroethane
Concen: 5.667 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 64 Resp: 5039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.1 | 25.8 | 38.6 |

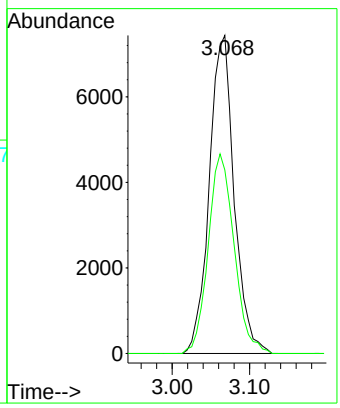





#7
Trichlorofluoromethane
Concen: 5.509 ug/l
RT: 3.068 min Scan# 22
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:101 Resp: 16587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 57.7 | 53.4 | 80.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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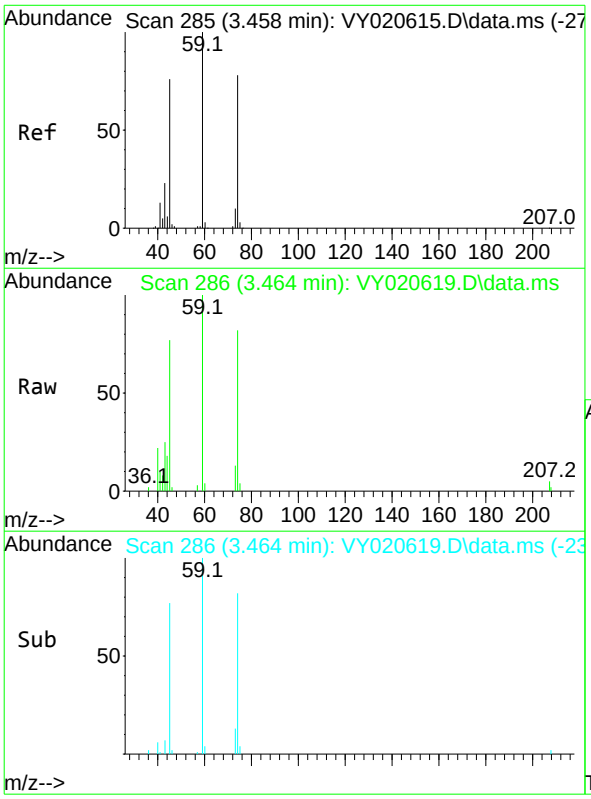
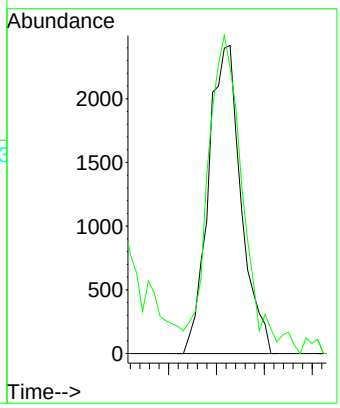
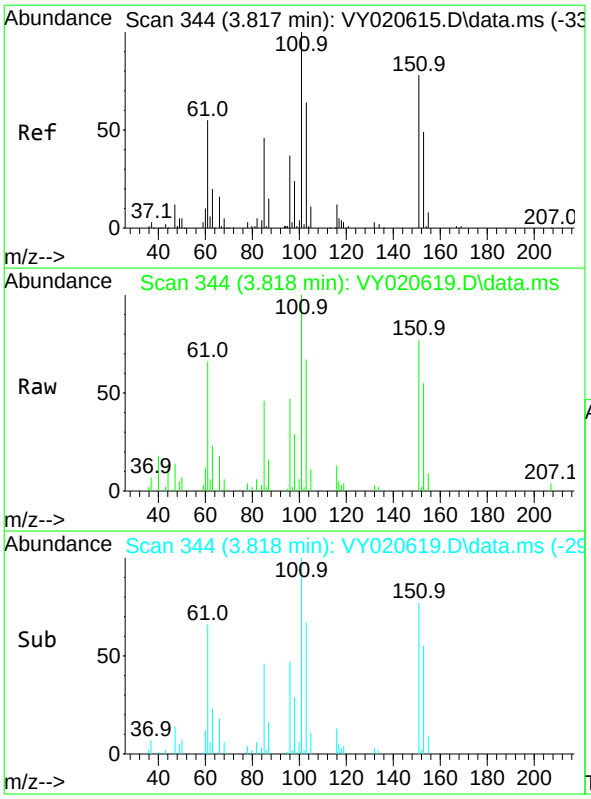



#8
Diethyl Ether
Concen: 5.430 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 74 Resp: 5733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 100.2 | 49.0 | 147.2 |

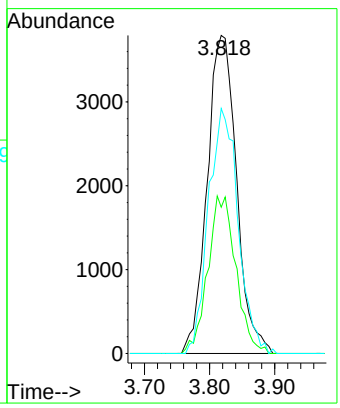





#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.515 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:101 Resp: 11901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.3 | 36.6 | 54.8 |
| 151 | 77.7 | 61.5 | 92.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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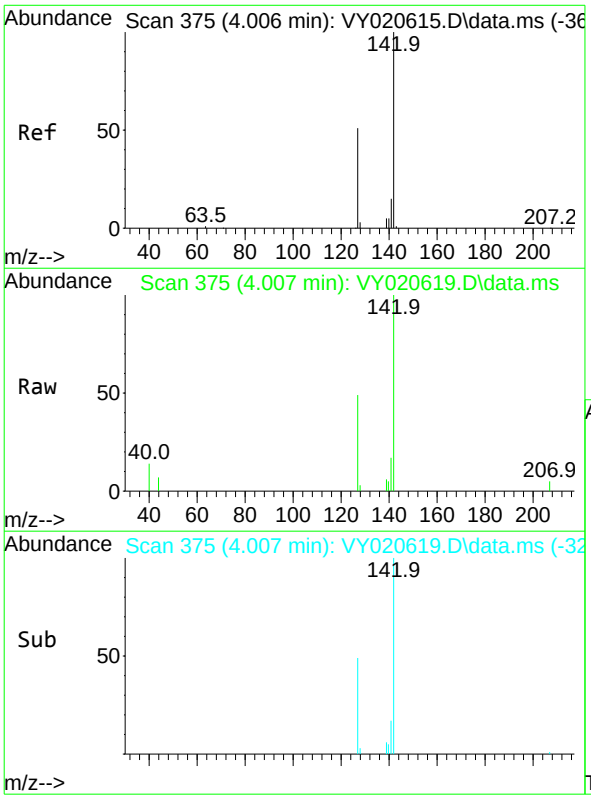
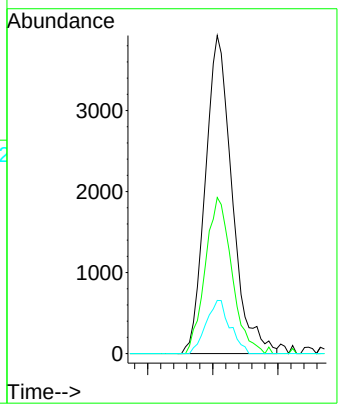
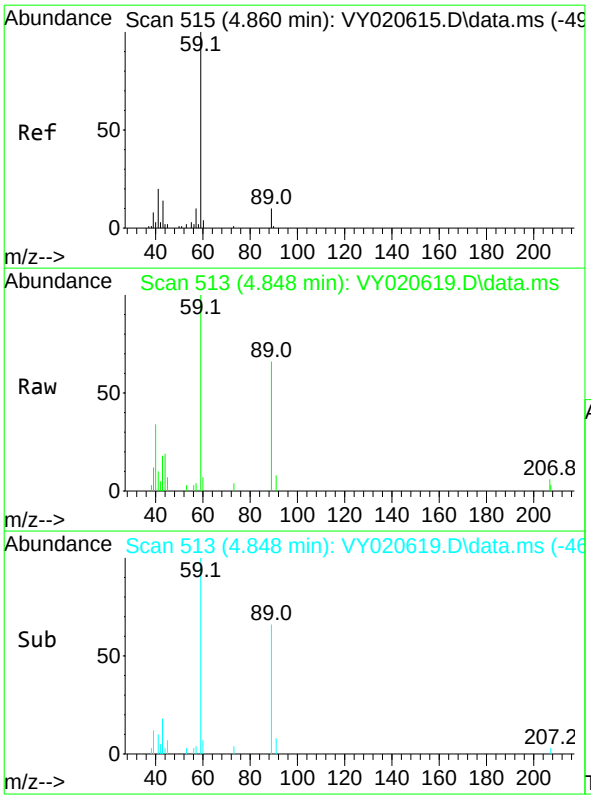



#10
Methyl Iodide
Concen: 4.660 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:142 Resp: 11197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 48.8 | 40.6 | 61.0 |
| 141 | 14.9 | 11.7 | 17.5 |

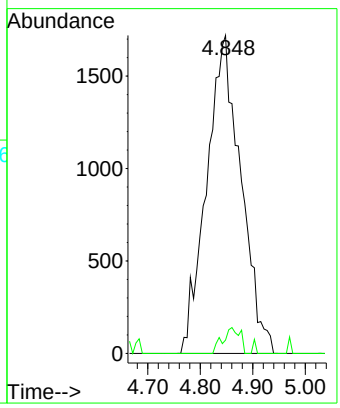





#11
Tert butyl alcohol
Concen: 12.197 ug/l
RT: 4.848 min Scan# 51
Delta R.T. -0.012 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 59 Resp: 7794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 4.1 | 7.4 | 11.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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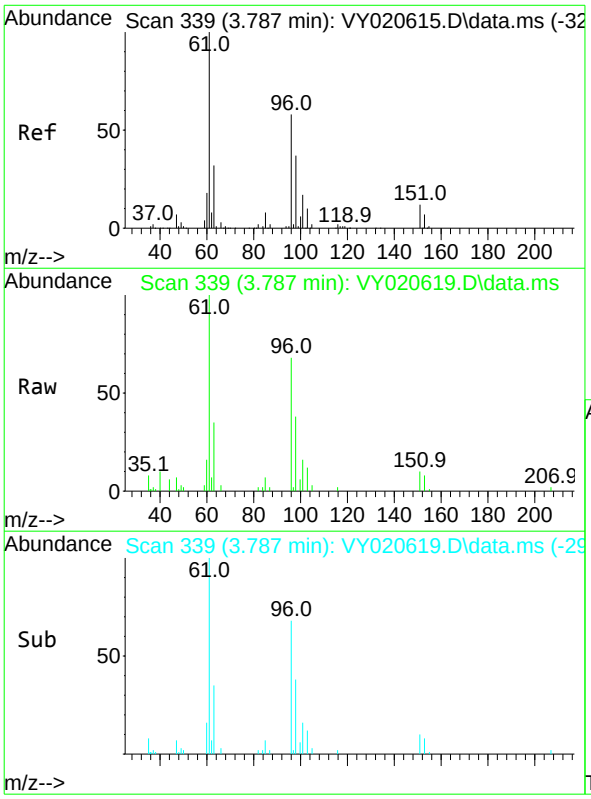
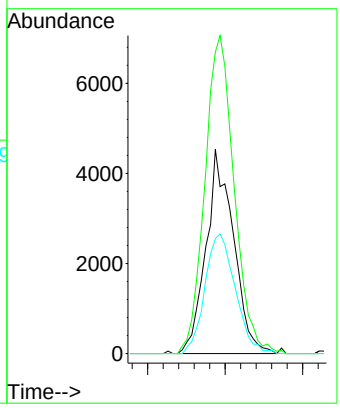
Supervised By :Semsettin Yesilyurt 12/18/2024

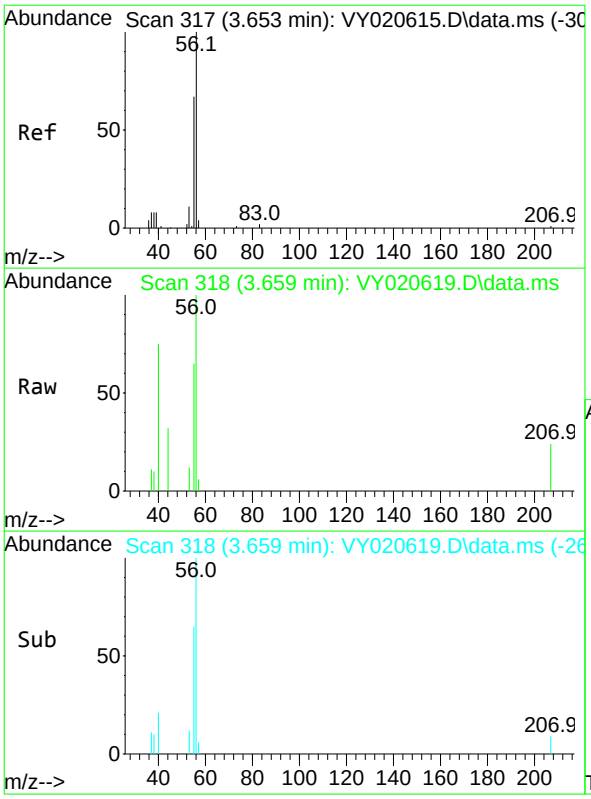



#12
1,1-Dichloroethene
Concen: 5.324 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 96 Resp: 11147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.8 | 136.9 | 205.3 |
| 98 | 56.2 | 50.2 | 75.4 |

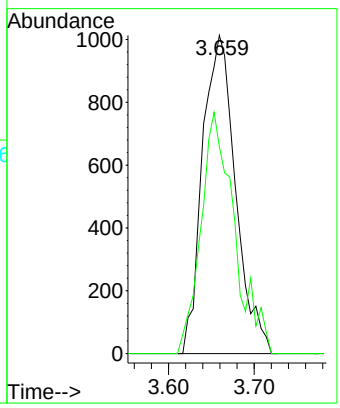





#13
Acrolein
Concen: 31.444 ug/l
RT: 3.659 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 56 Resp: 2720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.5 | 57.5 | 86.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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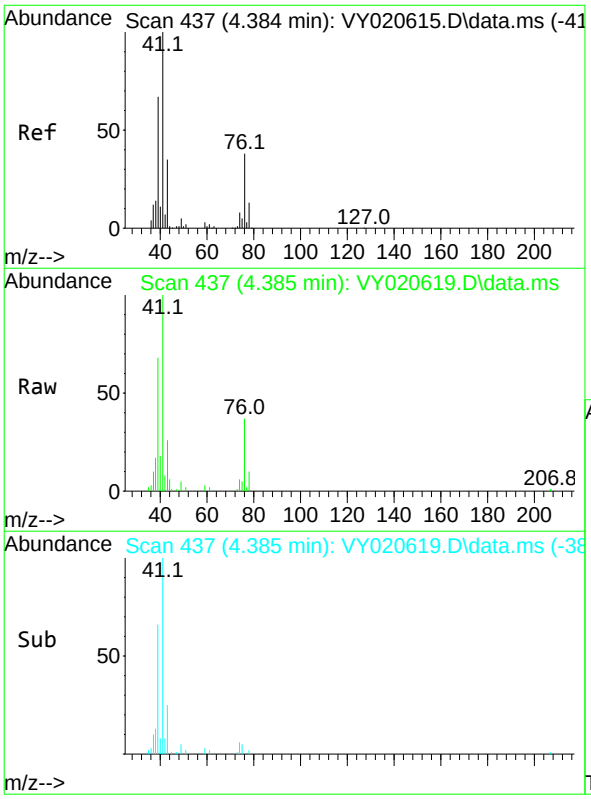
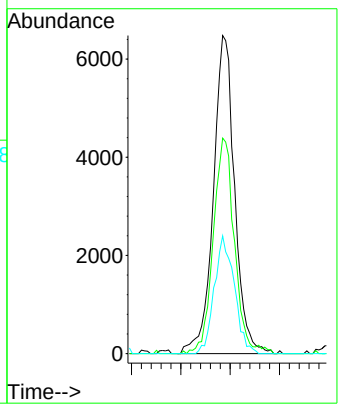
Supervised By :Semsettin Yesilyurt 12/18/2024

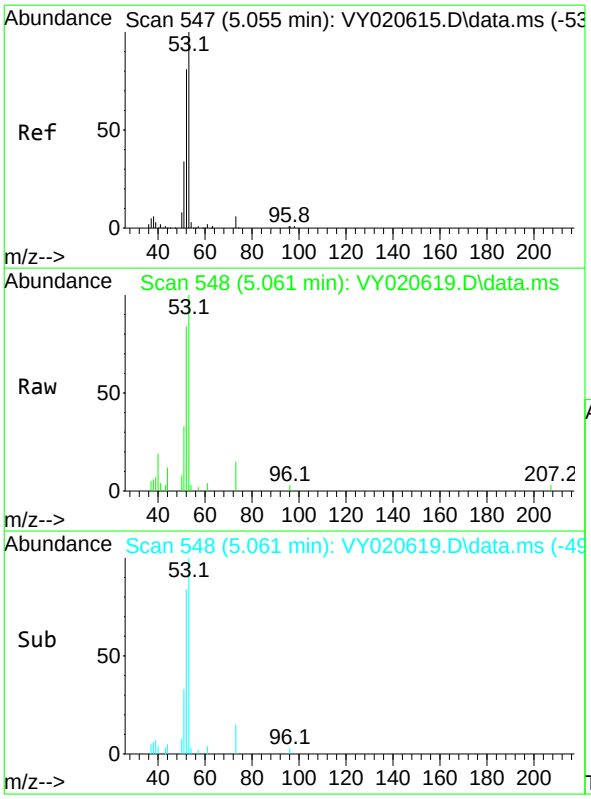



#14
Allyl chloride
Concen: 5.296 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 41 Resp: 19430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.7 | 53.0 | 79.4 |
| 76 | 34.7 | 29.5 | 44.3 |

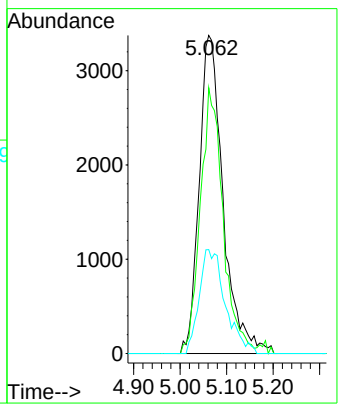





#15
Acrylonitrile
Concen: 23.869 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 53 Resp: 12057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.3 | 64.5 | 96.7 |
| 51 | 35.7 | 29.4 | 44.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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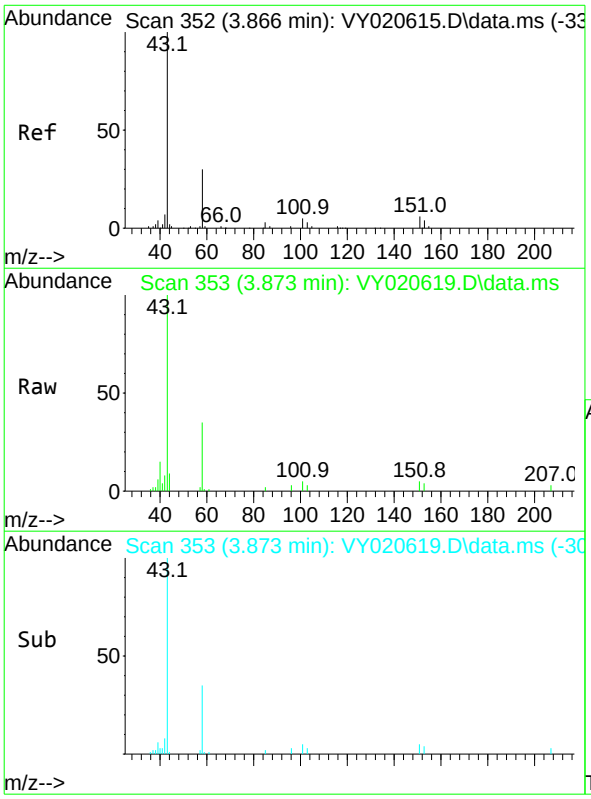
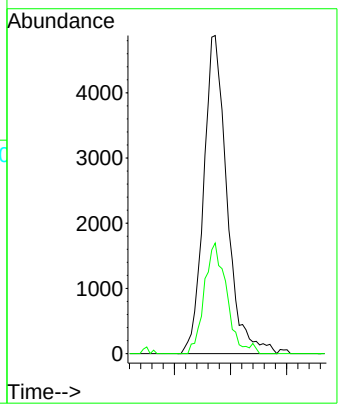
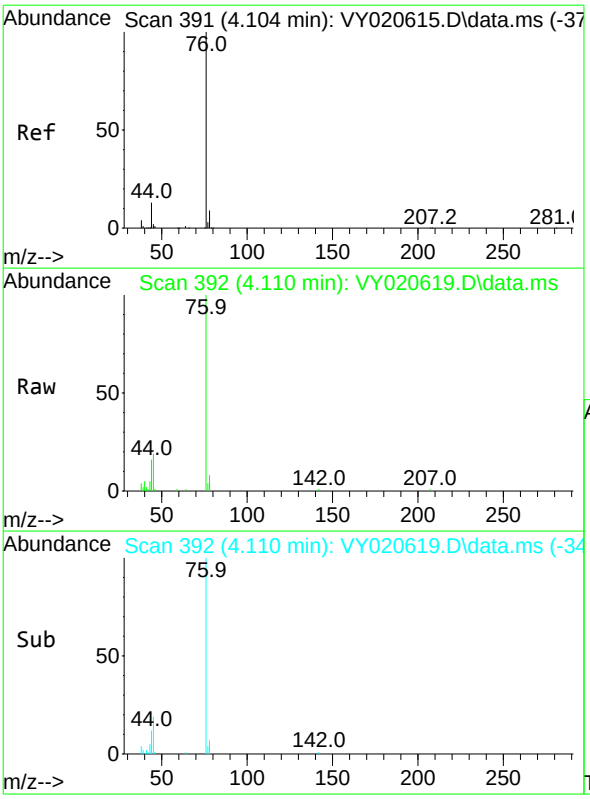



#16
Acetone
Concen: 33.023 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.007 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 14032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.8 | 25.0 | 37.6 |

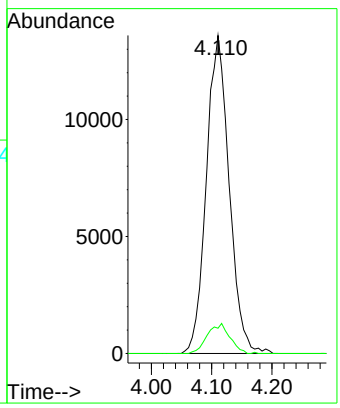





#17
Carbon Disulfide
Concen: 5.250 ug/l
RT: 4.110 min Scan# 39
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 76 Resp: 35780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 7.9 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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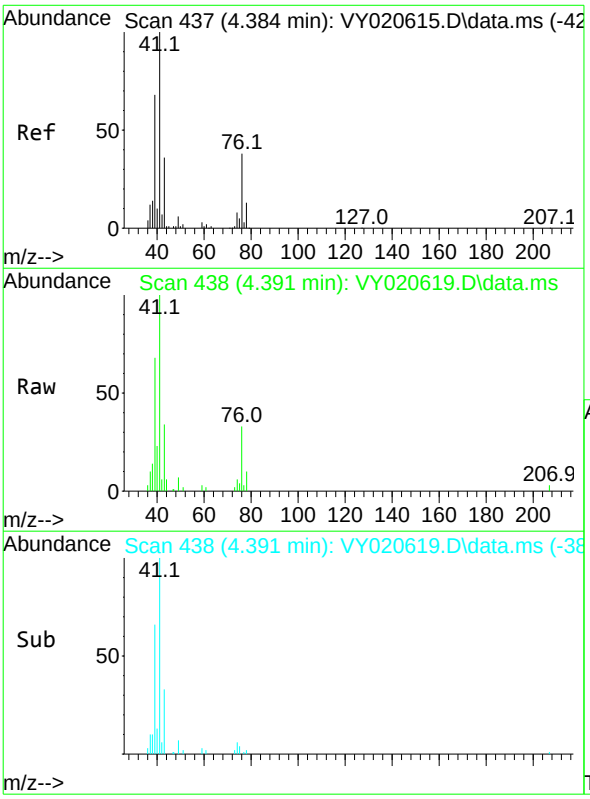
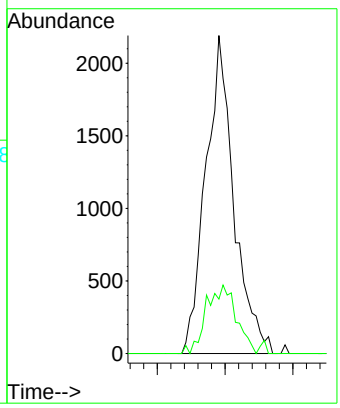
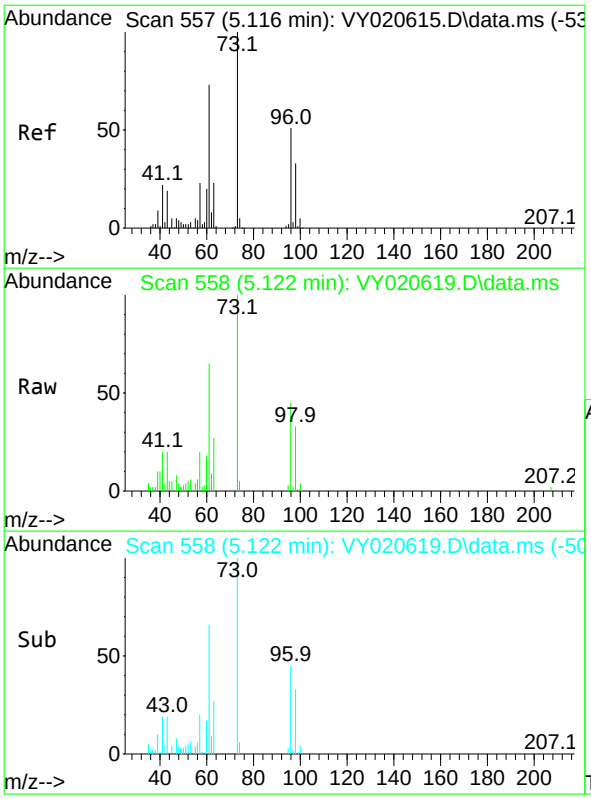



#18
Methyl Acetate
Concen: 5.070 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 6311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.8 | 19.2 | 28.8 |

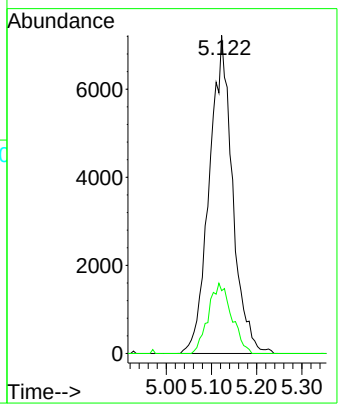





#19
Methyl tert-butyl Ether
Concen: 4.768 ug/l
RT: 5.122 min Scan# 55
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 73 Resp: 25765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.7 | 18.5 | 27.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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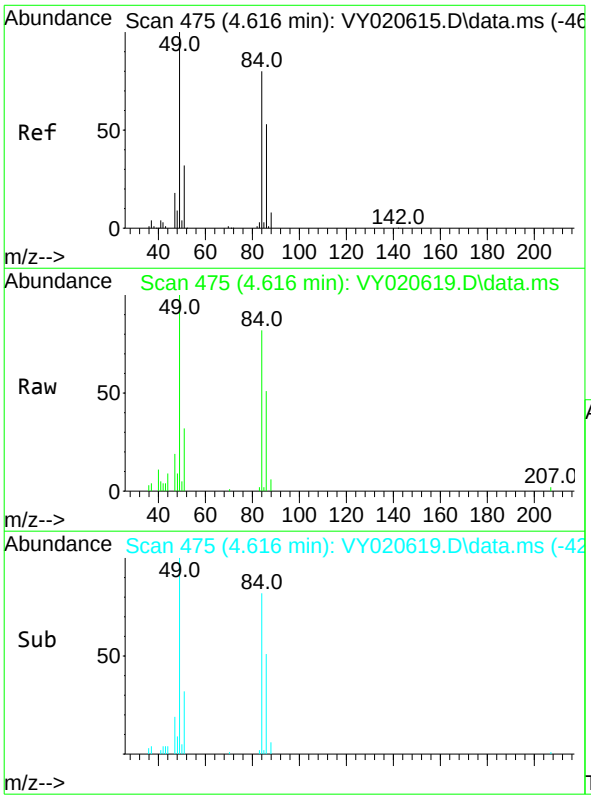
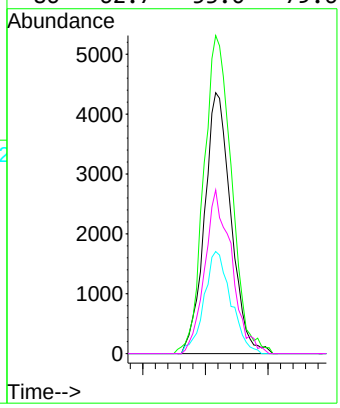
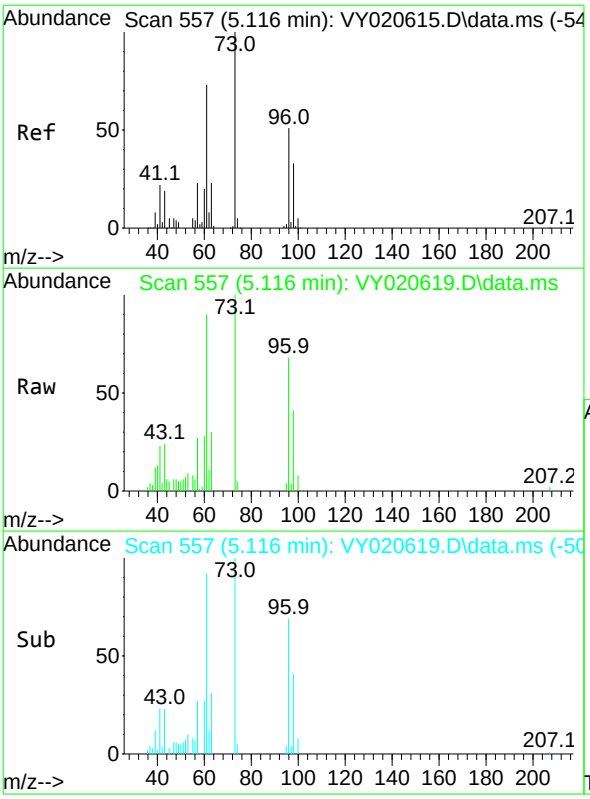



#20
Methylene Chloride
Concen: 5.624 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 84 Resp: 12792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 121.9 | 100.7 | 151.1 |
| 51 | 39.1 | 32.2 | 48.2 |
| 86 | 62.7 | 53.0 | 79.6 |

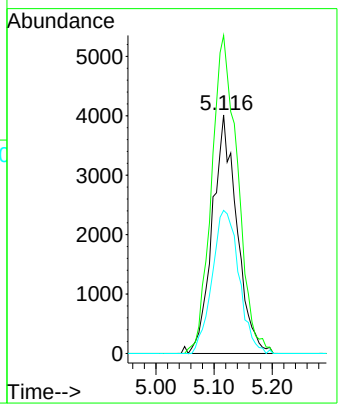





#21
trans-1,2-Dichloroethene
Concen: 5.030 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 96 Resp: 11813

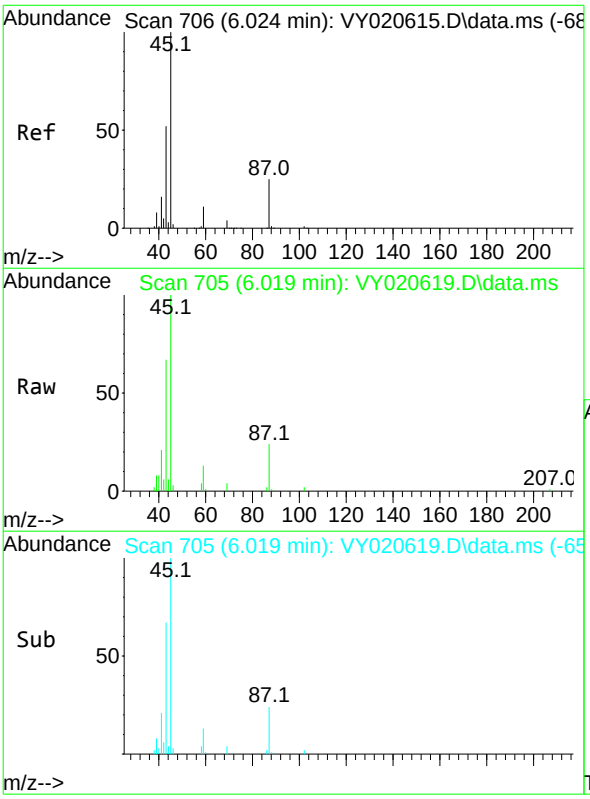
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.4 | 113.7 | 170.5 |
| 98 | 60.0 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

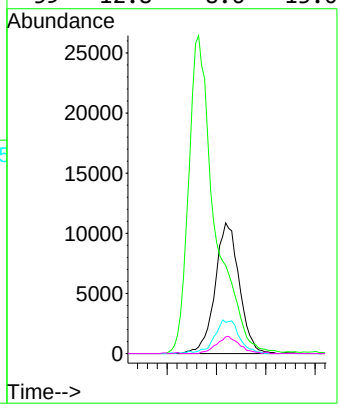
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

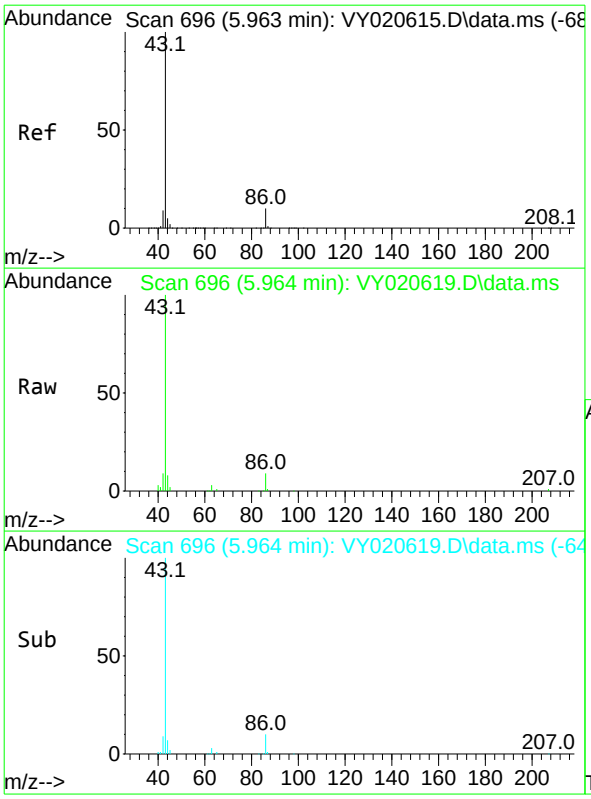



#22
Diisopropyl ether
Concen: 4.970 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 45 Resp: 37011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.6 | 42.6 | 64.0# |
| 87 | 24.0 | 20.6 | 31.0 |
| 59 | 12.8 | 8.6 | 13.0 |

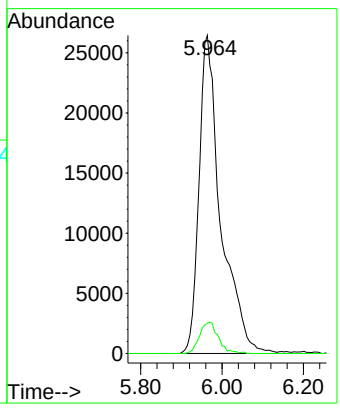





#23
Vinyl Acetate
Concen: 23.261 ug/l
RT: 5.964 min Scan# 69
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 98112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.5 | 8.1 | 12.1 |




**Instrument :**
MSVOA_Y
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VSTDICC005

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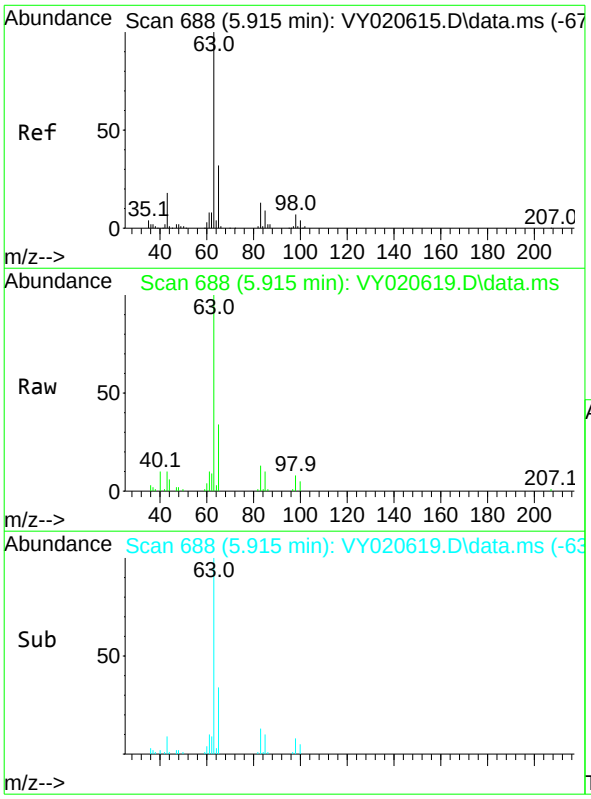
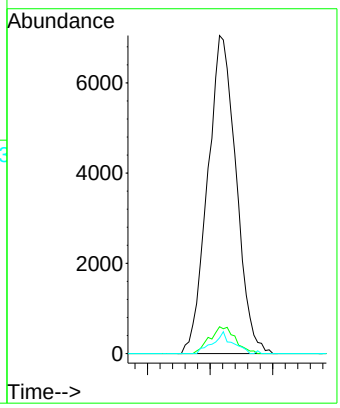
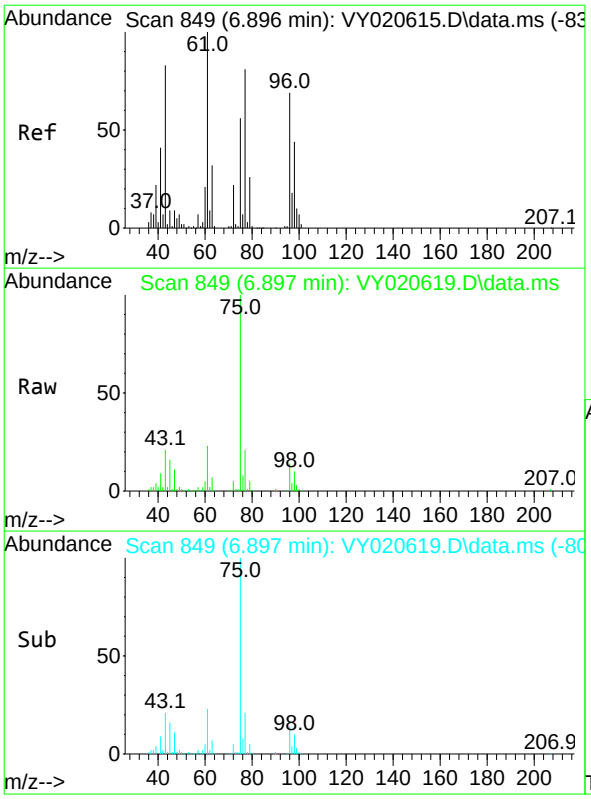



#24
1,1-Dichloroethane
Concen: 5.102 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 63 Resp: 22261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.4 | 3.4 | 10.1 |
| 100 | 4.9 | 2.1 | 6.5 |

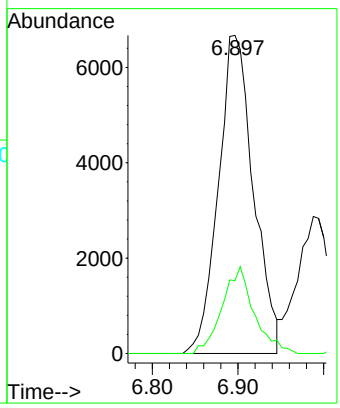





#25
2-Butanone
Concen: 27.972 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 19017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.9 | 20.6 | 31.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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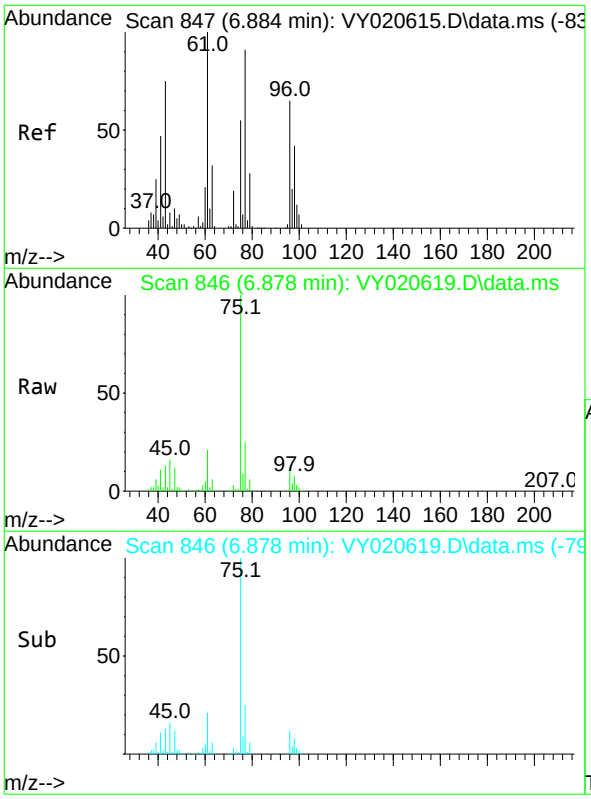
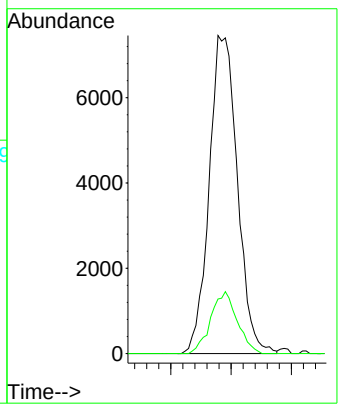
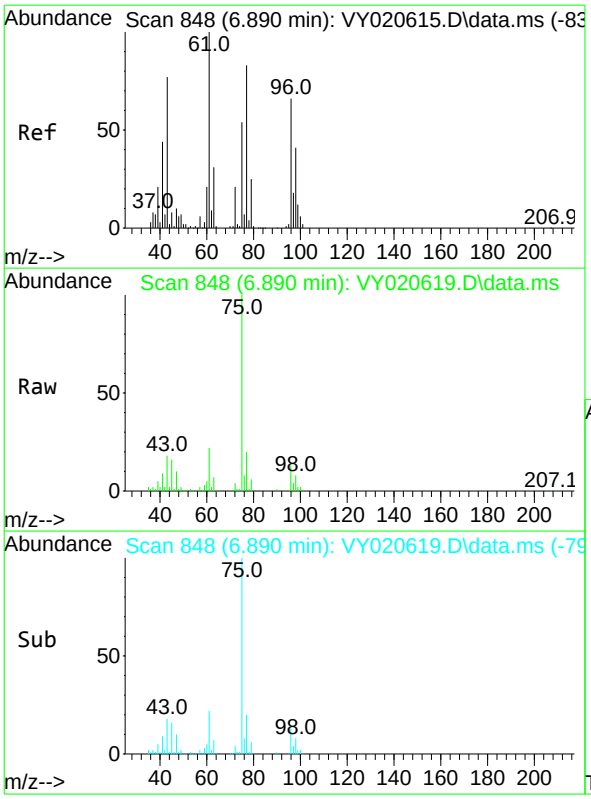



#26
2,2-Dichloropropane
Concen: 5.876 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 77 Resp: 24236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 18.3 | 10.9 | 32.6 |

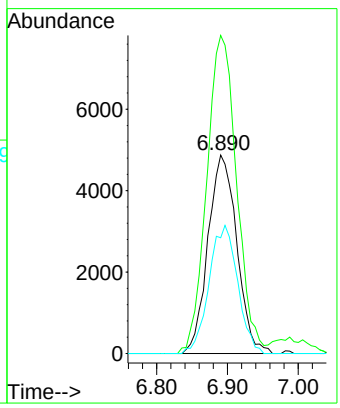





#27
cis-1,2-Dichloroethene
Concen: 5.109 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 96 Resp: 13806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 165.8 | 0.0 | 306.2 |
| 98 | 64.0 | 0.0 | 127.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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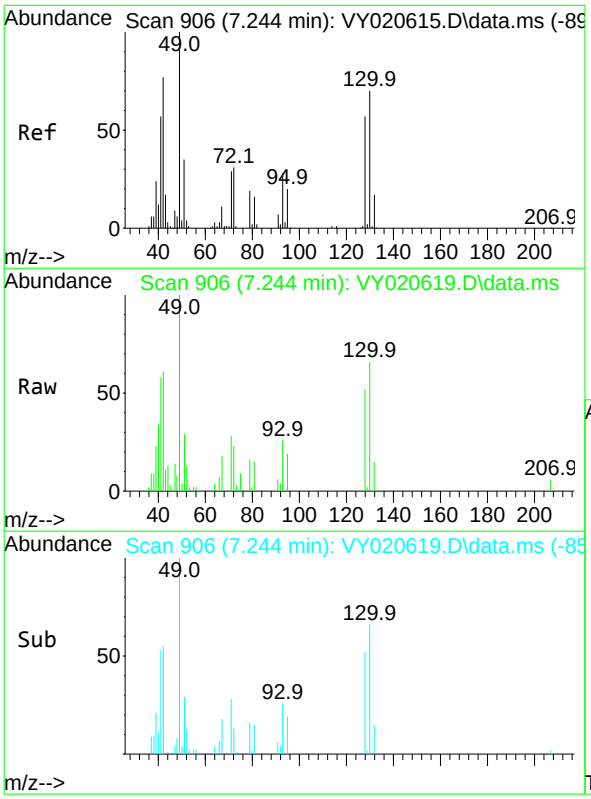
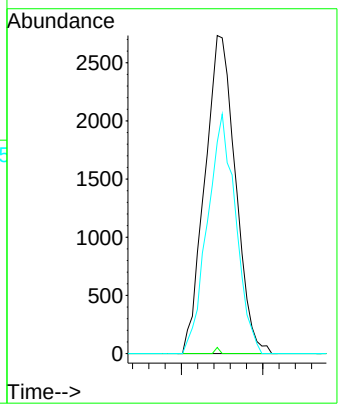
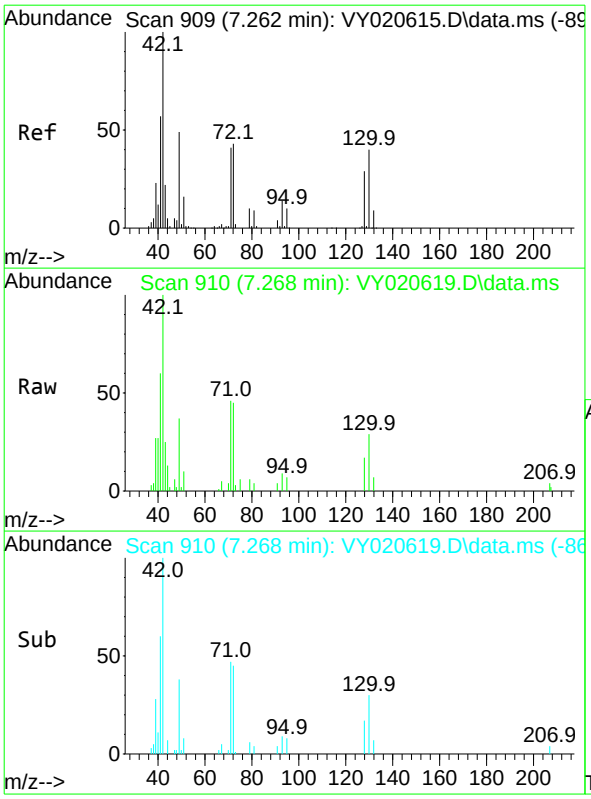



#28
Bromochloromethane
Concen: 4.844 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 49 Resp: 7129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.3 | 0.0 | 3.8 |
| 130 | 69.5 | 58.3 | 87.5 |

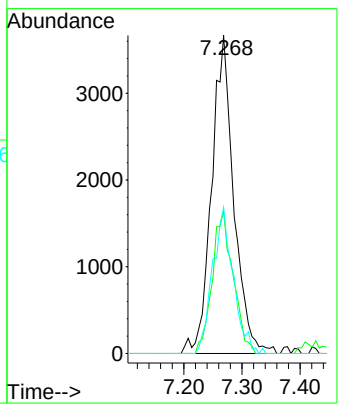





#29
Tetrahydrofuran
Concen: 22.669 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 42 Resp: 9729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.1 | 34.0 | 51.0 |
| 71 | 42.8 | 31.6 | 47.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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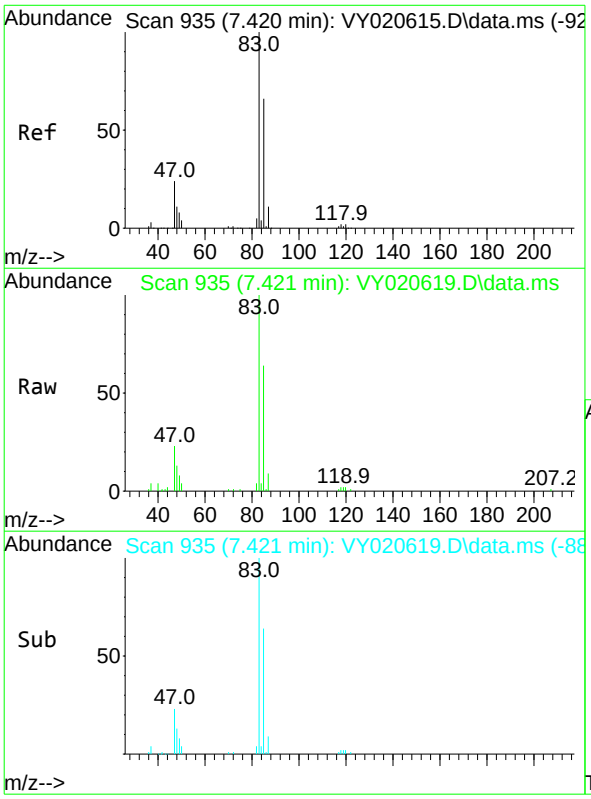
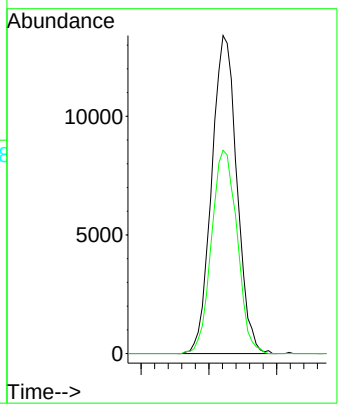
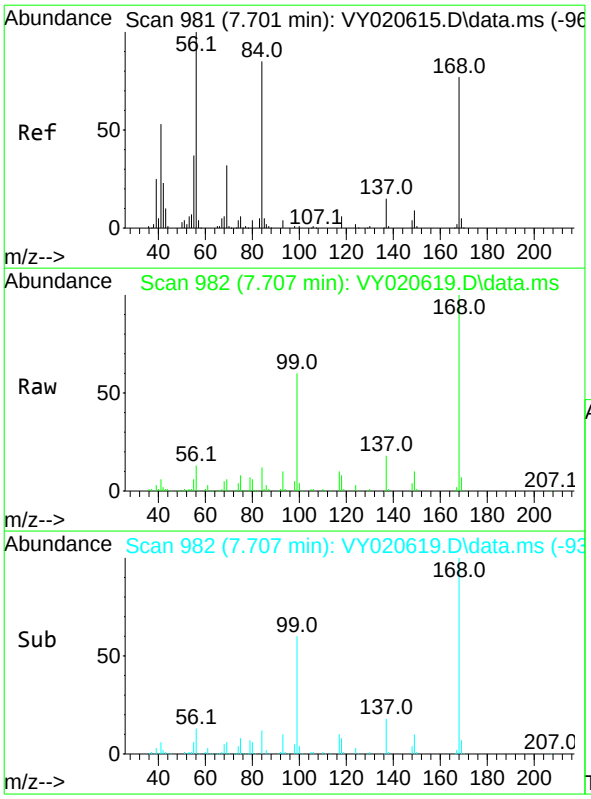



#30
Chloroform
Concen: 2.901 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 83 Resp: 34563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.9 | 52.7 | 79.1 |

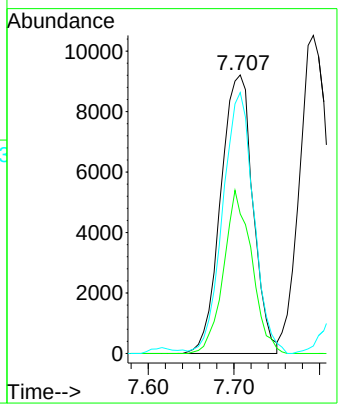





#31
Cyclohexane
Concen: 5.779 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 56 Resp: 24108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 50.1 | 25.4 | 38.0# |
| 84 | 92.6 | 68.3 | 102.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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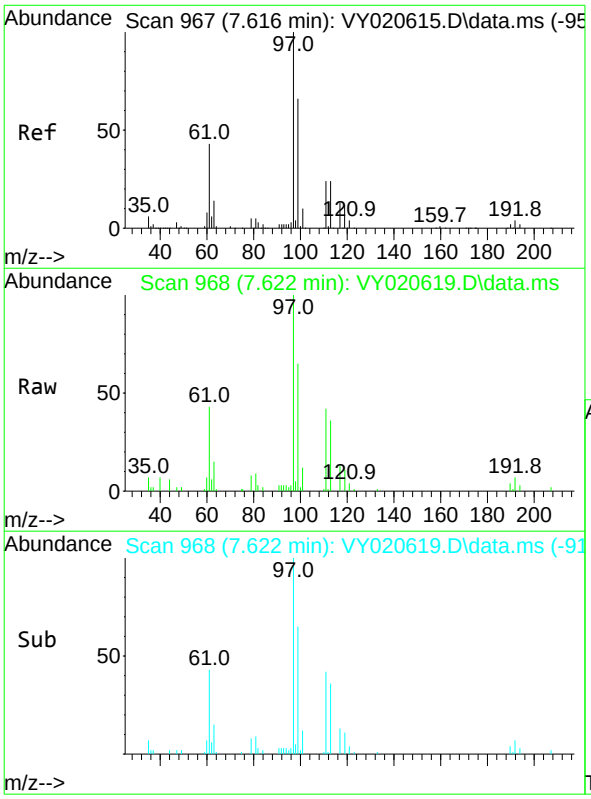
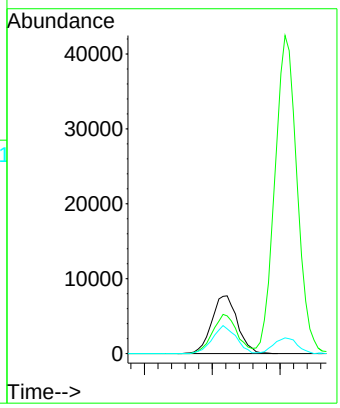
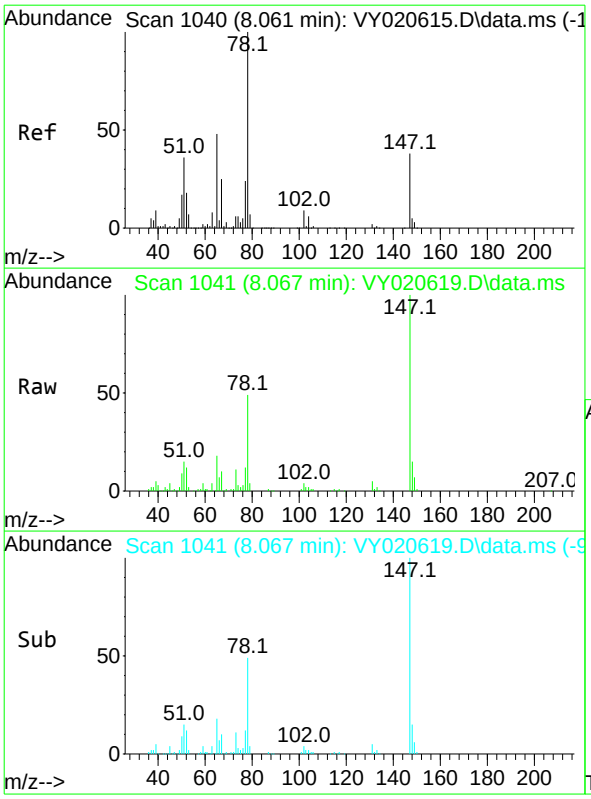



#32
1,1,1-Trichloroethane
Concen: 5.082 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 97 Resp: 20368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 44.4 | 34.7 | 52.1 |

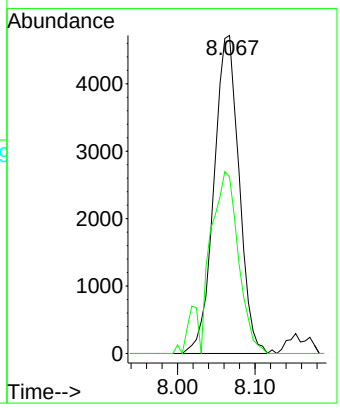





#33
1,2-Dichloroethane-d4
Concen: 5.810 ug/l
RT: 8.067 min Scan# 10
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 65 Resp: 10628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 68.2 | 0.0 | 108.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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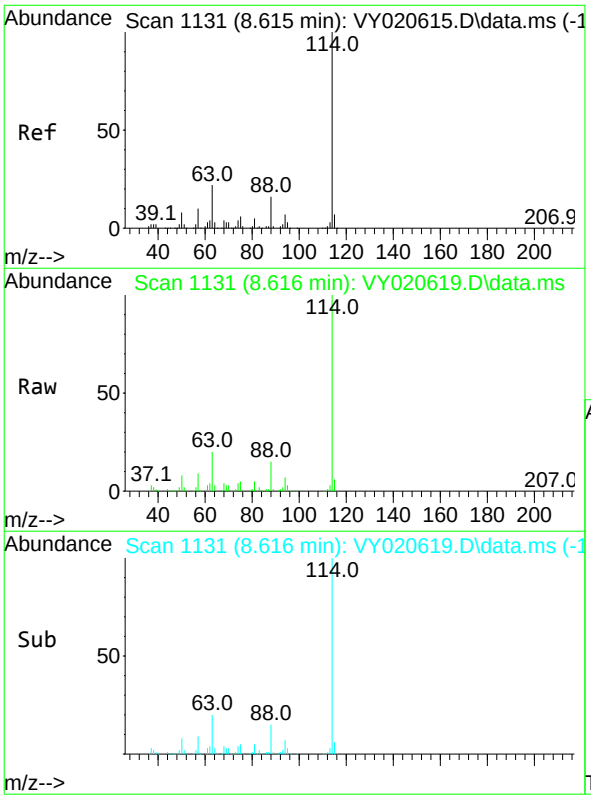
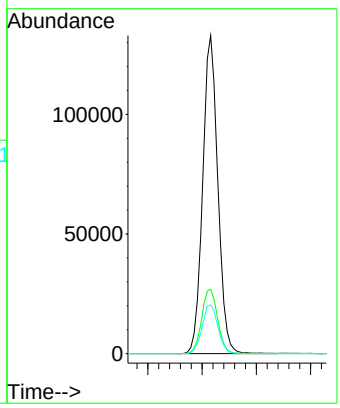
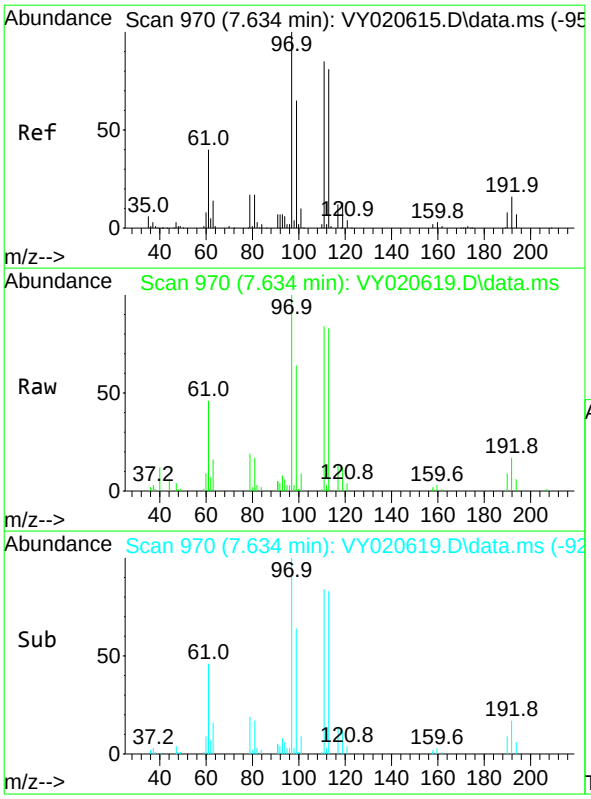



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:114 Resp: 257526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.2 | 0.0 | 44.0 |
| 88 | 15.3 | 0.0 | 32.8 |

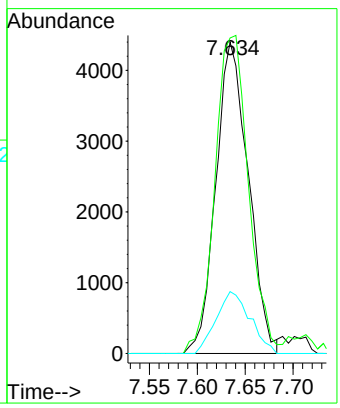





#35
Dibromofluoromethane
Concen: 5.726 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:113 Resp: 10393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 105.2 | 82.9 | 124.3 |
| 192 | 20.7 | 15.7 | 23.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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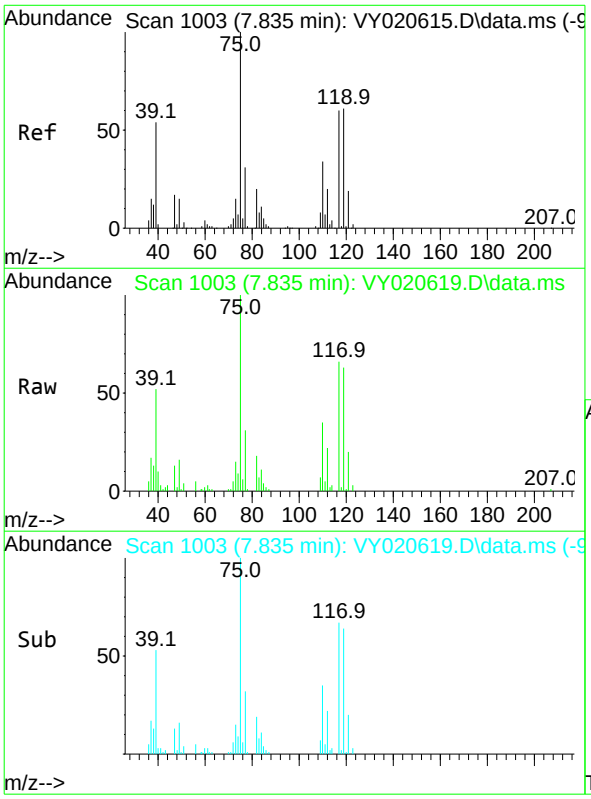
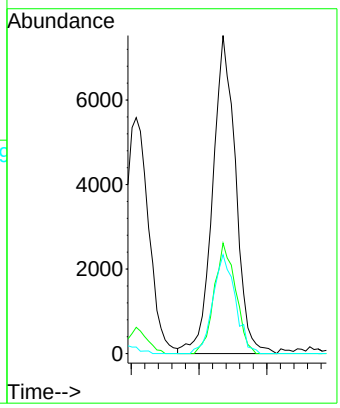
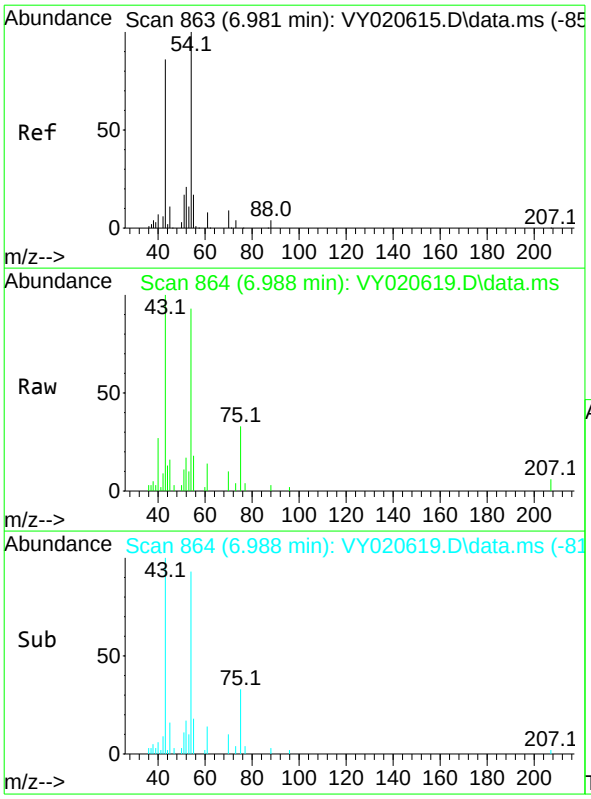



#36
1,1-Dichloropropene
Concen: 5.352 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 75 Resp: 17712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.5 | 16.8 | 50.4 |
| 77 | 30.3 | 25.0 | 37.6 |

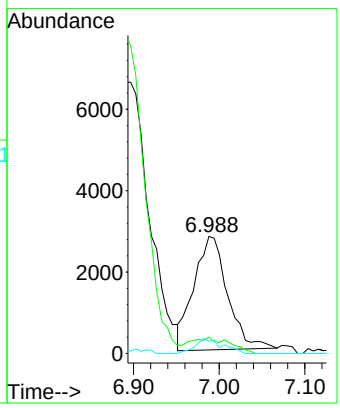





#37
Ethyl Acetate
Concen: 4.890 ug/l
RT: 6.988 min Scan# 86
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 7613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.0 | 11.0 | 16.4 |
| 70 | 10.7 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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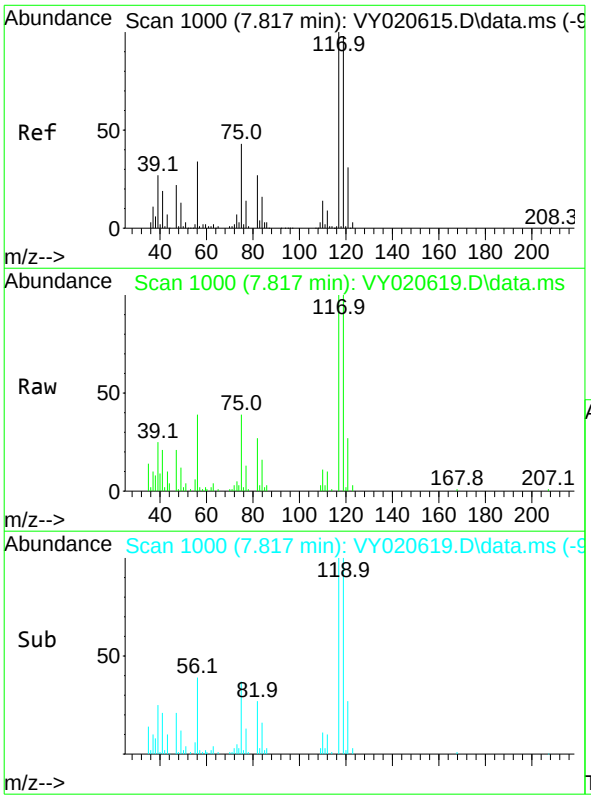
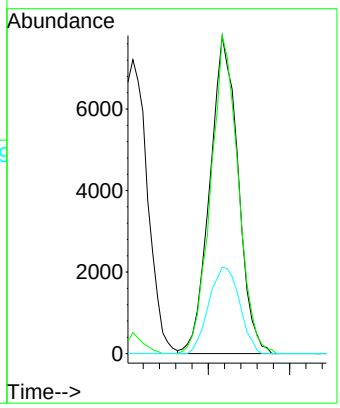
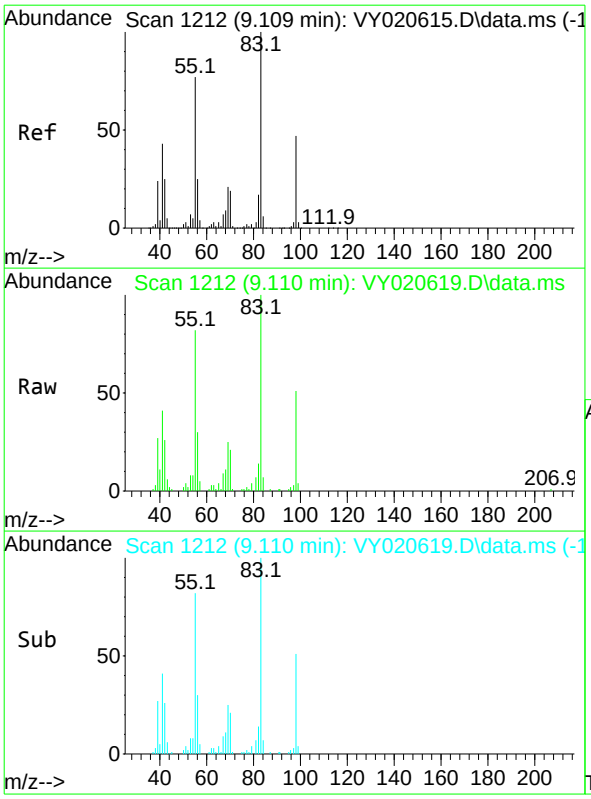



#38
Carbon Tetrachloride
Concen: 5.132 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:117 Resp: 18792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 100.1 | 78.3 | 117.5 |
| 121 | 27.2 | 25.1 | 37.7 |

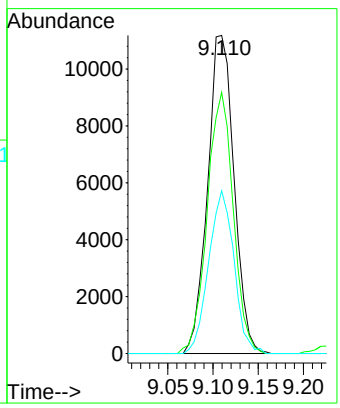





#39
Methylcyclohexane
Concen: 5.273 ug/l
RT: 9.110 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 83 Resp: 22745

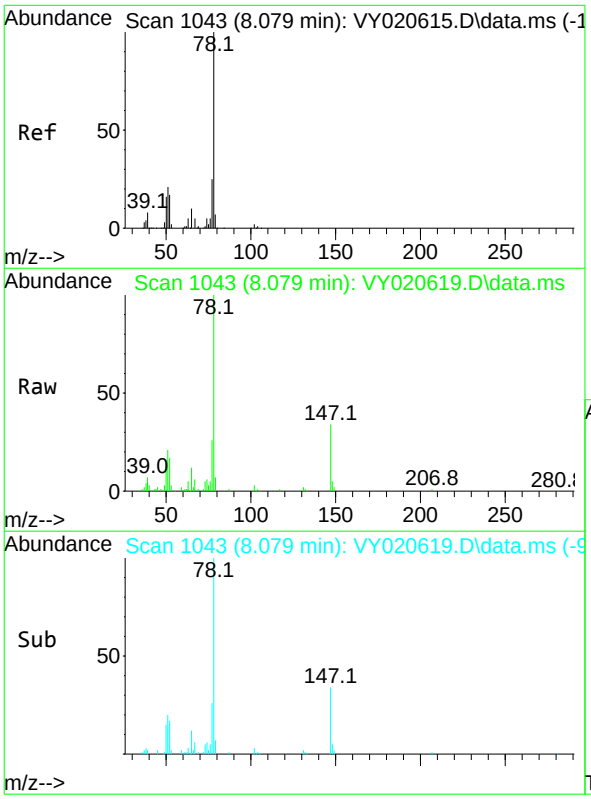
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 82.1 | 61.4 | 92.0 |
| 98 | 51.2 | 37.3 | 55.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

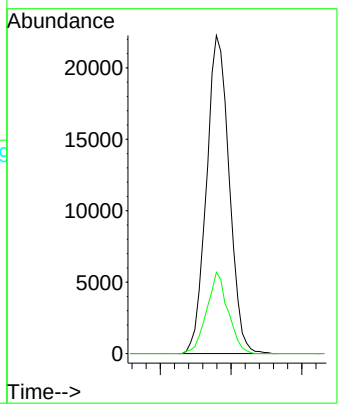
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

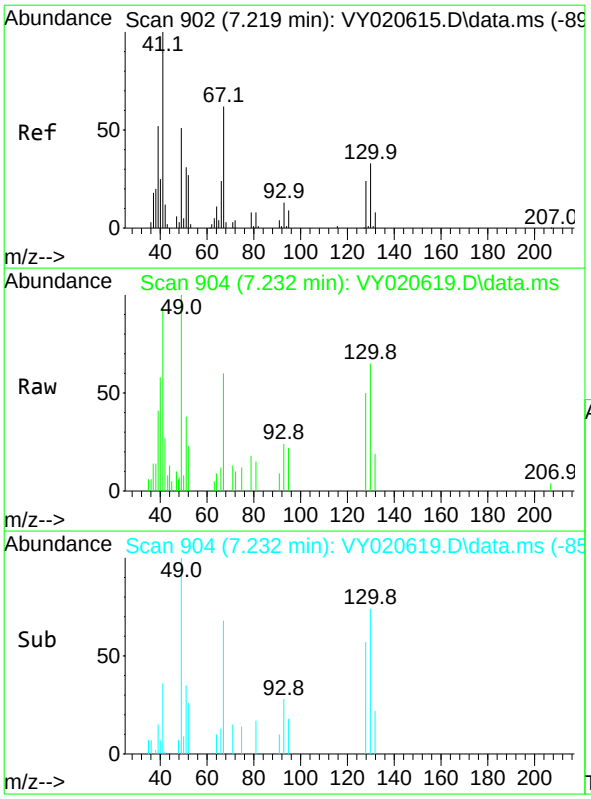



#40
Benzene
Concen: 5.117 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 78 Resp: 49636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.6 | 20.1 | 30.1 |

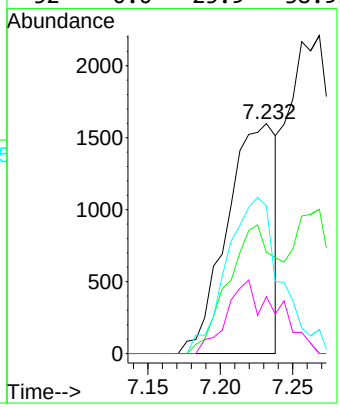





#41
Methacrylonitrile
Concen: 4.595 ug/l m
RT: 7.232 min Scan# 90
Delta R.T. 0.013 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 41 Resp: 3782

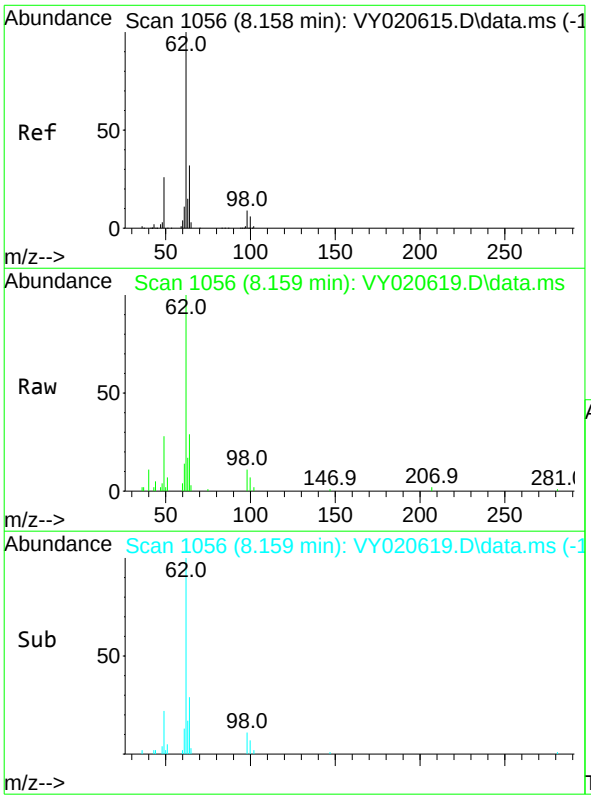
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 64.4 | 53.6 | 80.4 |
| 67 | 0.0 | 62.0 | 93.0# |
| 52 | 0.0 | 25.9 | 38.9# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

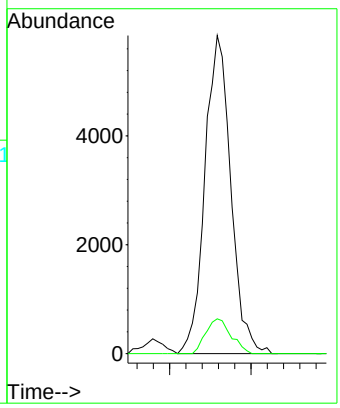
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

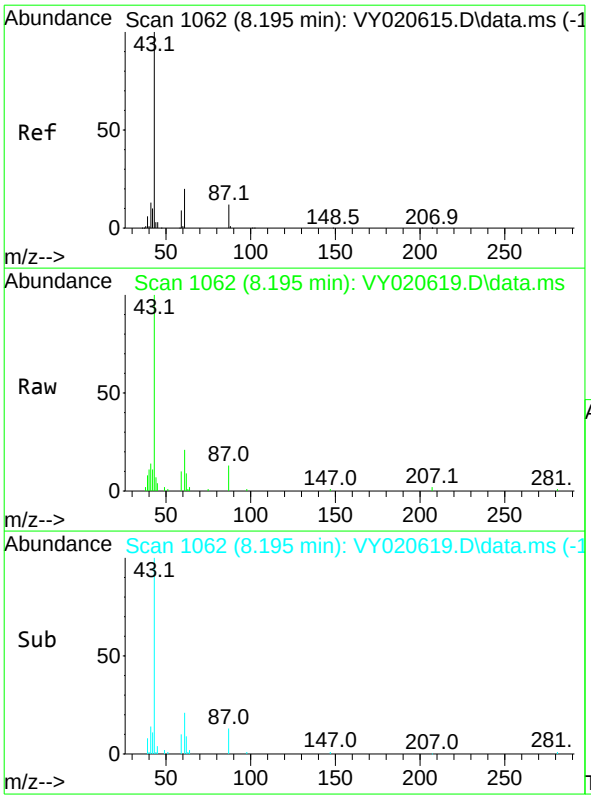



#42
1,2-Dichloroethane
Concen: 5.020 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 62 Resp: 12917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.6 | 0.0 | 18.0 |






#43
Isopropyl Acetate
Concen: 4.533 ug/l
RT: 8.195 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 13361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 19.4 | 23.8 | 35.6# |
| 87 | 13.6 | 10.2 | 15.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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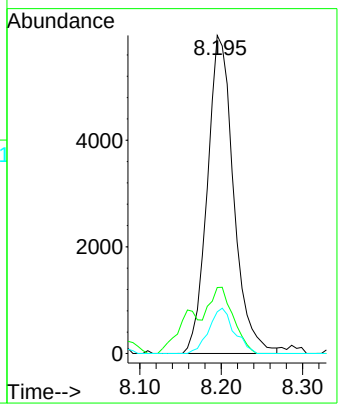
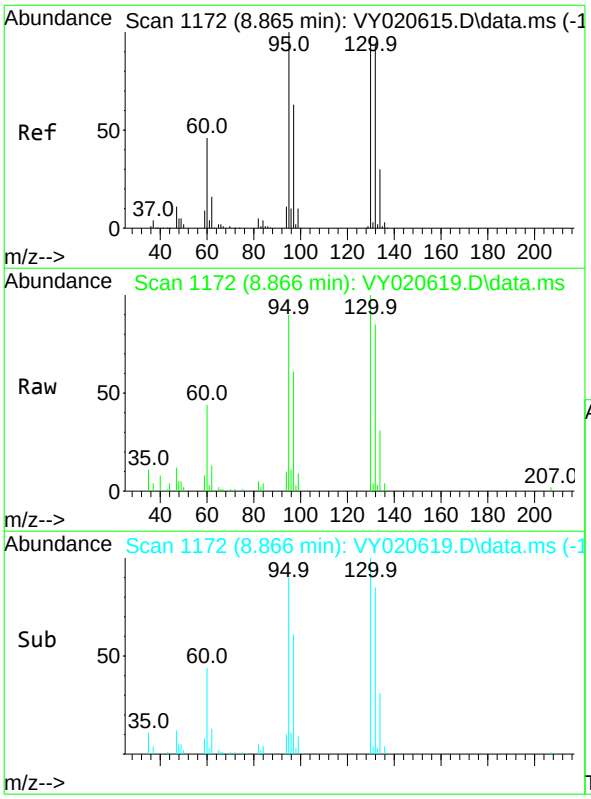
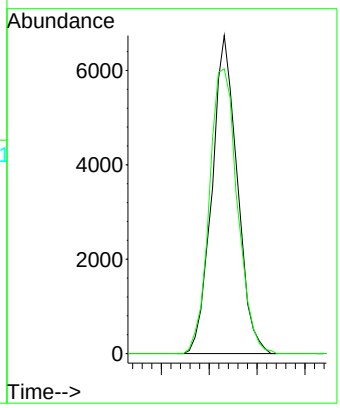


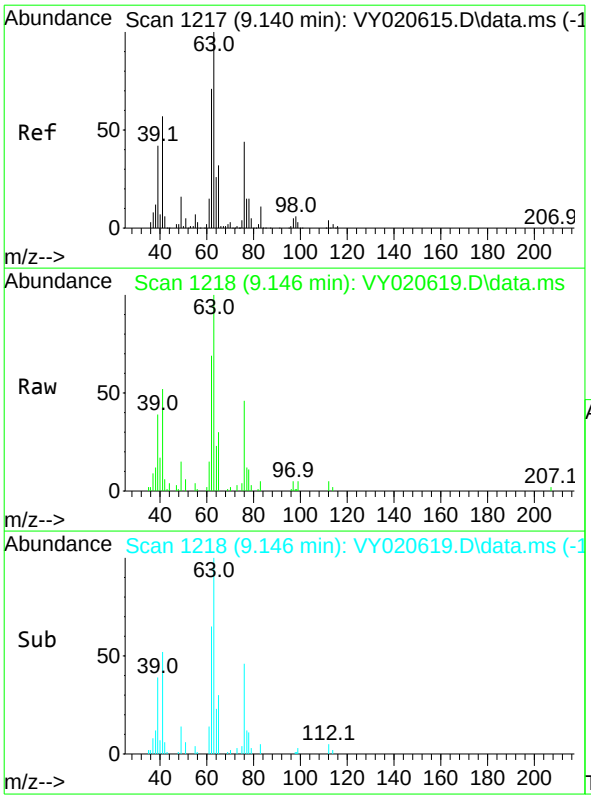




#44
Trichloroethene
Concen: 5.195 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:130 Resp: 12384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 89.5 | 0.0 | 203.2 |

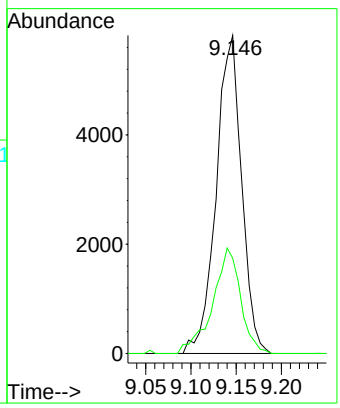





#45
1,2-Dichloropropane
Concen: 5.019 ug/l
RT: 9.146 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 63 Resp: 11378

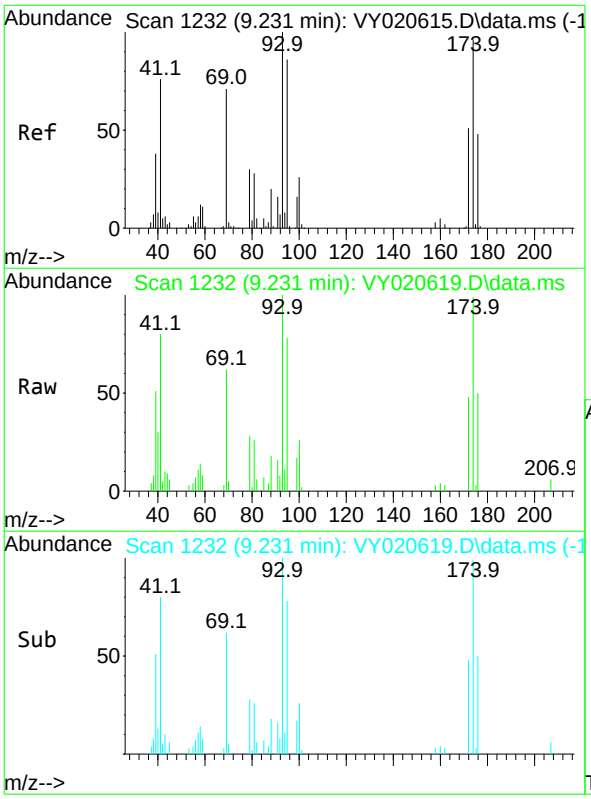
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.0 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

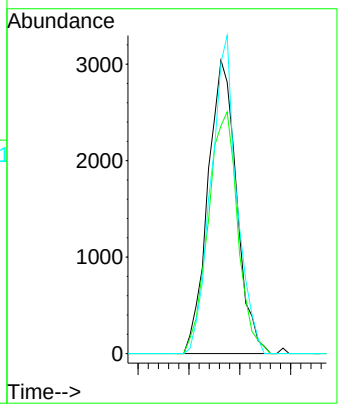
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

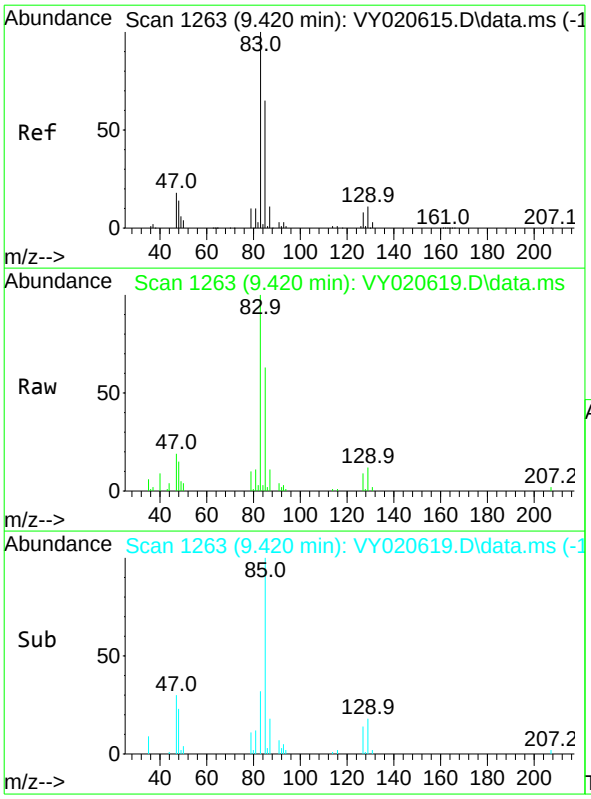



#46
Dibromomethane
Concen: 4.978 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 93 Resp: 5965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.5 | 66.7 | 100.1 |
| 174 | 97.0 | 77.8 | 116.6 |

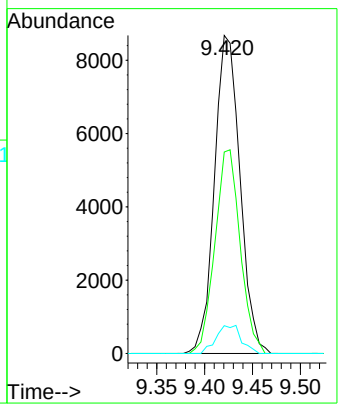





#47
Bromodichloromethane
Concen: 4.979 ug/l
RT: 9.420 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 83 Resp: 16115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 52.1 | 78.1 |
| 127 | 8.7 | 6.7 | 10.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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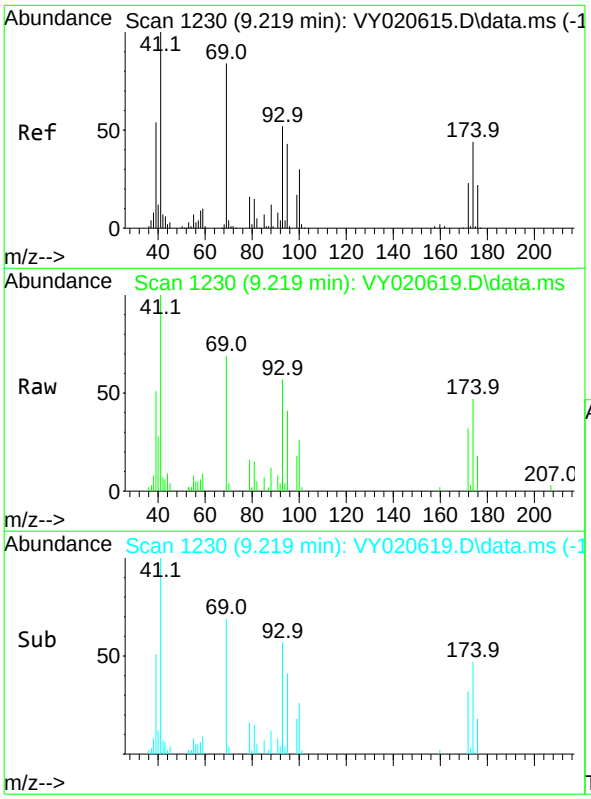
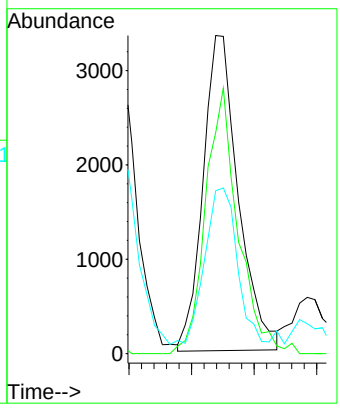
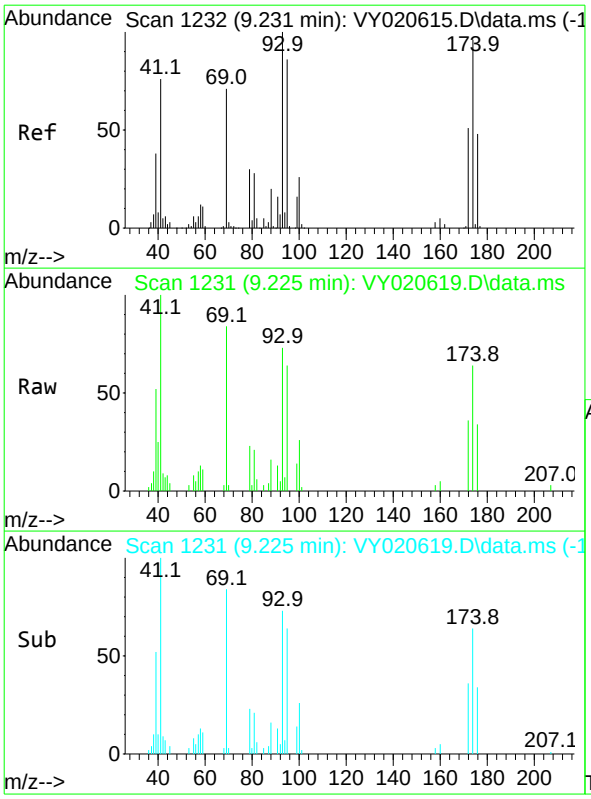



#48
Methyl methacrylate
Concen: 4.671 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 41 Resp: 6545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 77.6 | 67.2 | 100.8 |
| 39 | 47.3 | 42.2 | 63.4 |






#49
1,4-Dioxane
Concen: 92.278 ug/l
RT: 9.225 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 88 Resp: 1268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 51.4 | 27.6 | 41.4# |
| 58 | 66.2 | 61.7 | 92.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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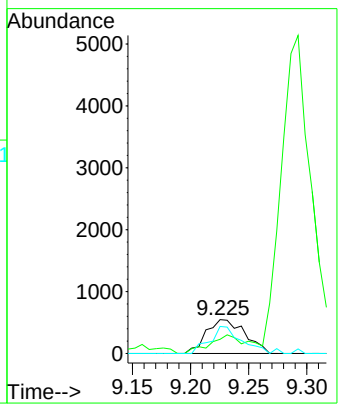
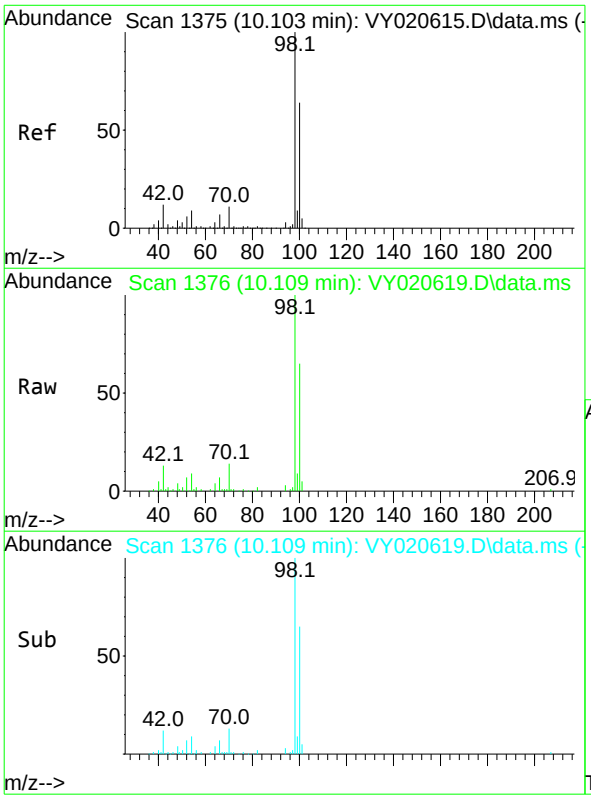
Supervised By :Semsettin Yesilyurt 12/18/2024

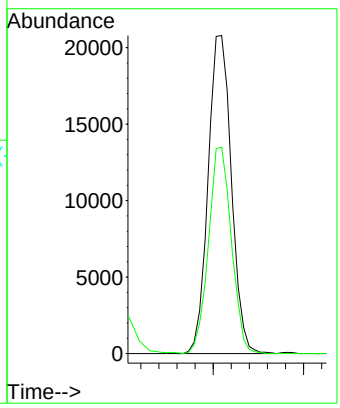


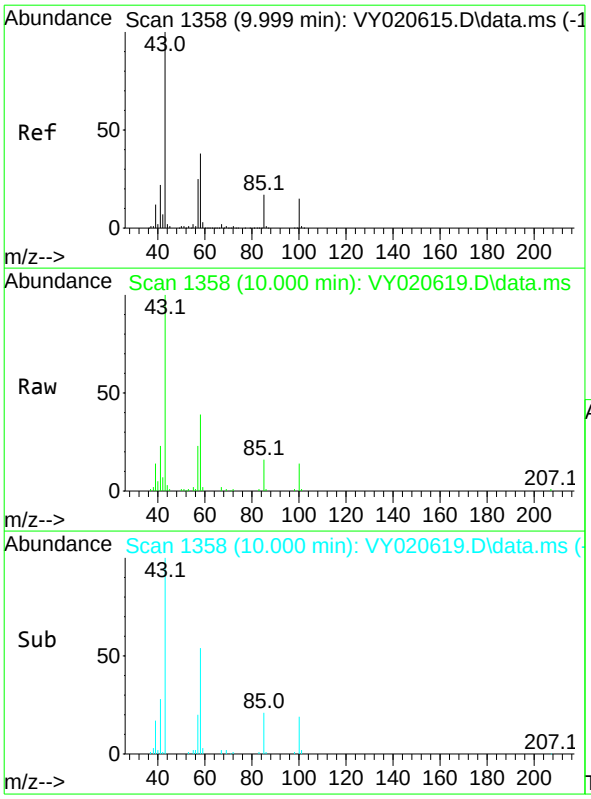




#50
Toluene-d8
Concen: 5.858 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 98 Resp: 37211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.8 | 52.1 | 78.1 |

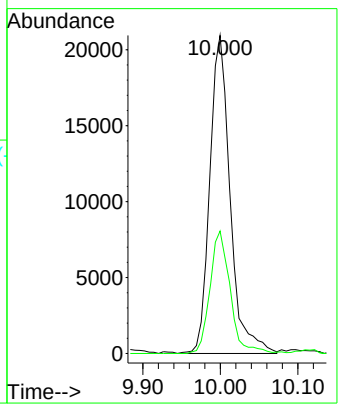





#51
4-Methyl-2-Pentanone
Concen: 24.607 ug/l
RT: 10.000 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 38280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.3 | 31.4 | 47.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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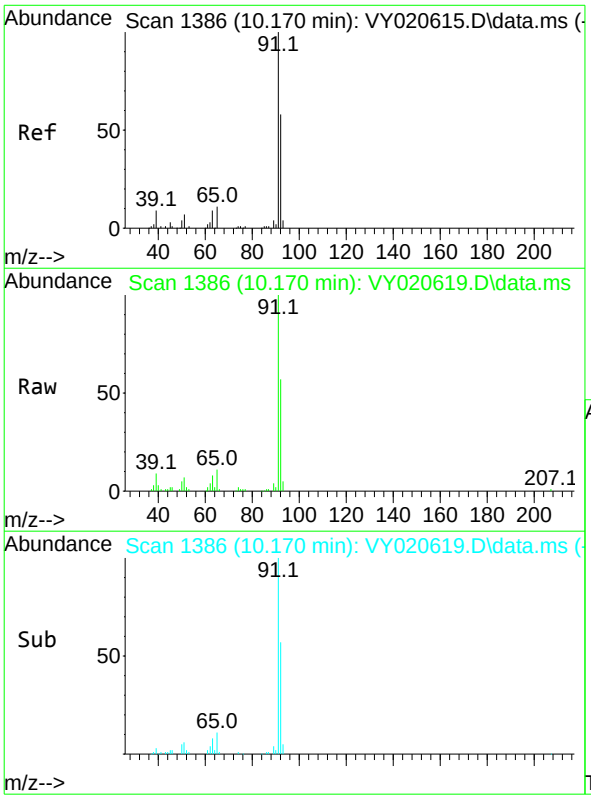
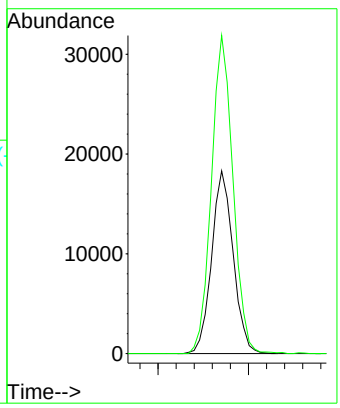
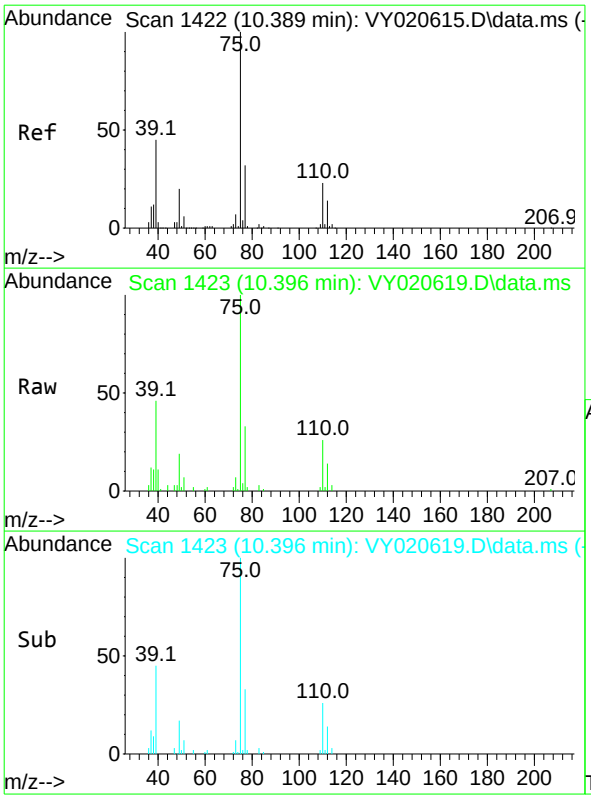



#52
Toluene
Concen: 5.025 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 92 Resp: 30294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.2 | 137.4 | 206.0 |

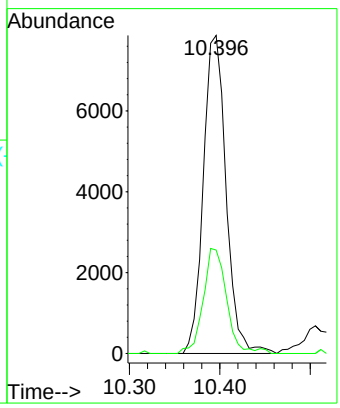





#53
t-1,3-Dichloropropene
Concen: 4.558 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 75 Resp: 13747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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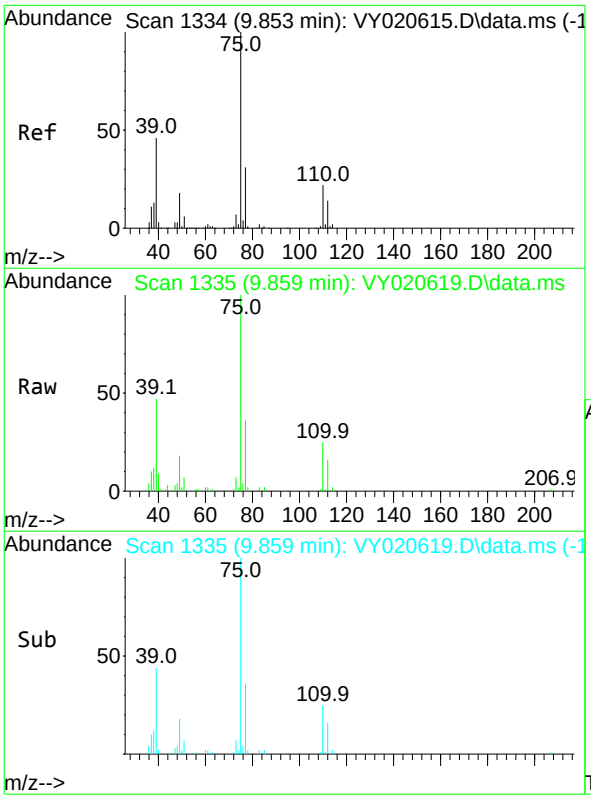
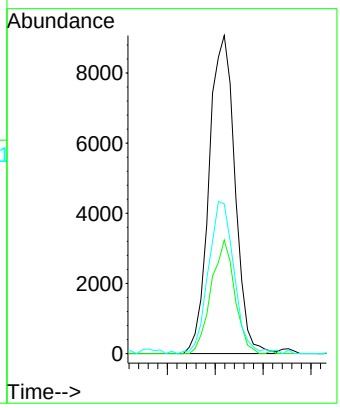
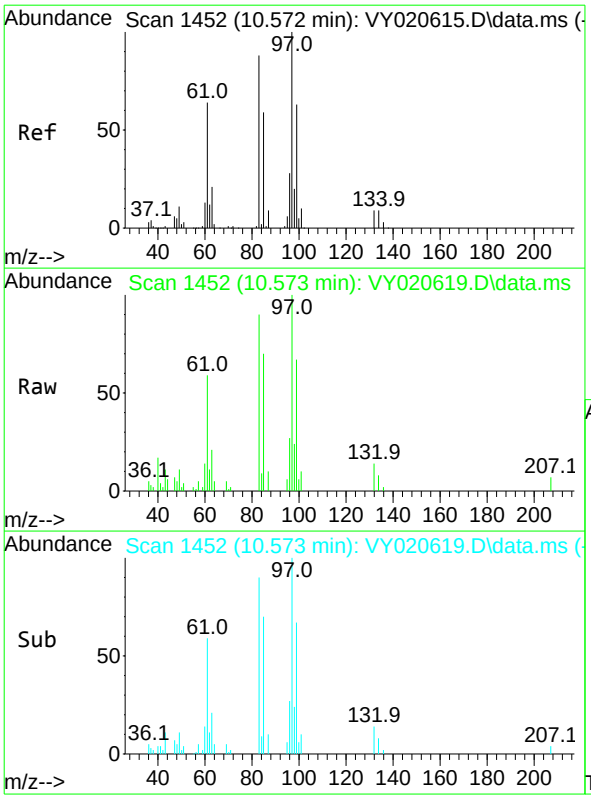



#54
cis-1,3-Dichloropropene
Concen: 4.764 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 75 Resp: 17025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 35.7 | 24.6 | 36.8 |
| 39 | 47.1 | 36.4 | 54.6 |

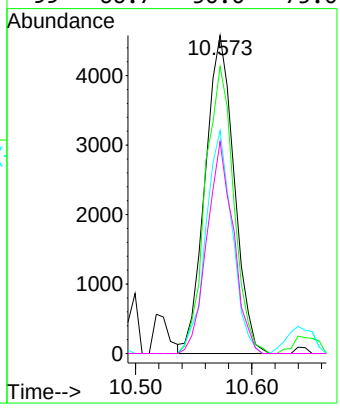





#55
1,1,2-Trichloroethane
Concen: 5.009 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 97 Resp: 7935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 90.2 | 70.4 | 105.6 |
| 85 | 70.1 | 47.2 | 70.8 |
| 99 | 66.7 | 50.0 | 75.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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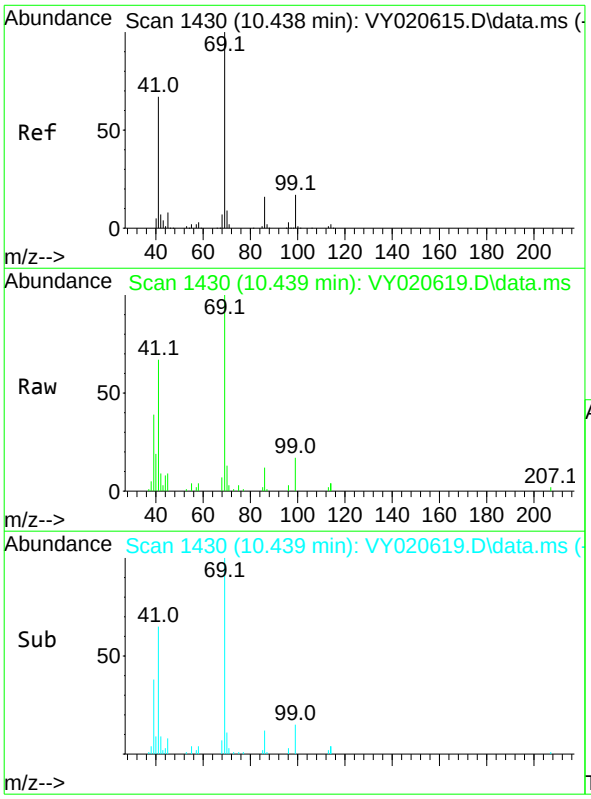
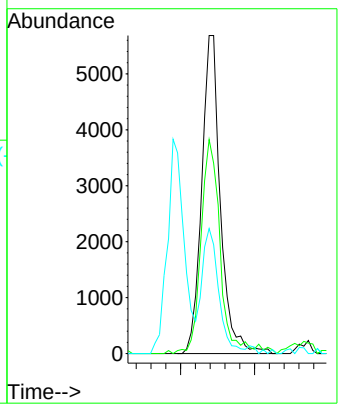
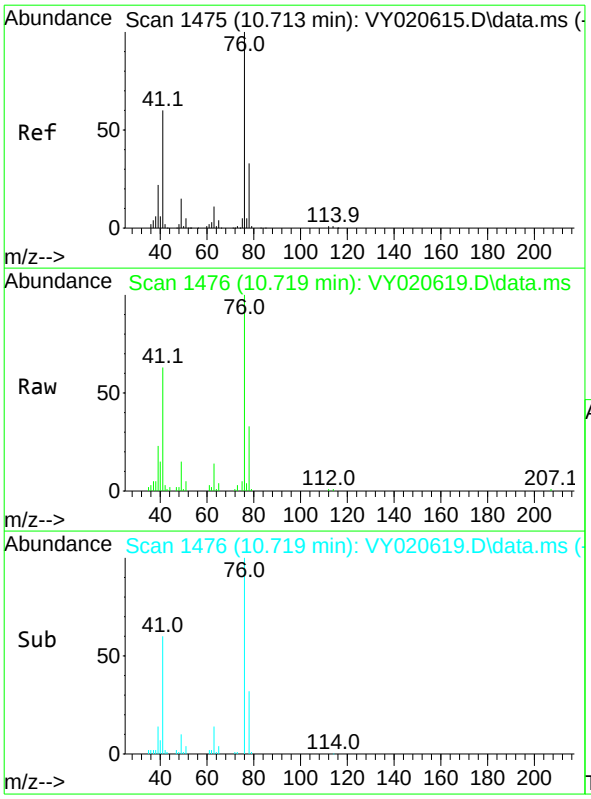



#56
Ethyl methacrylate
Concen: 4.351 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 69 Resp: 10000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 67.9 | 54.0 | 81.0 |
| 39 | 32.8 | 27.9 | 41.9 |






#57
1,3-Dichloropropane
Concen: 4.870 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

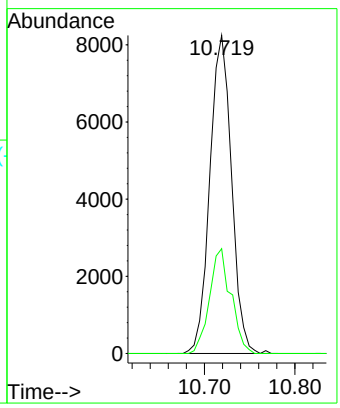
Tgt Ion: 76 Resp: 13754

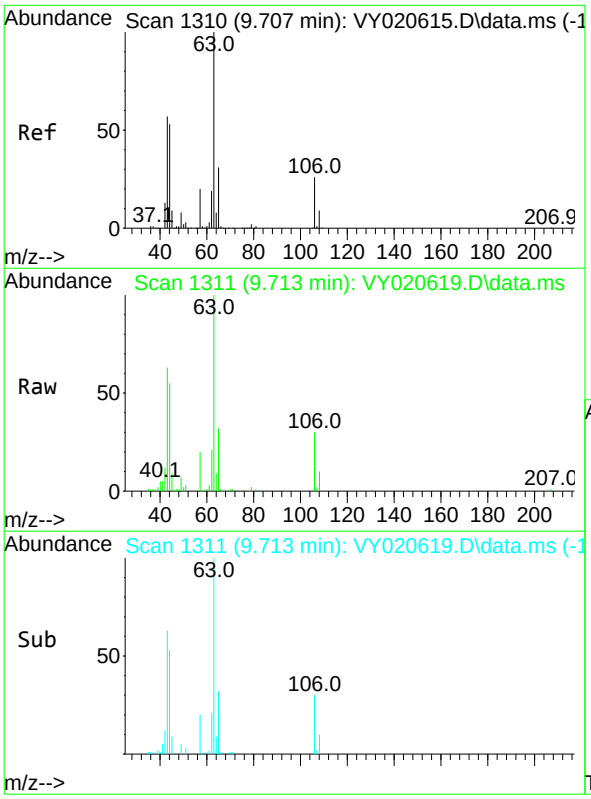
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

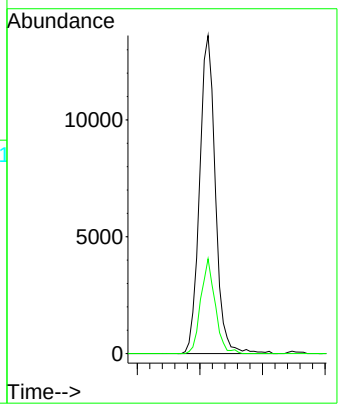


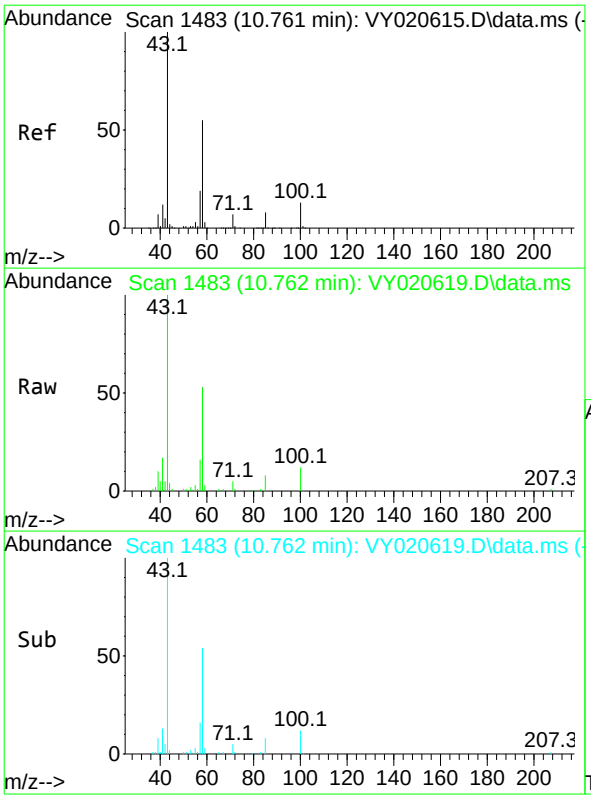




#58
2-Chloroethyl Vinyl ether
Concen: 24.686 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 63 Resp: 23872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.1 | 21.5 | 32.3 |

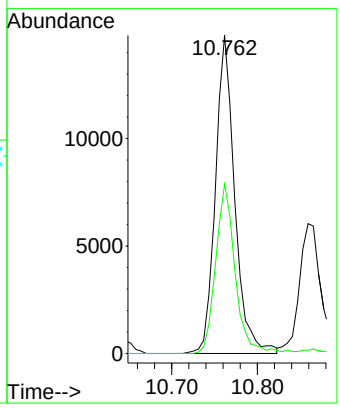





#59
2-Hexanone
Concen: 23.192 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 23164

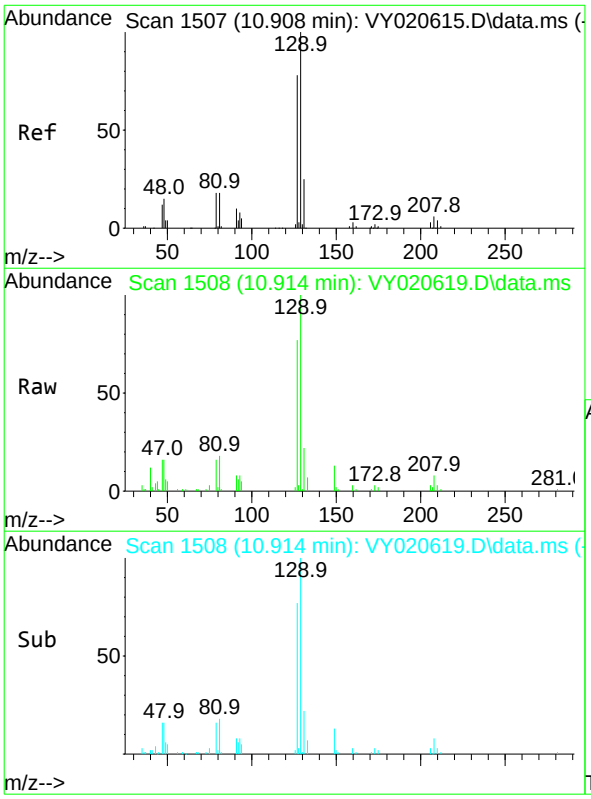
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 53.5 | 27.2 | 81.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

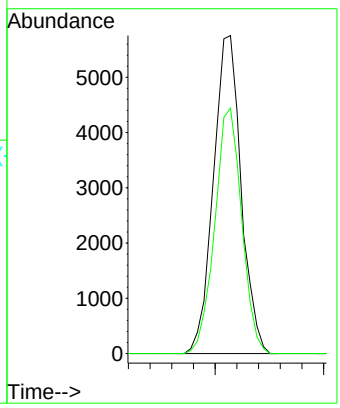
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

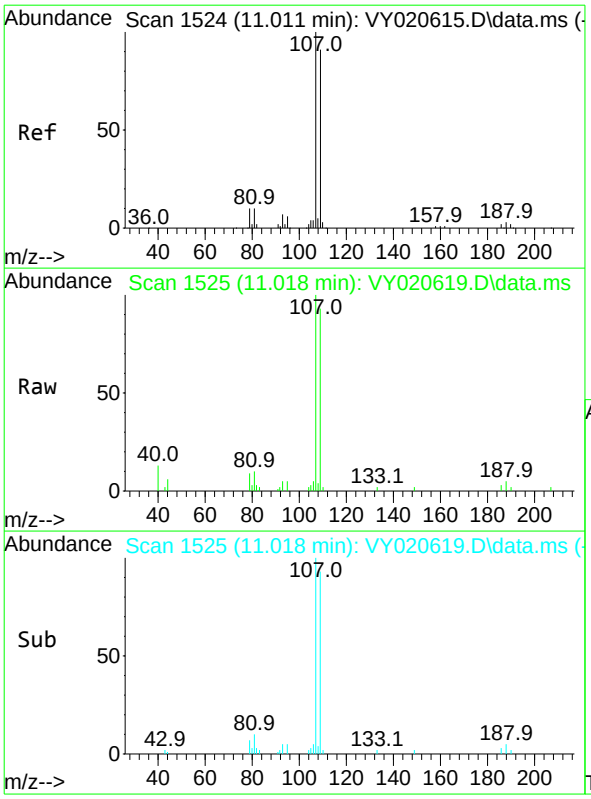



#60
Dibromochloromethane
Concen: 4.818 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:129 Resp: 10207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 74.9 | 38.1 | 114.3 |

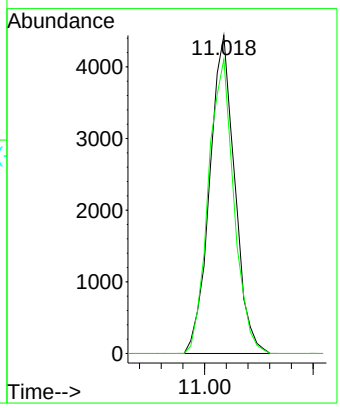





#61
1,2-Dibromoethane
Concen: 4.847 ug/l
RT: 11.018 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:107 Resp: 7143

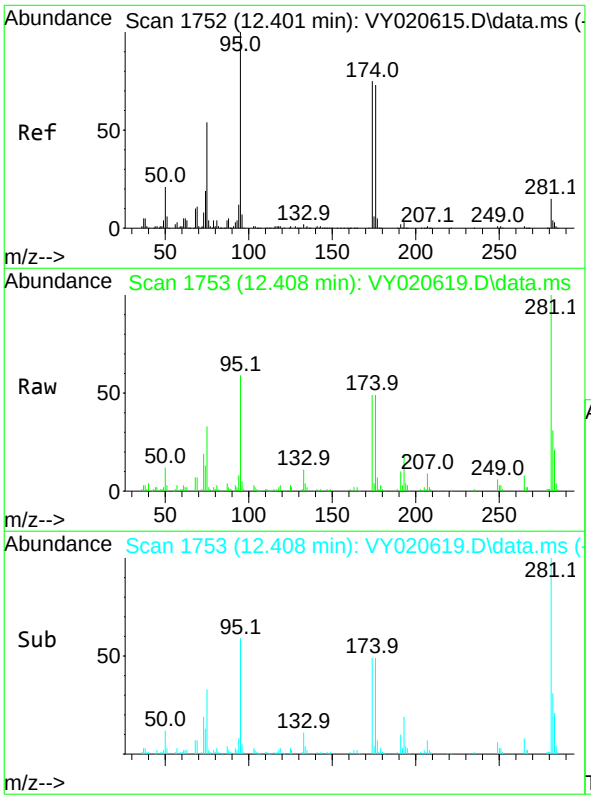
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.9 | 75.4 | 113.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

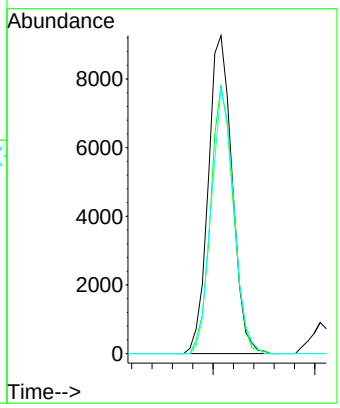
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

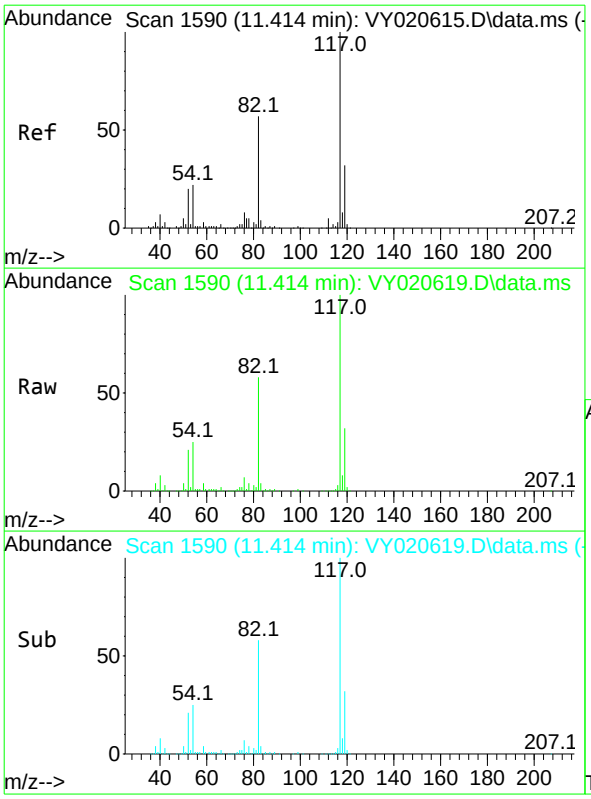



#62
4-Bromofluorobenzene
Concen: 6.066 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 95 Resp: 15073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.0 | 0.0 | 161.8 |
| 176 | 79.5 | 0.0 | 156.6 |

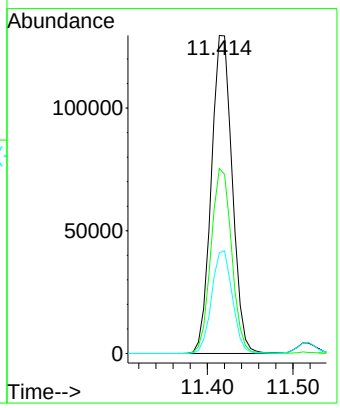





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:117 Resp: 219786

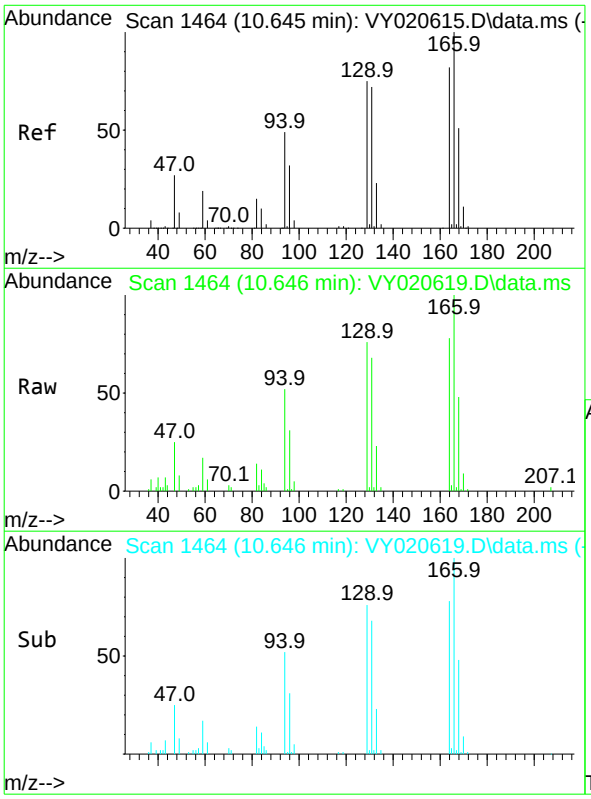
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.1 | 45.8 | 68.6 |
| 119 | 31.6 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

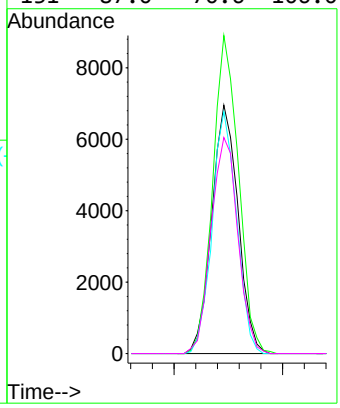
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

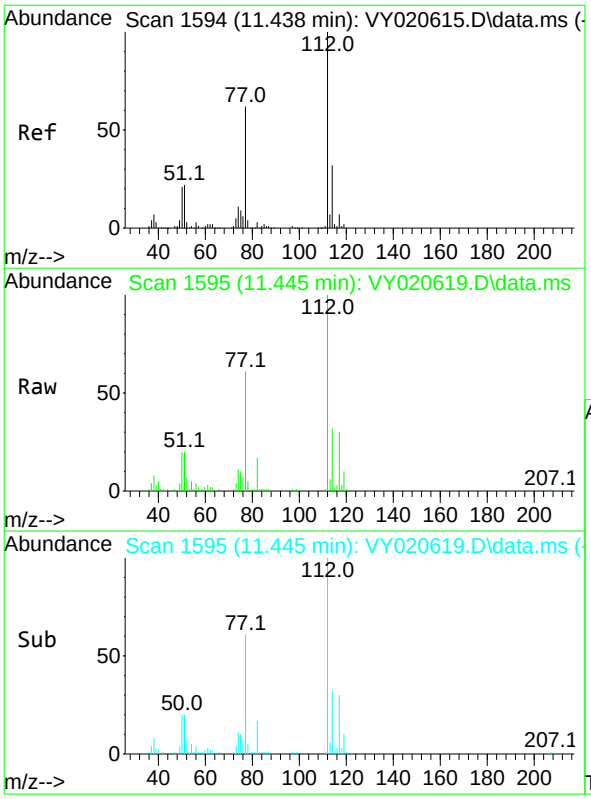



#64
Tetrachloroethene
Concen: 5.663 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:164 Resp: 11707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.0 | 97.9 | 146.9 |
| 129 | 97.3 | 73.4 | 110.0 |
| 131 | 87.0 | 70.6 | 106.0 |

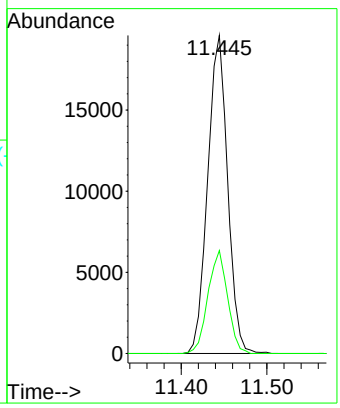





#65
Chlorobenzene
Concen: 5.154 ug/l
RT: 11.445 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:112 Resp: 31674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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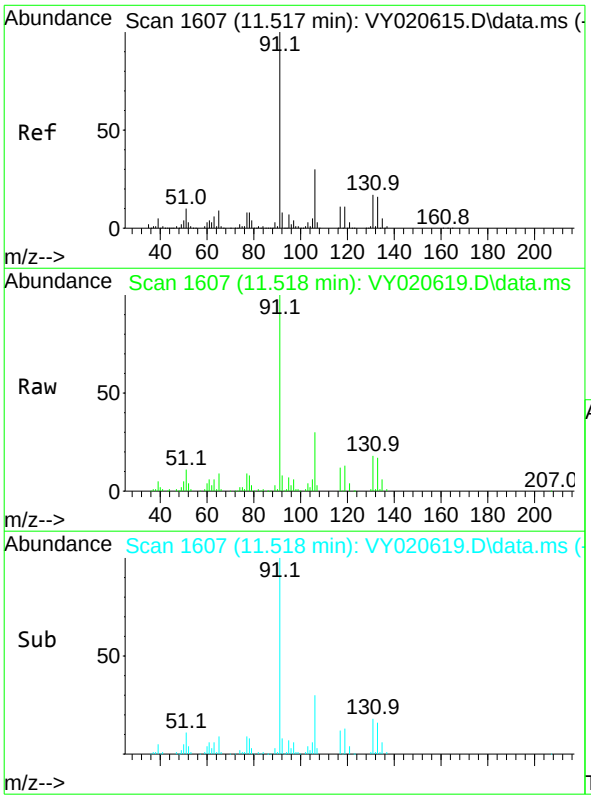
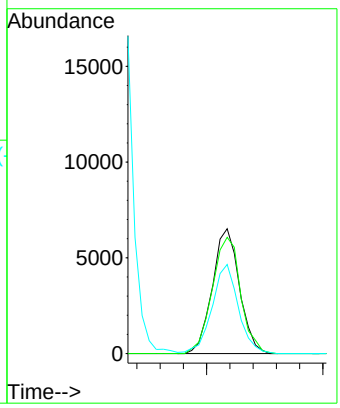
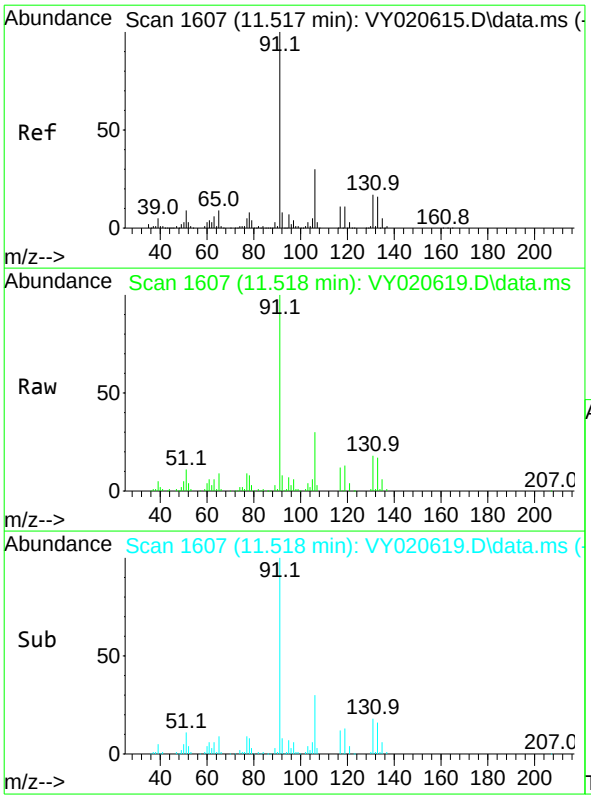



#66
1,1,1,2-Tetrachloroethane
Concen: 5.009 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:131 Resp: 10526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.9 | 46.8 | 140.3 |
| 119 | 69.6 | 31.8 | 95.3 |

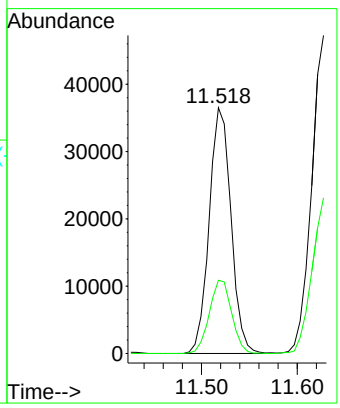





#67
Ethyl Benzene
Concen: 5.103 ug/l
RT: 11.518 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 91 Resp: 57861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.8 | 23.9 | 35.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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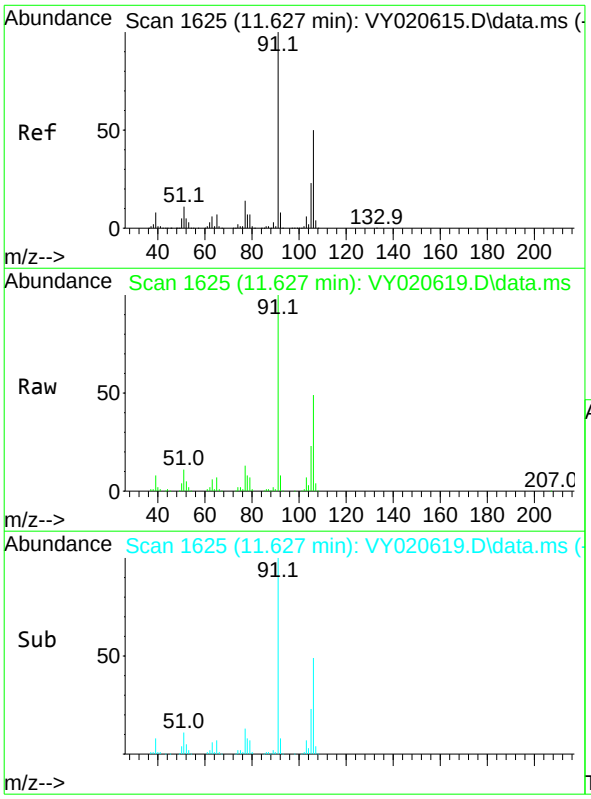
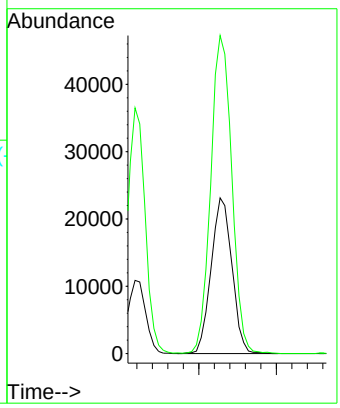
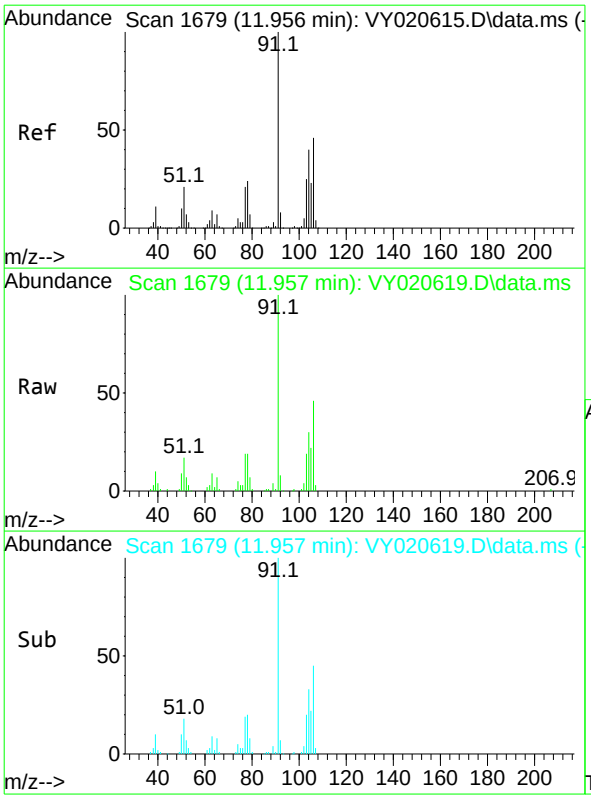



#68
m/p-Xylenes
Concen: 10.262 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:106 Resp: 43257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.6 | 165.0 | 247.4 |

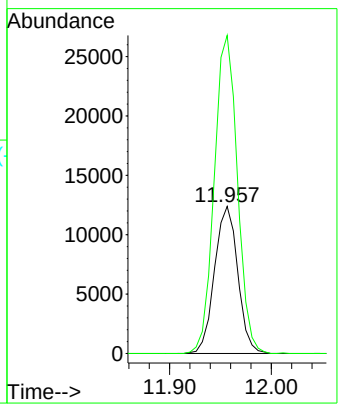





#69
o-Xylene
Concen: 4.993 ug/l
RT: 11.957 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:106 Resp: 19639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.2 | 108.4 | 325.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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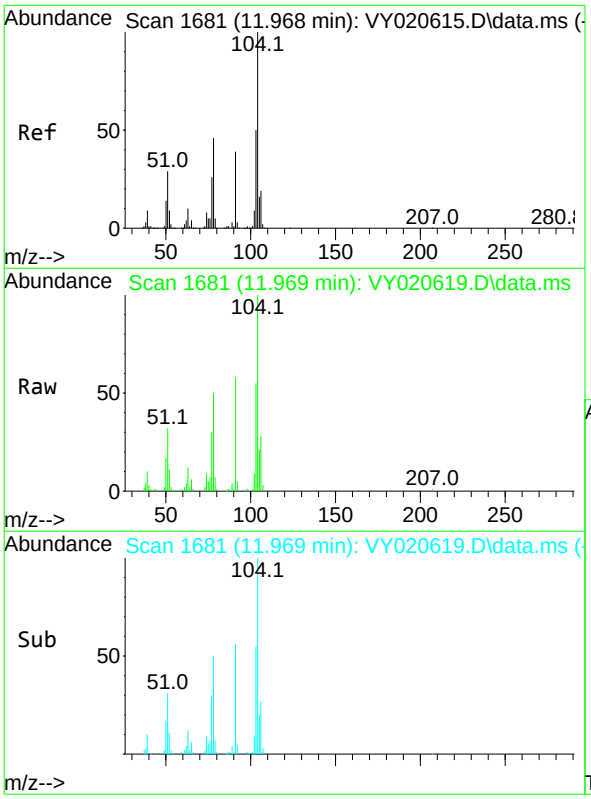
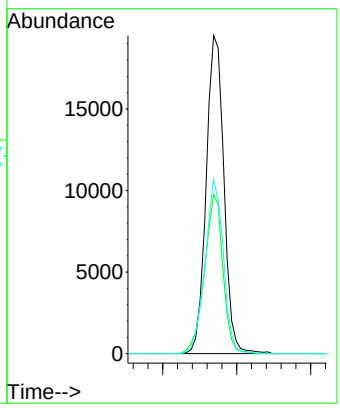
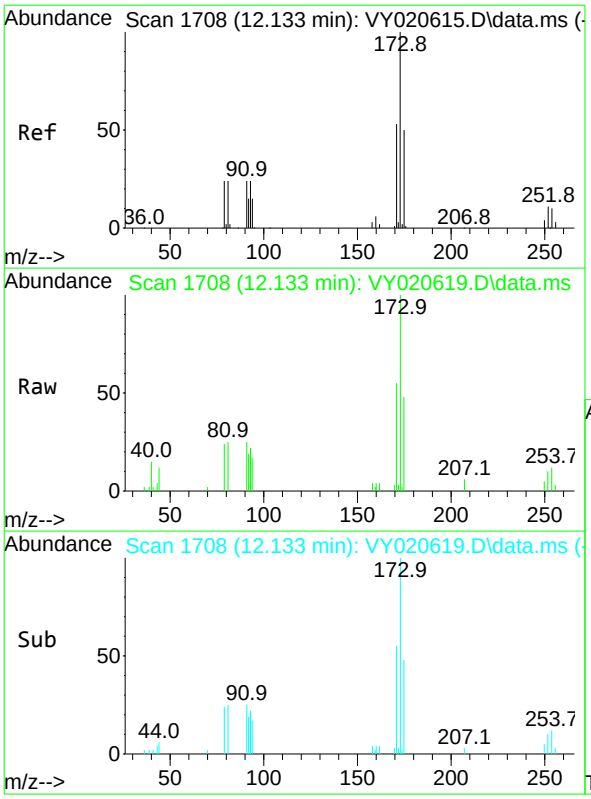



#70
Styrene
Concen: 4.945 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:104 Resp: 32495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.0 | 41.6 | 62.4 |
| 103 | 55.9 | 43.7 | 65.5 |

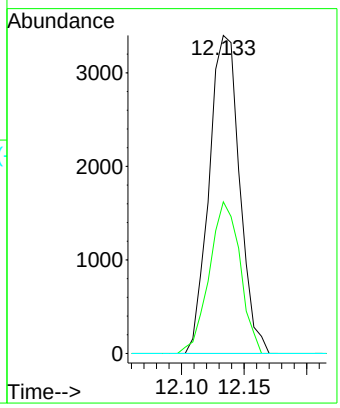





#71
Bromoform
Concen: 4.877 ug/l
RT: 12.133 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:173 Resp: 5762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.1 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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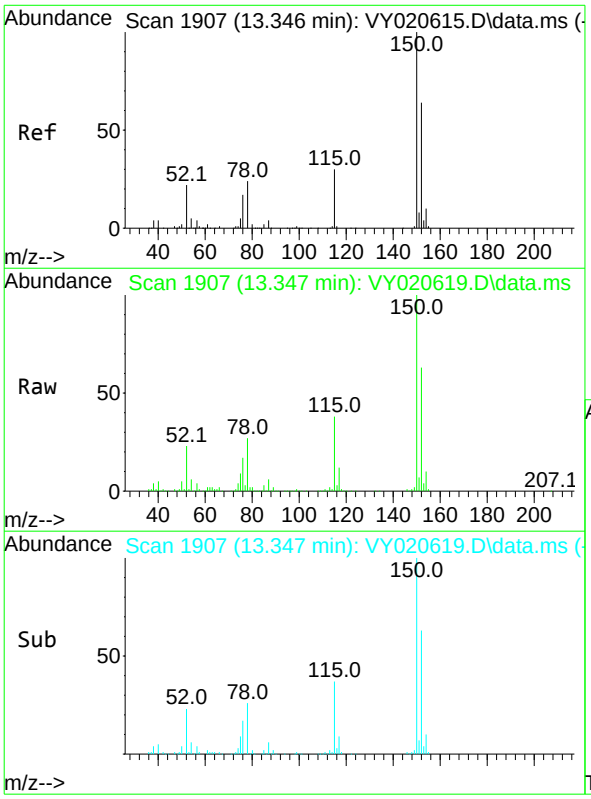
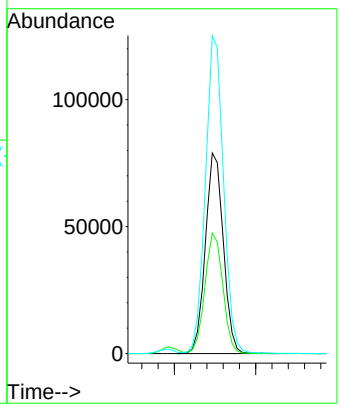
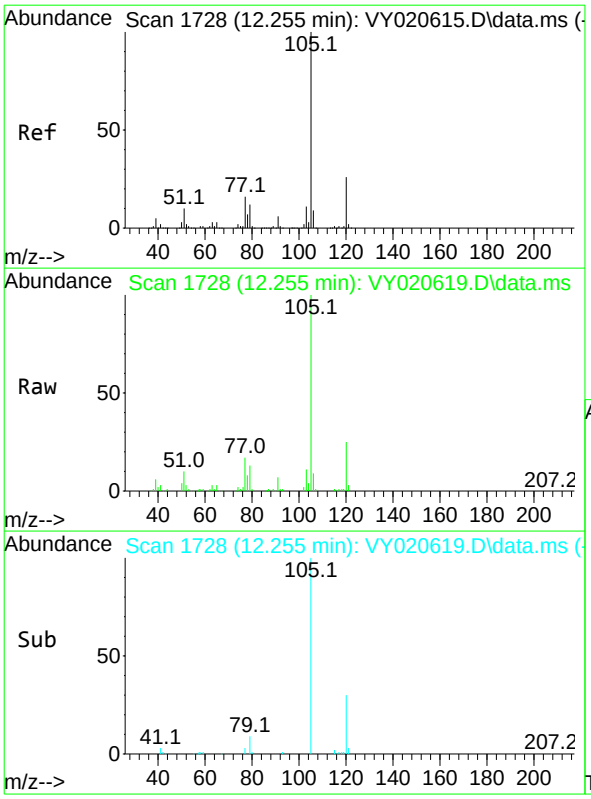



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:152 Resp: 120870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.3 | 30.2 | 90.6 |
| 150 | 160.3 | 0.0 | 355.4 |

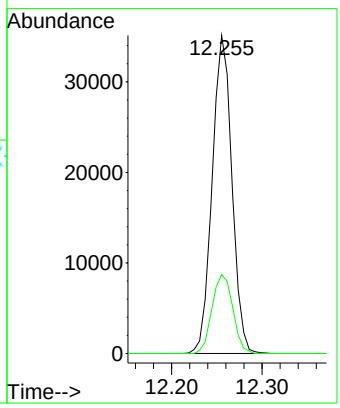





#73
Isopropylbenzene
Concen: 5.043 ug/l
RT: 12.255 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:105 Resp: 53196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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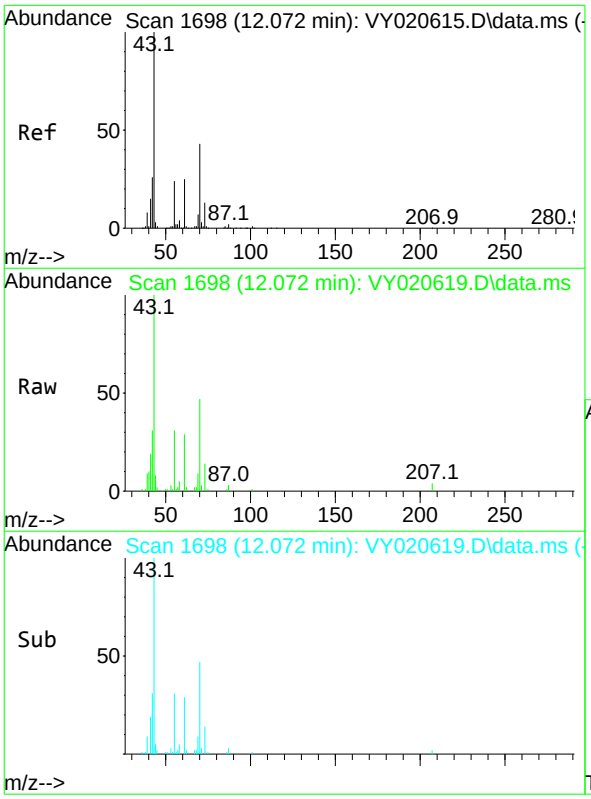
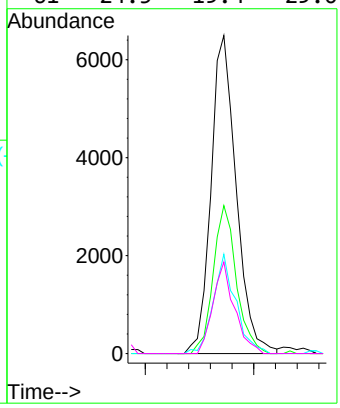
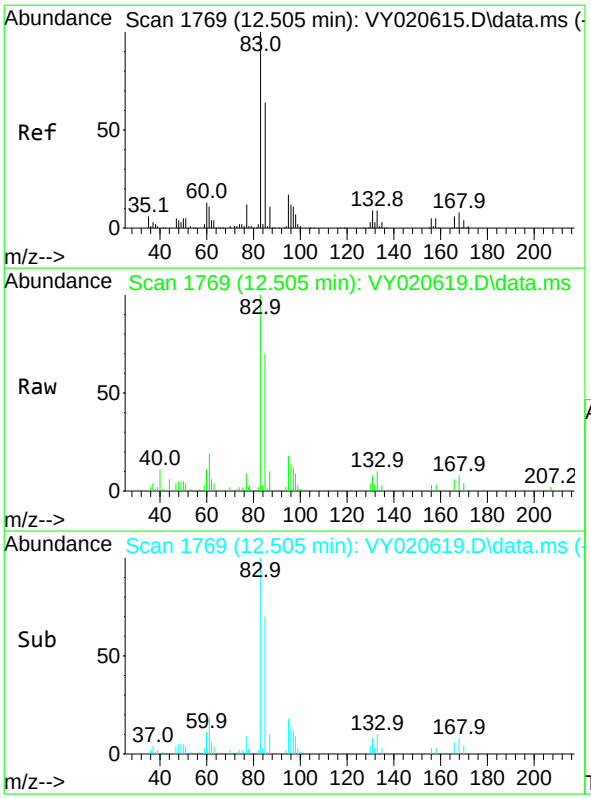



#74
N-amyl acetate
Concen: 4.245 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 10480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.8 | 34.2 | 51.2 |
| 55 | 27.8 | 19.6 | 29.4 |
| 61 | 24.5 | 19.4 | 29.0 |

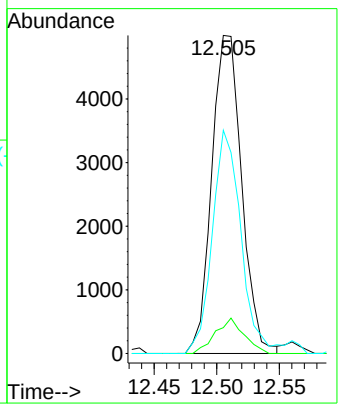





#75
1,1,2,2-Tetrachloroethane
Concen: 4.866 ug/l
RT: 12.505 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 83 Resp: 8331

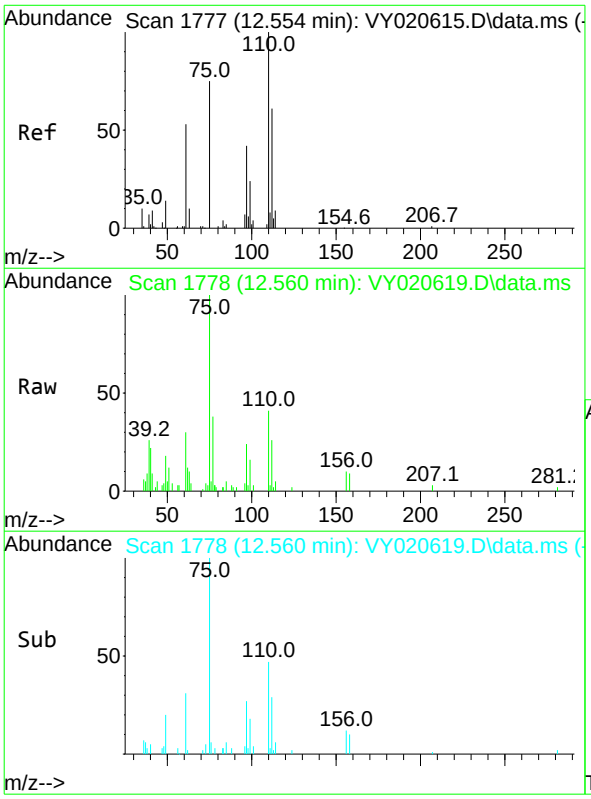
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.2 | 15.6 |
| 85 | 67.3 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

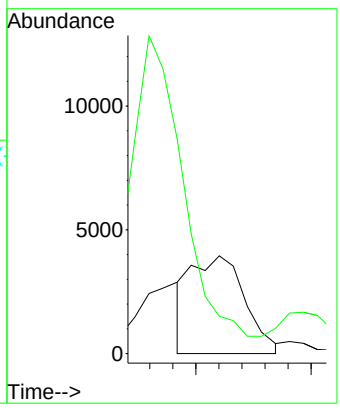
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

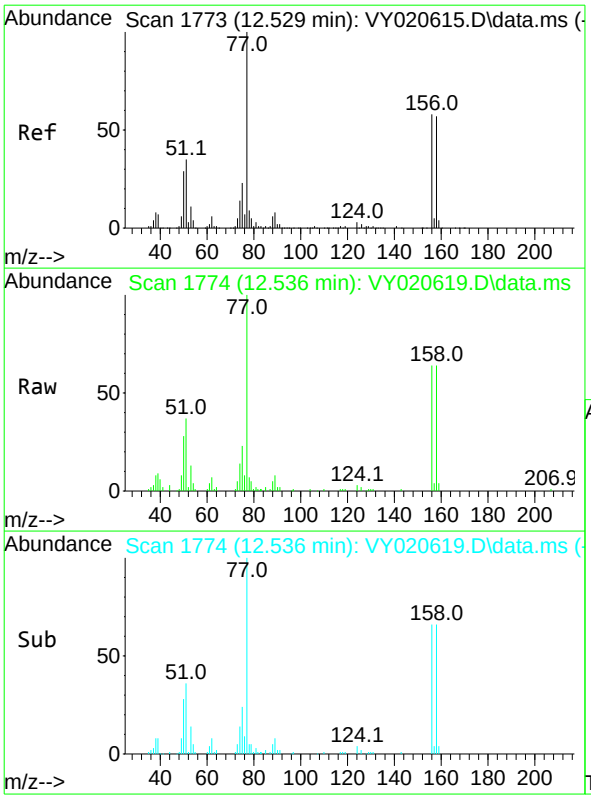



#76
1,2,3-Trichloropropane
Concen: 5.167 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 75 Resp: 6432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

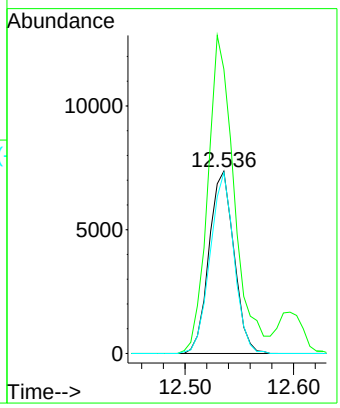





#77
Bromobenzene
Concen: 5.124 ug/l
RT: 12.536 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:156 Resp: 11774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 185.9 | 94.2 | 282.4 |
| 158 | 94.9 | 48.9 | 146.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/18/2024
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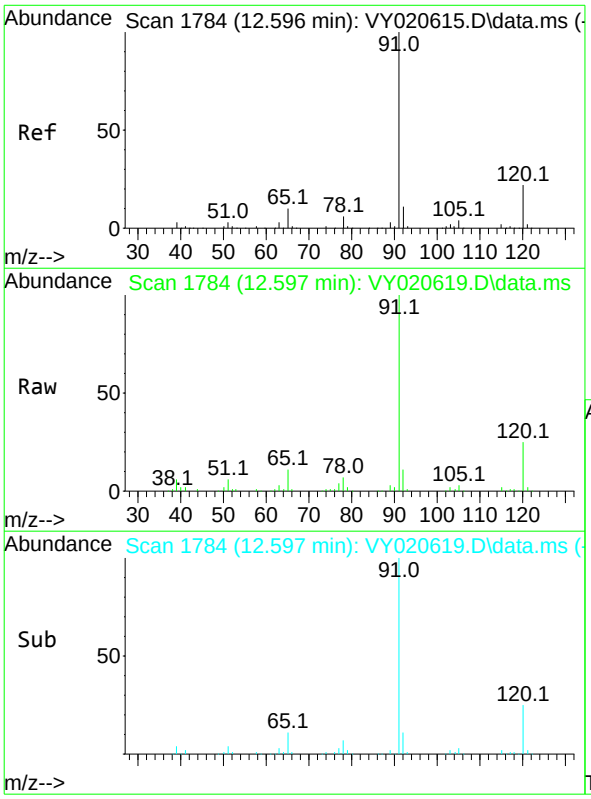
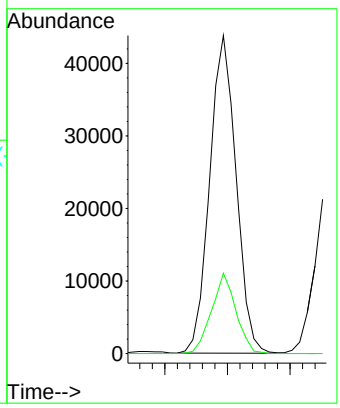
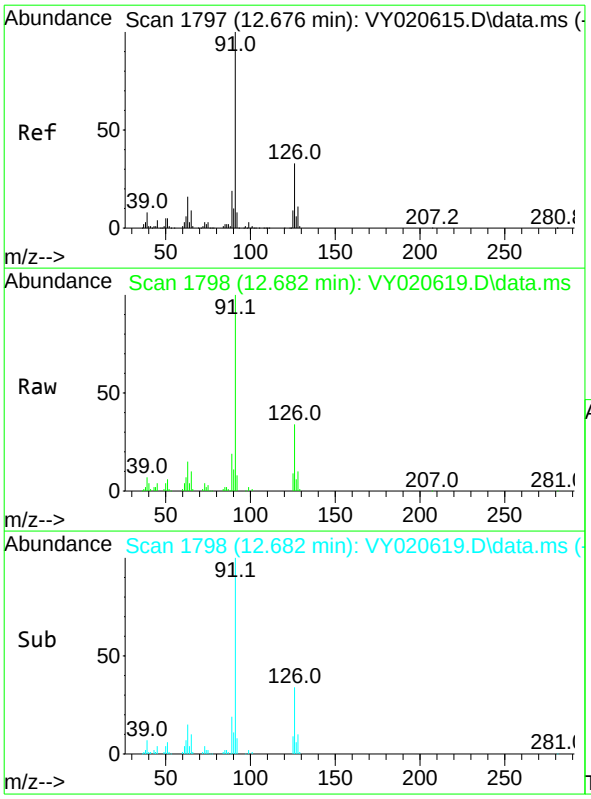



#78
n-propylbenzene
Concen: 5.047 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 91 Resp: 64140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.4 | 11.1 | 33.1 |

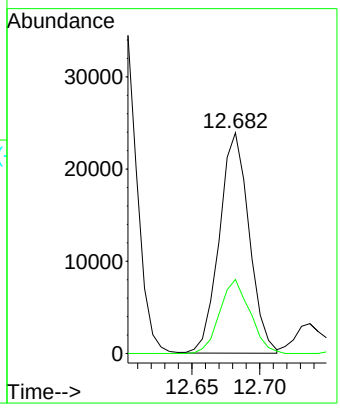





#79
2-Chlorotoluene
Concen: 5.106 ug/l
RT: 12.682 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 91 Resp: 36508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.1 | 16.6 | 49.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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Reviewed By :Mahesh Dadoda 12/18/2024
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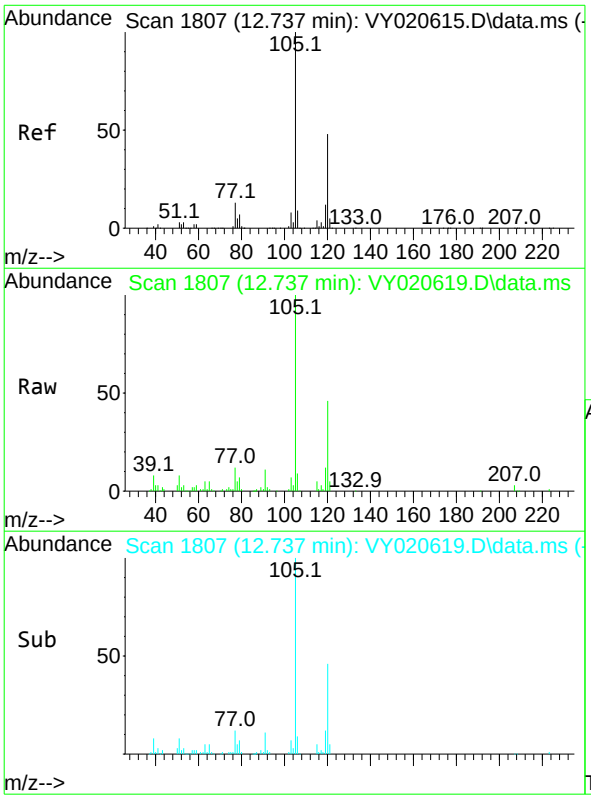
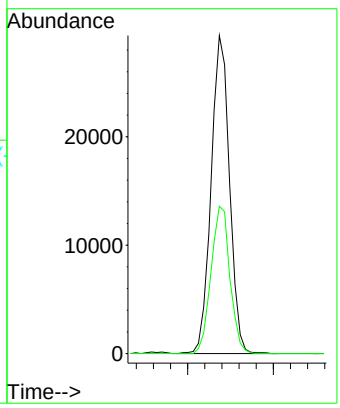
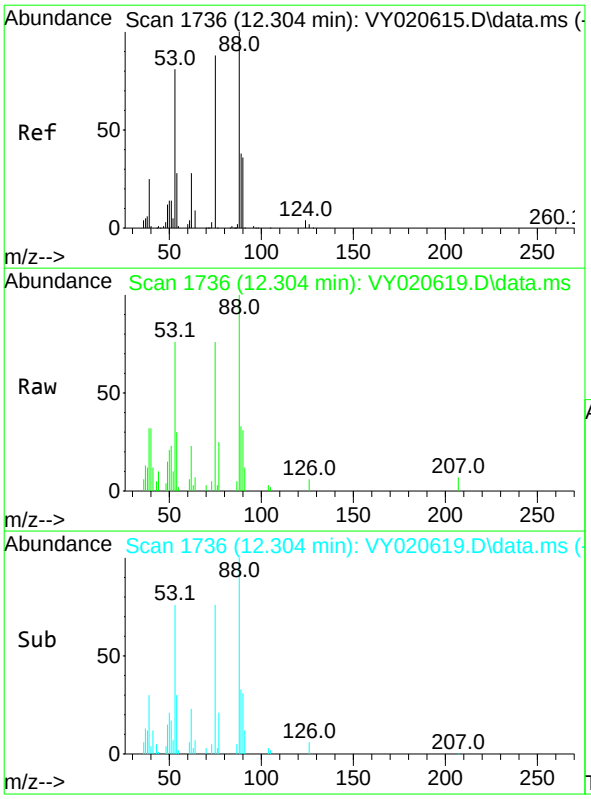



#80
1,3,5-Trimethylbenzene
Concen: 5.107 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:105 Resp: 43711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.5 | 23.9 | 71.7 |

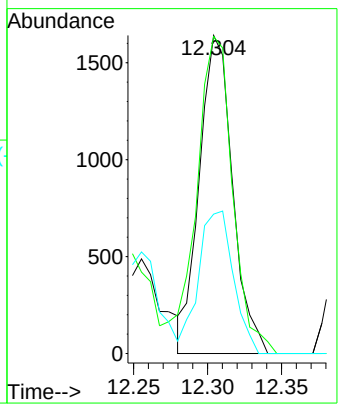





#81
trans-1,4-Dichloro-2-butene
Concen: 4.276 ug/l
RT: 12.304 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 75 Resp: 2558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 107.3 | 75.4 | 113.2 |
| 89 | 47.1 | 37.0 | 55.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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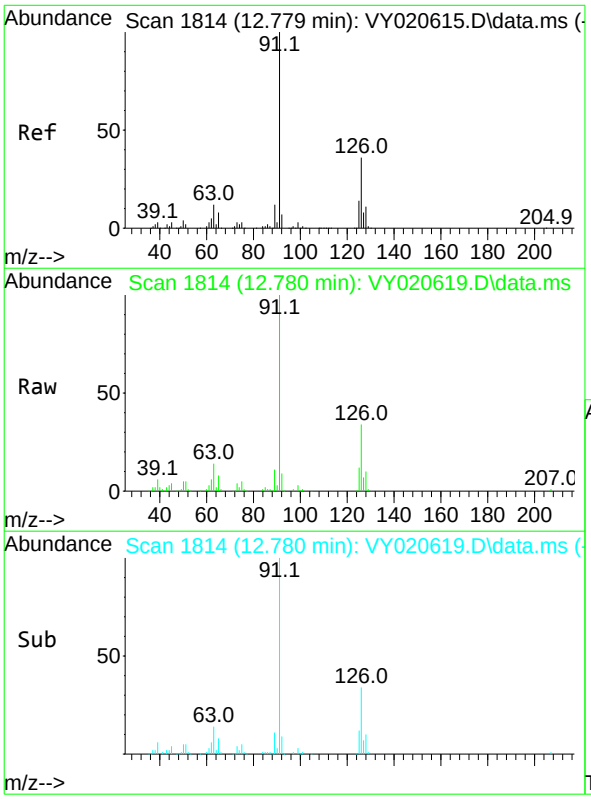
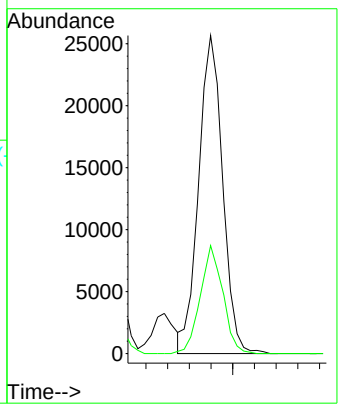
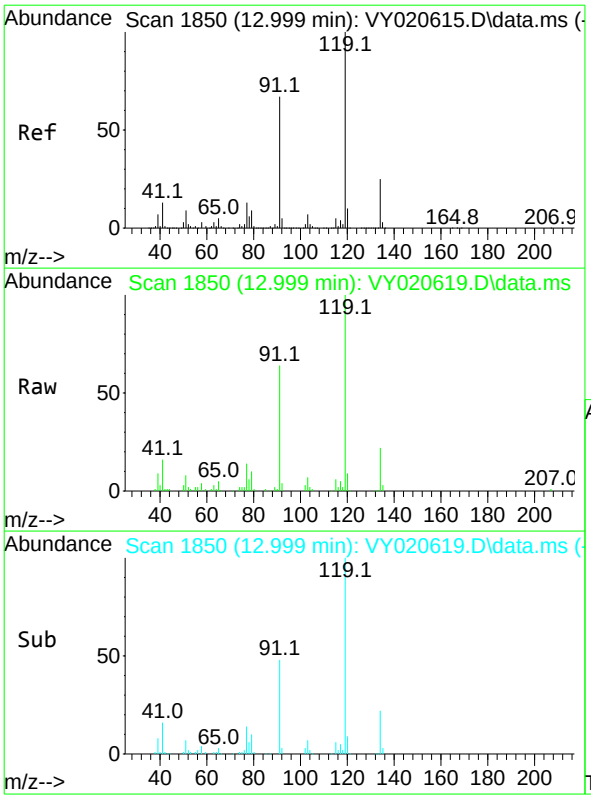



#82
4-Chlorotoluene
Concen: 5.318 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 91 Resp: 39447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.9 | 16.6 | 49.7 |

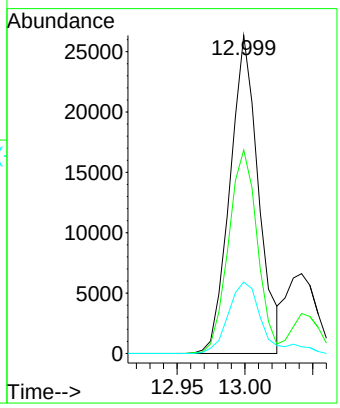





#83
tert-Butylbenzene
Concen: 4.972 ug/l
RT: 12.999 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:119 Resp: 38538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.6 | 32.9 | 98.6 |
| 134 | 25.0 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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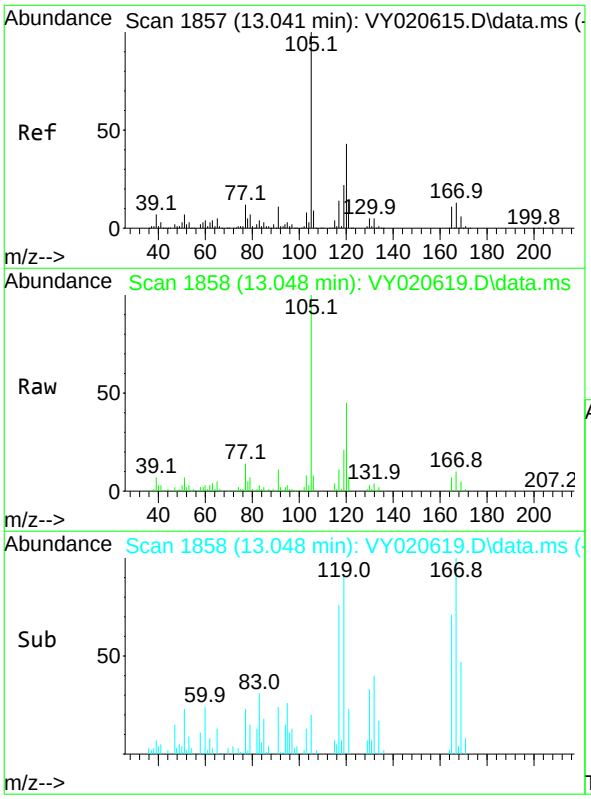
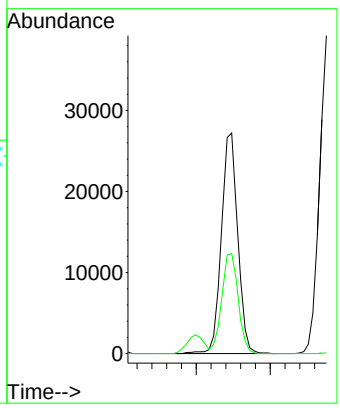
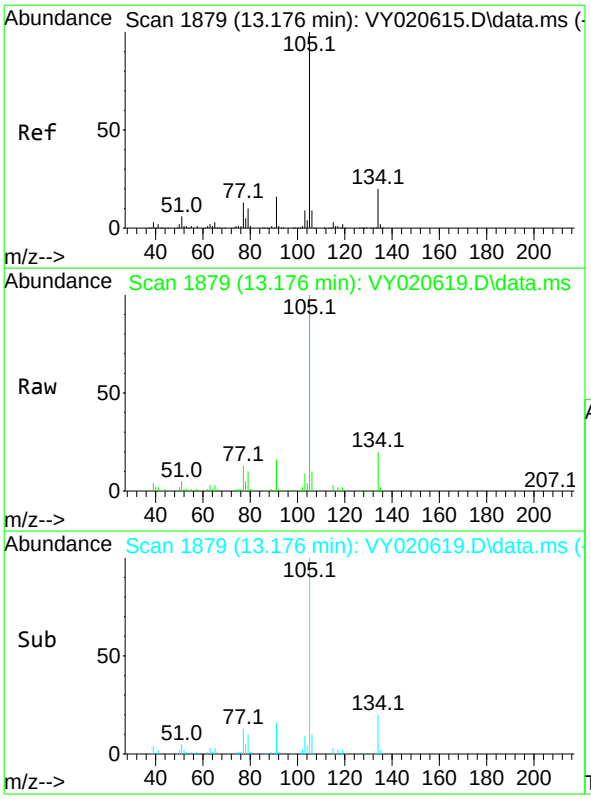



#84
1,2,4-Trimethylbenzene
Concen: 4.974 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:105 Resp: 41754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.5 | 21.8 | 65.4 |

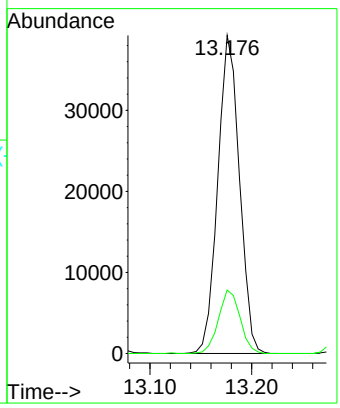





#85
sec-Butylbenzene
Concen: 5.154 ug/l
RT: 13.176 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:105 Resp: 58088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.0 | 30.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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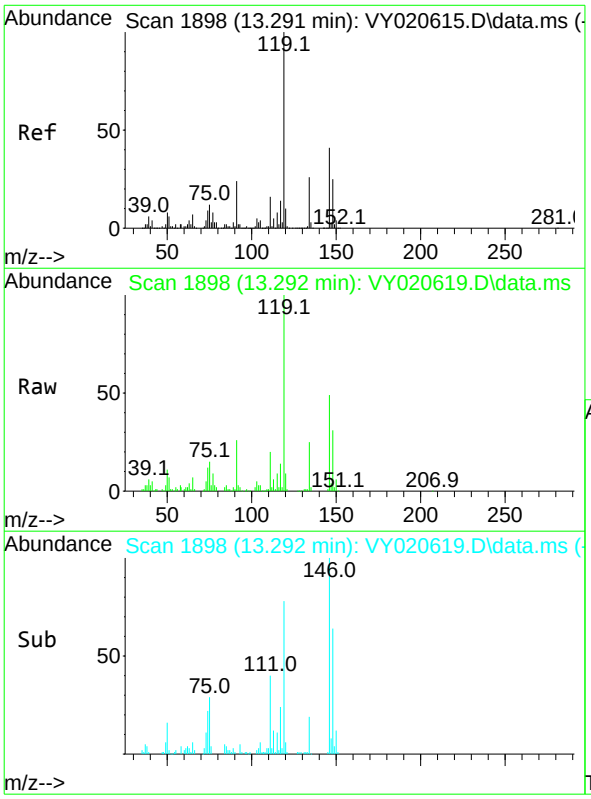
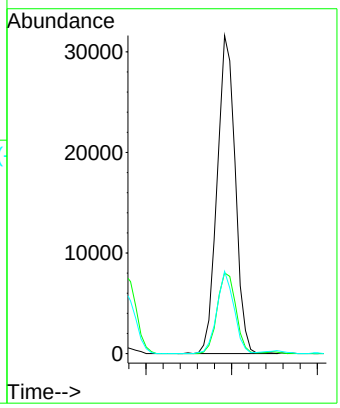
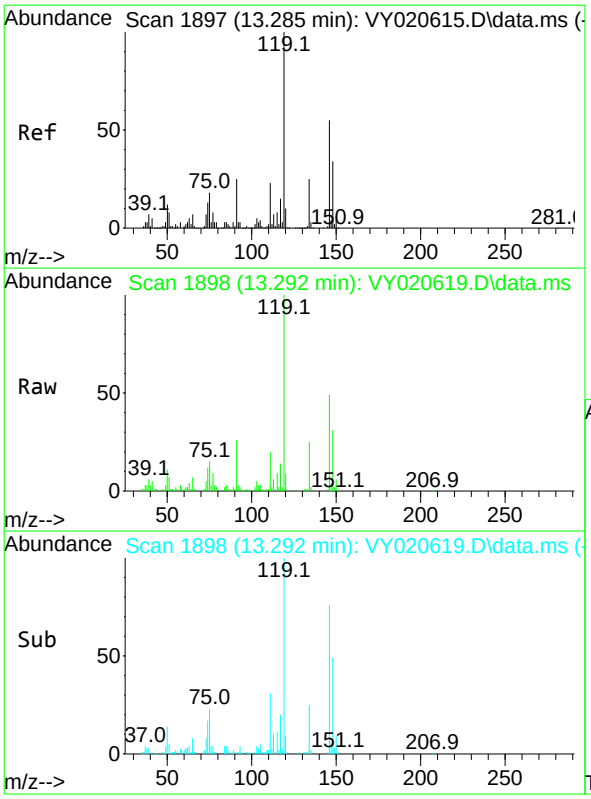



#86
p-Isopropyltoluene
Concen: 4.992 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:119 Resp: 46384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.1 | 12.9 | 38.6 |
| 91 | 24.5 | 12.1 | 36.3 |

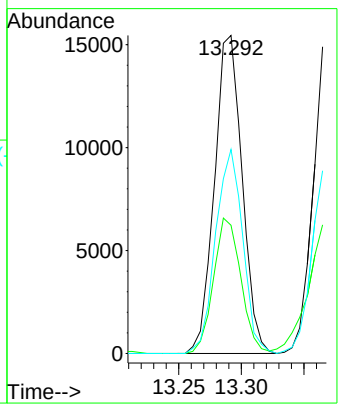





#87
1,3-Dichlorobenzene
Concen: 5.238 ug/l
RT: 13.292 min Scan# 18
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:146 Resp: 23757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.1 | 20.6 | 61.8 |
| 148 | 62.8 | 31.4 | 94.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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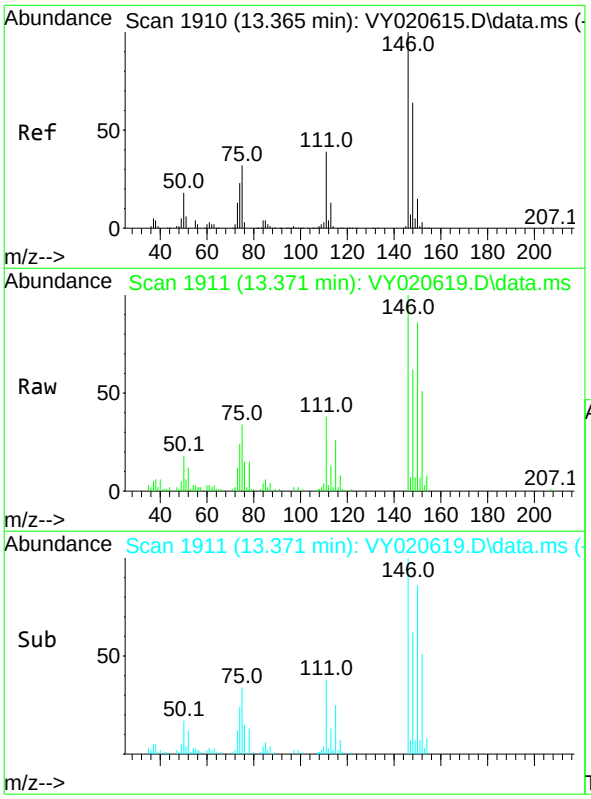
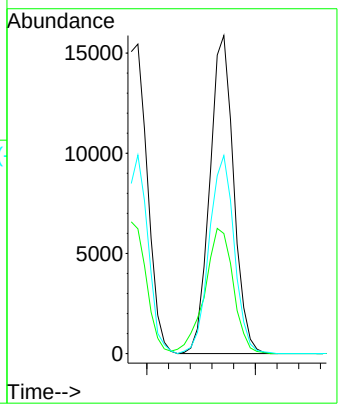
Supervised By :Semsettin Yesilyurt 12/18/2024

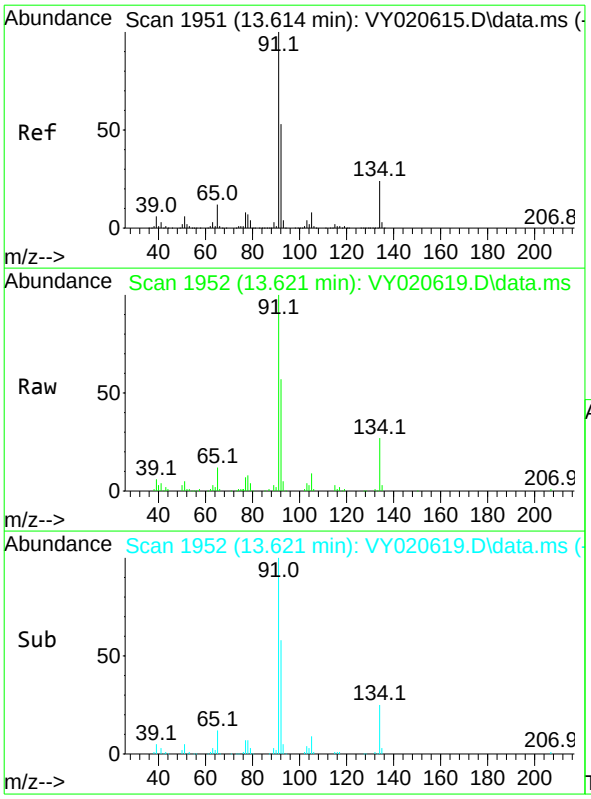



#88
1,4-Dichlorobenzene
Concen: 5.404 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:146 Resp: 24276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.2 | 19.6 | 58.7 |
| 148 | 65.4 | 31.9 | 95.5 |

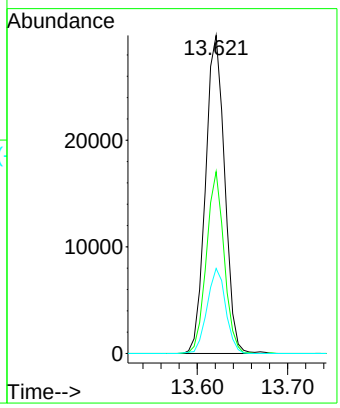





#89
n-Butylbenzene
Concen: 4.976 ug/l
RT: 13.621 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 91 Resp: 43817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.8 | 80.4 |
| 134 | 26.0 | 12.5 | 37.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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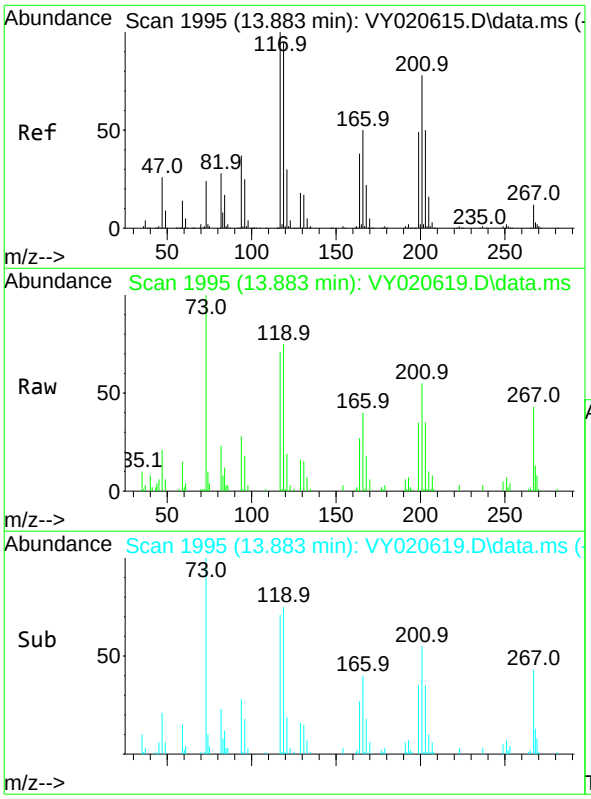
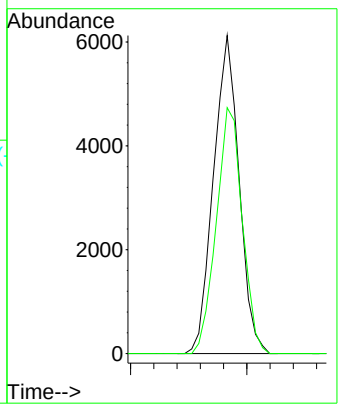
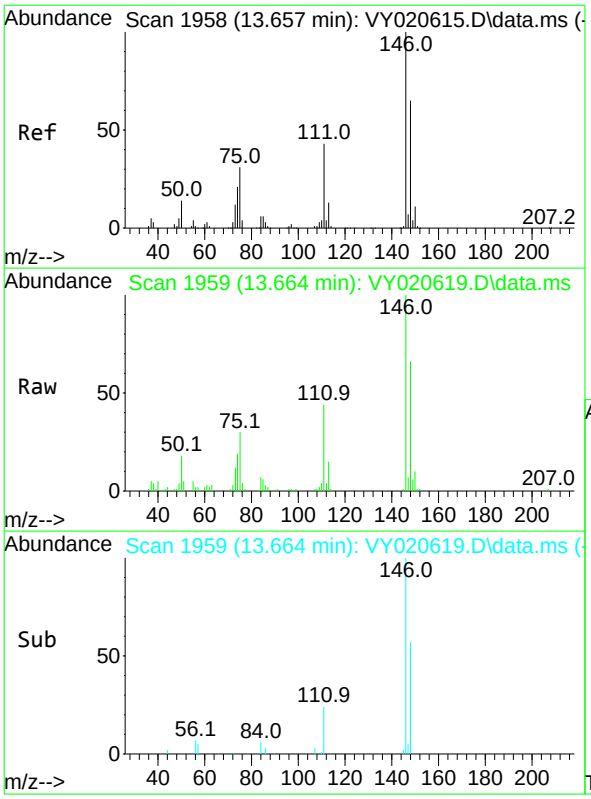



#90
Hexachloroethane
Concen: 5.084 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:117 Resp: 9361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.4 | 39.1 | 117.3 |

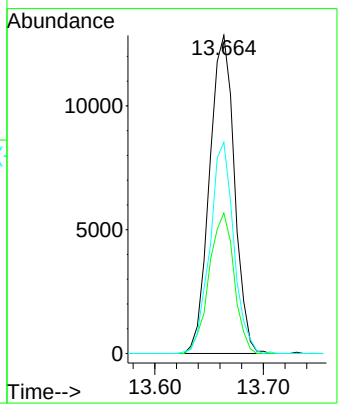





#91
1,2-Dichlorobenzene
Concen: 5.211 ug/l
RT: 13.664 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:146 Resp: 20478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.2 | 21.3 | 63.7 |
| 148 | 63.6 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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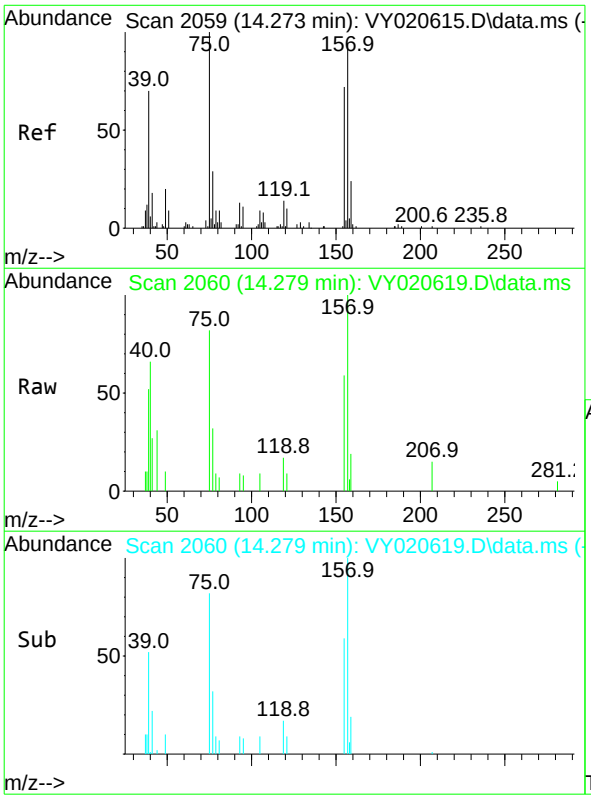
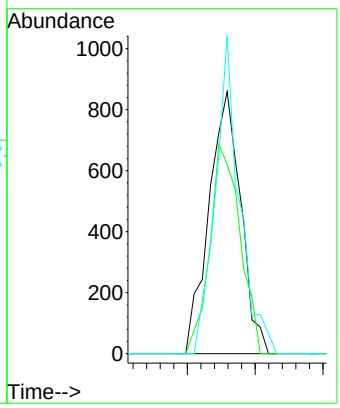
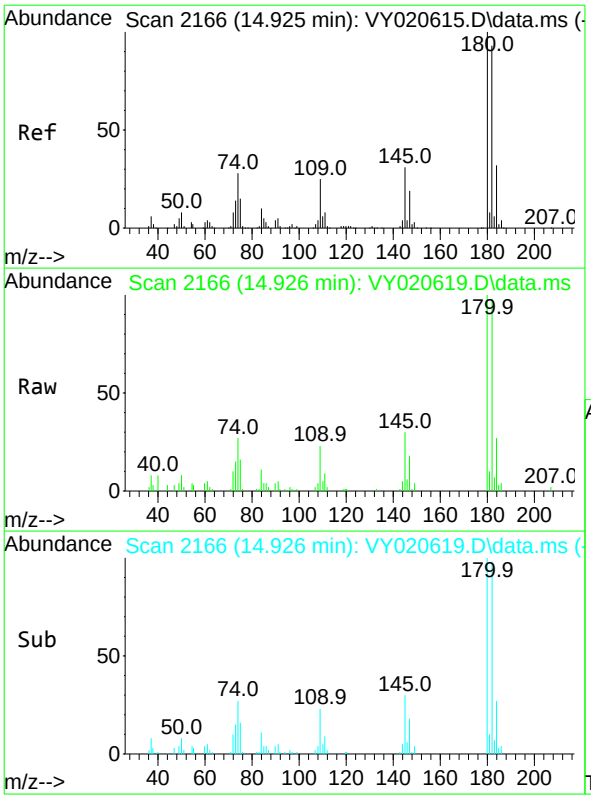



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.051 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 75 Resp: 1404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 75.6 | 41.1 | 123.3 |
| 157 | 92.2 | 52.9 | 158.8 |

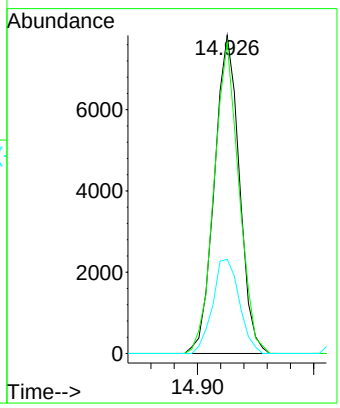





#93
1,2,4-Trichlorobenzene
Concen: 4.900 ug/l
RT: 14.926 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:180 Resp: 11648

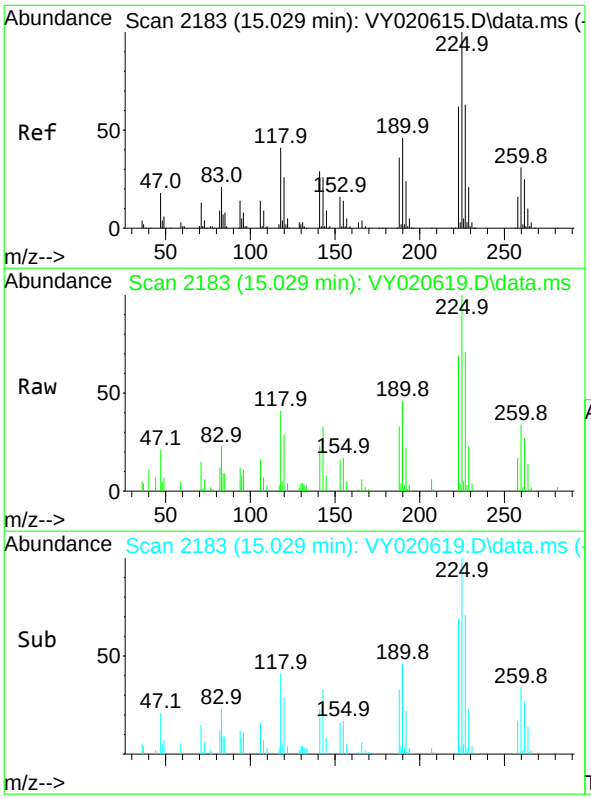
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.4 | 47.9 | 143.6 |
| 145 | 31.7 | 15.6 | 46.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

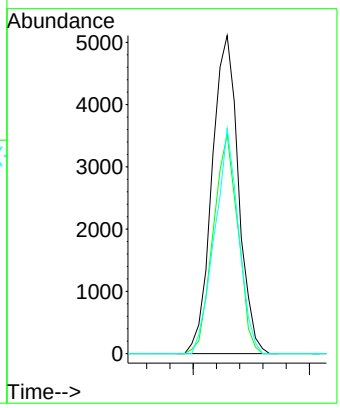
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024

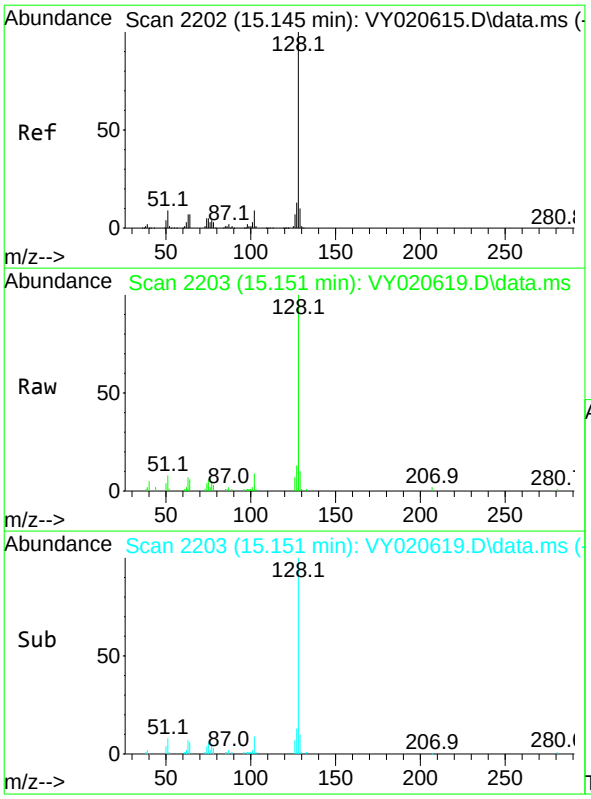



#94
Hexachlorobutadiene
Concen: 5.186 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:225 Resp: 8059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.5 | 31.8 | 95.3 |
| 227 | 64.1 | 32.2 | 96.6 |

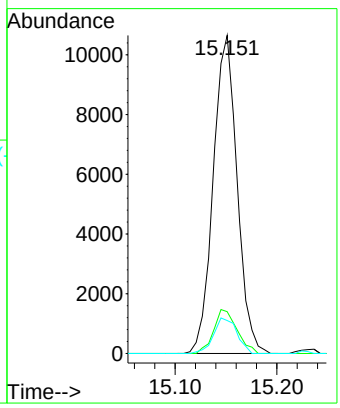





#95
Naphthalene
Concen: 4.261 ug/l
RT: 15.151 min Scan# 22
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:128 Resp: 17365

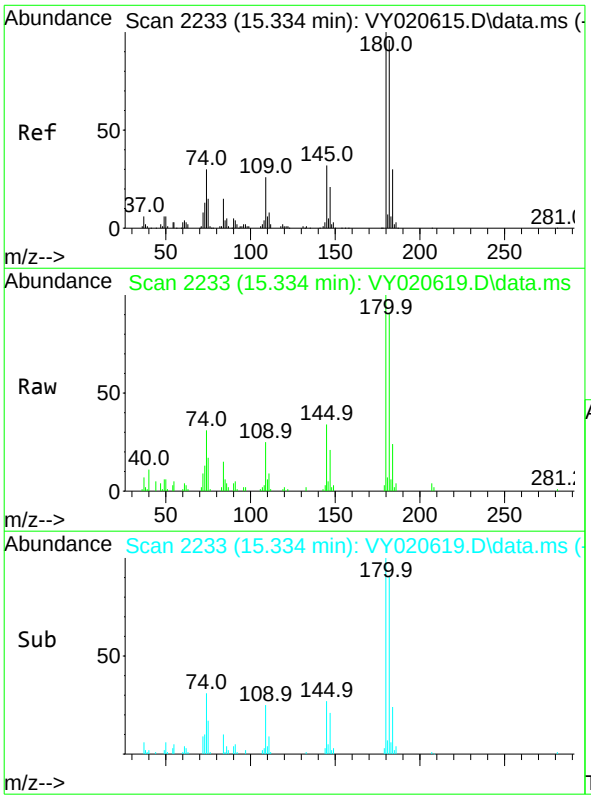
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.7 | 16.1 |
| 129 | 10.9 | 8.5 | 12.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

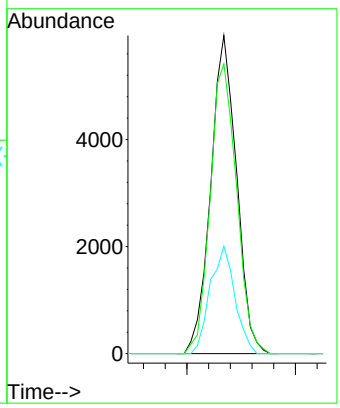
Reviewed By :Mahesh Dadoda 12/18/2024
Supervised By :Semsettin Yesilyurt 12/18/2024




#96
1,2,3-Trichlorobenzene
Concen: 4.890 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:180 Resp: 9821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.2 | 47.3 | 141.9 |
| 145 | 32.3 | 16.0 | 48.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**
Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 173629 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 261652 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 229207 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 127757 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 79812 | 41.971 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 83.940% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 82508 | 44.743 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 89.480% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 297999 | 46.169 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 92.340% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 108522 | 42.982 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 85.960% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 103417 | 47.686 | ug/l | 96 |
| 3) Chloromethane | 2.068 | 50 | 72696 | 45.240 | ug/l | 96 |
| 4) Vinyl Chloride | 2.202 | 62 | 72204 | 48.277 | ug/l | 100 |
| 5) Bromomethane | 2.599 | 94 | 46536 | 48.405 | ug/l | 95 |
| 6) Chloroethane | 2.733 | 64 | 44843 | 48.520 | ug/l | 95 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 147334 | 47.080 | ug/l | 100 |
| 8) Diethyl Ether | 3.458 | 74 | 48299 | 44.007 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 111288 | 49.613 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 125272 | 50.161 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.854 | 59 | 35896 | 166.993 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 109207 | 50.176 | ug/l | 99 |
| 13) Acrolein | 3.653 | 56 | 13043 | 145.056 | ug/l | 95 |
| 14) Allyl chloride | 4.385 | 41 | 194403 | 50.975 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 111135 | 211.661 | ug/l | 99 |
| 16) Acetone | 3.867 | 43 | 128884 | 343.570 | ug/l | 95 |
| 17) Carbon Disulfide | 4.110 | 76 | 357372 | 50.444 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 56965 | 44.029 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 254917 | 45.379 | ug/l | 98 |
| 20) Methylene Chloride | 4.616 | 84 | 110314 | 46.658 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 118791 | 48.656 | ug/l | 96 |
| 22) Diisopropyl ether | 6.019 | 45 | 373306 | 48.223 | ug/l | 96 |
| 23) Vinyl Acetate | 5.964 | 43 | 993429 | 226.581 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 221322 | 48.802 | ug/l | 100 |
| 25) 2-Butanone | 6.897 | 43 | 162705 | 230.232 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 199229 | 46.471 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 135394 | 48.202 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 78629 | 51.402 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 90590 | 203.060 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 227671 | 49.995 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 199127 | 45.921 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 203477 | 48.837 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 166171 | 49.418 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 67205 | 42.490 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 185268 | 49.800 | ug/l | 99 |
| 39) Methylcyclohexane | 9.110 | 83 | 214365 | 48.913 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 486468 | 49.357 | ug/l | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 39828 | 47.631 | ug/l | # | 86 |
| 42) 1,2-Dichloroethane | 8.159 | 62 | 122520 | 46.869 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 130339 | 43.528 | ug/l | # | 88 |
| 44) Trichloroethene | 8.866 | 130 | 120014 | 49.555 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 112171 | 48.695 | ug/l | | 98 |
| 46) Dibromomethane | 9.232 | 93 | 56323 | 46.265 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.421 | 83 | 158529 | 48.208 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 63016 | 44.268 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.232 | 88 | 11394 | 816.119 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 331396 | 209.670 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 300584 | 49.073 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 146498 | 47.810 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 178584 | 49.184 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 73962 | 45.952 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.439 | 69 | 108638 | 46.525 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 134515 | 46.882 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 239347 | 243.610 | ug/l | | 100 |
| 59) 2-Hexanone | 10.756 | 43 | 240324 | 236.822 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 101431 | 47.121 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 68798 | 45.952 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 106990 | 49.626 | ug/l | | 94 |
| 65) Chlorobenzene | 11.438 | 112 | 313945 | 48.986 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 107564 | 49.083 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 588990 | 49.815 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 437108 | 99.430 | ug/l | | 100 |
| 69) o-Xylene | 11.957 | 106 | 203316 | 49.568 | ug/l | | 98 |
| 70) Styrene | 11.969 | 104 | 341470 | 49.827 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 56002 | 45.451 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 556414 | 49.908 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 118269 | 45.328 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 81117 | 44.824 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 60828m | 45.834 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 117217 | 48.267 | ug/l | | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 668577 | 49.775 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 375047 | 49.628 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 452266 | 49.995 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 28650 | 45.313 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 383617 | 48.929 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 405285 | 49.469 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 442582 | 49.877 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 589060 | 49.451 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 492898 | 50.187 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 233241 | 48.653 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 227374 | 47.888 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.621 | 91 | 472143 | 50.725 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 96035 | 49.342 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.658 | 146 | 200049 | 48.162 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 12169 | 41.418 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 124084 | 49.388 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 84375 | 51.372 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 199622 | 46.344 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 103298 | 48.662 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

ICAL Form

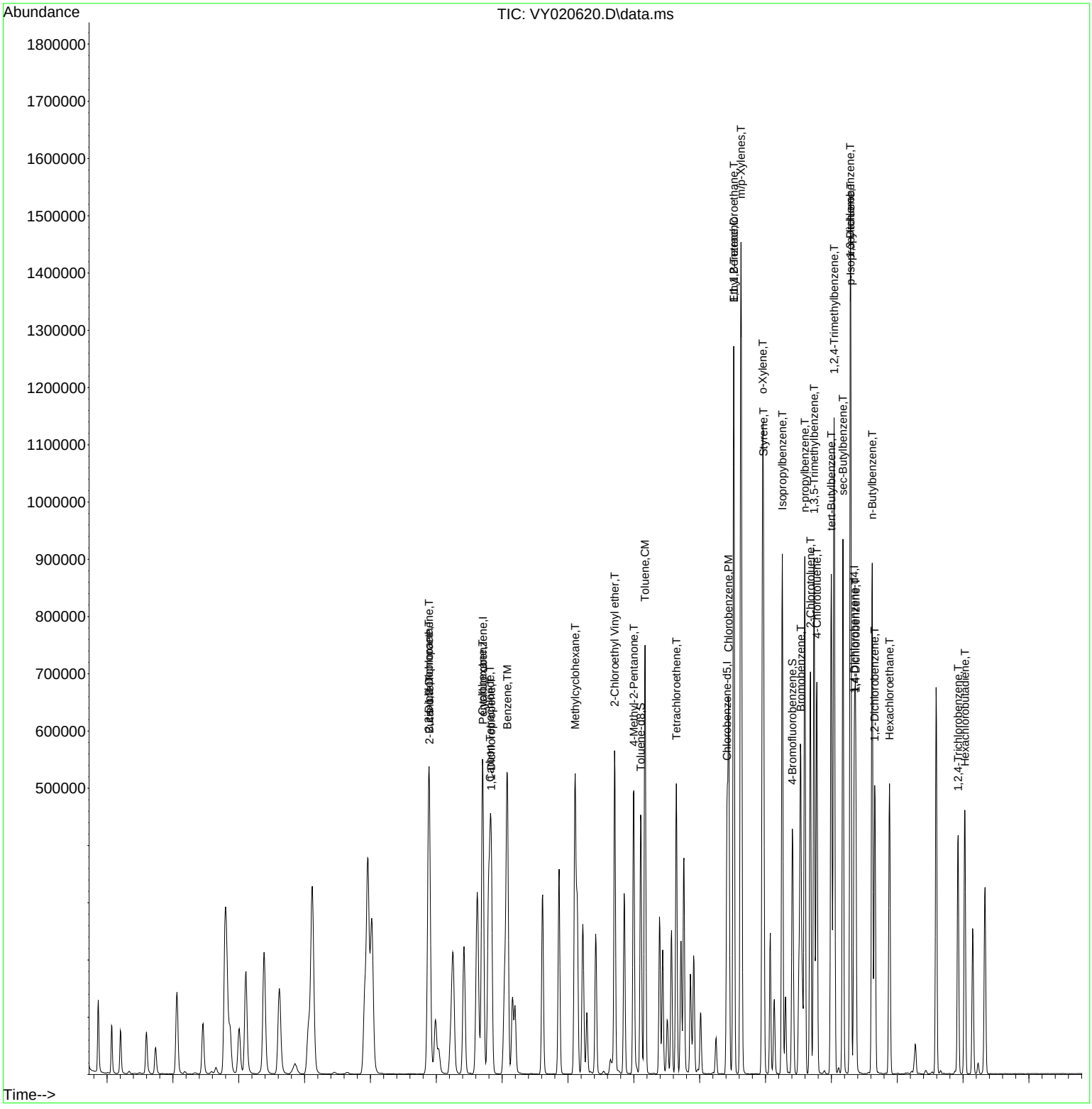
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

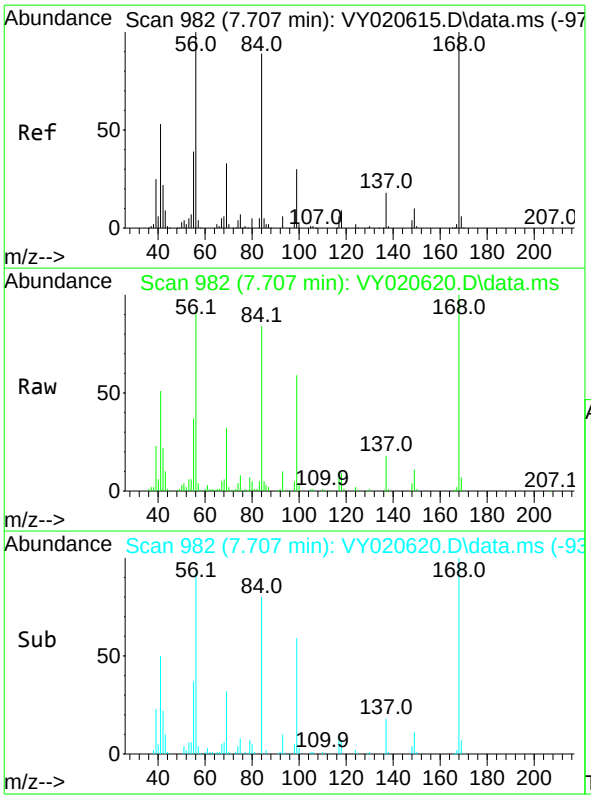
Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

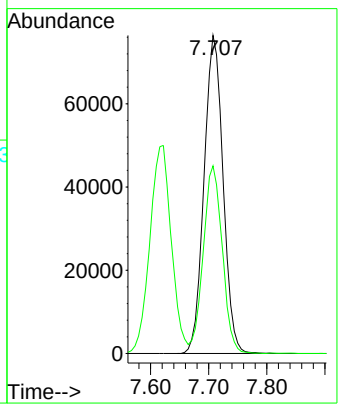





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:168 Resp: 173629

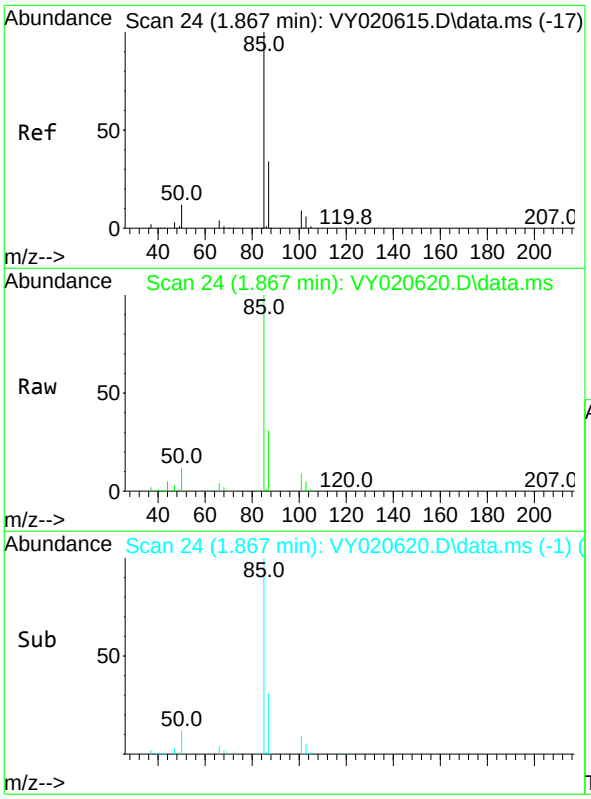
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.9 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

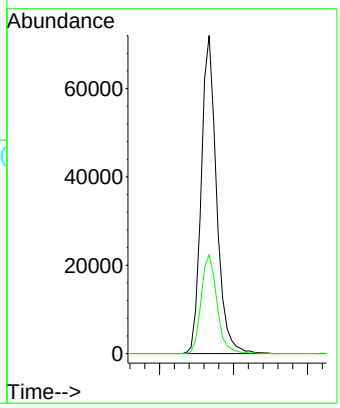
Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

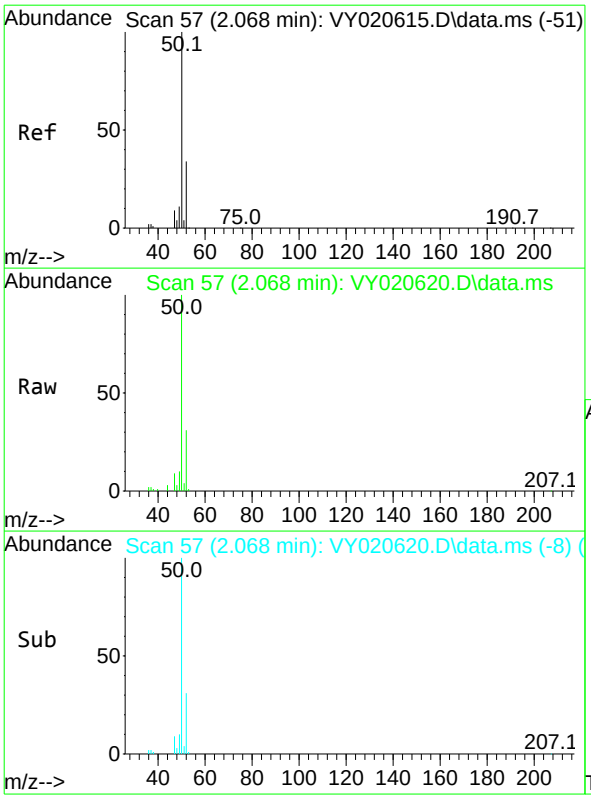



#2
Dichlorodifluoromethane
Concen: 47.686 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 85 Resp: 103417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.1 | 16.8 | 50.3 |

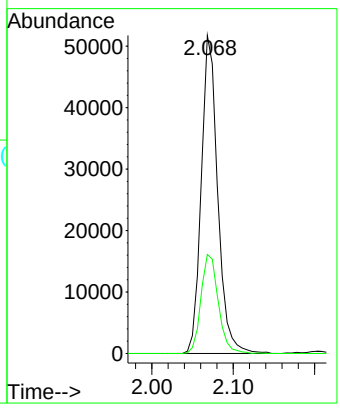





#3
Chloromethane
Concen: 45.240 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 50 Resp: 72696

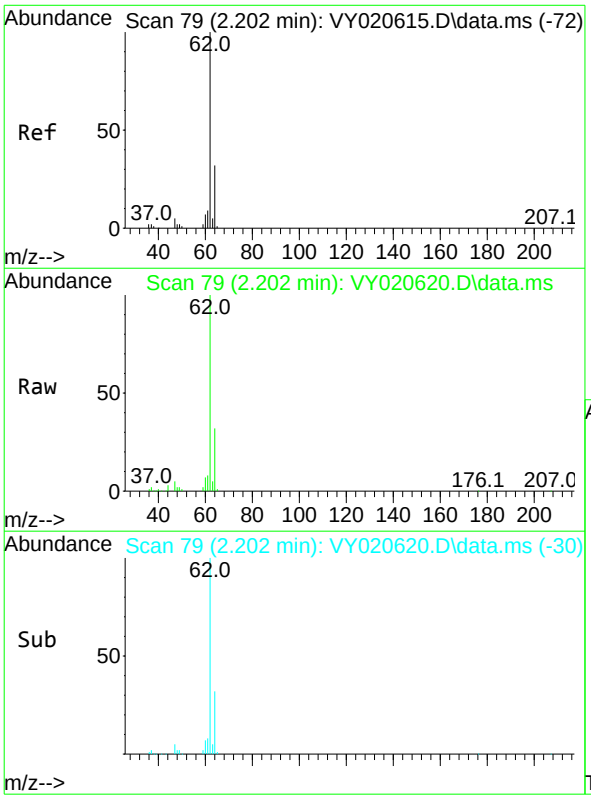
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.1 | 26.8 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

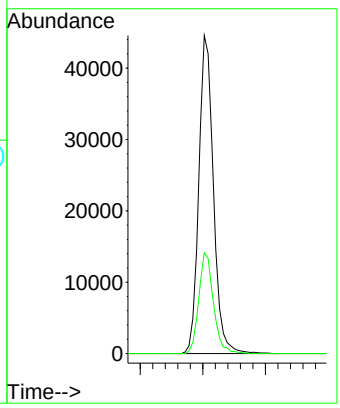
Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

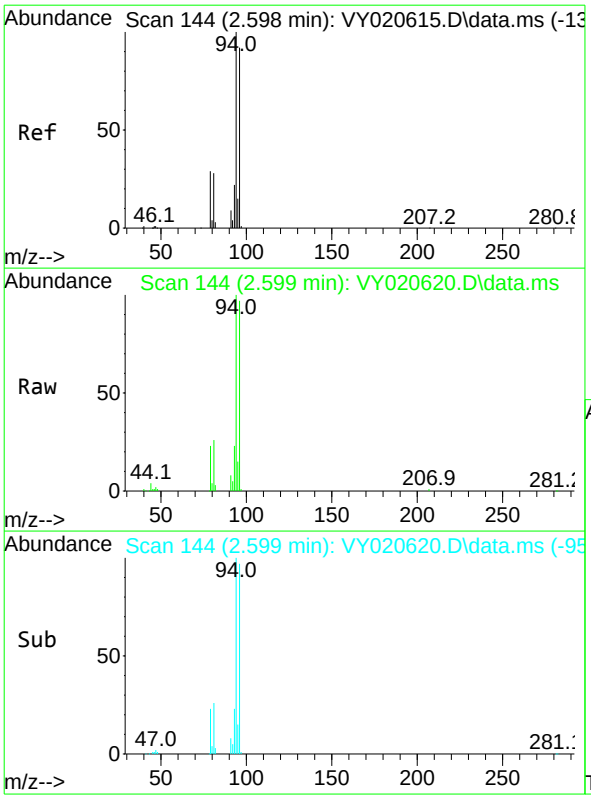



#4
Vinyl Chloride
Concen: 48.277 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 62 Resp: 72204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.3 | 37.9 |

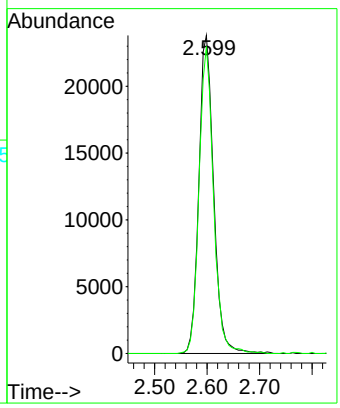





#5
Bromomethane
Concen: 48.405 ug/l
RT: 2.599 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 94 Resp: 46536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.5 | 73.8 | 110.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations**
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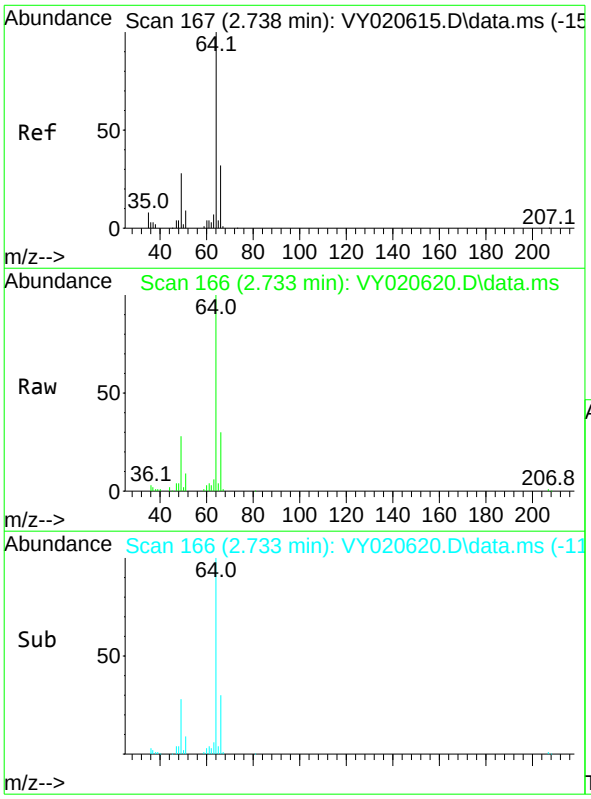
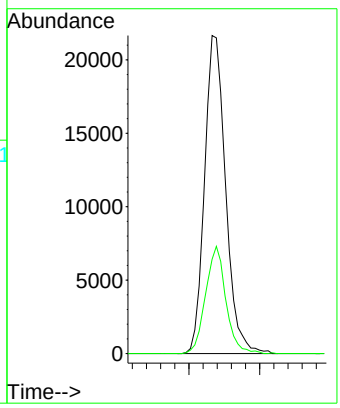
Supervised By :Mahesh Dadoda 12/18/2024

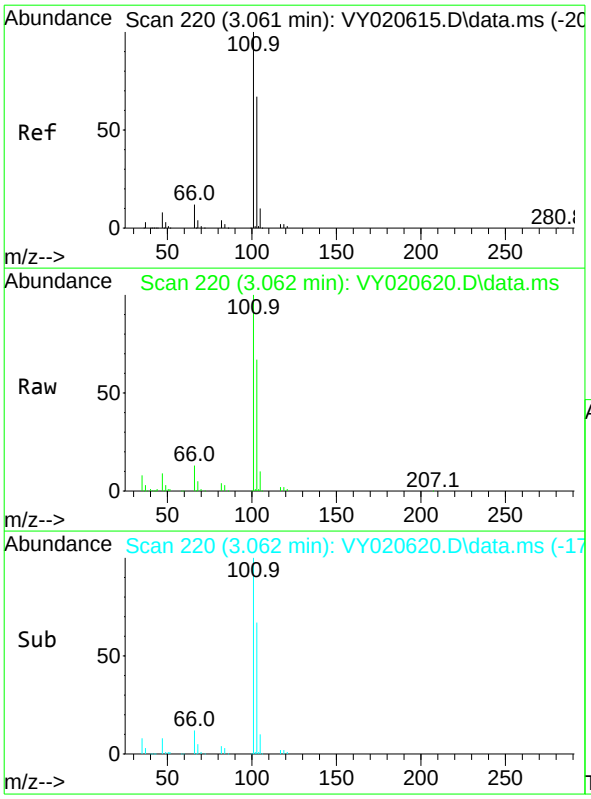



#6
Chloroethane
Concen: 48.520 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 64 Resp: 44843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.7 | 25.8 | 38.6 |

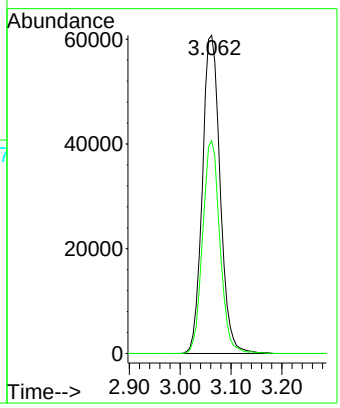





#7
Trichlorofluoromethane
Concen: 47.080 ug/l
RT: 3.062 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:101 Resp: 147334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.9 | 53.4 | 80.0 |

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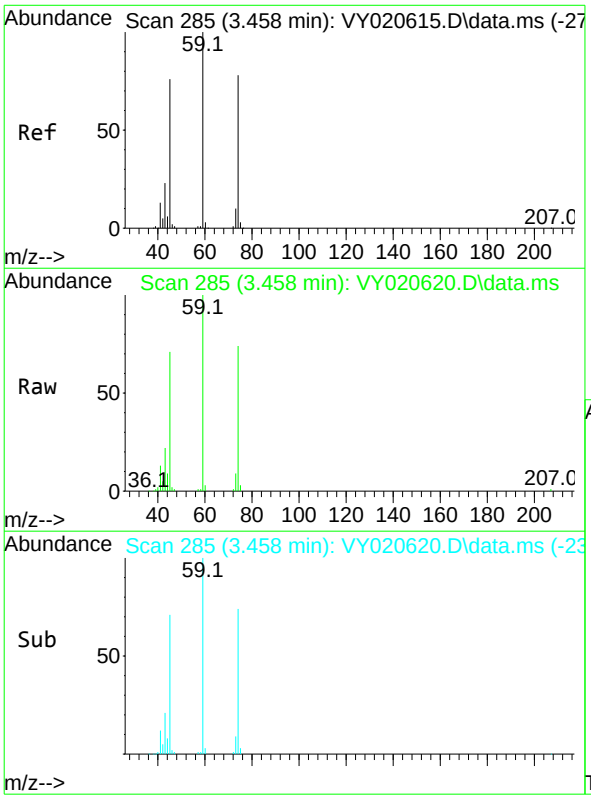
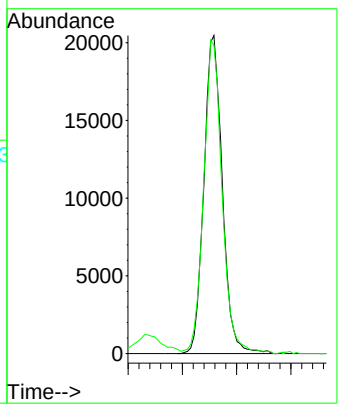
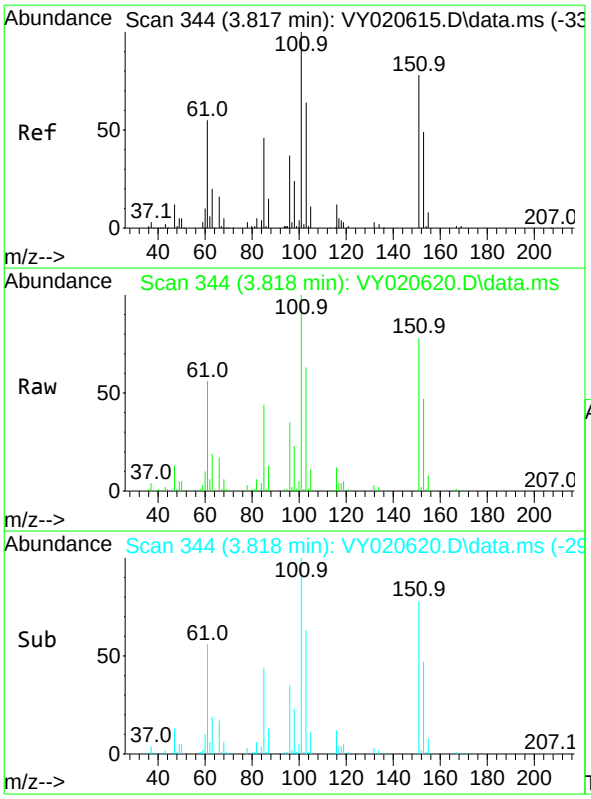



#8
Diethyl Ether
Concen: 44.007 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 74 Resp: 48299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.8 | 49.0 | 147.2 |

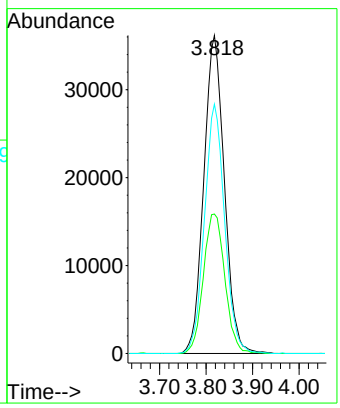





#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.613 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:101 Resp: 111288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.8 | 36.6 | 54.8 |
| 151 | 76.9 | 61.5 | 92.3 |

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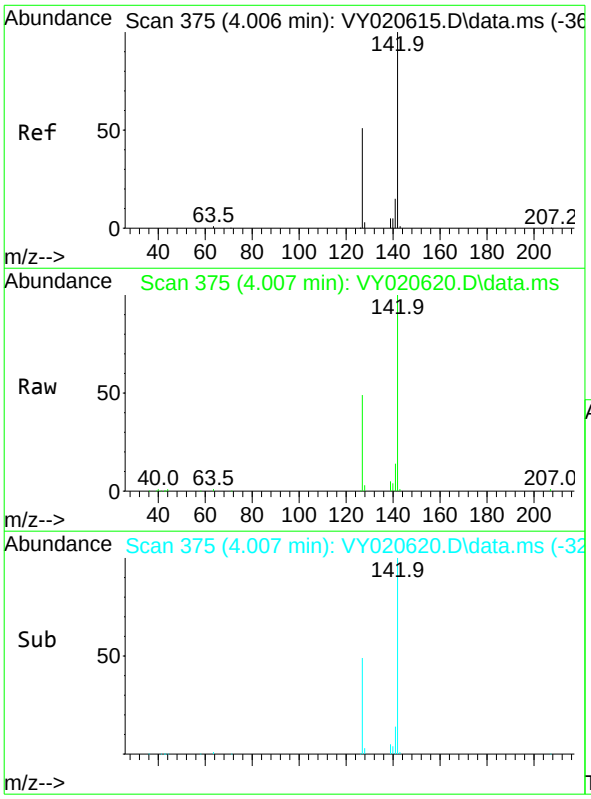
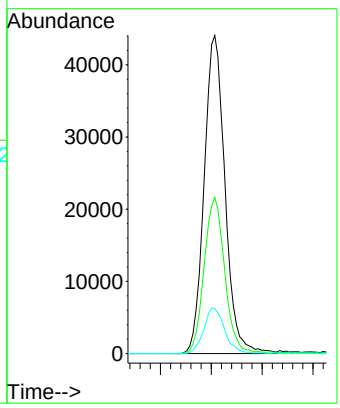
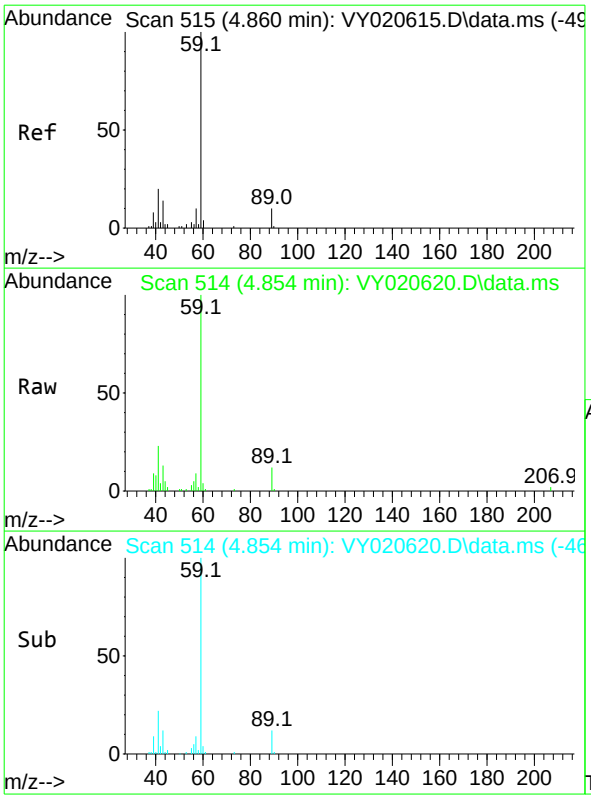



#10
Methyl Iodide
Concen: 50.161 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:142 Resp: 125272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 48.6 | 40.6 | 61.0 |
| 141 | 14.5 | 11.7 | 17.5 |

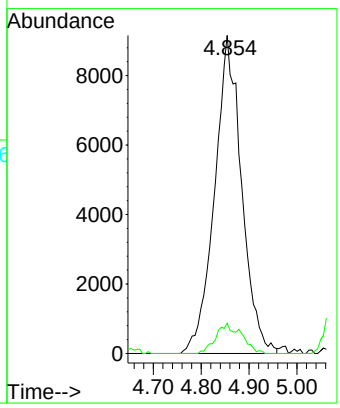





#11
Tert butyl alcohol
Concen: 166.993 ug/l
RT: 4.854 min Scan# 51
Delta R.T. -0.006 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 59 Resp: 35896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.0 | 7.4 | 11.0 |

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MSVOA_Y
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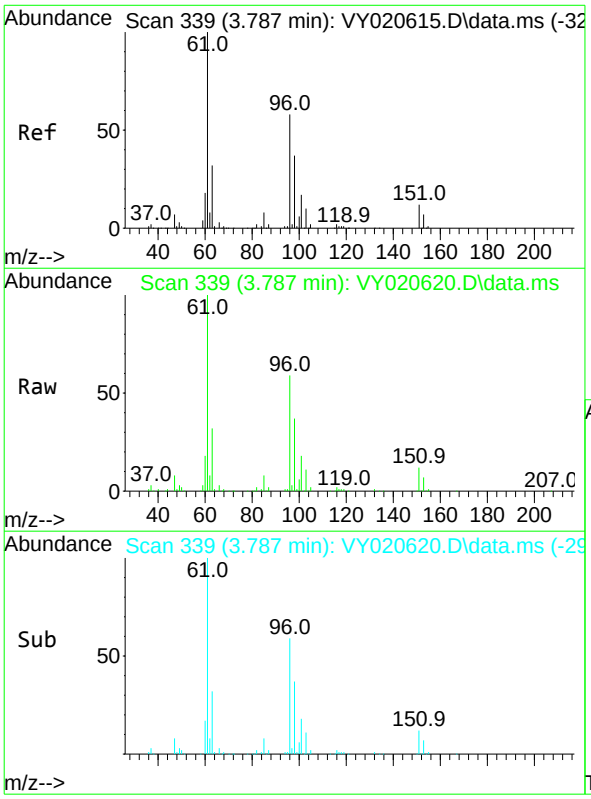
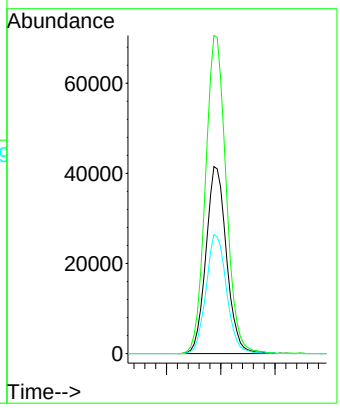
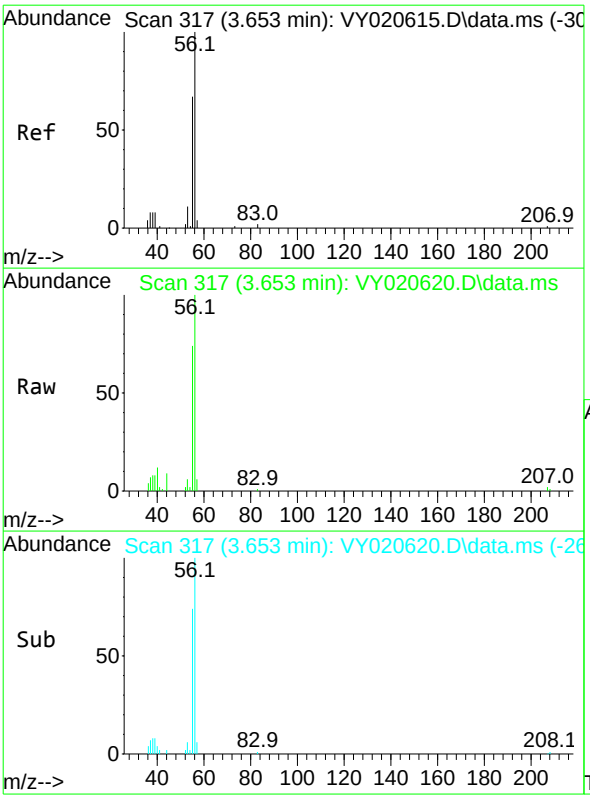



#12
1,1-Dichloroethene
Concen: 50.176 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 96 Resp: 109207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.1 | 136.9 | 205.3 |
| 98 | 63.7 | 50.2 | 75.4 |

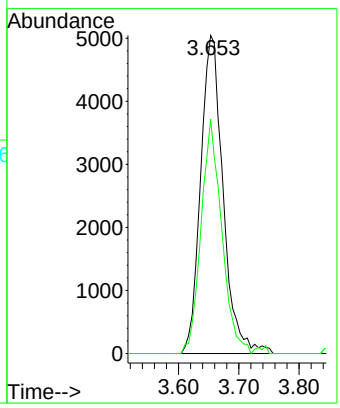





#13
Acrolein
Concen: 145.056 ug/l
RT: 3.653 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 56 Resp: 13043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 67.6 | 57.5 | 86.3 |

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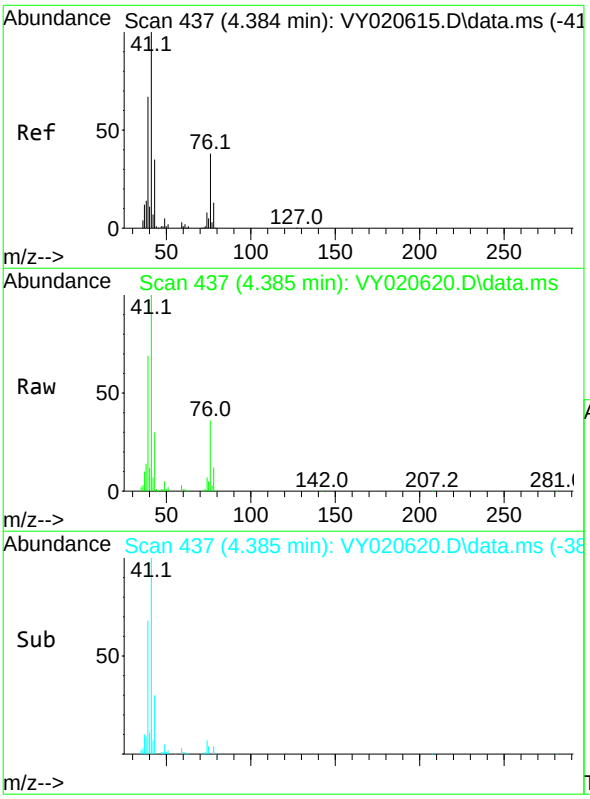
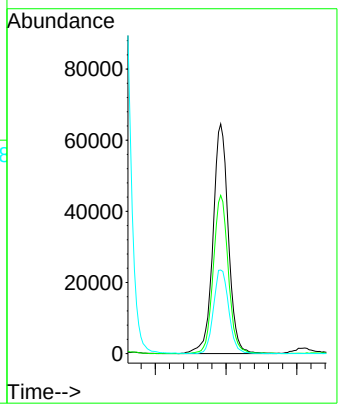
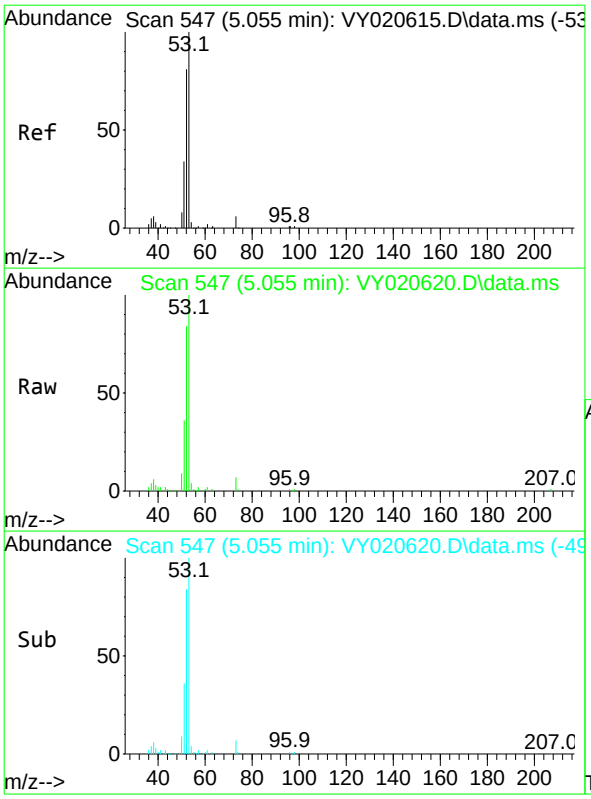



#14
Allyl chloride
Concen: 50.975 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 41 Resp: 194403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.2 | 53.0 | 79.4 |
| 76 | 36.1 | 29.5 | 44.3 |






#15
Acrylonitrile
Concen: 211.661 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 53 Resp: 111135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.3 | 64.5 | 96.7 |
| 51 | 36.6 | 29.4 | 44.0 |

**Instrument :**
MSVOA_Y
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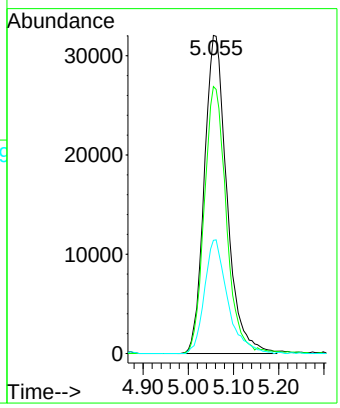
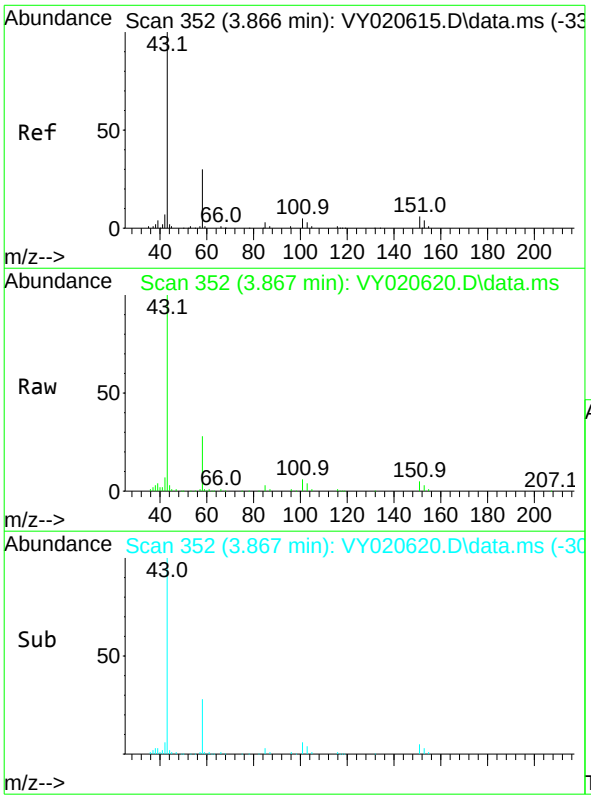
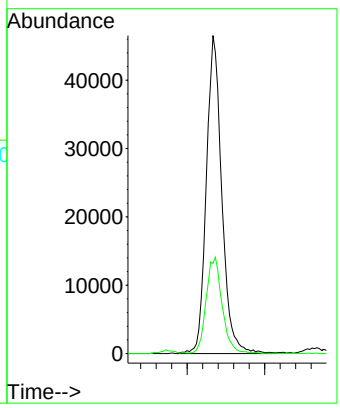


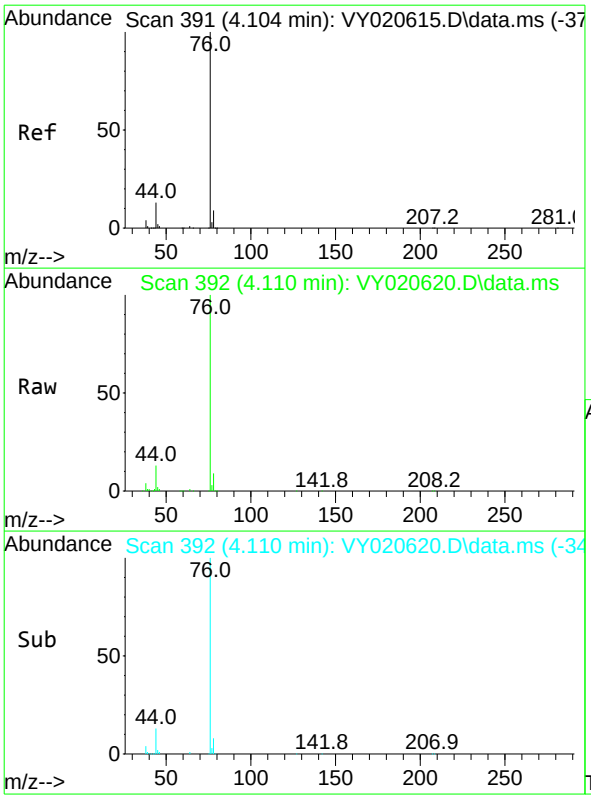




#16
Acetone
Concen: 343.570 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.001 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 128884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.4 | 25.0 | 37.6 |

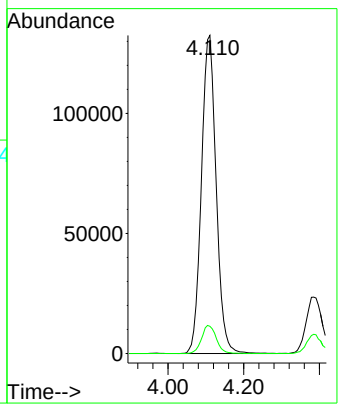





#17
Carbon Disulfide
Concen: 50.444 ug/l
RT: 4.110 min Scan# 39
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 76 Resp: 357372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.5 | 7.2 | 10.8 |

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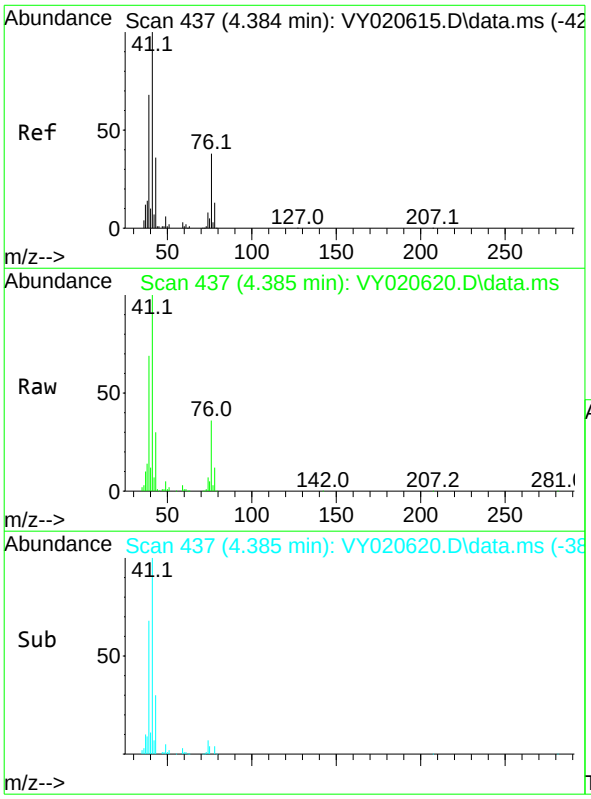
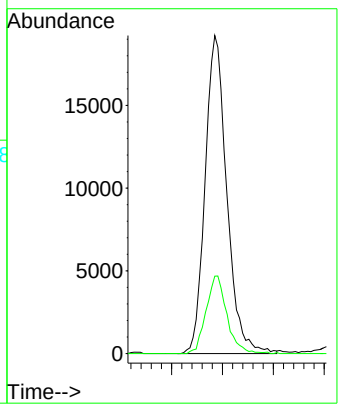
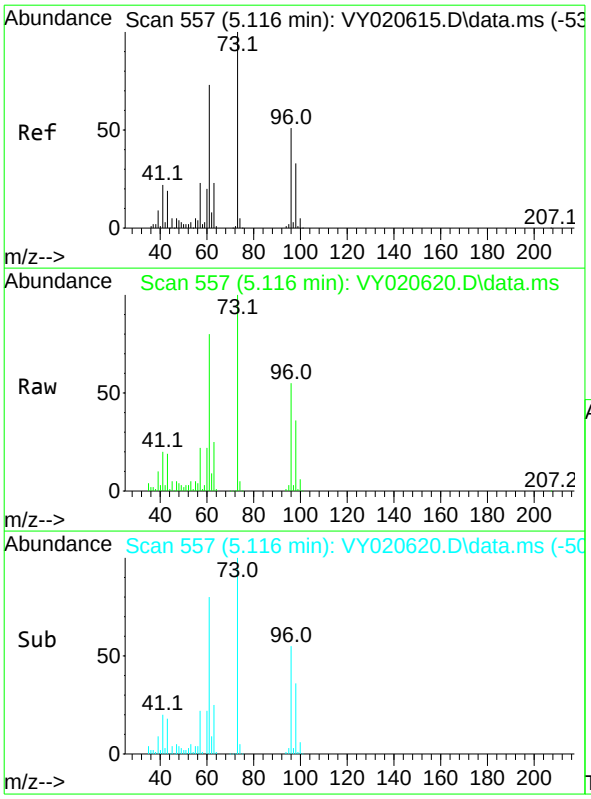



#18
Methyl Acetate
Concen: 44.029 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 56965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.5 | 19.2 | 28.8 |

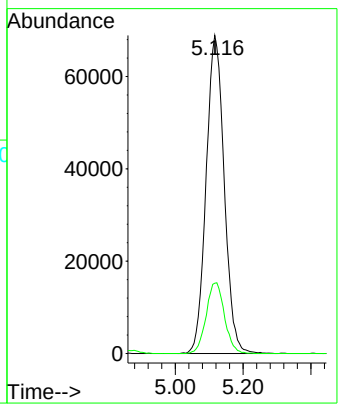





#19
Methyl tert-butyl Ether
Concen: 45.379 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 73 Resp: 254917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 18.5 | 27.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

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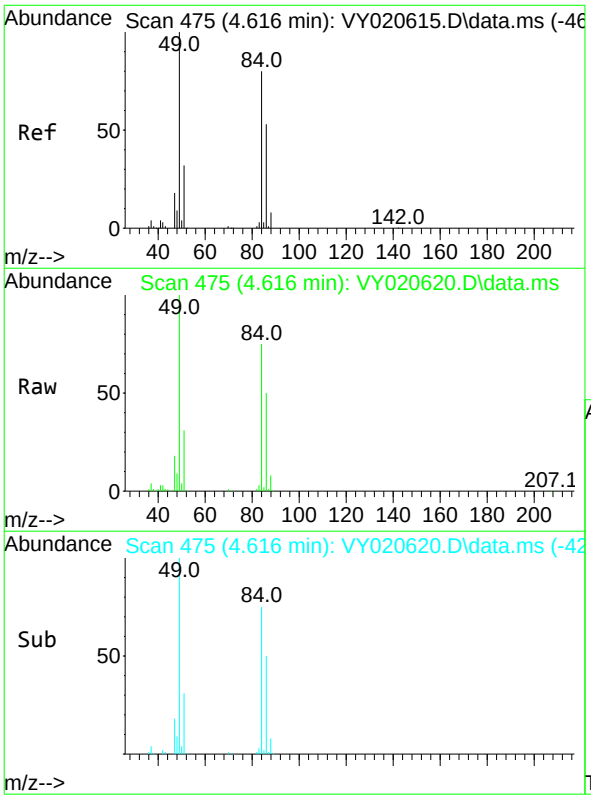
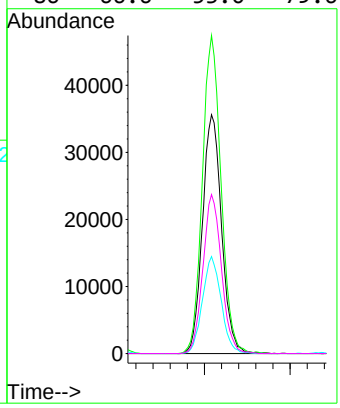
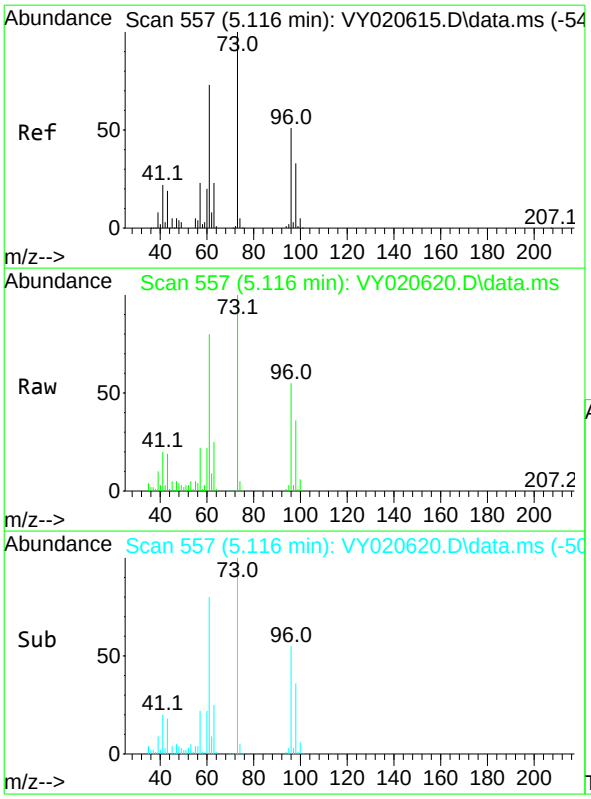



#20
Methylene Chloride
Concen: 46.658 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 84 Resp: 110314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 133.2 | 100.7 | 151.1 |
| 51 | 40.6 | 32.2 | 48.2 |
| 86 | 66.6 | 53.0 | 79.6 |

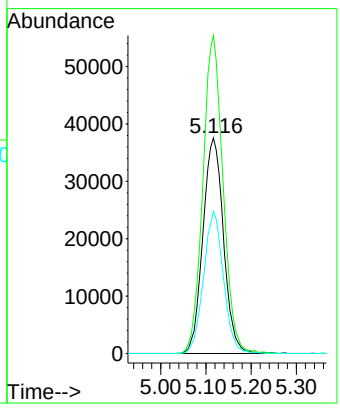





#21
trans-1,2-Dichloroethene
Concen: 48.656 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 96 Resp: 118791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.4 | 113.7 | 170.5 |
| 98 | 66.0 | 51.7 | 77.5 |




**Instrument :**
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ICVVY121724

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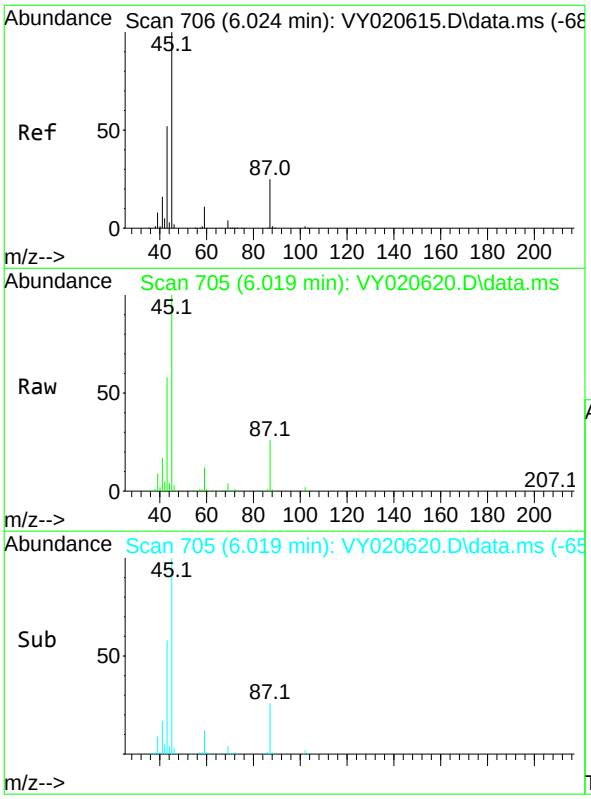
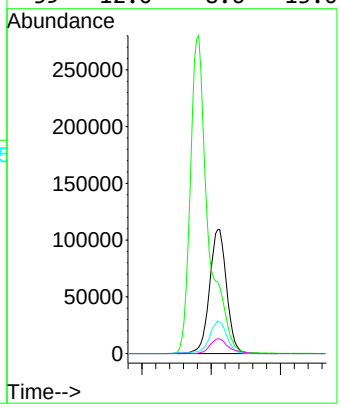
Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

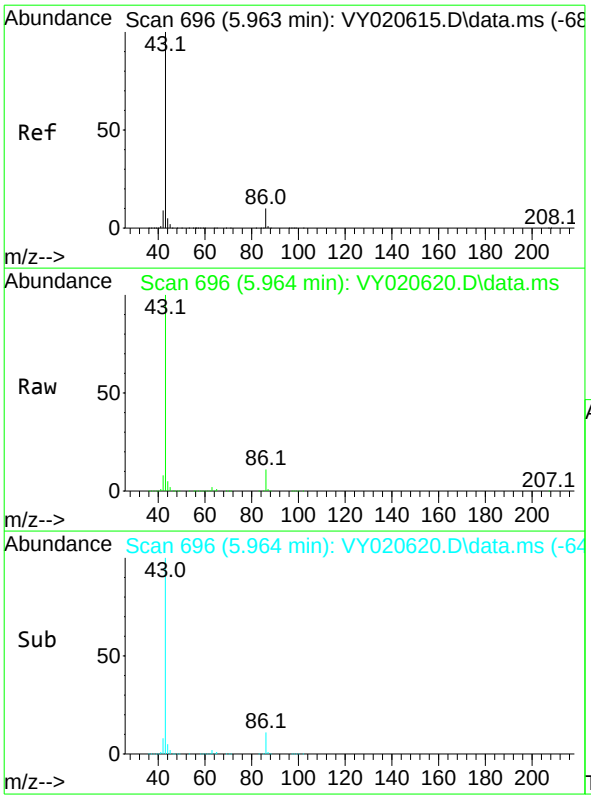



#22
Diisopropyl ether
Concen: 48.223 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 45 Resp: 373306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.4 | 42.6 | 64.0 |
| 87 | 26.3 | 20.6 | 31.0 |
| 59 | 12.0 | 8.6 | 13.0 |

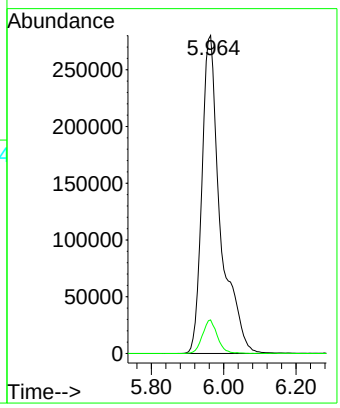





#23
Vinyl Acetate
Concen: 226.581 ug/l
RT: 5.964 min Scan# 69
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 993429

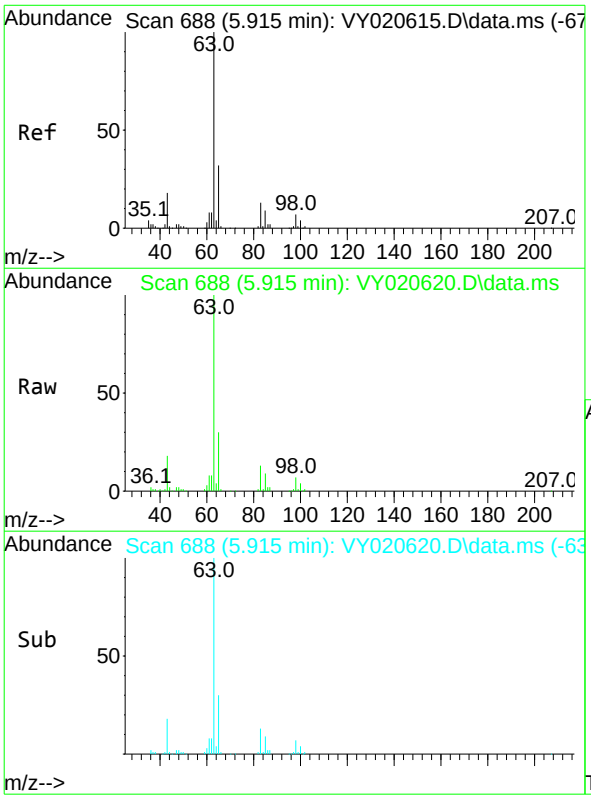
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.6 | 8.1 | 12.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

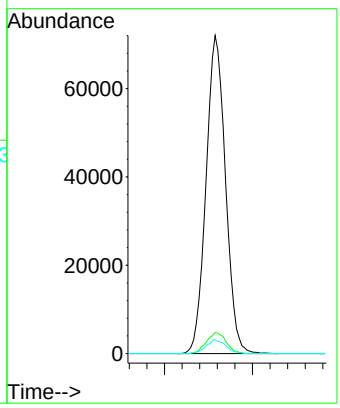
Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

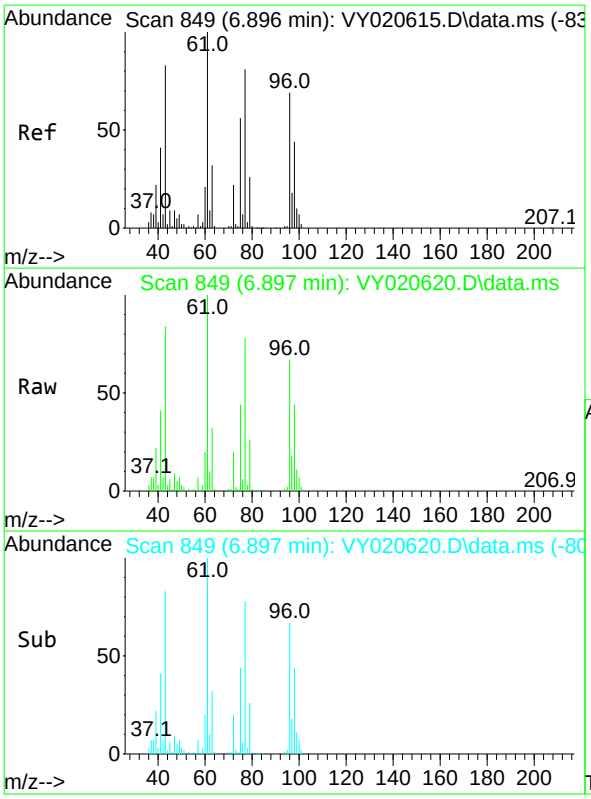



#24
1,1-Dichloroethane
Concen: 48.802 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 63 Resp: 221322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.6 | 3.4 | 10.1 |
| 100 | 4.4 | 2.1 | 6.5 |

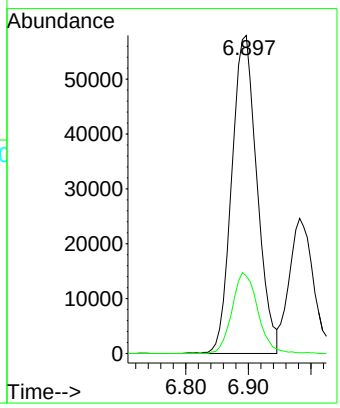





#25
2-Butanone
Concen: 230.232 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 162705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.3 | 20.6 | 31.0 |




**Instrument :**
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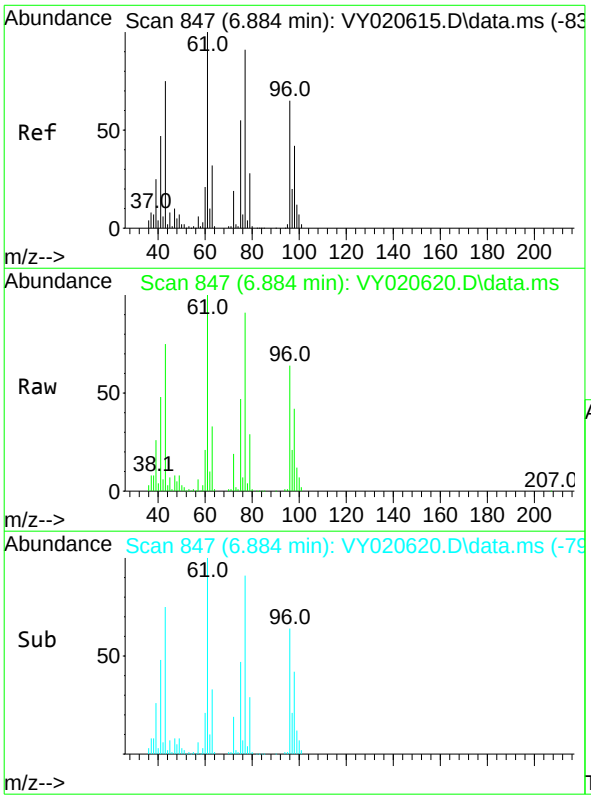
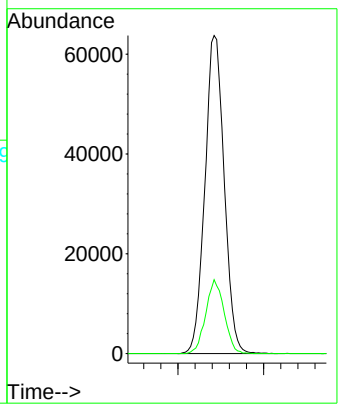
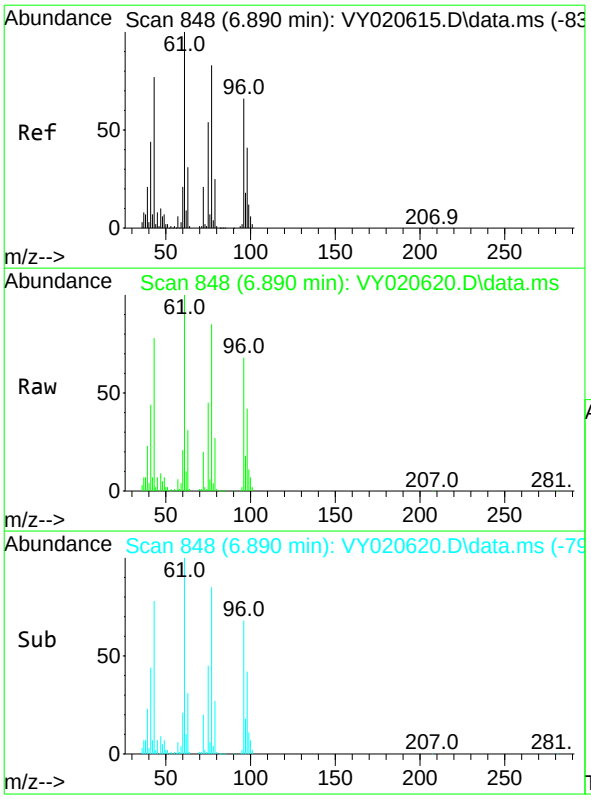



#26
2,2-Dichloropropane
Concen: 46.471 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 77 Resp: 199229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.2 | 10.9 | 32.6 |

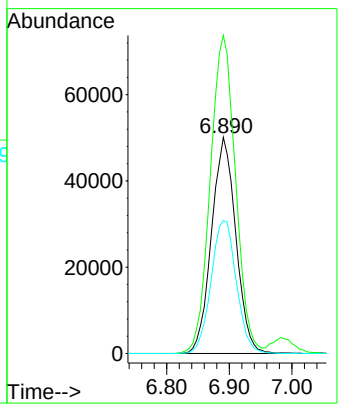





#27
cis-1,2-Dichloroethene
Concen: 48.202 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 96 Resp: 135394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 152.6 | 0.0 | 306.2 |
| 98 | 63.9 | 0.0 | 127.2 |

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MSVOA_Y
**ClientSampleId :**
ICVVY121724

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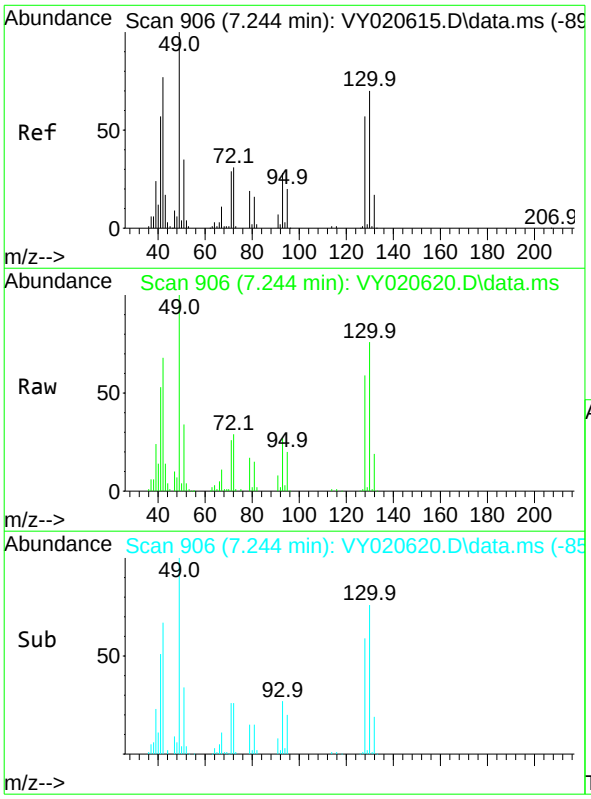
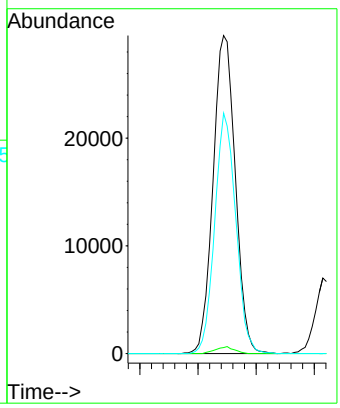
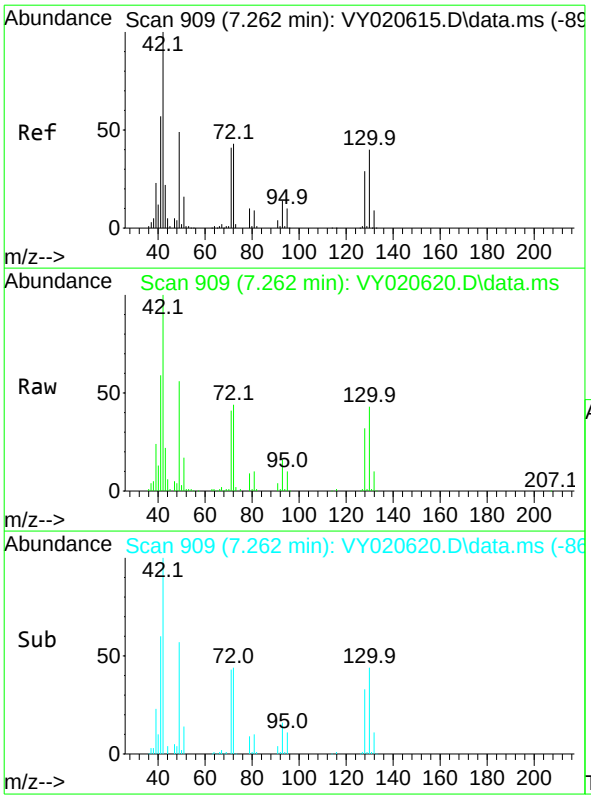



#28
Bromochloromethane
Concen: 51.402 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 49 Resp: 78629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 3.8 |
| 130 | 71.6 | 58.3 | 87.5 |

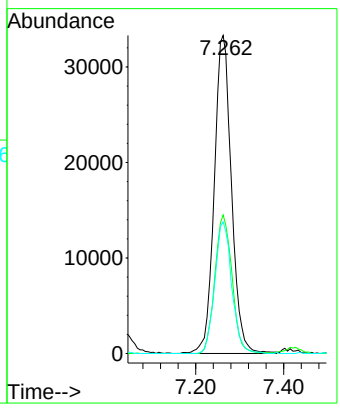





#29
Tetrahydrofuran
Concen: 203.060 ug/l
RT: 7.262 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 42 Resp: 90590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.4 | 34.0 | 51.0 |
| 71 | 40.8 | 31.6 | 47.4 |




**Instrument :**
MSVOA_Y
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ICVVY121724

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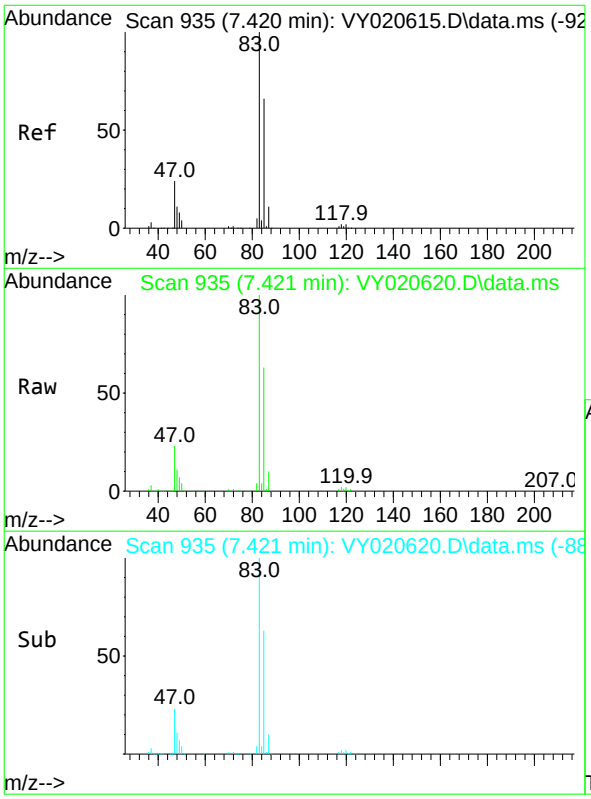
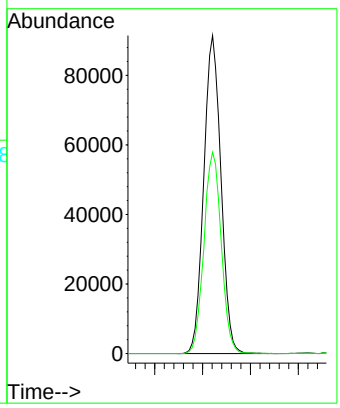
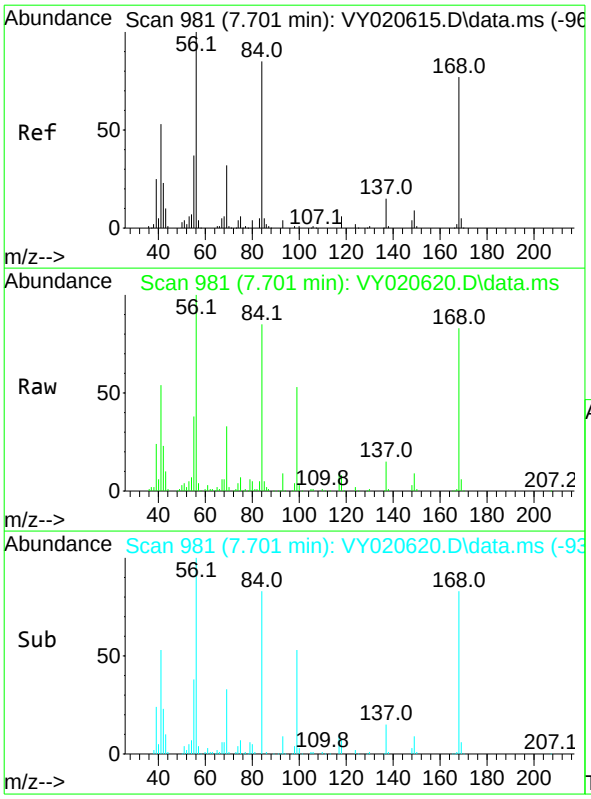



#30
Chloroform
Concen: 49.995 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 83 Resp: 227671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 52.7 | 79.1 |

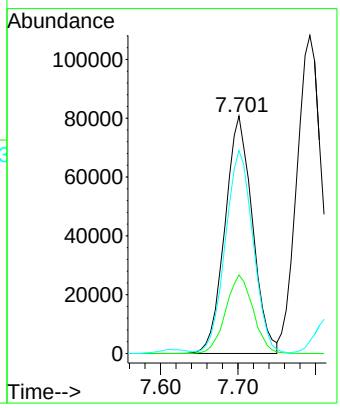





#31
Cyclohexane
Concen: 45.921 ug/l
RT: 7.701 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 56 Resp: 199127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.0 | 25.4 | 38.0 |
| 84 | 83.9 | 68.3 | 102.5 |




**Instrument :**
MSVOA_Y
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ICVVY121724

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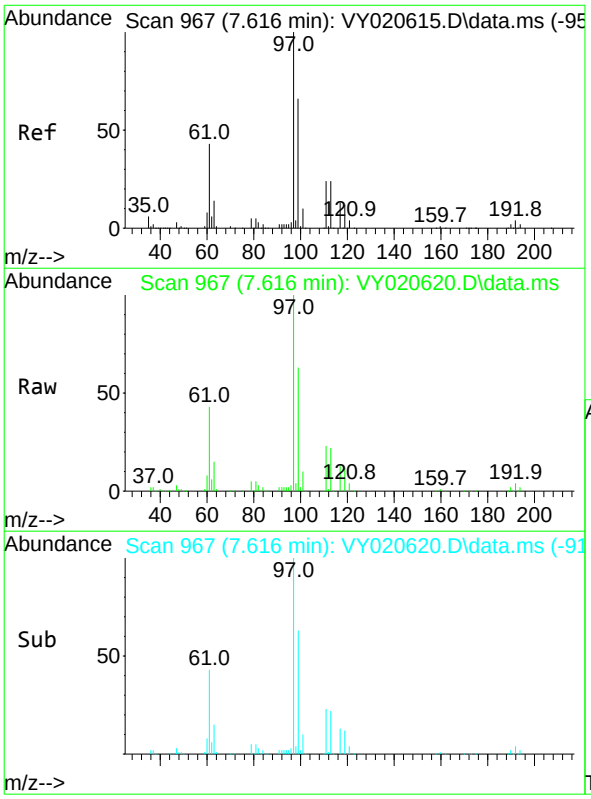
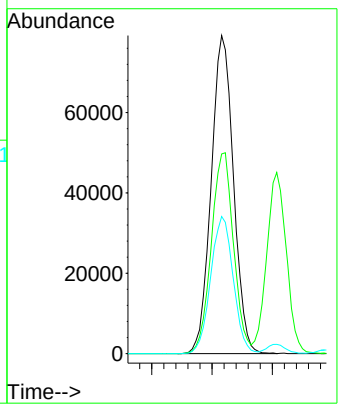
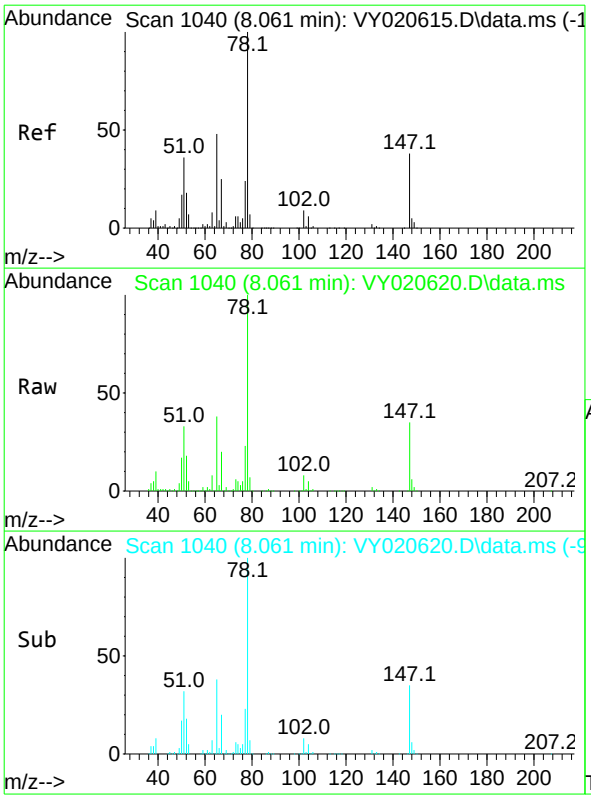



#32
1,1,1-Trichloroethane
Concen: 48.837 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 97 Resp: 203477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.1 | 51.6 | 77.4 |
| 61 | 43.6 | 34.7 | 52.1 |

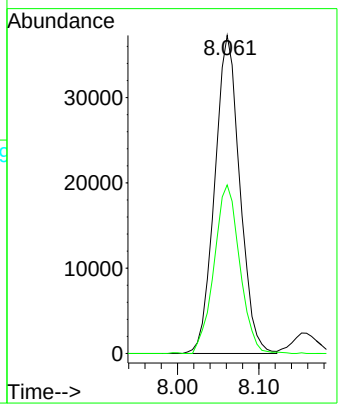





#33
1,2-Dichloroethane-d4
Concen: 41.971 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 65 Resp: 79812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.2 | 0.0 | 108.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

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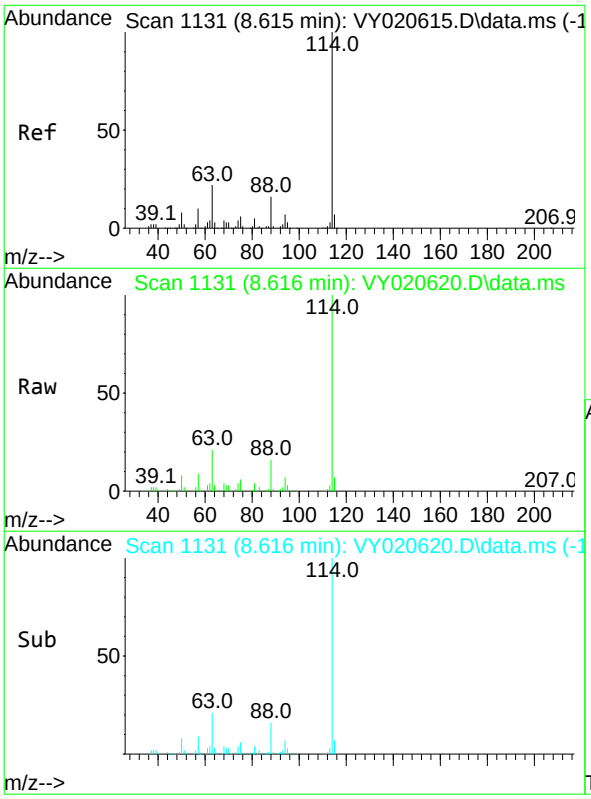
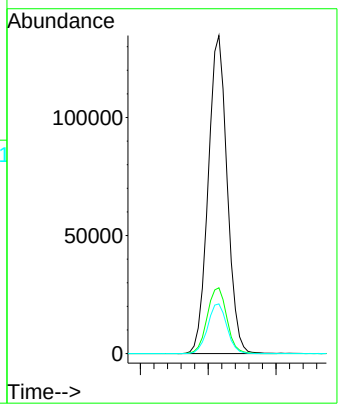
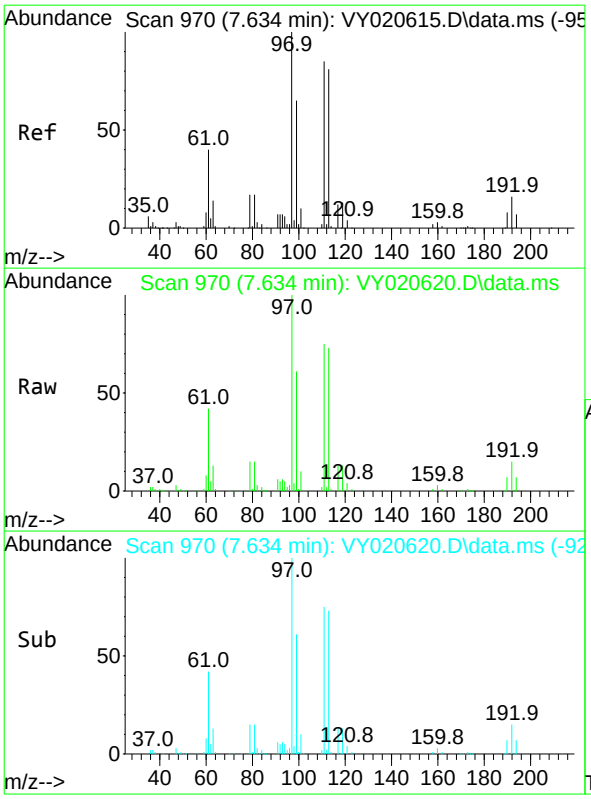



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:114 Resp: 261652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 44.0 |
| 88 | 15.6 | 0.0 | 32.8 |

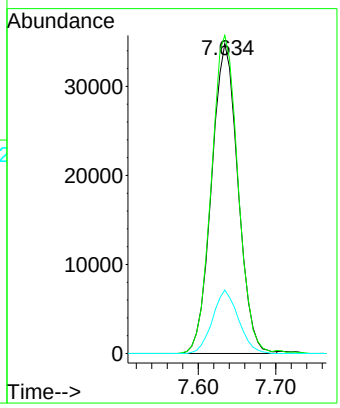





#35
Dibromofluoromethane
Concen: 44.743 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:113 Resp: 82508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 82.9 | 124.3 |
| 192 | 20.0 | 15.7 | 23.5 |

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**ClientSampleId :**
ICVVY121724

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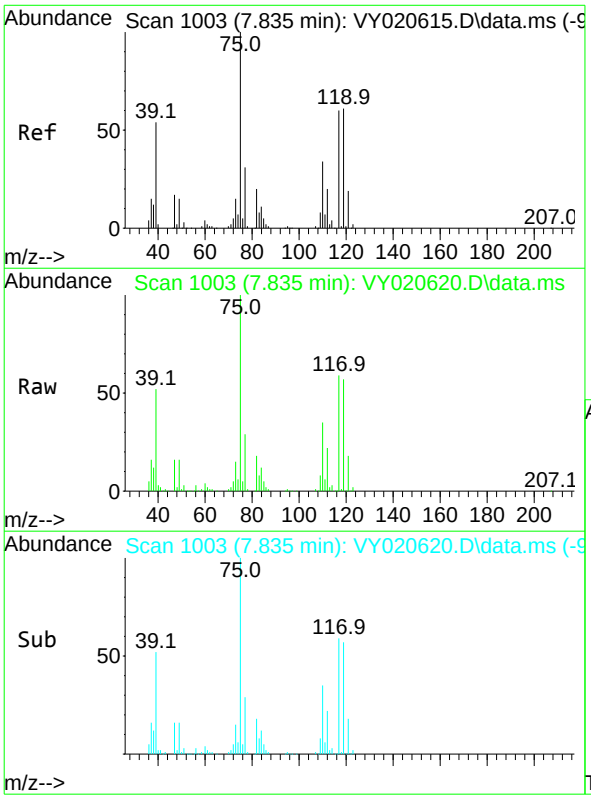
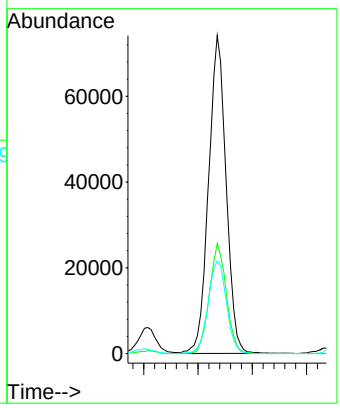
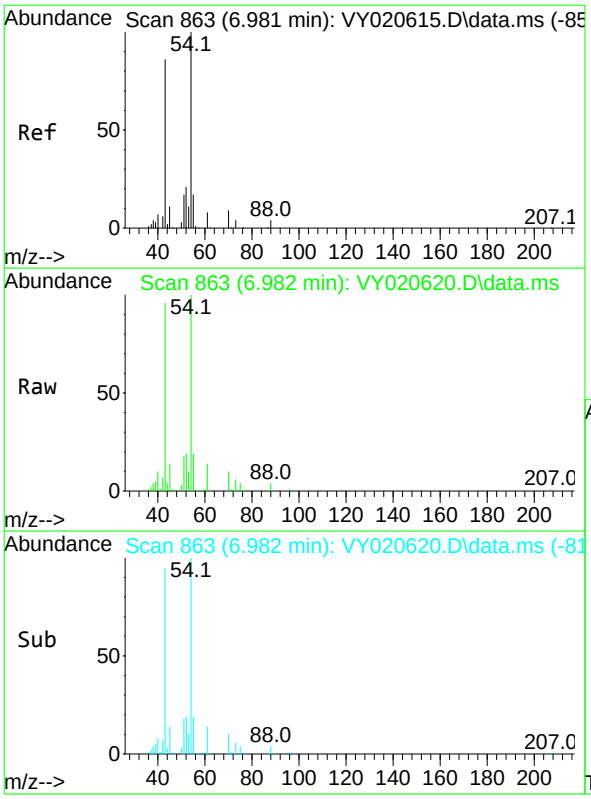



#36
1,1-Dichloropropene
Concen: 49.418 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 75 Resp: 166171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.6 | 16.8 | 50.4 |
| 77 | 30.5 | 25.0 | 37.6 |






#37
Ethyl Acetate
Concen: 42.490 ug/l
RT: 6.982 min Scan# 86
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 67205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.1 | 11.0 | 16.4 |
| 70 | 10.4 | 7.9 | 11.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

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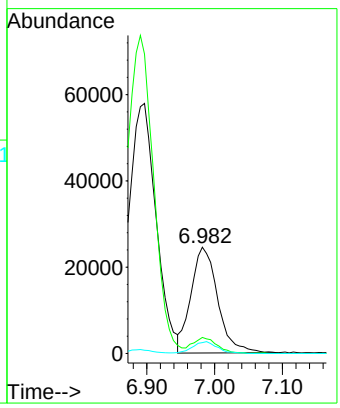
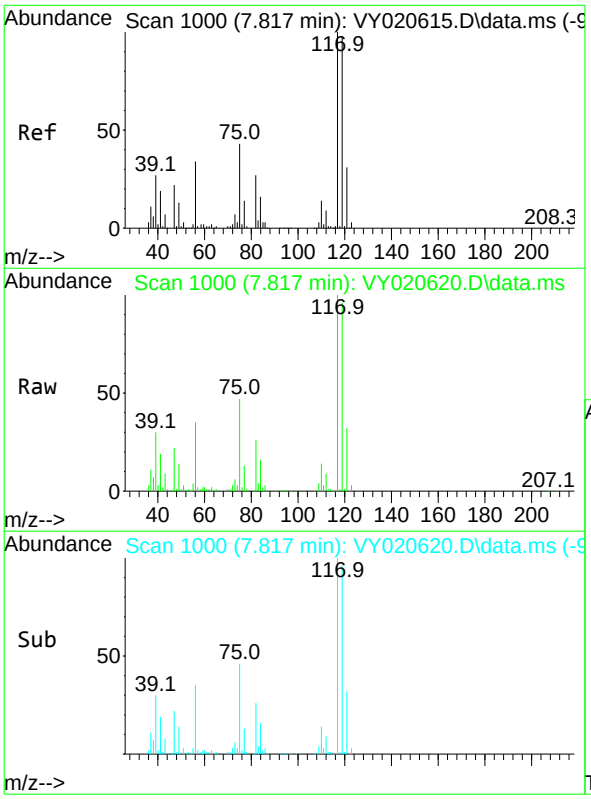
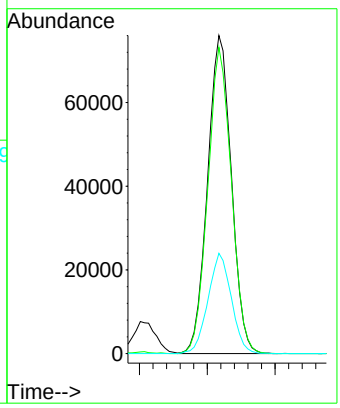


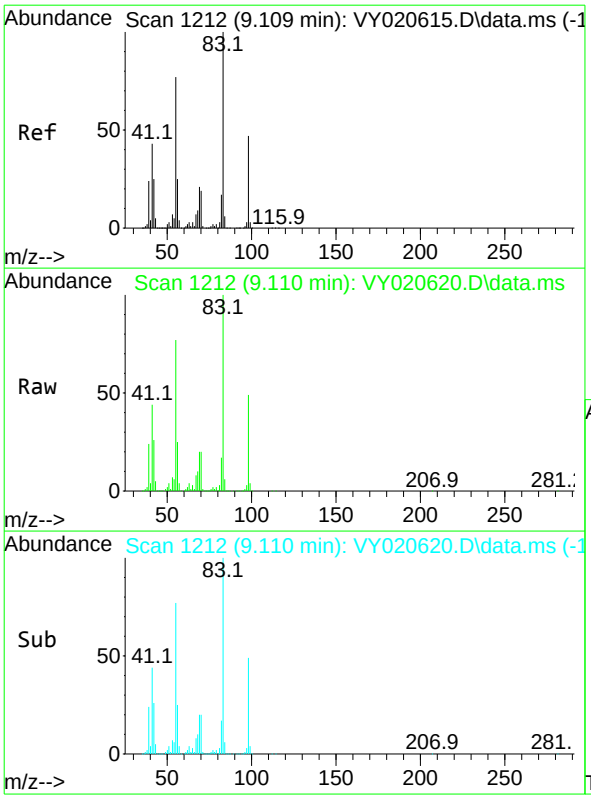




#38
Carbon Tetrachloride
Concen: 49.800 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:117 Resp: 185268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.3 | 78.3 | 117.5 |
| 121 | 31.5 | 25.1 | 37.7 |

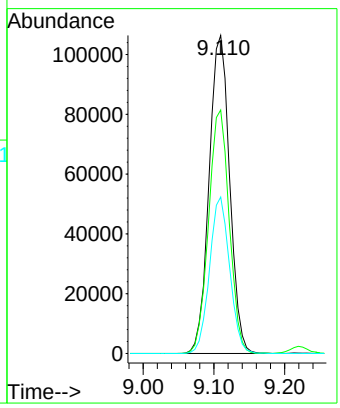





#39
Methylcyclohexane
Concen: 48.913 ug/l
RT: 9.110 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 83 Resp: 214365

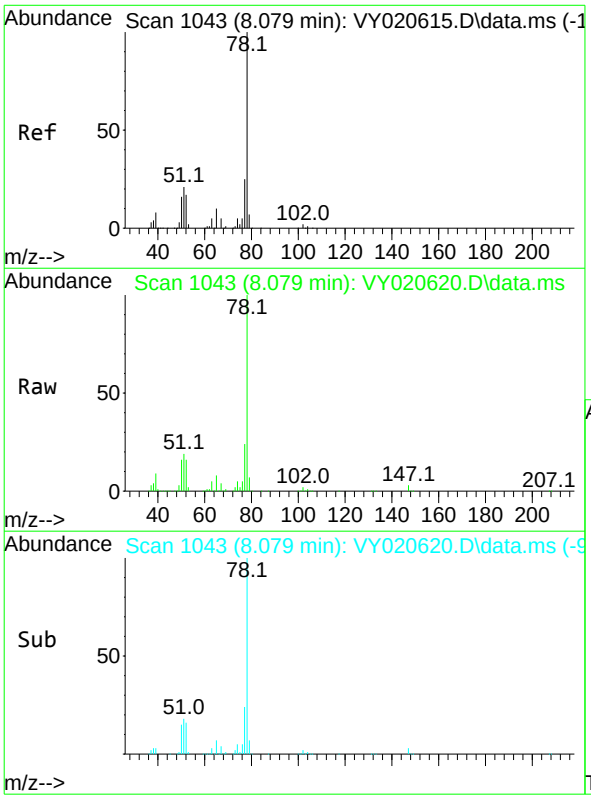
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.6 | 61.4 | 92.0 |
| 98 | 49.2 | 37.3 | 55.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

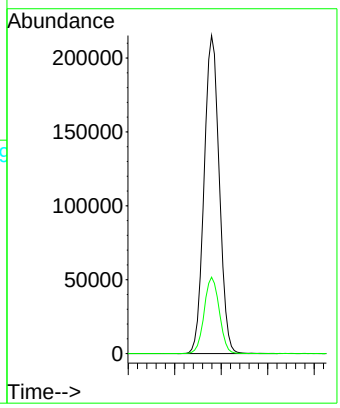
Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

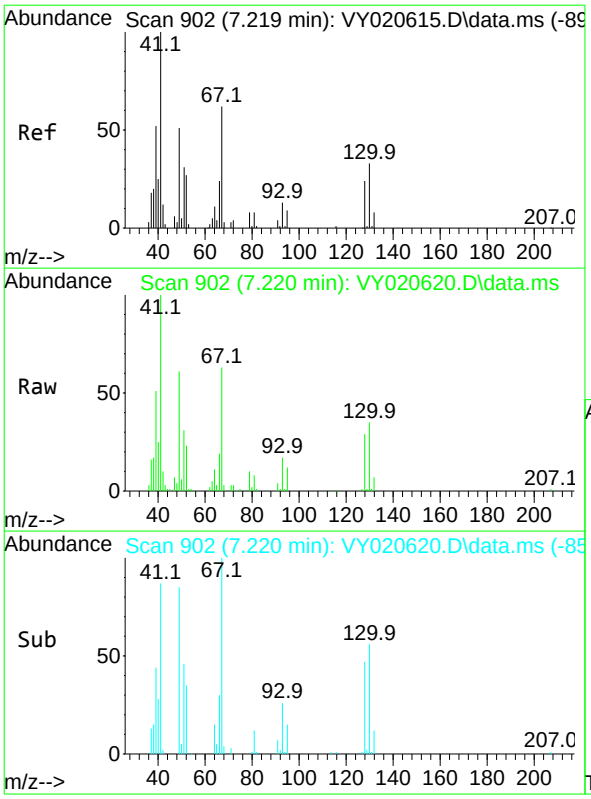



#40
Benzene
Concen: 49.357 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 78 Resp: 486468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 20.1 | 30.1 |

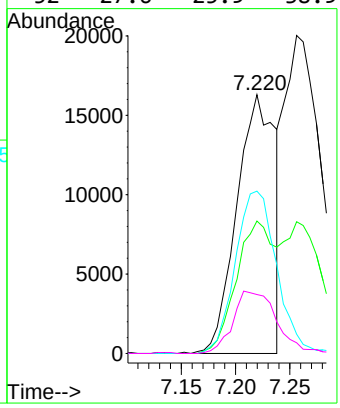





#41
Methacrylonitrile
Concen: 47.631 ug/l
RT: 7.220 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 41 Resp: 39828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.2 | 53.6 | 80.4# |
| 67 | 68.3 | 62.0 | 93.0 |
| 52 | 27.6 | 25.9 | 38.9 |

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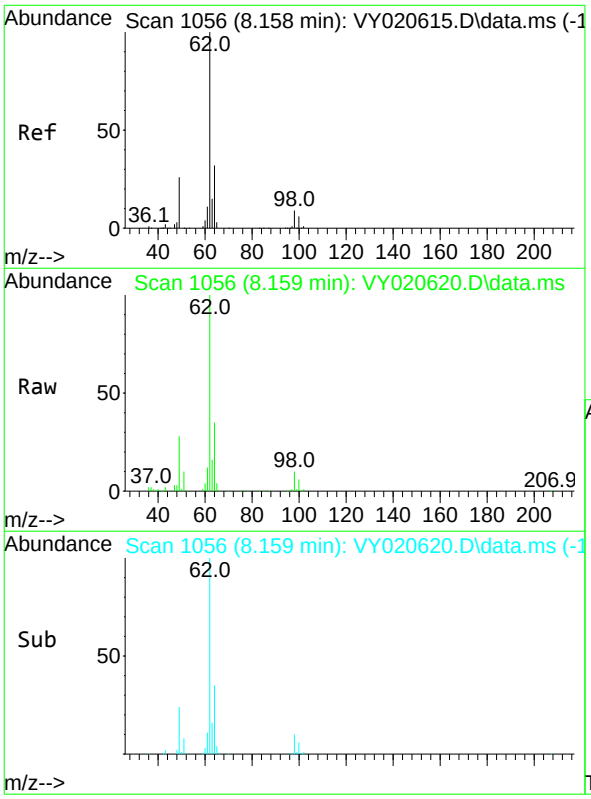
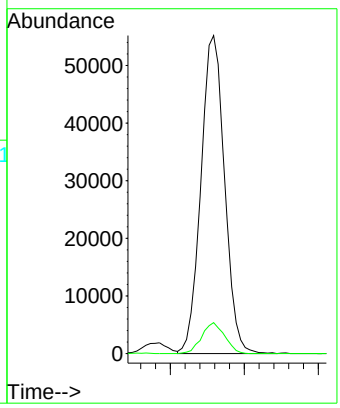
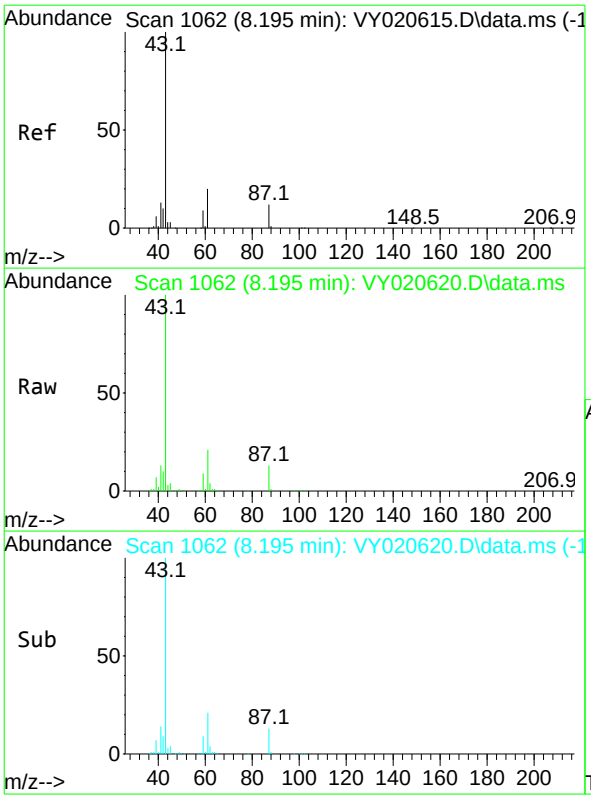



#42
1,2-Dichloroethane
Concen: 46.869 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 62 Resp: 122520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.4 | 0.0 | 18.0 |

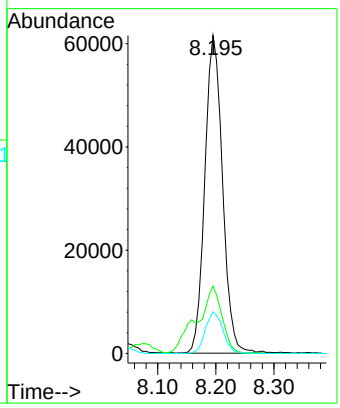





#43
Isopropyl Acetate
Concen: 43.528 ug/l
RT: 8.195 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 130339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.2 | 23.8 | 35.6# |
| 87 | 13.1 | 10.2 | 15.4 |

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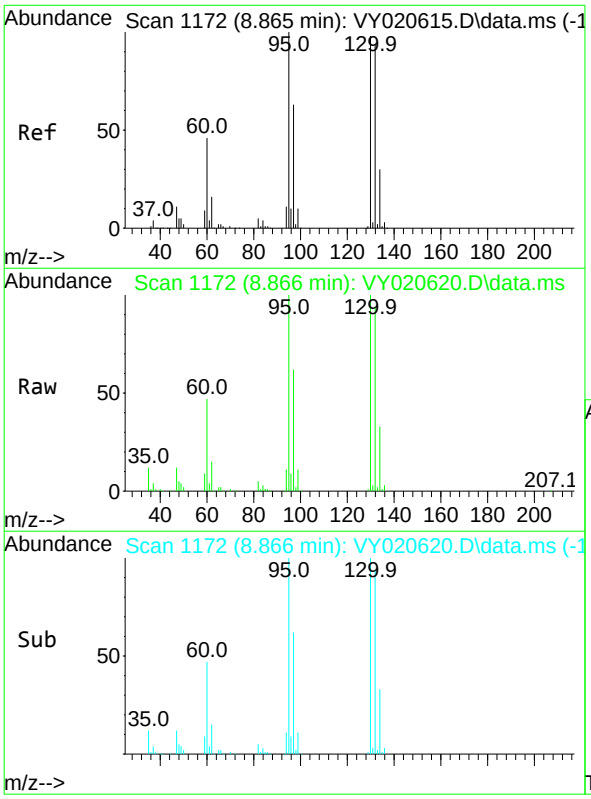
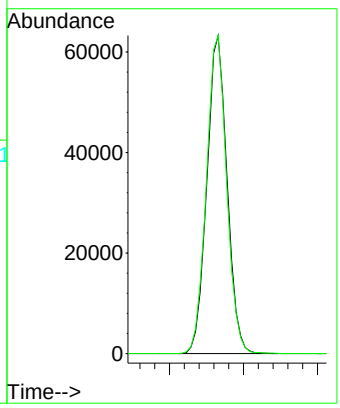
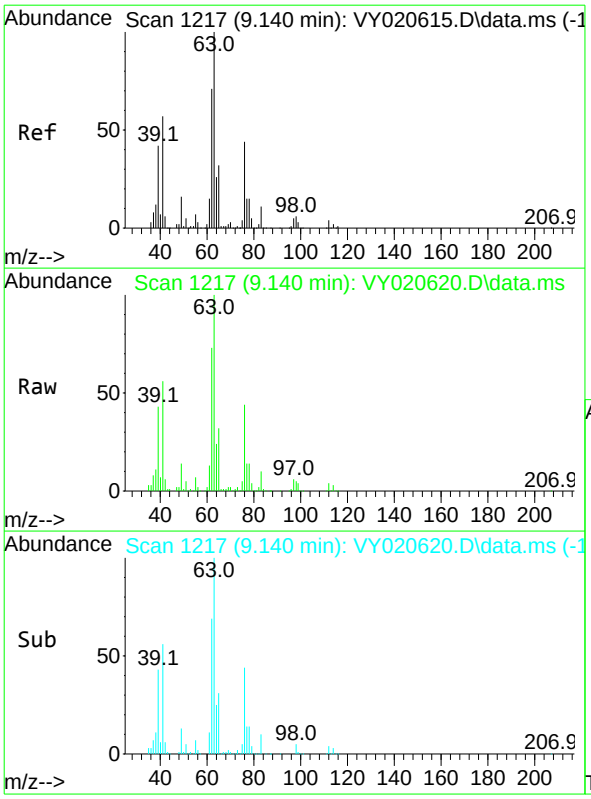



#44
Trichloroethene
Concen: 49.555 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:130 Resp: 120014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.1 | 0.0 | 203.2 |

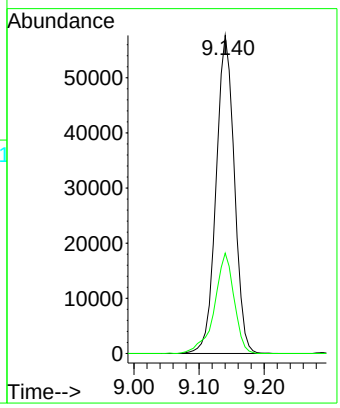





#45
1,2-Dichloropropane
Concen: 48.695 ug/l
RT: 9.140 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 63 Resp: 112171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.5 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

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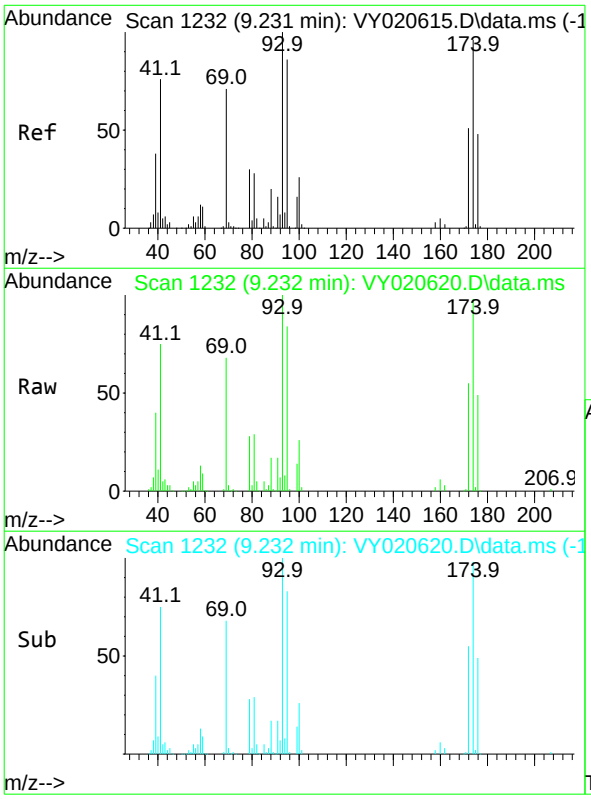
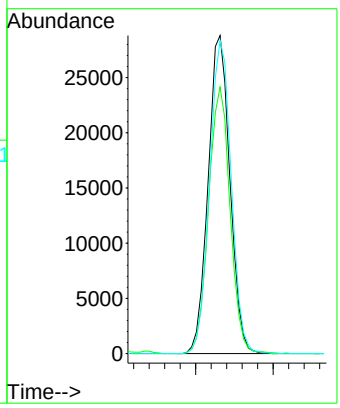
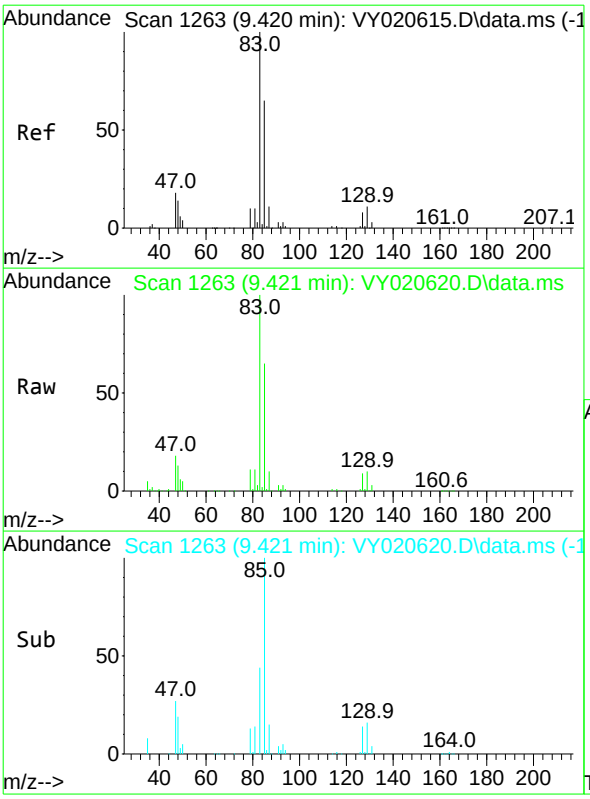



#46
Dibromomethane
Concen: 46.265 ug/l
RT: 9.232 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 93 Resp: 56323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.4 | 66.7 | 100.1 |
| 174 | 97.6 | 77.8 | 116.6 |

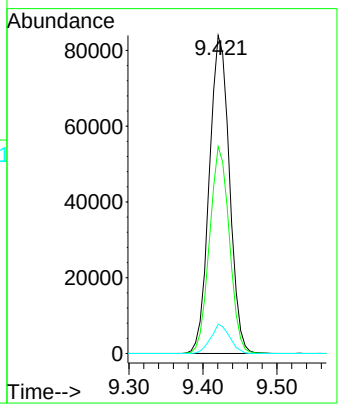





#47
Bromodichloromethane
Concen: 48.208 ug/l
RT: 9.421 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 83 Resp: 158529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 52.1 | 78.1 |
| 127 | 9.2 | 6.7 | 10.1 |

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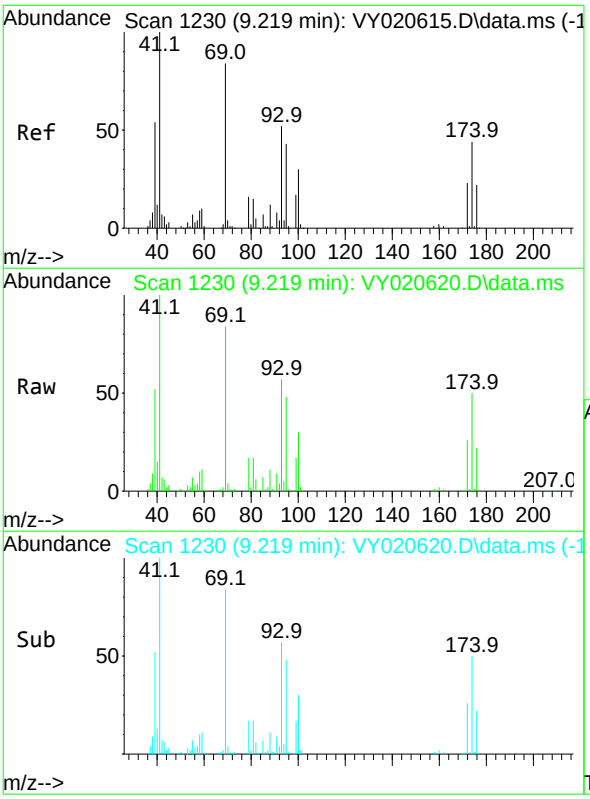
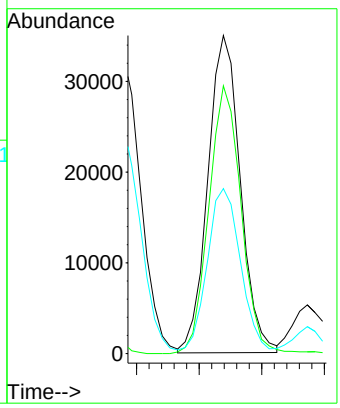
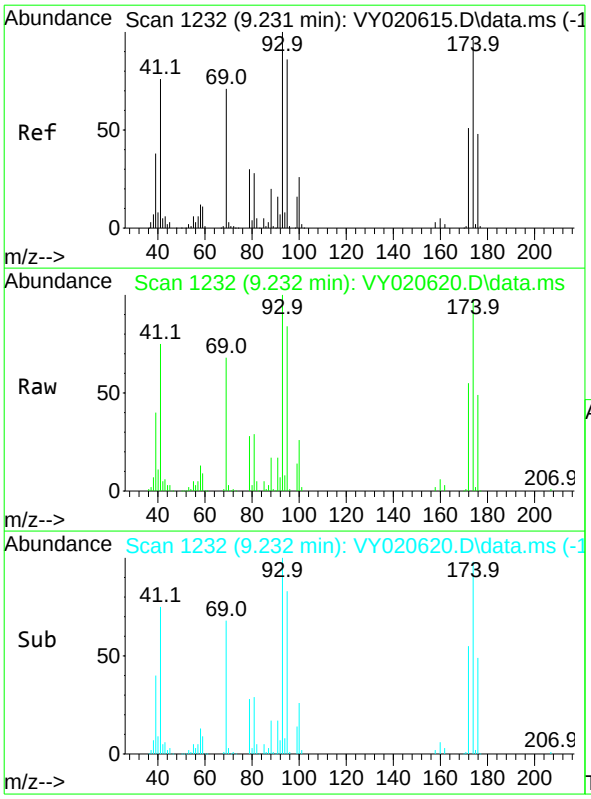



#48
Methyl methacrylate
Concen: 44.268 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 41 Resp: 63016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.2 | 67.2 | 100.8 |
| 39 | 51.5 | 42.2 | 63.4 |

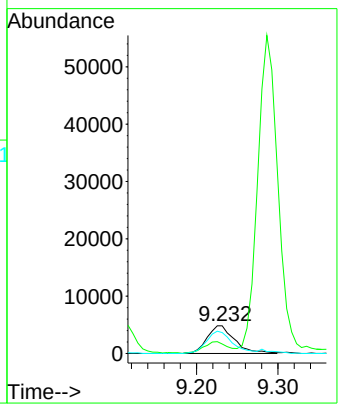





#49
1,4-Dioxane
Concen: 816.119 ug/l
RT: 9.232 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 88 Resp: 11394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 38.7 | 27.6 | 41.4 |
| 58 | 75.9 | 61.7 | 92.5 |

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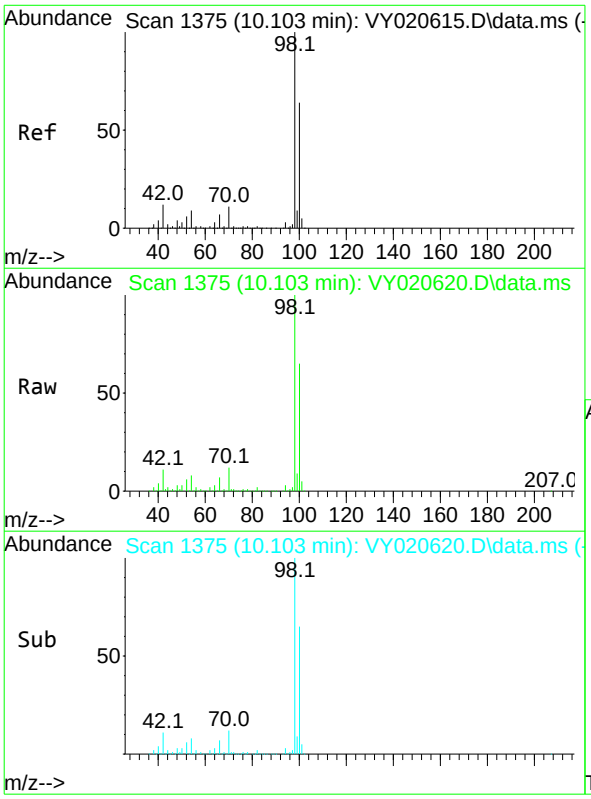
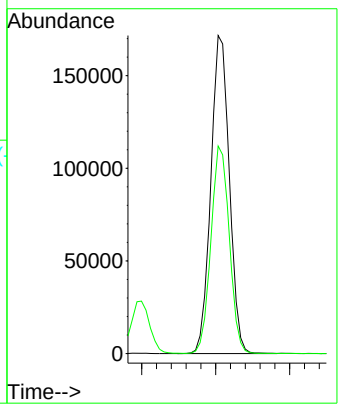
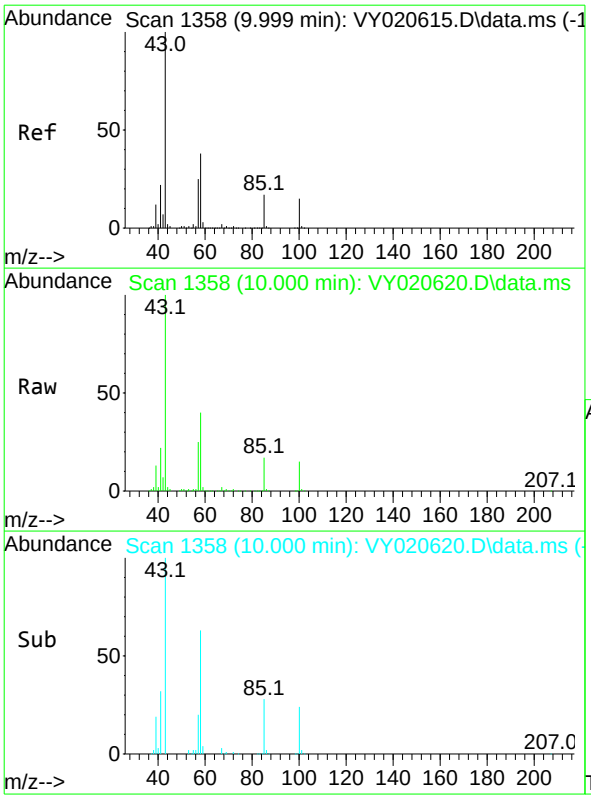



#50
Toluene-d8
Concen: 46.169 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 98 Resp: 297999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.1 | 78.1 |

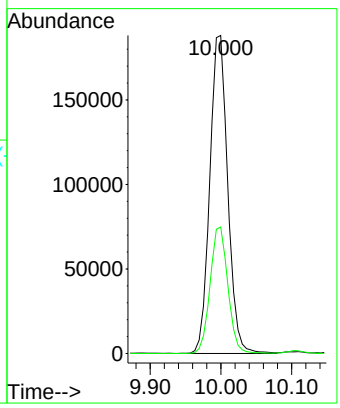





#51
4-Methyl-2-Pentanone
Concen: 209.670 ug/l
RT: 10.000 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 331396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.3 | 31.4 | 47.2 |

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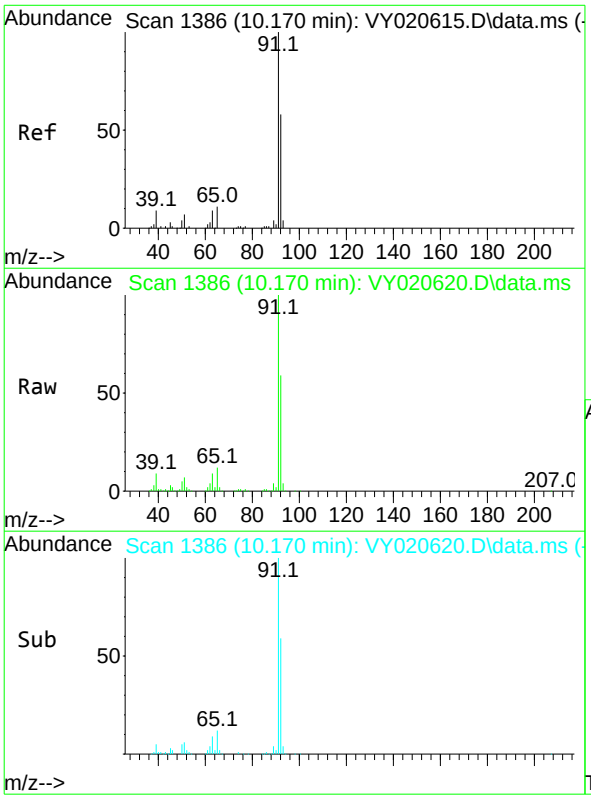
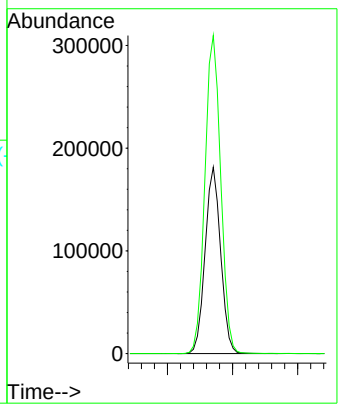
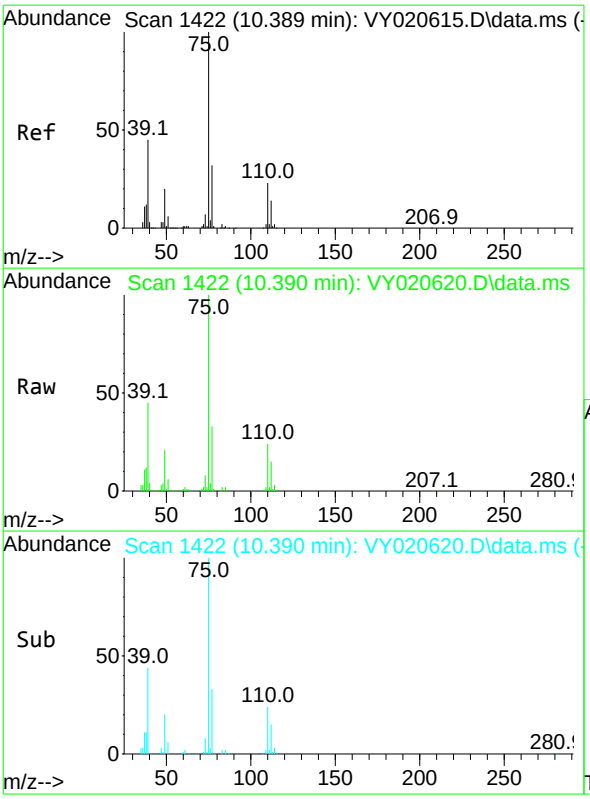



#52
Toluene
Concen: 49.073 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 92 Resp: 300584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.8 | 137.4 | 206.0 |

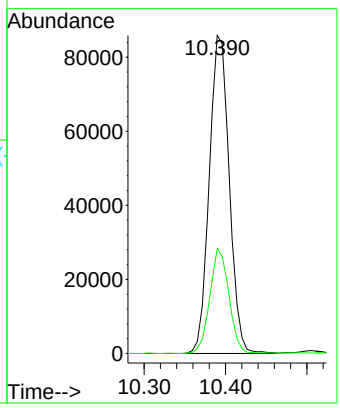





#53
t-1,3-Dichloropropene
Concen: 47.810 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 75 Resp: 146498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.0 | 25.4 | 38.2 |

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ICVVY121724

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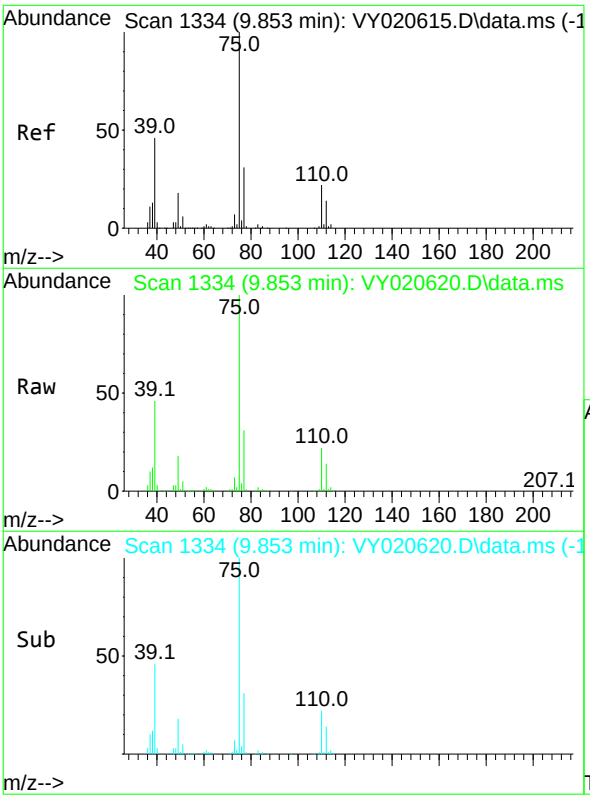
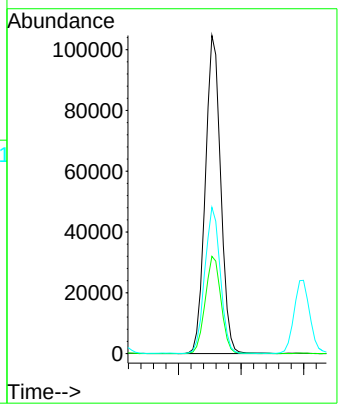
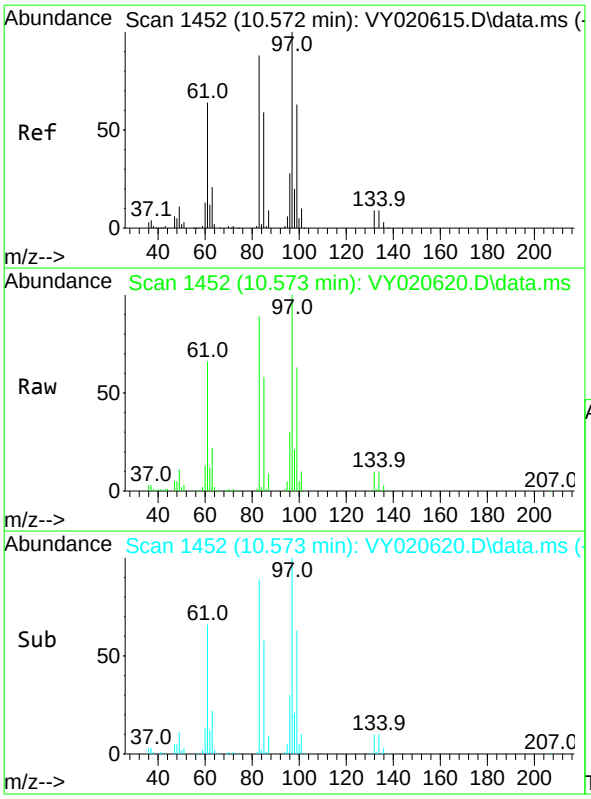



#54
cis-1,3-Dichloropropene
Concen: 49.184 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 75 Resp: 178584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.6 | 24.6 | 36.8 |
| 39 | 45.9 | 36.4 | 54.6 |

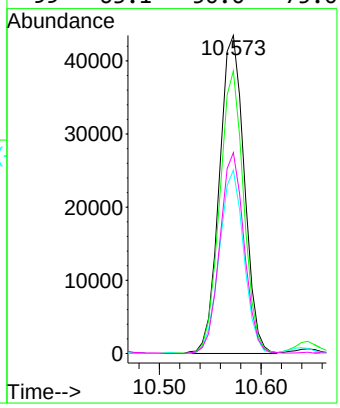





#55
1,1,2-Trichloroethane
Concen: 45.952 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 97 Resp: 73962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.7 | 70.4 | 105.6 |
| 85 | 57.6 | 47.2 | 70.8 |
| 99 | 63.1 | 50.0 | 75.0 |

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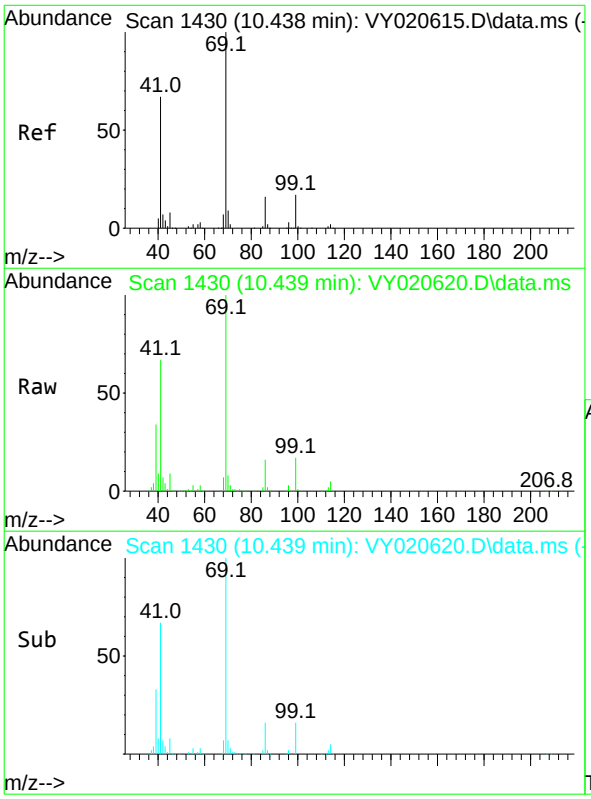
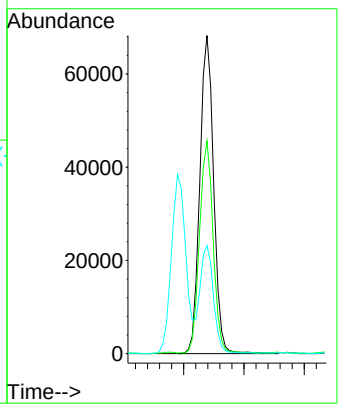
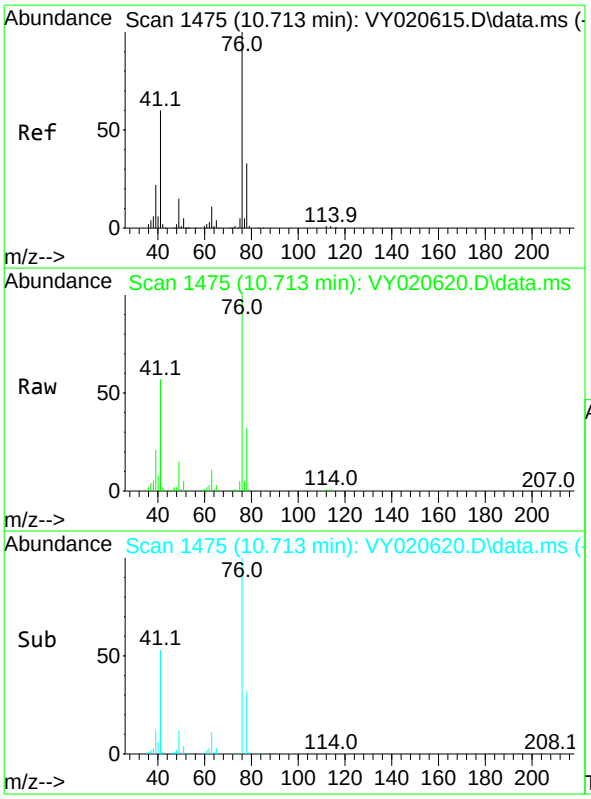



#56
Ethyl methacrylate
Concen: 46.525 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 69 Resp: 108638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.7 | 54.0 | 81.0 |
| 39 | 34.3 | 27.9 | 41.9 |

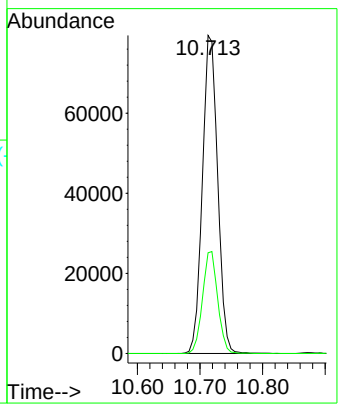





#57
1,3-Dichloropropane
Concen: 46.882 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 76 Resp: 134515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.8 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations**
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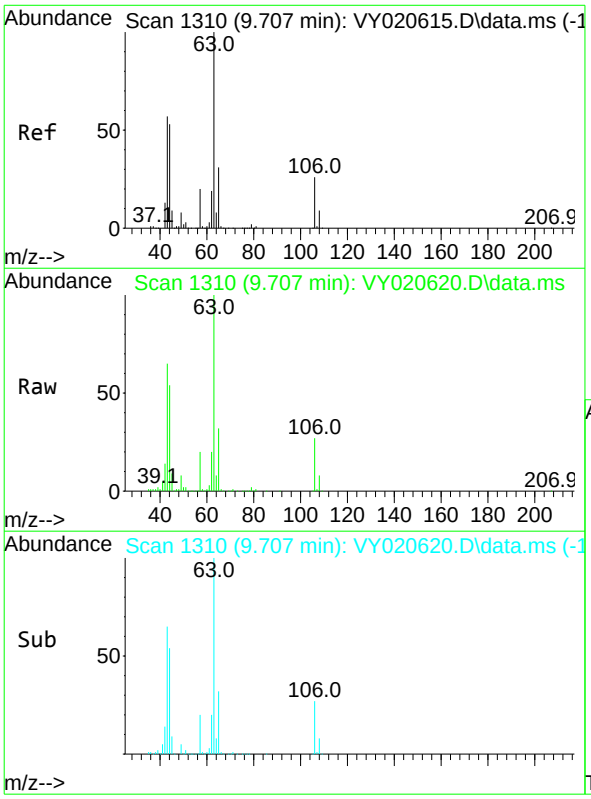
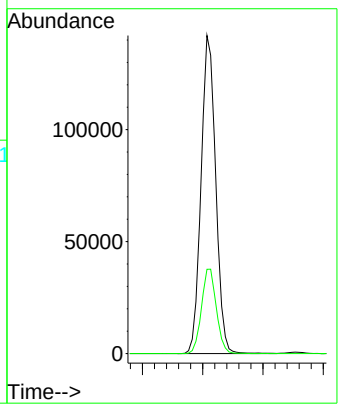
Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

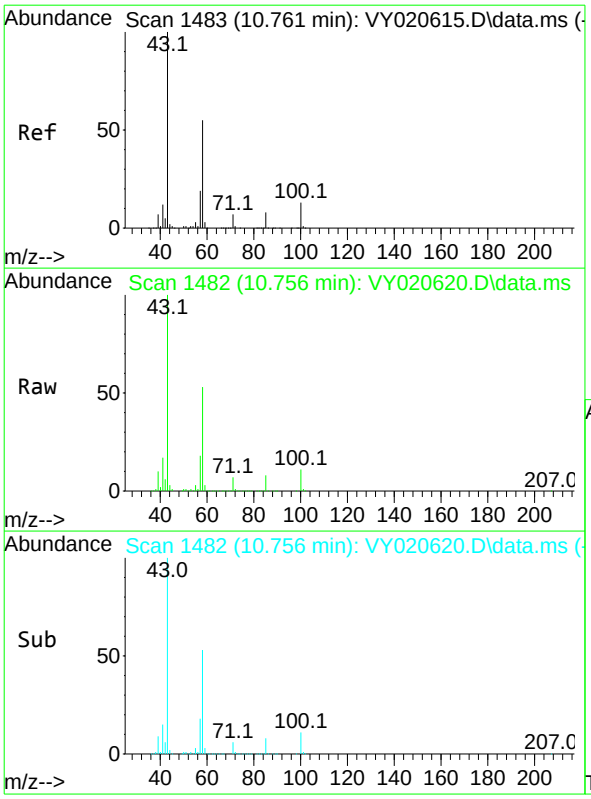



#58
2-Chloroethyl Vinyl ether
Concen: 243.610 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 63 Resp: 239347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.9 | 21.5 | 32.3 |






#59
2-Hexanone
Concen: 236.822 ug/l
RT: 10.756 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 240324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.2 | 27.2 | 81.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

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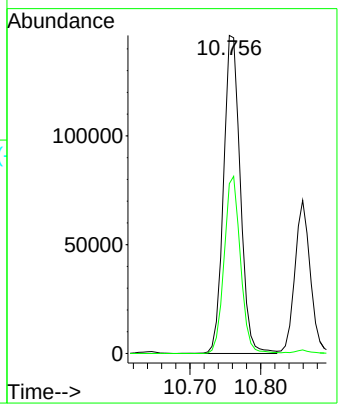
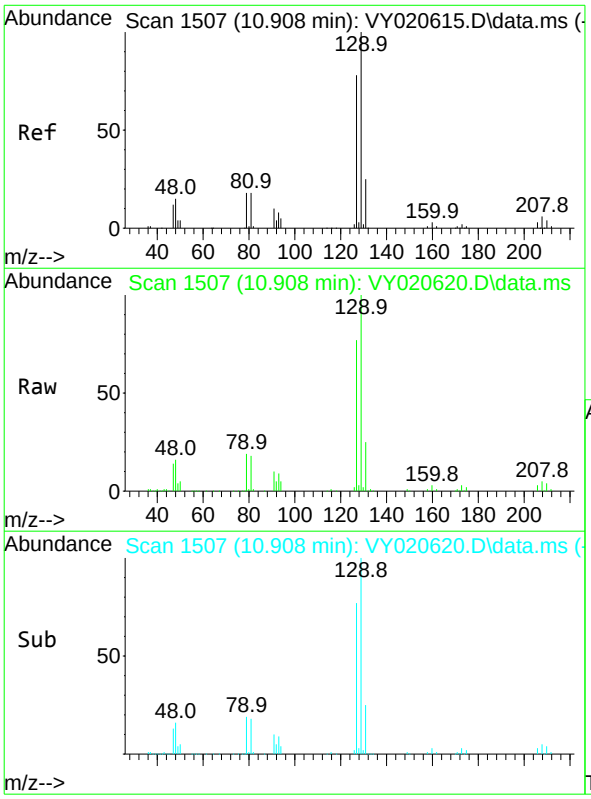
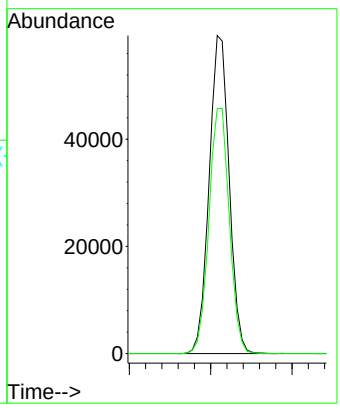


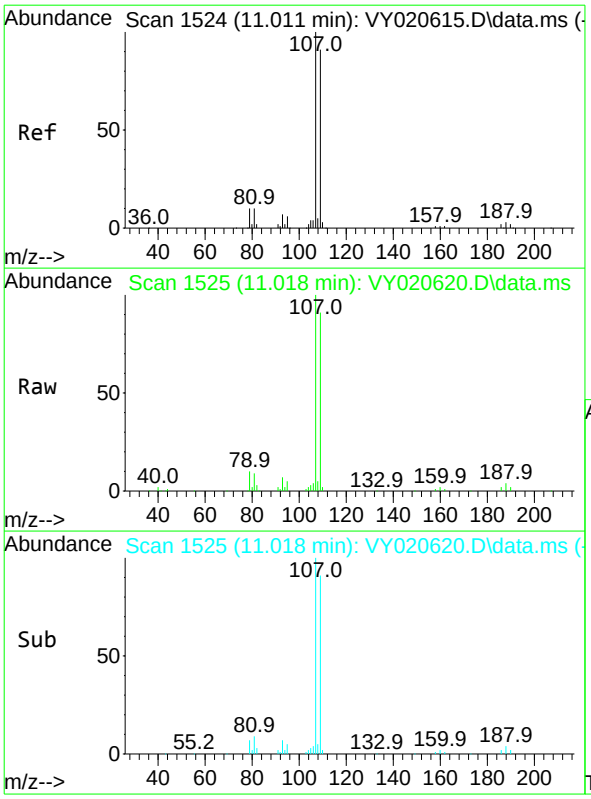




#60
Dibromochloromethane
Concen: 47.121 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:129 Resp: 101431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 38.1 | 114.3 |

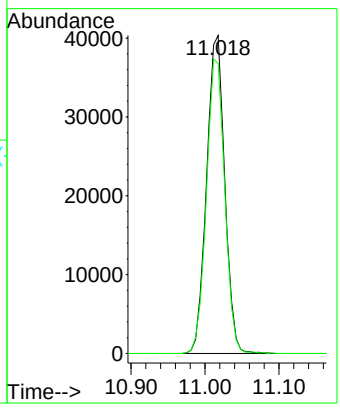





#61
1,2-Dibromoethane
Concen: 45.952 ug/l
RT: 11.018 min Scan# 15
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:107 Resp: 68798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.4 | 75.4 | 113.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

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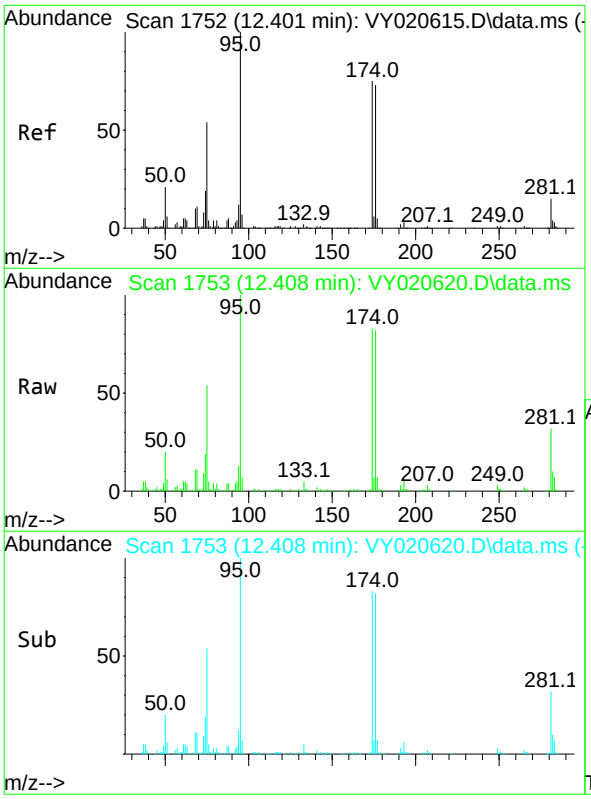
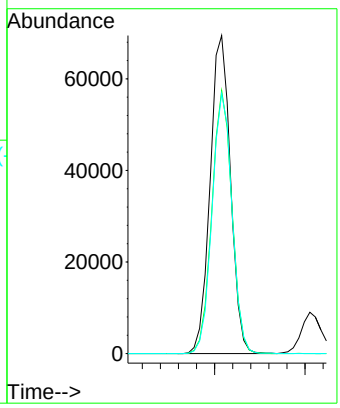
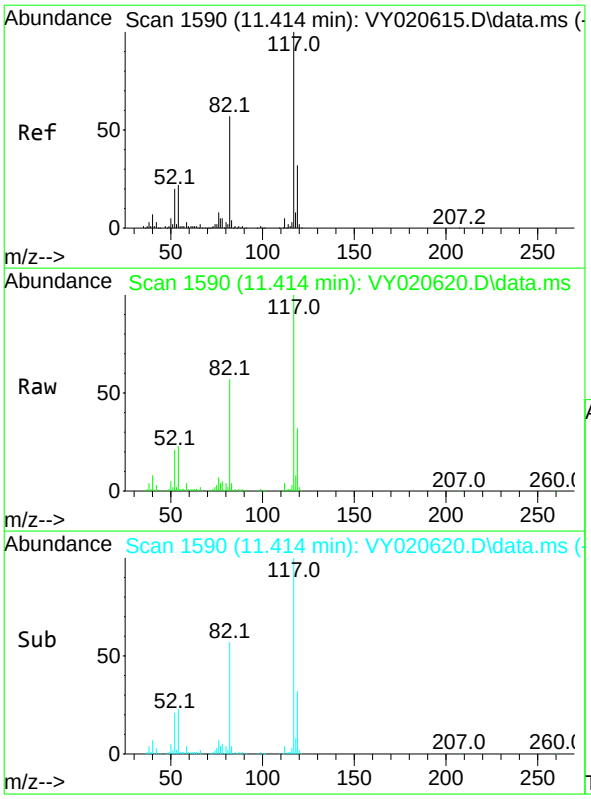



#62
4-Bromofluorobenzene
Concen: 42.982 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 95 Resp: 108522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.1 | 0.0 | 161.8 |
| 176 | 80.1 | 0.0 | 156.6 |

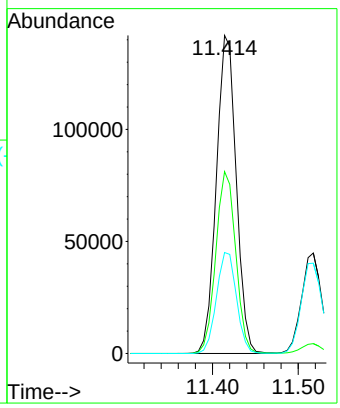





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:117 Resp: 229207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.2 | 45.8 | 68.6 |
| 119 | 31.7 | 25.3 | 37.9 |

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ICVVY121724

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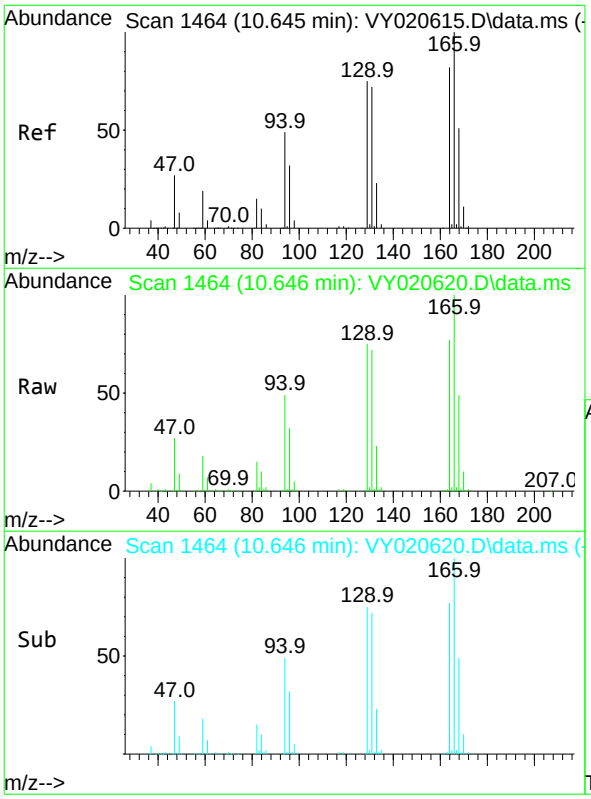
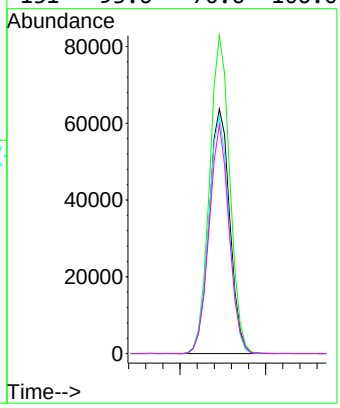
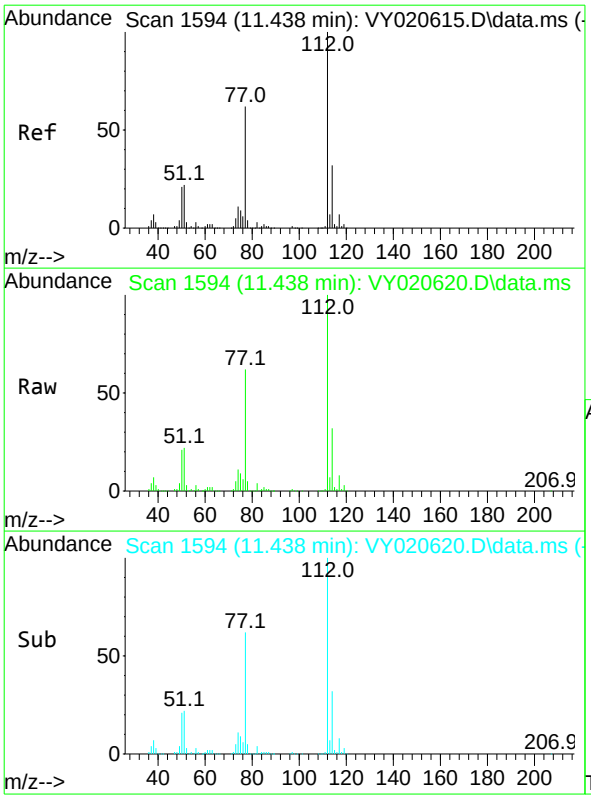



#64
Tetrachloroethene
Concen: 49.626 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:164 Resp: 106990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.0 | 97.9 | 146.9 |
| 129 | 96.9 | 73.4 | 110.0 |
| 131 | 93.6 | 70.6 | 106.0 |

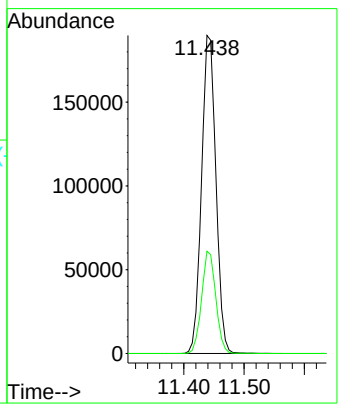





#65
Chlorobenzene
Concen: 48.986 ug/l
RT: 11.438 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:112 Resp: 313945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 26.0 | 39.0 |




**Instrument :**
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**ClientSampleId :**
ICVVY121724

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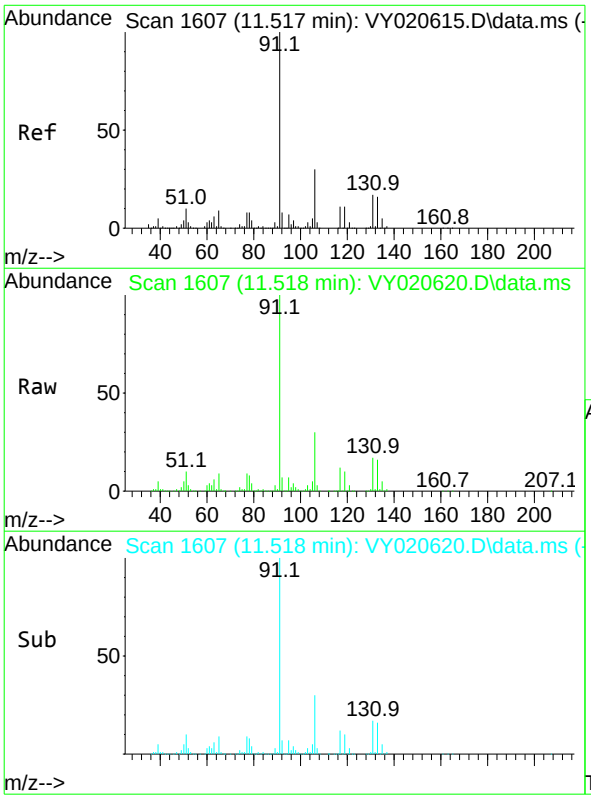
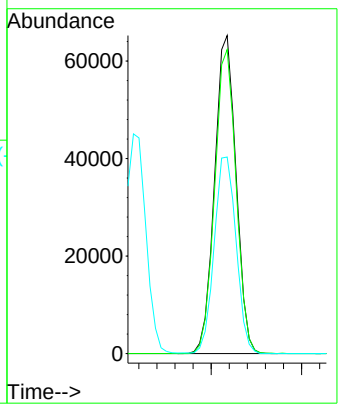
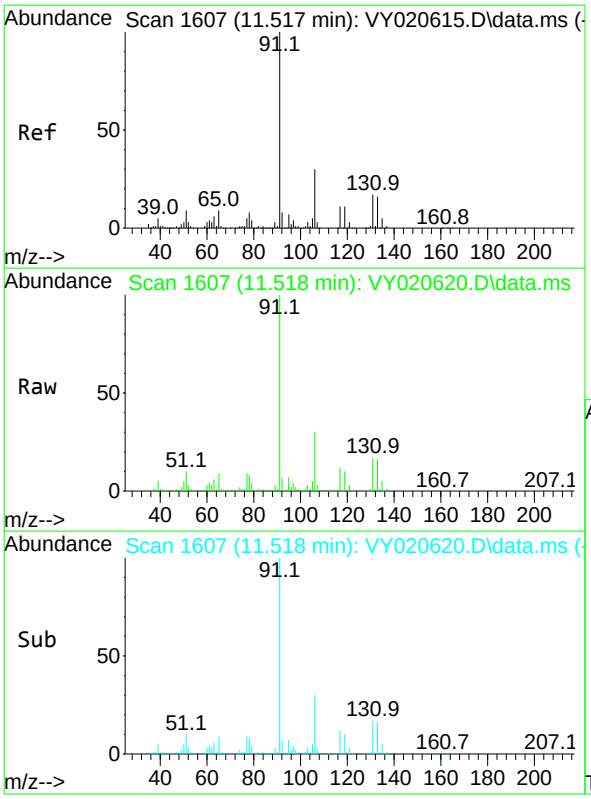



#66
1,1,1,2-Tetrachloroethane
Concen: 49.083 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:131 Resp: 107564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.2 | 46.8 | 140.3 |
| 119 | 63.1 | 31.8 | 95.3 |

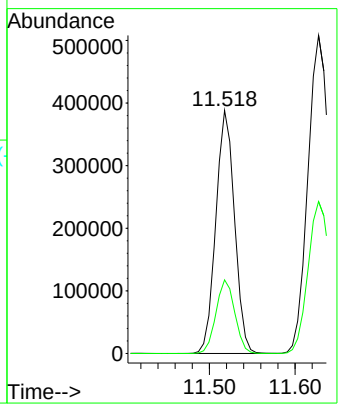





#67
Ethyl Benzene
Concen: 49.815 ug/l
RT: 11.518 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 91 Resp: 588990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.3 | 23.9 | 35.9 |




**Instrument :**
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ICVVY121724

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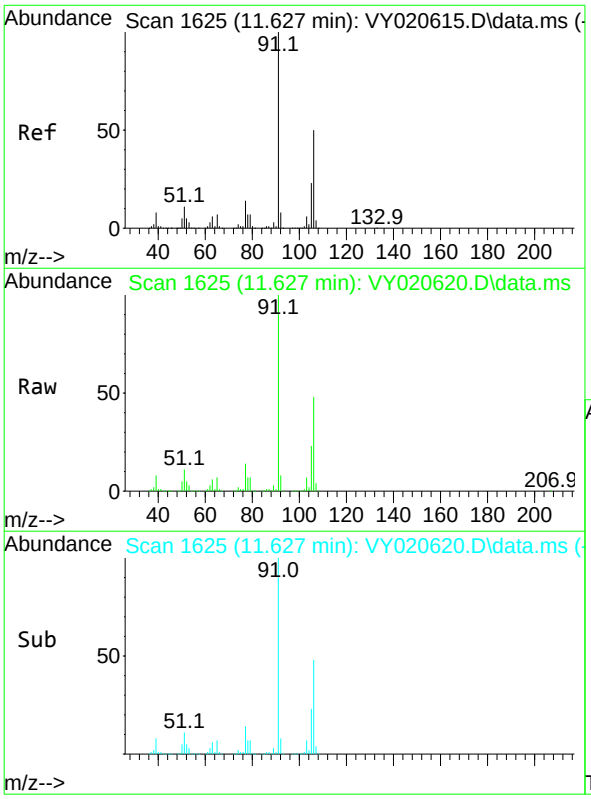
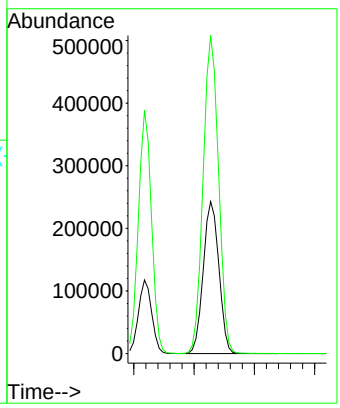
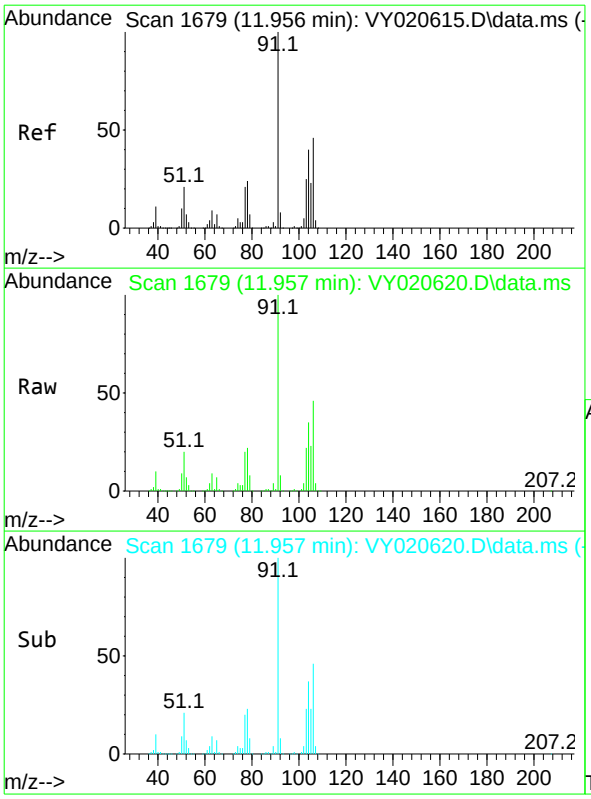



#68
m/p-Xylenes
Concen: 99.430 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:106 Resp: 437108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.6 | 165.0 | 247.4 |

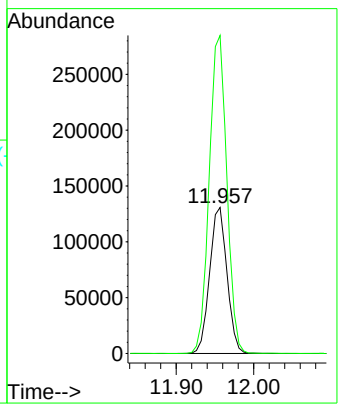





#69
o-Xylene
Concen: 49.568 ug/l
RT: 11.957 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:106 Resp: 203316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.3 | 108.4 | 325.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

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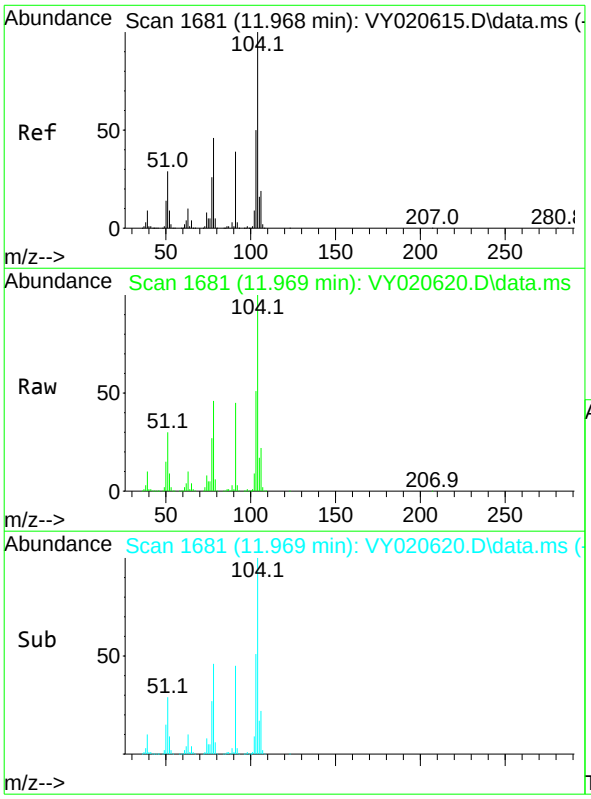
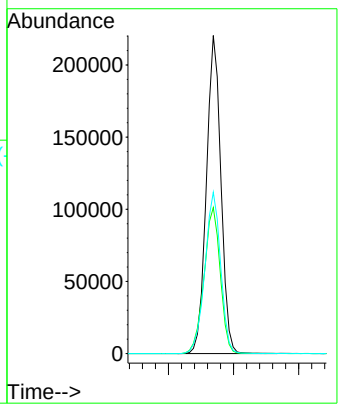
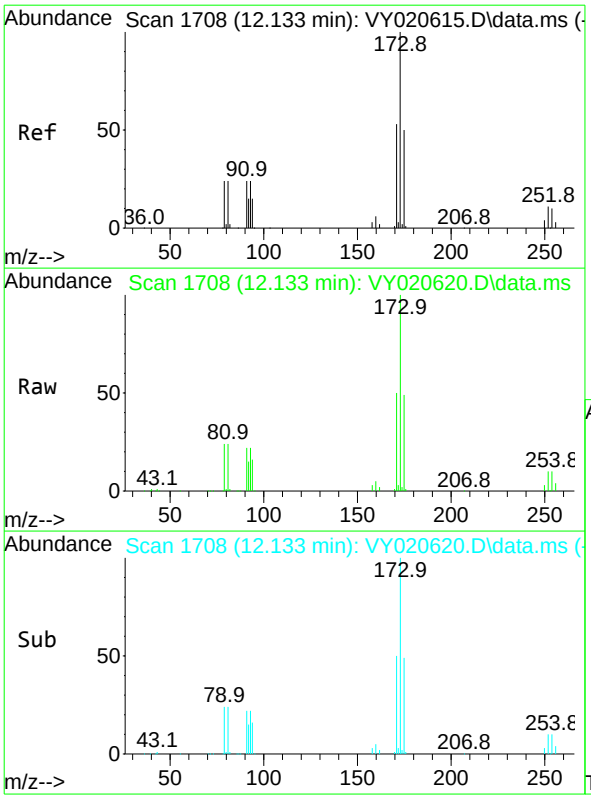



#70
Styrene
Concen: 49.827 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:104 Resp: 341470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.2 | 41.6 | 62.4 |
| 103 | 55.0 | 43.7 | 65.5 |






#71
Bromoform
Concen: 45.451 ug/l
RT: 12.133 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:173 Resp: 56002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.0 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |

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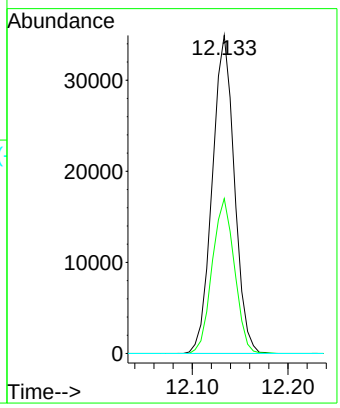
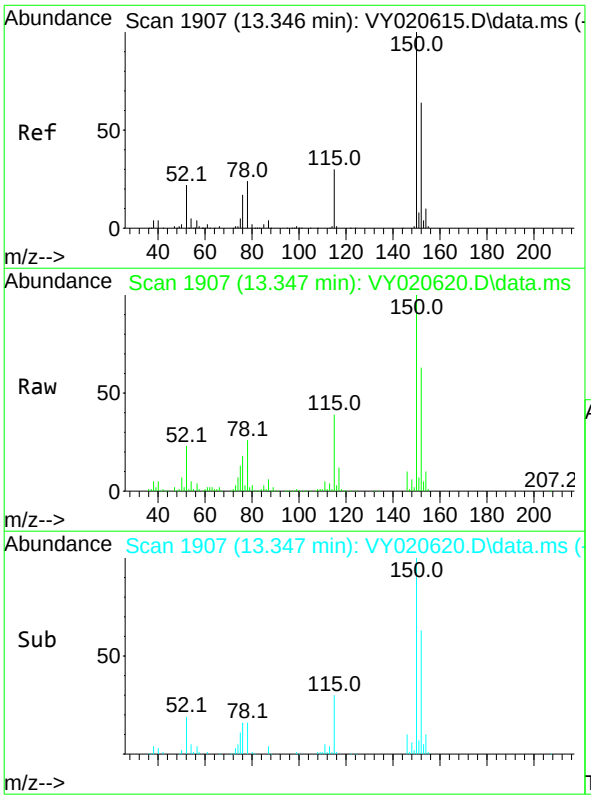
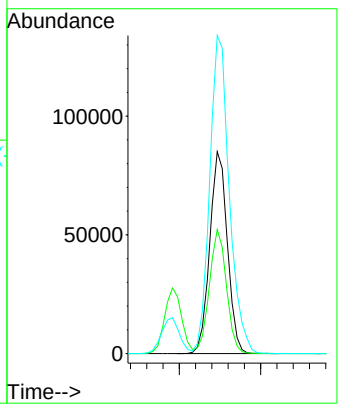


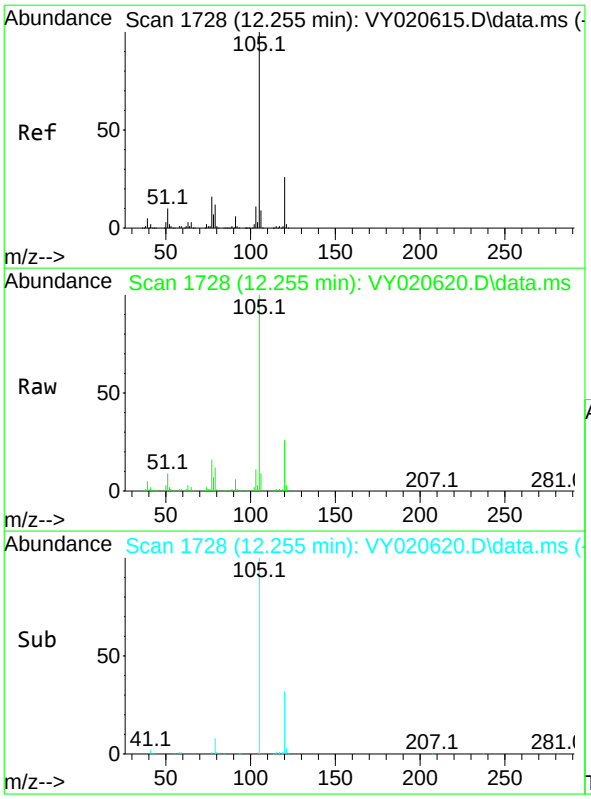




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:152 Resp: 127757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.6 | 30.2 | 90.6 |
| 150 | 175.1 | 0.0 | 355.4 |

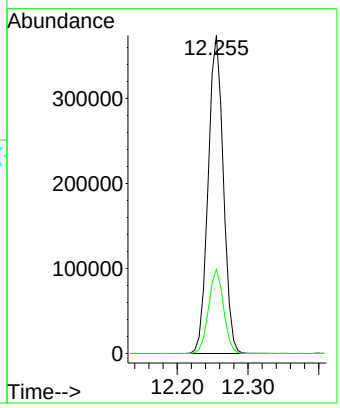





#73
Isopropylbenzene
Concen: 49.908 ug/l
RT: 12.255 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:105 Resp: 556414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

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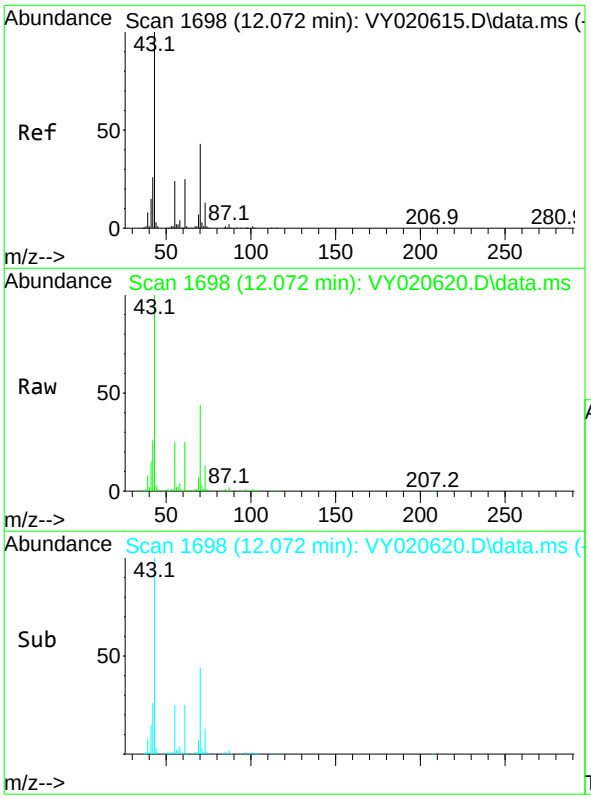
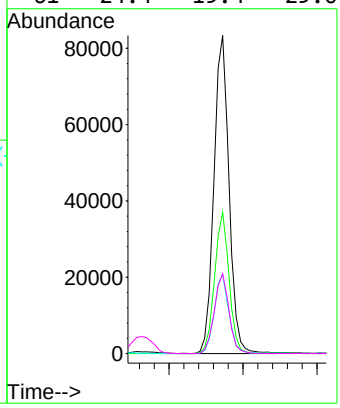
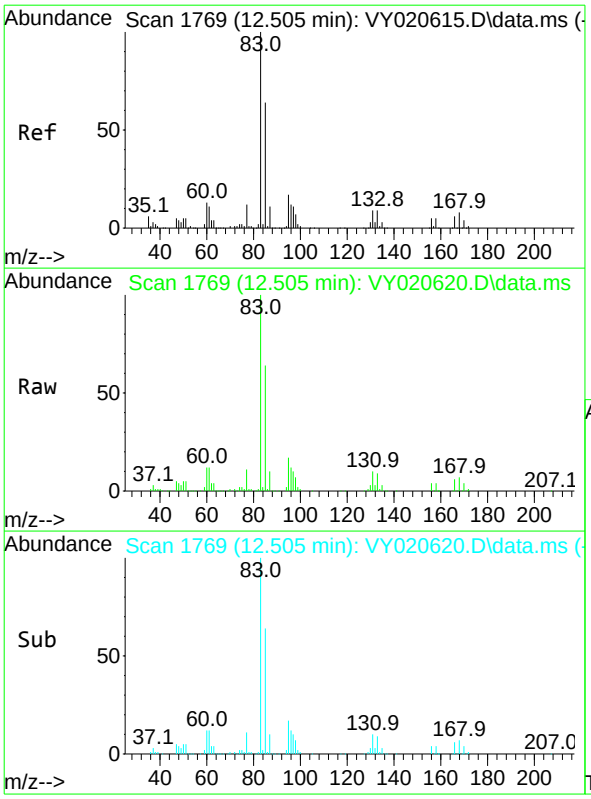



#74
N-amyl acetate
Concen: 45.328 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 118269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.7 | 34.2 | 51.2 |
| 55 | 24.2 | 19.6 | 29.4 |
| 61 | 24.4 | 19.4 | 29.0 |

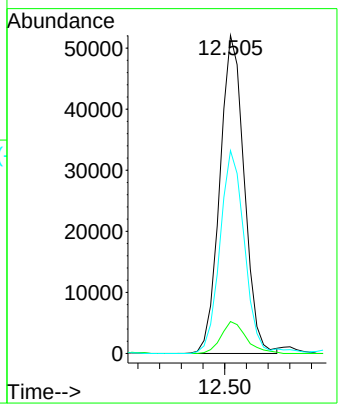





#75
1,1,2,2-Tetrachloroethane
Concen: 44.824 ug/l
RT: 12.505 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 83 Resp: 81117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 5.2 | 15.6 |
| 85 | 64.7 | 32.5 | 97.4 |




**Instrument :**
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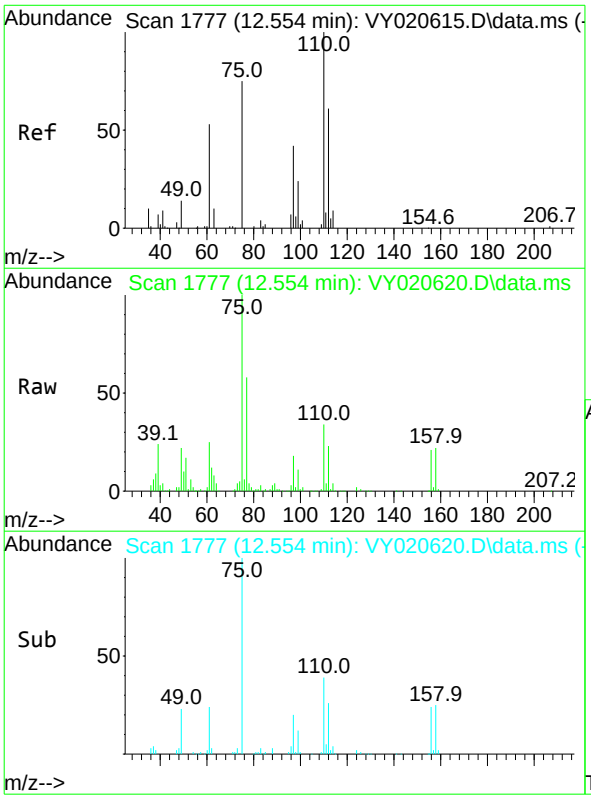
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

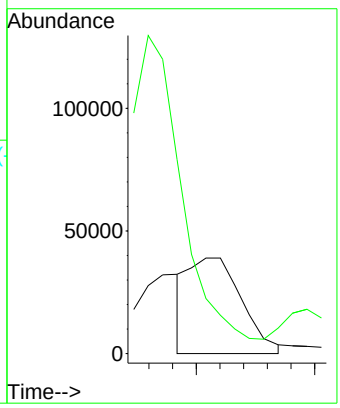
Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

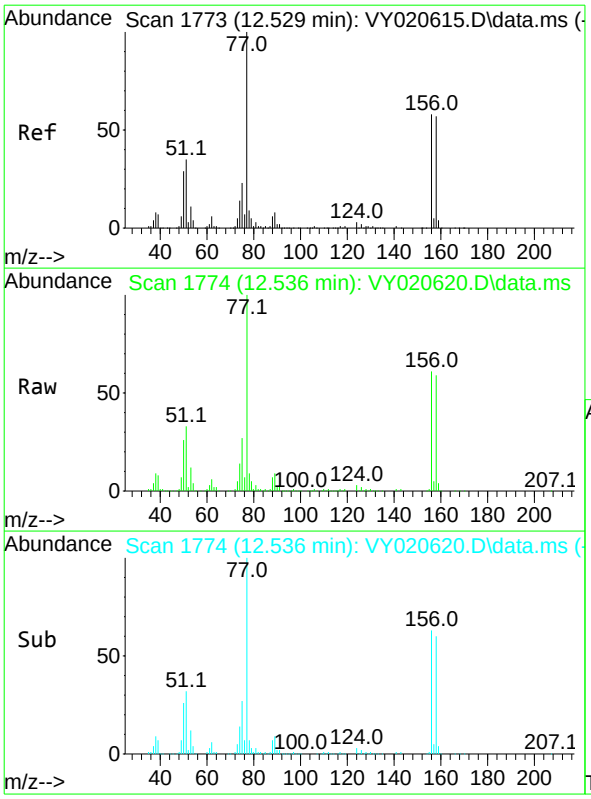



#76
1,2,3-Trichloropropane
Concen: 45.834 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 75 Resp: 60828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

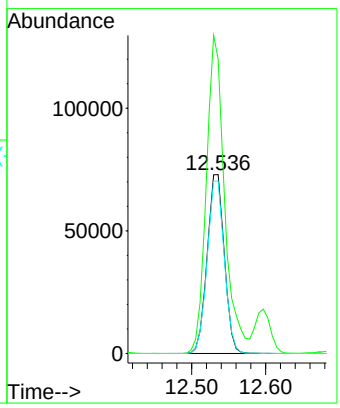





#77
Bromobenzene
Concen: 48.267 ug/l
RT: 12.536 min Scan# 17
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:156 Resp: 117217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 190.2 | 94.2 | 282.4 |
| 158 | 96.8 | 48.9 | 146.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

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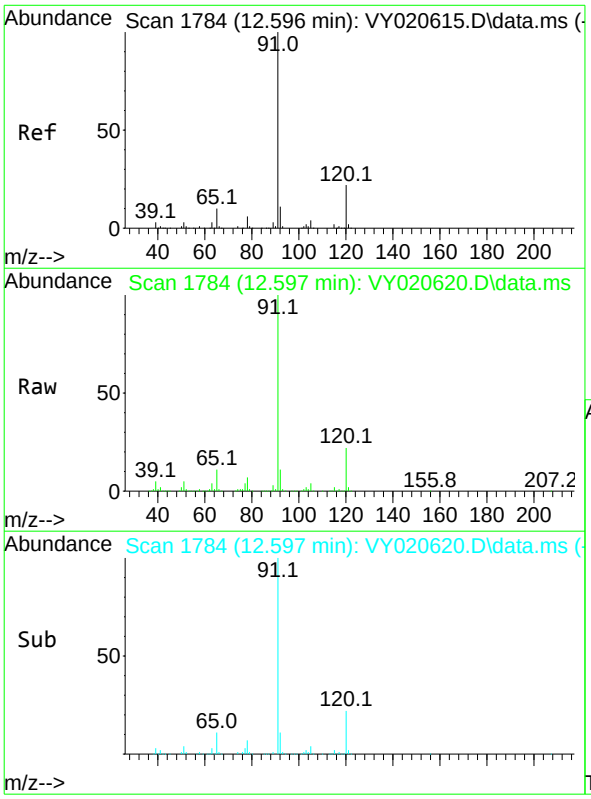
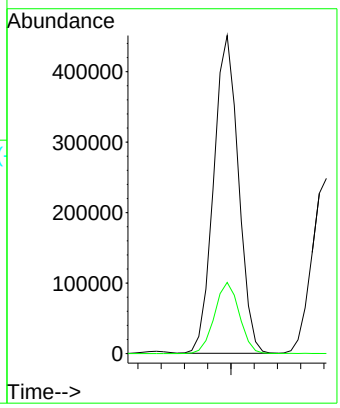
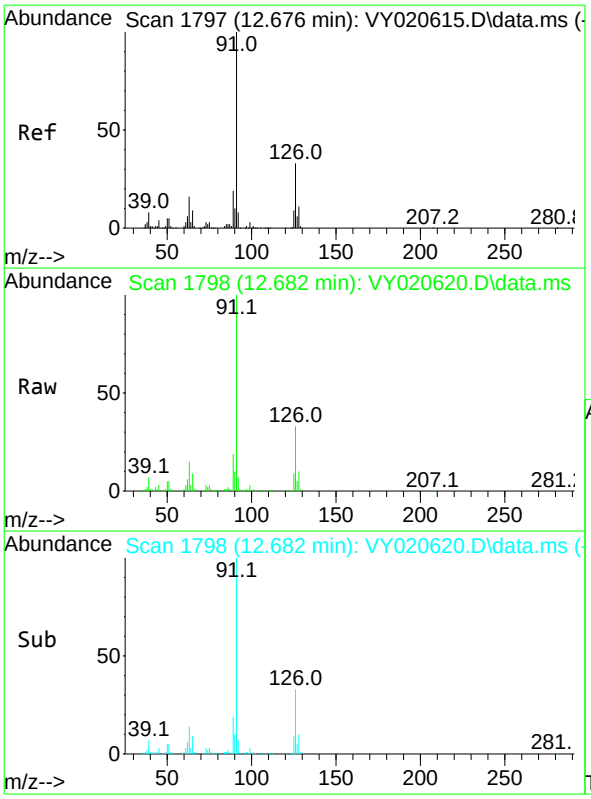



#78
n-propylbenzene
Concen: 49.775 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 91 Resp: 668577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.3 | 11.1 | 33.1 |

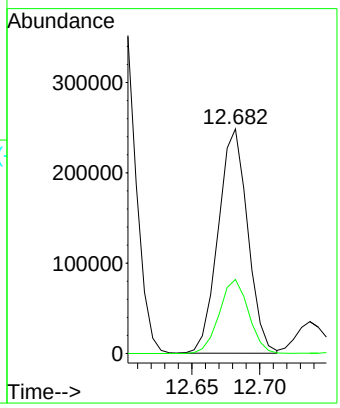





#79
2-Chlorotoluene
Concen: 49.628 ug/l
RT: 12.682 min Scan# 17
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 91 Resp: 375047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.8 | 16.6 | 49.7 |




**Instrument :**
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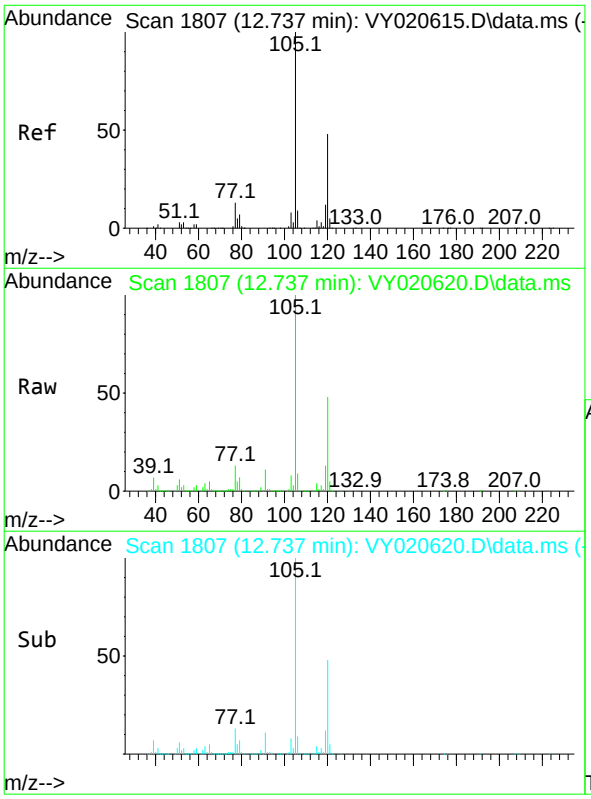
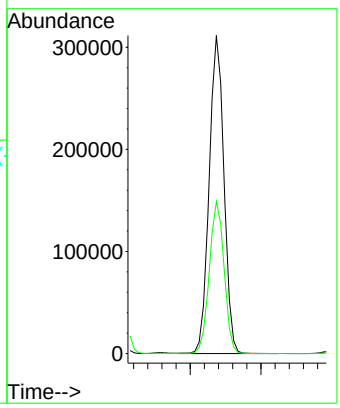
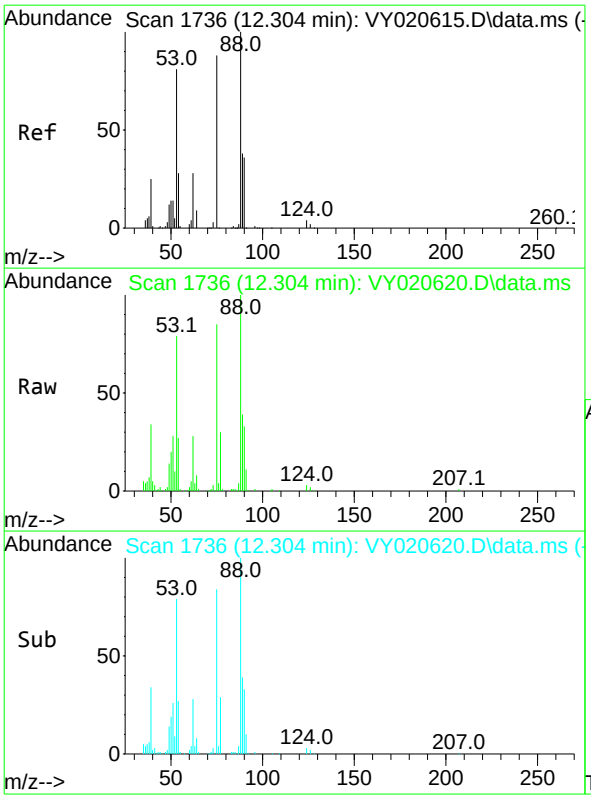



#80
1,3,5-Trimethylbenzene
Concen: 49.995 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:105 Resp: 452266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.9 | 71.7 |

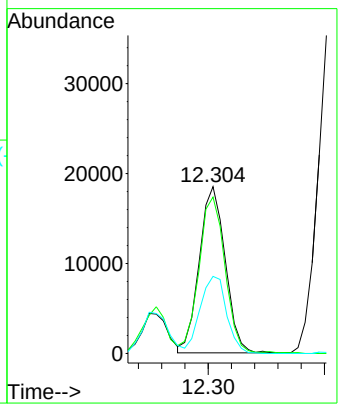





#81
trans-1,4-Dichloro-2-butene
Concen: 45.313 ug/l
RT: 12.304 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 75 Resp: 28650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.4 | 75.4 | 113.2 |
| 89 | 47.1 | 37.0 | 55.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

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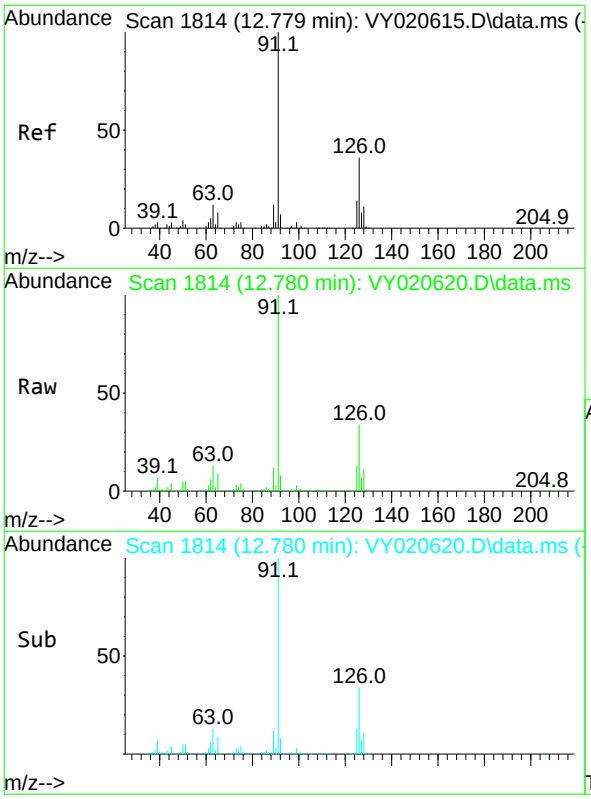
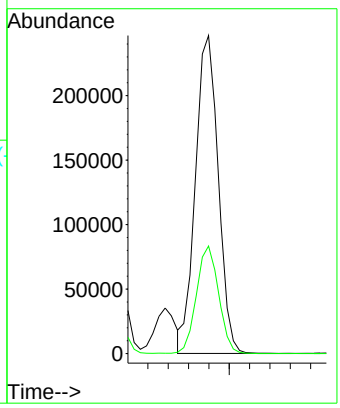
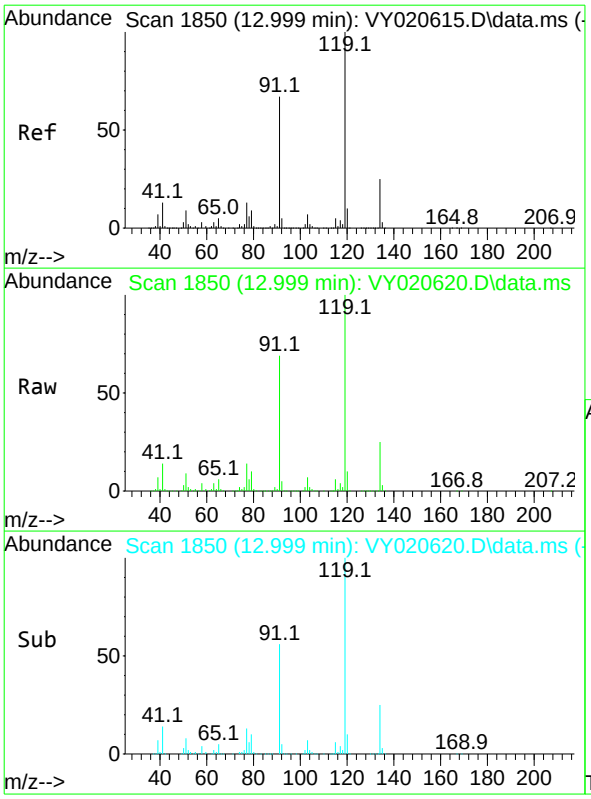



#82
4-Chlorotoluene
Concen: 48.929 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 91 Resp: 383617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.0 | 16.6 | 49.7 |






#83
tert-Butylbenzene
Concen: 49.469 ug/l
RT: 12.999 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:119 Resp: 405285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.1 | 32.9 | 98.6 |
| 134 | 26.2 | 13.1 | 39.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
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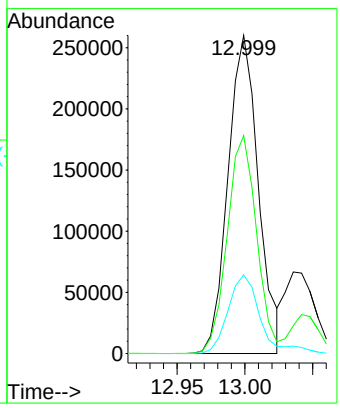
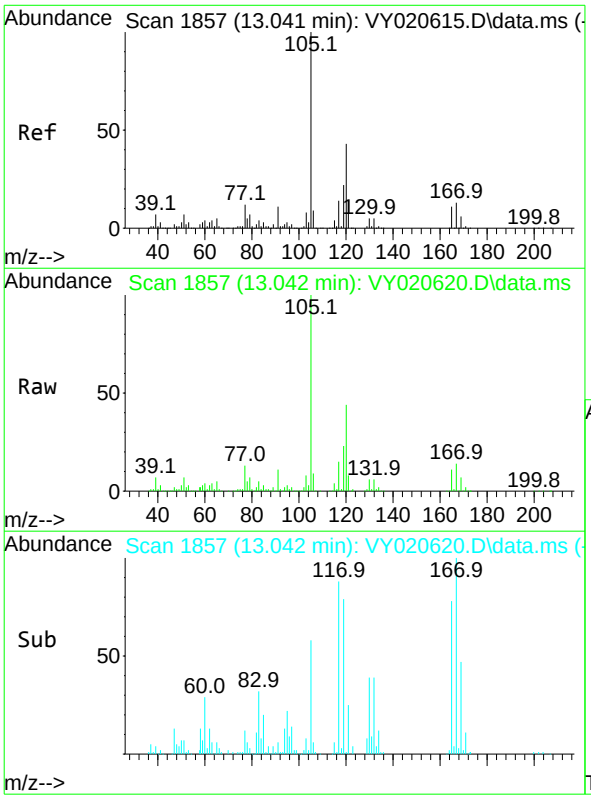
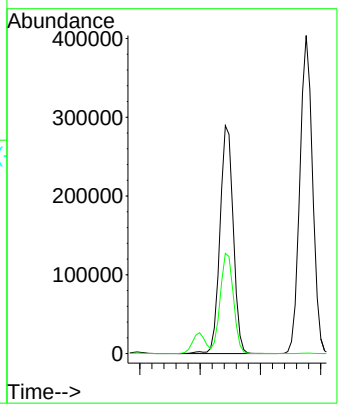


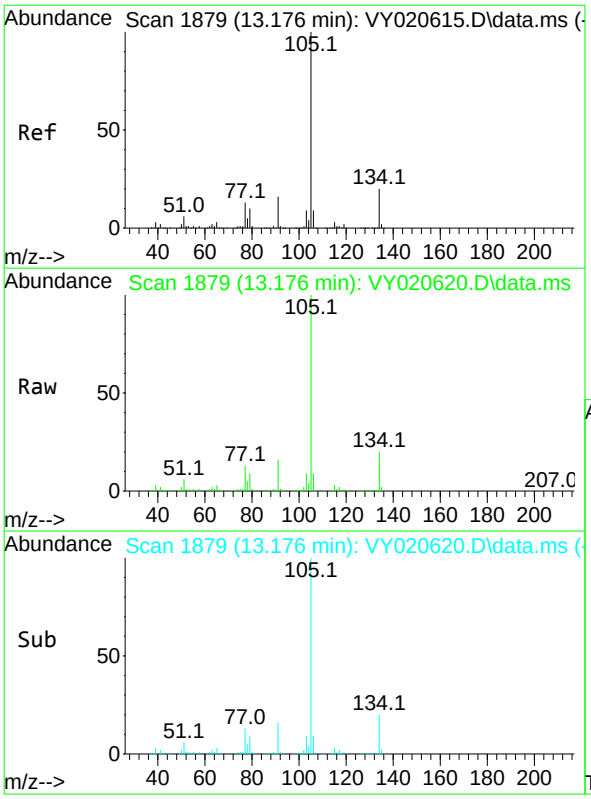




#84
1,2,4-Trimethylbenzene
Concen: 49.877 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:105 Resp: 442582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.7 | 21.8 | 65.4 |

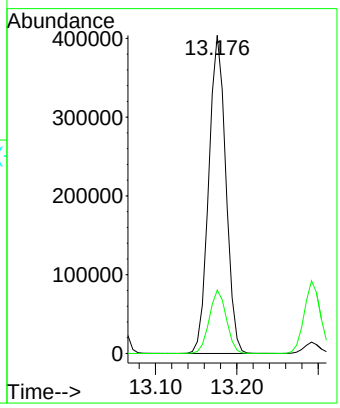





#85
sec-Butylbenzene
Concen: 49.451 ug/l
RT: 13.176 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:105 Resp: 589060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.0 | 30.0 |

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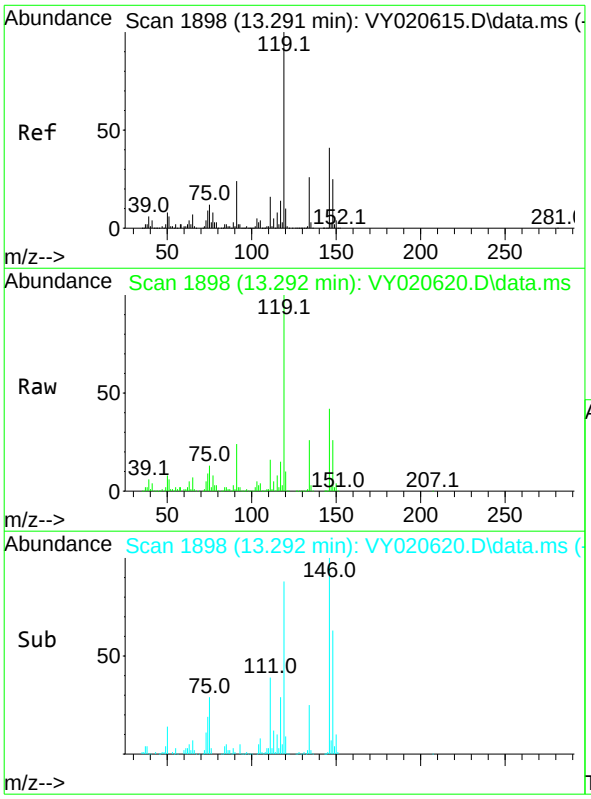
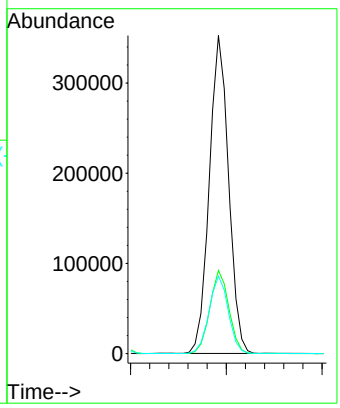
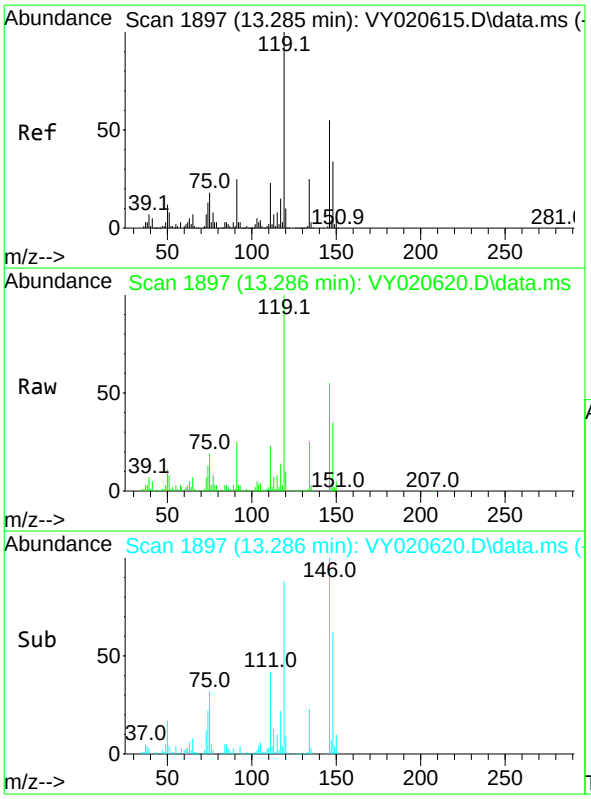



#86
p-Isopropyltoluene
Concen: 50.187 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:119 Resp: 492898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.9 | 38.6 |
| 91 | 24.2 | 12.1 | 36.3 |

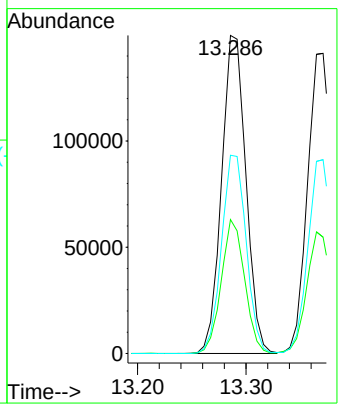





#87
1,3-Dichlorobenzene
Concen: 48.653 ug/l
RT: 13.286 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:146 Resp: 233241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 20.6 | 61.8 |
| 148 | 63.2 | 31.4 | 94.0 |

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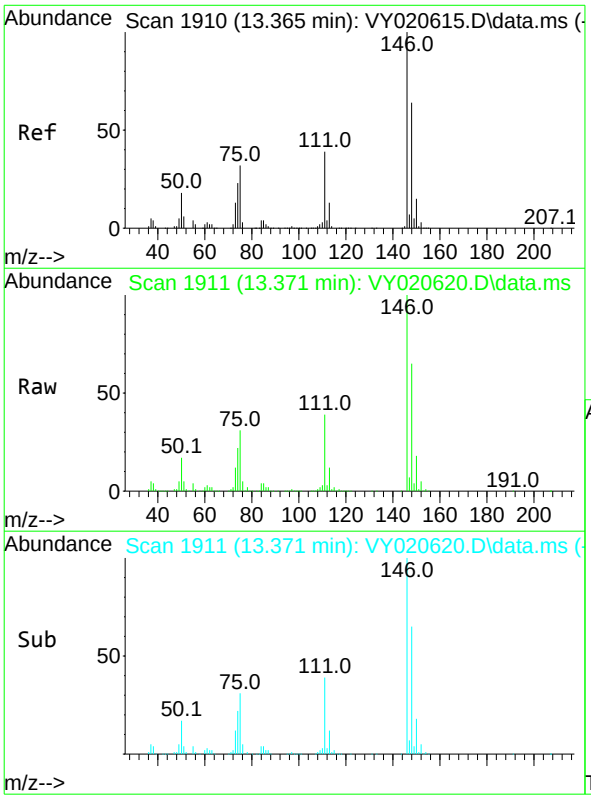
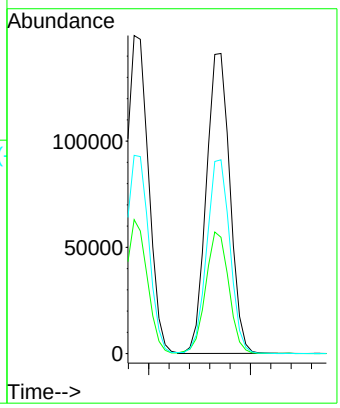
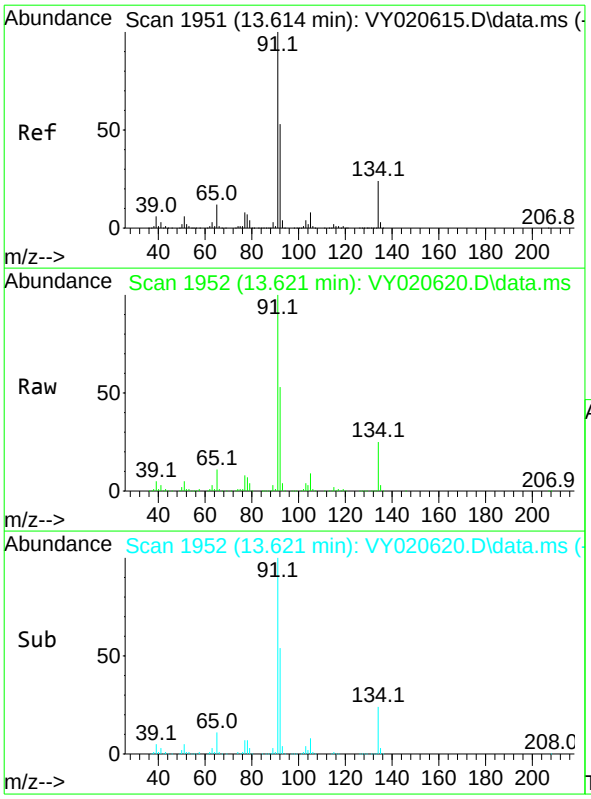



#88
1,4-Dichlorobenzene
Concen: 47.888 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:146 Resp: 227374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 19.6 | 58.7 |
| 148 | 63.6 | 31.9 | 95.5 |

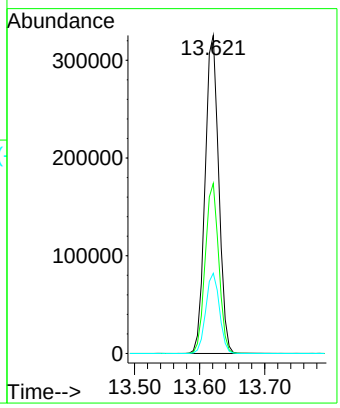





#89
n-Butylbenzene
Concen: 50.725 ug/l
RT: 13.621 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 91 Resp: 472143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.1 | 26.8 | 80.4 |
| 134 | 25.2 | 12.5 | 37.5 |

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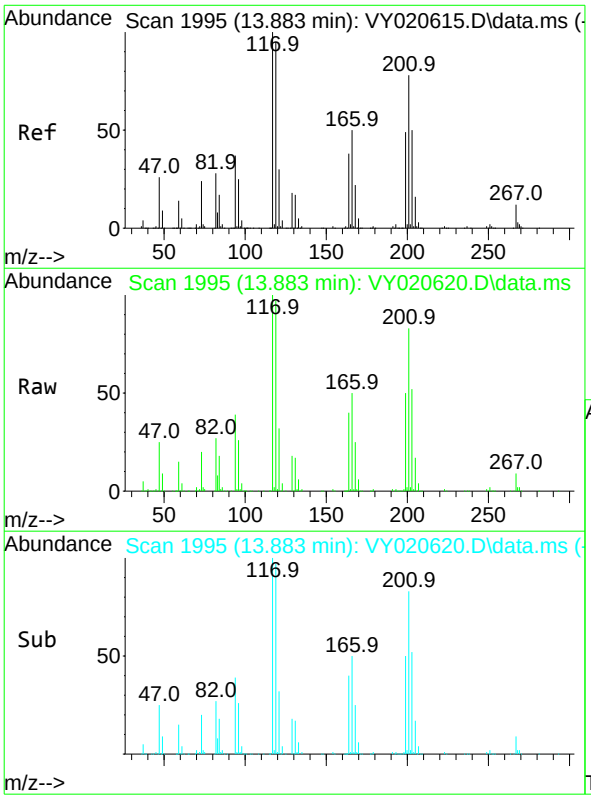
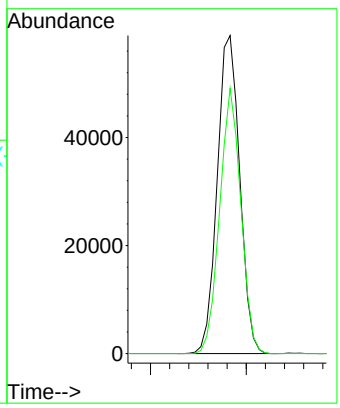
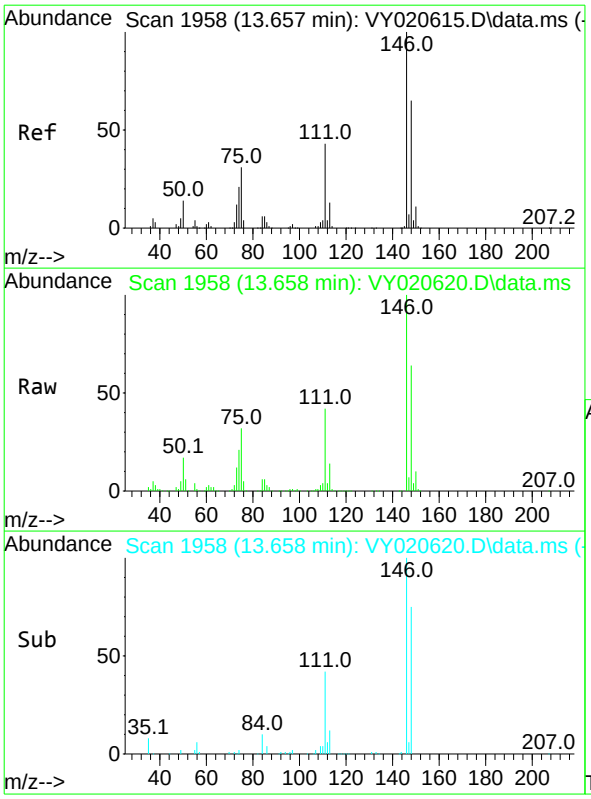



#90
Hexachloroethane
Concen: 49.342 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:117 Resp: 96035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.5 | 39.1 | 117.3 |

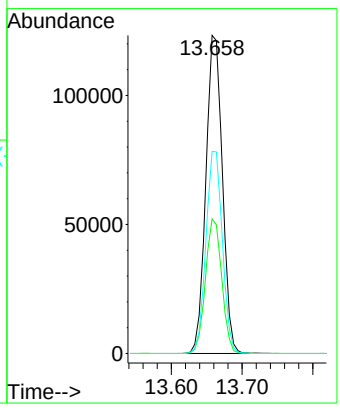





#91
1,2-Dichlorobenzene
Concen: 48.162 ug/l
RT: 13.658 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:146 Resp: 200049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.8 | 21.3 | 63.7 |
| 148 | 63.3 | 32.0 | 96.0 |

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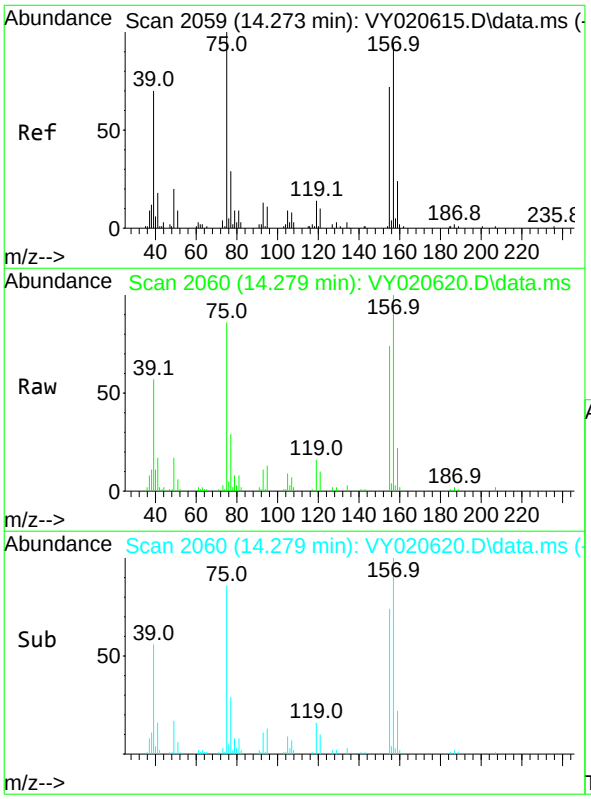
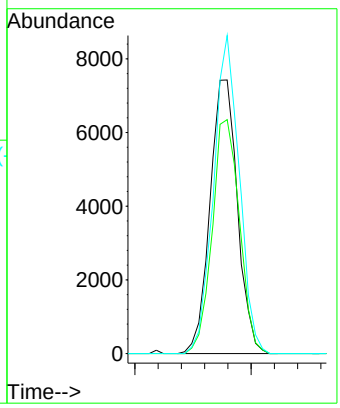
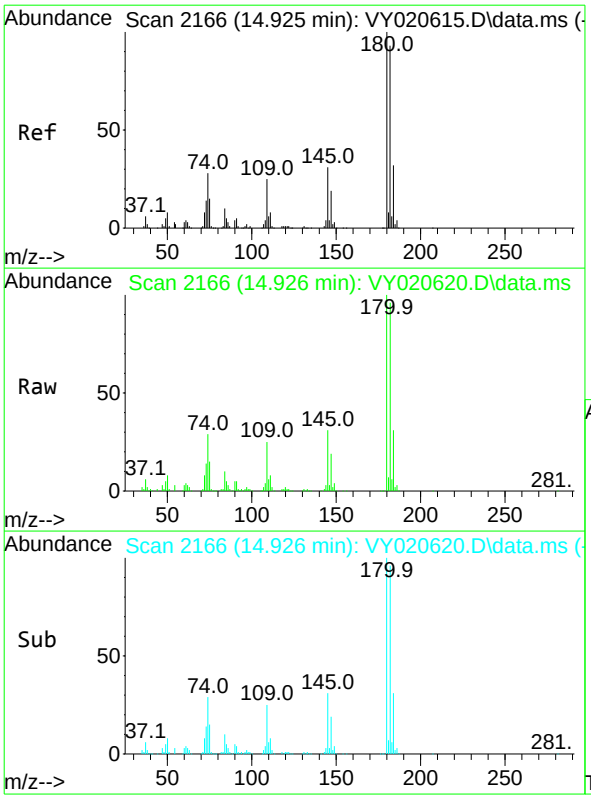



#92
1,2-Dibromo-3-Chloropropane
Concen: 41.418 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 75 Resp: 12169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 84.9 | 41.1 | 123.3 |
| 157 | 109.1 | 52.9 | 158.8 |

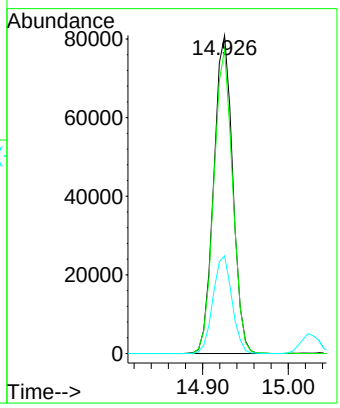





#93
1,2,4-Trichlorobenzene
Concen: 49.388 ug/l
RT: 14.926 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:180 Resp: 124084

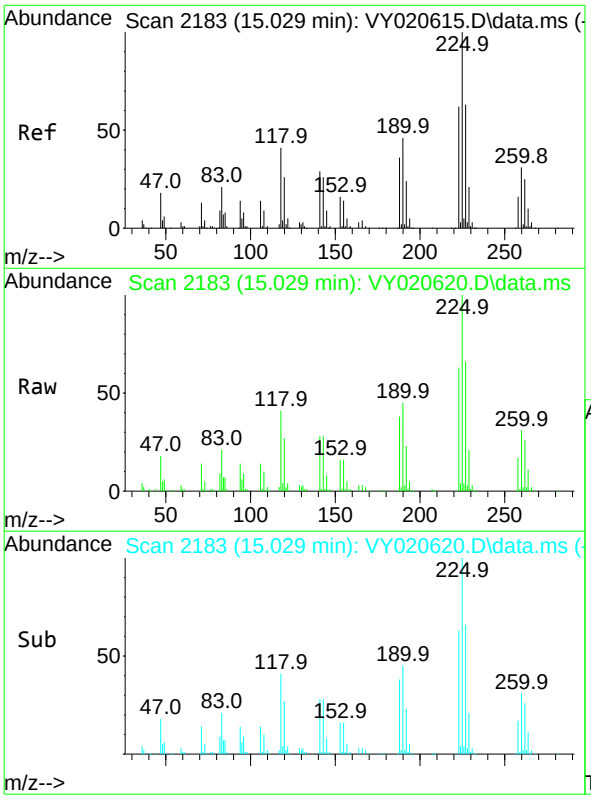
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 47.9 | 143.6 |
| 145 | 30.8 | 15.6 | 46.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

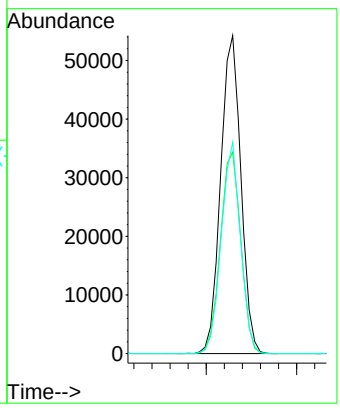
Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024

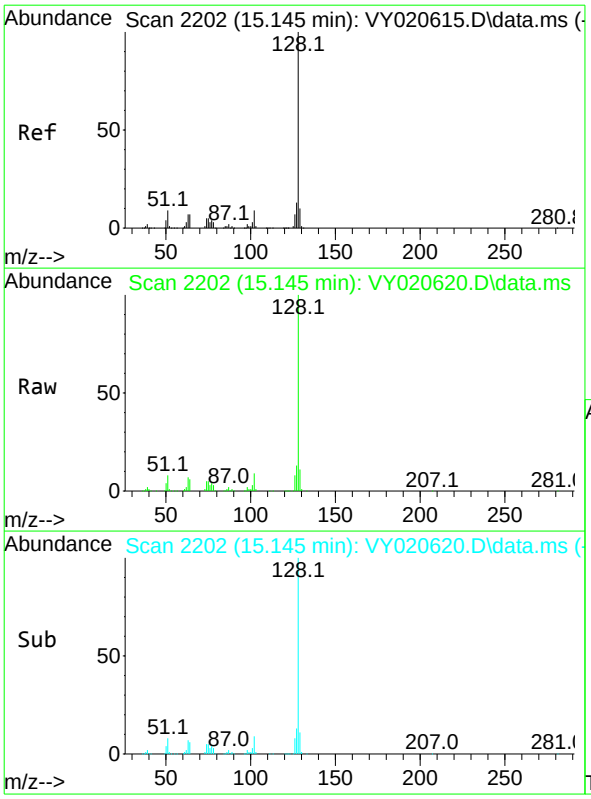



#94
Hexachlorobutadiene
Concen: 51.372 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:225 Resp: 84375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.8 | 31.8 | 95.3 |
| 227 | 63.0 | 32.2 | 96.6 |

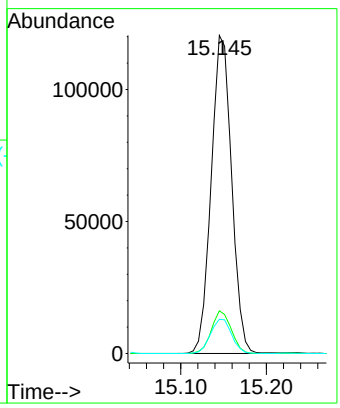





#95
Naphthalene
Concen: 46.344 ug/l
RT: 15.145 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:128 Resp: 199622

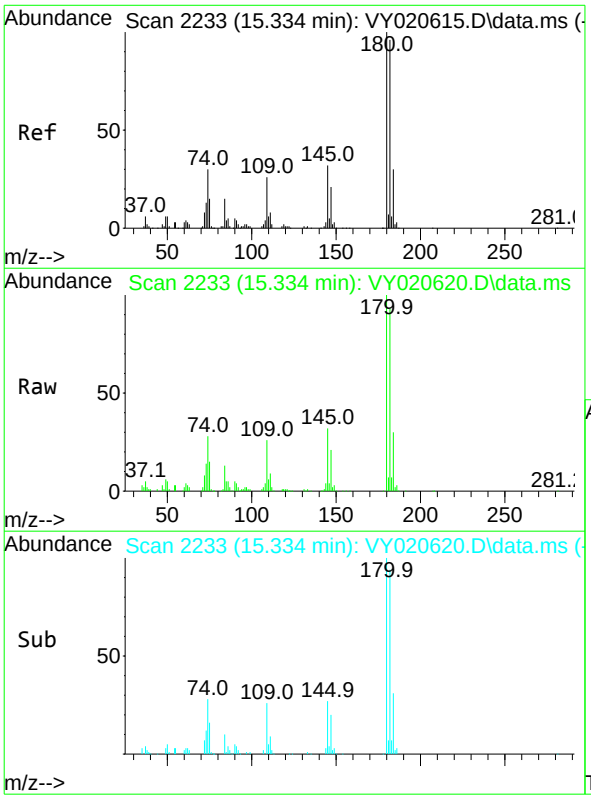
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.7 | 16.1 |
| 129 | 11.2 | 8.5 | 12.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

**Manual Integrations APPROVED**

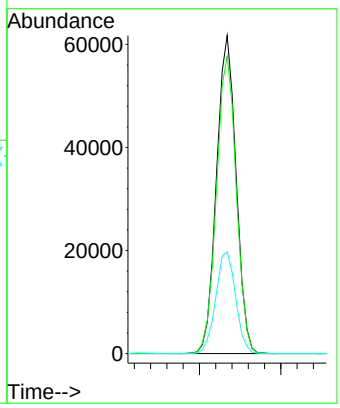
Reviewed By :Romaben Patel 12/18/2024
Supervised By :Mahesh Dadoda 12/18/2024




#96
1,2,3-Trichlorobenzene
Concen: 48.662 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:180 Resp: 103298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 47.3 | 141.9 |
| 145 | 32.5 | 16.0 | 48.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 103 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.625 | 0.596 | 4.6 | 99 | 0.00 |
| 3 | P | Chloromethane | 0.463 | 0.419 | 9.5 | 100 | 0.00 |
| 4 | C | Vinyl Chloride | 0.431 | 0.416 | 3.5# | 115 | 0.00 |
| 5 | T | Bromomethane | 0.277 | 0.268 | 3.2 | 120 | 0.00 |
| 6 | T | Chloroethane | 0.266 | 0.258 | 3.0 | 125 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.901 | 0.849 | 5.8 | 110 | 0.00 |
| 8 | T | Diethyl Ether | 0.316 | 0.278 | 12.0 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.646 | 0.641 | 0.8 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 0.719 | 0.721 | -0.3 | 107 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.071 | 0.041 | 42.3# | 84 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.627 | 0.629 | -0.3# | 109 | 0.00 |
| 13 | T | Acrolein | 0.026 | 0.015 | 42.3# | 89 | 0.00 |
| 14 | T | Allyl chloride | 1.098 | 1.120 | -2.0 | 112 | 0.00 |
| 15 | T | Acrylonitrile | 0.151 | 0.128 | 15.2 | 85 | 0.00 |
| 16 | T | Acetone | 0.125 | 0.148 | -18.4 | 155# | 0.00 |
| 17 | T | Carbon Disulfide | 2.040 | 2.058 | -0.9 | 109 | 0.00 |
| 18 | T | Methyl Acetate | 0.373 | 0.328 | 12.1 | 96 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.618 | 1.468 | 9.3 | 91 | 0.00 |
| 20 | T | Methylene Chloride | 0.681 | 0.635 | 6.8 | 106 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.703 | 0.684 | 2.7 | 99 | 0.00 |
| 22 | T | Diisopropyl ether | 2.229 | 2.150 | 3.5 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 1.263 | 1.144 | 9.4 | 89 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.306 | 1.275 | 2.4 | 99 | 0.00 |
| 25 | T | 2-Butanone | 0.204 | 0.187 | 8.3 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.235 | 1.147 | 7.1 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.809 | 0.780 | 3.6 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.441 | 0.453 | -2.7 | 94 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.128 | 0.104 | 18.8 | 81 | 0.00 |
| 30 | C | Chloroform | 1.528 | 1.311 | 14.2# | 98 | 0.00 |
| 31 | T | Cyclohexane | 1.249 | 1.147 | 8.2 | 98 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.200 | 1.172 | 2.3 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.548 | 0.460 | 16.1 | 83 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.352 | 0.315 | 10.5 | 87 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.643 | 0.635 | 1.2 | 99 | 0.00 |
| 37 | T | Ethyl Acetate | 0.302 | 0.257 | 14.9 | 86 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.711 | 0.708 | 0.4 | 101 | 0.00 |
| 39 | T | Methylcyclohexane | 0.837 | 0.819 | 2.2 | 98 | 0.00 |
| 40 | TM | Benzene | 1.883 | 1.859 | 1.3 | 99 | 0.00 |
| 41 | T | Methacrylonitrile | 0.160 | 0.152 | 5.0 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.468 | 6.4 | 93 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.572 | 0.498 | 12.9 | 85 | 0.00 |
| 44 | TM | Trichloroethene | 0.463 | 0.459 | 0.9 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.440 | 0.429 | 2.5# | 98 | 0.00 |
| 46 | T | Dibromomethane | 0.233 | 0.215 | 7.7 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 0.628 | 0.606 | 3.5 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.272 | 0.241 | 11.4 | 87 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.002 | 33.3# | 81 | 0.00 |
| 50 | S | Toluene-d8 | 1.233 | 1.139 | 7.6 | 89 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.302 | 0.253 | 16.2 | 84 | 0.00 |
| 52 | CM | Toluene | 1.170 | 1.149 | 1.8# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.586 | 0.560 | 4.4 | 92 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.694 | 0.683 | 1.6 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.308 | 0.283 | 8.1 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.446 | 0.415 | 7.0 | 90 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.548 | 0.514 | 6.2 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.188 | 0.183 | 2.7 | 106 | 0.00 |
| 59 | T | 2-Hexanone | 0.194 | 0.184 | 5.2 | 92 | 0.00 |
| 60 | T | Dibromochloromethane | 0.411 | 0.388 | 5.6 | 92 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.286 | 0.263 | 8.0 | 91 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.482 | 0.415 | 13.9 | 86 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 64 | T | Tetrachloroethene | 0.470 | 0.467 | 0.6 | 101 | 0.00 |
| 65 | PM | Chlorobenzene | 1.398 | 1.370 | 2.0 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.478 | 0.469 | 1.9 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 2.579 | 2.570 | 0.3# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 0.959 | 0.954 | 0.5 | 98 | 0.00 |
| 69 | T | o-Xylene | 0.895 | 0.887 | 0.9 | 97 | 0.00 |
| 70 | T | Styrene | 1.495 | 1.490 | 0.3 | 97 | 0.00 |
| 71 | P | Bromoform | 0.269 | 0.244 | 9.3 | 89 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 4.363 | 4.355 | 0.2 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 1.021 | 0.926 | 9.3 | 85 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.708 | 0.635 | 10.3 | 88 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.519 | 0.476 | 8.3 | 90 | 0.00 |
| 77 | T | Bromobenzene | 0.950 | 0.917 | 3.5 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 5.257 | 5.233 | 0.5 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.958 | 2.936 | 0.7 | 98 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.540 | 3.540 | 0.0 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.247 | 0.224 | 9.3 | 86 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.068 | 3.003 | 2.1 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.206 | 3.172 | 1.1 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.473 | 3.464 | 0.3 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.662 | 4.611 | 1.1 | 97 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.844 | 3.858 | -0.4 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.876 | 1.826 | 2.7 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.858 | 1.780 | 4.2 | 95 | 0.00 |
| 89 | T | n-Butylbenzene | 3.643 | 3.696 | -1.5 | 97 | 0.00 |
| 90 | T | Hexachloroethane | 0.762 | 0.752 | 1.3 | 97 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.626 | 1.566 | 3.7 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.115 | 0.095 | 17.4 | 83 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.983 | 0.971 | 1.2 | 94 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.643 | 0.660 | -2.6 | 99 | 0.00 |
| 95 | T | Naphthalene | 1.686 | 1.563 | 7.3 | 87 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.831 | 0.809 | 2.6 | 92 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 103 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 47.686 | 4.6 | 99 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 45.240 | 9.5 | 100 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 48.277 | 3.4# | 115 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 48.405 | 3.2 | 120 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 48.520 | 3.0 | 125 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 47.080 | 5.8 | 110 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 44.007 | 12.0 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 49.613 | 0.8 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.161 | -0.3 | 107 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 166.993 | 33.2# | 84 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 50.176 | -0.4# | 109 | 0.00 |
| 13 | T | Acrolein | 250.000 | 145.056 | 42.0# | 89 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 50.975 | -2.0 | 112 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 211.661 | 15.3 | 85 | 0.00 |
| 16 | T | Acetone | 250.000 | 343.570 | -37.4# | 155 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.444 | -0.9 | 109 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 44.029 | 11.9 | 96 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 45.379 | 9.2 | 91 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 46.658 | 6.7 | 106 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.656 | 2.7 | 99 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 48.223 | 3.6 | 96 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 226.581 | 9.4 | 89 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 48.802 | 2.4 | 99 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 230.232 | 7.9 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 46.471 | 7.1 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.202 | 3.6 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 51.402 | -2.8 | 94 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 203.060 | 18.8 | 81 | 0.00 |
| 30 | C | Chloroform | 50.000 | 49.995 | 0.0# | 98 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 45.921 | 8.2 | 98 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.837 | 2.3 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 41.971 | 16.1 | 83 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 99 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 44.743 | 10.5 | 87 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.418 | 1.2 | 99 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 42.490 | 15.0 | 86 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 49.800 | 0.4 | 101 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 48.913 | 2.2 | 98 | 0.00 |
| 40 | TM | Benzene | 50.000 | 49.357 | 1.3 | 99 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 47.631 | 4.7 | 98 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.869 | 6.3 | 93 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 43.528 | 12.9 | 85 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.555 | 0.9 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 48.695 | 2.6# | 98 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 46.265 | 7.5 | 93 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.208 | 3.6 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 44.268 | 11.5 | 87 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 816.119 | 18.4 | 81 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 46.169 | 7.7 | 89 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 209.670 | 16.1 | 84 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.073 | 1.9# | 98 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 47.810 | 4.4 | 92 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 49.184 | 1.6 | 96 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 45.952 | 8.1 | 93 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 46.525 | 7.0 | 90 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 46.882 | 6.2 | 92 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 243.610 | 2.6 | 106 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 236.822 | 5.3 | 92 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 47.121 | 5.8 | 92 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 45.952 | 8.1 | 91 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 42.982 | 14.0 | 86 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 49.626 | 0.7 | 101 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 48.986 | 2.0 | 97 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 49.083 | 1.8 | 97 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.815 | 0.4# | 98 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 99.430 | 0.6 | 98 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 49.568 | 0.9 | 97 | 0.00 |
| 70 | T | Styrene | 50.000 | 49.827 | 0.3 | 97 | 0.00 |
| 71 | P | Bromoform | 50.000 | 45.451 | 9.1 | 89 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 98 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.908 | 0.2 | 98 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 45.328 | 9.3 | 85 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 44.824 | 10.4 | 88 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 45.834 | 8.3 | 90 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 48.267 | 3.5 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 49.775 | 0.5 | 97 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.628 | 0.7 | 98 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.995 | 0.0 | 98 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 45.313 | 9.4 | 86 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 48.929 | 2.1 | 96 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.469 | 1.1 | 97 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 49.877 | 0.2 | 96 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 49.451 | 1.1 | 97 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.187 | -0.4 | 97 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.653 | 2.7 | 96 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 47.888 | 4.2 | 95 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 50.725 | -1.5 | 97 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.342 | 1.3 | 97 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.162 | 3.7 | 96 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 41.418 | 17.2 | 83 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 49.388 | 1.2 | 94 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 51.372 | -2.7 | 99 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 46.344 | 7.3 | 87 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 48.662 | 2.7 | 92 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP
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Fax : 908 789 8922

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date(s): 12/26/2024 12/26/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:31 11:51

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY020706.D RRF010 = VY020707.D RRF020 = VY020708.D
RRF050 = VY020709.D RRF150 = VY020710.D RRF100 = VY020711.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF150 | RRF100 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Vinyl Chloride | 0.168 | 0.195 | 0.176 | 0.192 | 0.178 | 0.181 | 0.182 | 5.6 |
| 1,1-Dichloroethene | 0.326 | 0.359 | 0.330 | 0.352 | 0.340 | 0.344 | 0.342 | 3.7 |
| Acetone | 0.050 | 0.068 | 0.045 | 0.054 | 0.048 | 0.046 | 0.052 | 16.8 |
| Methyl tert-butyl Ether | 0.880 | 1.004 | 0.922 | 1.015 | 0.942 | 0.951 | 0.952 | 5.3 |
| Methylene Chloride | 0.324 | 0.365 | 0.328 | 0.343 | 0.329 | 0.338 | 0.338 | 4.5 |
| trans-1,2-Dichloroethene | 0.339 | 0.378 | 0.356 | 0.391 | 0.368 | 0.378 | 0.368 | 5 |
| 1,1-Dichloroethane | 0.571 | 0.661 | 0.596 | 0.620 | 0.591 | 0.620 | 0.609 | 5.1 |
| 2-Butanone | 0.069 | 0.069 | 0.066 | 0.080 | 0.071 | 0.067 | 0.070 | 7 |
| Carbon Tetrachloride | 0.556 | 0.644 | 0.581 | 0.614 | 0.593 | 0.606 | 0.599 | 5 |
| cis-1,2-Dichloroethene | 0.419 | 0.460 | 0.426 | 0.462 | 0.432 | 0.447 | 0.441 | 4.1 |
| Chloroform | 0.839 | 0.821 | 0.753 | 0.788 | 0.742 | 0.762 | 0.784 | 5 |
| 1,1,1-Trichloroethane | 0.814 | 0.897 | 0.826 | 0.859 | 0.816 | 0.831 | 0.840 | 3.8 |
| Benzene | 0.969 | 1.104 | 1.040 | 1.089 | 1.041 | 1.083 | 1.054 | 4.7 |
| 1,2-Dichloroethane | 0.297 | 0.352 | 0.325 | 0.364 | 0.342 | 0.348 | 0.338 | 7 |
| Trichloroethene | 0.288 | 0.336 | 0.315 | 0.324 | 0.309 | 0.317 | 0.315 | 5.1 |
| Toluene | 0.654 | 0.751 | 0.722 | 0.745 | 0.723 | 0.741 | 0.723 | 4.9 |
| Tetrachloroethene | 0.308 | 0.360 | 0.348 | 0.351 | 0.337 | 0.346 | 0.342 | 5.3 |
| Chlorobenzene | 0.925 | 1.044 | 0.976 | 1.002 | 0.943 | 0.985 | 0.979 | 4.3 |
| Ethyl Benzene | 1.540 | 1.810 | 1.715 | 1.778 | 1.682 | 1.743 | 1.711 | 5.6 |
| m/p-Xylenes | 0.590 | 0.691 | 0.649 | 0.675 | 0.643 | 0.667 | 0.653 | 5.4 |
| o-Xylene | 0.552 | 0.666 | 0.639 | 0.650 | 0.603 | 0.632 | 0.624 | 6.6 |
| n-propylbenzene | 3.521 | 4.231 | 3.972 | 3.896 | 3.774 | 3.902 | 3.883 | 6 |
| tert-Butylbenzene | 2.487 | 2.888 | 2.751 | 2.727 | 2.632 | 2.687 | 2.695 | 4.9 |
| 1,2,4-Trimethylbenzene | 2.513 | 2.946 | 2.860 | 2.888 | 2.777 | 2.867 | 2.809 | 5.5 |
| sec-Butylbenzene | 3.316 | 3.880 | 3.730 | 3.676 | 3.540 | 3.653 | 3.633 | 5.3 |
| 1,3-Dichlorobenzene | 1.428 | 1.670 | 1.567 | 1.578 | 1.529 | 1.579 | 1.559 | 5.1 |
| 1,4-Dichlorobenzene | 1.492 | 1.625 | 1.562 | 1.572 | 1.502 | 1.549 | 1.550 | 3.1 |
| n-Butylbenzene | 2.356 | 2.894 | 2.764 | 2.757 | 2.683 | 2.760 | 2.702 | 6.8 |
| 1,2-Dichlorobenzene | 1.197 | 1.374 | 1.362 | 1.410 | 1.328 | 1.347 | 1.336 | 5.5 |
| 1,2-Dichloroethane-d4 | 0.335 | 0.402 | 0.313 | 0.516 | 0.433 | 0.457 | 0.410 | 18.7 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

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

# VOLATILE ORGANICS INITIAL CALIBRATION DATA

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date(s): 12/26/2024 12/26/2024

Heated Purge: (Y/N) Y Calibration Time(s): 09:31 11:51

GC Column: RXI-624 ID: 0.25 (mm)

LAB FILE ID: RRF005 = VY020706.D RRF010 = VY020707.D RRF020 = VY020708.D
RRF050 = VY020709.D RRF150 = VY020710.D RRF100 = VY020711.D

| COMPOUND | RRF005 | RRF010 | RRF020 | RRF050 | RRF150 | RRF100 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dibromofluoromethane | 0.235 | 0.274 | 0.232 | 0.319 | 0.284 | 0.307 | 0.275 | 13.1 |
| Toluene-d8 | 0.733 | 0.883 | 0.733 | 1.227 | 1.093 | 1.158 | 0.971 | 22.4 |
| 4-Bromofluorobenzene | 0.303 | 0.378 | 0.319 | 0.426 | 0.373 | 0.397 | 0.366 | 12.8 |
| 1,4-Dioxane | 1.014 | 1.439 | 1.316 | 1.680 | 1.562 | 1.428 | 1.407 | 16.3 |

* Compounds with required minimum RRF and maximum %RSD values.
All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

# Response Factor Report GCVOA_Y

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y122624S.M
Title : SW846 8260
Last Update : Thu Dec 26 16:12:28 2024
Response Via : Initial Calibration

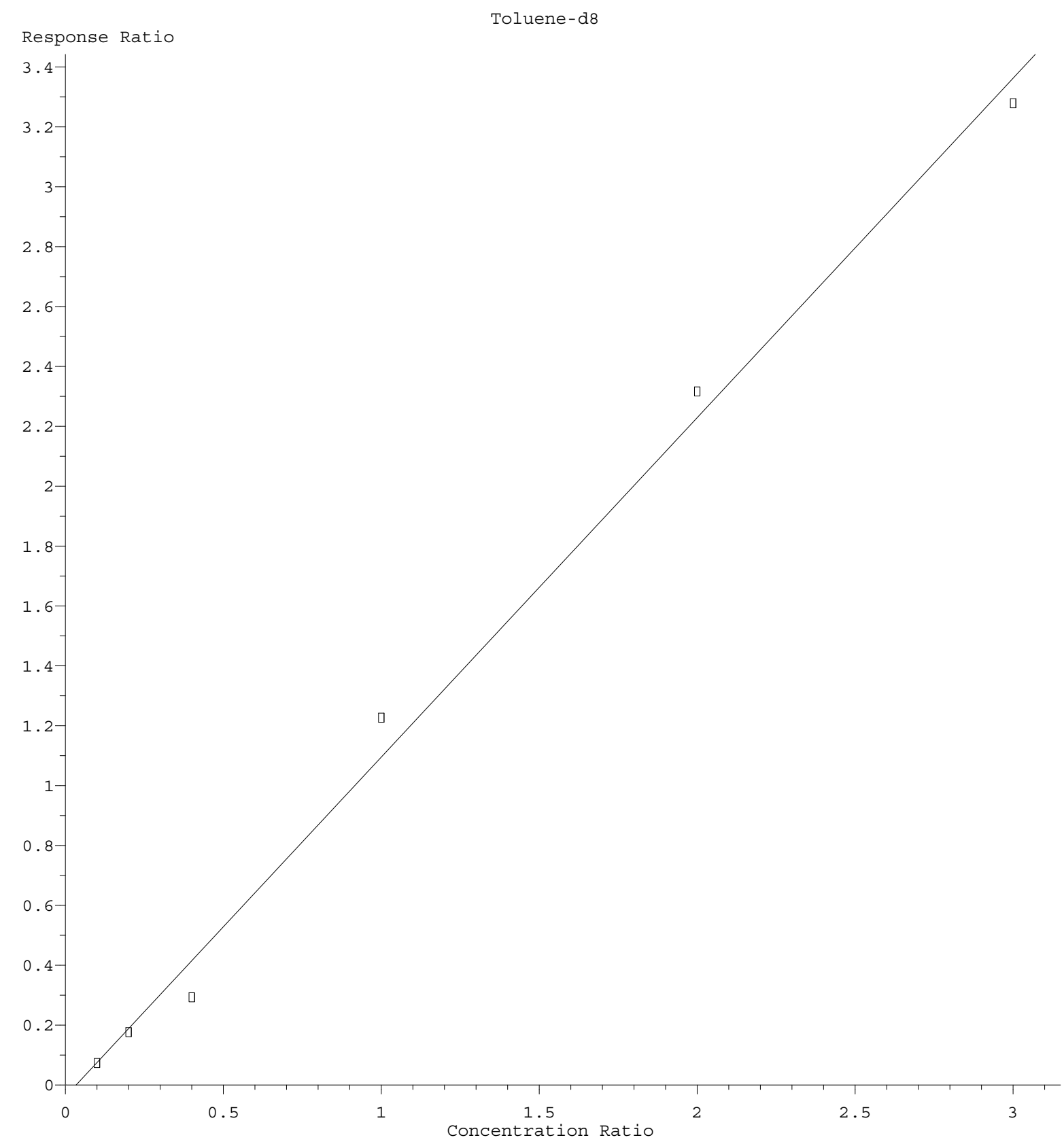
Calibration Files
5 =VY020706.D 10 =VY020707.D 20 =VY020708.D 50 =VY020709.D 100 =VY020711.D 150 =VY020710.D

| | | Compound | 5 | 10 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ----------ISTD---------- | | | | | | | |
| 2) | T | Dichlorodifluo... | 0.368 | 0.453 | 0.375 | 0.405 | 0.385 | 0.376 | 0.394 | 8.03 |
| 3) | P | Chloromethane | 0.136 | 0.154 | 0.131 | 0.157 | 0.155 | 0.148 | 0.147 | 7.55 |
| 4) | C | Vinyl Chloride | 0.168 | 0.195 | 0.176 | 0.192 | 0.181 | 0.178 | 0.182 | 5.65# |
| 5) | T | Bromomethane | 0.131 | 0.149 | 0.128 | 0.141 | 0.138 | 0.136 | 0.137 | 5.45 |
| 6) | T | Chloroethane | 0.101 | 0.116 | 0.102 | 0.113 | 0.111 | 0.112 | 0.109 | 5.60 |
| 7) | T | Trichlorofluor... | 0.651 | 0.767 | 0.686 | 0.715 | 0.689 | 0.689 | 0.699 | 5.55 |
| 8) | T | Diethyl Ether | 0.149 | 0.171 | 0.156 | 0.178 | 0.175 | 0.169 | 0.166 | 6.77 |
| 9) | T | 1,1,2-Trichlor... | 0.346 | 0.428 | 0.378 | 0.391 | 0.385 | 0.376 | 0.384 | 6.92 |
| 10) | T | Methyl Iodide | 0.355 | 0.420 | 0.396 | 0.453 | 0.450 | 0.445 | 0.420 | 9.20 |
| 11) | T | Tert butyl alc... | 0.049 | 0.032 | 0.026 | 0.028 | 0.023 | 0.025 | 0.031 | 30.94 |
| 12) | CM | 1,1-Dichloroet... | 0.326 | 0.359 | 0.330 | 0.352 | 0.344 | 0.340 | 0.342 | 3.73# |
| 13) | T | Acrolein | 0.010 | 0.012 | 0.012 | 0.006 | 0.006 | 0.006 | 0.009 | 33.13 |
| 14) | T | Allyl chloride | 0.356 | 0.425 | 0.389 | 0.414 | 0.412 | 0.403 | 0.400 | 6.16 |
| 15) | T | Acrylonitrile | 0.058 | 0.068 | 0.060 | 0.071 | 0.064 | 0.065 | 0.064 | 7.69 |
| 16) | T | Acetone | 0.050 | 0.068 | 0.045 | 0.054 | 0.046 | 0.048 | 0.052 | 16.75 |
| 17) | T | Carbon Disulfide | 0.745 | 0.854 | 0.769 | 0.906 | 0.889 | 0.867 | 0.838 | 7.86 |
| 18) | T | Methyl Acetate | 0.115 | 0.155 | 0.132 | 0.159 | 0.140 | 0.144 | 0.141 | 11.41 |
| 19) | T | Methyl tert-bu... | 0.880 | 1.004 | 0.922 | 1.015 | 0.951 | 0.942 | 0.952 | 5.34 |
| 20) | T | Methylene Chlo... | 0.324 | 0.365 | 0.328 | 0.343 | 0.338 | 0.329 | 0.338 | 4.47 |
| 21) | T | trans-1,2-Dich... | 0.339 | 0.378 | 0.356 | 0.391 | 0.378 | 0.368 | 0.368 | 4.98 |
| 22) | T | Diisopropyl ether | 0.729 | 0.884 | 0.804 | 0.857 | 0.819 | 0.785 | 0.813 | 6.73 |
| 23) | T | Vinyl Acetate | 0.430 | 0.498 | 0.469 | 0.537 | 0.491 | 0.488 | 0.486 | 7.27 |
| 24) | P | 1,1-Dichloroet... | 0.571 | 0.661 | 0.596 | 0.620 | 0.620 | 0.591 | 0.609 | 5.11 |
| 25) | T | 2-Butanone | 0.069 | 0.069 | 0.066 | 0.080 | 0.067 | 0.071 | 0.070 | 6.95 |
| 26) | T | 2,2-Dichloropr... | 0.755 | 0.811 | 0.722 | 0.750 | 0.725 | 0.713 | 0.746 | 4.78 |
| 27) | T | cis-1,2-Dichlo... | 0.419 | 0.460 | 0.426 | 0.462 | 0.447 | 0.432 | 0.441 | 4.08 |
| 28) | T | Bromochloromet... | 0.133 | 0.151 | 0.129 | 0.193 | 0.184 | 0.178 | 0.161 | 16.93 |
| 29) | T | Tetrahydrofuran | 0.040 | 0.045 | 0.040 | 0.049 | 0.041 | 0.044 | 0.043 | 8.24 |
| 30) | C | Chloroform | 0.839 | 0.821 | 0.753 | 0.788 | 0.762 | 0.742 | 0.784 | 4.99# |
| 31) | T | Cyclohexane | 0.629 | 0.582 | 0.493 | 0.510 | 0.479 | 0.463 | 0.526 | 12.40 |
| 32) | T | 1,1,1-Trichlor... | 0.814 | 0.897 | 0.826 | 0.859 | 0.831 | 0.816 | 0.840 | 3.78 |
| 33) | S | 1,2-Dichloroet... | 0.335 | 0.402 | 0.313 | 0.516 | 0.457 | 0.433 | 0.410 | 18.66 |
| 34) | I | 1,4-Difluorobenzene | ----------ISTD---------- | | | | | | | |
| 35) | S | Dibromofluorom... | 0.235 | 0.274 | 0.232 | 0.319 | 0.307 | 0.284 | 0.275 | 13.05 |
| 36) | T | 1,1-Dichloropr... | 0.337 | 0.393 | 0.350 | 0.374 | 0.370 | 0.359 | 0.364 | 5.34 |
| 37) | T | Ethyl Acetate | 0.116 | 0.110 | 0.120 | 0.133 | 0.117 | 0.123 | 0.120 | 6.49 |
| 38) | T | Carbon Tetrach... | 0.556 | 0.644 | 0.581 | 0.614 | 0.606 | 0.593 | 0.599 | 5.03 |
| 39) | T | Methylcyclohexane | 0.427 | 0.483 | 0.462 | 0.485 | 0.474 | 0.468 | 0.466 | 4.55 |
| 40) | TM | Benzene | 0.969 | 1.104 | 1.040 | 1.089 | 1.083 | 1.041 | 1.054 | 4.68 |
| 41) | T | Methacrylonitrile | 0.051 | 0.058 | 0.067 | 0.056 | 0.065 | 0.065 | 0.061 | 10.48 |
| 42) | TM | 1,2-Dichloroet... | 0.297 | 0.352 | 0.325 | 0.364 | 0.348 | 0.342 | 0.338 | 7.04 |
| 43) | T | Isopropyl Acetate | 0.229 | 0.246 | 0.240 | 0.287 | 0.261 | 0.265 | 0.255 | 8.13 |
| 44) | TM | Trichloroethene | 0.288 | 0.336 | 0.315 | 0.324 | 0.317 | 0.309 | 0.315 | 5.06 |
| 45) | C | 1,2-Dichloropr... | 0.205 | 0.230 | 0.205 | 0.225 | 0.211 | 0.204 | 0.213 | 5.29# |
| 46) | T | Dibromomethane | 0.138 | 0.153 | 0.140 | 0.159 | 0.148 | 0.148 | 0.148 | 5.32 |
| 47) | T | Bromodichlorom... | 0.384 | 0.444 | 0.415 | 0.433 | 0.421 | 0.416 | 0.419 | 4.89 |
| 48) | T | Methyl methacr... | 0.106 | 0.119 | 0.112 | 0.131 | 0.124 | 0.122 | 0.119 | 7.40 |
| 49) | T | 1,4-Dioxane | 0.001 | 0.001 | 0.001 | 0.002 | 0.001 | 0.002 | 0.001 | 16.30 |
| 50) | S | Toluene-d8 | 0.733 | 0.883 | 0.733 | 1.227 | 1.158 | 1.093 | 0.971 | 22.39 |
| 51) | T | 4-Methyl-2-Pen... | 0.111 | 0.123 | 0.117 | 0.140 | 0.121 | 0.126 | 0.123 | 7.76 |
| 52) | CM | Toluene | 0.654 | 0.751 | 0.722 | 0.745 | 0.741 | 0.723 | 0.723 | 4.92# |
| 53) | T | t-1,3-Dichloro... | 0.318 | 0.366 | 0.352 | 0.403 | 0.386 | 0.382 | 0.368 | 8.17 |
| 54) | T | cis-1,3-Dichlo... | 0.361 | 0.408 | 0.395 | 0.430 | 0.413 | 0.410 | 0.403 | 5.78 |
| 55) | T | 1,1,2-Trichlor... | 0.182 | 0.187 | 0.186 | 0.199 | 0.188 | 0.189 | 0.188 | 3.08 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\
Method File : 82Y122624S.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 56) | T | Ethyl methacry... | 0.193 | 0.249 | 0.243 | 0.277 | 0.258 | 0.266 | 0.248 | 11.94 |
| 57) | T | 1,3-Dichloropr... | 0.265 | 0.310 | 0.299 | 0.334 | 0.315 | 0.312 | 0.306 | 7.47 |
| 58) | T | 2-Chloroethyl ... | 0.067 | 0.079 | 0.079 | 0.102 | 0.095 | 0.096 | 0.086 | 15.15 |
| 59) | T | 2-Hexanone | 0.066 | 0.077 | 0.078 | 0.096 | 0.083 | 0.087 | 0.081 | 12.38 |
| 60) | T | Dibromochlorom... | 0.276 | 0.321 | 0.294 | 0.316 | 0.312 | 0.309 | 0.305 | 5.52 |
| 61) | T | 1,2-Dibromoethane | 0.158 | 0.179 | 0.175 | 0.191 | 0.178 | 0.184 | 0.177 | 6.11 |
| 62) | S | 4-Bromofluorob... | 0.303 | 0.378 | 0.319 | 0.426 | 0.397 | 0.373 | 0.366 | 12.82 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.308 | 0.360 | 0.348 | 0.351 | 0.346 | 0.337 | 0.342 | 5.28 |
| 65) | PM | Chlorobenzene | 0.925 | 1.044 | 0.976 | 1.002 | 0.985 | 0.943 | 0.979 | 4.33 |
| 66) | T | 1,1,1,2-Tetrac... | 0.365 | 0.406 | 0.367 | 0.390 | 0.383 | 0.366 | 0.379 | 4.39 |
| 67) | C | Ethyl Benzene | 1.540 | 1.810 | 1.715 | 1.778 | 1.743 | 1.682 | 1.711 | 5.57# |
| 68) | T | m/p-Xylenes | 0.590 | 0.691 | 0.649 | 0.675 | 0.667 | 0.643 | 0.653 | 5.40 |
| 69) | T | o-Xylene | 0.552 | 0.666 | 0.639 | 0.650 | 0.632 | 0.603 | 0.624 | 6.56 |
| 70) | T | Styrene | 0.958 | 1.076 | 1.061 | 1.090 | 1.075 | 1.022 | 1.047 | 4.71 |
| 71) | P | Bromoform | 0.188 | 0.227 | 0.212 | 0.241 | 0.222 | 0.218 | 0.218 | 8.20 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 3.123 | 3.801 | 3.508 | 3.476 | 3.474 | 3.402 | 3.464 | 6.27 |
| 74) | T | N-amyl acetate | 0.391 | 0.483 | 0.476 | 0.547 | 0.518 | 0.538 | 0.492 | 11.64 |
| 75) | P | 1,1,2,2-Tetrac... | 0.430 | 0.438 | 0.438 | 0.476 | 0.431 | 0.451 | 0.444 | 3.85 |
| 76) | T | 1,2,3-Trichlor... | 0.376 | 0.226 | 0.360 | 0.300 | 0.284 | 0.362 | 0.318 | 18.29 |
| 77) | T | Bromobenzene | 0.762 | 0.827 | 0.779 | 0.816 | 0.805 | 0.796 | 0.797 | 3.01 |
| 78) | T | n-propylbenzene | 3.521 | 4.231 | 3.972 | 3.896 | 3.902 | 3.774 | 3.883 | 6.02 |
| 79) | T | 2-Chlorotoluene | 2.010 | 2.378 | 2.228 | 2.258 | 2.226 | 2.180 | 2.213 | 5.43 |
| 80) | T | 1,3,5-Trimethy... | 2.645 | 3.101 | 2.909 | 2.947 | 2.903 | 2.812 | 2.886 | 5.24 |
| 81) | T | trans-1,4-Dich... | 0.151 | 0.153 | 0.155 | 0.175 | 0.165 | 0.165 | 0.161 | 5.87 |
| 82) | T | 4-Chlorotoluene | 2.099 | 2.437 | 2.294 | 2.344 | 2.310 | 2.240 | 2.287 | 4.95 |
| 83) | T | tert-Butylbenzene | 2.487 | 2.888 | 2.751 | 2.727 | 2.687 | 2.632 | 2.695 | 4.94 |
| 84) | T | 1,2,4-Trimethy... | 2.513 | 2.946 | 2.860 | 2.888 | 2.867 | 2.777 | 2.809 | 5.51 |
| 85) | T | sec-Butylbenzene | 3.316 | 3.880 | 3.730 | 3.676 | 3.653 | 3.540 | 3.633 | 5.25 |
| 86) | T | p-Isopropyltol... | 2.922 | 3.487 | 3.288 | 3.295 | 3.259 | 3.173 | 3.237 | 5.74 |
| 87) | T | 1,3-Dichlorobe... | 1.428 | 1.670 | 1.567 | 1.578 | 1.579 | 1.529 | 1.559 | 5.06 |
| 88) | T | 1,4-Dichlorobe... | 1.492 | 1.625 | 1.562 | 1.572 | 1.549 | 1.502 | 1.550 | 3.15 |
| 89) | T | n-Butylbenzene | 2.356 | 2.894 | 2.764 | 2.757 | 2.760 | 2.683 | 2.702 | 6.77 |
| 90) | T | Hexachloroethane | 0.586 | 0.657 | 0.601 | 0.616 | 0.625 | 0.609 | 0.616 | 3.97 |
| 91) | T | 1,2-Dichlorobe... | 1.197 | 1.374 | 1.362 | 1.410 | 1.347 | 1.328 | 1.336 | 5.50 |
| 92) | T | 1,2-Dibromo-3-... | 0.068 | 0.089 | 0.086 | 0.098 | 0.086 | 0.090 | 0.086 | 11.75 |
| 93) | T | 1,2,4-Trichlor... | 0.666 | 0.826 | 0.811 | 0.902 | 0.944 | 0.947 | 0.849 | 12.58 |
| 94) | T | Hexachlorobuta... | 0.538 | 0.652 | 0.608 | 0.624 | 0.658 | 0.635 | 0.619 | 7.05 |
| 95) | T | Naphthalene | 0.979 | 1.248 | 1.290 | 1.528 | 1.513 | 1.604 | 1.360 | 17.19 |
| 96) | T | 1,2,3-Trichlor... | 0.531 | 0.678 | 0.678 | 0.773 | 0.787 | 0.796 | 0.707 | 14.34 |

(#) = Out of Range




Response = 1.134e+000 * Amt - 3.913e-002
Coef of Det (r^2) = 0.994604  Curve Fit: Linear
Method: \\chpnas\chpsrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Calibration Table Last Updated: Thu Dec 26 16:12:28 2024

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020706.D
Acq On : 26 Dec 2024 09:31
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:01:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 15:59:15 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 118156 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 168634 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 139342 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.359 | 152 | 68108 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 3955 | 4.087 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 8.180%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 3966 | 4.270 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 8.540%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 12366 | 4.957 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 9.920%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 5109 | 4.139 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 8.280%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 4346 | 4.673 | ug/l | | 85 |
| 3) Chloromethane | 2.074 | 50 | 1604 | 4.624 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.214 | 62 | 1987 | 4.624 | ug/l | | 97 |
| 5) Bromomethane | 2.611 | 94 | 1547 | 4.768 | ug/l | | 81 |
| 6) Chloroethane | 2.757 | 64 | 1195 | 4.635 | ug/l | # | 81 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 7688 | 4.652 | ug/l | | 88 |
| 8) Diethyl Ether | 3.470 | 74 | 1765 | 4.488 | ug/l | | 83 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 4090 | 4.508 | ug/l | | 93 |
| 10) Methyl Iodide | 4.019 | 142 | 4193 | 4.226 | ug/l | | 99 |
| 11) Tert butyl alcohol | 4.885 | 59 | 2879m | 29.170 | ug/l | | |
| 12) 1,1-Dichloroethene | 3.818 | 96 | 3846 | 4.763 | ug/l | # | 80 |
| 13) Acrolein | 3.678 | 56 | 596 | 29.459 | ug/l | | 93 |
| 14) Allyl chloride | 4.403 | 41 | 4206 | 4.451 | ug/l | | 99 |
| 15) Acrylonitrile | 5.074 | 53 | 3397 | 22.361 | ug/l | # | 89 |
| 16) Acetone | 3.897 | 43 | 2982 | 24.288 | ug/l | | 95 |
| 17) Carbon Disulfide | 4.129 | 76 | 8806 | 4.445 | ug/l | | 97 |
| 18) Methyl Acetate | 4.403 | 43 | 1356 | 4.081 | ug/l | | 99 |
| 19) Methyl tert-butyl Ether | 5.129 | 73 | 10398 | 4.620 | ug/l | | 97 |
| 20) Methylene Chloride | 4.641 | 84 | 3827m | 4.796 | ug/l | | |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 4008 | 4.606 | ug/l | | 91 |
| 22) Diisopropyl ether | 6.031 | 45 | 8608 | 4.481 | ug/l | # | 86 |
| 23) Vinyl Acetate | 5.982 | 43 | 25395 | 22.132 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 6745 | 4.683 | ug/l | | 93 |
| 25) 2-Butanone | 6.909 | 43 | 4081 | 24.607 | ug/l | | 94 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 8915 | 5.057 | ug/l | | 94 |
| 27) cis-1,2-Dichloroethene | 6.915 | 96 | 4953 | 4.753 | ug/l | | 95 |
| 28) Bromochloromethane | 7.268 | 49 | 1572 | 4.127 | ug/l | # | 100 |
| 29) Tetrahydrofuran | 7.281 | 42 | 2337 | 22.956 | ug/l | | 95 |
| 30) Chloroform | 7.433 | 83 | 9912 | 5.350 | ug/l | | 93 |
| 31) Cyclohexane | 7.713 | 56 | 7429 | 5.976 | ug/l | # | 81 |
| 32) 1,1,1-Trichloroethane | 7.634 | 97 | 9621 | 4.844 | ug/l | | 98 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 5685 | 4.633 | ug/l | | 96 |
| 37) Ethyl Acetate | 7.012 | 43 | 1951 | 4.825 | ug/l | # | 86 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 9371 | 4.638 | ug/l | | 97 |
| 39) Methylcyclohexane | 9.122 | 83 | 7196 | 4.576 | ug/l | | 95 |
| 40) Benzene | 8.098 | 78 | 16340 | 4.595 | ug/l | | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020706.D
Acq On : 26 Dec 2024 09:31
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Dec 26 16:01:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 15:59:15 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 865 | 4.235 ug/l # | 84 |
| 42) 1,2-Dichloroethane | 8.171 | 62 | 5012 | 4.396 ug/l | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 3867 | 4.500 ug/l | 99 |
| 44) Trichloroethene | 8.872 | 130 | 4862 | 4.578 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 3462 | 4.810 ug/l | 94 |
| 46) Dibromomethane | 9.238 | 93 | 2330 | 4.678 ug/l | 96 |
| 47) Bromodichloromethane | 9.433 | 83 | 6469 | 4.581 ug/l | 89 |
| 48) Methyl methacrylate | 9.238 | 41 | 1784 | 4.445 ug/l | 92 |
| 49) 1,4-Dioxane | 9.250 | 88 | 342 | 72.090 ug/l # | 80 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 9383 | 22.620 ug/l | 99 |
| 52) Toluene | 10.182 | 92 | 11031 | 4.526 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 5357 | 4.320 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 6091 | 4.481 ug/l | 92 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 3068 | 4.826 ug/l # | 93 |
| 56) Ethyl methacrylate | 10.445 | 69 | 3250 | 3.891 ug/l | 94 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 4475 | 4.337 ug/l | 95 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 5665 | 19.451 ug/l | 95 |
| 59) 2-Hexanone | 10.768 | 43 | 5560 | 20.301 ug/l | 95 |
| 60) Dibromochloromethane | 10.920 | 129 | 4656 | 4.532 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 2672 | 4.467 ug/l | 93 |
| 64) Tetrachloroethene | 10.652 | 164 | 4294 | 4.511 ug/l | 92 |
| 65) Chlorobenzene | 11.451 | 112 | 12888 | 4.724 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 5080 | 4.806 ug/l | 95 |
| 67) Ethyl Benzene | 11.524 | 91 | 21456 | 4.499 ug/l | 100 |
| 68) m/p-Xylenes | 11.640 | 106 | 16447 | 9.042 ug/l | 99 |
| 69) o-Xylene | 11.963 | 106 | 7691 | 4.425 ug/l | 95 |
| 70) Styrene | 11.981 | 104 | 13353 | 4.577 ug/l | 96 |
| 71) Bromoform | 12.146 | 173 | 2618 | 4.308 ug/l # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 21271 | 4.508 ug/l | 97 |
| 74) N-amyl acetate | 12.078 | 43 | 2662 | 3.970 ug/l | 94 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 2932 | 4.847 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 2559m | 5.265 ug/l | |
| 77) Bromobenzene | 12.542 | 156 | 5187 | 4.775 ug/l | 95 |
| 78) n-propylbenzene | 12.603 | 91 | 23980 | 4.534 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 13687 | 4.540 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 18014 | 4.582 ug/l | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 1030 | 4.700 ug/l | 94 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 14294 | 4.588 ug/l | 97 |
| 83) tert-Butylbenzene | 13.005 | 119 | 16938 | 4.613 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 17114 | 4.473 ug/l | 97 |
| 85) sec-Butylbenzene | 13.182 | 105 | 22583 | 4.564 ug/l | 97 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 19901 | 4.513 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 9727 | 4.582 ug/l | 95 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 10161 | 4.811 ug/l | 93 |
| 89) n-Butylbenzene | 13.627 | 91 | 16045 | 4.359 ug/l | 98 |
| 90) Hexachloroethane | 13.883 | 117 | 3991 | 4.760 ug/l | 95 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 8154 | 4.480 ug/l | 94 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.291 | 75 | 460 | 3.921 ug/l | 86 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 4536 | 3.920 ug/l | 95 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 3664 | 4.345 ug/l | 98 |
| 95) Naphthalene | 15.157 | 128 | 6669 | 3.599 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 3615 | 3.753 ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020706.D
Acq On : 26 Dec 2024 09:31
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:01:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 15:59:15 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

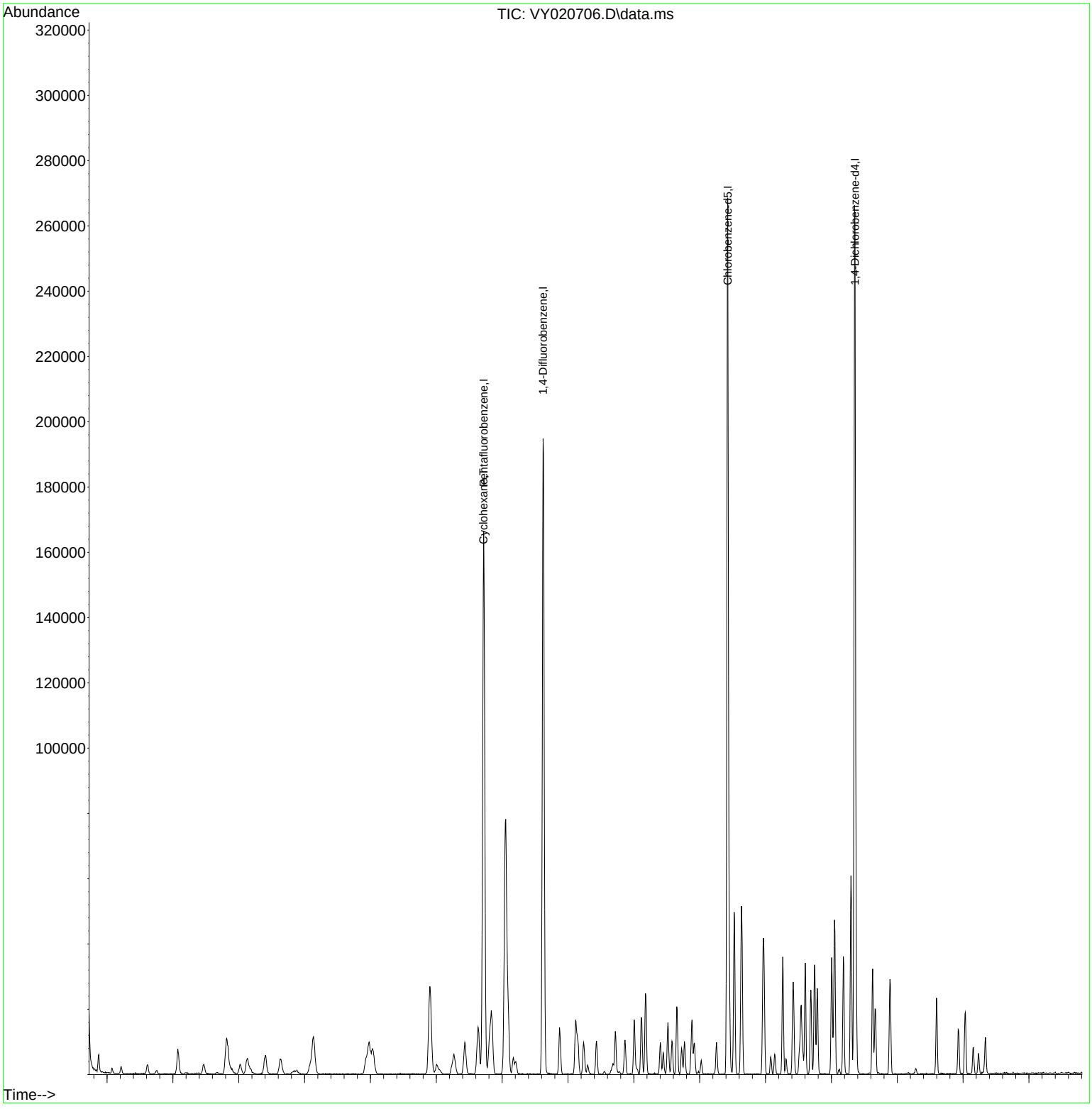
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020706.D
Acq On : 26 Dec 2024 09:31
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

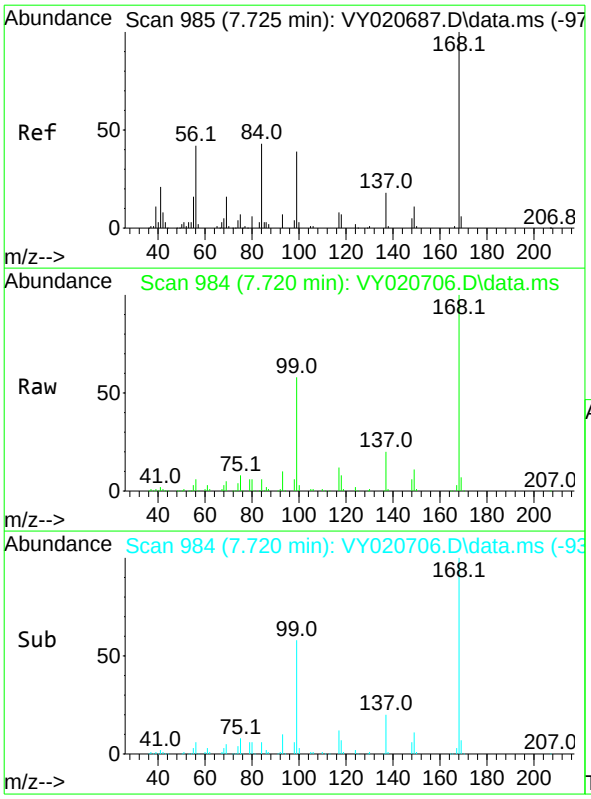
Quant Time: Dec 26 16:01:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 15:59:15 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

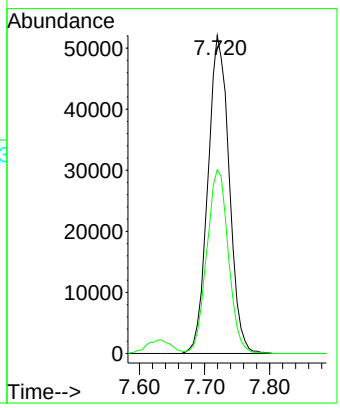





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 98
Delta R.T. -0.005 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:168 Resp: 118156

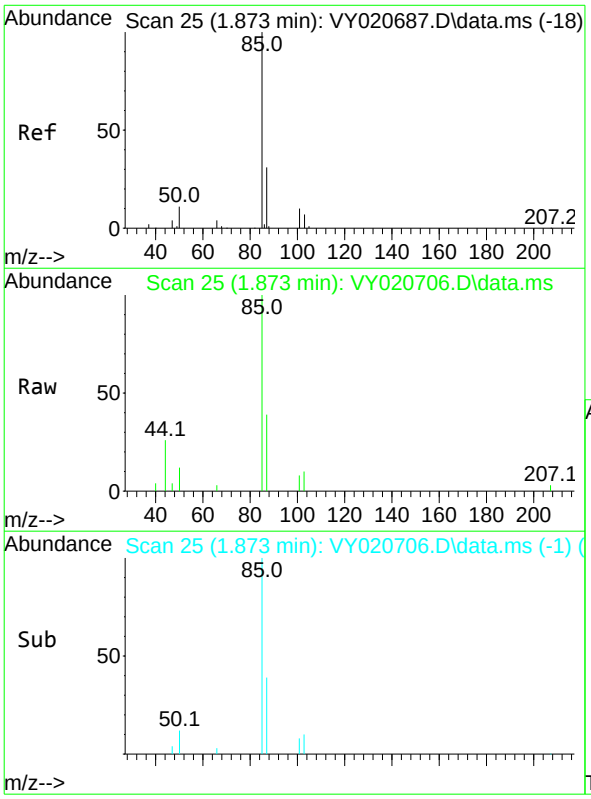
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.8 | 43.8 | 65.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

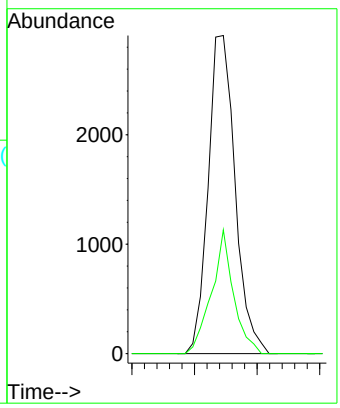
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

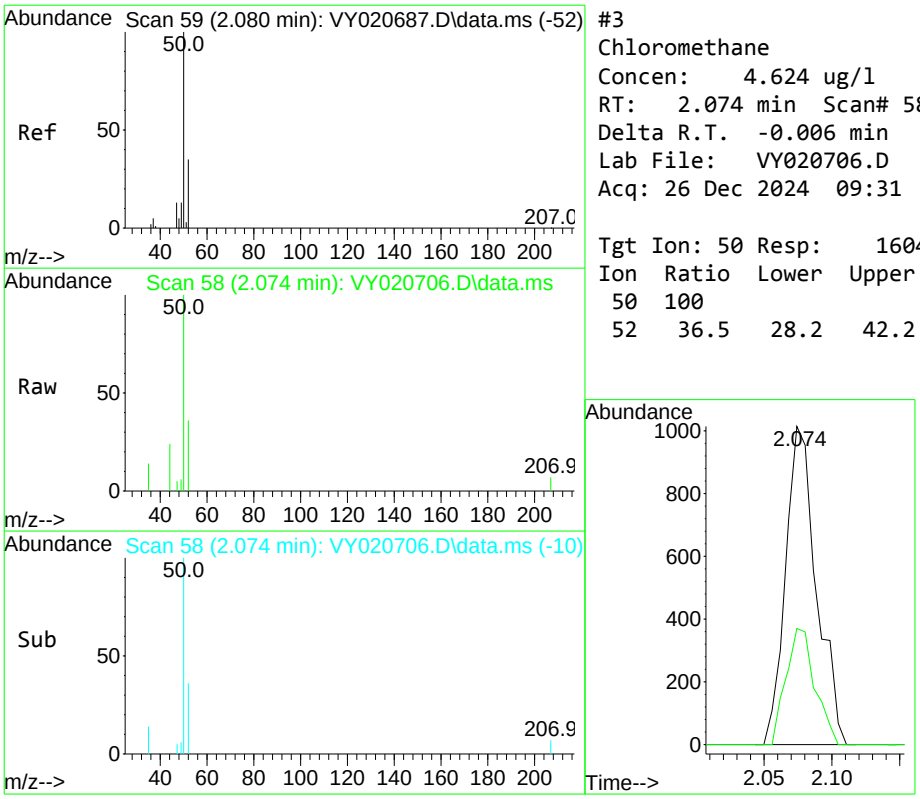



#2
Dichlorodifluoromethane
Concen: 4.673 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 85 Resp: 4346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 38.9 | 15.4 | 46.4 |






#3
Chloromethane
Concen: 4.624 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 50 Resp: 1604

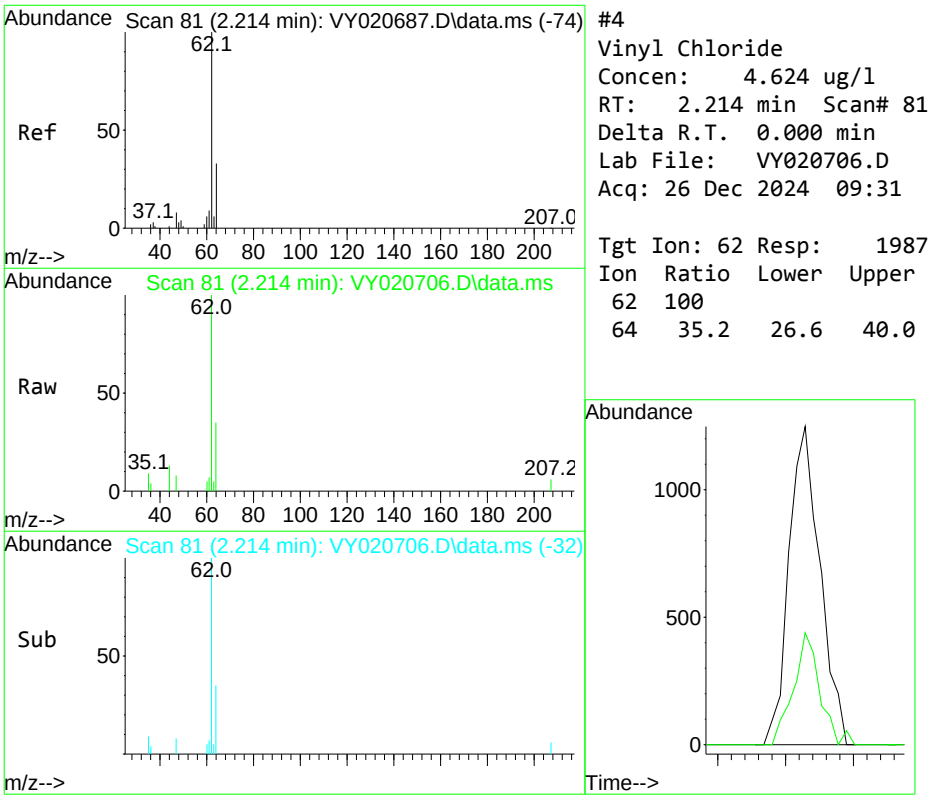
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.5 | 28.2 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

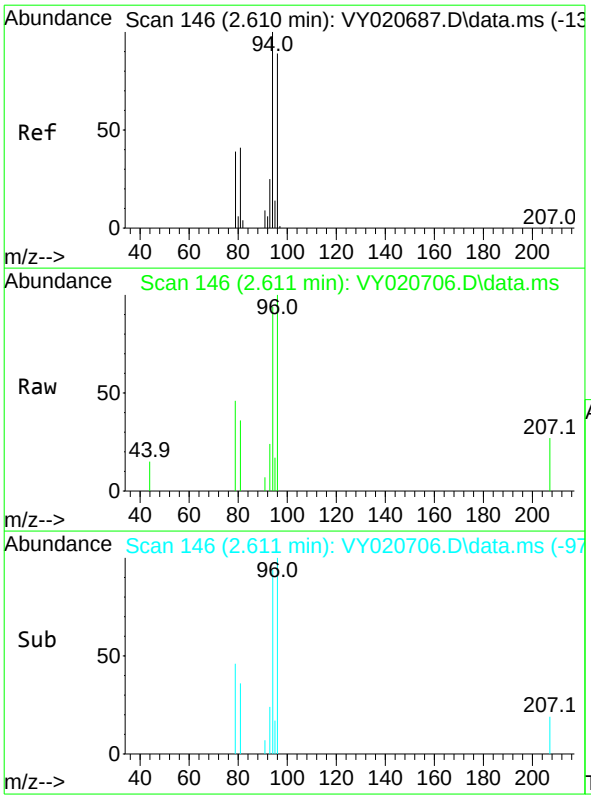
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024




#4
Vinyl Chloride
Concen: 4.624 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 62 Resp: 1987

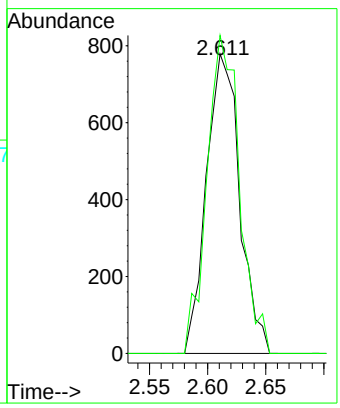
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 35.2 | 26.6 | 40.0 |




#5
Bromomethane
Concen: 4.768 ug/l
RT: 2.611 min Scan# 14
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 94 Resp: 1547

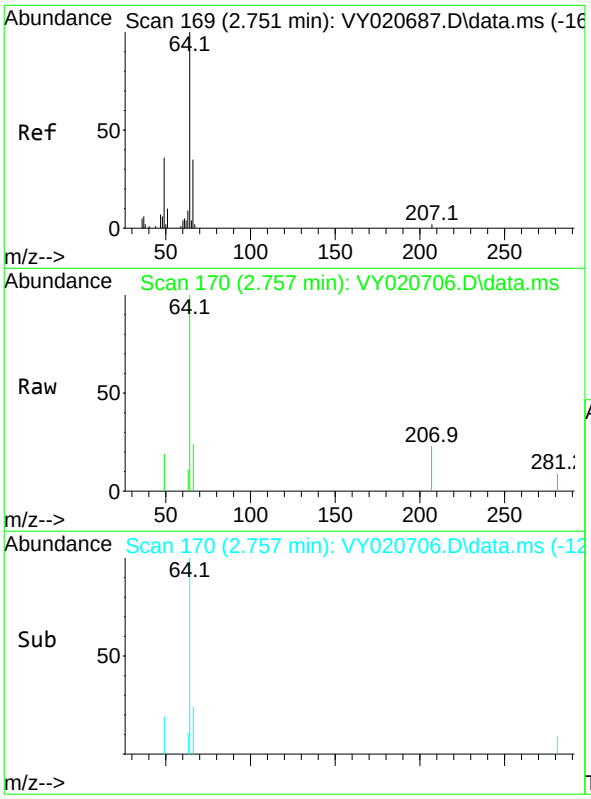
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 106.2 | 71.0 | 106.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

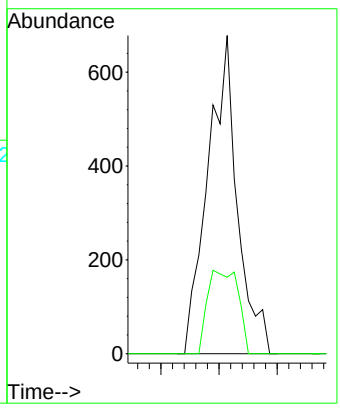
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

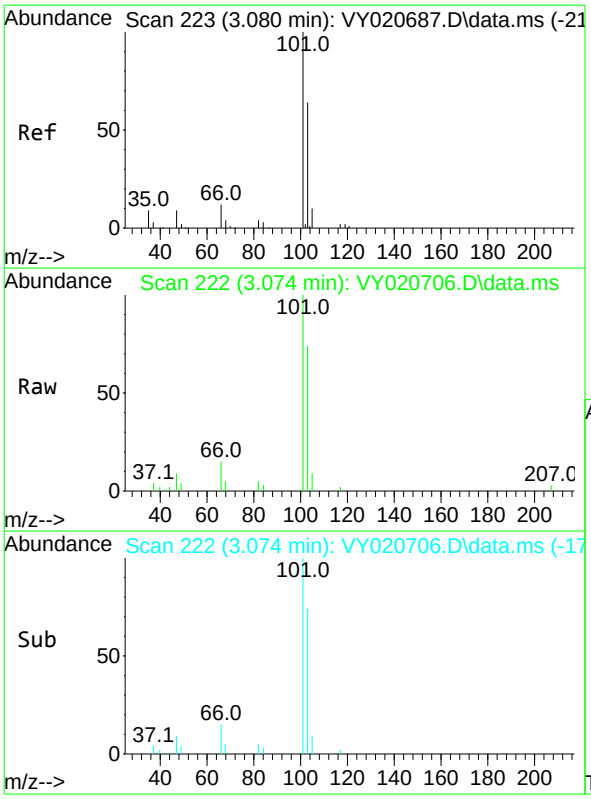



#6
Chloroethane
Concen: 4.635 ug/l
RT: 2.757 min Scan# 170
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 64 Resp: 1195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 24.0 | 27.8 | 41.8# |

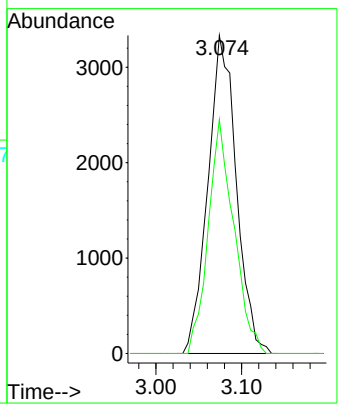





#7
Trichlorofluoromethane
Concen: 4.652 ug/l
RT: 3.074 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:101 Resp: 7688

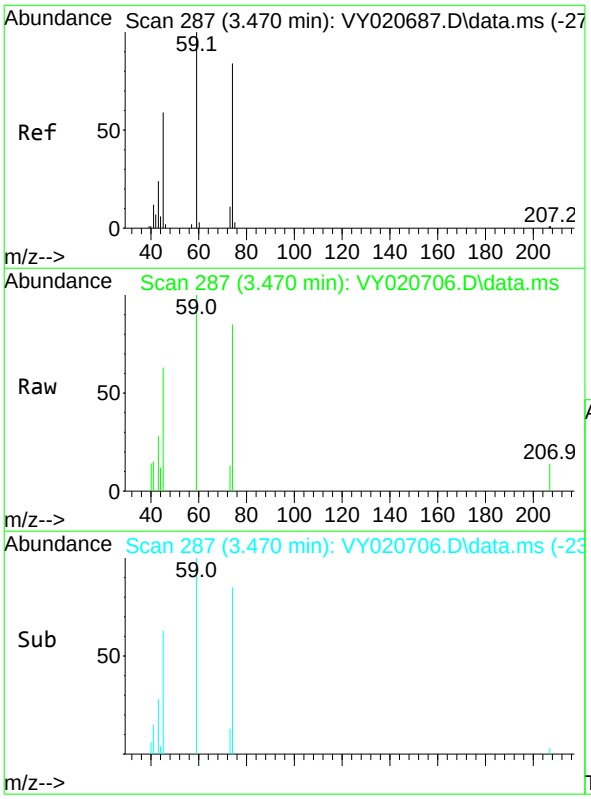
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 73.6 | 51.4 | 77.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

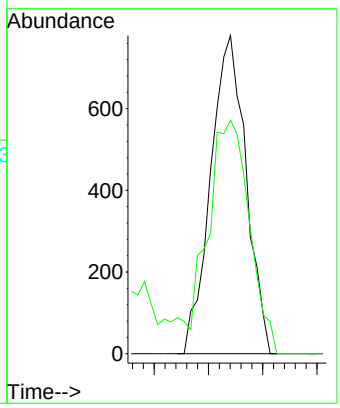
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

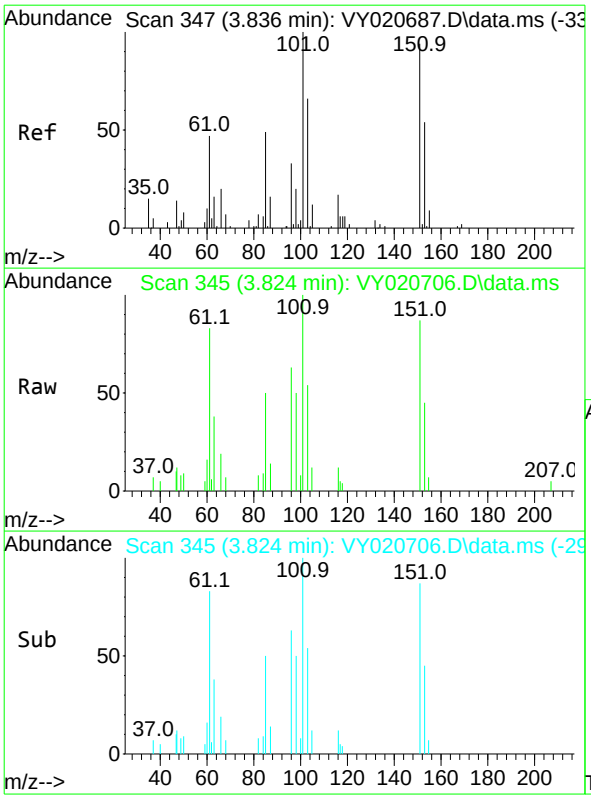



#8
Diethyl Ether
Concen: 4.488 ug/l
RT: 3.470 min Scan# 287
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 74 Resp: 1765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 86.1 | 35.8 | 107.4 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.508 ug/l
RT: 3.824 min Scan# 34
Delta R.T. -0.012 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

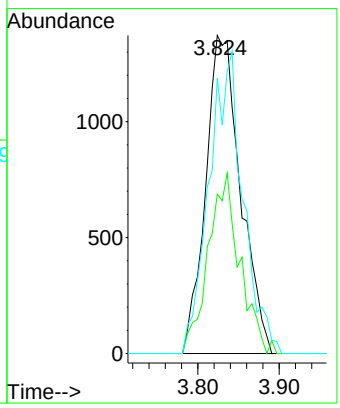
Tgt Ion:101 Resp: 4090

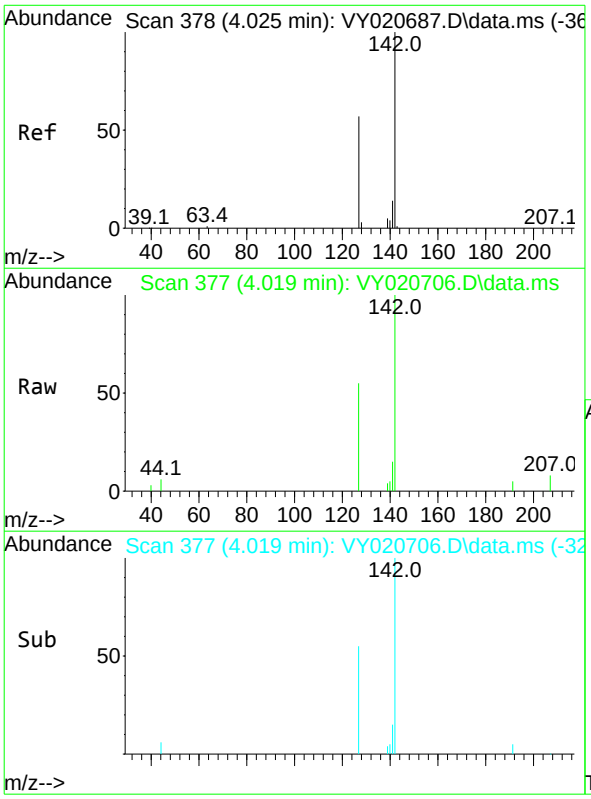
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 51.1 | 38.2 | 57.2 |
| 151 | 92.5 | 68.4 | 102.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

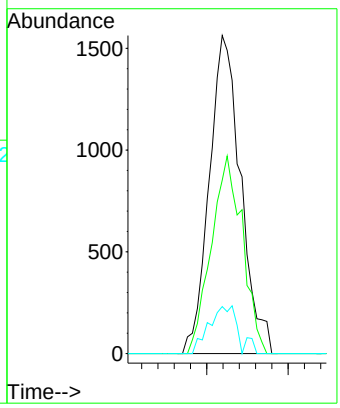


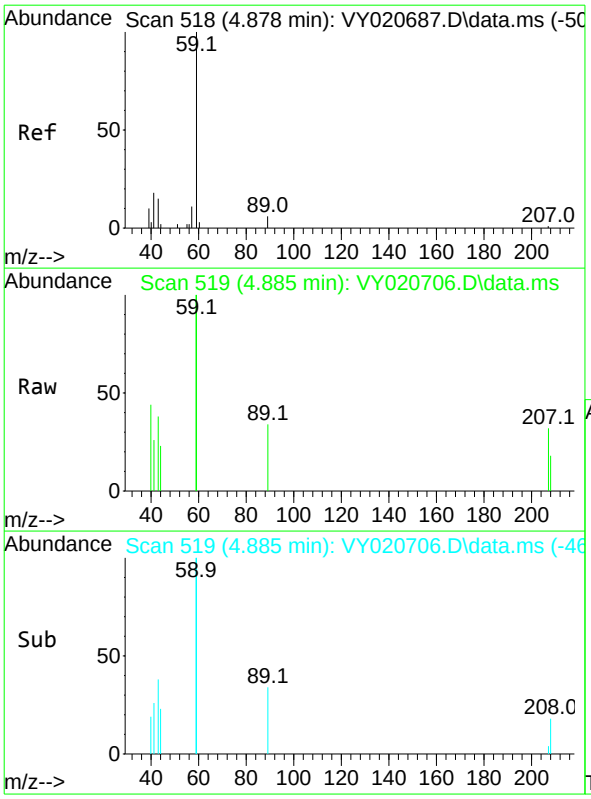




#10
Methyl Iodide
Concen: 4.226 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:142 Resp: 4193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 61.6 | 48.8 | 73.2 |
| 141 | 13.9 | 11.9 | 17.9 |

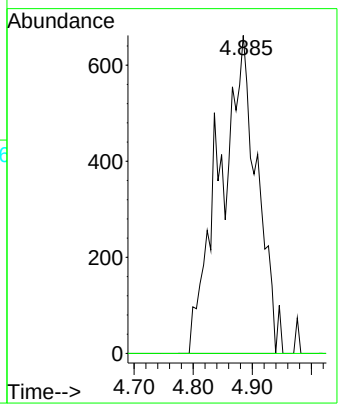





#11
Tert butyl alcohol
Concen: 29.170 ug/l m
RT: 4.885 min Scan# 51
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 59 Resp: 2879

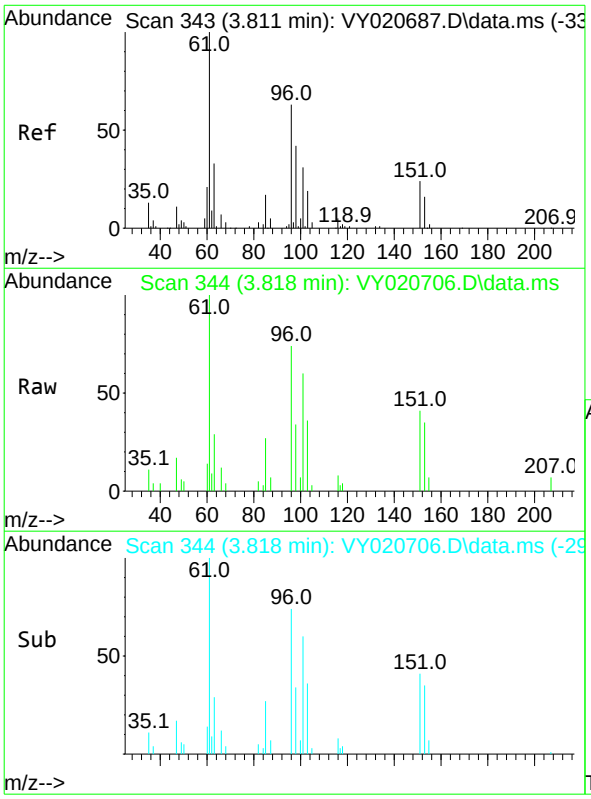
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 2.8 | 4.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

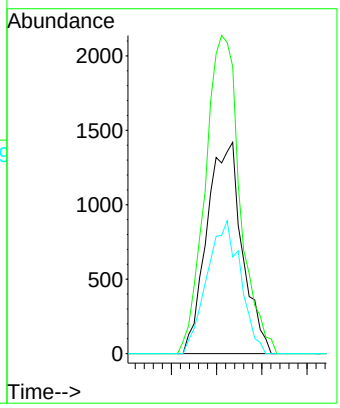
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

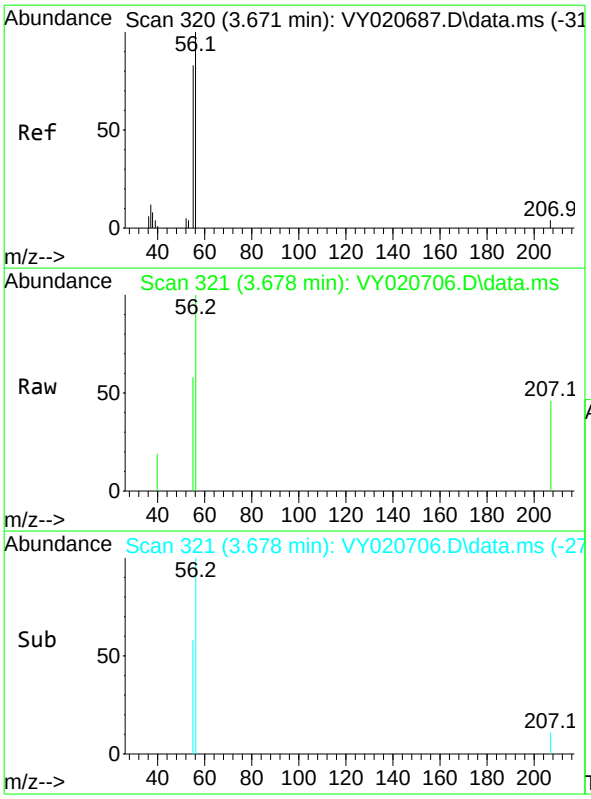



#12
1,1-Dichloroethene
Concen: 4.763 ug/l
RT: 3.818 min Scan# 344
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 96 Resp: 3846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.8 | 127.1 | 190.7 |
| 98 | 45.7 | 53.4 | 80.0# |

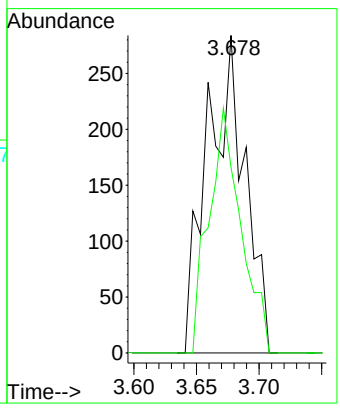





#13
Acrolein
Concen: 29.459 ug/l
RT: 3.678 min Scan# 32
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 56 Resp: 596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 65.6 | 57.0 | 85.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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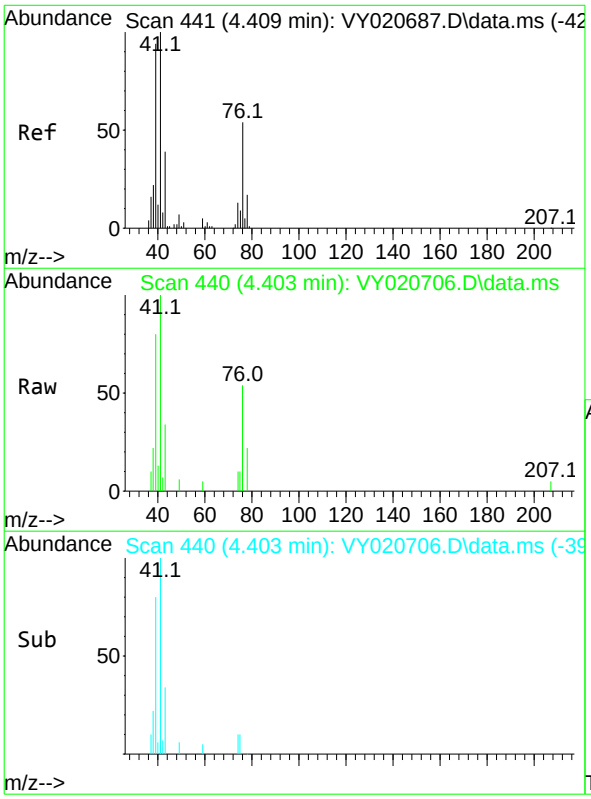
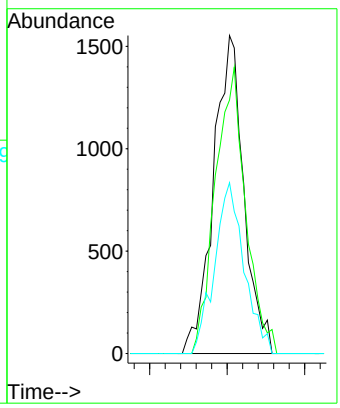
Supervised By :Semsettin Yesilyurt 12/27/2024

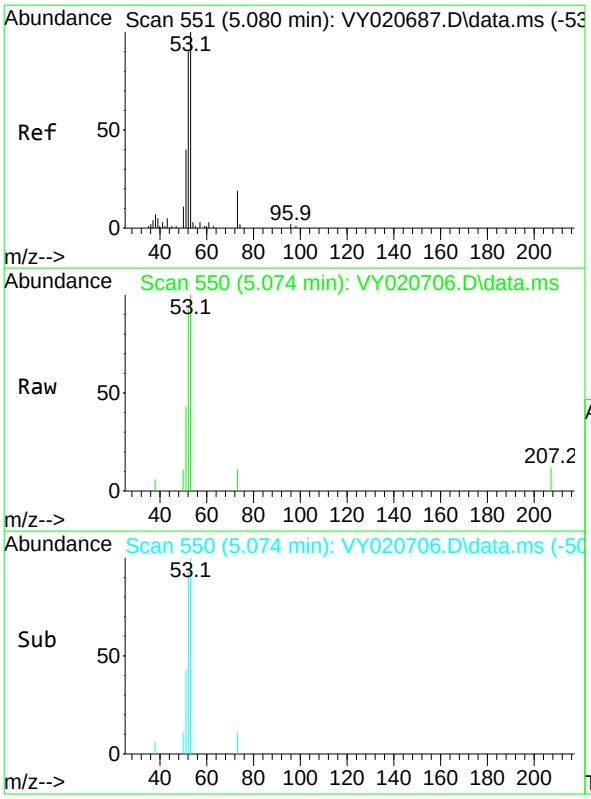



#14
Allyl chloride
Concen: 4.451 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 41 Resp: 4206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 90.1 | 73.5 | 110.3 |
| 76 | 52.5 | 41.8 | 62.8 |

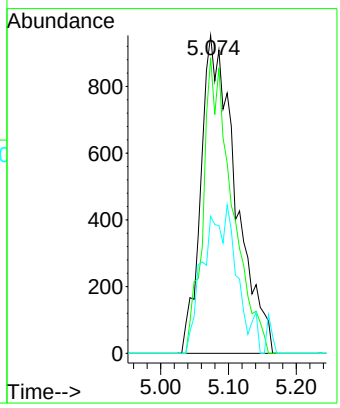





#15
Acrylonitrile
Concen: 22.361 ug/l
RT: 5.074 min Scan# 55
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 53 Resp: 3397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 77.8 | 67.1 | 100.7 |
| 51 | 26.8 | 31.4 | 47.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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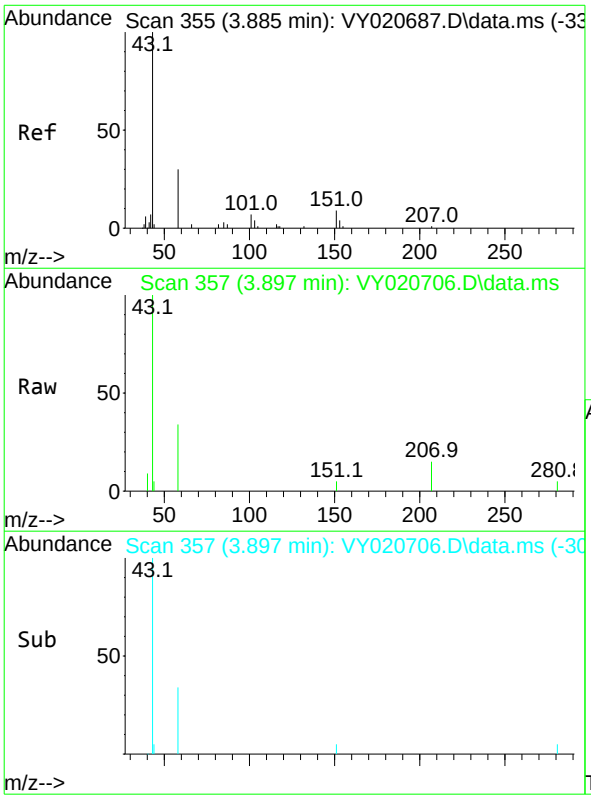
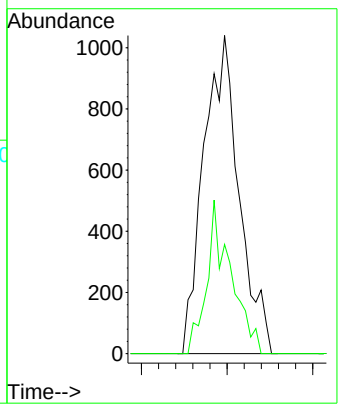
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

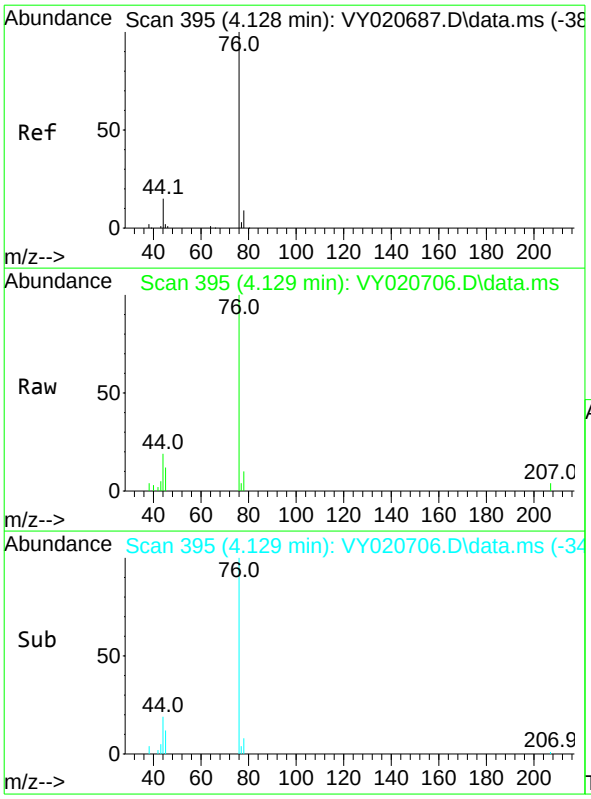



#16
Acetone
Concen: 24.288 ug/l
RT: 3.897 min Scan# 357
Delta R.T. 0.012 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 2982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.3 | 25.0 | 37.6 |

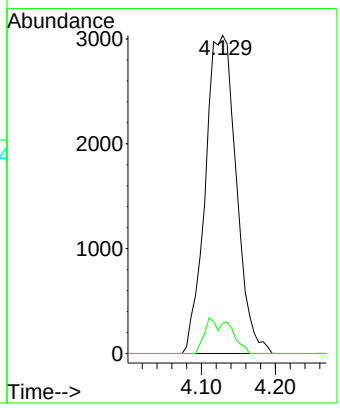





#17
Carbon Disulfide
Concen: 4.445 ug/l
RT: 4.129 min Scan# 39
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 76 Resp: 8806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.5 | 6.9 | 10.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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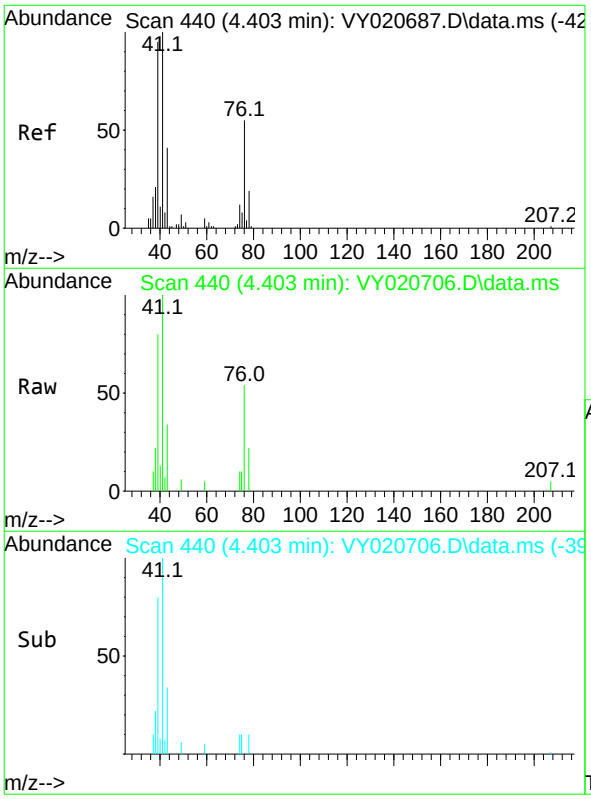
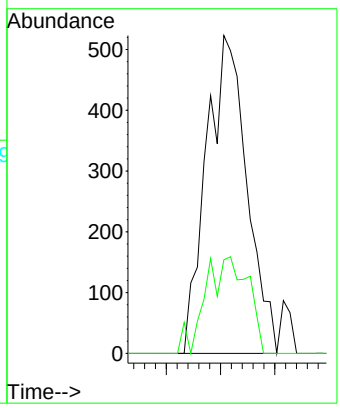
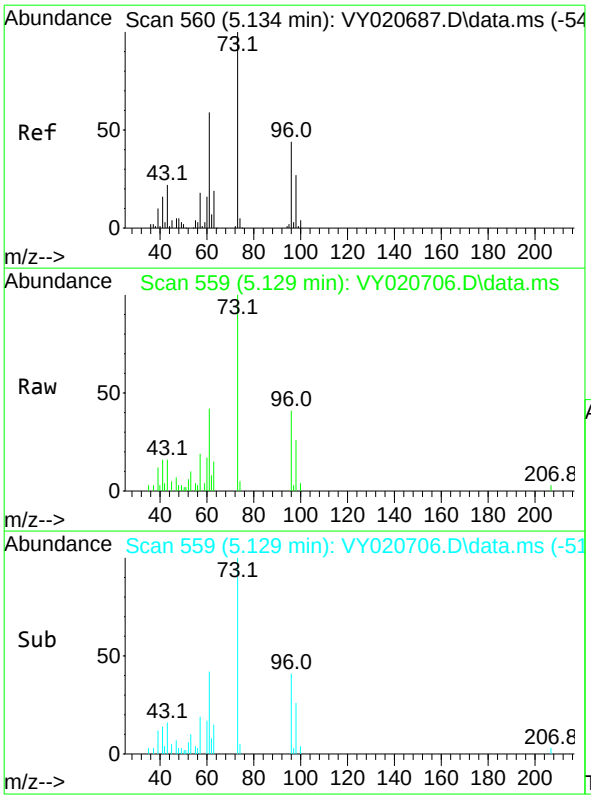



#18
Methyl Acetate
Concen: 4.081 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 1356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 32.0 | 25.3 | 37.9 |

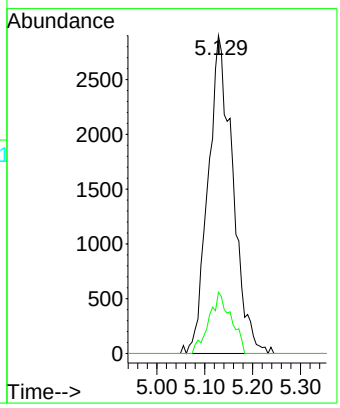





#19
Methyl tert-butyl Ether
Concen: 4.620 ug/l
RT: 5.129 min Scan# 55
Delta R.T. -0.005 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 73 Resp: 10398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.3 | 14.4 | 21.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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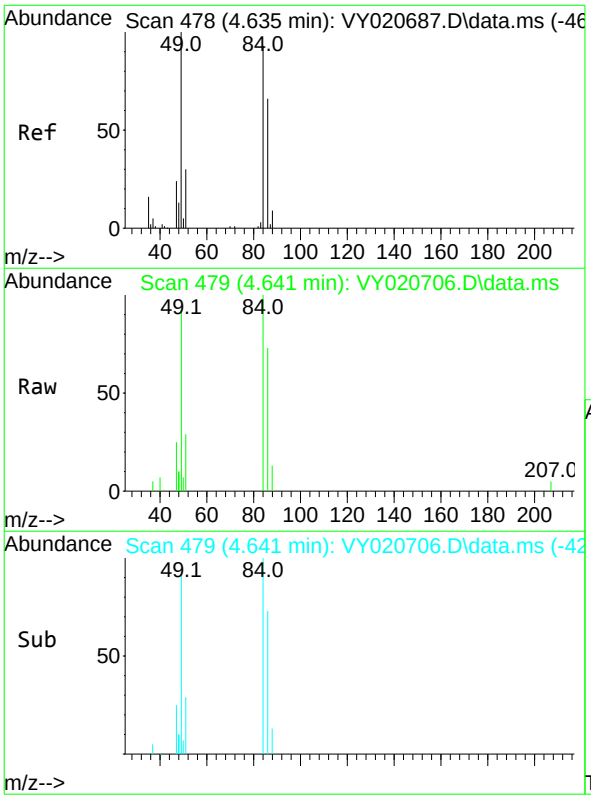
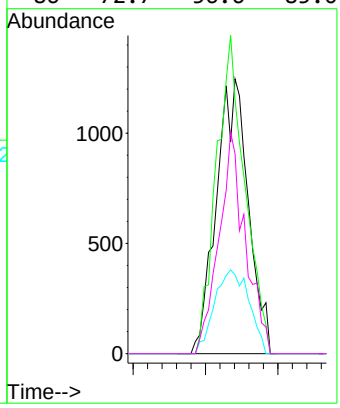
Supervised By :Semsettin Yesilyurt 12/27/2024

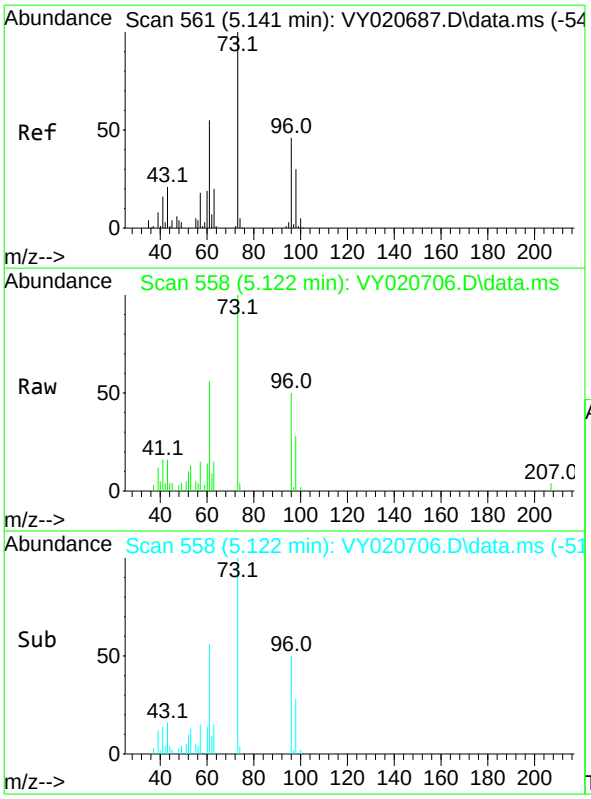



#20
Methylene Chloride
Concen: 4.796 ug/l m
RT: 4.641 min Scan# 479
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 84 Resp: 3827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 92.5 | 86.4 | 129.6 |
| 51 | 28.7 | 25.5 | 38.3 |
| 86 | 72.7 | 56.6 | 85.0 |

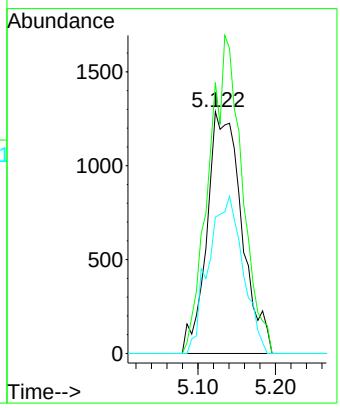





#21
trans-1,2-Dichloroethene
Concen: 4.606 ug/l
RT: 5.122 min Scan# 55
Delta R.T. -0.019 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 96 Resp: 4008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 112.0 | 96.1 | 144.1 |
| 98 | 56.4 | 52.7 | 79.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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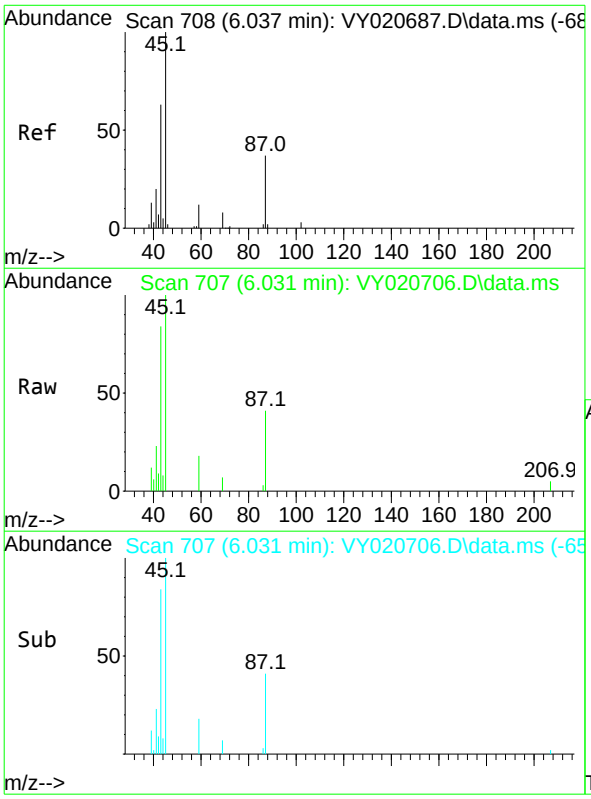
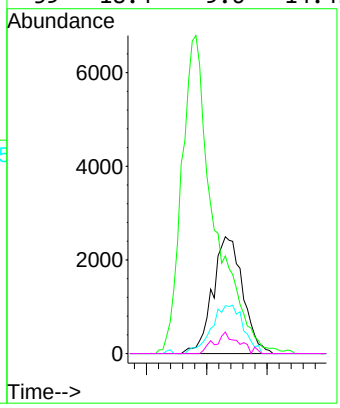
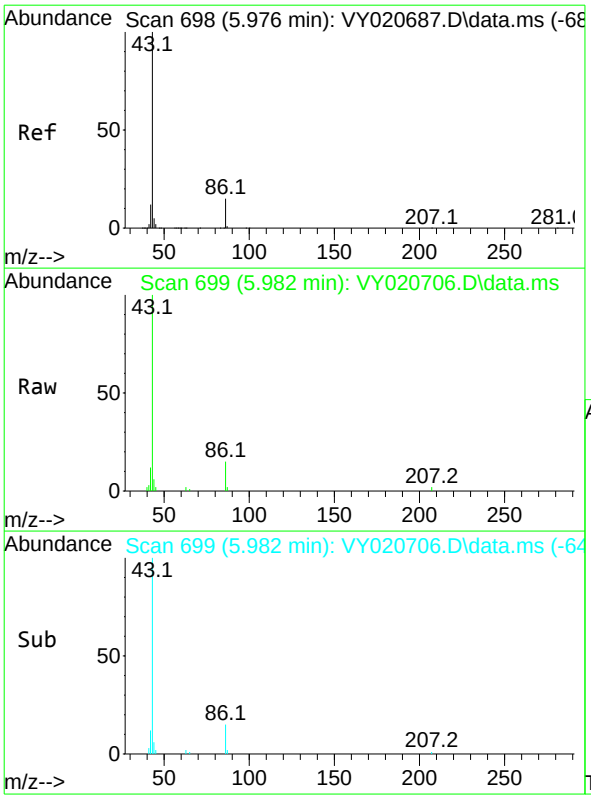



#22
Diisopropyl ether
Concen: 4.481 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 45 Resp: 8608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 79.8 | 51.3 | 76.9# |
| 87 | 41.0 | 30.6 | 46.0 |
| 59 | 18.4 | 9.6 | 14.4# |

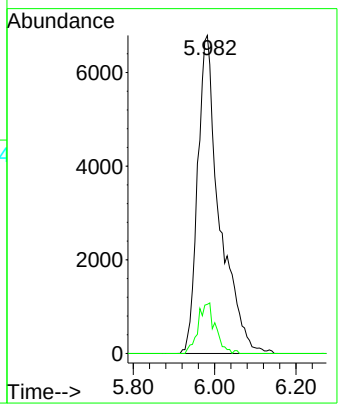





#23
Vinyl Acetate
Concen: 22.132 ug/l
RT: 5.982 min Scan# 69
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 25395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 15.5 | 12.0 | 18.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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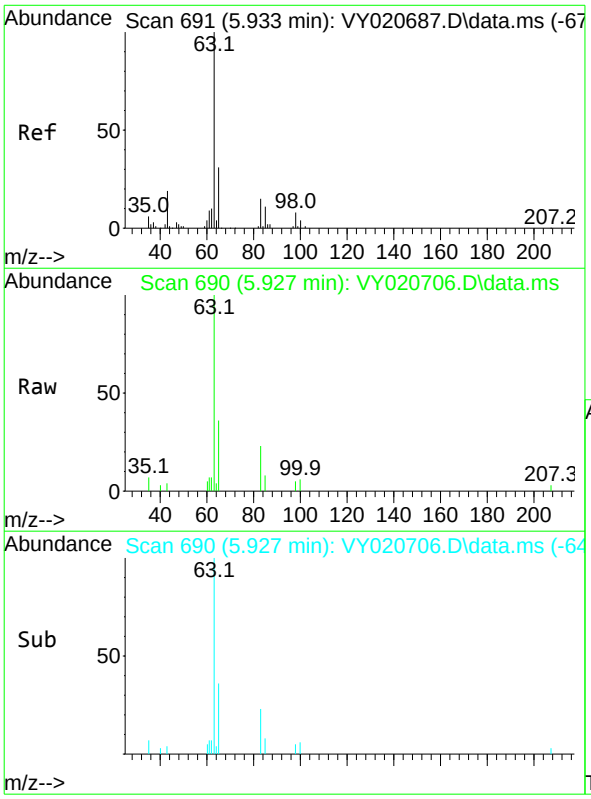
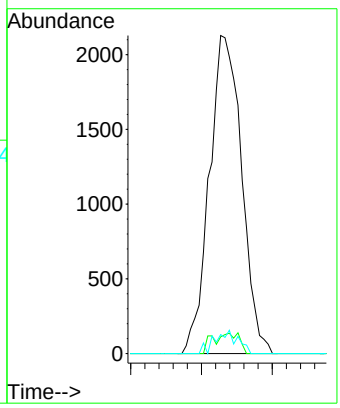
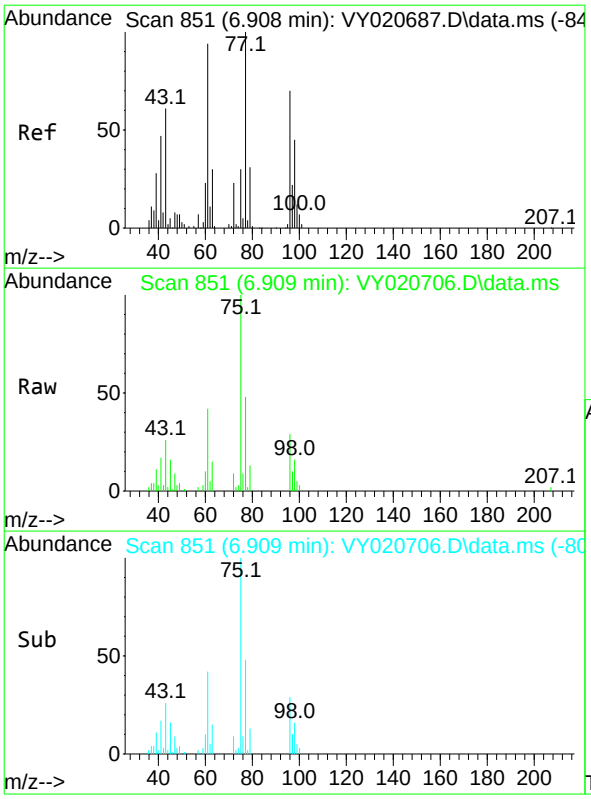



#24
1,1-Dichloroethane
Concen: 4.683 ug/l
RT: 5.927 min Scan# 690
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 63 Resp: 6745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 5.3 | 4.0 | 12.0 |
| 100 | 6.0 | 2.1 | 6.2 |

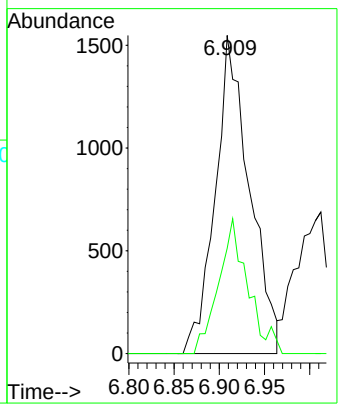





#25
2-Butanone
Concen: 24.607 ug/l
RT: 6.909 min Scan# 85
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 4081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 33.1 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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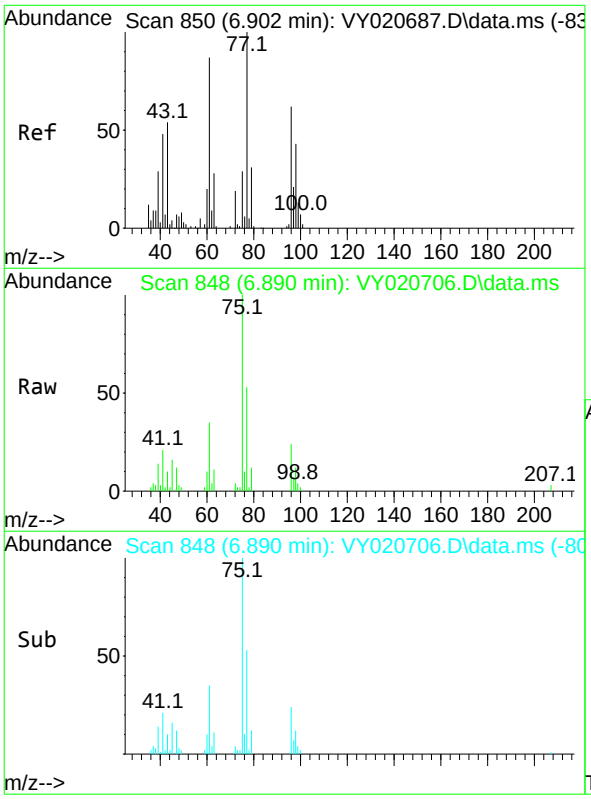
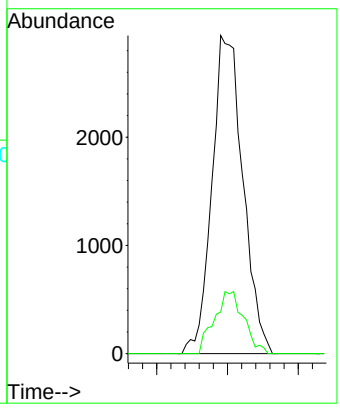
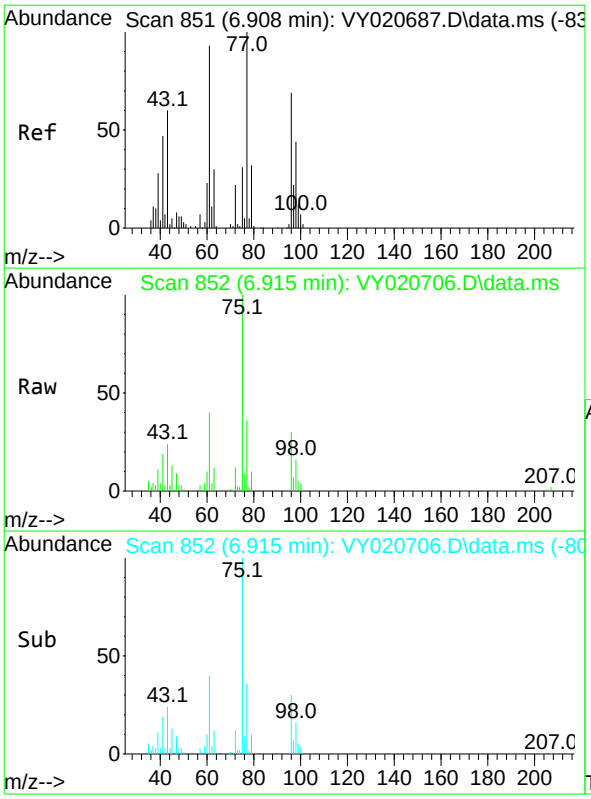



#26
2,2-Dichloropropane
Concen: 5.057 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 77 Resp: 8915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 18.6 | 10.8 | 32.4 |

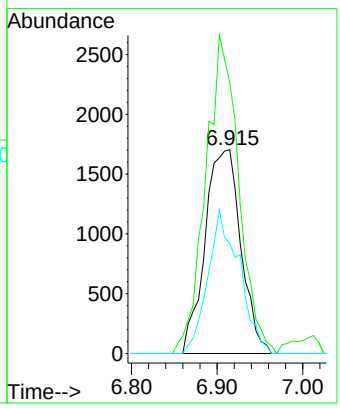





#27
cis-1,2-Dichloroethene
Concen: 4.753 ug/l
RT: 6.915 min Scan# 85
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 96 Resp: 4953

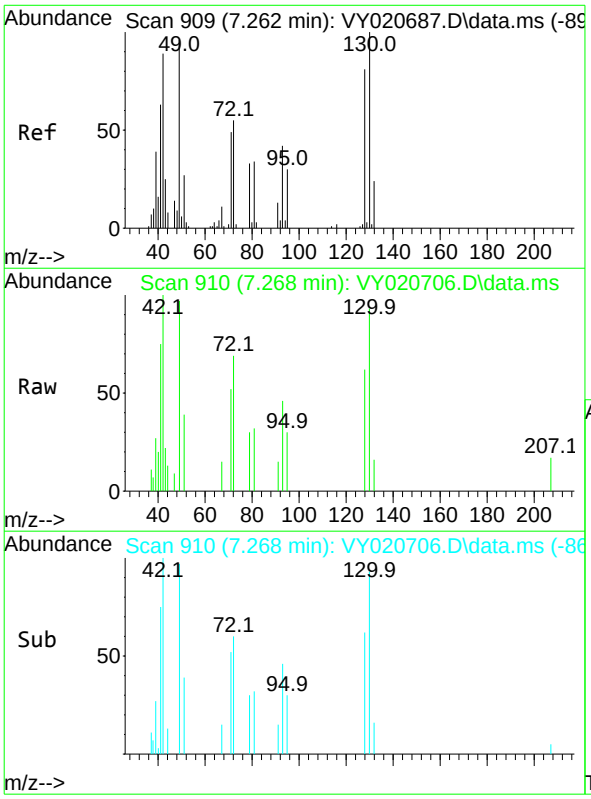
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.5 | 0.0 | 277.2 |
| 98 | 61.9 | 0.0 | 131.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

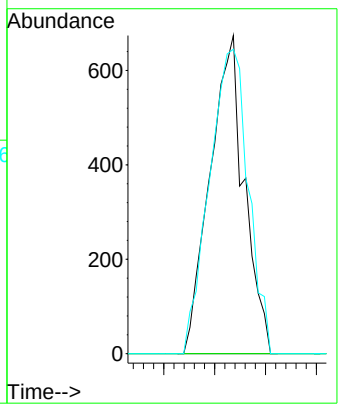
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

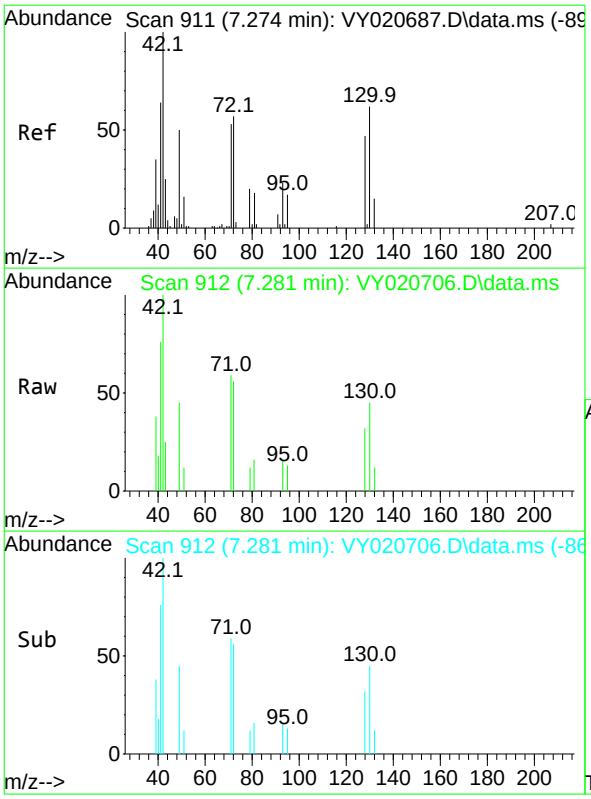



#28
Bromochloromethane
Concen: 4.127 ug/l
RT: 7.268 min Scan# 910
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 49 Resp: 1572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 5.4 |
| 130 | 109.0 | 87.2 | 130.8 |

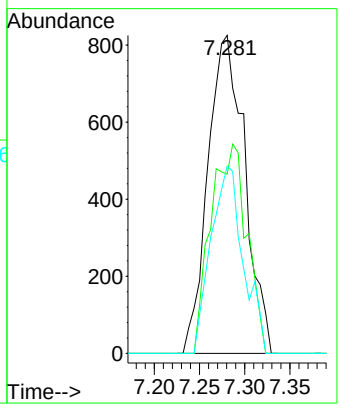





#29
Tetrahydrofuran
Concen: 22.956 ug/l
RT: 7.281 min Scan# 91
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 42 Resp: 2337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 64.4 | 47.4 | 71.0 |
| 71 | 51.5 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
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VSTDICC005

**Manual Integrations**
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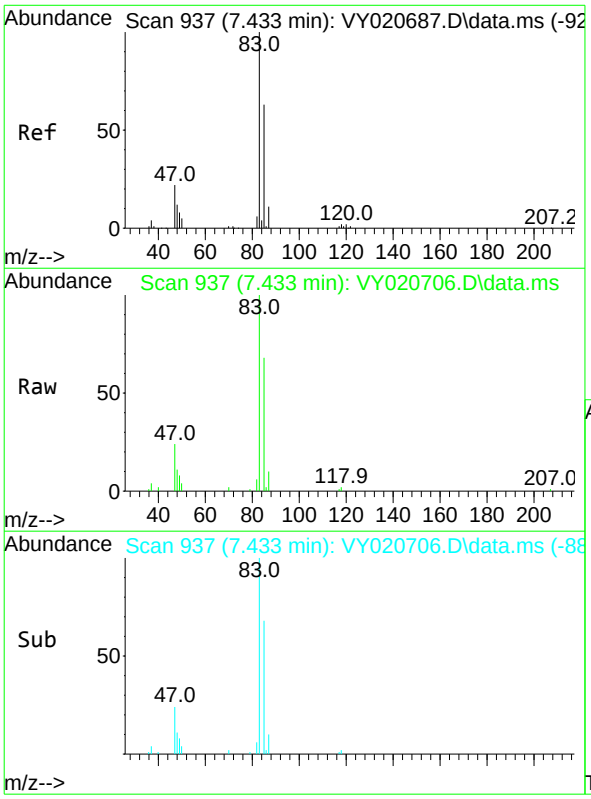
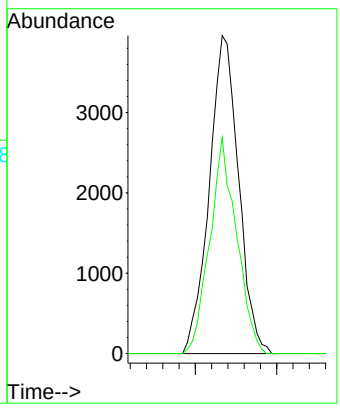
Supervised By :Semsettin Yesilyurt 12/27/2024

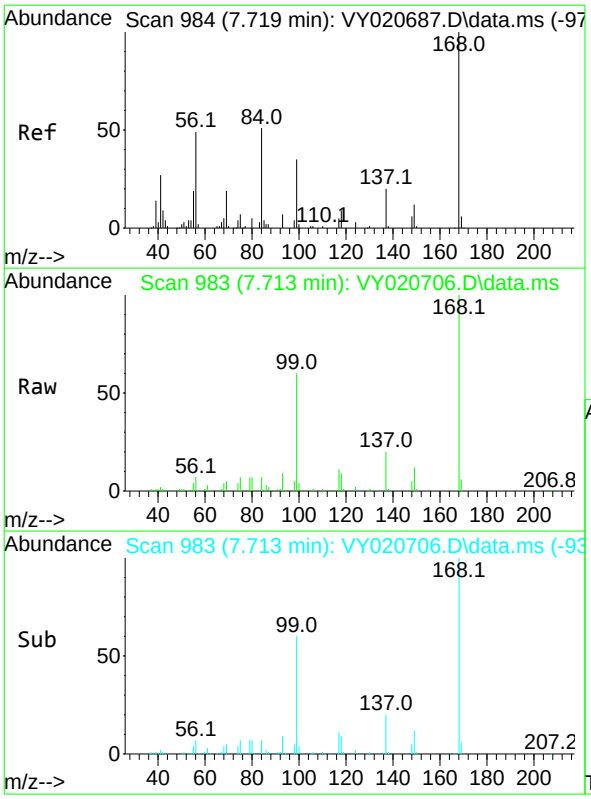



#30
Chloroform
Concen: 5.350 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 83 Resp: 9912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.9 | 50.2 | 75.2 |

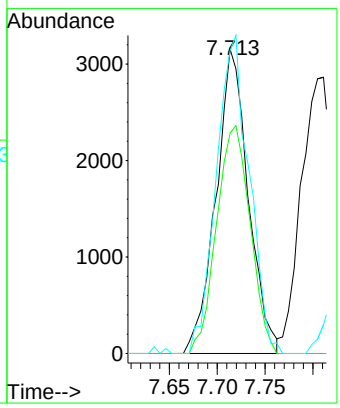





#31
Cyclohexane
Concen: 5.976 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 56 Resp: 7429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 72.4 | 31.3 | 46.9# |
| 84 | 99.5 | 83.9 | 125.9 |




**Instrument :**
MSVOA_Y
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VSTDICC005

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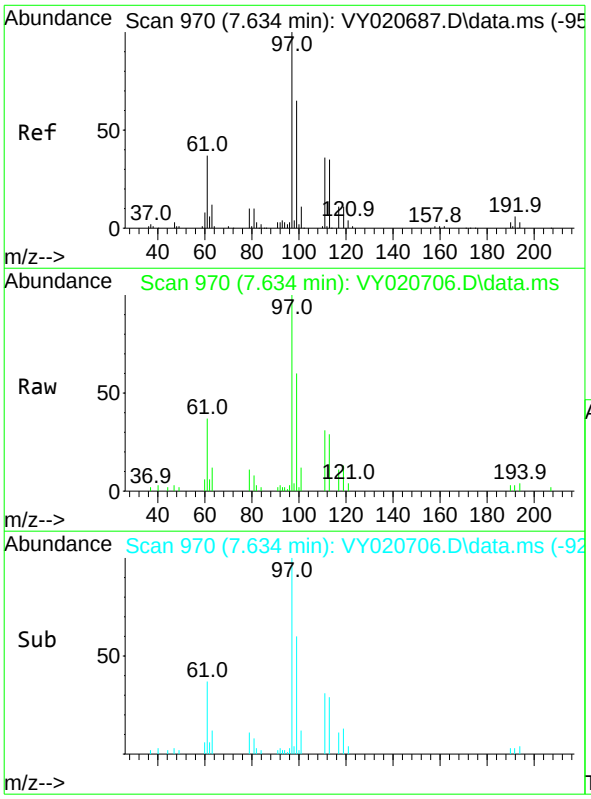
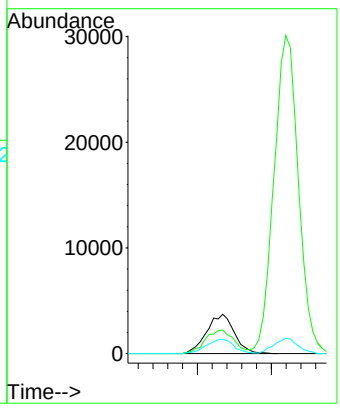
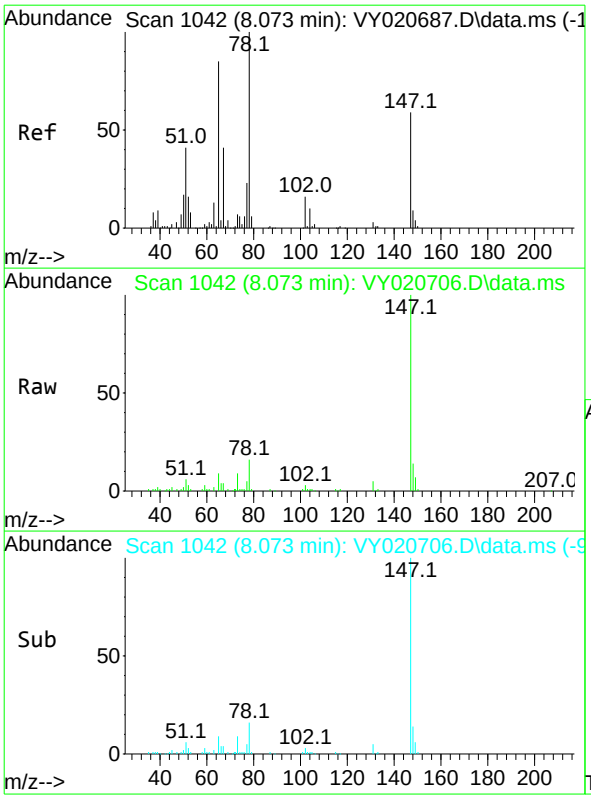



#32
1,1,1-Trichloroethane
Concen: 4.844 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 97 Resp: 9621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.6 | 51.0 | 76.6 |
| 61 | 36.3 | 30.0 | 45.0 |

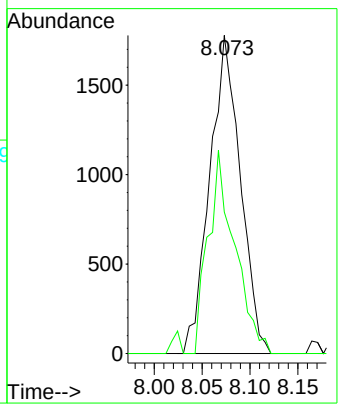





#33
1,2-Dichloroethane-d4
Concen: 4.087 ug/l
RT: 8.073 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 65 Resp: 3955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 55.7 | 0.0 | 98.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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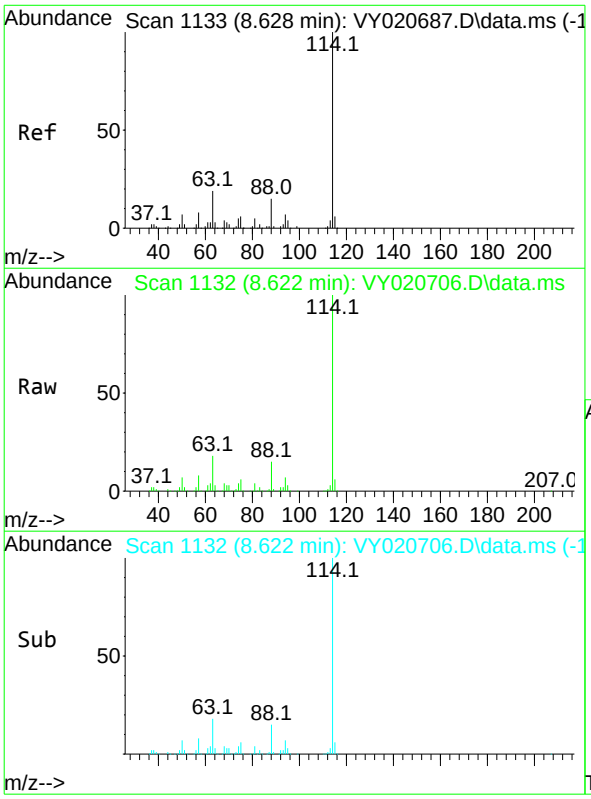
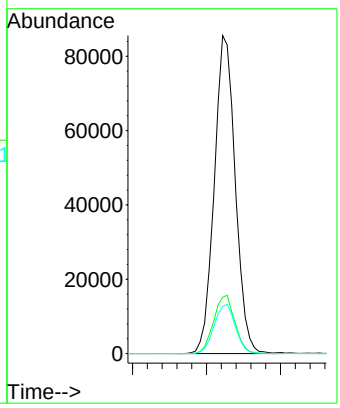
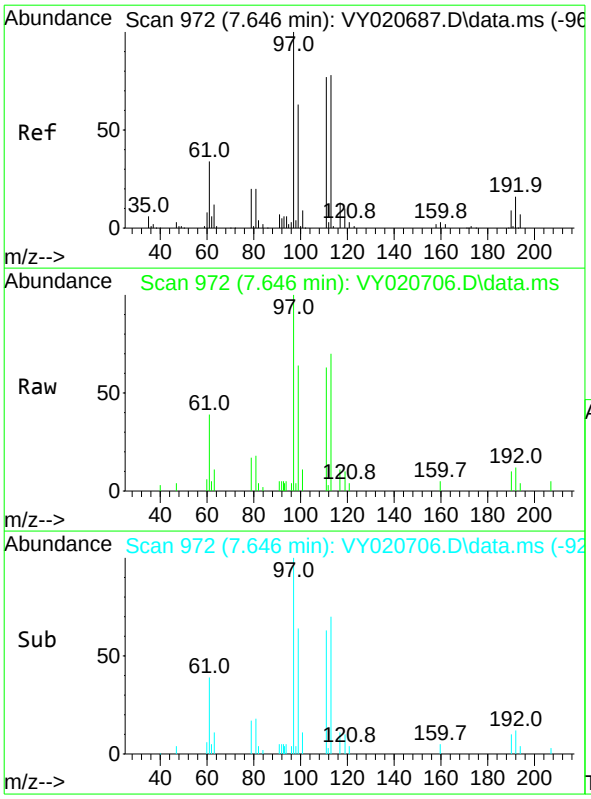



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:114 Resp: 168634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.7 | 0.0 | 38.4 |
| 88 | 14.8 | 0.0 | 30.4 |

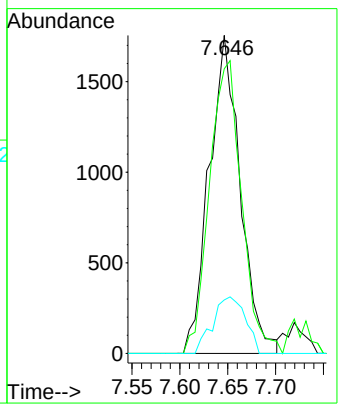





#35
Dibromofluoromethane
Concen: 4.270 ug/l
RT: 7.646 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:113 Resp: 3966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 95.0 | 79.8 | 119.8 |
| 192 | 18.7 | 17.0 | 25.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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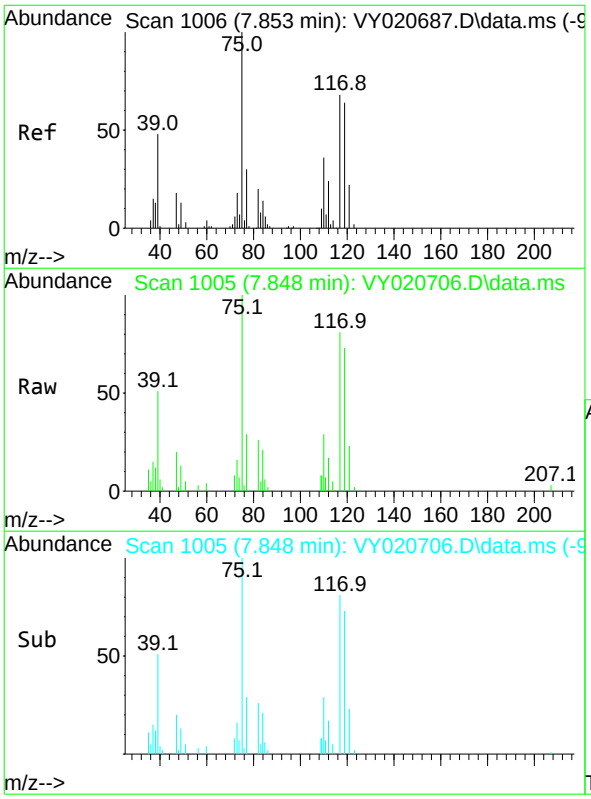
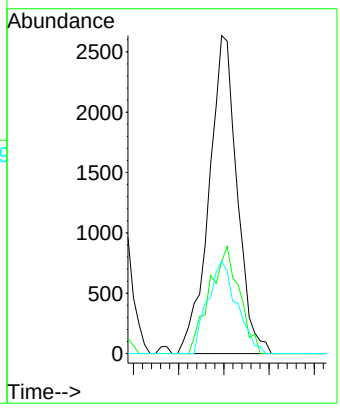
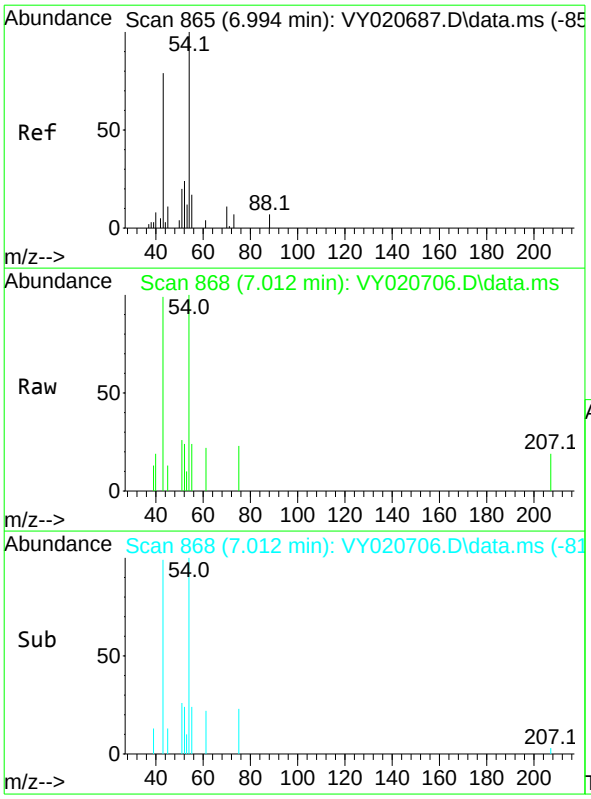



#36
1,1-Dichloropropene
Concen: 4.633 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. -0.005 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 75 Resp: 5685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.6 | 19.6 | 58.7 |
| 77 | 30.2 | 25.1 | 37.7 |

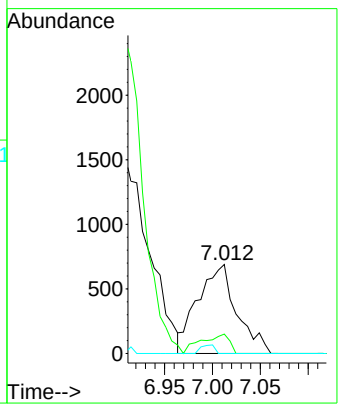





#37
Ethyl Acetate
Concen: 4.825 ug/l
RT: 7.012 min Scan# 86
Delta R.T. 0.018 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 1951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.8 | 11.7 | 17.5 |
| 70 | 3.3 | 11.0 | 16.4# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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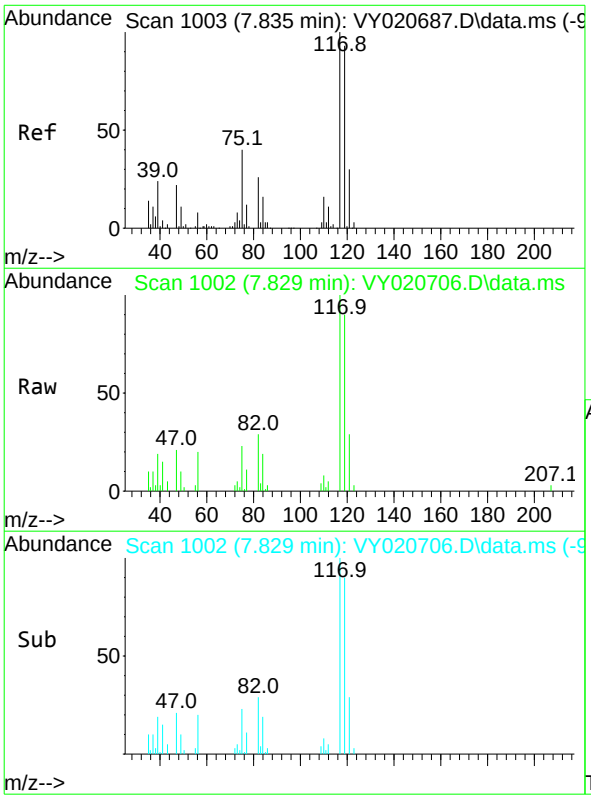
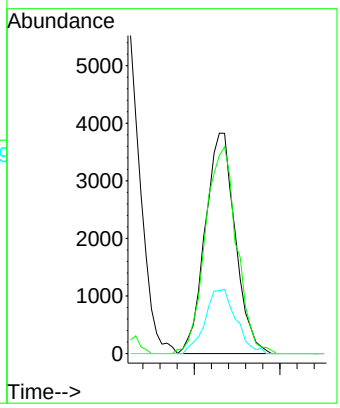
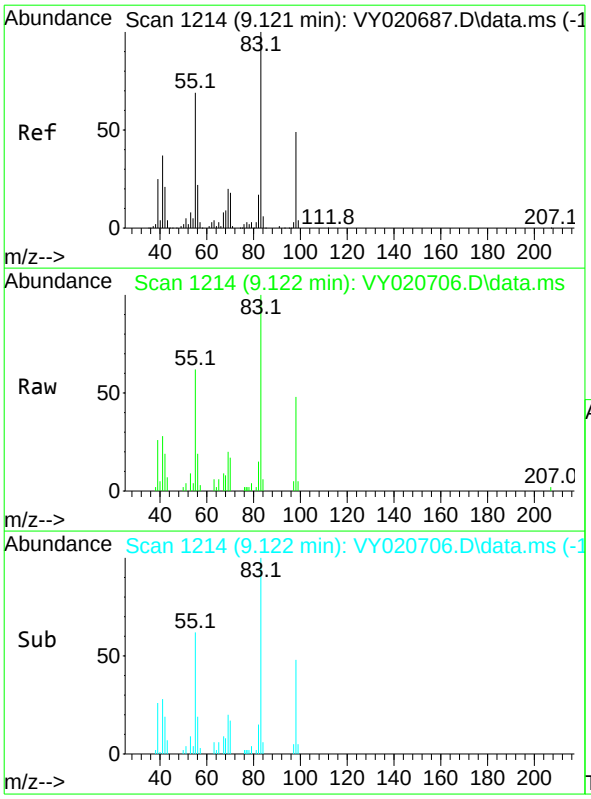



#38
Carbon Tetrachloride
Concen: 4.638 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:117 Resp: 9371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 89.9 | 74.4 | 111.6 |
| 121 | 28.6 | 24.2 | 36.2 |

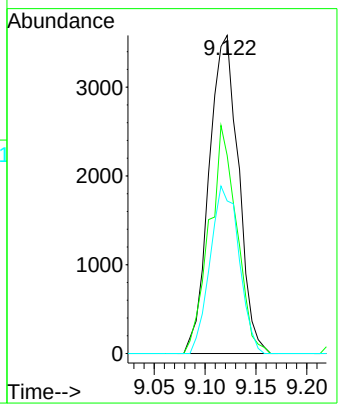





#39
Methylcyclohexane
Concen: 4.576 ug/l
RT: 9.122 min Scan# 12
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 83 Resp: 7196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 62.3 | 55.0 | 82.4 |
| 98 | 48.0 | 39.0 | 58.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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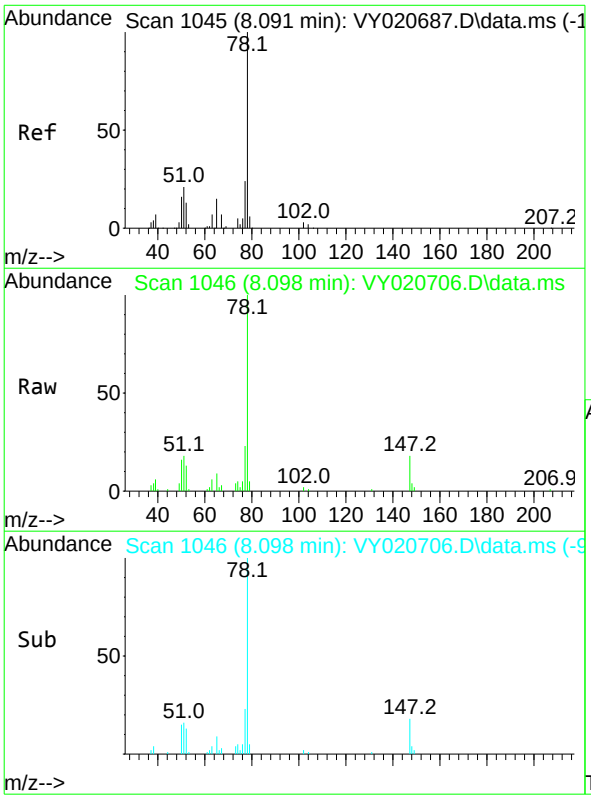
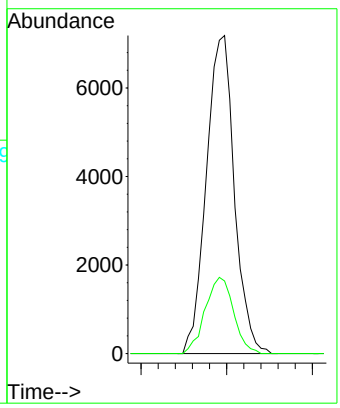
Supervised By :Semsettin Yesilyurt 12/27/2024

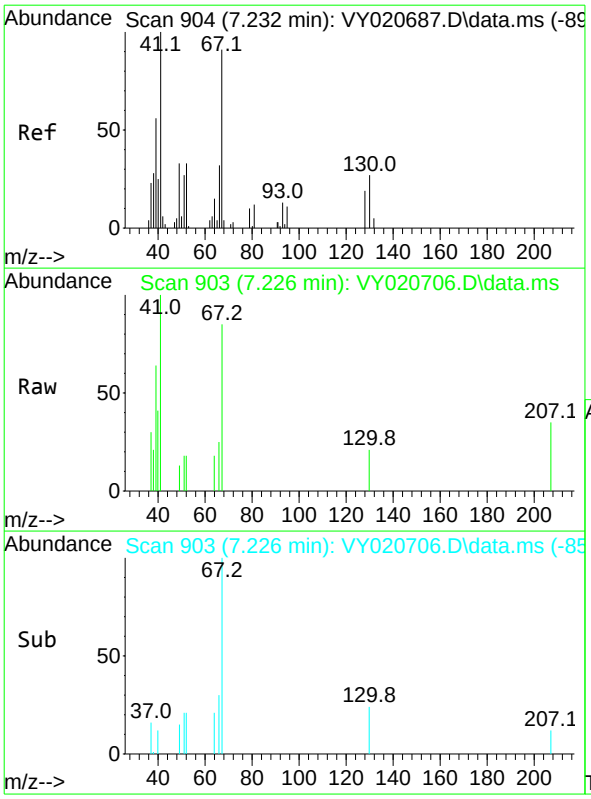



#40
Benzene
Concen: 4.595 ug/l
RT: 8.098 min Scan# 1046
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 78 Resp: 16340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.8 | 19.2 | 28.8 |

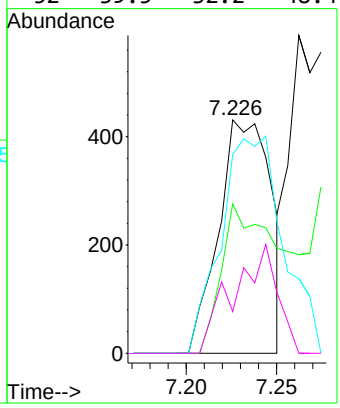





#41
Methacrylonitrile
Concen: 4.235 ug/l
RT: 7.226 min Scan# 90
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 41 Resp: 865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.3 | 46.6 | 70.0# |
| 67 | 110.8 | 74.7 | 112.1 |
| 52 | 39.5 | 32.2 | 48.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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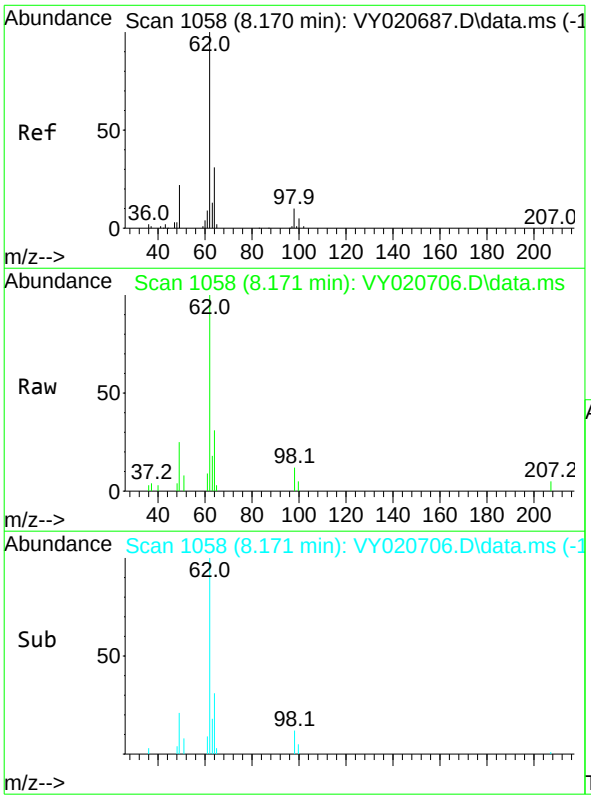
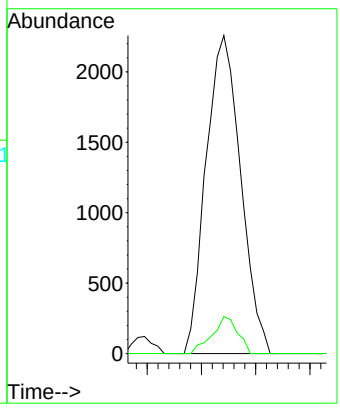
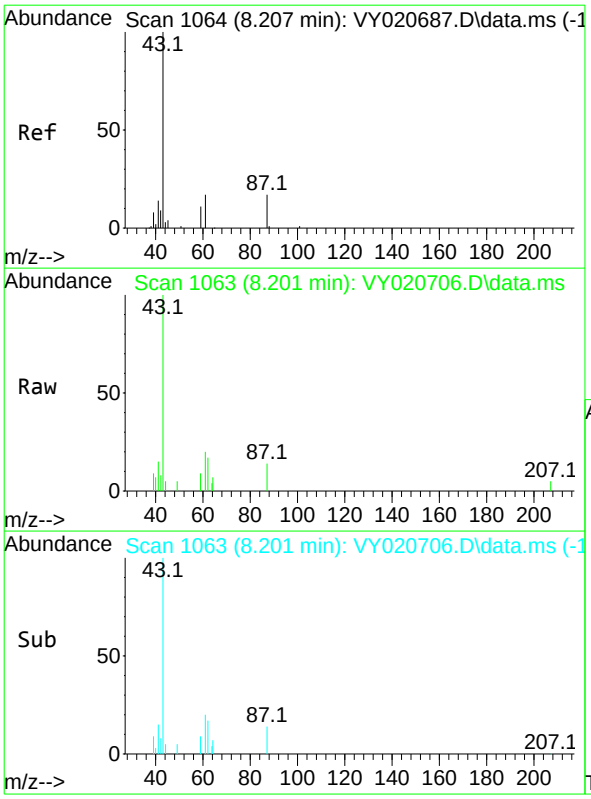



#42
1,2-Dichloroethane
Concen: 4.396 ug/l
RT: 8.171 min Scan# 1058
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 62 Resp: 5012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.6 | 0.0 | 16.6 |

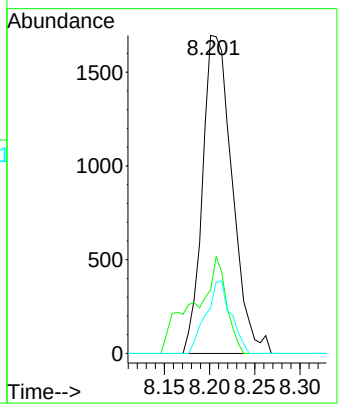





#43
Isopropyl Acetate
Concen: 4.500 ug/l
RT: 8.201 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 3867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 33.5 | 27.0 | 40.4 |
| 87 | 19.1 | 14.2 | 21.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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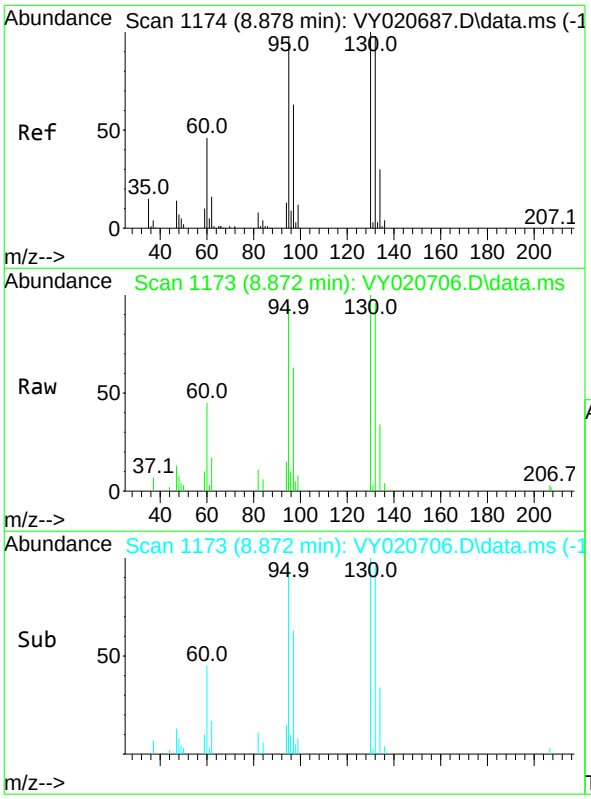
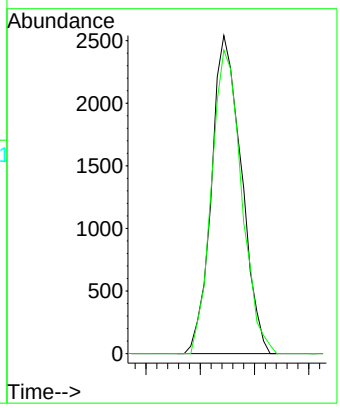
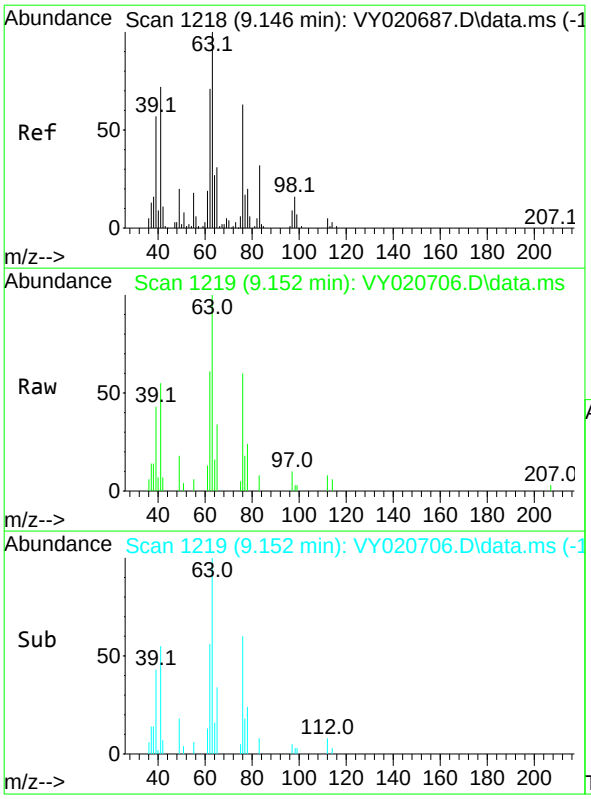



#44
Trichloroethene
Concen: 4.578 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:130 Resp: 4862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.4 | 0.0 | 194.8 |

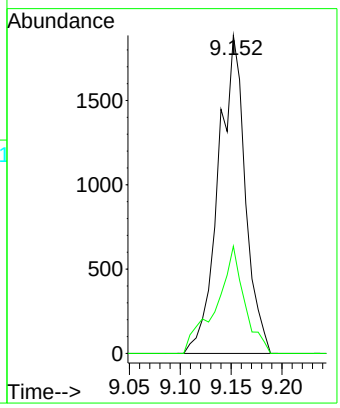





#45
1,2-Dichloropropane
Concen: 4.810 ug/l
RT: 9.152 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 63 Resp: 3462

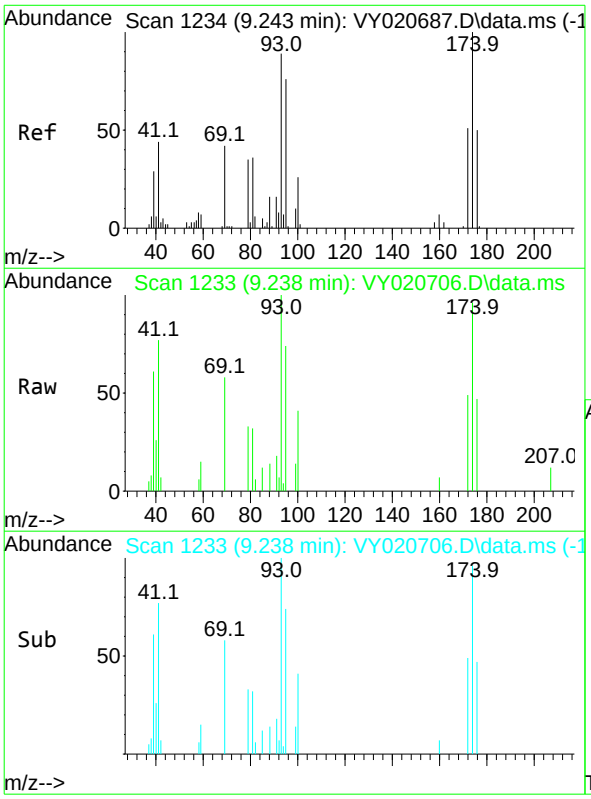
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.7 | 24.6 | 36.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

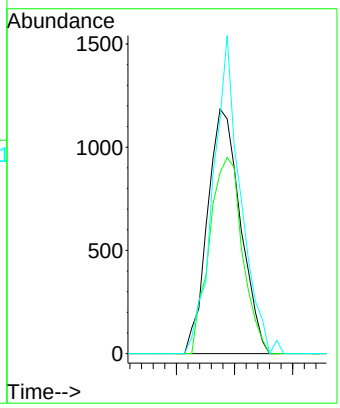
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

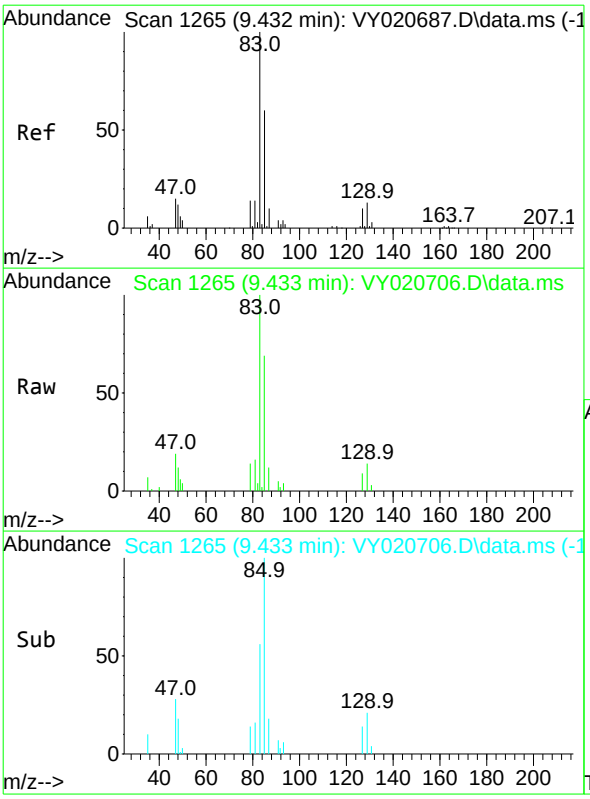



#46
Dibromomethane
Concen: 4.678 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.005 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 93 Resp: 2330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.4 | 67.8 | 101.8 |
| 174 | 108.5 | 89.4 | 134.0 |

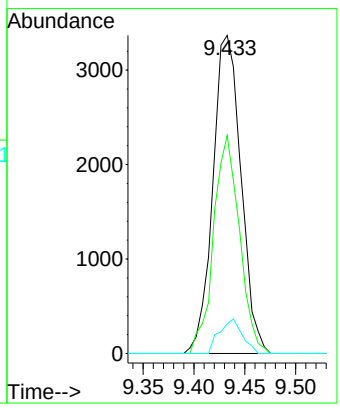





#47
Bromodichloromethane
Concen: 4.581 ug/l
RT: 9.433 min Scan# 12
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 83 Resp: 6469

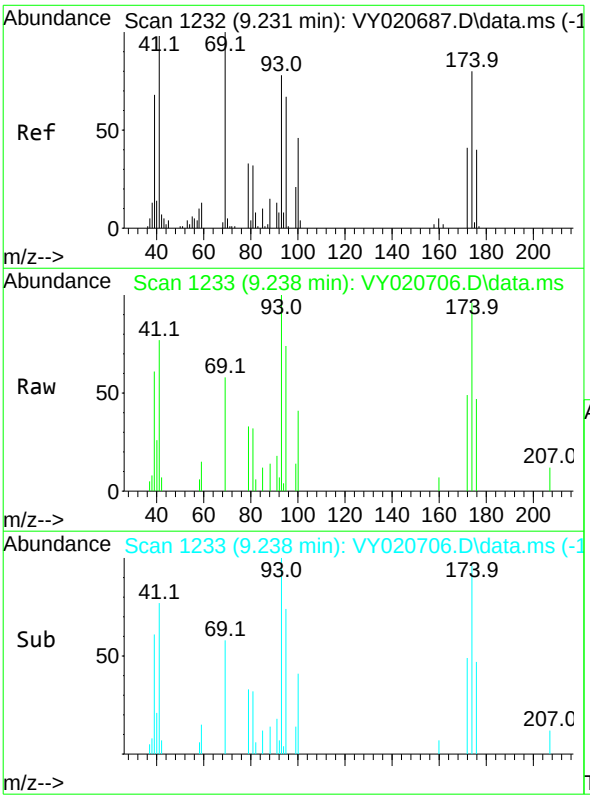
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.5 | 47.6 | 71.4 |
| 127 | 9.3 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

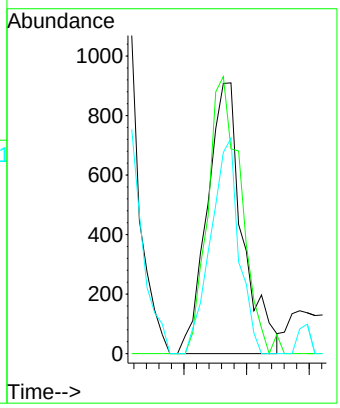
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

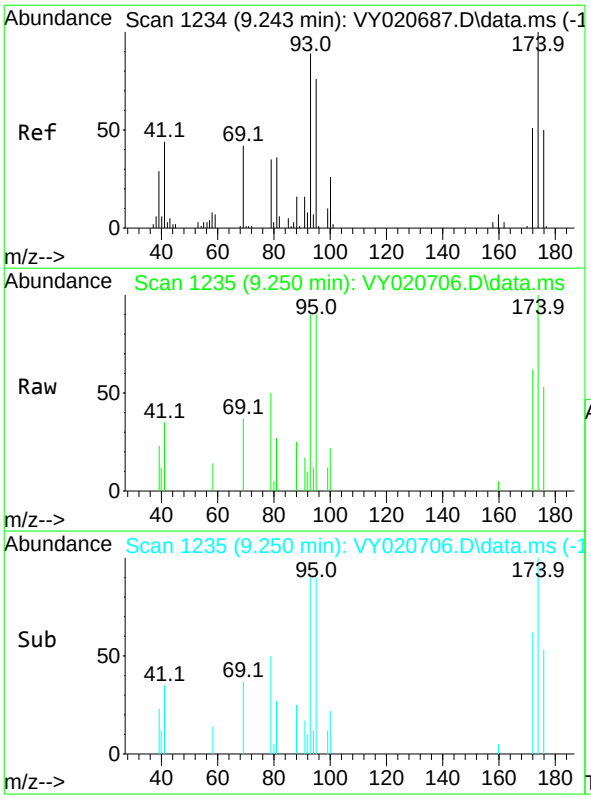



#48
Methyl methacrylate
Concen: 4.445 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 41 Resp: 1784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.5 | 83.1 | 124.7 |
| 39 | 63.7 | 57.3 | 85.9 |

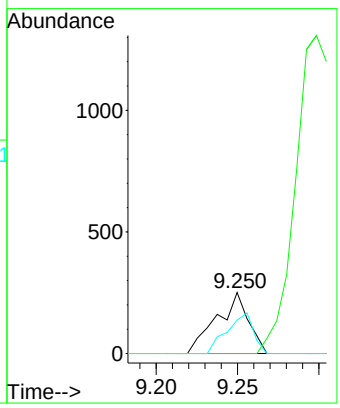





#49
1,4-Dioxane
Concen: 72.090 ug/l
RT: 9.250 min Scan# 12
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 88 Resp: 342

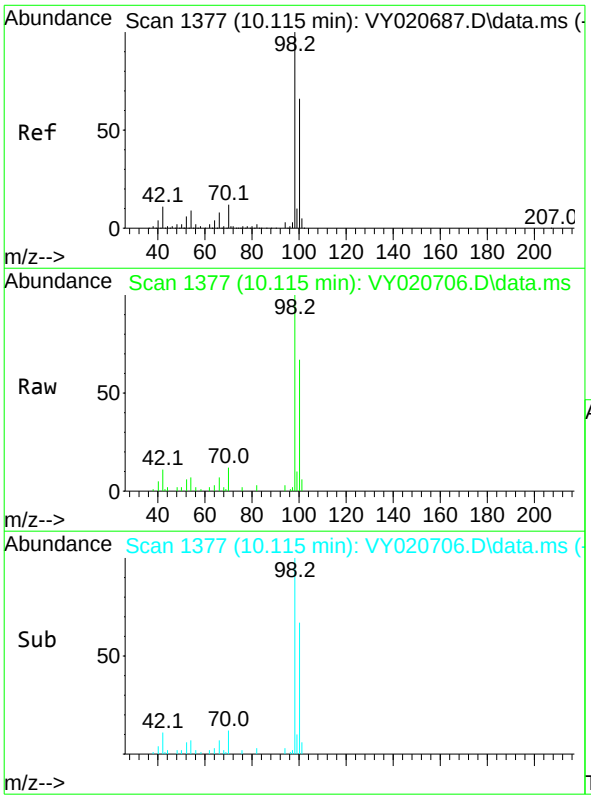
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 22.1 | 33.1# |
| 58 | 55.0 | 46.7 | 70.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

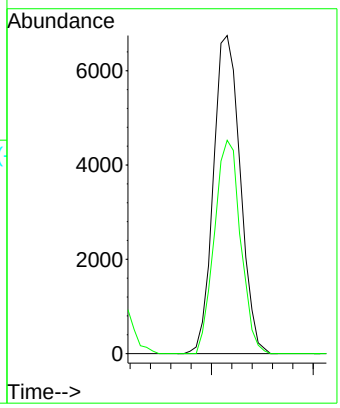
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

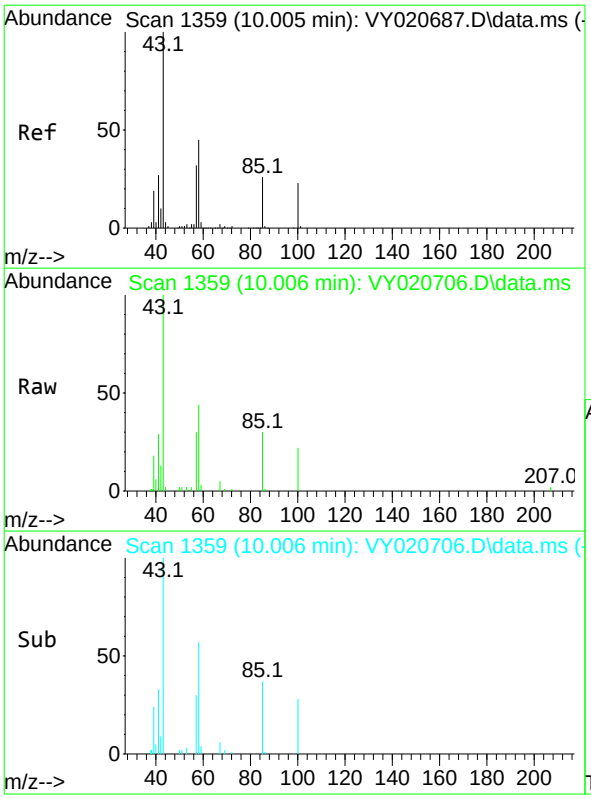



#50
Toluene-d8
Concen: 4.957 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 98 Resp: 12366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.2 | 78.4 |

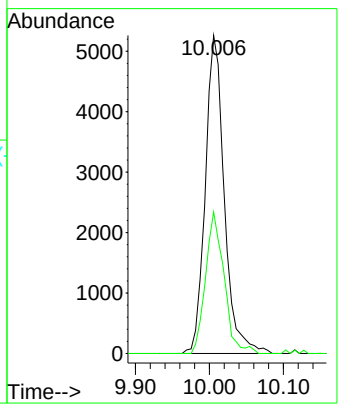





#51
4-Methyl-2-Pentanone
Concen: 22.620 ug/l
RT: 10.006 min Scan# 13
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 9383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.3 | 35.1 | 52.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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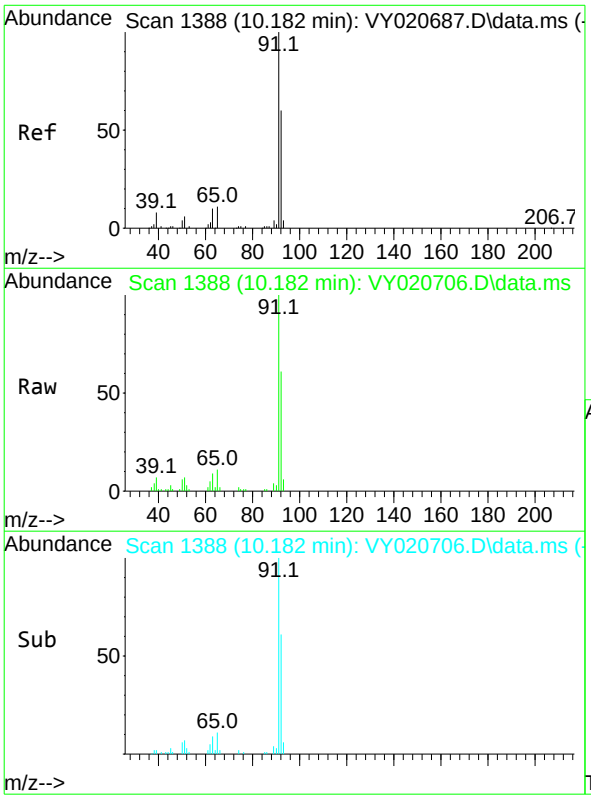
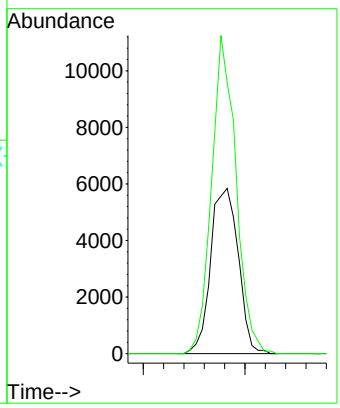
Supervised By :Semsettin Yesilyurt 12/27/2024

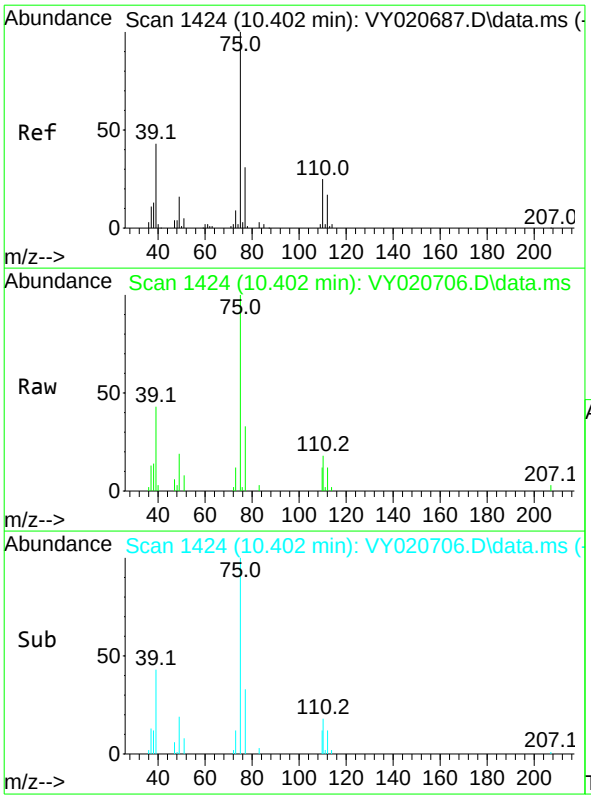



#52
Toluene
Concen: 4.526 ug/l
RT: 10.182 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 92 Resp: 11031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.0 | 137.7 | 206.5 |

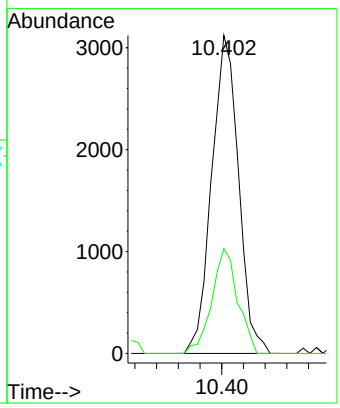





#53
t-1,3-Dichloropropene
Concen: 4.320 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 75 Resp: 5357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.1 | 37.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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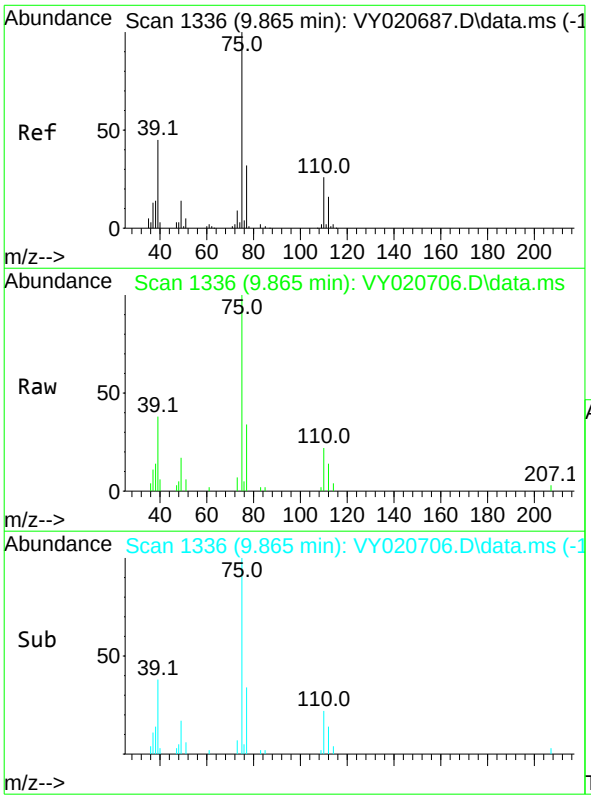
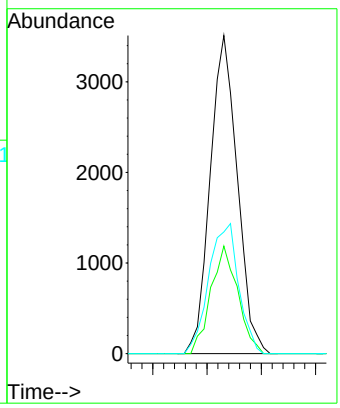
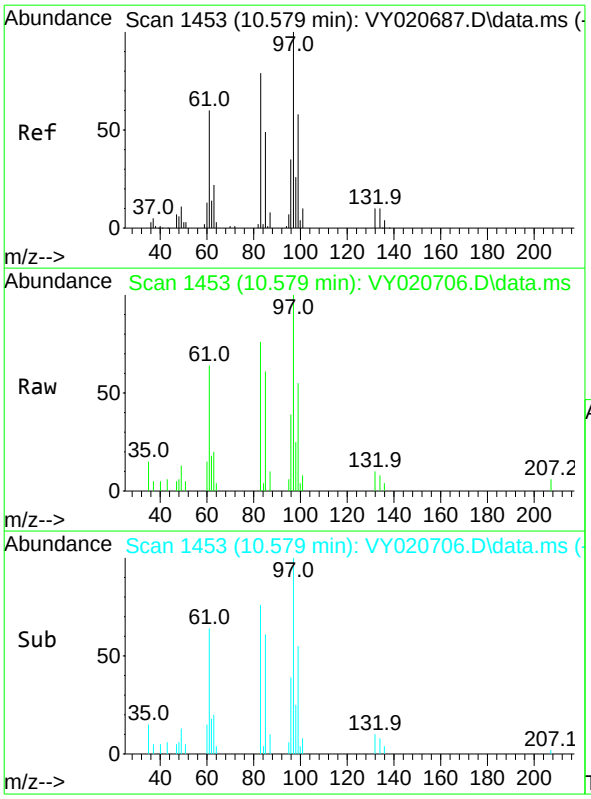



#54
cis-1,3-Dichloropropene
Concen: 4.481 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 75 Resp: 6091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.8 | 25.6 | 38.4 |
| 39 | 38.3 | 36.2 | 54.2 |

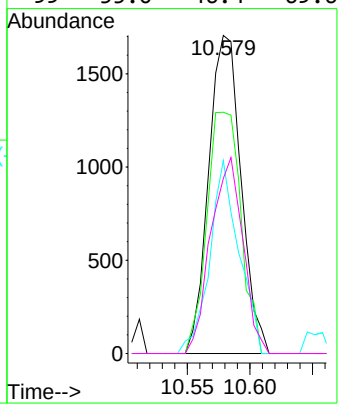





#55
1,1,2-Trichloroethane
Concen: 4.826 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 97 Resp: 3068

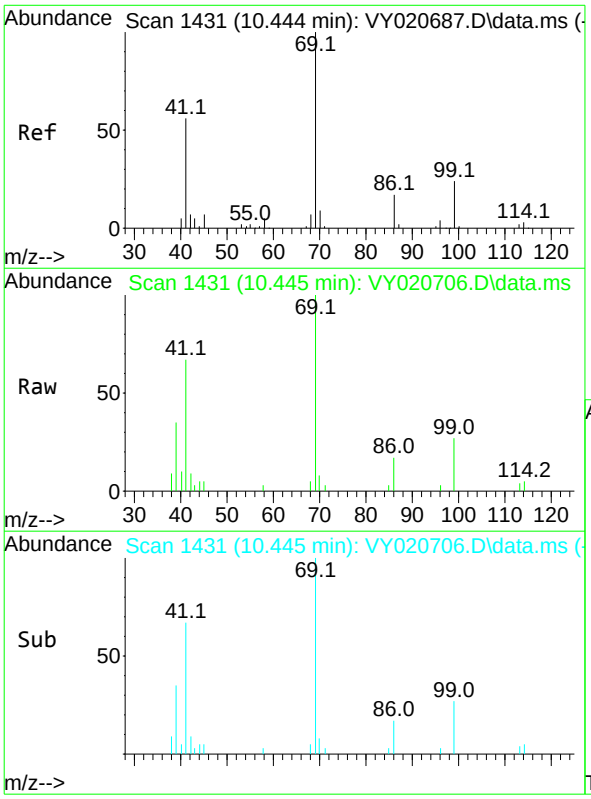
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 75.8 | 63.1 | 94.7 |
| 85 | 60.6 | 39.5 | 59.3# |
| 99 | 55.0 | 46.4 | 69.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

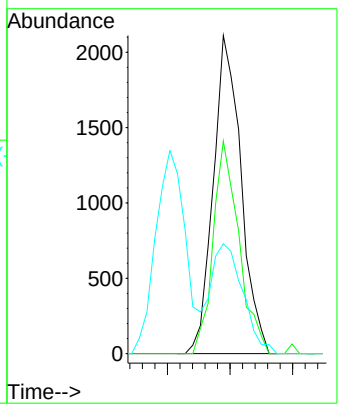
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

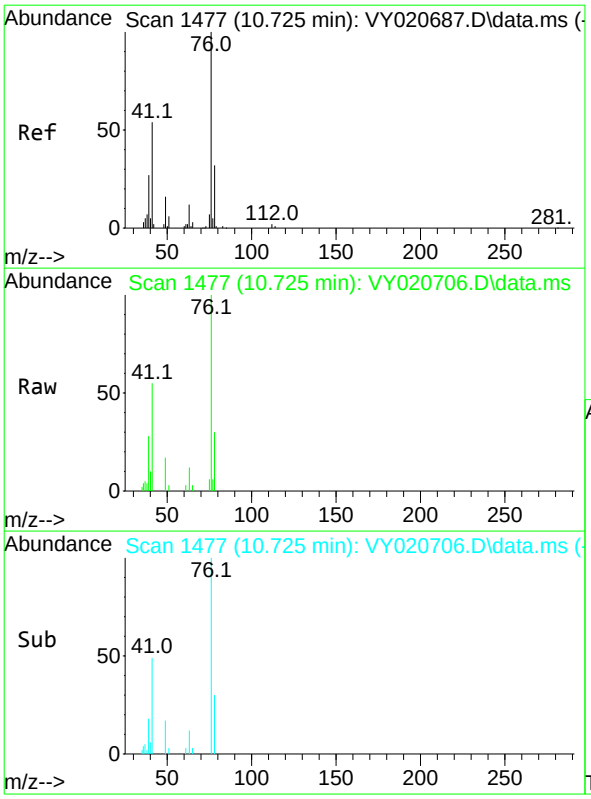



#56
Ethyl methacrylate
Concen: 3.891 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 69 Resp: 3250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.1 | 43.8 | 65.6 |
| 39 | 39.8 | 32.0 | 48.0 |

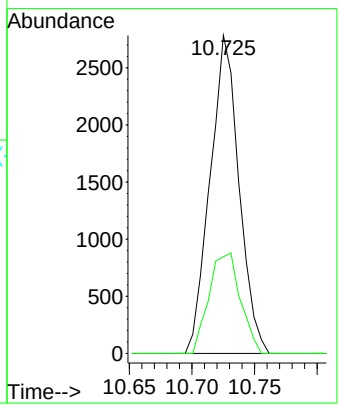





#57
1,3-Dichloropropane
Concen: 4.337 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 76 Resp: 4475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 34.2 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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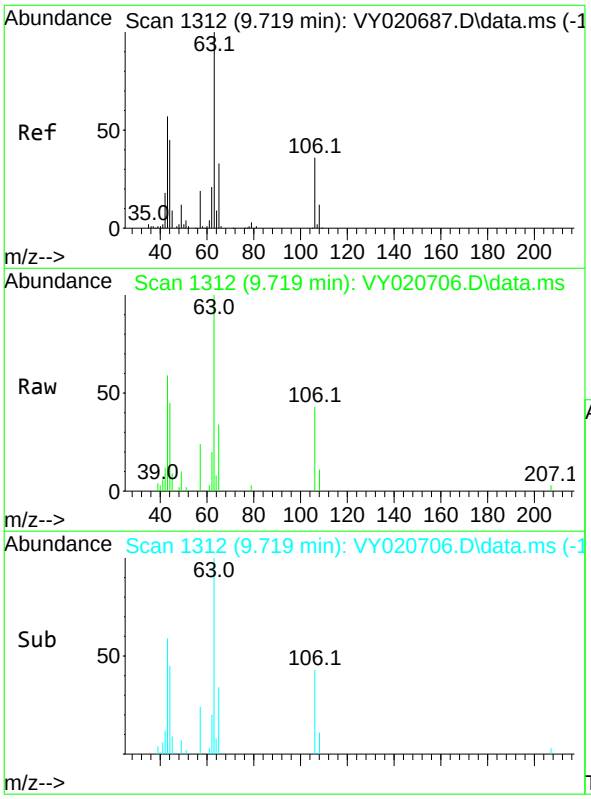
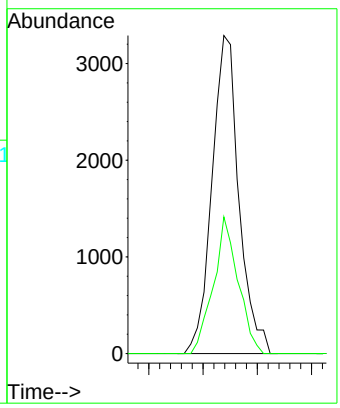
Supervised By :Semsettin Yesilyurt 12/27/2024

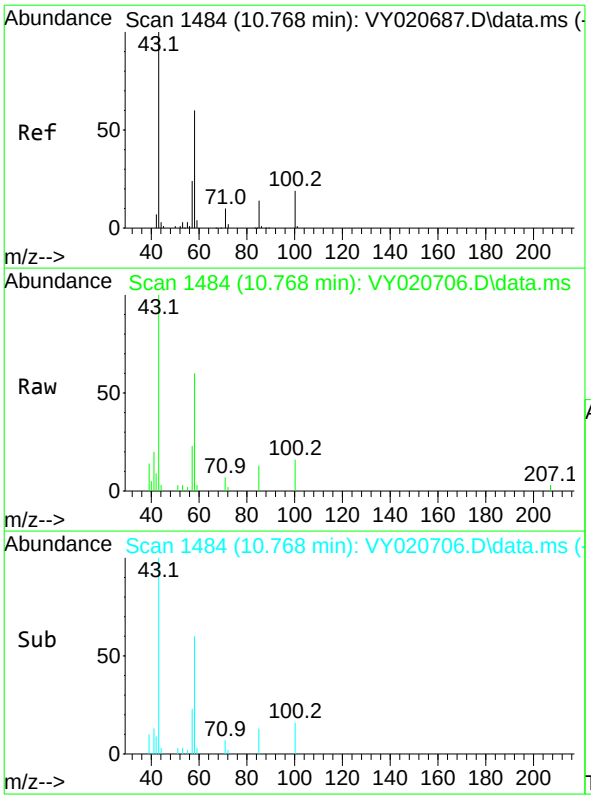



#58
2-Chloroethyl Vinyl ether
Concen: 19.451 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 63 Resp: 5665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 39.4 | 29.1 | 43.7 |

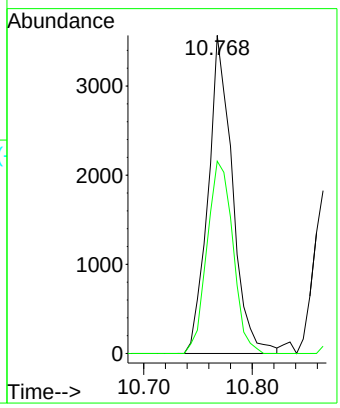





#59
2-Hexanone
Concen: 20.301 ug/l
RT: 10.768 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 5560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 64.2 | 30.1 | 90.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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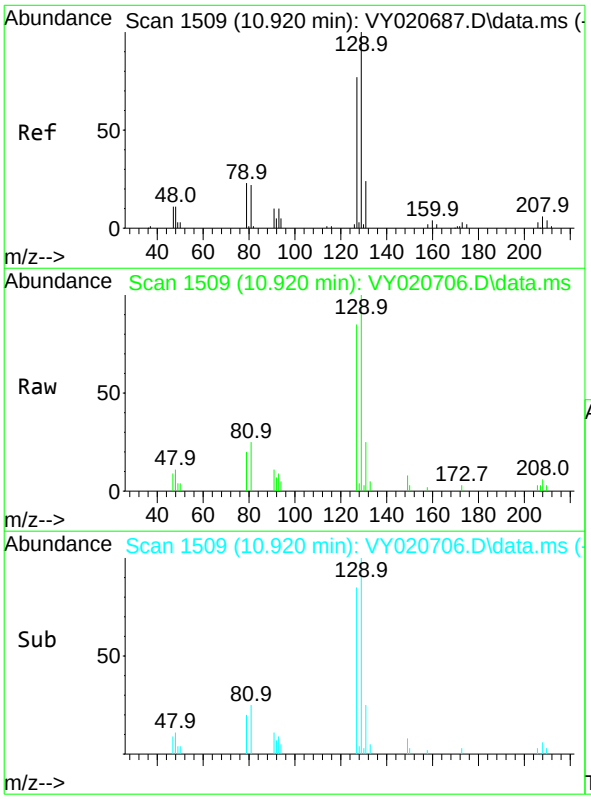
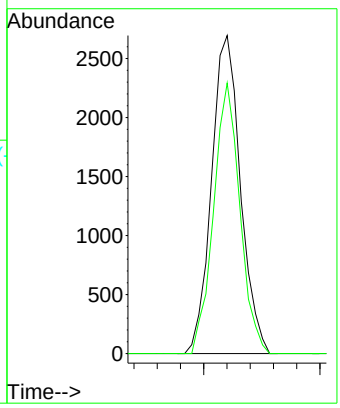
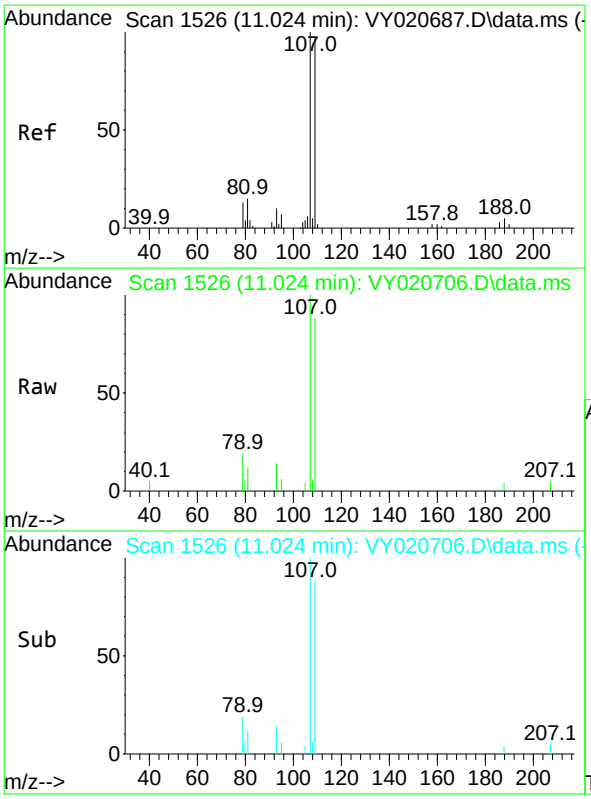



#60
Dibromochloromethane
Concen: 4.532 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:129 Resp: 4656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 4.467 ug/l
RT: 11.024 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:107 Resp: 2672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 87.6 | 75.5 | 113.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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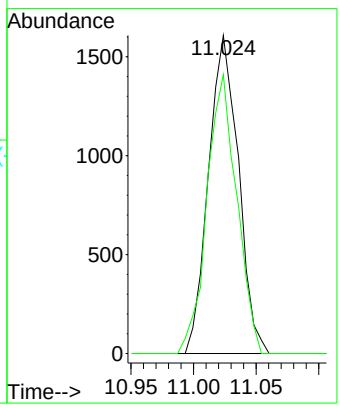
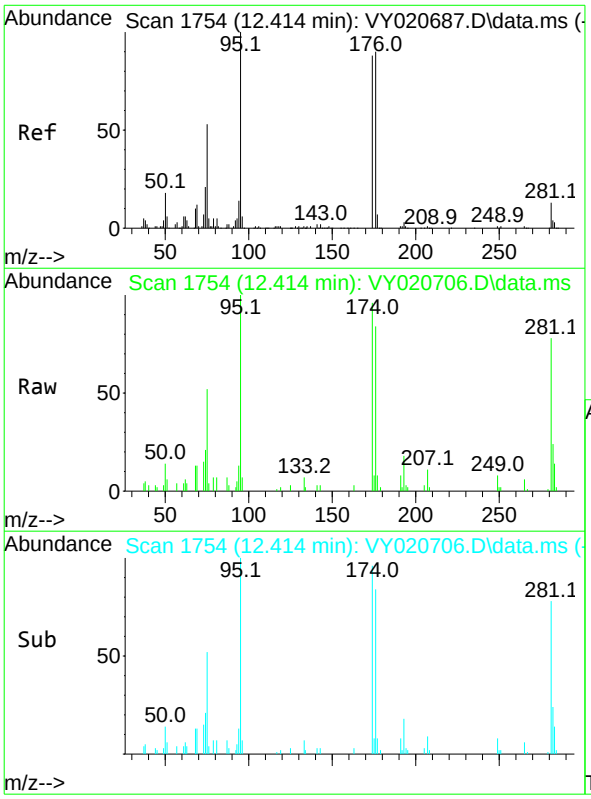
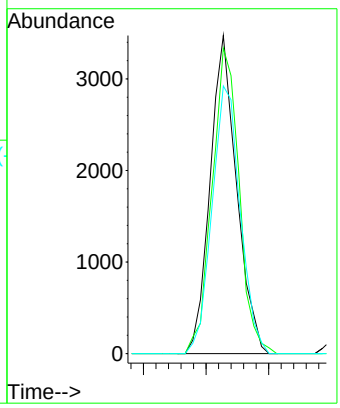


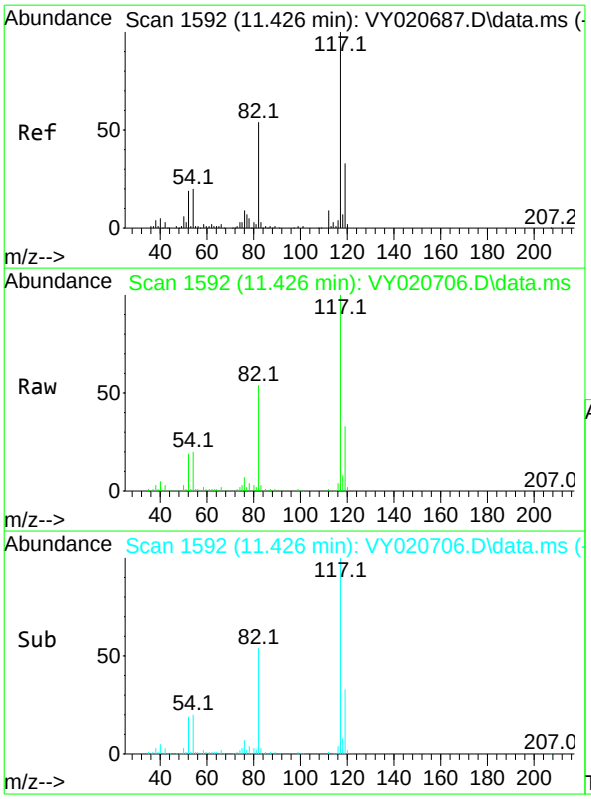




#62
4-Bromofluorobenzene
Concen: 4.139 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 95 Resp: 5109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 97.6 | 0.0 | 179.2 |
| 176 | 89.2 | 0.0 | 179.8 |

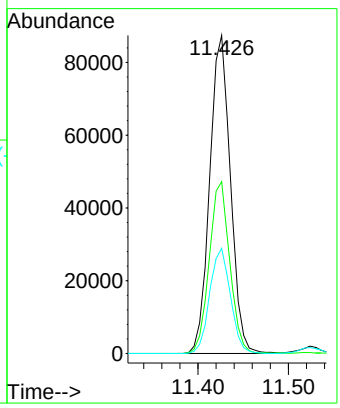





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:117 Resp: 139342

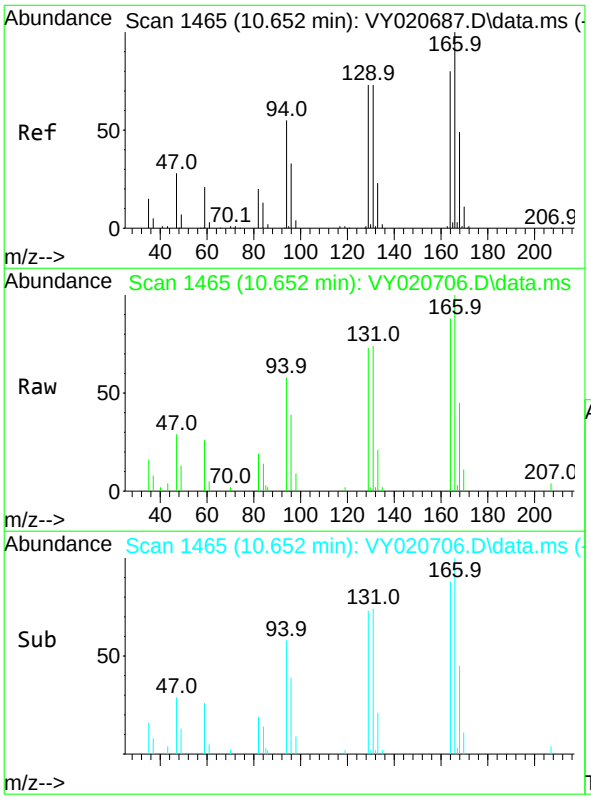
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.0 | 43.4 | 65.2 |
| 119 | 33.1 | 26.6 | 39.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

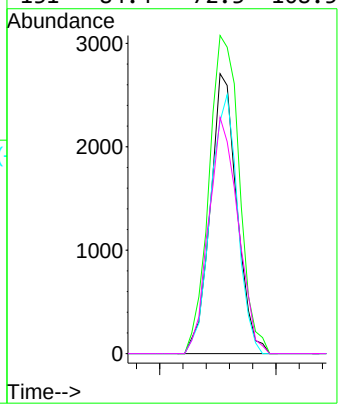
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

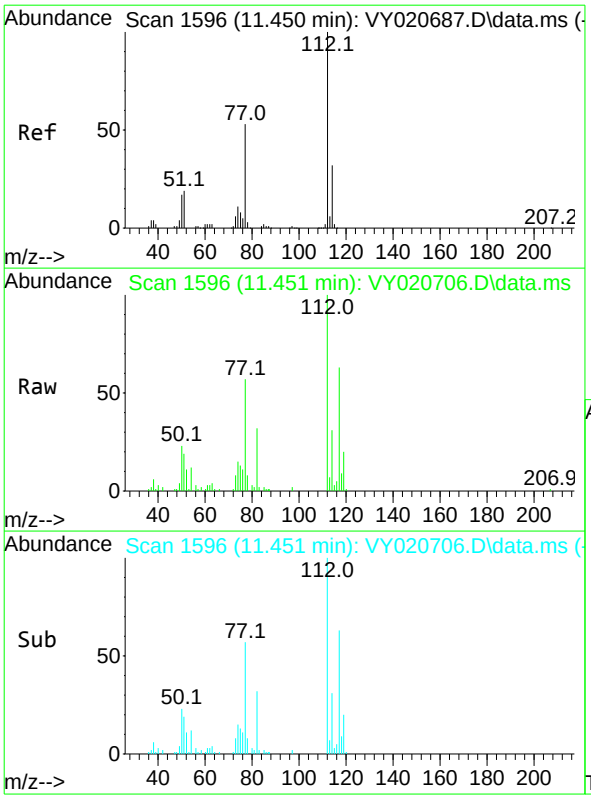



#64
Tetrachloroethene
Concen: 4.511 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:164 Resp: 4294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 113.6 | 99.6 | 149.4 |
| 129 | 83.0 | 73.0 | 109.4 |
| 131 | 84.4 | 72.3 | 108.5 |

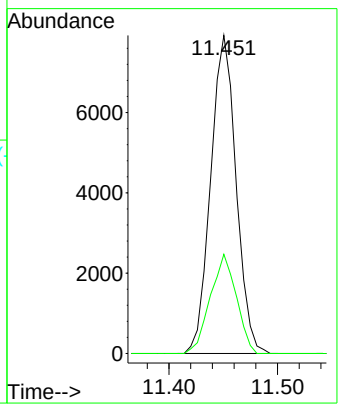





#65
Chlorobenzene
Concen: 4.724 ug/l
RT: 11.451 min Scan# 15
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:112 Resp: 12888

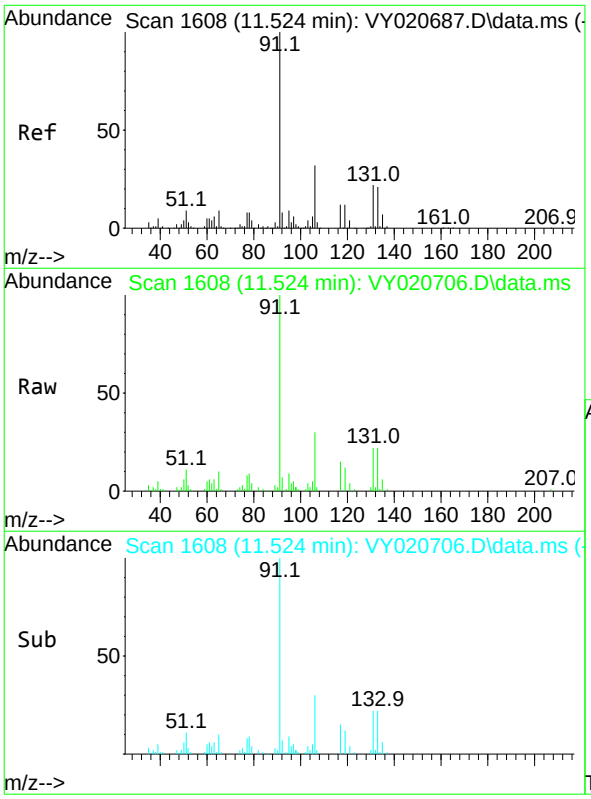
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.2 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

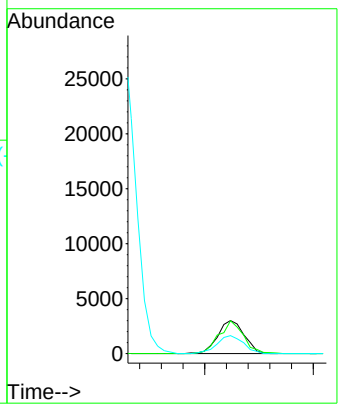
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

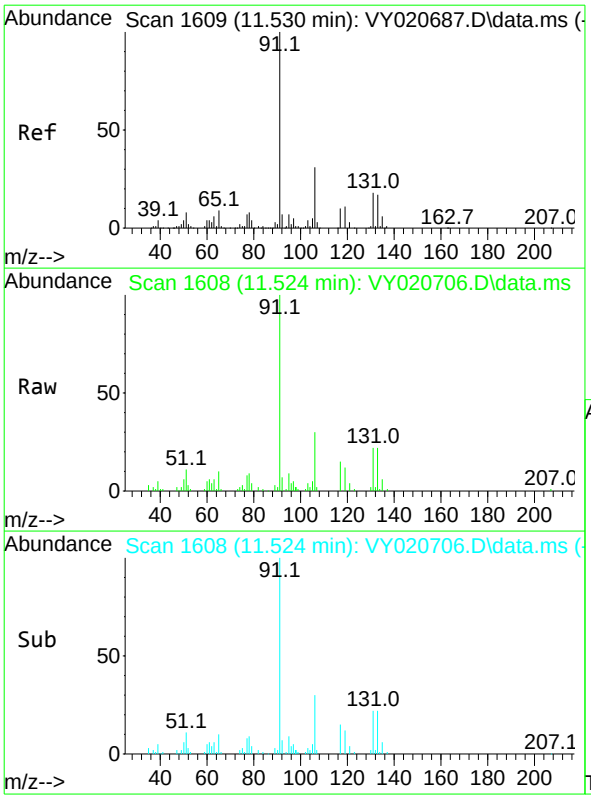



#66
1,1,1,2-Tetrachloroethane
Concen: 4.806 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:131 Resp: 5080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 92.2 | 48.6 | 145.9 |
| 119 | 54.4 | 28.4 | 85.3 |

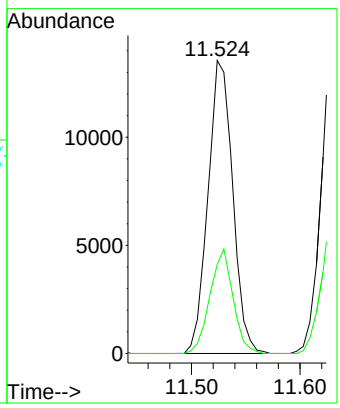





#67
Ethyl Benzene
Concen: 4.499 ug/l
RT: 11.524 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 91 Resp: 21456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 24.5 | 36.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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Reviewed By :Mahesh Dadoda 12/27/2024
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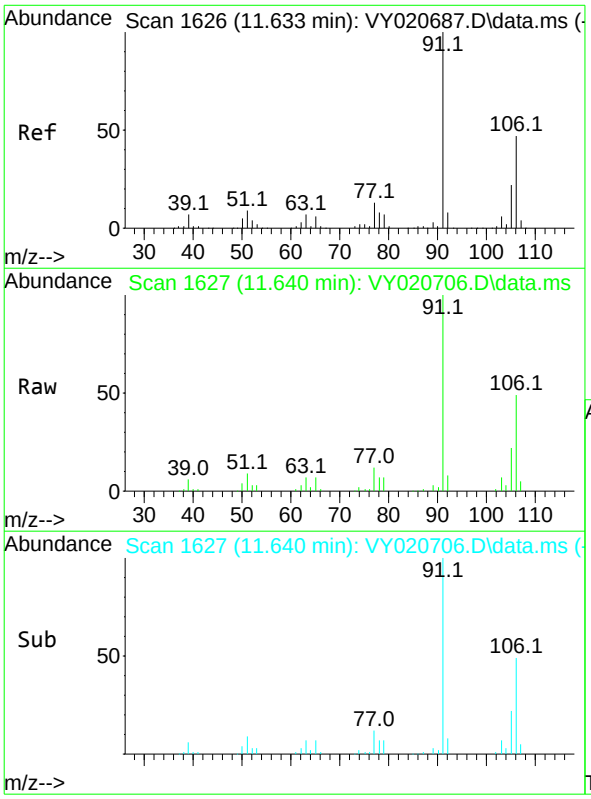
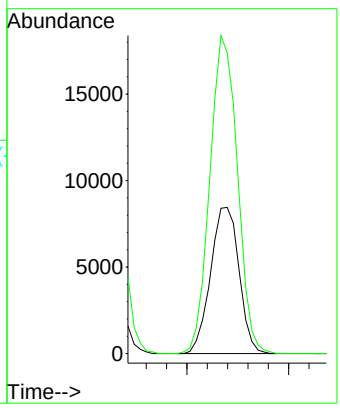
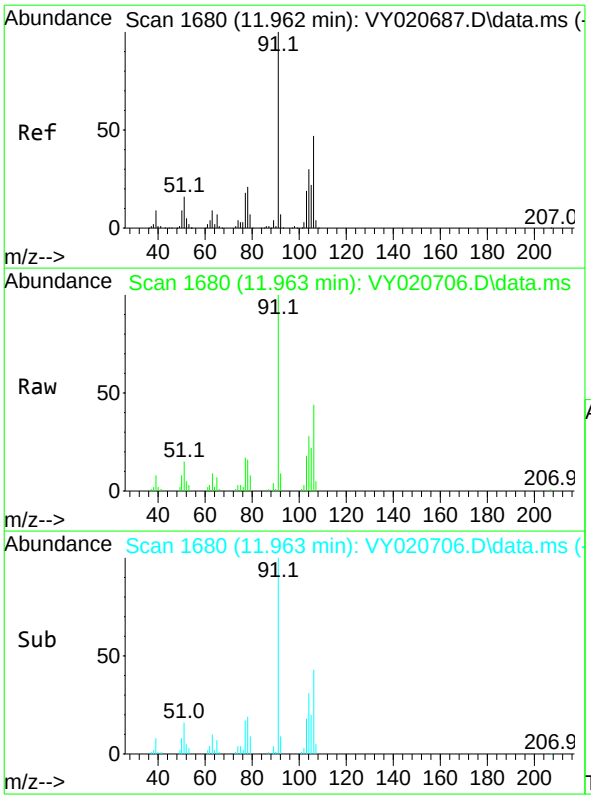



#68
m/p-Xylenes
Concen: 9.042 ug/l
RT: 11.640 min Scan# 1627
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:106 Resp: 16447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.6 | 166.6 | 250.0 |

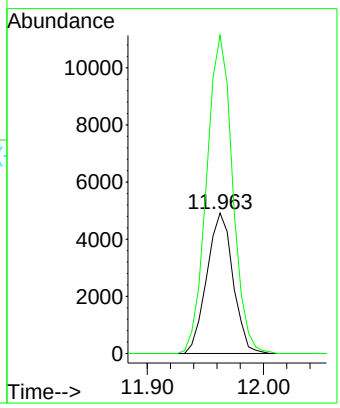





#69
o-Xylene
Concen: 4.425 ug/l
RT: 11.963 min Scan# 16
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:106 Resp: 7691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 224.9 | 108.6 | 325.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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Reviewed By :Mahesh Dadoda 12/27/2024
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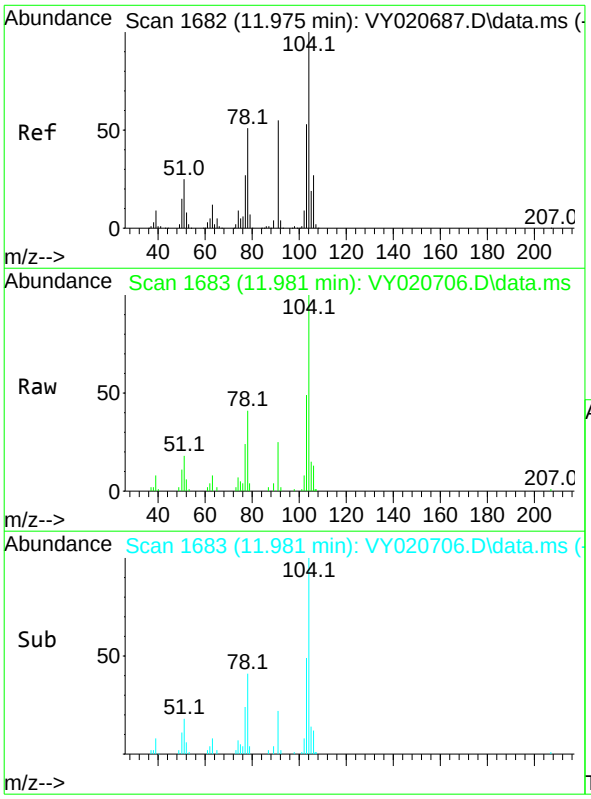
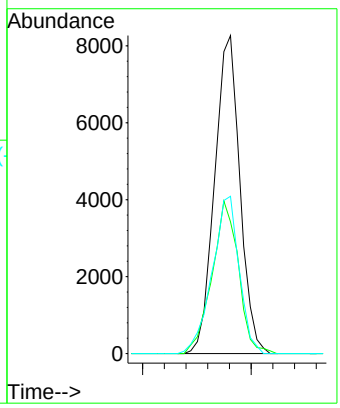
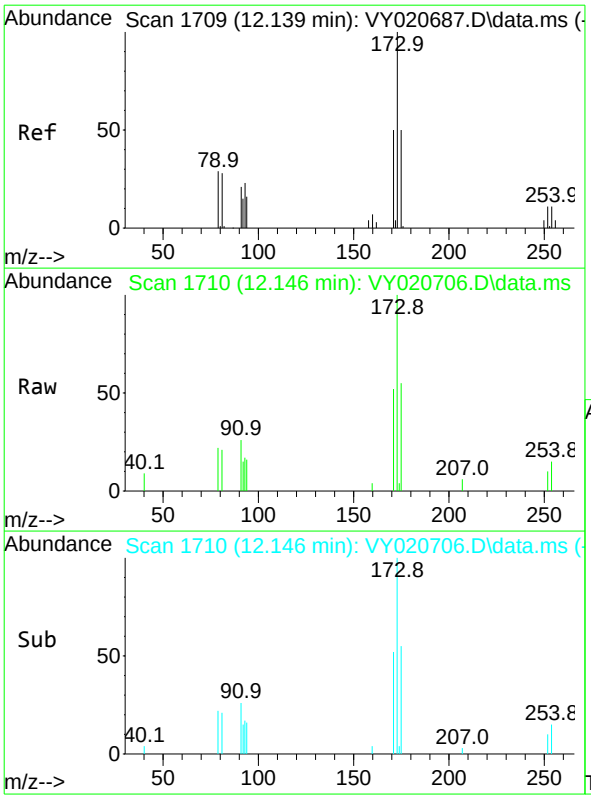



#70
Styrene
Concen: 4.577 ug/l
RT: 11.981 min Scan# 1683
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:104 Resp: 13353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.1 | 43.0 | 64.4 |
| 103 | 52.7 | 44.4 | 66.6 |

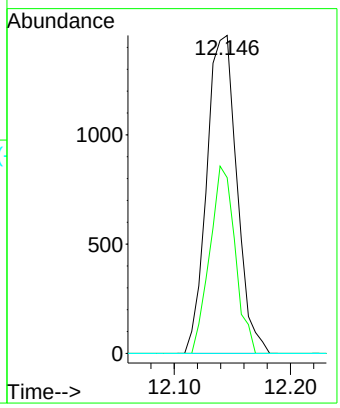





#71
Bromoform
Concen: 4.308 ug/l
RT: 12.146 min Scan# 17
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:173 Resp: 2618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.5 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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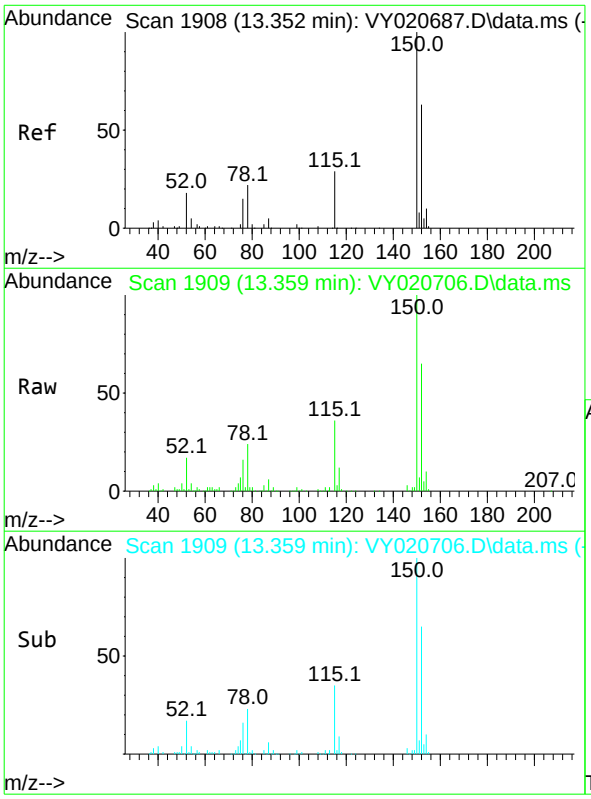
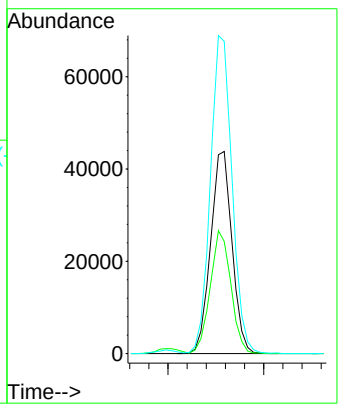
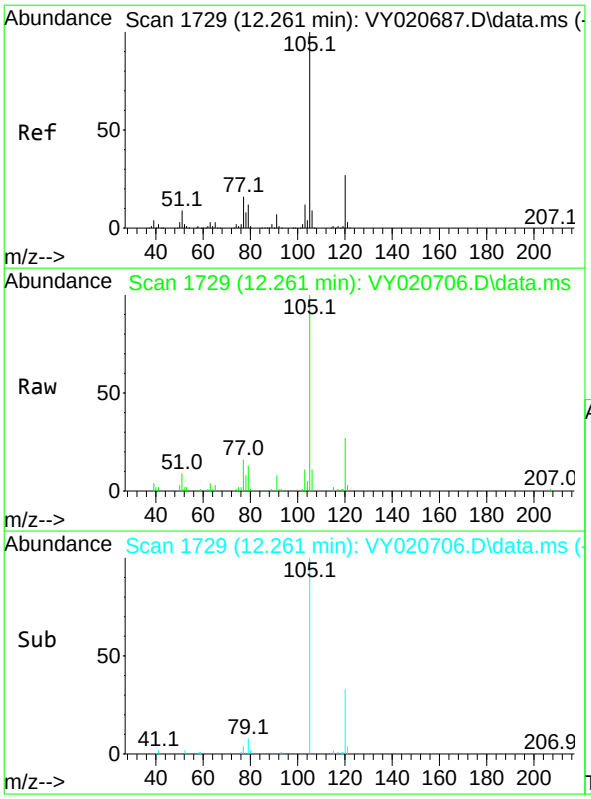



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:152 Resp: 68108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.6 | 30.3 | 90.9 |
| 150 | 158.9 | 0.0 | 349.0 |

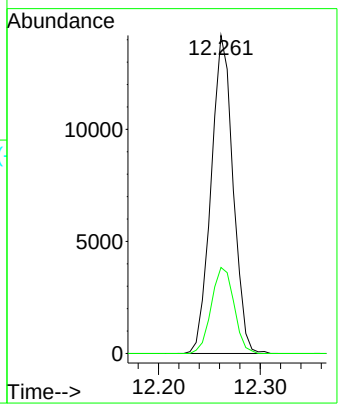





#73
Isopropylbenzene
Concen: 4.508 ug/l
RT: 12.261 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:105 Resp: 21271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.9 | 13.3 | 39.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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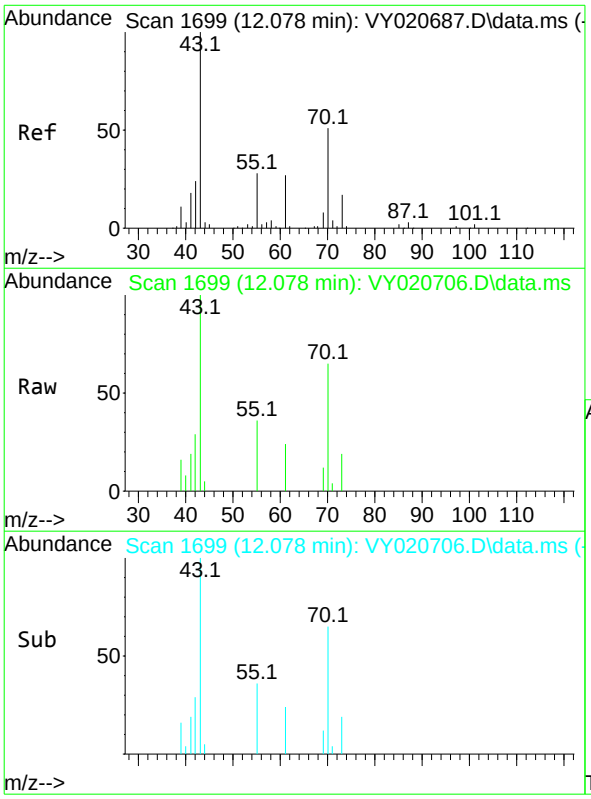
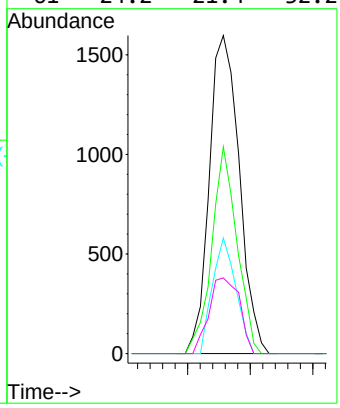
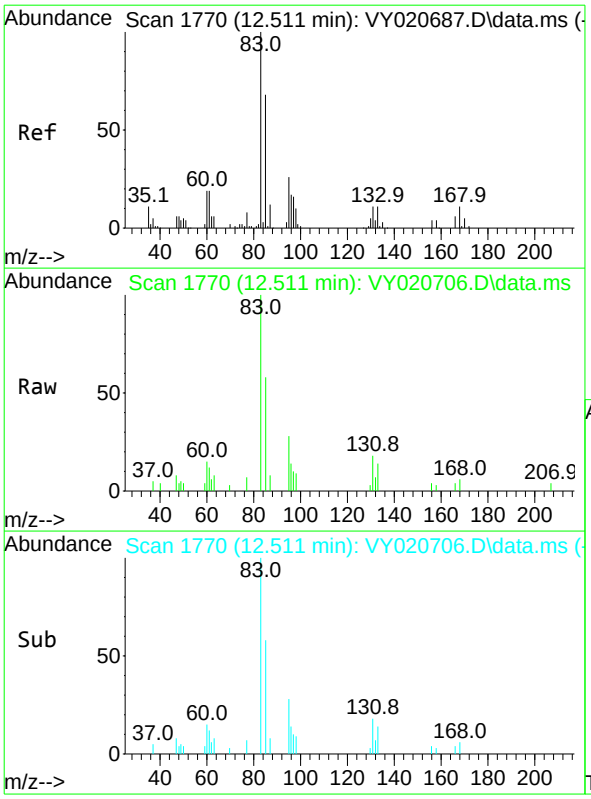



#74
N-amyl acetate
Concen: 3.970 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 2662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 54.7 | 39.7 | 59.5 |
| 55 | 28.3 | 21.5 | 32.3 |
| 61 | 24.2 | 21.4 | 32.2 |

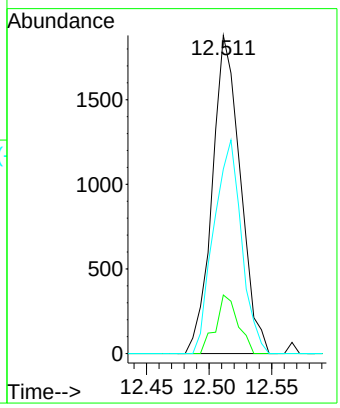





#75
1,1,2,2-Tetrachloroethane
Concen: 4.847 ug/l
RT: 12.511 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 83 Resp: 2932

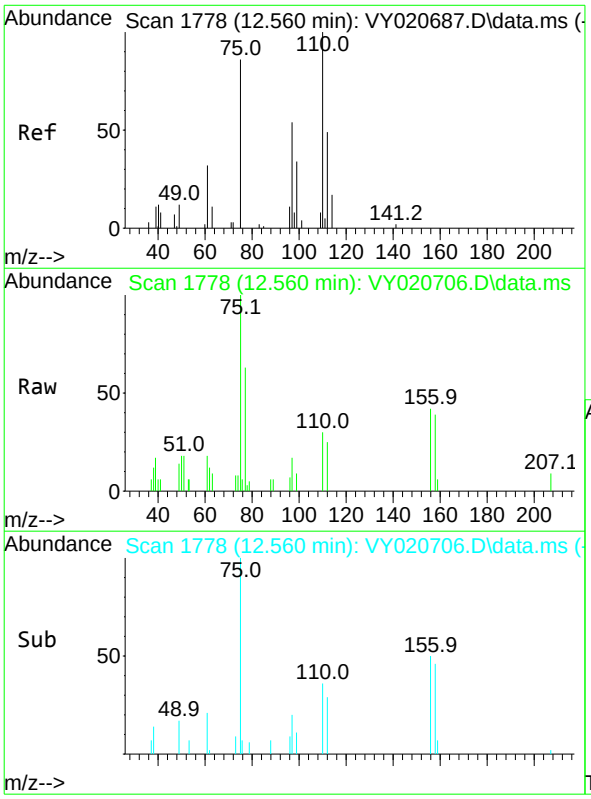
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.5 | 6.9 | 20.7 |
| 85 | 66.4 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

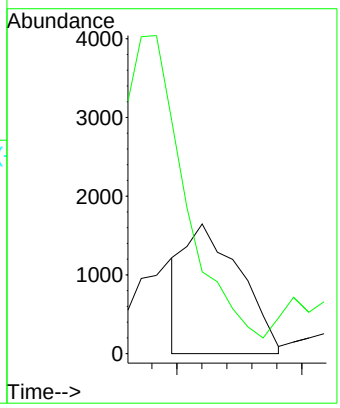
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

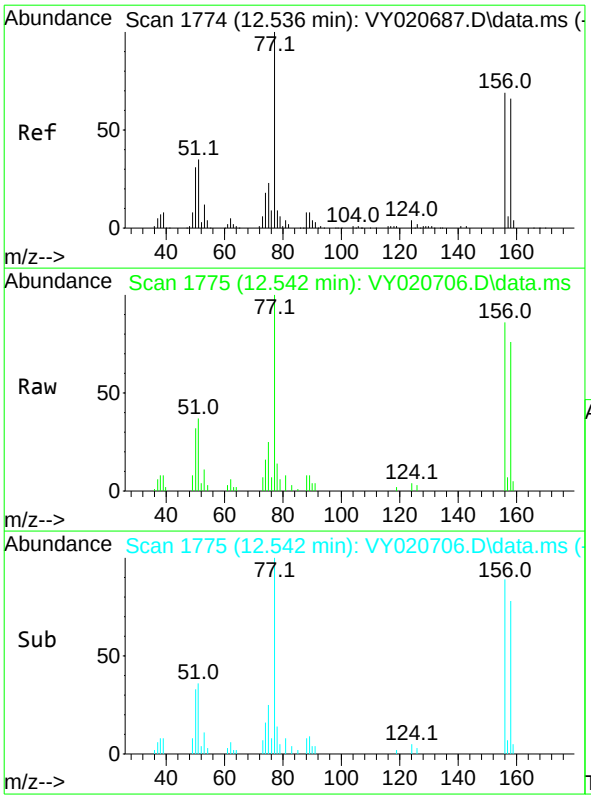



#76
1,2,3-Trichloropropane
Concen: 5.265 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 75 Resp: 2559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 303.8 | 0.0 | 0.0# |

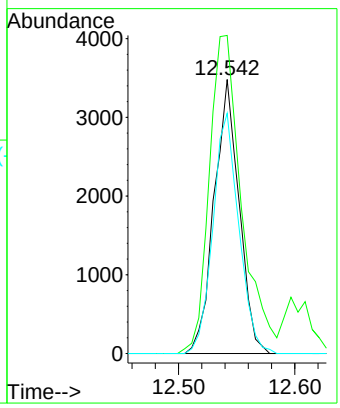





#77
Bromobenzene
Concen: 4.775 ug/l
RT: 12.542 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:156 Resp: 5187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 149.9 | 78.3 | 235.0 |
| 158 | 91.1 | 48.3 | 144.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

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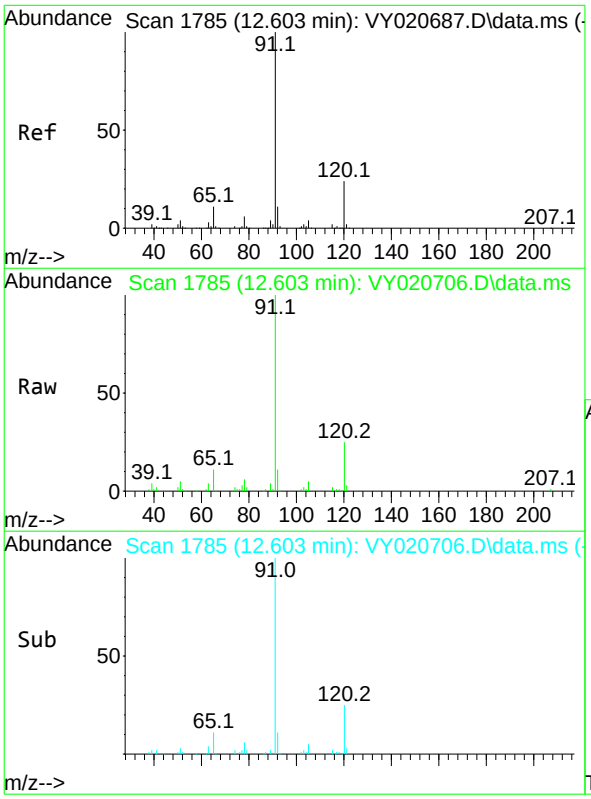
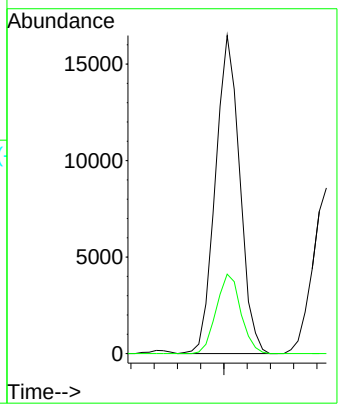
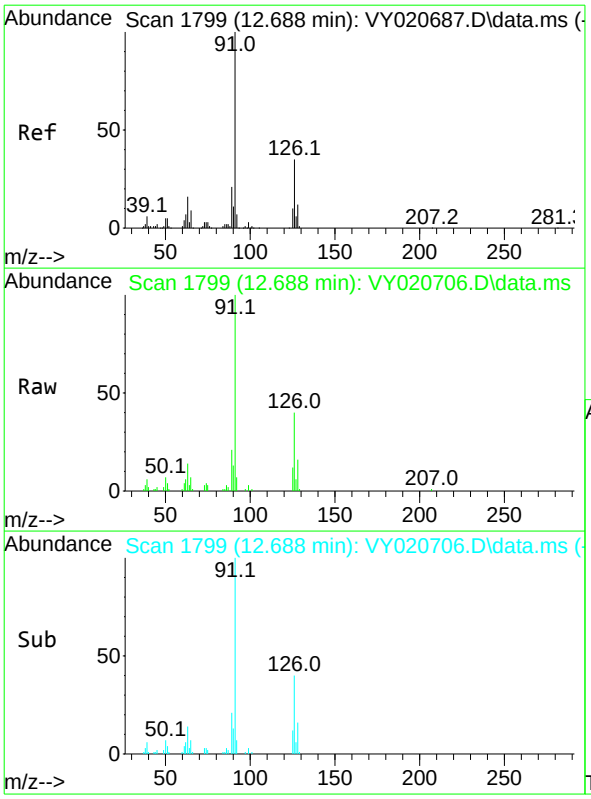



#78
n-propylbenzene
Concen: 4.534 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 91 Resp: 23980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 25.1 | 12.3 | 36.8 |

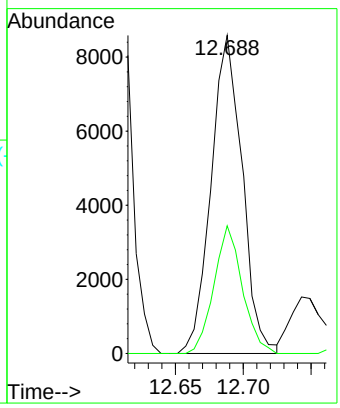





#79
2-Chlorotoluene
Concen: 4.540 ug/l
RT: 12.688 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 91 Resp: 13687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.6 | 17.8 | 53.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

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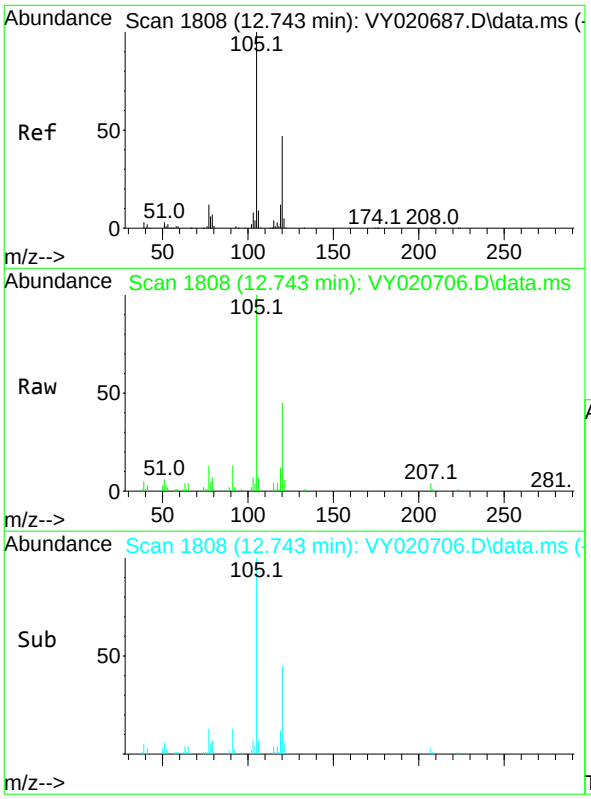
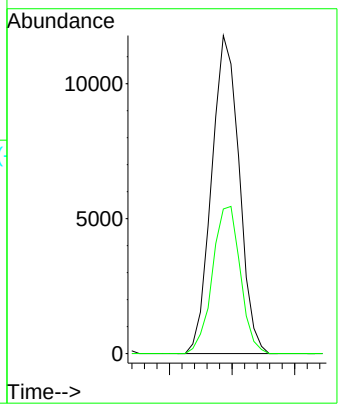
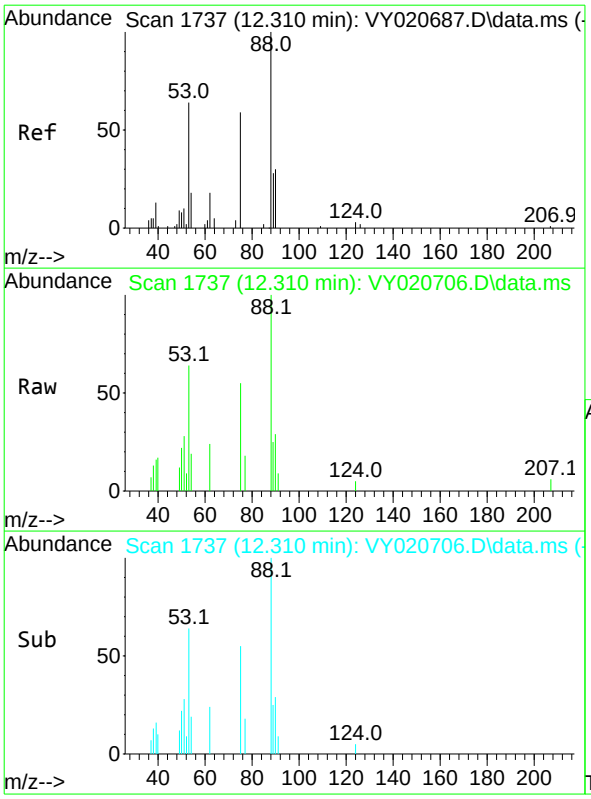



#80
1,3,5-Trimethylbenzene
Concen: 4.582 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:105 Resp: 18014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.7 | 23.9 | 71.7 |

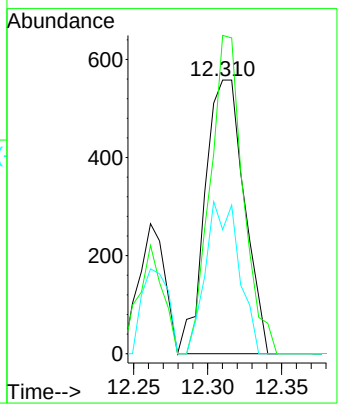





#81
trans-1,4-Dichloro-2-butene
Concen: 4.700 ug/l
RT: 12.310 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 75 Resp: 1030

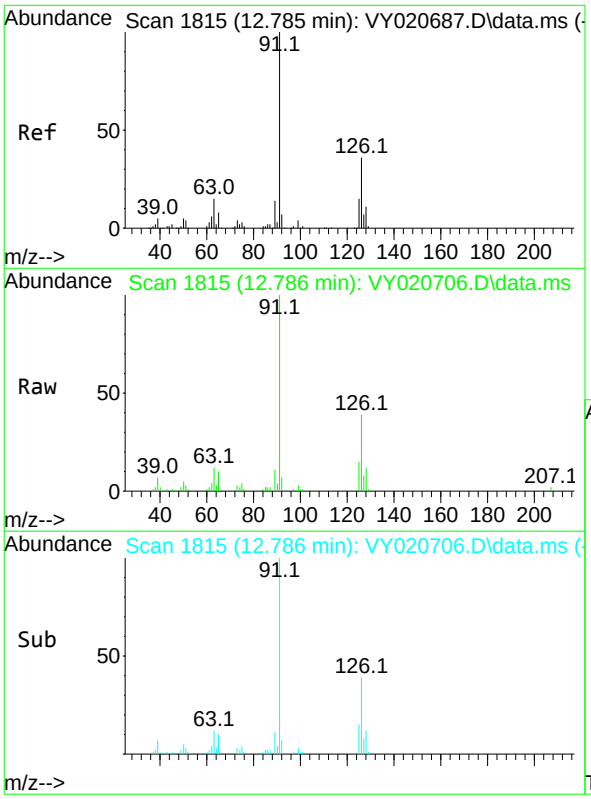
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 97.4 | 83.1 | 124.7 |
| 89 | 47.2 | 40.6 | 61.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

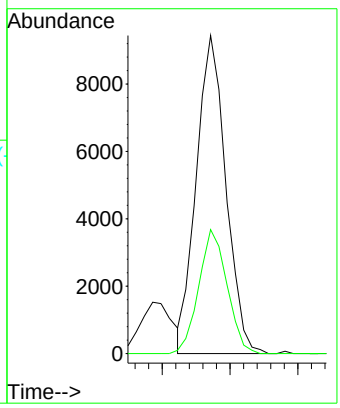
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

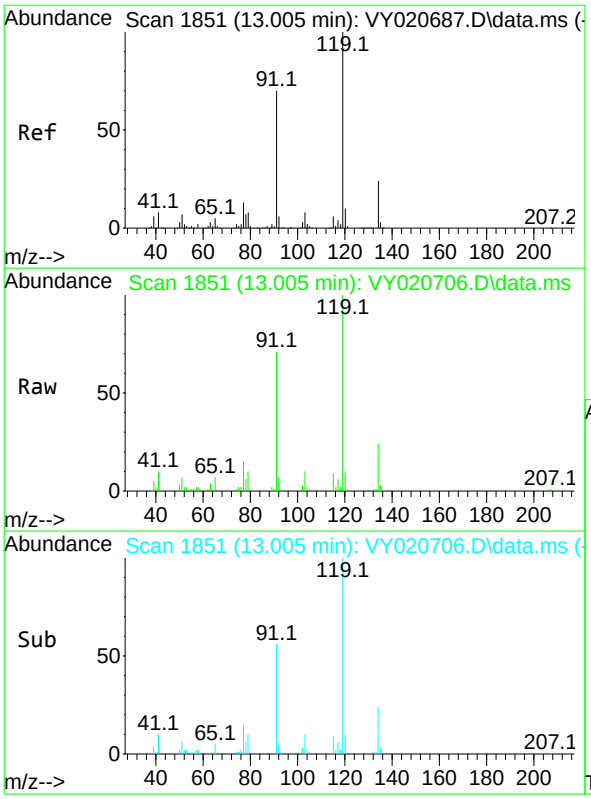



#82
4-Chlorotoluene
Concen: 4.588 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 91 Resp: 14294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.3 | 17.8 | 53.5 |

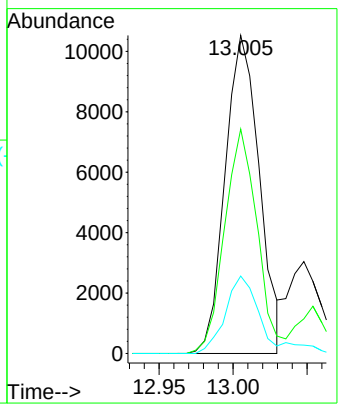





#83
tert-Butylbenzene
Concen: 4.613 ug/l
RT: 13.005 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:119 Resp: 16938

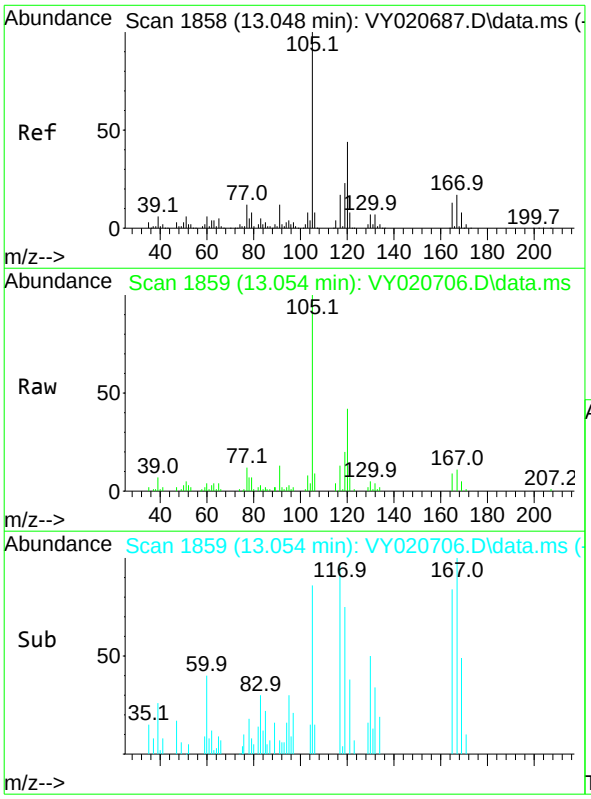
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.4 | 33.6 | 100.8 |
| 134 | 25.6 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

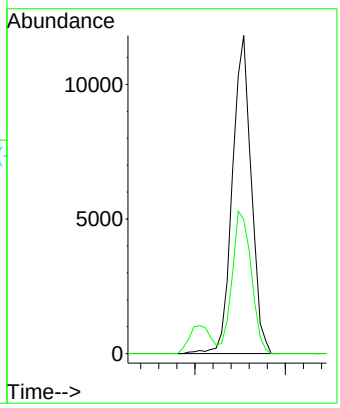
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

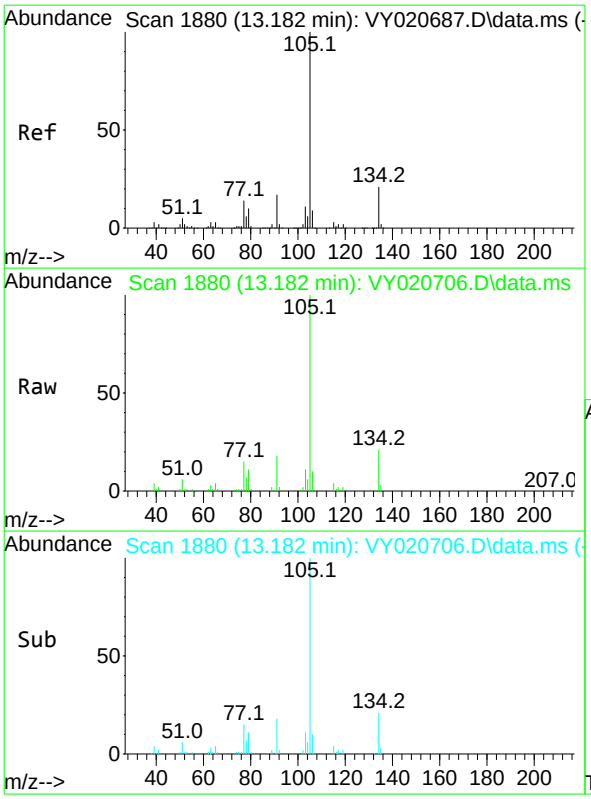



#84
1,2,4-Trimethylbenzene
Concen: 4.473 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:105 Resp: 17114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.7 | 21.8 | 65.3 |

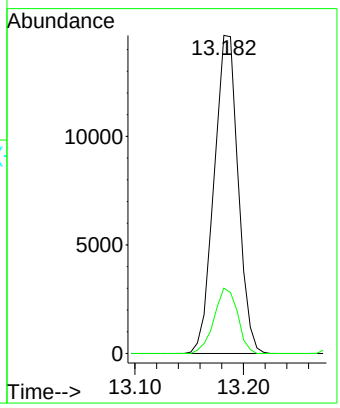





#85
sec-Butylbenzene
Concen: 4.564 ug/l
RT: 13.182 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:105 Resp: 22583

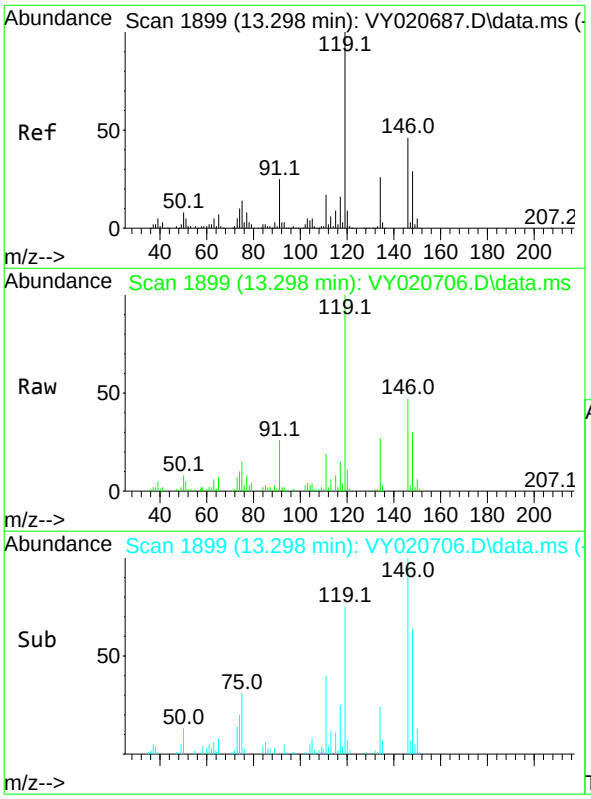
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.1 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

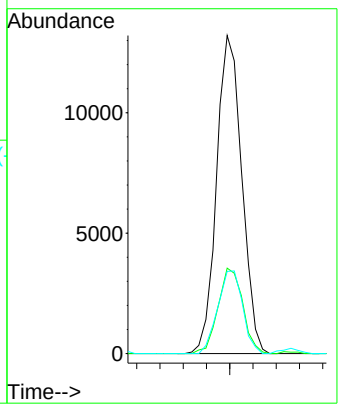
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

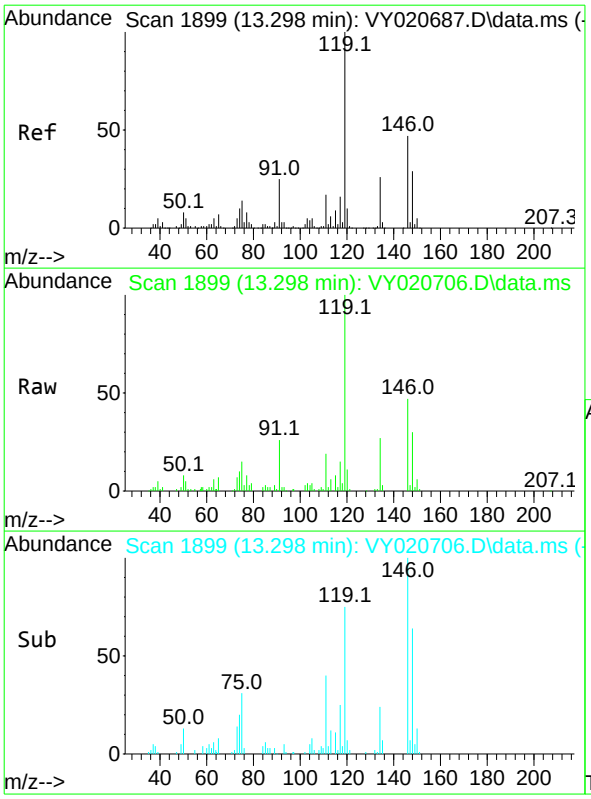



#86
p-Isopropyltoluene
Concen: 4.513 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:119 Resp: 19901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 13.4 | 40.2 |
| 91 | 25.6 | 12.9 | 38.6 |

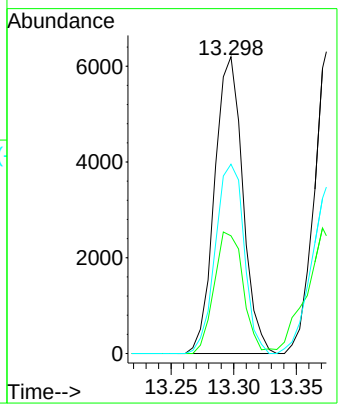





#87
1,3-Dichlorobenzene
Concen: 4.582 ug/l
RT: 13.298 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:146 Resp: 9727

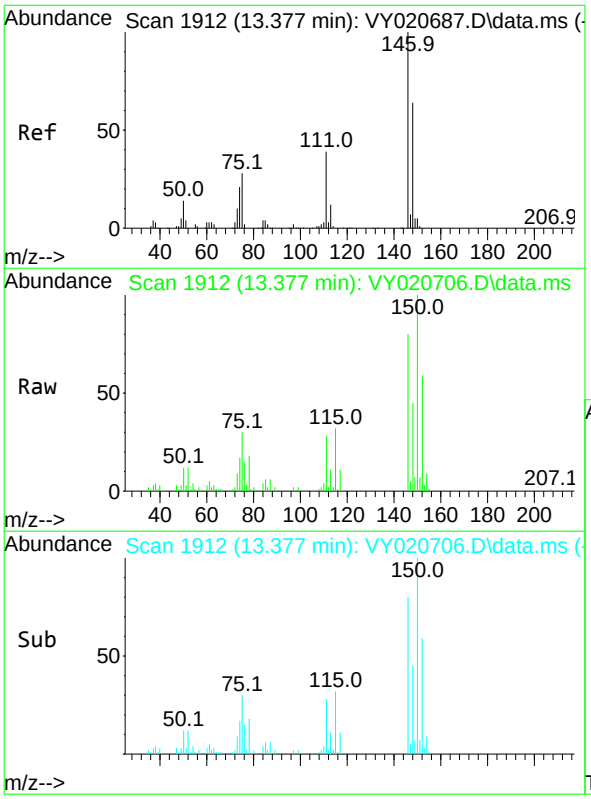
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.4 | 19.3 | 57.8 |
| 148 | 64.9 | 31.1 | 93.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

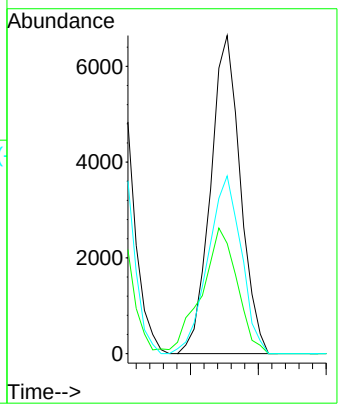
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

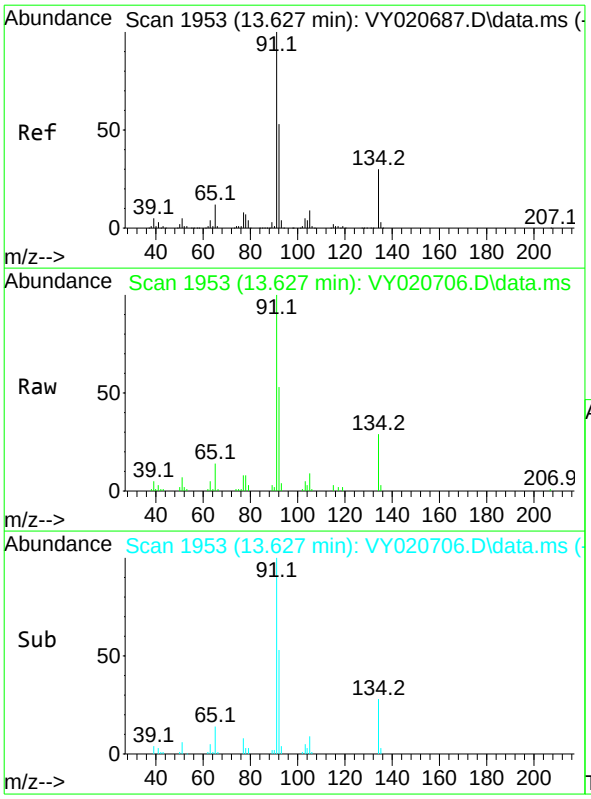



#88
1,4-Dichlorobenzene
Concen: 4.811 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:146 Resp: 10161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.8 | 19.7 | 59.0 |
| 148 | 62.3 | 32.8 | 98.3 |

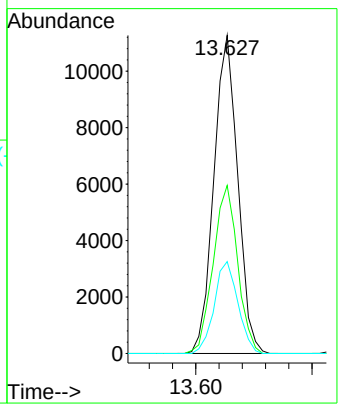





#89
n-Butylbenzene
Concen: 4.359 ug/l
RT: 13.627 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 91 Resp: 16045

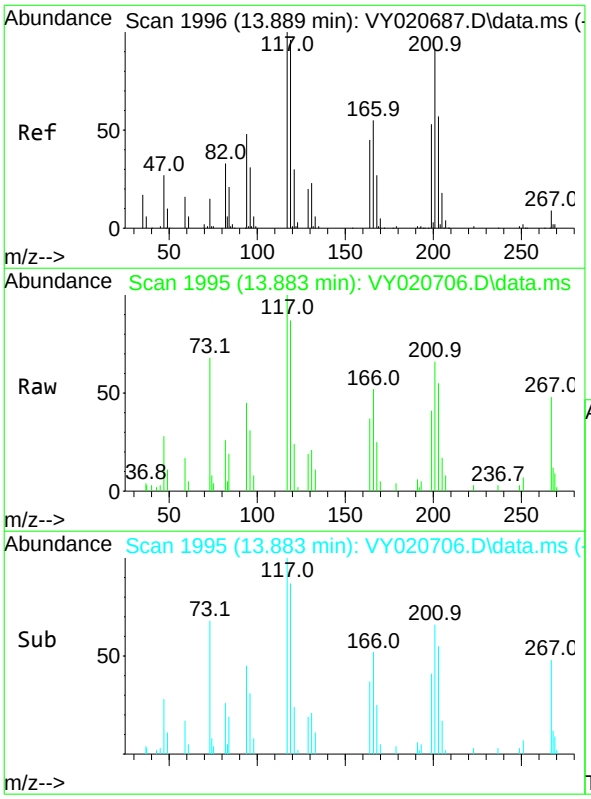
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.1 | 26.1 | 78.2 |
| 134 | 28.7 | 14.8 | 44.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

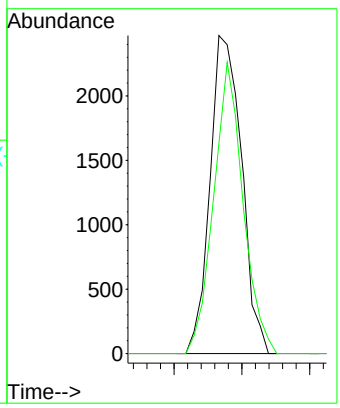
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

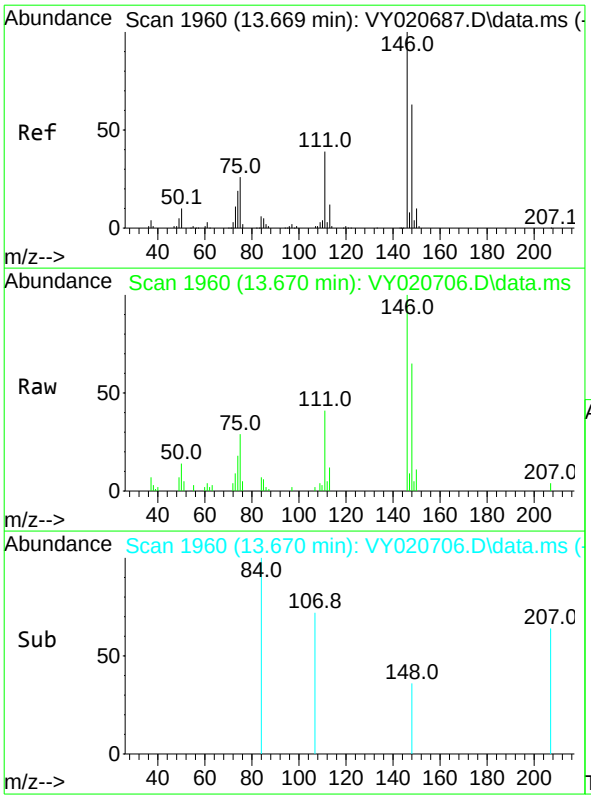



#90
Hexachloroethane
Concen: 4.760 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:117 Resp: 3991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 85.4 | 44.9 | 134.7 |

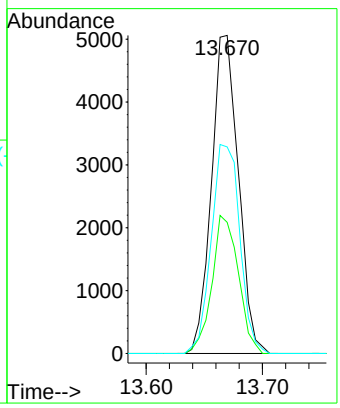





#91
1,2-Dichlorobenzene
Concen: 4.480 ug/l
RT: 13.670 min Scan# 19
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:146 Resp: 8154

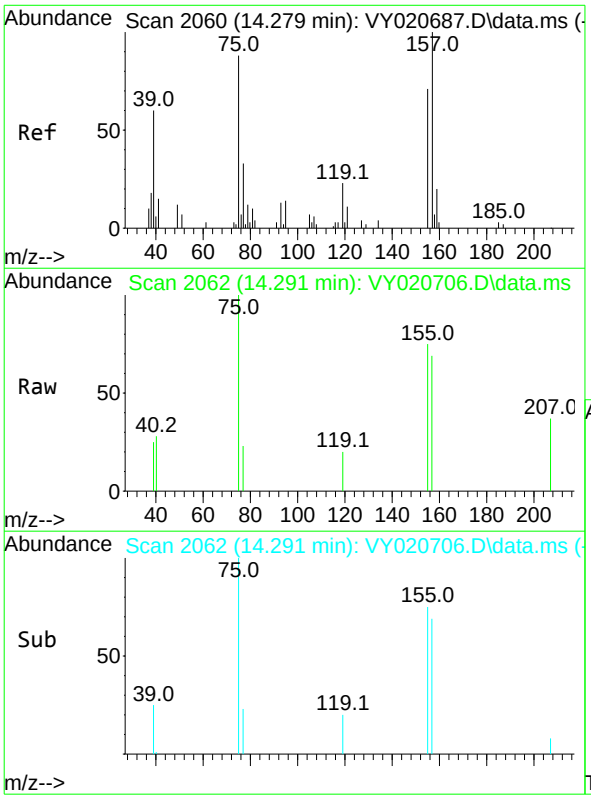
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.5 | 20.3 | 60.8 |
| 148 | 69.5 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

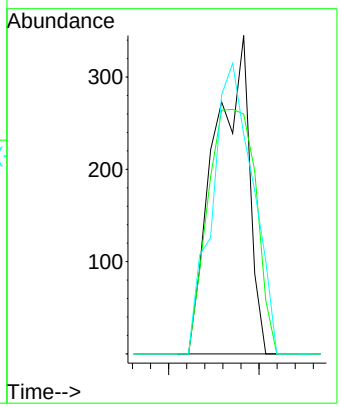
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

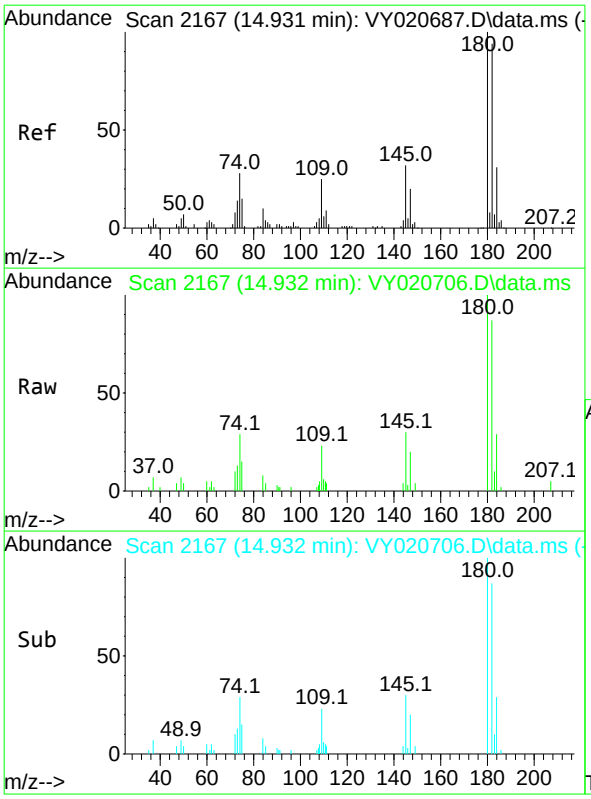



#92
1,2-Dibromo-3-Chloropropane
Concen: 3.921 ug/l
RT: 14.291 min Scan# 2062
Delta R.T. 0.012 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 75 Resp: 460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 105.7 | 43.4 | 130.2 |
| 157 | 107.0 | 58.6 | 175.7 |

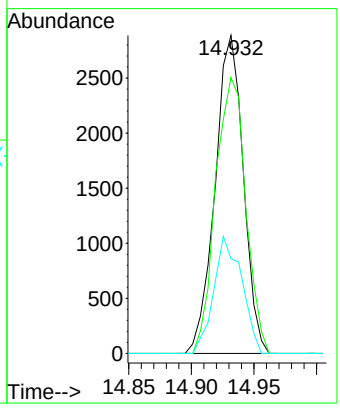





#93
1,2,4-Trichlorobenzene
Concen: 3.920 ug/l
RT: 14.932 min Scan# 21
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:180 Resp: 4536

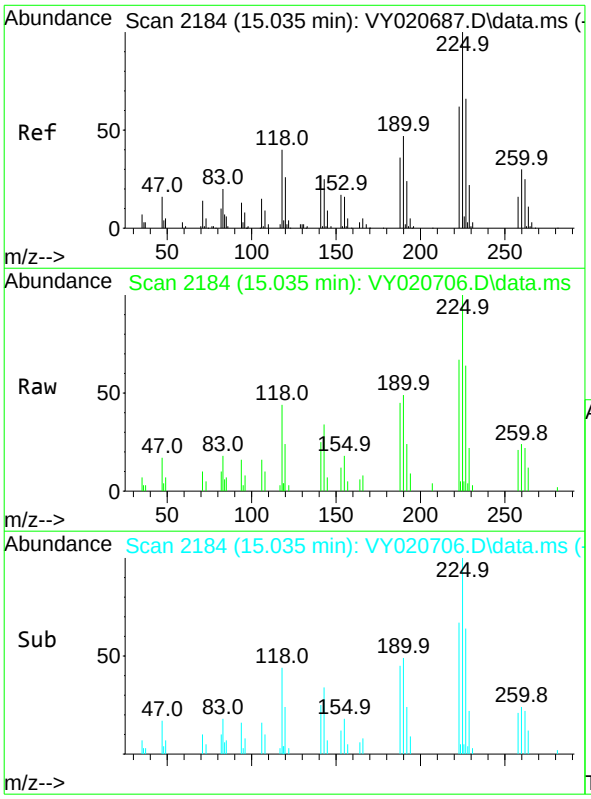
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.5 | 47.9 | 143.7 |
| 145 | 36.4 | 15.6 | 46.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

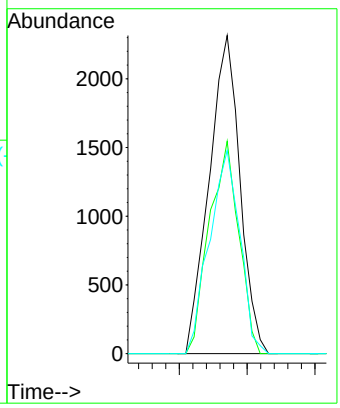
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

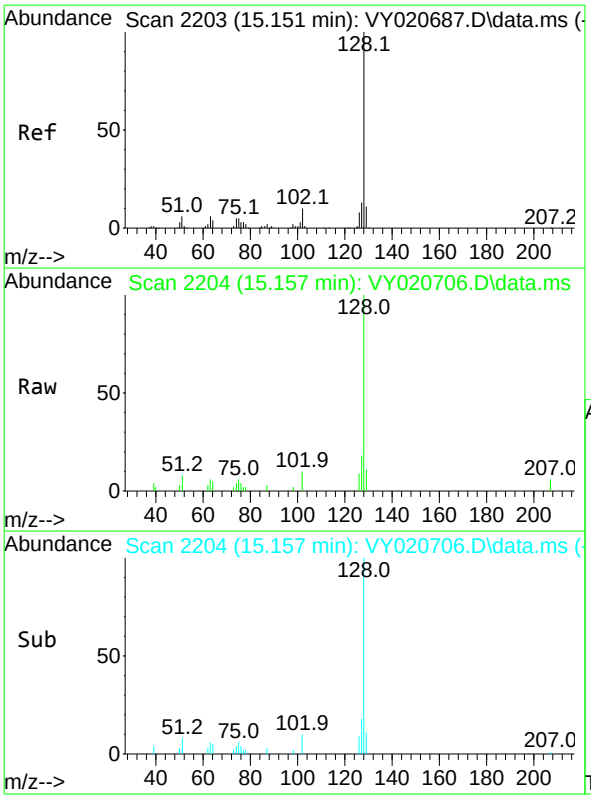



#94
Hexachlorobutadiene
Concen: 4.345 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:225 Resp: 3664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 31.3 | 93.8 |
| 227 | 63.0 | 32.1 | 96.5 |

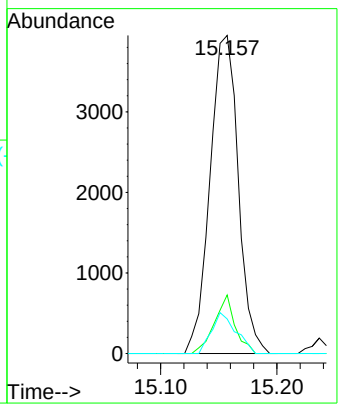





#95
Naphthalene
Concen: 3.599 ug/l
RT: 15.157 min Scan# 22
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:128 Resp: 6669

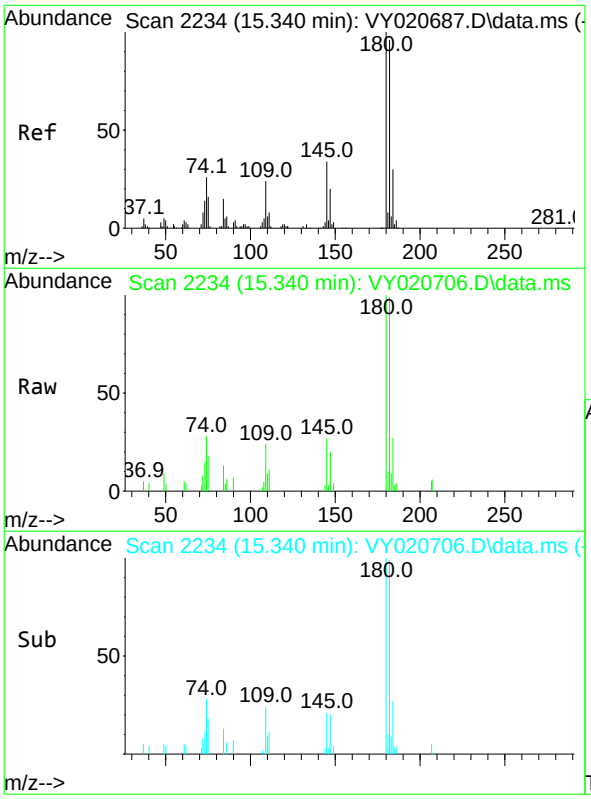
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.7 | 16.1 |
| 129 | 11.1 | 8.6 | 12.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

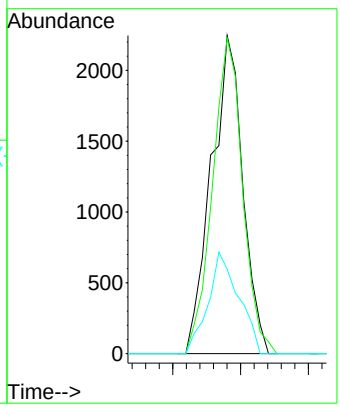
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024




#96
1,2,3-Trichlorobenzene
Concen: 3.753 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:180 Resp: 3615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 47.4 | 142.2 |
| 145 | 31.0 | 16.7 | 50.1 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020707.D
Acq On : 26 Dec 2024 09:53
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:05:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 113806 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.621 | 114 | 160513 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 134187 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 67536 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 9148 | 9.814 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 19.620%# | | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 8811 | 9.966 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 19.940%# | | | | |
| 50) Toluene-d8 | 10.115 | 98 | 28333 | 9.506 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 19.020%# | | | | |
| 62) 4-Bromofluorobenzene | 12.413 | 95 | 12144 | 10.336 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 20.680%# | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 10304 | 11.503 | ug/l | | 90 |
| 3) Chloromethane | 2.080 | 50 | 3515 | 10.521 | ug/l | | 97 |
| 4) Vinyl Chloride | 2.214 | 62 | 4449 | 10.748 | ug/l | | 97 |
| 5) Bromomethane | 2.610 | 94 | 3397 | 10.870 | ug/l | | 93 |
| 6) Chloroethane | 2.751 | 64 | 2641 | 10.636 | ug/l | | 90 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 17447 | 10.961 | ug/l | | 95 |
| 8) Diethyl Ether | 3.464 | 74 | 3903 | 10.304 | ug/l | | 93 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 9745 | 11.152 | ug/l | | 99 |
| 10) Methyl Iodide | 4.019 | 142 | 9549 | 9.993 | ug/l | | 100 |
| 11) Tert butyl alcohol | 4.872 | 59 | 3641 | 45.628 | ug/l | | 99 |
| 12) 1,1-Dichloroethene | 3.811 | 96 | 8169 | 10.503 | ug/l | | 90 |
| 13) Acrolein | 3.677 | 56 | 1325 | 67.996 | ug/l | | 90 |
| 14) Allyl chloride | 4.403 | 41 | 9677 | 10.632 | ug/l | | 94 |
| 15) Acrylonitrile | 5.079 | 53 | 7720 | 52.760 | ug/l | | 94 |
| 16) Acetone | 3.891 | 43 | 7777 | 65.764 | ug/l | | 90 |
| 17) Carbon Disulfide | 4.122 | 76 | 19437 | 10.187 | ug/l | | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 3518 | 10.992 | ug/l | | 95 |
| 19) Methyl tert-butyl Ether | 5.134 | 73 | 22860 | 10.545 | ug/l | | 97 |
| 20) Methylene Chloride | 4.640 | 84 | 8316 | 10.812 | ug/l | # | 88 |
| 21) trans-1,2-Dichloroethene | 5.134 | 96 | 8600 | 10.261 | ug/l | | 98 |
| 22) Diisopropyl ether | 6.030 | 45 | 20110 | 10.869 | ug/l | | 93 |
| 23) Vinyl Acetate | 5.976 | 43 | 56669 | 51.276 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 5.939 | 63 | 15035 | 10.838 | ug/l | # | 95 |
| 25) 2-Butanone | 6.914 | 43 | 7858 | 49.191 | ug/l | | 93 |
| 26) 2,2-Dichloropropane | 6.902 | 77 | 18453 | 10.868 | ug/l | | 96 |
| 27) cis-1,2-Dichloroethene | 6.908 | 96 | 10464 | 10.425 | ug/l | | 98 |
| 28) Bromochloromethane | 7.262 | 49 | 3437 | 9.369 | ug/l | # | 92 |
| 29) Tetrahydrofuran | 7.274 | 42 | 5125 | 52.267 | ug/l | | 99 |
| 30) Chloroform | 7.433 | 83 | 18692 | 10.474 | ug/l | | 88 |
| 31) Cyclohexane | 7.719 | 56 | 13258 | 11.072 | ug/l | # | 92 |
| 32) 1,1,1-Trichloroethane | 7.634 | 97 | 20406 | 10.668 | ug/l | | 98 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 12601 | 10.790 | ug/l | | 98 |
| 37) Ethyl Acetate | 6.994 | 43 | 3547 | 9.217 | ug/l | | 100 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 20683 | 10.755 | ug/l | | 94 |
| 39) Methylcyclohexane | 9.115 | 83 | 15497 | 10.353 | ug/l | | 95 |
| 40) Benzene | 8.091 | 78 | 35447 | 10.473 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020707.D
Acq On : 26 Dec 2024 09:53
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:05:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.238 | 41 | 1876 | 9.650 | ug/l | # | 68 |
| 42) 1,2-Dichloroethane | 8.170 | 62 | 11313 | 10.424 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 7905 | 9.664 | ug/l | # | 87 |
| 44) Trichloroethene | 8.878 | 130 | 10790 | 10.673 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 7377 | 10.767 | ug/l | | 91 |
| 46) Dibromomethane | 9.237 | 93 | 4900 | 10.336 | ug/l | | 94 |
| 47) Bromodichloromethane | 9.432 | 83 | 14245 | 10.599 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.231 | 41 | 3827 | 10.018 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.243 | 88 | 924 | 204.624 | ug/l | | 90 |
| 51) 4-Methyl-2-Pentanone | 10.005 | 43 | 19722 | 49.951 | ug/l | | 99 |
| 52) Toluene | 10.176 | 92 | 24111 | 10.393 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 11736 | 9.942 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 13095 | 10.121 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.578 | 97 | 5992 | 9.902 | ug/l | | 94 |
| 56) Ethyl methacrylate | 10.444 | 69 | 7986 | 10.046 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 9956 | 10.137 | ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 12740 | 45.957 | ug/l | | 97 |
| 59) 2-Hexanone | 10.767 | 43 | 12416 | 47.628 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.920 | 129 | 10320 | 10.554 | ug/l | | 96 |
| 61) 1,2-Dibromoethane | 11.023 | 107 | 5732 | 10.067 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.658 | 164 | 9654 | 10.530 | ug/l | | 93 |
| 65) Chlorobenzene | 11.450 | 112 | 28012 | 10.661 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.523 | 131 | 10891 | 10.699 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.529 | 91 | 48565 | 10.575 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.639 | 106 | 37110 | 21.184 | ug/l | | 99 |
| 69) o-Xylene | 11.962 | 106 | 17878 | 10.682 | ug/l | | 99 |
| 70) Styrene | 11.975 | 104 | 28883 | 10.280 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 6103 | 10.428 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 51343 | 10.973 | ug/l | | 99 |
| 74) N-amyl acetate | 12.078 | 43 | 6525 | 9.813 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 5918 | 9.866 | ug/l | | 94 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 3057m | 5.738 | ug/l | | |
| 77) Bromobenzene | 12.541 | 156 | 11164 | 10.365 | ug/l | | 94 |
| 78) n-propylbenzene | 12.602 | 91 | 57154 | 10.898 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 32123 | 10.745 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 41891 | 10.746 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 2060 | 9.480 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.785 | 91 | 32918 | 10.654 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 39005 | 10.714 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 39791 | 10.489 | ug/l | | 96 |
| 85) sec-Butylbenzene | 13.182 | 105 | 52410 | 10.682 | ug/l | | 97 |
| 86) p-Isopropyltoluene | 13.297 | 119 | 47106 | 10.773 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.297 | 146 | 22556 | 10.715 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 21947 | 10.480 | ug/l | | 96 |
| 89) n-Butylbenzene | 13.627 | 91 | 39091 | 10.710 | ug/l | | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 8880 | 10.680 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 18554 | 10.279 | ug/l | | 96 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 1198 | 10.298 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.931 | 180 | 11153 | 9.721 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 8808 | 10.534 | ug/l | | 98 |
| 95) Naphthalene | 15.151 | 128 | 16857 | 9.174 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 9155 | 9.584 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020707.D
Acq On : 26 Dec 2024 09:53
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:05:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

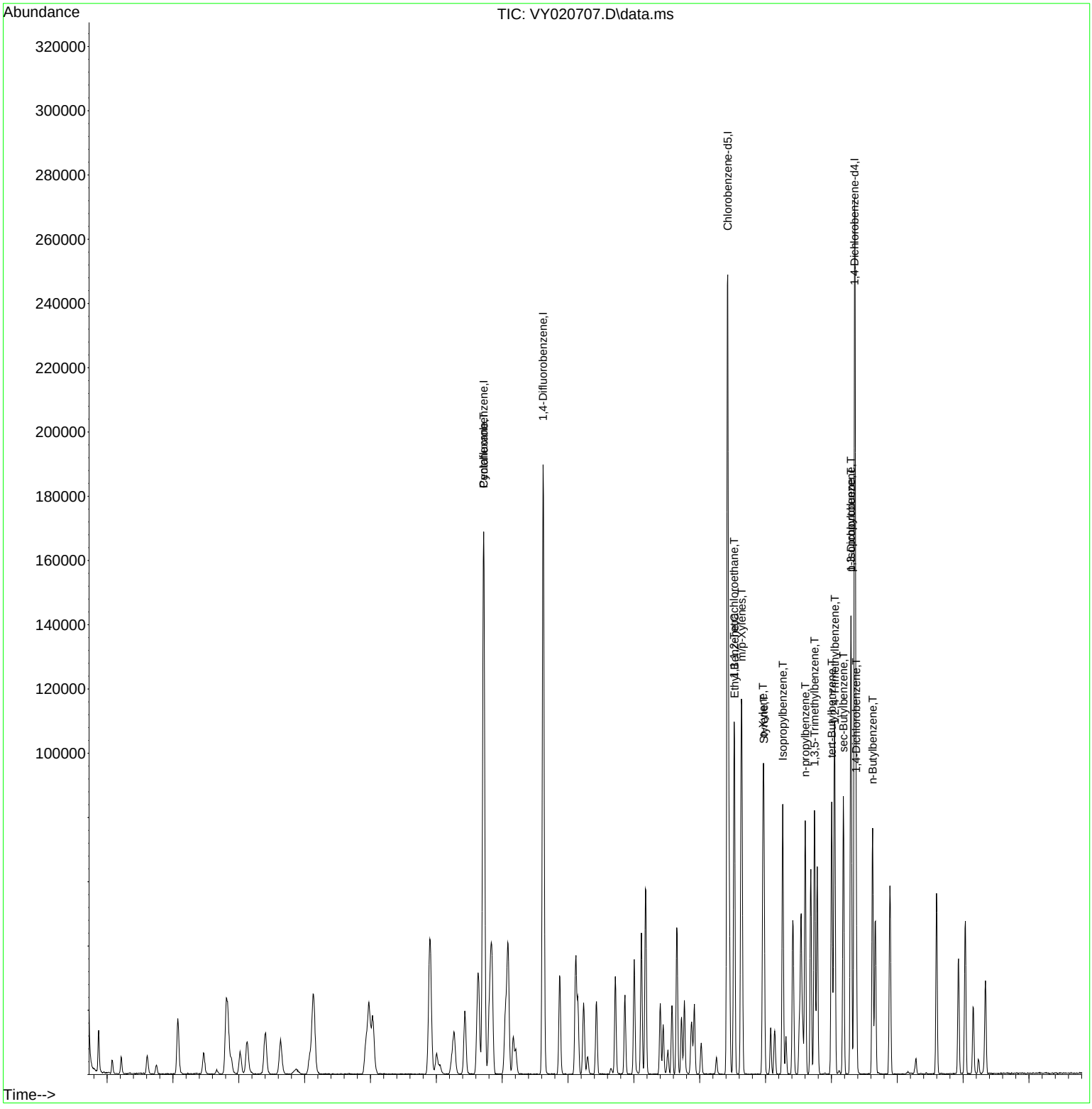
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020707.D
Acq On : 26 Dec 2024 09:53
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

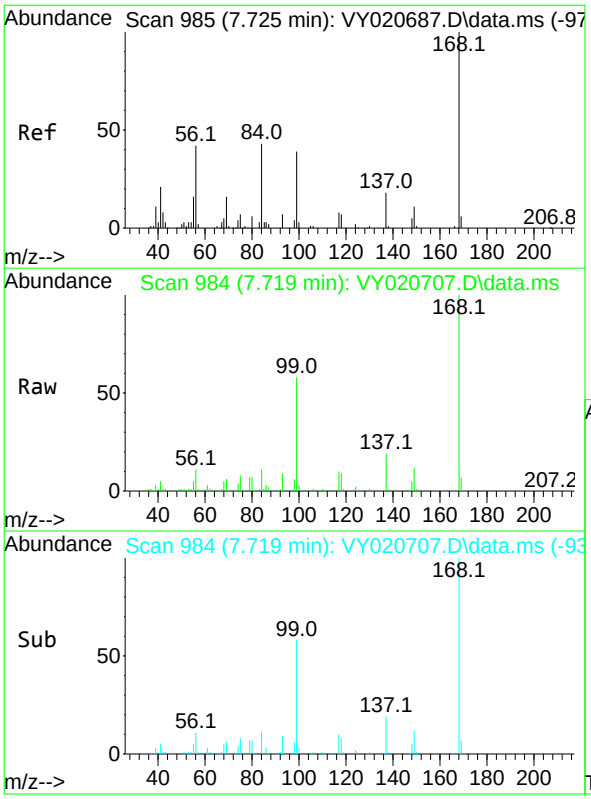
Quant Time: Dec 26 16:05:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

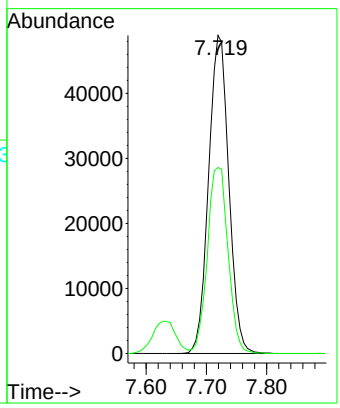





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:168 Resp: 113806

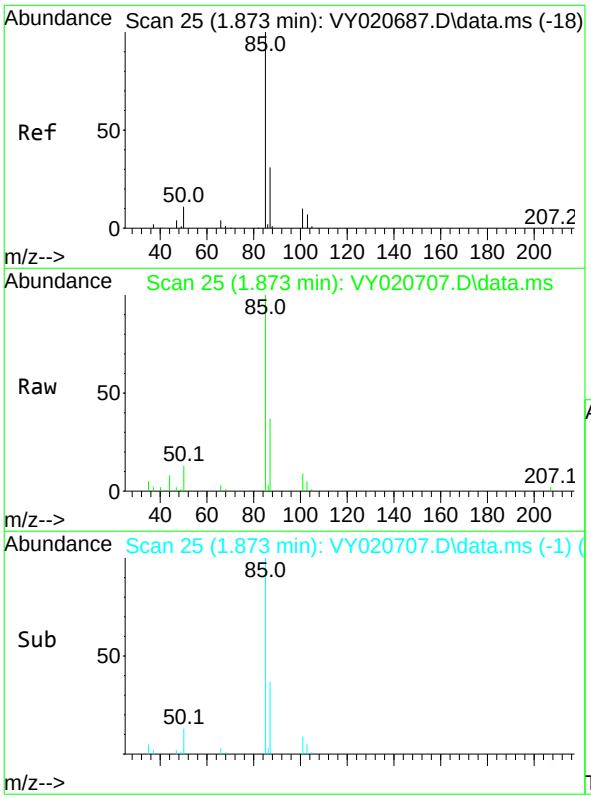
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.5 | 43.8 | 65.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

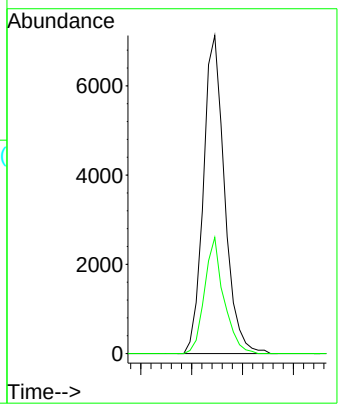
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

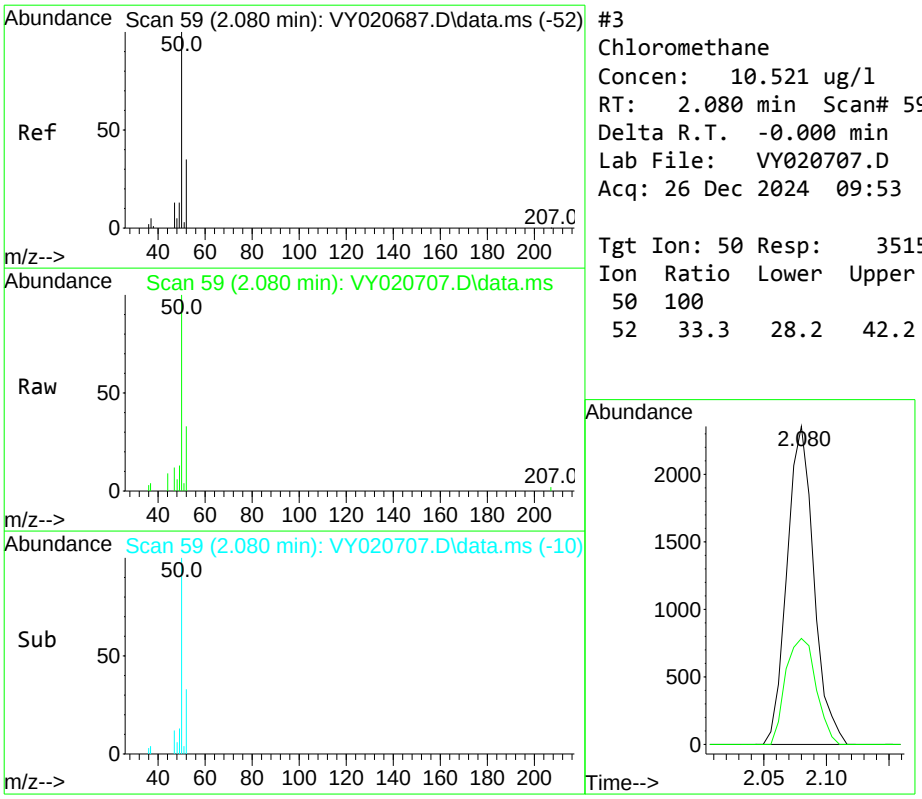



#2
Dichlorodifluoromethane
Concen: 11.503 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 85 Resp: 10304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 36.5 | 15.4 | 46.4 |






#3
Chloromethane
Concen: 10.521 ug/l
RT: 2.080 min Scan# 59
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 50 Resp: 3515

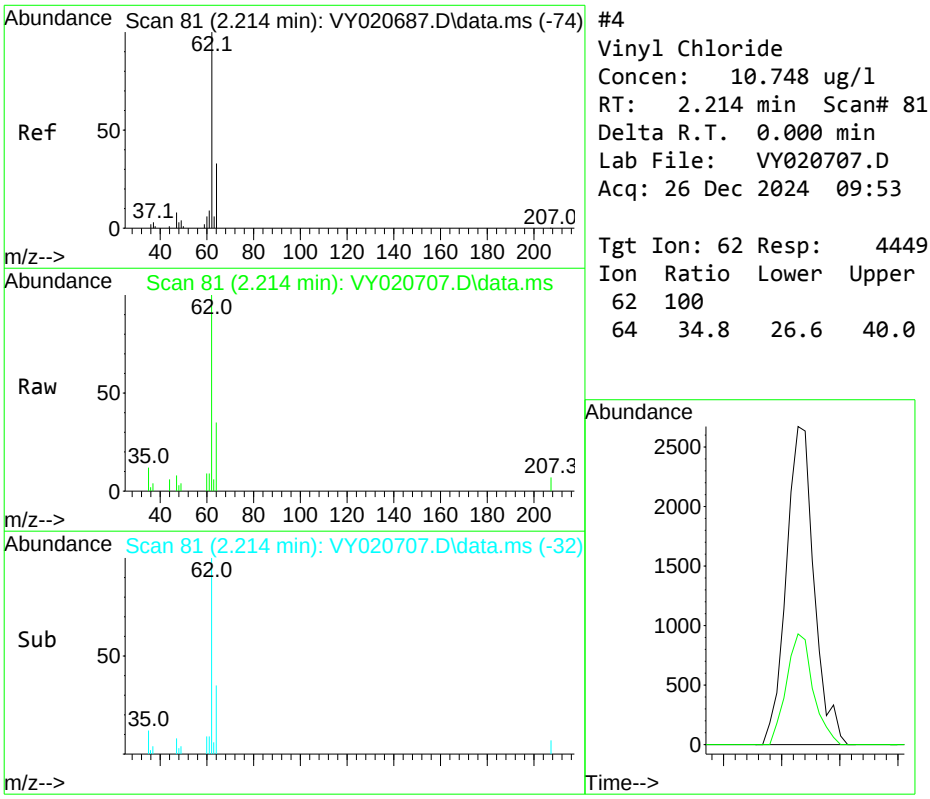
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 28.2 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

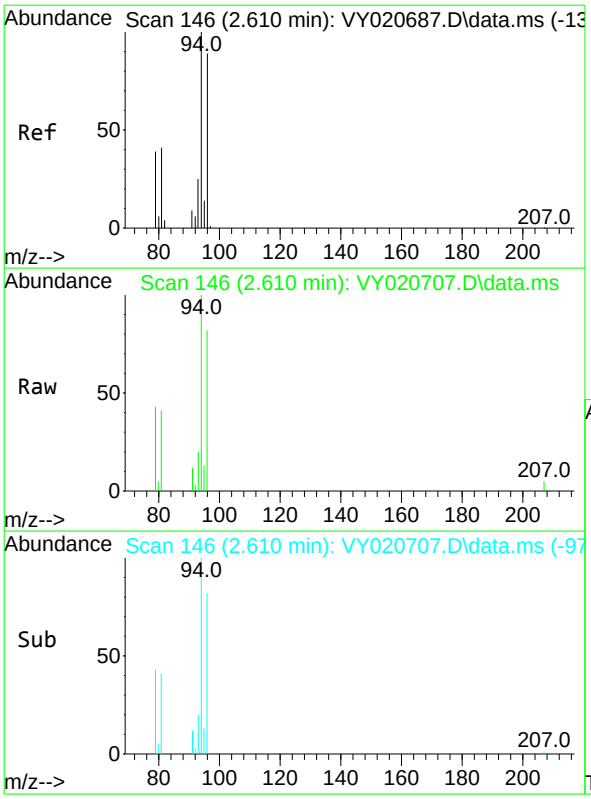
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024




#4
Vinyl Chloride
Concen: 10.748 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 62 Resp: 4449

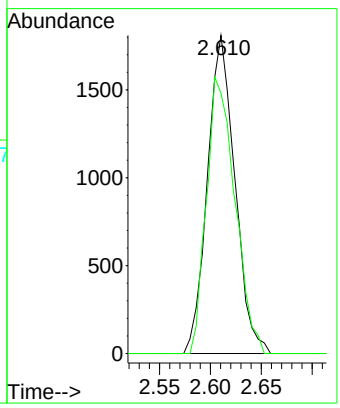
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.8 | 26.6 | 40.0 |




#5
Bromomethane
Concen: 10.870 ug/l
RT: 2.610 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 94 Resp: 3397

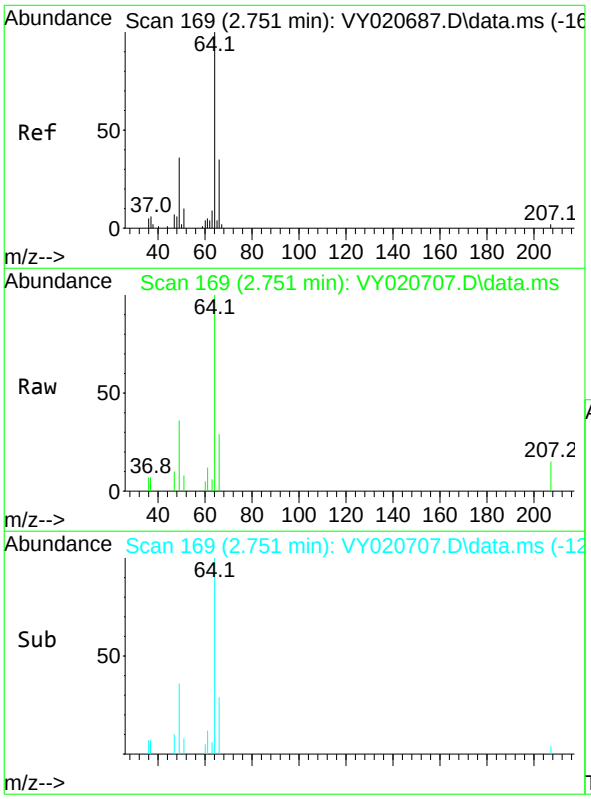
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 81.8 | 71.0 | 106.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

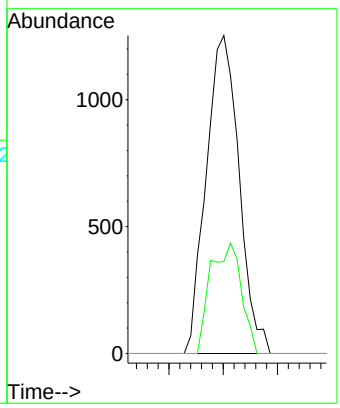
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

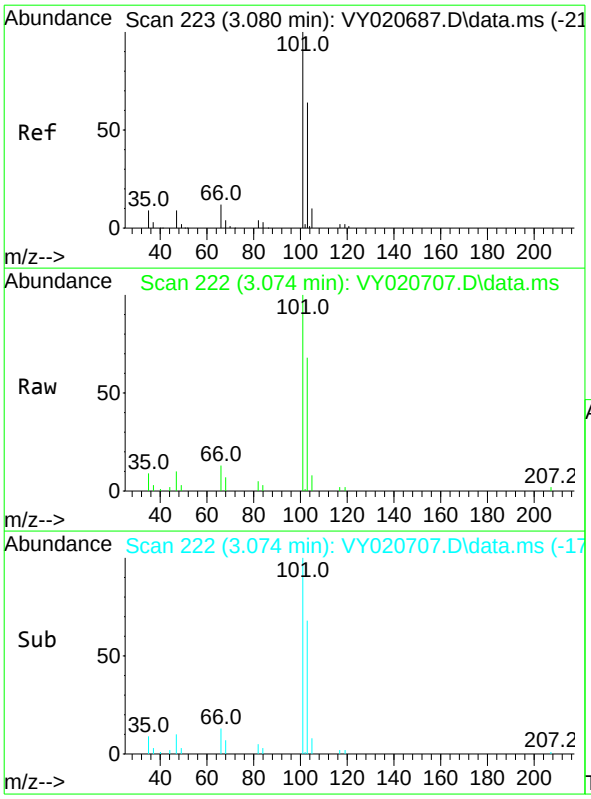



#6
Chloroethane
Concen: 10.636 ug/l
RT: 2.751 min Scan# 169
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 64 Resp: 2641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 28.9 | 27.8 | 41.8 |

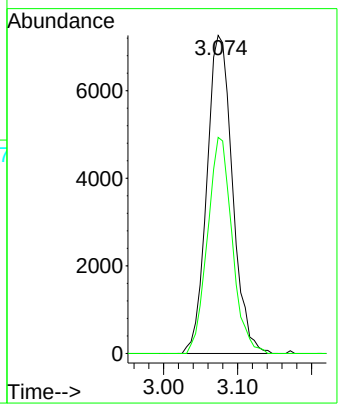





#7
Trichlorofluoromethane
Concen: 10.961 ug/l
RT: 3.074 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:101 Resp: 17447

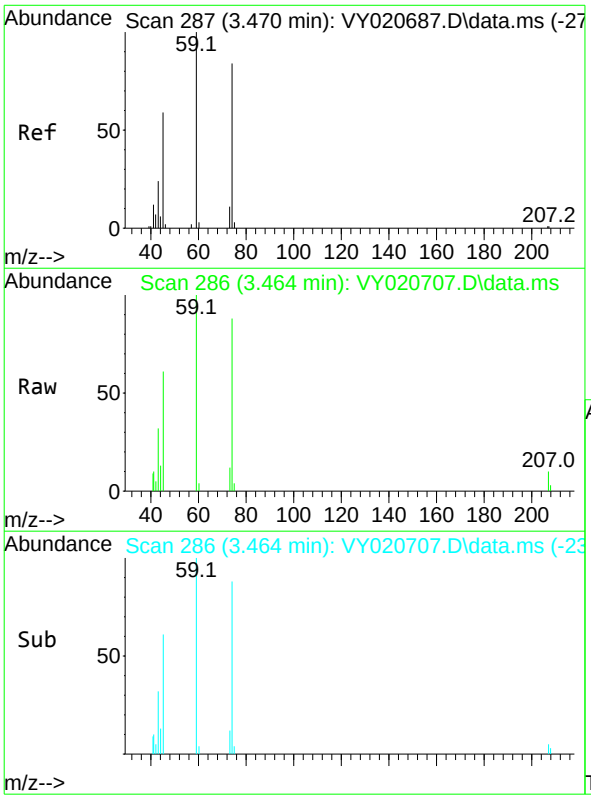
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 67.9 | 51.4 | 77.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
**APPROVED**

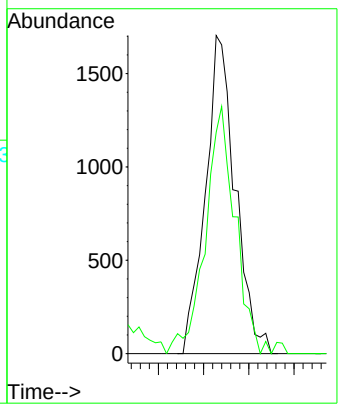
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

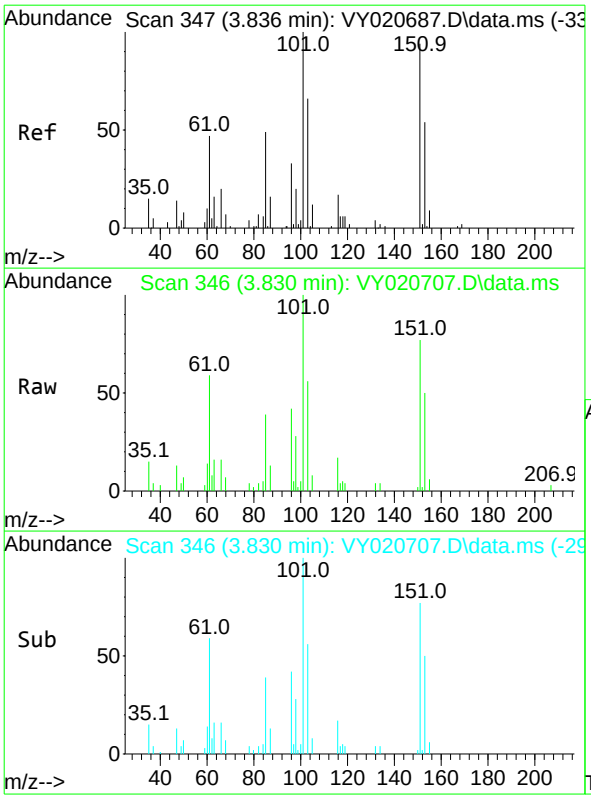



#8
Diethyl Ether
Concen: 10.304 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 74 Resp: 3903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 77.2 | 35.8 | 107.4 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 11.152 ug/l
RT: 3.830 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

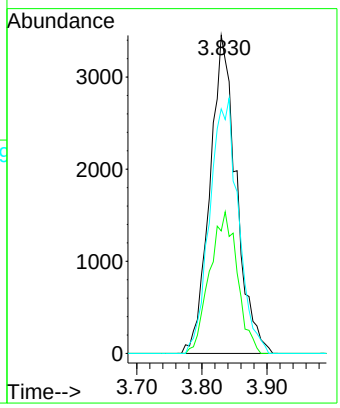
Tgt Ion:101 Resp: 9745

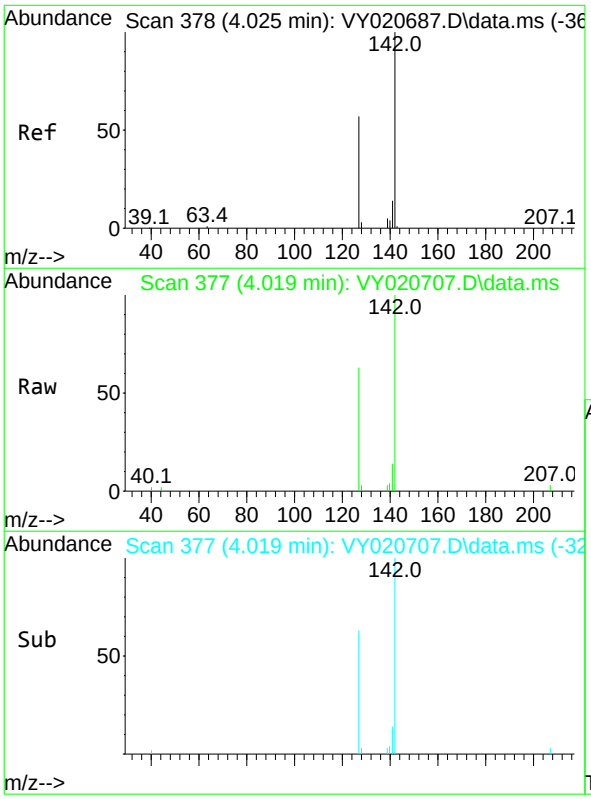
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.4 | 38.2 | 57.2 |
| 151 | 86.1 | 68.4 | 102.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

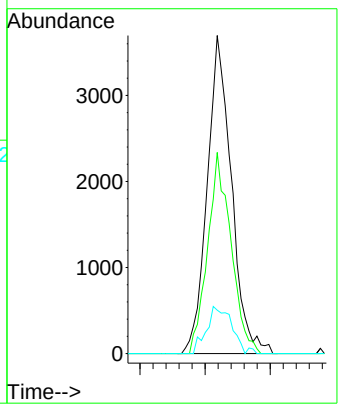


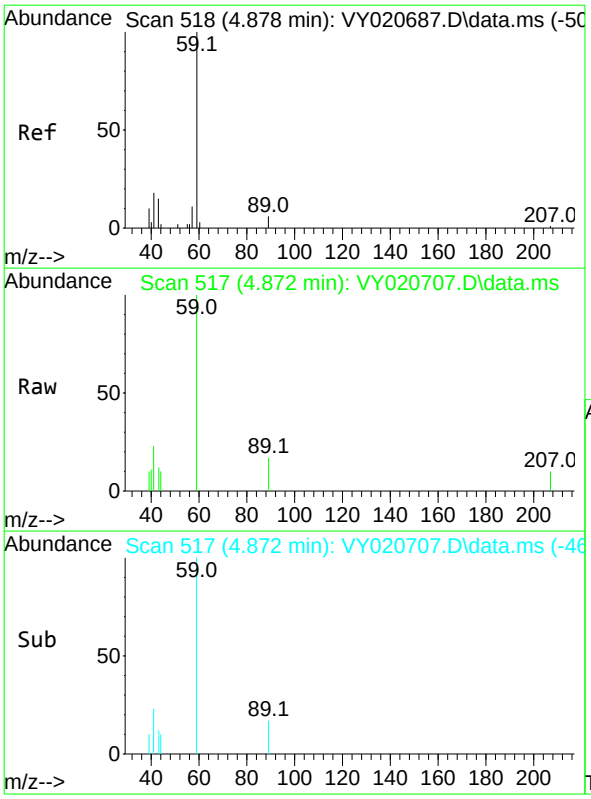




#10
Methyl Iodide
Concen: 9.993 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:142 Resp: 9549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 60.9 | 48.8 | 73.2 |
| 141 | 15.6 | 11.9 | 17.9 |

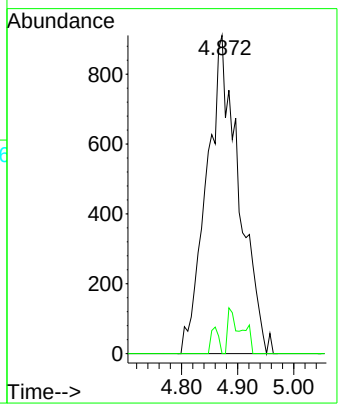





#11
Tert butyl alcohol
Concen: 45.628 ug/l
RT: 4.872 min Scan# 51
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 59 Resp: 3641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 3.8 | 2.8 | 4.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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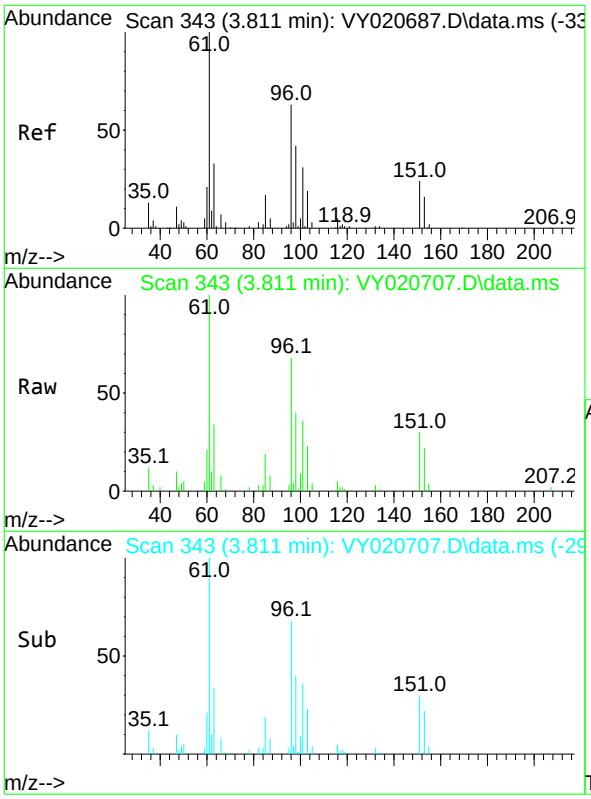
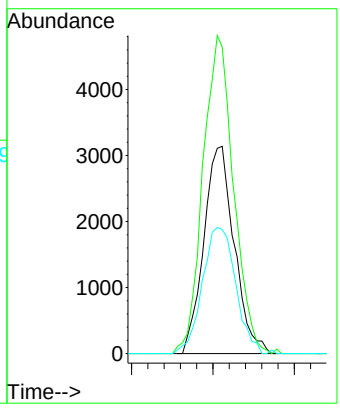
Supervised By :Semsettin Yesilyurt 12/27/2024

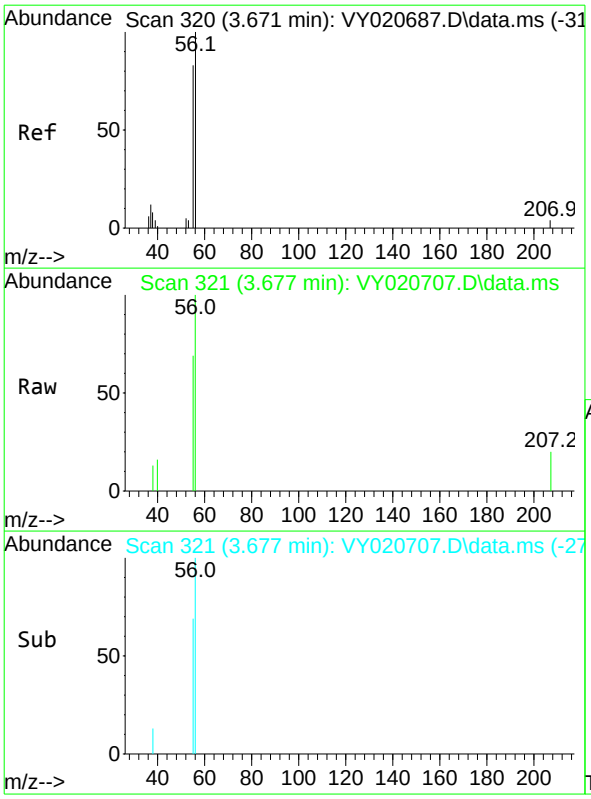



#12
1,1-Dichloroethene
Concen: 10.503 ug/l
RT: 3.811 min Scan# 343
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 96 Resp: 8169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 145.8 | 127.1 | 190.7 |
| 98 | 59.8 | 53.4 | 80.0 |

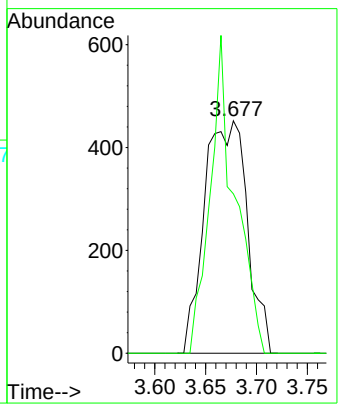





#13
Acrolein
Concen: 67.996 ug/l
RT: 3.677 min Scan# 32
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 56 Resp: 1325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 79.7 | 57.0 | 85.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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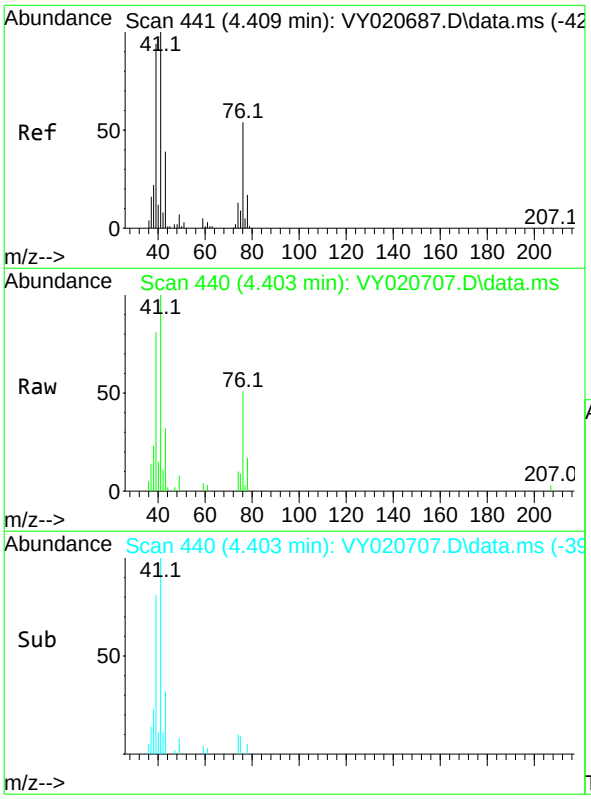
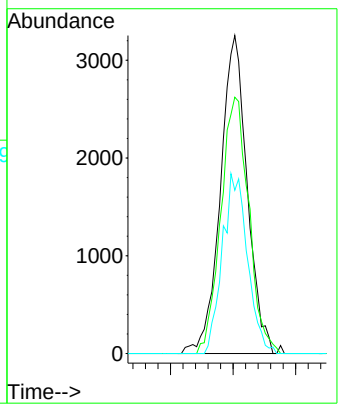
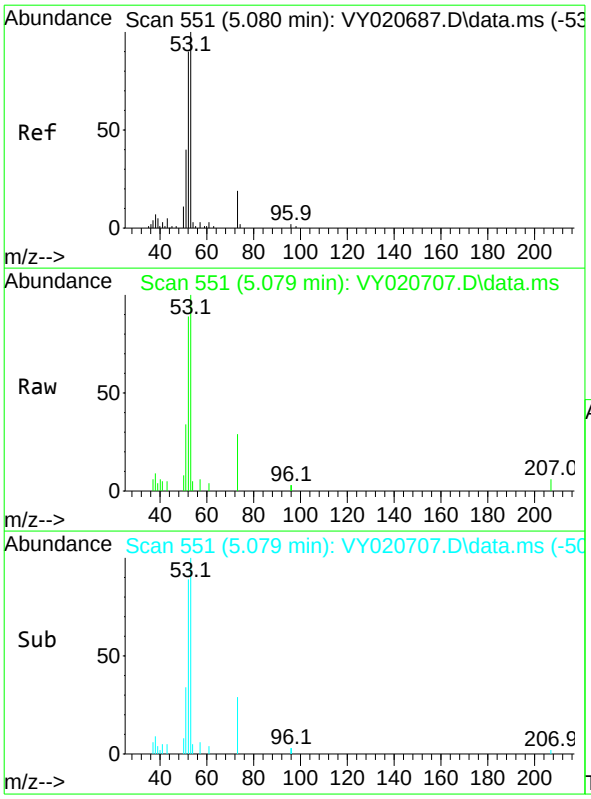



#14
Allyl chloride
Concen: 10.632 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 41 Resp: 9677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 84.1 | 73.5 | 110.3 |
| 76 | 52.9 | 41.8 | 62.8 |

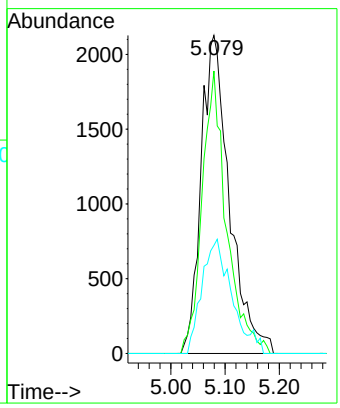





#15
Acrylonitrile
Concen: 52.760 ug/l
RT: 5.079 min Scan# 55
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 53 Resp: 7720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 76.3 | 67.1 | 100.7 |
| 51 | 38.0 | 31.4 | 47.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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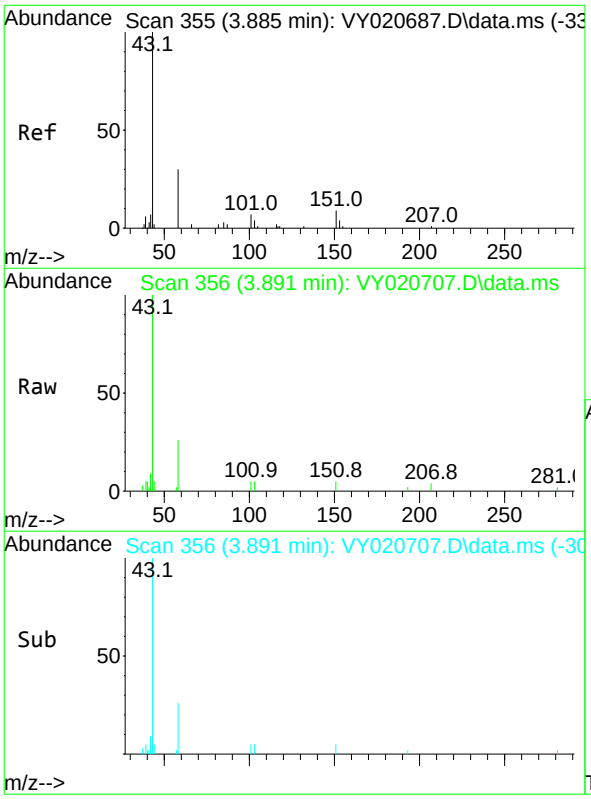
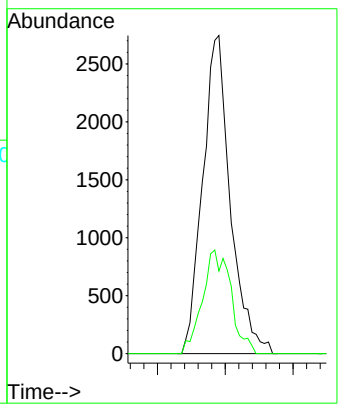
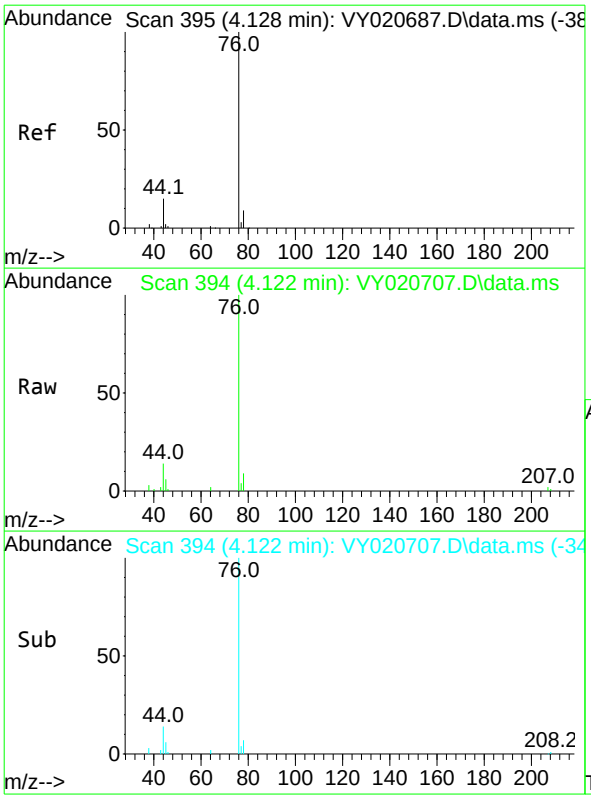



#16
Acetone
Concen: 65.764 ug/l
RT: 3.891 min Scan# 356
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 7777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.0 | 25.0 | 37.6 |

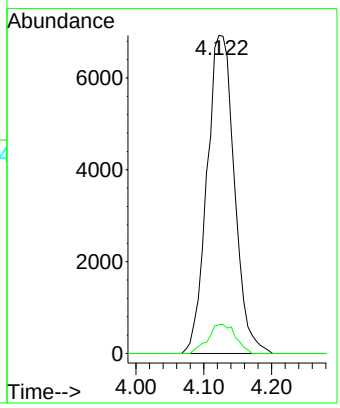





#17
Carbon Disulfide
Concen: 10.187 ug/l
RT: 4.122 min Scan# 39
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 76 Resp: 19437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 6.9 | 10.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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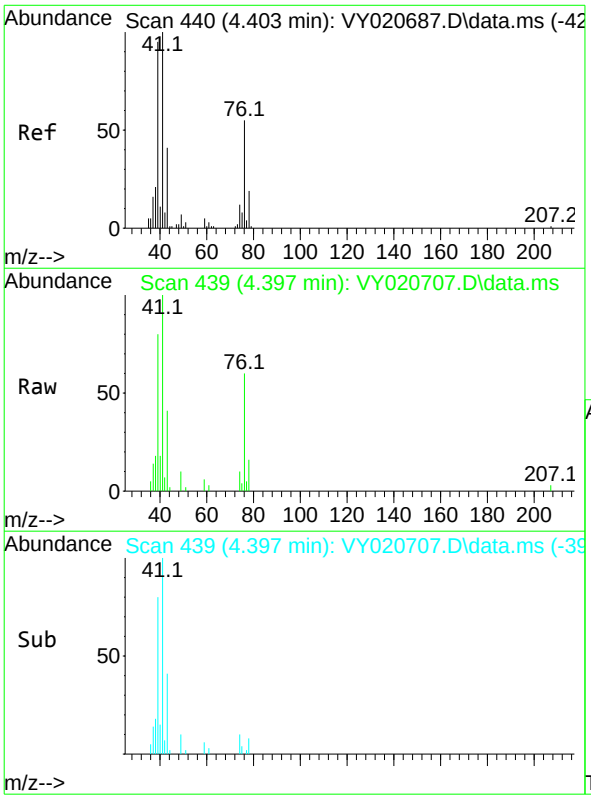
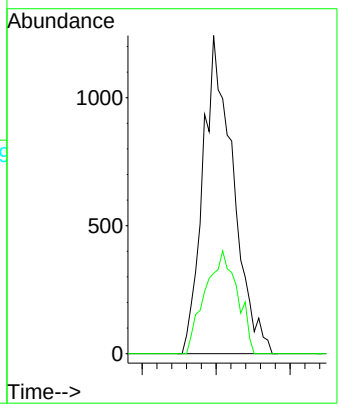
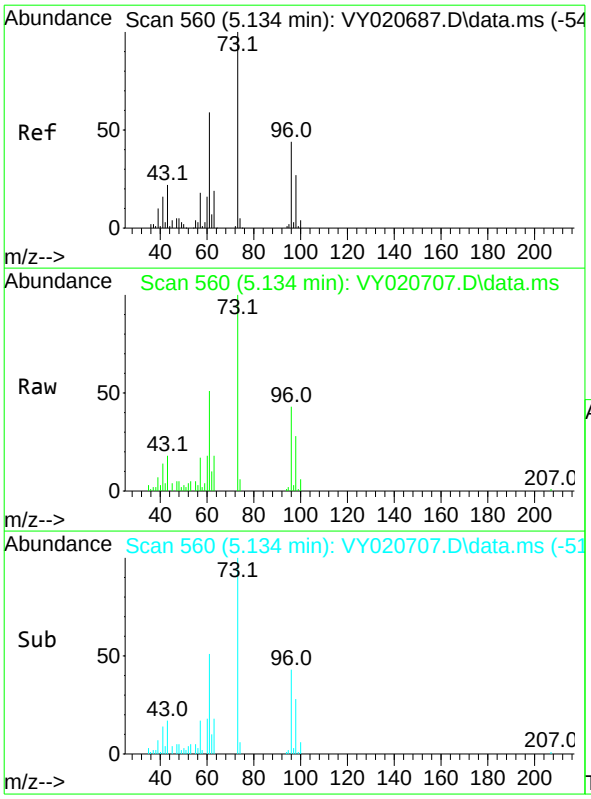



#18
Methyl Acetate
Concen: 10.992 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 3518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 34.4 | 25.3 | 37.9 |

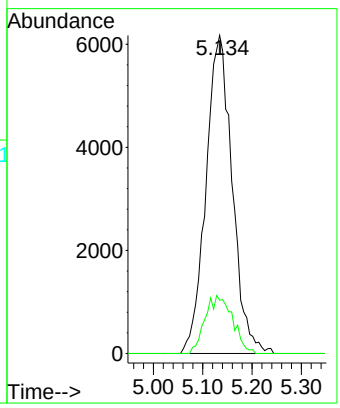





#19
Methyl tert-butyl Ether
Concen: 10.545 ug/l
RT: 5.134 min Scan# 56
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 73 Resp: 22860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 16.7 | 14.4 | 21.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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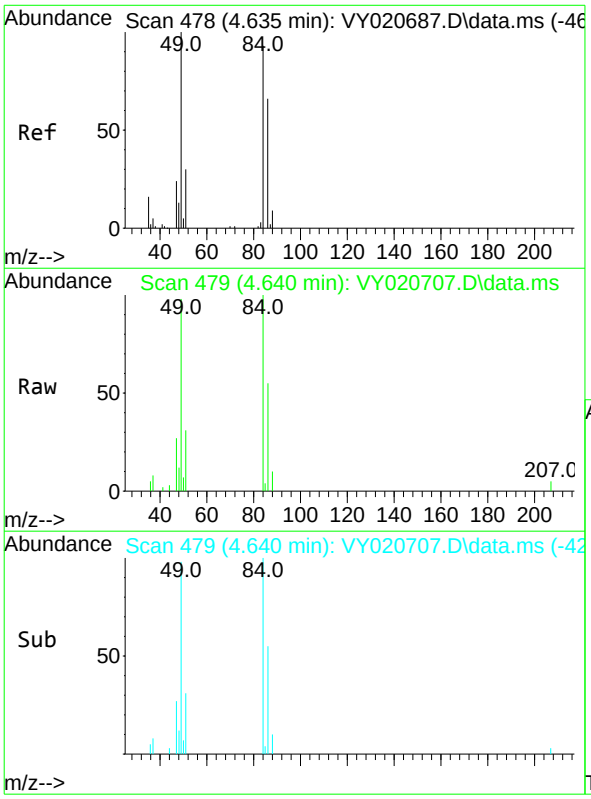
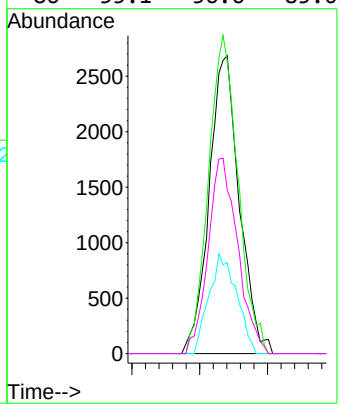
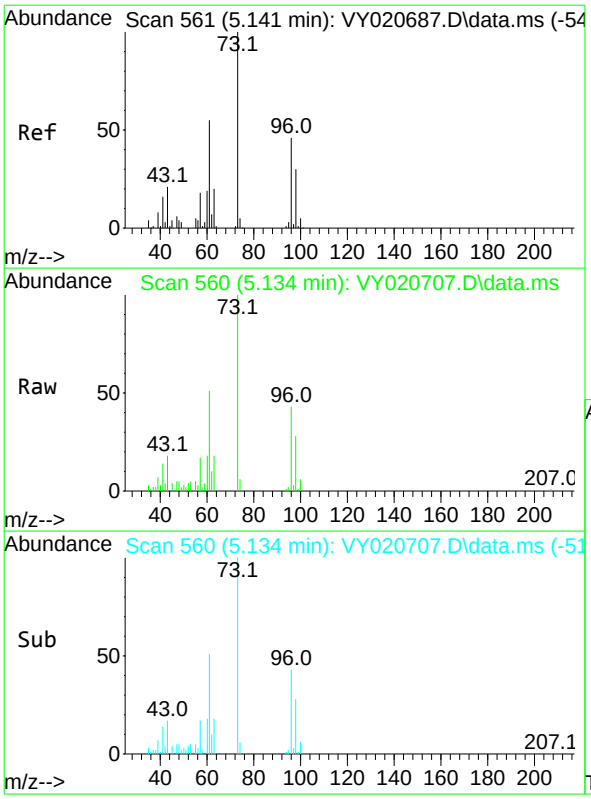



#20
Methylene Chloride
Concen: 10.812 ug/l
RT: 4.640 min Scan# 479
Delta R.T. 0.005 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 84 Resp: 8316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 98.3 | 86.4 | 129.6 |
| 51 | 30.5 | 25.5 | 38.3 |
| 86 | 55.1 | 56.6 | 85.0# |

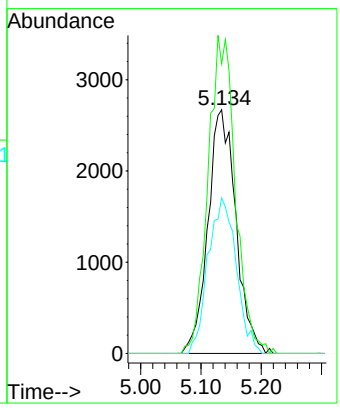





#21
trans-1,2-Dichloroethene
Concen: 10.261 ug/l
RT: 5.134 min Scan# 56
Delta R.T. -0.007 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 96 Resp: 8600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.9 | 96.1 | 144.1 |
| 98 | 63.8 | 52.7 | 79.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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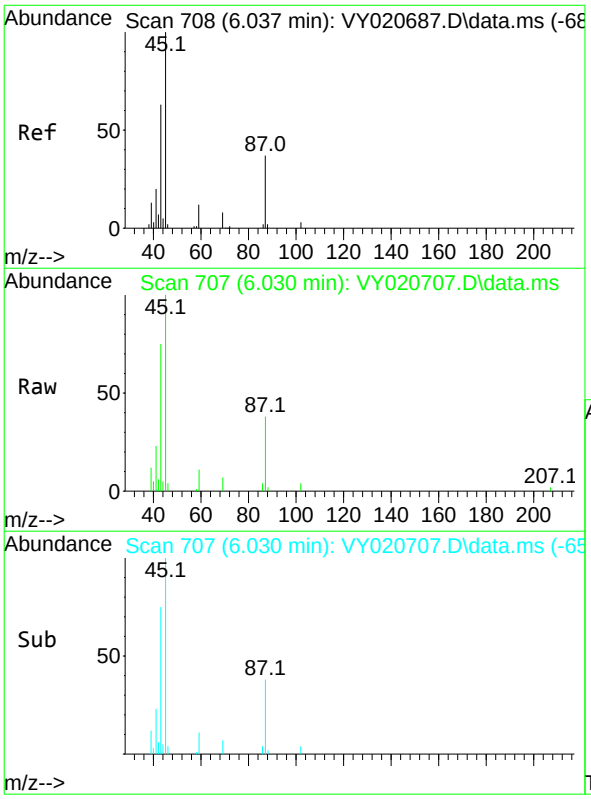
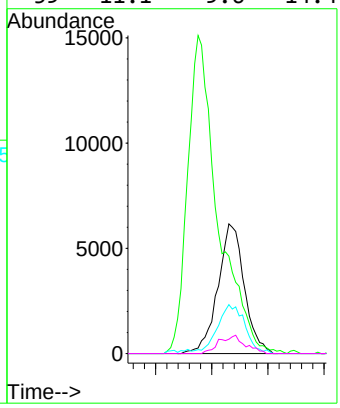
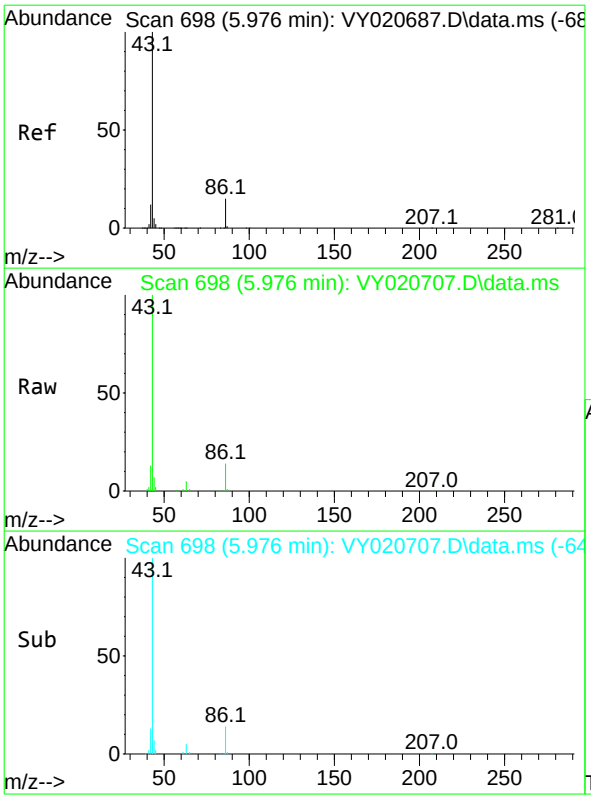



#22
Diisopropyl ether
Concen: 10.869 ug/l
RT: 6.030 min Scan# 707
Delta R.T. -0.007 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 45 Resp: 20110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 73.2 | 51.3 | 76.9 |
| 87 | 37.8 | 30.6 | 46.0 |
| 59 | 11.1 | 9.6 | 14.4 |






#23
Vinyl Acetate
Concen: 51.276 ug/l
RT: 5.976 min Scan# 69
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 56669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.0 | 12.0 | 18.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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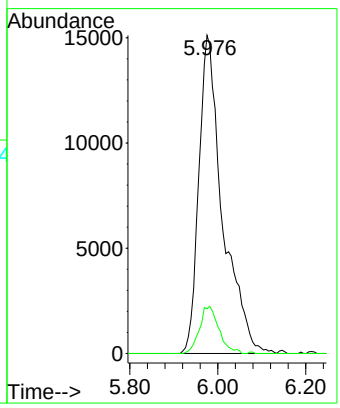
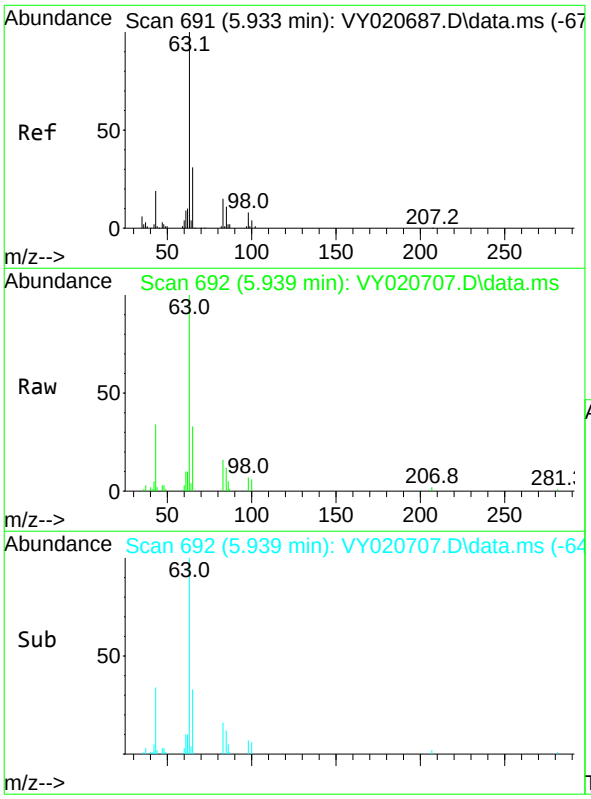
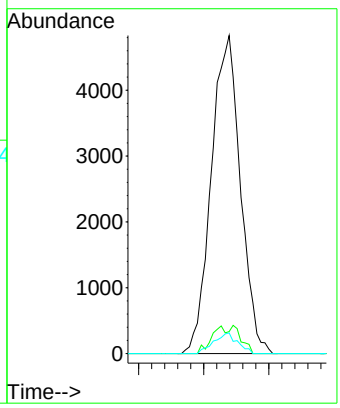


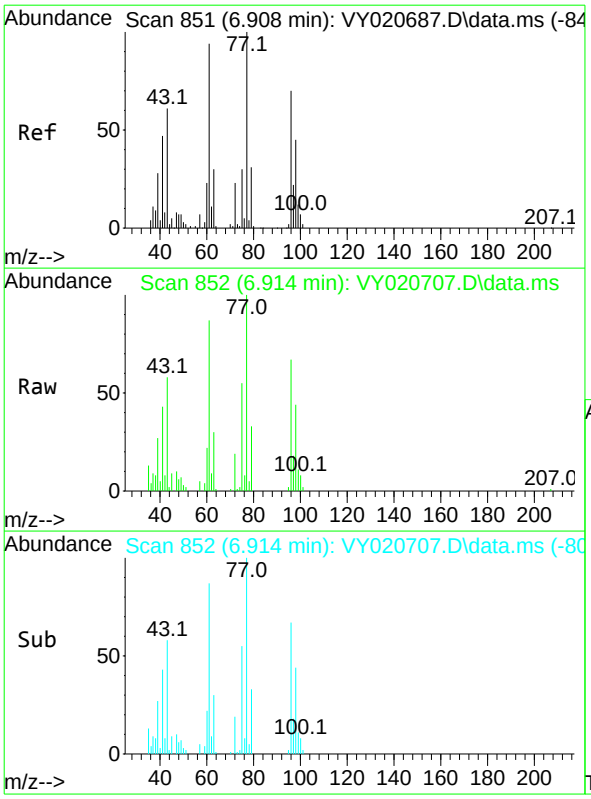




#24
1,1-Dichloroethane
Concen: 10.838 ug/l
RT: 5.939 min Scan# 692
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 63 Resp: 15035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 4.0 | 12.0 |
| 100 | 6.5 | 2.1 | 6.2# |

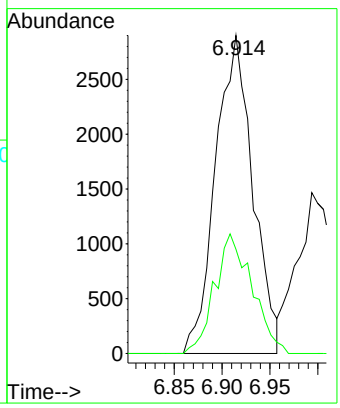





#25
2-Butanone
Concen: 49.191 ug/l
RT: 6.914 min Scan# 85
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 7858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 32.7 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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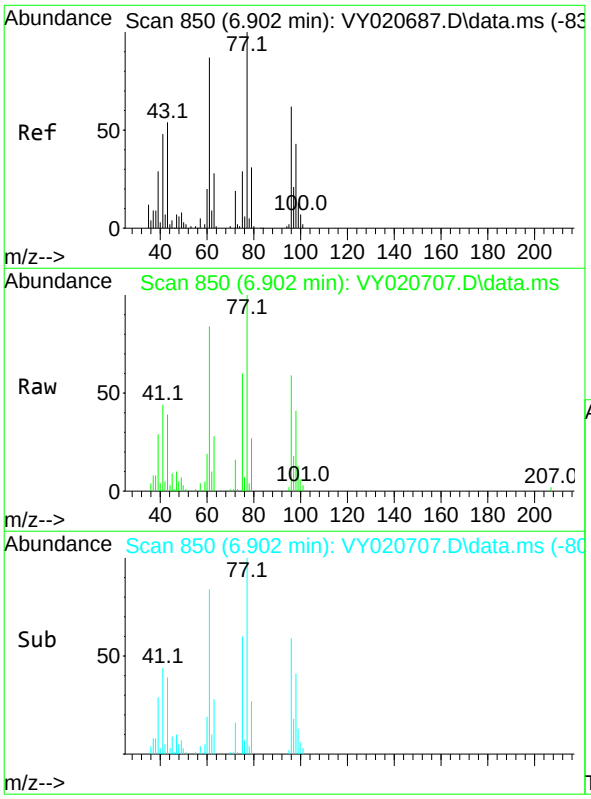
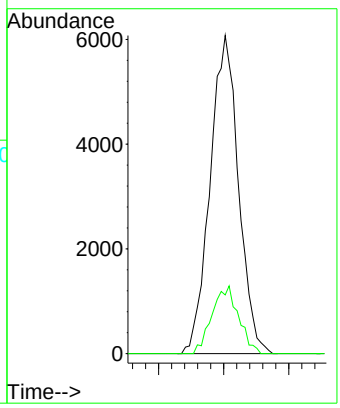
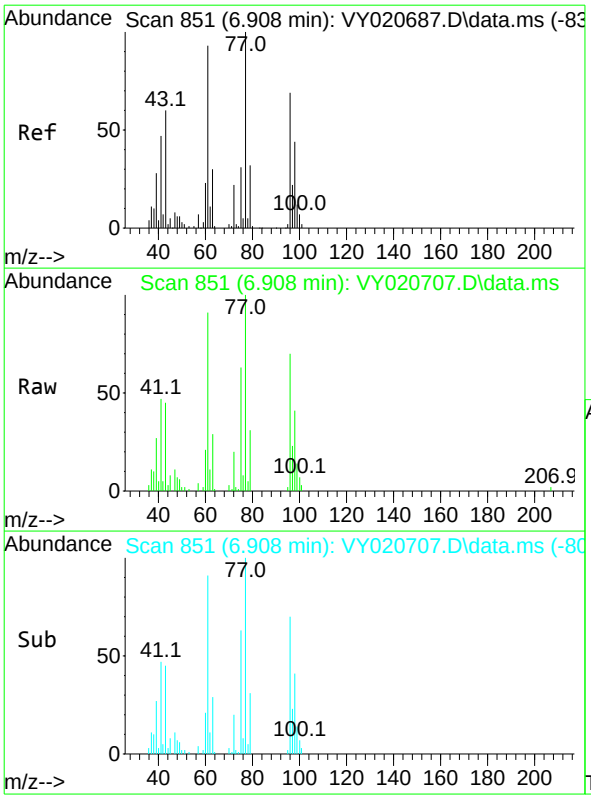



#26
2,2-Dichloropropane
Concen: 10.868 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 77 Resp: 18453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 19.8 | 10.8 | 32.4 |






#27
cis-1,2-Dichloroethene
Concen: 10.425 ug/l
RT: 6.908 min Scan# 85
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 96 Resp: 10464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.6 | 0.0 | 277.2 |
| 98 | 66.9 | 0.0 | 131.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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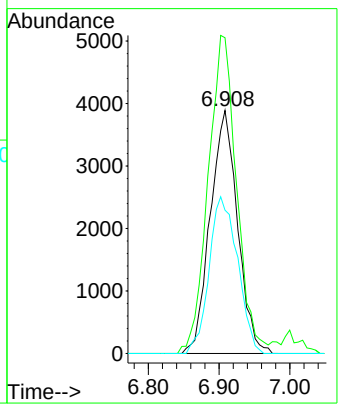
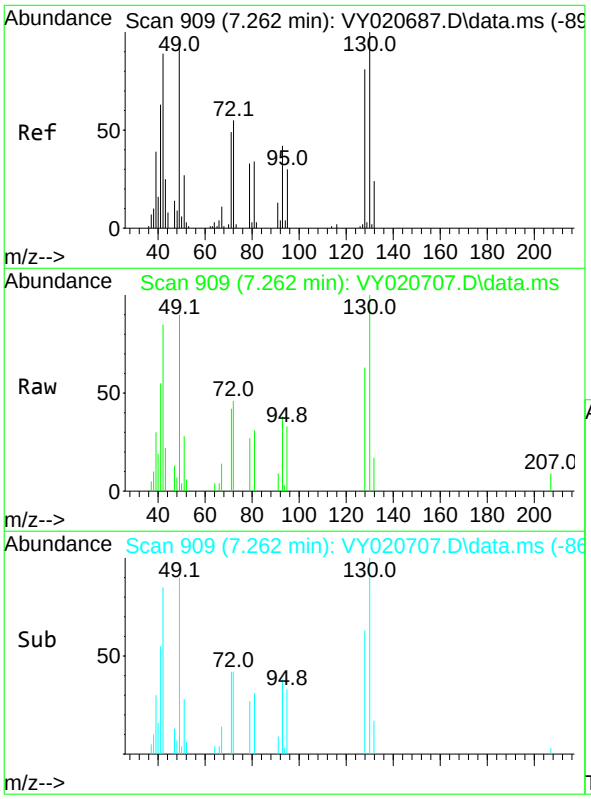
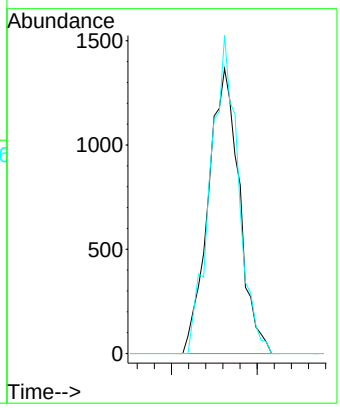


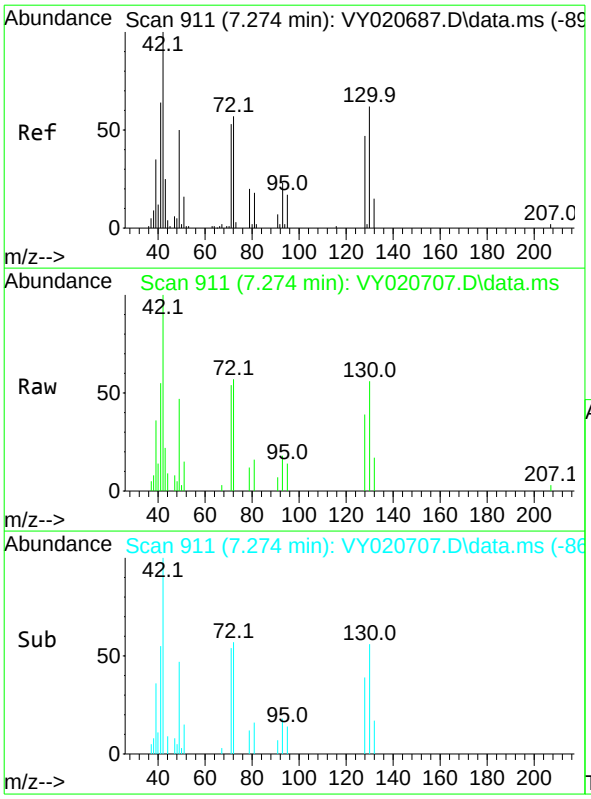




#28
Bromochloromethane
Concen: 9.369 ug/l
RT: 7.262 min Scan# 909
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 49 Resp: 3437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 5.4 |
| 130 | 101.0 | 87.2 | 130.8 |

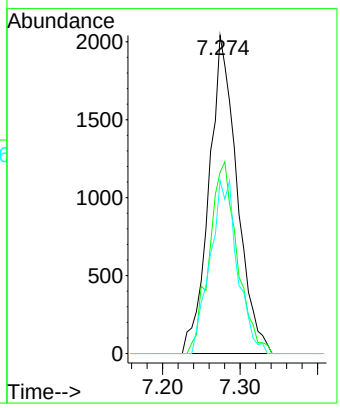





#29
Tetrahydrofuran
Concen: 52.267 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 42 Resp: 5125

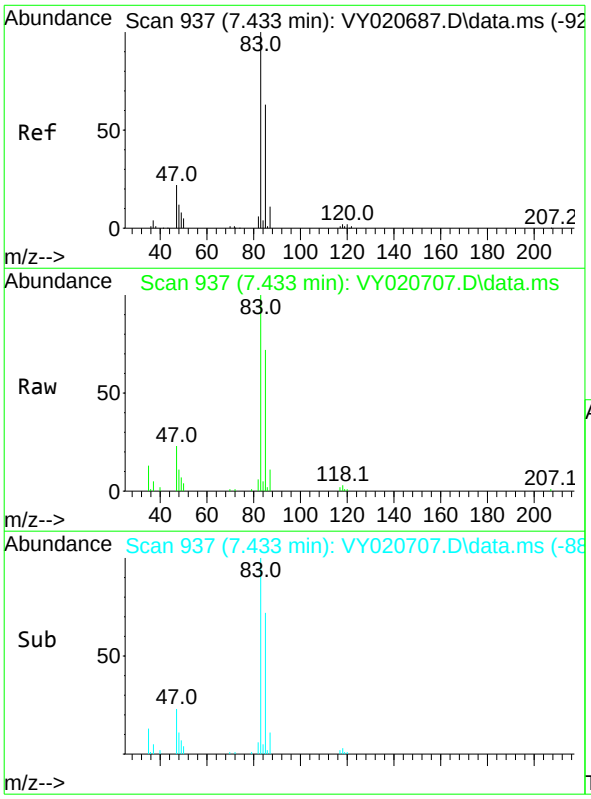
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 60.2 | 47.4 | 71.0 |
| 71 | 53.4 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

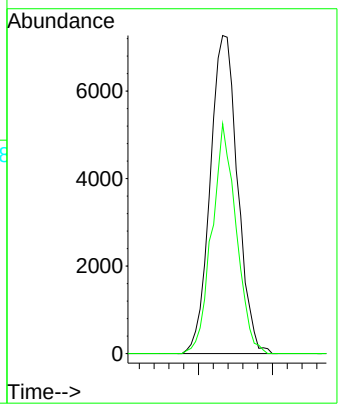
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

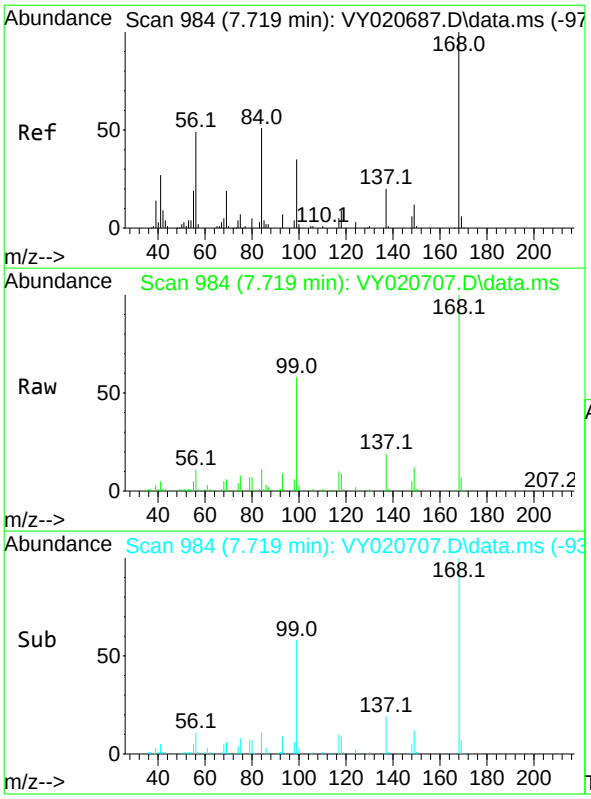



#30
Chloroform
Concen: 10.474 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 83 Resp: 18692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 72.2 | 50.2 | 75.2 |

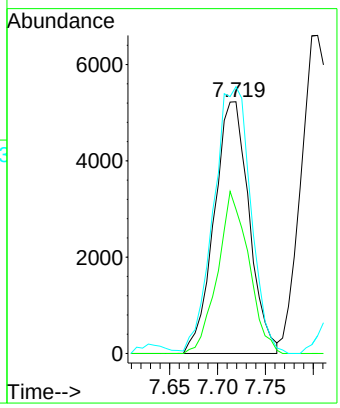





#31
Cyclohexane
Concen: 11.072 ug/l
RT: 7.719 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 56 Resp: 13258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 57.3 | 31.3 | 46.9# |
| 84 | 104.8 | 83.9 | 125.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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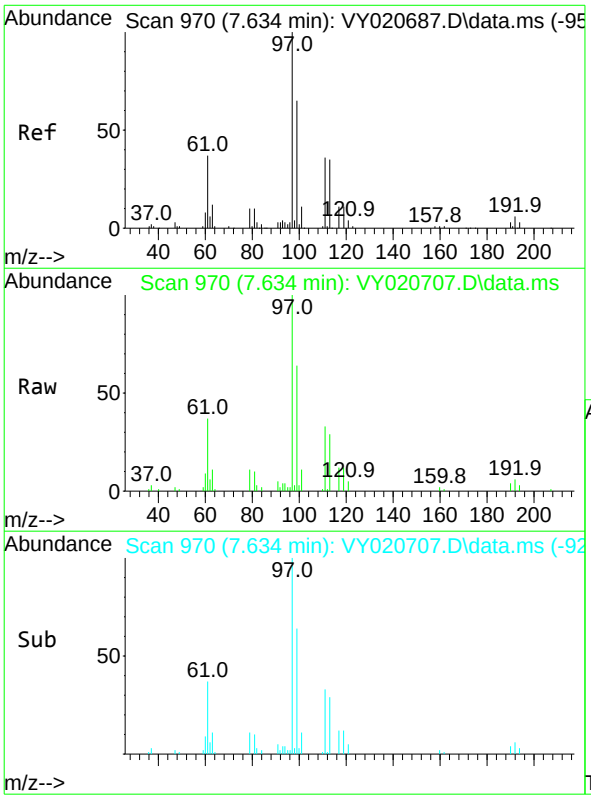
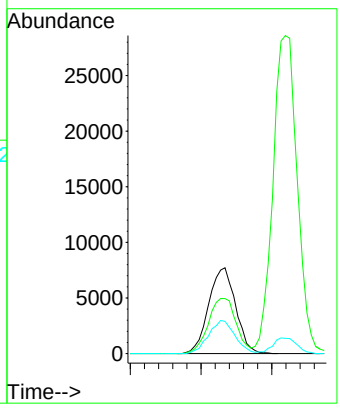
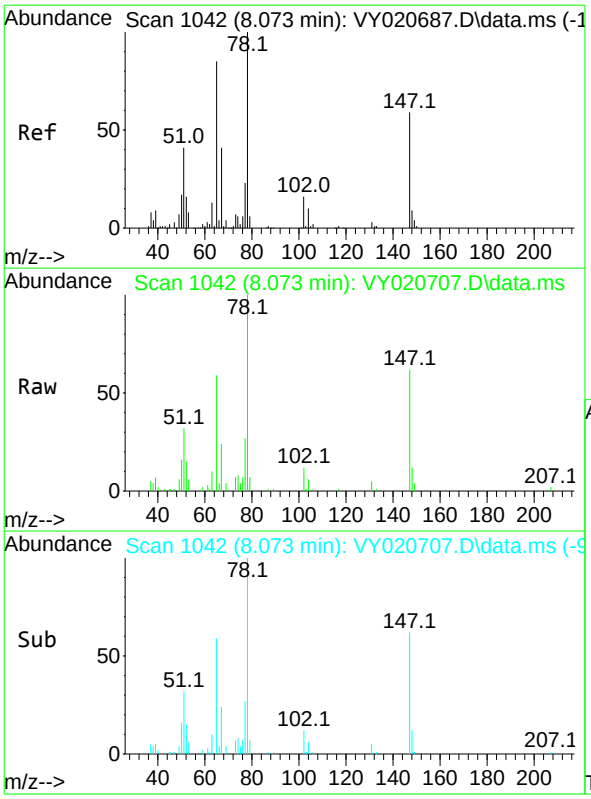



#32
1,1,1-Trichloroethane
Concen: 10.668 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 97 Resp: 20406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 66.3 | 51.0 | 76.6 |
| 61 | 37.6 | 30.0 | 45.0 |

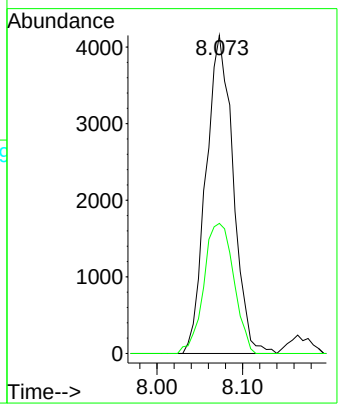





#33
1,2-Dichloroethane-d4
Concen: 9.814 ug/l
RT: 8.073 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 65 Resp: 9148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 45.1 | 0.0 | 98.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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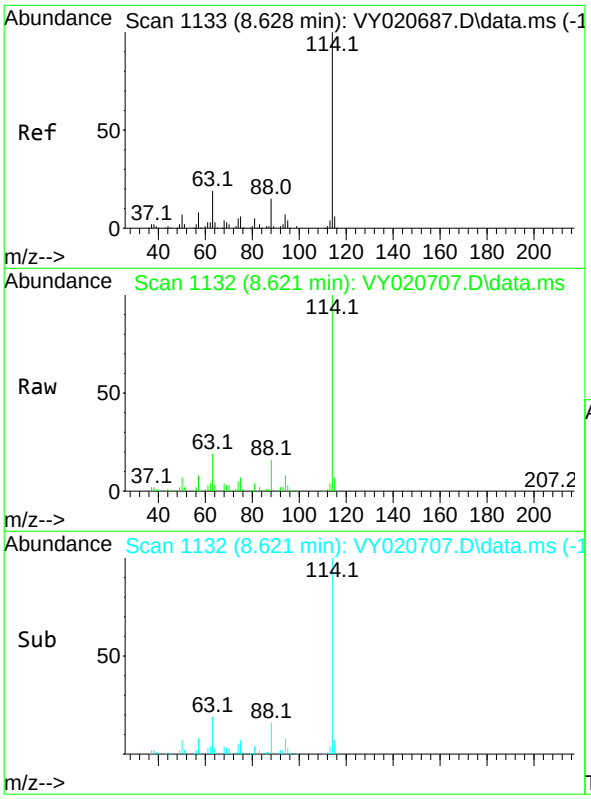
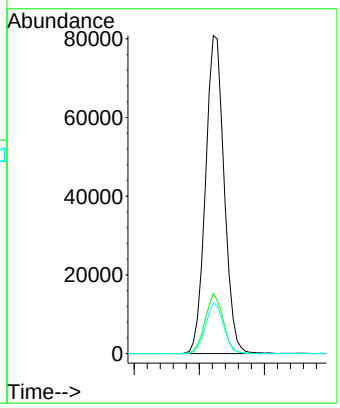
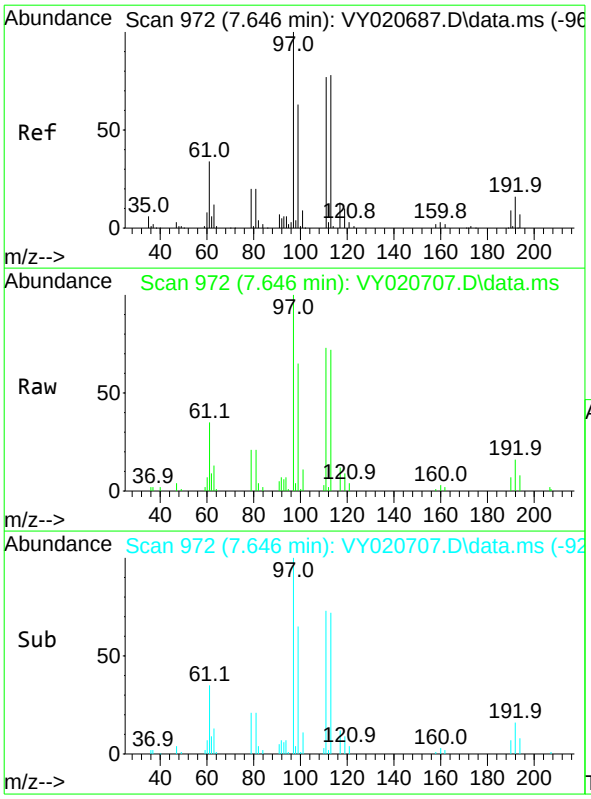



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 1132
Delta R.T. -0.007 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:114 Resp: 160513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.9 | 0.0 | 38.4 |
| 88 | 16.0 | 0.0 | 30.4 |






#35
Dibromofluoromethane
Concen: 9.966 ug/l
RT: 7.646 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:113 Resp: 8811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.3 | 79.8 | 119.8 |
| 192 | 22.6 | 17.0 | 25.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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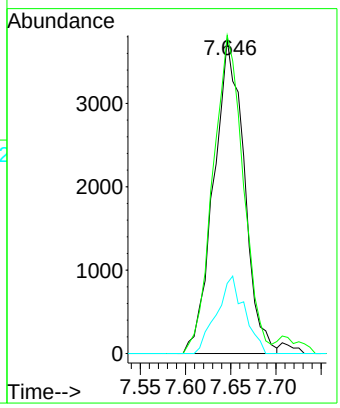
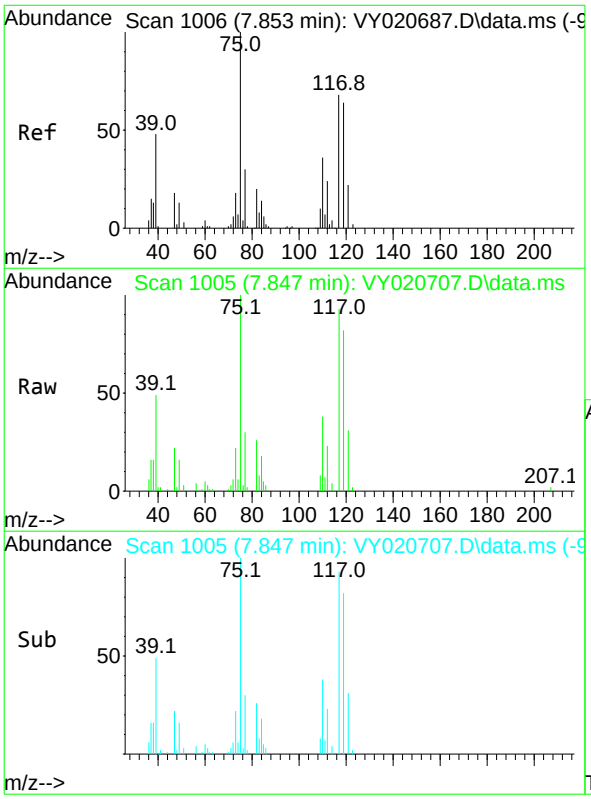
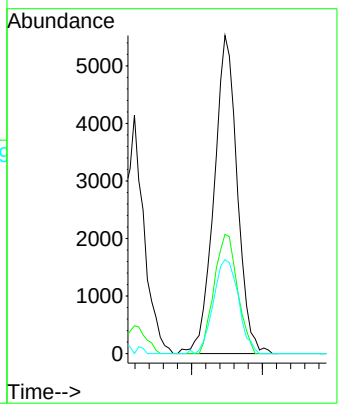


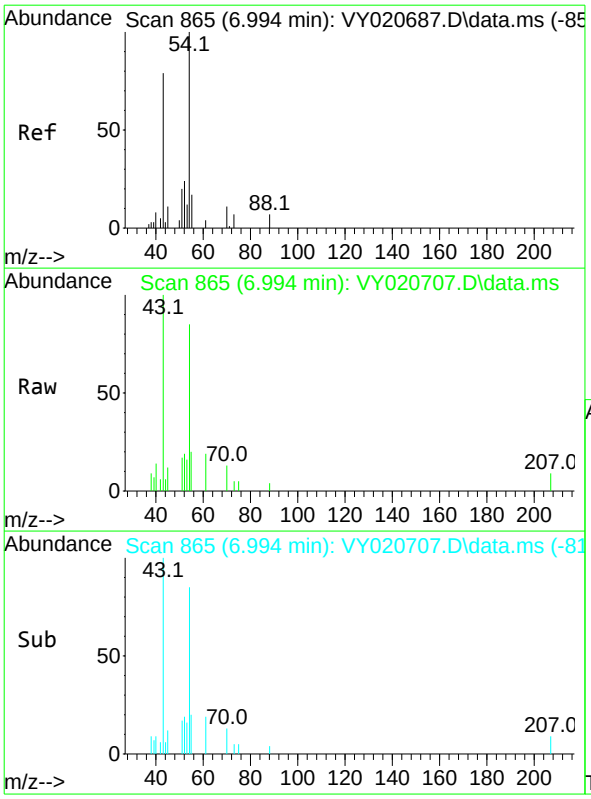




#36
1,1-Dichloropropene
Concen: 10.790 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 75 Resp: 12601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.7 | 19.6 | 58.7 |
| 77 | 31.8 | 25.1 | 37.7 |






#37
Ethyl Acetate
Concen: 9.217 ug/l
RT: 6.994 min Scan# 86
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 3547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.7 | 11.7 | 17.5 |
| 70 | 13.5 | 11.0 | 16.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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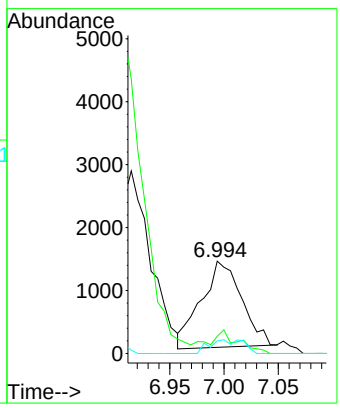
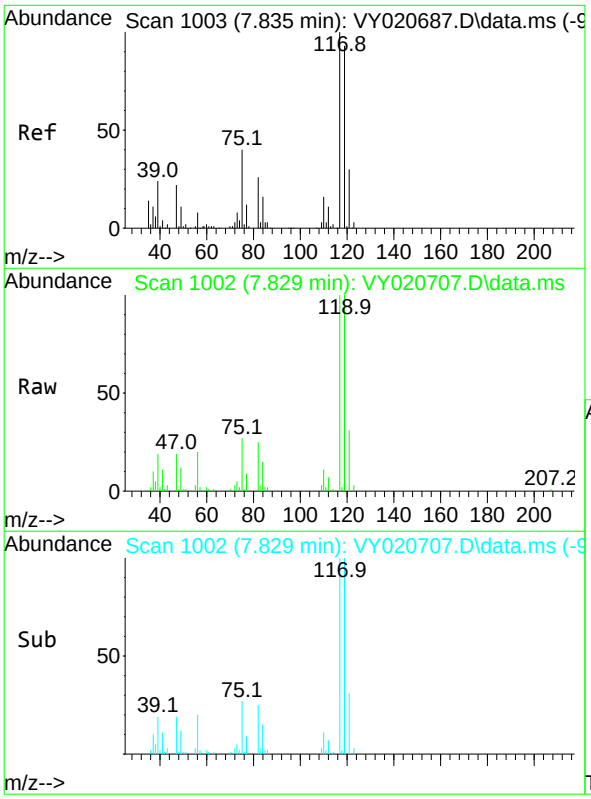
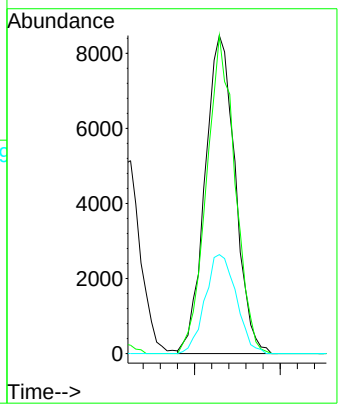


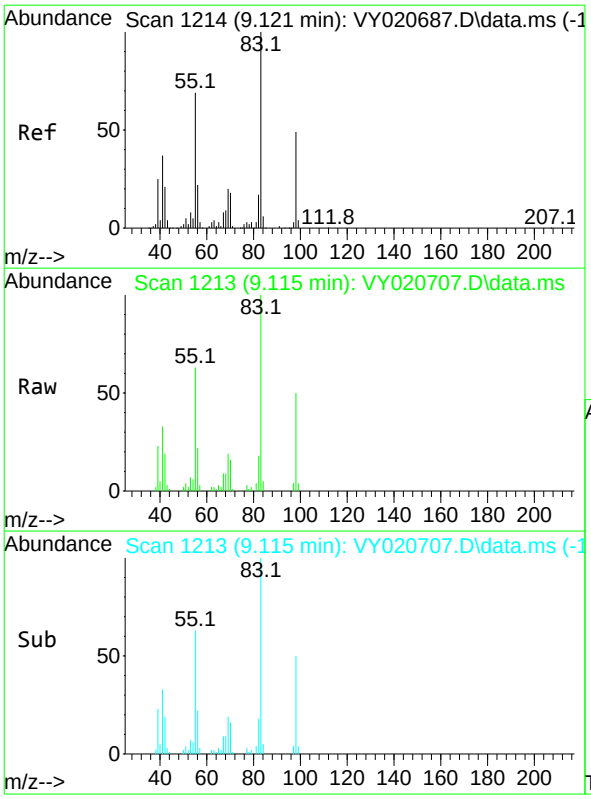




#38
Carbon Tetrachloride
Concen: 10.755 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:117 Resp: 20683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 100.0 | 74.4 | 111.6 |
| 121 | 31.1 | 24.2 | 36.2 |

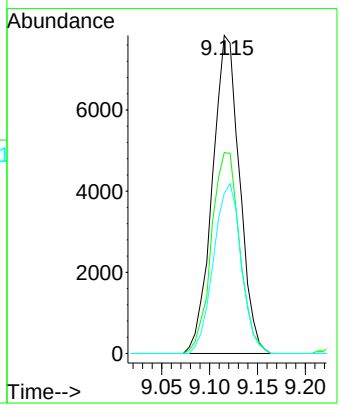





#39
Methylcyclohexane
Concen: 10.353 ug/l
RT: 9.115 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 83 Resp: 15497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 63.2 | 55.0 | 82.4 |
| 98 | 50.4 | 39.0 | 58.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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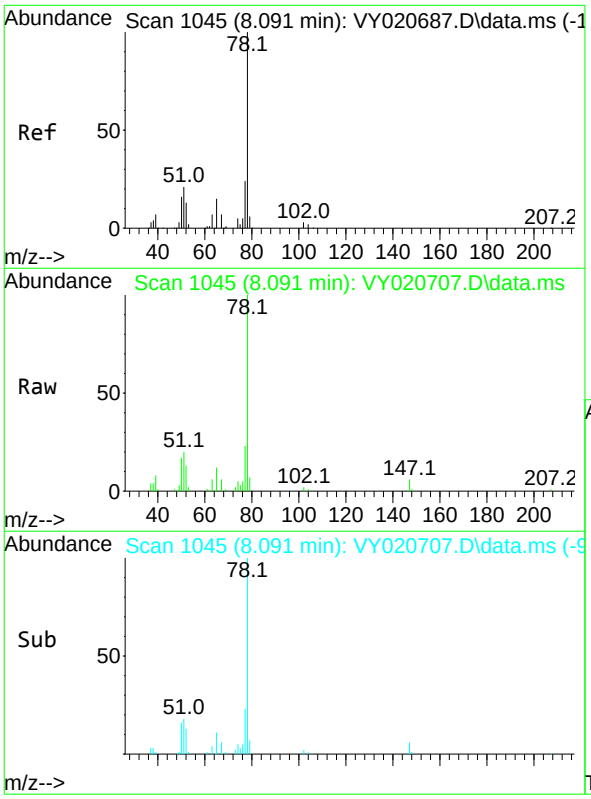
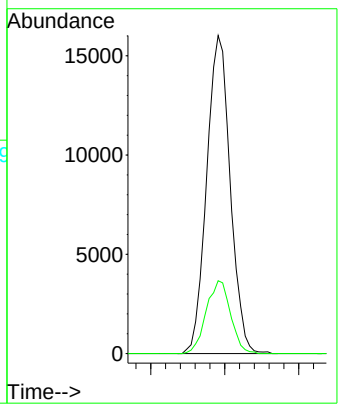
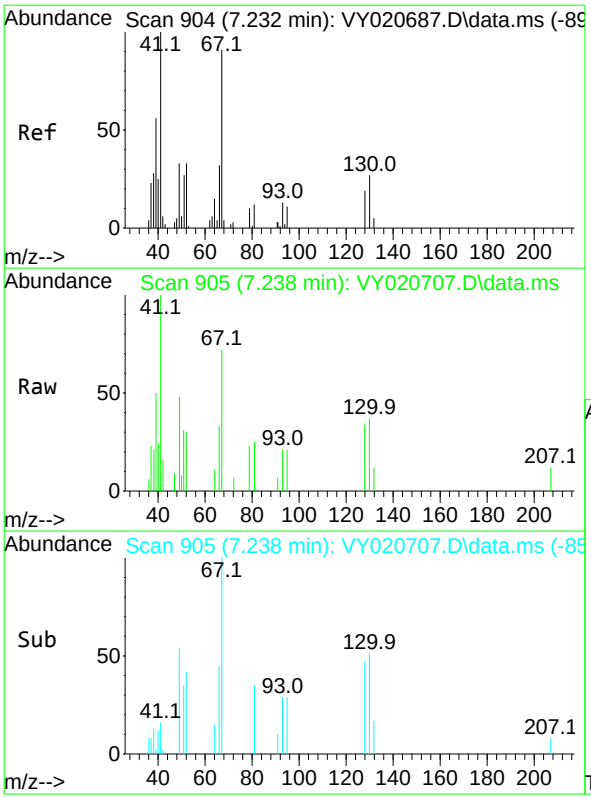



#40
Benzene
Concen: 10.473 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 78 Resp: 35447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.9 | 19.2 | 28.8 |

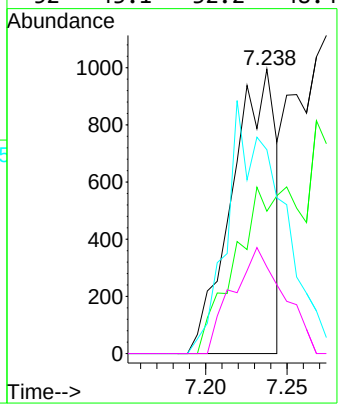





#41
Methacrylonitrile
Concen: 9.650 ug/l
RT: 7.238 min Scan# 90
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 41 Resp: 1876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 0.0 | 46.6 | 70.0# |
| 67 | 108.0 | 74.7 | 112.1 |
| 52 | 43.1 | 32.2 | 48.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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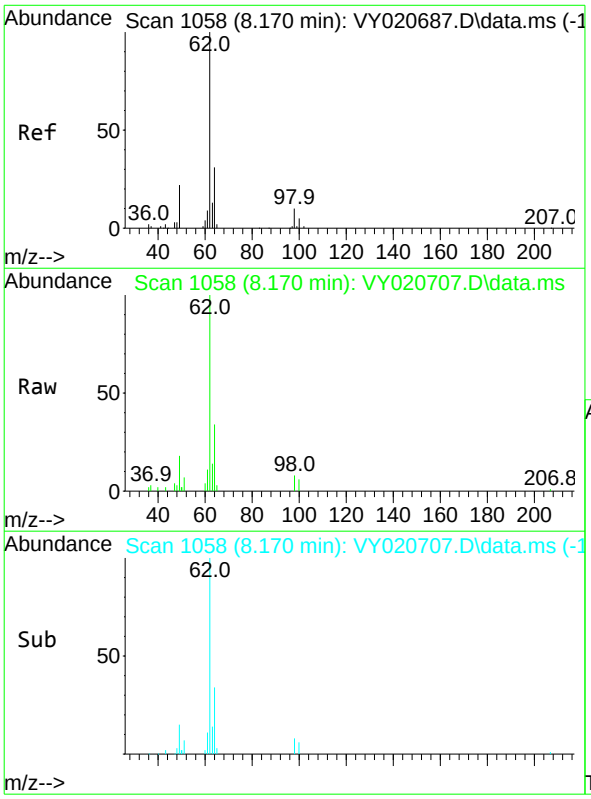
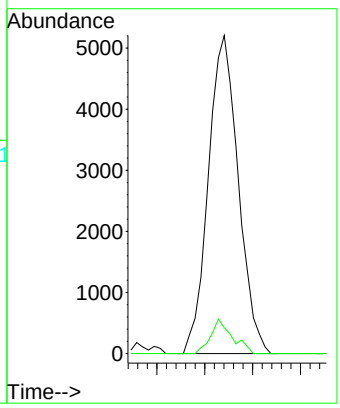
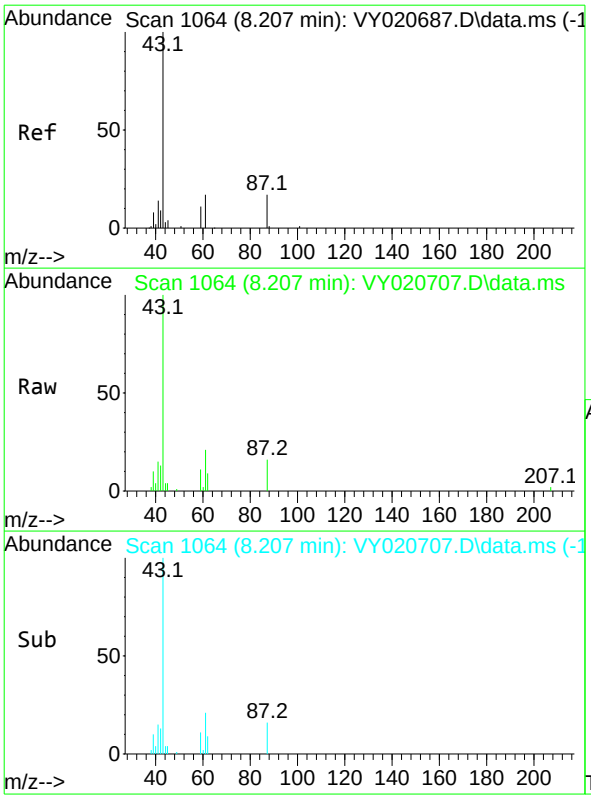



#42
1,2-Dichloroethane
Concen: 10.424 ug/l
RT: 8.170 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 62 Resp: 11313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.8 | 0.0 | 16.6 |

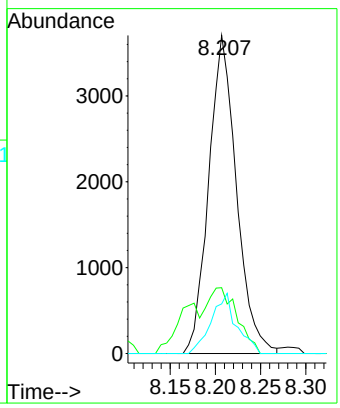





#43
Isopropyl Acetate
Concen: 9.664 ug/l
RT: 8.207 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 7905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.6 | 27.0 | 40.4# |
| 87 | 17.3 | 14.2 | 21.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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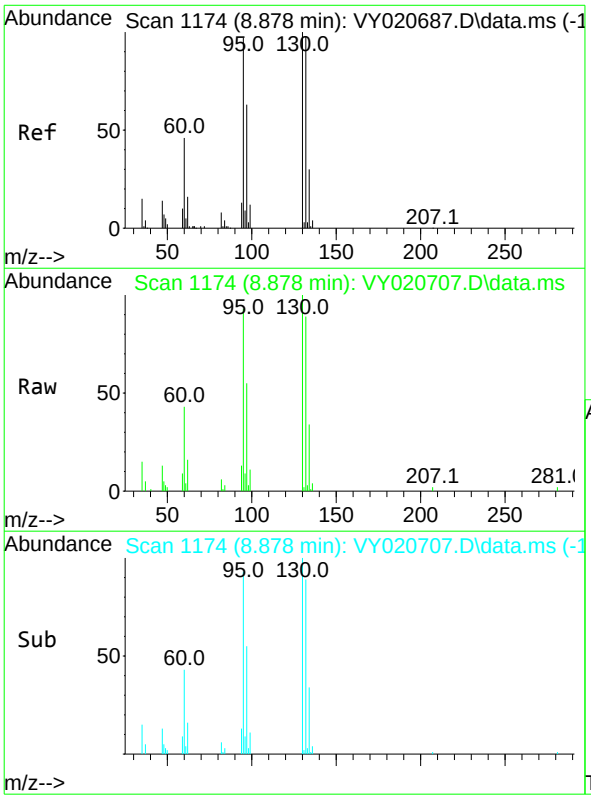
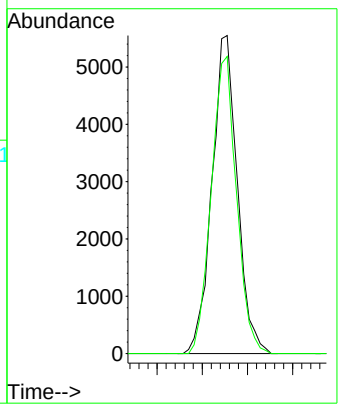
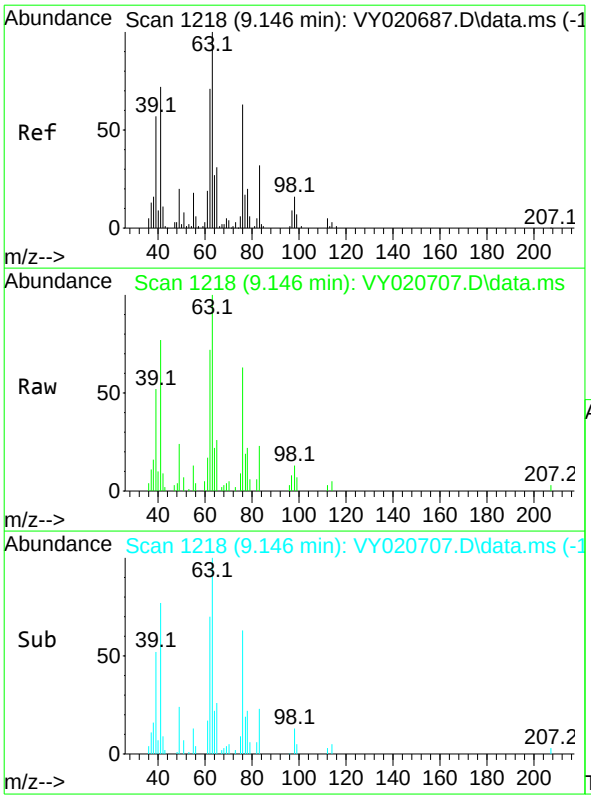



#44
Trichloroethene
Concen: 10.673 ug/l
RT: 8.878 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:130 Resp: 10790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.4 | 0.0 | 194.8 |

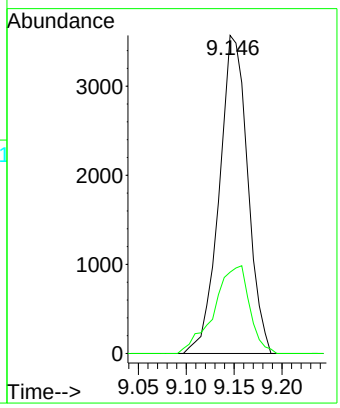





#45
1,2-Dichloropropane
Concen: 10.767 ug/l
RT: 9.146 min Scan# 12
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 63 Resp: 7377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 25.6 | 24.6 | 36.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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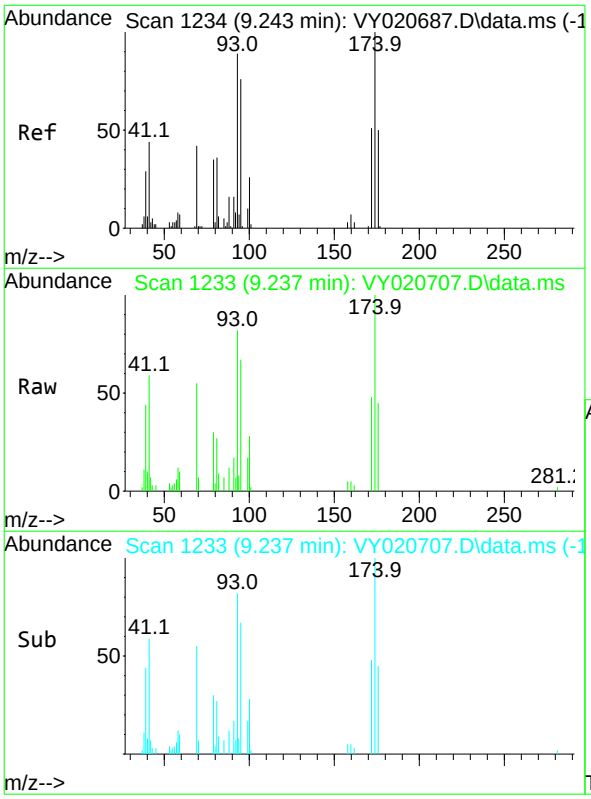
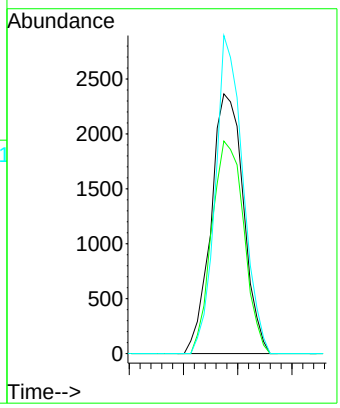
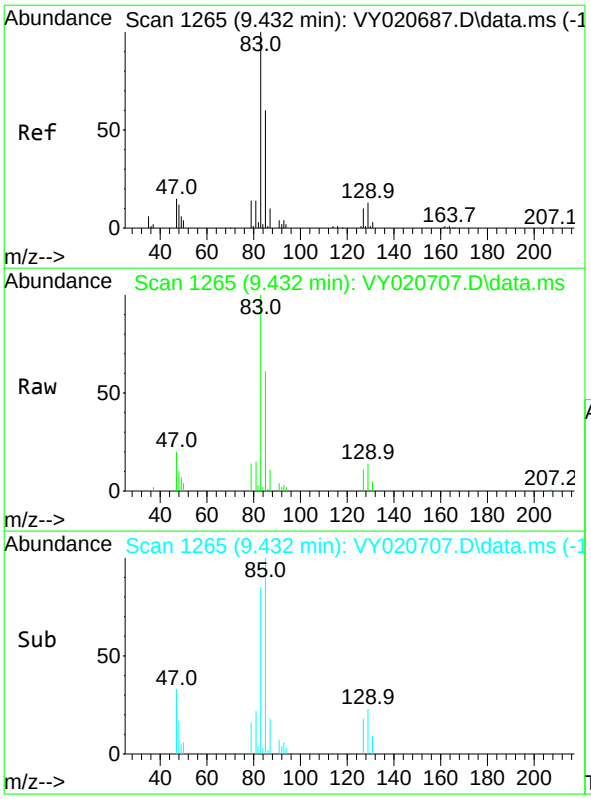



#46
Dibromomethane
Concen: 10.336 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 93 Resp: 4900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.9 | 67.8 | 101.8 |
| 174 | 104.0 | 89.4 | 134.0 |

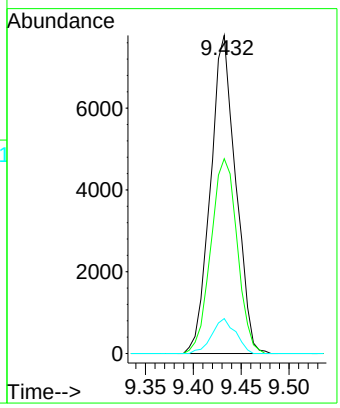





#47
Bromodichloromethane
Concen: 10.599 ug/l
RT: 9.432 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 83 Resp: 14245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.2 | 47.6 | 71.4 |
| 127 | 11.0 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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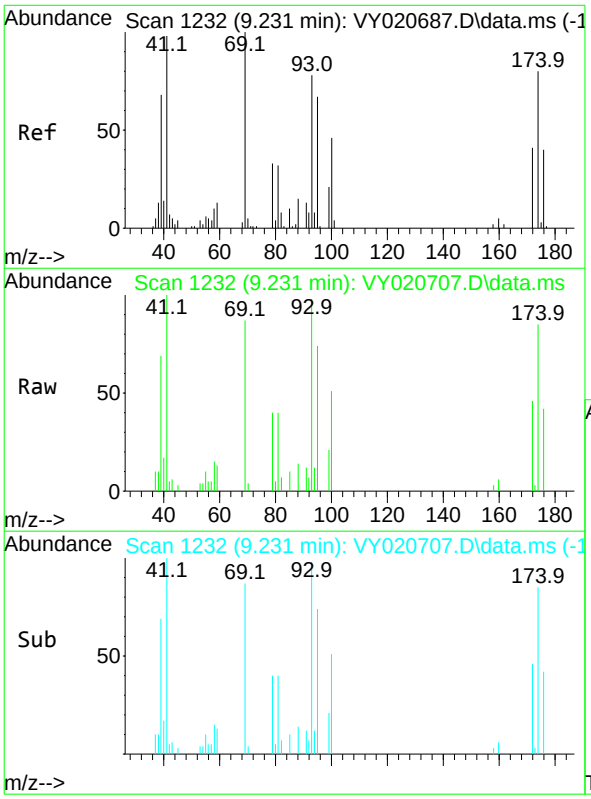
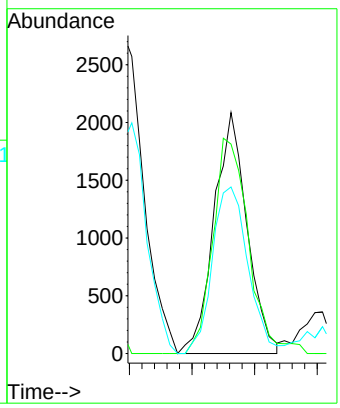
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

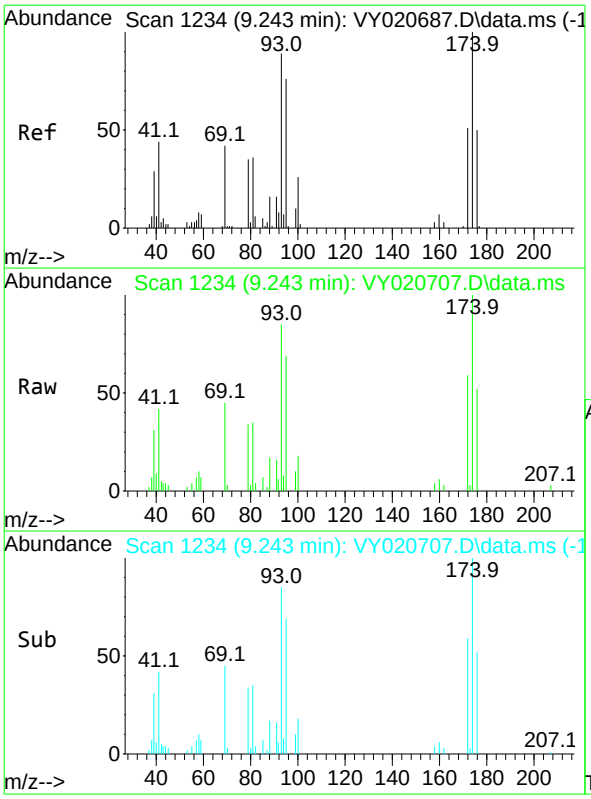



#48
Methyl methacrylate
Concen: 10.018 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 41 Resp: 3827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.4 | 83.1 | 124.7 |
| 39 | 74.5 | 57.3 | 85.9 |






#49
1,4-Dioxane
Concen: 204.624 ug/l
RT: 9.243 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 88 Resp: 924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.6 | 22.1 | 33.1 |
| 58 | 67.9 | 46.7 | 70.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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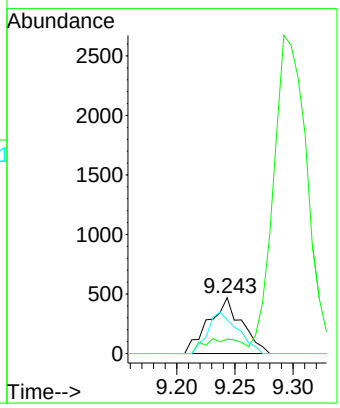
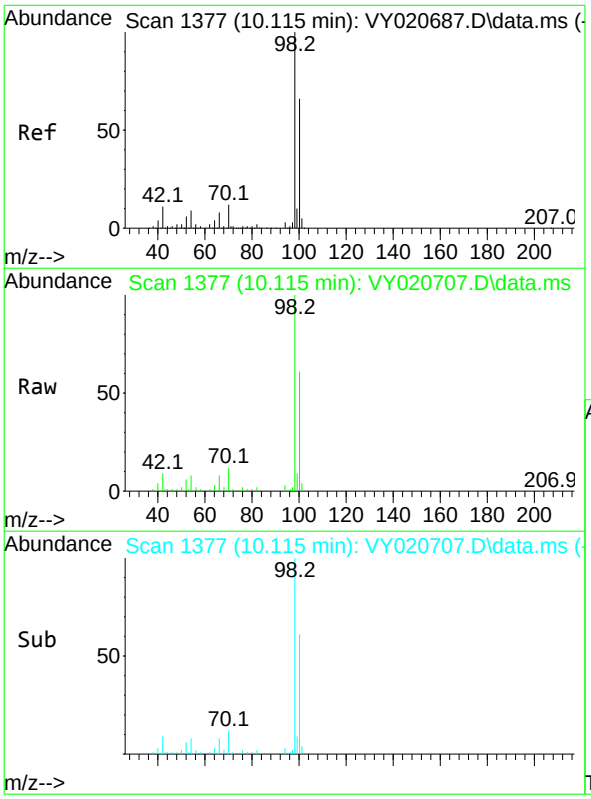
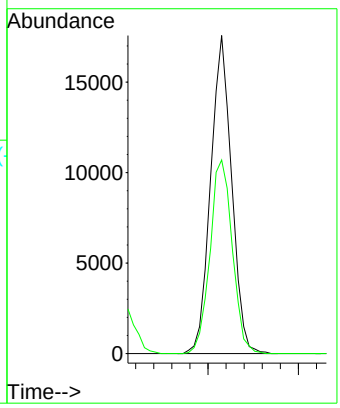


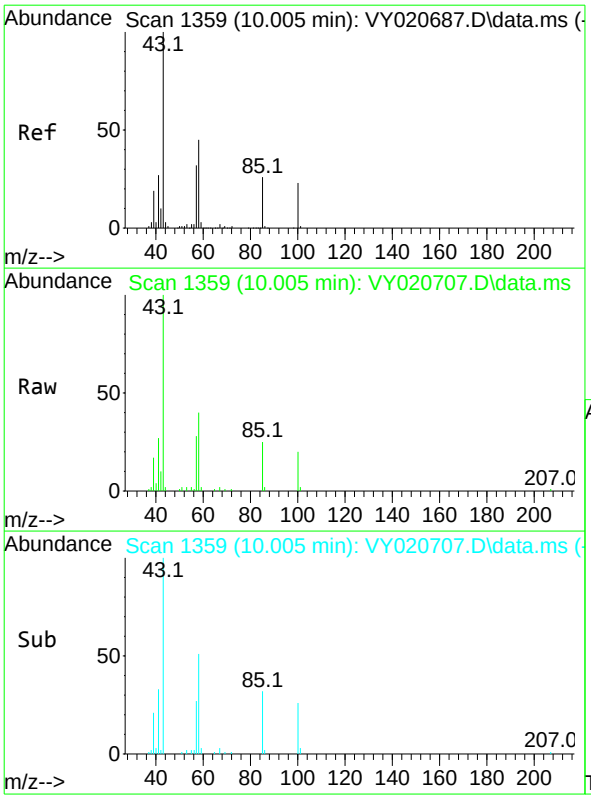




#50
Toluene-d8
Concen: 9.506 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 98 Resp: 28333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.2 | 78.4 |

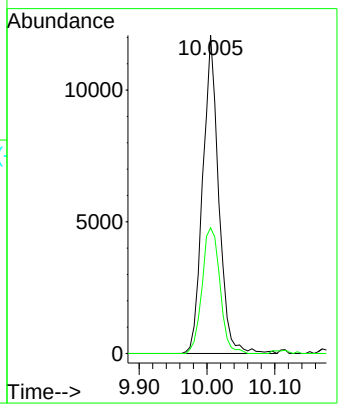





#51
4-Methyl-2-Pentanone
Concen: 49.951 ug/l
RT: 10.005 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 19722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.2 | 35.1 | 52.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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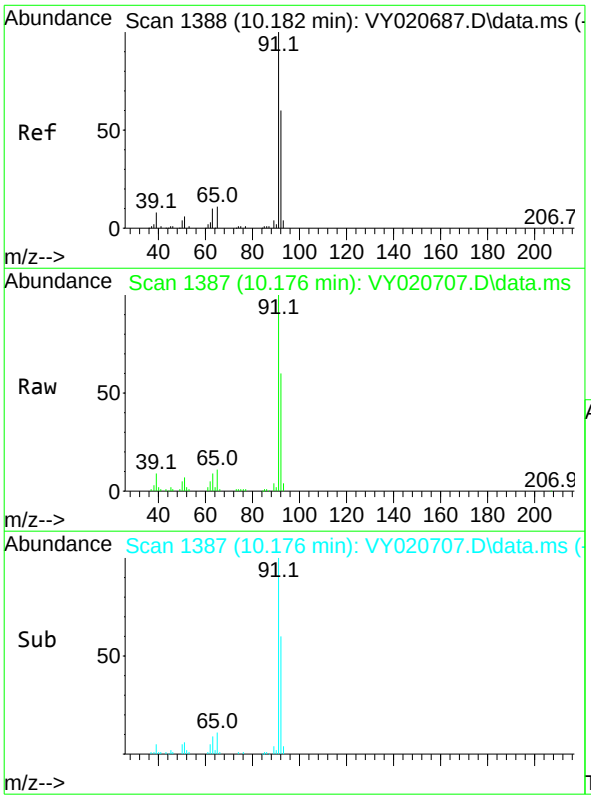
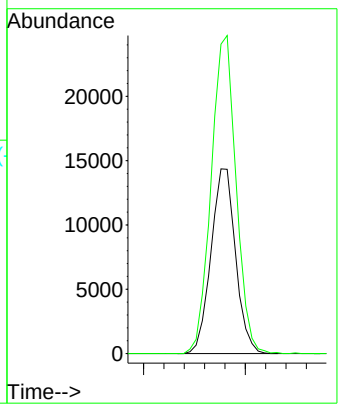
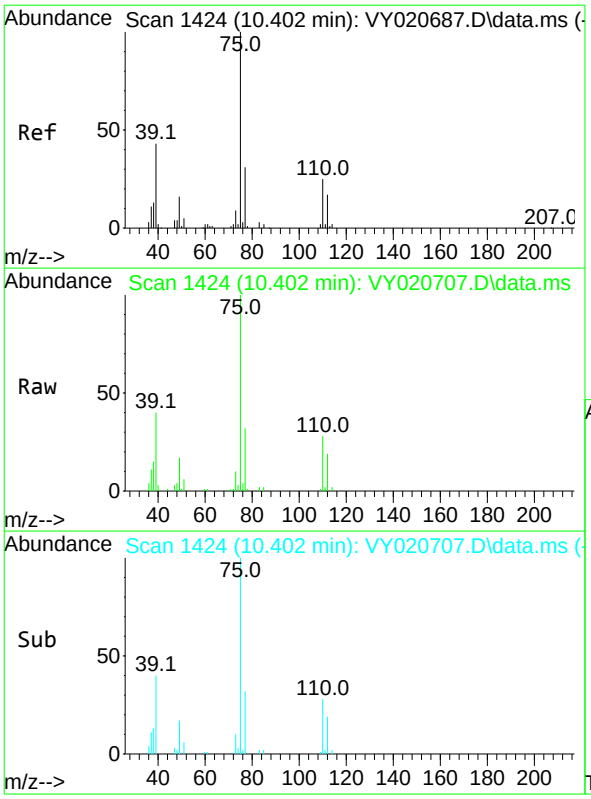



#52
Toluene
Concen: 10.393 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 92 Resp: 24111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.2 | 137.7 | 206.5 |

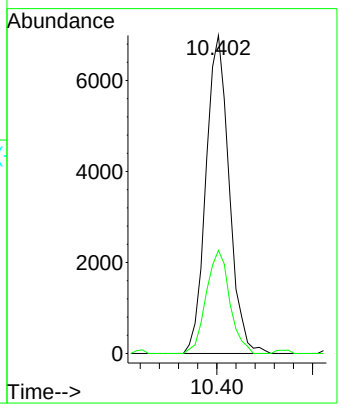





#53
t-1,3-Dichloropropene
Concen: 9.942 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 75 Resp: 11736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.1 | 37.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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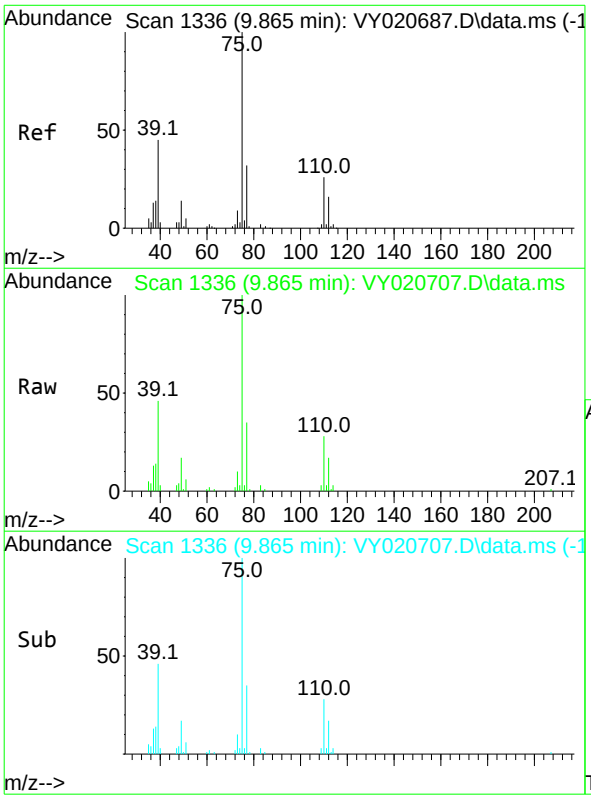
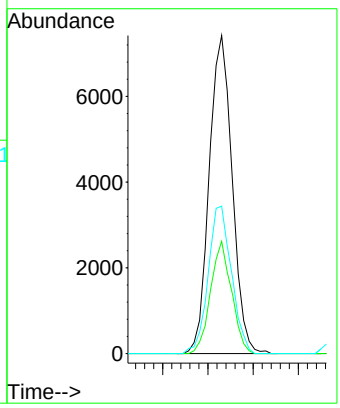
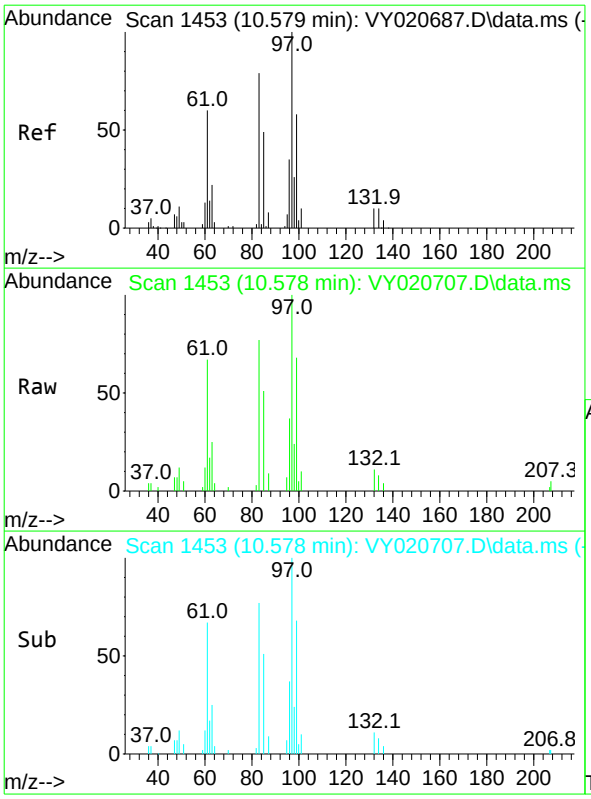



#54
cis-1,3-Dichloropropene
Concen: 10.121 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 75 Resp: 13095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 35.3 | 25.6 | 38.4 |
| 39 | 46.4 | 36.2 | 54.2 |

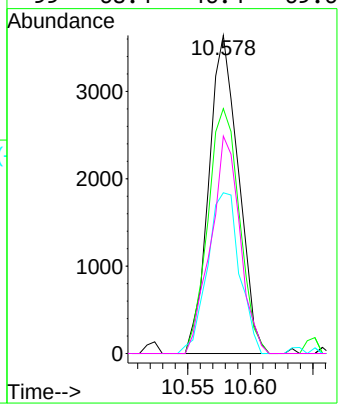





#55
1,1,2-Trichloroethane
Concen: 9.902 ug/l
RT: 10.578 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 97 Resp: 5992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 77.0 | 63.1 | 94.7 |
| 85 | 50.5 | 39.5 | 59.3 |
| 99 | 68.4 | 46.4 | 69.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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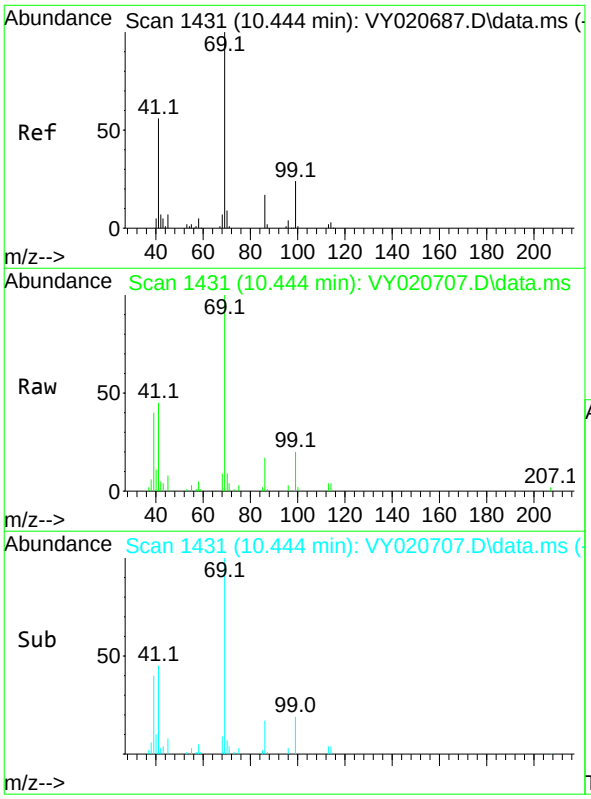
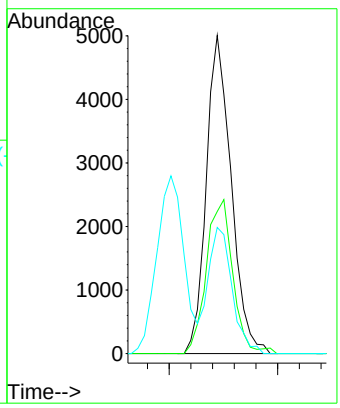
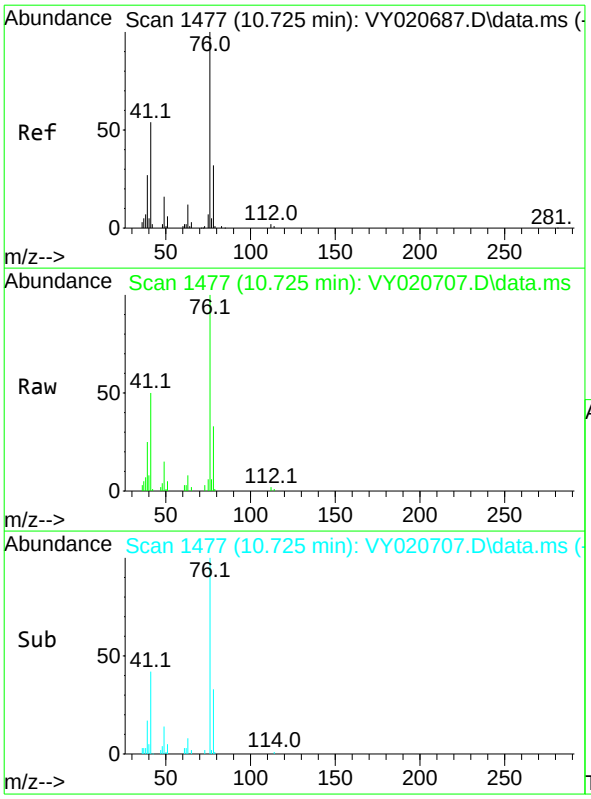



#56
Ethyl methacrylate
Concen: 10.046 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 69 Resp: 7986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 51.3 | 43.8 | 65.6 |
| 39 | 38.2 | 32.0 | 48.0 |

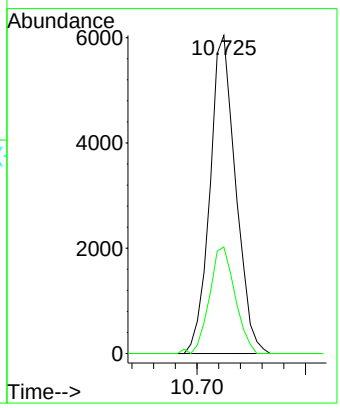





#57
1,3-Dichloropropane
Concen: 10.137 ug/l
RT: 10.725 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 76 Resp: 9956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.2 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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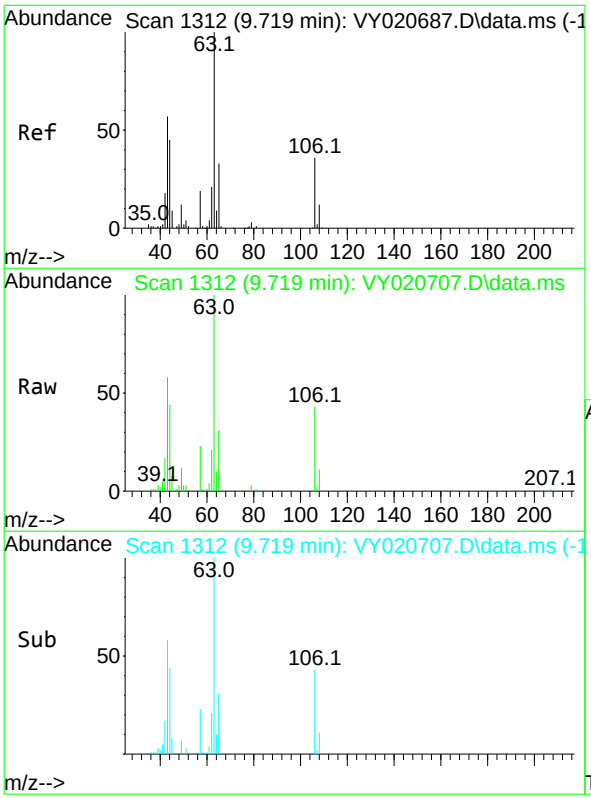
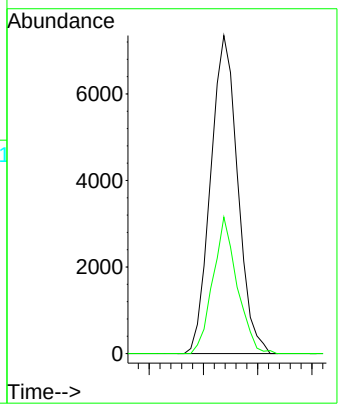
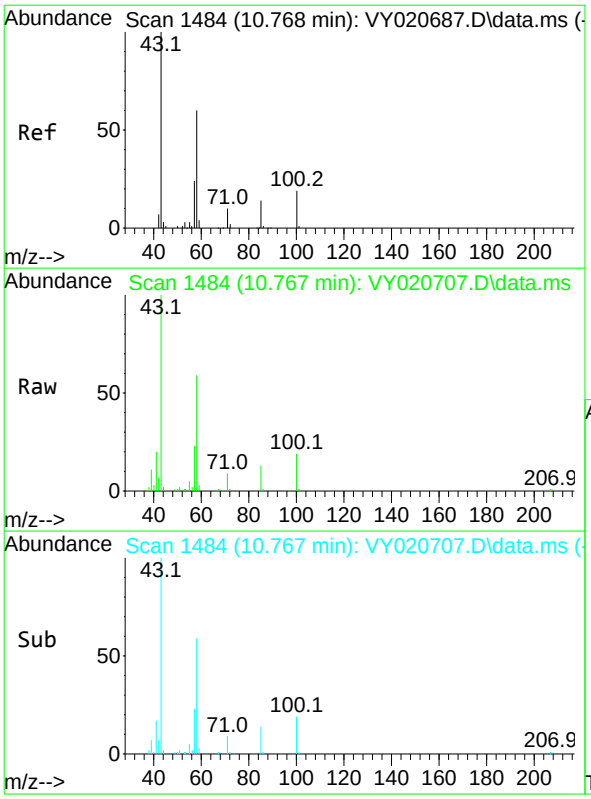



#58
2-Chloroethyl Vinyl ether
Concen: 45.957 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 63 Resp: 12740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 38.4 | 29.1 | 43.7 |

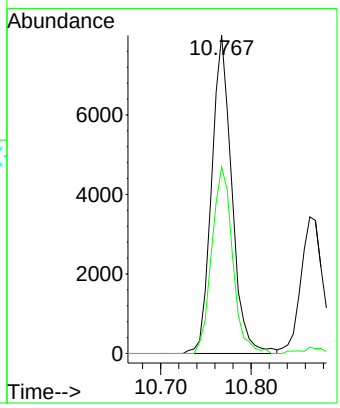





#59
2-Hexanone
Concen: 47.628 ug/l
RT: 10.767 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 12416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.3 | 30.1 | 90.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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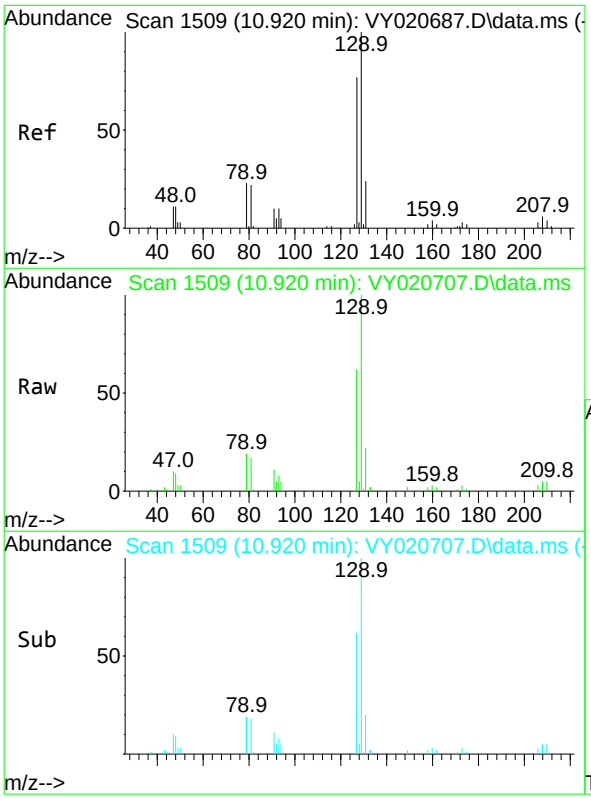
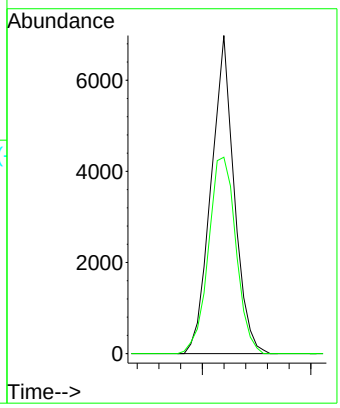
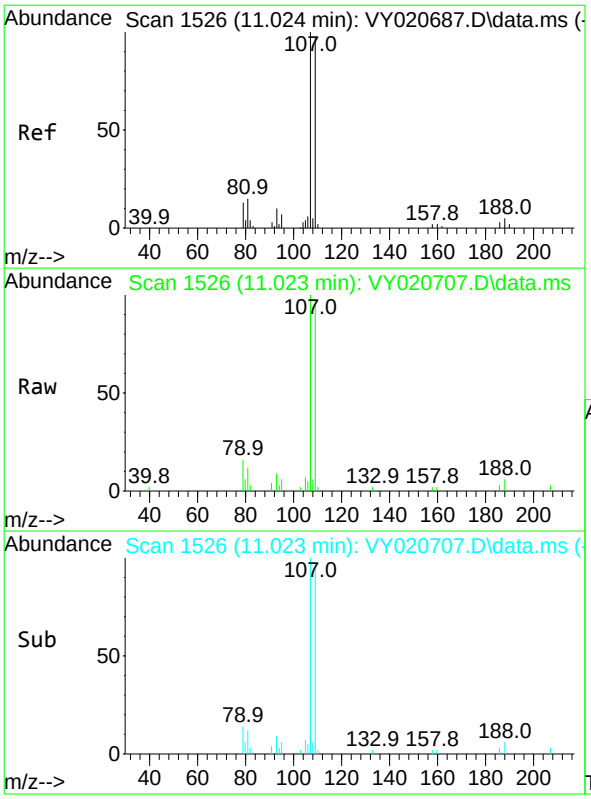



#60
Dibromochloromethane
Concen: 10.554 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:129 Resp: 10320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 73.5 | 38.5 | 115.5 |

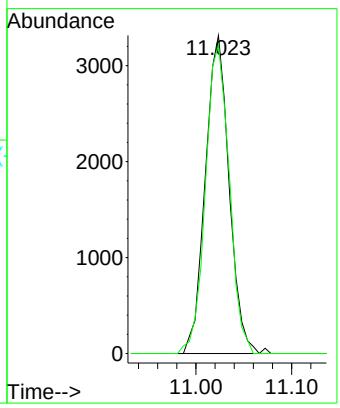





#61
1,2-Dibromoethane
Concen: 10.067 ug/l
RT: 11.023 min Scan# 15
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:107 Resp: 5732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.9 | 75.5 | 113.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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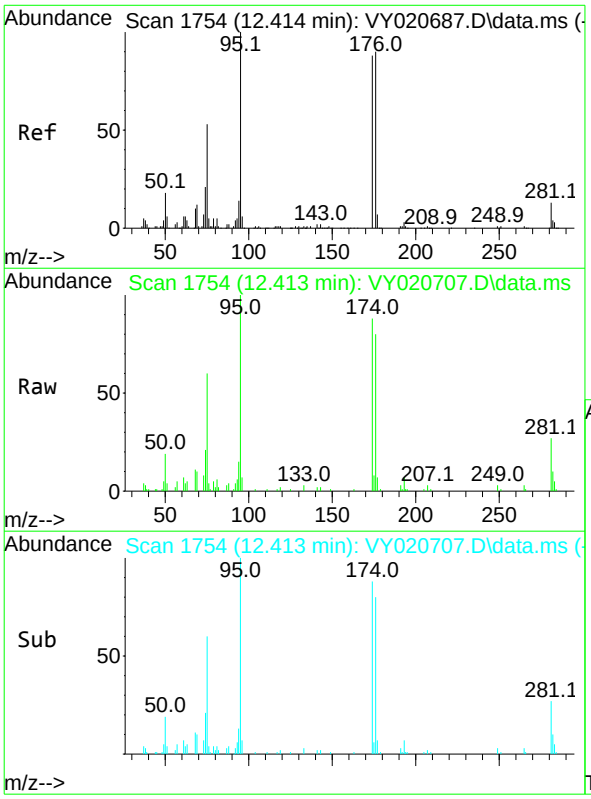
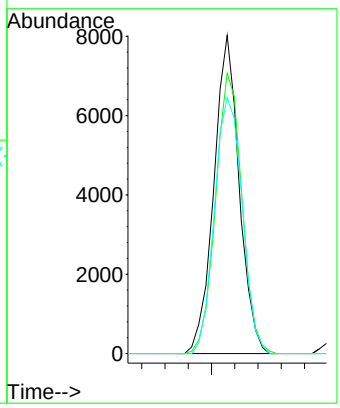
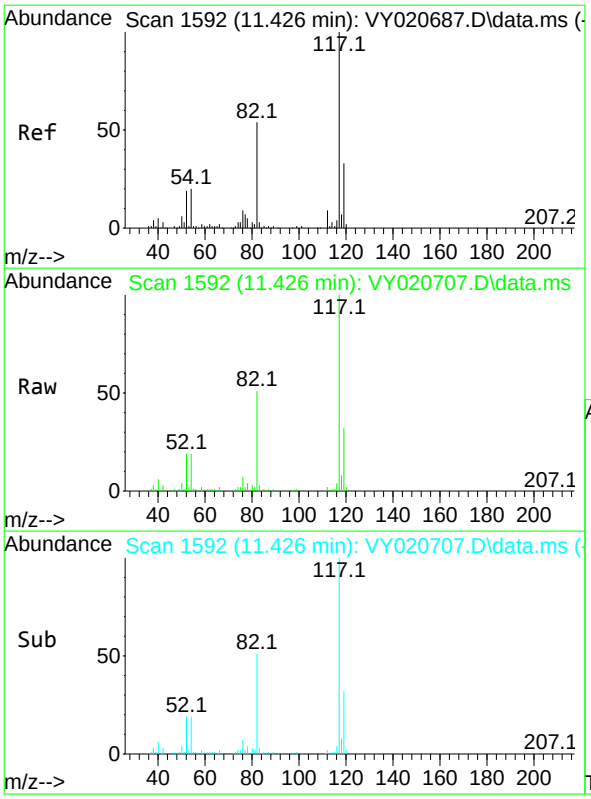



#62
4-Bromofluorobenzene
Concen: 10.336 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 95 Resp: 12144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.5 | 0.0 | 179.2 |
| 176 | 88.1 | 0.0 | 179.8 |

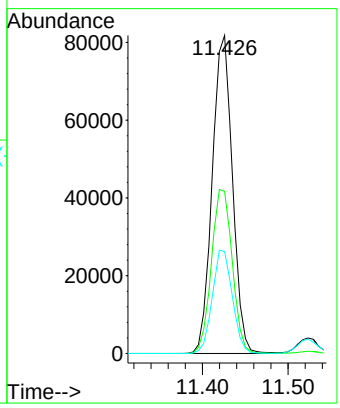





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:117 Resp: 134187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.9 | 43.4 | 65.2 |
| 119 | 32.0 | 26.6 | 39.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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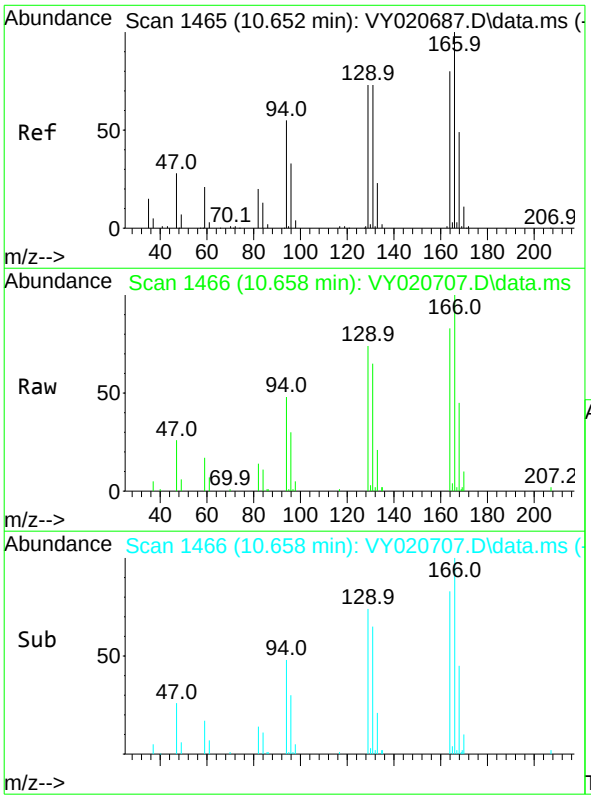
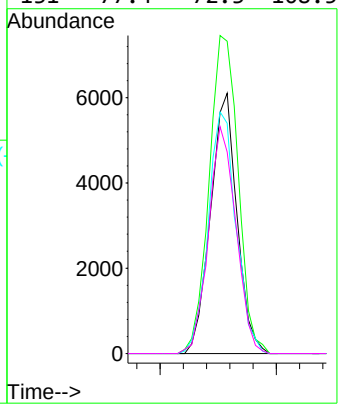
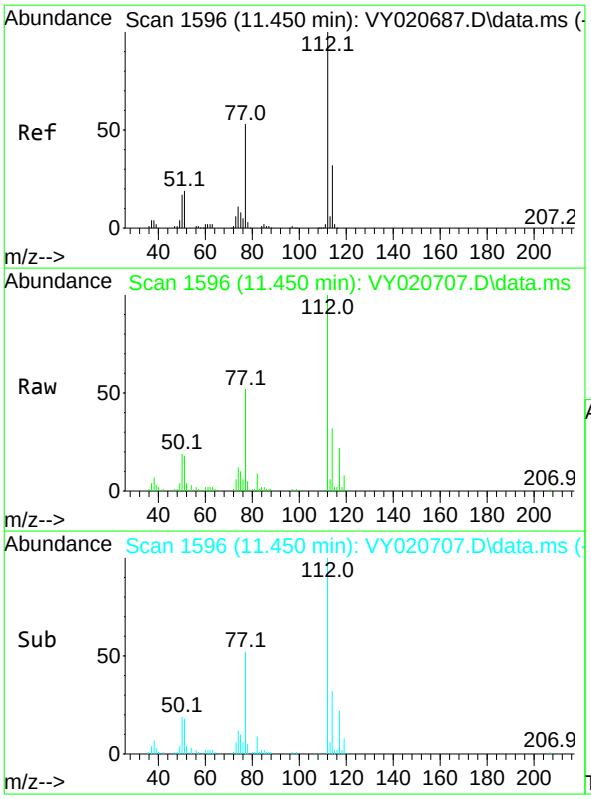



#64
Tetrachloroethene
Concen: 10.530 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:164 Resp: 9654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 120.0 | 99.6 | 149.4 |
| 129 | 88.5 | 73.0 | 109.4 |
| 131 | 77.4 | 72.3 | 108.5 |

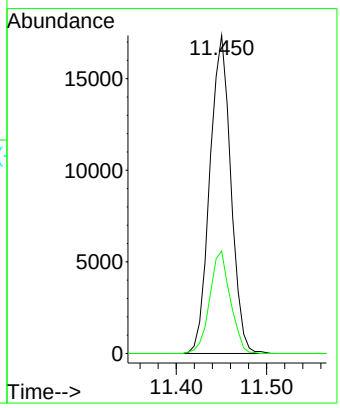





#65
Chlorobenzene
Concen: 10.661 ug/l
RT: 11.450 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:112 Resp: 28012

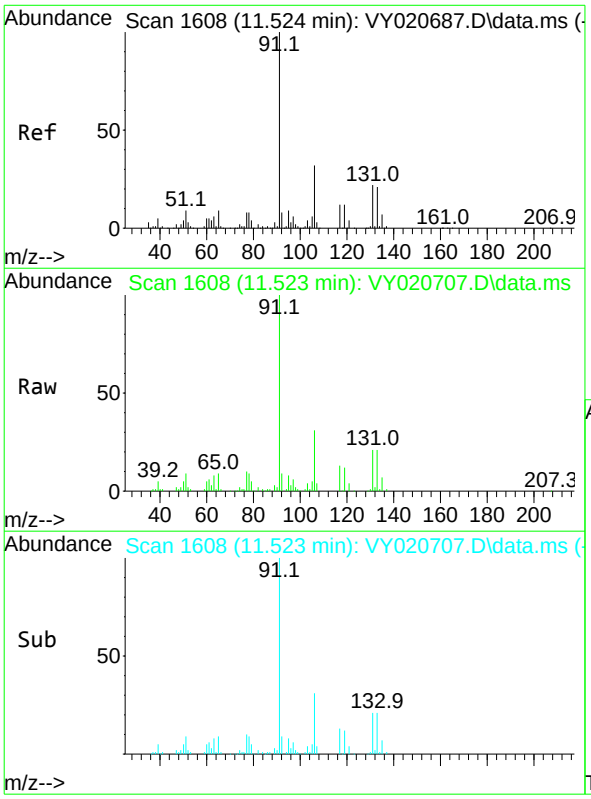
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

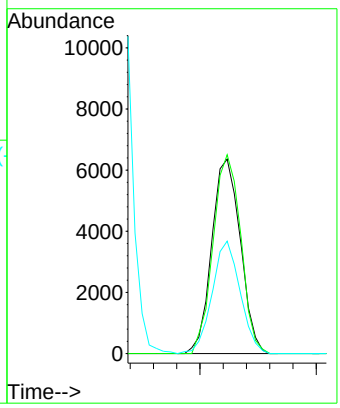
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

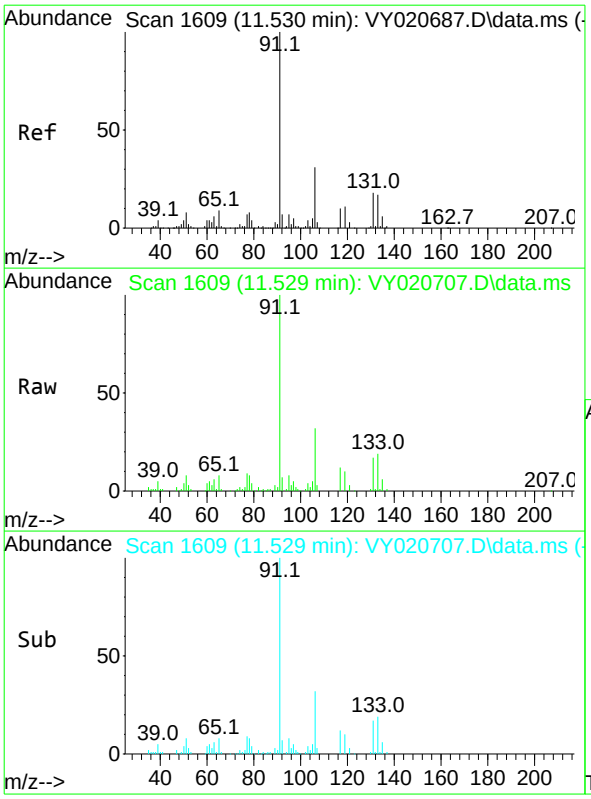



#66
1,1,1,2-Tetrachloroethane
Concen: 10.699 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:131 Resp: 10891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 98.8 | 48.6 | 145.9 |
| 119 | 56.6 | 28.4 | 85.3 |

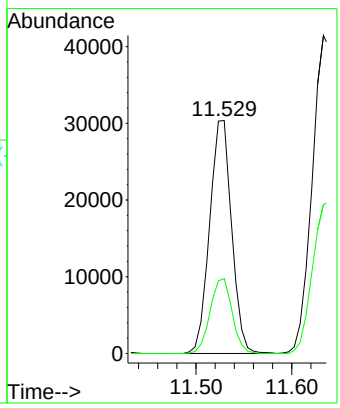





#67
Ethyl Benzene
Concen: 10.575 ug/l
RT: 11.529 min Scan# 16
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 91 Resp: 48565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.2 | 24.5 | 36.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations**
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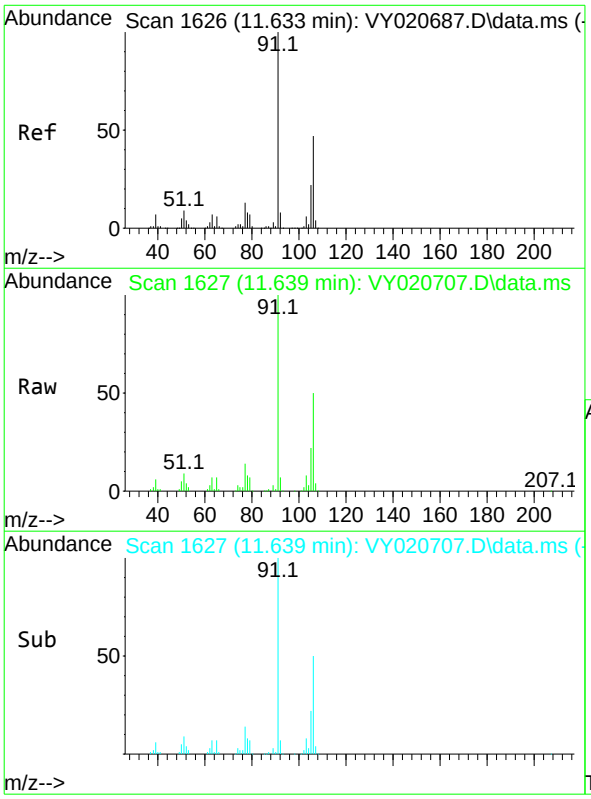
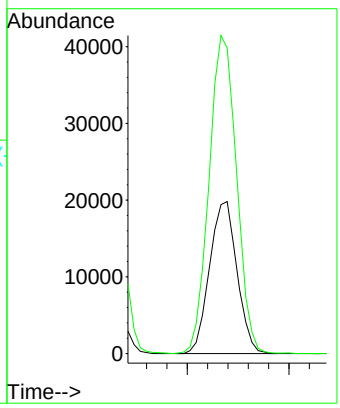
Supervised By :Semsettin Yesilyurt 12/27/2024

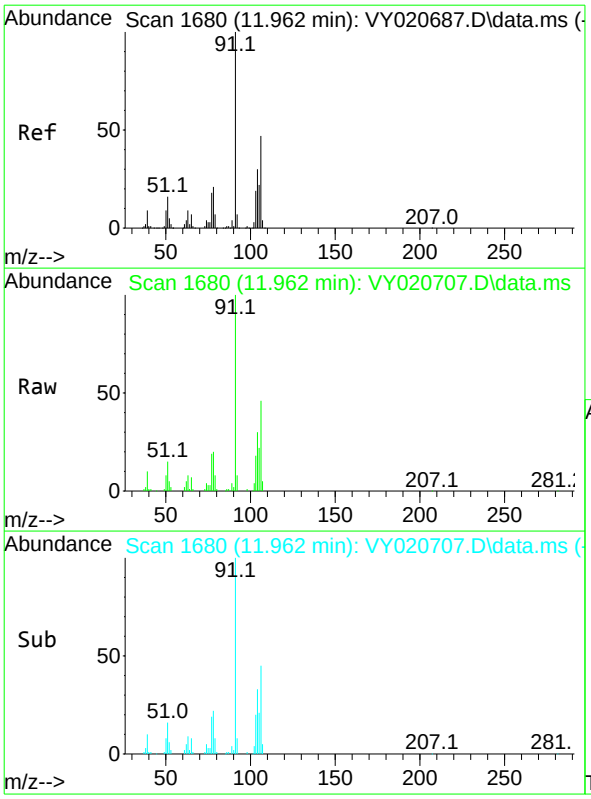



#68
m/p-Xylenes
Concen: 21.184 ug/l
RT: 11.639 min Scan# 1627
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:106 Resp: 37110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.0 | 166.6 | 250.0 |

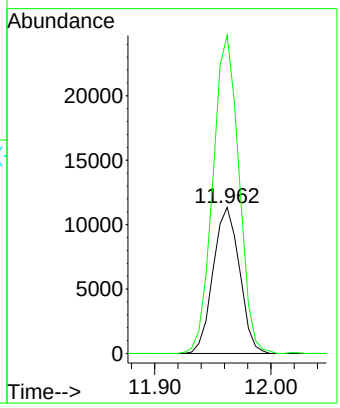





#69
o-Xylene
Concen: 10.682 ug/l
RT: 11.962 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:106 Resp: 17878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.5 | 108.6 | 325.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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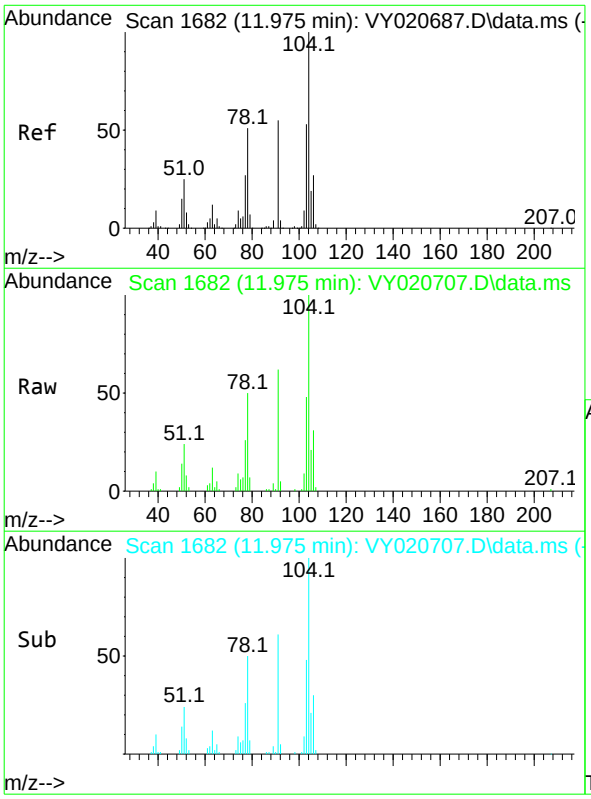
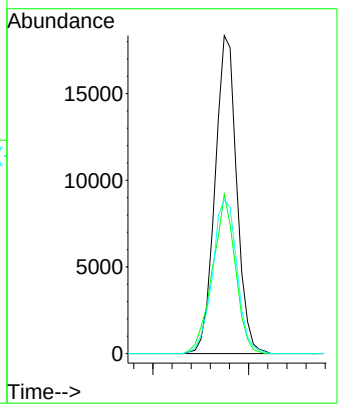
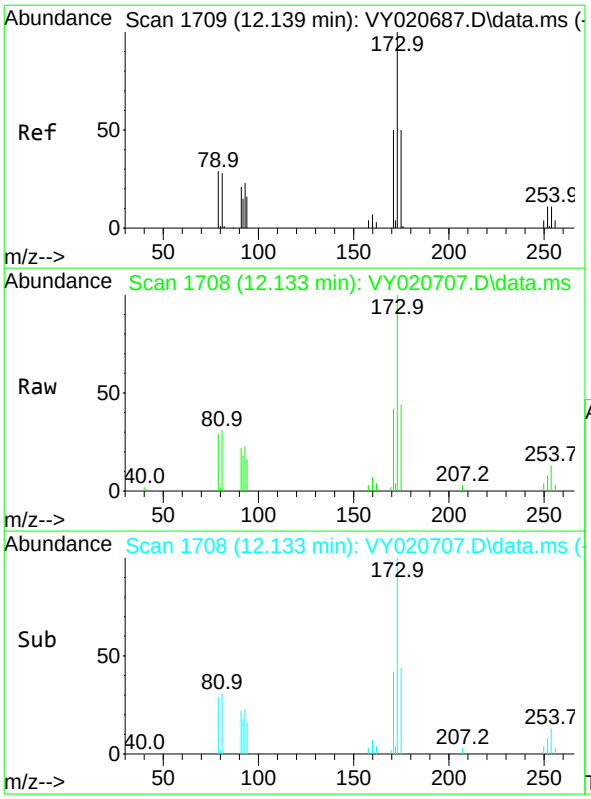



#70
Styrene
Concen: 10.280 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:104 Resp: 28883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.5 | 43.0 | 64.4 |
| 103 | 55.0 | 44.4 | 66.6 |

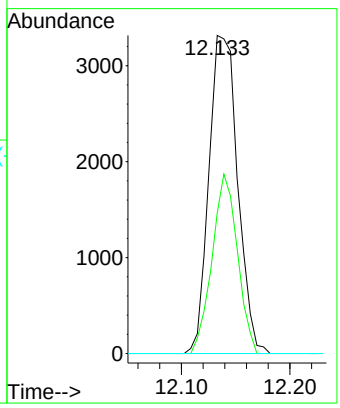





#71
Bromoform
Concen: 10.428 ug/l
RT: 12.133 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:173 Resp: 6103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.6 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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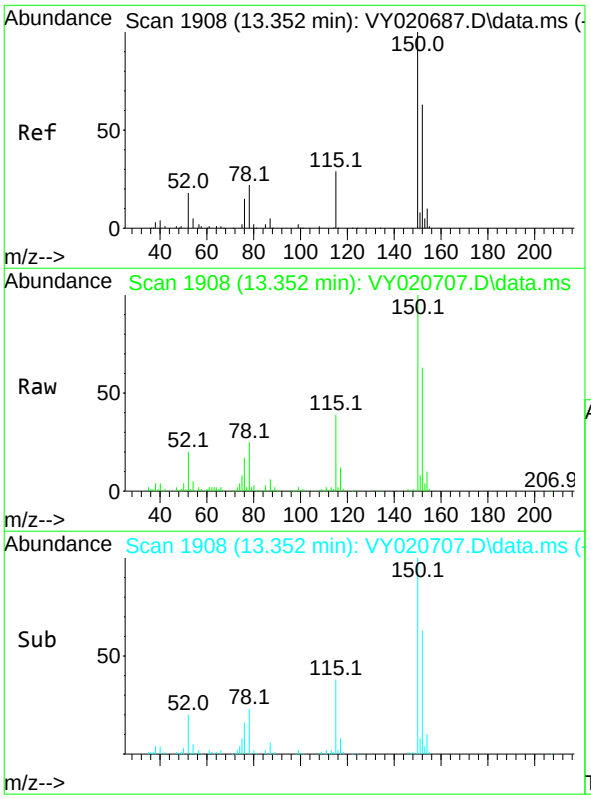
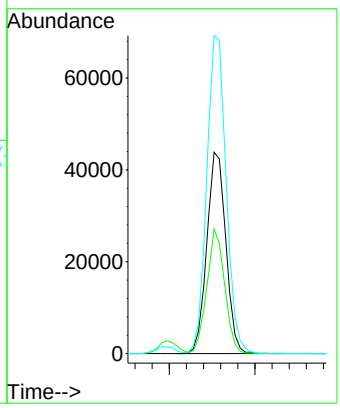
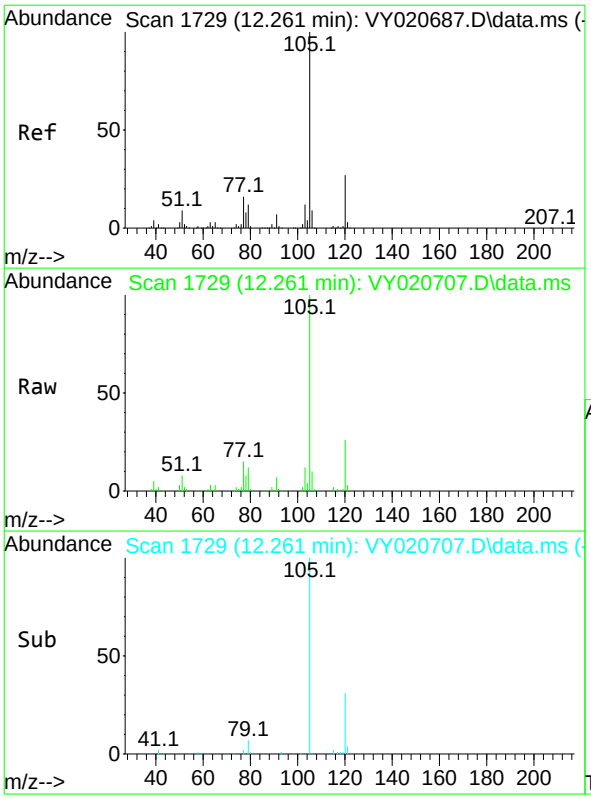



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:152 Resp: 67536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.0 | 30.3 | 90.9 |
| 150 | 161.1 | 0.0 | 349.0 |

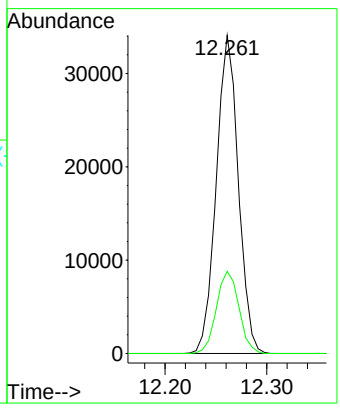





#73
Isopropylbenzene
Concen: 10.973 ug/l
RT: 12.261 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:105 Resp: 51343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.3 | 39.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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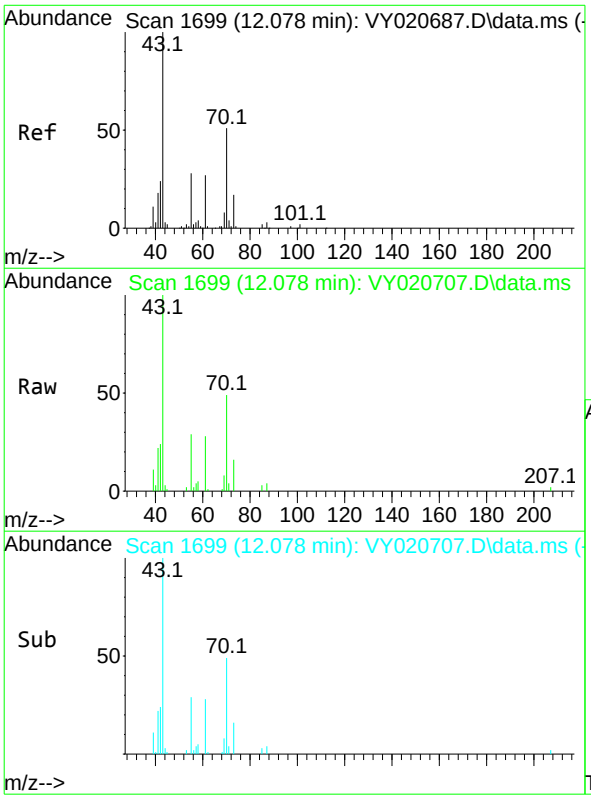
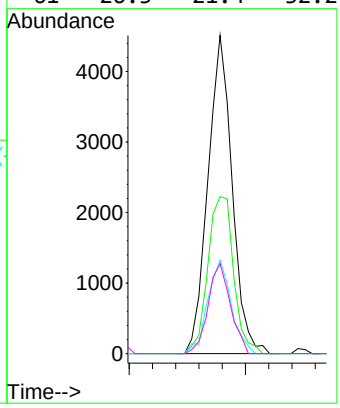
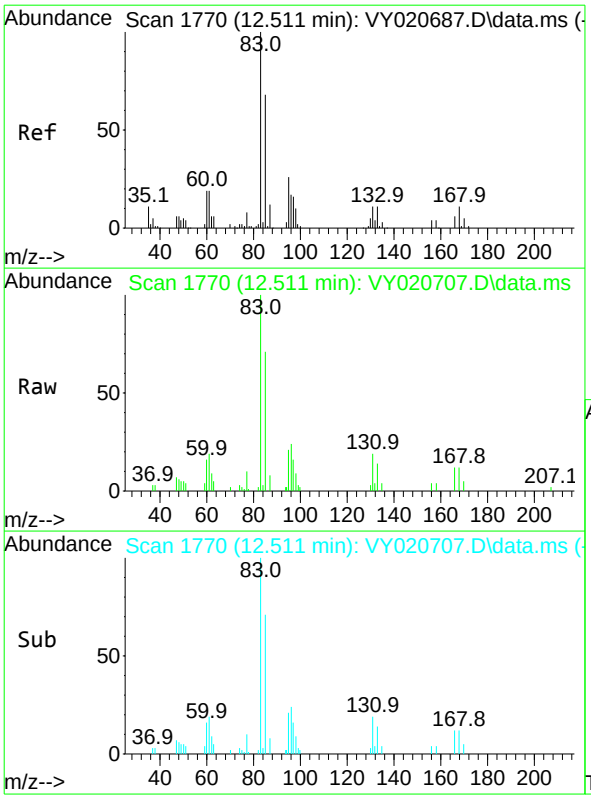



#74
N-amyl acetate
Concen: 9.813 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 6525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 52.6 | 39.7 | 59.5 |
| 55 | 28.7 | 21.5 | 32.3 |
| 61 | 26.3 | 21.4 | 32.2 |

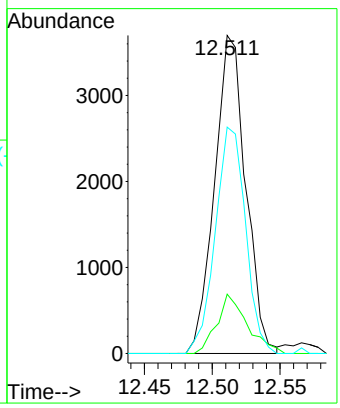





#75
1,1,2,2-Tetrachloroethane
Concen: 9.866 ug/l
RT: 12.511 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 83 Resp: 5918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 18.1 | 6.9 | 20.7 |
| 85 | 69.1 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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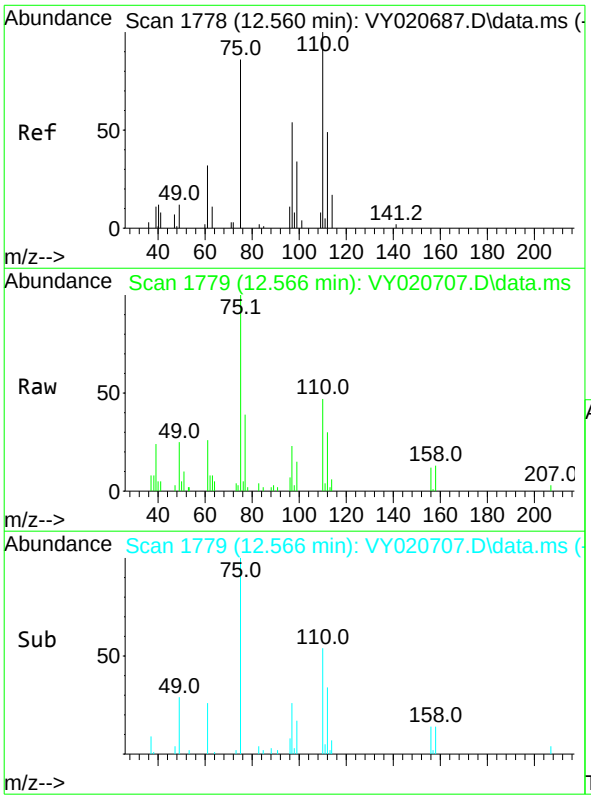
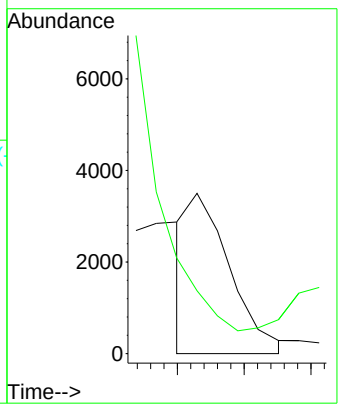
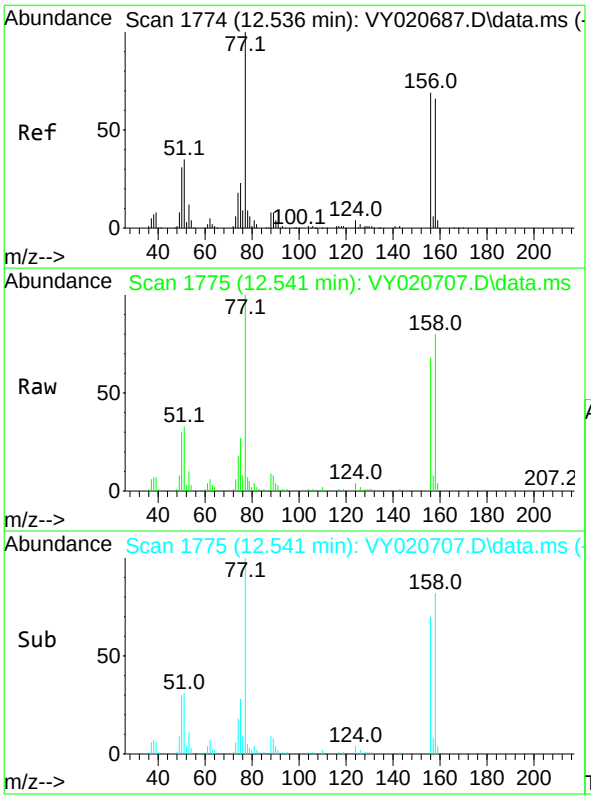



#76
1,2,3-Trichloropropane
Concen: 5.738 ug/l m
RT: 12.566 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 75 Resp: 3057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

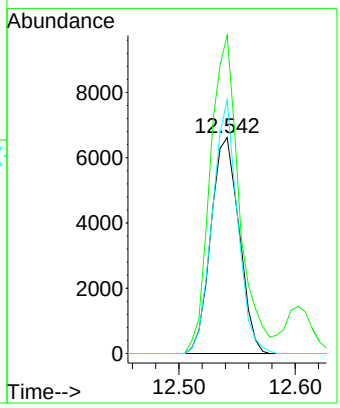





#77
Bromobenzene
Concen: 10.365 ug/l
RT: 12.541 min Scan# 17
Delta R.T. 0.005 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:156 Resp: 11164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 151.2 | 78.3 | 235.0 |
| 158 | 105.0 | 48.3 | 144.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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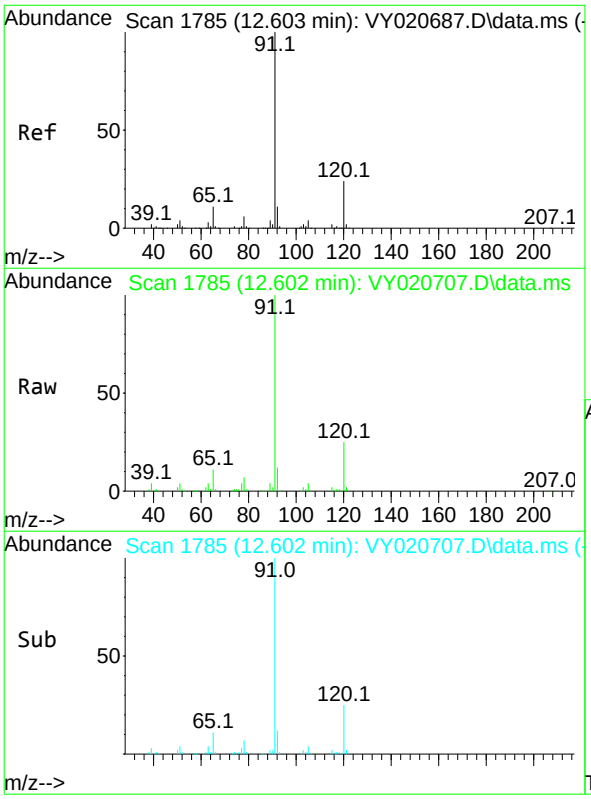
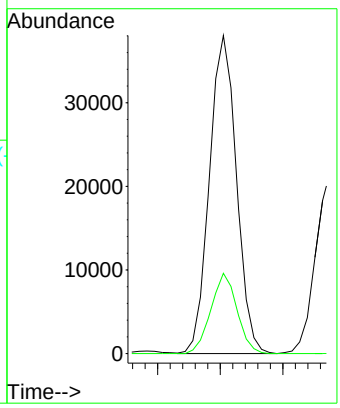
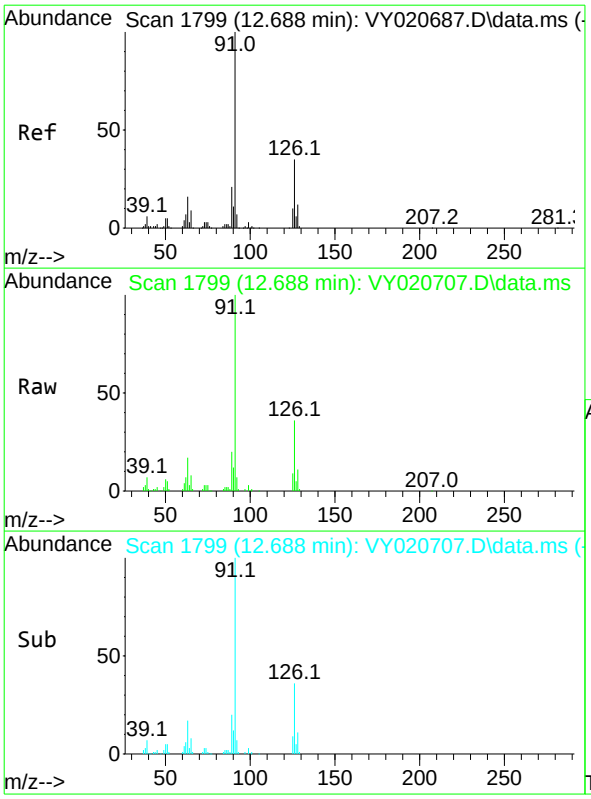



#78
n-propylbenzene
Concen: 10.898 ug/l
RT: 12.602 min Scan# 1785
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 91 Resp: 57154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.4 | 12.3 | 36.8 |

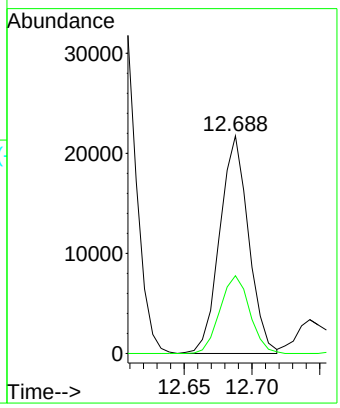





#79
2-Chlorotoluene
Concen: 10.745 ug/l
RT: 12.688 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 91 Resp: 32123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.8 | 17.8 | 53.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

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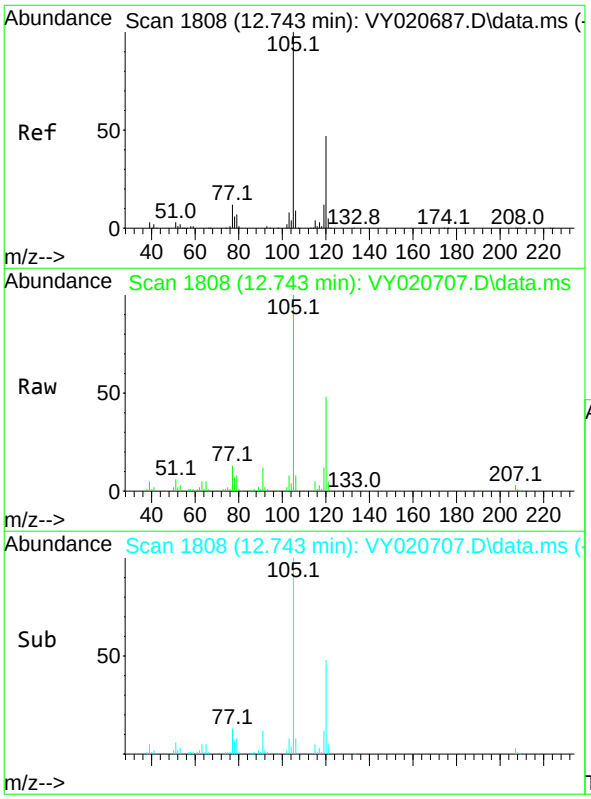
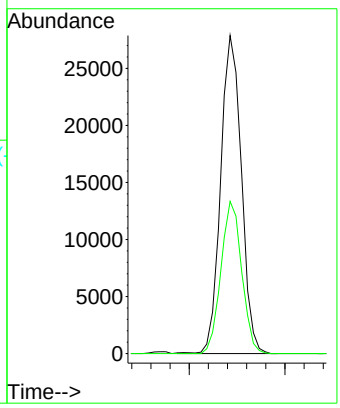
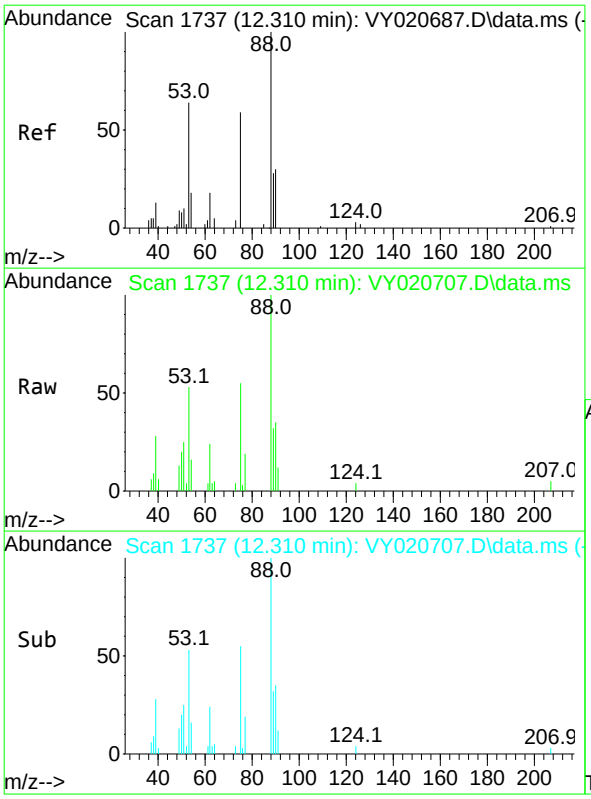



#80
1,3,5-Trimethylbenzene
Concen: 10.746 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:105 Resp: 41891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 9.480 ug/l
RT: 12.310 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 75 Resp: 2060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 112.3 | 83.1 | 124.7 |
| 89 | 55.5 | 40.6 | 61.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

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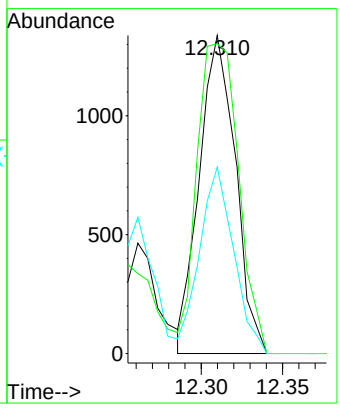
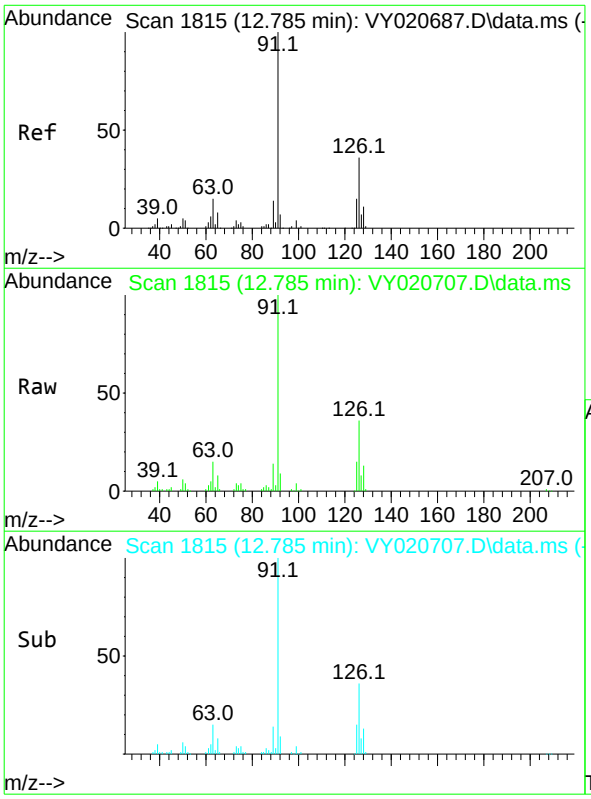
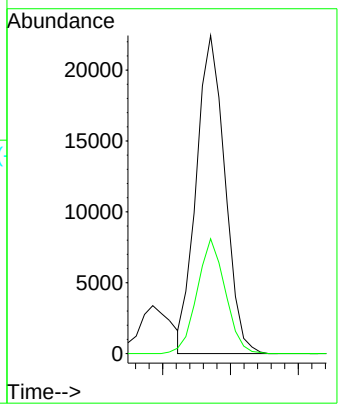


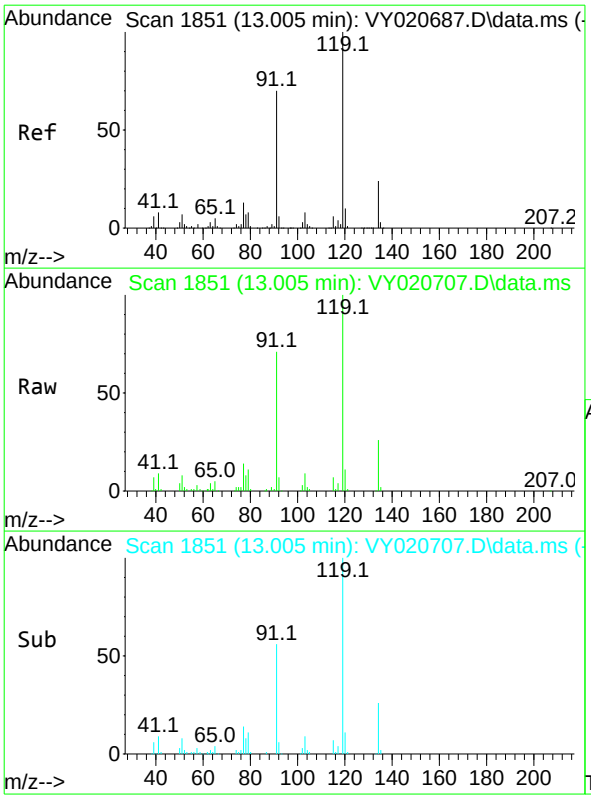




#82
4-Chlorotoluene
Concen: 10.654 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 91 Resp: 32918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.6 | 17.8 | 53.5 |

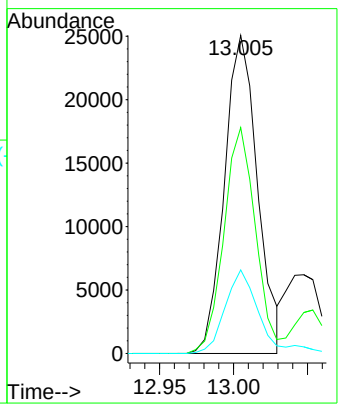





#83
tert-Butylbenzene
Concen: 10.714 ug/l
RT: 13.005 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:119 Resp: 39005

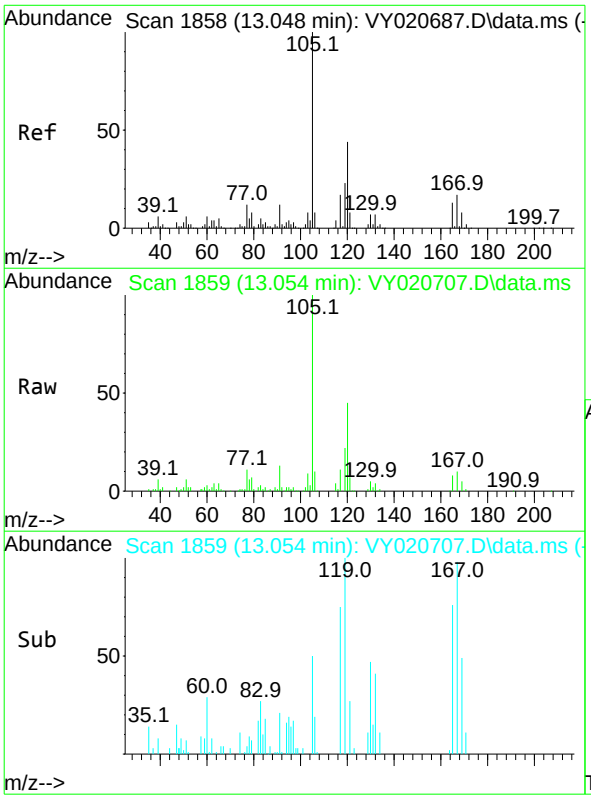
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.5 | 33.6 | 100.8 |
| 134 | 27.2 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

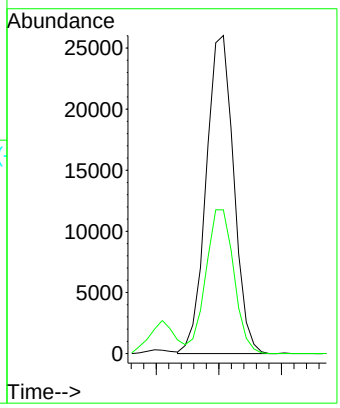
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

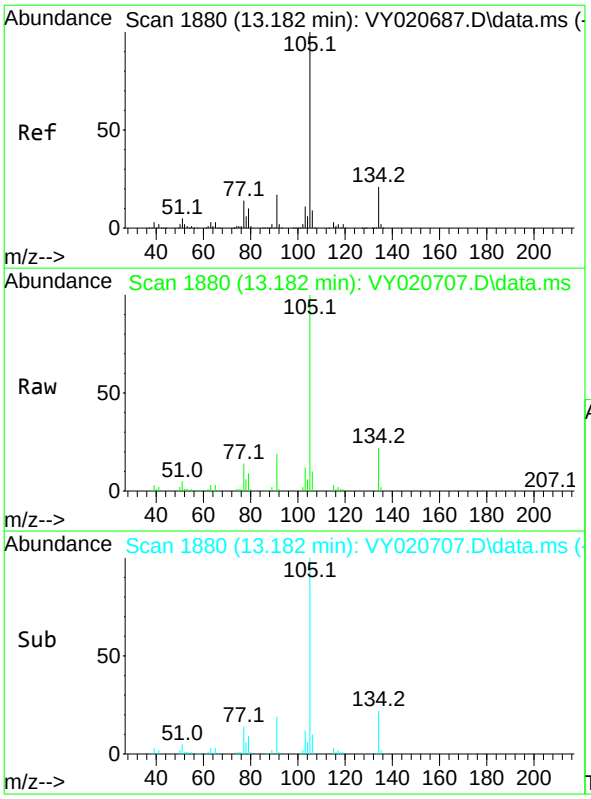



#84
1,2,4-Trimethylbenzene
Concen: 10.489 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:105 Resp: 39791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 21.8 | 65.3 |

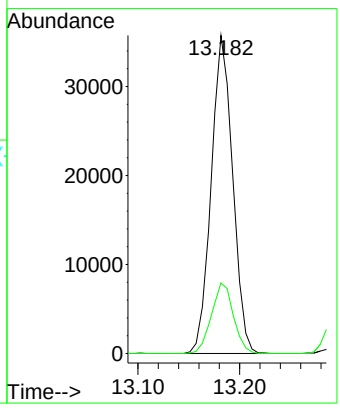





#85
sec-Butylbenzene
Concen: 10.682 ug/l
RT: 13.182 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:105 Resp: 52410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 22.6 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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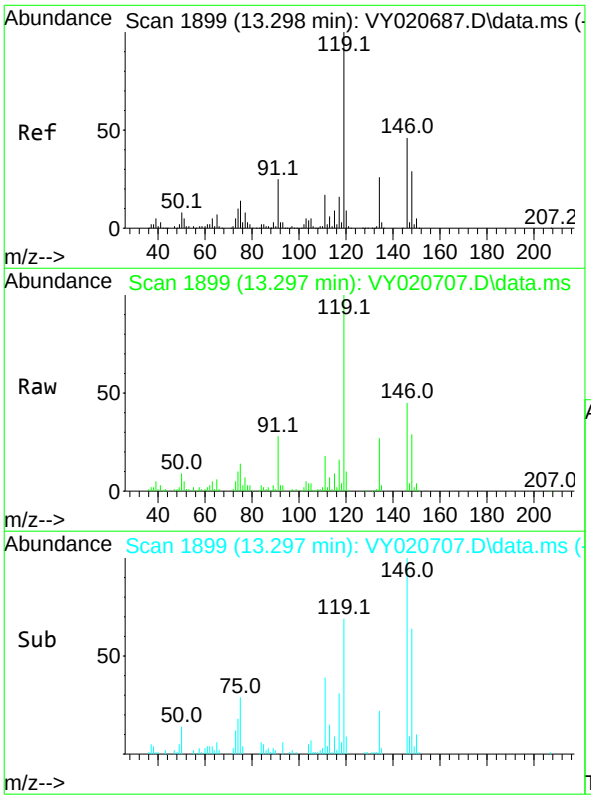
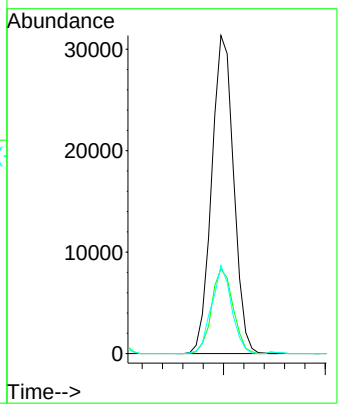
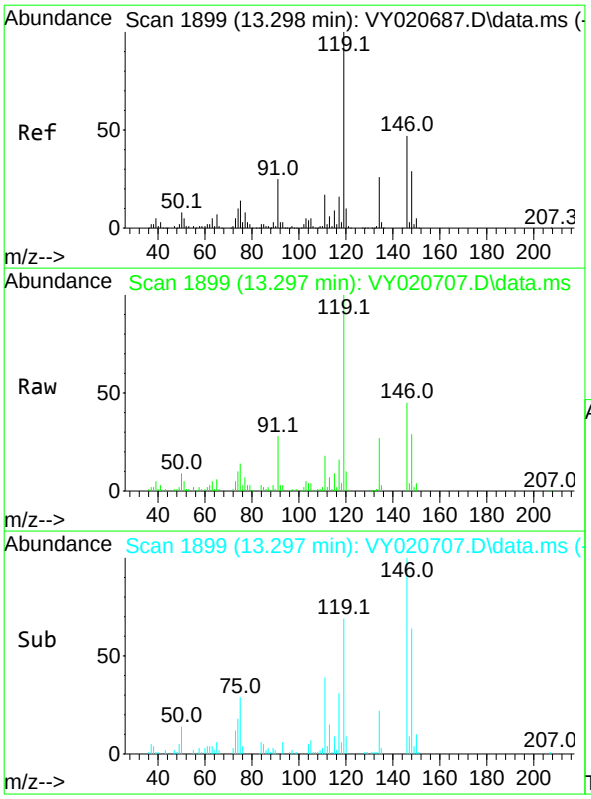



#86
p-Isopropyltoluene
Concen: 10.773 ug/l
RT: 13.297 min Scan# 1899
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:119 Resp: 47106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 13.4 | 40.2 |
| 91 | 25.2 | 12.9 | 38.6 |

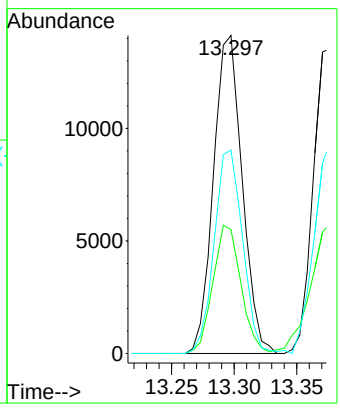





#87
1,3-Dichlorobenzene
Concen: 10.715 ug/l
RT: 13.297 min Scan# 18
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:146 Resp: 22556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.4 | 19.3 | 57.8 |
| 148 | 63.2 | 31.1 | 93.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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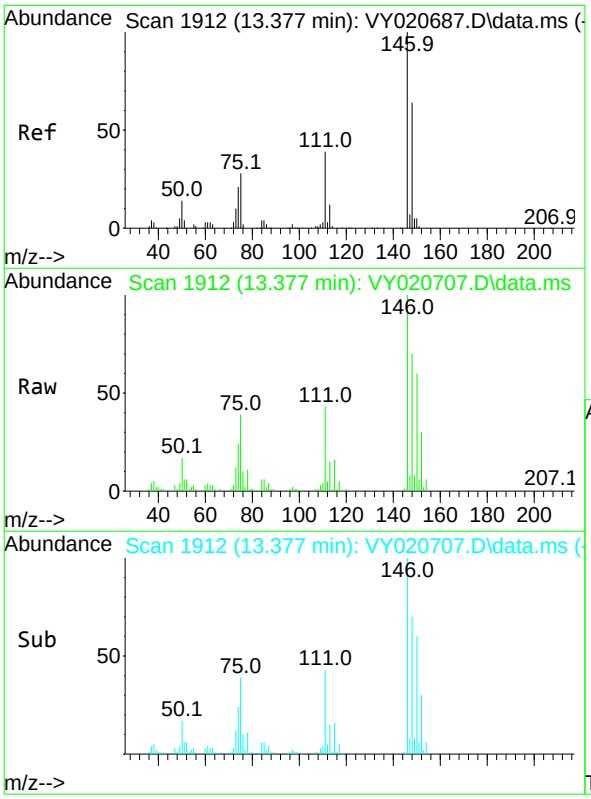
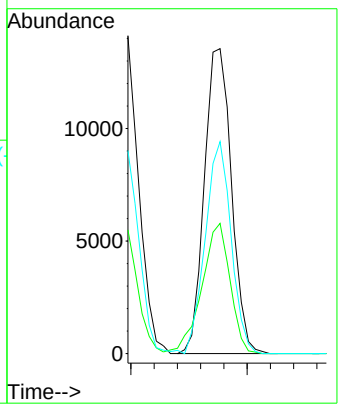
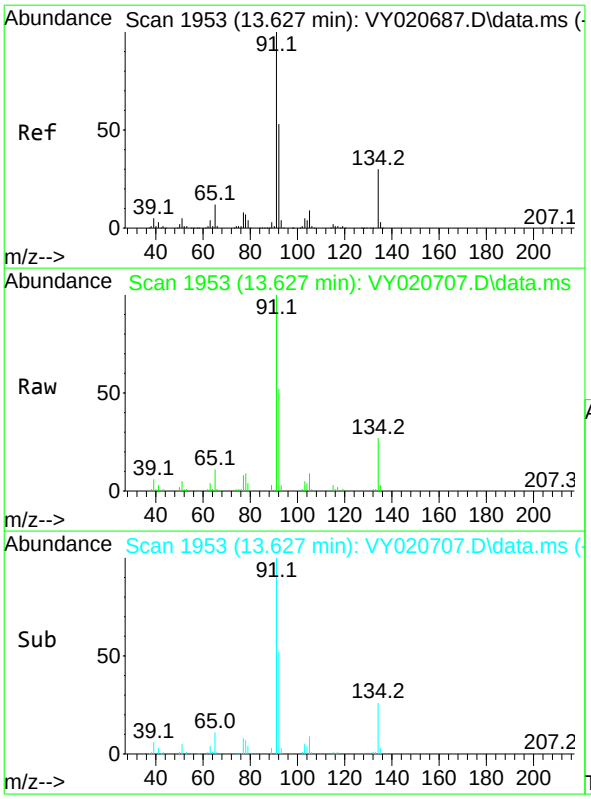



#88
1,4-Dichlorobenzene
Concen: 10.480 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:146 Resp: 21947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.6 | 19.7 | 59.0 |
| 148 | 66.7 | 32.8 | 98.3 |

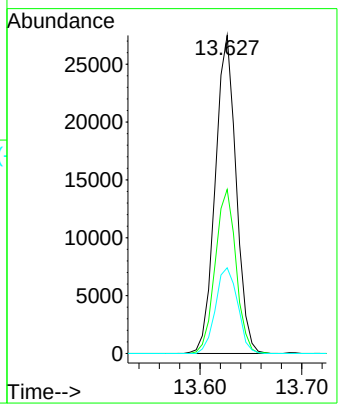





#89
n-Butylbenzene
Concen: 10.710 ug/l
RT: 13.627 min Scan# 19
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 91 Resp: 39091

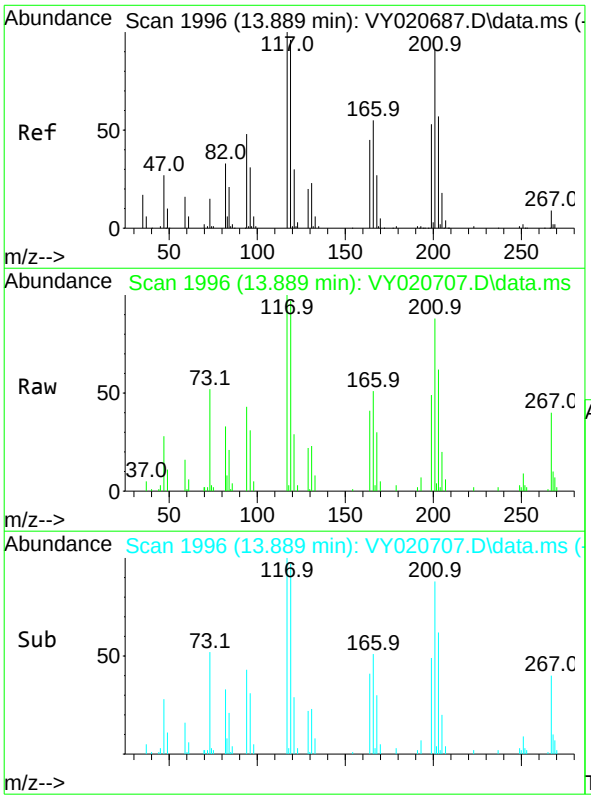
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.4 | 26.1 | 78.2 |
| 134 | 28.6 | 14.8 | 44.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

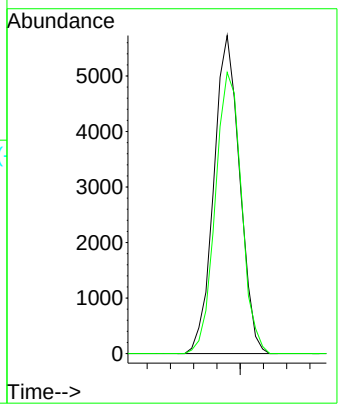
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

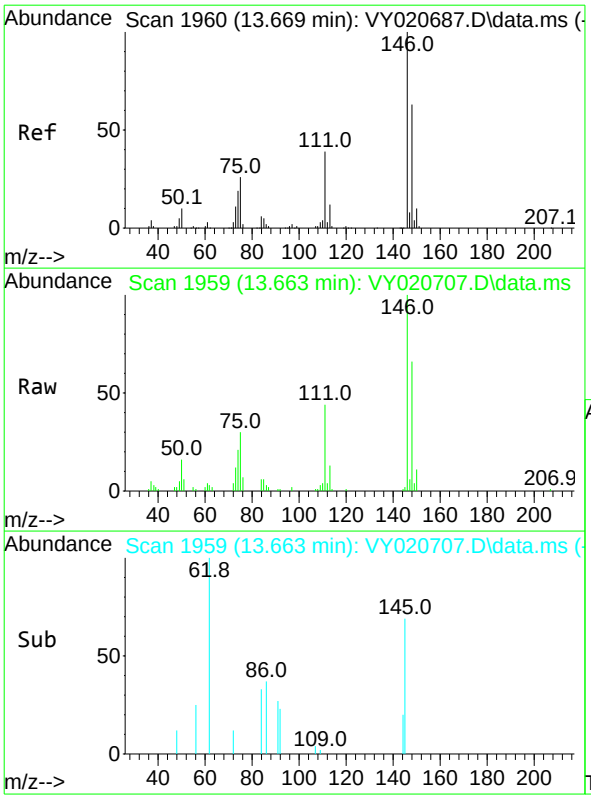



#90
Hexachloroethane
Concen: 10.680 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:117 Resp: 8880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 89.0 | 44.9 | 134.7 |

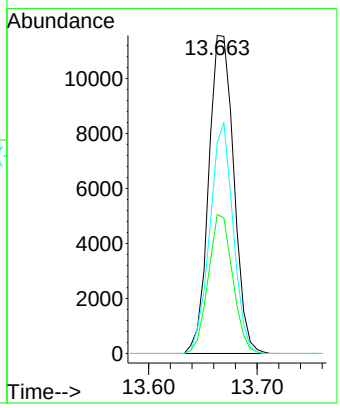





#91
1,2-Dichlorobenzene
Concen: 10.279 ug/l
RT: 13.663 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:146 Resp: 18554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.6 | 20.3 | 60.8 |
| 148 | 67.5 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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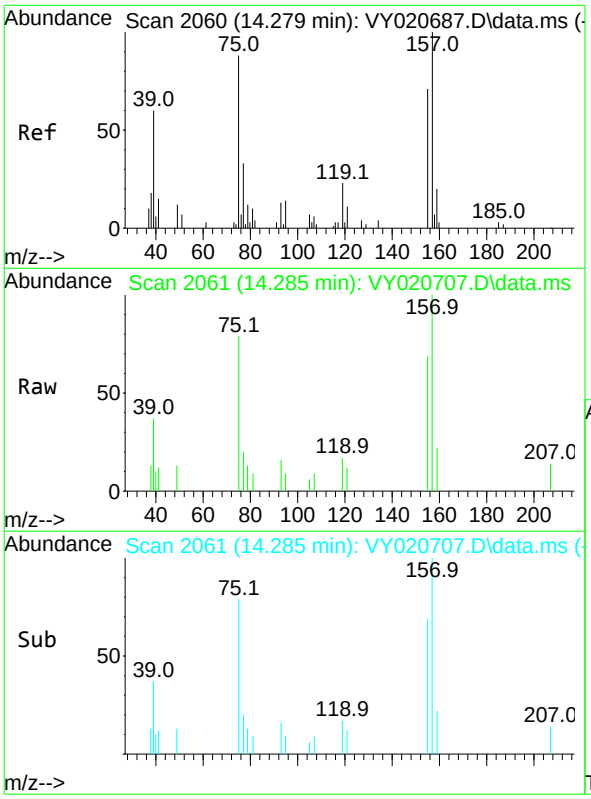
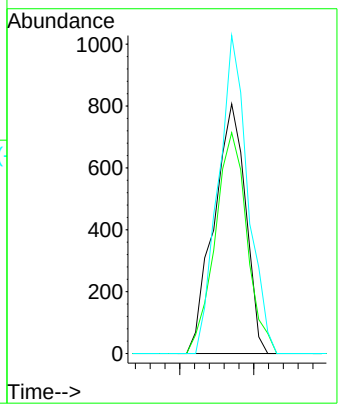
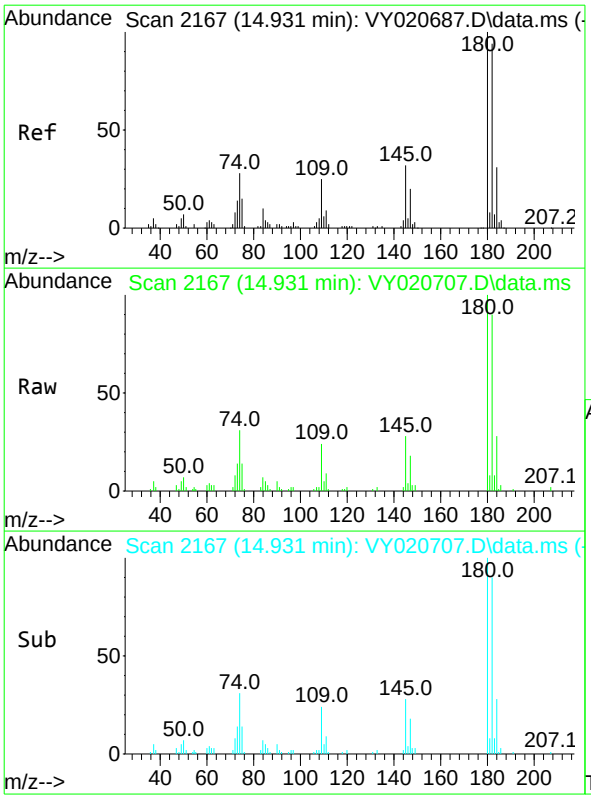



#92
1,2-Dibromo-3-Chloropropane
Concen: 10.298 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 75 Resp: 1198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 89.3 | 43.4 | 130.2 |
| 157 | 118.9 | 58.6 | 175.7 |

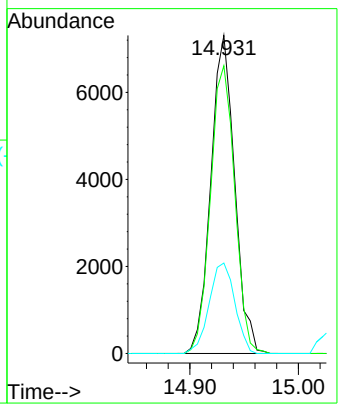





#93
1,2,4-Trichlorobenzene
Concen: 9.721 ug/l
RT: 14.931 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:180 Resp: 11153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.1 | 47.9 | 143.7 |
| 145 | 30.7 | 15.6 | 46.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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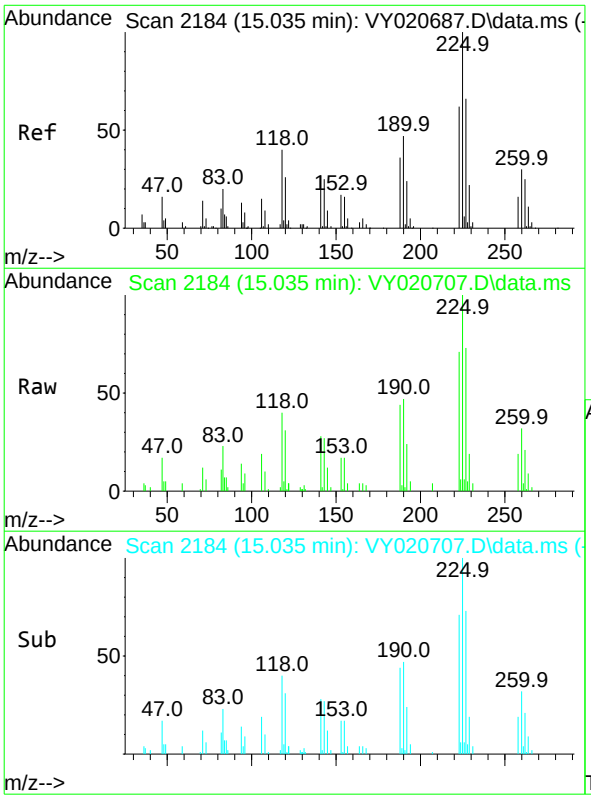
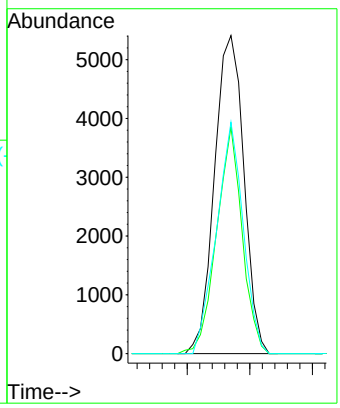
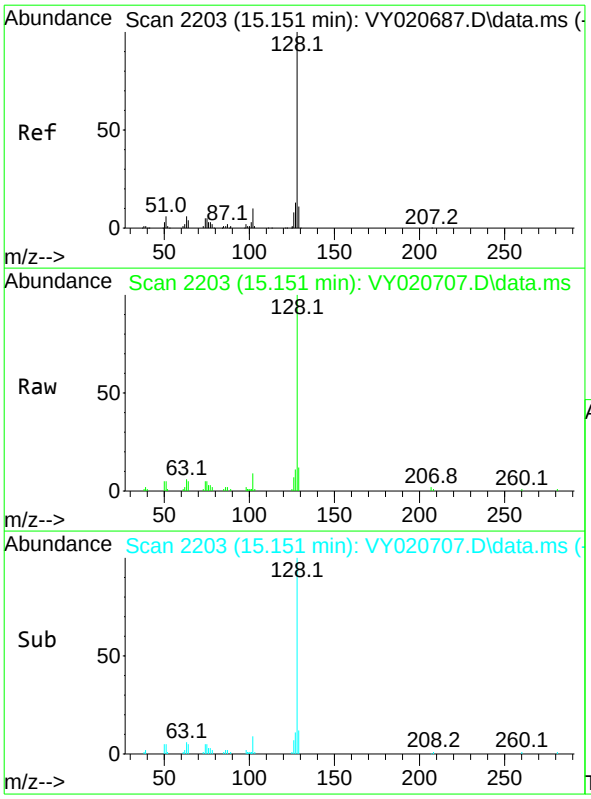



#94
Hexachlorobutadiene
Concen: 10.534 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:225 Resp: 8808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.3 | 93.8 |
| 227 | 66.4 | 32.1 | 96.5 |

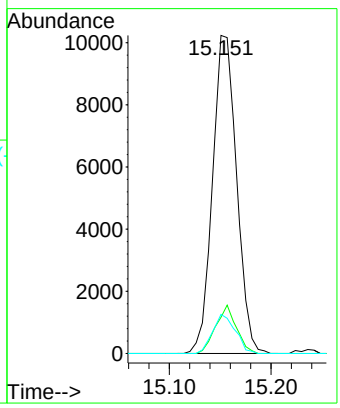





#95
Naphthalene
Concen: 9.174 ug/l
RT: 15.151 min Scan# 22
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:128 Resp: 16857

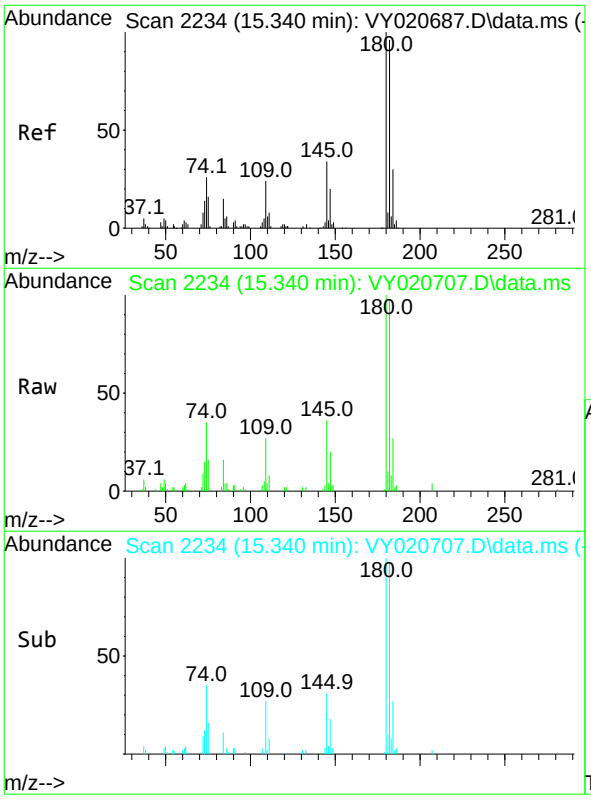
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.7 | 16.1 |
| 129 | 11.6 | 8.6 | 12.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

**Manual Integrations APPROVED**

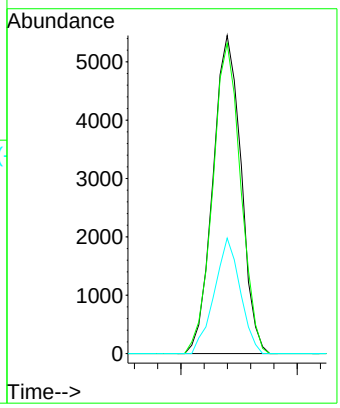
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024




#96
1,2,3-Trichlorobenzene
Concen: 9.584 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:180 Resp: 9155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.0 | 47.4 | 142.2 |
| 145 | 33.4 | 16.7 | 50.1 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020708.D
Acq On : 26 Dec 2024 10:16
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:05:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 124056 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 173311 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 146011 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 74311 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 15547 | 15.300 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 30.600%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 16110 | 16.876 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 33.760%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 50794 | 14.644 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 29.280%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 22093 | 17.414 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 34.820% | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 18601 | 19.049 | ug/l | | 92 |
| 3) Chloromethane | 2.074 | 50 | 6487 | 17.813 | ug/l | | 96 |
| 4) Vinyl Chloride | 2.214 | 62 | 8742 | 19.375 | ug/l | | 98 |
| 5) Bromomethane | 2.611 | 94 | 6370 | 18.699 | ug/l | | 96 |
| 6) Chloroethane | 2.745 | 64 | 5058 | 18.687 | ug/l | | 96 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 34026 | 19.610 | ug/l | | 99 |
| 8) Diethyl Ether | 3.470 | 74 | 7737 | 18.739 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 18742 | 19.675 | ug/l | | 97 |
| 10) Methyl Iodide | 4.019 | 142 | 19652 | 18.866 | ug/l | | 99 |
| 11) Tert butyl alcohol | 4.897 | 59 | 6567 | 90.235 | ug/l | # | 88 |
| 12) 1,1-Dichloroethene | 3.806 | 96 | 16374 | 19.312 | ug/l | | 93 |
| 13) Acrolein | 3.665 | 56 | 2867 | 134.971 | ug/l | | 94 |
| 14) Allyl chloride | 4.403 | 41 | 19316 | 19.468 | ug/l | | 96 |
| 15) Acrylonitrile | 5.074 | 53 | 14919 | 93.535 | ug/l | | 99 |
| 16) Acetone | 3.885 | 43 | 11272 | 87.443 | ug/l | | 99 |
| 17) Carbon Disulfide | 4.123 | 76 | 38140 | 18.338 | ug/l | | 96 |
| 18) Methyl Acetate | 4.403 | 43 | 6527 | 18.708 | ug/l | | 93 |
| 19) Methyl tert-butyl Ether | 5.135 | 73 | 45739 | 19.355 | ug/l | | 97 |
| 20) Methylene Chloride | 4.629 | 84 | 16287 | 19.426 | ug/l | | 87 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 17672 | 19.342 | ug/l | | 96 |
| 22) Diisopropyl ether | 6.031 | 45 | 39891 | 19.778 | ug/l | | 97 |
| 23) Vinyl Acetate | 5.976 | 43 | 116269 | 96.512 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 5.939 | 63 | 29556 | 19.545 | ug/l | | 98 |
| 25) 2-Butanone | 6.903 | 43 | 16336 | 93.814 | ug/l | | 95 |
| 26) 2,2-Dichloropropane | 6.903 | 77 | 35847 | 19.368 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 6.909 | 96 | 21139 | 19.320 | ug/l | | 98 |
| 28) Bromochloromethane | 7.256 | 49 | 6388 | 15.974 | ug/l | | 93 |
| 29) Tetrahydrofuran | 7.274 | 42 | 9908 | 92.698 | ug/l | | 94 |
| 30) Chloroform | 7.433 | 83 | 37350 | 19.200 | ug/l | | 97 |
| 31) Cyclohexane | 7.720 | 56 | 24456 | 18.736 | ug/l | # | 95 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 40987 | 19.656 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 24262 | 19.240 | ug/l | | 98 |
| 37) Ethyl Acetate | 6.994 | 43 | 8299 | 19.972 | ug/l | | 96 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 40302 | 19.409 | ug/l | | 96 |
| 39) Methylcyclohexane | 9.116 | 83 | 32007 | 19.803 | ug/l | | 94 |
| 40) Benzene | 8.091 | 78 | 72108 | 19.731 | ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020708.D
Acq On : 26 Dec 2024 10:16
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Dec 26 16:05:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 4661 | 22.206 ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.171 | 62 | 22531 | 19.227 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 16635 | 18.834 ug/l | | 98 |
| 44) Trichloroethene | 8.878 | 130 | 21859 | 20.026 ug/l | | 88 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 14245 | 19.256 ug/l | | 92 |
| 46) Dibromomethane | 9.238 | 93 | 9719 | 18.988 ug/l | | 97 |
| 47) Bromodichloromethane | 9.433 | 83 | 28737 | 19.803 ug/l | | 96 |
| 48) Methyl methacrylate | 9.225 | 41 | 7787 | 18.879 ug/l | | 99 |
| 49) 1,4-Dioxane | 9.238 | 88 | 1825 | 374.309 ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 40592 | 95.218 ug/l | | 99 |
| 52) Toluene | 10.176 | 92 | 50060 | 19.986 ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 24428 | 19.166 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 27417 | 19.625 ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 12886 | 19.722 ug/l | | 94 |
| 56) Ethyl methacrylate | 10.445 | 69 | 16830 | 19.607 ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 20740 | 19.558 ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 27533 | 91.985 ug/l | | 99 |
| 59) 2-Hexanone | 10.768 | 43 | 27109 | 96.312 ug/l | | 100 |
| 60) Dibromochloromethane | 10.920 | 129 | 20354 | 19.279 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 12098 | 19.678 ug/l | | 97 |
| 64) Tetrachloroethene | 10.658 | 164 | 20307 | 20.357 ug/l | | 97 |
| 65) Chlorobenzene | 11.451 | 112 | 56993 | 19.935 ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 21420 | 19.338 ug/l | | 96 |
| 67) Ethyl Benzene | 11.524 | 91 | 100148 | 20.042 ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 75856 | 39.796 ug/l | | 99 |
| 69) o-Xylene | 11.963 | 106 | 37301 | 20.482 ug/l | | 96 |
| 70) Styrene | 11.975 | 104 | 61946 | 20.262 ug/l | | 98 |
| 71) Bromoform | 12.139 | 173 | 12354 | 19.400 ug/l | # | 96 |
| 73) Isopropylbenzene | 12.261 | 105 | 104274 | 20.254 ug/l | | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 14154 | 19.346 ug/l | | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 13030 | 19.742 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 10691m | 18.239 ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 23151 | 19.534 ug/l | | 98 |
| 78) n-propylbenzene | 12.603 | 91 | 118053 | 20.458 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 66234 | 20.135 ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 86460 | 20.157 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 4620 | 19.322 ug/l | | 91 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 68187 | 20.057 ug/l | | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 81757 | 20.410 ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 85025 | 20.370 ug/l | | 97 |
| 85) sec-Butylbenzene | 13.182 | 105 | 110869 | 20.536 ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 97722 | 20.311 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 46587 | 20.113 ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 46439 | 20.154 ug/l | | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 82147 | 20.454 ug/l | | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 17856 | 19.517 ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 40471 | 20.378 ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 2548 | 19.905 ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 24098 | 19.089 ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 18082 | 19.654 ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 38351 | 18.968 ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 20167 | 19.187 ug/l | | 98 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020708.D
Acq On : 26 Dec 2024 10:16
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:05:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

ICAL Form

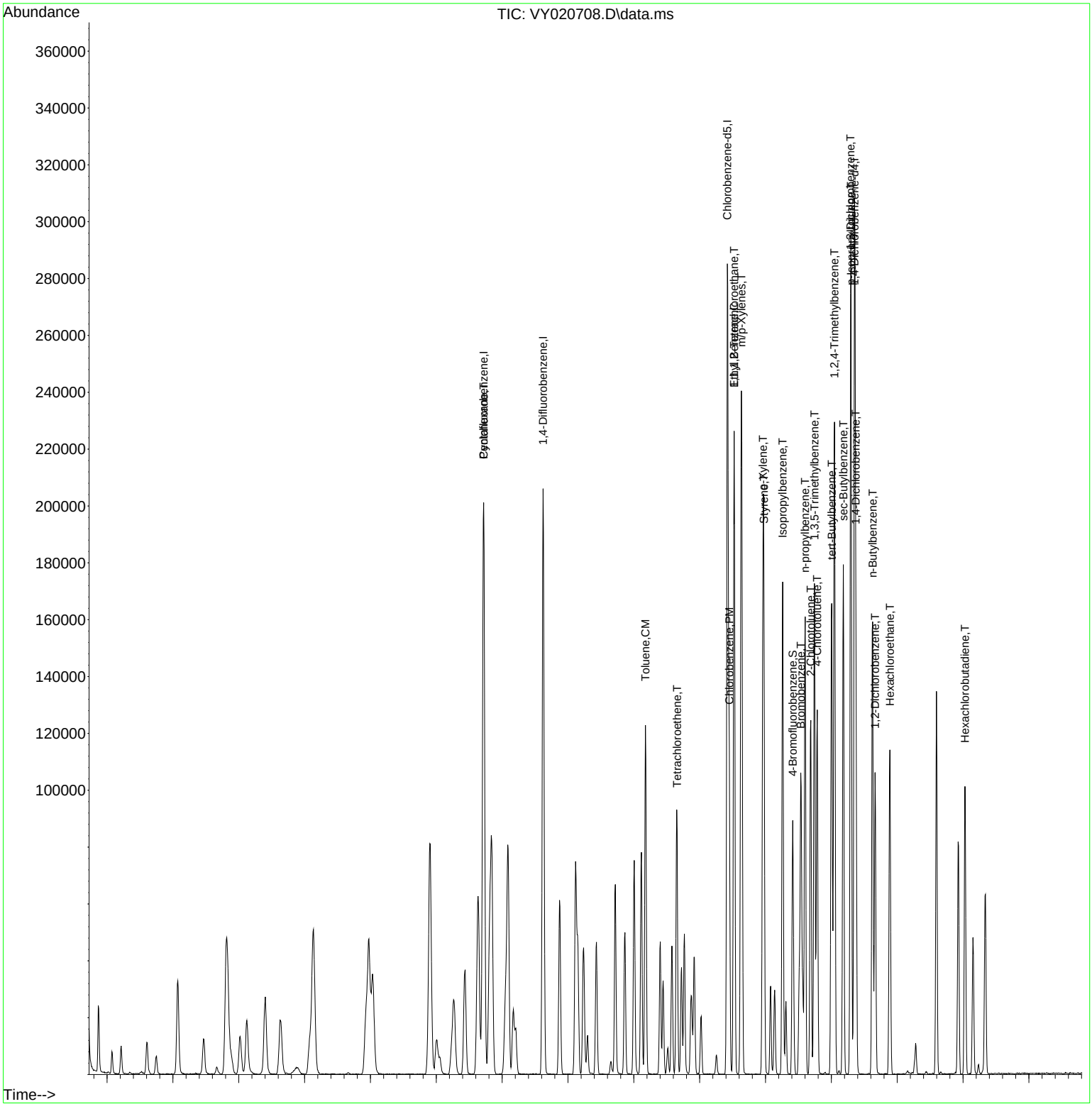
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020708.D
Acq On : 26 Dec 2024 10:16
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

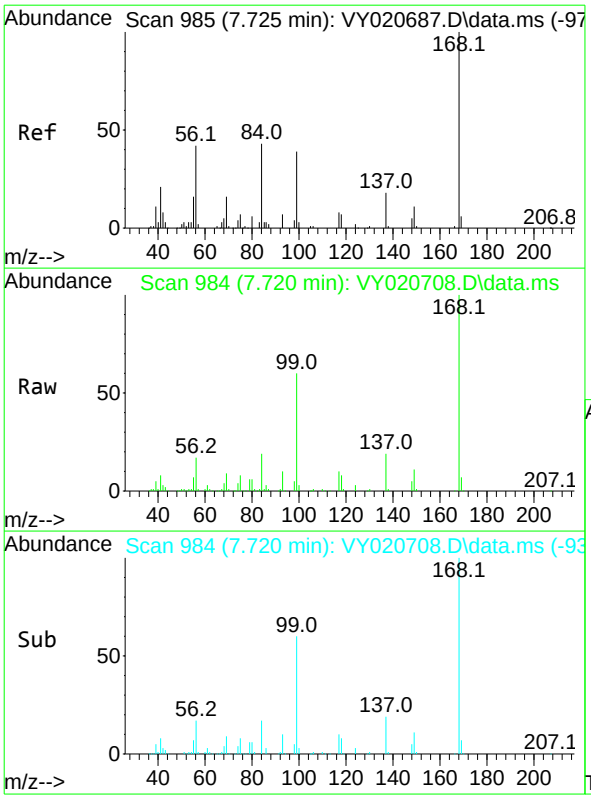
Quant Time: Dec 26 16:05:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

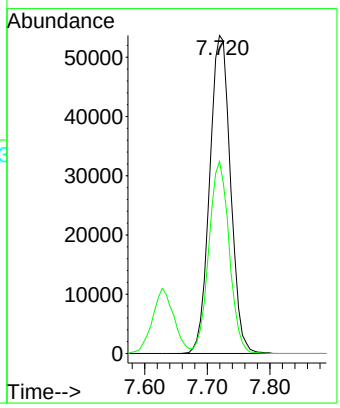





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 98
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:168 Resp: 124056

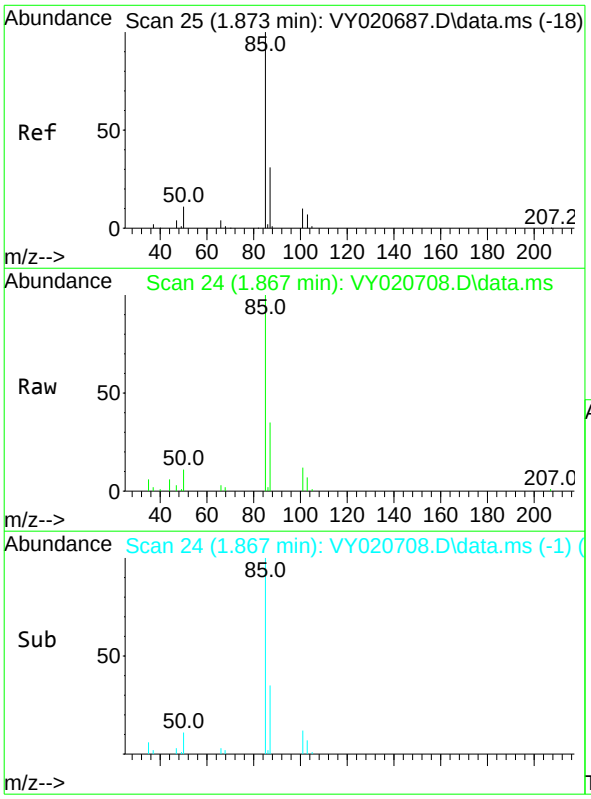
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.4 | 43.8 | 65.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

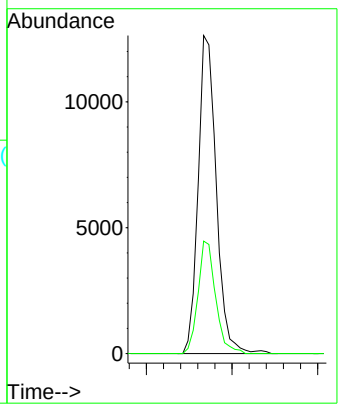
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

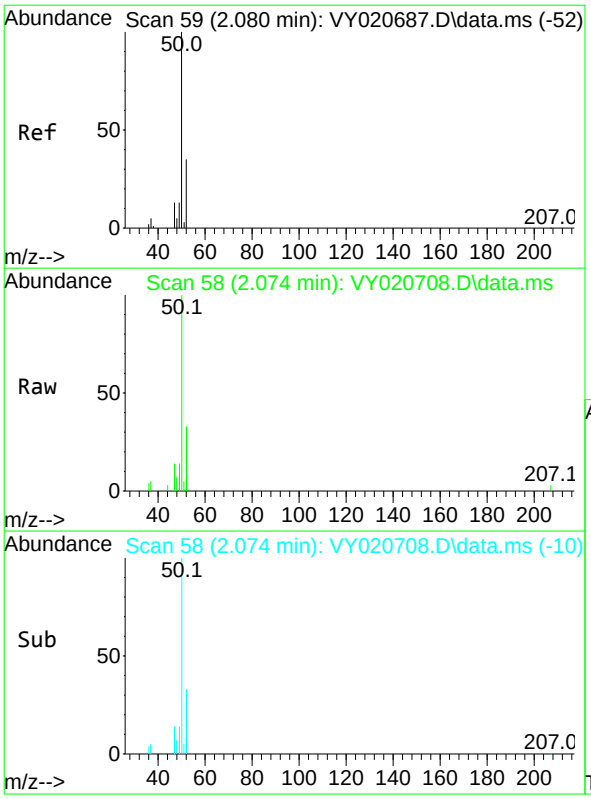



#2
Dichlorodifluoromethane
Concen: 19.049 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 85 Resp: 18601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 35.4 | 15.4 | 46.4 |

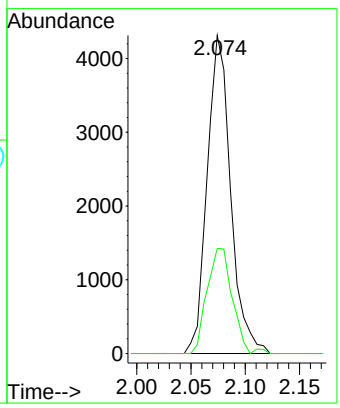





#3
Chloromethane
Concen: 17.813 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 50 Resp: 6487

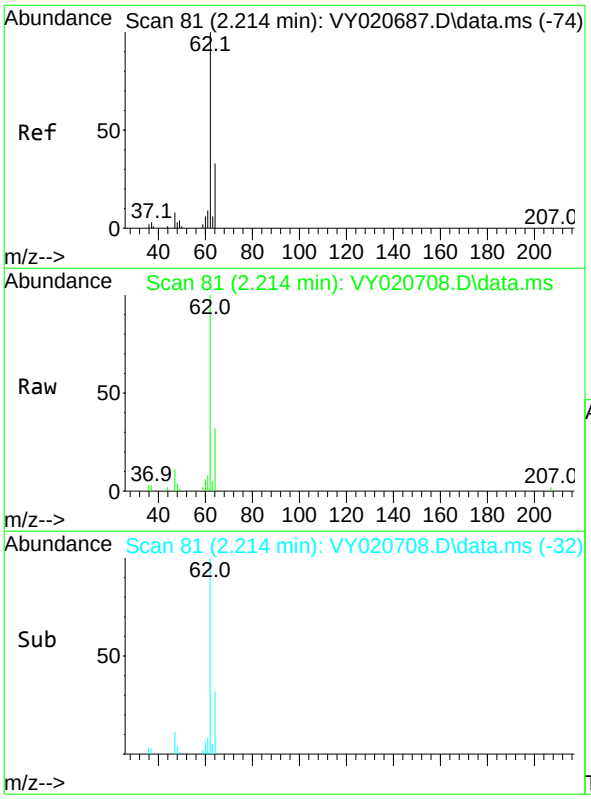
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 28.2 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

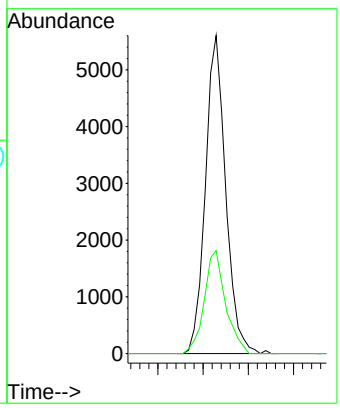
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

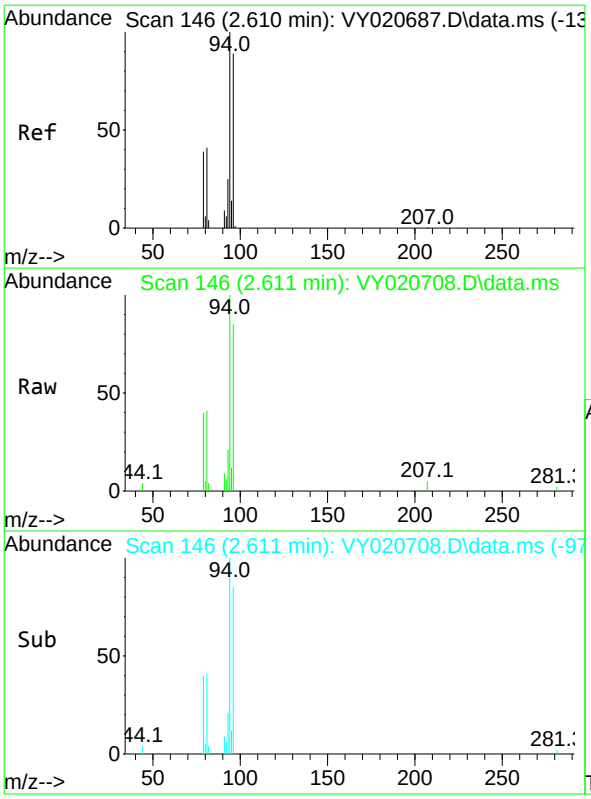



#4
Vinyl Chloride
Concen: 19.375 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 62 Resp: 8742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.4 | 26.6 | 40.0 |

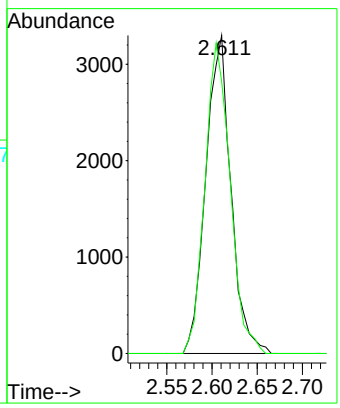





#5
Bromomethane
Concen: 18.699 ug/l
RT: 2.611 min Scan# 14
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 94 Resp: 6370

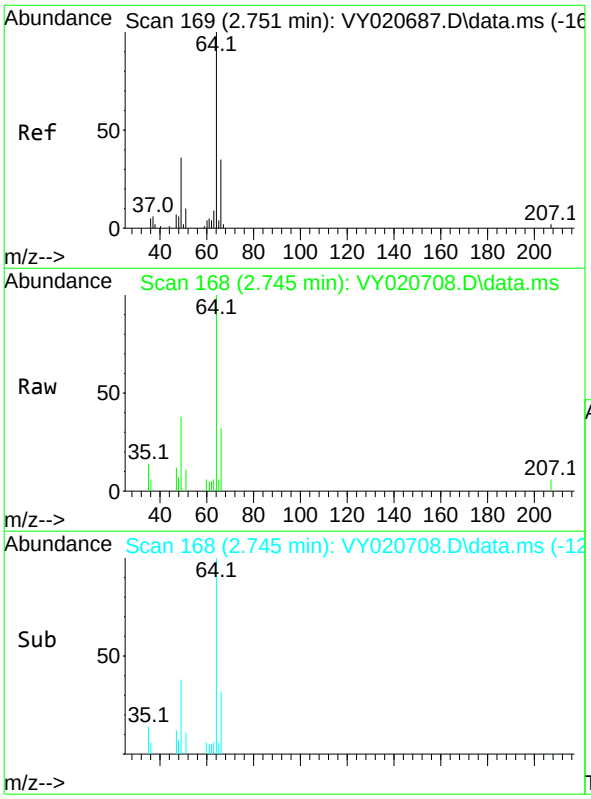
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 85.5 | 71.0 | 106.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

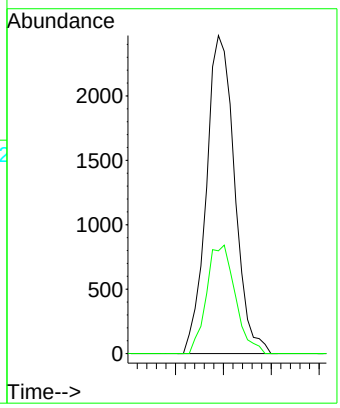
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

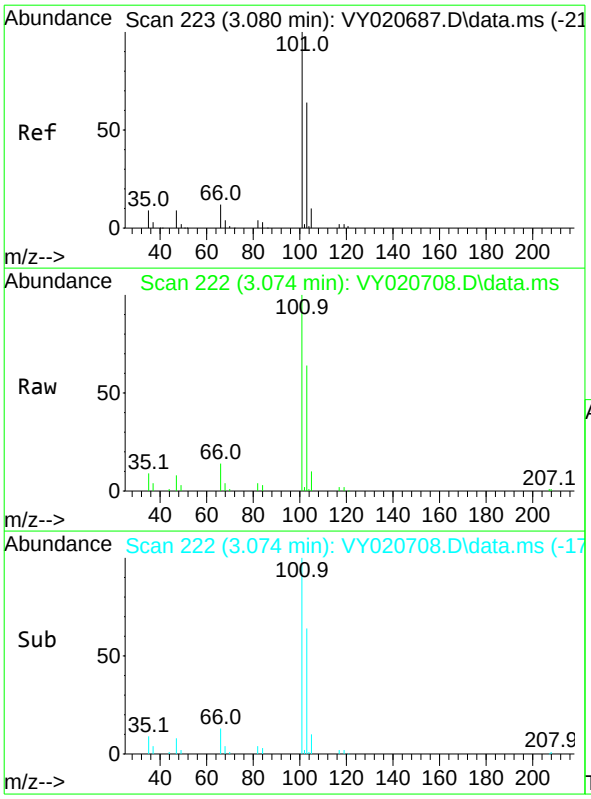



#6
Chloroethane
Concen: 18.687 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 64 Resp: 5058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.3 | 27.8 | 41.8 |

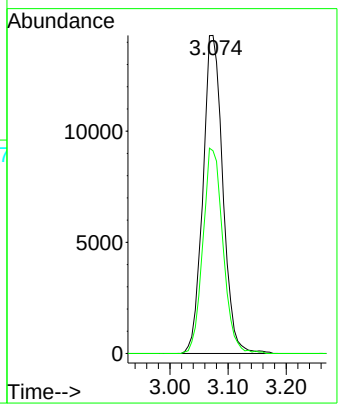





#7
Trichlorofluoromethane
Concen: 19.610 ug/l
RT: 3.074 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:101 Resp: 34026

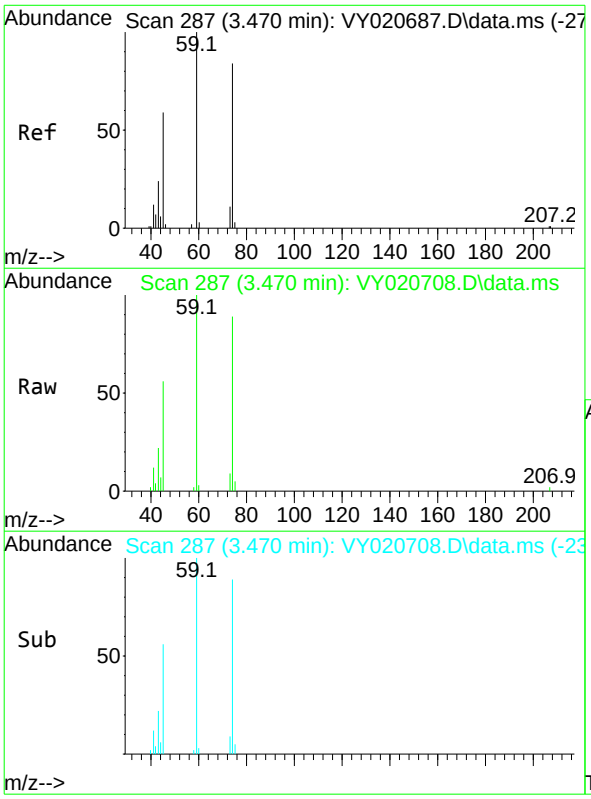
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 51.4 | 77.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

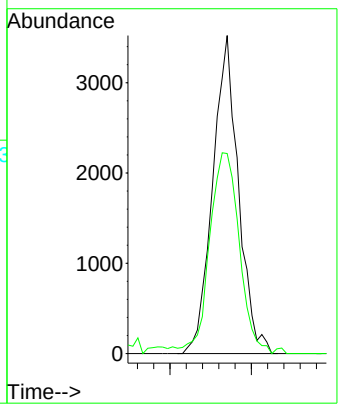
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

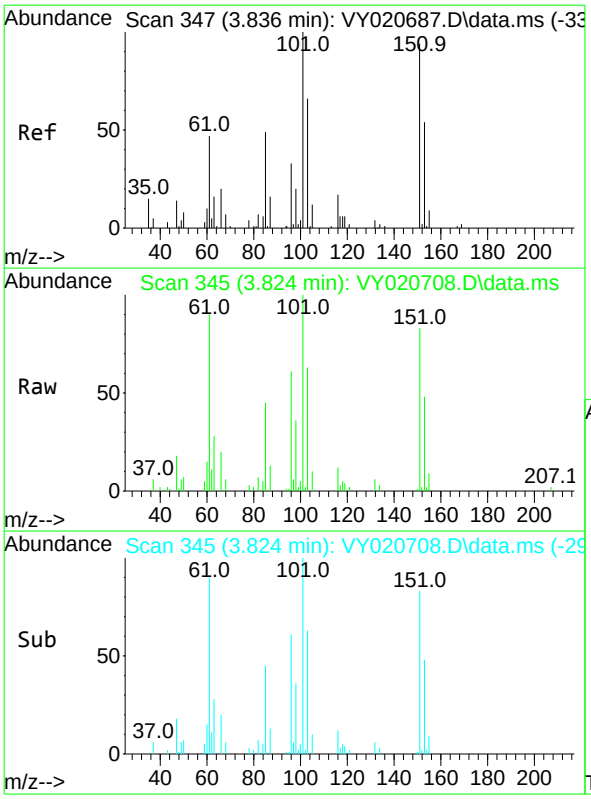



#8
Diethyl Ether
Concen: 18.739 ug/l
RT: 3.470 min Scan# 287
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 74 Resp: 7737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 72.7 | 35.8 | 107.4 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.675 ug/l
RT: 3.824 min Scan# 34
Delta R.T. -0.012 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

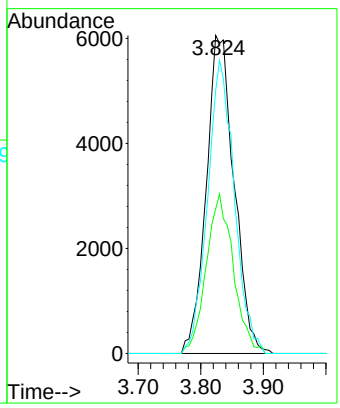
Tgt Ion:101 Resp: 18742

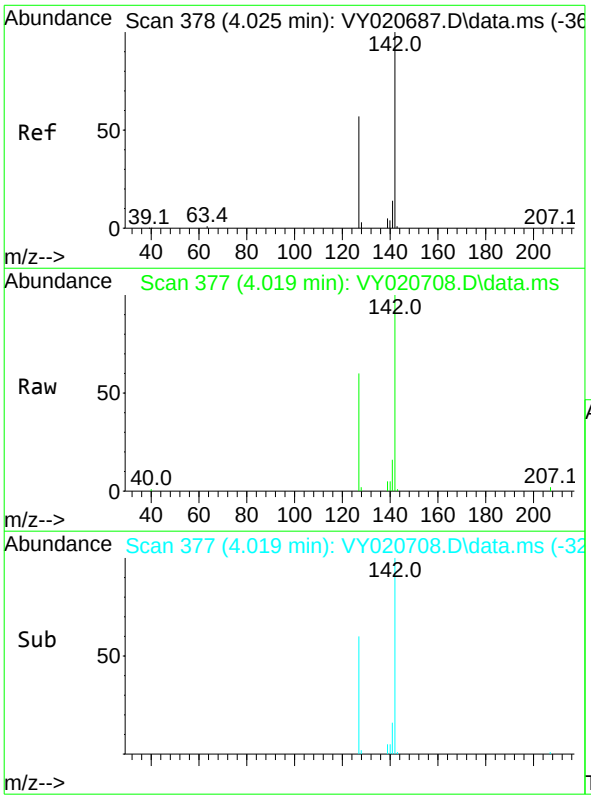
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.7 | 38.2 | 57.2 |
| 151 | 88.6 | 68.4 | 102.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

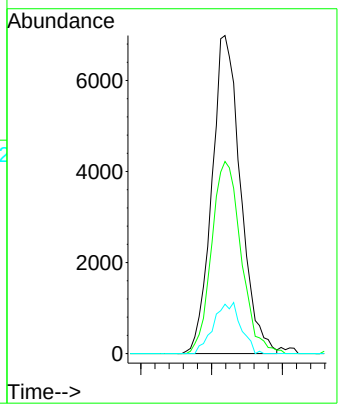


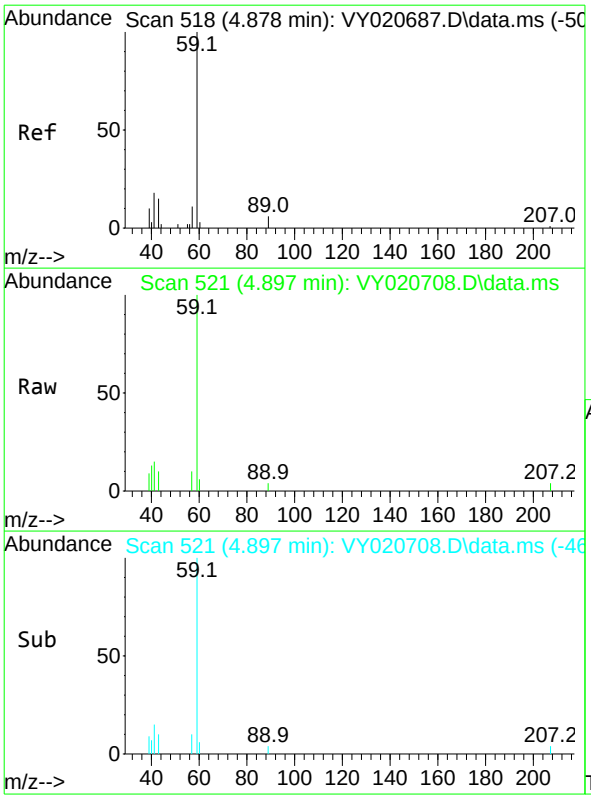




#10
Methyl Iodide
Concen: 18.866 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:142 Resp: 19652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 62.1 | 48.8 | 73.2 |
| 141 | 15.3 | 11.9 | 17.9 |

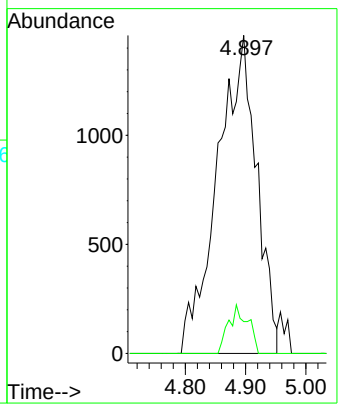





#11
Tert butyl alcohol
Concen: 90.235 ug/l
RT: 4.897 min Scan# 52
Delta R.T. 0.019 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 59 Resp: 6567

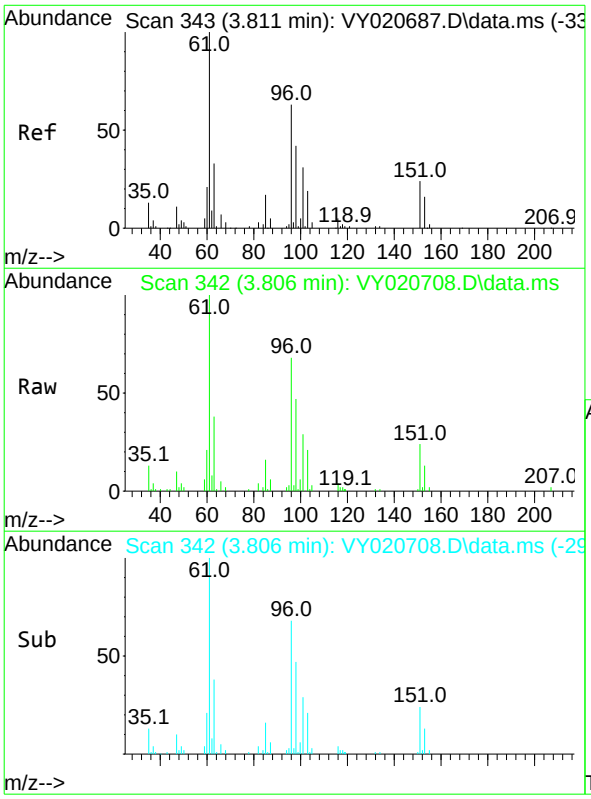
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 7.5 | 2.8 | 4.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

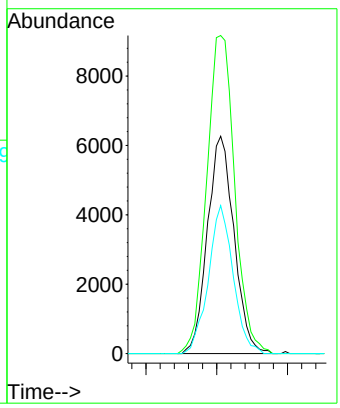
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

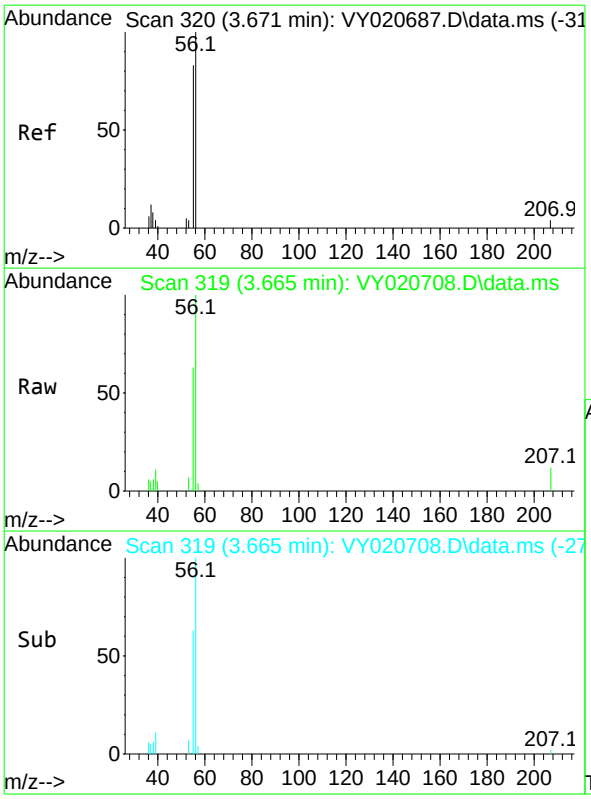



#12
1,1-Dichloroethene
Concen: 19.312 ug/l
RT: 3.806 min Scan# 342
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 96 Resp: 16374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.3 | 127.1 | 190.7 |
| 98 | 68.1 | 53.4 | 80.0 |

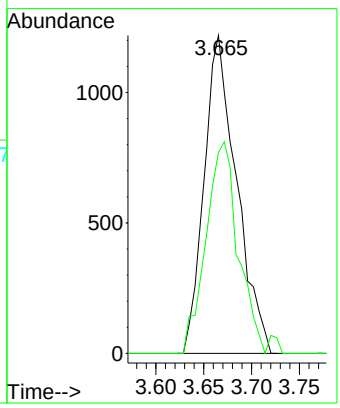





#13
Acrolein
Concen: 134.971 ug/l
RT: 3.665 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 56 Resp: 2867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 66.0 | 57.0 | 85.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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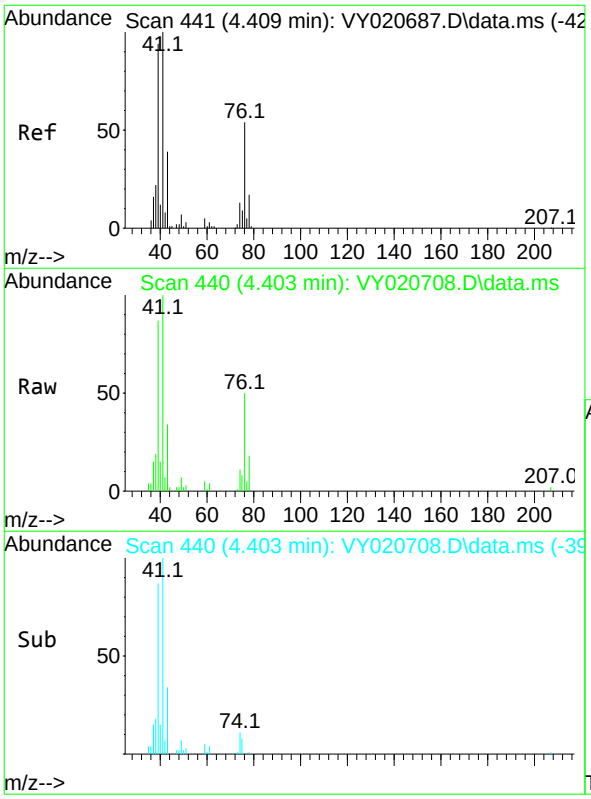
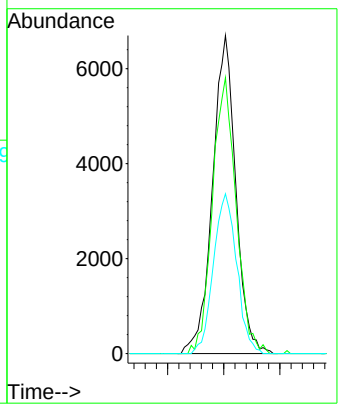
Supervised By :Semsettin Yesilyurt 12/27/2024

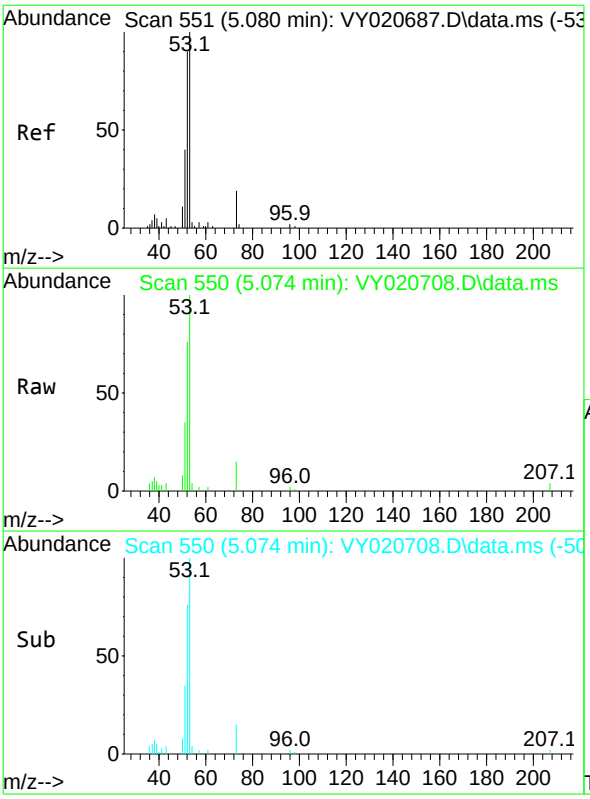



#14
Allyl chloride
Concen: 19.468 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 41 Resp: 19316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 87.9 | 73.5 | 110.3 |
| 76 | 50.2 | 41.8 | 62.8 |

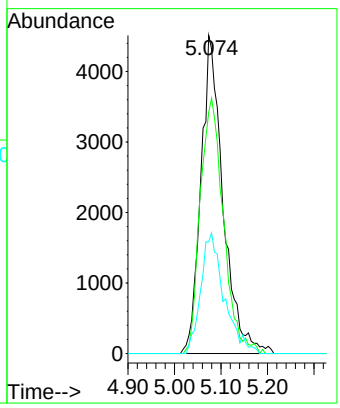





#15
Acrylonitrile
Concen: 93.535 ug/l
RT: 5.074 min Scan# 55
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 53 Resp: 14919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.2 | 67.1 | 100.7 |
| 51 | 39.9 | 31.4 | 47.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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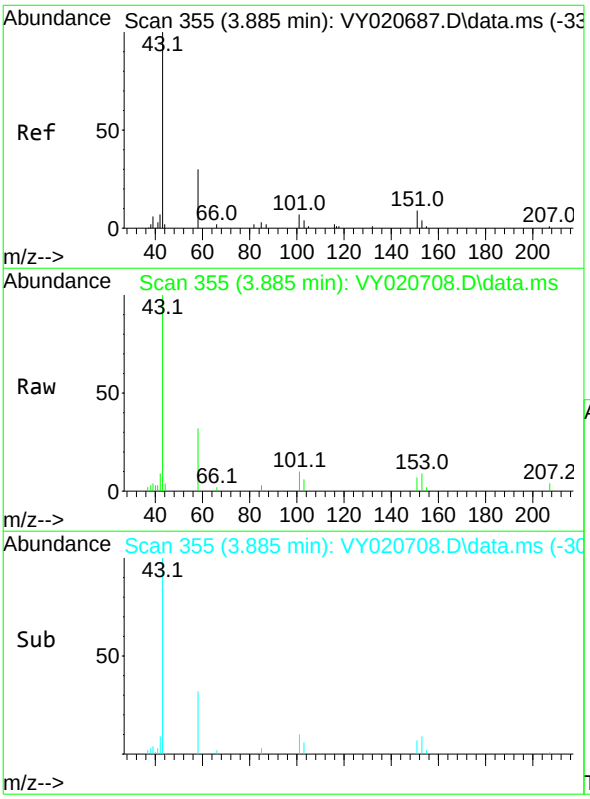
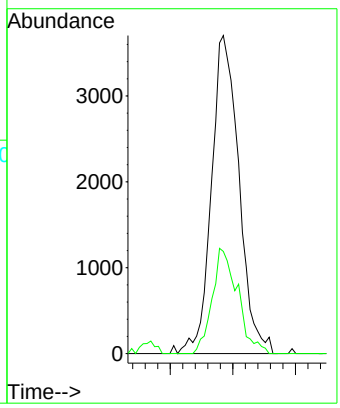
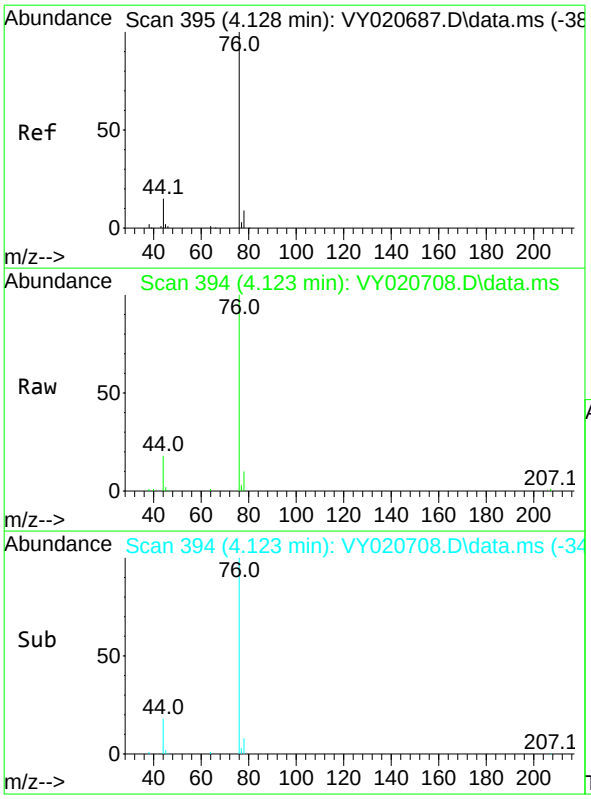



#16
Acetone
Concen: 87.443 ug/l
RT: 3.885 min Scan# 355
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 11272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 25.0 | 37.6 |

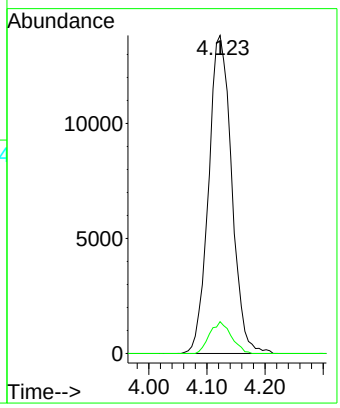





#17
Carbon Disulfide
Concen: 18.338 ug/l
RT: 4.123 min Scan# 39
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 76 Resp: 38140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.0 | 6.9 | 10.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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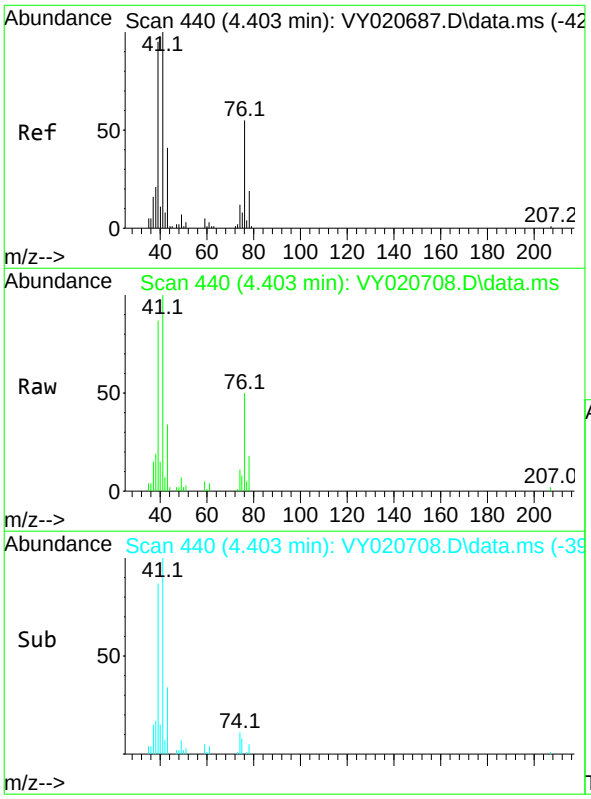
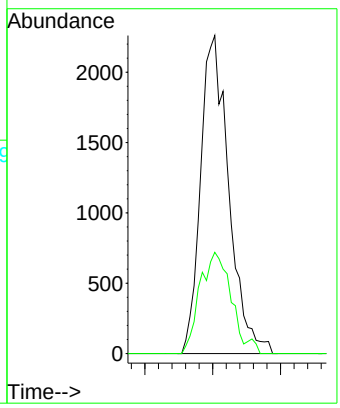
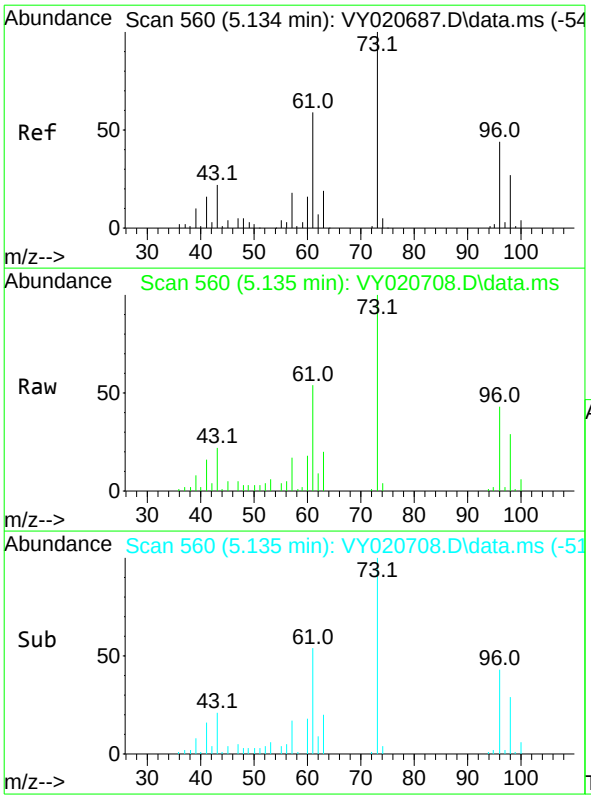



#18
Methyl Acetate
Concen: 18.708 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 6527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 35.6 | 25.3 | 37.9 |

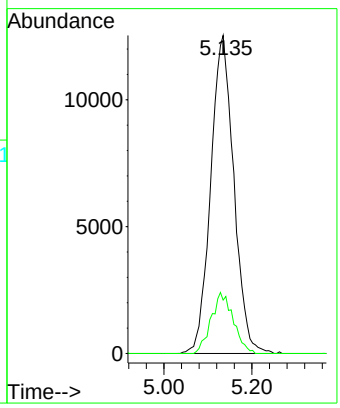





#19
Methyl tert-butyl Ether
Concen: 19.355 ug/l
RT: 5.135 min Scan# 56
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 73 Resp: 45739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 16.8 | 14.4 | 21.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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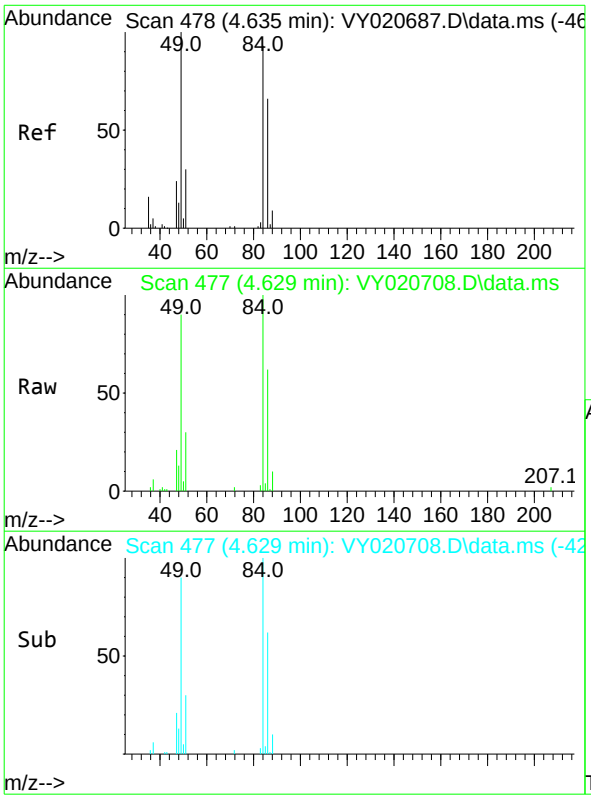
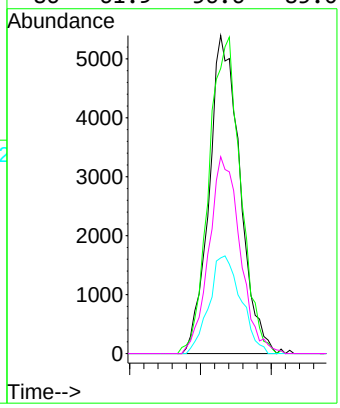
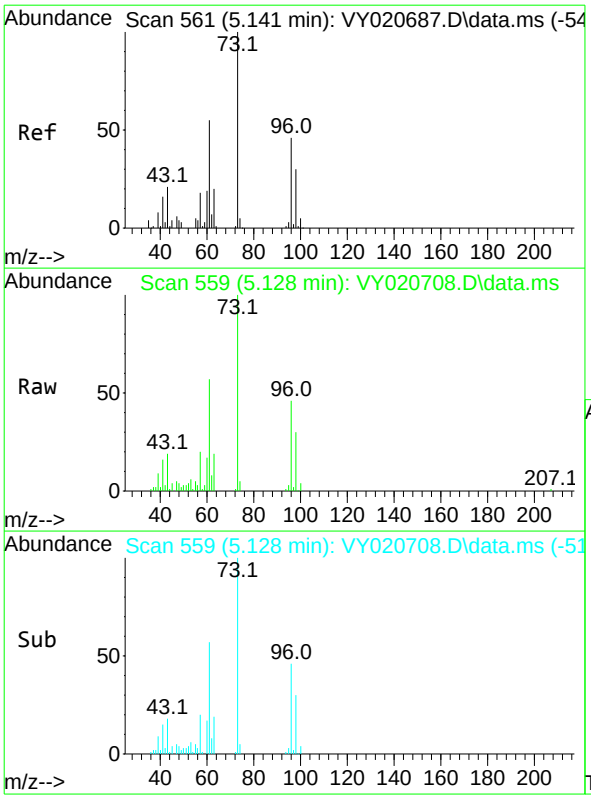



#20
Methylene Chloride
Concen: 19.426 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 84 Resp: 16287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 89.6 | 86.4 | 129.6 |
| 51 | 30.1 | 25.5 | 38.3 |
| 86 | 61.9 | 56.6 | 85.0 |

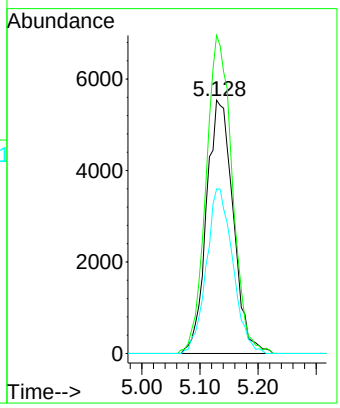





#21
trans-1,2-Dichloroethene
Concen: 19.342 ug/l
RT: 5.128 min Scan# 55
Delta R.T. -0.013 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 96 Resp: 17672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.5 | 96.1 | 144.1 |
| 98 | 64.9 | 52.7 | 79.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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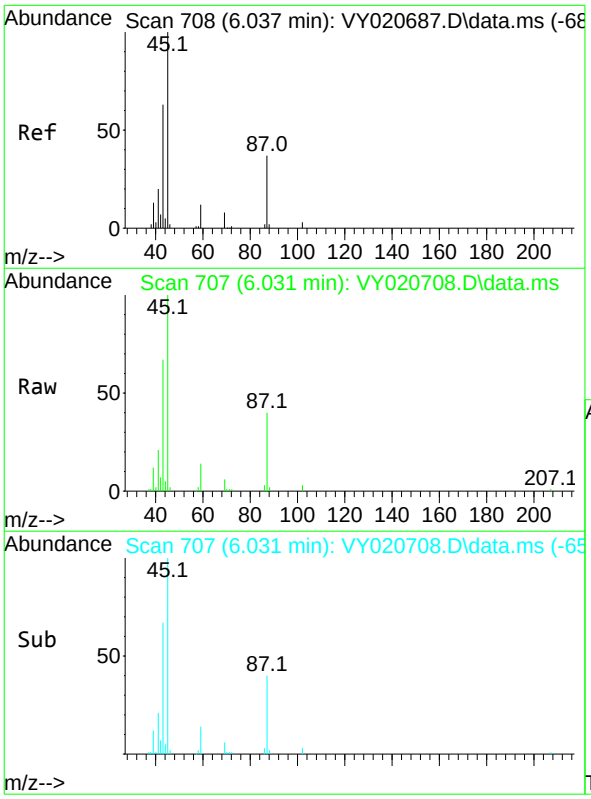
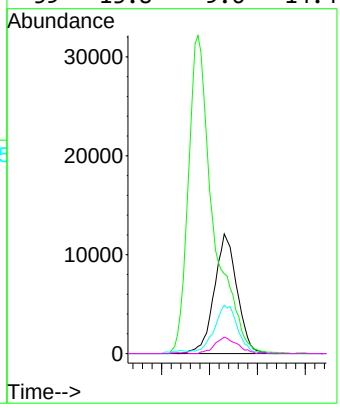
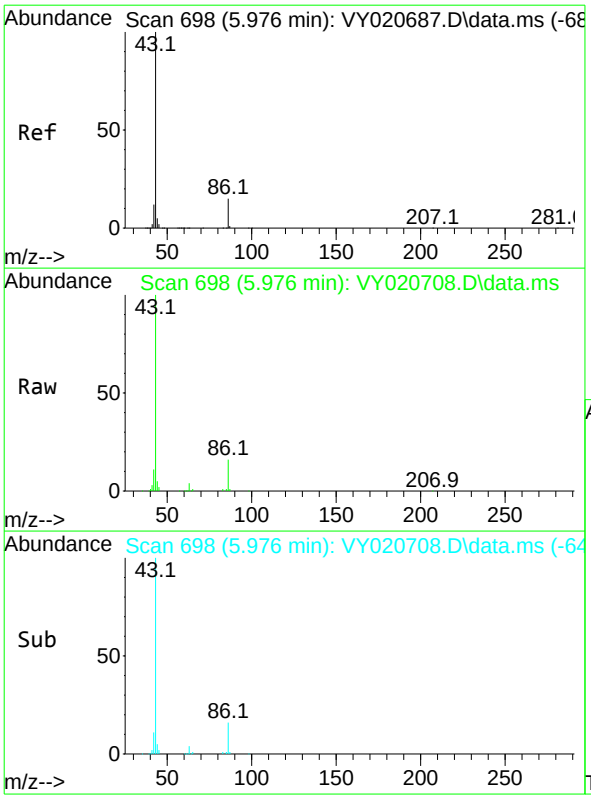



#22
Diisopropyl ether
Concen: 19.778 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 45 Resp: 39891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.8 | 51.3 | 76.9 |
| 87 | 40.5 | 30.6 | 46.0 |
| 59 | 13.8 | 9.6 | 14.4 |

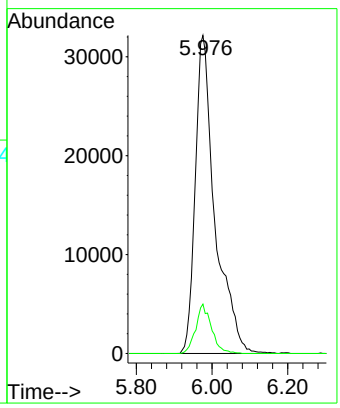





#23
Vinyl Acetate
Concen: 96.512 ug/l
RT: 5.976 min Scan# 69
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 116269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 15.5 | 12.0 | 18.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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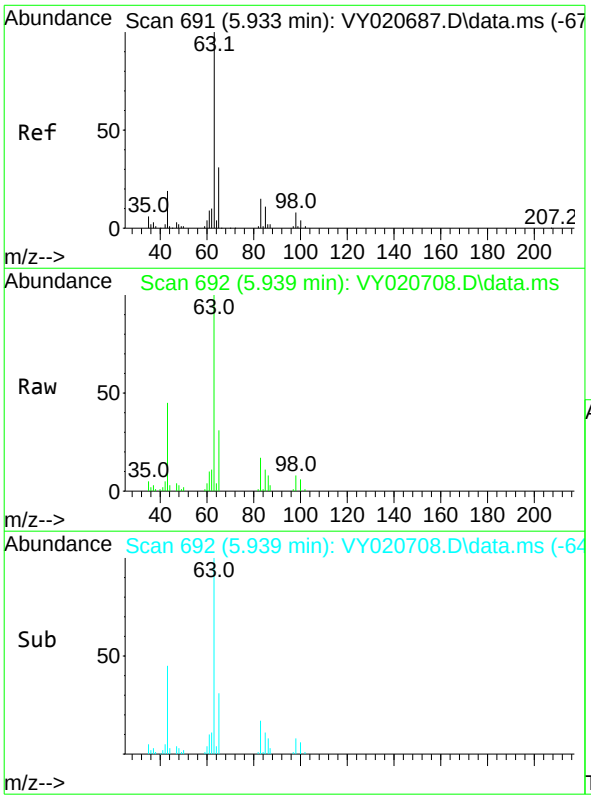
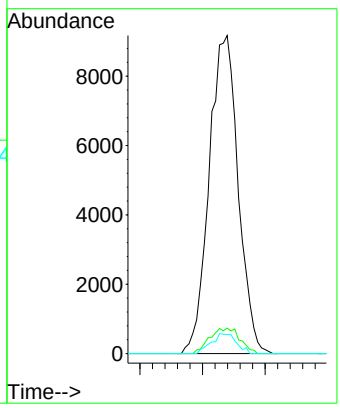
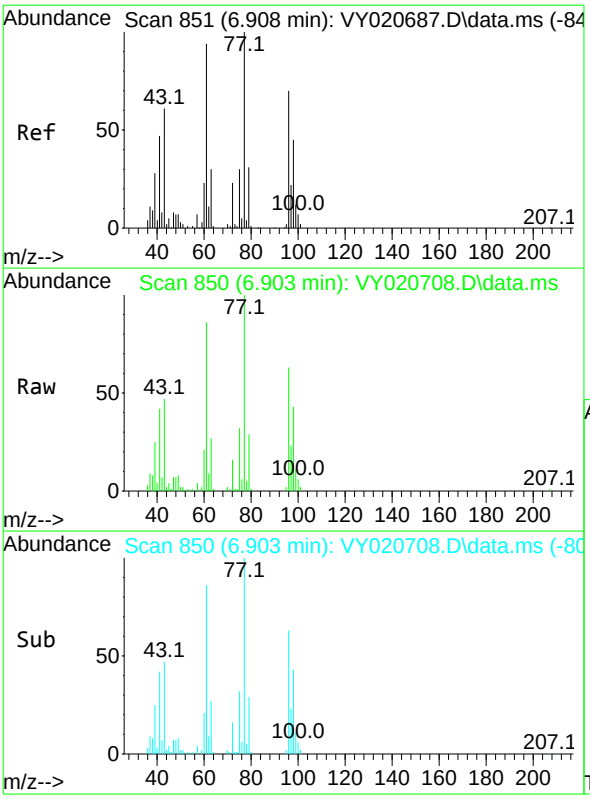



#24
1,1-Dichloroethane
Concen: 19.545 ug/l
RT: 5.939 min Scan# 692
Delta R.T. 0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 63 Resp: 29556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.0 | 4.0 | 12.0 |
| 100 | 6.0 | 2.1 | 6.2 |

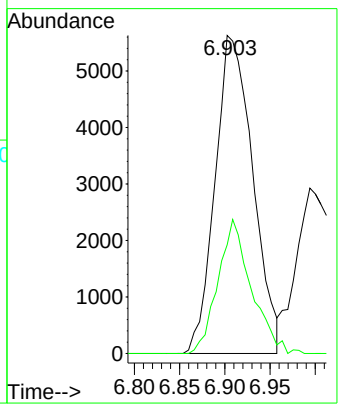





#25
2-Butanone
Concen: 93.814 ug/l
RT: 6.903 min Scan# 85
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 16336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 34.2 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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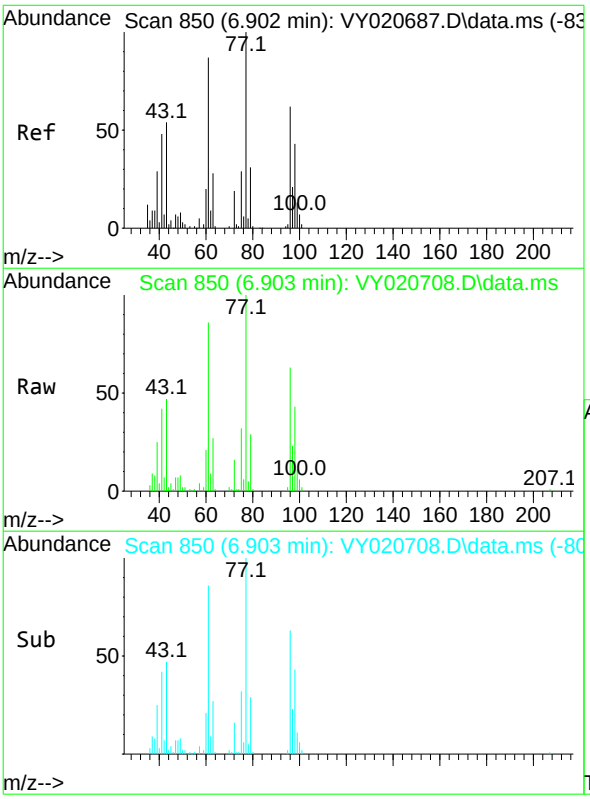
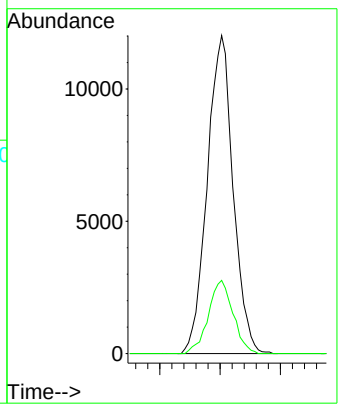
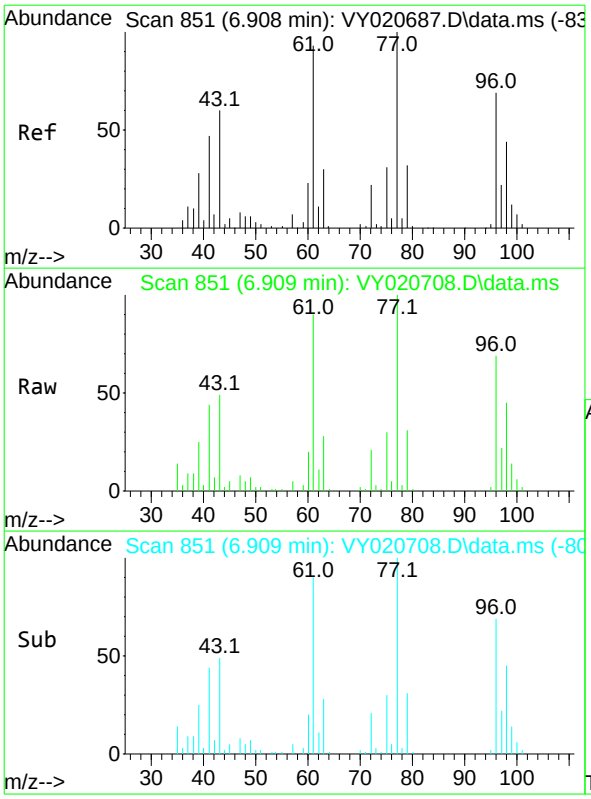



#26
2,2-Dichloropropane
Concen: 19.368 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 77 Resp: 35847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.8 | 32.4 |

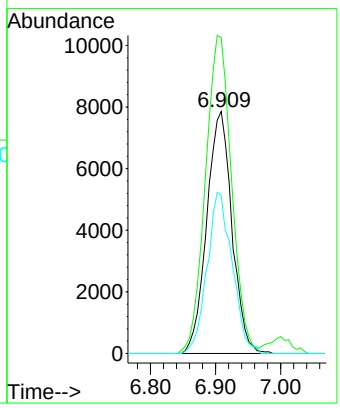





#27
cis-1,2-Dichloroethene
Concen: 19.320 ug/l
RT: 6.909 min Scan# 85
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 96 Resp: 21139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.1 | 0.0 | 277.2 |
| 98 | 66.5 | 0.0 | 131.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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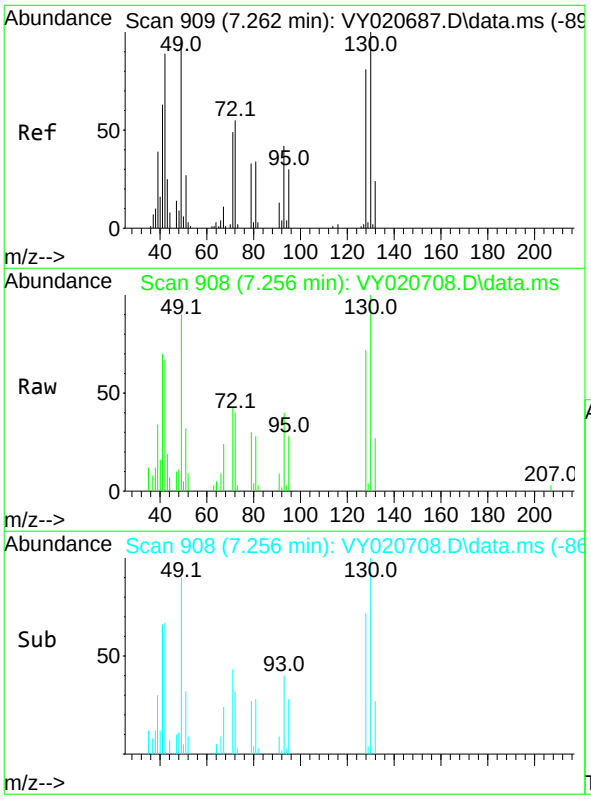
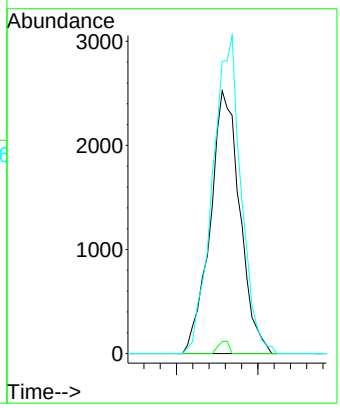
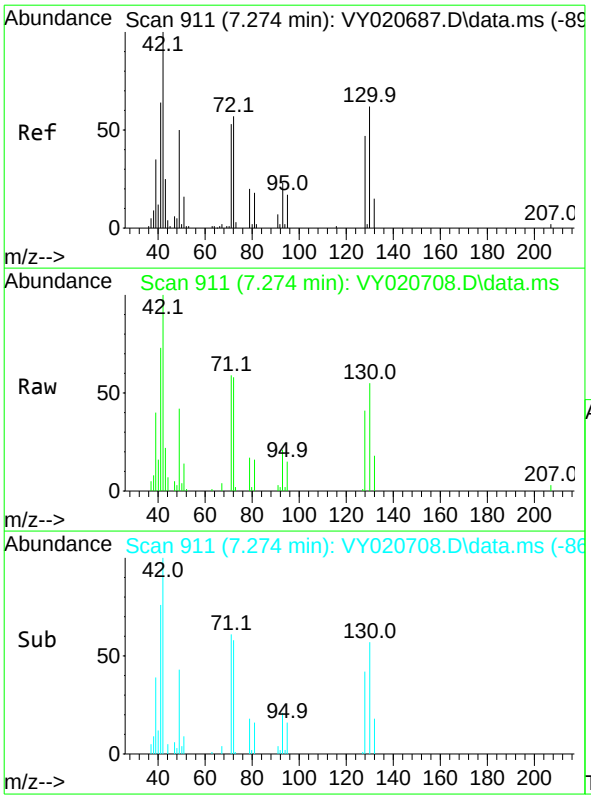



#28
Bromochloromethane
Concen: 15.974 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 49 Resp: 6388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.7 | 0.0 | 5.4 |
| 130 | 116.7 | 87.2 | 130.8 |

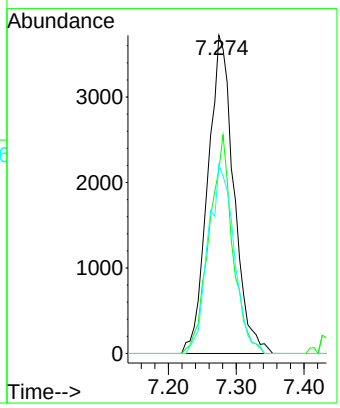





#29
Tetrahydrofuran
Concen: 92.698 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 42 Resp: 9908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 62.0 | 47.4 | 71.0 |
| 71 | 59.8 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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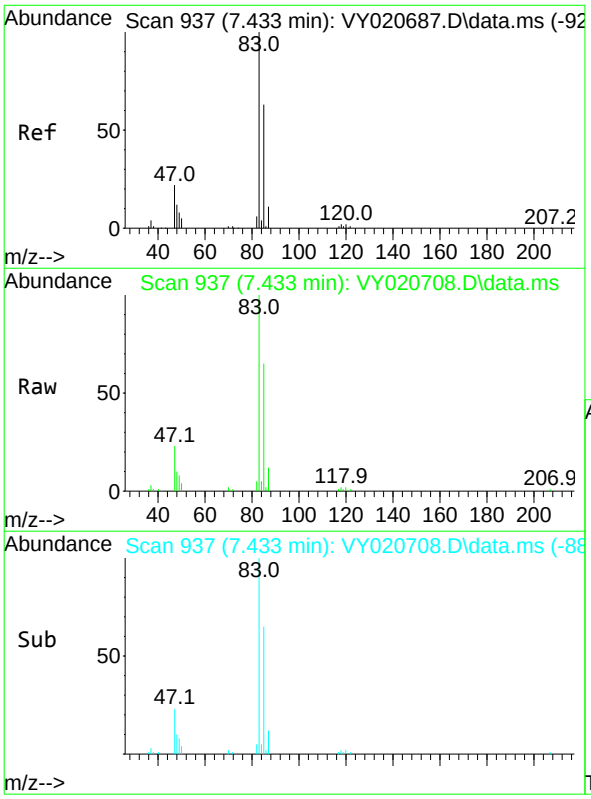
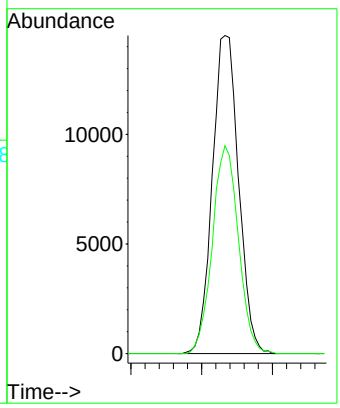
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

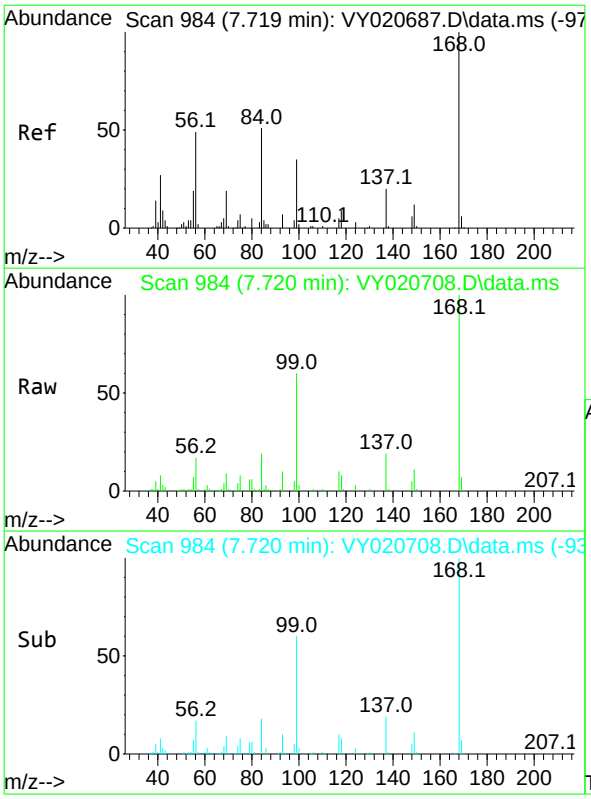



#30
Chloroform
Concen: 19.200 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 83 Resp: 37350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.4 | 50.2 | 75.2 |

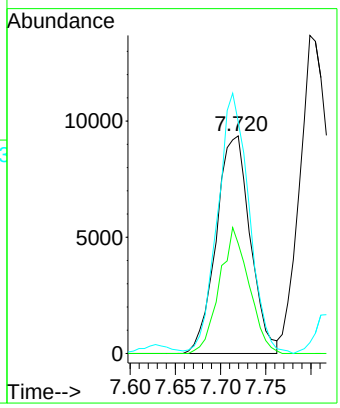





#31
Cyclohexane
Concen: 18.736 ug/l
RT: 7.720 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 56 Resp: 24456

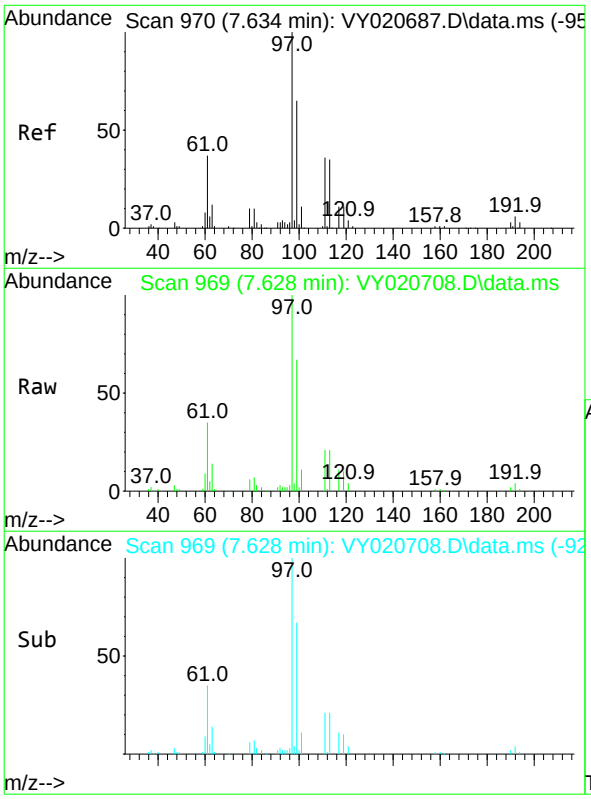
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 50.5 | 31.3 | 46.9# |
| 84 | 104.8 | 83.9 | 125.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

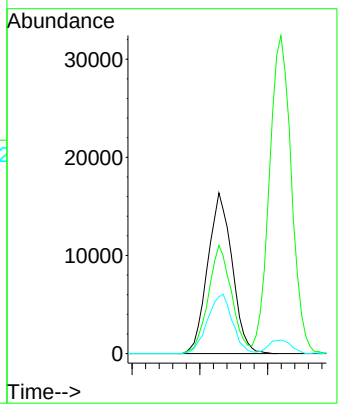
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

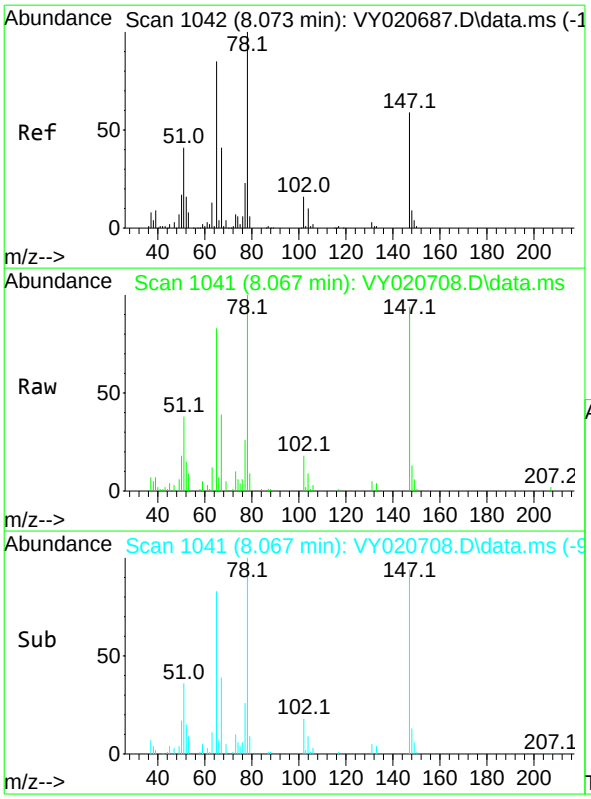



#32
1,1,1-Trichloroethane
Concen: 19.656 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 97 Resp: 40987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 51.0 | 76.6 |
| 61 | 37.6 | 30.0 | 45.0 |

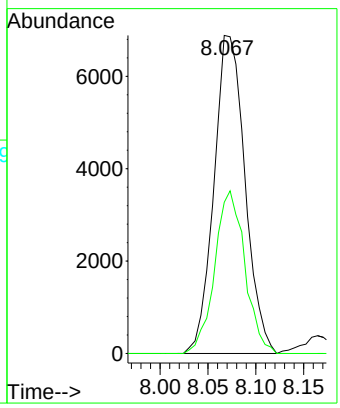





#33
1,2-Dichloroethane-d4
Concen: 15.300 ug/l
RT: 8.067 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 65 Resp: 15547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.6 | 0.0 | 98.0 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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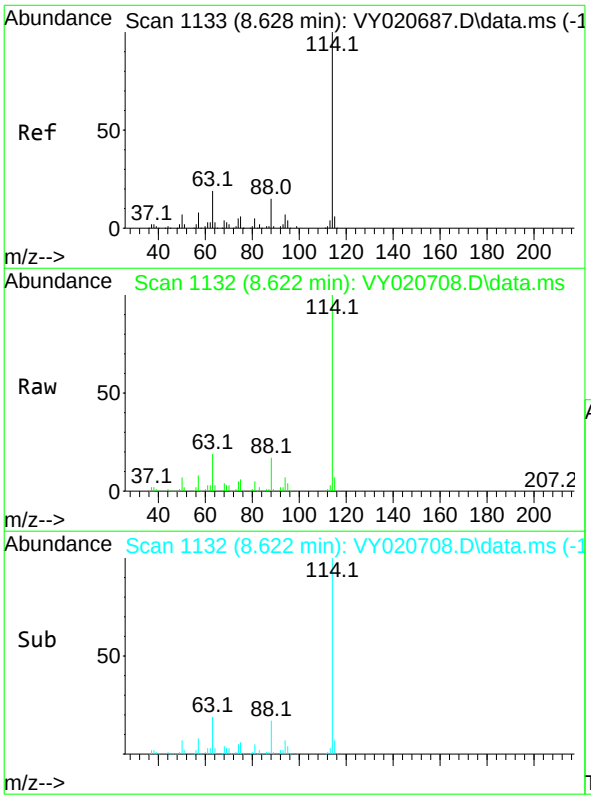
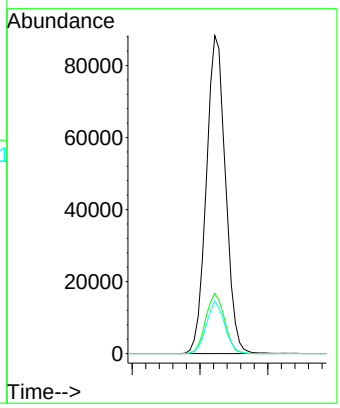
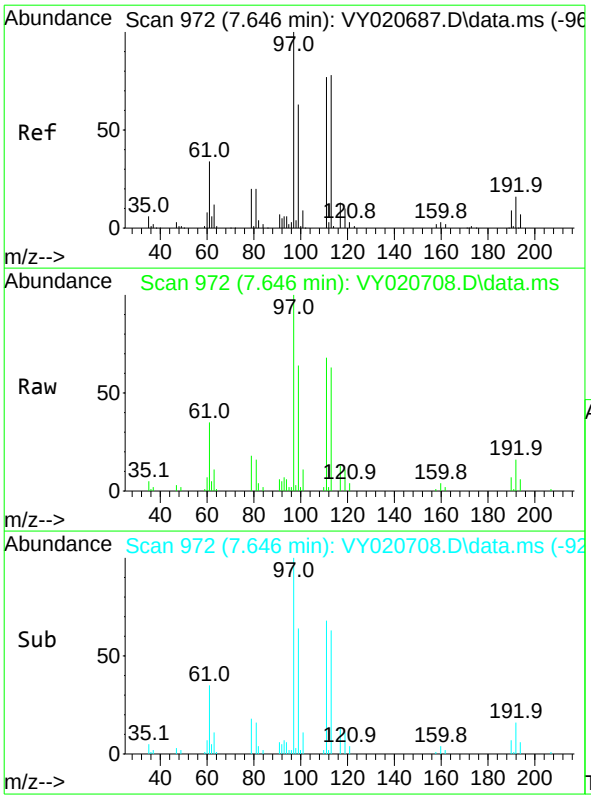



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:114 Resp: 173311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.9 | 0.0 | 38.4 |
| 88 | 16.6 | 0.0 | 30.4 |

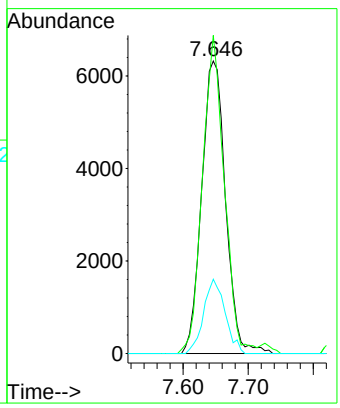





#35
Dibromofluoromethane
Concen: 16.876 ug/l
RT: 7.646 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:113 Resp: 16110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 99.4 | 79.8 | 119.8 |
| 192 | 22.9 | 17.0 | 25.6 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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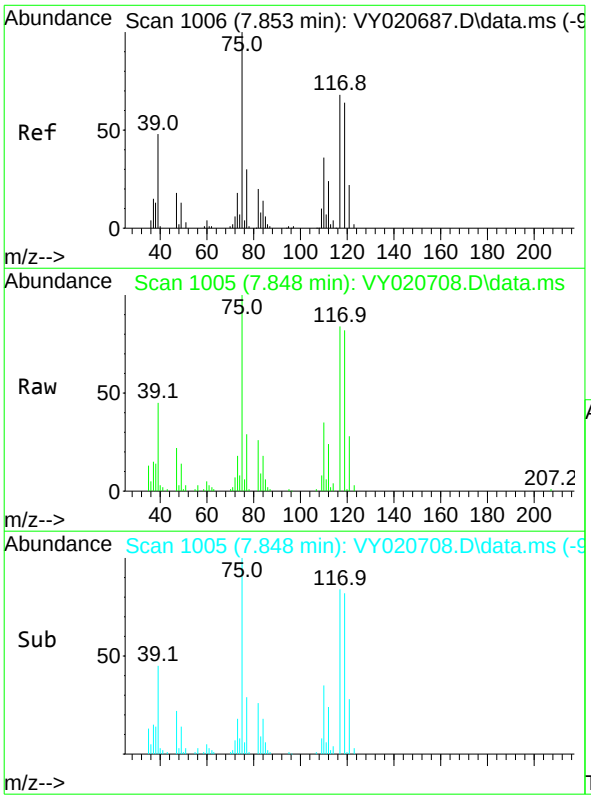
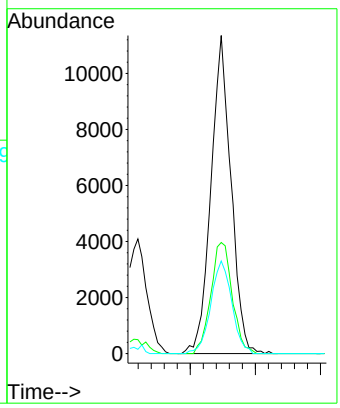
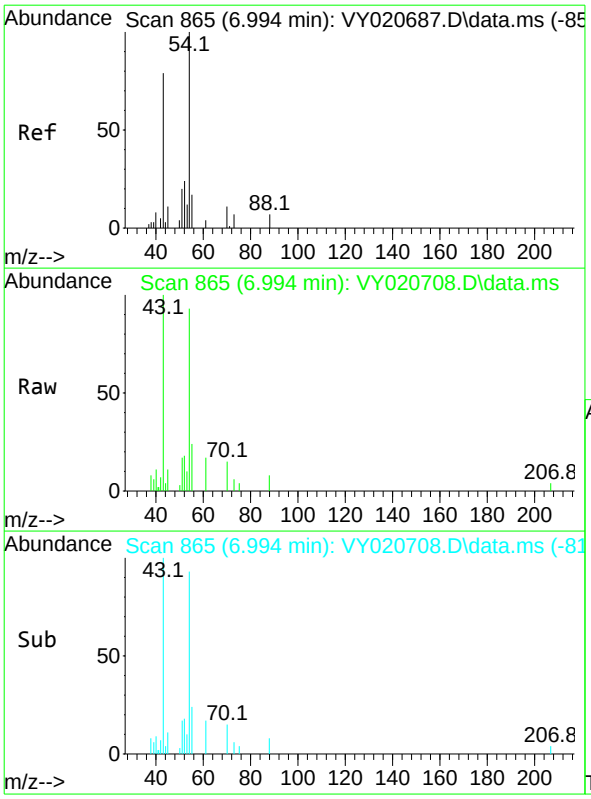



#36
1,1-Dichloropropene
Concen: 19.240 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 75 Resp: 24262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.3 | 19.6 | 58.7 |
| 77 | 30.6 | 25.1 | 37.7 |

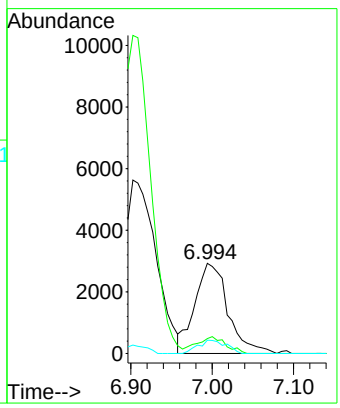





#37
Ethyl Acetate
Concen: 19.972 ug/l
RT: 6.994 min Scan# 86
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 8299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.3 | 11.7 | 17.5 |
| 70 | 12.5 | 11.0 | 16.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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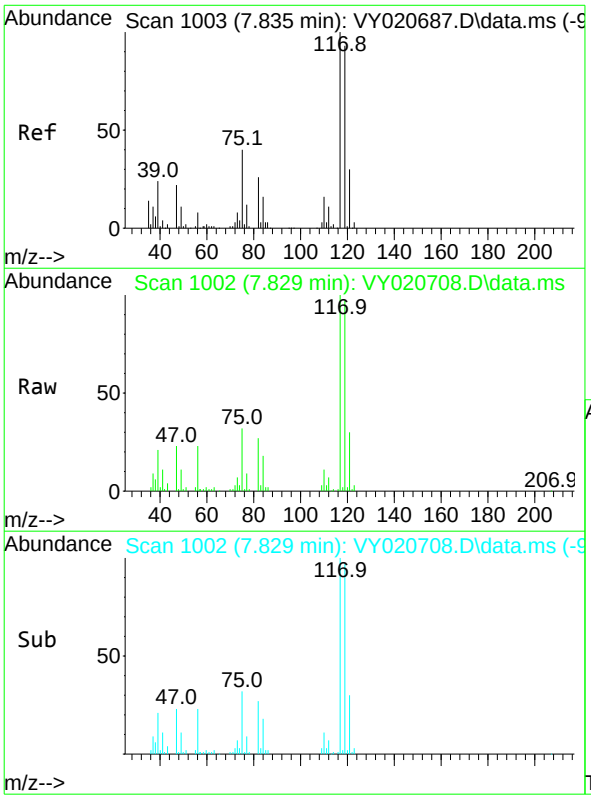
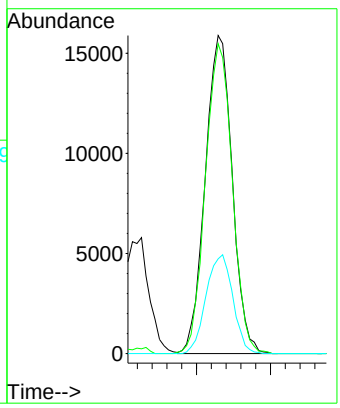
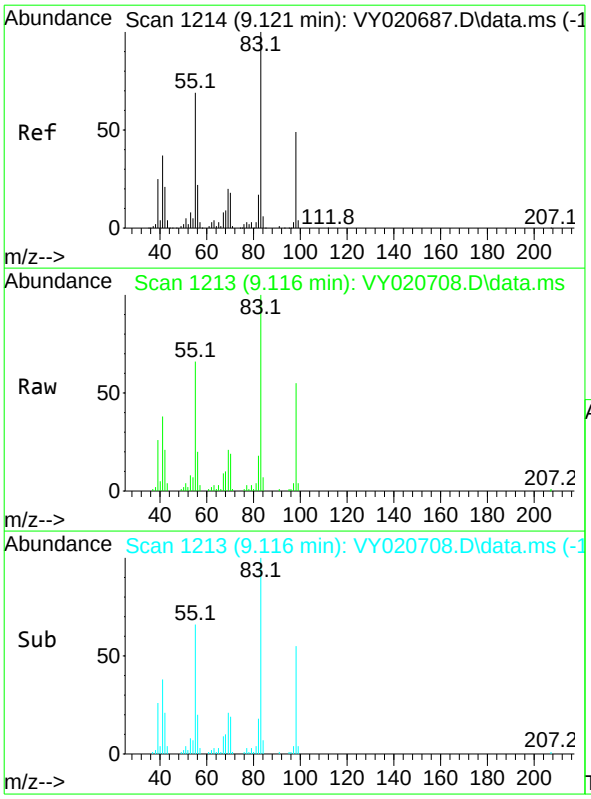



#38
Carbon Tetrachloride
Concen: 19.409 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:117 Resp: 40302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.4 | 74.4 | 111.6 |
| 121 | 29.8 | 24.2 | 36.2 |






#39
Methylcyclohexane
Concen: 19.803 ug/l
RT: 9.116 min Scan# 12
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 83 Resp: 32007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.7 | 55.0 | 82.4 |
| 98 | 54.9 | 39.0 | 58.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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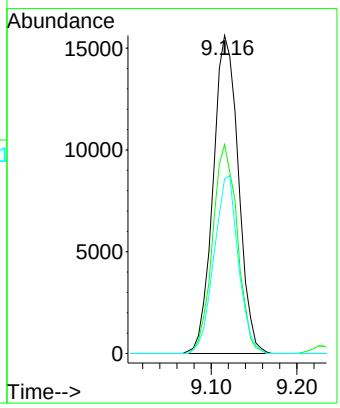
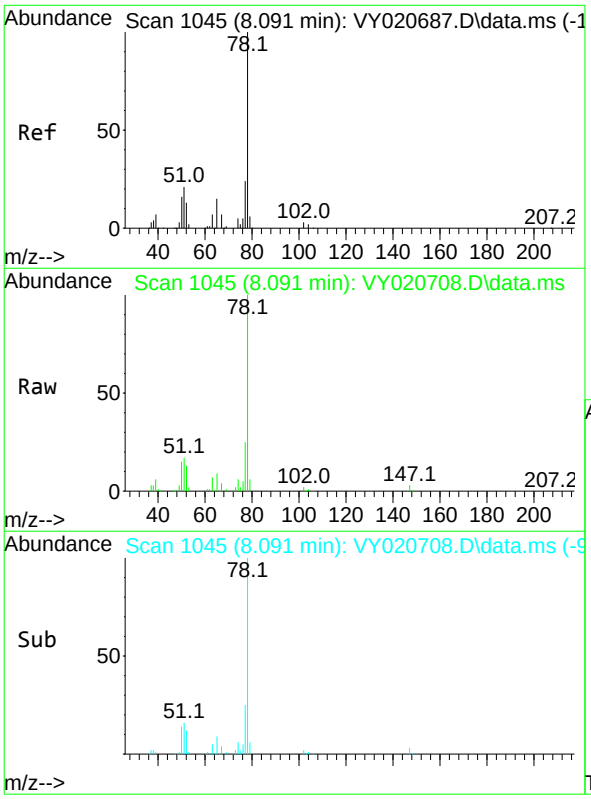
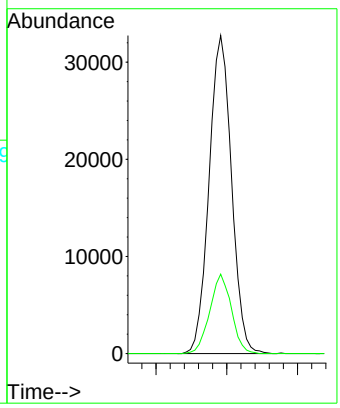


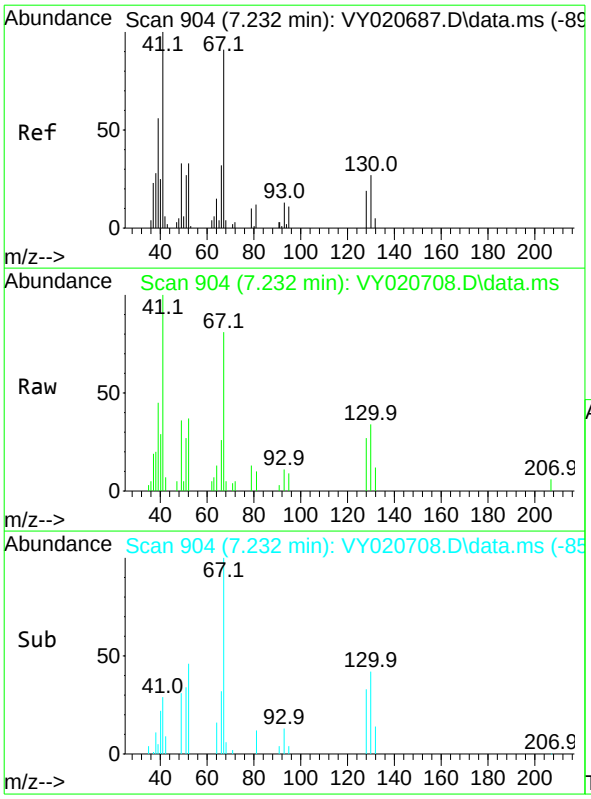




#40
Benzene
Concen: 19.731 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 78 Resp: 72108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.0 | 19.2 | 28.8 |

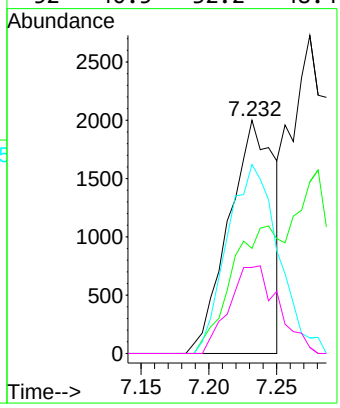





#41
Methacrylonitrile
Concen: 22.206 ug/l
RT: 7.232 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 41 Resp: 4661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.7 | 46.6 | 70.0 |
| 67 | 92.0 | 74.7 | 112.1 |
| 52 | 40.5 | 32.2 | 48.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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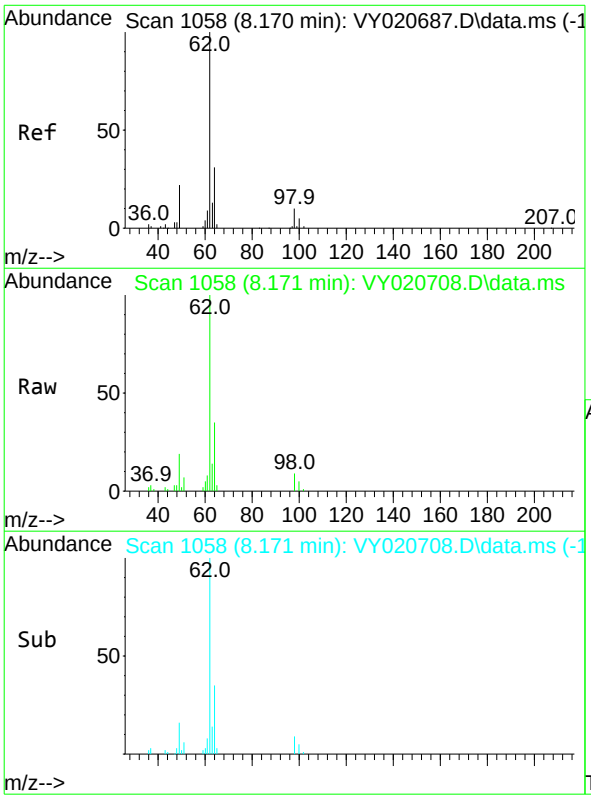
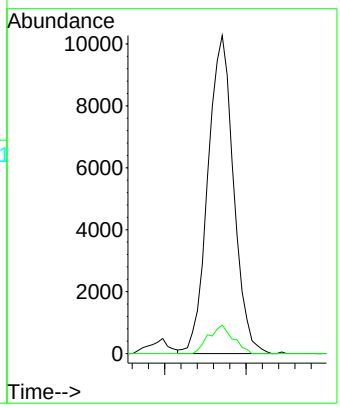
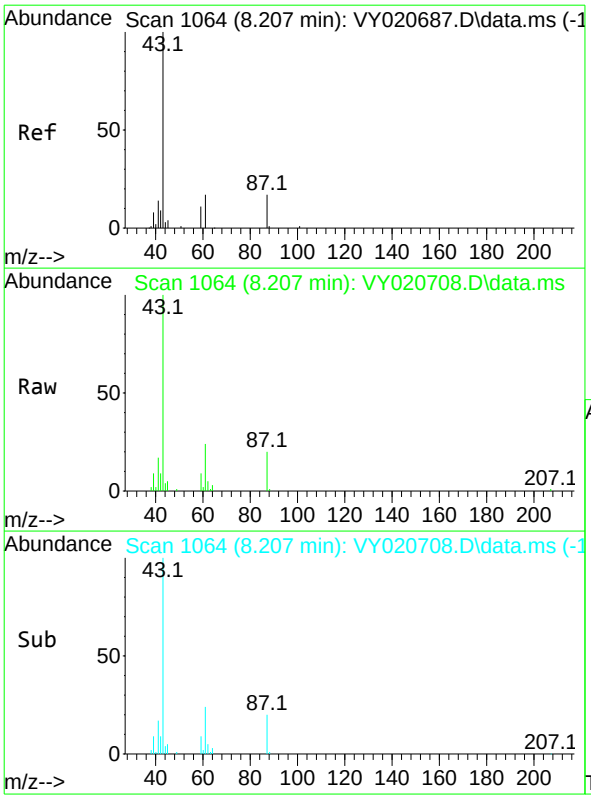



#42
1,2-Dichloroethane
Concen: 19.227 ug/l
RT: 8.171 min Scan# 1058
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 62 Resp: 22531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.5 | 0.0 | 16.6 |

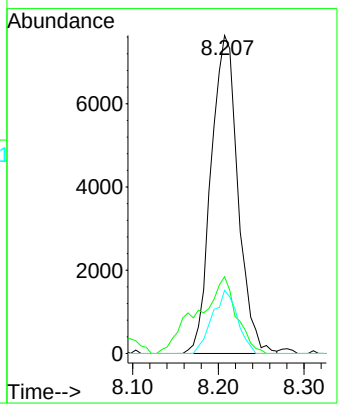





#43
Isopropyl Acetate
Concen: 18.834 ug/l
RT: 8.207 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 16635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 34.9 | 27.0 | 40.4 |
| 87 | 18.6 | 14.2 | 21.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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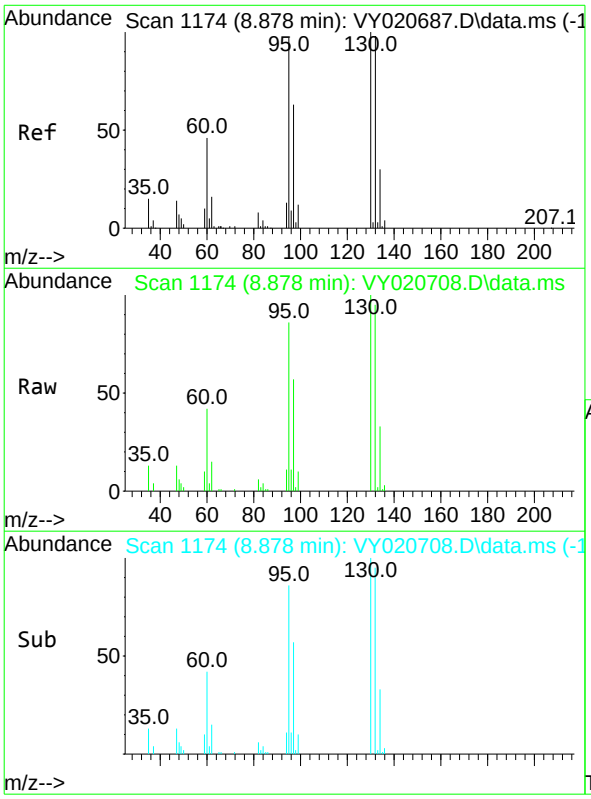
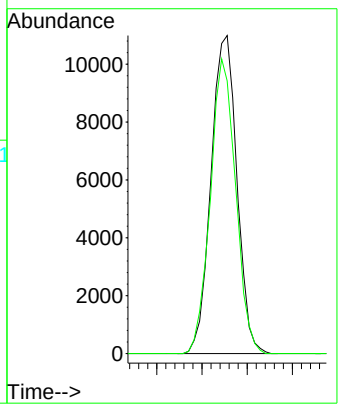
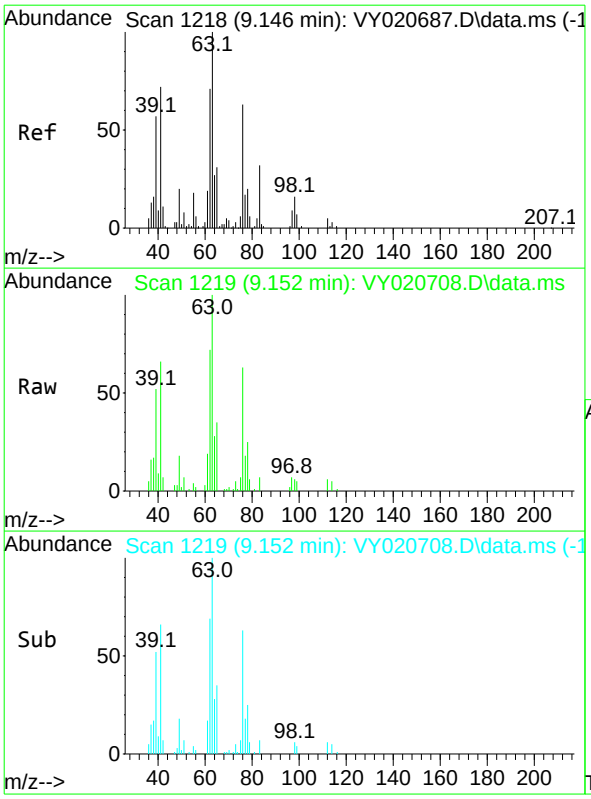



#44
Trichloroethene
Concen: 20.026 ug/l
RT: 8.878 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:130 Resp: 21859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 85.7 | 0.0 | 194.8 |

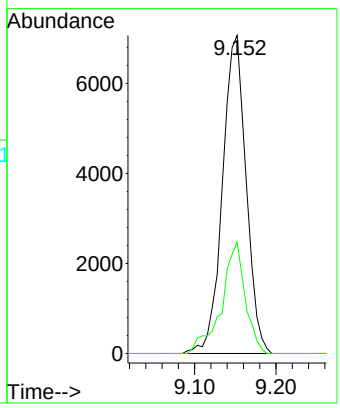





#45
1,2-Dichloropropane
Concen: 19.256 ug/l
RT: 9.152 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 63 Resp: 14245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 35.0 | 24.6 | 36.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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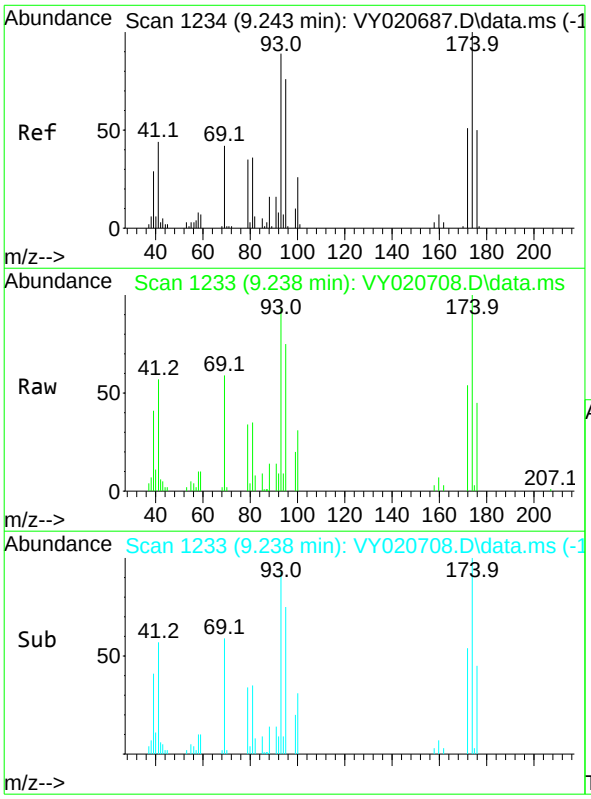
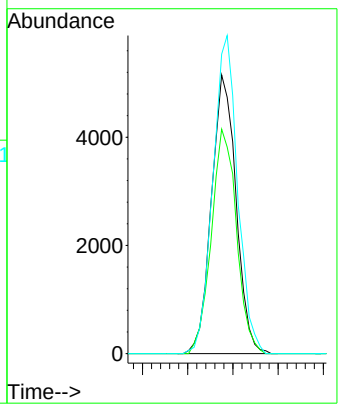
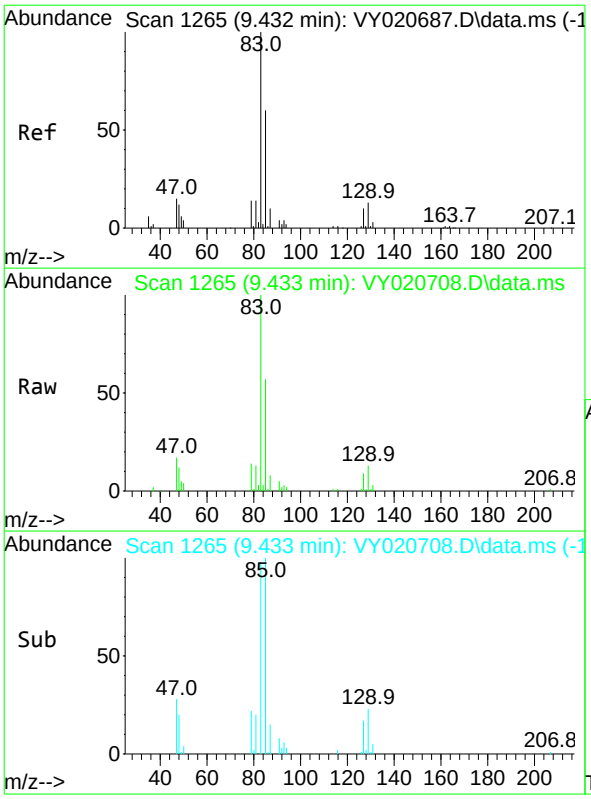



#46
Dibromomethane
Concen: 18.988 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 93 Resp: 9719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.2 | 67.8 | 101.8 |
| 174 | 114.7 | 89.4 | 134.0 |

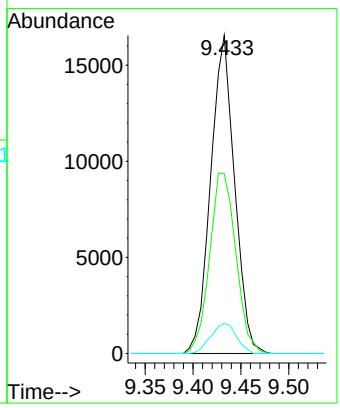





#47
Bromodichloromethane
Concen: 19.803 ug/l
RT: 9.433 min Scan# 12
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 83 Resp: 28737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 56.6 | 47.6 | 71.4 |
| 127 | 9.4 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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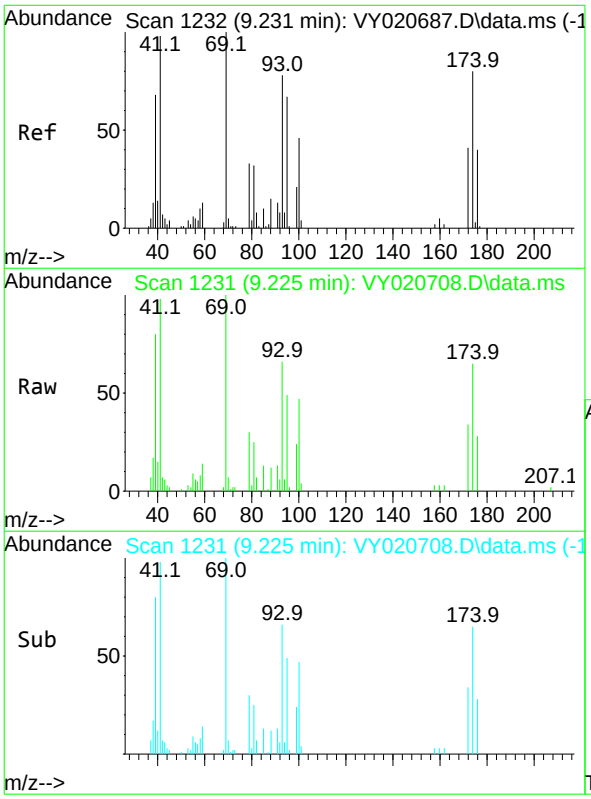
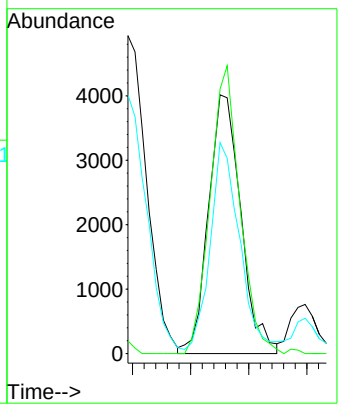
Supervised By :Semsettin Yesilyurt 12/27/2024

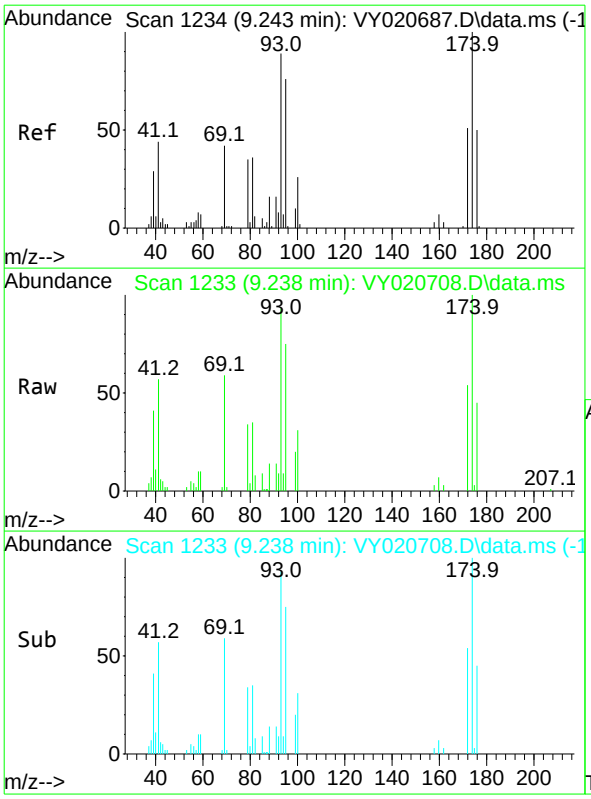



#48
Methyl methacrylate
Concen: 18.879 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 41 Resp: 7787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 101.9 | 83.1 | 124.7 |
| 39 | 72.1 | 57.3 | 85.9 |

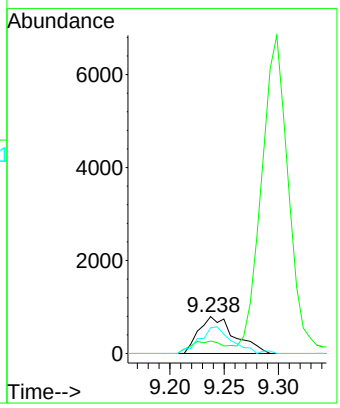





#49
1,4-Dioxane
Concen: 374.309 ug/l
RT: 9.238 min Scan# 12
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 88 Resp: 1825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 28.3 | 22.1 | 33.1 |
| 58 | 64.8 | 46.7 | 70.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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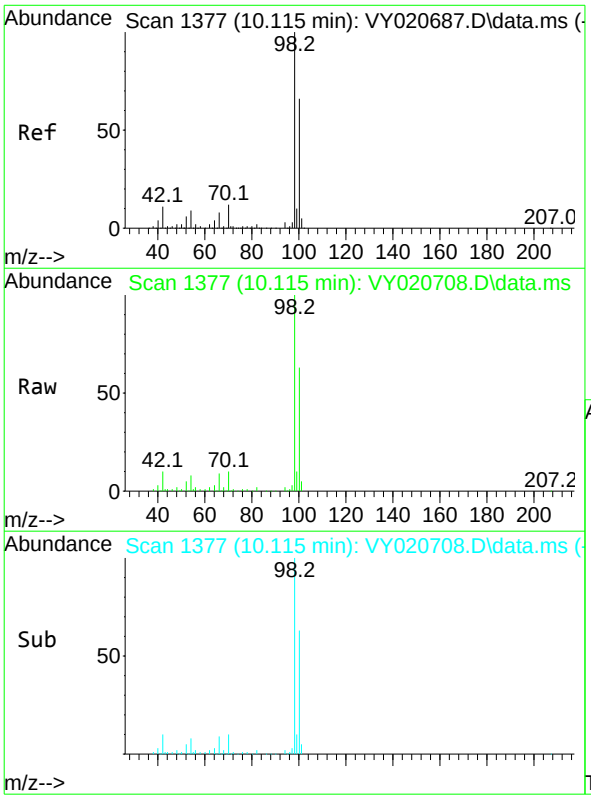
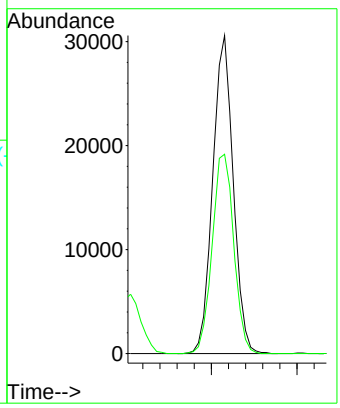
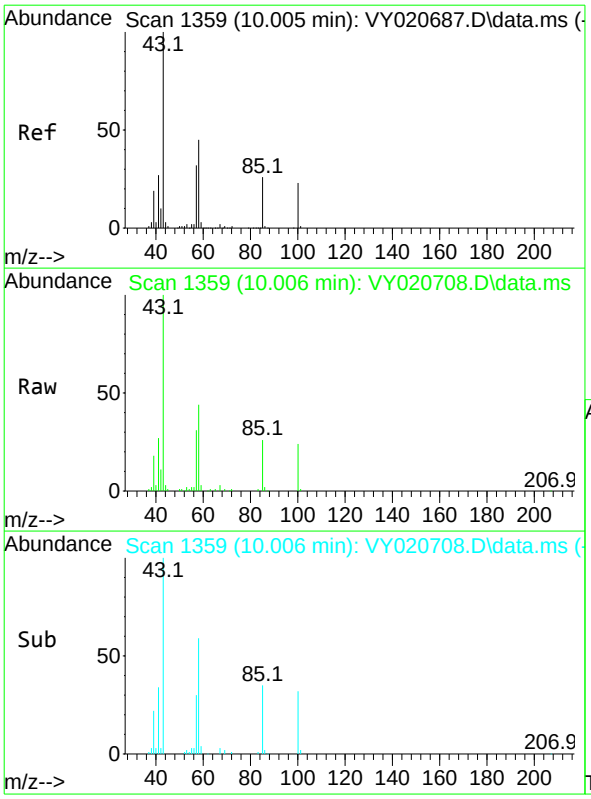



#50
Toluene-d8
Concen: 14.644 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 98 Resp: 50794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.1 | 52.2 | 78.4 |

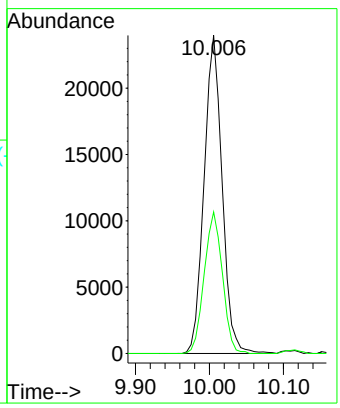





#51
4-Methyl-2-Pentanone
Concen: 95.218 ug/l
RT: 10.006 min Scan# 13
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 40592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.8 | 35.1 | 52.7 |




**Instrument :**
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VSTDICC020

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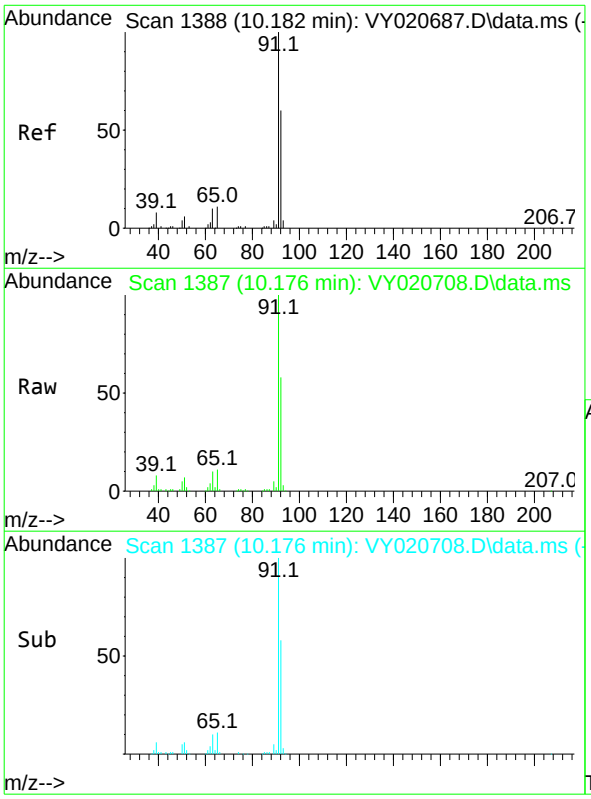
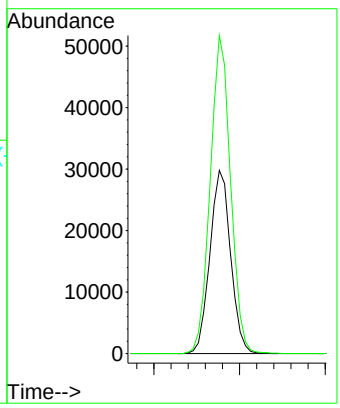
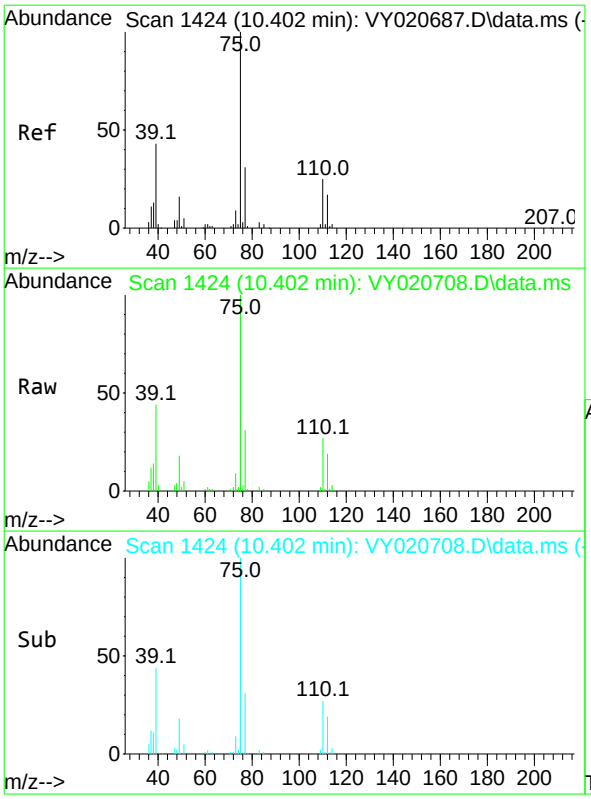



#52
Toluene
Concen: 19.986 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 92 Resp: 50060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.5 | 137.7 | 206.5 |

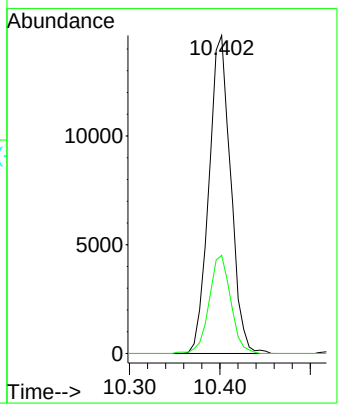





#53
t-1,3-Dichloropropene
Concen: 19.166 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 75 Resp: 24428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.1 | 37.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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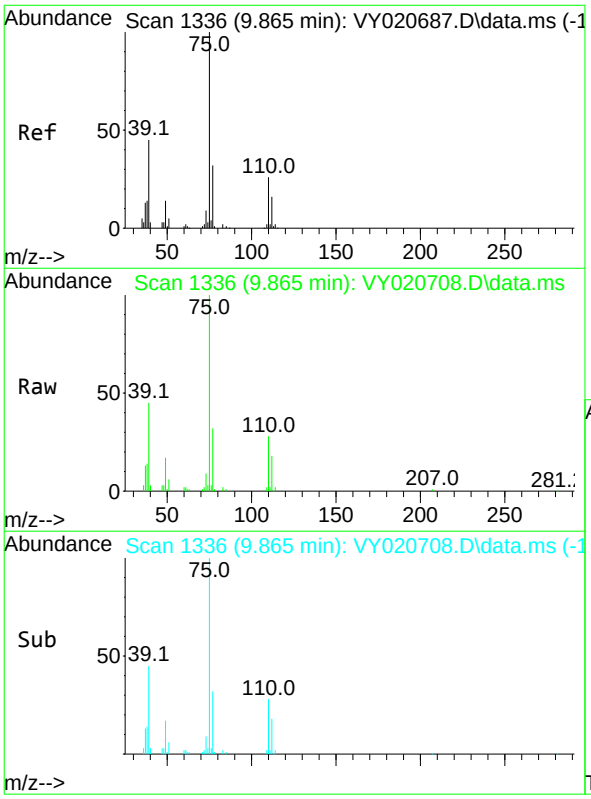
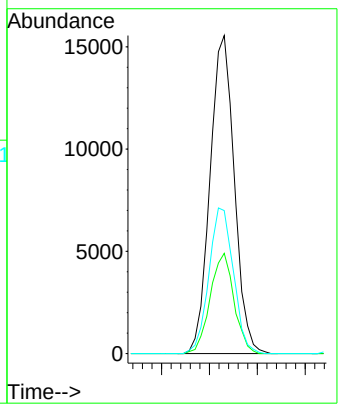
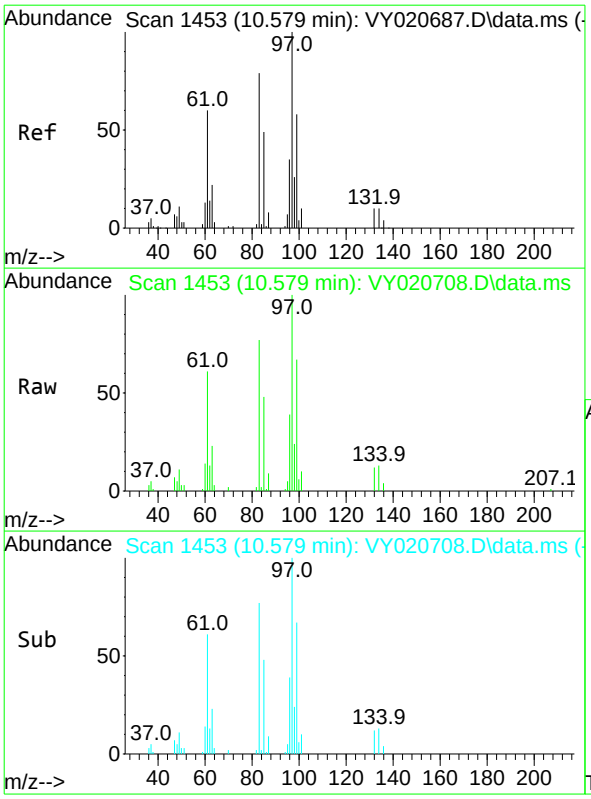



#54
cis-1,3-Dichloropropene
Concen: 19.625 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 75 Resp: 27417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.6 | 38.4 |
| 39 | 45.0 | 36.2 | 54.2 |

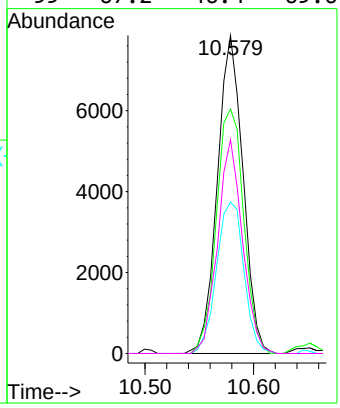





#55
1,1,2-Trichloroethane
Concen: 19.722 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 97 Resp: 12886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 76.8 | 63.1 | 94.7 |
| 85 | 47.6 | 39.5 | 59.3 |
| 99 | 67.2 | 46.4 | 69.6 |

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MSVOA_Y
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VSTDICC020

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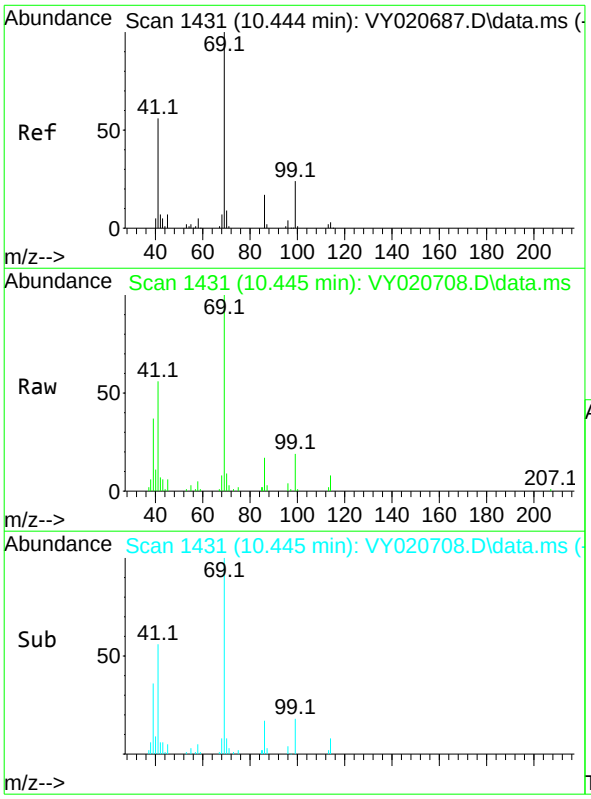
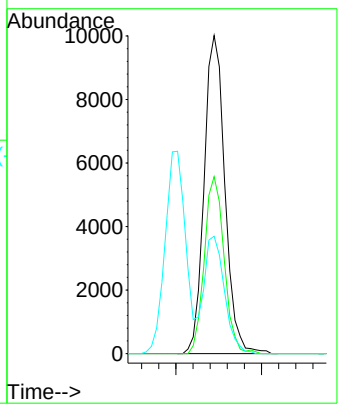
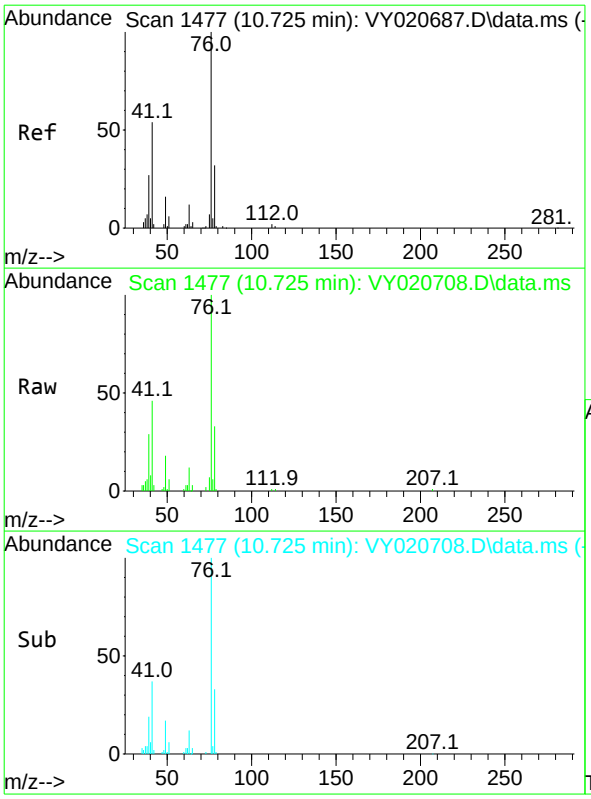



#56
Ethyl methacrylate
Concen: 19.607 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 69 Resp: 16830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 53.0 | 43.8 | 65.6 |
| 39 | 37.5 | 32.0 | 48.0 |

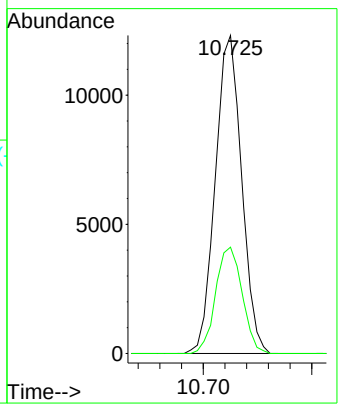





#57
1,3-Dichloropropane
Concen: 19.558 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 76 Resp: 20740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.7 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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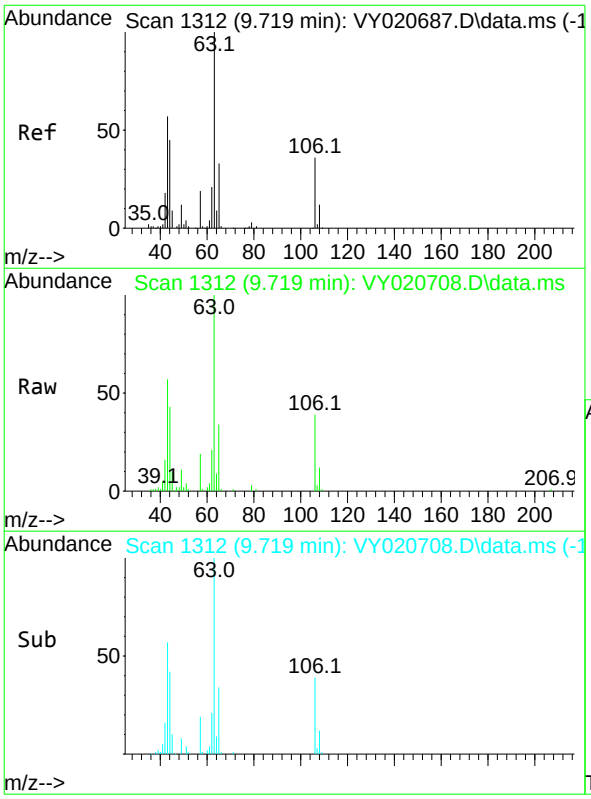
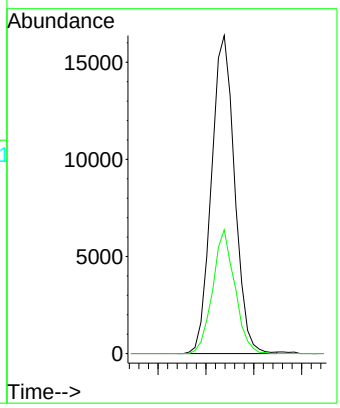
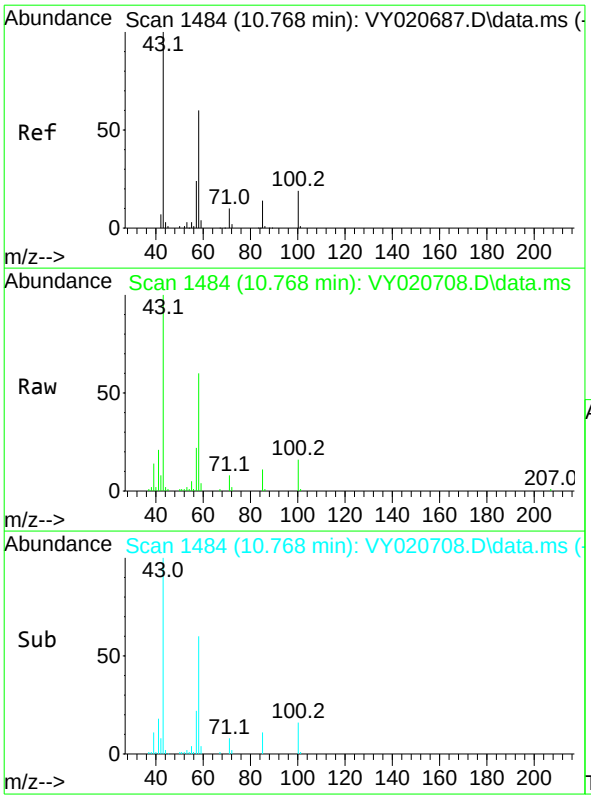



#58
2-Chloroethyl Vinyl ether
Concen: 91.985 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 63 Resp: 27533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 37.2 | 29.1 | 43.7 |

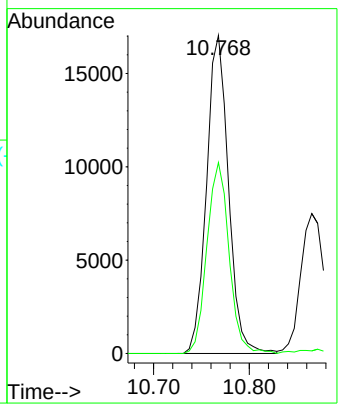





#59
2-Hexanone
Concen: 96.312 ug/l
RT: 10.768 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 27109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.5 | 30.1 | 90.5 |




**Instrument :**
MSVOA_Y
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VSTDICC020

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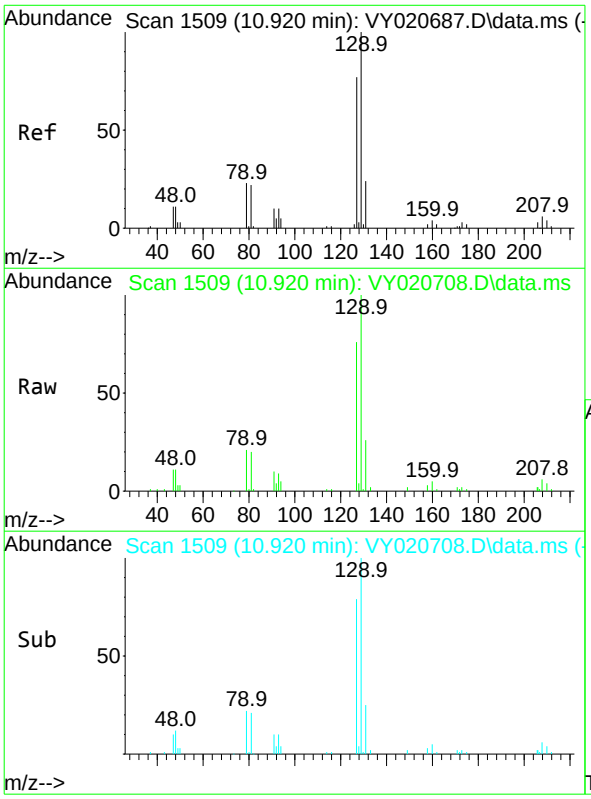
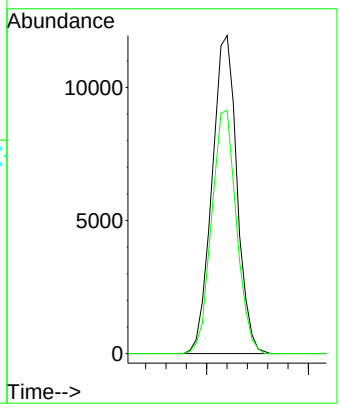
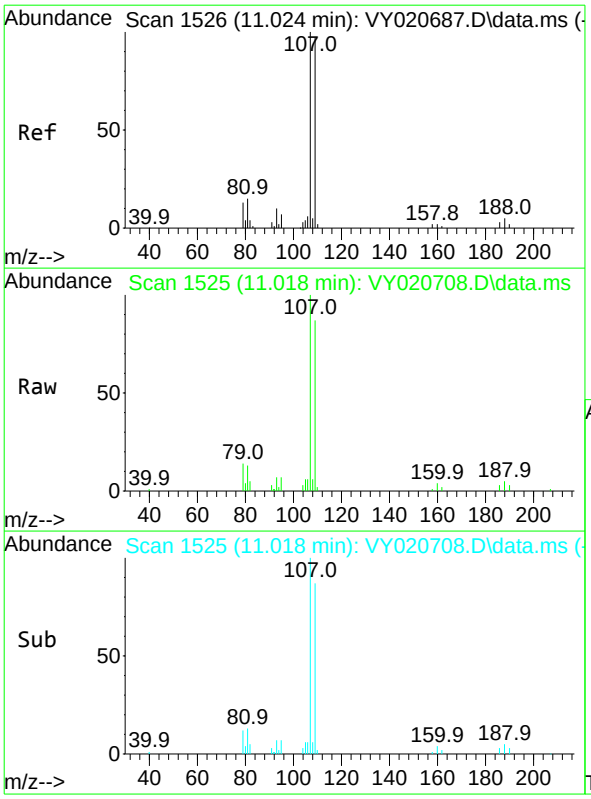



#60
Dibromochloromethane
Concen: 19.279 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:129 Resp: 20354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.2 | 38.5 | 115.5 |

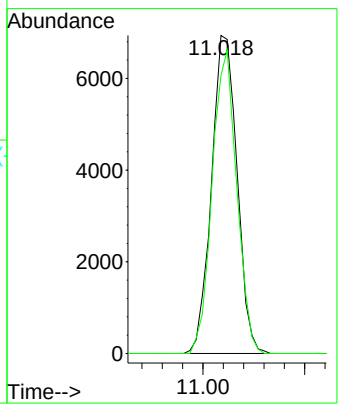





#61
1,2-Dibromoethane
Concen: 19.678 ug/l
RT: 11.018 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:107 Resp: 12098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.7 | 75.5 | 113.3 |

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**ClientSampleId :**
VSTDICC020

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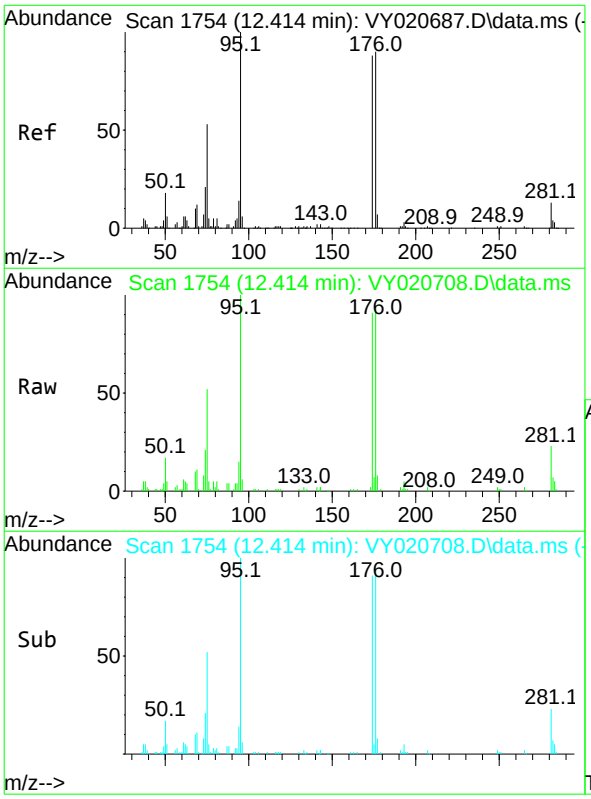
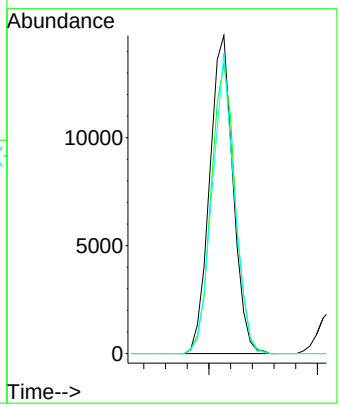
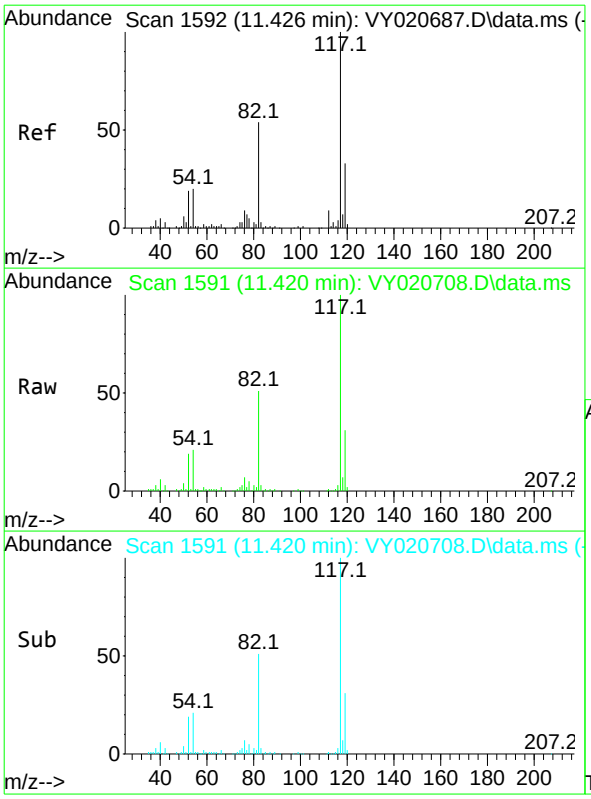



#62
4-Bromofluorobenzene
Concen: 17.414 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 95 Resp: 22093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 93.2 | 0.0 | 179.2 |
| 176 | 89.6 | 0.0 | 179.8 |

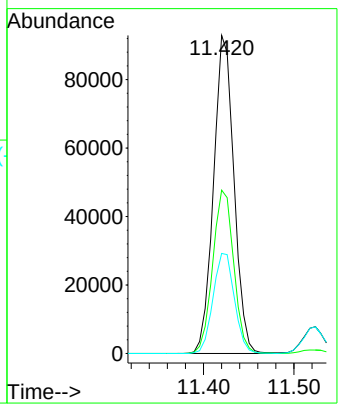





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:117 Resp: 146011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.4 | 43.4 | 65.2 |
| 119 | 31.5 | 26.6 | 39.8 |

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**ClientSampleId :**
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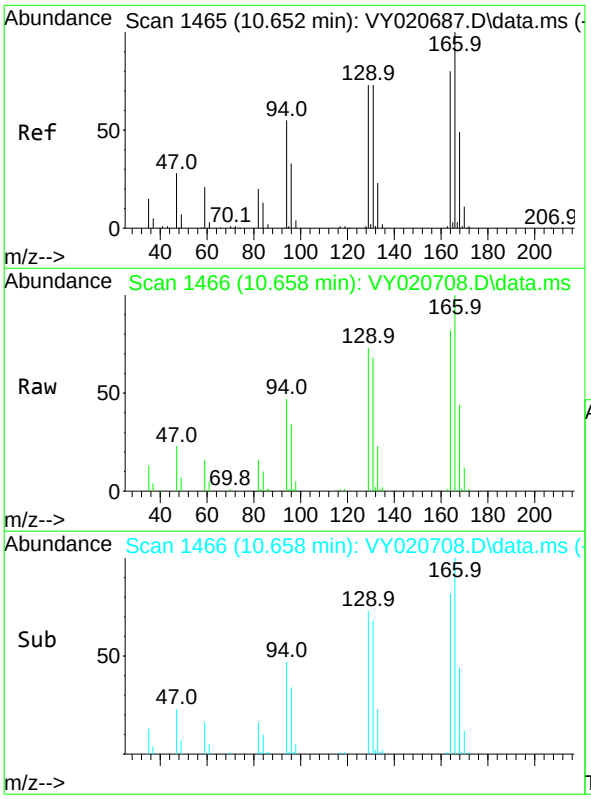
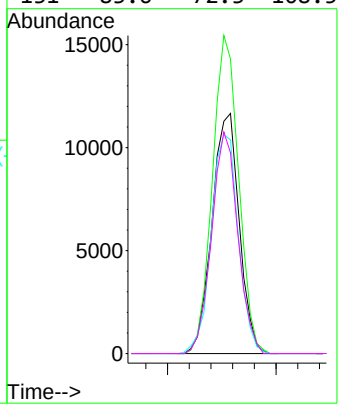
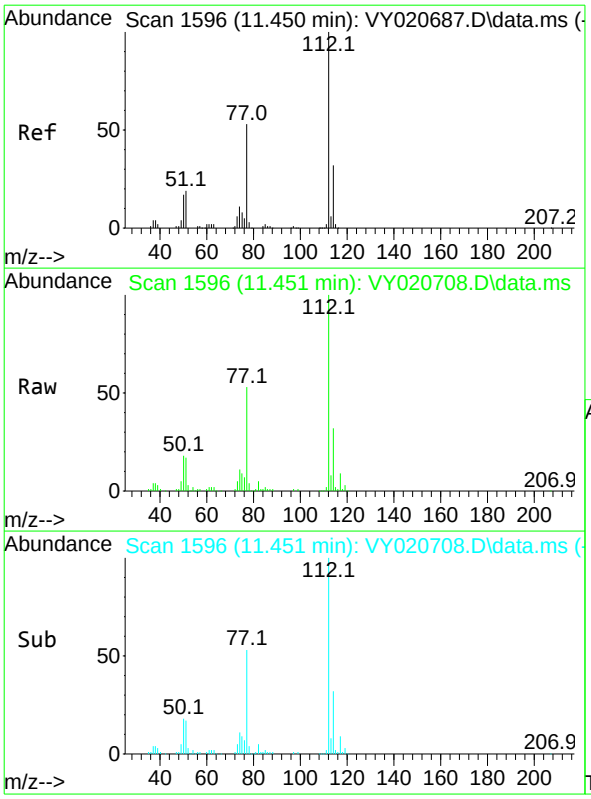



#64
Tetrachloroethene
Concen: 20.357 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:164 Resp: 20307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.6 | 99.6 | 149.4 |
| 129 | 89.0 | 73.0 | 109.4 |
| 131 | 83.6 | 72.3 | 108.5 |

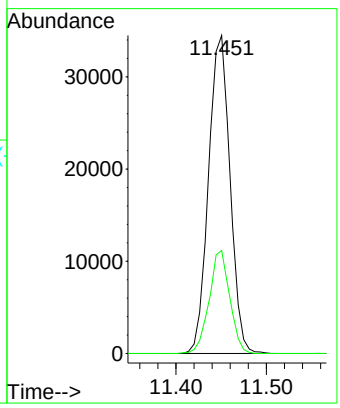





#65
Chlorobenzene
Concen: 19.935 ug/l
RT: 11.451 min Scan# 15
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:112 Resp: 56993

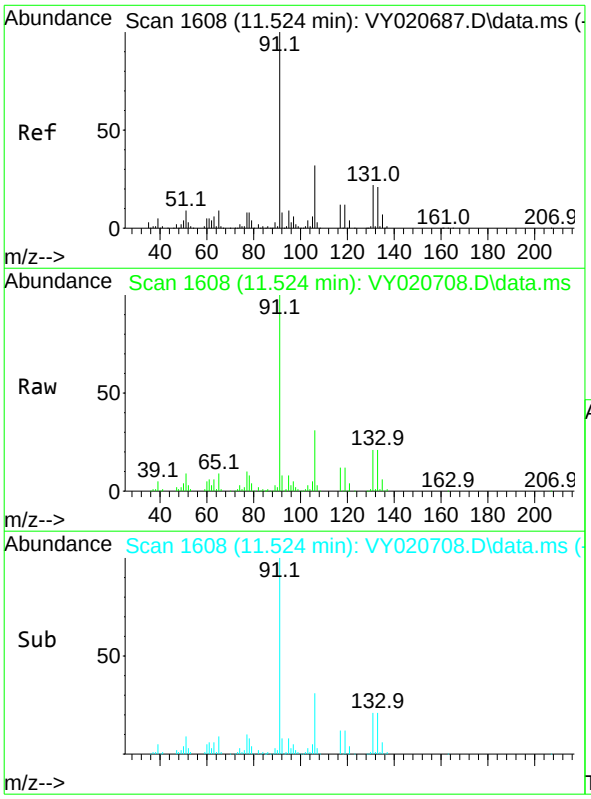
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

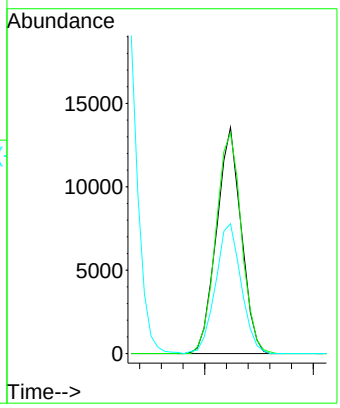
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

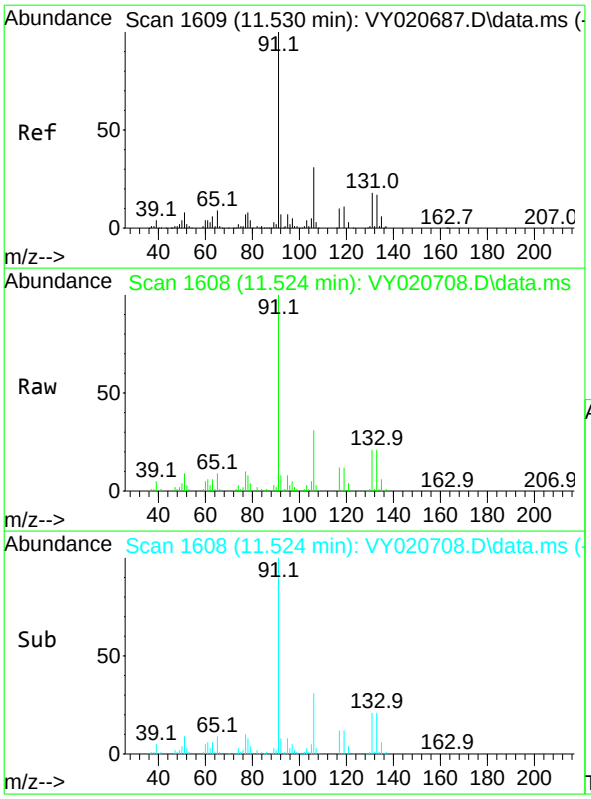



#66
1,1,1,2-Tetrachloroethane
Concen: 19.338 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:131 Resp: 21420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 101.4 | 48.6 | 145.9 |
| 119 | 59.5 | 28.4 | 85.3 |

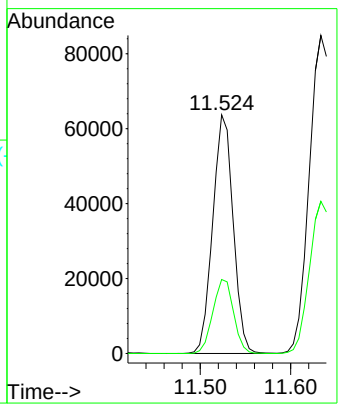





#67
Ethyl Benzene
Concen: 20.042 ug/l
RT: 11.524 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 91 Resp: 100148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.0 | 24.5 | 36.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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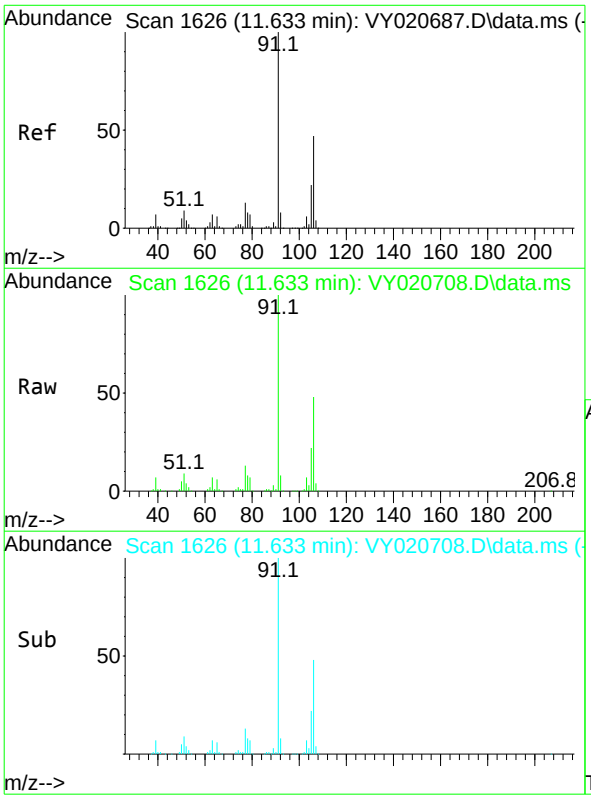
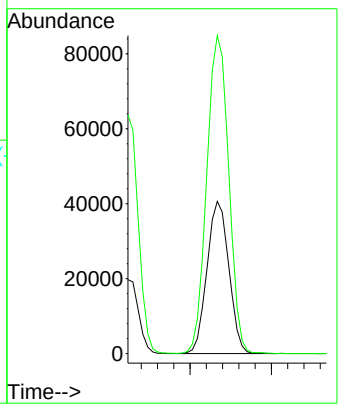
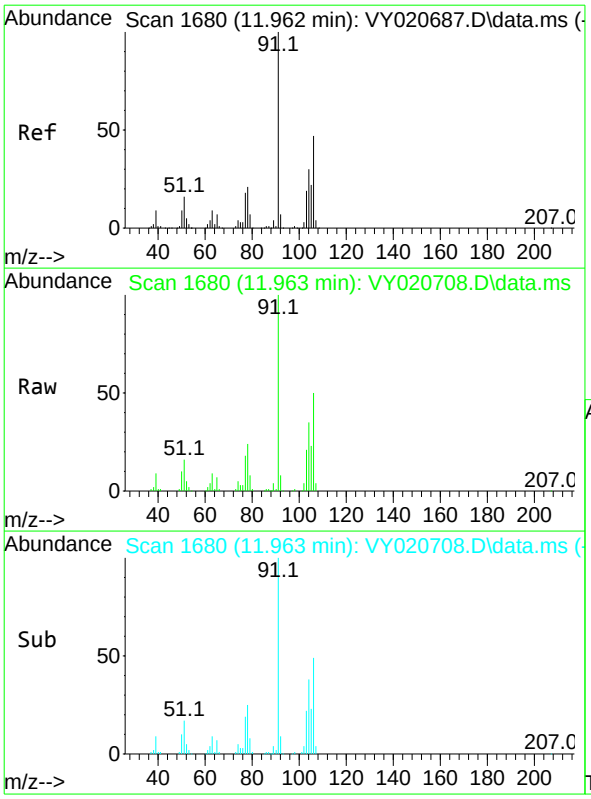



#68
m/p-Xylenes
Concen: 39.796 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:106 Resp: 75856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.8 | 166.6 | 250.0 |

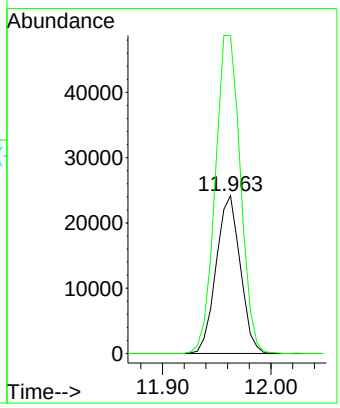





#69
o-Xylene
Concen: 20.482 ug/l
RT: 11.963 min Scan# 16
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:106 Resp: 37301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.4 | 108.6 | 325.8 |




**Instrument :**
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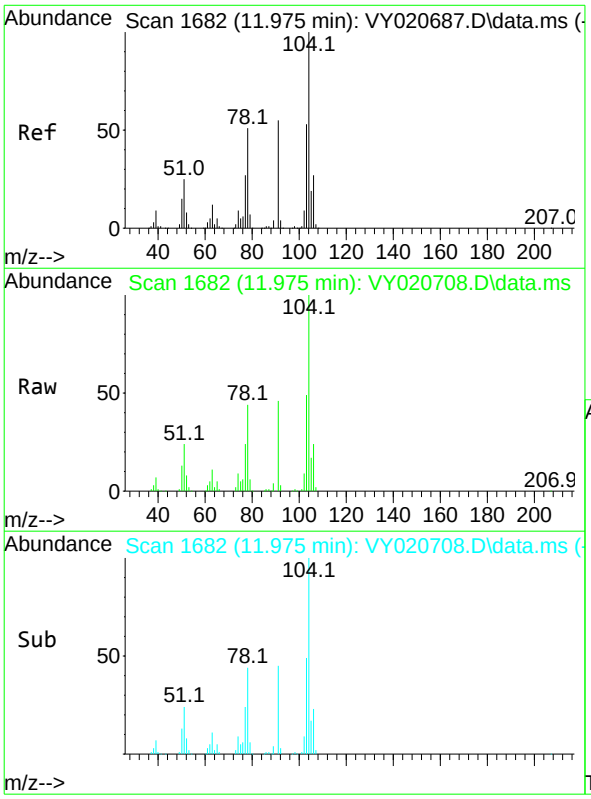
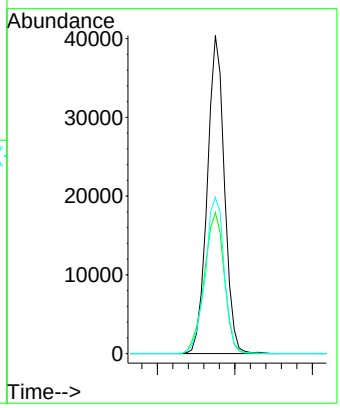
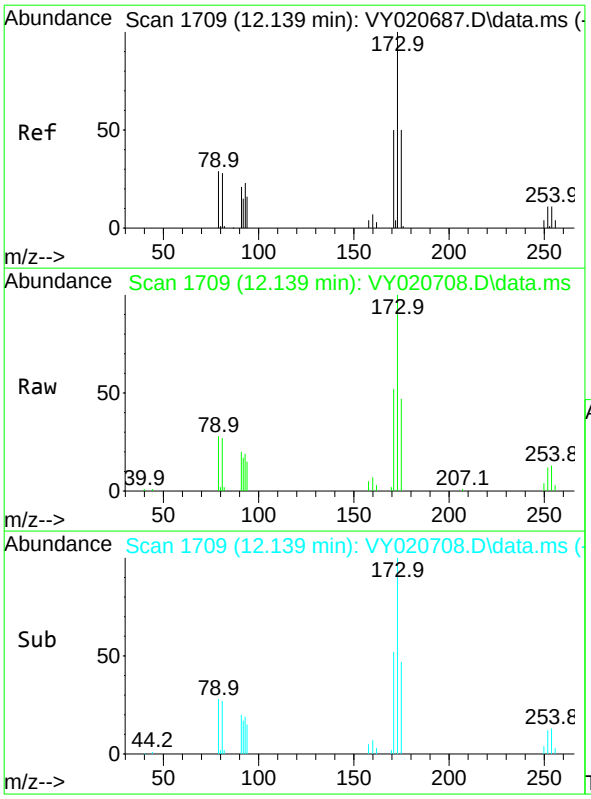



#70
Styrene
Concen: 20.262 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:104 Resp: 61946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.5 | 43.0 | 64.4 |
| 103 | 54.7 | 44.4 | 66.6 |

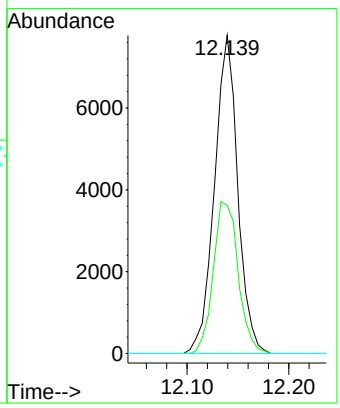





#71
Bromoform
Concen: 19.400 ug/l
RT: 12.139 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:173 Resp: 12354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.0 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

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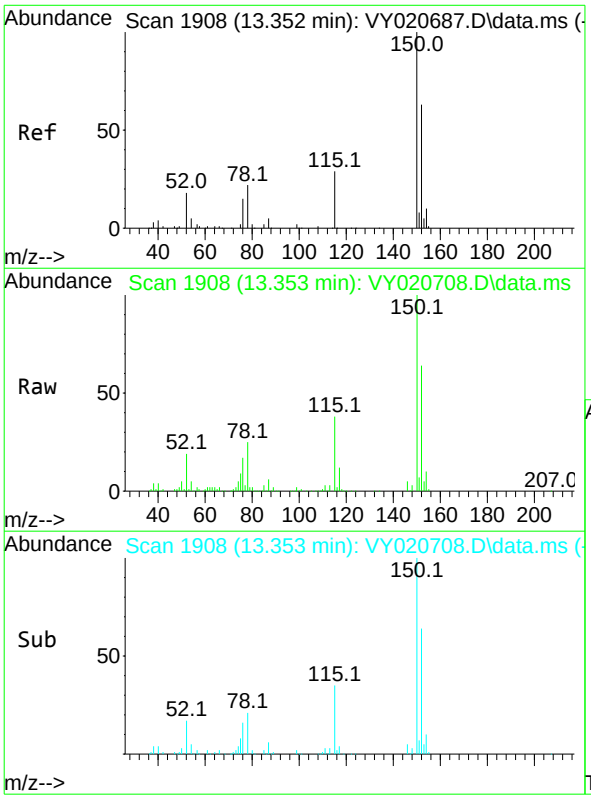
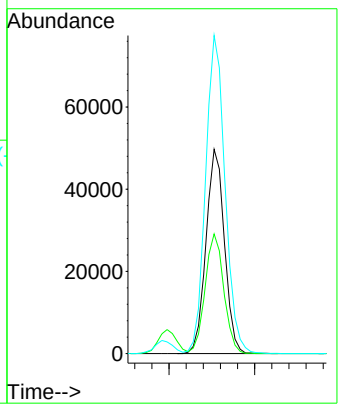
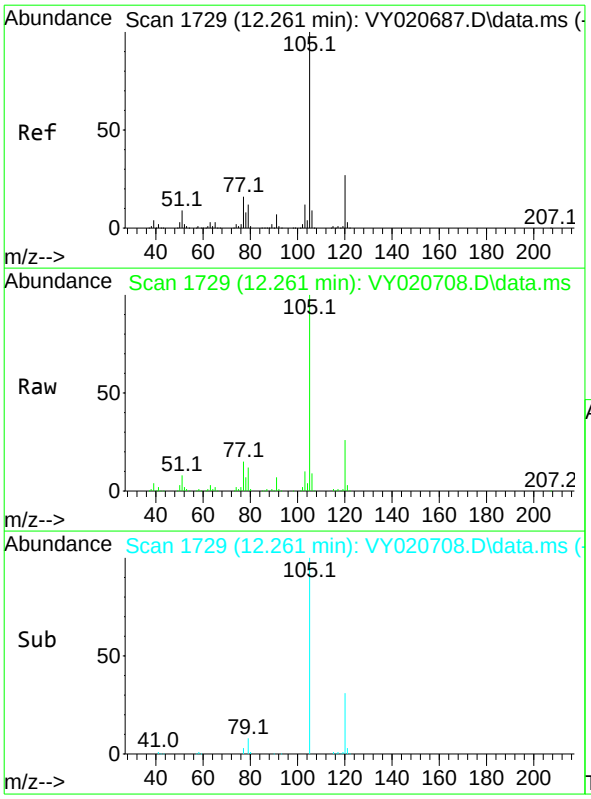



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:152 Resp: 74311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.2 | 30.3 | 90.9 |
| 150 | 164.5 | 0.0 | 349.0 |

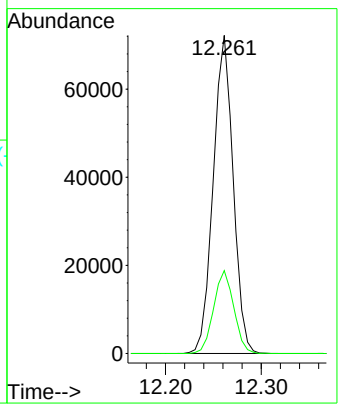





#73
Isopropylbenzene
Concen: 20.254 ug/l
RT: 12.261 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:105 Resp: 104274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.3 | 39.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

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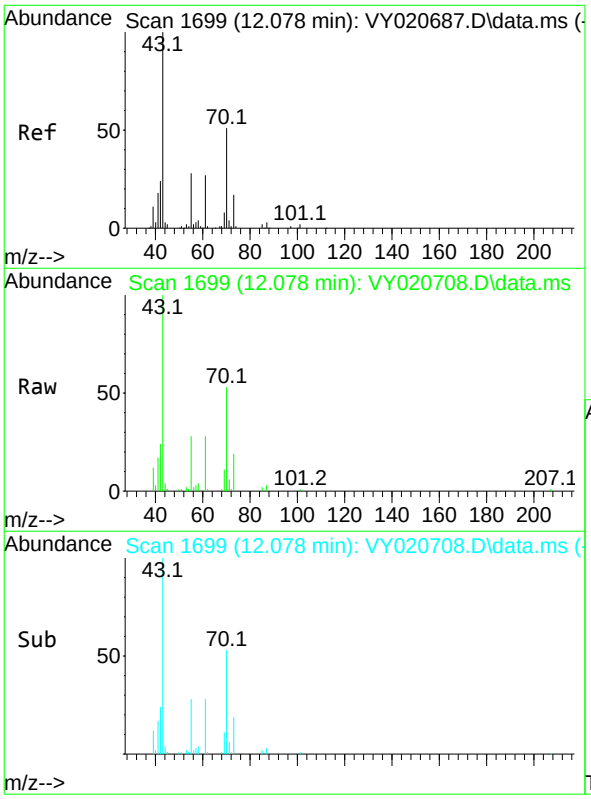
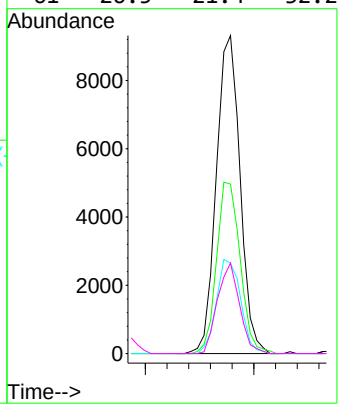
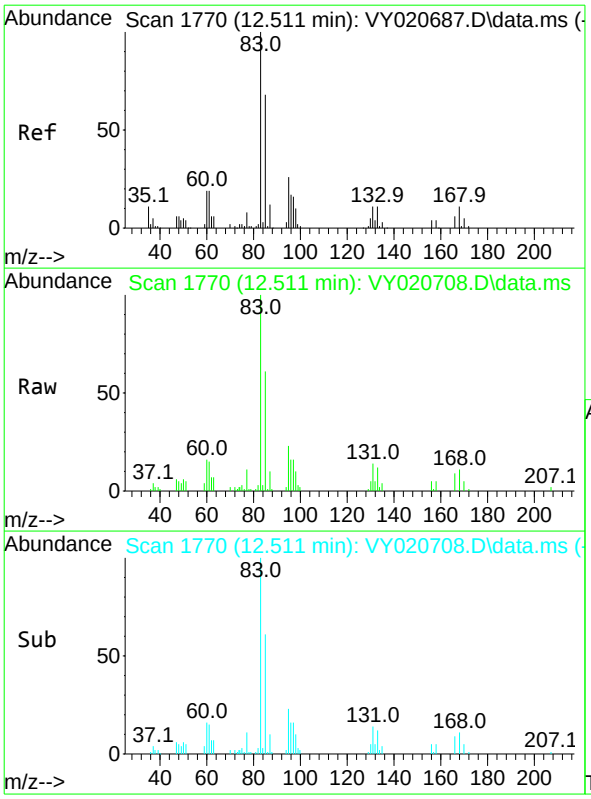



#74
N-amyl acetate
Concen: 19.346 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 14154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 53.5 | 39.7 | 59.5 |
| 55 | 30.2 | 21.5 | 32.3 |
| 61 | 26.5 | 21.4 | 32.2 |

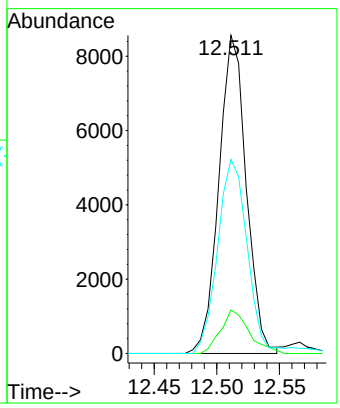





#75
1,1,2,2-Tetrachloroethane
Concen: 19.742 ug/l
RT: 12.511 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 83 Resp: 13030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.2 | 6.9 | 20.7 |
| 85 | 65.8 | 32.5 | 97.4 |

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VSTDICC020

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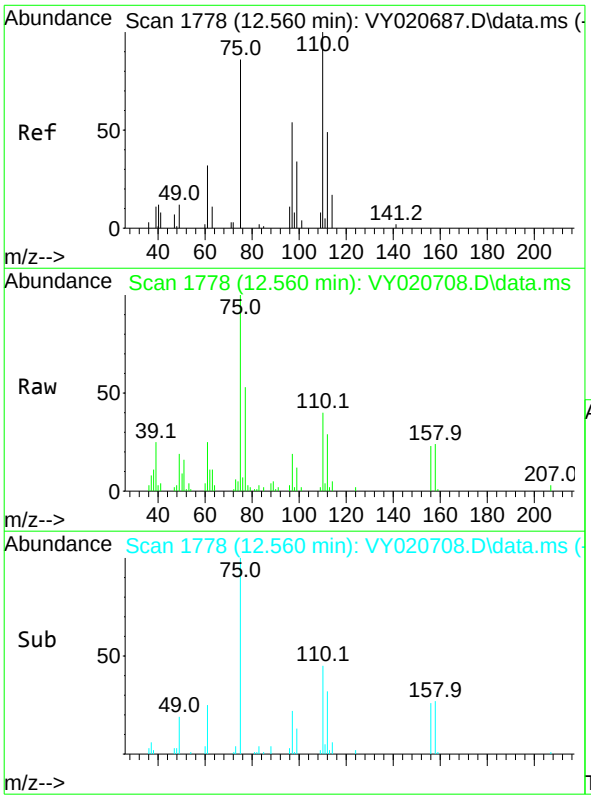
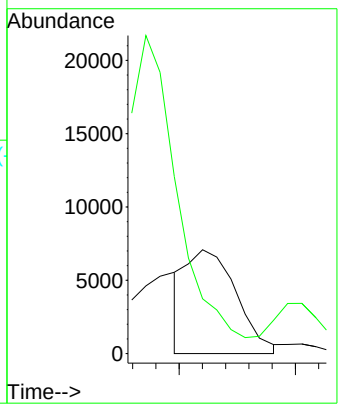
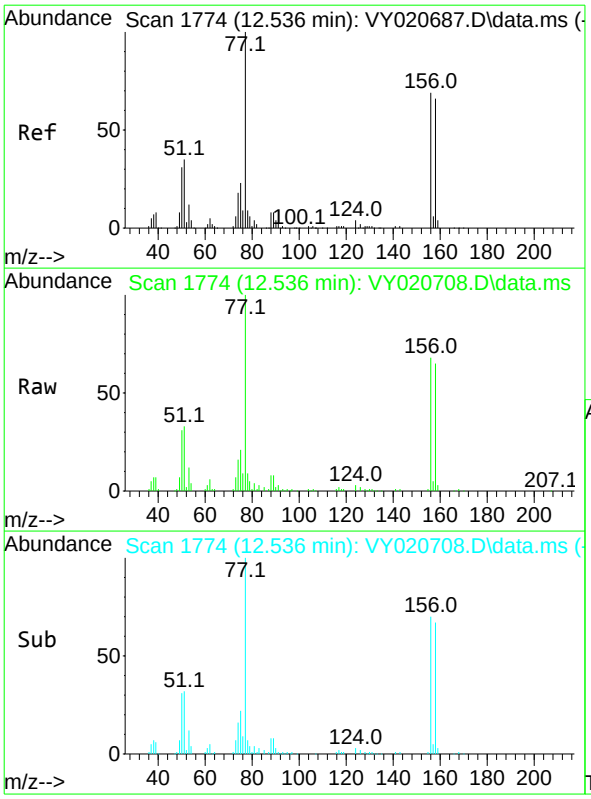



#76
1,2,3-Trichloropropane
Concen: 18.239 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 75 Resp: 10691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |






#77
Bromobenzene
Concen: 19.534 ug/l
RT: 12.536 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:156 Resp: 23151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 155.8 | 78.3 | 235.0 |
| 158 | 99.5 | 48.3 | 144.9 |

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VSTDICC020

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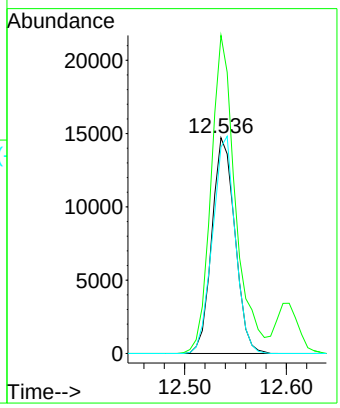
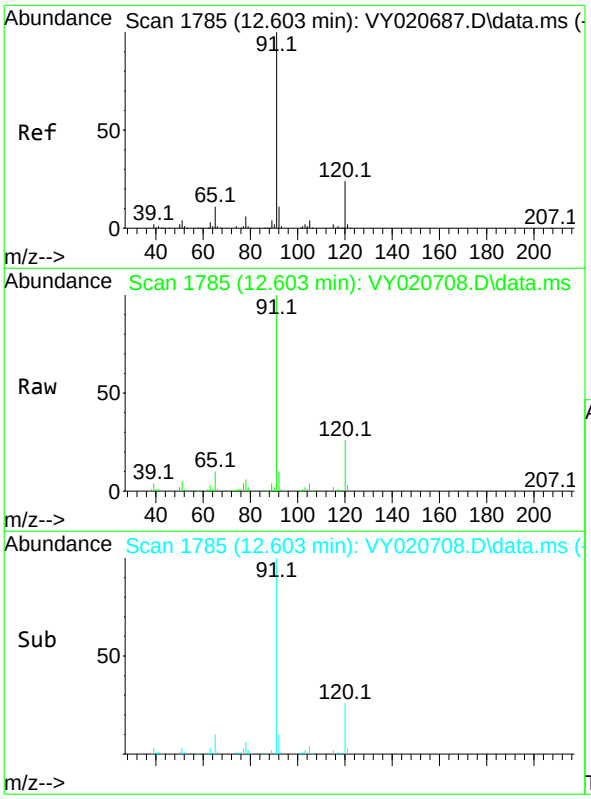
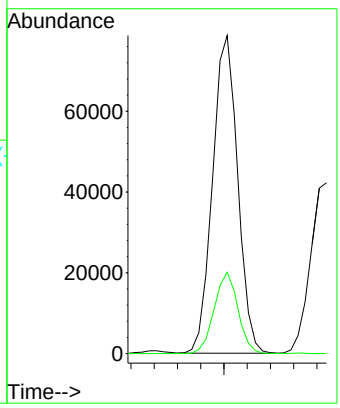


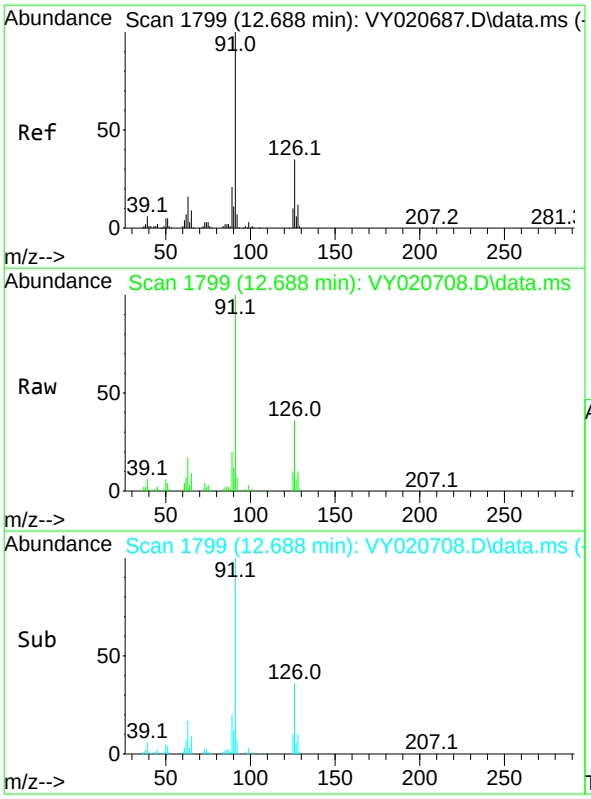




#78
n-propylbenzene
Concen: 20.458 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 91 Resp: 118053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.1 | 12.3 | 36.8 |

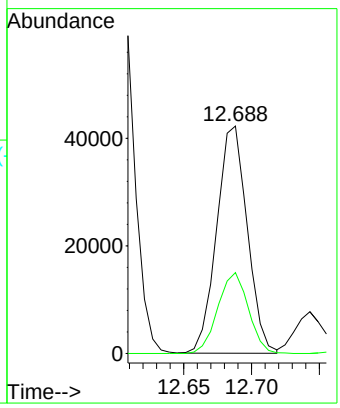





#79
2-Chlorotoluene
Concen: 20.135 ug/l
RT: 12.688 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 91 Resp: 66234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.4 | 17.8 | 53.3 |

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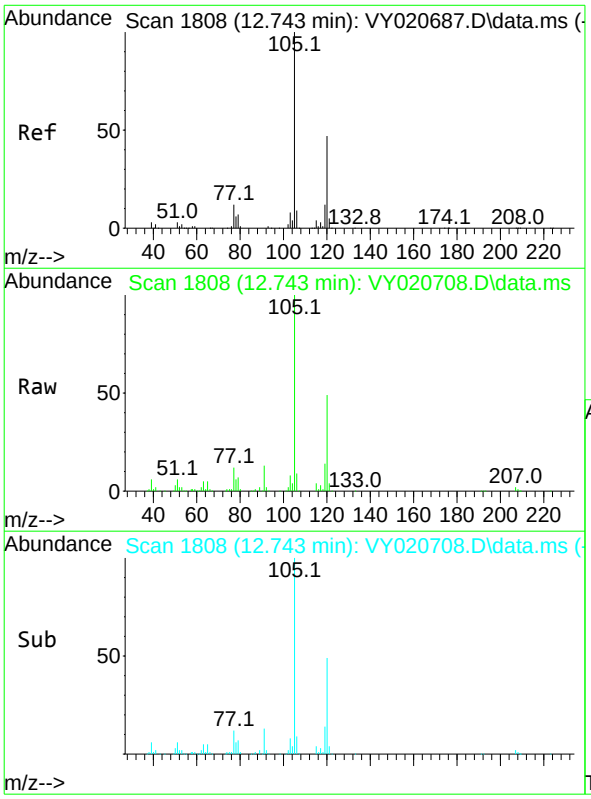
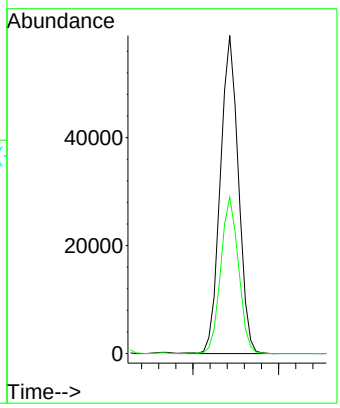
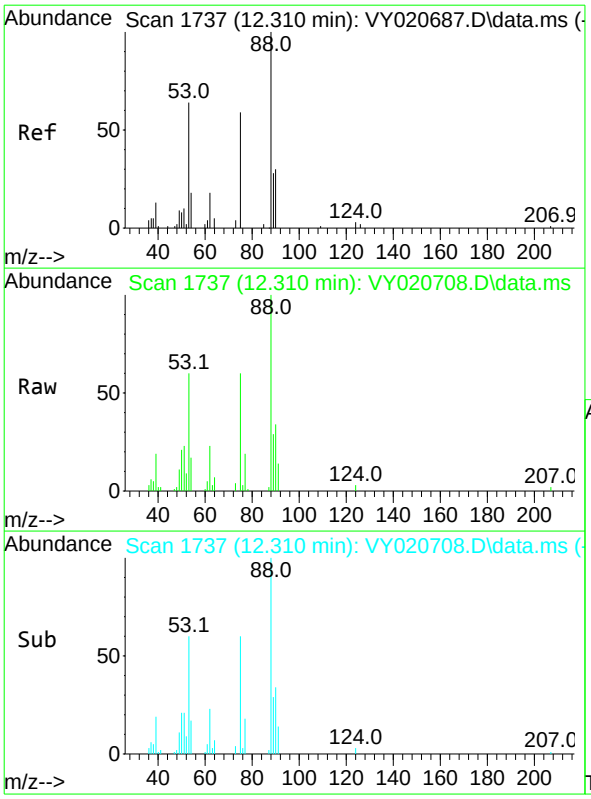



#80
1,3,5-Trimethylbenzene
Concen: 20.157 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:105 Resp: 86460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.4 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 19.322 ug/l
RT: 12.310 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 75 Resp: 4620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 112.4 | 83.1 | 124.7 |
| 89 | 58.5 | 40.6 | 61.0 |

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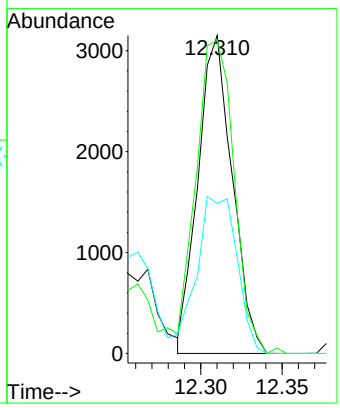
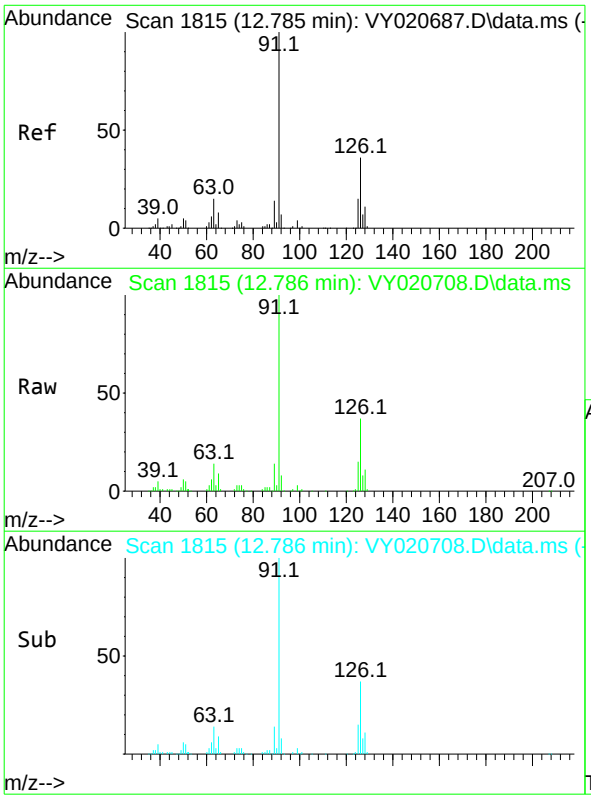
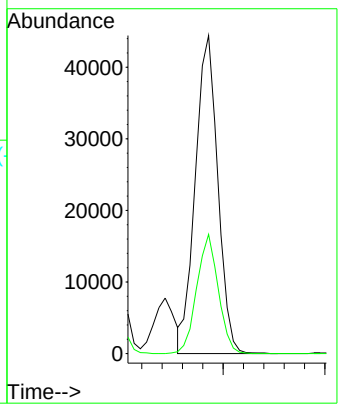


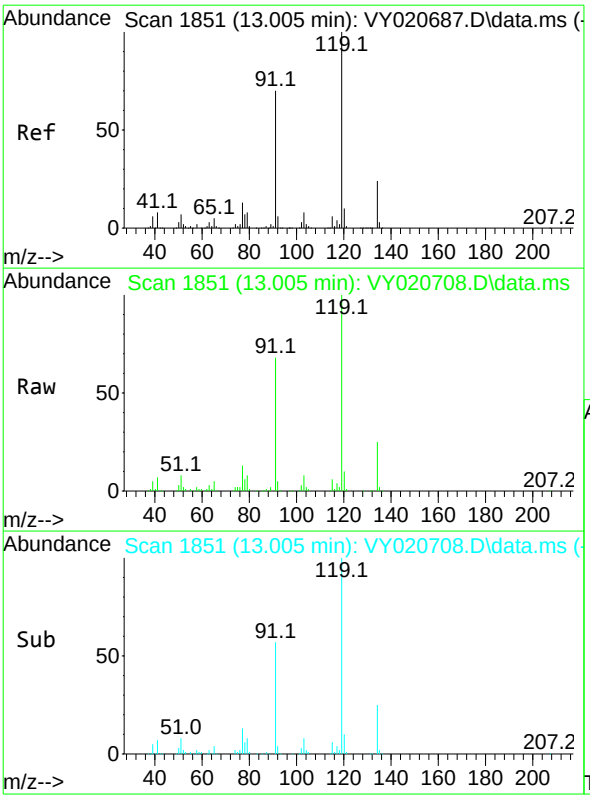




#82
4-Chlorotoluene
Concen: 20.057 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 91 Resp: 68187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.8 | 17.8 | 53.5 |

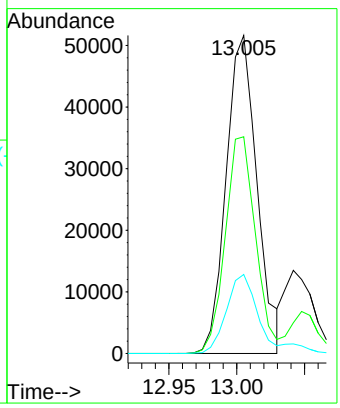





#83
tert-Butylbenzene
Concen: 20.410 ug/l
RT: 13.005 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:119 Resp: 81757

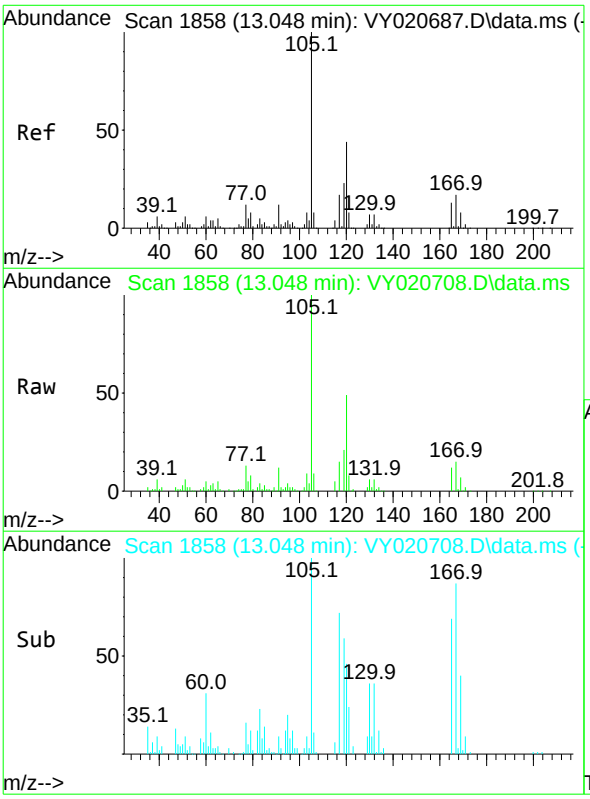
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.7 | 33.6 | 100.8 |
| 134 | 26.8 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

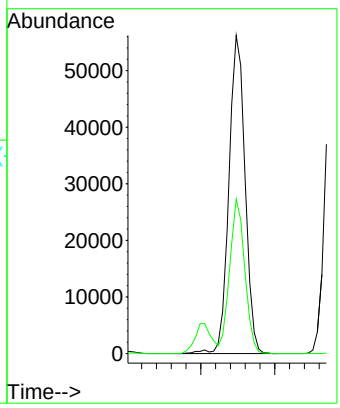
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

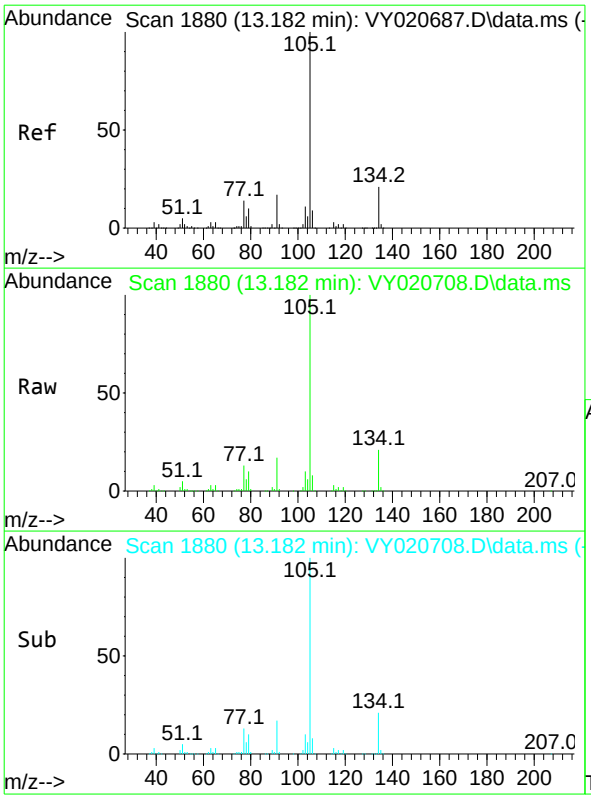



#84
1,2,4-Trimethylbenzene
Concen: 20.370 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:105 Resp: 85025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.6 | 21.8 | 65.3 |

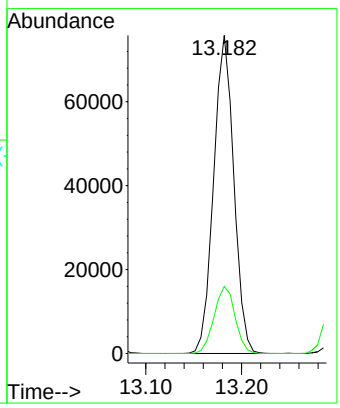





#85
sec-Butylbenzene
Concen: 20.536 ug/l
RT: 13.182 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:105 Resp: 110869

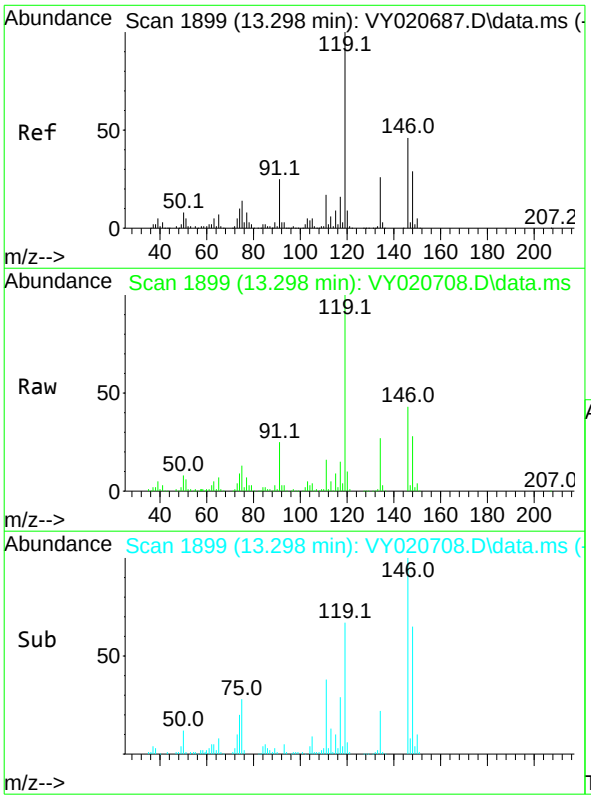
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.9 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

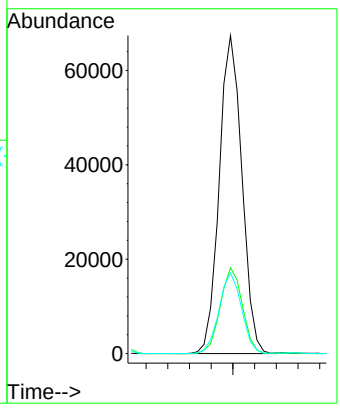
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

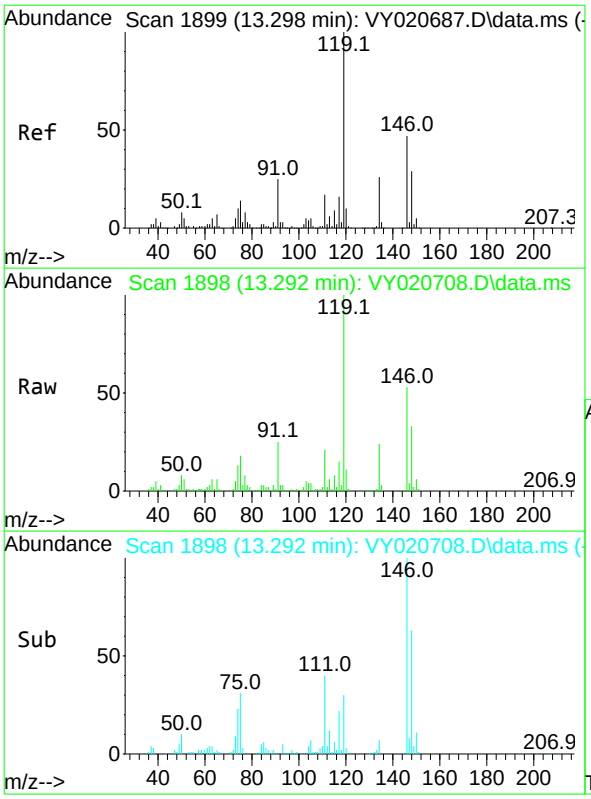



#86
p-Isopropyltoluene
Concen: 20.311 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:119 Resp: 97722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.4 | 40.2 |
| 91 | 25.2 | 12.9 | 38.6 |

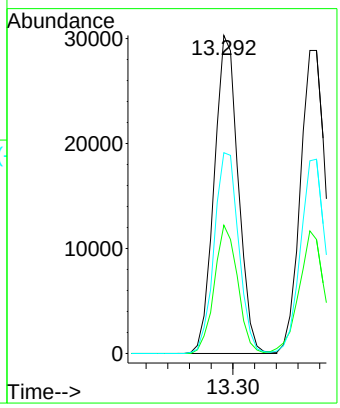





#87
1,3-Dichlorobenzene
Concen: 20.113 ug/l
RT: 13.292 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:146 Resp: 46587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.3 | 57.8 |
| 148 | 64.3 | 31.1 | 93.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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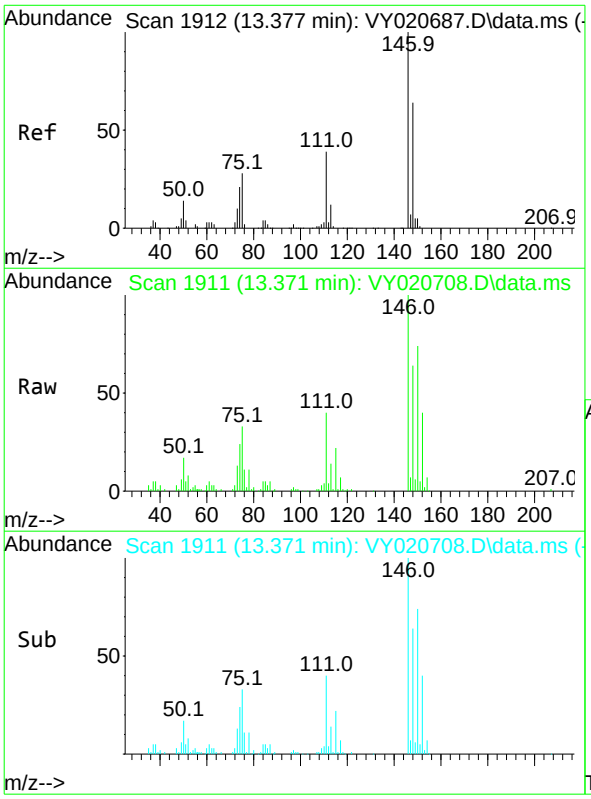
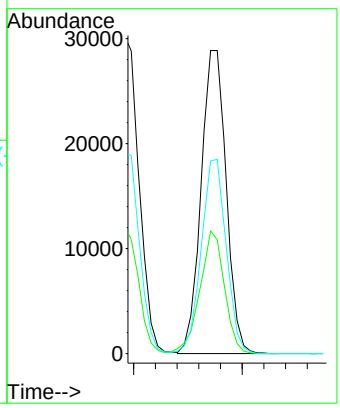
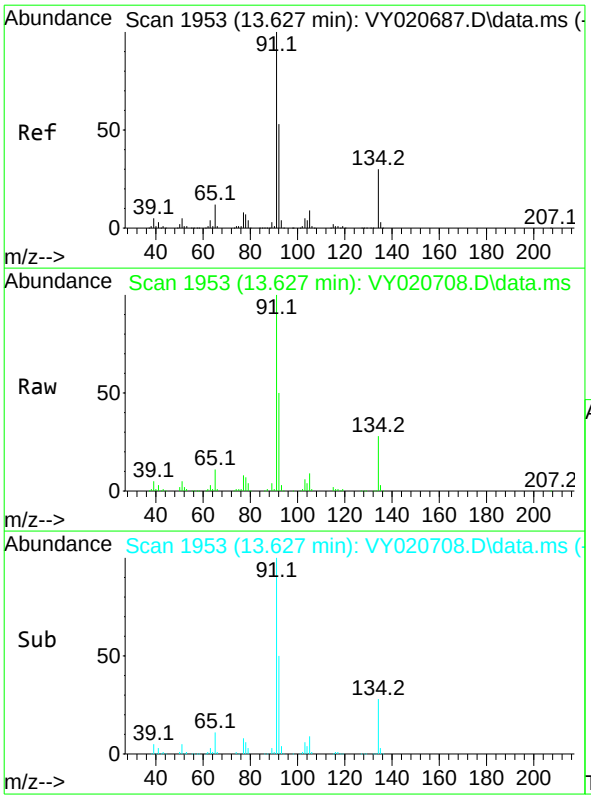



#88
1,4-Dichlorobenzene
Concen: 20.154 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:146 Resp: 46439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.6 | 19.7 | 59.0 |
| 148 | 63.7 | 32.8 | 98.3 |

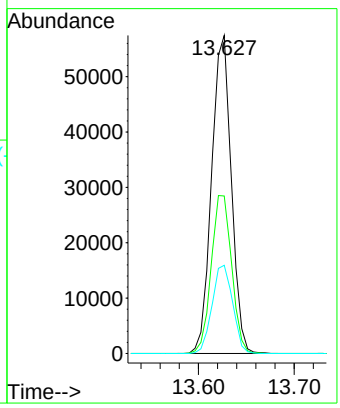





#89
n-Butylbenzene
Concen: 20.454 ug/l
RT: 13.627 min Scan# 19
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 91 Resp: 82147

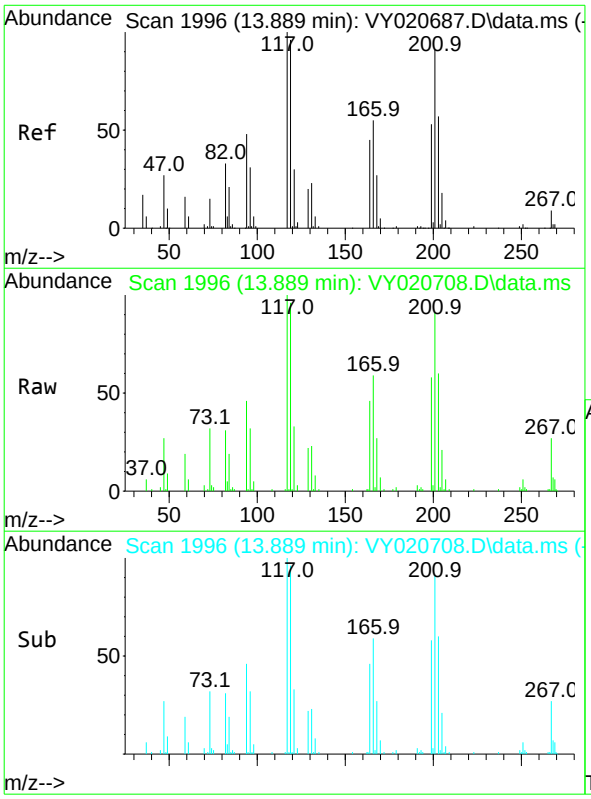
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.6 | 26.1 | 78.2 |
| 134 | 28.9 | 14.8 | 44.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

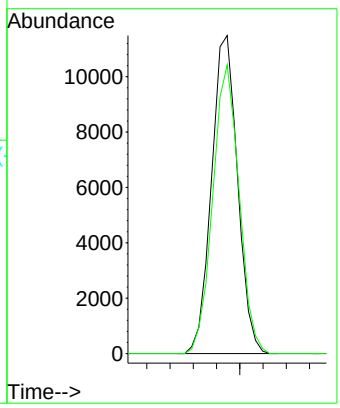
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

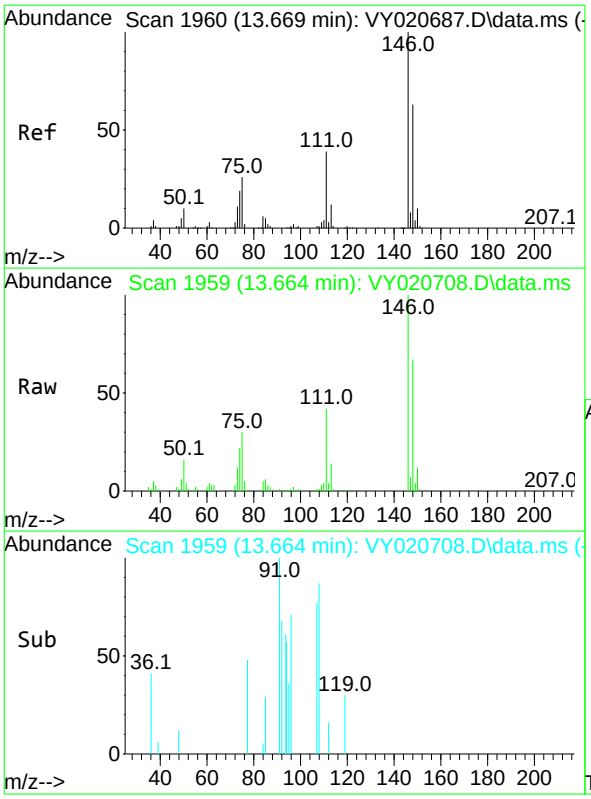



#90
Hexachloroethane
Concen: 19.517 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:117 Resp: 17856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 91.7 | 44.9 | 134.7 |

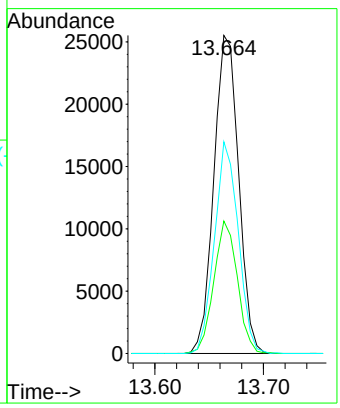





#91
1,2-Dichlorobenzene
Concen: 20.378 ug/l
RT: 13.664 min Scan# 19
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:146 Resp: 40471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 20.3 | 60.8 |
| 148 | 64.1 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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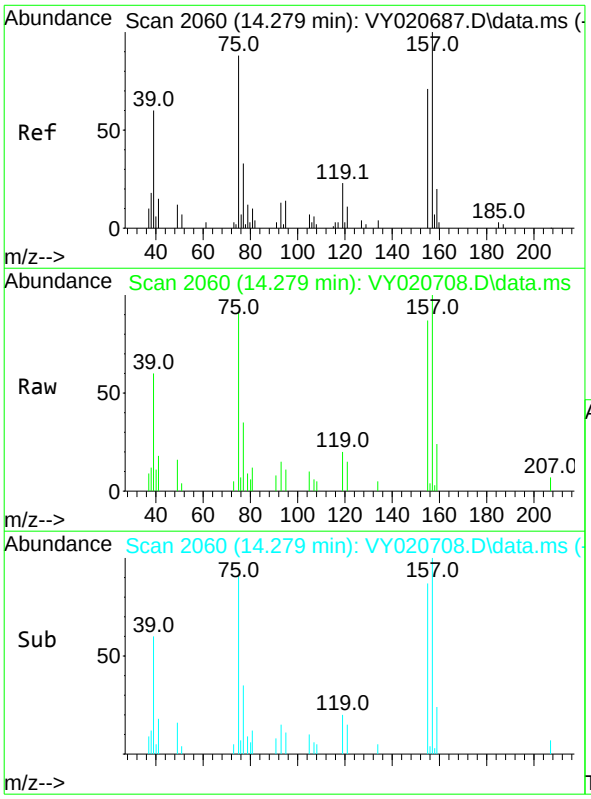
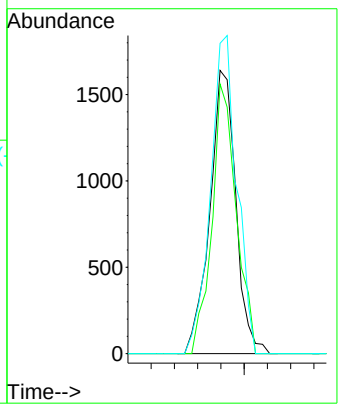
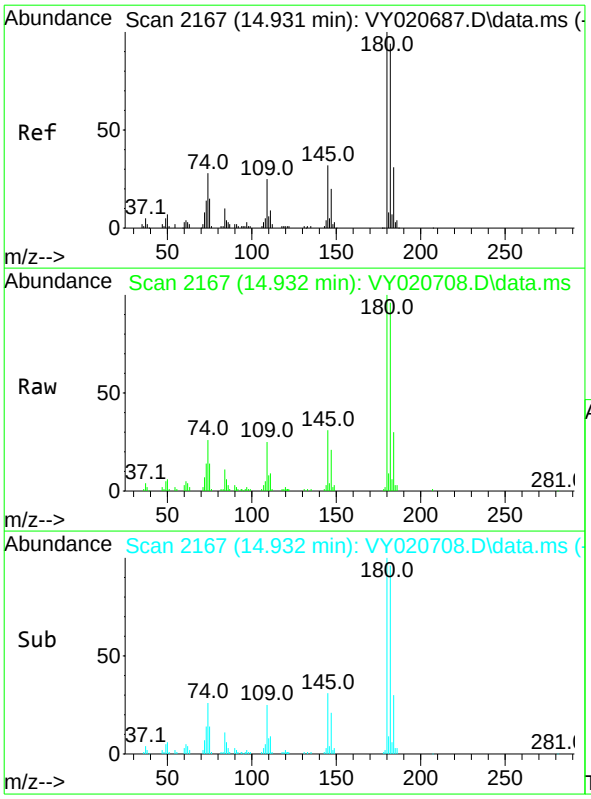



#92
1,2-Dibromo-3-Chloropropane
Concen: 19.905 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 75 Resp: 2548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.6 | 43.4 | 130.2 |
| 157 | 113.3 | 58.6 | 175.7 |

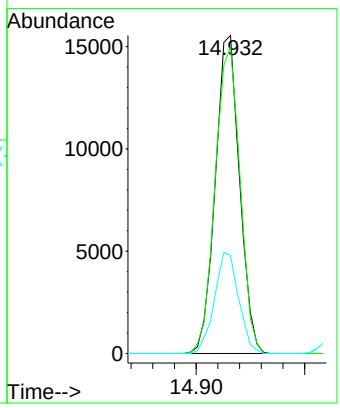





#93
1,2,4-Trichlorobenzene
Concen: 19.089 ug/l
RT: 14.932 min Scan# 21
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:180 Resp: 24098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 99.1 | 47.9 | 143.7 |
| 145 | 31.8 | 15.6 | 46.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

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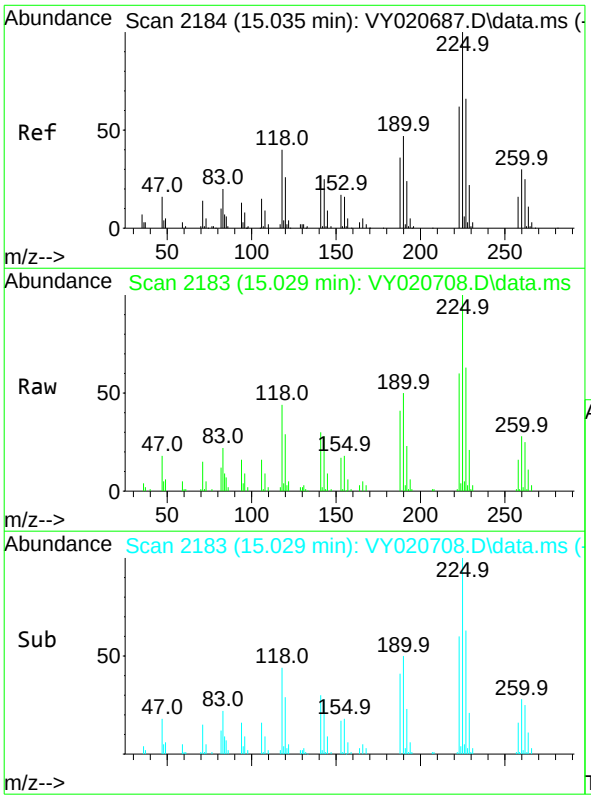
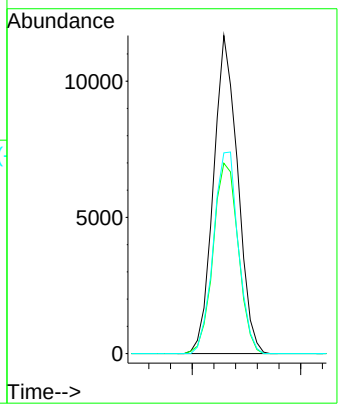
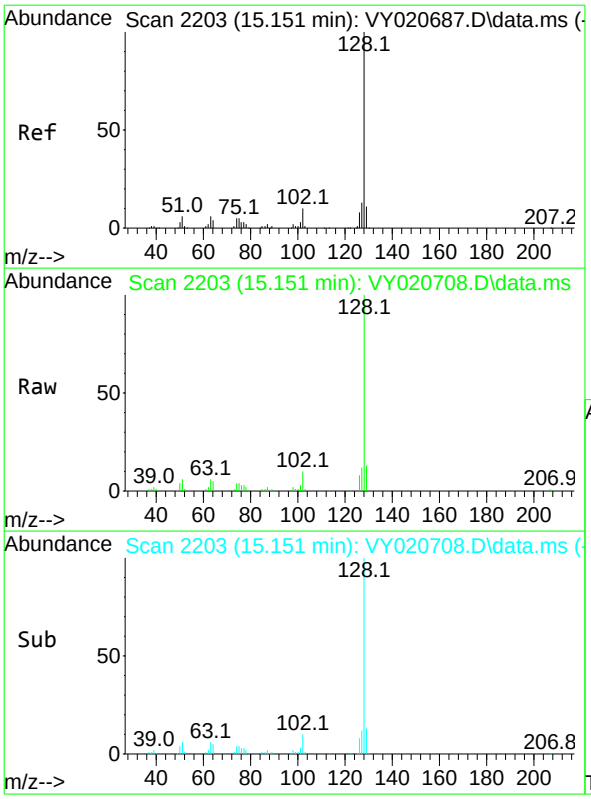



#94
Hexachlorobutadiene
Concen: 19.654 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:225 Resp: 18082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.3 | 93.8 |
| 227 | 65.2 | 32.1 | 96.5 |

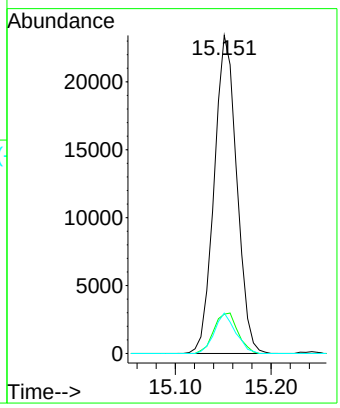





#95
Naphthalene
Concen: 18.968 ug/l
RT: 15.151 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:128 Resp: 38351

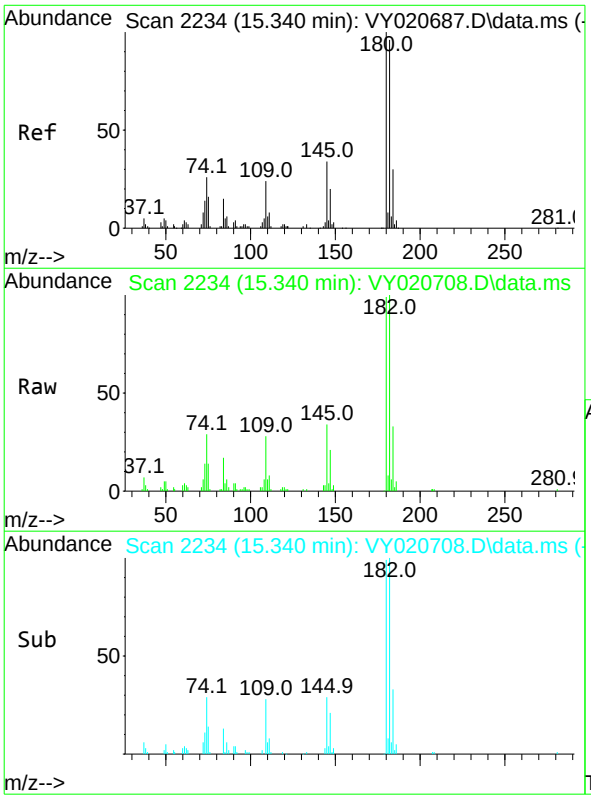
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.7 | 16.1 |
| 129 | 11.9 | 8.6 | 12.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

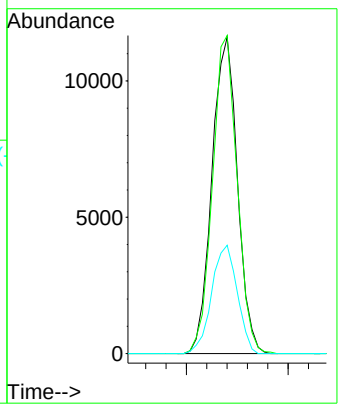
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024




#96
1,2,3-Trichlorobenzene
Concen: 19.187 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:180 Resp: 20167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.2 | 47.4 | 142.2 |
| 145 | 34.5 | 16.7 | 50.1 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020709.D
Acq On : 26 Dec 2024 10:39
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:06:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 95919 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 134605 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 116249 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 60351 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 49534 | 63.047 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 126.100% | | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 42955 | 57.936 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 115.880% | | | | |
| 50) Toluene-d8 | 10.115 | 98 | 165135 | 55.802 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 111.600% | | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 57393 | 58.248 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 116.500% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 38801 | 51.393 | ug/l | | 98 |
| 3) Chloromethane | 2.074 | 50 | 15038 | 53.407 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.214 | 62 | 18435 | 52.843 | ug/l | | 99 |
| 5) Bromomethane | 2.611 | 94 | 13527 | 51.355 | ug/l | | 93 |
| 6) Chloroethane | 2.745 | 64 | 10817 | 51.686 | ug/l | | 98 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 68580 | 51.119 | ug/l | | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 17063 | 53.449 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 37468 | 50.872 | ug/l | | 99 |
| 10) Methyl Iodide | 4.019 | 142 | 43478 | 53.984 | ug/l | | 97 |
| 11) Tert butyl alcohol | 4.879 | 59 | 13467 | 276.533 | ug/l | # | 91 |
| 12) 1,1-Dichloroethene | 3.806 | 96 | 33758 | 51.495 | ug/l | | 97 |
| 13) Acrolein | 3.665 | 56 | 3048 | 185.584 | ug/l | | 98 |
| 14) Allyl chloride | 4.397 | 41 | 39674 | 51.717 | ug/l | | 96 |
| 15) Acrylonitrile | 5.074 | 53 | 34070 | 276.260 | ug/l | | 98 |
| 16) Acetone | 3.879 | 43 | 26066 | 261.525 | ug/l | | 97 |
| 17) Carbon Disulfide | 4.123 | 76 | 86912 | 54.046 | ug/l | | 100 |
| 18) Methyl Acetate | 4.397 | 43 | 15232 | 56.466 | ug/l | | 97 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 97389 | 53.300 | ug/l | | 96 |
| 20) Methylene Chloride | 4.635 | 84 | 32892 | 50.741 | ug/l | | 93 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 37498 | 53.081 | ug/l | | 95 |
| 22) Diisopropyl ether | 6.031 | 45 | 82233 | 52.731 | ug/l | | 98 |
| 23) Vinyl Acetate | 5.976 | 43 | 257552 | 276.499 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 59422 | 50.822 | ug/l | | 99 |
| 25) 2-Butanone | 6.903 | 43 | 38144 | 283.310 | ug/l | | 97 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 71954 | 50.280 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 6.903 | 96 | 44338 | 52.410 | ug/l | | 97 |
| 28) Bromochloromethane | 7.256 | 49 | 18465 | 59.719 | ug/l | | 96 |
| 29) Tetrahydrofuran | 7.274 | 42 | 23409 | 283.255 | ug/l | | 96 |
| 30) Chloroform | 7.433 | 83 | 75540 | 50.224 | ug/l | | 93 |
| 31) Cyclohexane | 7.713 | 56 | 48960 | 48.512 | ug/l | | 99 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 82365 | 51.087 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 50348 | 51.408 | ug/l | | 99 |
| 37) Ethyl Acetate | 7.000 | 43 | 17946 | 55.607 | ug/l | | 99 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 82604 | 51.220 | ug/l | | 97 |
| 39) Methylcyclohexane | 9.116 | 83 | 65222 | 51.957 | ug/l | | 99 |
| 40) Benzene | 8.091 | 78 | 146525 | 51.623 | ug/l | | 97 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020709.D
Acq On : 26 Dec 2024 10:39
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:06:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 7518 | 46.116 | ug/l | # | 71 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 49005 | 53.844 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.207 | 43 | 38693 | 56.406 | ug/l | | 99 |
| 44) Trichloroethene | 8.872 | 130 | 43575 | 51.399 | ug/l | | 90 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 30307 | 52.749 | ug/l | | 95 |
| 46) Dibromomethane | 9.238 | 93 | 21455 | 53.969 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.433 | 83 | 58285 | 51.714 | ug/l | | 93 |
| 48) Methyl methacrylate | 9.225 | 41 | 17575 | 54.863 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.238 | 88 | 4523 | 1194.426 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 93936 | 283.711 | ug/l | | 99 |
| 52) Toluene | 10.176 | 92 | 100248 | 51.531 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 54221 | 54.774 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 57850 | 53.316 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 26808 | 52.828 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.445 | 69 | 37346 | 56.020 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 44949 | 54.576 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 68375 | 294.122 | ug/l | | 100 |
| 59) 2-Hexanone | 10.768 | 43 | 64500 | 295.048 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.920 | 129 | 42531 | 51.869 | ug/l | | 96 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 25662 | 53.744 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 40834 | 51.414 | ug/l | | 96 |
| 65) Chlorobenzene | 11.451 | 112 | 116432 | 51.151 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 45293 | 51.360 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 206644 | 51.942 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.633 | 106 | 156992 | 103.449 | ug/l | | 99 |
| 69) o-Xylene | 11.963 | 106 | 75564 | 52.115 | ug/l | | 99 |
| 70) Styrene | 11.975 | 104 | 126718 | 52.061 | ug/l | | 99 |
| 71) Bromoform | 12.139 | 173 | 28066 | 55.357 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.261 | 105 | 209755 | 50.166 | ug/l | | 99 |
| 74) N-amyl acetate | 12.078 | 43 | 33024 | 55.579 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 28705 | 53.553 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 18132m | 38.088 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 49237 | 51.155 | ug/l | | 98 |
| 78) n-propylbenzene | 12.603 | 91 | 235128 | 50.173 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 136280 | 51.012 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 177863 | 51.057 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 10590 | 54.534 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 141476 | 51.241 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 164603 | 50.596 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 174321 | 51.423 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 221870 | 50.603 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 198854 | 50.891 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 95245 | 50.631 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 94865 | 50.694 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 166380 | 51.010 | ug/l | | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 37154 | 50.005 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 85113 | 52.769 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 5917 | 56.916 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 54457 | 53.117 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 37636 | 50.369 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 92244 | 56.177 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 46678 | 54.682 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020709.D
Acq On : 26 Dec 2024 10:39
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 26 16:06:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020709.D
Acq On : 26 Dec 2024 10:39
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Dec 26 16:06:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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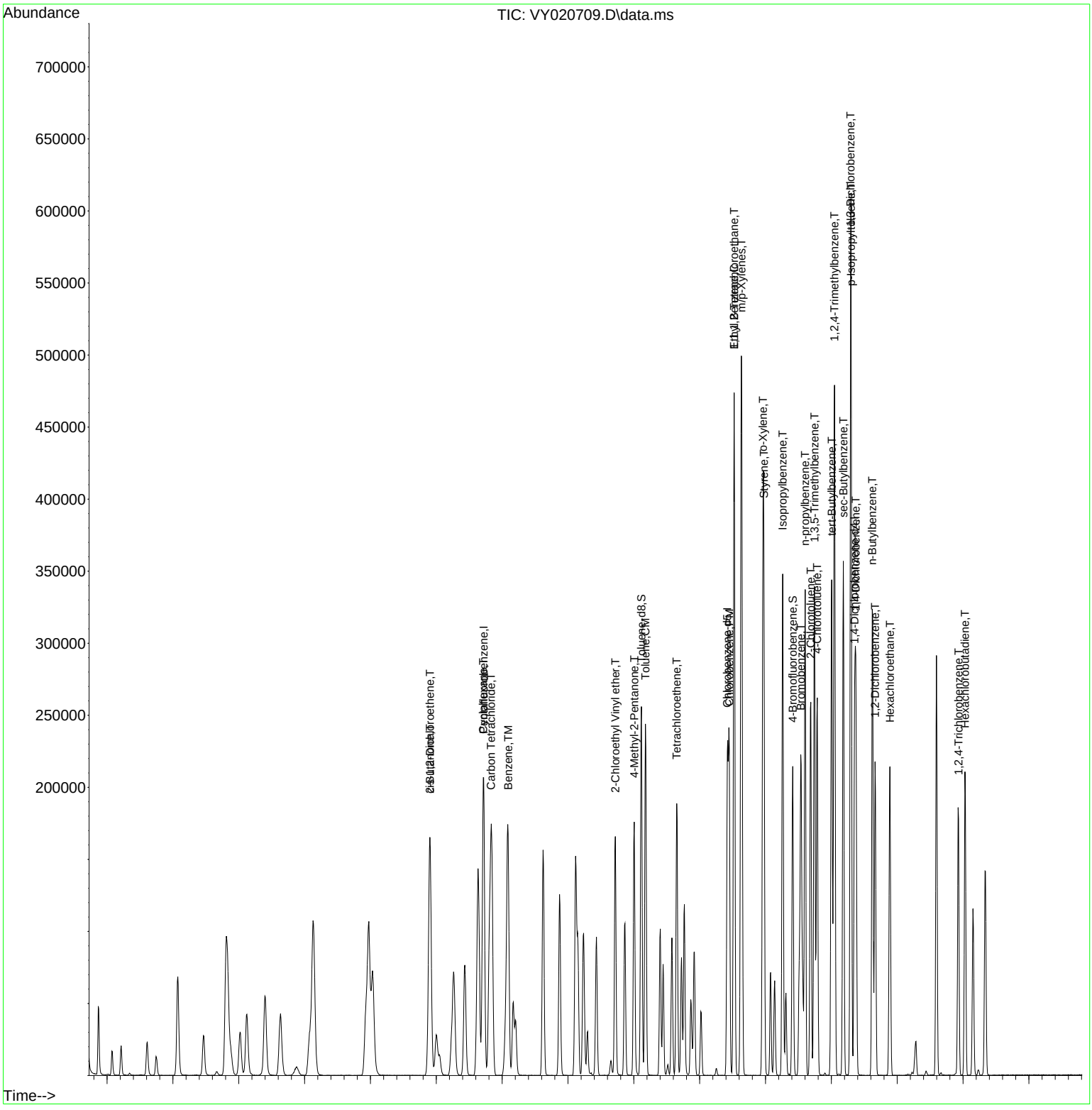
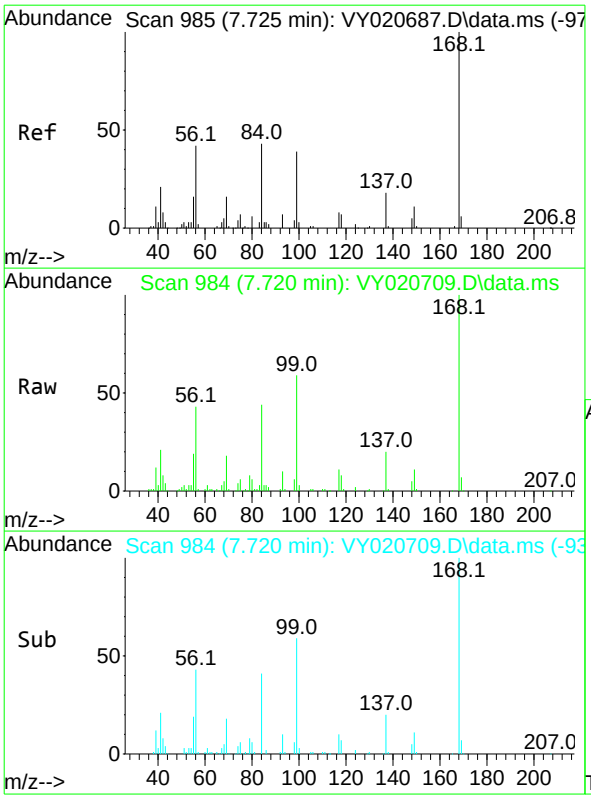
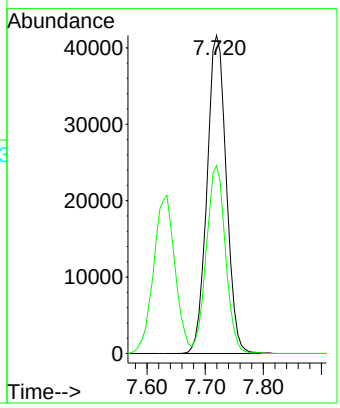





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 98
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:168 Resp: 95919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.1 | 43.8 | 65.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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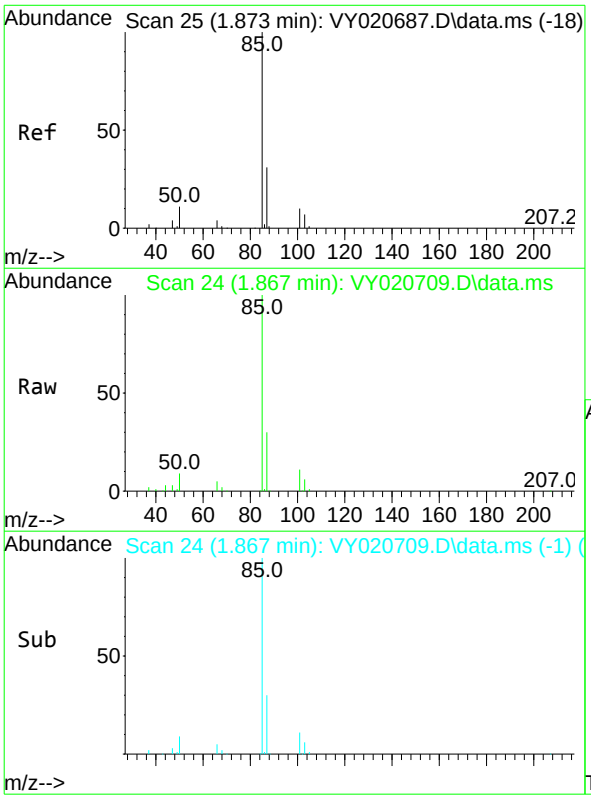
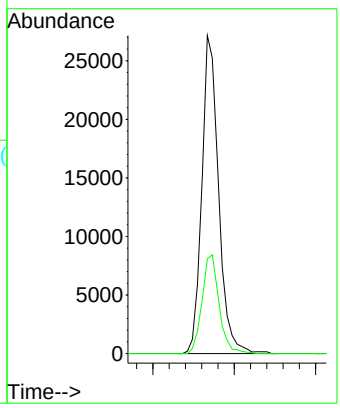
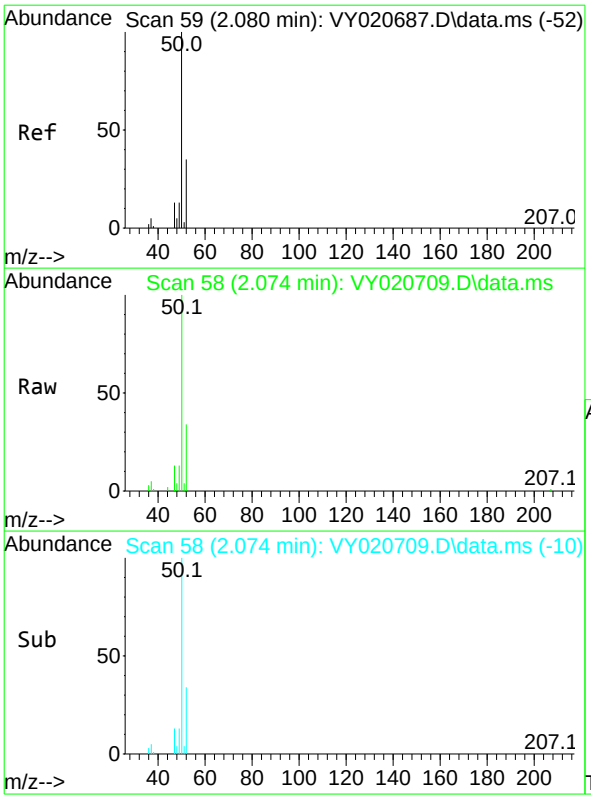



#2
Dichlorodifluoromethane
Concen: 51.393 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 85 Resp: 38801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.8 | 15.4 | 46.4 |

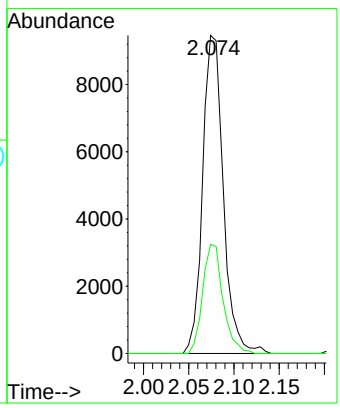





#3
Chloromethane
Concen: 53.407 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 50 Resp: 15038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.3 | 28.2 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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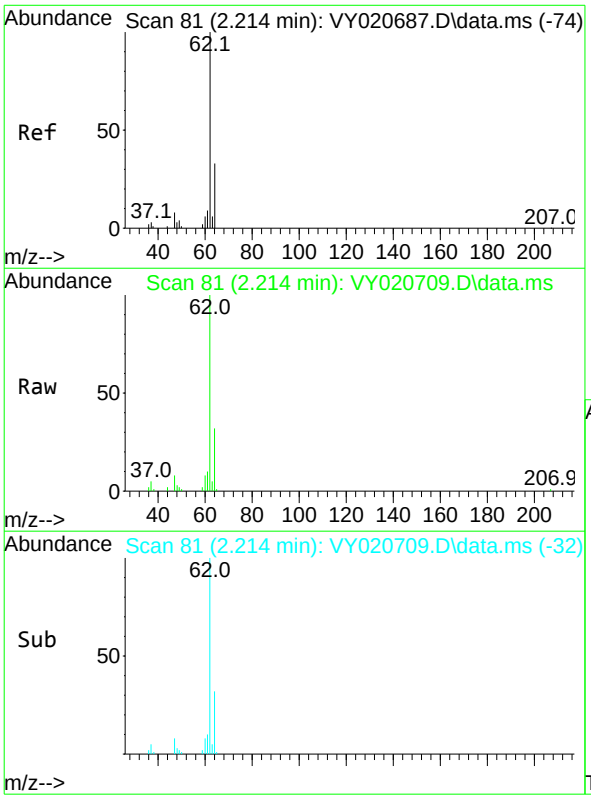
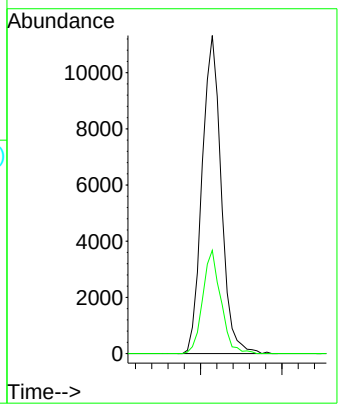
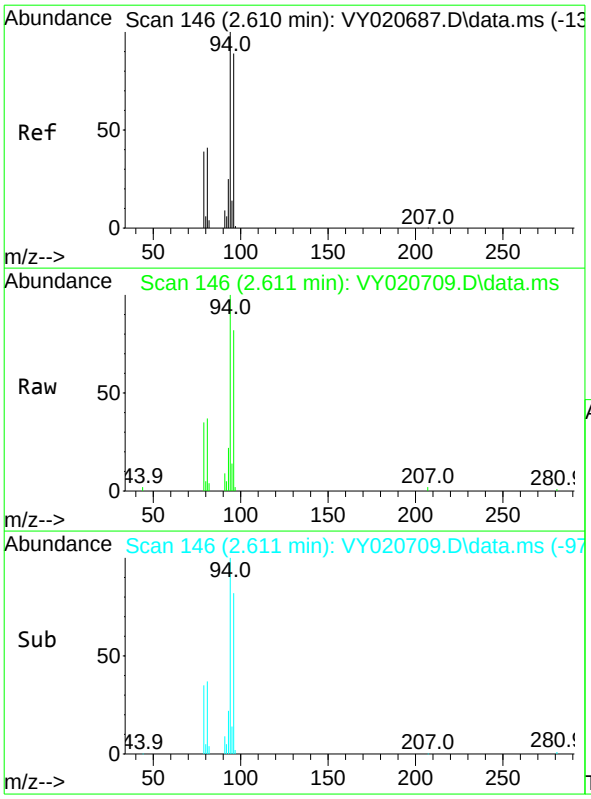



#4
Vinyl Chloride
Concen: 52.843 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 62 Resp: 18435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.5 | 26.6 | 40.0 |

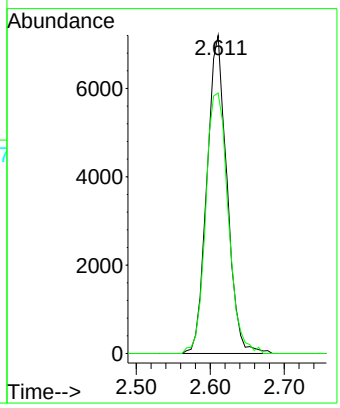





#5
Bromomethane
Concen: 51.355 ug/l
RT: 2.611 min Scan# 14
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 94 Resp: 13527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 81.9 | 71.0 | 106.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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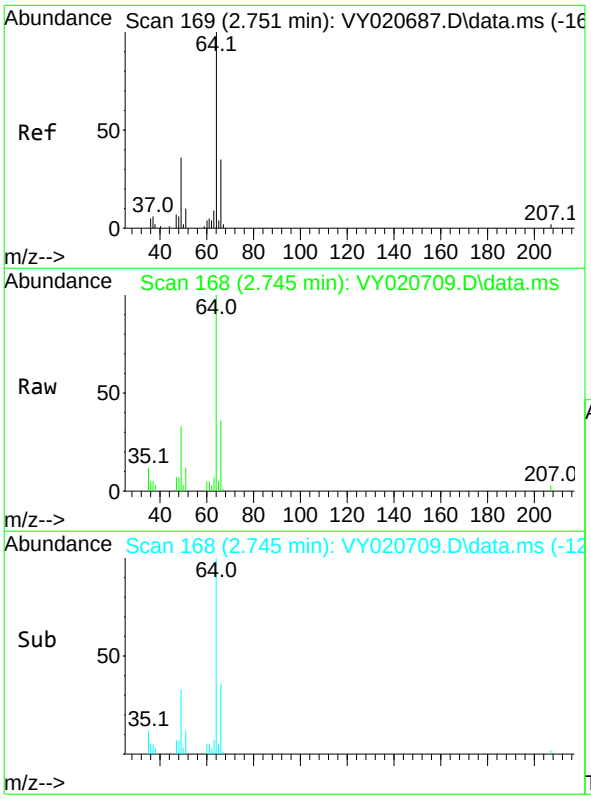
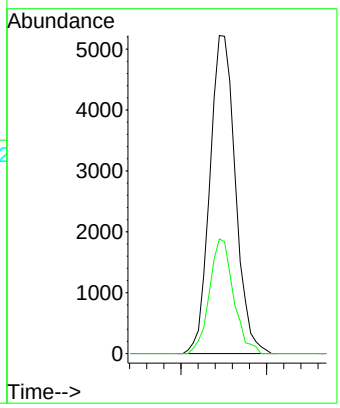
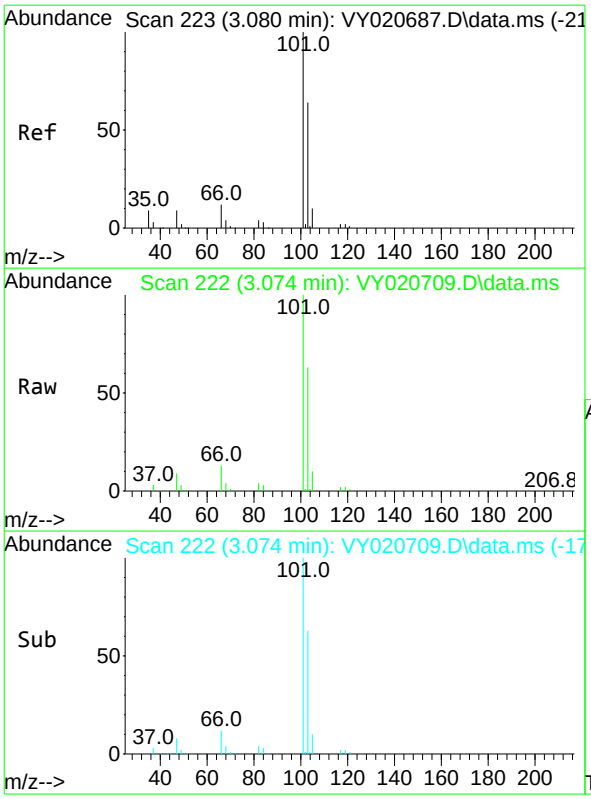



#6
Chloroethane
Concen: 51.686 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 64 Resp: 10817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.0 | 27.8 | 41.8 |

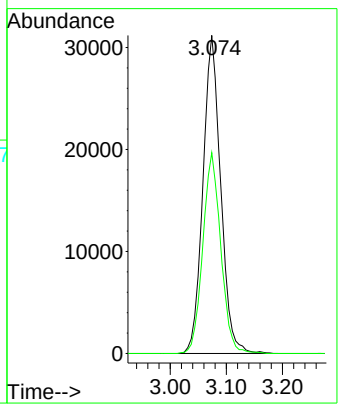





#7
Trichlorofluoromethane
Concen: 51.119 ug/l
RT: 3.074 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:101 Resp: 68580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.1 | 51.4 | 77.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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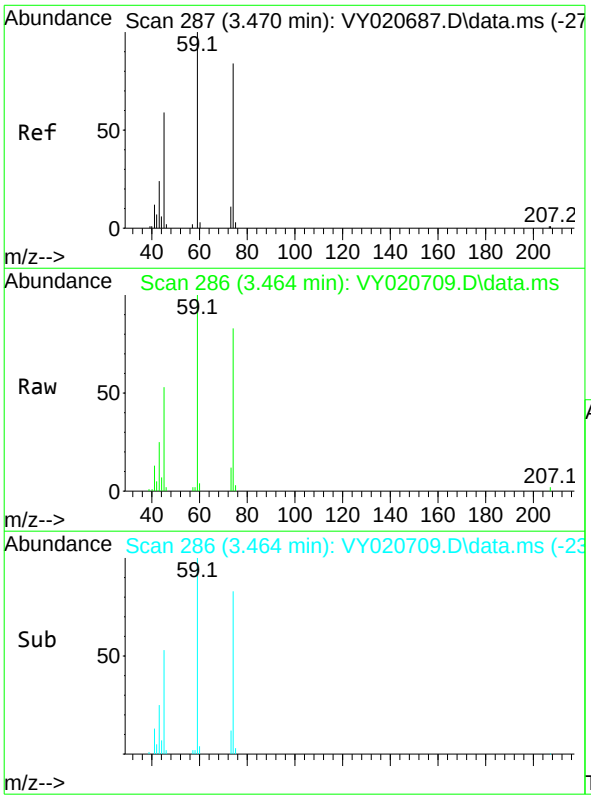
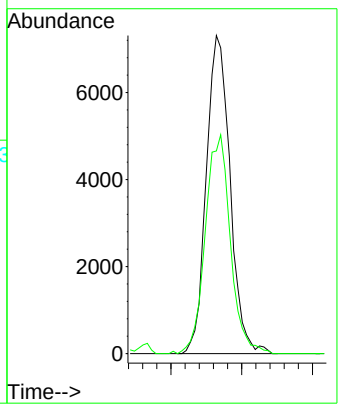
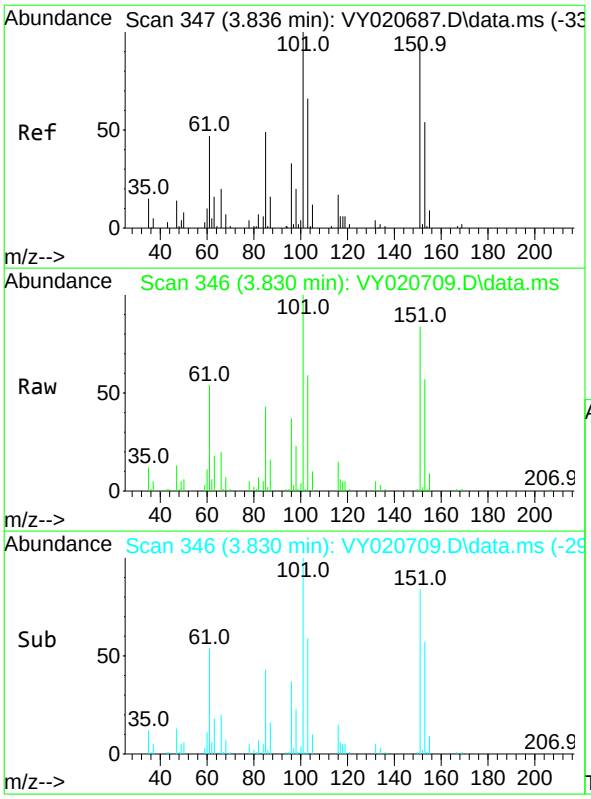



#8
Diethyl Ether
Concen: 53.449 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 74 Resp: 17063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 72.5 | 35.8 | 107.4 |

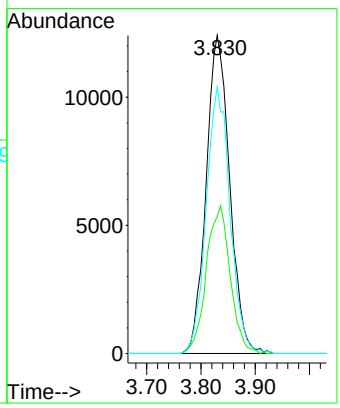





#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.872 ug/l
RT: 3.830 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:101 Resp: 37468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.0 | 38.2 | 57.2 |
| 151 | 85.1 | 68.4 | 102.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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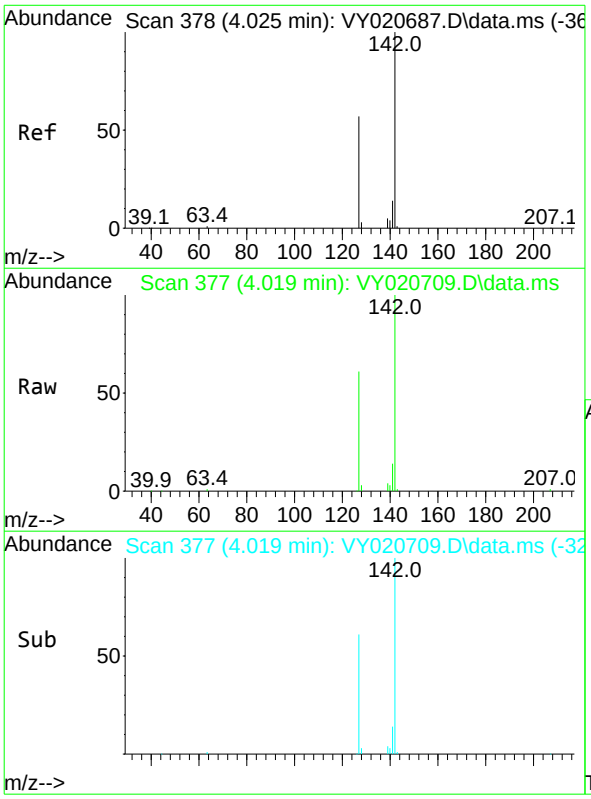
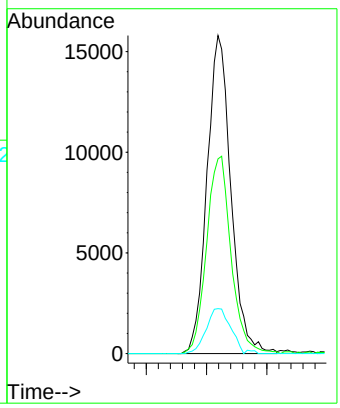
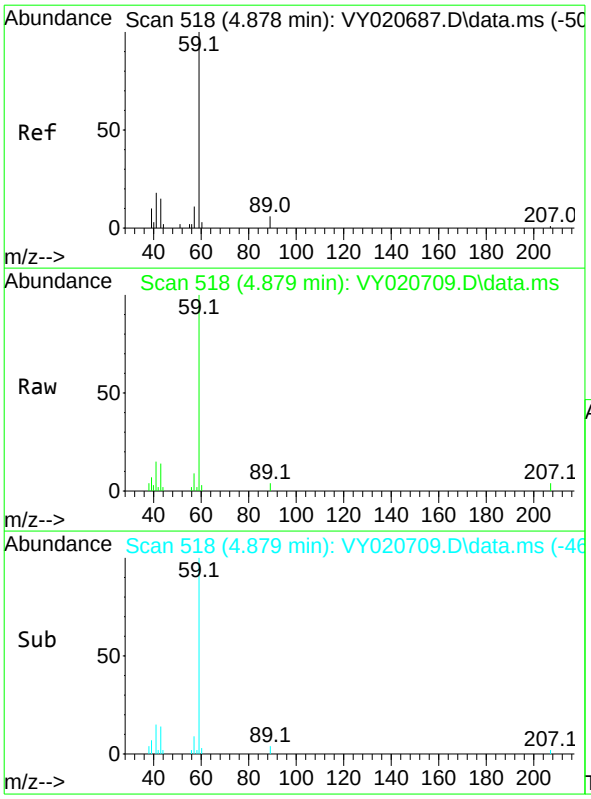



#10
Methyl Iodide
Concen: 53.984 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:142 Resp: 43478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 63.6 | 48.8 | 73.2 |
| 141 | 14.6 | 11.9 | 17.9 |

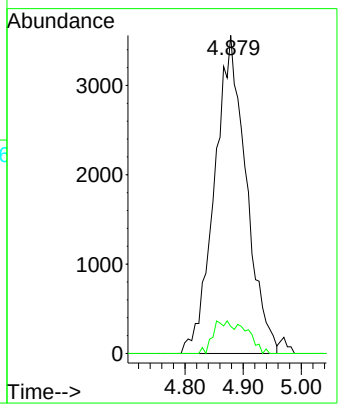





#11
Tert butyl alcohol
Concen: 276.533 ug/l
RT: 4.879 min Scan# 51
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 59 Resp: 13467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 6.4 | 2.8 | 4.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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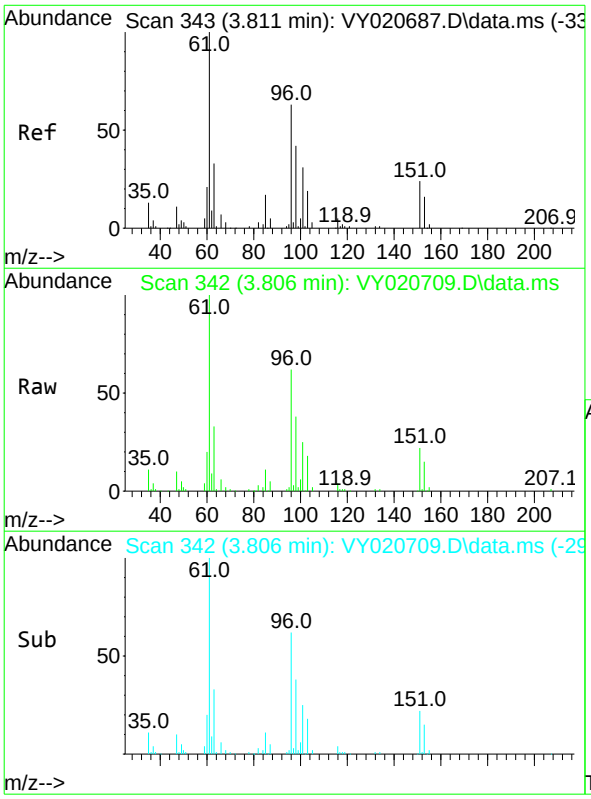
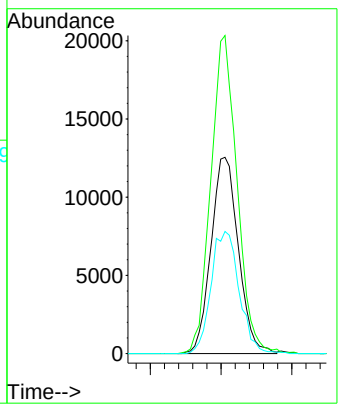
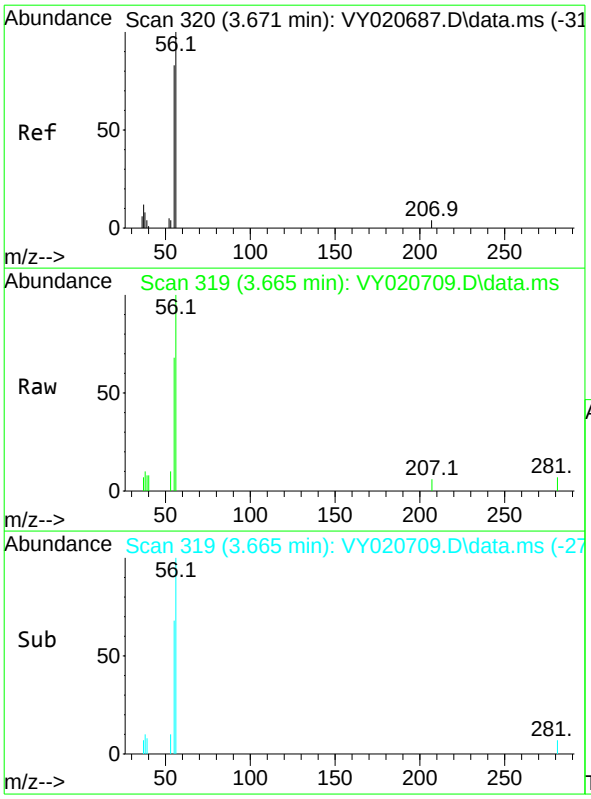



#12
1,1-Dichloroethene
Concen: 51.495 ug/l
RT: 3.806 min Scan# 342
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 96 Resp: 33758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.0 | 127.1 | 190.7 |
| 98 | 62.2 | 53.4 | 80.0 |

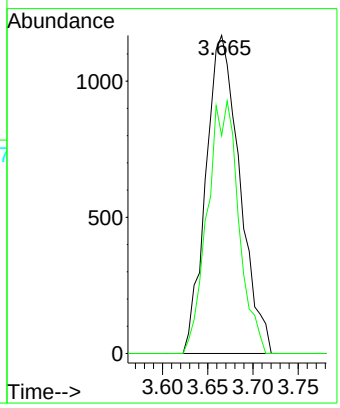





#13
Acrolein
Concen: 185.584 ug/l
RT: 3.665 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 56 Resp: 3048

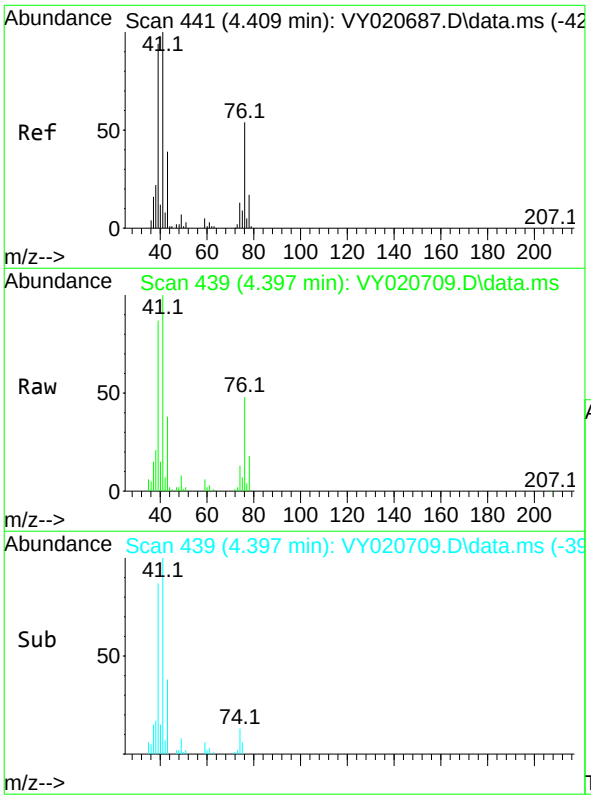
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.2 | 57.0 | 85.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

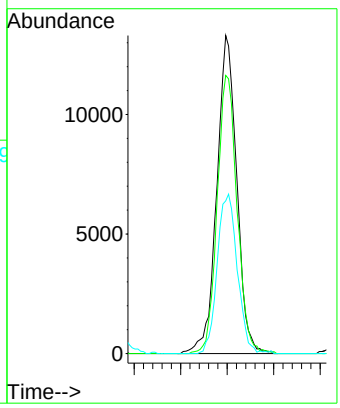
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

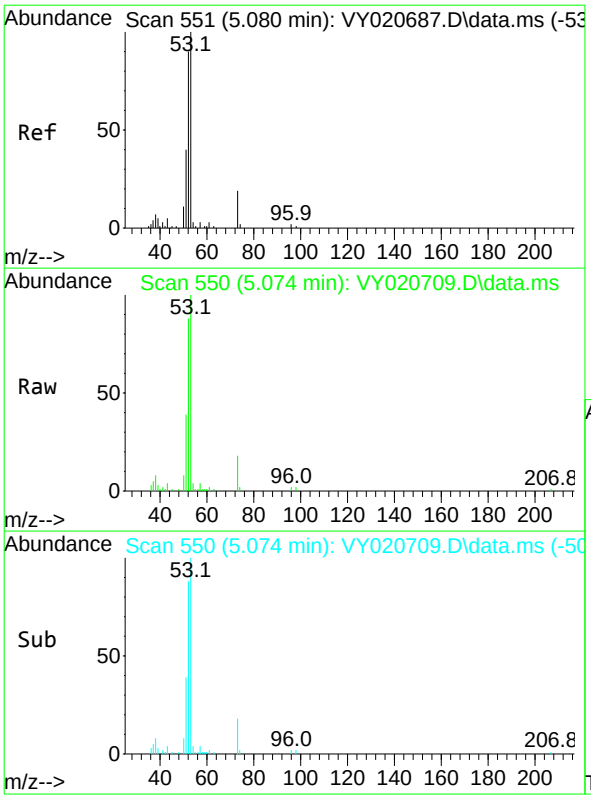



#14
Allyl chloride
Concen: 51.717 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.012 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 41 Resp: 39674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 87.2 | 73.5 | 110.3 |
| 76 | 50.6 | 41.8 | 62.8 |

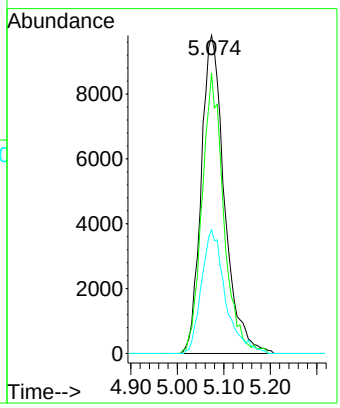





#15
Acrylonitrile
Concen: 276.260 ug/l
RT: 5.074 min Scan# 55
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 53 Resp: 34070

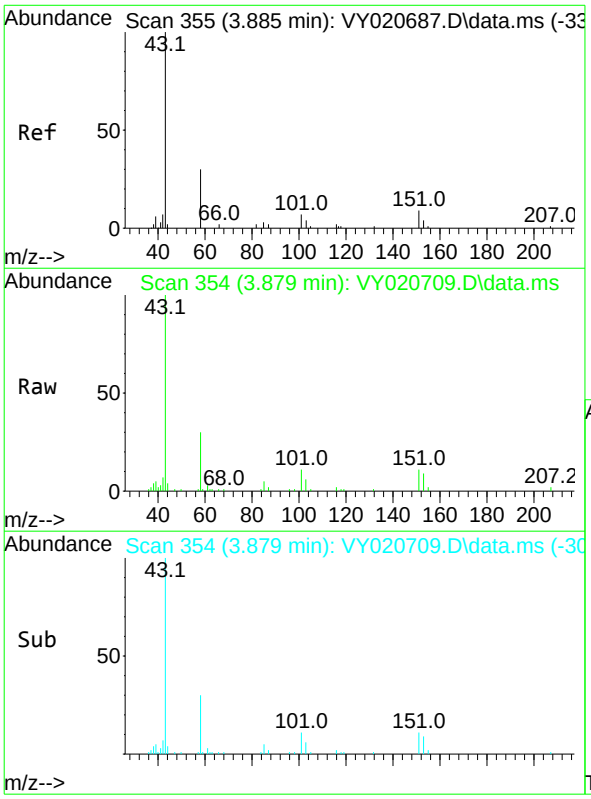
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.1 | 67.1 | 100.7 |
| 51 | 40.1 | 31.4 | 47.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

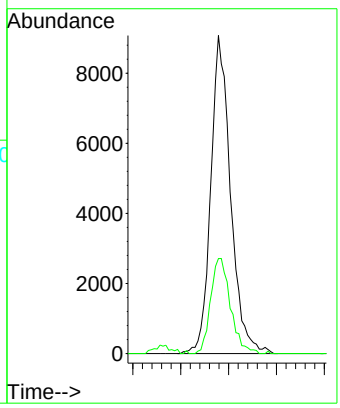
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

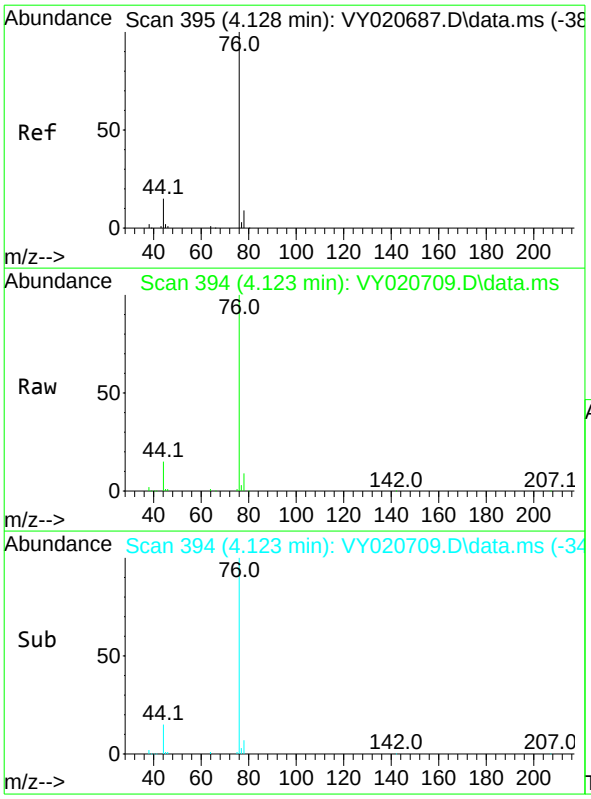



#16
Acetone
Concen: 261.525 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 26066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.9 | 25.0 | 37.6 |

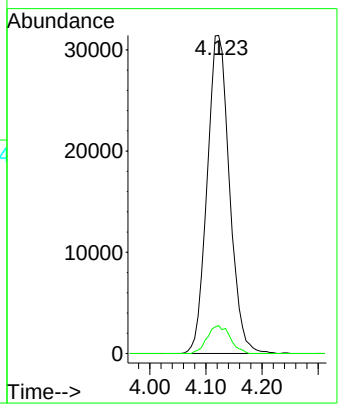





#17
Carbon Disulfide
Concen: 54.046 ug/l
RT: 4.123 min Scan# 39
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 76 Resp: 86912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 6.9 | 10.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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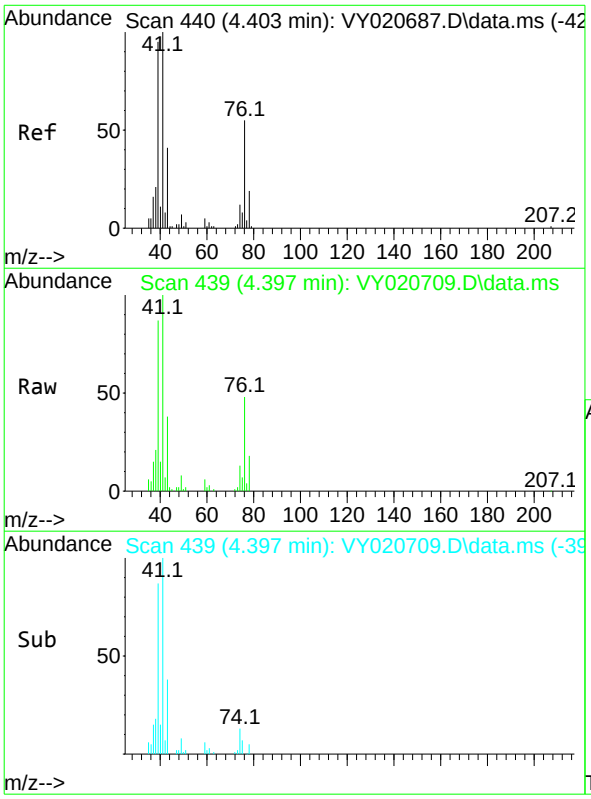
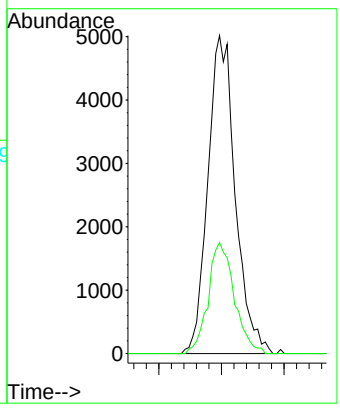
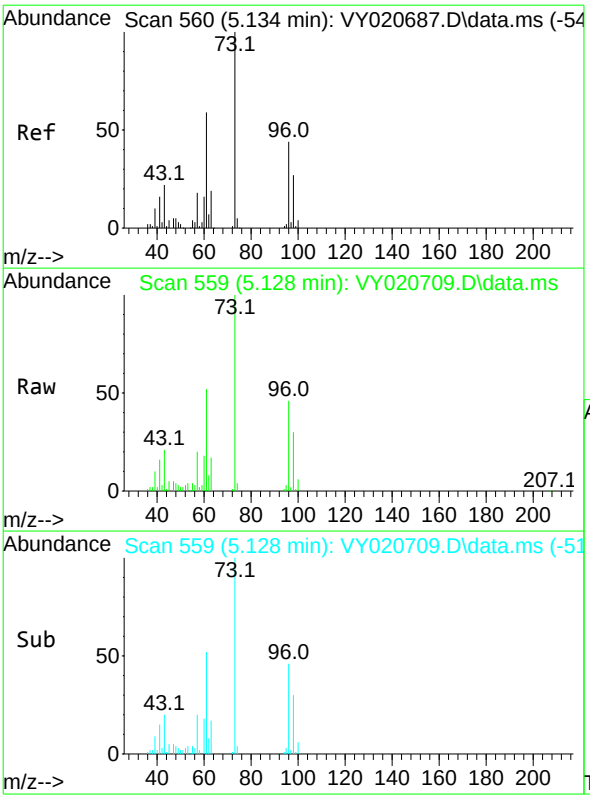



#18
Methyl Acetate
Concen: 56.466 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 15232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 33.3 | 25.3 | 37.9 |

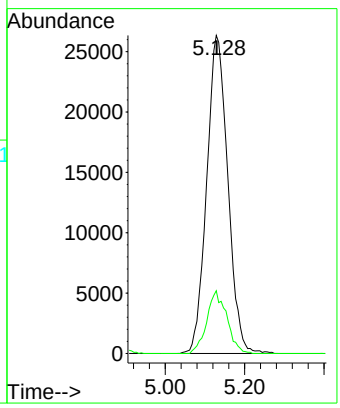





#19
Methyl tert-butyl Ether
Concen: 53.300 ug/l
RT: 5.128 min Scan# 55
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 73 Resp: 97389

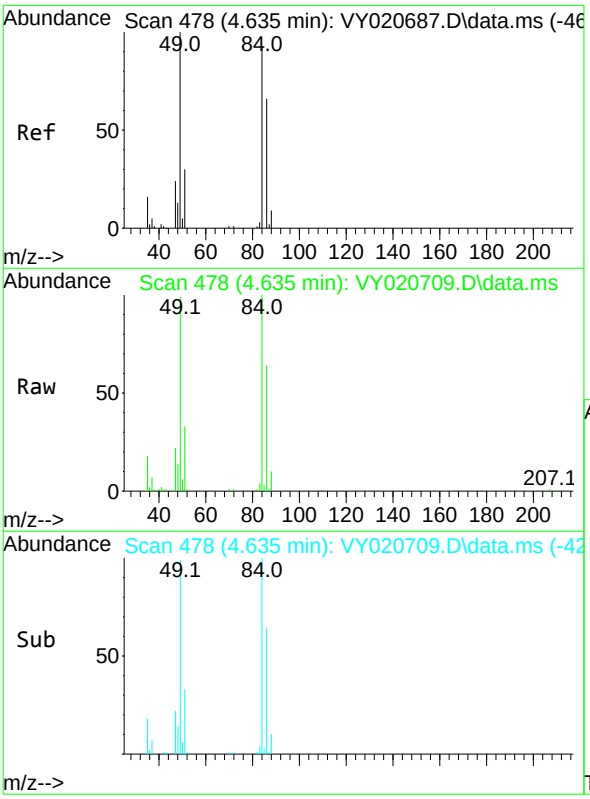
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.7 | 14.4 | 21.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

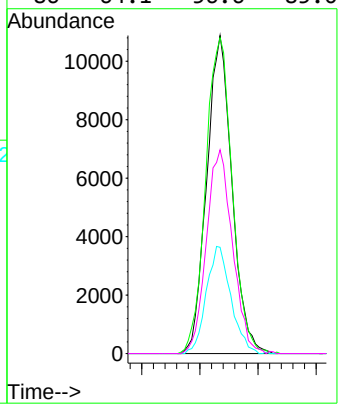
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

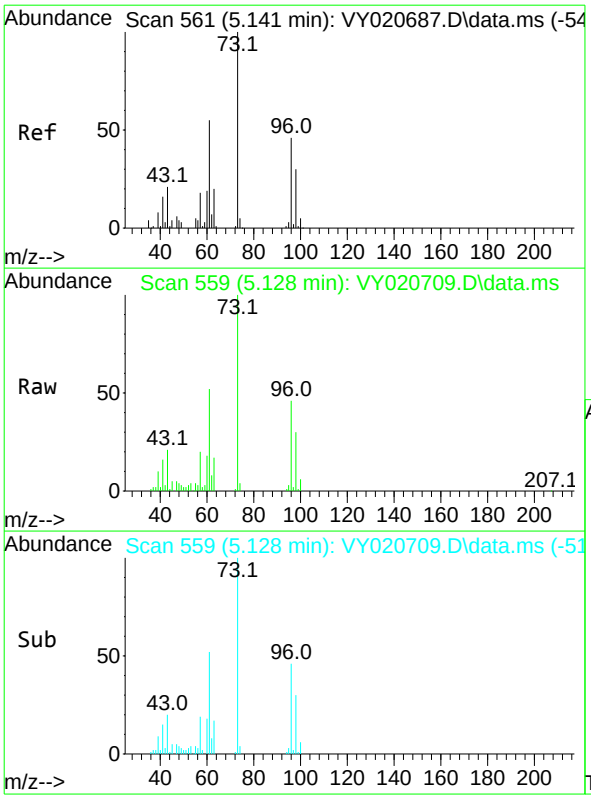



#20
Methylene Chloride
Concen: 50.741 ug/l
RT: 4.635 min Scan# 478
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 84 Resp: 32892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 99.3 | 86.4 | 129.6 |
| 51 | 33.4 | 25.5 | 38.3 |
| 86 | 64.1 | 56.6 | 85.0 |

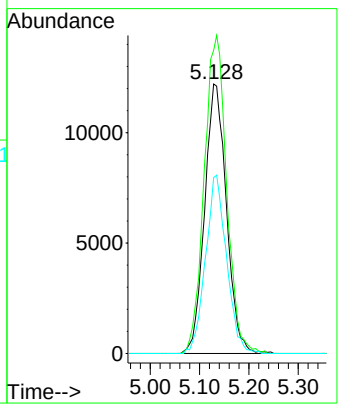





#21
trans-1,2-Dichloroethene
Concen: 53.081 ug/l
RT: 5.128 min Scan# 55
Delta R.T. -0.013 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 96 Resp: 37498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 112.5 | 96.1 | 144.1 |
| 98 | 65.3 | 52.7 | 79.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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Reviewed By :Mahesh Dadoda 12/27/2024
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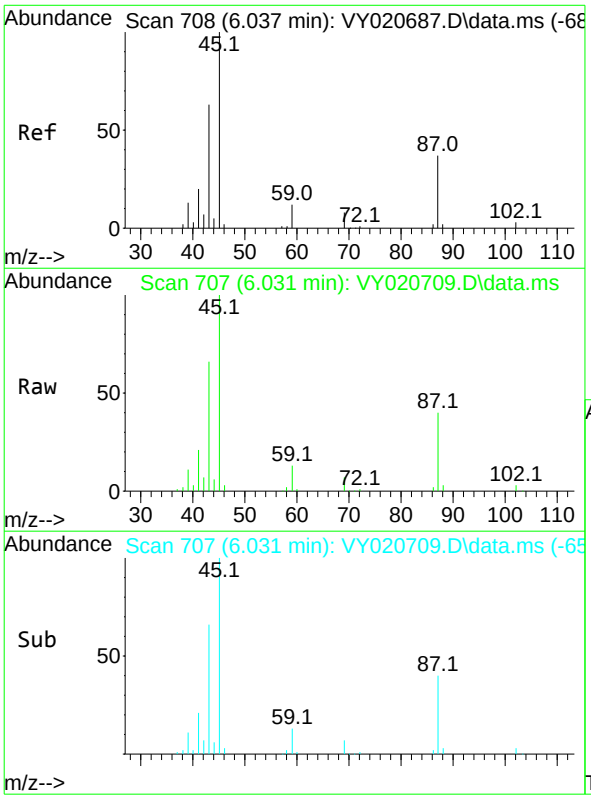
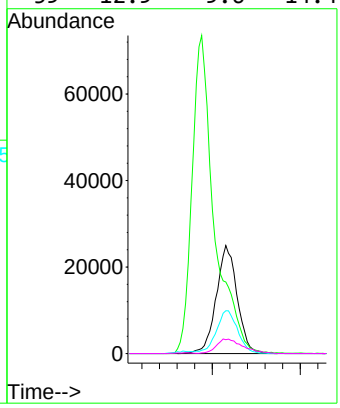
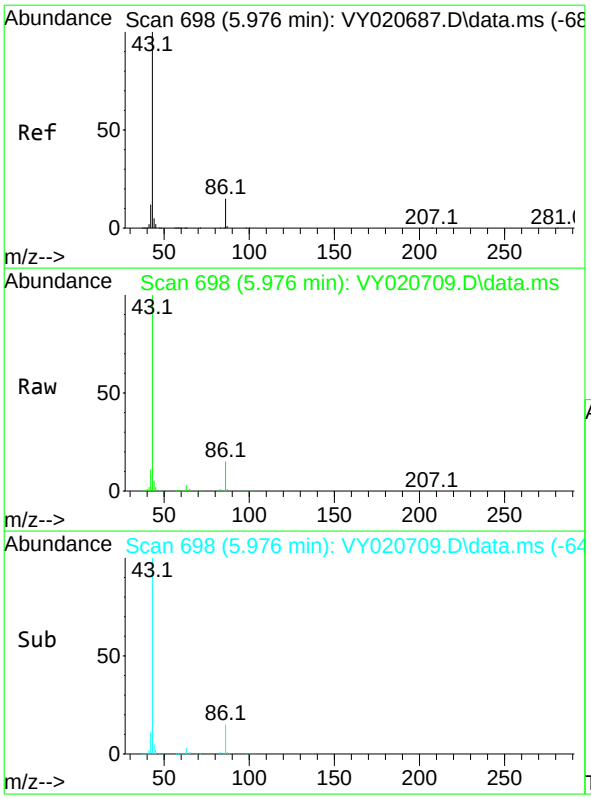



#22
Diisopropyl ether
Concen: 52.731 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 45 Resp: 82233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.4 | 51.3 | 76.9 |
| 87 | 39.6 | 30.6 | 46.0 |
| 59 | 12.9 | 9.6 | 14.4 |

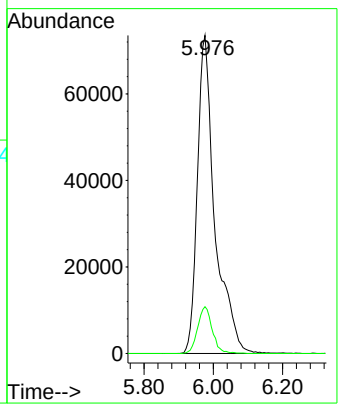





#23
Vinyl Acetate
Concen: 276.499 ug/l
RT: 5.976 min Scan# 69
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 257552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.7 | 12.0 | 18.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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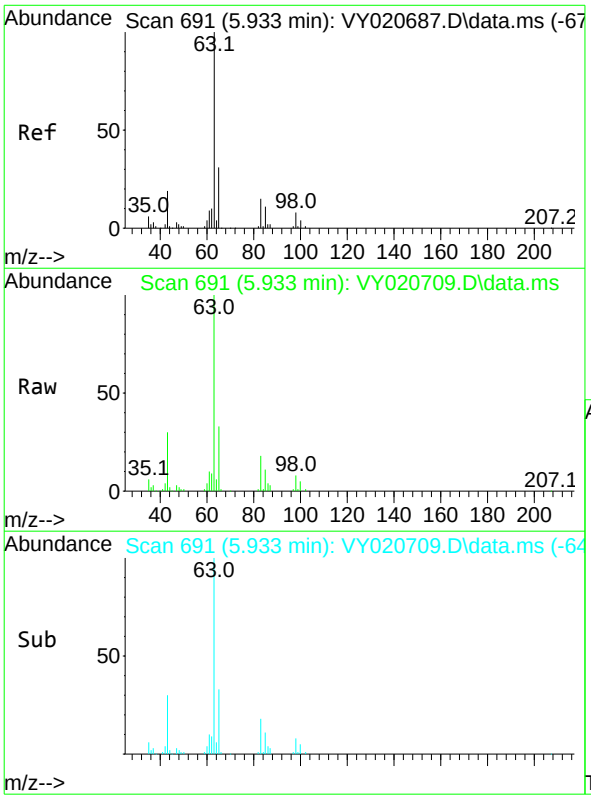
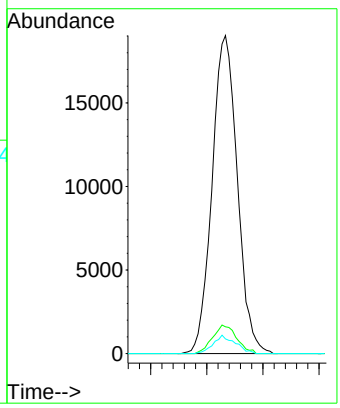
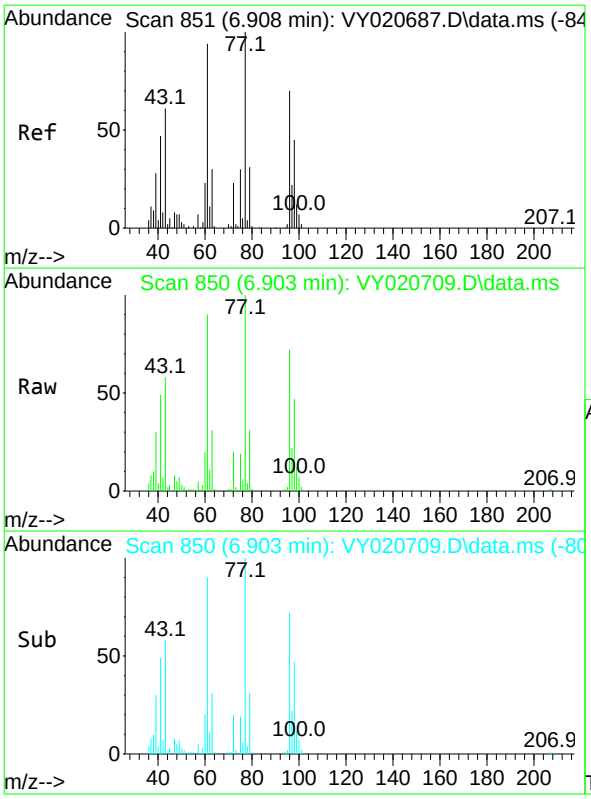



#24
1,1-Dichloroethane
Concen: 50.822 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 63 Resp: 59422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.4 | 4.0 | 12.0 |
| 100 | 4.6 | 2.1 | 6.2 |

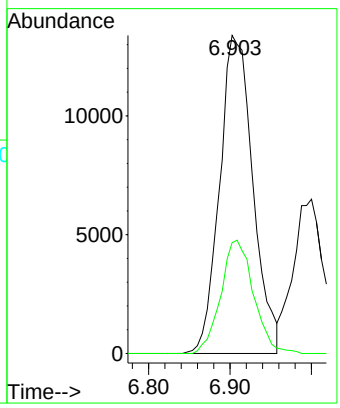





#25
2-Butanone
Concen: 283.310 ug/l
RT: 6.903 min Scan# 85
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 38144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 34.9 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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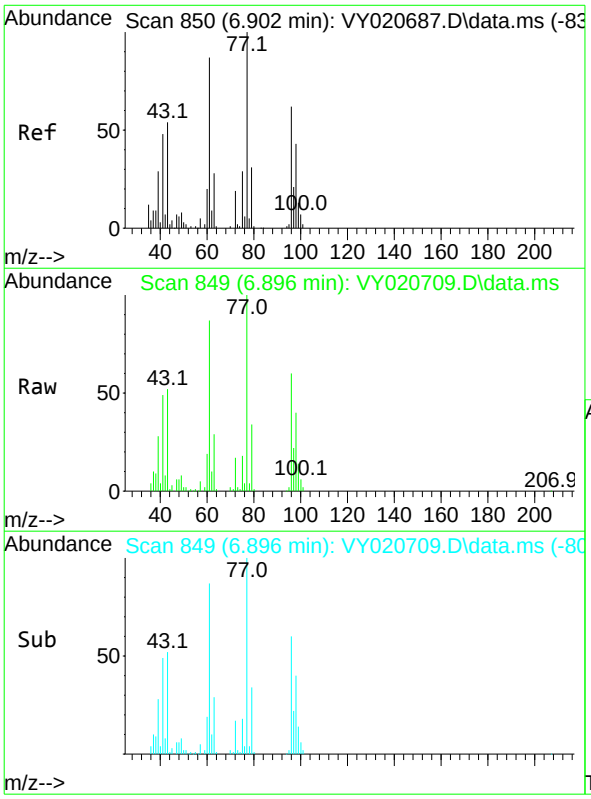
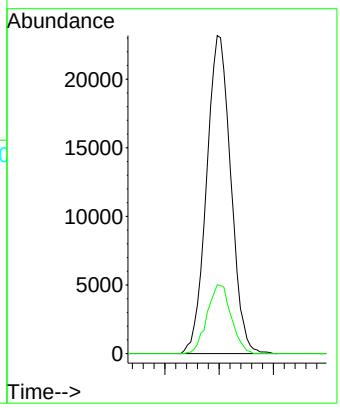
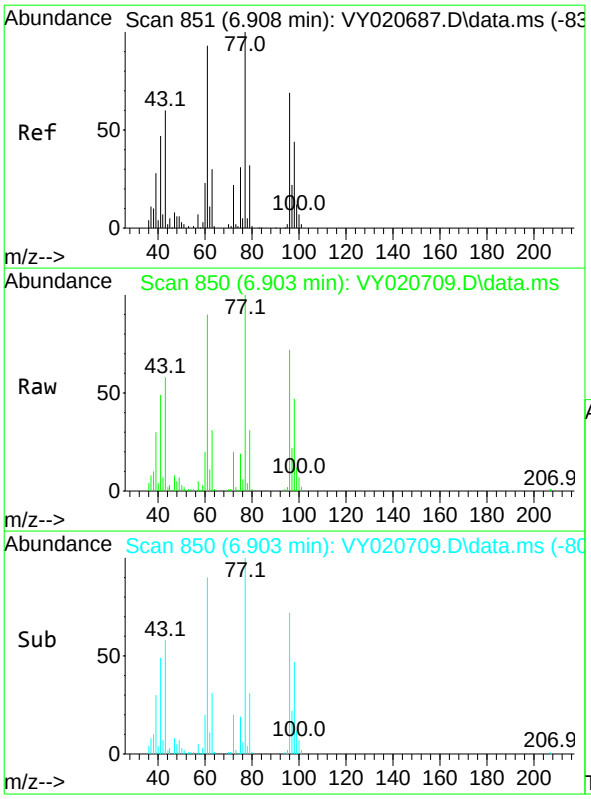



#26
2,2-Dichloropropane
Concen: 50.280 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 77 Resp: 71954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.4 | 10.8 | 32.4 |

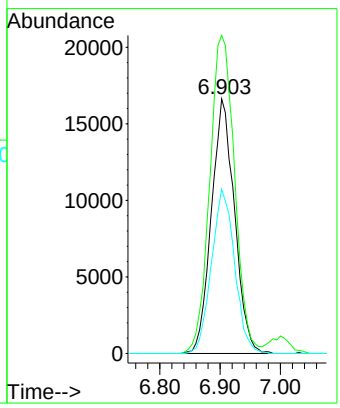





#27
cis-1,2-Dichloroethene
Concen: 52.410 ug/l
RT: 6.903 min Scan# 85
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 96 Resp: 44338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.5 | 0.0 | 277.2 |
| 98 | 64.5 | 0.0 | 131.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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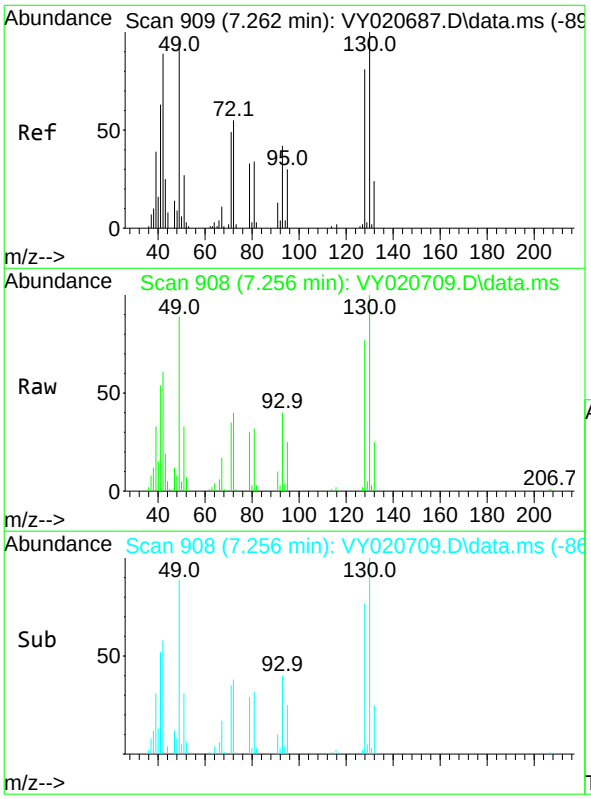
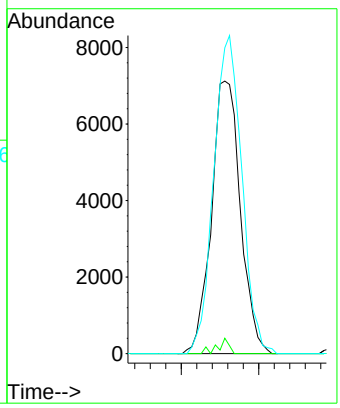
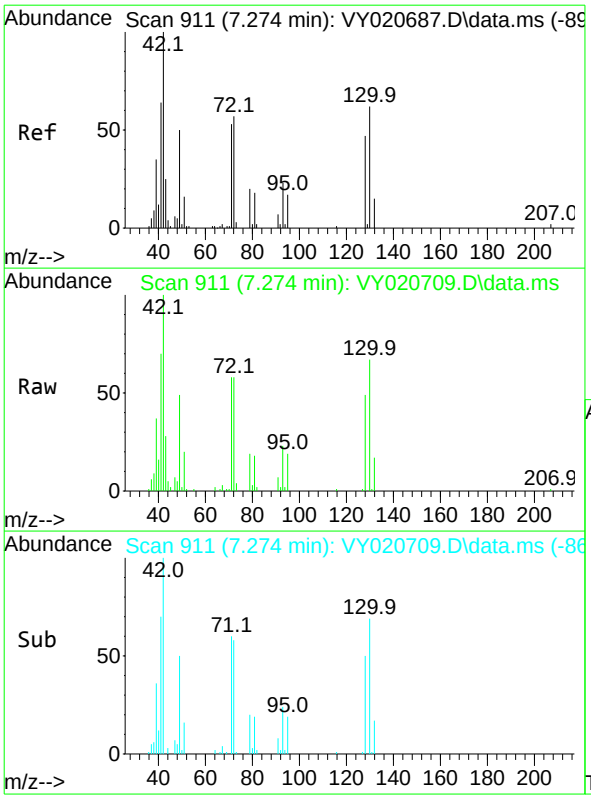



#28
Bromochloromethane
Concen: 59.719 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 49 Resp: 18465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 5.4 |
| 130 | 113.6 | 87.2 | 130.8 |

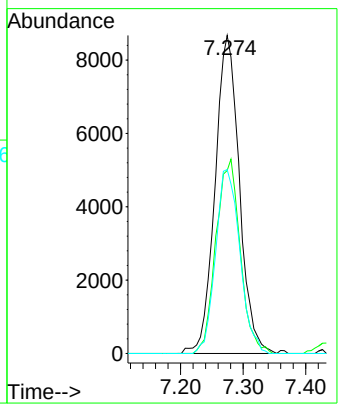





#29
Tetrahydrofuran
Concen: 283.255 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 42 Resp: 23409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 61.0 | 47.4 | 71.0 |
| 71 | 57.8 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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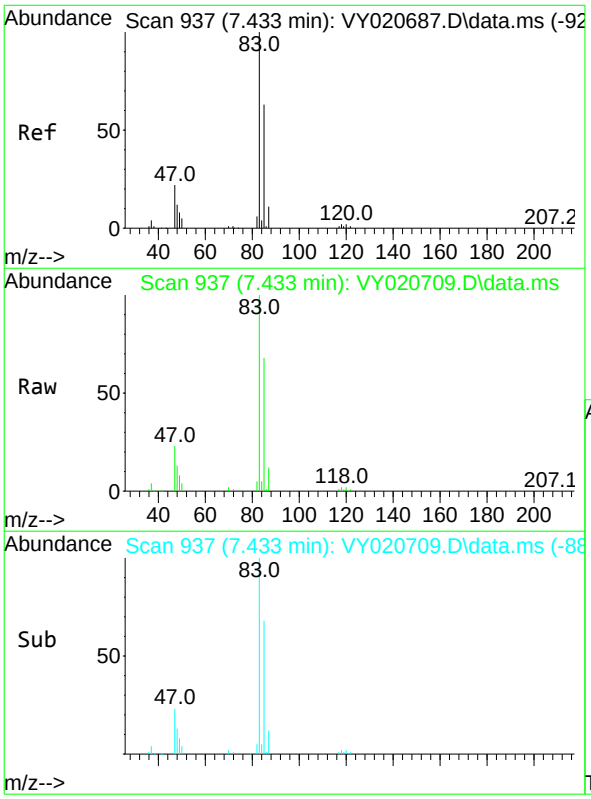
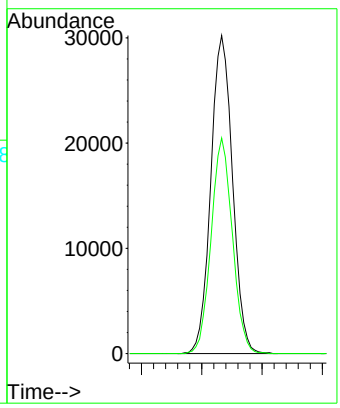
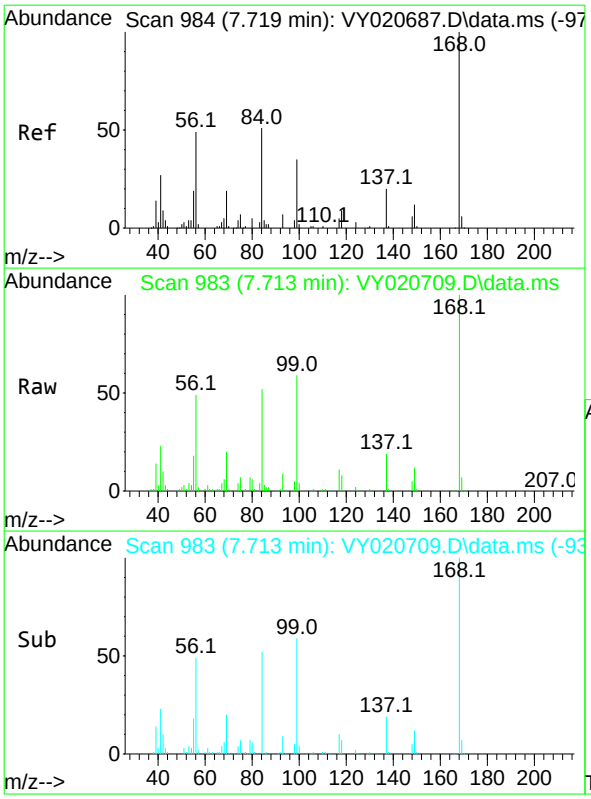



#30
Chloroform
Concen: 50.224 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 83 Resp: 75540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.8 | 50.2 | 75.2 |

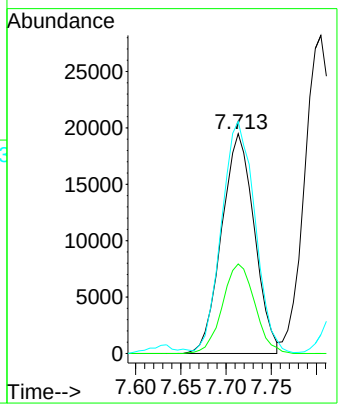





#31
Cyclohexane
Concen: 48.512 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 56 Resp: 48960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 40.7 | 31.3 | 46.9 |
| 84 | 104.0 | 83.9 | 125.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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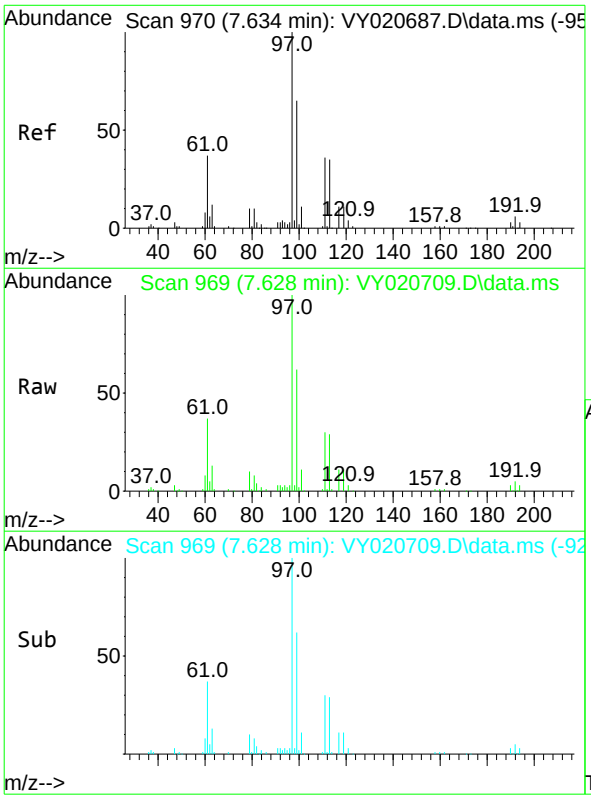
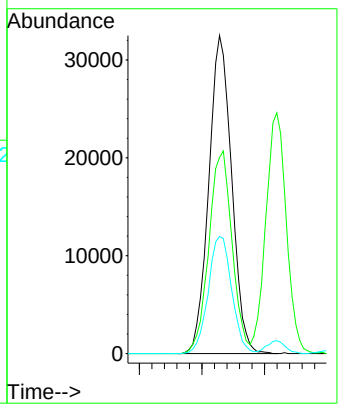
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

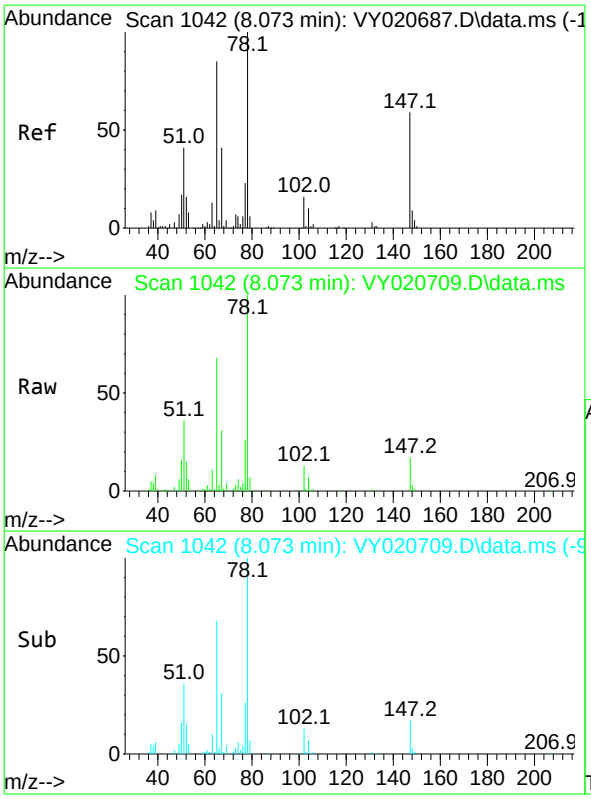



#32
1,1,1-Trichloroethane
Concen: 51.087 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 97 Resp: 82365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.0 | 76.6 |
| 61 | 37.8 | 30.0 | 45.0 |

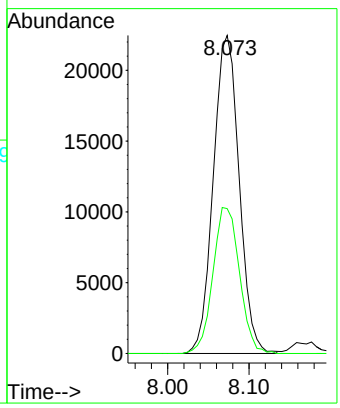





#33
1,2-Dichloroethane-d4
Concen: 63.047 ug/l
RT: 8.073 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 65 Resp: 49534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 47.2 | 0.0 | 98.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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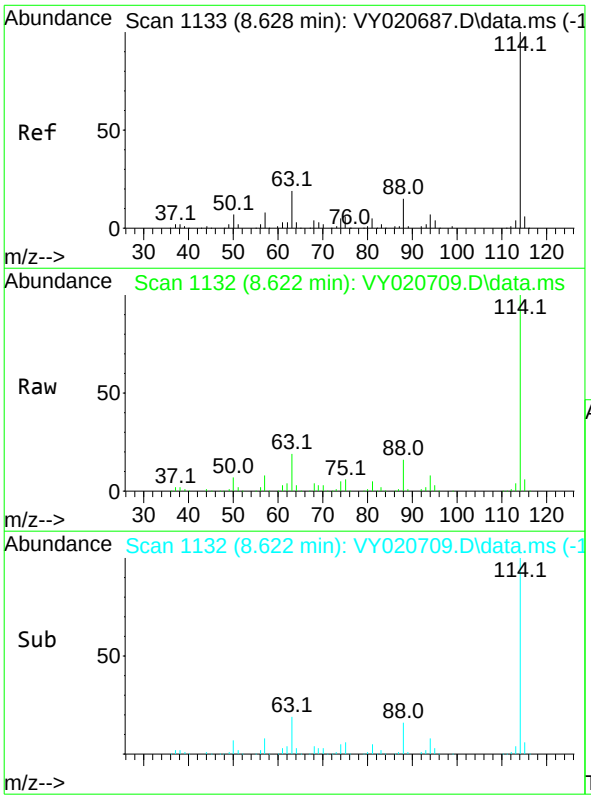
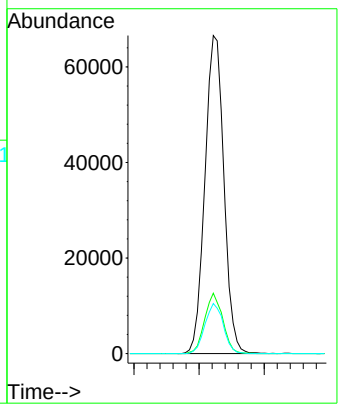
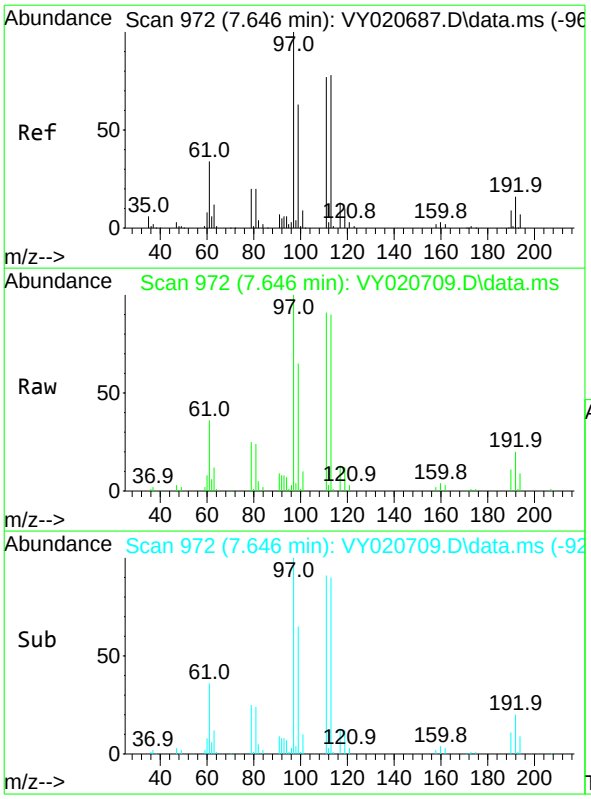



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:114 Resp: 134605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.0 | 0.0 | 38.4 |
| 88 | 15.7 | 0.0 | 30.4 |

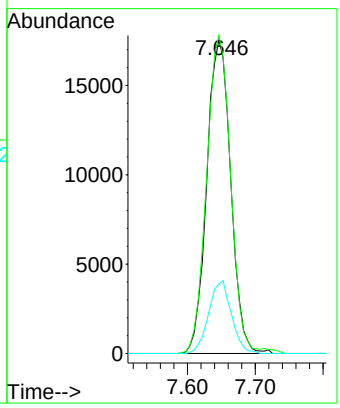





#35
Dibromofluoromethane
Concen: 57.936 ug/l
RT: 7.646 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:113 Resp: 42955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 79.8 | 119.8 |
| 192 | 22.0 | 17.0 | 25.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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Reviewed By :Mahesh Dadoda 12/27/2024
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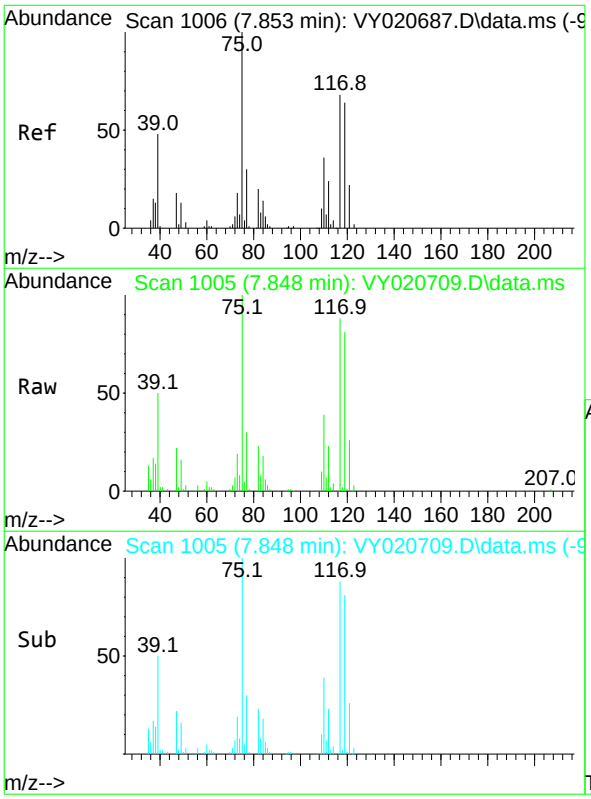
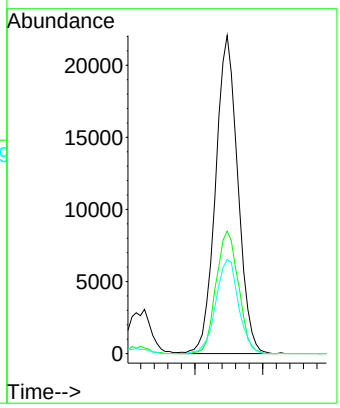
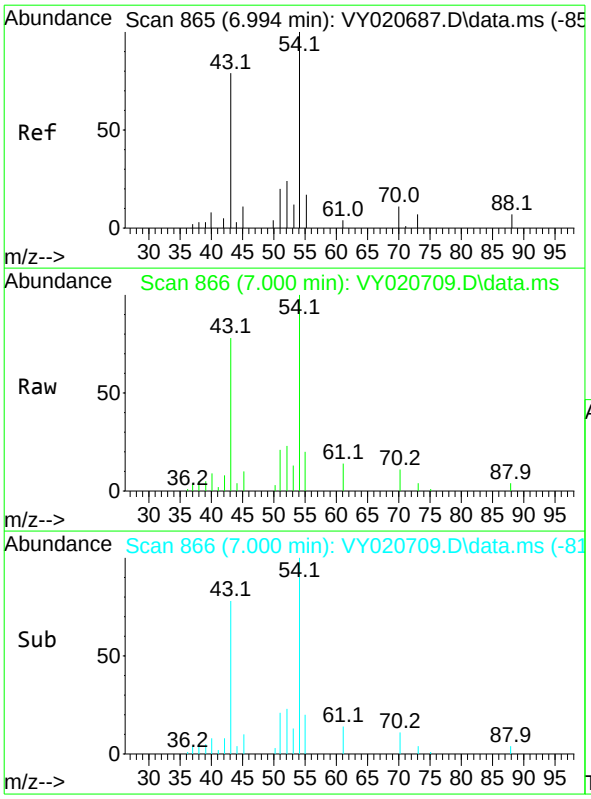



#36
1,1-Dichloropropene
Concen: 51.408 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 75 Resp: 50348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.6 | 19.6 | 58.7 |
| 77 | 30.3 | 25.1 | 37.7 |

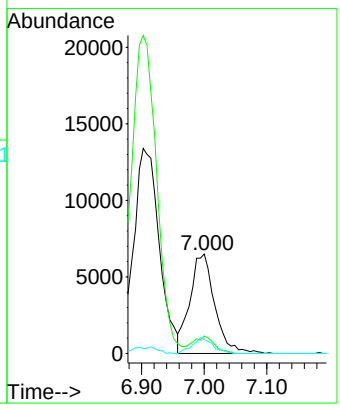





#37
Ethyl Acetate
Concen: 55.607 ug/l
RT: 7.000 min Scan# 86
Delta R.T. 0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 17946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.9 | 11.7 | 17.5 |
| 70 | 13.0 | 11.0 | 16.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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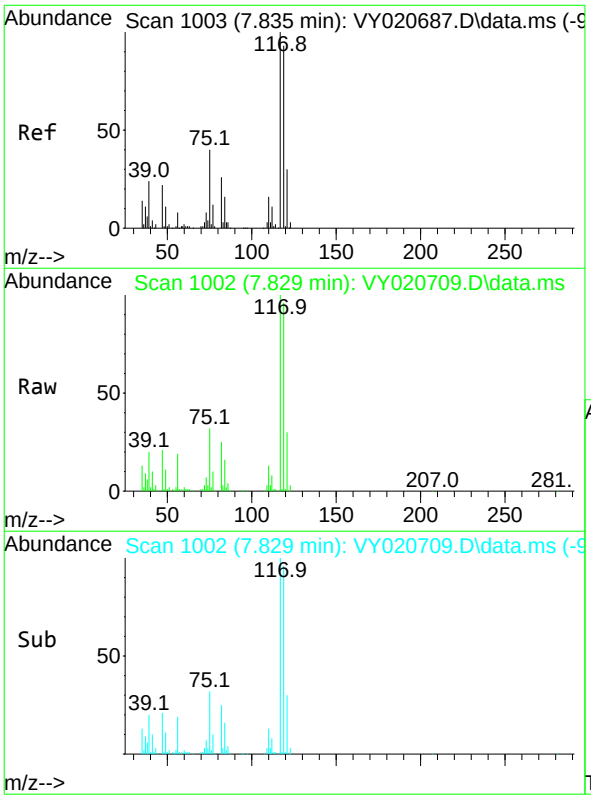
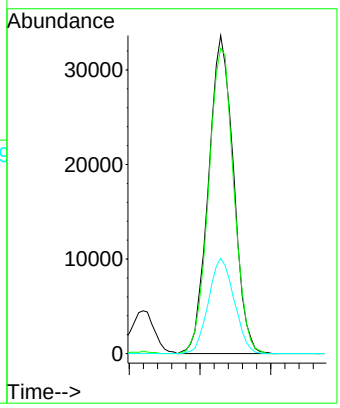
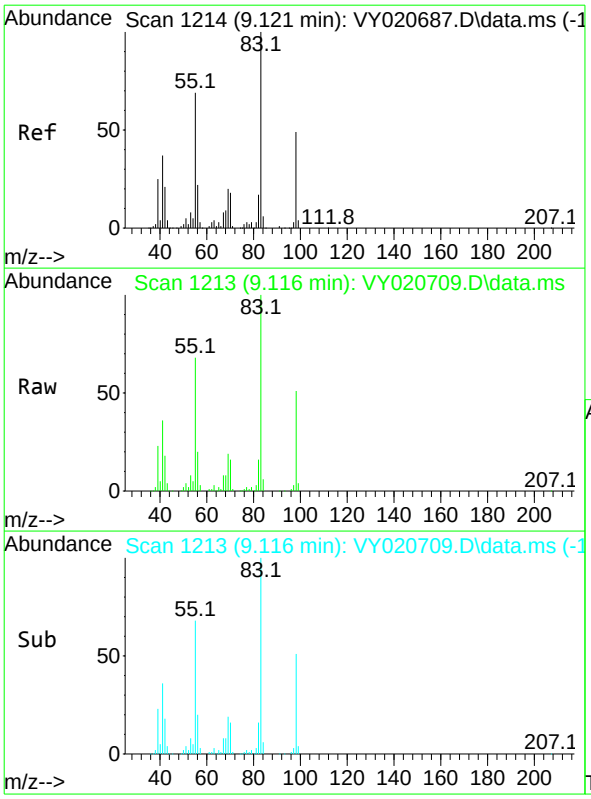



#38
Carbon Tetrachloride
Concen: 51.220 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:117 Resp: 82604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.0 | 74.4 | 111.6 |
| 121 | 29.9 | 24.2 | 36.2 |

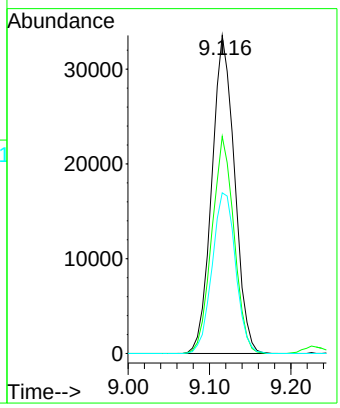





#39
Methylcyclohexane
Concen: 51.957 ug/l
RT: 9.116 min Scan# 12
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 83 Resp: 65222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 68.2 | 55.0 | 82.4 |
| 98 | 50.5 | 39.0 | 58.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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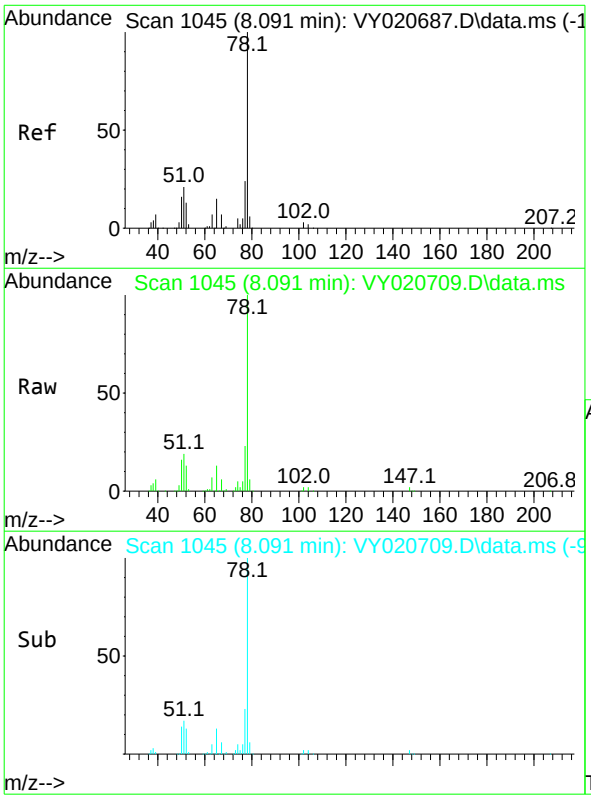
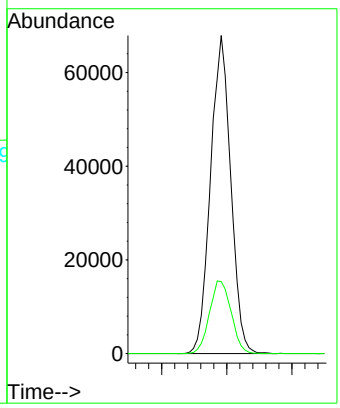
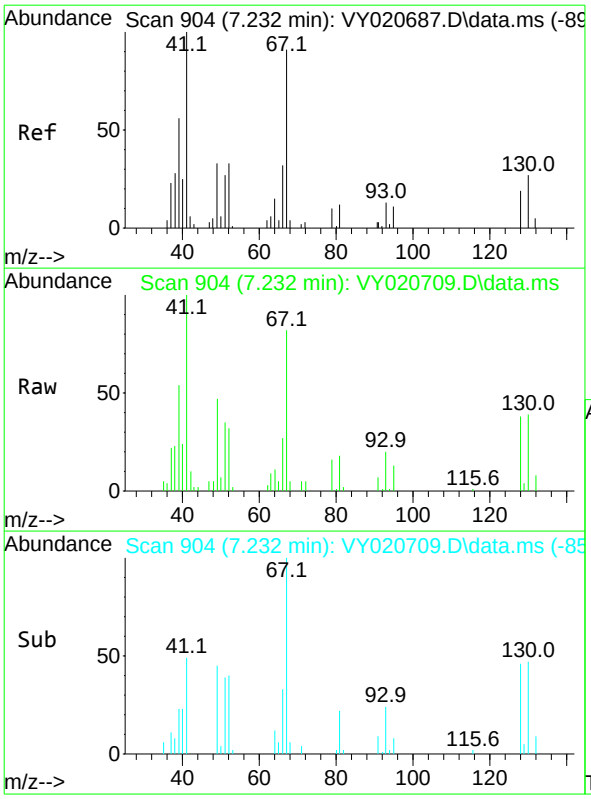



#40
Benzene
Concen: 51.623 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 78 Resp: 146525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.6 | 19.2 | 28.8 |

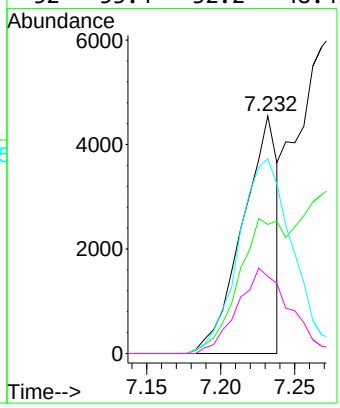





#41
Methacrylonitrile
Concen: 46.116 ug/l
RT: 7.232 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 41 Resp: 7518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.4 | 46.6 | 70.0# |
| 67 | 127.7 | 74.7 | 112.1# |
| 52 | 53.4 | 32.2 | 48.4# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

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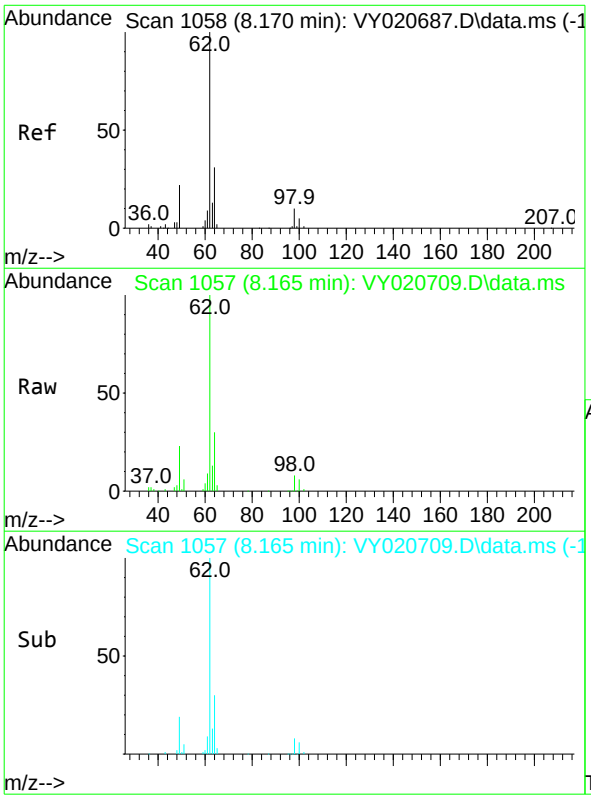
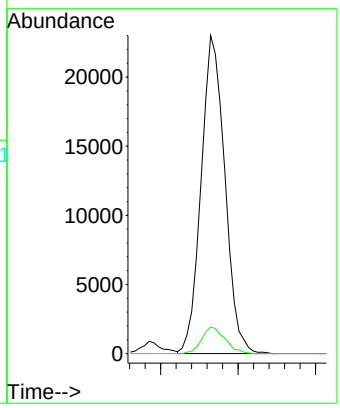
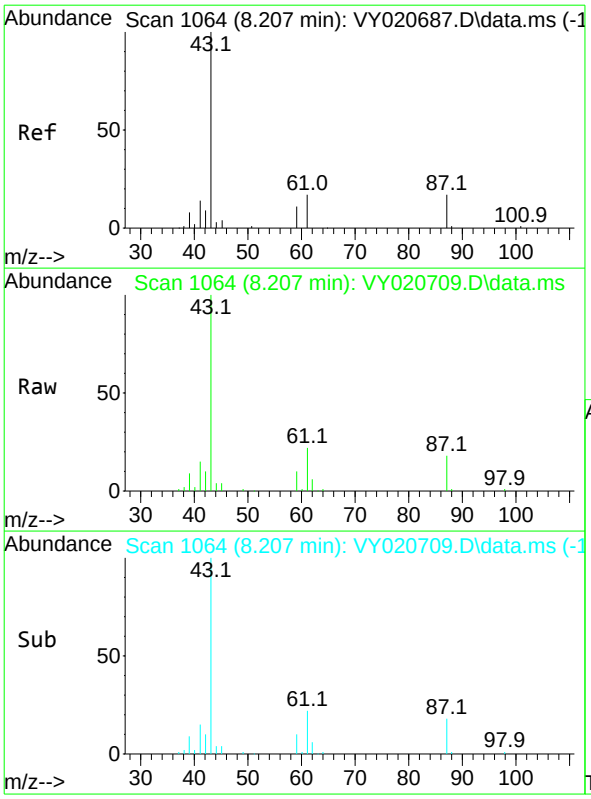



#42
1,2-Dichloroethane
Concen: 53.844 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 62 Resp: 49005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.2 | 0.0 | 16.6 |

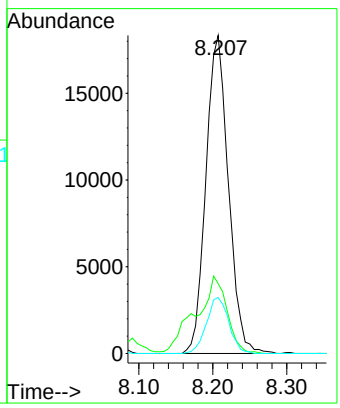





#43
Isopropyl Acetate
Concen: 56.406 ug/l
RT: 8.207 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 38693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 34.0 | 27.0 | 40.4 |
| 87 | 17.5 | 14.2 | 21.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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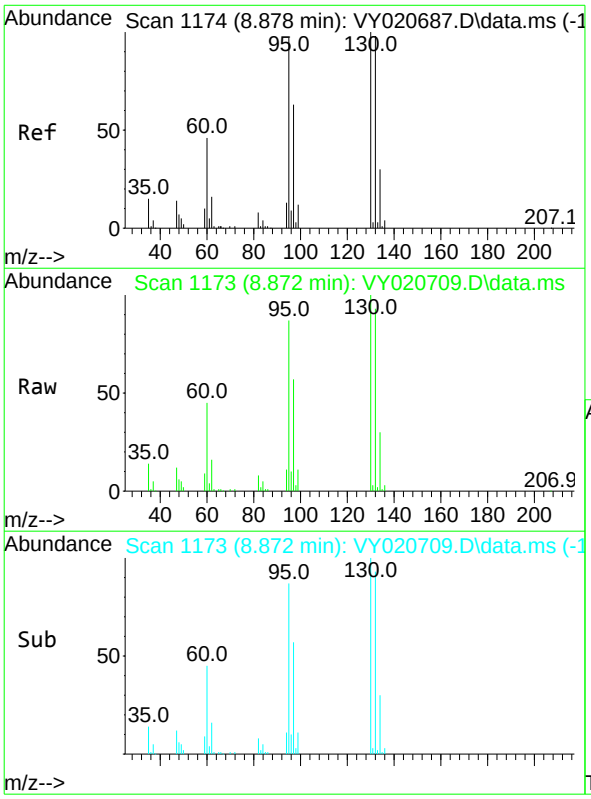
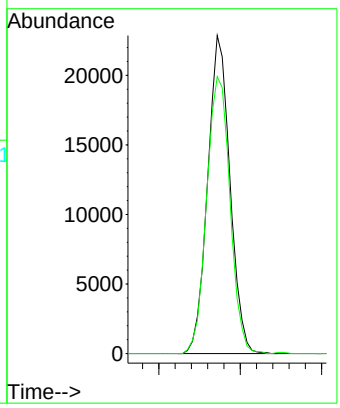
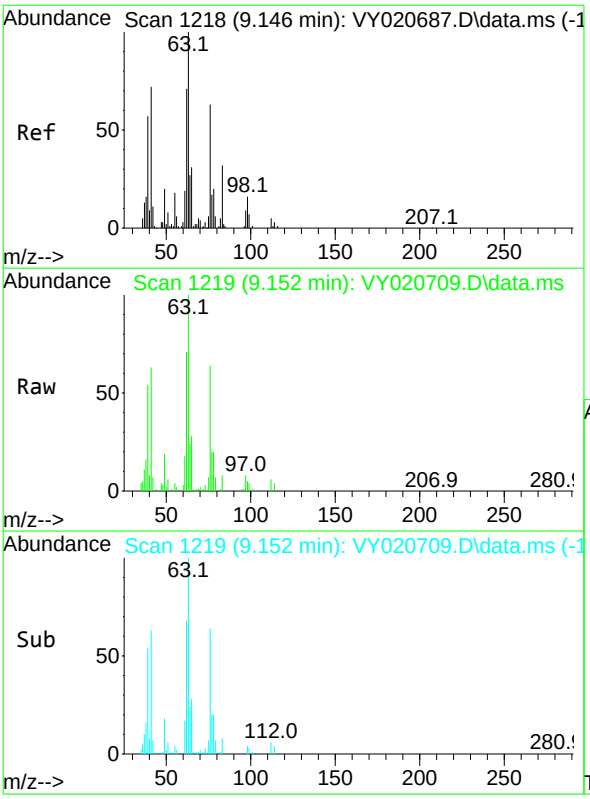



#44
Trichloroethene
Concen: 51.399 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:130 Resp: 43575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 87.1 | 0.0 | 194.8 |

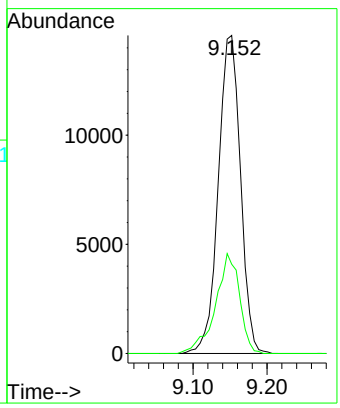





#45
1,2-Dichloropropane
Concen: 52.749 ug/l
RT: 9.152 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 63 Resp: 30307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 28.1 | 24.6 | 36.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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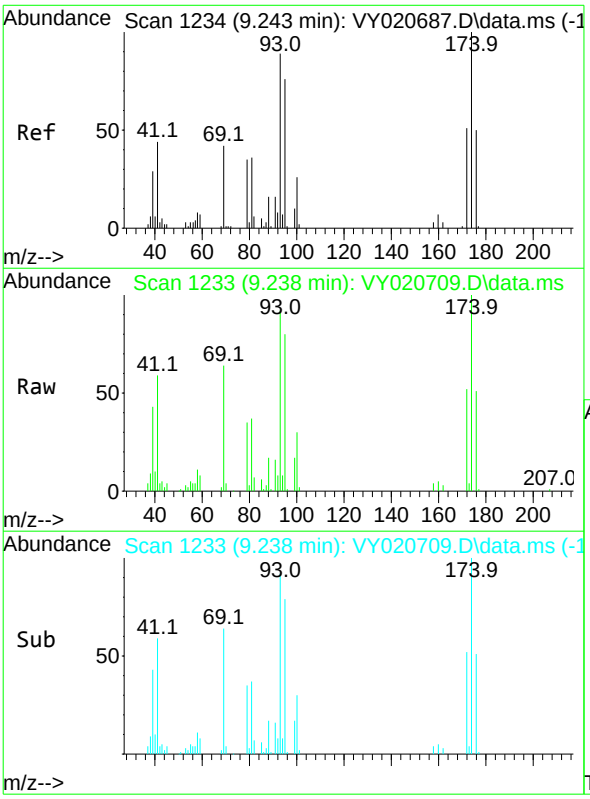
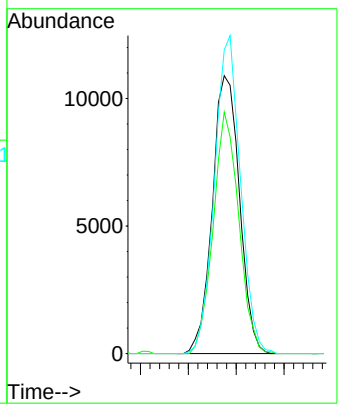
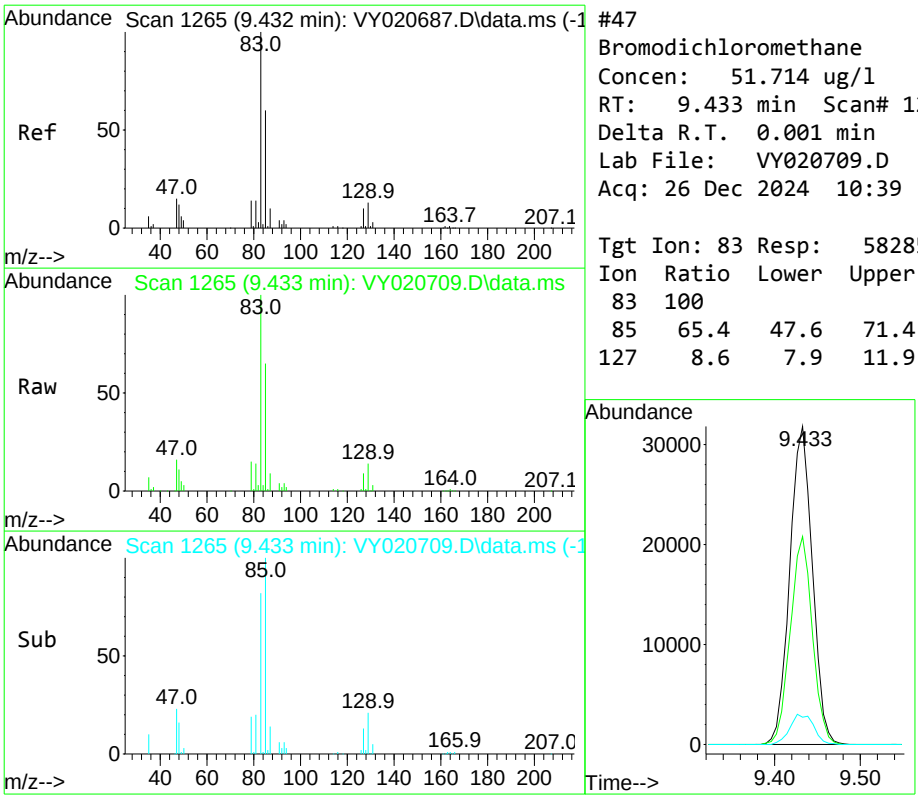



#46
Dibromomethane
Concen: 53.969 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 93 Resp: 21455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.8 | 67.8 | 101.8 |
| 174 | 109.4 | 89.4 | 134.0 |






#47
Bromodichloromethane
Concen: 51.714 ug/l
RT: 9.433 min Scan# 12
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 83 Resp: 58285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.4 | 47.6 | 71.4 |
| 127 | 8.6 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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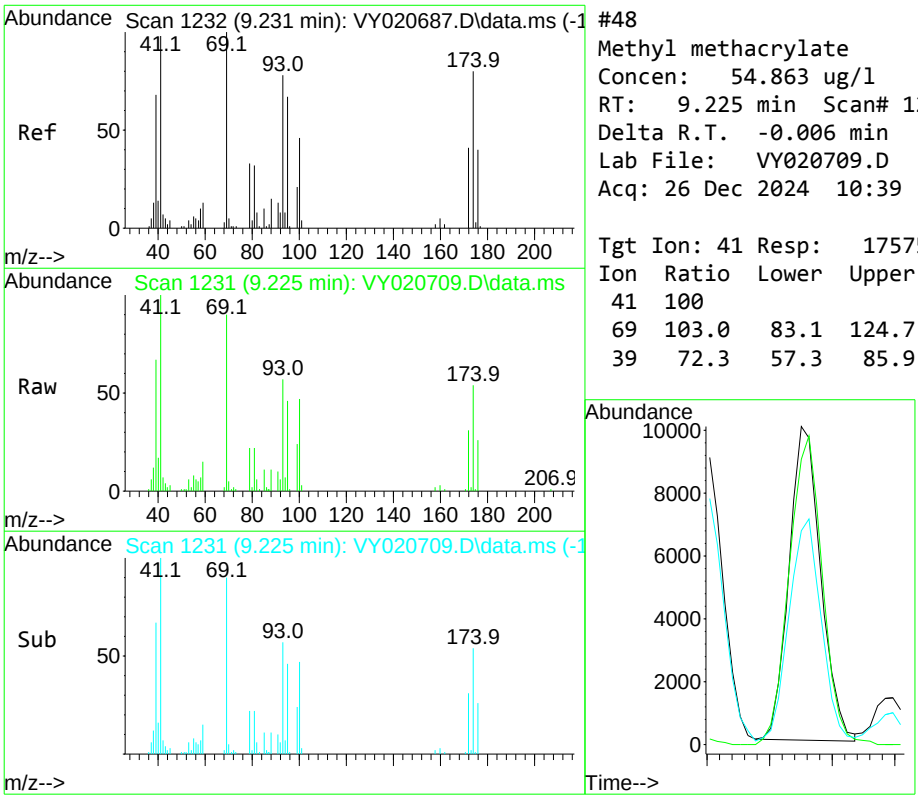
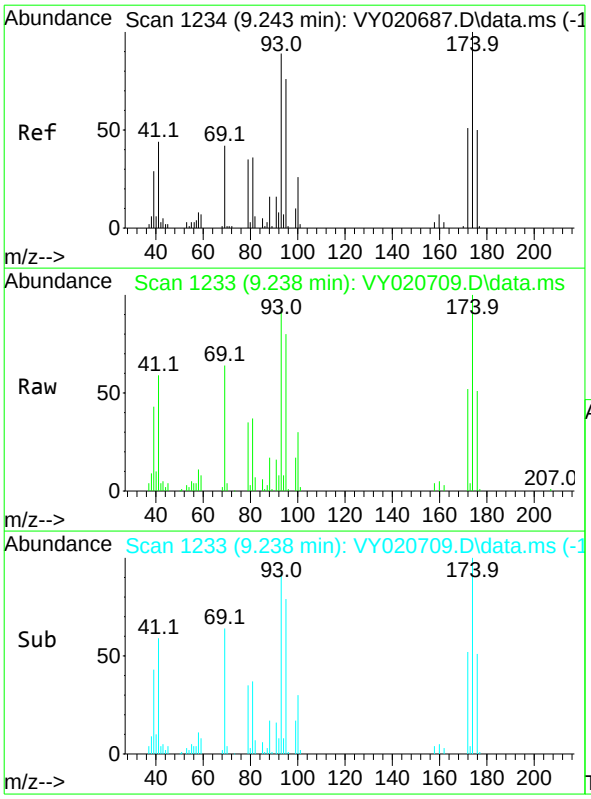



#48
Methyl methacrylate
Concen: 54.863 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 41 Resp: 17575

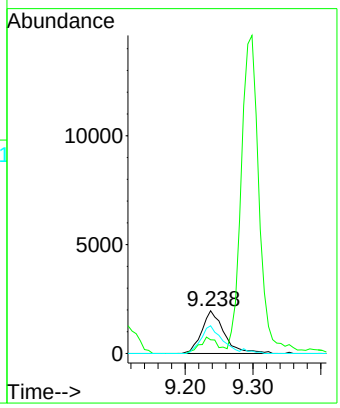
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 103.0 | 83.1 | 124.7 |
| 39 | 72.3 | 57.3 | 85.9 |




#49
1,4-Dioxane
Concen: 1194.426 ug/l
RT: 9.238 min Scan# 12
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 88 Resp: 4523

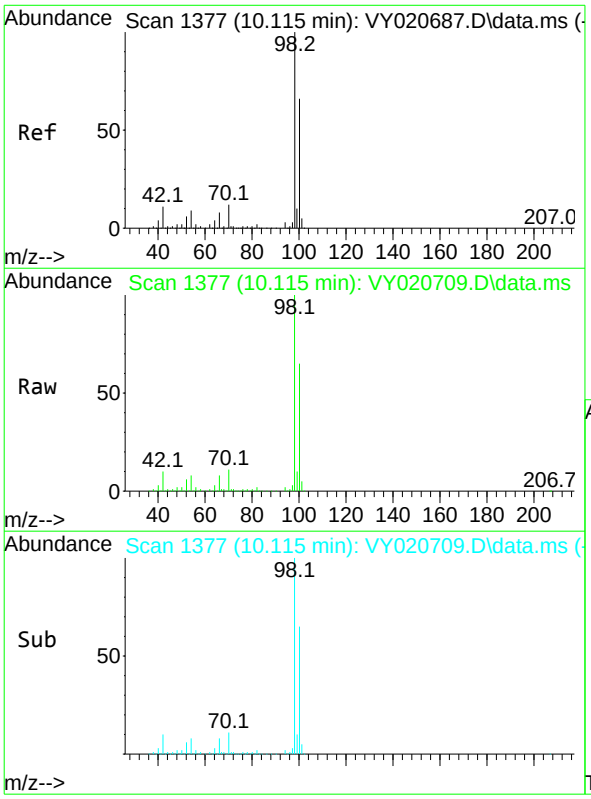
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.1 | 22.1 | 33.1 |
| 58 | 59.8 | 46.7 | 70.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

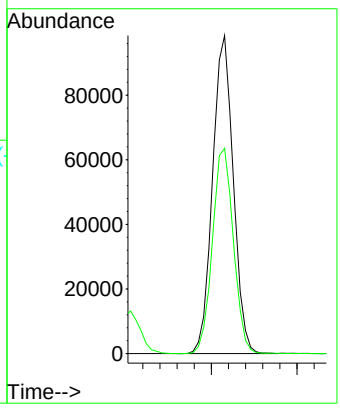
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

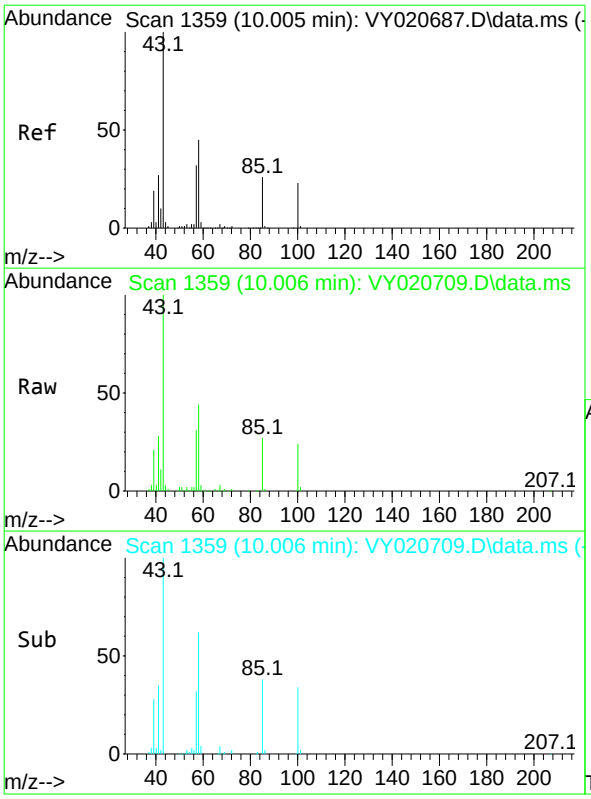



#50
Toluene-d8
Concen: 55.802 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 98 Resp: 165135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.6 | 52.2 | 78.4 |

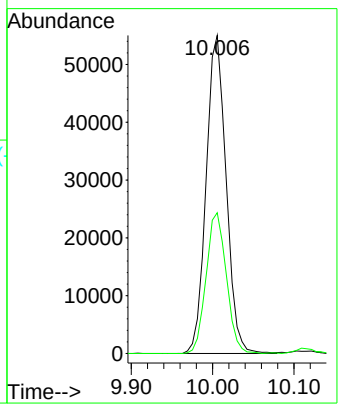





#51
4-Methyl-2-Pentanone
Concen: 283.711 ug/l
RT: 10.006 min Scan# 13
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 93936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.8 | 35.1 | 52.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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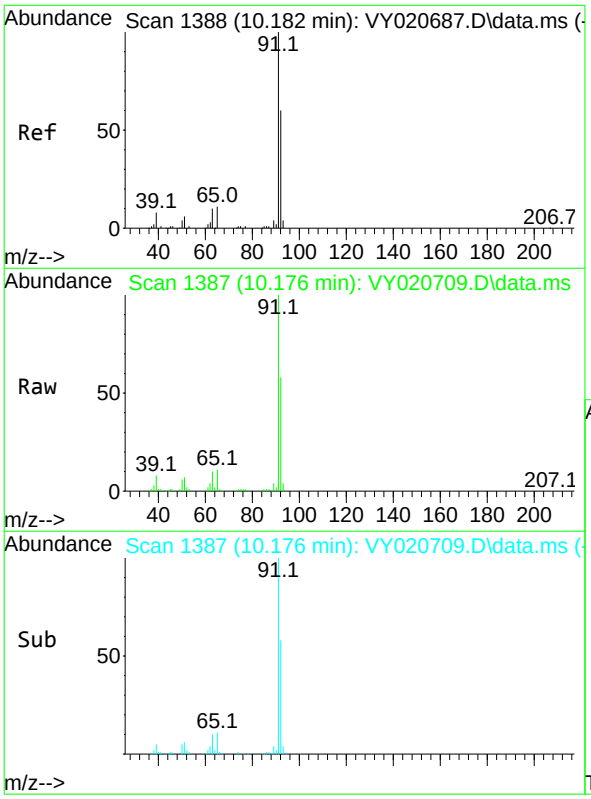
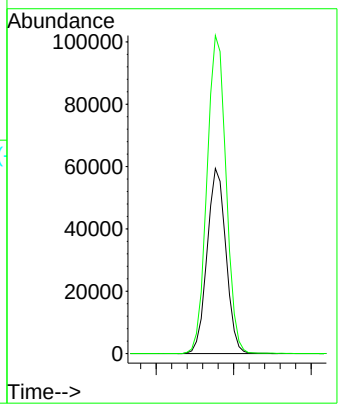
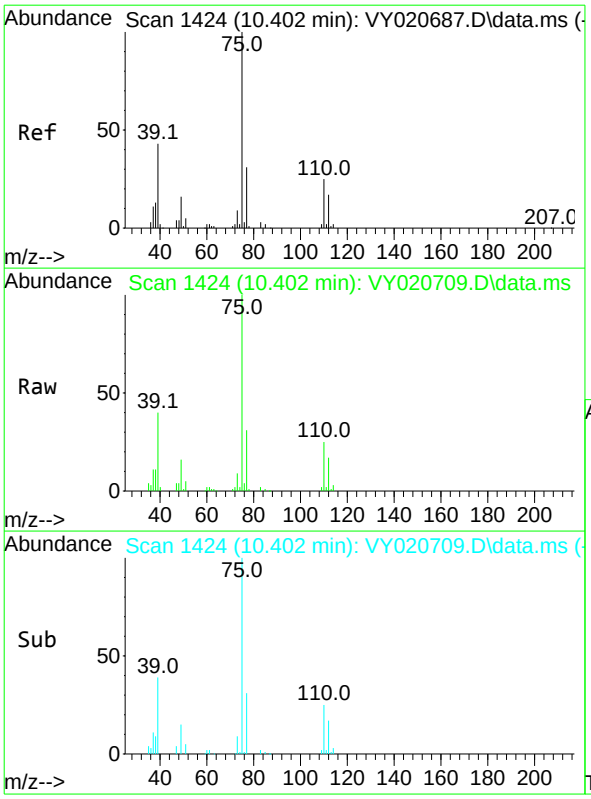



#52
Toluene
Concen: 51.531 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 92 Resp: 100248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.4 | 137.7 | 206.5 |

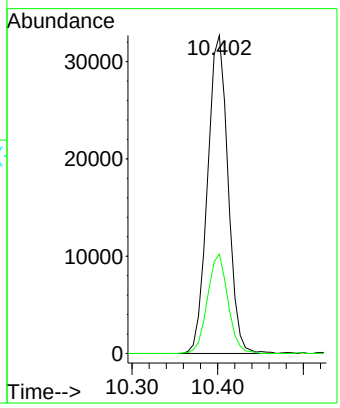





#53
t-1,3-Dichloropropene
Concen: 54.774 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 75 Resp: 54221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.1 | 37.7 |




**Instrument :**
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VSTDICCC050

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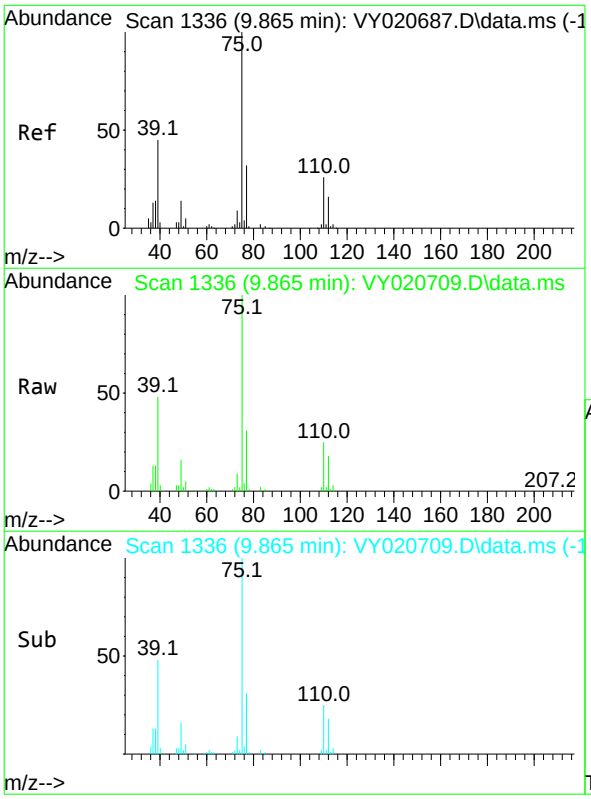
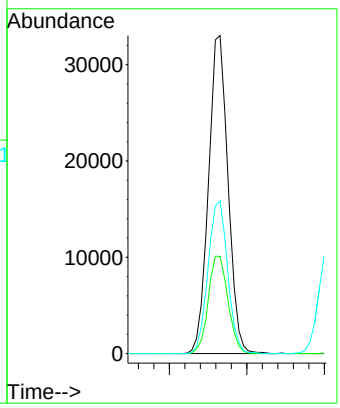
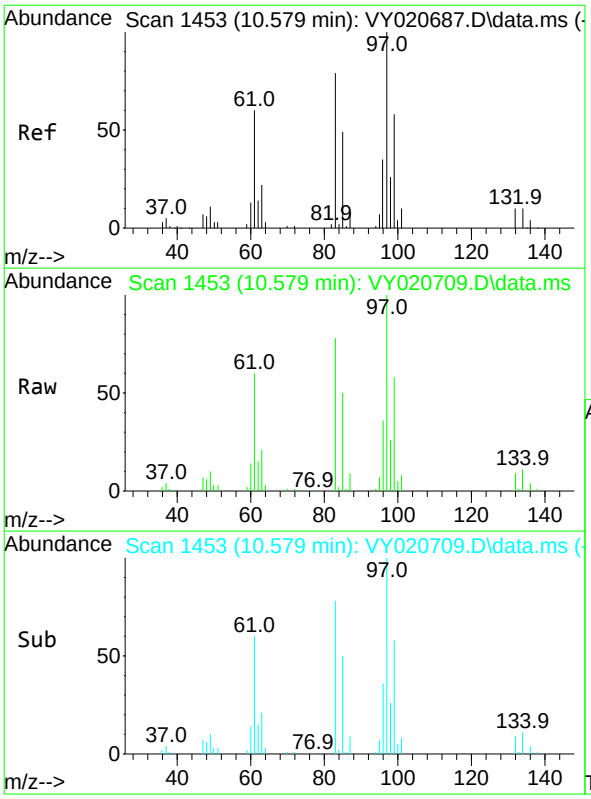



#54
cis-1,3-Dichloropropene
Concen: 53.316 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 75 Resp: 57850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.5 | 25.6 | 38.4 |
| 39 | 48.0 | 36.2 | 54.2 |

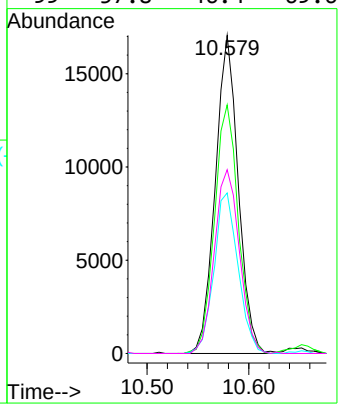





#55
1,1,2-Trichloroethane
Concen: 52.828 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 97 Resp: 26808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 78.2 | 63.1 | 94.7 |
| 85 | 50.5 | 39.5 | 59.3 |
| 99 | 57.8 | 46.4 | 69.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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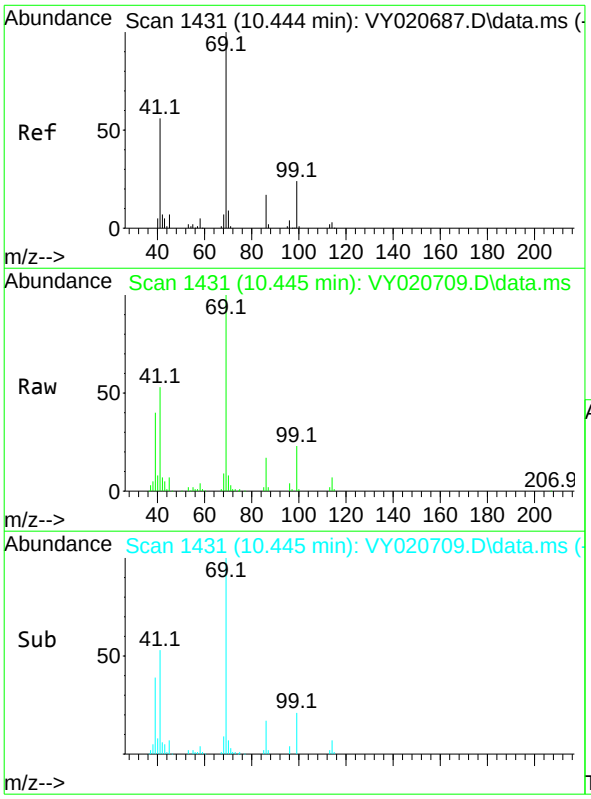
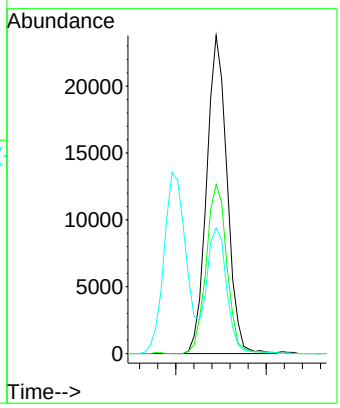
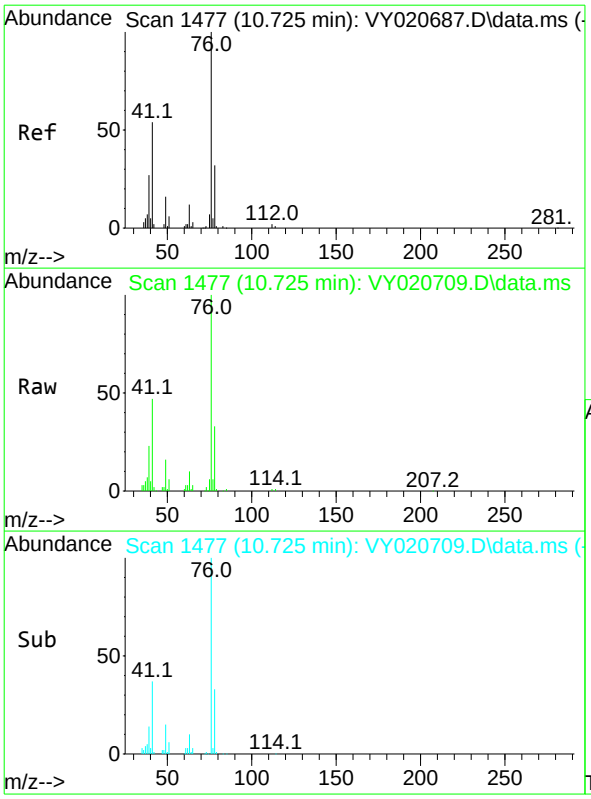



#56
Ethyl methacrylate
Concen: 56.020 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 69 Resp: 37346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 54.0 | 43.8 | 65.6 |
| 39 | 37.9 | 32.0 | 48.0 |

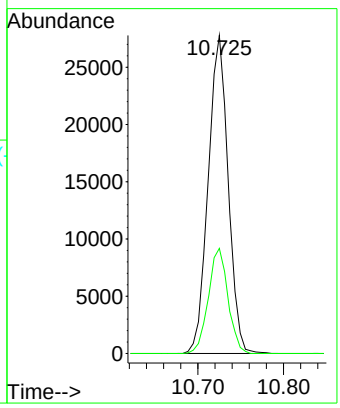





#57
1,3-Dichloropropane
Concen: 54.576 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 76 Resp: 44949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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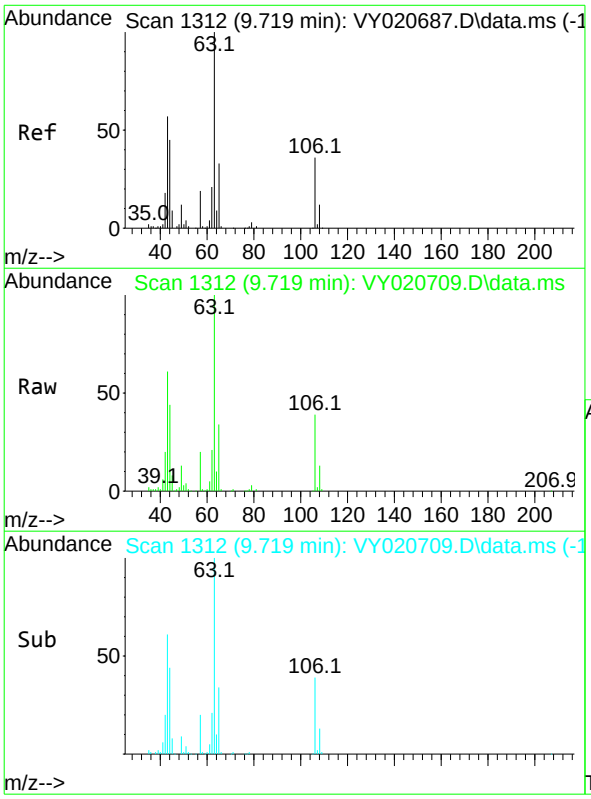
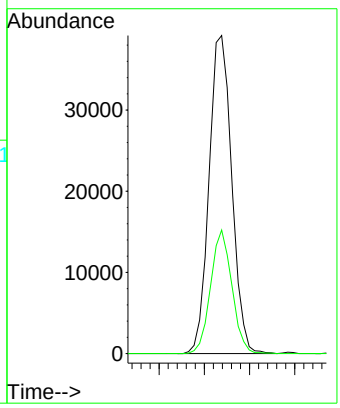
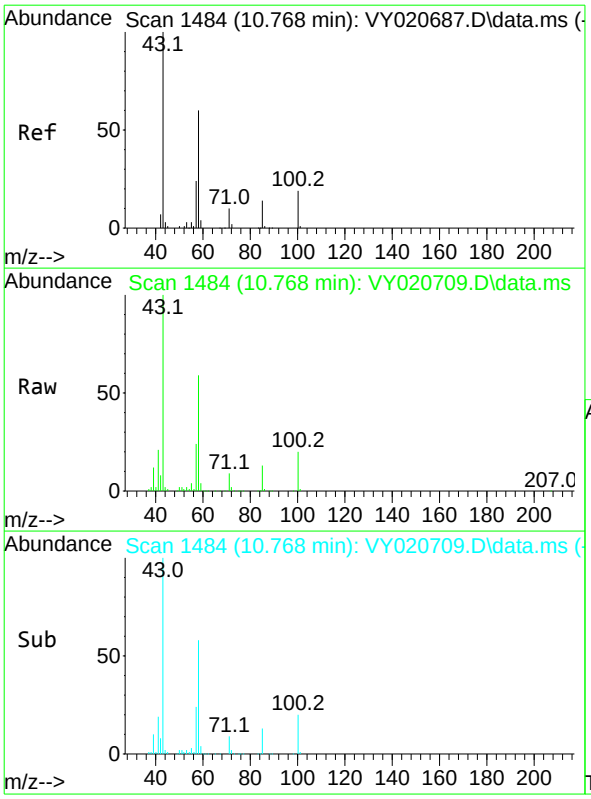



#58
2-Chloroethyl Vinyl ether
Concen: 294.122 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 63 Resp: 68375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 36.3 | 29.1 | 43.7 |

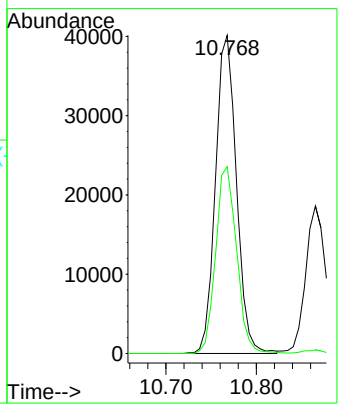





#59
2-Hexanone
Concen: 295.048 ug/l
RT: 10.768 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 64500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.8 | 30.1 | 90.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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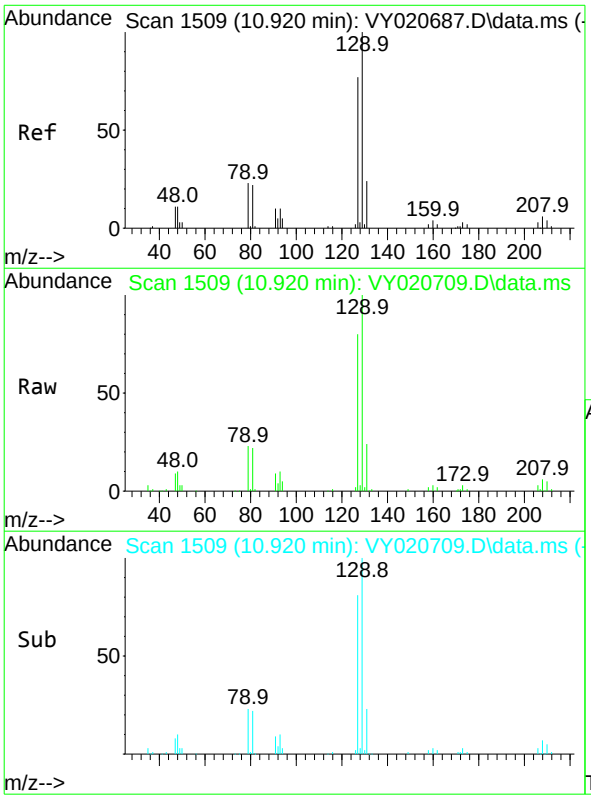
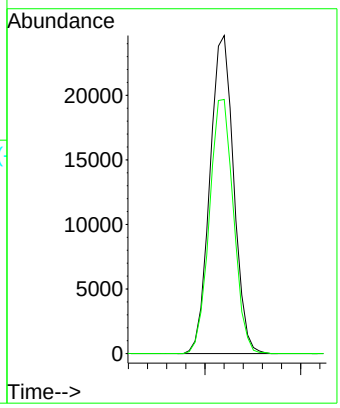
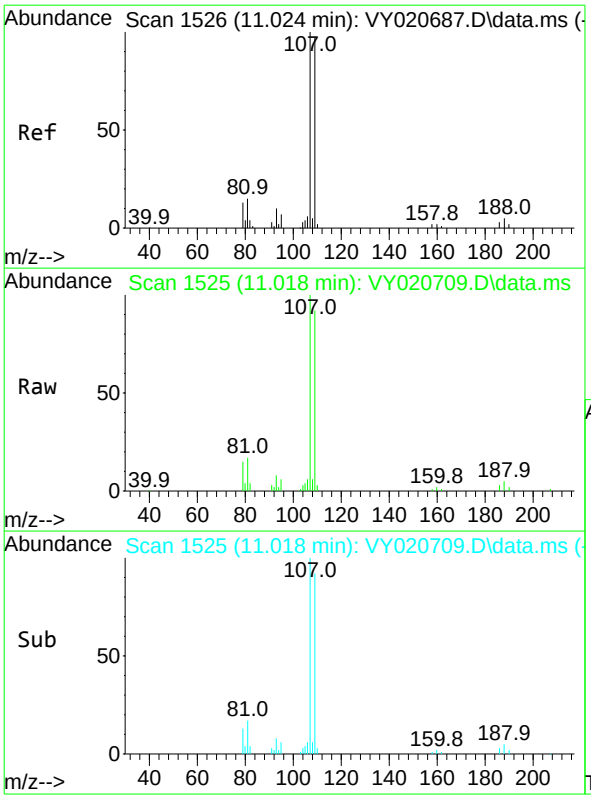



#60
Dibromochloromethane
Concen: 51.869 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:129 Resp: 42531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 80.7 | 38.5 | 115.5 |

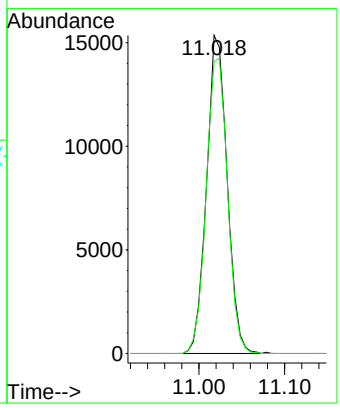





#61
1,2-Dibromoethane
Concen: 53.744 ug/l
RT: 11.018 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:107 Resp: 25662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.2 | 75.5 | 113.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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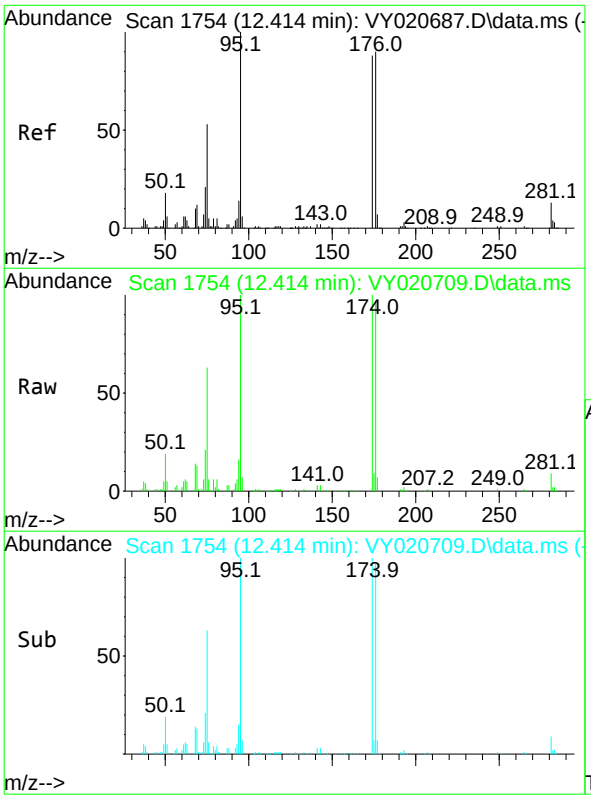
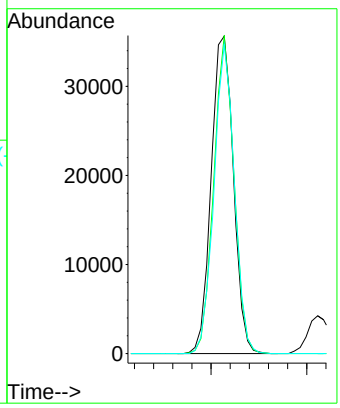
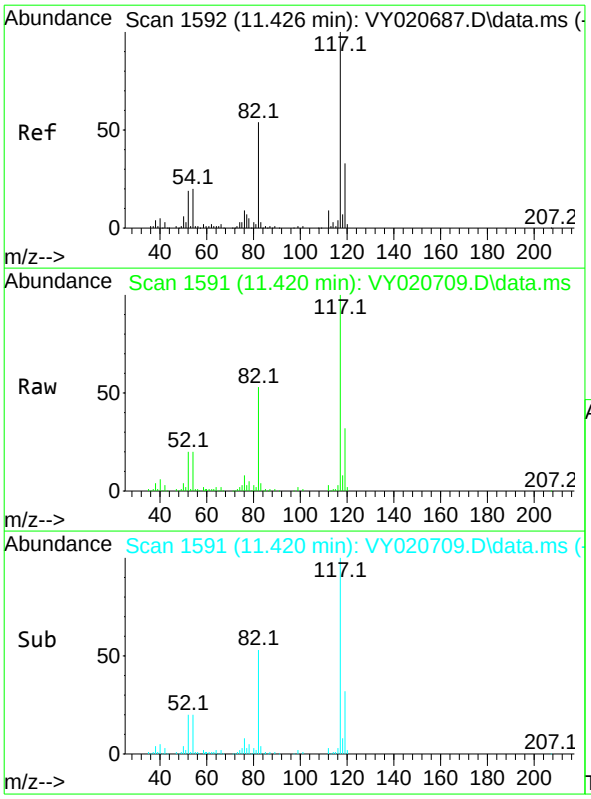



#62
4-Bromofluorobenzene
Concen: 58.248 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 95 Resp: 57393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.3 | 0.0 | 179.2 |
| 176 | 89.6 | 0.0 | 179.8 |

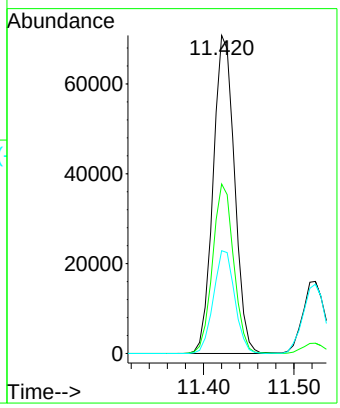





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:117 Resp: 116249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.3 | 43.4 | 65.2 |
| 119 | 32.3 | 26.6 | 39.8 |

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**ClientSampleId :**
VSTDICCC050

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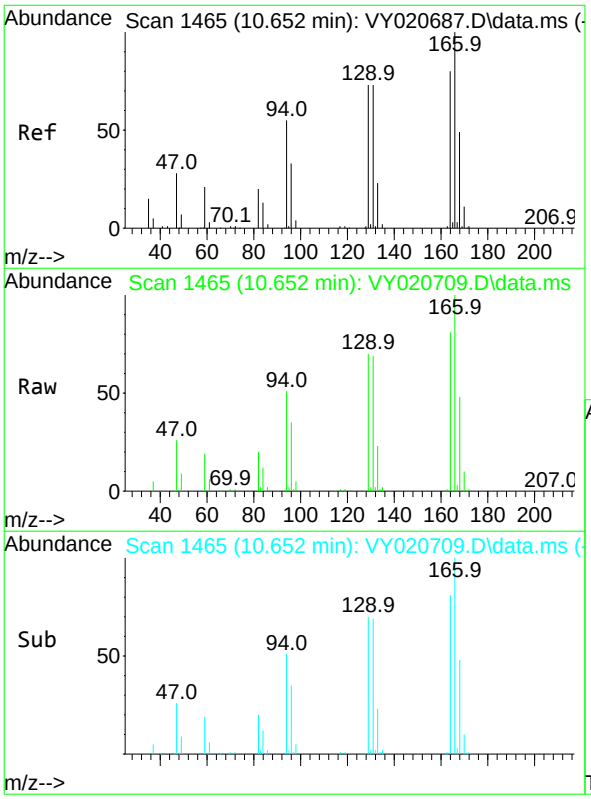
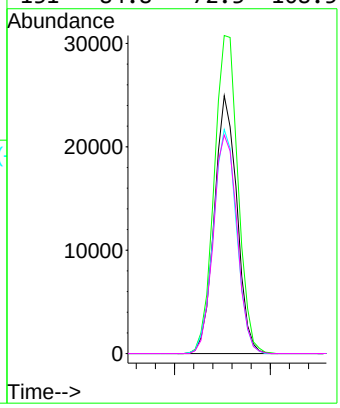
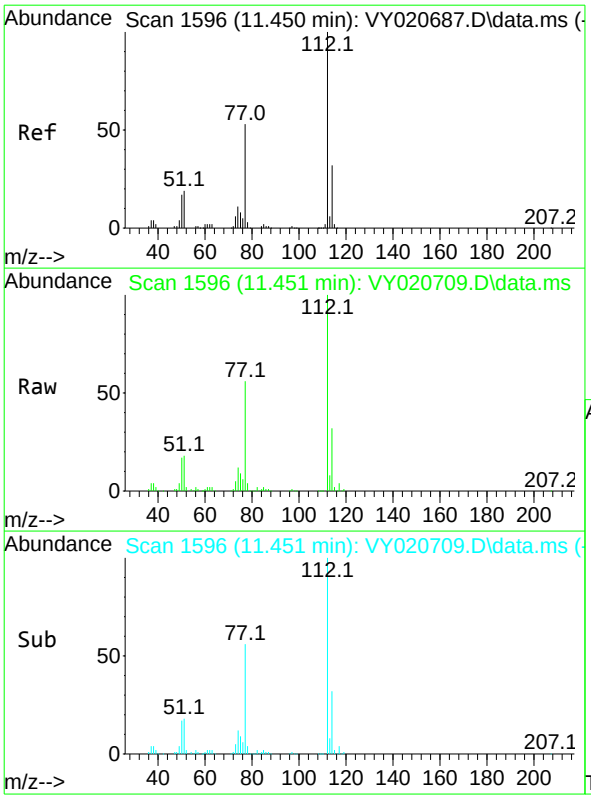



#64
Tetrachloroethene
Concen: 51.414 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:164 Resp: 40834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.3 | 99.6 | 149.4 |
| 129 | 86.9 | 73.0 | 109.4 |
| 131 | 84.8 | 72.3 | 108.5 |

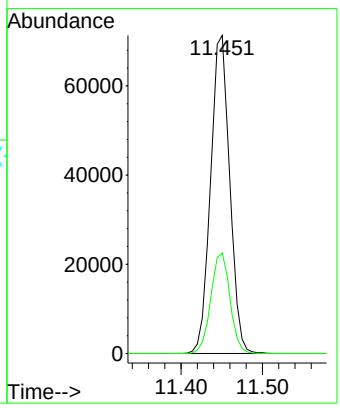





#65
Chlorobenzene
Concen: 51.151 ug/l
RT: 11.451 min Scan# 15
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:112 Resp: 116432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.6 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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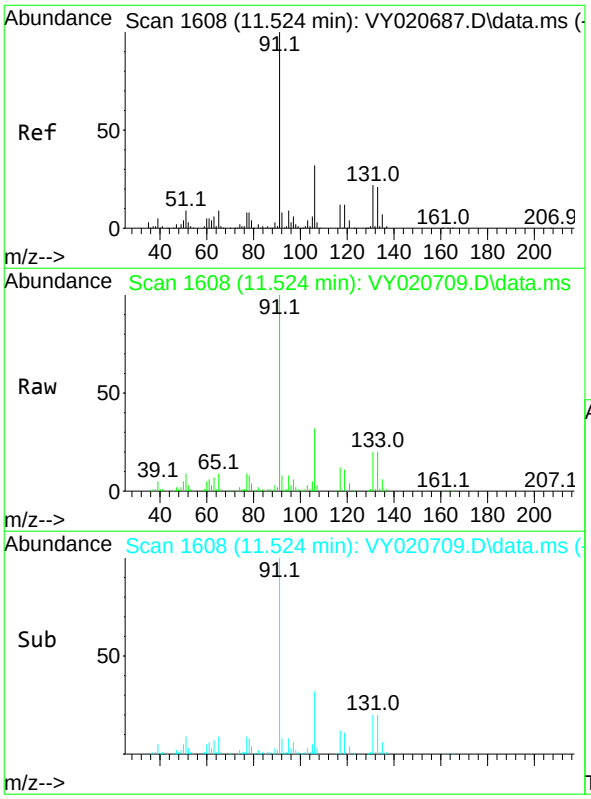
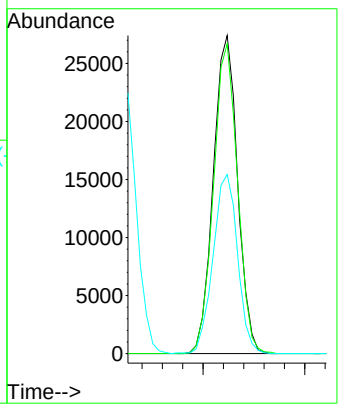
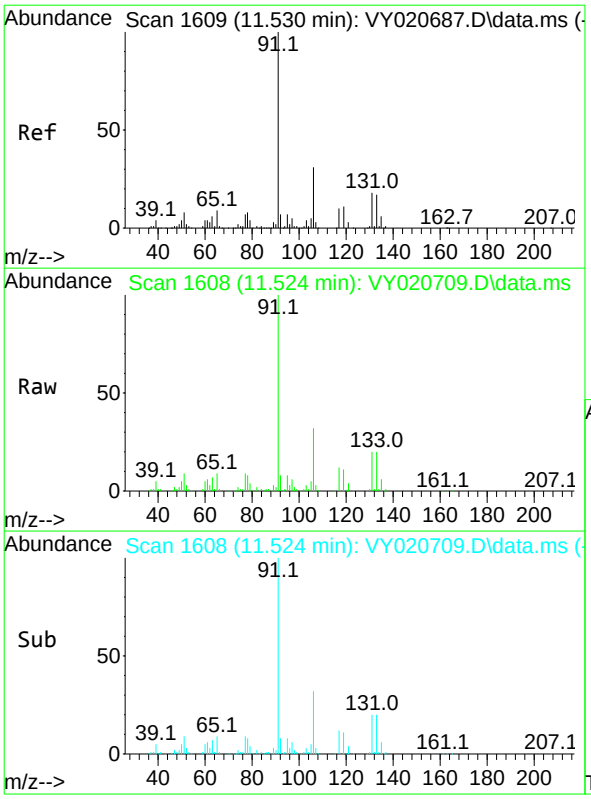



#66
1,1,1,2-Tetrachloroethane
Concen: 51.360 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:131 Resp: 45293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.5 | 48.6 | 145.9 |
| 119 | 57.1 | 28.4 | 85.3 |

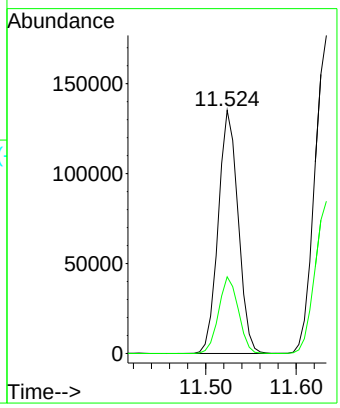





#67
Ethyl Benzene
Concen: 51.942 ug/l
RT: 11.524 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 91 Resp: 206644

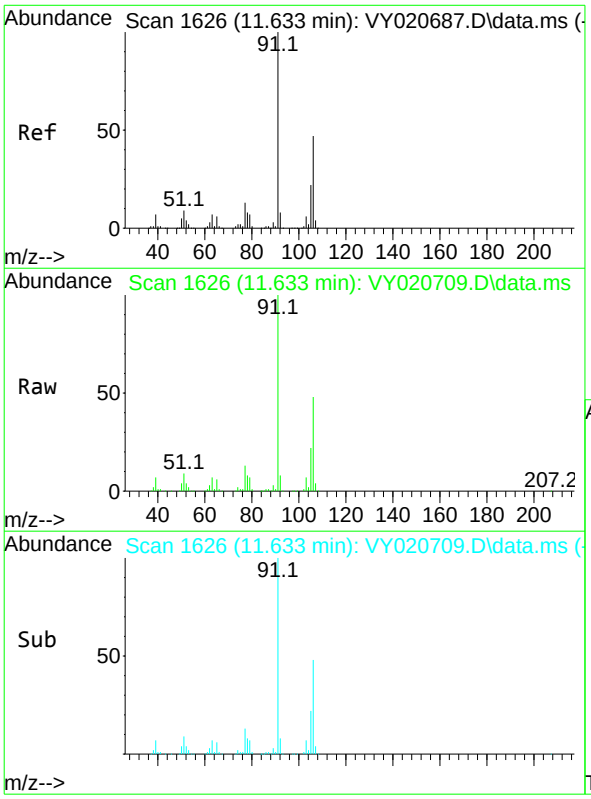
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 24.5 | 36.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

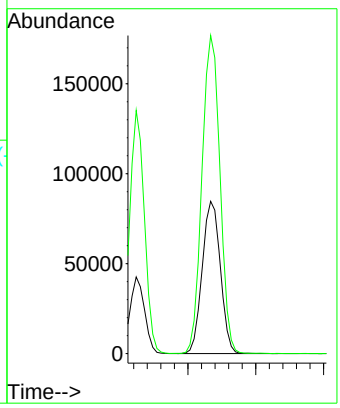
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

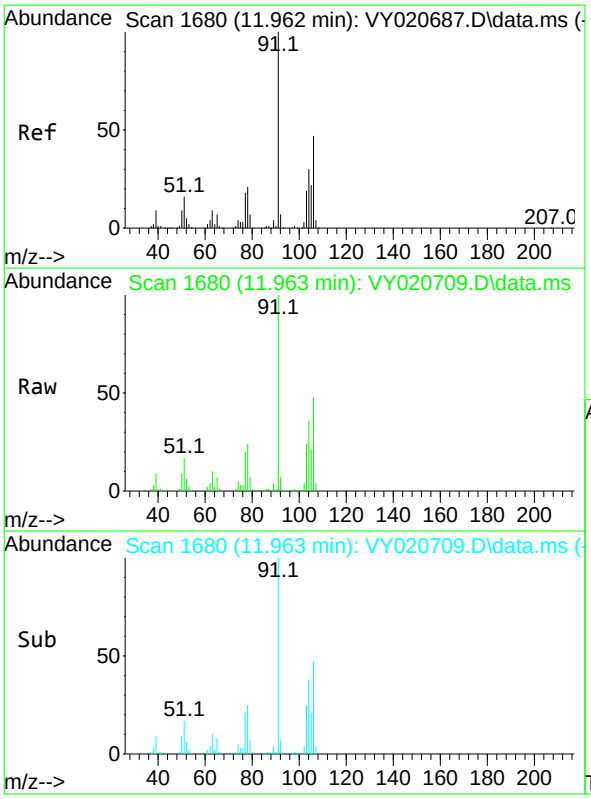



#68
m/p-Xylenes
Concen: 103.449 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:106 Resp: 156992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.9 | 166.6 | 250.0 |

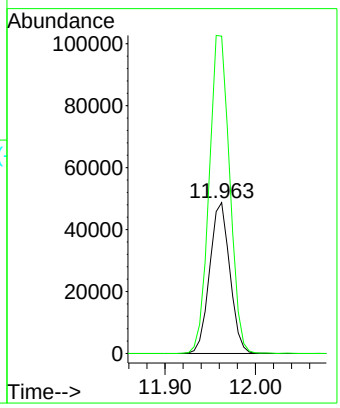





#69
o-Xylene
Concen: 52.115 ug/l
RT: 11.963 min Scan# 16
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:106 Resp: 75564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.9 | 108.6 | 325.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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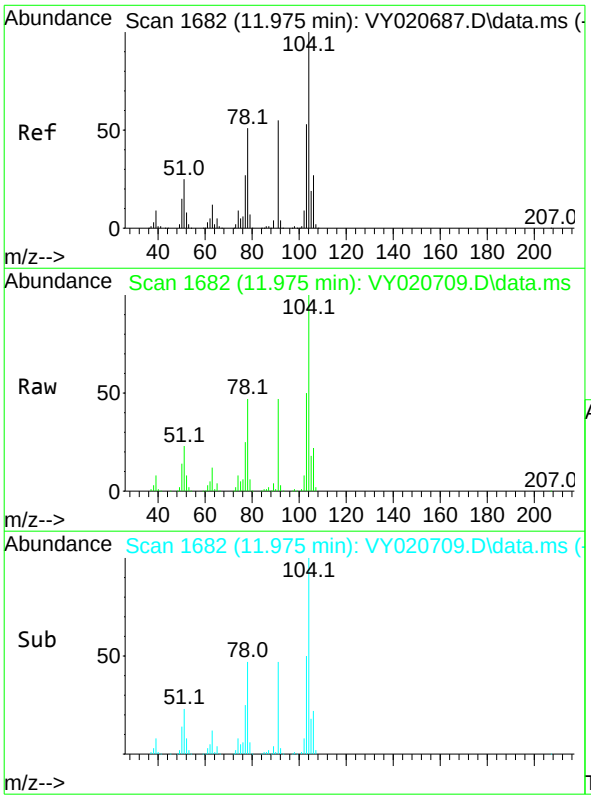
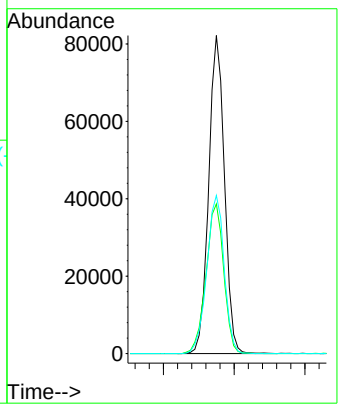
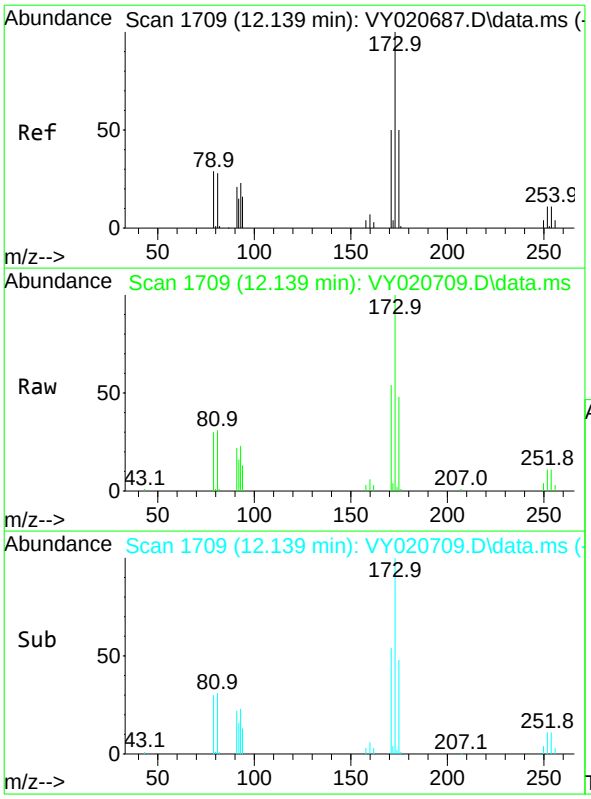



#70
Styrene
Concen: 52.061 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:104 Resp: 126718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.0 | 43.0 | 64.4 |
| 103 | 55.0 | 44.4 | 66.6 |

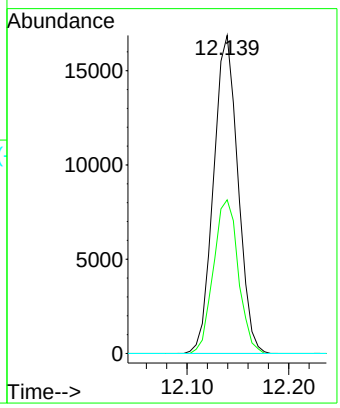





#71
Bromoform
Concen: 55.357 ug/l
RT: 12.139 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:173 Resp: 28066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

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VSTDICCC050

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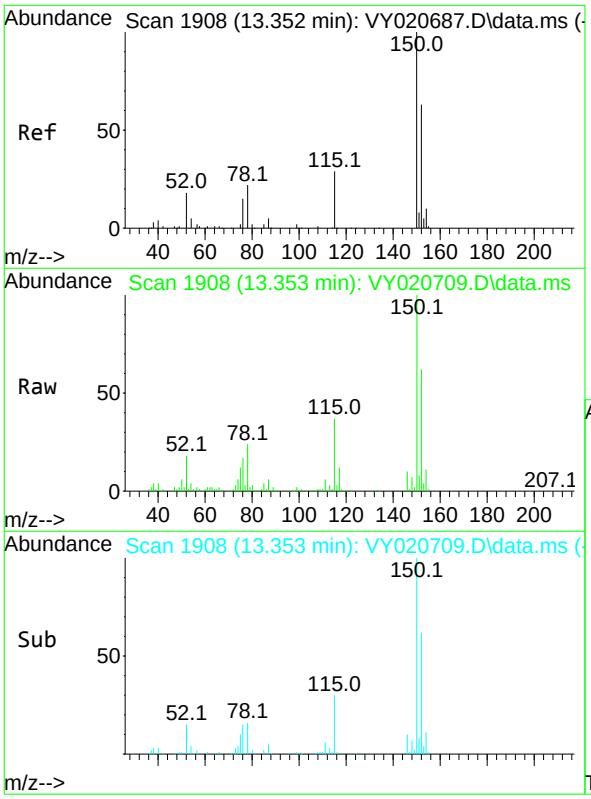
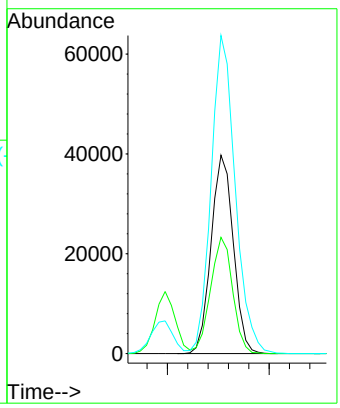
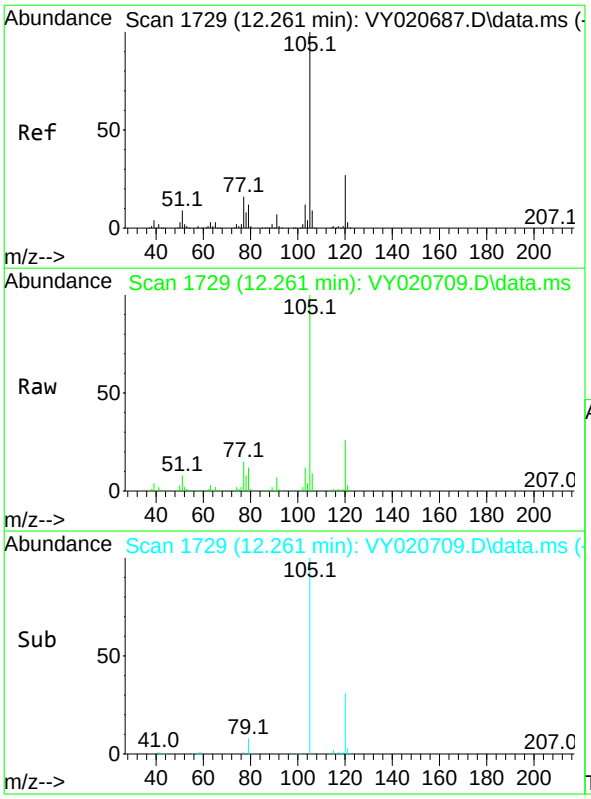



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:152 Resp: 60351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.1 | 30.3 | 90.9 |
| 150 | 174.0 | 0.0 | 349.0 |

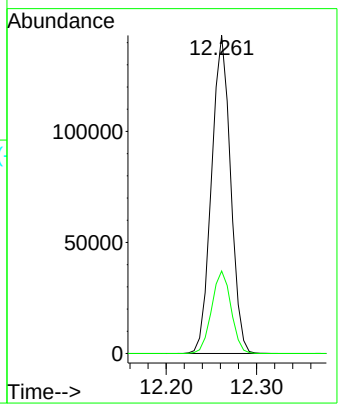





#73
Isopropylbenzene
Concen: 50.166 ug/l
RT: 12.261 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:105 Resp: 209755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.3 | 39.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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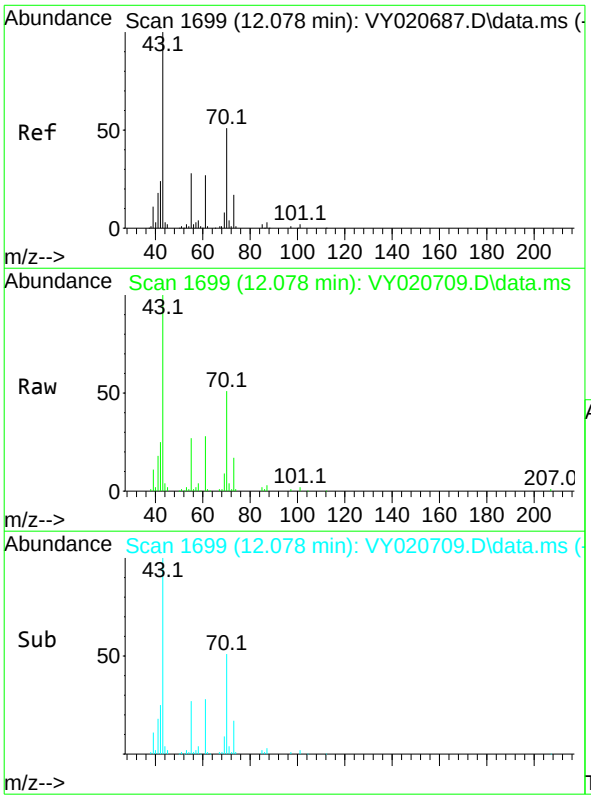
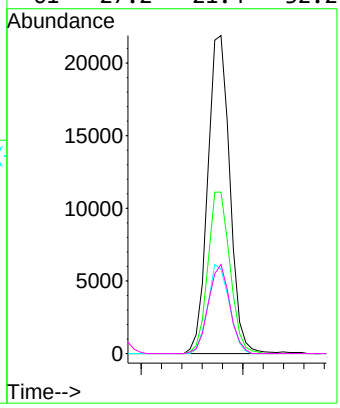
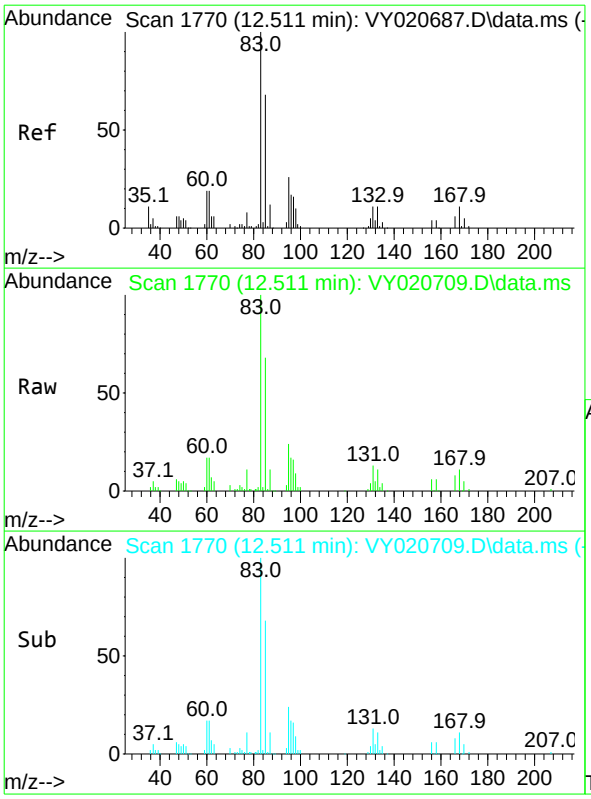



#74
N-amyl acetate
Concen: 55.579 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 33024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.7 | 39.7 | 59.5 |
| 55 | 27.1 | 21.5 | 32.3 |
| 61 | 27.2 | 21.4 | 32.2 |

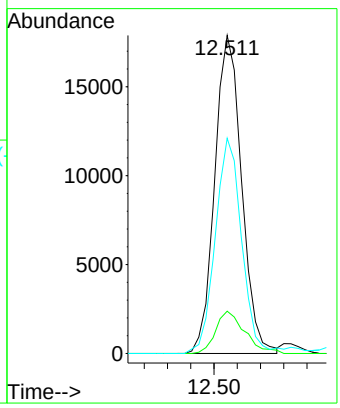





#75
1,1,2,2-Tetrachloroethane
Concen: 53.553 ug/l
RT: 12.511 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 83 Resp: 28705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.4 | 6.9 | 20.7 |
| 85 | 66.5 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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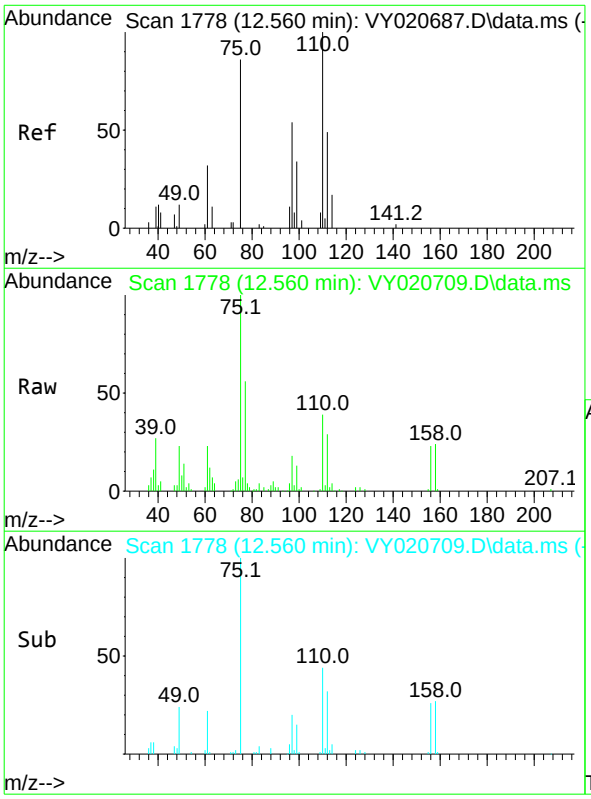
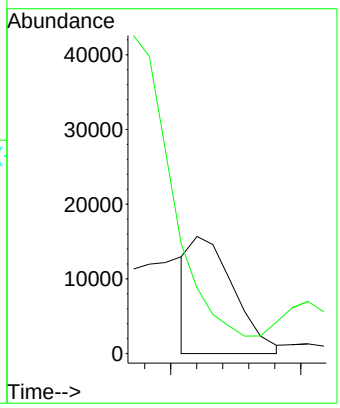
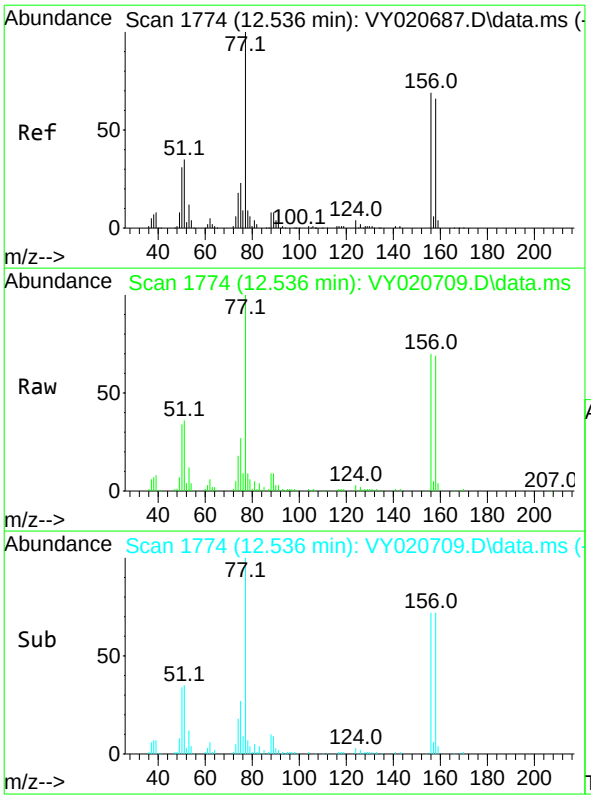



#76
1,2,3-Trichloropropane
Concen: 38.088 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 75 Resp: 18132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |






#77
Bromobenzene
Concen: 51.155 ug/l
RT: 12.536 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:156 Resp: 49237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 153.5 | 78.3 | 235.0 |
| 158 | 98.2 | 48.3 | 144.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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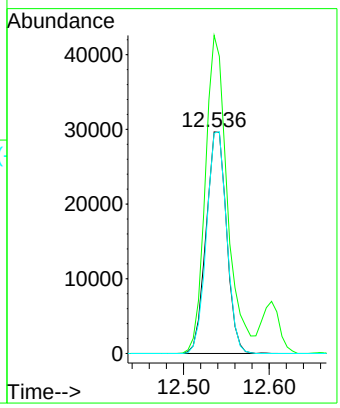
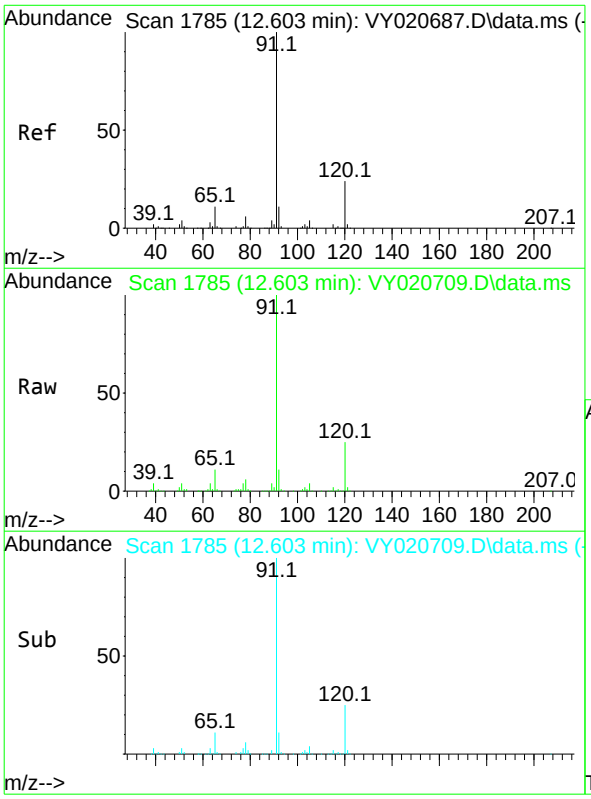
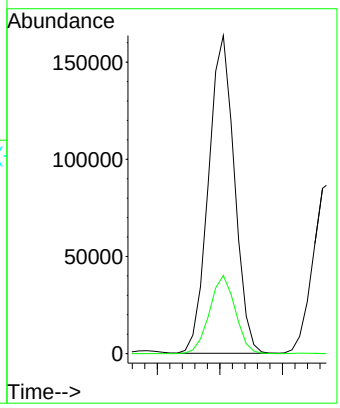


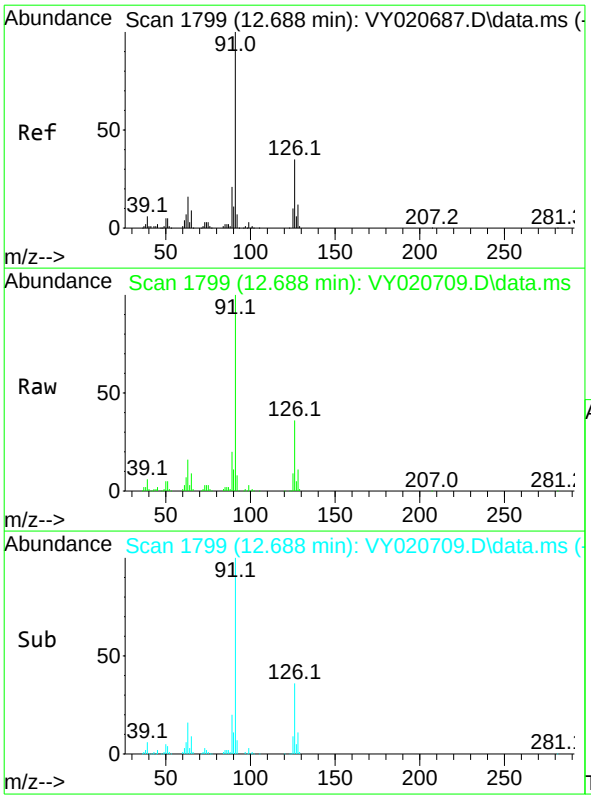




#78
n-propylbenzene
Concen: 50.173 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 91 Resp: 235128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.3 | 12.3 | 36.8 |

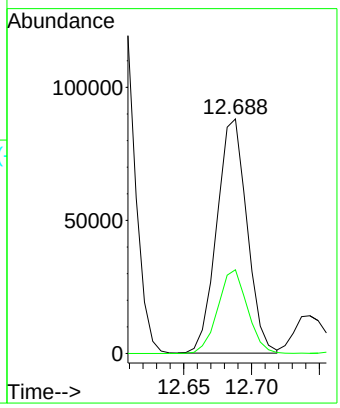





#79
2-Chlorotoluene
Concen: 51.012 ug/l
RT: 12.688 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 91 Resp: 136280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.8 | 53.3 |

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VSTDICCC050

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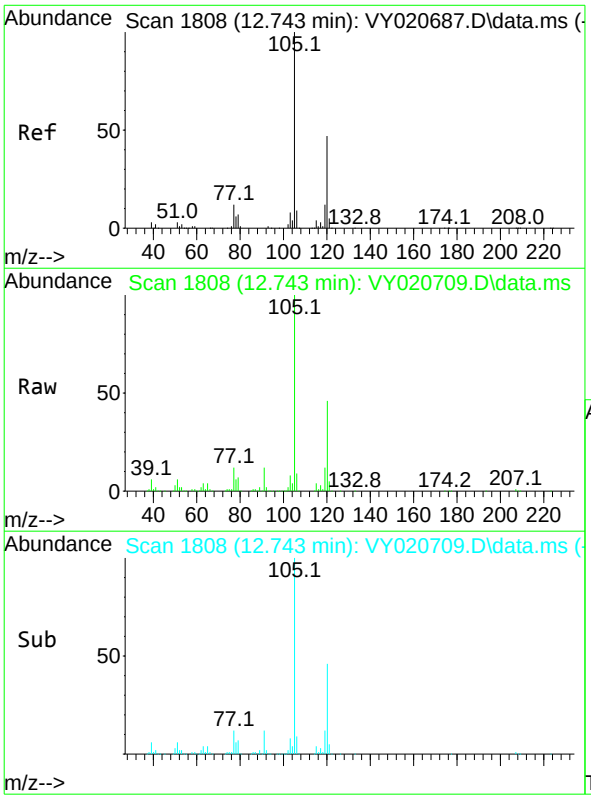
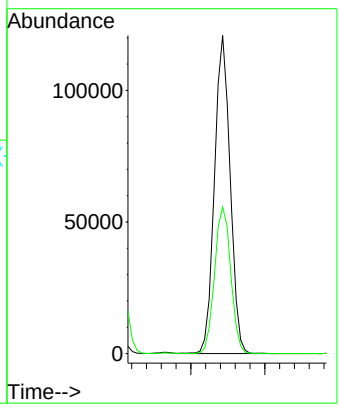
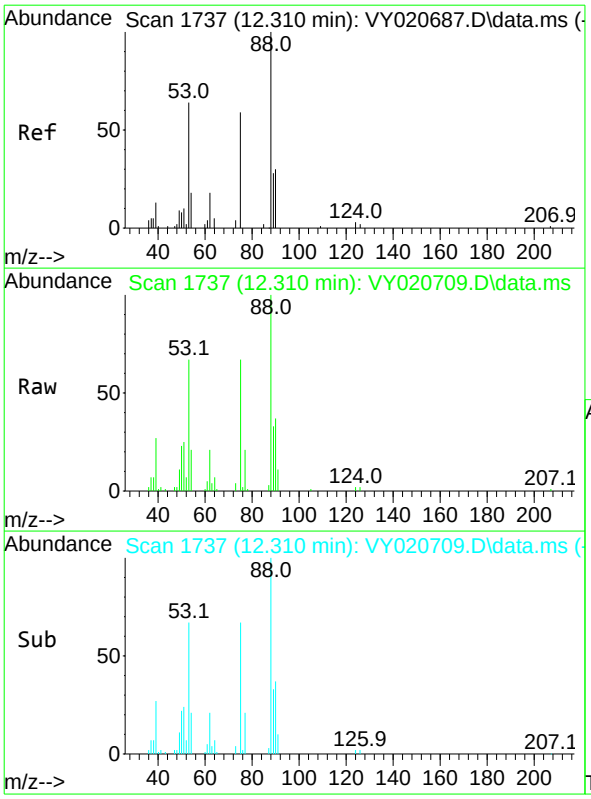



#80
1,3,5-Trimethylbenzene
Concen: 51.057 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:105 Resp: 177863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.5 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 54.534 ug/l
RT: 12.310 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 75 Resp: 10590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 103.8 | 83.1 | 124.7 |
| 89 | 54.6 | 40.6 | 61.0 |

**Instrument :**
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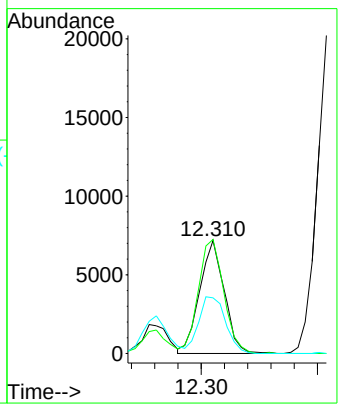
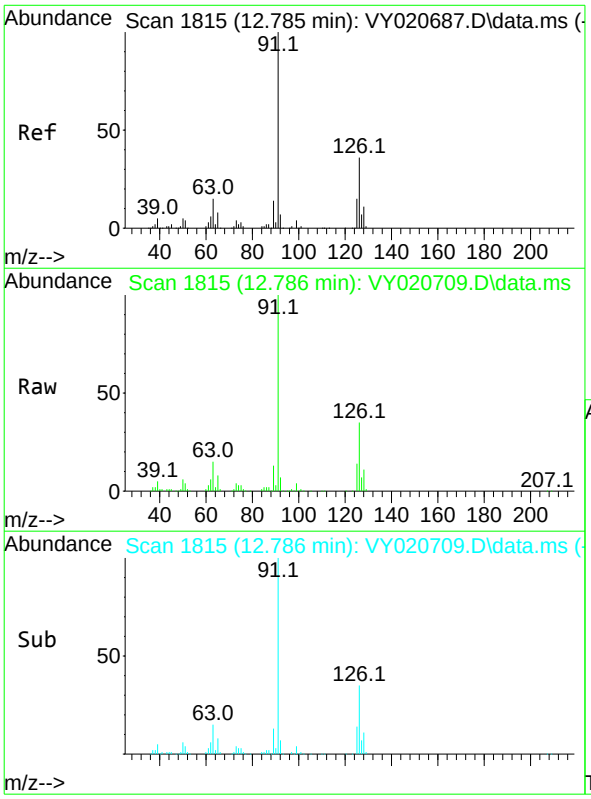
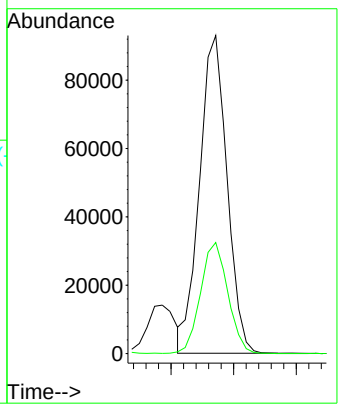


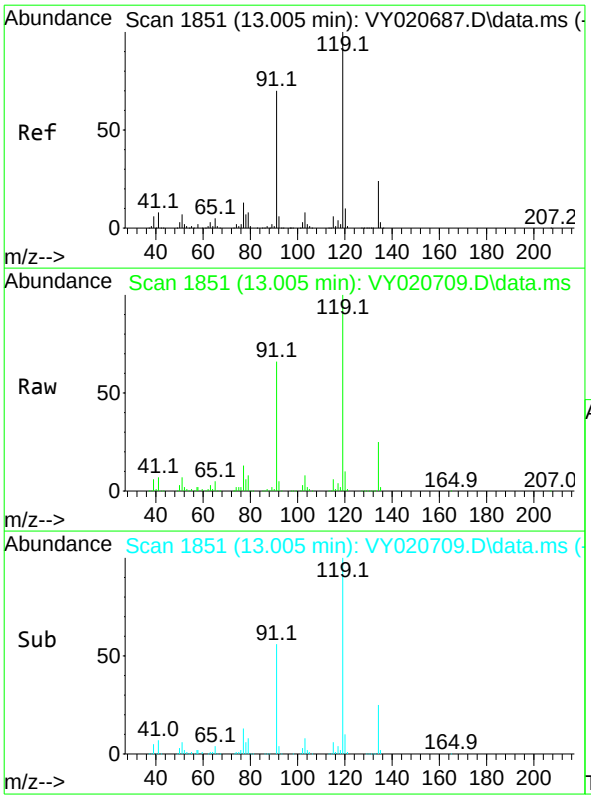




#82
4-Chlorotoluene
Concen: 51.241 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 91 Resp: 141476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.8 | 53.5 |

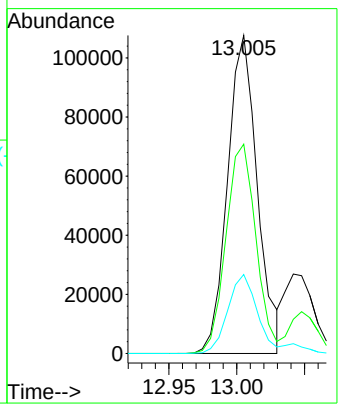





#83
tert-Butylbenzene
Concen: 50.596 ug/l
RT: 13.005 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:119 Resp: 164603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.1 | 33.6 | 100.8 |
| 134 | 26.6 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

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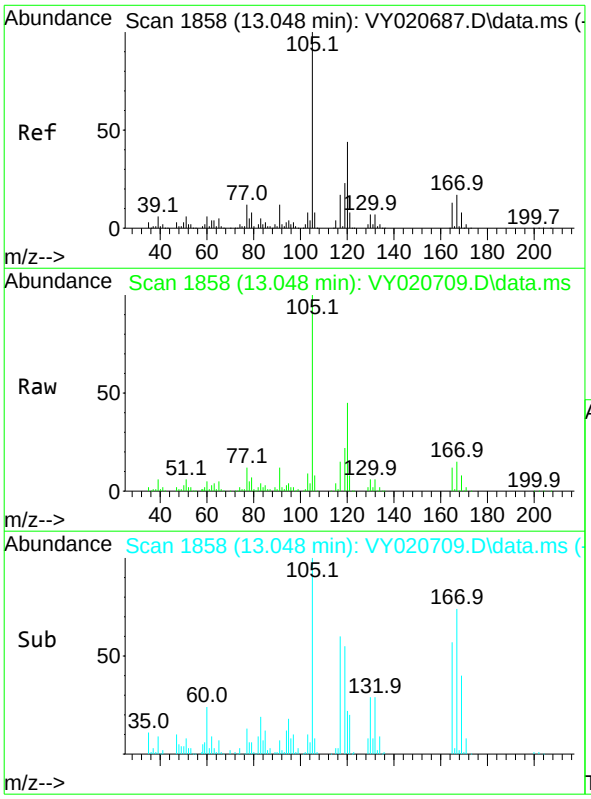
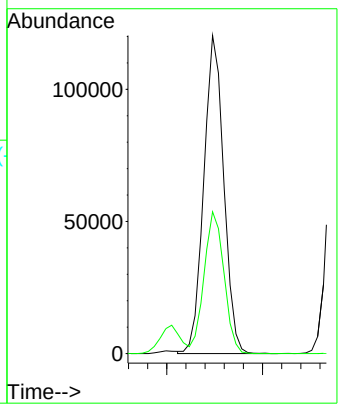
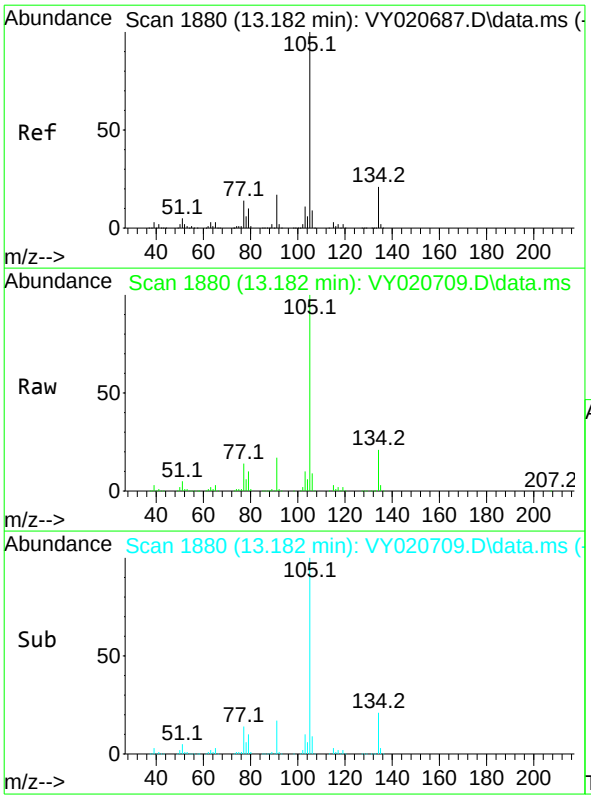



#84
1,2,4-Trimethylbenzene
Concen: 51.423 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:105 Resp: 174321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 21.8 | 65.3 |

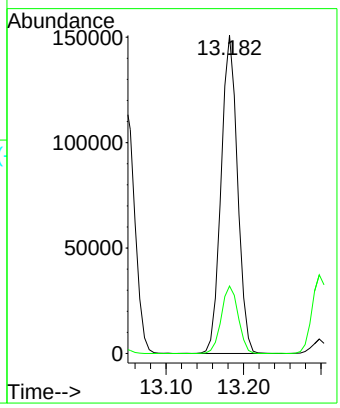





#85
sec-Butylbenzene
Concen: 50.603 ug/l
RT: 13.182 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:105 Resp: 221870

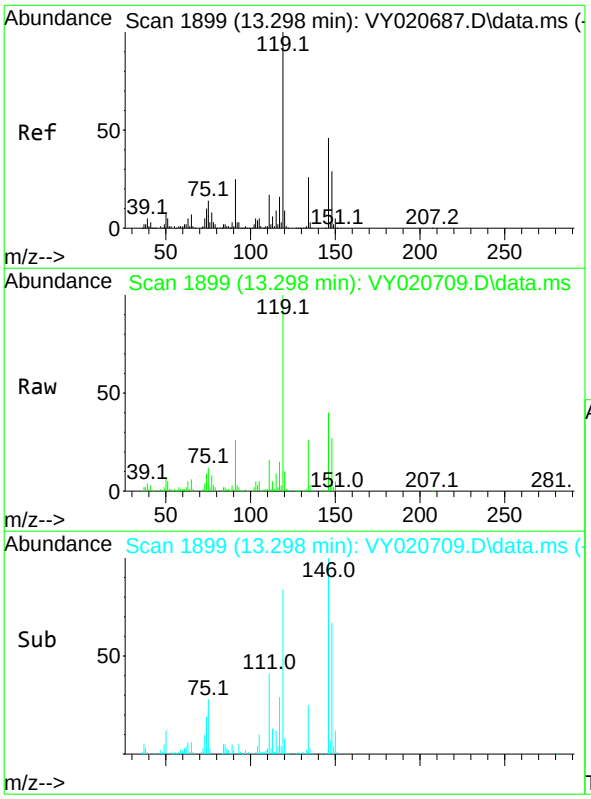
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.8 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

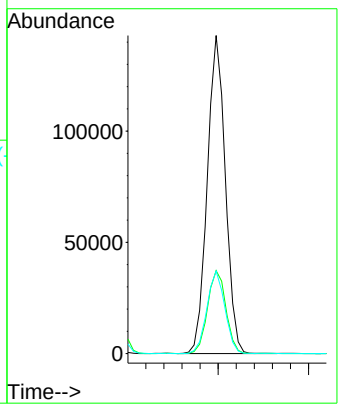
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

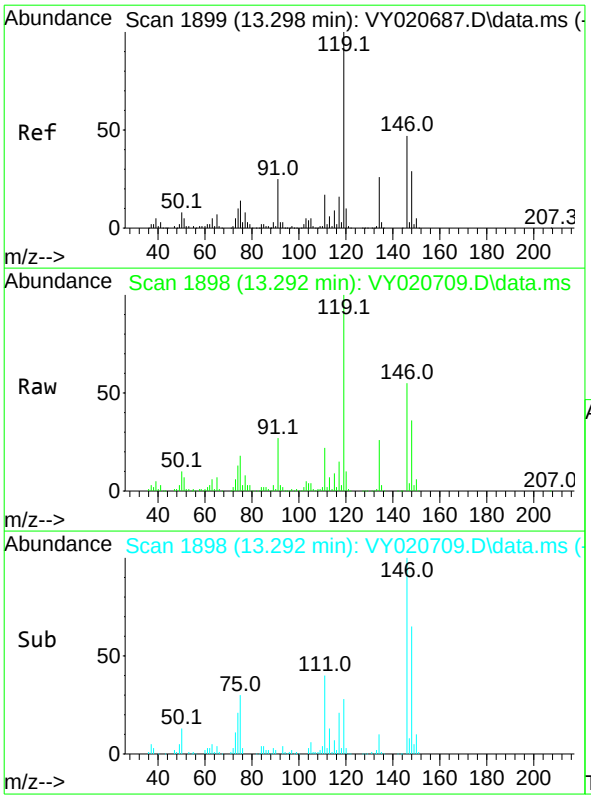



#86
p-Isopropyltoluene
Concen: 50.891 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:119 Resp: 198854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.4 | 40.2 |
| 91 | 25.8 | 12.9 | 38.6 |

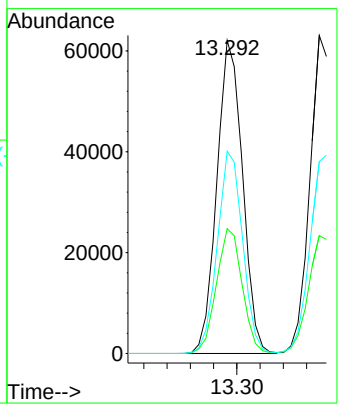





#87
1,3-Dichlorobenzene
Concen: 50.631 ug/l
RT: 13.292 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:146 Resp: 95245

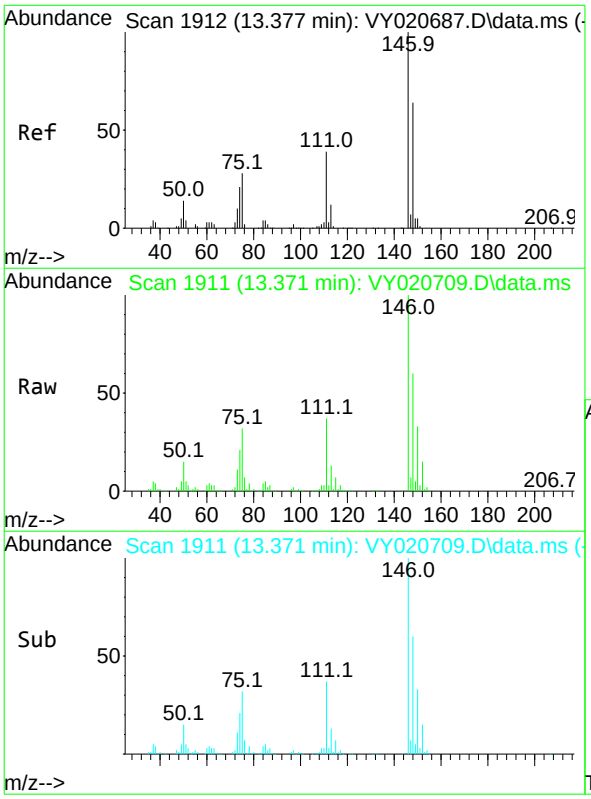
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.0 | 19.3 | 57.8 |
| 148 | 63.9 | 31.1 | 93.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

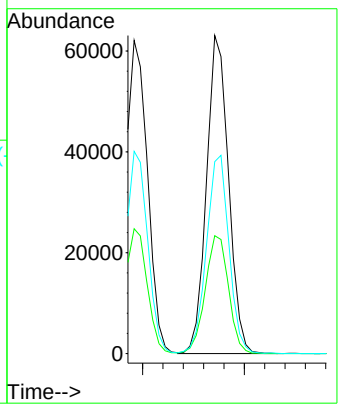
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

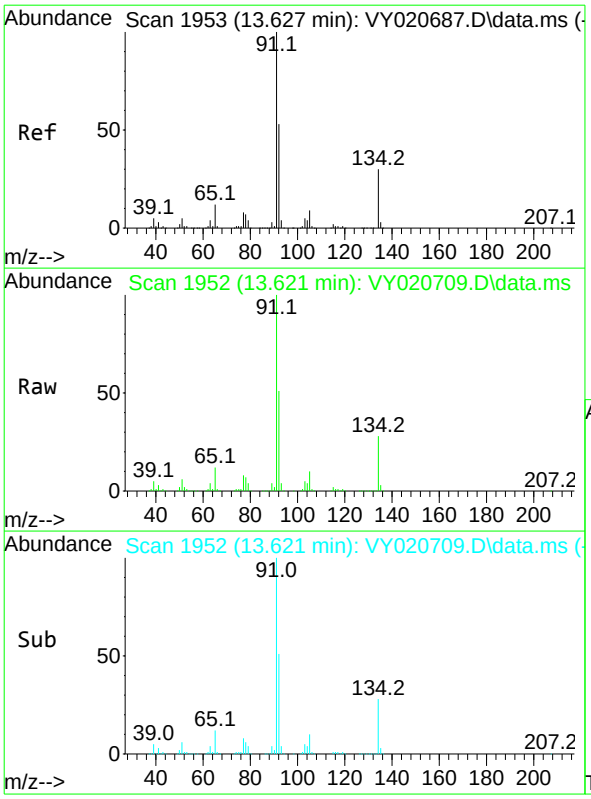



#88
1,4-Dichlorobenzene
Concen: 50.694 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:146 Resp: 94865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.7 | 59.0 |
| 148 | 63.8 | 32.8 | 98.3 |

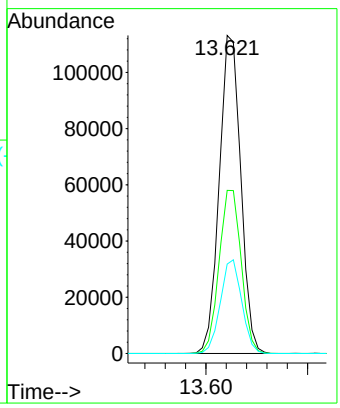





#89
n-Butylbenzene
Concen: 51.010 ug/l
RT: 13.621 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 91 Resp: 166380

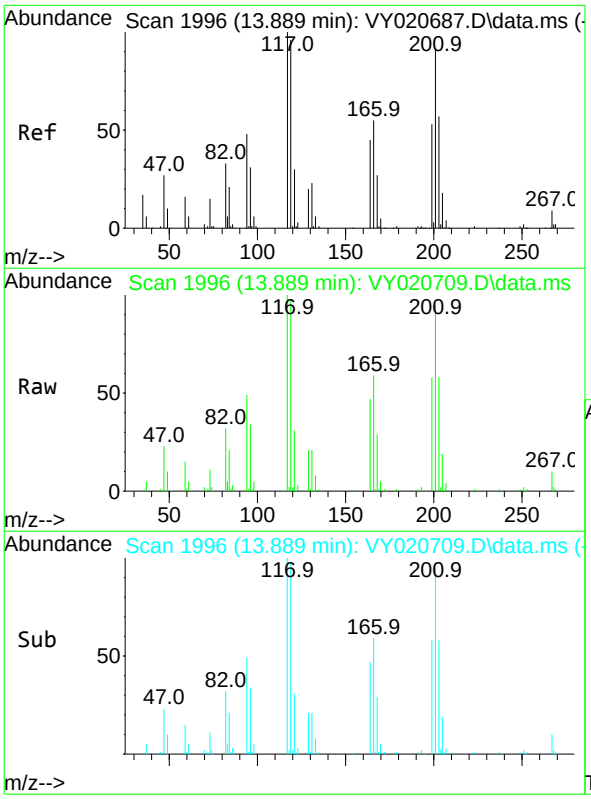
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.7 | 26.1 | 78.2 |
| 134 | 29.3 | 14.8 | 44.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

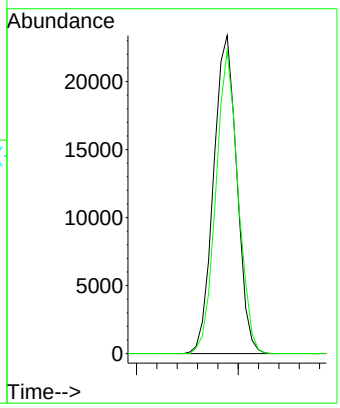
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

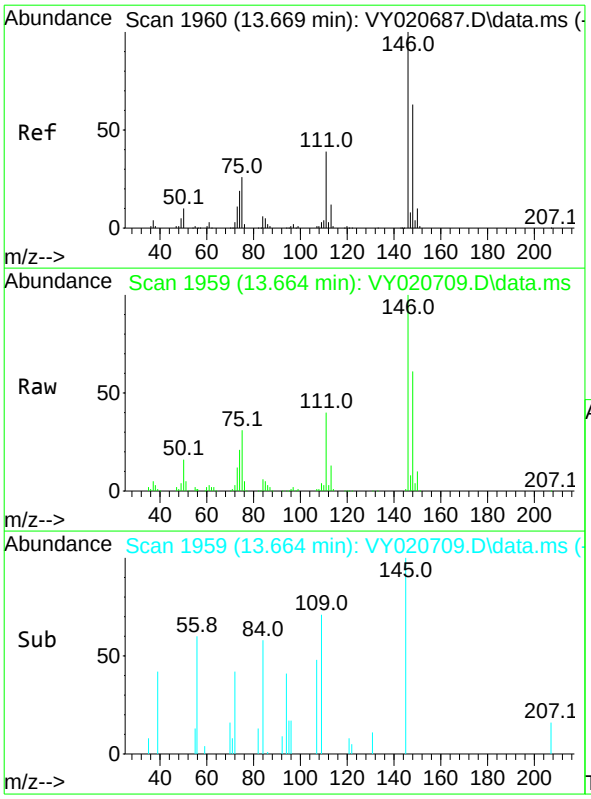



#90
Hexachloroethane
Concen: 50.005 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:117 Resp: 37154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 90.9 | 44.9 | 134.7 |

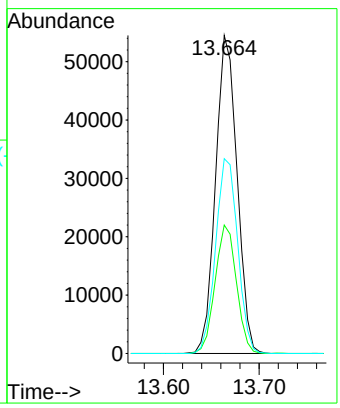





#91
1,2-Dichlorobenzene
Concen: 52.769 ug/l
RT: 13.664 min Scan# 19
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:146 Resp: 85113

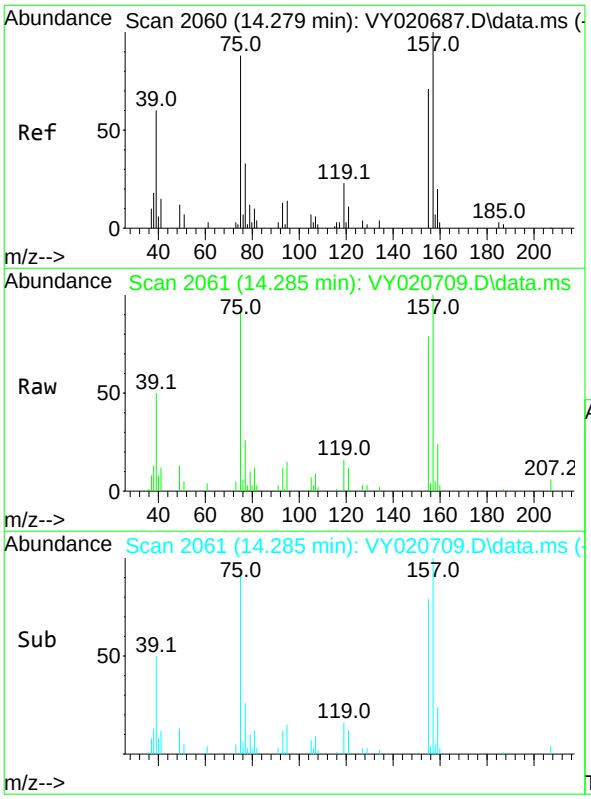
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.1 | 20.3 | 60.8 |
| 148 | 63.0 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

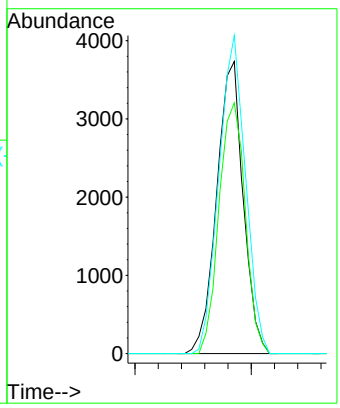
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

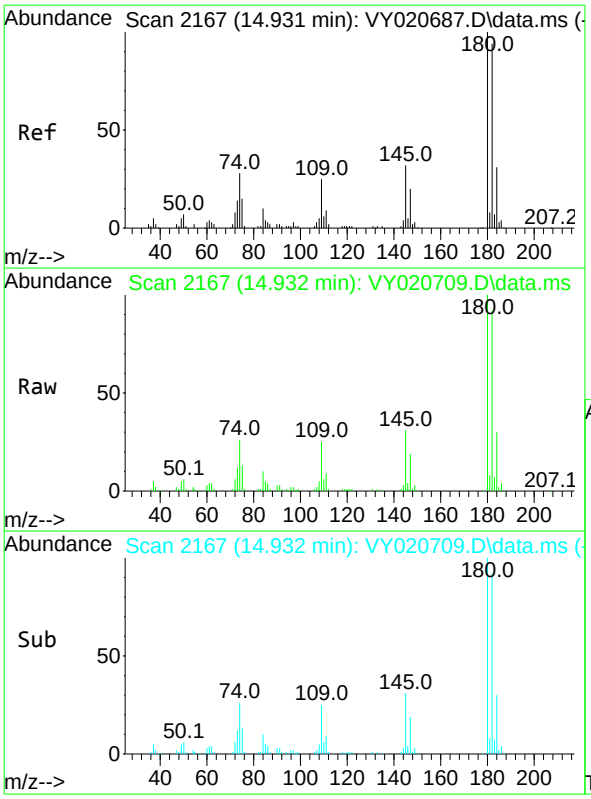



#92
1,2-Dibromo-3-Chloropropane
Concen: 56.916 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 75 Resp: 5917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 84.8 | 43.4 | 130.2 |
| 157 | 109.2 | 58.6 | 175.7 |

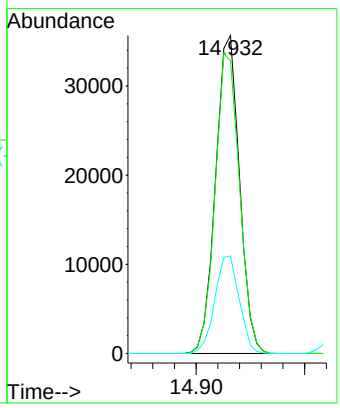





#93
1,2,4-Trichlorobenzene
Concen: 53.117 ug/l
RT: 14.932 min Scan# 21
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:180 Resp: 54457

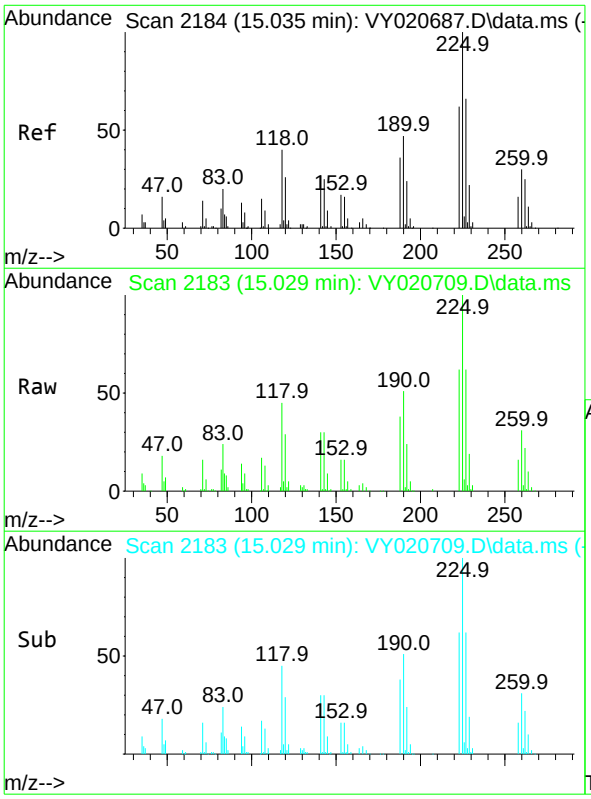
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.3 | 47.9 | 143.7 |
| 145 | 31.3 | 15.6 | 46.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

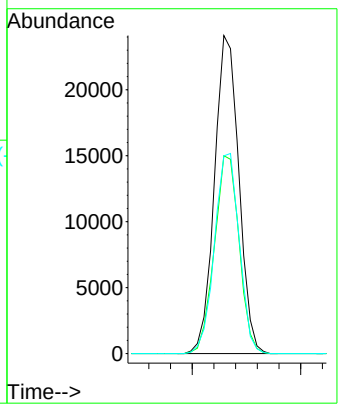
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

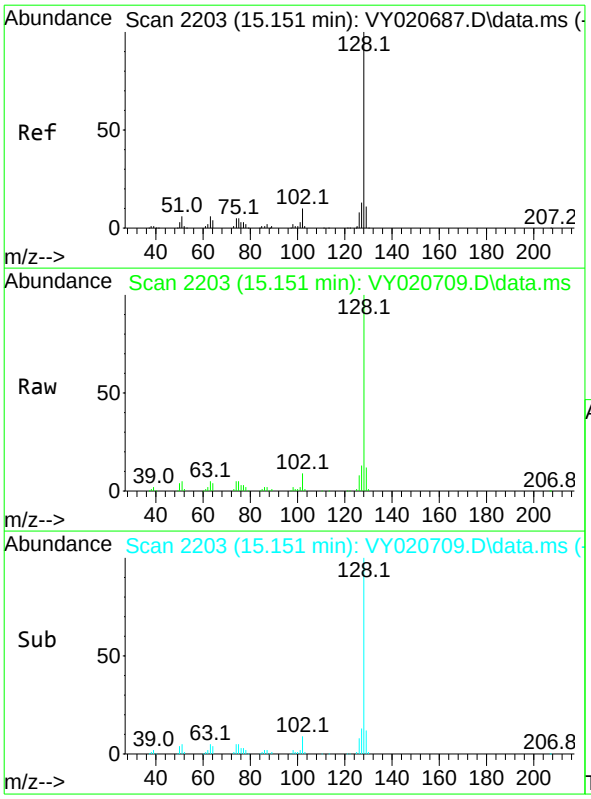



#94
Hexachlorobutadiene
Concen: 50.369 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:225 Resp: 37636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.1 | 31.3 | 93.8 |
| 227 | 63.9 | 32.1 | 96.5 |

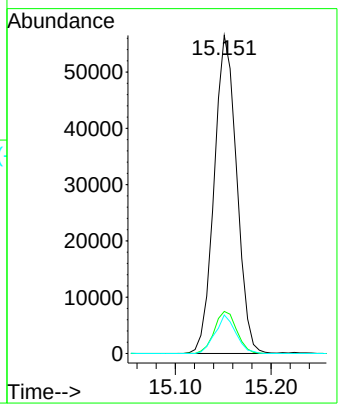





#95
Naphthalene
Concen: 56.177 ug/l
RT: 15.151 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:128 Resp: 92244

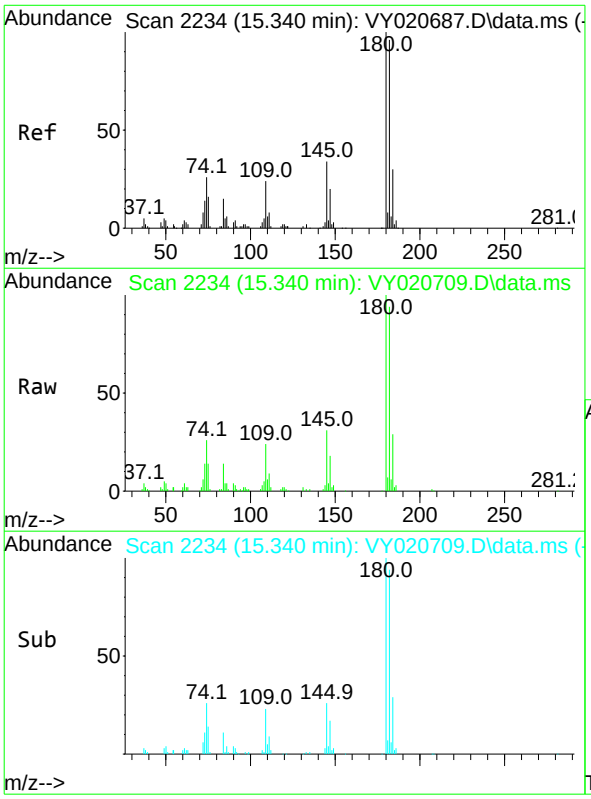
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.7 | 16.1 |
| 129 | 11.1 | 8.6 | 12.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

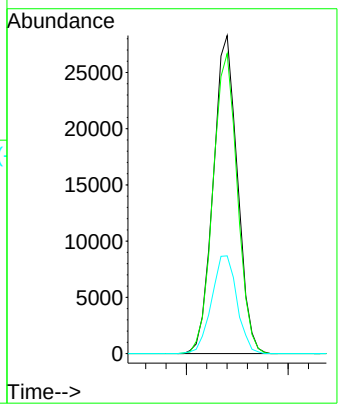
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024




#96
1,2,3-Trichlorobenzene
Concen: 54.682 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:180 Resp: 46678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 47.4 | 142.2 |
| 145 | 32.3 | 16.7 | 50.1 |



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020710.D
Acq On : 26 Dec 2024 11:01
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 26 16:06:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 114988 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.621 | 114 | 158039 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 137996 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 68495 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 149540 | 158.772 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 317.540%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 134770 | 154.819 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 309.640%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 518209 | 146.261 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 292.520%# | | | |
| 62) 4-Bromofluorobenzene | 12.413 | 95 | 176701 | 152.741 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 305.480%# | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 129832 | 143.447 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 50886 | 150.751 | ug/l | 94 |
| 4) Vinyl Chloride | 2.214 | 62 | 61386 | 146.779 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 46855 | 148.385 | ug/l | 93 |
| 6) Chloroethane | 2.744 | 64 | 38539 | 153.610 | ug/l | 92 |
| 7) Trichlorofluoromethane | 3.067 | 101 | 237769 | 147.839 | ug/l | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 58291 | 152.312 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.829 | 101 | 129702 | 146.898 | ug/l | 98 |
| 10) Methyl Iodide | 4.012 | 142 | 153490 | 158.974 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.878 | 59 | 42318 | 761.366 | ug/l # | 78 |
| 12) 1,1-Dichloroethene | 3.805 | 96 | 117146 | 149.063 | ug/l | 100 |
| 13) Acrolein | 3.665 | 56 | 9943 | 505.005 | ug/l | 97 |
| 14) Allyl chloride | 4.396 | 41 | 139044 | 151.192 | ug/l | 97 |
| 15) Acrylonitrile | 5.073 | 53 | 112334 | 759.818 | ug/l | 99 |
| 16) Acetone | 3.878 | 43 | 82039 | 686.613 | ug/l | 99 |
| 17) Carbon Disulfide | 4.122 | 76 | 299085 | 155.142 | ug/l | 99 |
| 18) Methyl Acetate | 4.396 | 43 | 49673 | 153.605 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.134 | 73 | 325123 | 148.428 | ug/l | 100 |
| 20) Methylene Chloride | 4.634 | 84 | 113659 | 146.259 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 5.134 | 96 | 126864 | 149.805 | ug/l | 97 |
| 22) Diisopropyl ether | 6.030 | 45 | 270897 | 144.902 | ug/l | 98 |
| 23) Vinyl Acetate | 5.975 | 43 | 842460 | 754.449 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 203786 | 145.390 | ug/l | 98 |
| 25) 2-Butanone | 6.908 | 43 | 121750 | 754.322 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 245949 | 143.362 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.902 | 96 | 149023 | 146.943 | ug/l | 98 |
| 28) Bromochloromethane | 7.256 | 49 | 61393 | 165.629 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.274 | 42 | 75734 | 764.431 | ug/l | 97 |
| 30) Chloroform | 7.433 | 83 | 255843 | 141.892 | ug/l | 94 |
| 31) Cyclohexane | 7.713 | 56 | 159686 | 131.985 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 281529 | 145.661 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 170324 | 148.123 | ug/l | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 58258 | 153.750 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 281225 | 148.522 | ug/l | 96 |
| 39) Methylcyclohexane | 9.115 | 83 | 222062 | 150.669 | ug/l | 96 |
| 40) Benzene | 8.091 | 78 | 493419 | 148.061 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020710.D
Acq On : 26 Dec 2024 11:01
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 26 16:06:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.225 | 41 | 30977 | 161.841 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.170 | 62 | 162177 | 151.768 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 125433 | 155.741 | ug/l | | 98 |
| 44) Trichloroethene | 8.871 | 130 | 146621 | 147.303 | ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 96524 | 143.087 | ug/l | | 95 |
| 46) Dibromomethane | 9.237 | 93 | 70177 | 150.351 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.432 | 83 | 197163 | 148.994 | ug/l | | 93 |
| 48) Methyl methacrylate | 9.225 | 41 | 57813 | 153.712 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.237 | 88 | 14810 | 3331.078 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 10.005 | 43 | 297779 | 766.010 | ug/l | | 100 |
| 52) Toluene | 10.176 | 92 | 342599 | 149.994 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.401 | 75 | 180957 | 155.696 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 194591 | 152.747 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.578 | 97 | 89814 | 150.745 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.444 | 69 | 125990 | 160.965 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 147770 | 152.813 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 227376 | 833.052 | ug/l | | 99 |
| 59) 2-Hexanone | 10.767 | 43 | 205596 | 801.023 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.920 | 129 | 146356 | 152.023 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.023 | 107 | 87182 | 155.511 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.651 | 164 | 139334 | 147.787 | ug/l | | 97 |
| 65) Chlorobenzene | 11.450 | 112 | 390317 | 144.451 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.523 | 131 | 151401 | 144.626 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.523 | 91 | 696321 | 147.444 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 532697 | 295.699 | ug/l | | 100 |
| 69) o-Xylene | 11.962 | 106 | 249576 | 145.003 | ug/l | | 98 |
| 70) Styrene | 11.974 | 104 | 422920 | 146.372 | ug/l | | 100 |
| 71) Bromoform | 12.139 | 173 | 90423 | 150.242 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.261 | 105 | 699104 | 147.320 | ug/l | | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 110622 | 164.040 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 92629 | 152.263 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 74431m | 137.761 | ug/l | | |
| 77) Bromobenzene | 12.541 | 156 | 163665 | 149.824 | ug/l | | 98 |
| 78) n-propylbenzene | 12.602 | 91 | 775459 | 145.797 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 447942 | 147.735 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 577812 | 146.144 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 33964 | 154.104 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.785 | 91 | 460319 | 146.900 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 540775 | 146.461 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.047 | 105 | 570579 | 148.302 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.181 | 105 | 727401 | 146.177 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.297 | 119 | 651978 | 147.017 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.297 | 146 | 314188 | 147.160 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 308690 | 145.345 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 551311 | 148.927 | ug/l | | 100 |
| 90) Hexachloroethane | 13.889 | 117 | 125073 | 148.318 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 272976 | 149.118 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 18575 | 157.429 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.931 | 180 | 194628 | 167.268 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 130414 | 153.785 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 329555 | 176.838 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 163465 | 168.727 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020710.D
Acq On : 26 Dec 2024 11:01
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:06:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020710.D
Acq On : 26 Dec 2024 11:01
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Dec 26 16:06:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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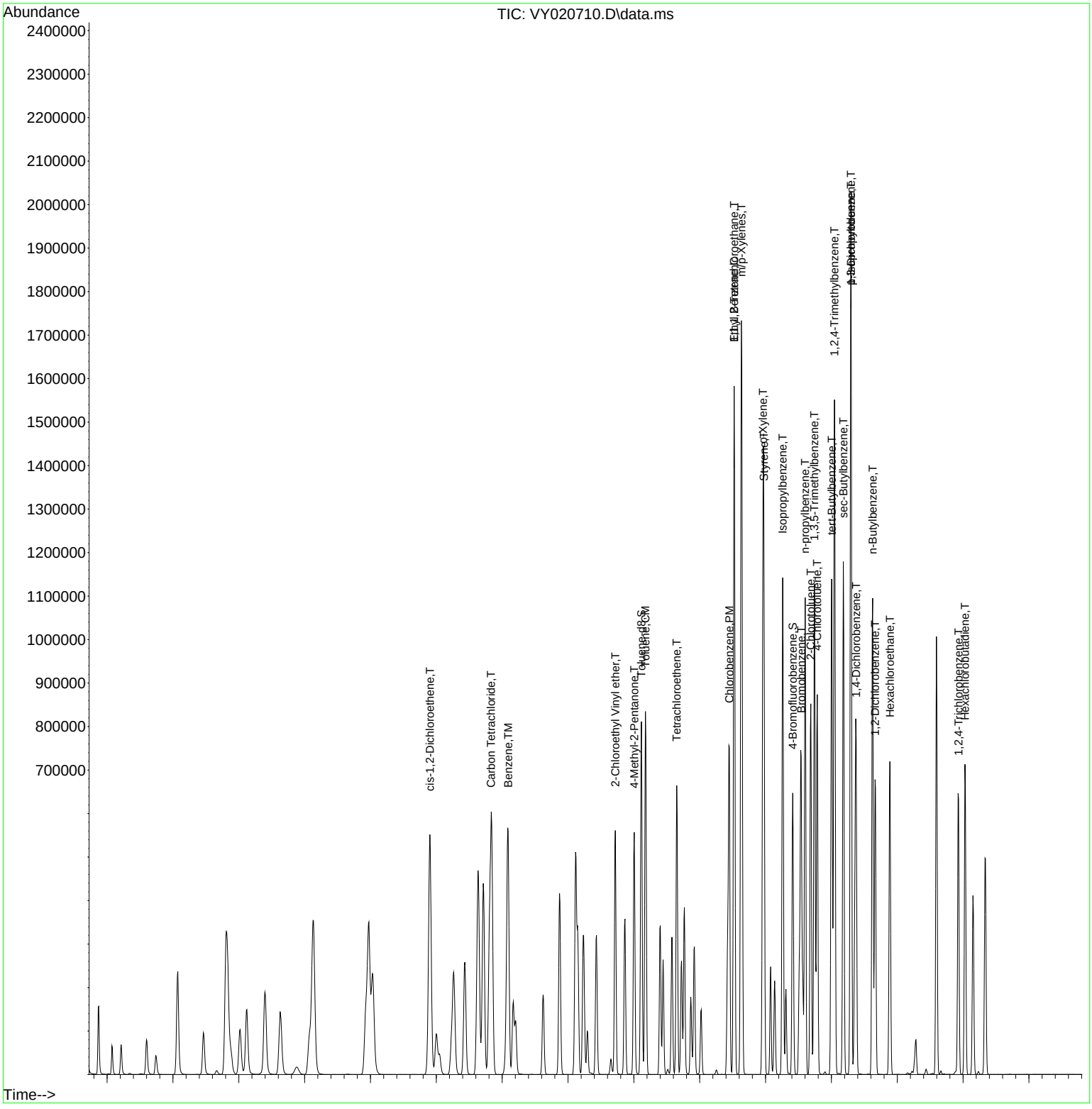
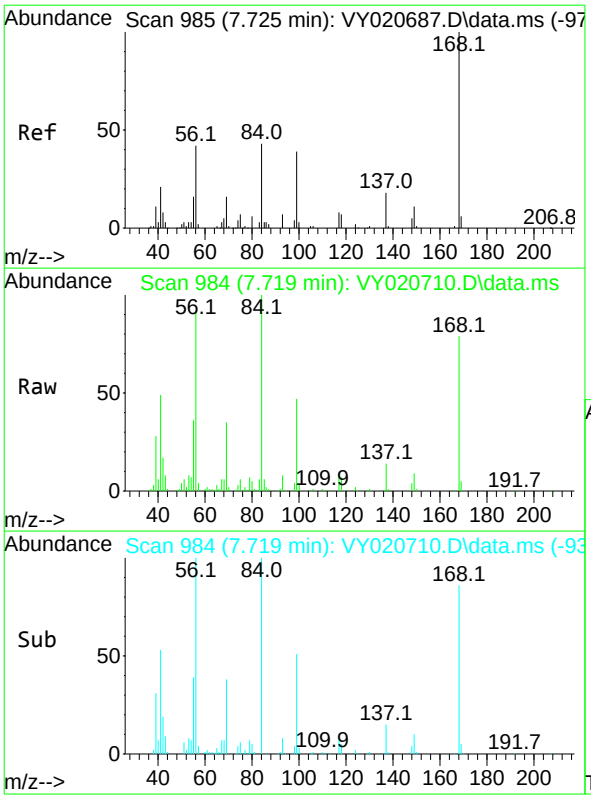
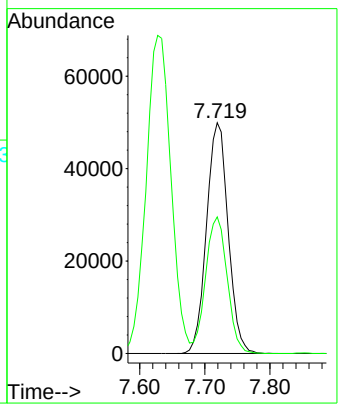





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:168 Resp: 114988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.2 | 43.8 | 65.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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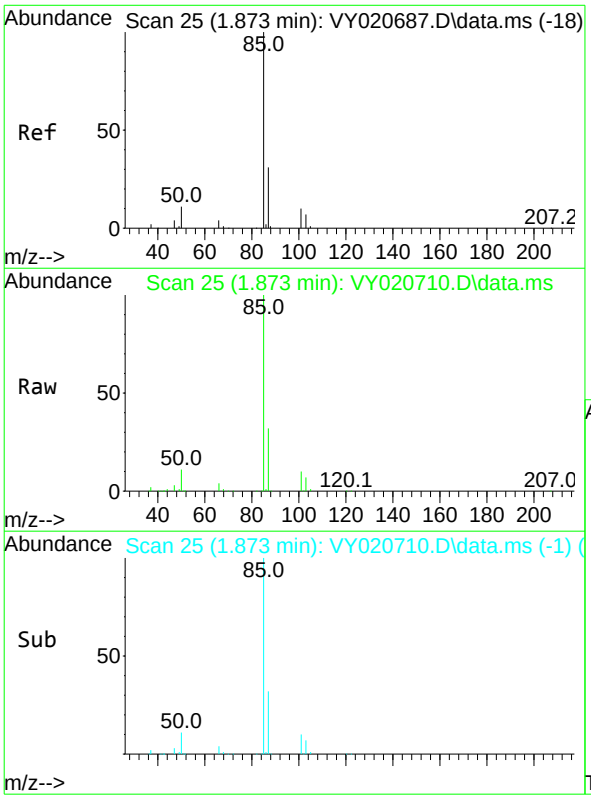
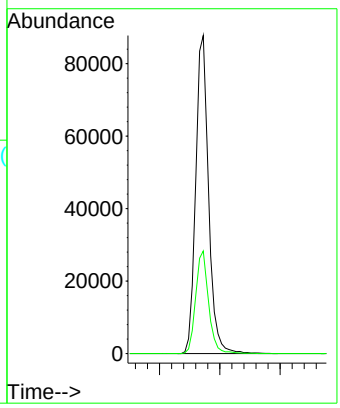
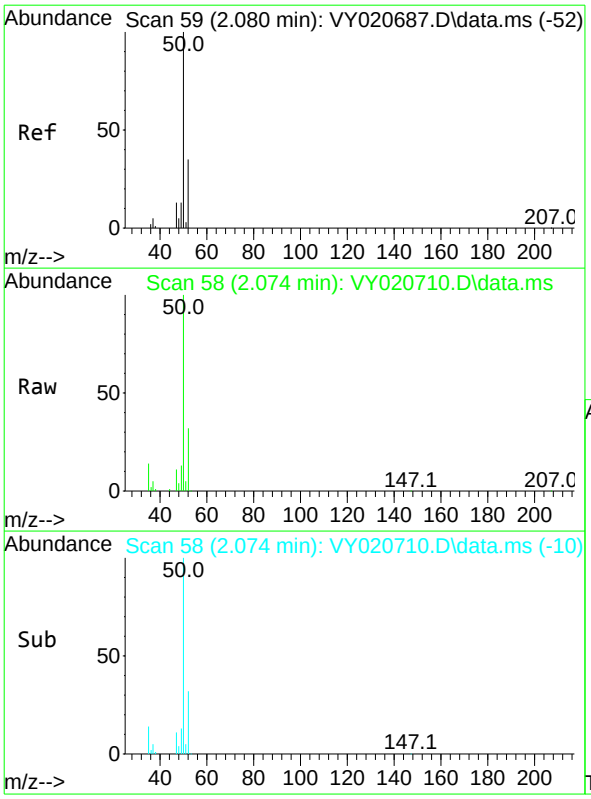



#2
Dichlorodifluoromethane
Concen: 143.447 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 85 Resp: 129832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 15.4 | 46.4 |

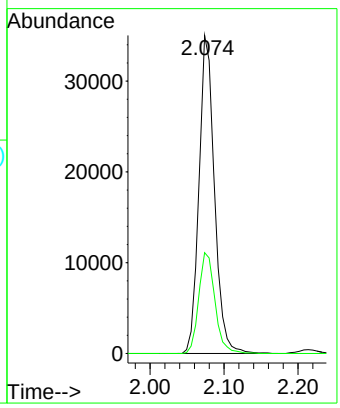





#3
Chloromethane
Concen: 150.751 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 50 Resp: 50886

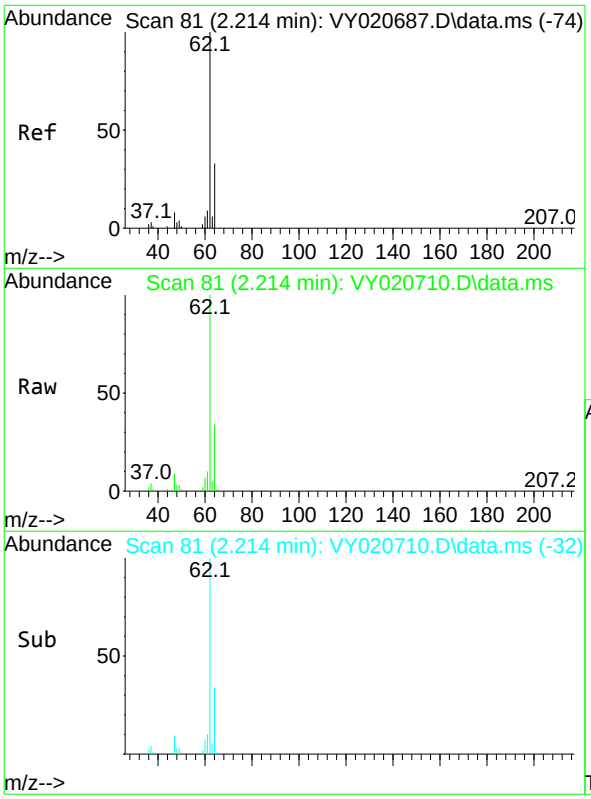
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.7 | 28.2 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

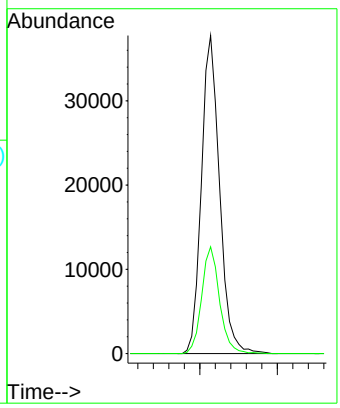
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

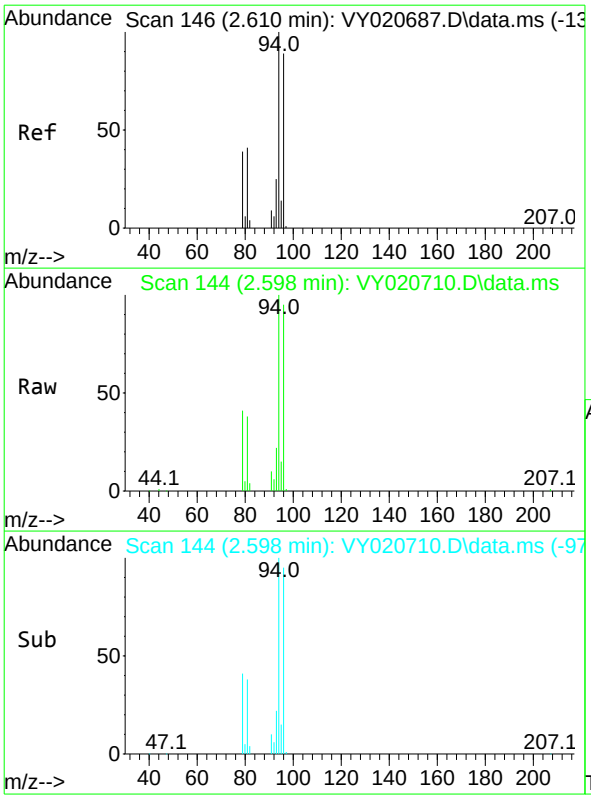



#4
Vinyl Chloride
Concen: 146.779 ug/l
RT: 2.214 min Scan# 81
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 62 Resp: 61386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.6 | 26.6 | 40.0 |

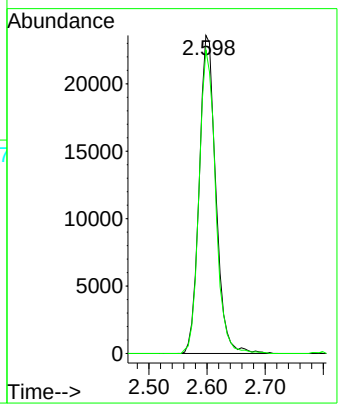





#5
Bromomethane
Concen: 148.385 ug/l
RT: 2.598 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 94 Resp: 46855

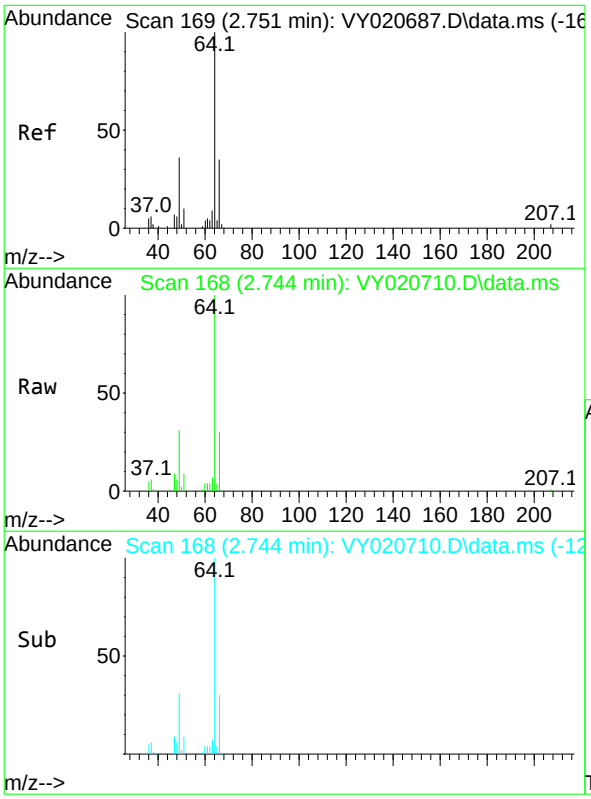
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.4 | 71.0 | 106.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

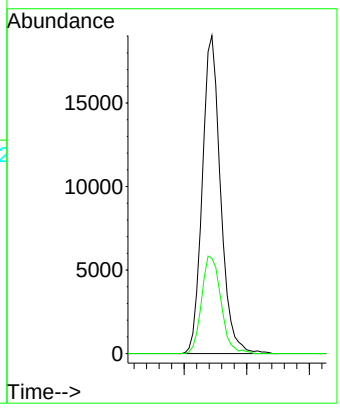
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

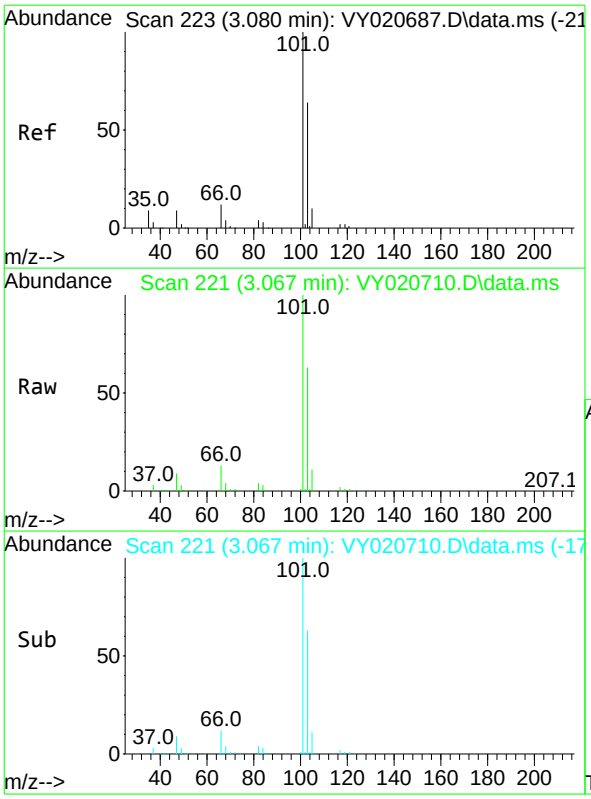



#6
Chloroethane
Concen: 153.610 ug/l
RT: 2.744 min Scan# 168
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 64 Resp: 38539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.0 | 27.8 | 41.8 |

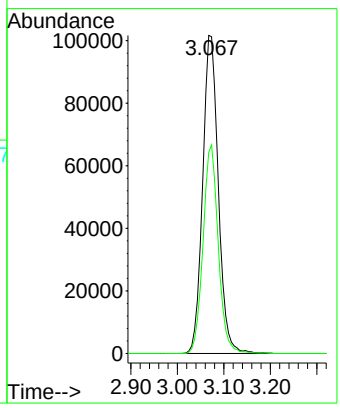





#7
Trichlorofluoromethane
Concen: 147.839 ug/l
RT: 3.067 min Scan# 22
Delta R.T. -0.013 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:101 Resp: 237769

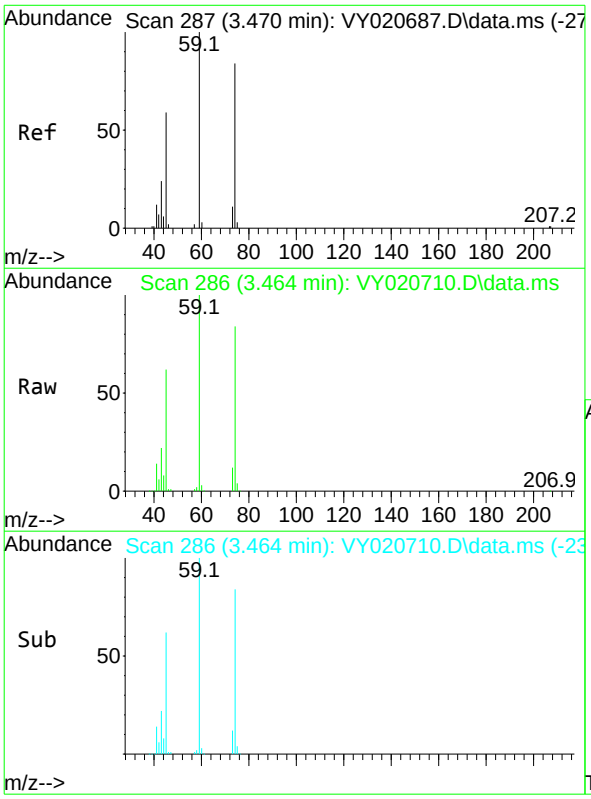
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 51.4 | 77.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

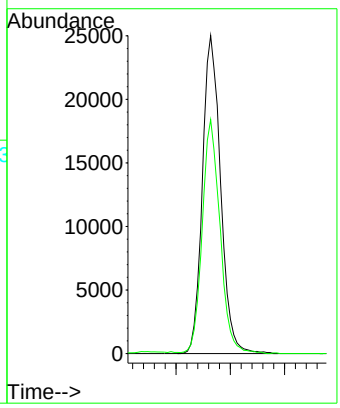
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

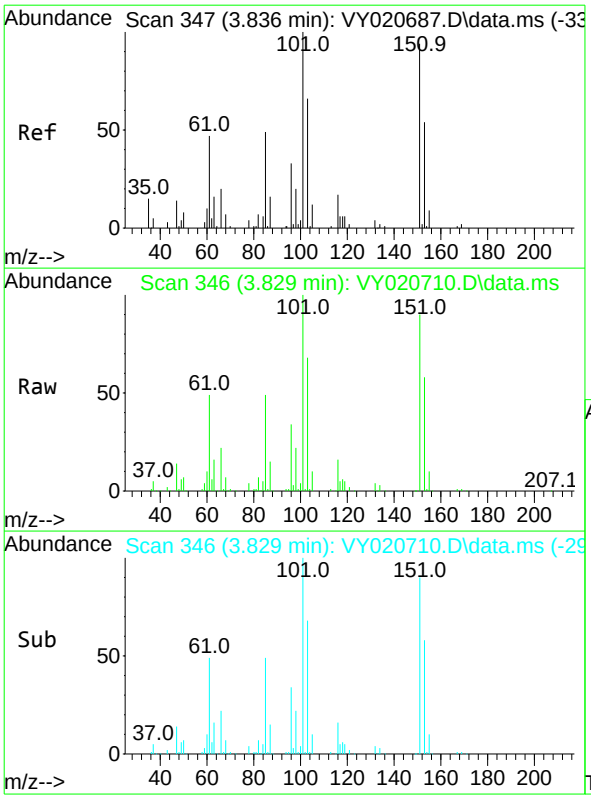



#8
Diethyl Ether
Concen: 152.312 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 74 Resp: 58291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 72.1 | 35.8 | 107.4 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 146.898 ug/l
RT: 3.829 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 129702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.4 | 38.2 | 57.2 |
| 151 | 88.1 | 68.4 | 102.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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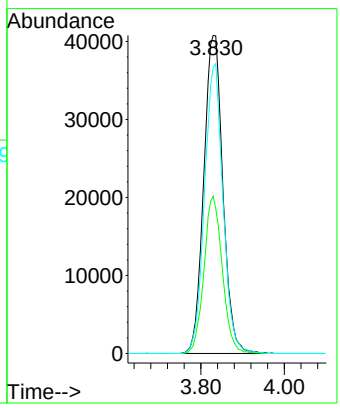
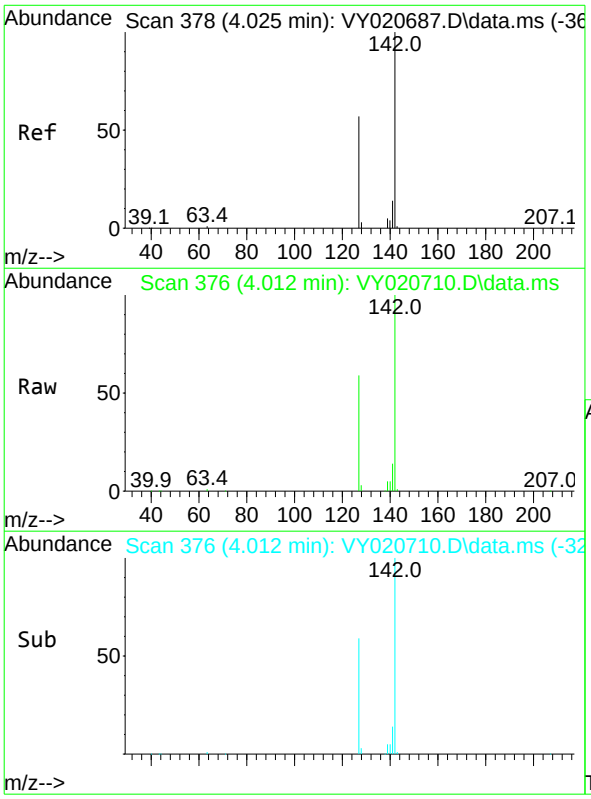
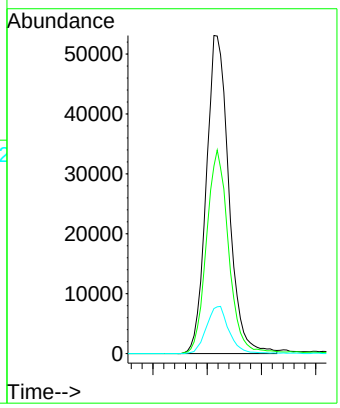


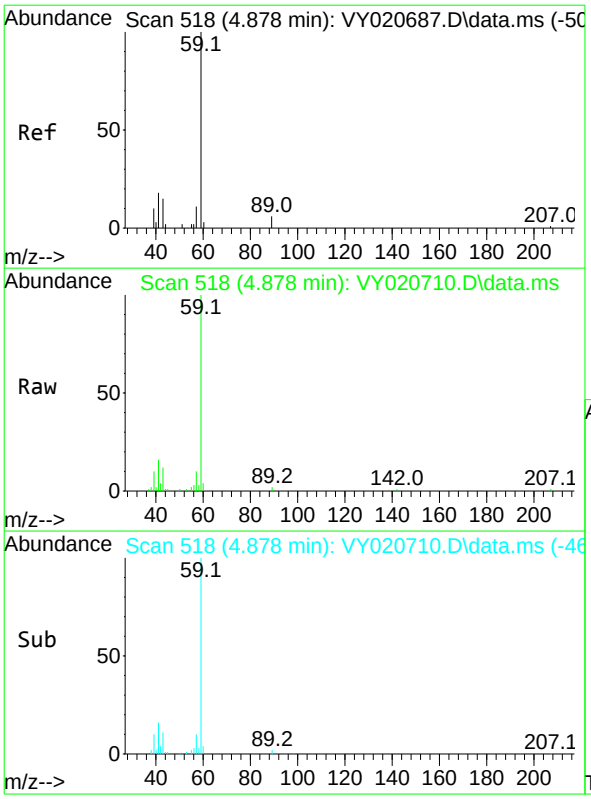




#10
Methyl Iodide
Concen: 158.974 ug/l
RT: 4.012 min Scan# 376
Delta R.T. -0.013 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:142 Resp: 153490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 62.9 | 48.8 | 73.2 |
| 141 | 14.9 | 11.9 | 17.9 |

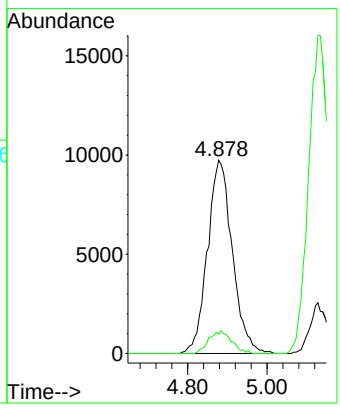





#11
Tert butyl alcohol
Concen: 761.366 ug/l
RT: 4.878 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 59 Resp: 42318

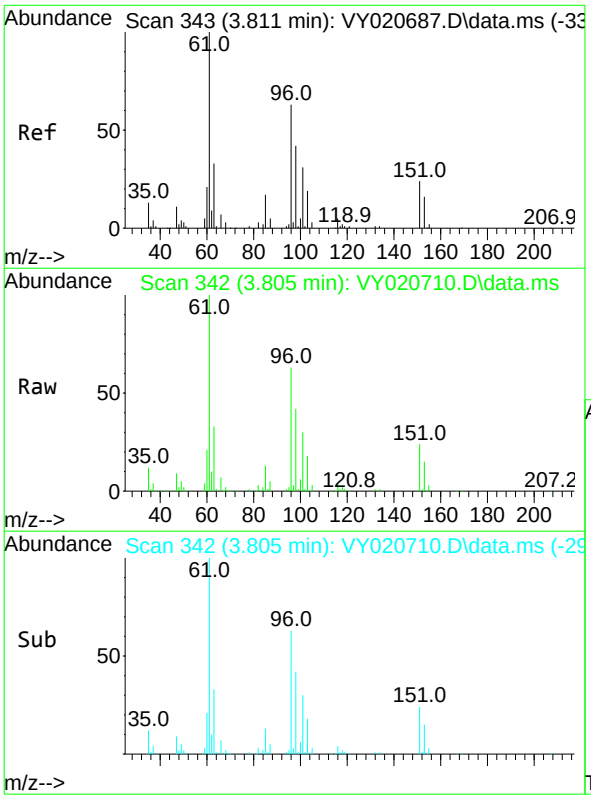
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 2.8 | 4.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

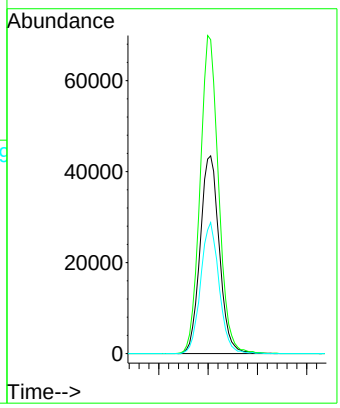
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

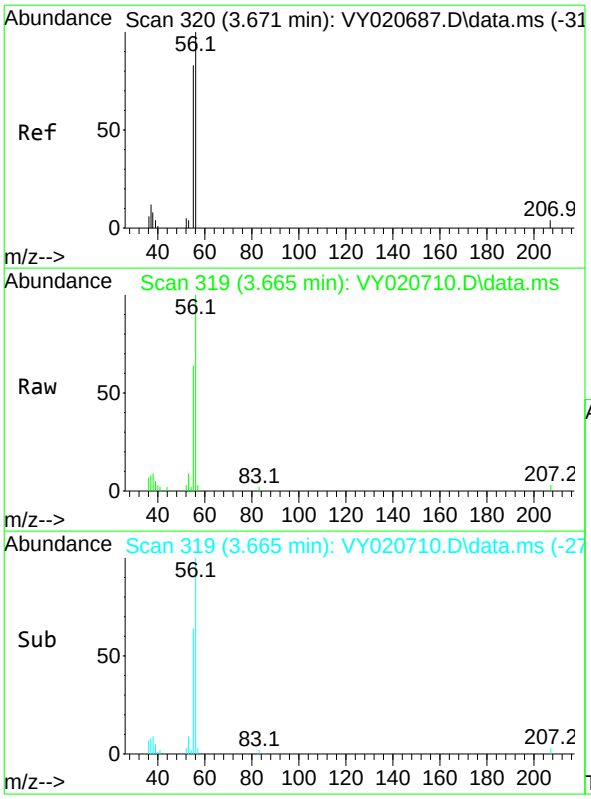



#12
1,1-Dichloroethene
Concen: 149.063 ug/l
RT: 3.805 min Scan# 342
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 96 Resp: 117146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.6 | 127.1 | 190.7 |
| 98 | 66.3 | 53.4 | 80.0 |

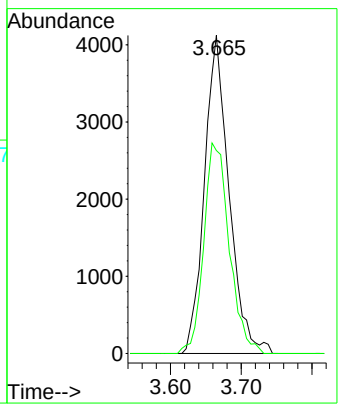





#13
Acrolein
Concen: 505.005 ug/l
RT: 3.665 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 56 Resp: 9943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.5 | 57.0 | 85.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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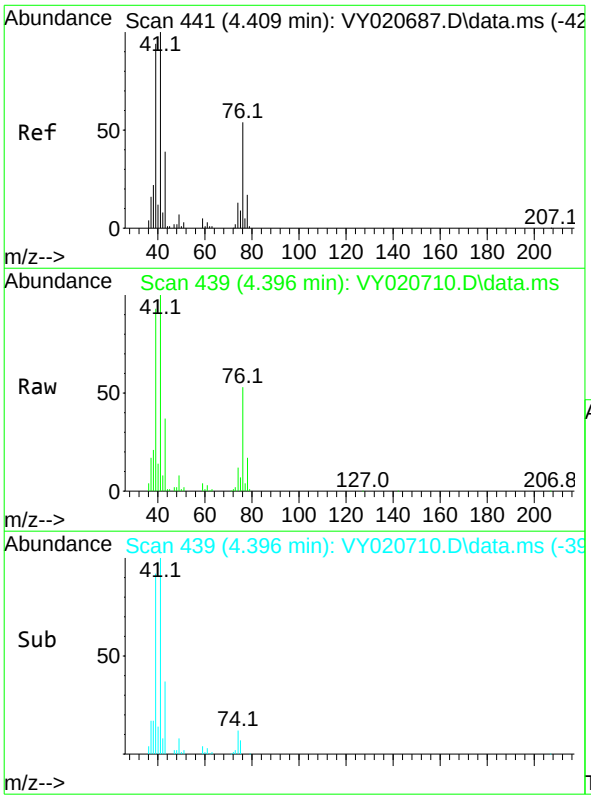
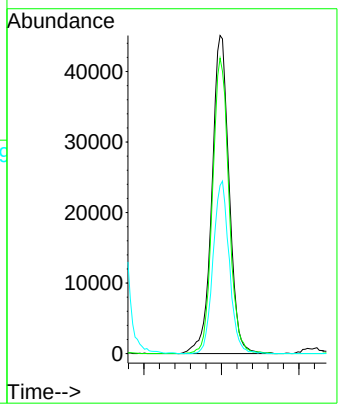
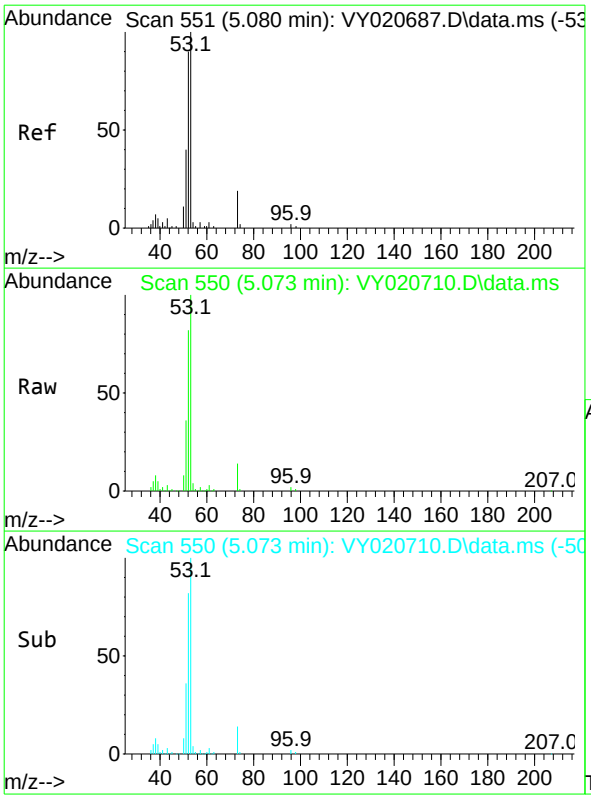



#14
Allyl chloride
Concen: 151.192 ug/l
RT: 4.396 min Scan# 439
Delta R.T. -0.013 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 41 Resp: 139044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 88.7 | 73.5 | 110.3 |
| 76 | 51.0 | 41.8 | 62.8 |

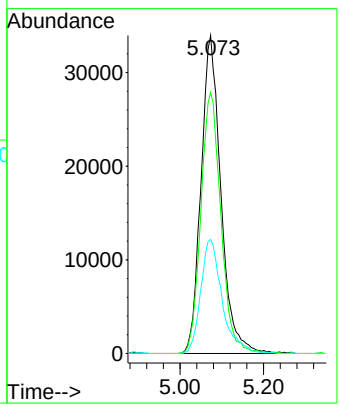





#15
Acrylonitrile
Concen: 759.818 ug/l
RT: 5.073 min Scan# 55
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 53 Resp: 112334

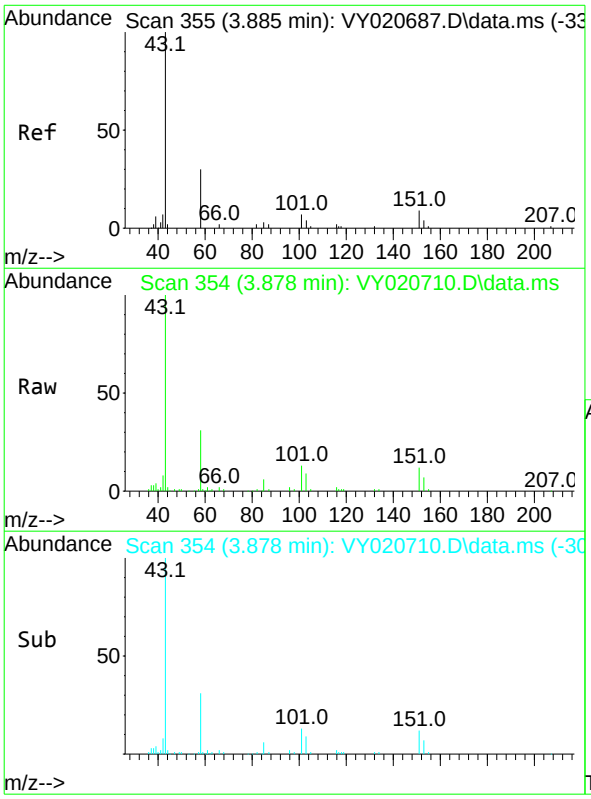
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.7 | 67.1 | 100.7 |
| 51 | 38.7 | 31.4 | 47.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

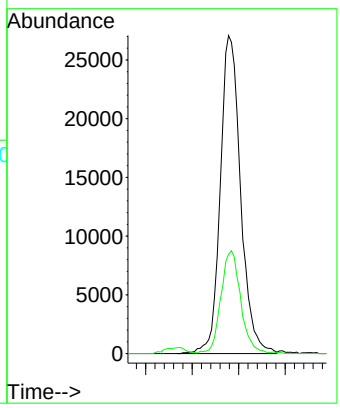
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

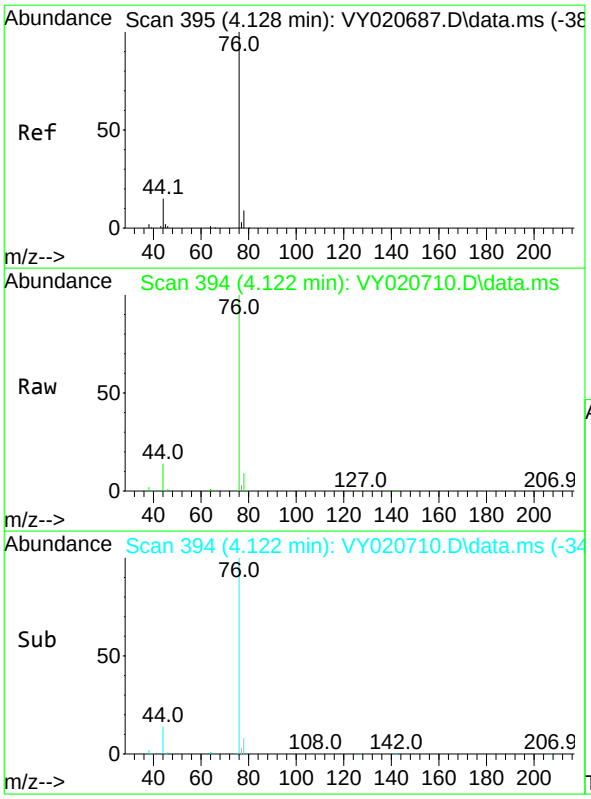



#16
Acetone
Concen: 686.613 ug/l
RT: 3.878 min Scan# 354
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 82039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.0 | 25.0 | 37.6 |

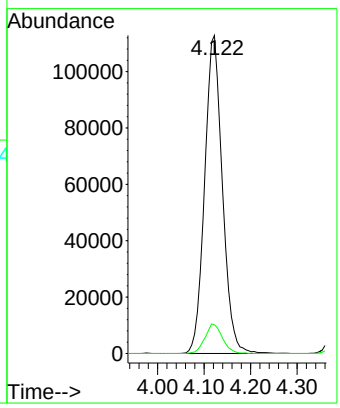





#17
Carbon Disulfide
Concen: 155.142 ug/l
RT: 4.122 min Scan# 39
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 76 Resp: 299085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 6.9 | 10.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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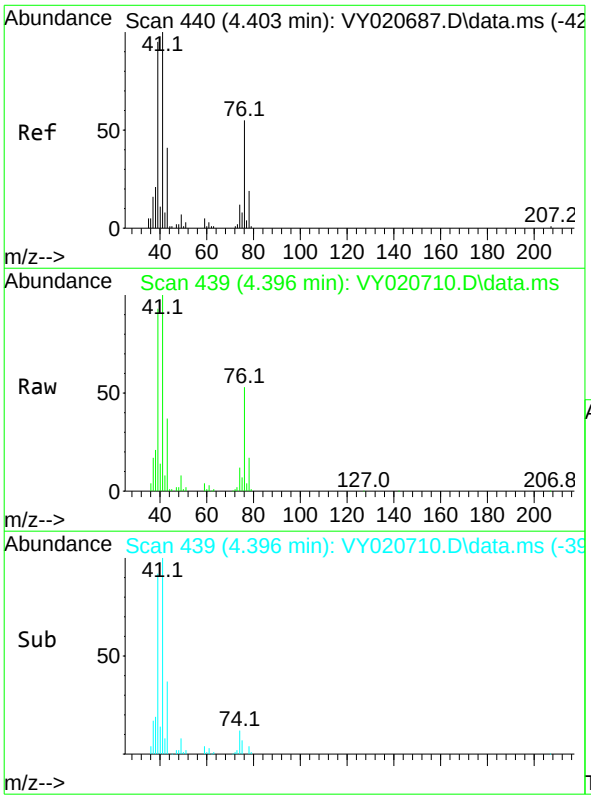
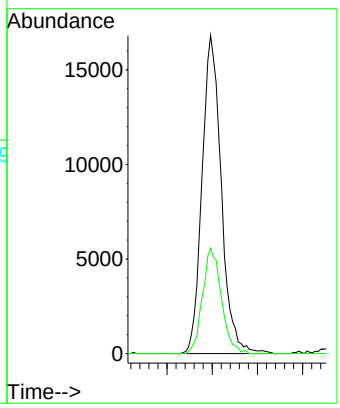
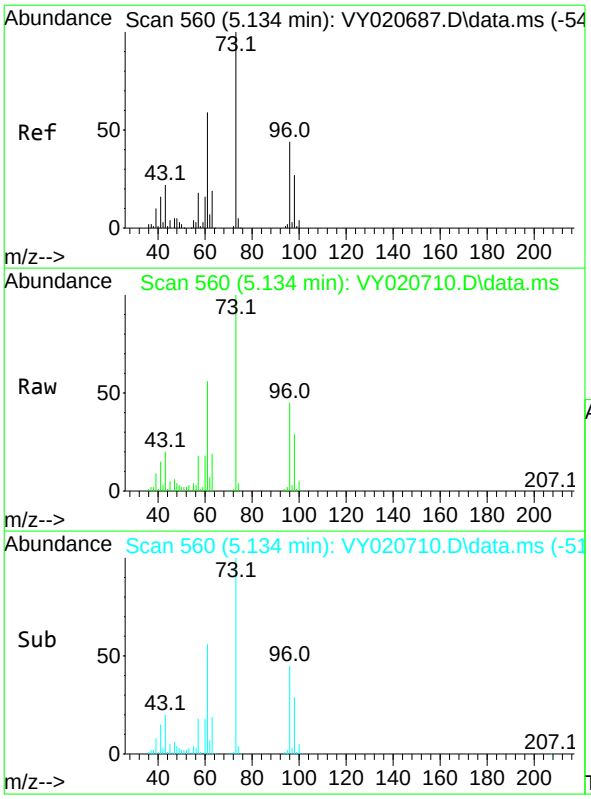



#18
Methyl Acetate
Concen: 153.605 ug/l
RT: 4.396 min Scan# 439
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 49673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 32.4 | 25.3 | 37.9 |

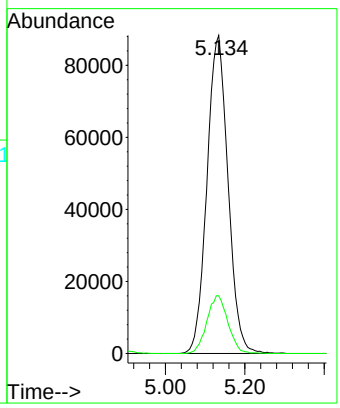





#19
Methyl tert-butyl Ether
Concen: 148.428 ug/l
RT: 5.134 min Scan# 56
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 73 Resp: 325123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 18.1 | 14.4 | 21.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

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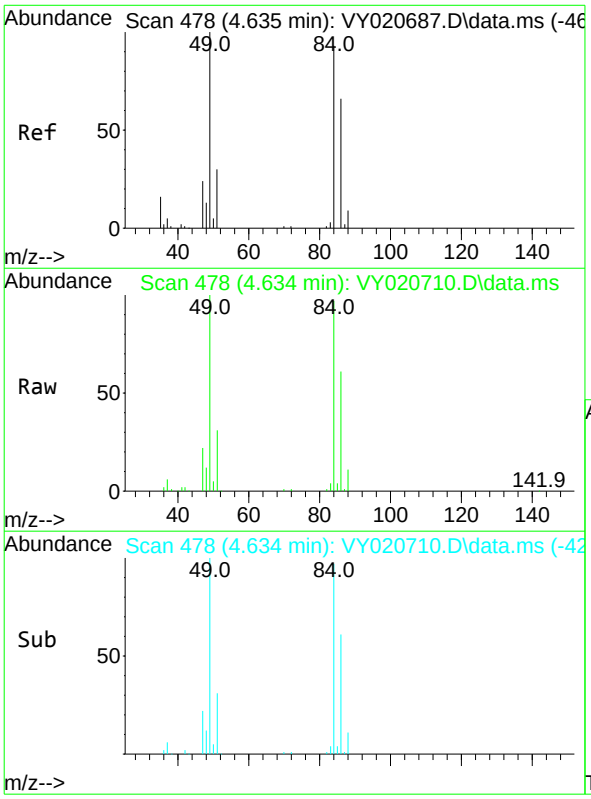
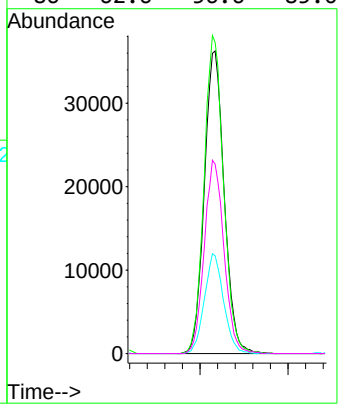
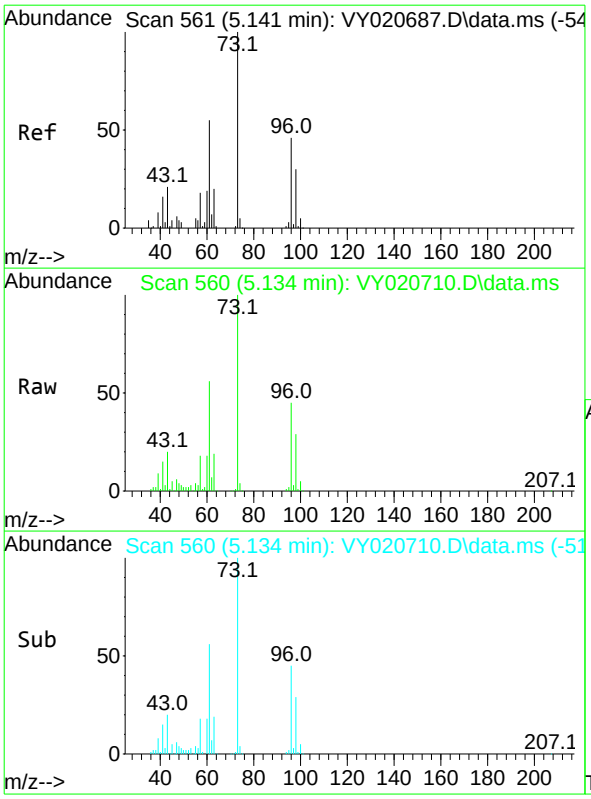



#20
Methylene Chloride
Concen: 146.259 ug/l
RT: 4.634 min Scan# 478
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 84 Resp: 113659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 102.8 | 86.4 | 129.6 |
| 51 | 32.3 | 25.5 | 38.3 |
| 86 | 62.6 | 56.6 | 85.0 |

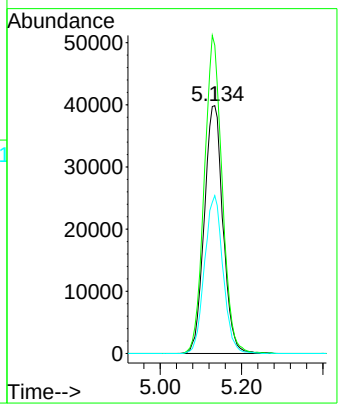





#21
trans-1,2-Dichloroethene
Concen: 149.805 ug/l
RT: 5.134 min Scan# 56
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 96 Resp: 126864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.4 | 96.1 | 144.1 |
| 98 | 63.7 | 52.7 | 79.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

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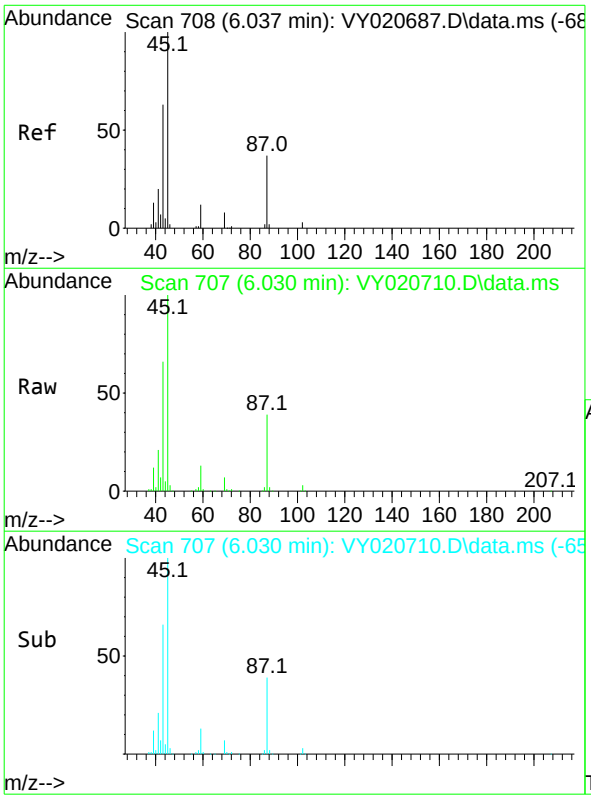
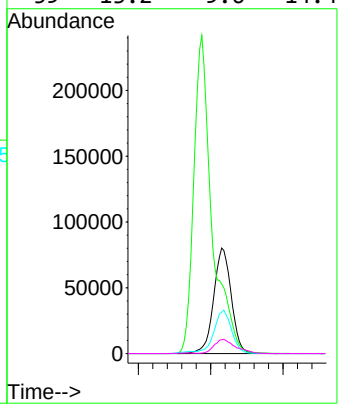
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

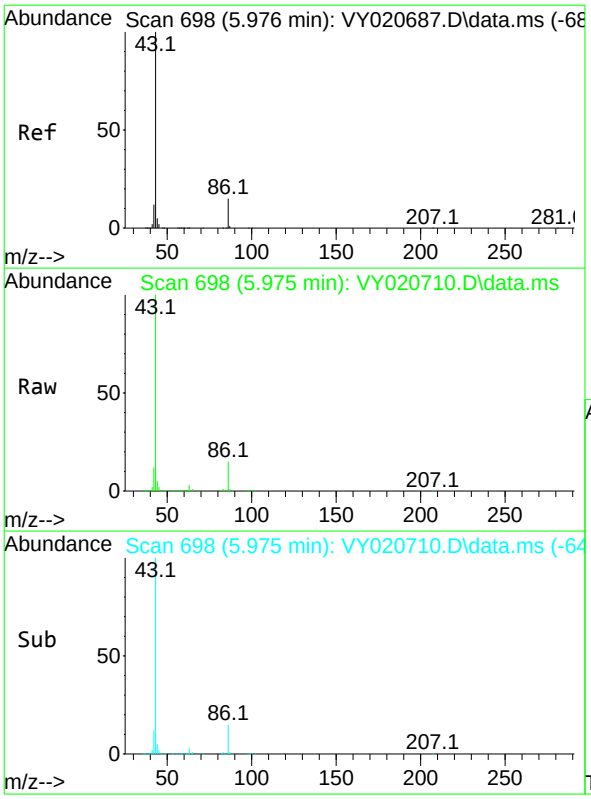



#22
Diisopropyl ether
Concen: 144.902 ug/l
RT: 6.030 min Scan# 707
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 45 Resp: 270897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.6 | 51.3 | 76.9 |
| 87 | 39.1 | 30.6 | 46.0 |
| 59 | 13.2 | 9.6 | 14.4 |

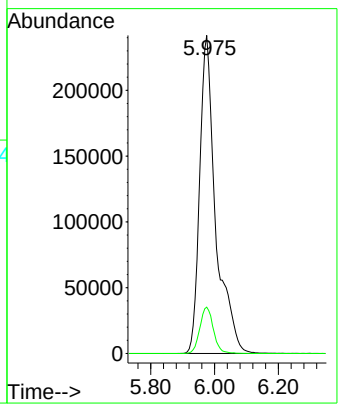





#23
Vinyl Acetate
Concen: 754.449 ug/l
RT: 5.975 min Scan# 69
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 842460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.6 | 12.0 | 18.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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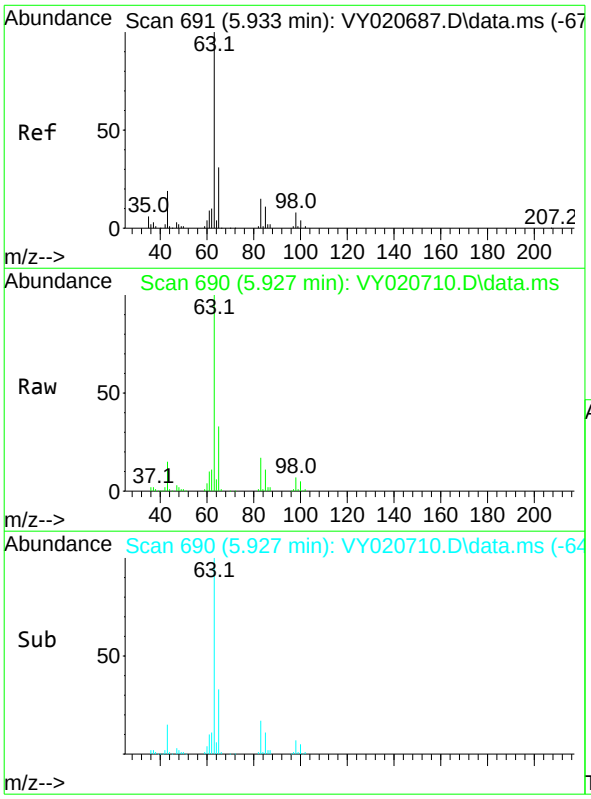
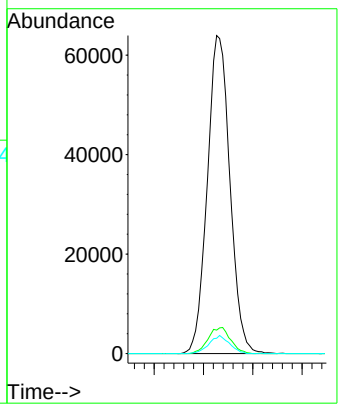
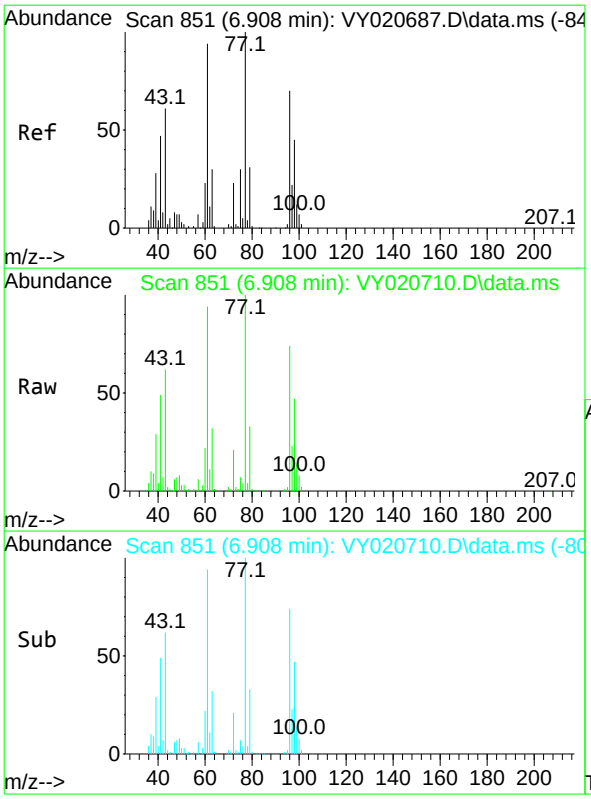



#24
1,1-Dichloroethane
Concen: 145.390 ug/l
RT: 5.927 min Scan# 690
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 63 Resp: 203786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 4.0 | 12.0 |
| 100 | 4.8 | 2.1 | 6.2 |

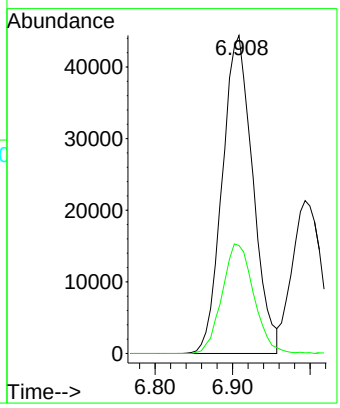





#25
2-Butanone
Concen: 754.322 ug/l
RT: 6.908 min Scan# 85
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 121750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 34.0 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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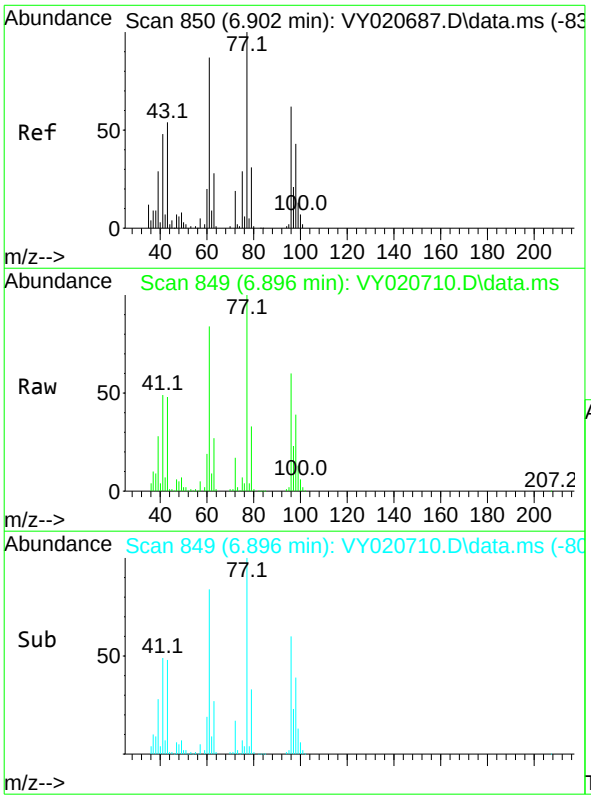
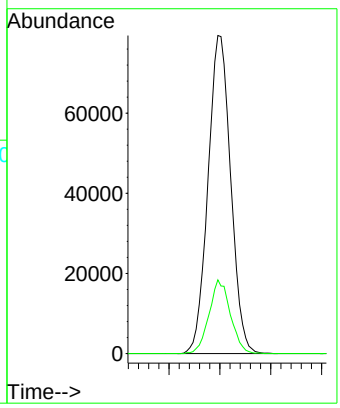
Supervised By :Semsettin Yesilyurt 12/27/2024

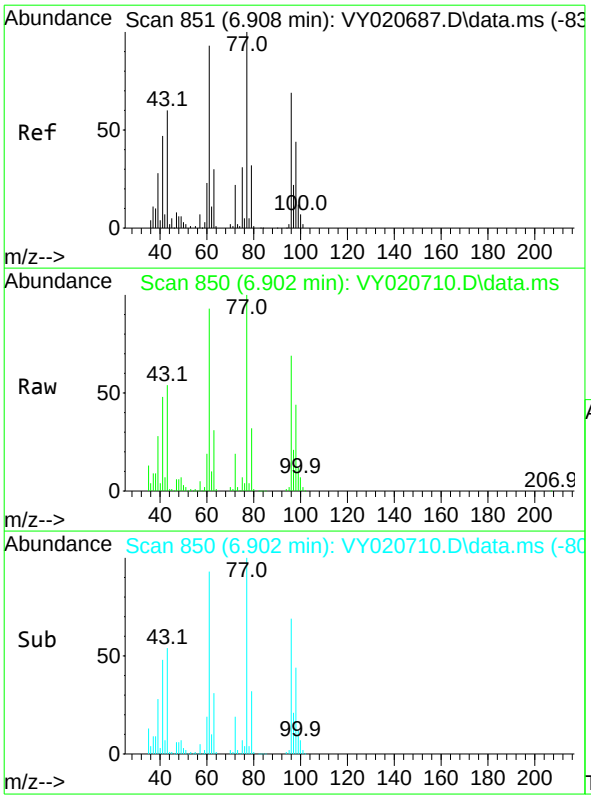



#26
2,2-Dichloropropane
Concen: 143.362 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 77 Resp: 245949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.8 | 10.8 | 32.4 |

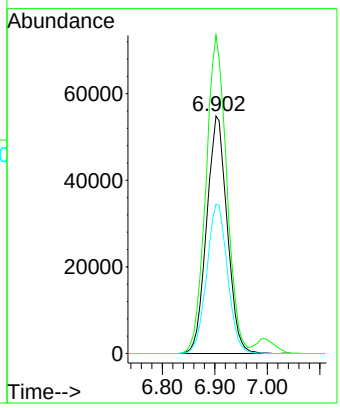





#27
cis-1,2-Dichloroethene
Concen: 146.943 ug/l
RT: 6.902 min Scan# 85
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 96 Resp: 149023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.7 | 0.0 | 277.2 |
| 98 | 63.8 | 0.0 | 131.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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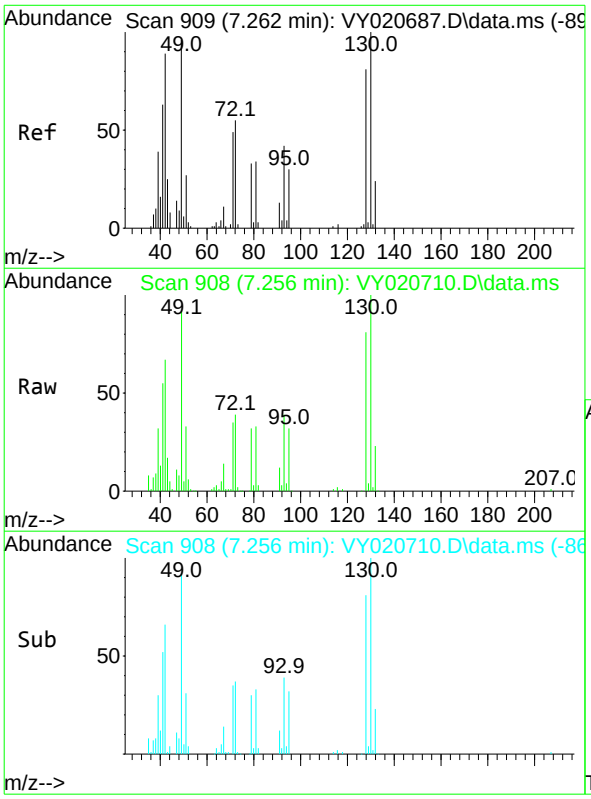
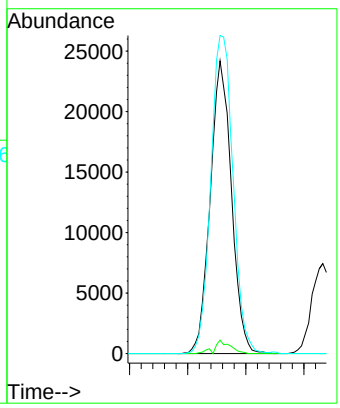
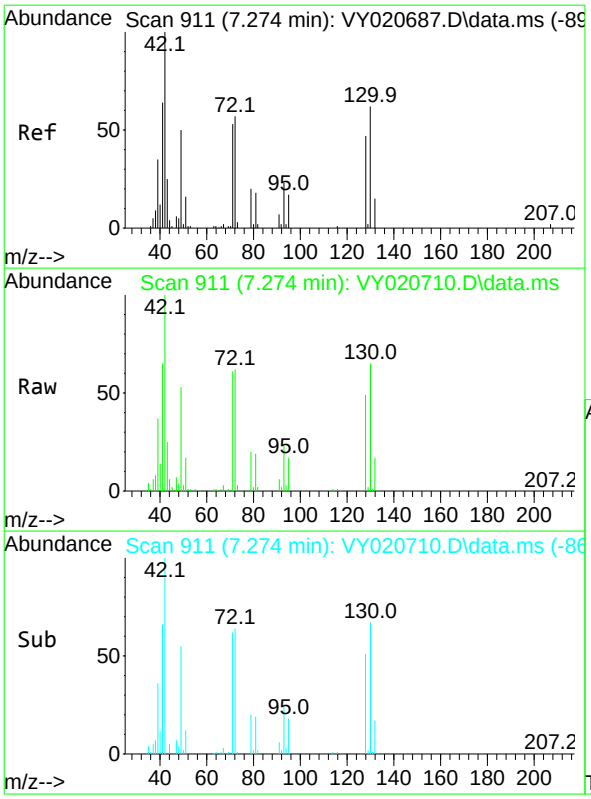



#28
Bromochloromethane
Concen: 165.629 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 49 Resp: 61393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 3.4 | 0.0 | 5.4 |
| 130 | 113.9 | 87.2 | 130.8 |

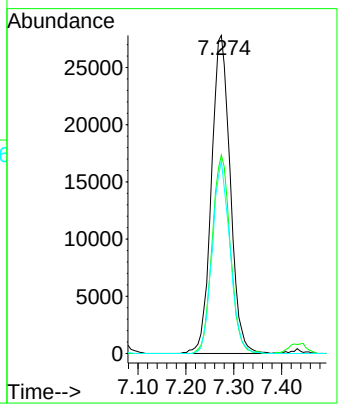





#29
Tetrahydrofuran
Concen: 764.431 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 42 Resp: 75734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 60.4 | 47.4 | 71.0 |
| 71 | 57.1 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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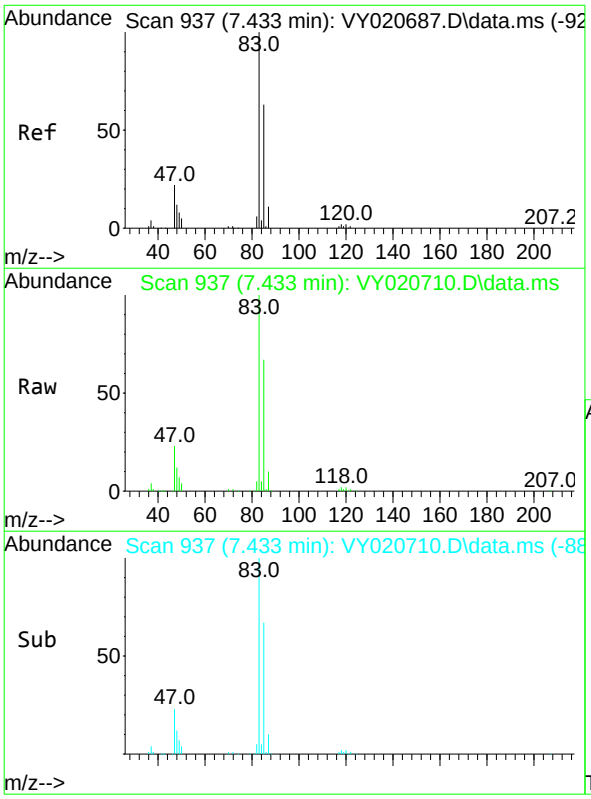
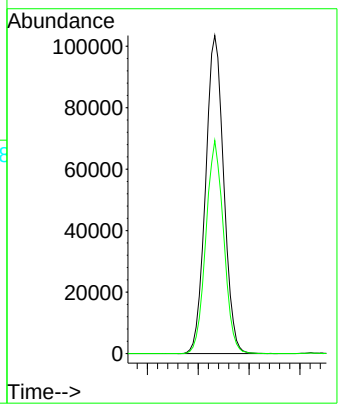
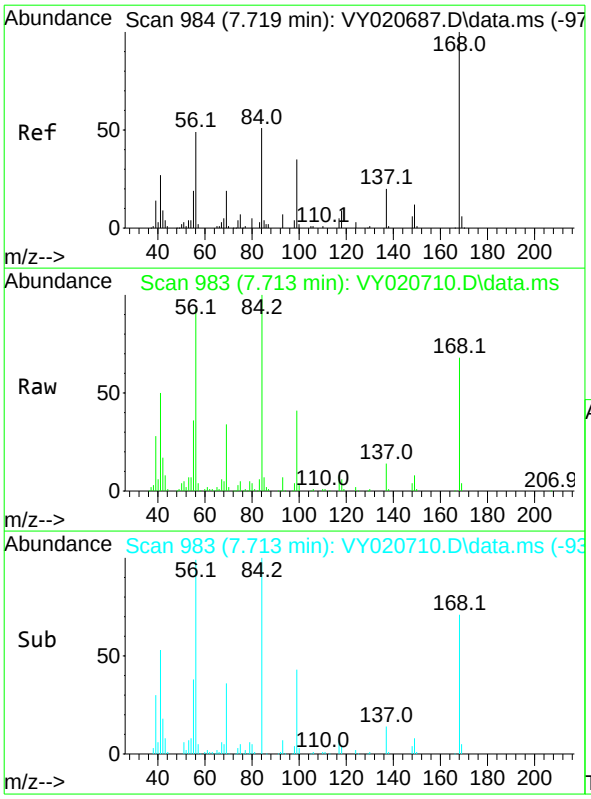



#30
Chloroform
Concen: 141.892 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 83 Resp: 255843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.0 | 50.2 | 75.2 |

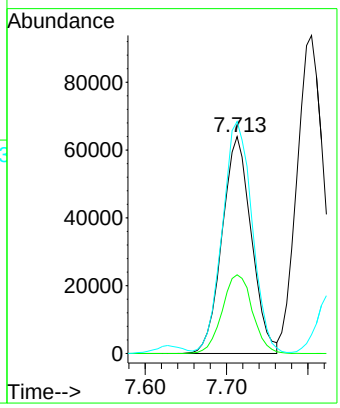





#31
Cyclohexane
Concen: 131.985 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 56 Resp: 159686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 36.3 | 31.3 | 46.9 |
| 84 | 104.4 | 83.9 | 125.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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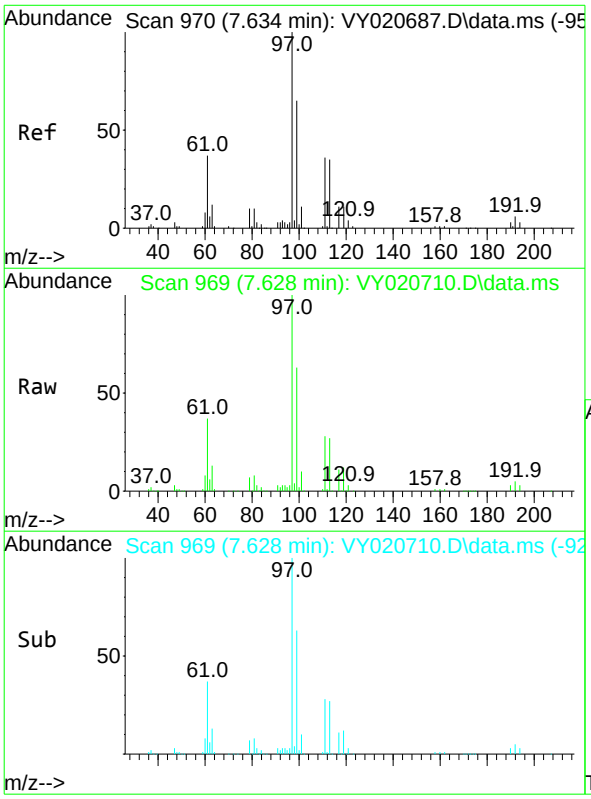
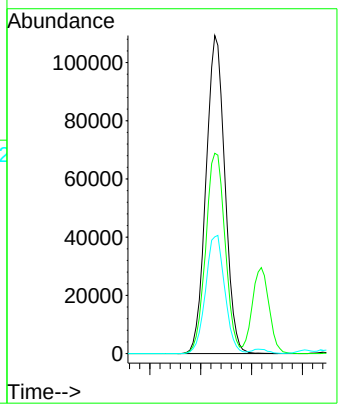
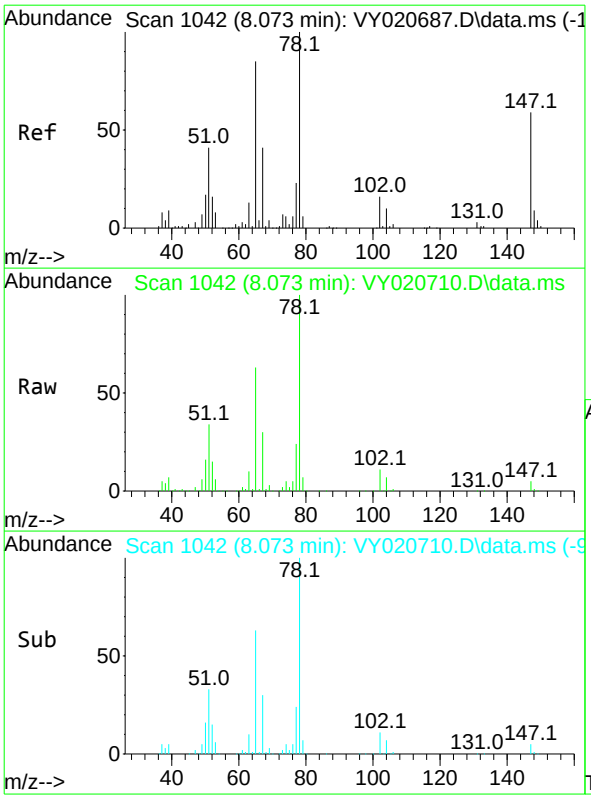



#32
1,1,1-Trichloroethane
Concen: 145.661 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 97 Resp: 281529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 51.0 | 76.6 |
| 61 | 37.8 | 30.0 | 45.0 |

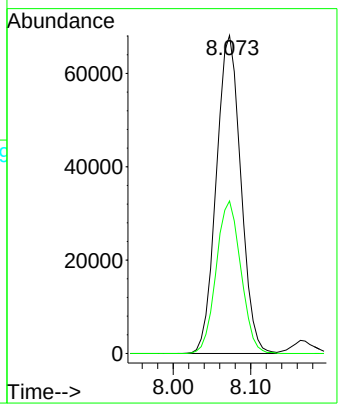





#33
1,2-Dichloroethane-d4
Concen: 158.772 ug/l
RT: 8.073 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 65 Resp: 149540

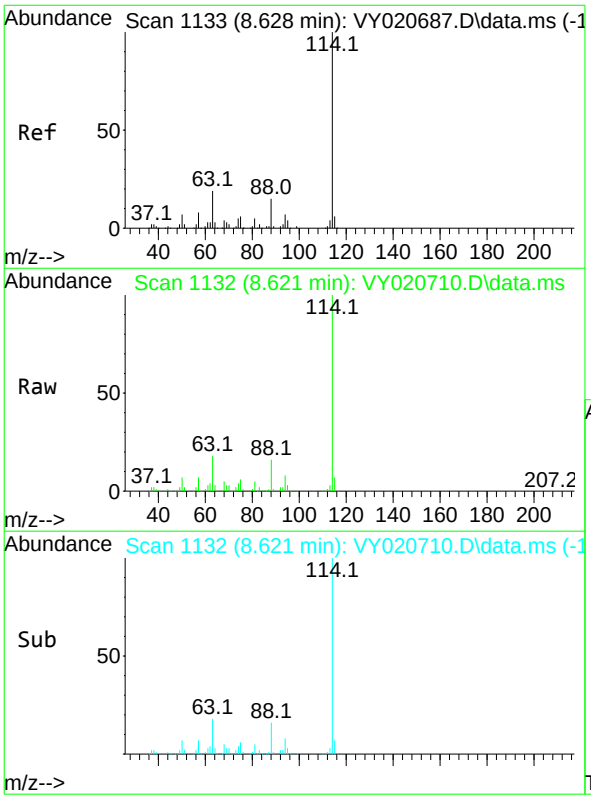
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.3 | 0.0 | 98.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

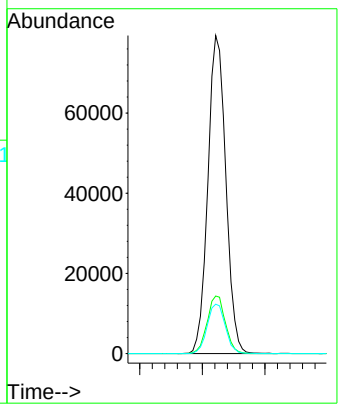
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

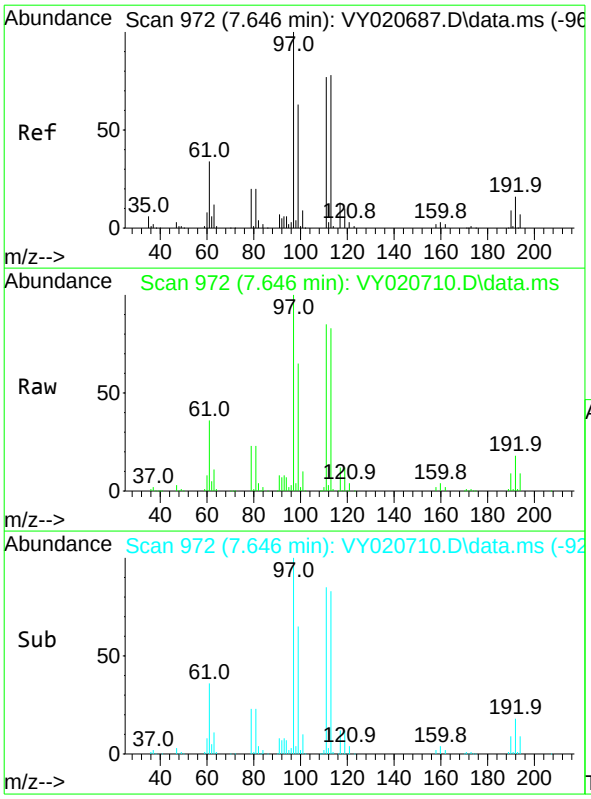



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 1132
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:114 Resp: 158039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.1 | 0.0 | 38.4 |
| 88 | 15.5 | 0.0 | 30.4 |

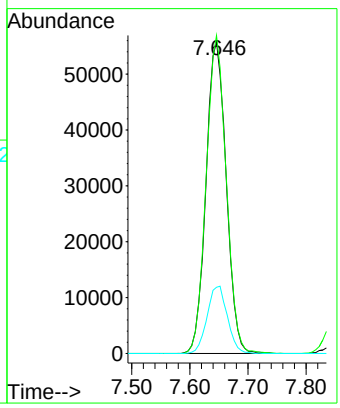





#35
Dibromofluoromethane
Concen: 154.819 ug/l
RT: 7.646 min Scan# 97
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:113 Resp: 134770

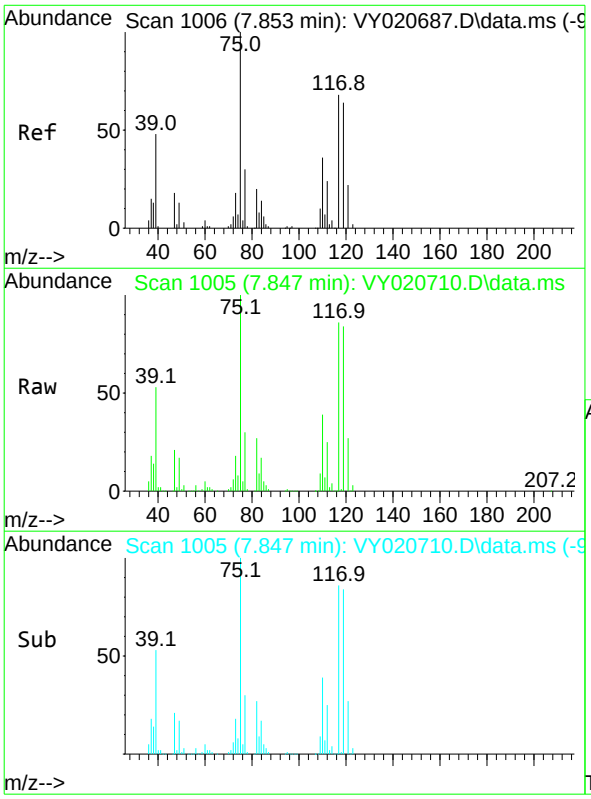
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.0 | 79.8 | 119.8 |
| 192 | 21.7 | 17.0 | 25.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

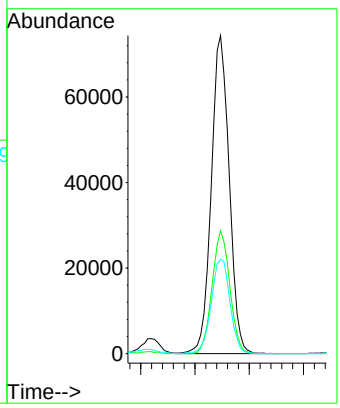
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

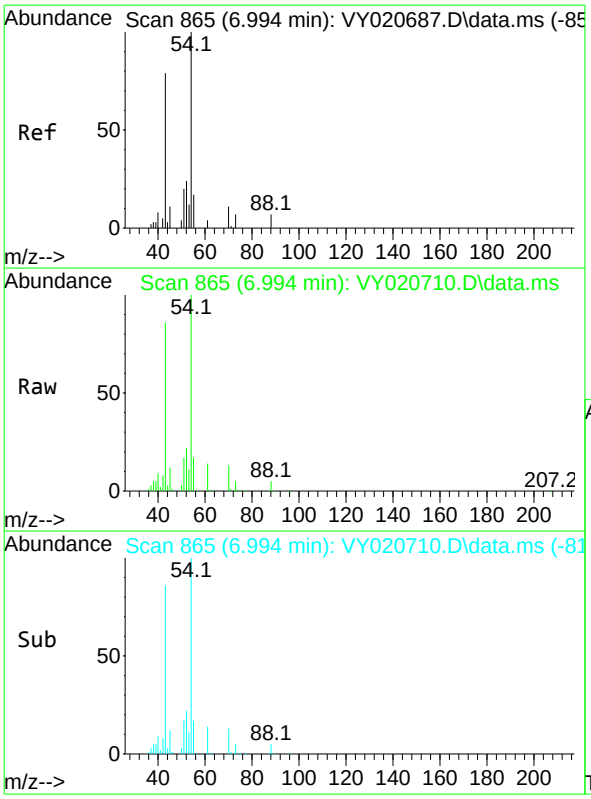



#36
1,1-Dichloropropene
Concen: 148.123 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 75 Resp: 170324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.2 | 19.6 | 58.7 |
| 77 | 31.1 | 25.1 | 37.7 |

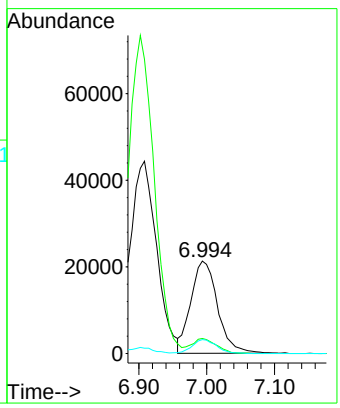





#37
Ethyl Acetate
Concen: 153.750 ug/l
RT: 6.994 min Scan# 86
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 58258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.5 | 11.7 | 17.5 |
| 70 | 13.8 | 11.0 | 16.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

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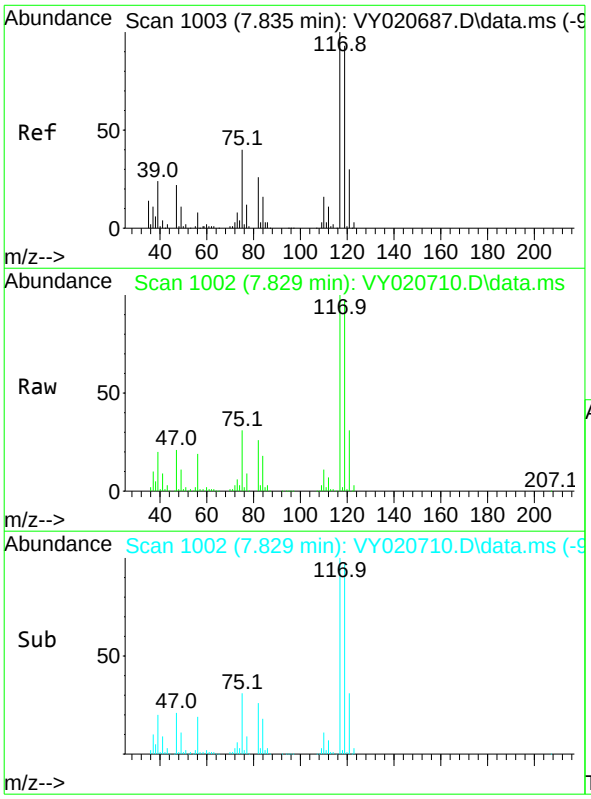
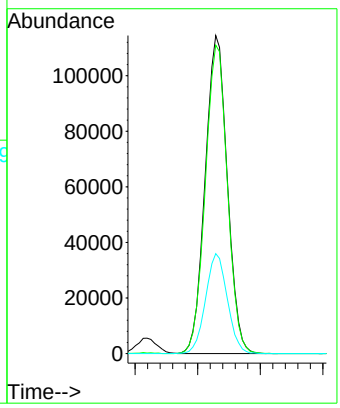
Supervised By :Semsettin Yesilyurt 12/27/2024

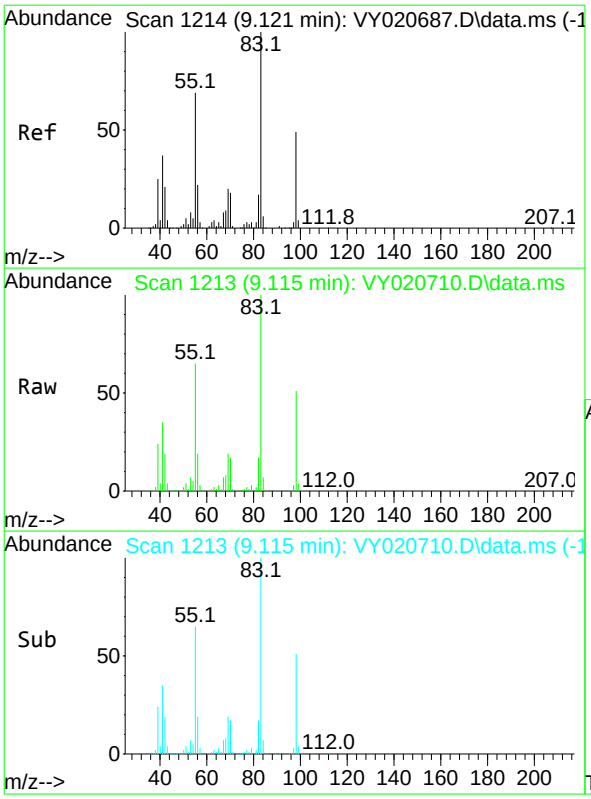



#38
Carbon Tetrachloride
Concen: 148.522 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:117 Resp: 281225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.0 | 74.4 | 111.6 |
| 121 | 31.4 | 24.2 | 36.2 |

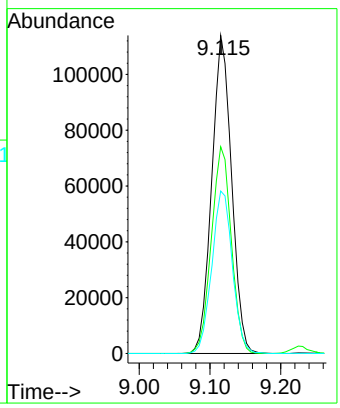





#39
Methylcyclohexane
Concen: 150.669 ug/l
RT: 9.115 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 83 Resp: 222062

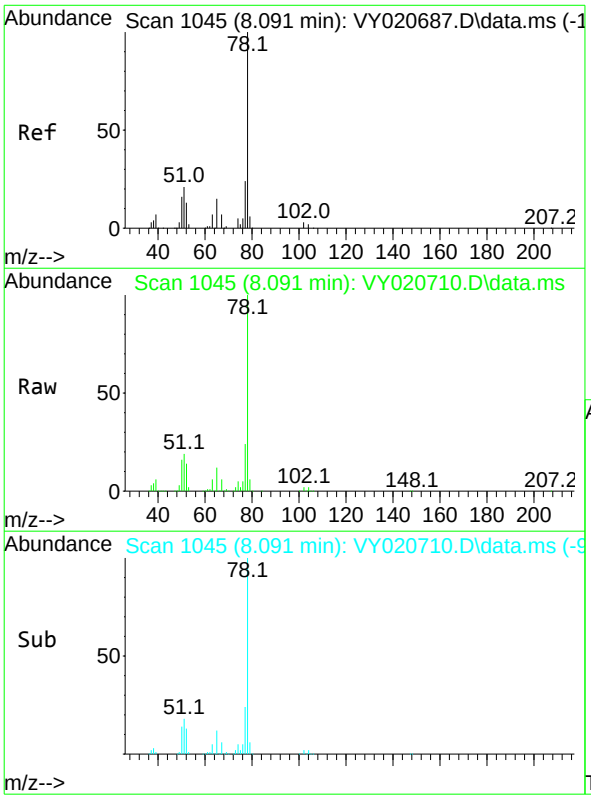
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.0 | 55.0 | 82.4 |
| 98 | 51.1 | 39.0 | 58.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

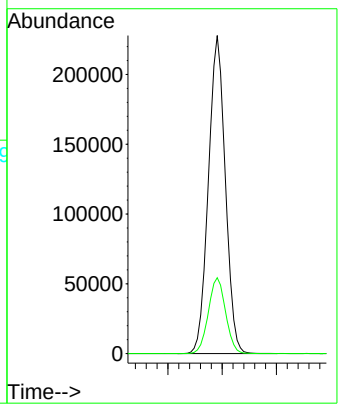
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

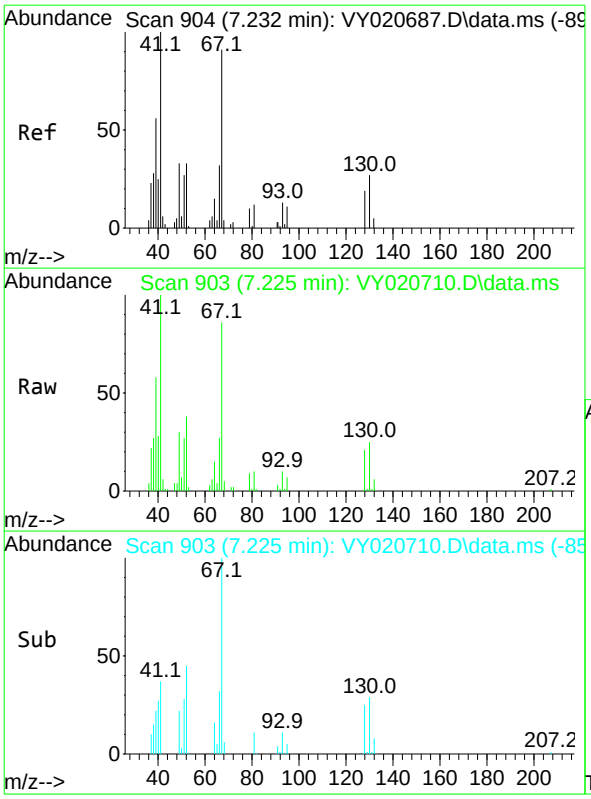



#40
Benzene
Concen: 148.061 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 78 Resp: 493419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 19.2 | 28.8 |

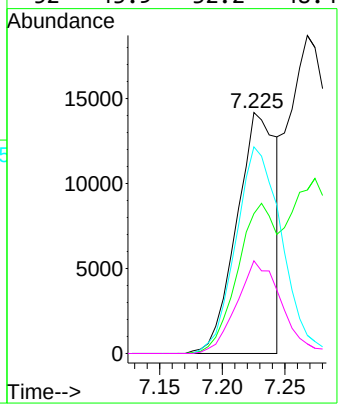





#41
Methacrylonitrile
Concen: 161.841 ug/l
RT: 7.225 min Scan# 90
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 41 Resp: 30977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.5 | 46.6 | 70.0 |
| 67 | 100.3 | 74.7 | 112.1 |
| 52 | 43.9 | 32.2 | 48.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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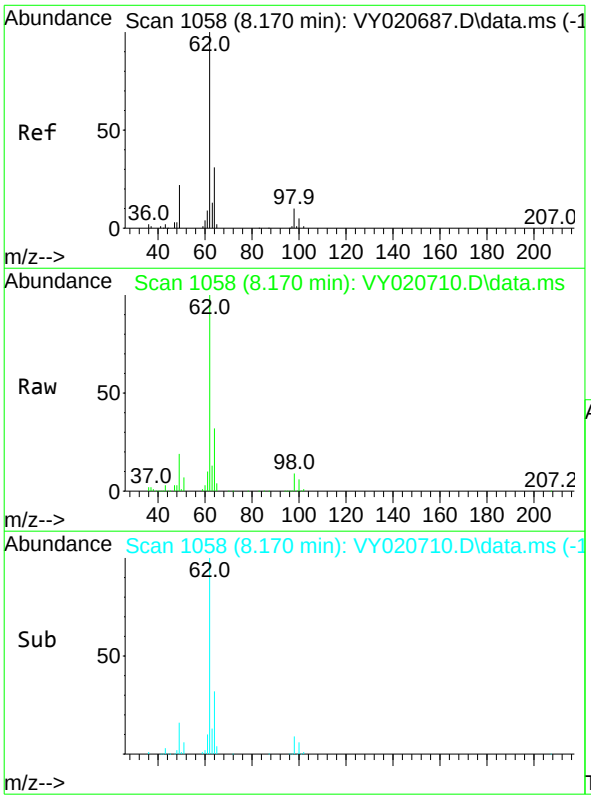
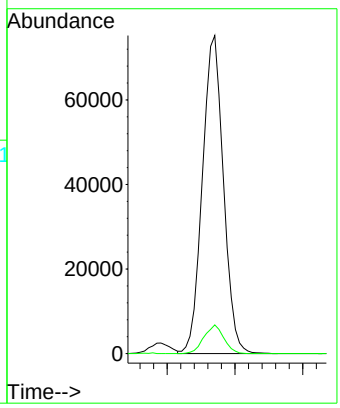
Supervised By :Semsettin Yesilyurt 12/27/2024

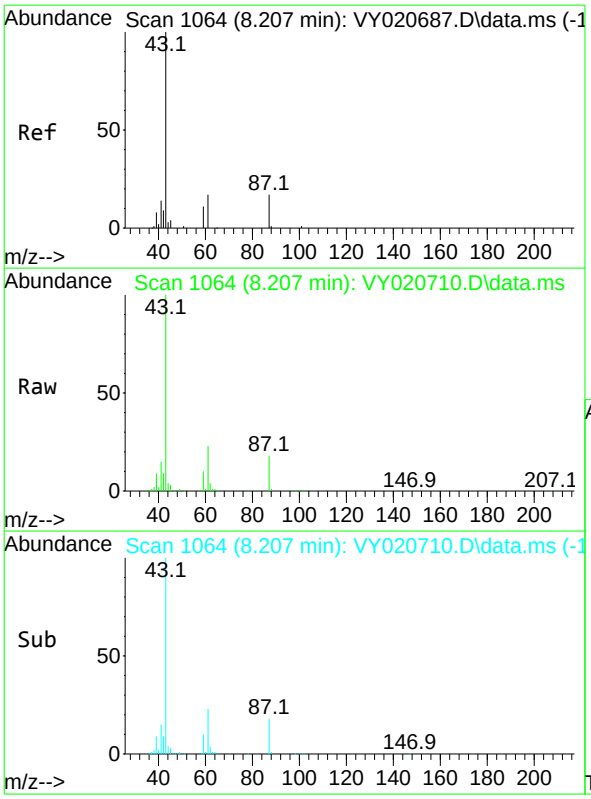



#42
1,2-Dichloroethane
Concen: 151.768 ug/l
RT: 8.170 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 62 Resp: 162177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.5 | 0.0 | 16.6 |

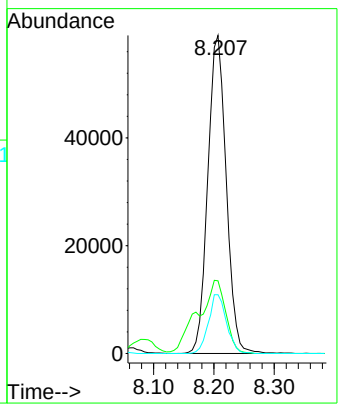





#43
Isopropyl Acetate
Concen: 155.741 ug/l
RT: 8.207 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 125433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 34.8 | 27.0 | 40.4 |
| 87 | 18.2 | 14.2 | 21.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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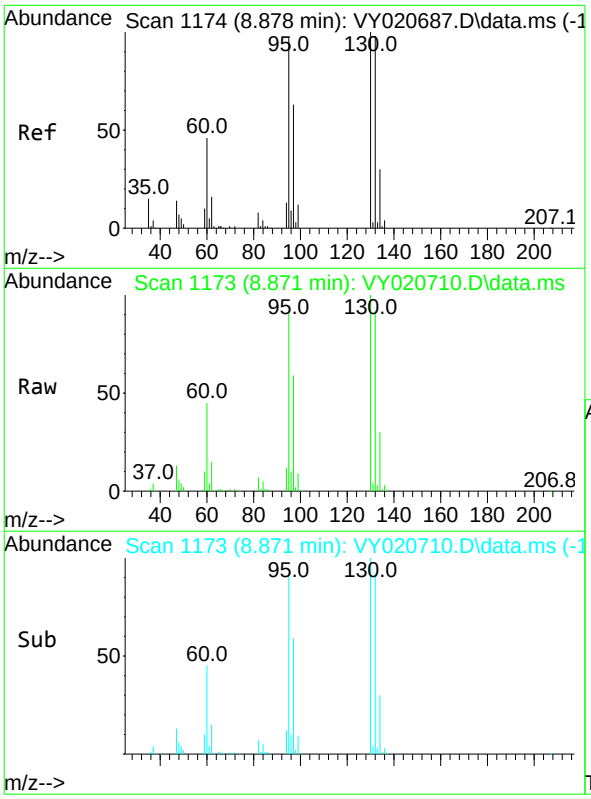
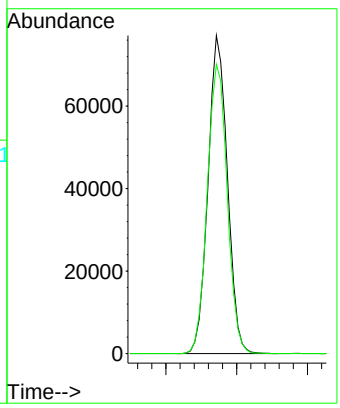
Supervised By :Semsettin Yesilyurt 12/27/2024

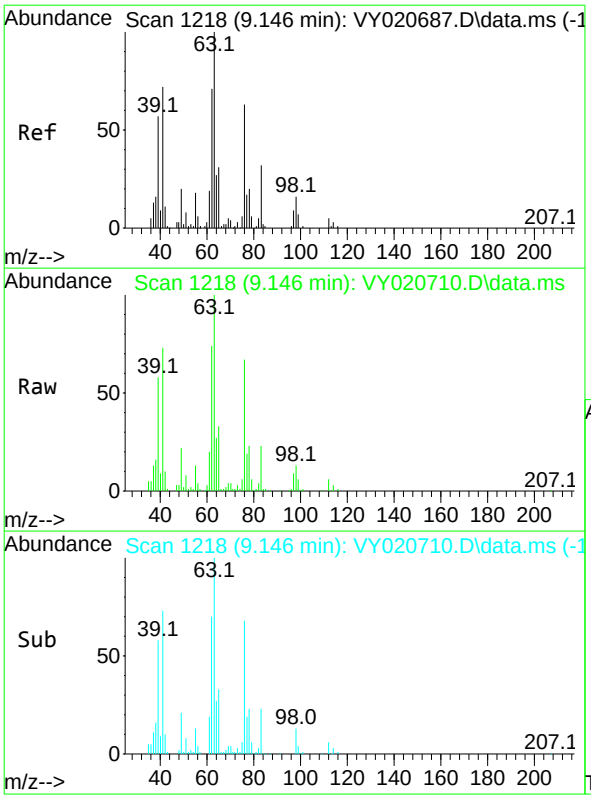



#44
Trichloroethene
Concen: 147.303 ug/l
RT: 8.871 min Scan# 1173
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:130 Resp: 146621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 91.0 | 0.0 | 194.8 |

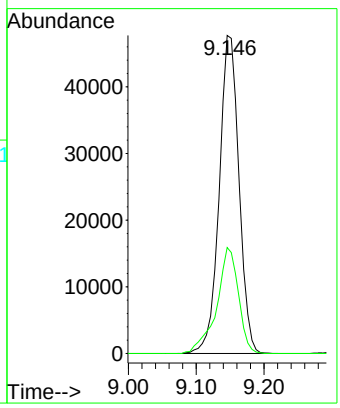





#45
1,2-Dichloropropane
Concen: 143.087 ug/l
RT: 9.146 min Scan# 12
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 63 Resp: 96524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.3 | 24.6 | 36.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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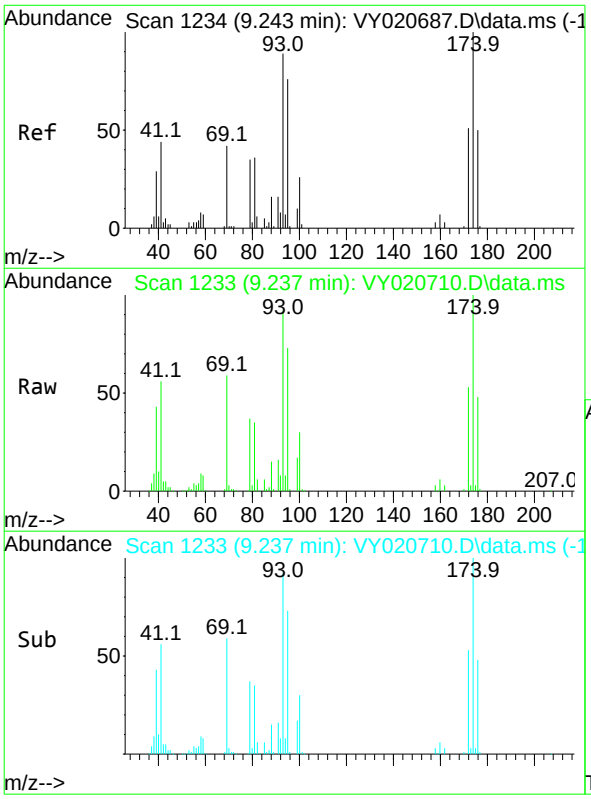
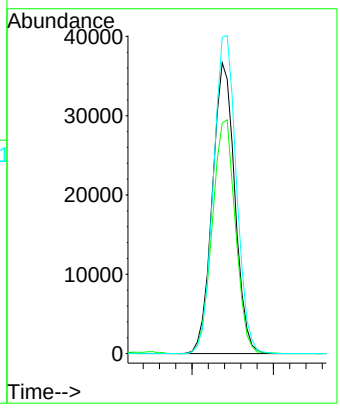
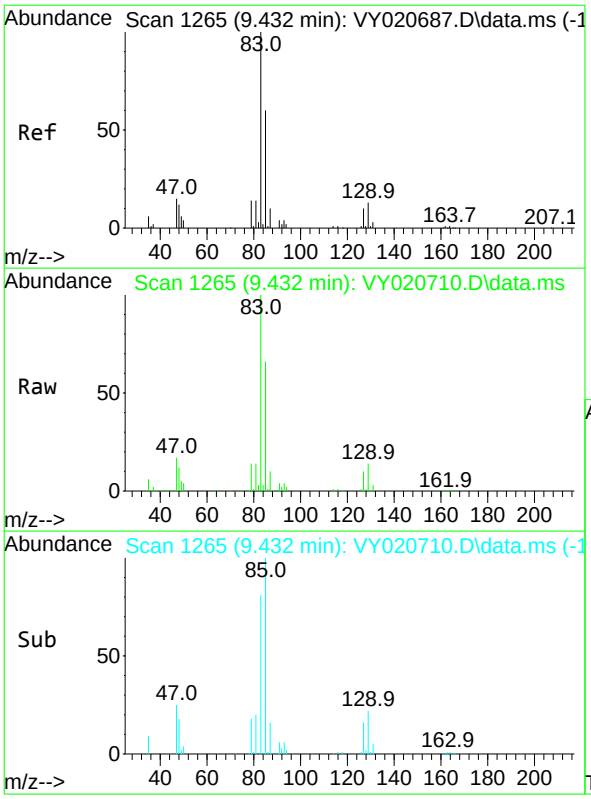



#46
Dibromomethane
Concen: 150.351 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 93 Resp: 70177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.6 | 67.8 | 101.8 |
| 174 | 111.6 | 89.4 | 134.0 |

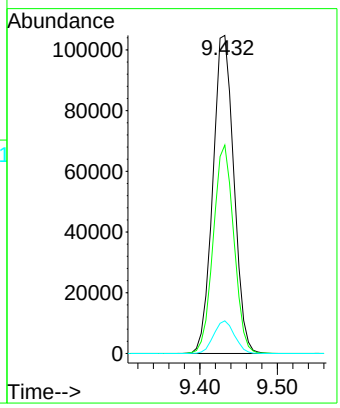





#47
Bromodichloromethane
Concen: 148.994 ug/l
RT: 9.432 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 83 Resp: 197163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.5 | 47.6 | 71.4 |
| 127 | 10.3 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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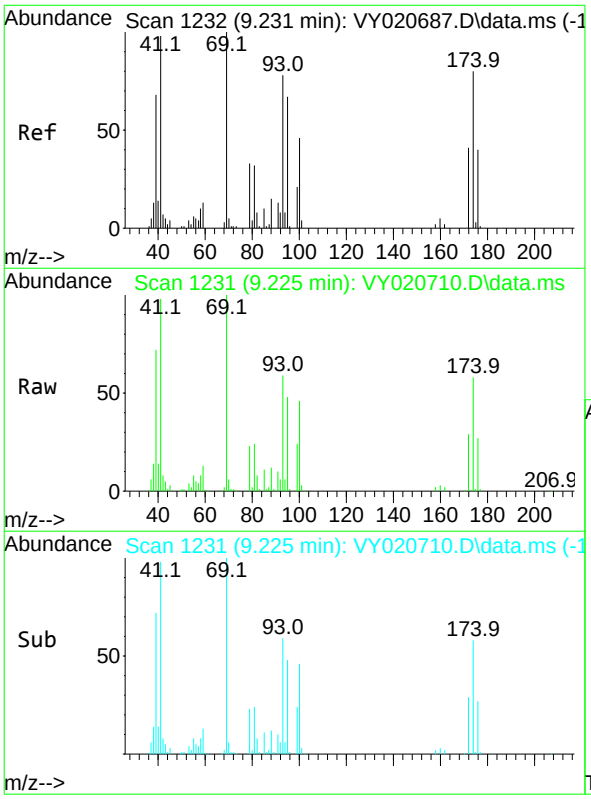
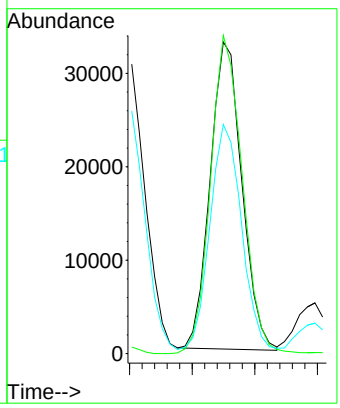
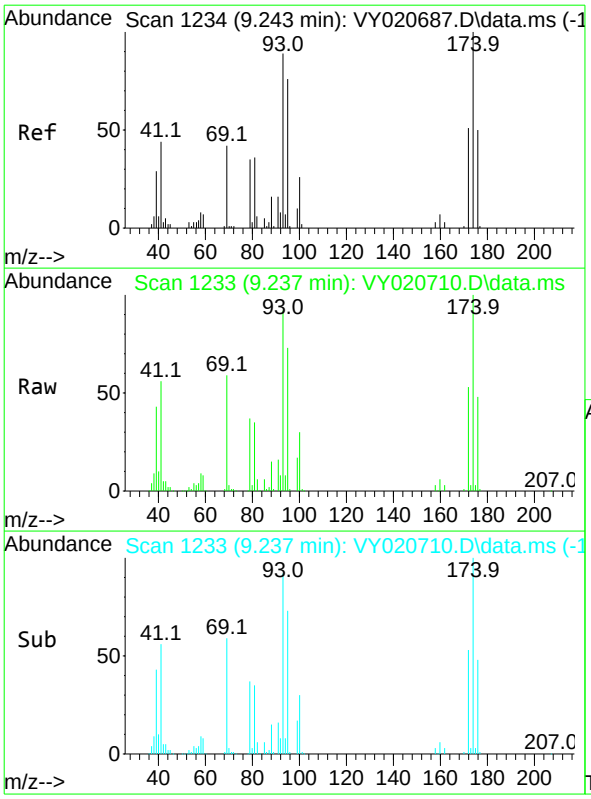



#48
Methyl methacrylate
Concen: 153.712 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 41 Resp: 57813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 104.1 | 83.1 | 124.7 |
| 39 | 73.2 | 57.3 | 85.9 |

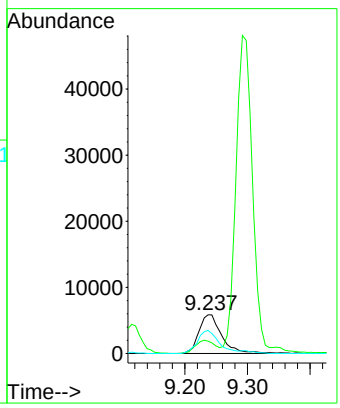





#49
1,4-Dioxane
Concen: 3331.078 ug/l
RT: 9.237 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 88 Resp: 14810

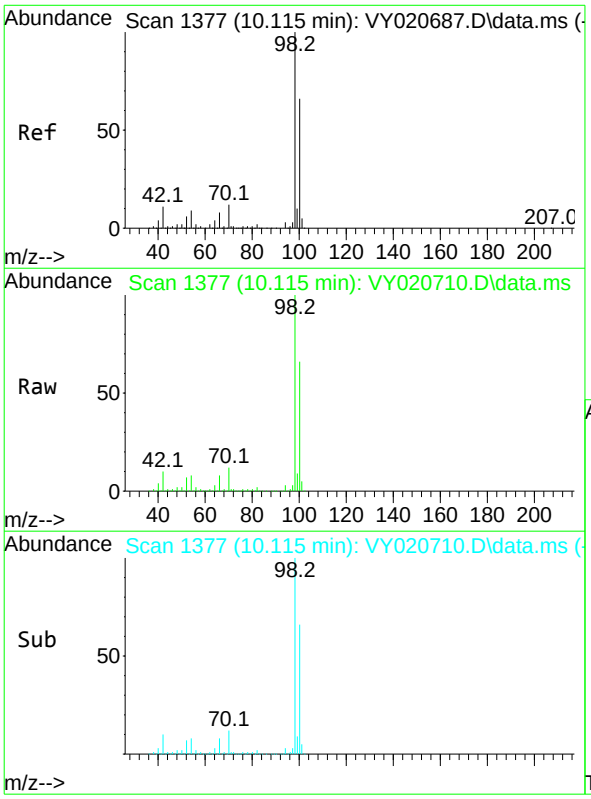
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 22.1 | 33.1 |
| 58 | 59.7 | 46.7 | 70.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

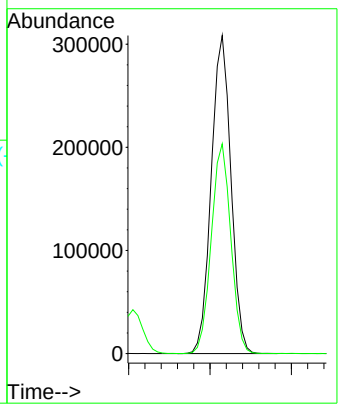
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

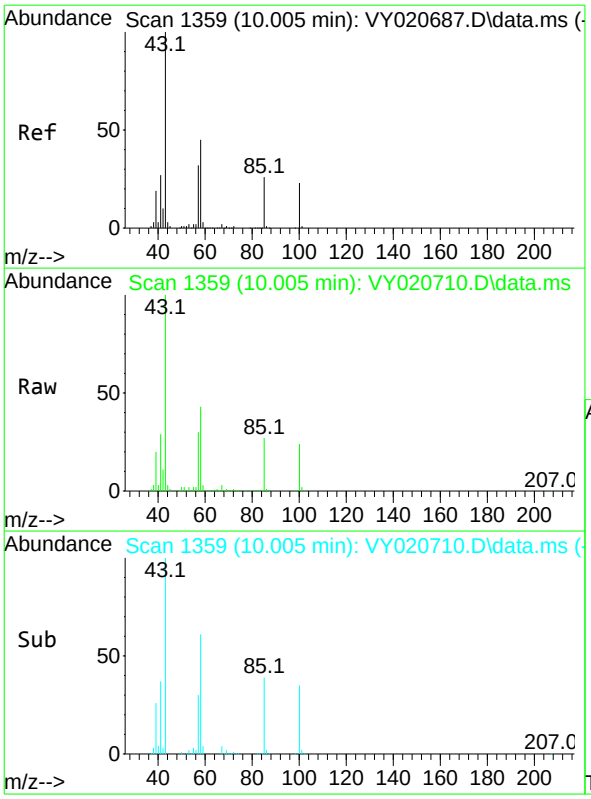



#50
Toluene-d8
Concen: 146.261 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 98 Resp: 518209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.5 | 52.2 | 78.4 |

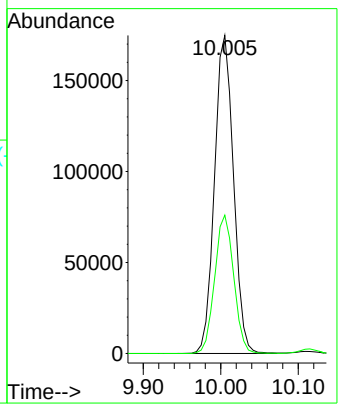





#51
4-Methyl-2-Pentanone
Concen: 766.010 ug/l
RT: 10.005 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 297779

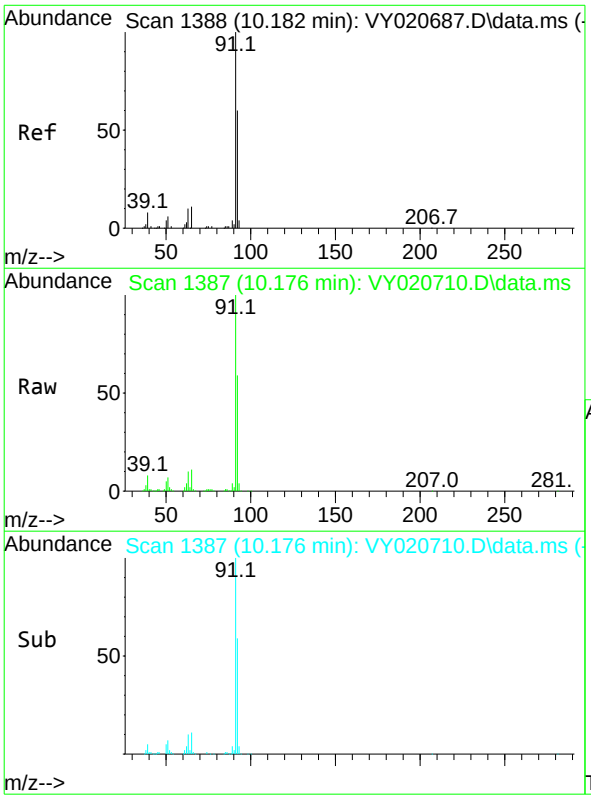
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.6 | 35.1 | 52.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

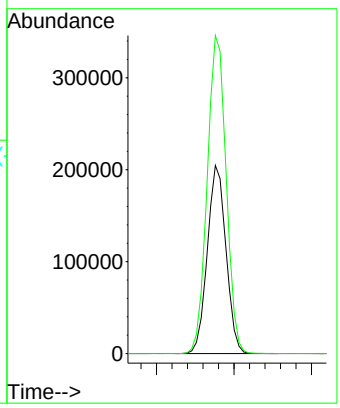
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

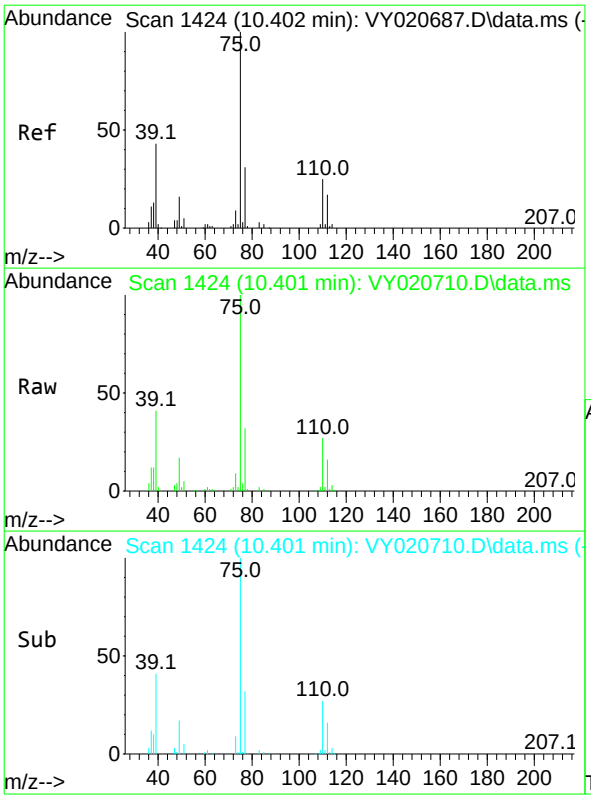



#52
Toluene
Concen: 149.994 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 92 Resp: 342599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 137.7 | 206.5 |

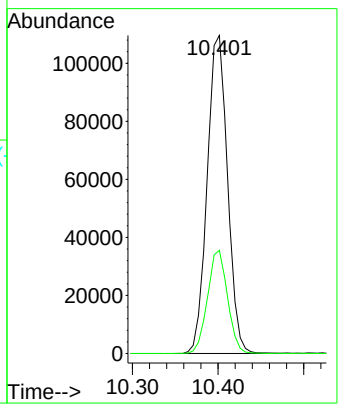





#53
t-1,3-Dichloropropene
Concen: 155.696 ug/l
RT: 10.401 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 75 Resp: 180957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.1 | 37.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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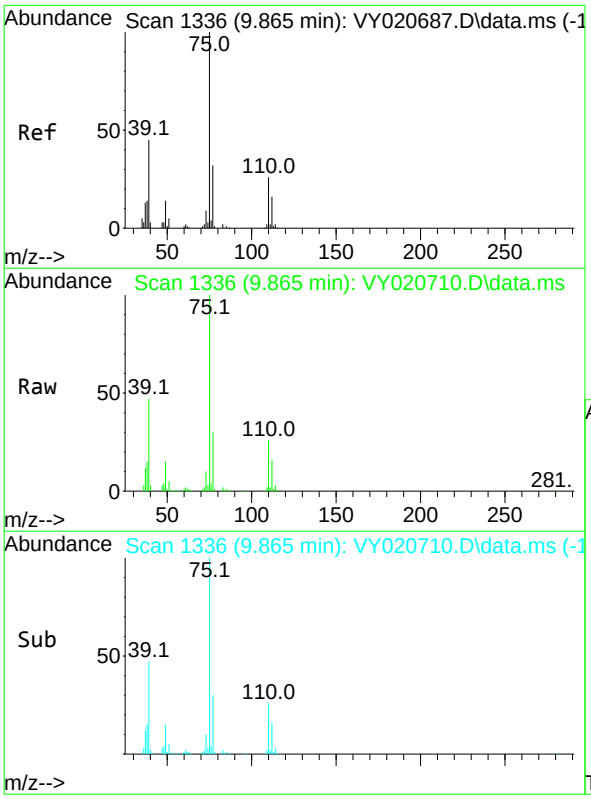
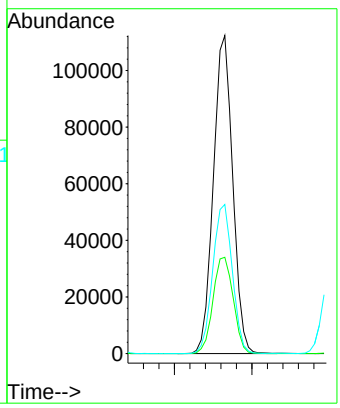
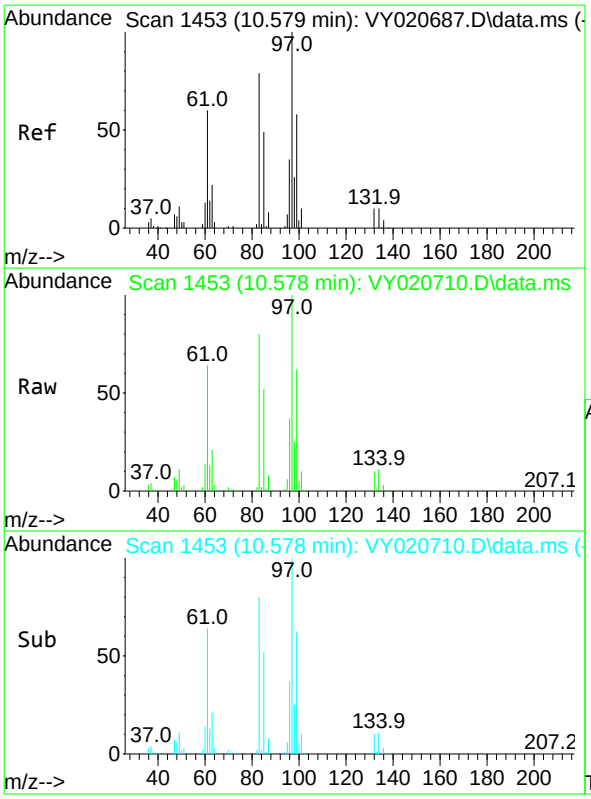



#54
cis-1,3-Dichloropropene
Concen: 152.747 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 75 Resp: 194591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.3 | 25.6 | 38.4 |
| 39 | 46.9 | 36.2 | 54.2 |

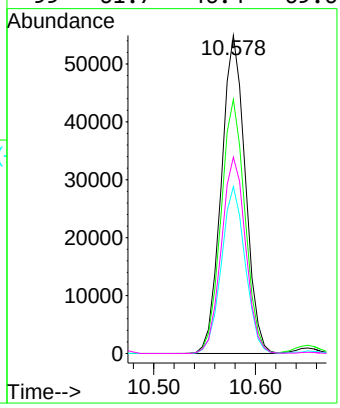





#55
1,1,2-Trichloroethane
Concen: 150.745 ug/l
RT: 10.578 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 97 Resp: 89814

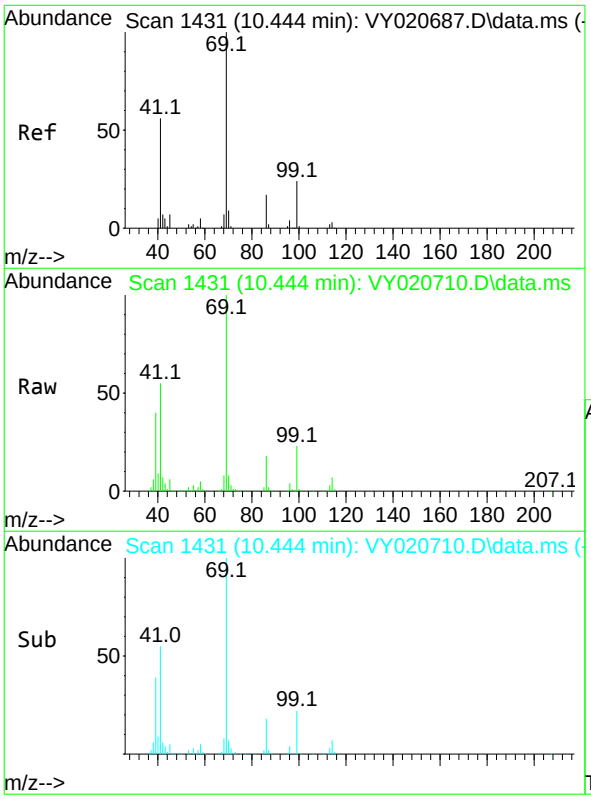
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 79.9 | 63.1 | 94.7 |
| 85 | 52.5 | 39.5 | 59.3 |
| 99 | 61.7 | 46.4 | 69.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

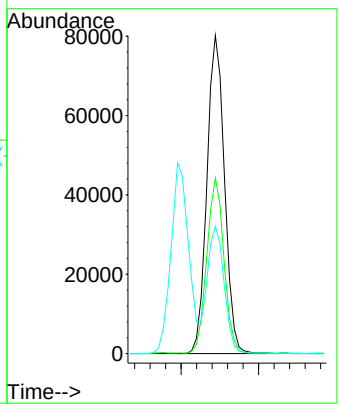
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

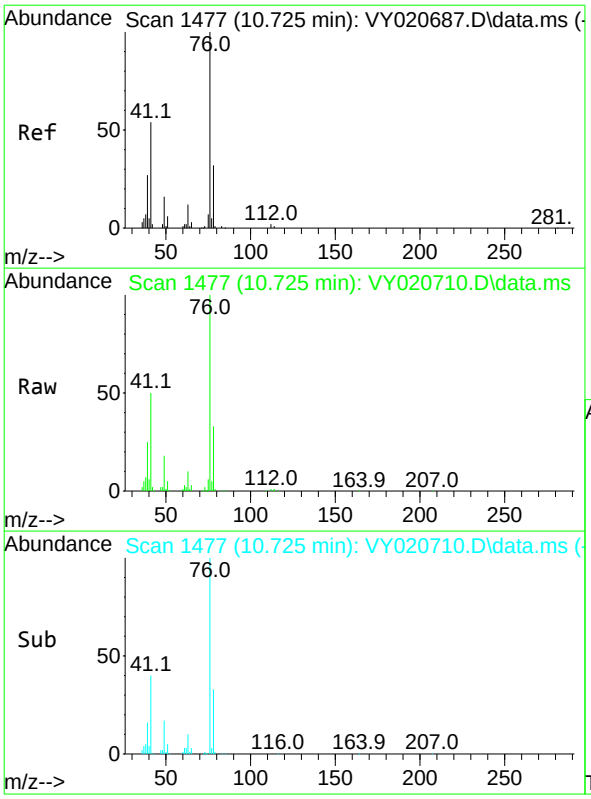



#56
Ethyl methacrylate
Concen: 160.965 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 69 Resp: 125990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 54.1 | 43.8 | 65.6 |
| 39 | 39.9 | 32.0 | 48.0 |

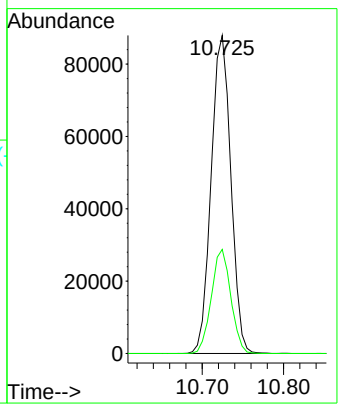





#57
1,3-Dichloropropane
Concen: 152.813 ug/l
RT: 10.725 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 76 Resp: 147770

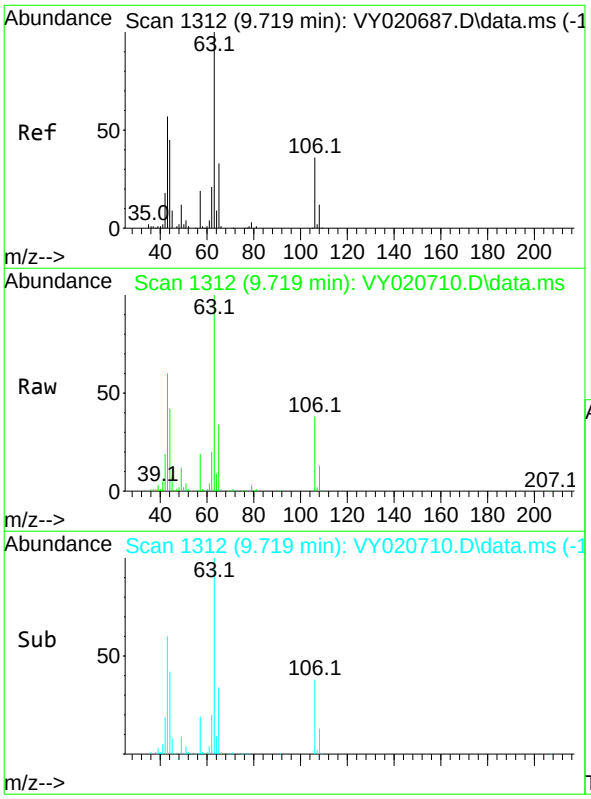
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

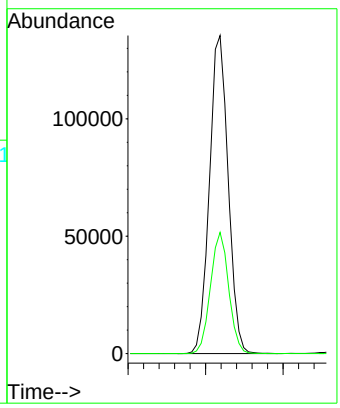
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

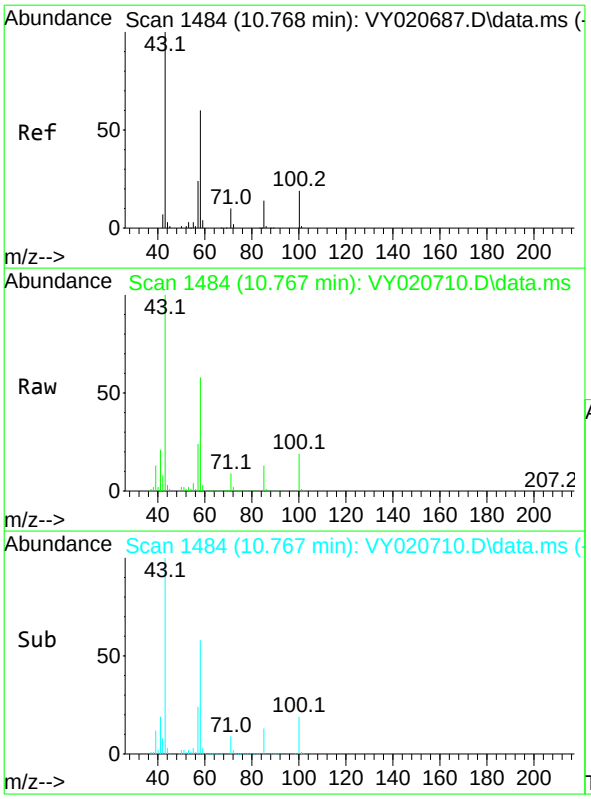



#58
2-Chloroethyl Vinyl ether
Concen: 833.052 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 63 Resp: 227376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 37.1 | 29.1 | 43.7 |

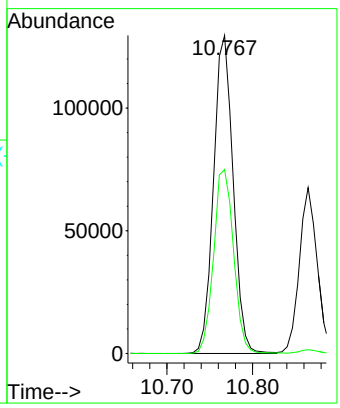





#59
2-Hexanone
Concen: 801.023 ug/l
RT: 10.767 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 205596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.2 | 30.1 | 90.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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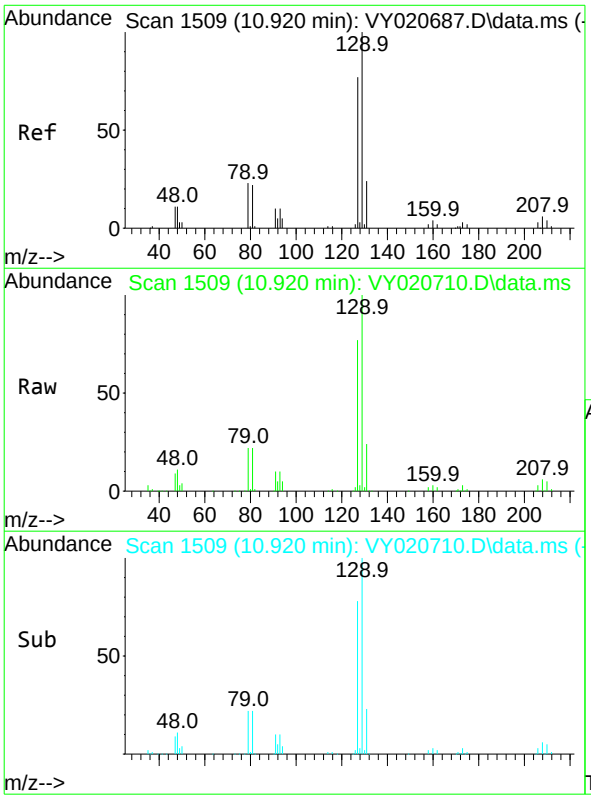
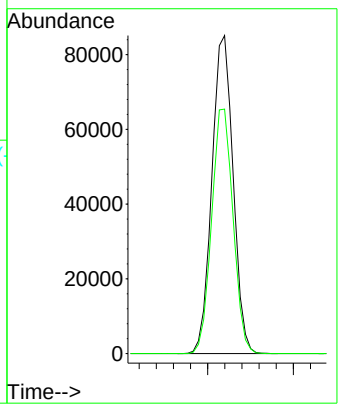
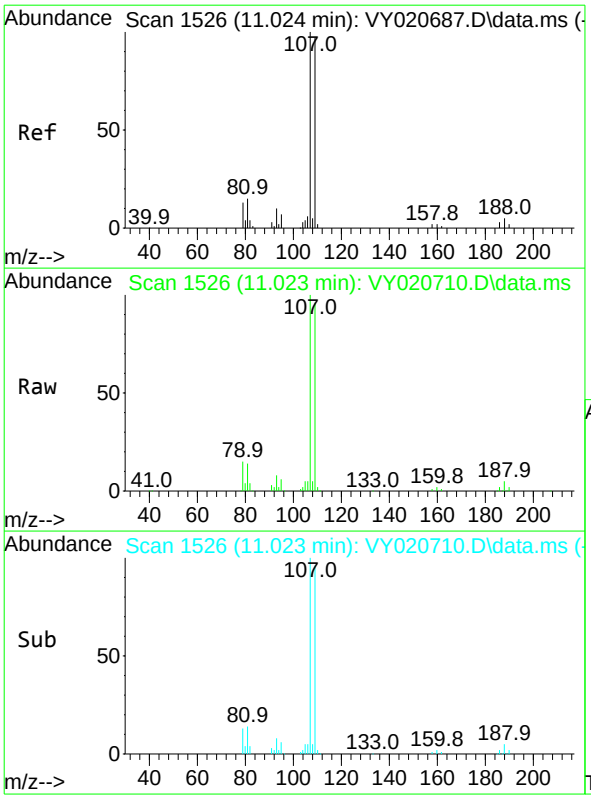



#60
Dibromochloromethane
Concen: 152.023 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:129 Resp: 146356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.6 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 155.511 ug/l
RT: 11.023 min Scan# 15
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:107 Resp: 87182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.3 | 75.5 | 113.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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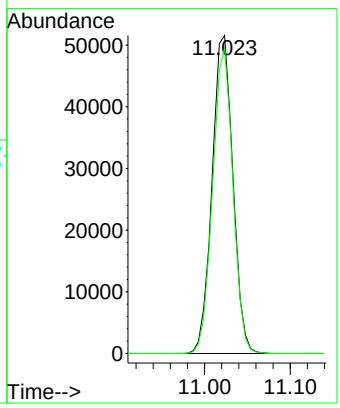
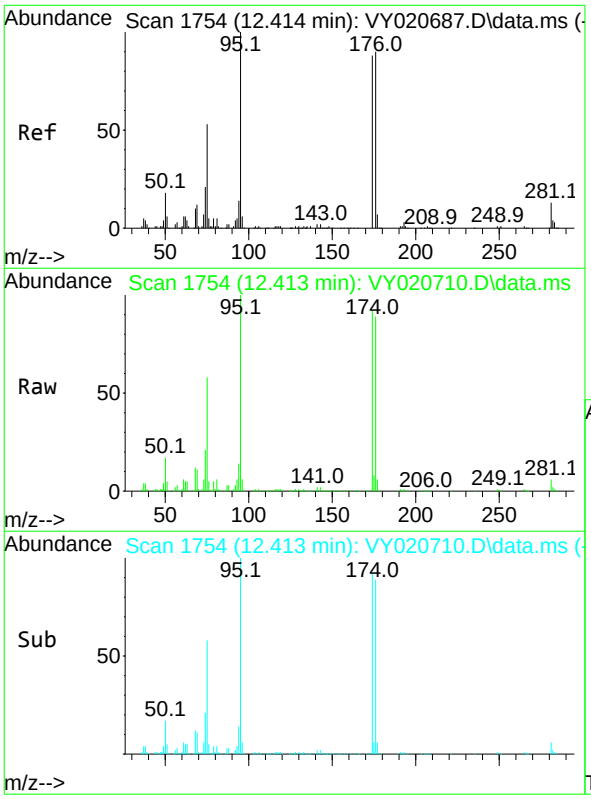
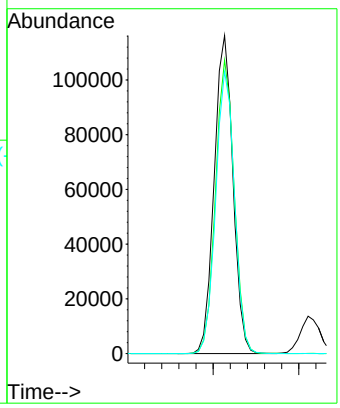


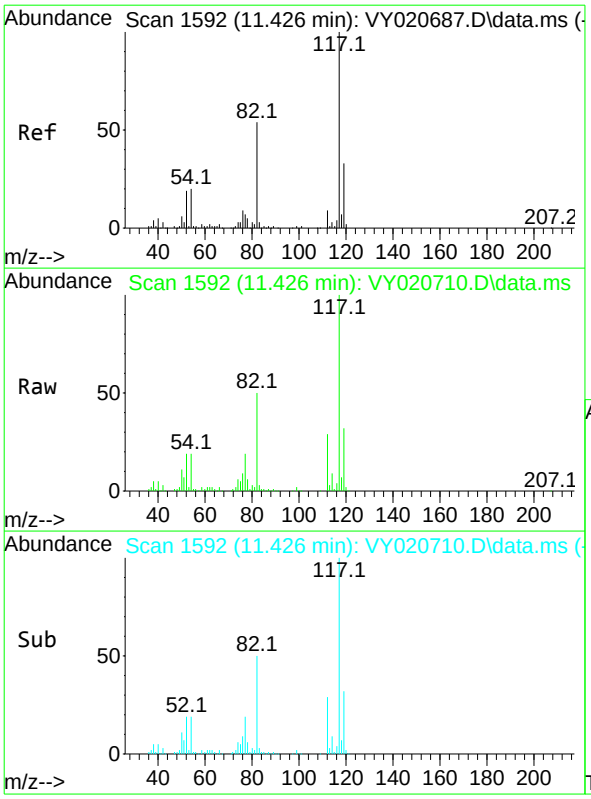




#62
4-Bromofluorobenzene
Concen: 152.741 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 95 Resp: 176701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 92.3 | 0.0 | 179.2 |
| 176 | 89.0 | 0.0 | 179.8 |

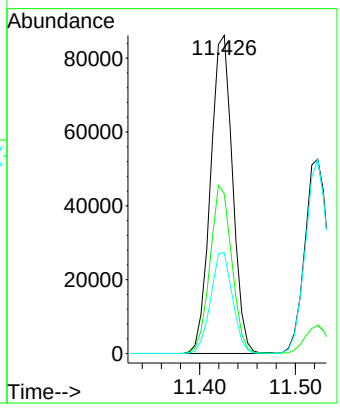





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:117 Resp: 137996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.2 | 43.4 | 65.2 |
| 119 | 31.8 | 26.6 | 39.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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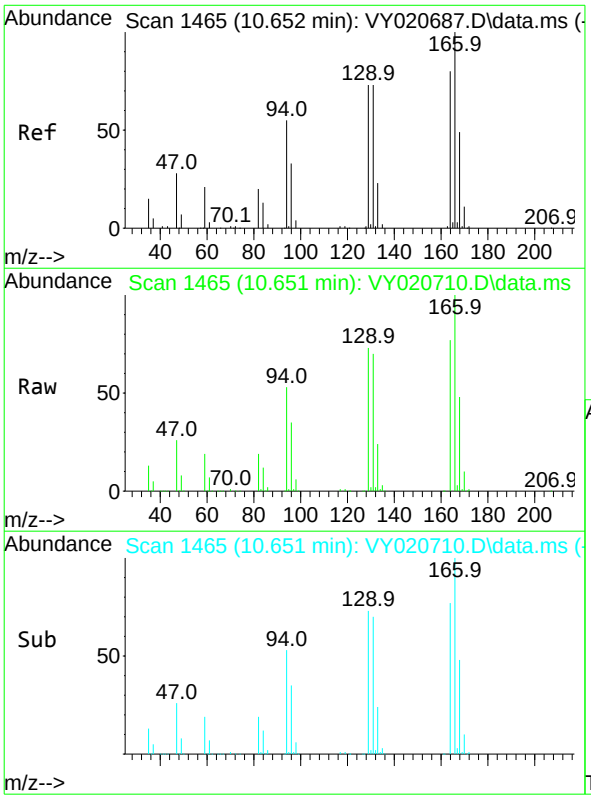
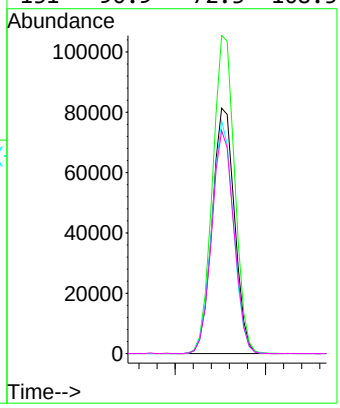
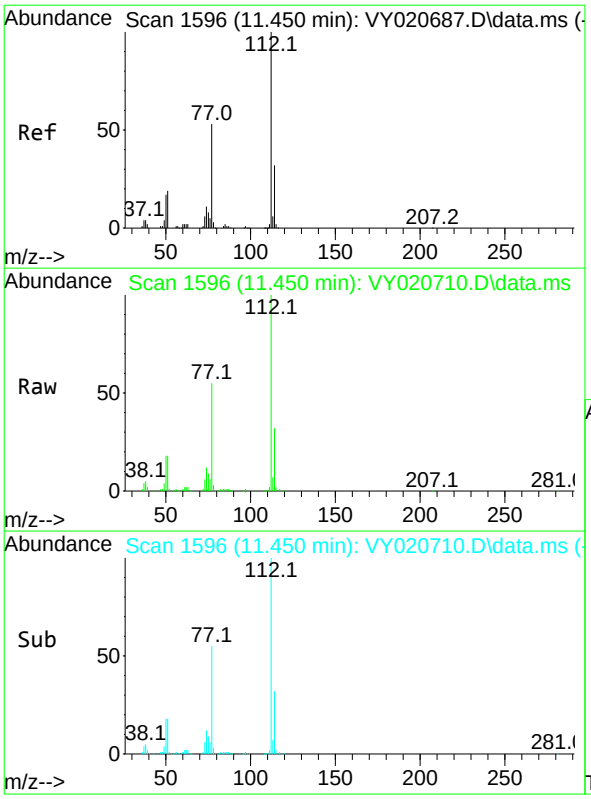



#64
Tetrachloroethene
Concen: 147.787 ug/l
RT: 10.651 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:164 Resp: 139334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.6 | 99.6 | 149.4 |
| 129 | 94.8 | 73.0 | 109.4 |
| 131 | 90.9 | 72.3 | 108.5 |

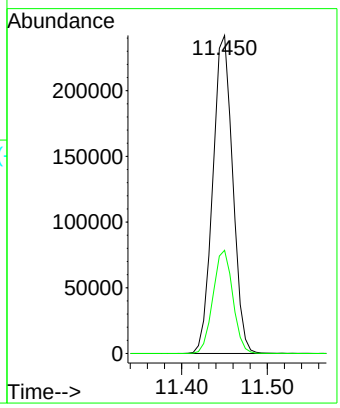





#65
Chlorobenzene
Concen: 144.451 ug/l
RT: 11.450 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:112 Resp: 390317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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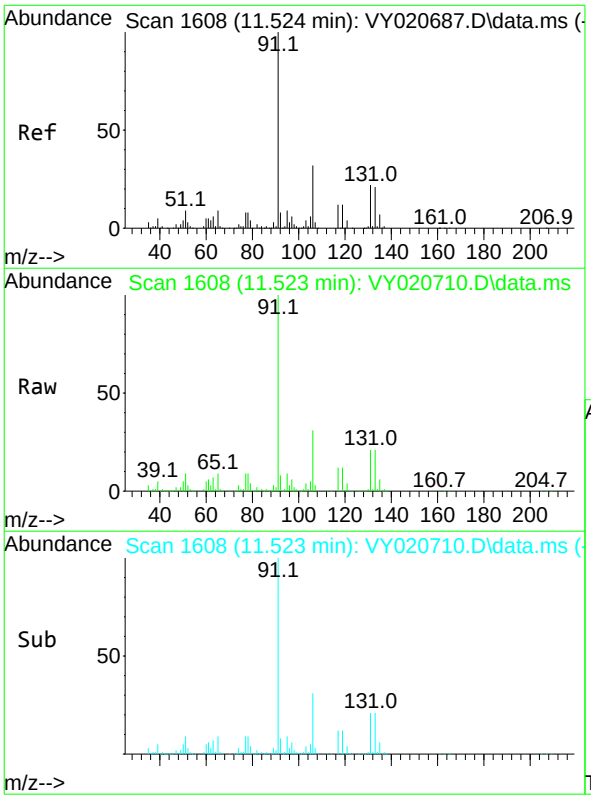
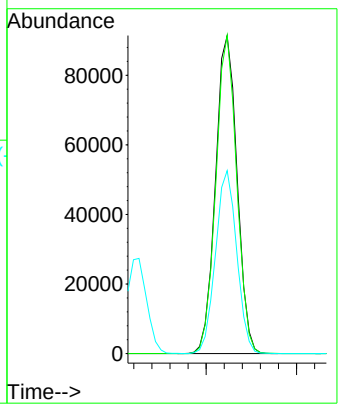
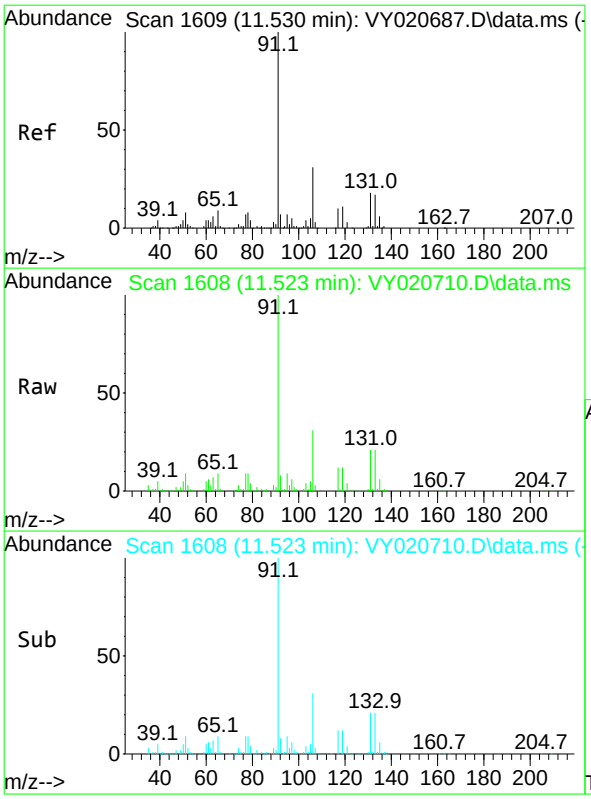



#66
1,1,1,2-Tetrachloroethane
Concen: 144.626 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:131 Resp: 151401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.5 | 48.6 | 145.9 |
| 119 | 56.7 | 28.4 | 85.3 |

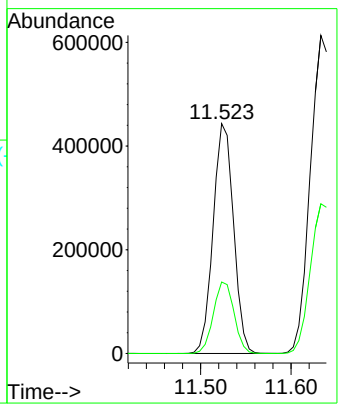





#67
Ethyl Benzene
Concen: 147.444 ug/l
RT: 11.523 min Scan# 16
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 91 Resp: 696321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 24.5 | 36.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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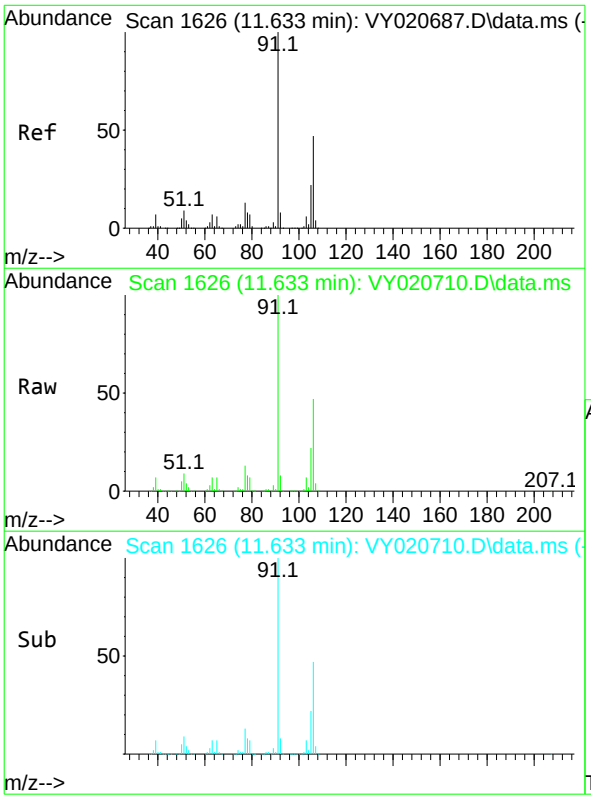
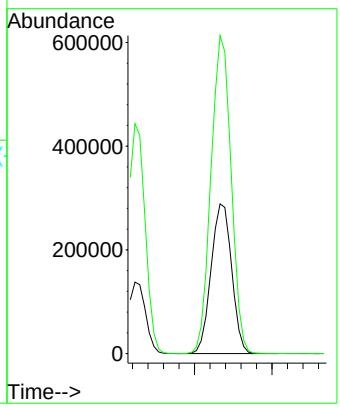
Supervised By :Semsettin Yesilyurt 12/27/2024

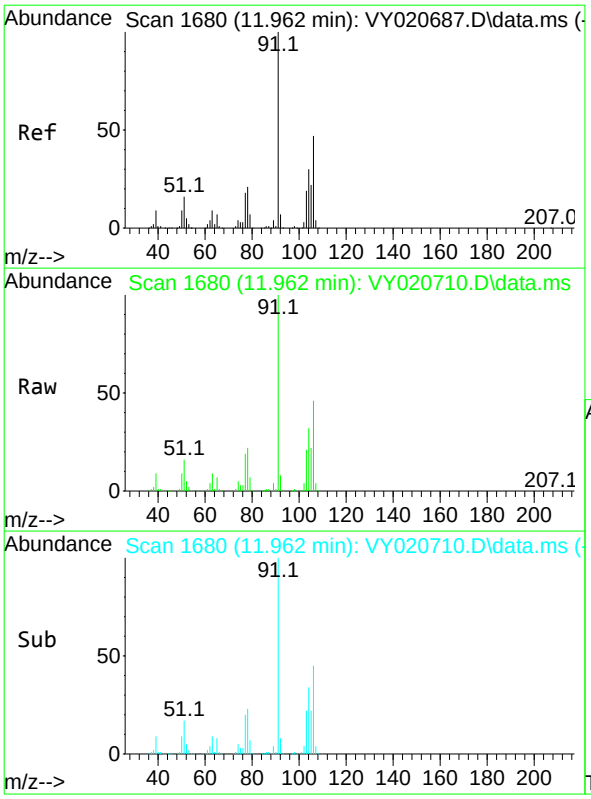



#68
m/p-Xylenes
Concen: 295.699 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:106 Resp: 532697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.1 | 166.6 | 250.0 |

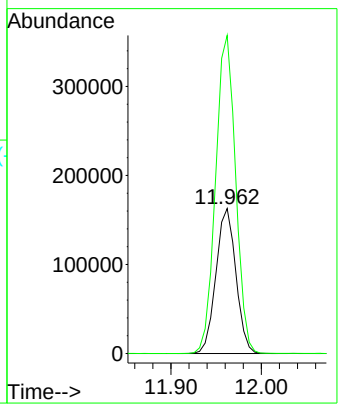





#69
o-Xylene
Concen: 145.003 ug/l
RT: 11.962 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:106 Resp: 249576

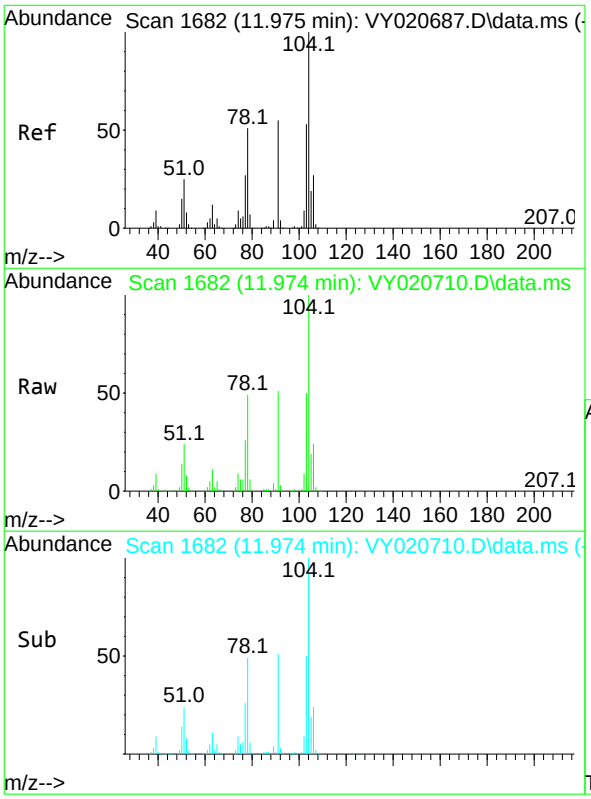
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.3 | 108.6 | 325.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

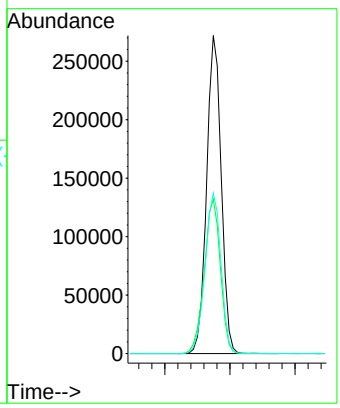
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

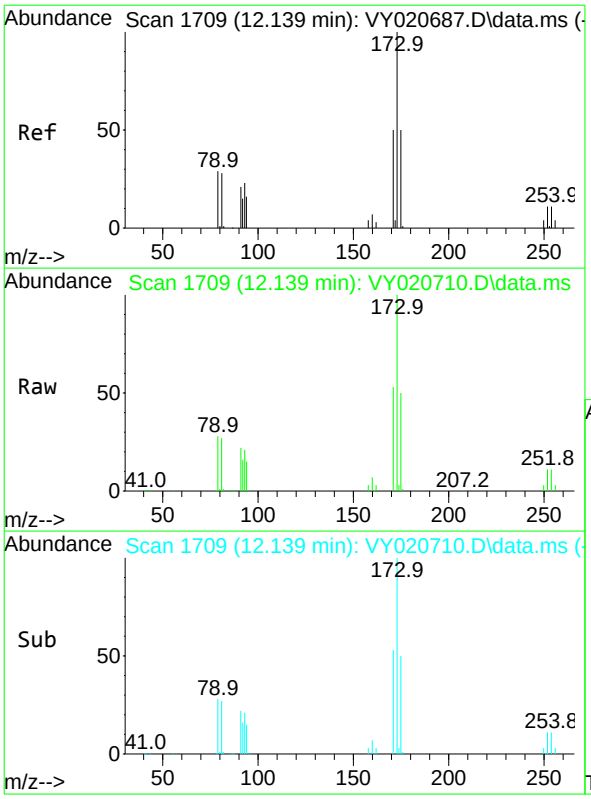



#70
Styrene
Concen: 146.372 ug/l
RT: 11.974 min Scan# 1682
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:104 Resp: 422920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.9 | 43.0 | 64.4 |
| 103 | 55.1 | 44.4 | 66.6 |

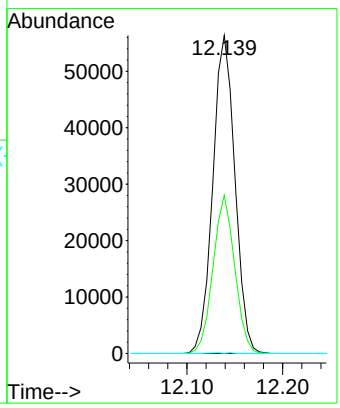





#71
Bromoform
Concen: 150.242 ug/l
RT: 12.139 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:173 Resp: 90423

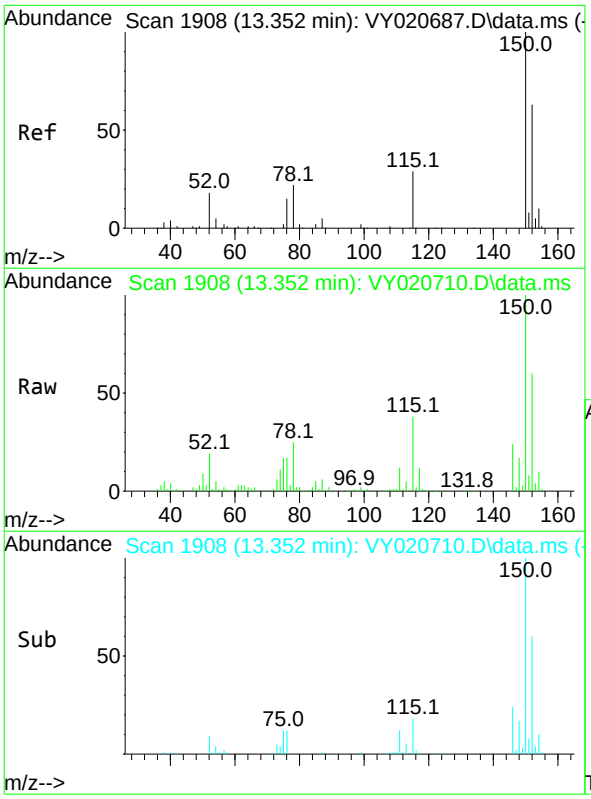
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.7 | 24.2 | 72.6 |
| 254 | 0.2 | 0.0 | 0.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

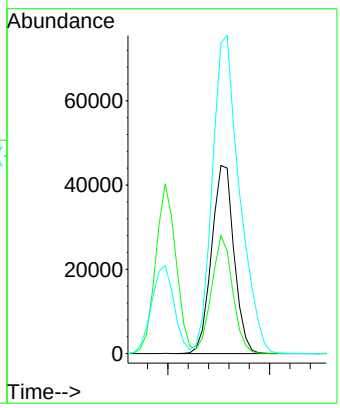
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

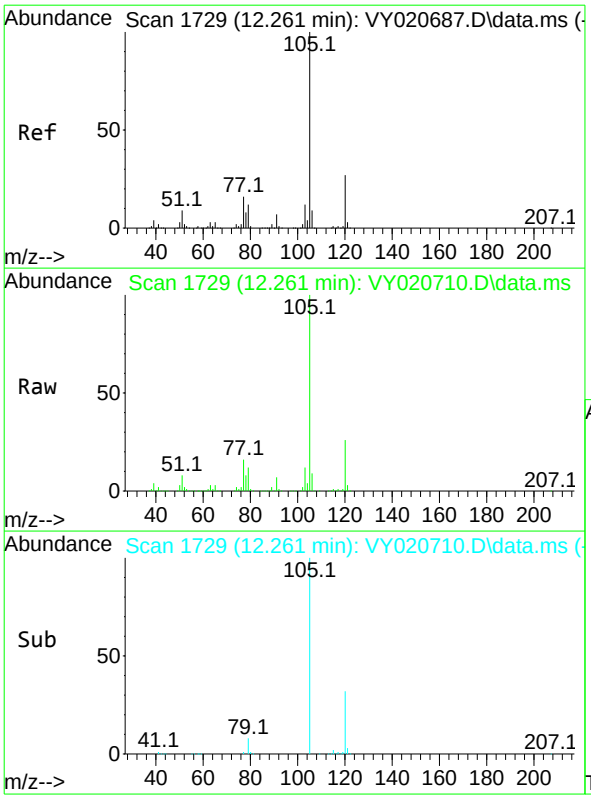



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:152 Resp: 68495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.5 | 30.3 | 90.9 |
| 150 | 205.0 | 0.0 | 349.0 |

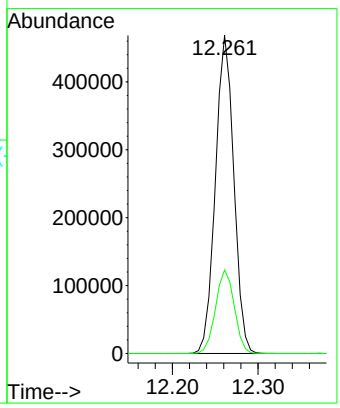





#73
Isopropylbenzene
Concen: 147.320 ug/l
RT: 12.261 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:105 Resp: 699104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.3 | 39.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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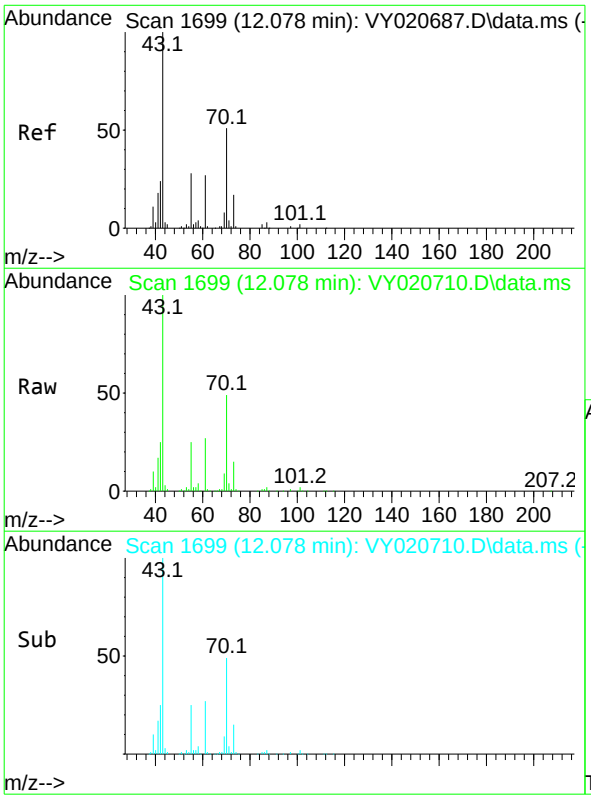
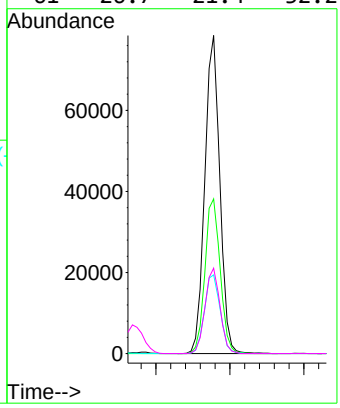
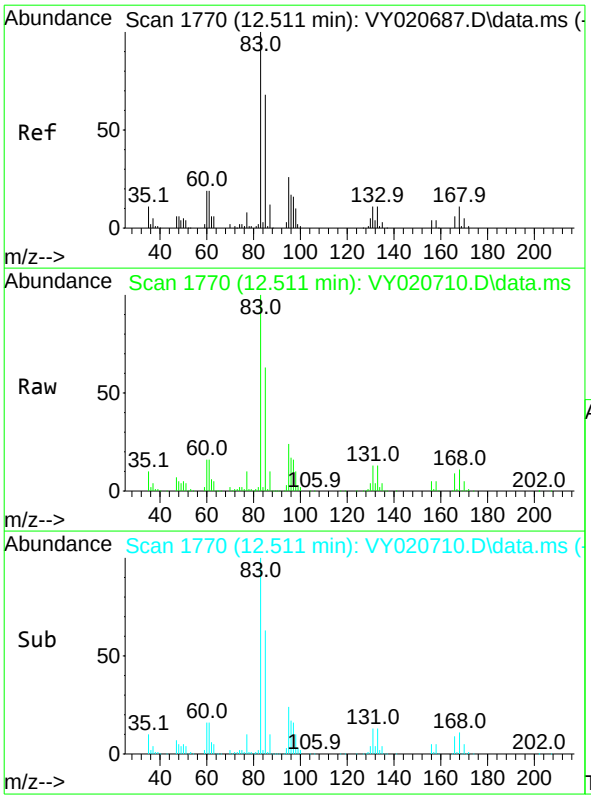



#74
N-amyl acetate
Concen: 164.040 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 110622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.4 | 39.7 | 59.5 |
| 55 | 25.9 | 21.5 | 32.3 |
| 61 | 26.7 | 21.4 | 32.2 |

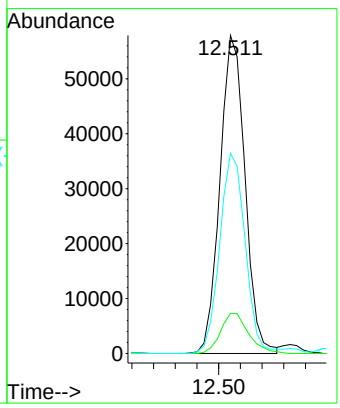





#75
1,1,2,2-Tetrachloroethane
Concen: 152.263 ug/l
RT: 12.511 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 83 Resp: 92629

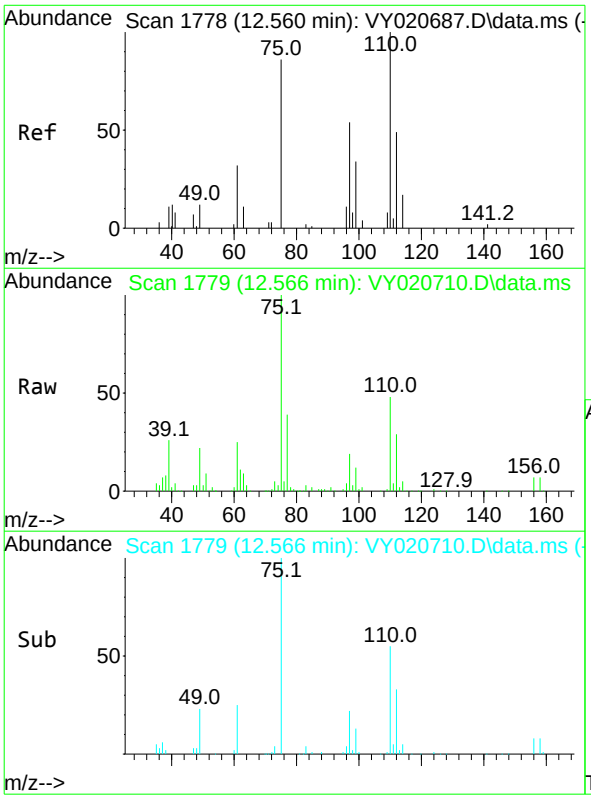
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.2 | 6.9 | 20.7 |
| 85 | 64.0 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

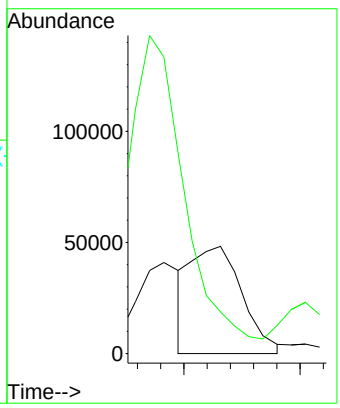
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

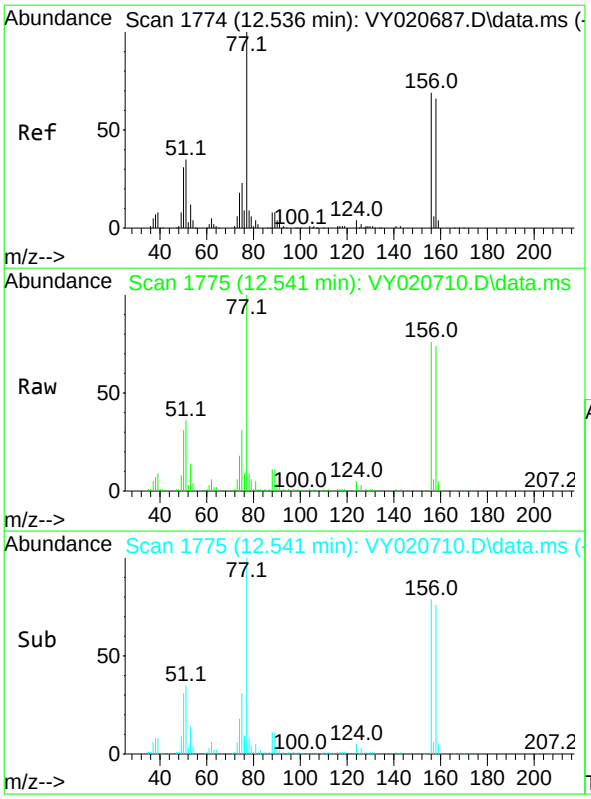



#76
1,2,3-Trichloropropane
Concen: 137.761 ug/l m
RT: 12.566 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 75 Resp: 74431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

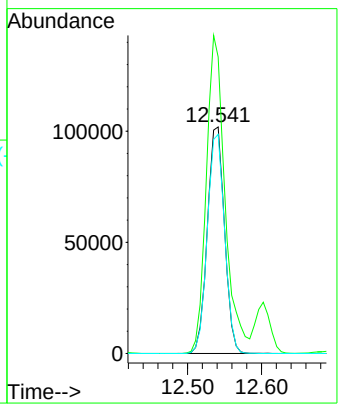





#77
Bromobenzene
Concen: 149.824 ug/l
RT: 12.541 min Scan# 17
Delta R.T. 0.005 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:156 Resp: 163665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 153.7 | 78.3 | 235.0 |
| 158 | 97.6 | 48.3 | 144.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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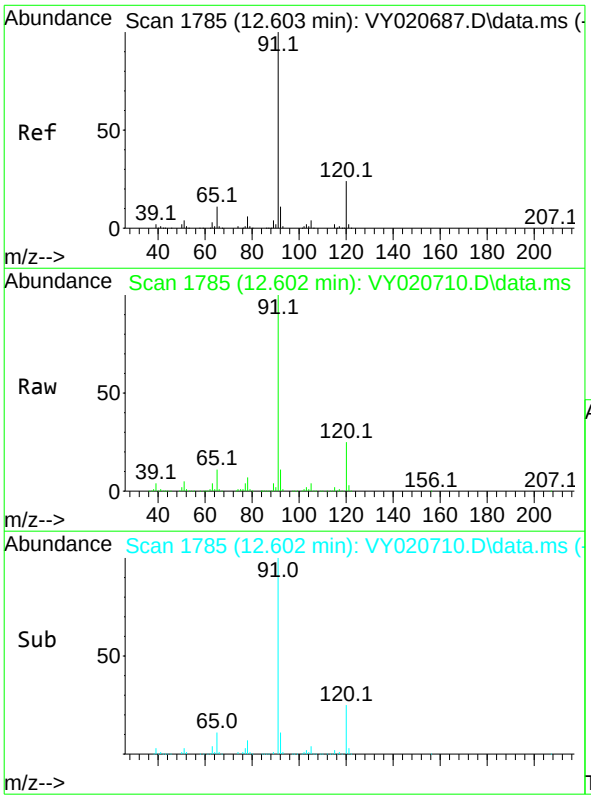
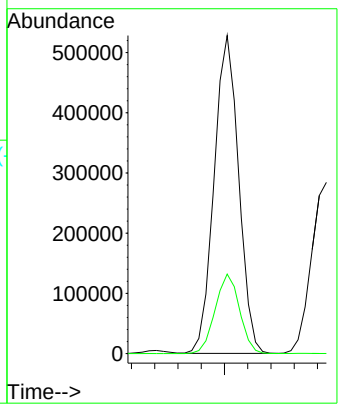
Supervised By :Semsettin Yesilyurt 12/27/2024

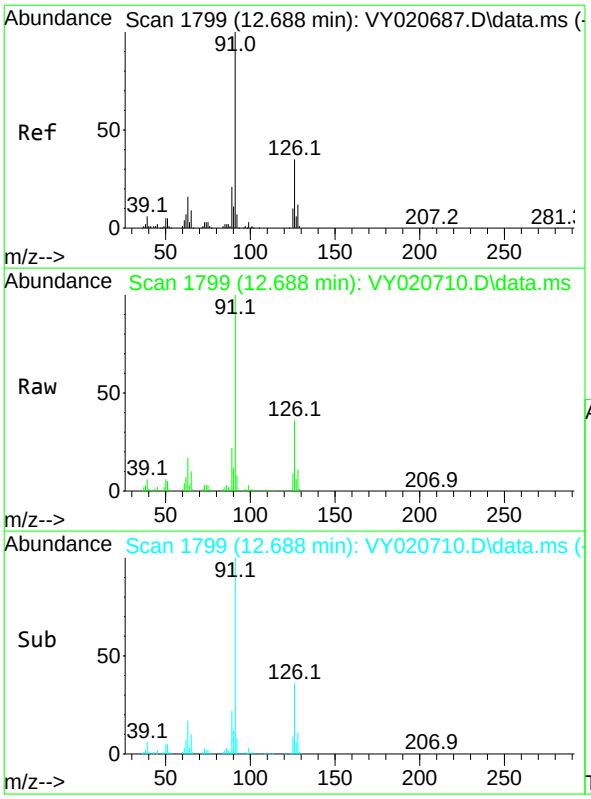



#78
n-propylbenzene
Concen: 145.797 ug/l
RT: 12.602 min Scan# 1785
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 91 Resp: 775459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.8 | 12.3 | 36.8 |

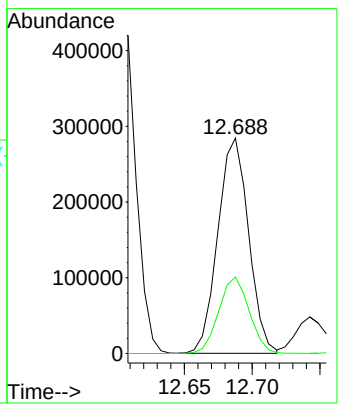





#79
2-Chlorotoluene
Concen: 147.735 ug/l
RT: 12.688 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 91 Resp: 447942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.1 | 17.8 | 53.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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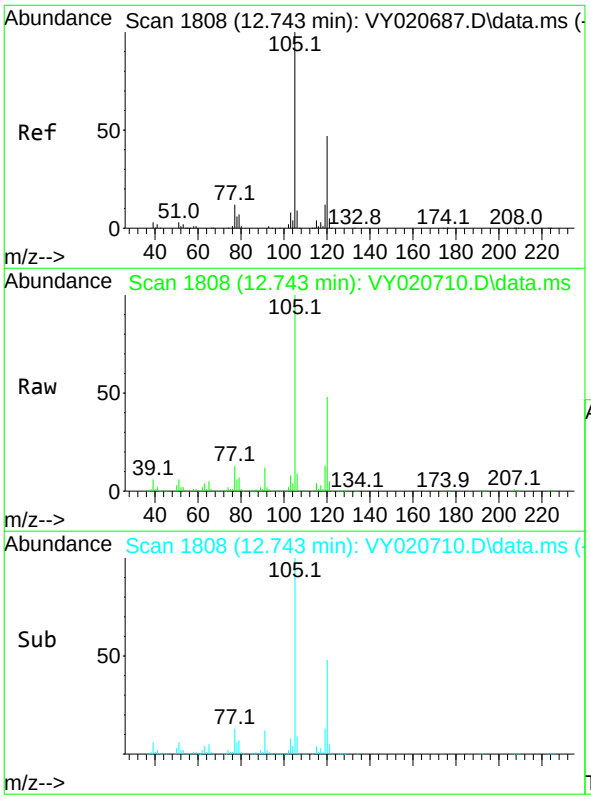
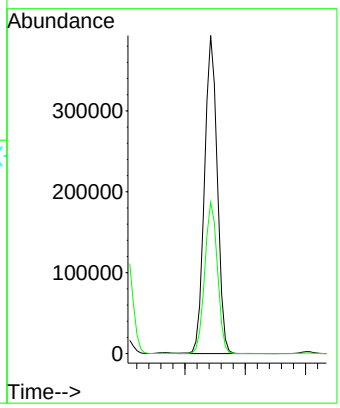
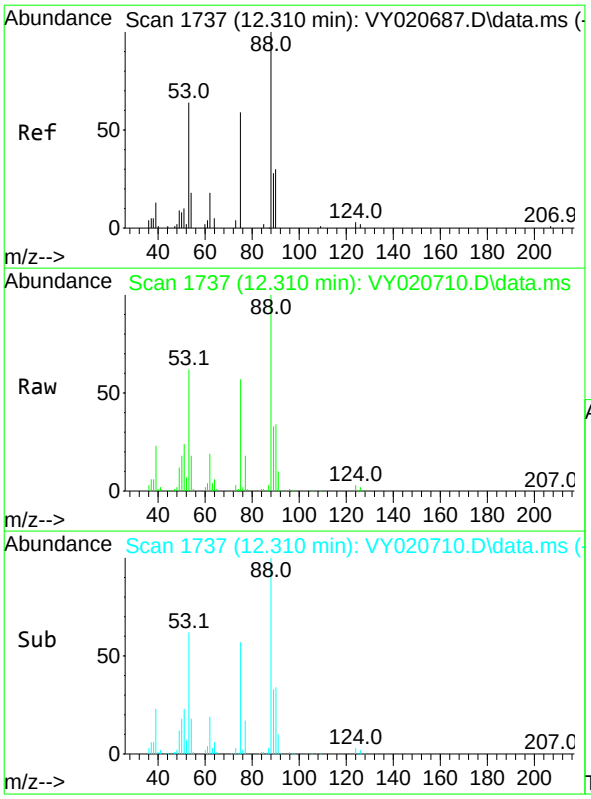



#80
1,3,5-Trimethylbenzene
Concen: 146.144 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:105 Resp: 577812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.4 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 154.104 ug/l
RT: 12.310 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 75 Resp: 33964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 104.7 | 83.1 | 124.7 |
| 89 | 56.3 | 40.6 | 61.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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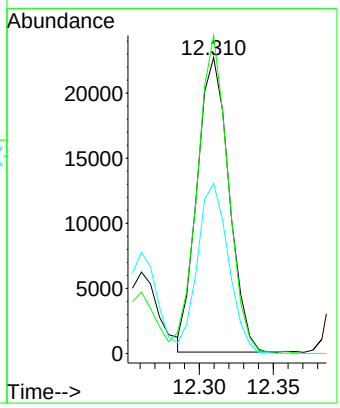
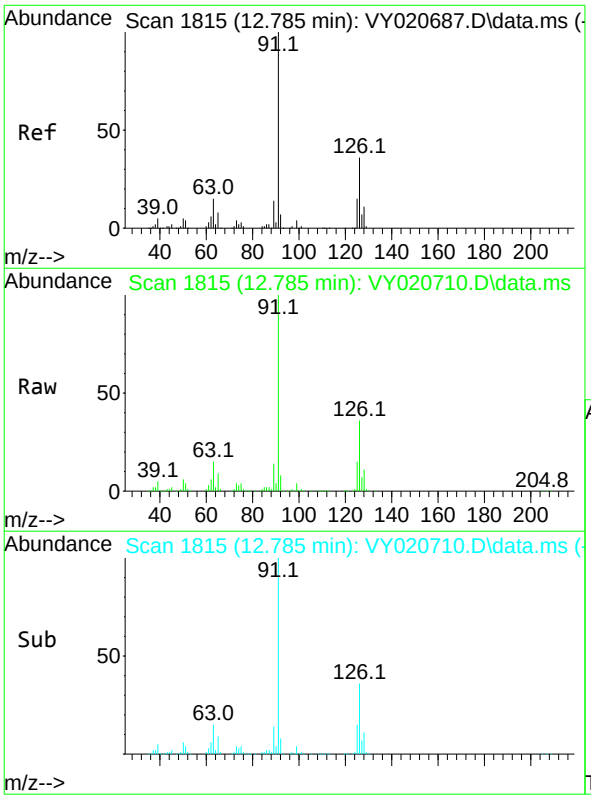
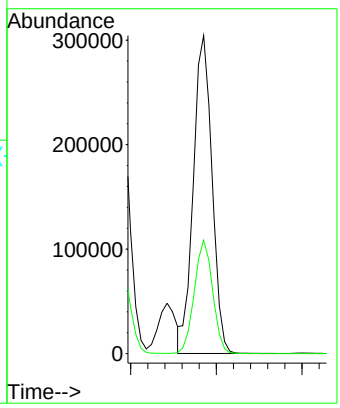


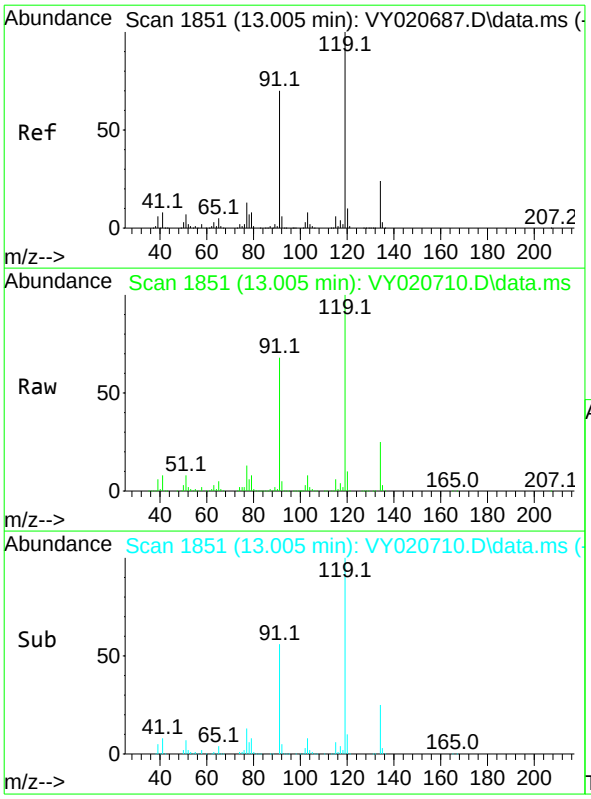




#82
4-Chlorotoluene
Concen: 146.900 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 91 Resp: 460319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.8 | 53.5 |

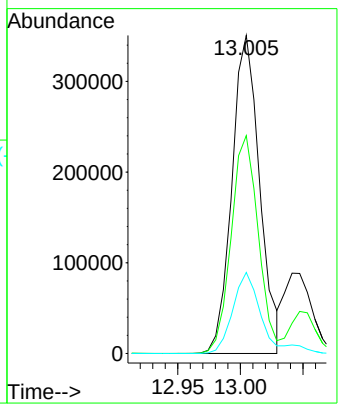





#83
tert-Butylbenzene
Concen: 146.461 ug/l
RT: 13.005 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:119 Resp: 540775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.7 | 33.6 | 100.8 |
| 134 | 26.6 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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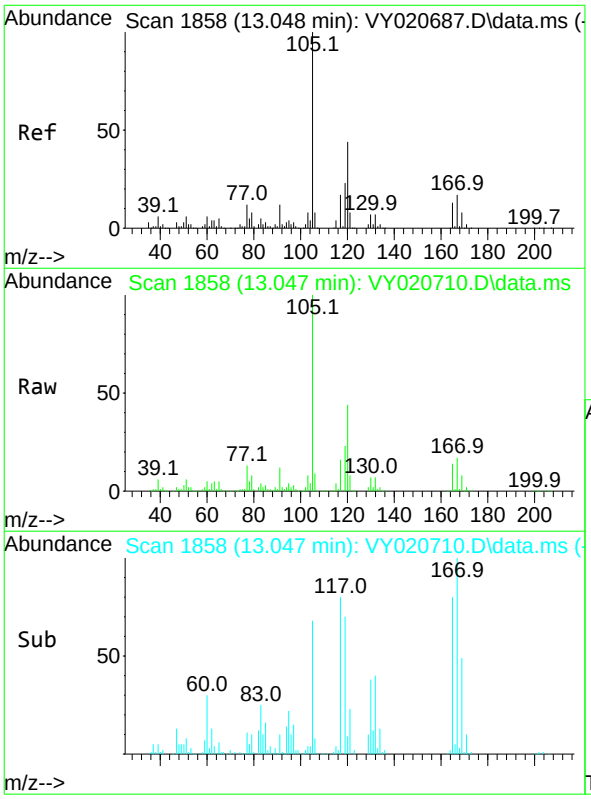
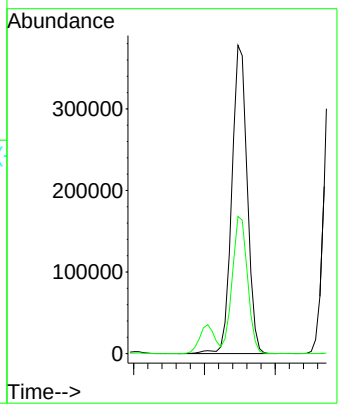
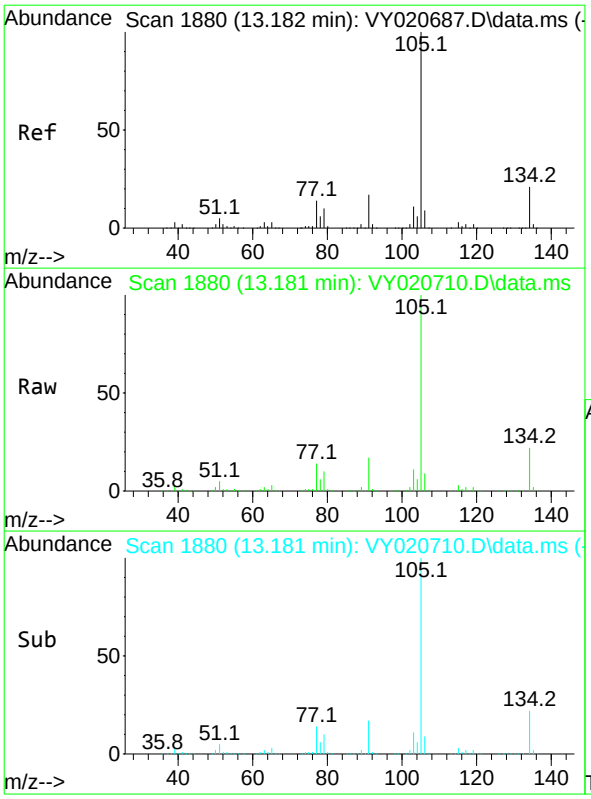



#84
1,2,4-Trimethylbenzene
Concen: 148.302 ug/l
RT: 13.047 min Scan# 1858
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:105 Resp: 570579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.3 | 21.8 | 65.3 |

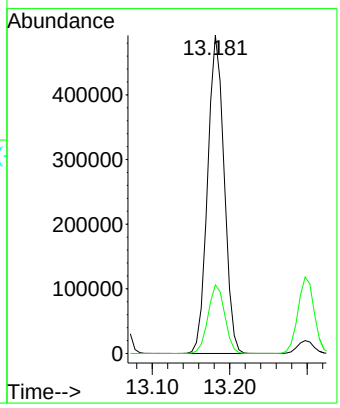





#85
sec-Butylbenzene
Concen: 146.177 ug/l
RT: 13.181 min Scan# 18
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:105 Resp: 727401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.8 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

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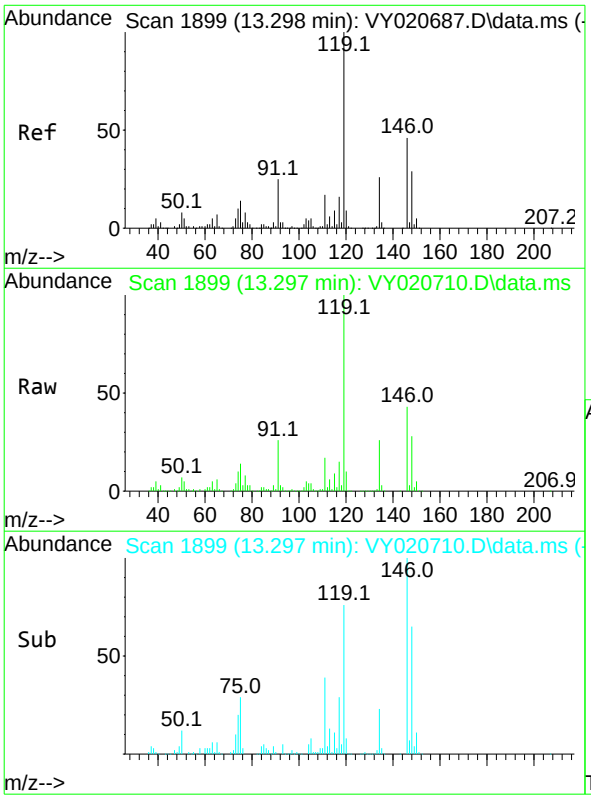
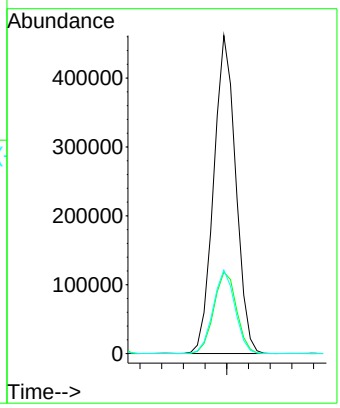
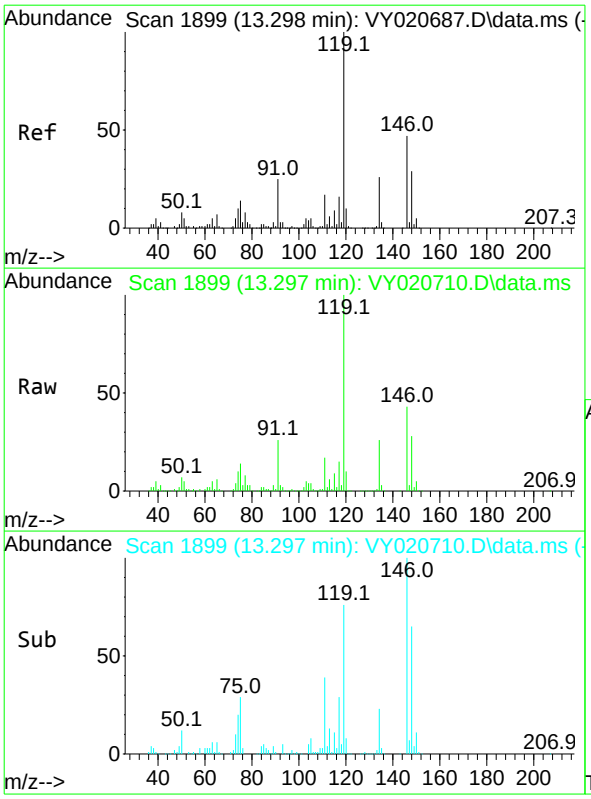



#86
p-Isopropyltoluene
Concen: 147.017 ug/l
RT: 13.297 min Scan# 1899
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:119 Resp: 651978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 13.4 | 40.2 |
| 91 | 25.9 | 12.9 | 38.6 |

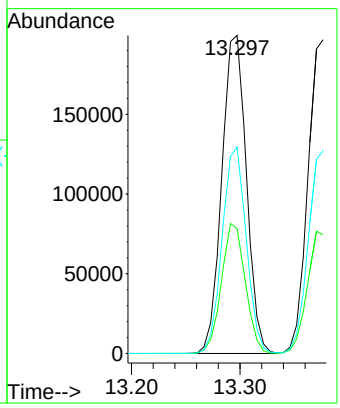





#87
1,3-Dichlorobenzene
Concen: 147.160 ug/l
RT: 13.297 min Scan# 18
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:146 Resp: 314188

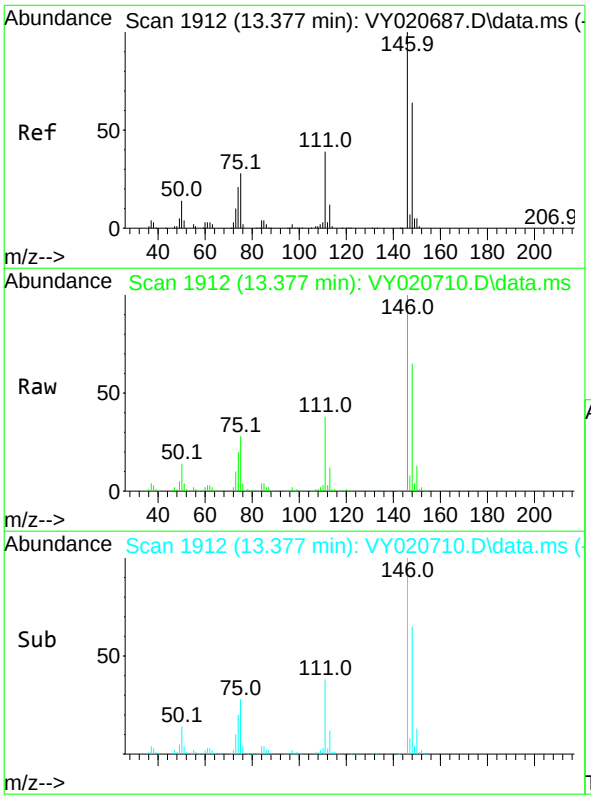
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 19.3 | 57.8 |
| 148 | 63.6 | 31.1 | 93.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

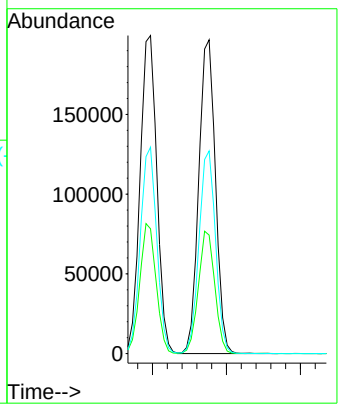
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

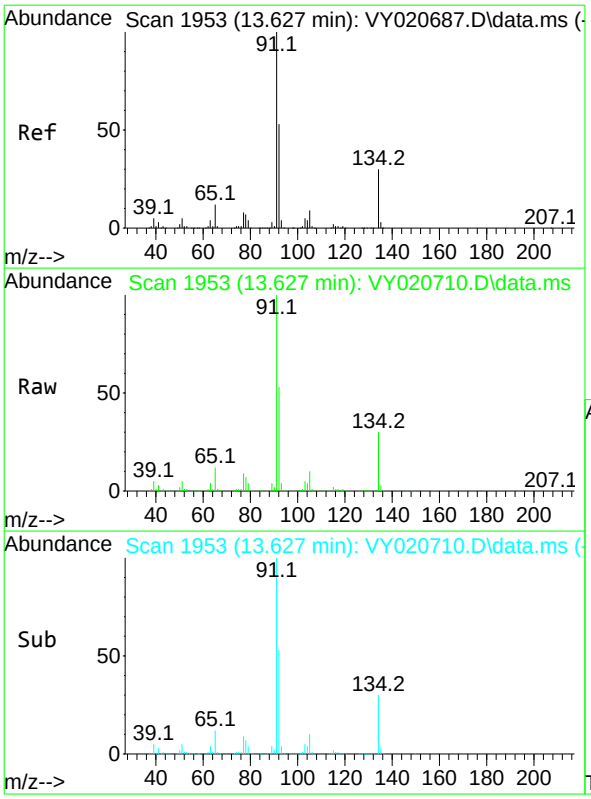



#88
1,4-Dichlorobenzene
Concen: 145.345 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:146 Resp: 308690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.4 | 19.7 | 59.0 |
| 148 | 64.1 | 32.8 | 98.3 |

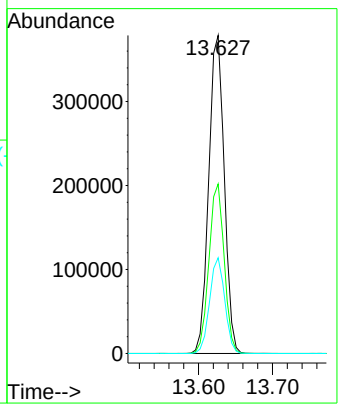





#89
n-Butylbenzene
Concen: 148.927 ug/l
RT: 13.627 min Scan# 19
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 91 Resp: 551311

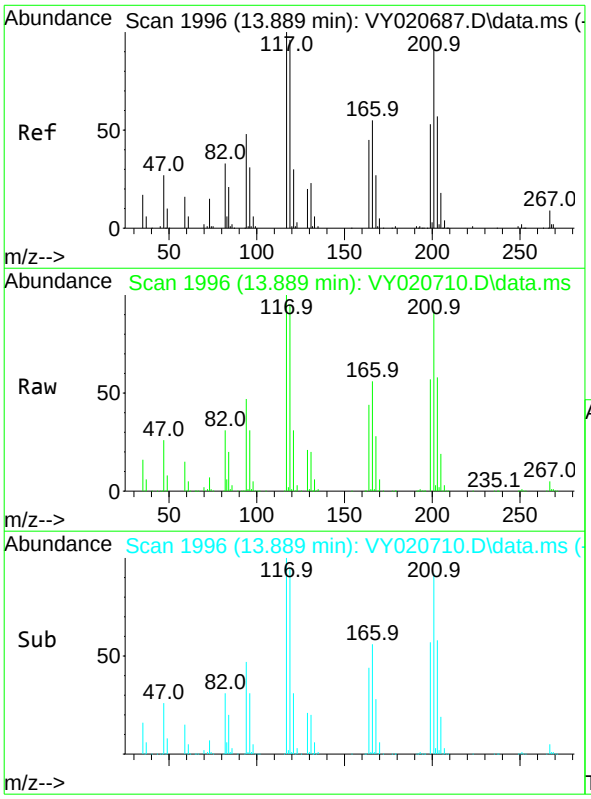
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.4 | 26.1 | 78.2 |
| 134 | 29.4 | 14.8 | 44.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

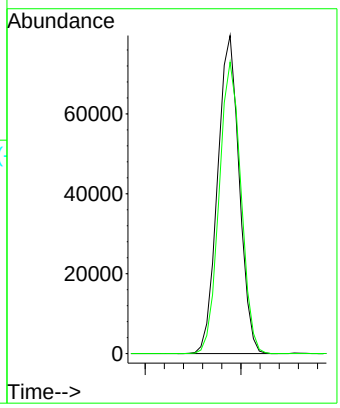
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

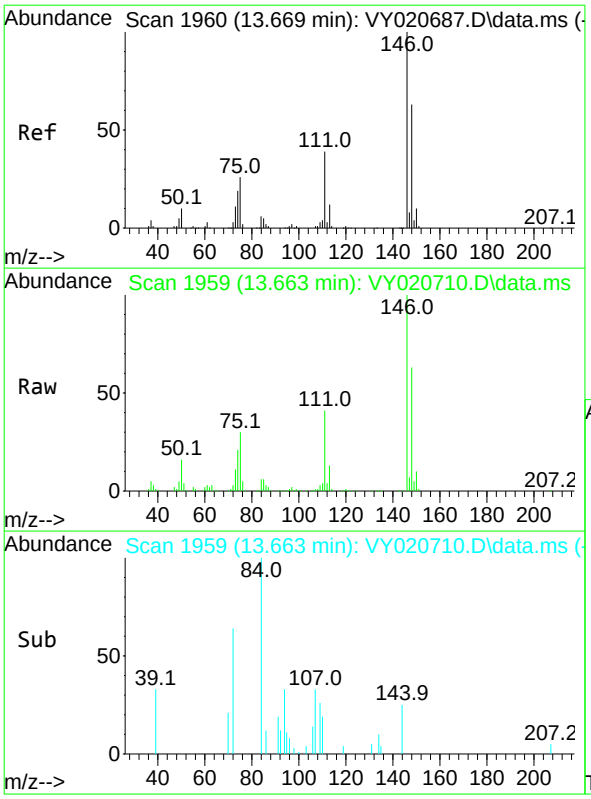



#90
Hexachloroethane
Concen: 148.318 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:117 Resp: 125073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 92.2 | 44.9 | 134.7 |

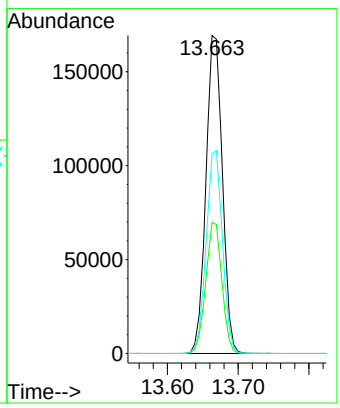





#91
1,2-Dichlorobenzene
Concen: 149.118 ug/l
RT: 13.663 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:146 Resp: 272976

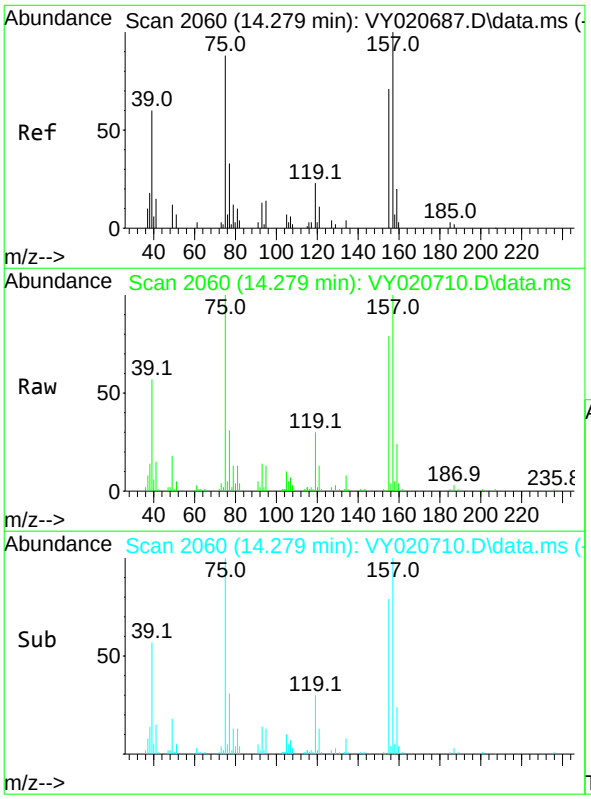
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 20.3 | 60.8 |
| 148 | 63.5 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

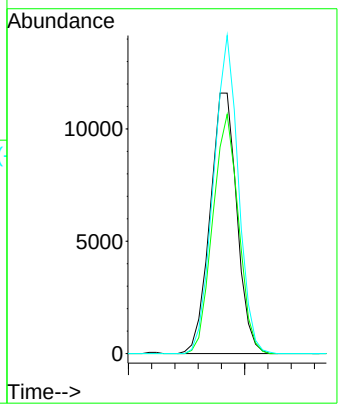
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

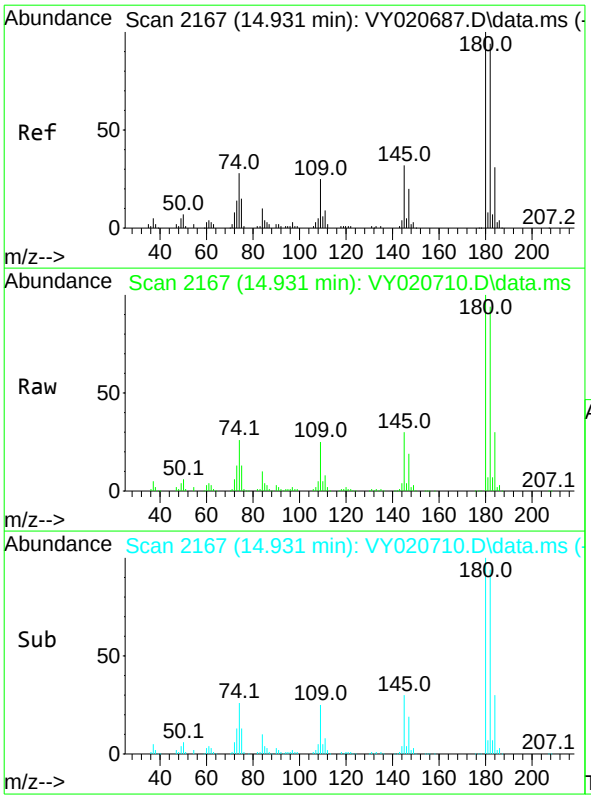



#92
1,2-Dibromo-3-Chloropropane
Concen: 157.429 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 75 Resp: 18575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.9 | 43.4 | 130.2 |
| 157 | 113.0 | 58.6 | 175.7 |

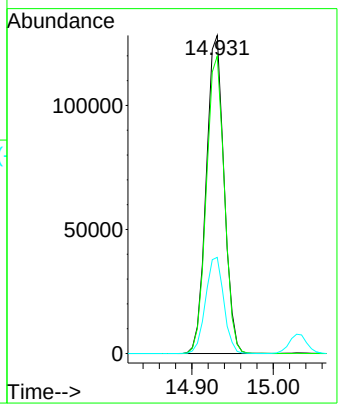





#93
1,2,4-Trichlorobenzene
Concen: 167.268 ug/l
RT: 14.931 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:180 Resp: 194628

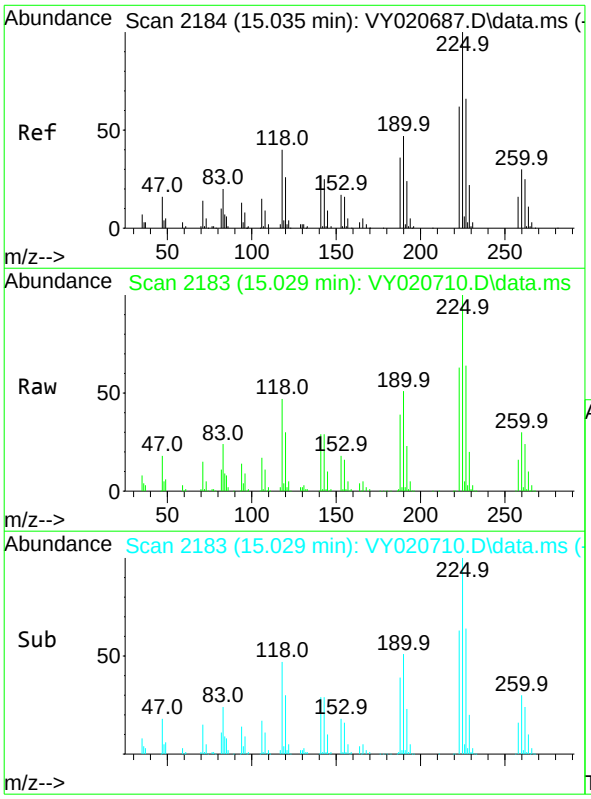
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.5 | 47.9 | 143.7 |
| 145 | 30.9 | 15.6 | 46.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

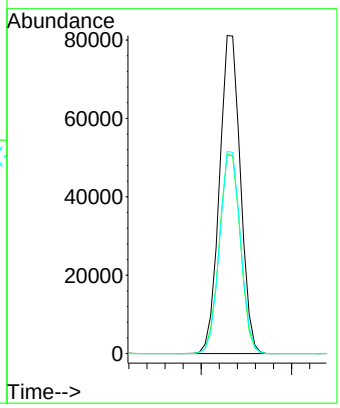
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

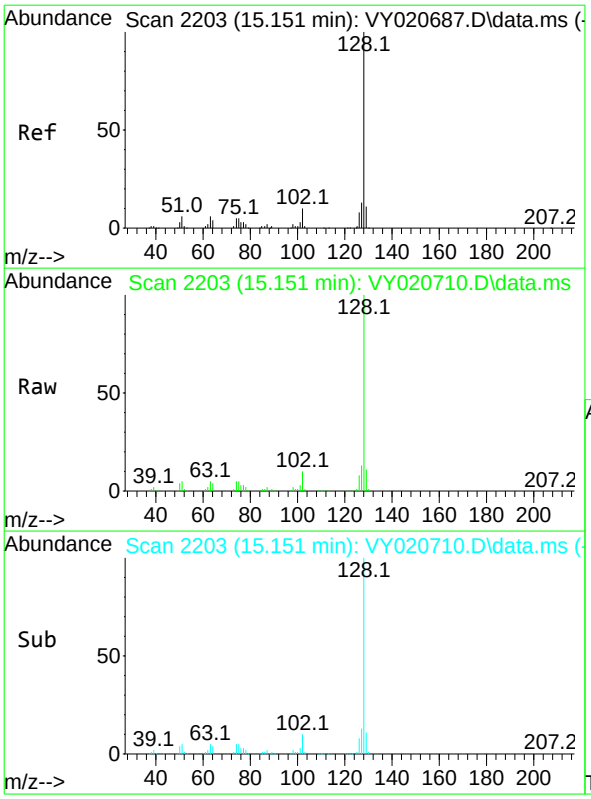



#94
Hexachlorobutadiene
Concen: 153.785 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:225 Resp: 130414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.2 | 31.3 | 93.8 |
| 227 | 63.6 | 32.1 | 96.5 |

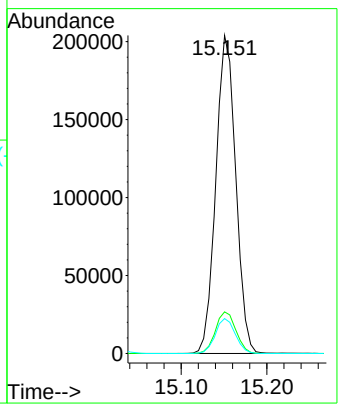





#95
Naphthalene
Concen: 176.838 ug/l
RT: 15.151 min Scan# 22
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:128 Resp: 329555

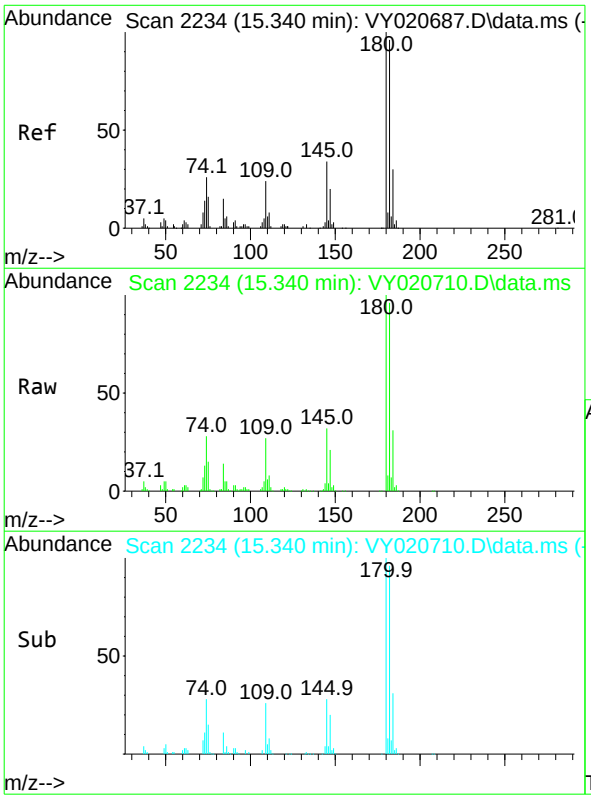
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.7 | 16.1 |
| 129 | 11.0 | 8.6 | 12.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

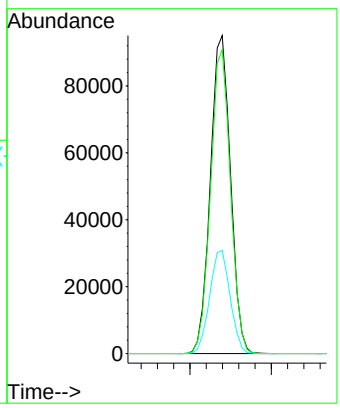
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024




#96
1,2,3-Trichlorobenzene
Concen: 168.727 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:180 Resp: 163465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.2 | 47.4 | 142.2 |
| 145 | 33.0 | 16.7 | 50.1 |



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020711.D
Acq On : 26 Dec 2024 11:51
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:07:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 116833 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 159804 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 137258 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 69727 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 106883 | 111.689 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 223.380%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 98131 | 111.484 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 222.960%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 370174 | 103.831 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 207.660%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 126890 | 108.473 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 216.940%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 89983 | 97.849 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 36325 | 105.914 | ug/l | 97 |
| 4) Vinyl Chloride | 2.214 | 62 | 42335 | 99.628 | ug/l | 99 |
| 5) Bromomethane | 2.605 | 94 | 32346 | 100.819 | ug/l | 92 |
| 6) Chloroethane | 2.745 | 64 | 25930 | 101.721 | ug/l | 92 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 160967 | 98.505 | ug/l | 97 |
| 8) Diethyl Ether | 3.464 | 74 | 40852 | 105.059 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 89952 | 100.269 | ug/l | 98 |
| 10) Methyl Iodide | 4.019 | 142 | 105224 | 107.262 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.872 | 59 | 27117 | 471.856 | ug/l # | 76 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 80482 | 100.793 | ug/l | 98 |
| 13) Acrolein | 3.665 | 56 | 6965 | 348.166 | ug/l | 98 |
| 14) Allyl chloride | 4.397 | 41 | 96335 | 103.097 | ug/l | 97 |
| 15) Acrylonitrile | 5.074 | 53 | 74874 | 498.444 | ug/l | 98 |
| 16) Acetone | 3.879 | 43 | 53244 | 438.581 | ug/l | 99 |
| 17) Carbon Disulfide | 4.116 | 76 | 207648 | 106.011 | ug/l | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 32722 | 99.589 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 222187 | 99.833 | ug/l | 100 |
| 20) Methylene Chloride | 4.629 | 84 | 78882 | 99.904 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 88224 | 102.532 | ug/l | 97 |
| 22) Diisopropyl ether | 6.037 | 45 | 191362 | 100.743 | ug/l | 97 |
| 23) Vinyl Acetate | 5.976 | 43 | 574176 | 506.073 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 144777 | 101.659 | ug/l | 99 |
| 25) 2-Butanone | 6.903 | 43 | 78288 | 477.386 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 169441 | 97.206 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.903 | 96 | 104390 | 101.307 | ug/l | 97 |
| 28) Bromochloromethane | 7.256 | 49 | 42948 | 114.037 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.274 | 42 | 48175 | 478.582 | ug/l | 94 |
| 30) Chloroform | 7.433 | 83 | 178101 | 97.216 | ug/l | 97 |
| 31) Cyclohexane | 7.713 | 56 | 111954 | 91.072 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 194164 | 98.873 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 118213 | 101.669 | ug/l | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 37453 | 97.751 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 193743 | 101.190 | ug/l | 98 |
| 39) Methylcyclohexane | 9.116 | 83 | 151388 | 101.582 | ug/l | 96 |
| 40) Benzene | 8.091 | 78 | 346286 | 102.763 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020711.D
Acq On : 26 Dec 2024 11:51
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Dec 26 16:07:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 20832 | 107.636 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 111130 | 102.849 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 83521 | 102.557 | ug/l | # | 86 |
| 44) Trichloroethene | 8.872 | 130 | 101237 | 100.585 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 67508 | 98.968 | ug/l | | 98 |
| 46) Dibromomethane | 9.238 | 93 | 47179 | 99.962 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.427 | 83 | 134627 | 100.613 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.225 | 41 | 39672 | 104.314 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.244 | 88 | 9130 | 2030.846 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 194141 | 493.895 | ug/l | | 99 |
| 52) Toluene | 10.176 | 92 | 236867 | 102.558 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 123413 | 105.012 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 132154 | 102.590 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 60063 | 99.697 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.445 | 69 | 82573 | 104.330 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 100785 | 103.074 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 151207 | 547.868 | ug/l | | 99 |
| 59) 2-Hexanone | 10.768 | 43 | 132885 | 512.015 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.920 | 129 | 99612 | 102.326 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 56939 | 100.443 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.652 | 164 | 95043 | 101.351 | ug/l | | 97 |
| 65) Chlorobenzene | 11.451 | 112 | 270485 | 100.641 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 105235 | 101.066 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 478506 | 101.867 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 366100 | 204.314 | ug/l | | 100 |
| 69) o-Xylene | 11.963 | 106 | 173536 | 101.366 | ug/l | | 99 |
| 70) Styrene | 11.975 | 104 | 294999 | 102.647 | ug/l | | 99 |
| 71) Bromoform | 12.139 | 173 | 60872 | 101.685 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 484532 | 100.300 | ug/l | | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 72233 | 105.221 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 60116 | 97.073 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 39557m | 71.921 | ug/l | | |
| 77) Bromobenzene | 12.542 | 156 | 112291 | 100.978 | ug/l | | 97 |
| 78) n-propylbenzene | 12.603 | 91 | 544130 | 100.496 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 310413 | 100.568 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 404786 | 100.572 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 23063 | 102.794 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 322204 | 101.007 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 374773 | 99.709 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 399805 | 102.079 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.182 | 105 | 509425 | 100.564 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 454433 | 100.661 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 220131 | 101.283 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 216013 | 99.911 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 384958 | 102.152 | ug/l | | 100 |
| 90) Hexachloroethane | 13.889 | 117 | 87162 | 101.535 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 187803 | 100.778 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 12047 | 100.298 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 131697 | 111.184 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 91705 | 106.228 | ug/l | | 98 |
| 95) Naphthalene | 15.151 | 128 | 210953 | 111.196 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 109793 | 111.325 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020711.D
Acq On : 26 Dec 2024 11:51
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:07:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

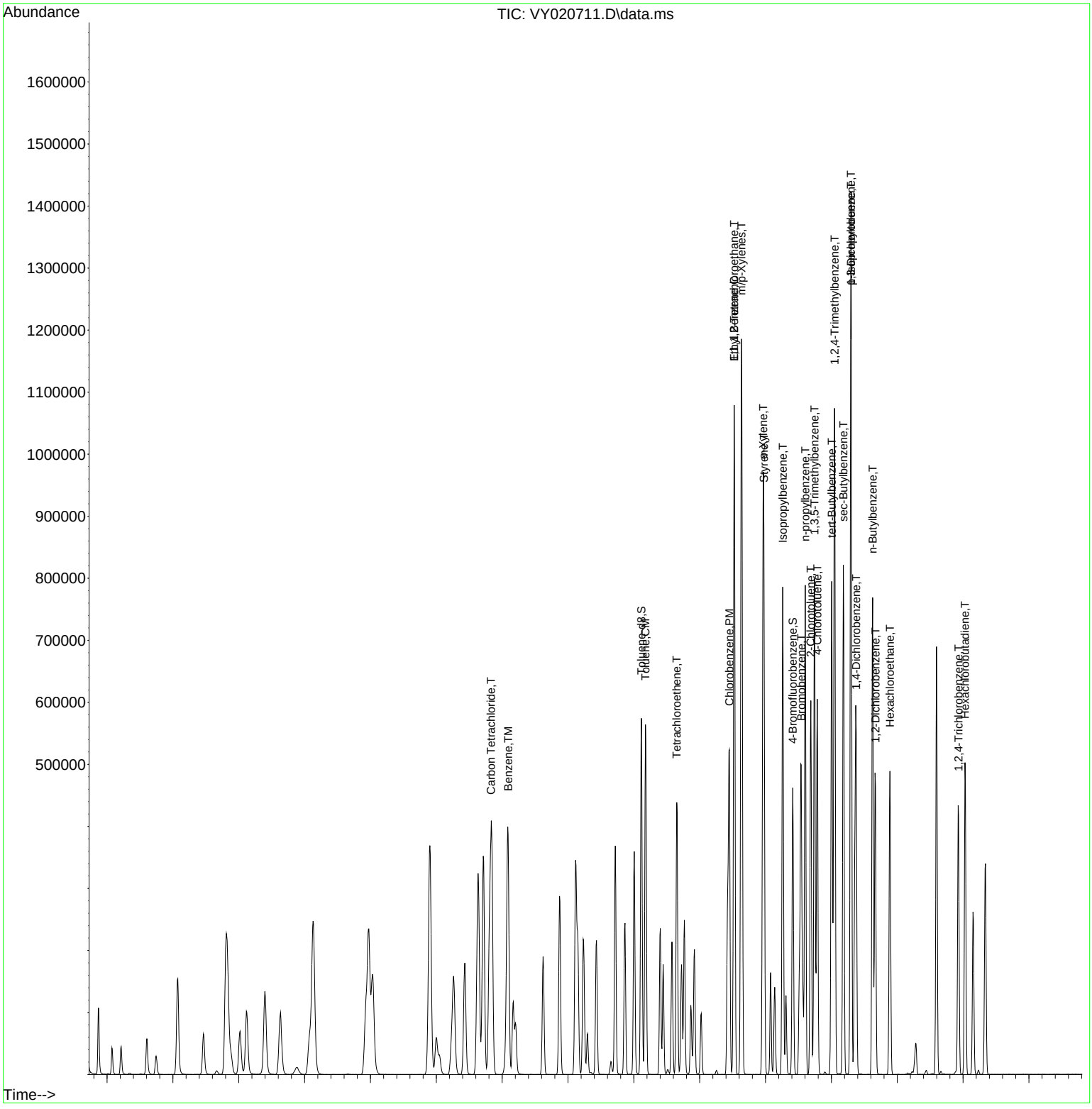
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020711.D
Acq On : 26 Dec 2024 11:51
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

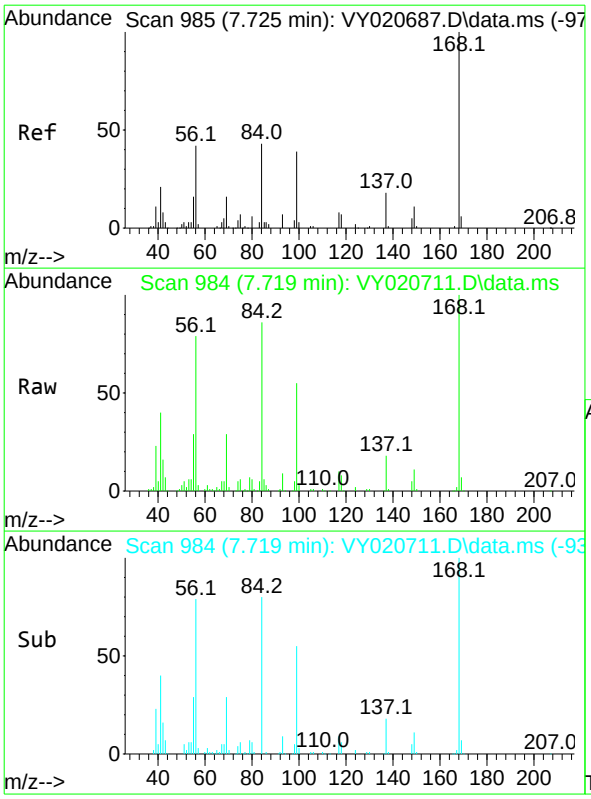
Quant Time: Dec 26 16:07:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

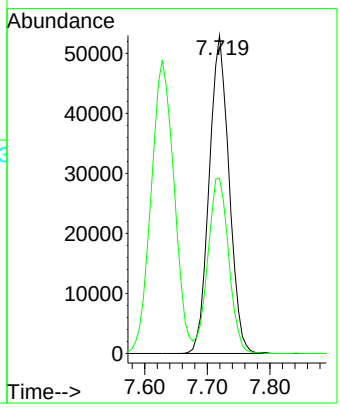





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:168 Resp: 116833

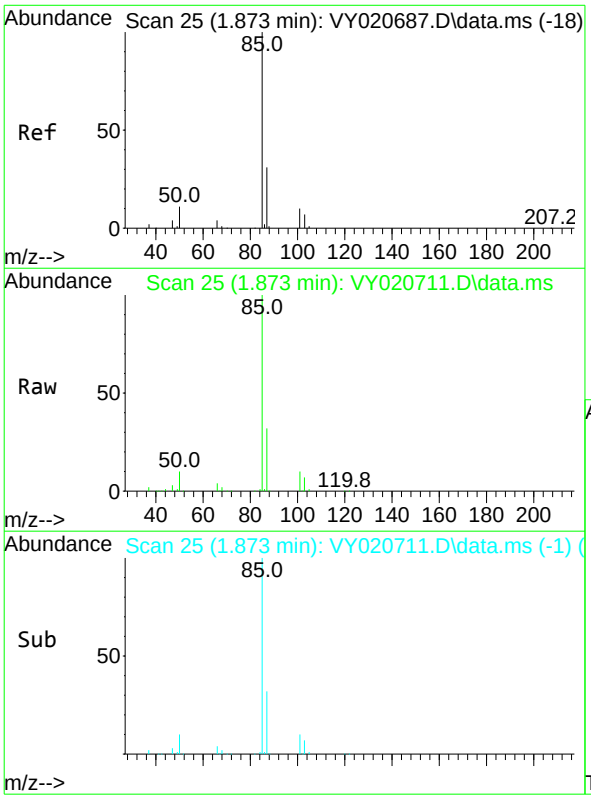
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.1 | 43.8 | 65.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

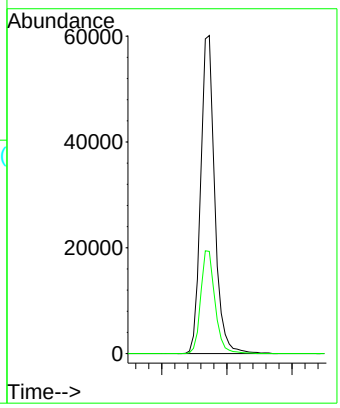
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

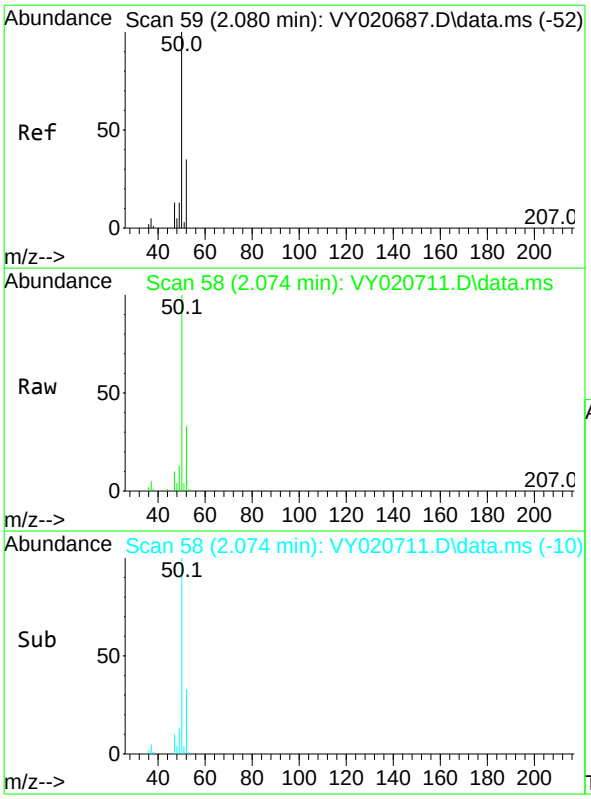



#2
Dichlorodifluoromethane
Concen: 97.849 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 85 Resp: 89983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.1 | 15.4 | 46.4 |

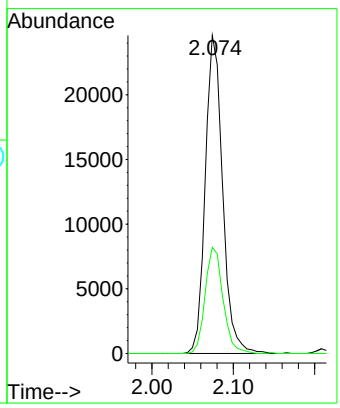





#3
Chloromethane
Concen: 105.914 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 50 Resp: 36325

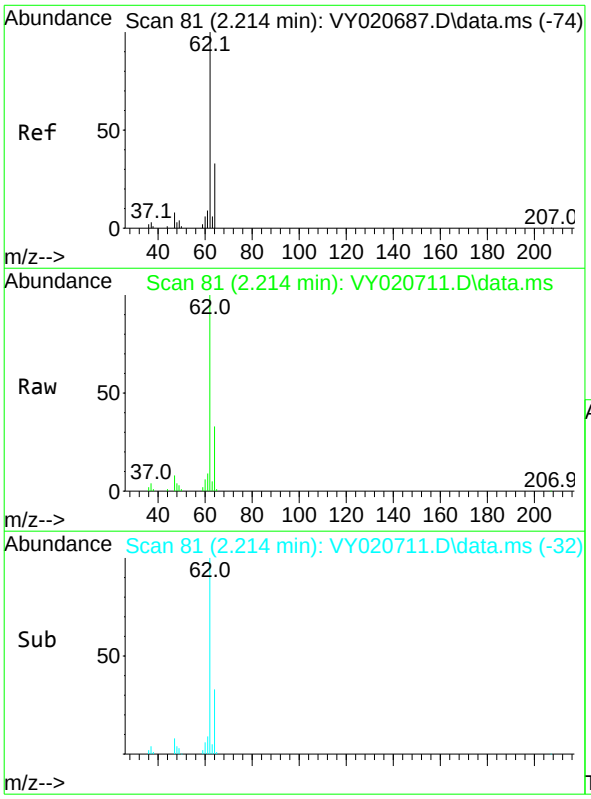
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.4 | 28.2 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

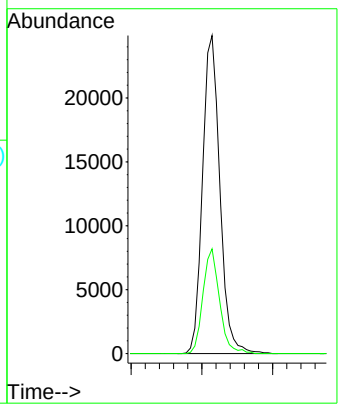
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

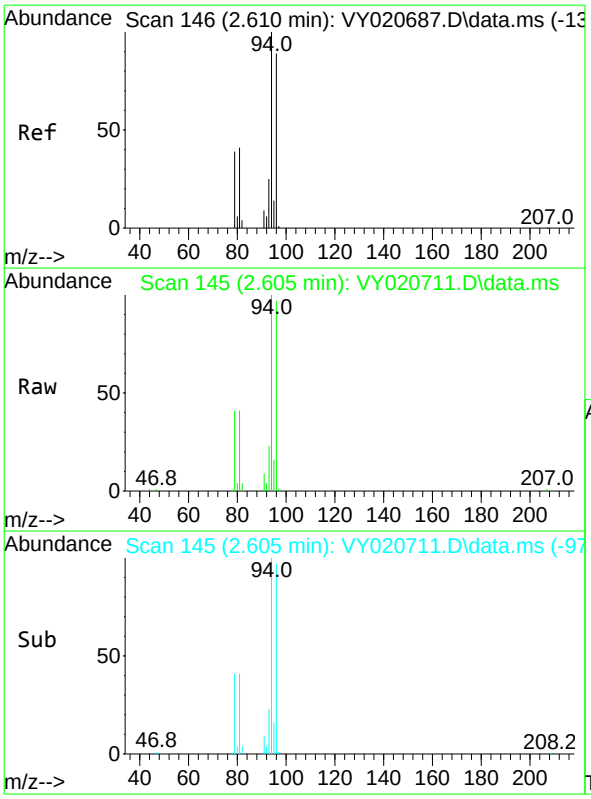



#4
Vinyl Chloride
Concen: 99.628 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 62 Resp: 42335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.9 | 26.6 | 40.0 |

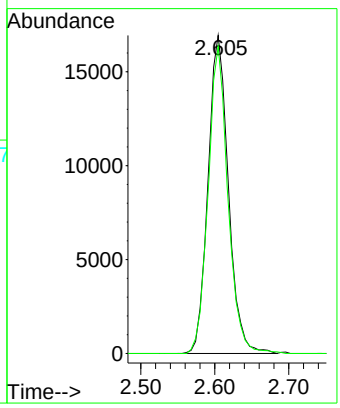





#5
Bromomethane
Concen: 100.819 ug/l
RT: 2.605 min Scan# 14
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 94 Resp: 32346

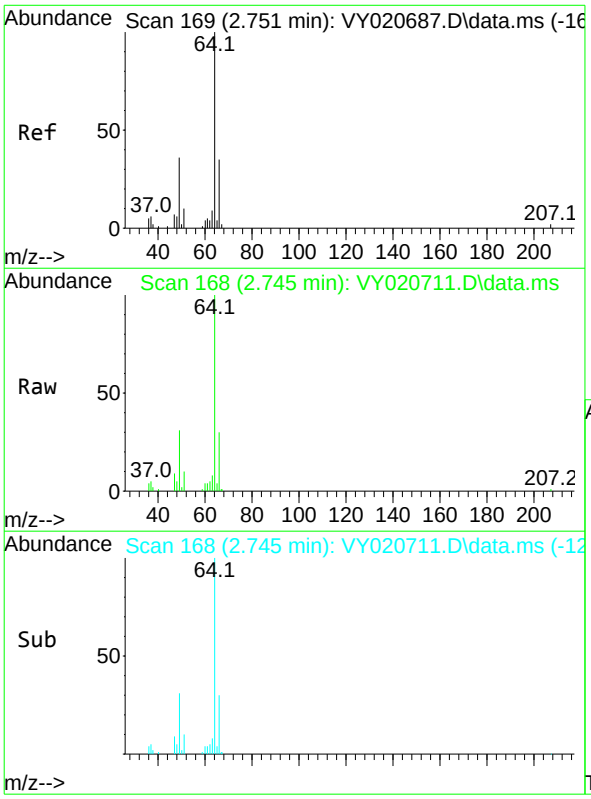
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.5 | 71.0 | 106.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

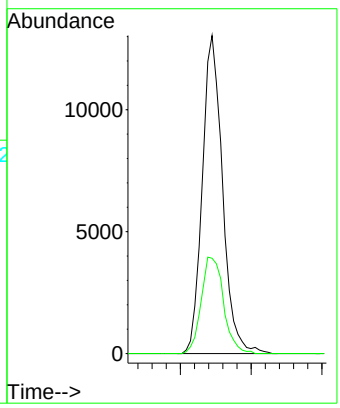
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

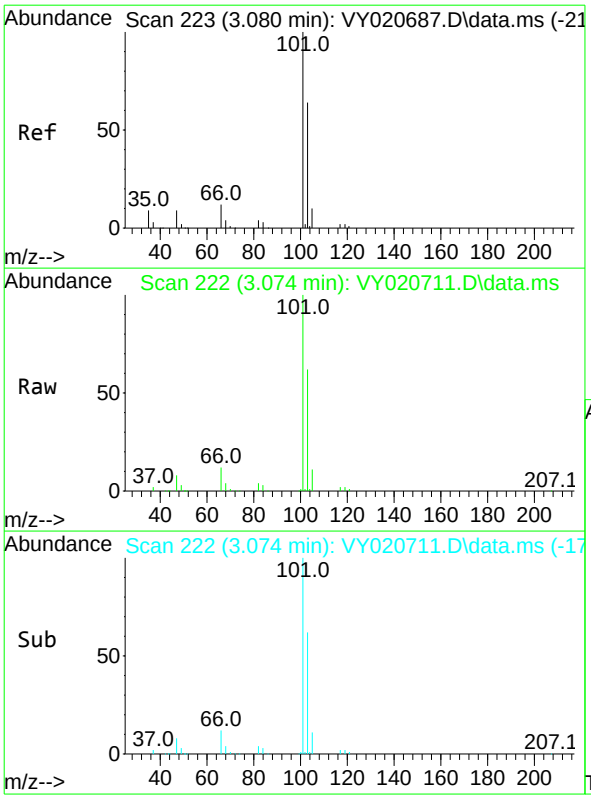



#6
Chloroethane
Concen: 101.721 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 64 Resp: 25930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.0 | 27.8 | 41.8 |

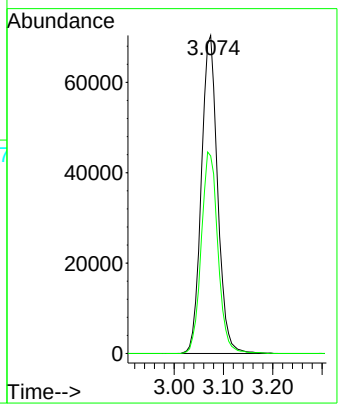





#7
Trichlorofluoromethane
Concen: 98.505 ug/l
RT: 3.074 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:101 Resp: 160967

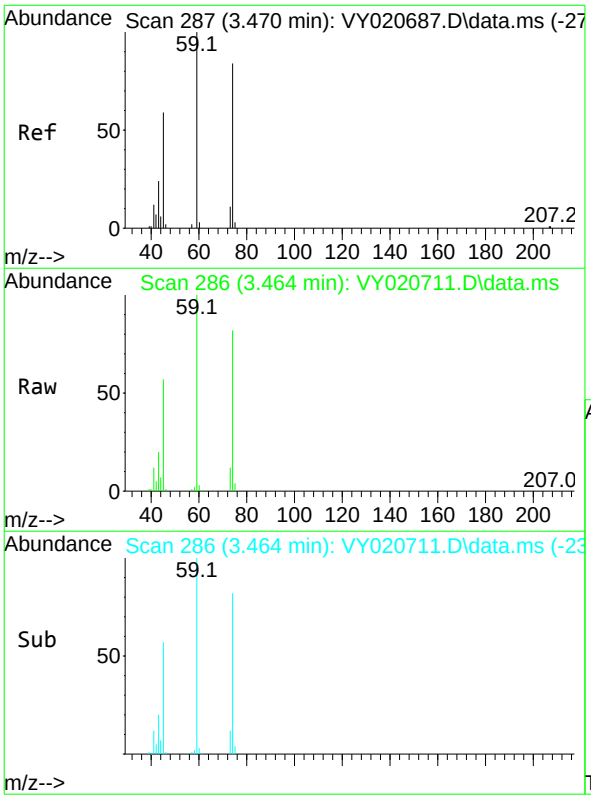
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.1 | 51.4 | 77.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

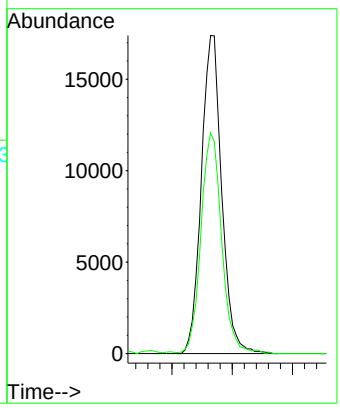
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

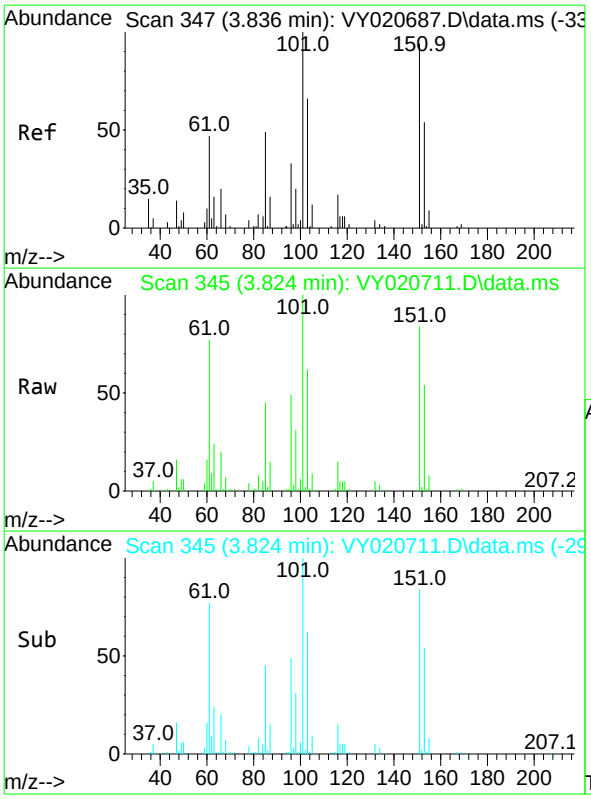



#8
Diethyl Ether
Concen: 105.059 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 74 Resp: 40852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 70.5 | 35.8 | 107.4 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 100.269 ug/l
RT: 3.824 min Scan# 34
Delta R.T. -0.012 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

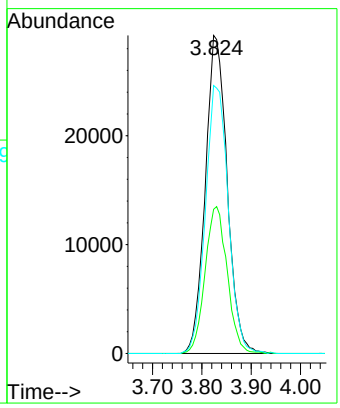
Tgt Ion:101 Resp: 89952

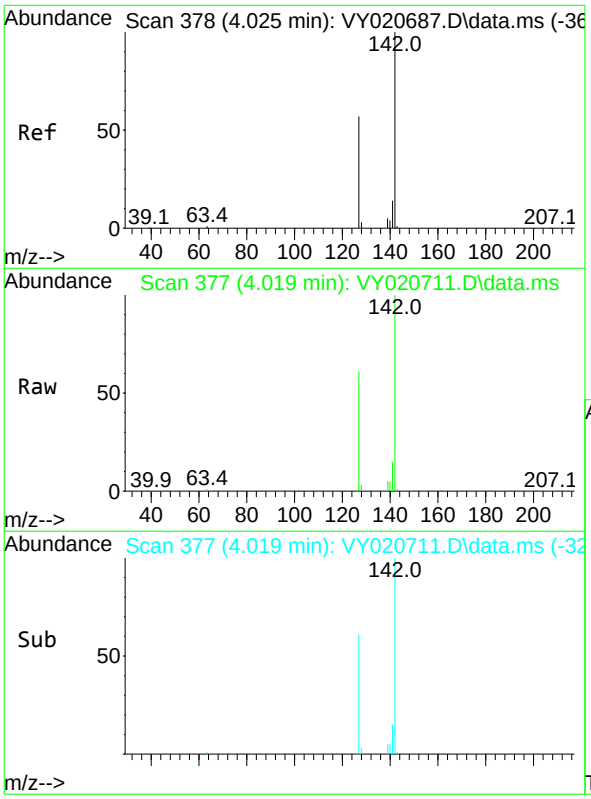
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.8 | 38.2 | 57.2 |
| 151 | 87.9 | 68.4 | 102.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

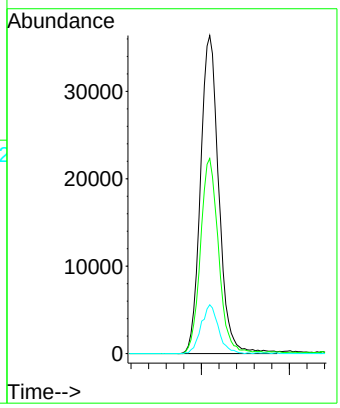


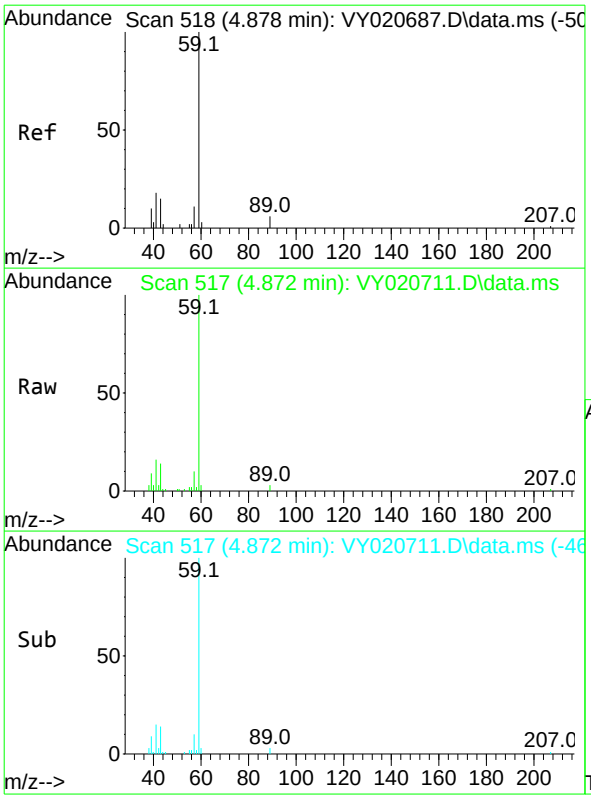




#10
Methyl Iodide
Concen: 107.262 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:142 Resp: 105224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 60.4 | 48.8 | 73.2 |
| 141 | 14.6 | 11.9 | 17.9 |

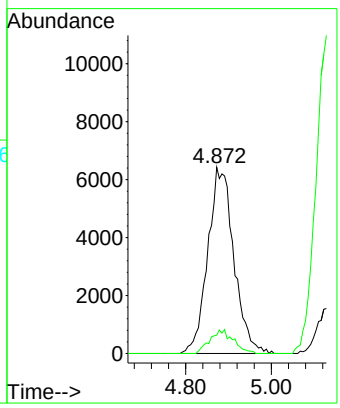





#11
Tert butyl alcohol
Concen: 471.856 ug/l
RT: 4.872 min Scan# 51
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 59 Resp: 27117

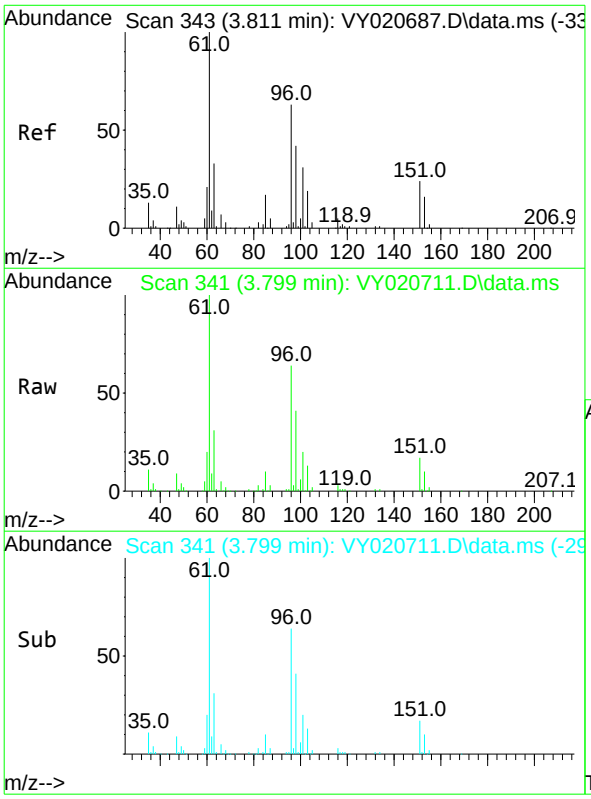
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.5 | 2.8 | 4.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

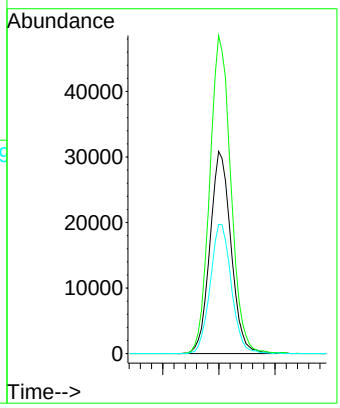
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

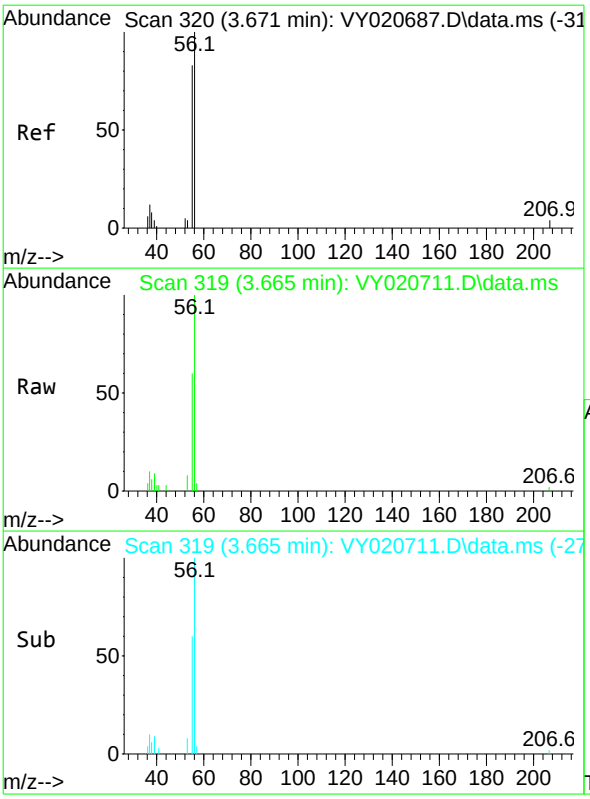



#12
1,1-Dichloroethene
Concen: 100.793 ug/l
RT: 3.799 min Scan# 341
Delta R.T. -0.012 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 96 Resp: 80482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 157.3 | 127.1 | 190.7 |
| 98 | 63.9 | 53.4 | 80.0 |

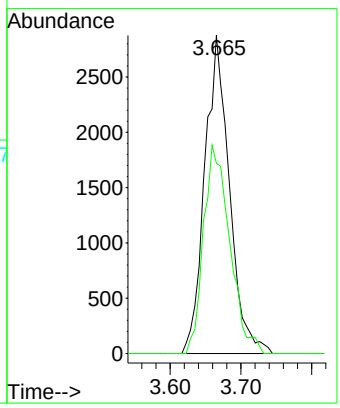





#13
Acrolein
Concen: 348.166 ug/l
RT: 3.665 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 56 Resp: 6965

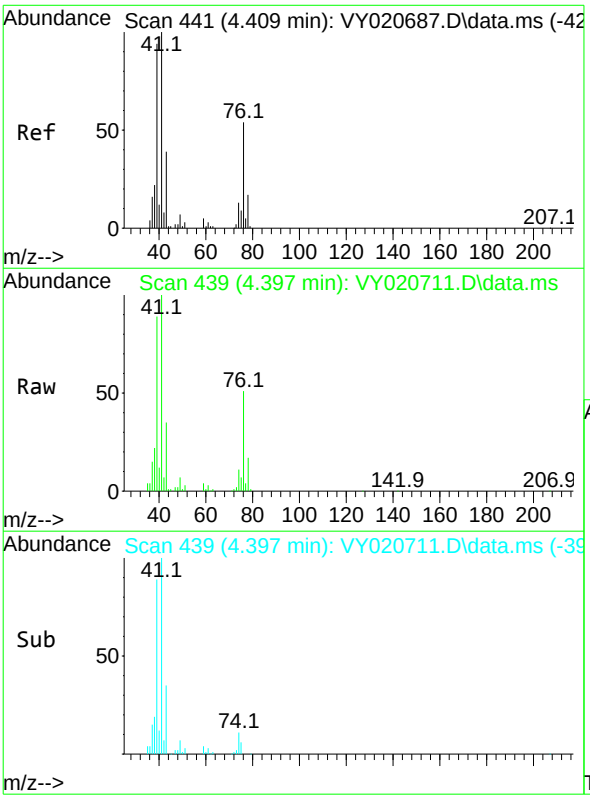
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.7 | 57.0 | 85.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

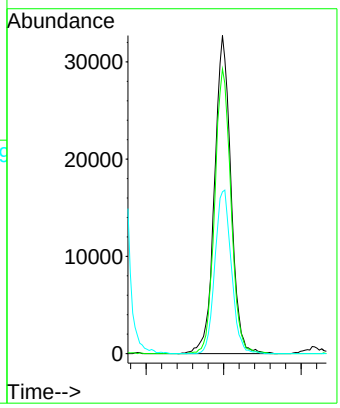
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

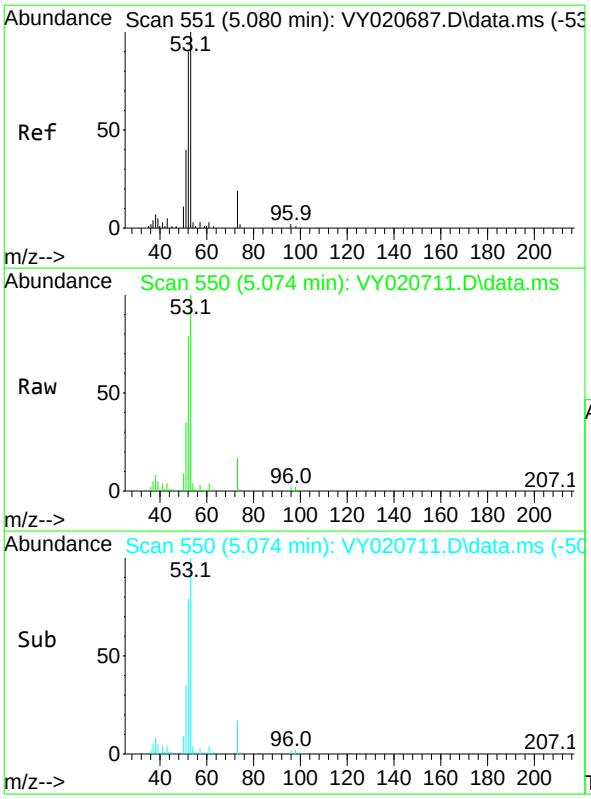



#14
Allyl chloride
Concen: 103.097 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.012 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 41 Resp: 96335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 88.3 | 73.5 | 110.3 |
| 76 | 51.2 | 41.8 | 62.8 |

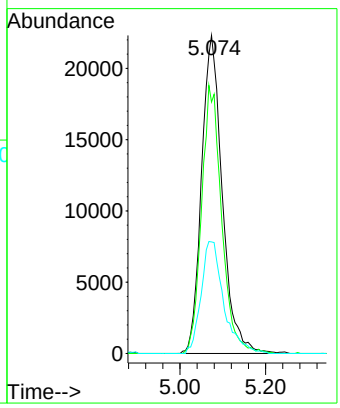





#15
Acrylonitrile
Concen: 498.444 ug/l
RT: 5.074 min Scan# 55
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 53 Resp: 74874

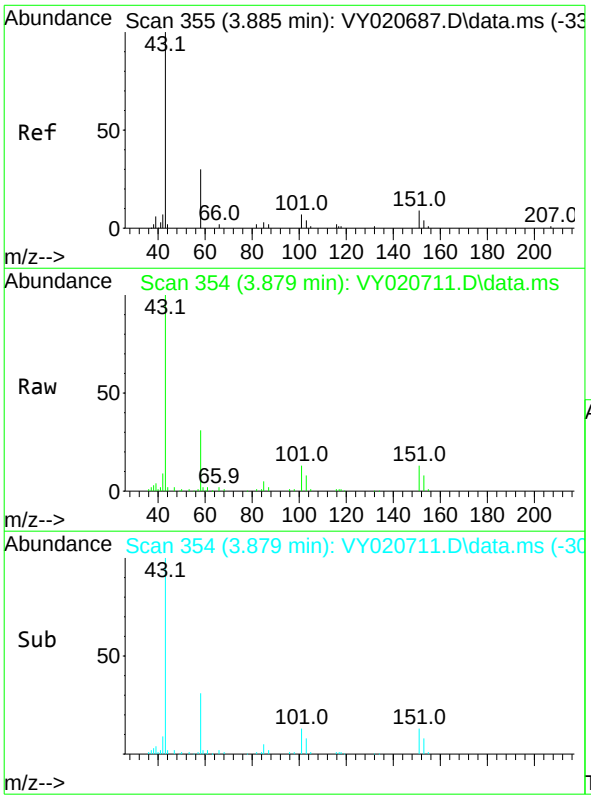
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.8 | 67.1 | 100.7 |
| 51 | 38.6 | 31.4 | 47.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

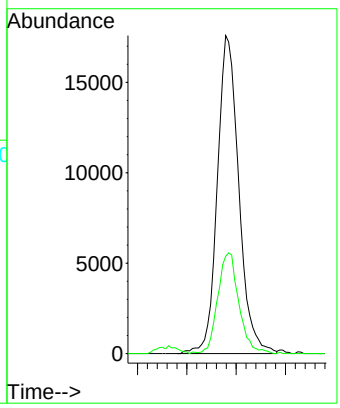
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

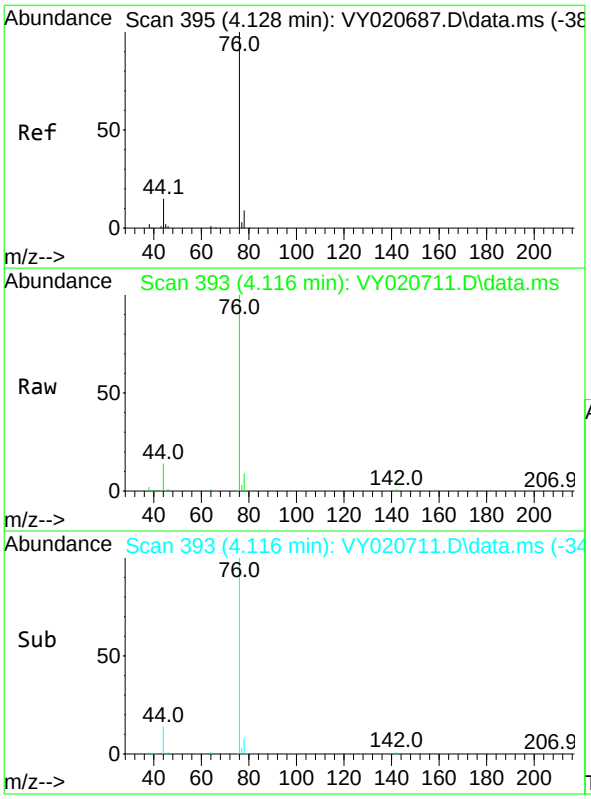



#16
Acetone
Concen: 438.581 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 53244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.6 | 25.0 | 37.6 |

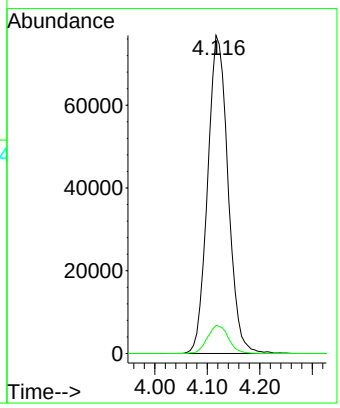





#17
Carbon Disulfide
Concen: 106.011 ug/l
RT: 4.116 min Scan# 39
Delta R.T. -0.012 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 76 Resp: 207648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 6.9 | 10.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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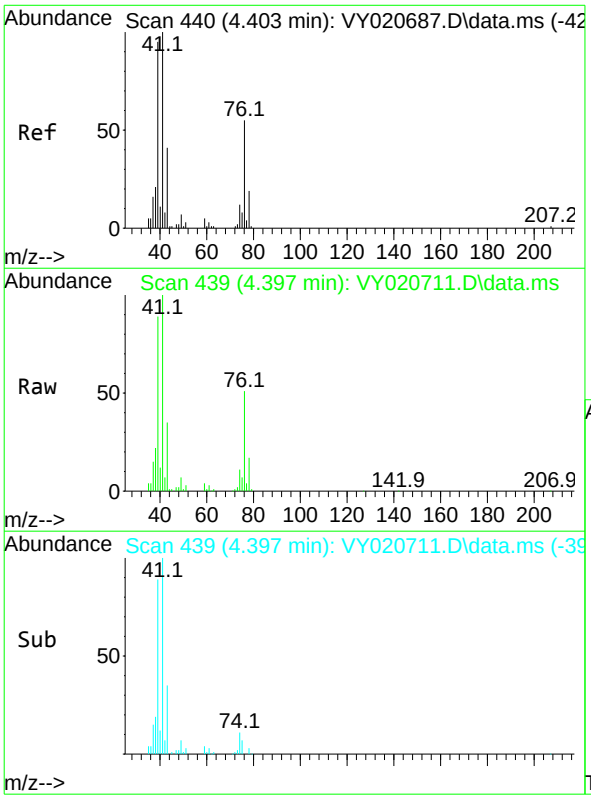
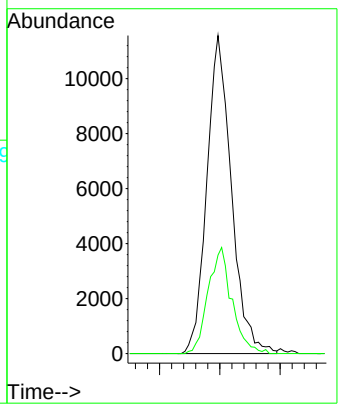
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

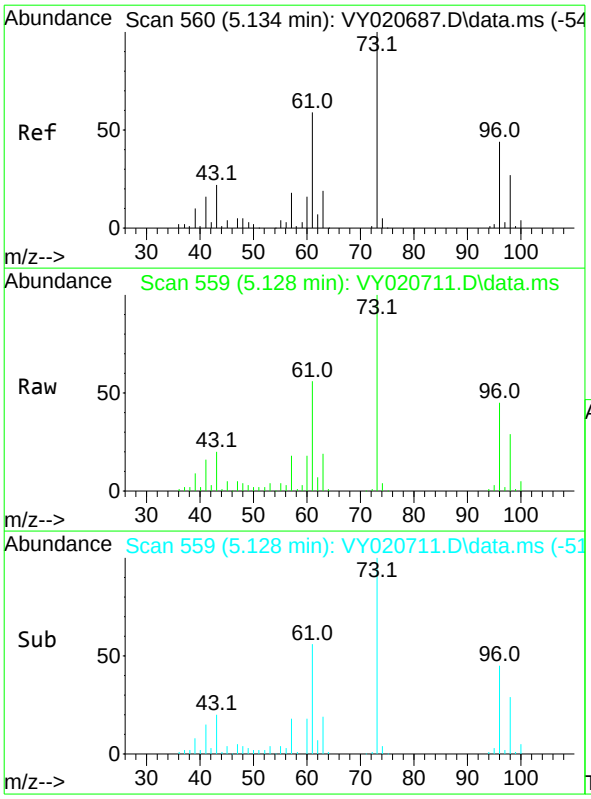



#18
Methyl Acetate
Concen: 99.589 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 32722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 32.3 | 25.3 | 37.9 |

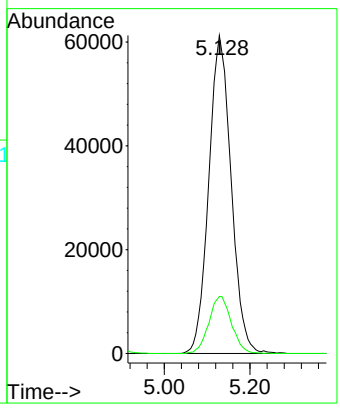





#19
Methyl tert-butyl Ether
Concen: 99.833 ug/l
RT: 5.128 min Scan# 55
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 73 Resp: 222187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 17.9 | 14.4 | 21.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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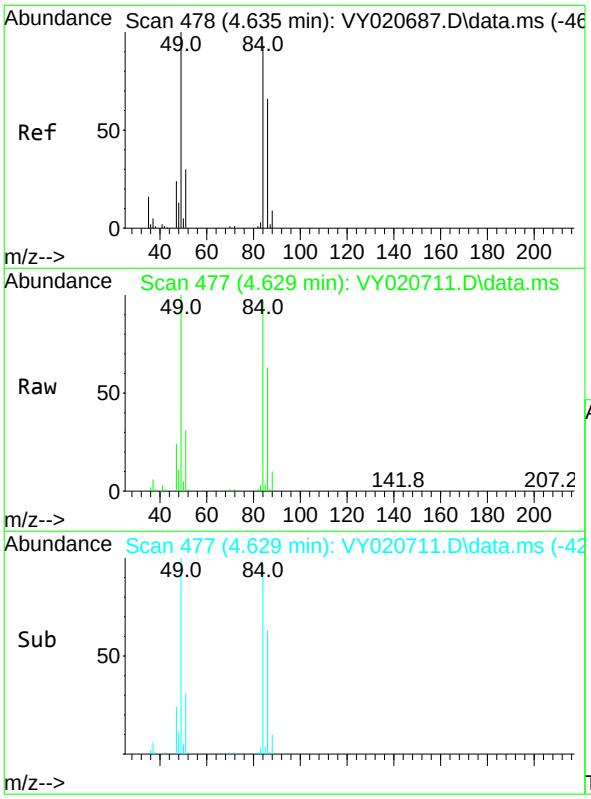
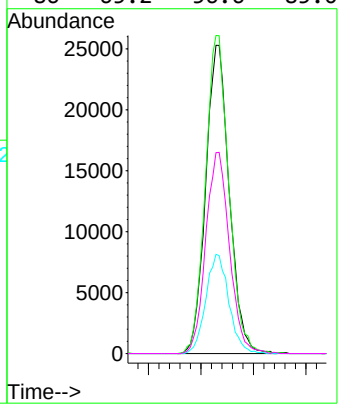
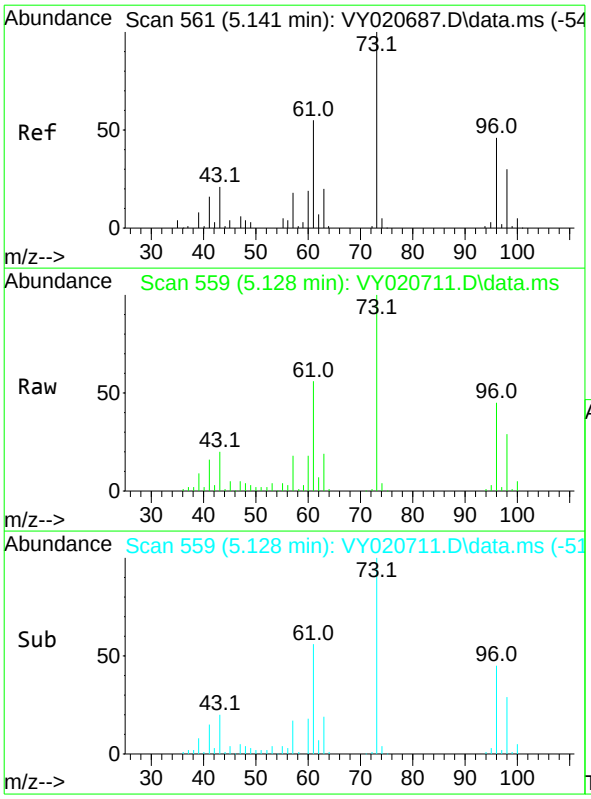



#20
Methylene Chloride
Concen: 99.904 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 84 Resp: 78882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 103.2 | 86.4 | 129.6 |
| 51 | 32.2 | 25.5 | 38.3 |
| 86 | 65.2 | 56.6 | 85.0 |

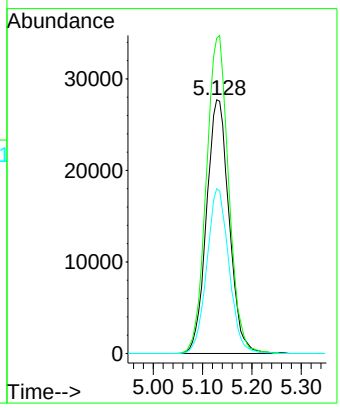





#21
trans-1,2-Dichloroethene
Concen: 102.532 ug/l
RT: 5.128 min Scan# 55
Delta R.T. -0.013 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 96 Resp: 88224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.3 | 96.1 | 144.1 |
| 98 | 64.9 | 52.7 | 79.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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Reviewed By :Mahesh Dadoda 12/27/2024
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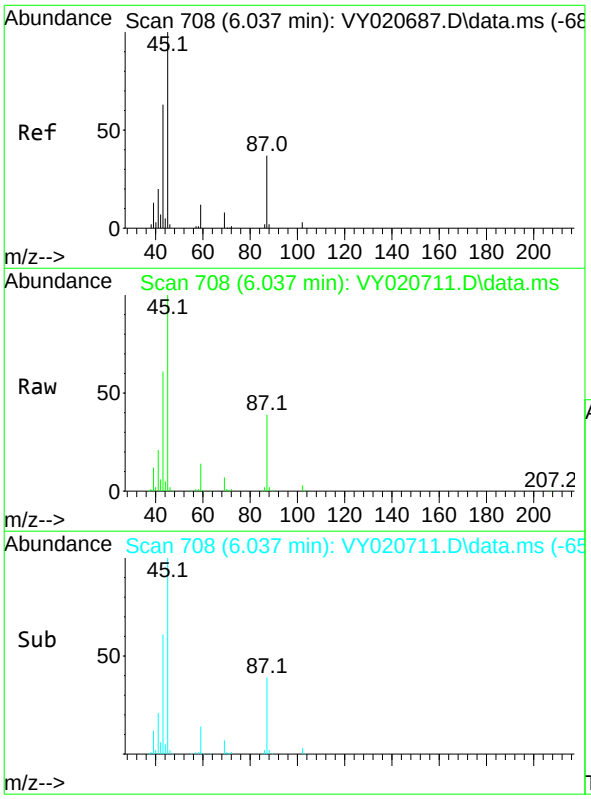
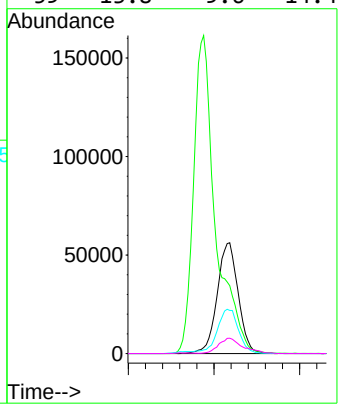
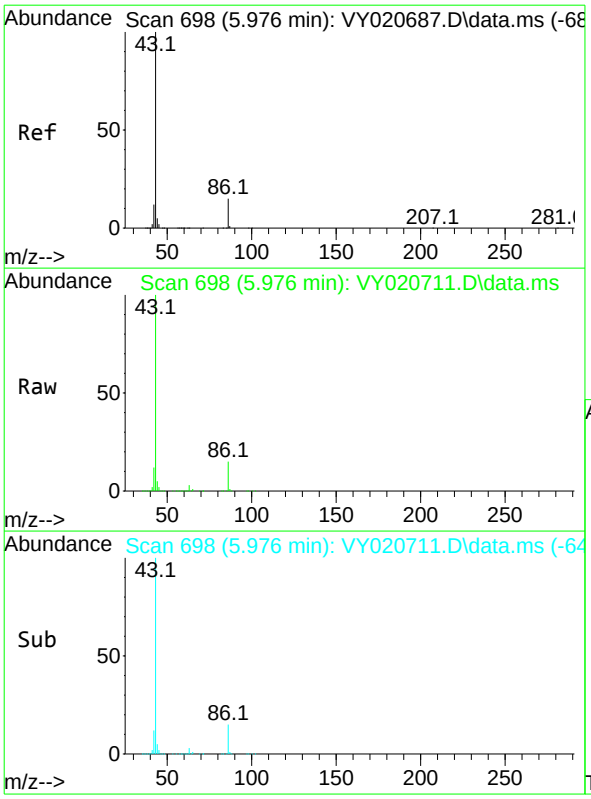



#22
Diisopropyl ether
Concen: 100.743 ug/l
RT: 6.037 min Scan# 708
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 45 Resp: 191362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 61.0 | 51.3 | 76.9 |
| 87 | 38.8 | 30.6 | 46.0 |
| 59 | 13.8 | 9.6 | 14.4 |

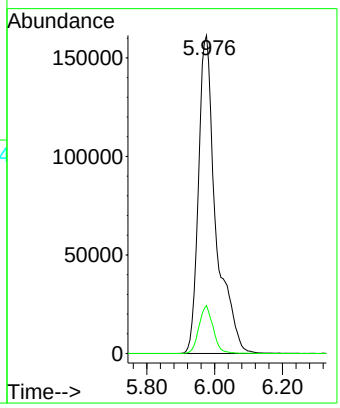





#23
Vinyl Acetate
Concen: 506.073 ug/l
RT: 5.976 min Scan# 69
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 574176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 15.1 | 12.0 | 18.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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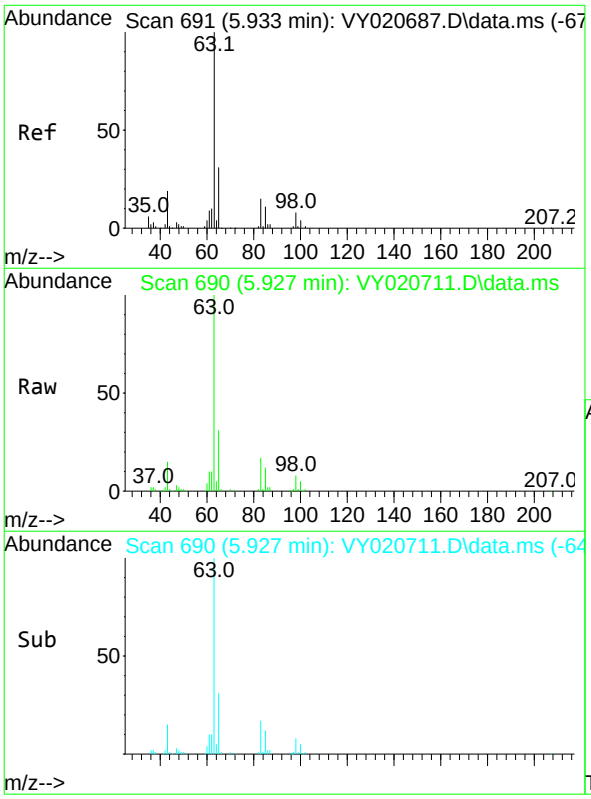
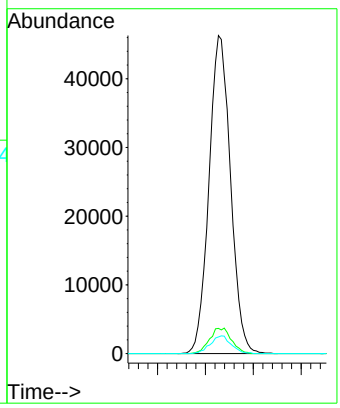
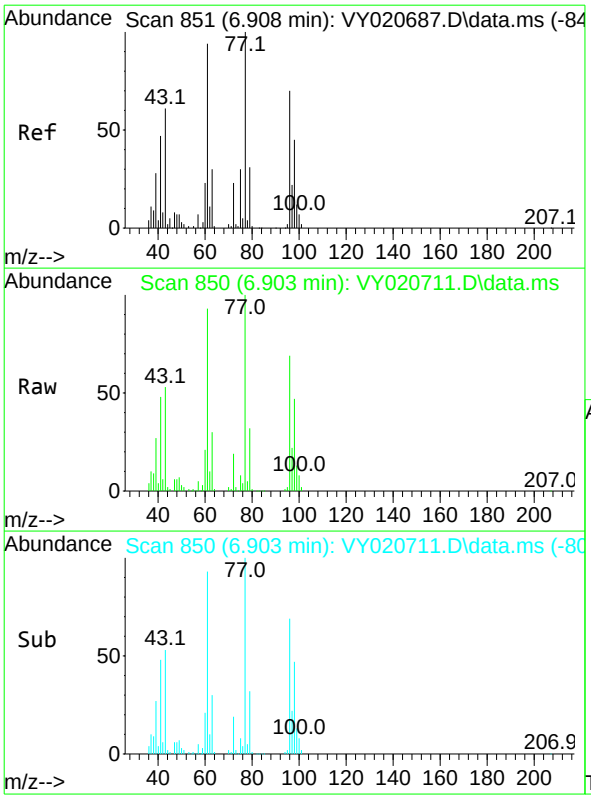



#24
1,1-Dichloroethane
Concen: 101.659 ug/l
RT: 5.927 min Scan# 690
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 63 Resp: 144777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.9 | 4.0 | 12.0 |
| 100 | 5.2 | 2.1 | 6.2 |

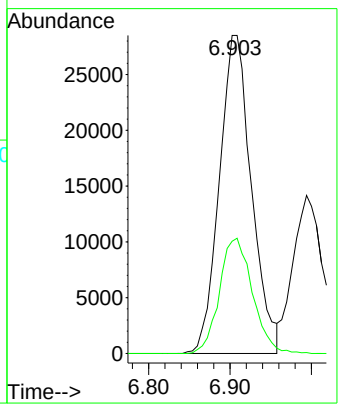





#25
2-Butanone
Concen: 477.386 ug/l
RT: 6.903 min Scan# 85
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 78288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 35.3 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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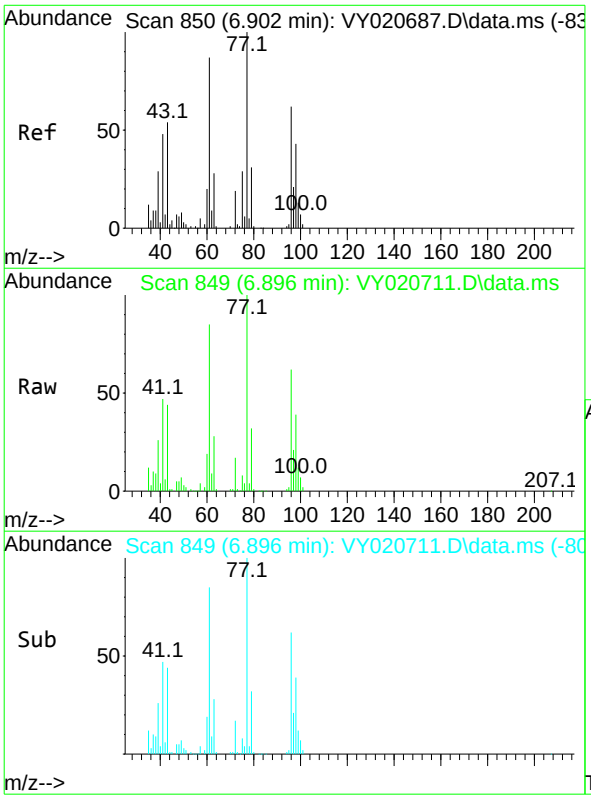
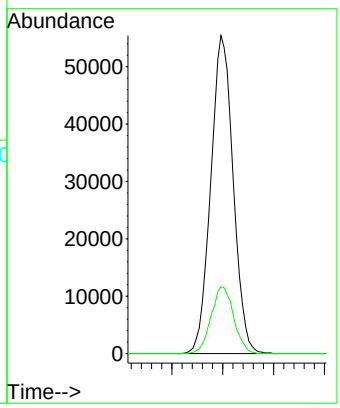
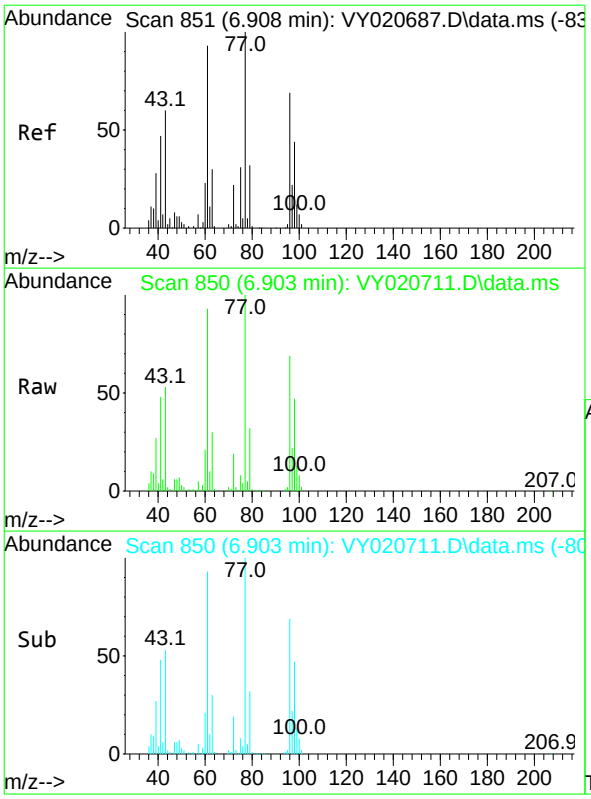



#26
2,2-Dichloropropane
Concen: 97.206 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 77 Resp: 169441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.2 | 10.8 | 32.4 |

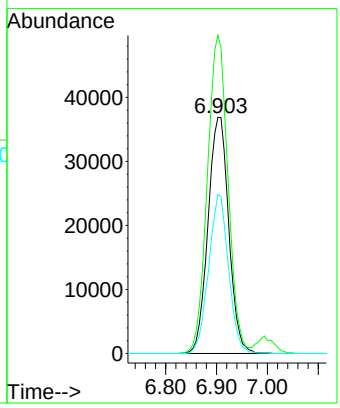





#27
cis-1,2-Dichloroethene
Concen: 101.307 ug/l
RT: 6.903 min Scan# 85
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 96 Resp: 104390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.1 | 0.0 | 277.2 |
| 98 | 64.7 | 0.0 | 131.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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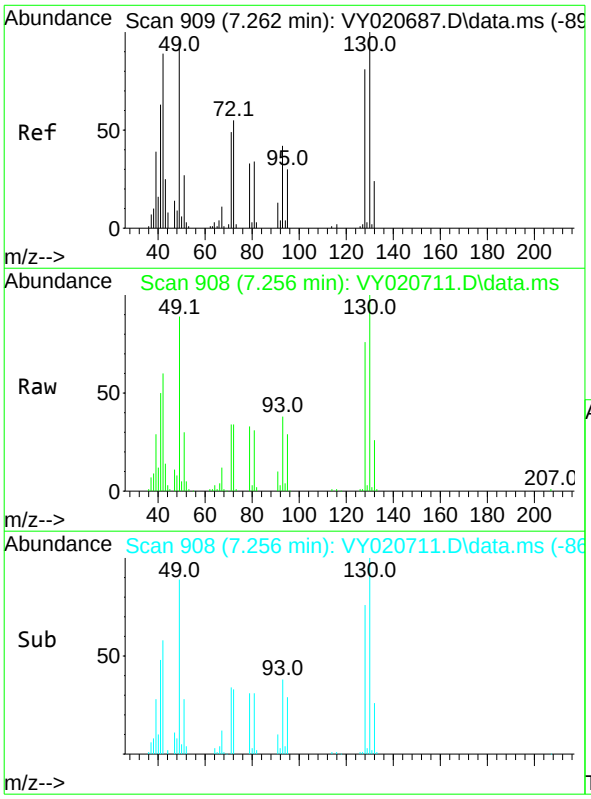
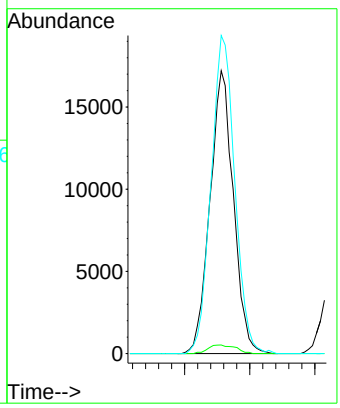
Supervised By :Semsettin Yesilyurt 12/27/2024

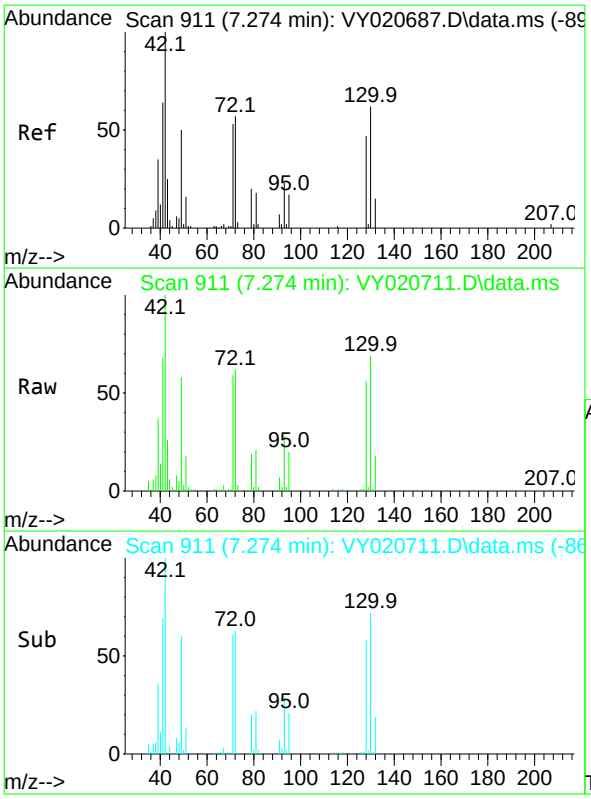



#28
Bromochloromethane
Concen: 114.037 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 49 Resp: 42948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 3.6 | 0.0 | 5.4 |
| 130 | 113.9 | 87.2 | 130.8 |

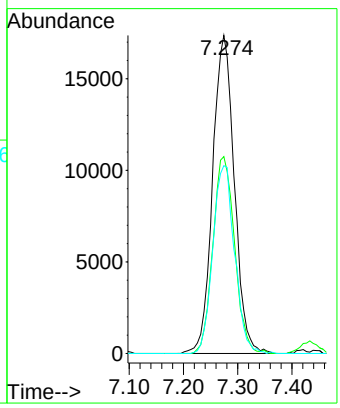





#29
Tetrahydrofuran
Concen: 478.582 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 42 Resp: 48175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 62.0 | 47.4 | 71.0 |
| 71 | 59.3 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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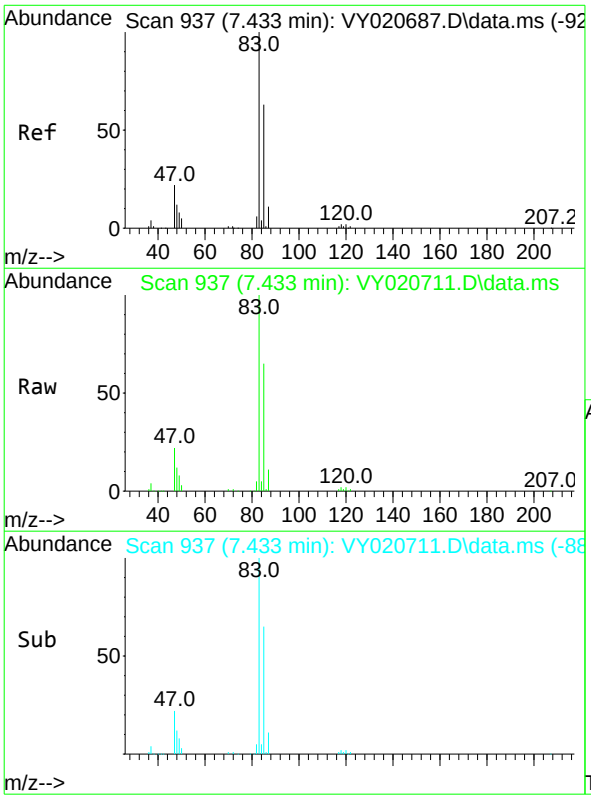
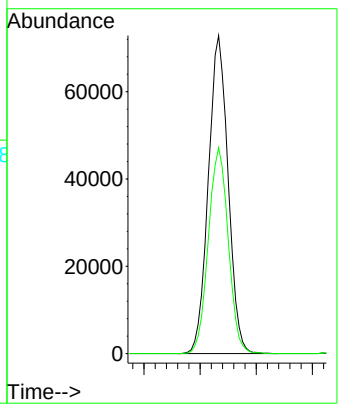
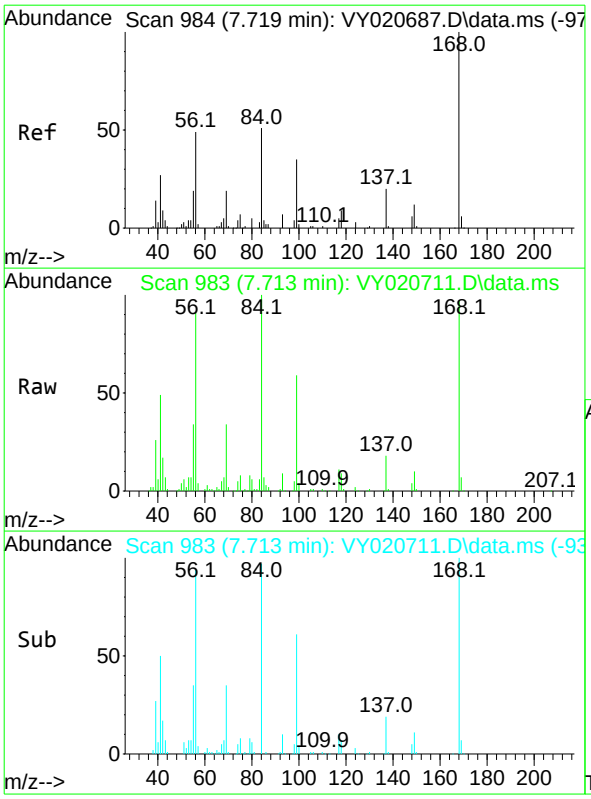



#30
Chloroform
Concen: 97.216 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 83 Resp: 178101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 50.2 | 75.2 |

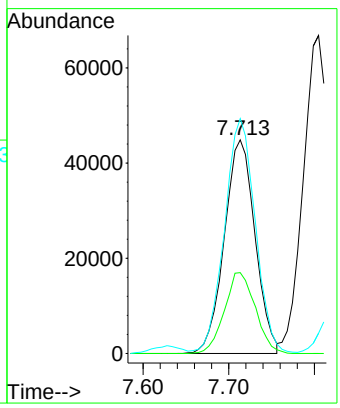





#31
Cyclohexane
Concen: 91.072 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 56 Resp: 111954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 37.8 | 31.3 | 46.9 |
| 84 | 107.4 | 83.9 | 125.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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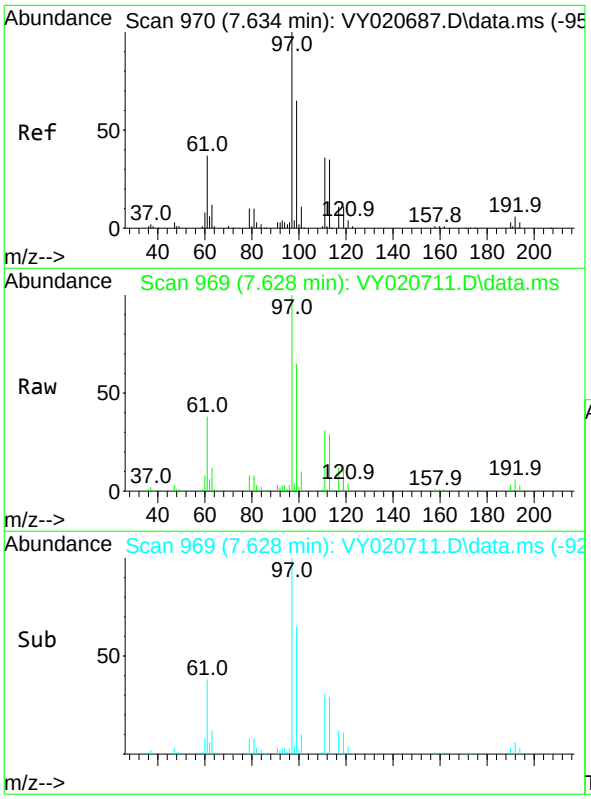
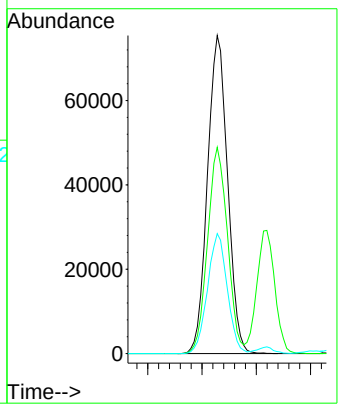
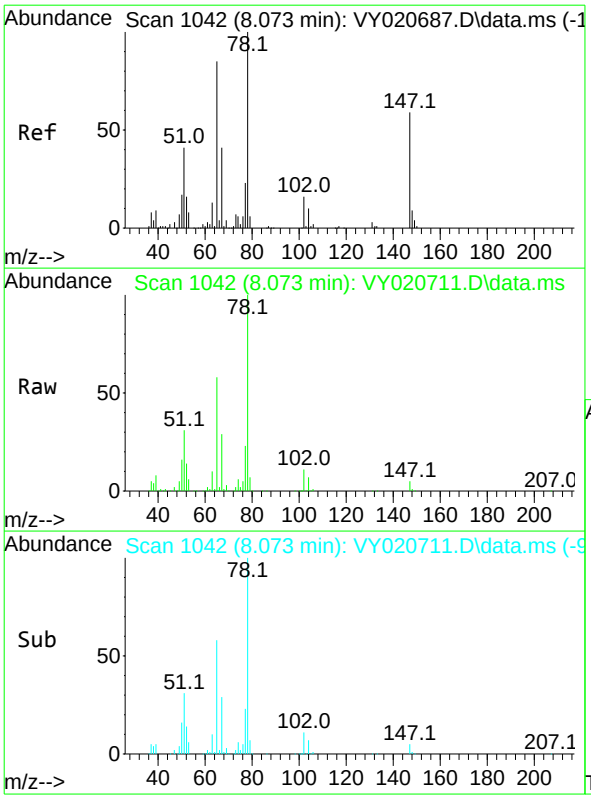



#32
1,1,1-Trichloroethane
Concen: 98.873 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 97 Resp: 194164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.0 | 76.6 |
| 61 | 37.0 | 30.0 | 45.0 |

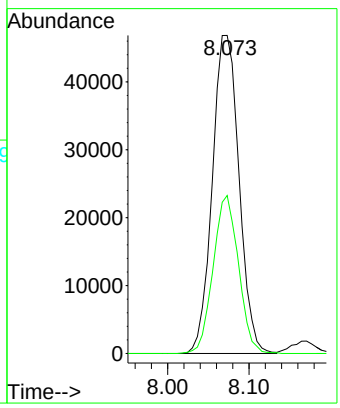





#33
1,2-Dichloroethane-d4
Concen: 111.689 ug/l
RT: 8.073 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 65 Resp: 106883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 47.1 | 0.0 | 98.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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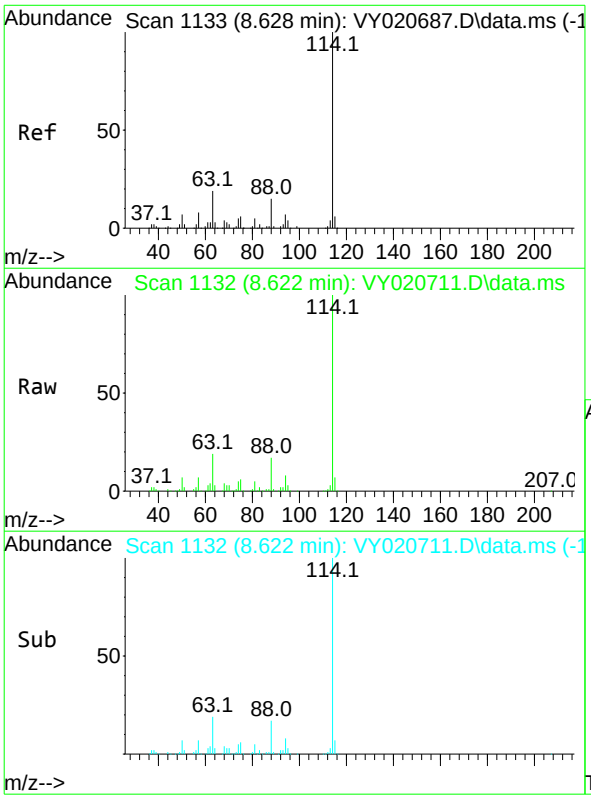
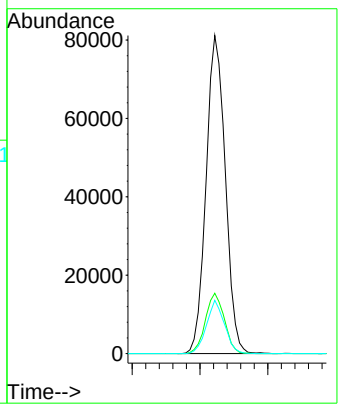
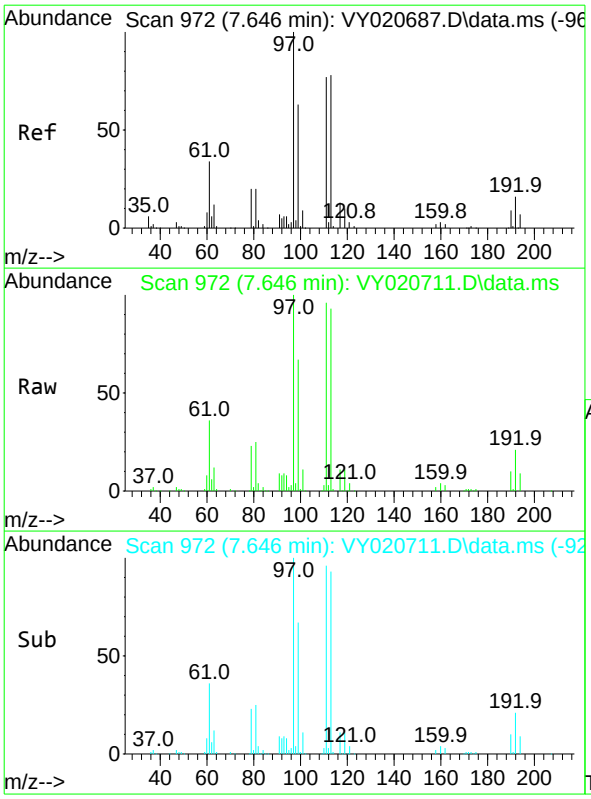



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:114 Resp: 159804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.0 | 0.0 | 38.4 |
| 88 | 16.7 | 0.0 | 30.4 |

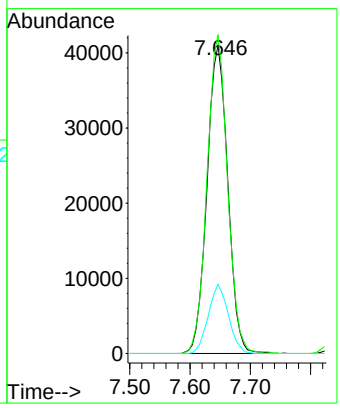





#35
Dibromofluoromethane
Concen: 111.484 ug/l
RT: 7.646 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:113 Resp: 98131

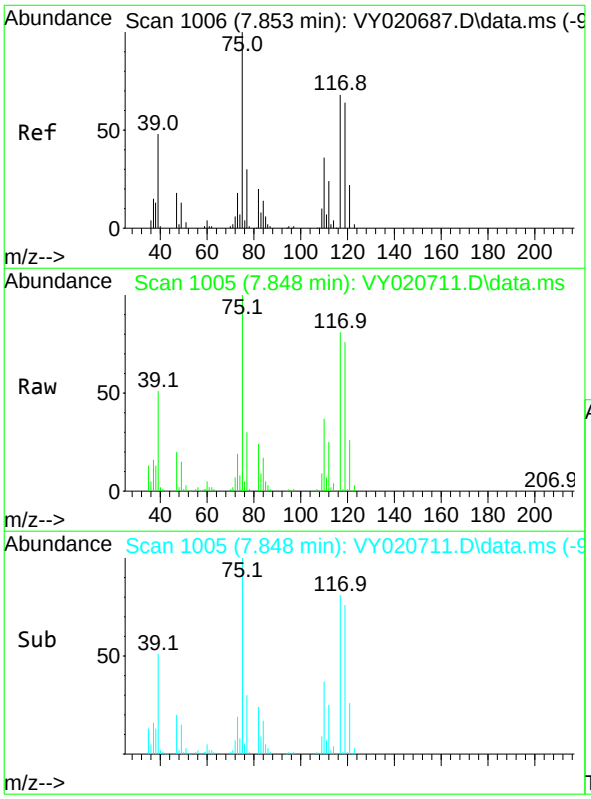
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 79.8 | 119.8 |
| 192 | 21.8 | 17.0 | 25.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

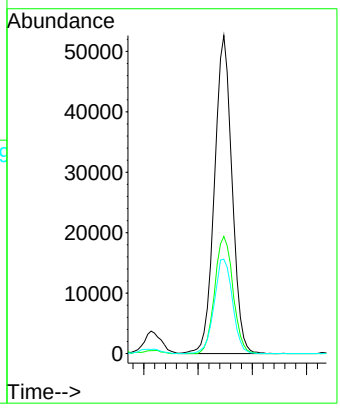
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

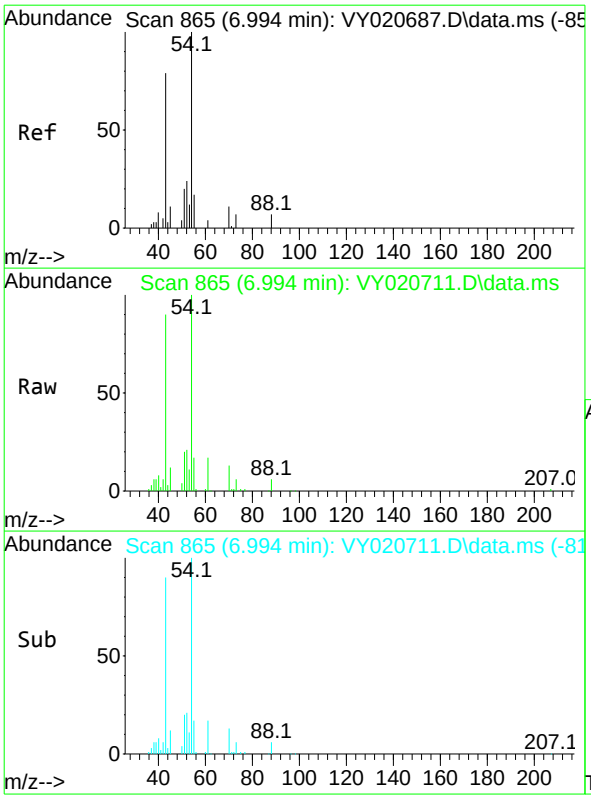



#36
1,1-Dichloropropene
Concen: 101.669 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 75 Resp: 118213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.3 | 19.6 | 58.7 |
| 77 | 31.0 | 25.1 | 37.7 |

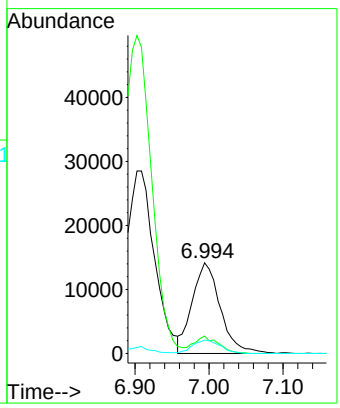





#37
Ethyl Acetate
Concen: 97.751 ug/l
RT: 6.994 min Scan# 86
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 37453

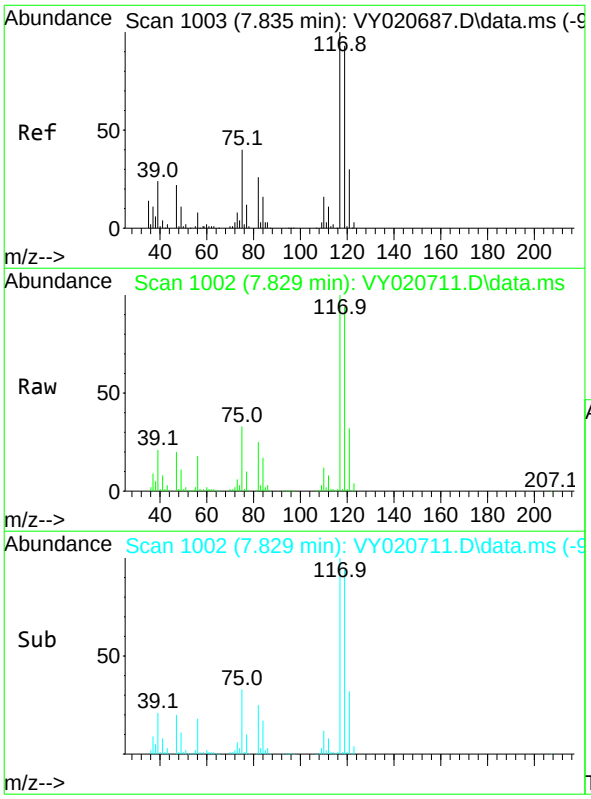
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.1 | 11.7 | 17.5 |
| 70 | 14.6 | 11.0 | 16.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

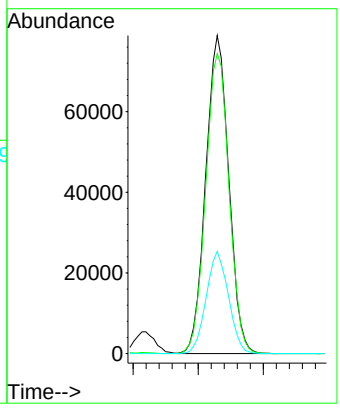
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

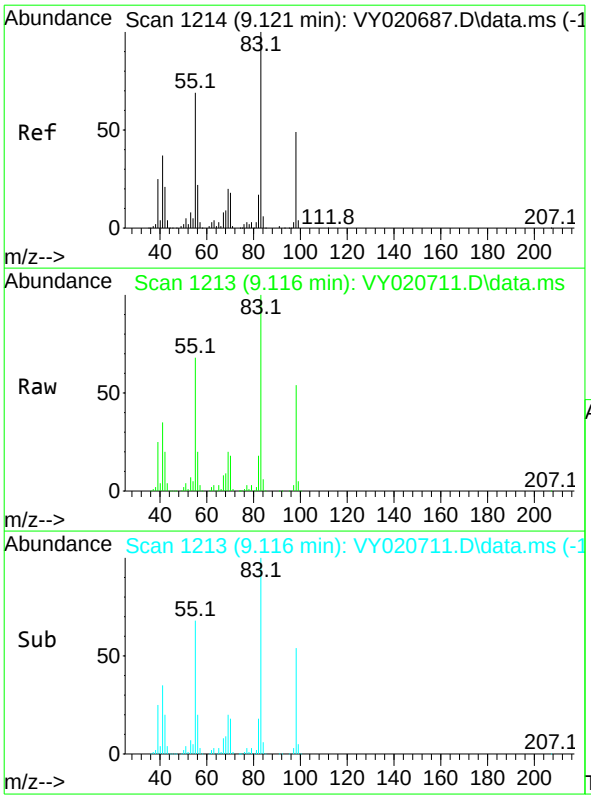



#38
Carbon Tetrachloride
Concen: 101.190 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:117 Resp: 193743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.3 | 74.4 | 111.6 |
| 121 | 32.1 | 24.2 | 36.2 |

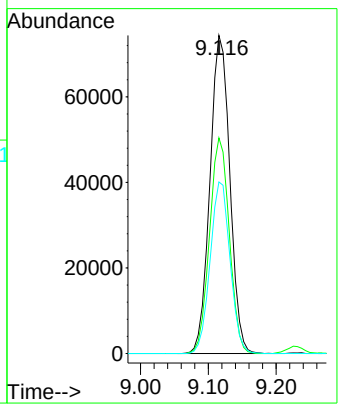





#39
Methylcyclohexane
Concen: 101.582 ug/l
RT: 9.116 min Scan# 12
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 83 Resp: 151388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 67.8 | 55.0 | 82.4 |
| 98 | 53.9 | 39.0 | 58.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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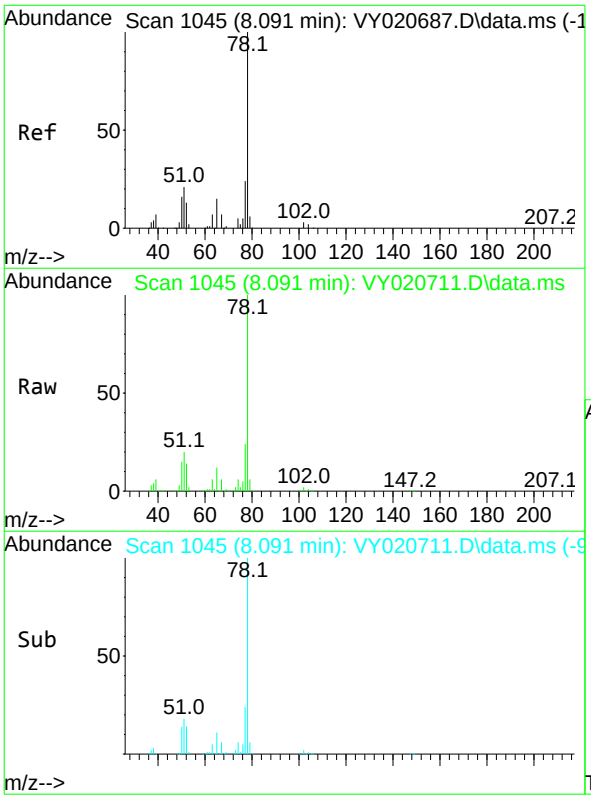
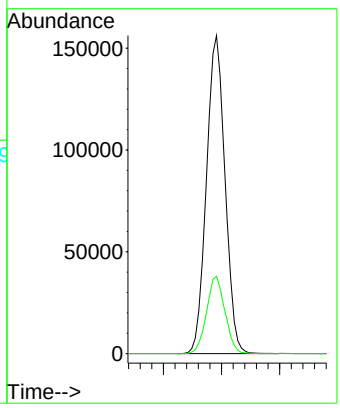
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

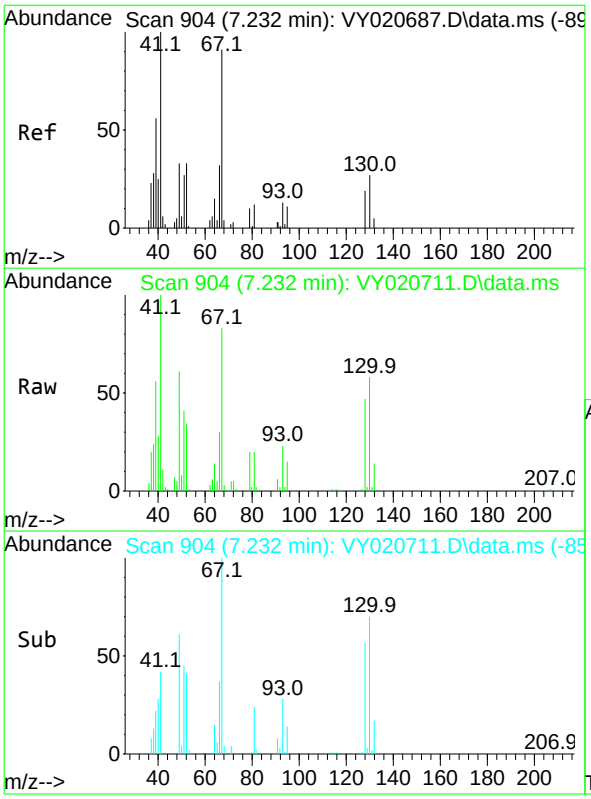



#40
Benzene
Concen: 102.763 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 78 Resp: 346286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 19.2 | 28.8 |

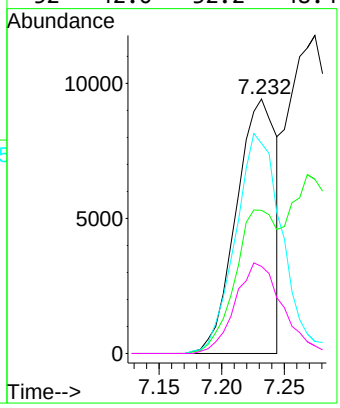





#41
Methacrylonitrile
Concen: 107.636 ug/l
RT: 7.232 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 41 Resp: 20832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.3 | 46.6 | 70.0 |
| 67 | 101.0 | 74.7 | 112.1 |
| 52 | 42.0 | 32.2 | 48.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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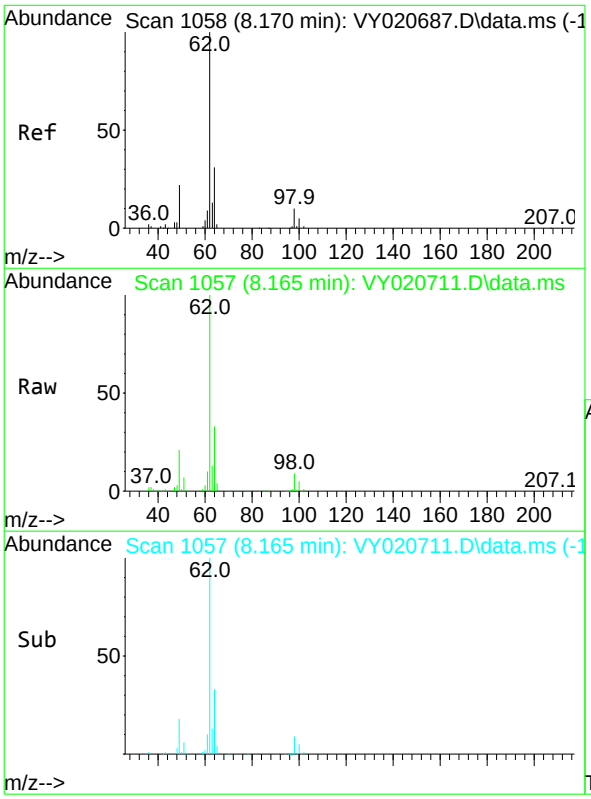
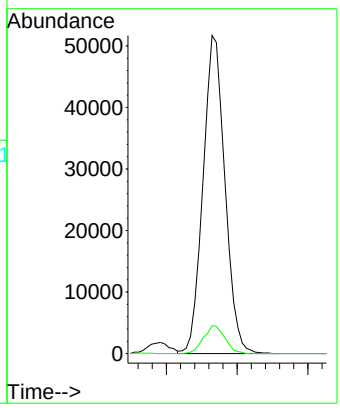
Supervised By :Semsettin Yesilyurt 12/27/2024

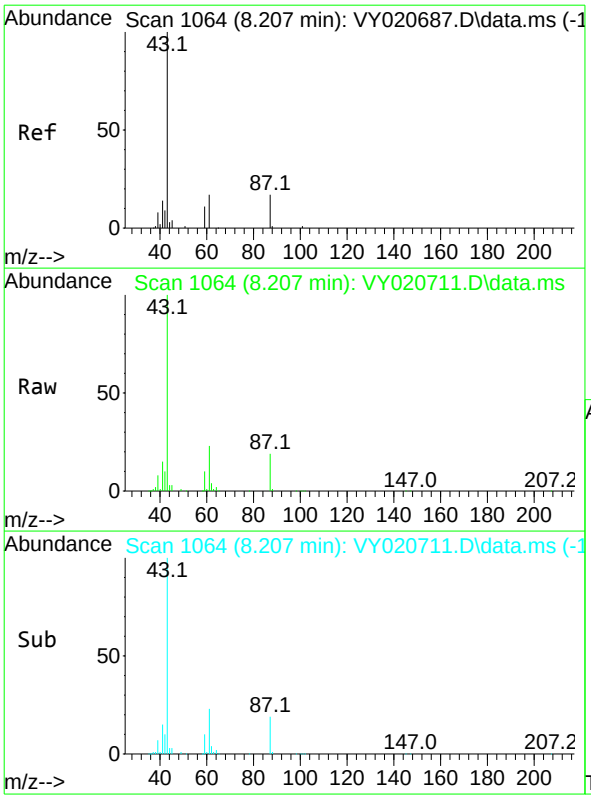



#42
1,2-Dichloroethane
Concen: 102.849 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 62 Resp: 111130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.6 | 0.0 | 16.6 |

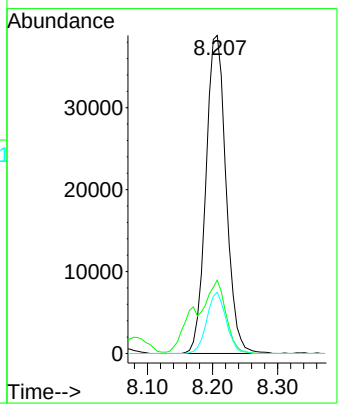





#43
Isopropyl Acetate
Concen: 102.557 ug/l
RT: 8.207 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 83521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.7 | 27.0 | 40.4# |
| 87 | 18.5 | 14.2 | 21.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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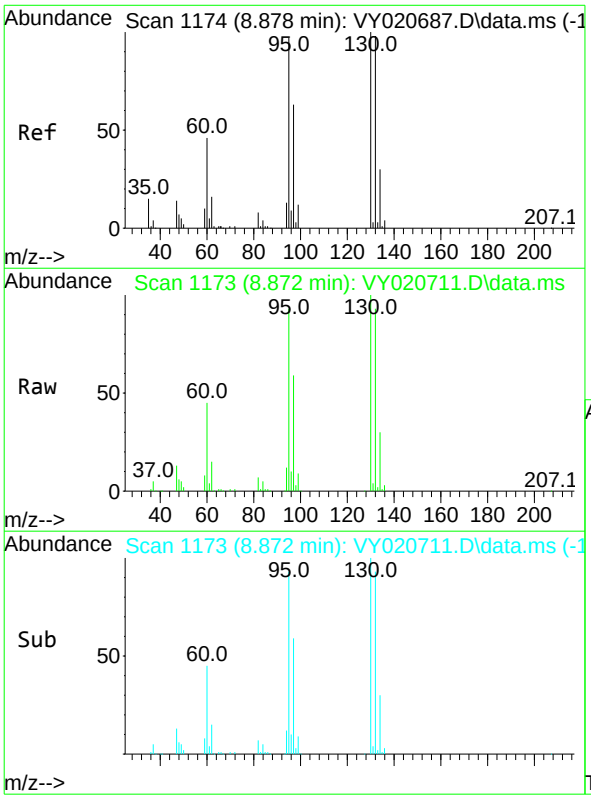
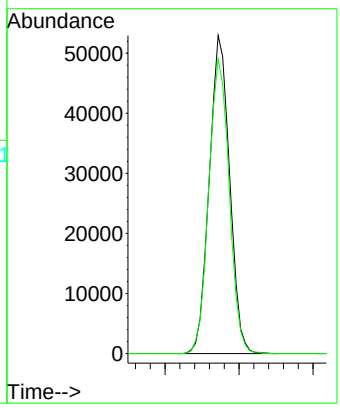
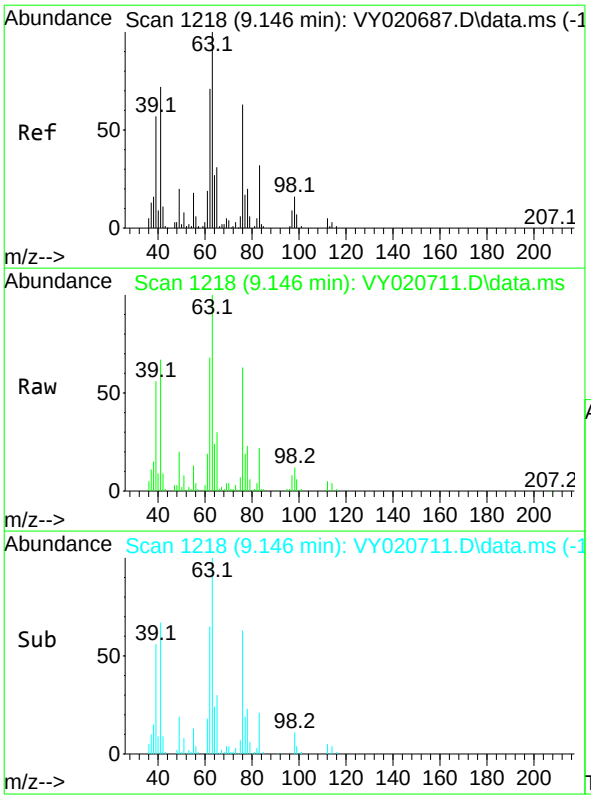



#44
Trichloroethene
Concen: 100.585 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:130 Resp: 101237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 92.7 | 0.0 | 194.8 |

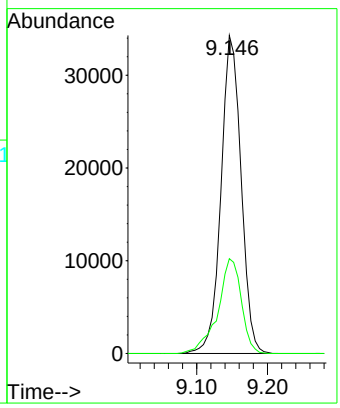





#45
1,2-Dichloropropane
Concen: 98.968 ug/l
RT: 9.146 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 63 Resp: 67508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.8 | 24.6 | 36.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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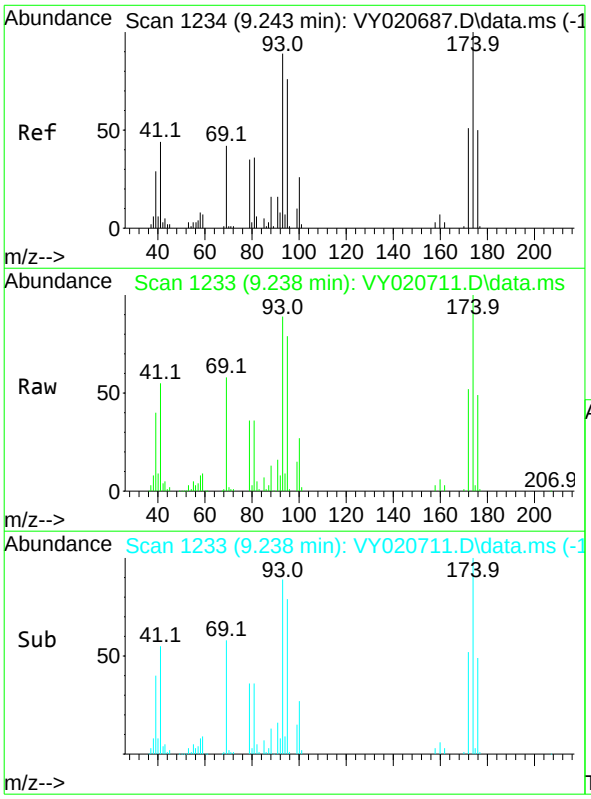
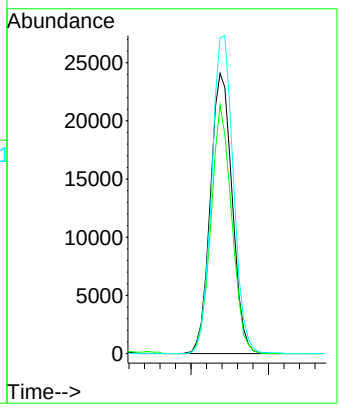
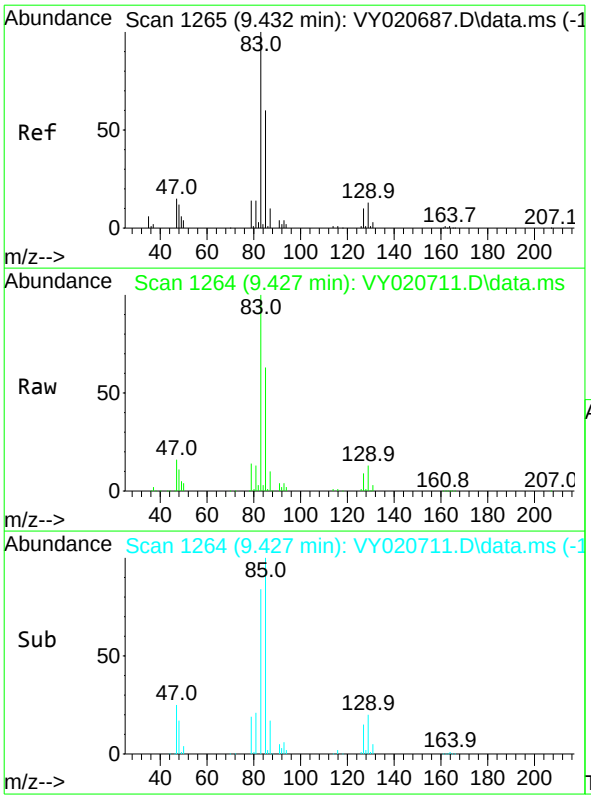



#46
Dibromomethane
Concen: 99.962 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 93 Resp: 47179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.8 | 67.8 | 101.8 |
| 174 | 112.7 | 89.4 | 134.0 |

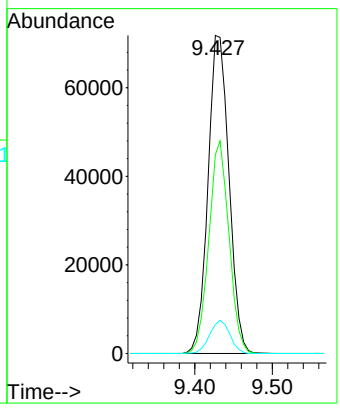





#47
Bromodichloromethane
Concen: 100.613 ug/l
RT: 9.427 min Scan# 12
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 83 Resp: 134627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.5 | 47.6 | 71.4 |
| 127 | 9.1 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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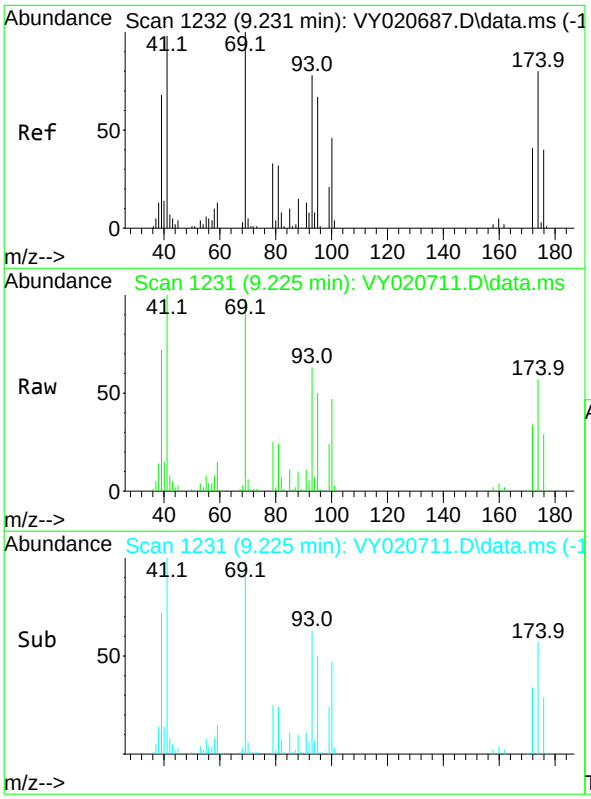
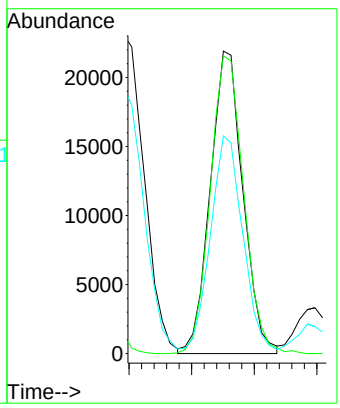
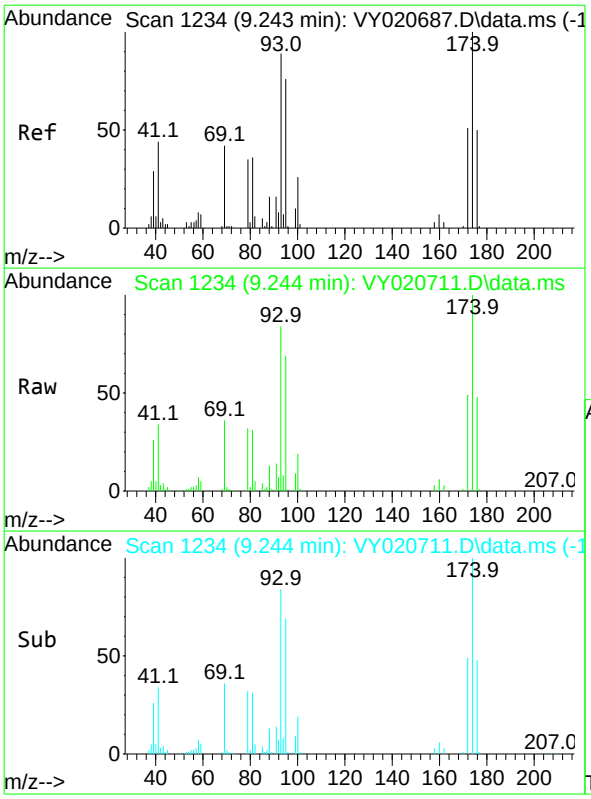



#48
Methyl methacrylate
Concen: 104.314 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 41 Resp: 39672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 100.4 | 83.1 | 124.7 |
| 39 | 69.2 | 57.3 | 85.9 |

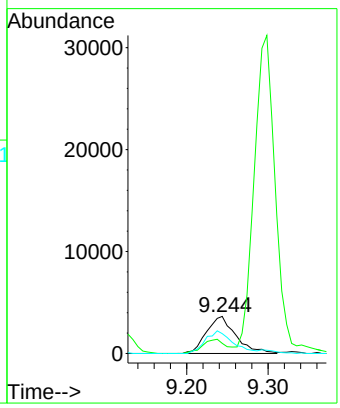





#49
1,4-Dioxane
Concen: 2030.846 ug/l
RT: 9.244 min Scan# 12
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 88 Resp: 9130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.6 | 22.1 | 33.1 |
| 58 | 57.0 | 46.7 | 70.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

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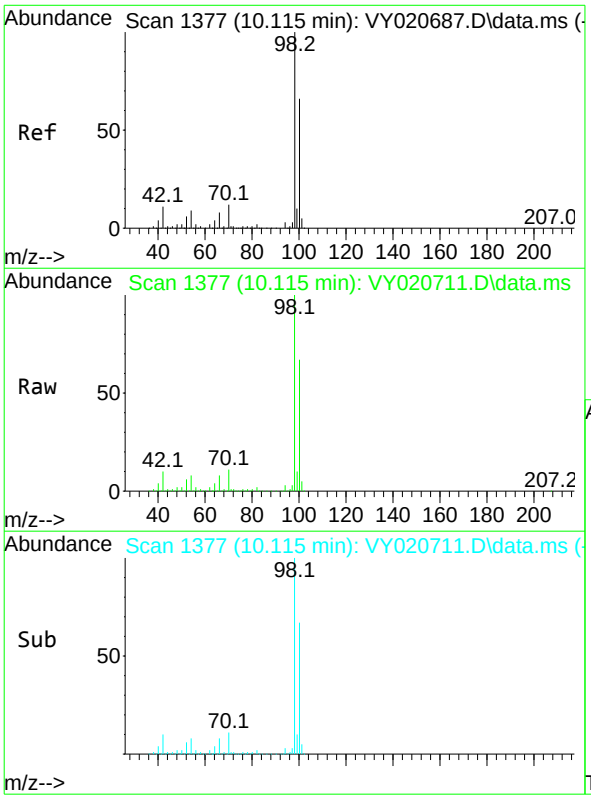
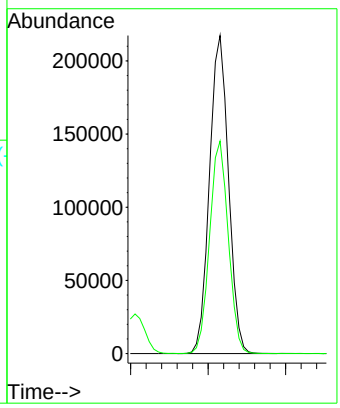
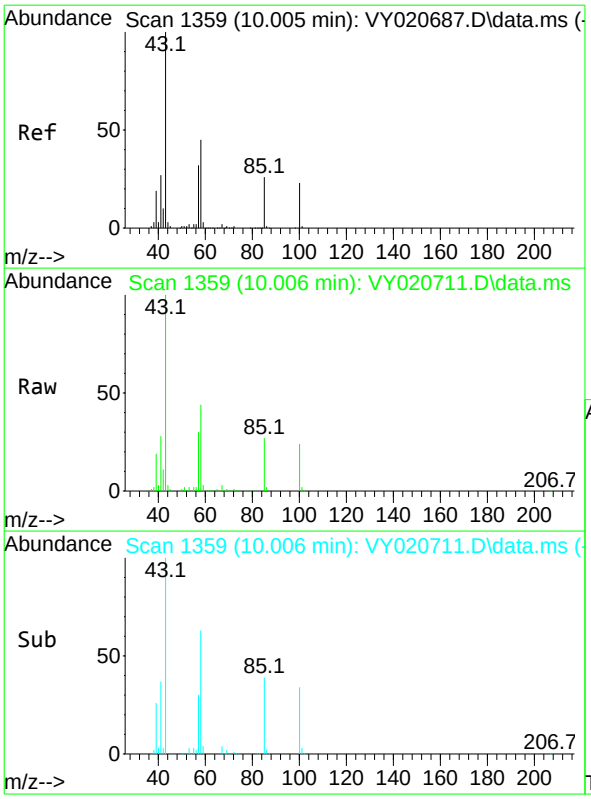



#50
Toluene-d8
Concen: 103.831 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 98 Resp: 370174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.6 | 52.2 | 78.4 |

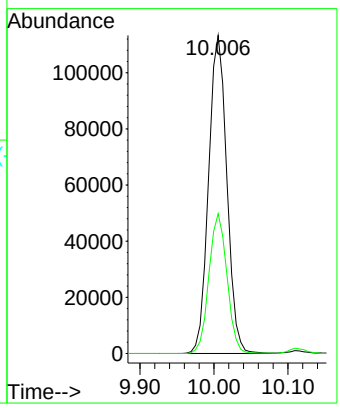





#51
4-Methyl-2-Pentanone
Concen: 493.895 ug/l
RT: 10.006 min Scan# 13
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 194141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.5 | 35.1 | 52.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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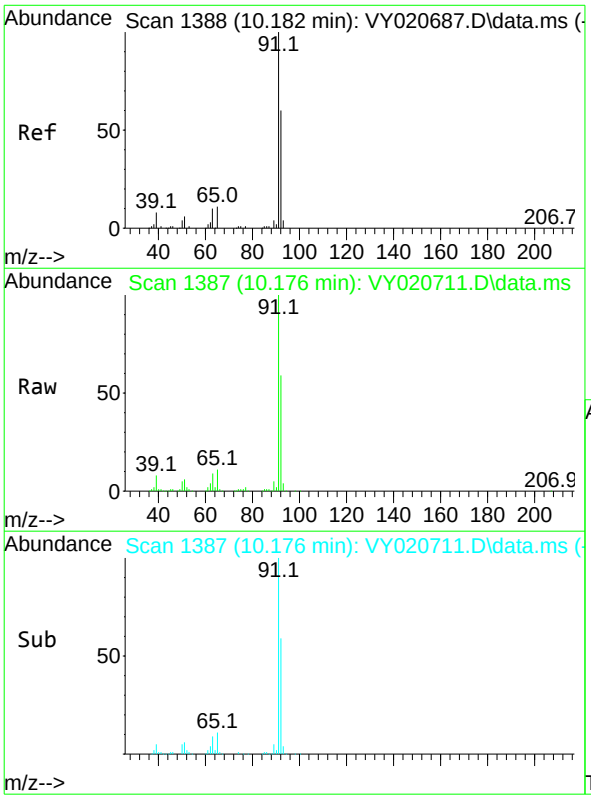
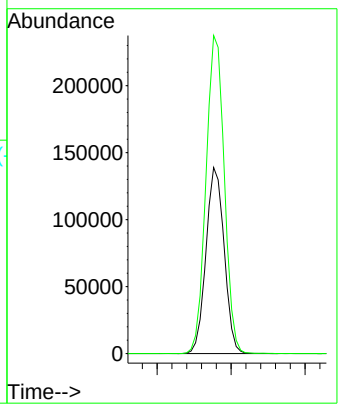
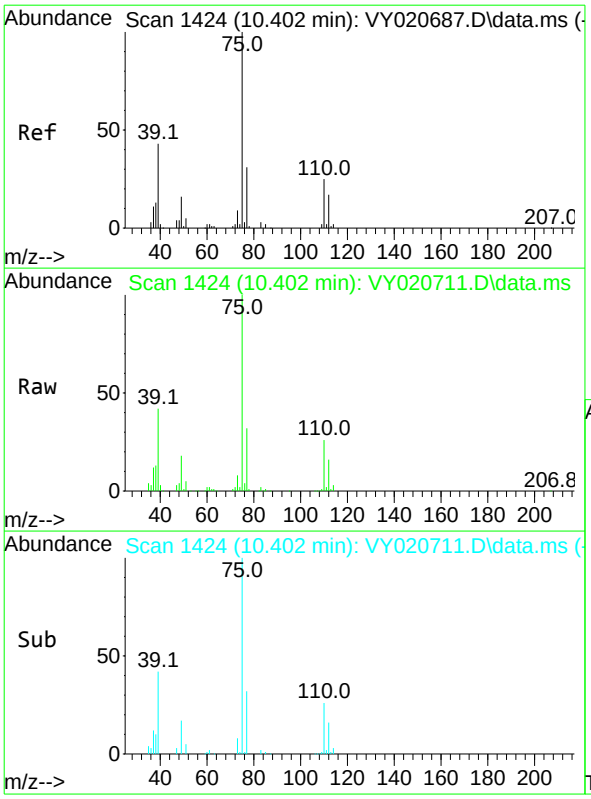



#52
Toluene
Concen: 102.558 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 92 Resp: 236867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.3 | 137.7 | 206.5 |

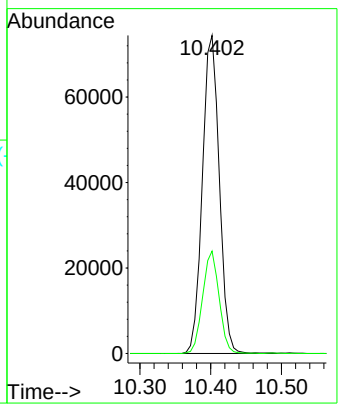





#53
t-1,3-Dichloropropene
Concen: 105.012 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 75 Resp: 123413

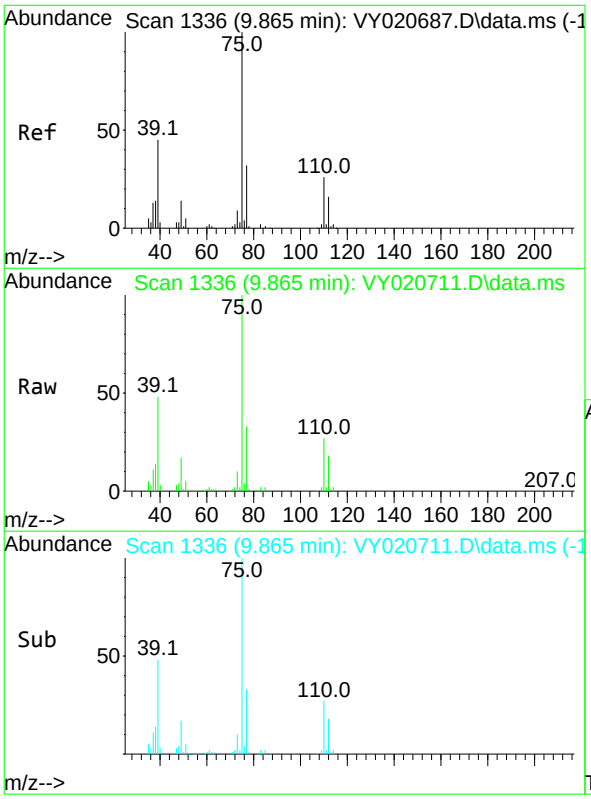
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 25.1 | 37.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

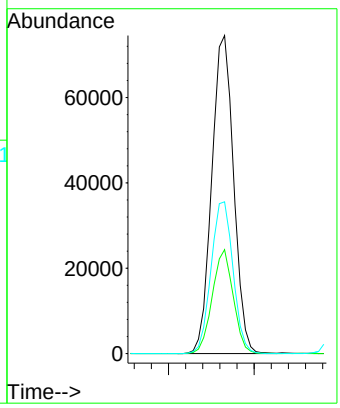
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

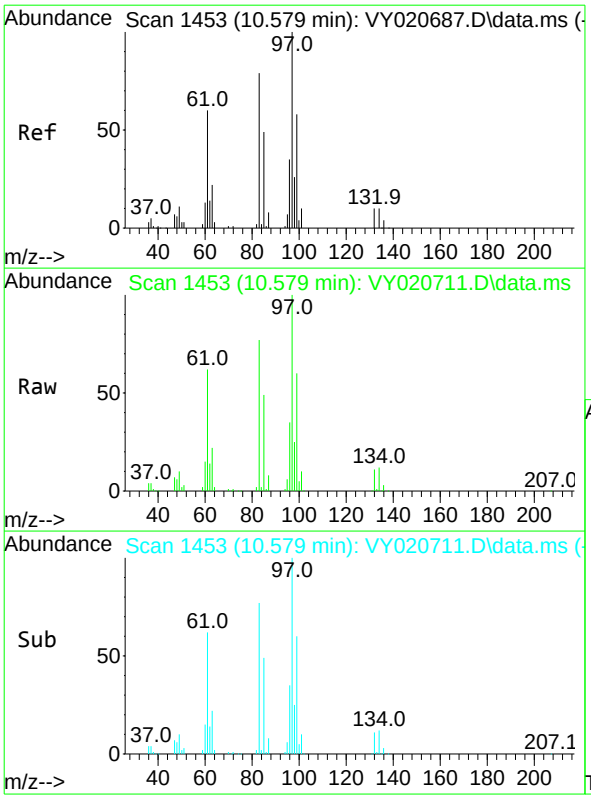



#54
cis-1,3-Dichloropropene
Concen: 102.590 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 75 Resp: 132154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.7 | 25.6 | 38.4 |
| 39 | 47.7 | 36.2 | 54.2 |

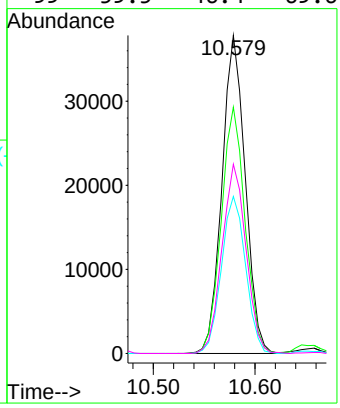





#55
1,1,2-Trichloroethane
Concen: 99.697 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 97 Resp: 60063

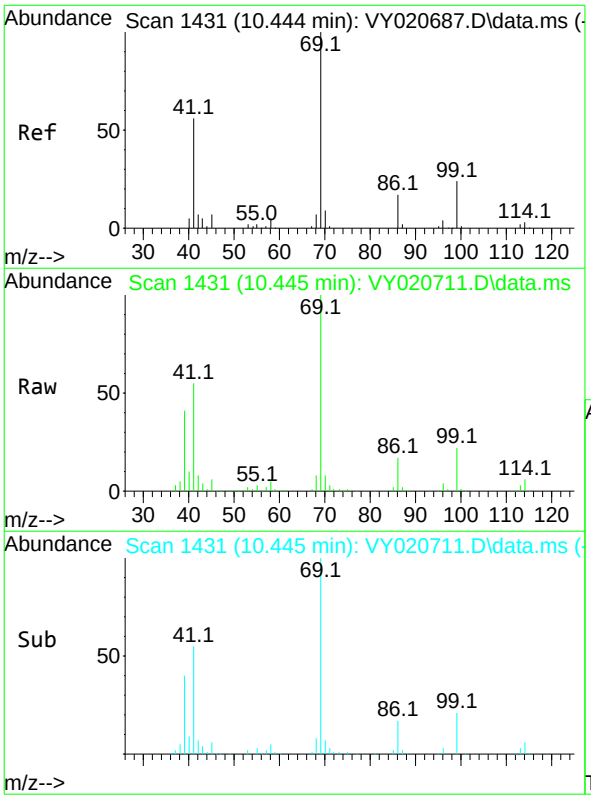
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 77.5 | 63.1 | 94.7 |
| 85 | 49.4 | 39.5 | 59.3 |
| 99 | 59.5 | 46.4 | 69.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

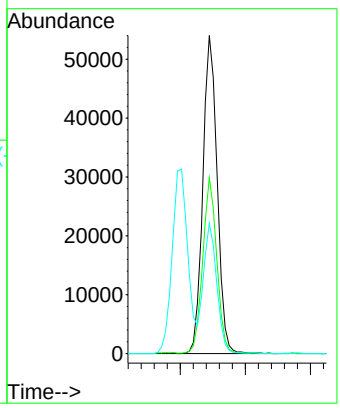
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

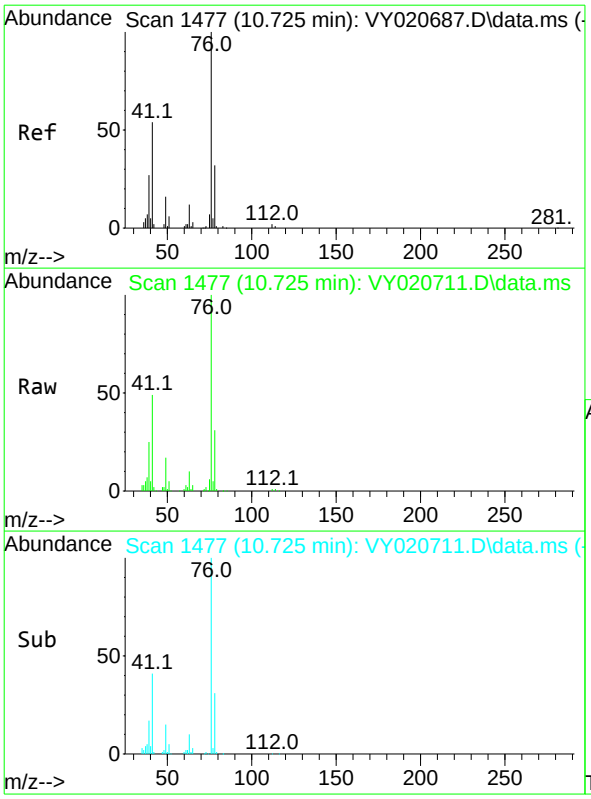



#56
Ethyl methacrylate
Concen: 104.330 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 69 Resp: 82573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 54.4 | 43.8 | 65.6 |
| 39 | 37.7 | 32.0 | 48.0 |

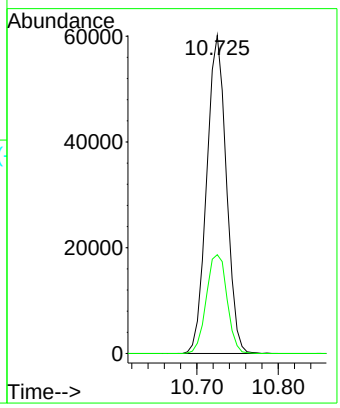





#57
1,3-Dichloropropane
Concen: 103.074 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 76 Resp: 100785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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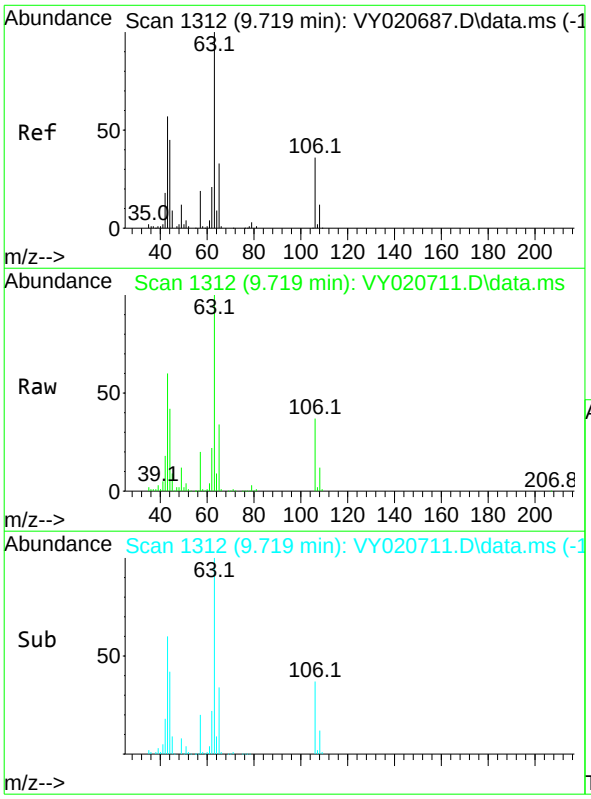
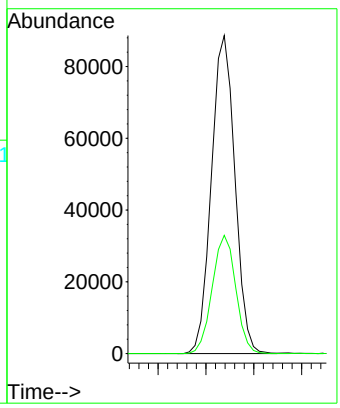
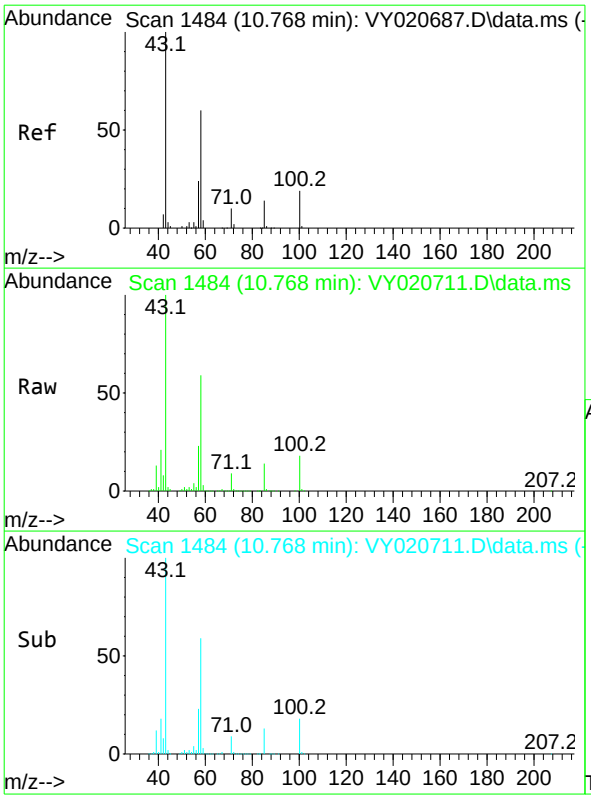



#58
2-Chloroethyl Vinyl ether
Concen: 547.868 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 63 Resp: 151207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 37.2 | 29.1 | 43.7 |

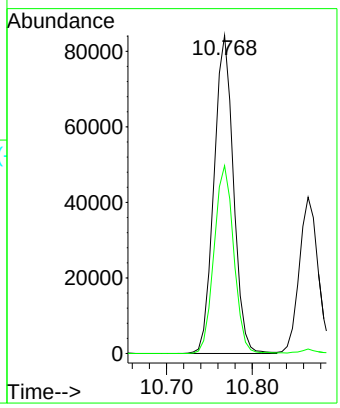





#59
2-Hexanone
Concen: 512.015 ug/l
RT: 10.768 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 132885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.7 | 30.1 | 90.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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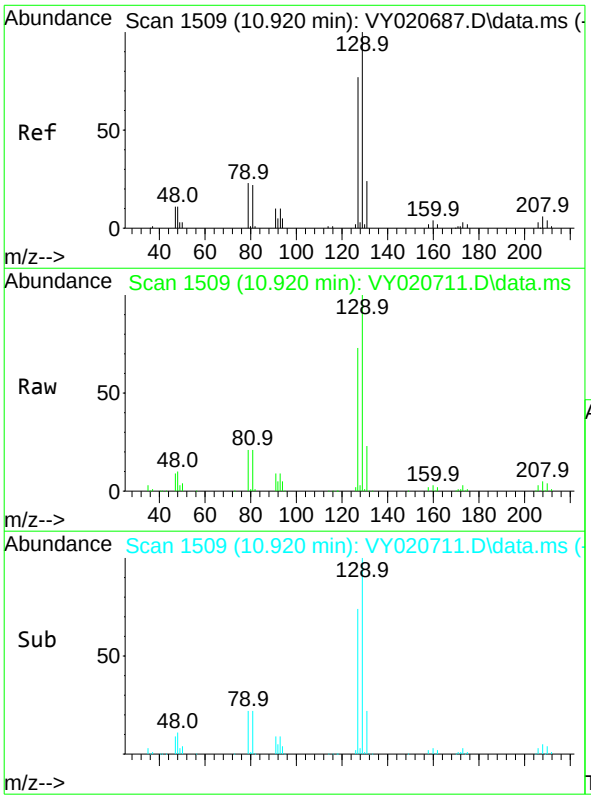
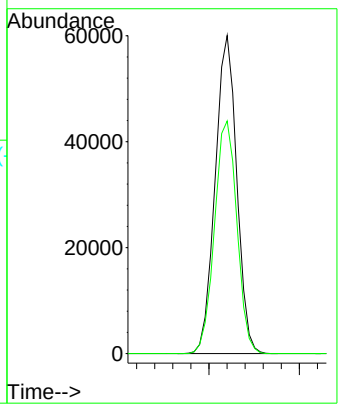
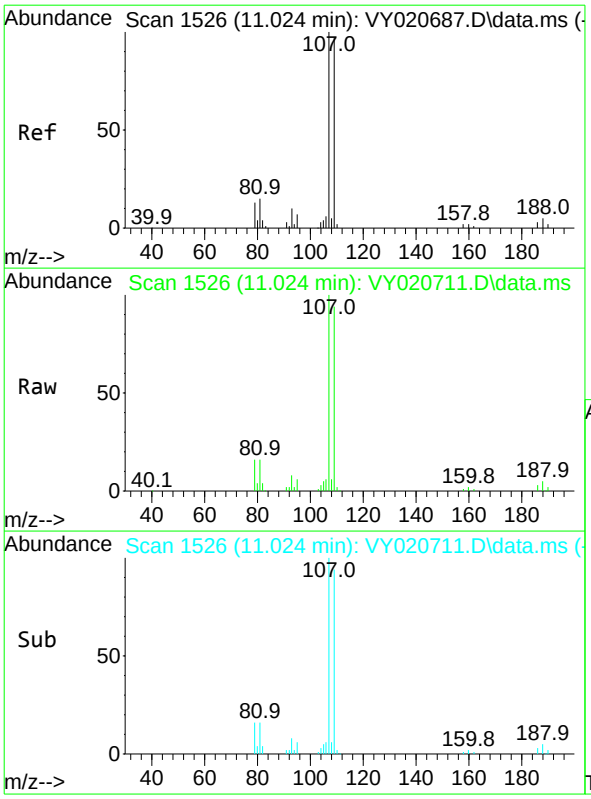



#60
Dibromochloromethane
Concen: 102.326 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:129 Resp: 99612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 75.8 | 38.5 | 115.5 |

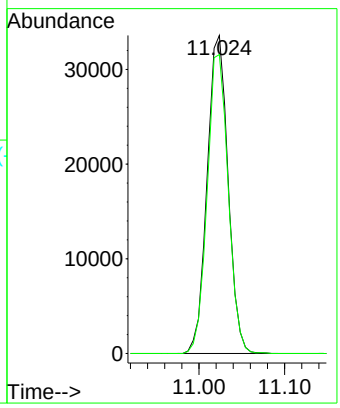





#61
1,2-Dibromoethane
Concen: 100.443 ug/l
RT: 11.024 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:107 Resp: 56939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.6 | 75.5 | 113.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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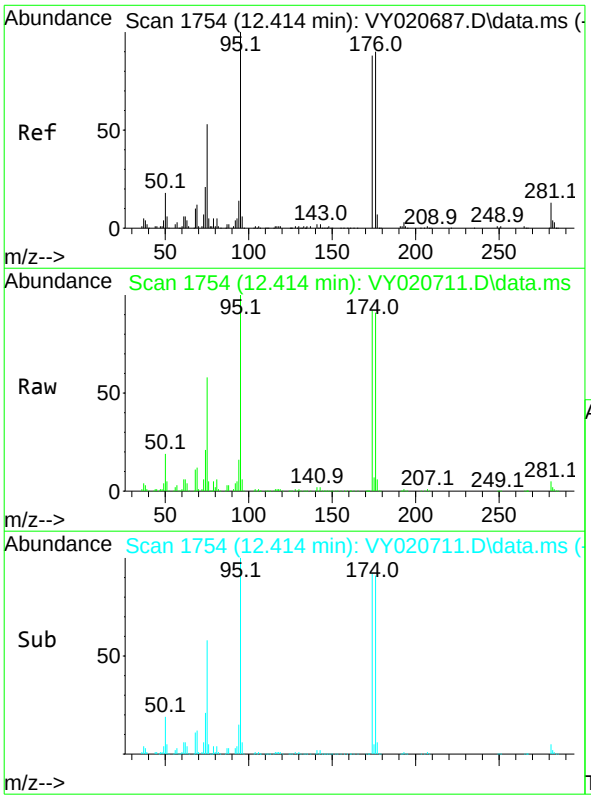
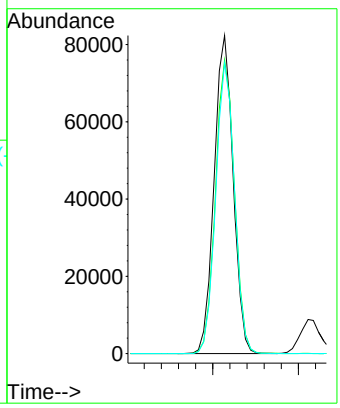
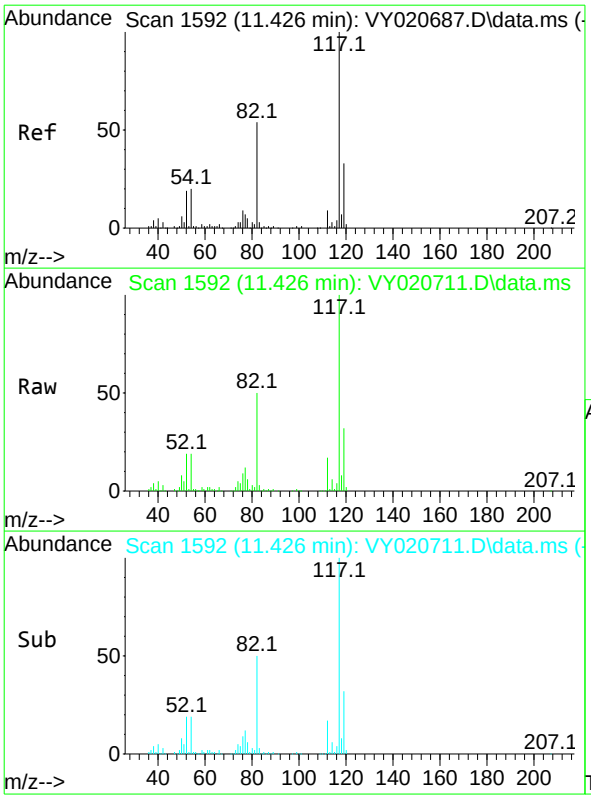



#62
4-Bromofluorobenzene
Concen: 108.473 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 95 Resp: 126890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 92.3 | 0.0 | 179.2 |
| 176 | 90.0 | 0.0 | 179.8 |

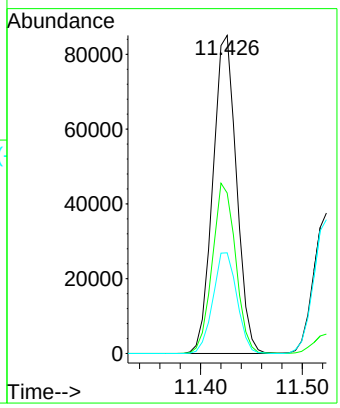





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:117 Resp: 137258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.5 | 43.4 | 65.2 |
| 119 | 31.6 | 26.6 | 39.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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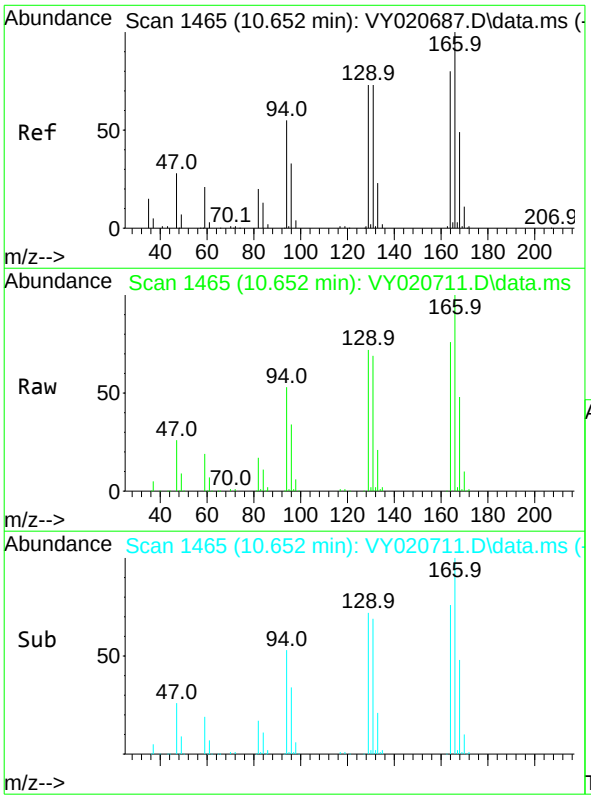
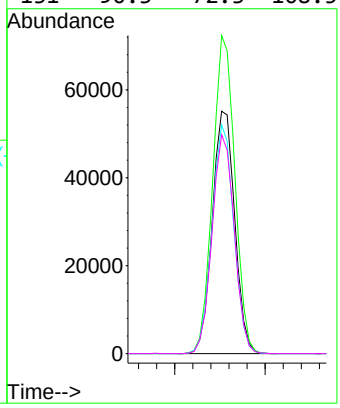
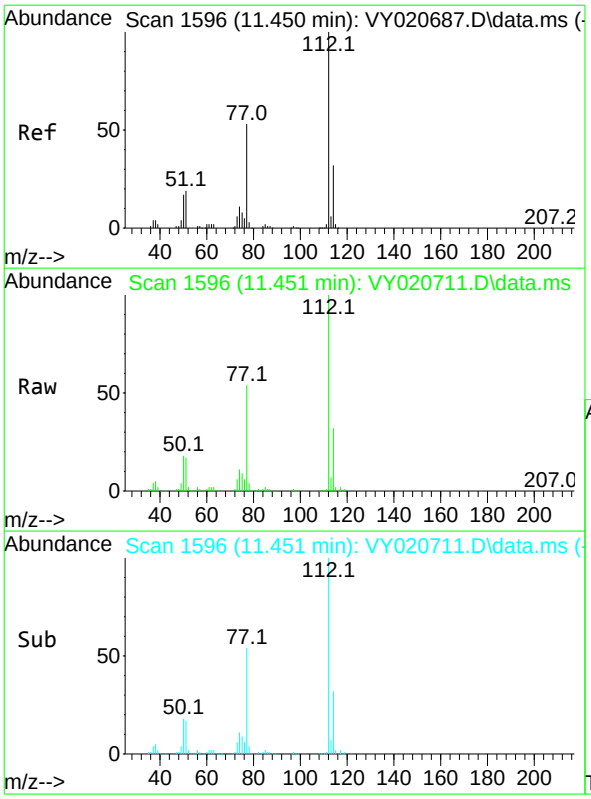



#64
Tetrachloroethene
Concen: 101.351 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:164 Resp: 95043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.2 | 99.6 | 149.4 |
| 129 | 94.4 | 73.0 | 109.4 |
| 131 | 90.3 | 72.3 | 108.5 |

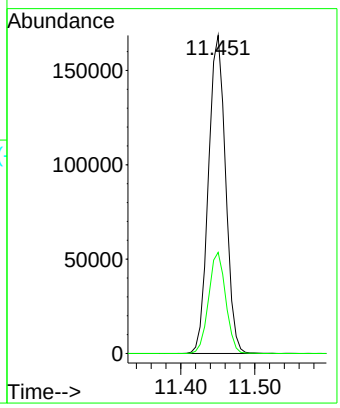





#65
Chlorobenzene
Concen: 100.641 ug/l
RT: 11.451 min Scan# 15
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:112 Resp: 270485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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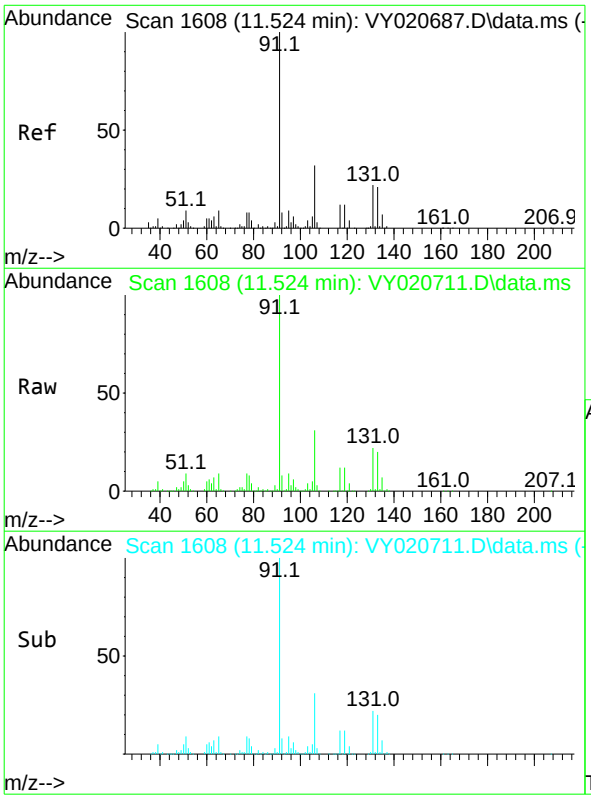
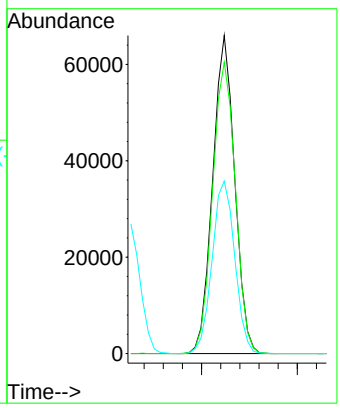
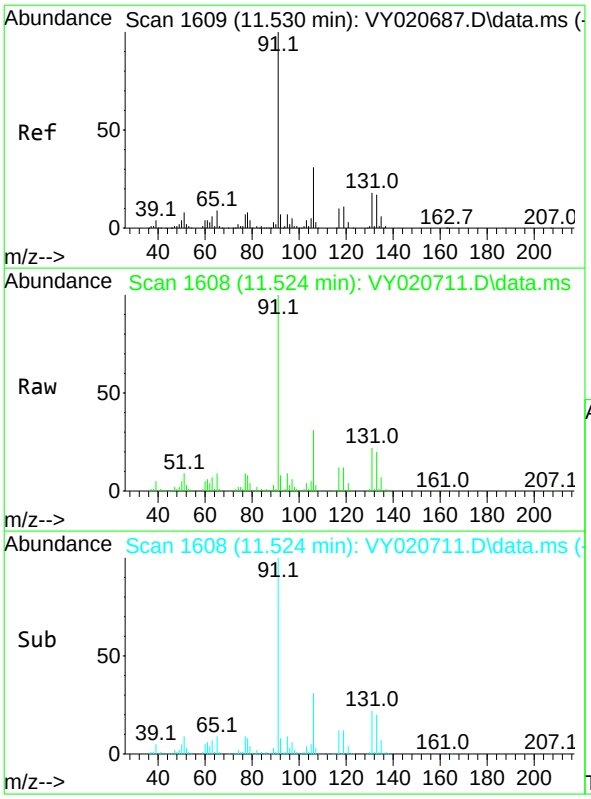



#66
1,1,1,2-Tetrachloroethane
Concen: 101.066 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:131 Resp: 105235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 48.6 | 145.9 |
| 119 | 55.9 | 28.4 | 85.3 |

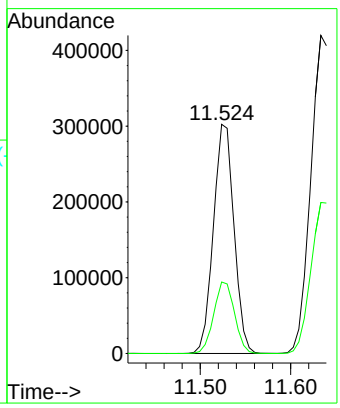





#67
Ethyl Benzene
Concen: 101.867 ug/l
RT: 11.524 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 91 Resp: 478506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 24.5 | 36.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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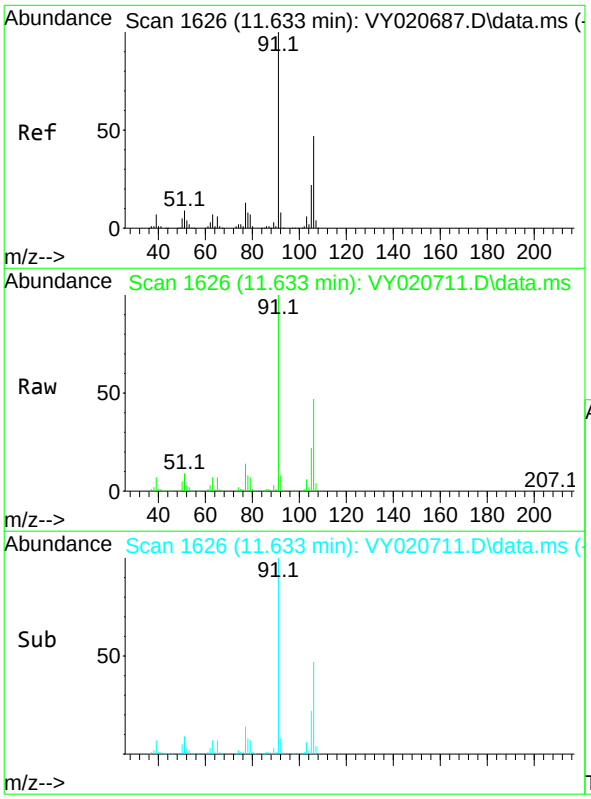
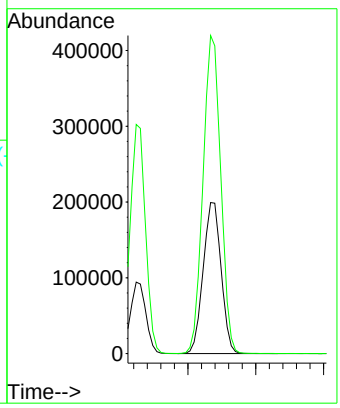
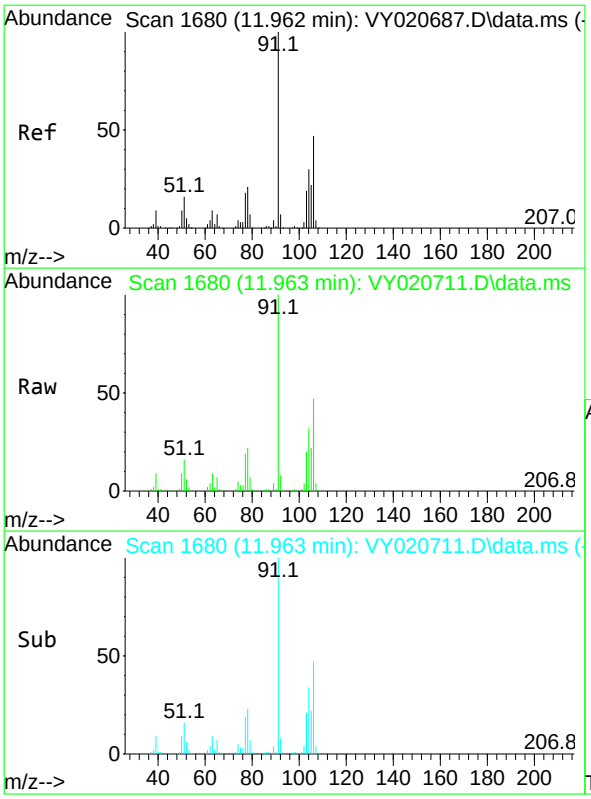



#68
m/p-Xylenes
Concen: 204.314 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:106 Resp: 366100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.8 | 166.6 | 250.0 |

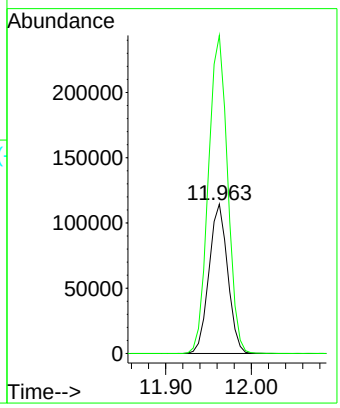





#69
o-Xylene
Concen: 101.366 ug/l
RT: 11.963 min Scan# 16
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:106 Resp: 173536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.0 | 108.6 | 325.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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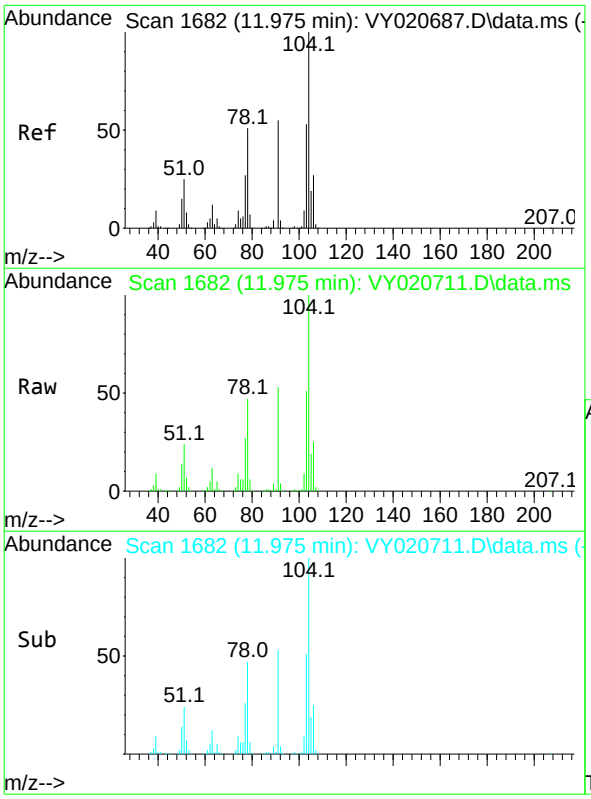
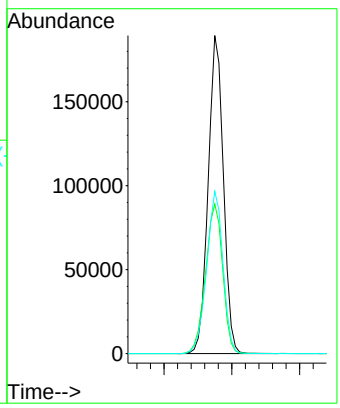
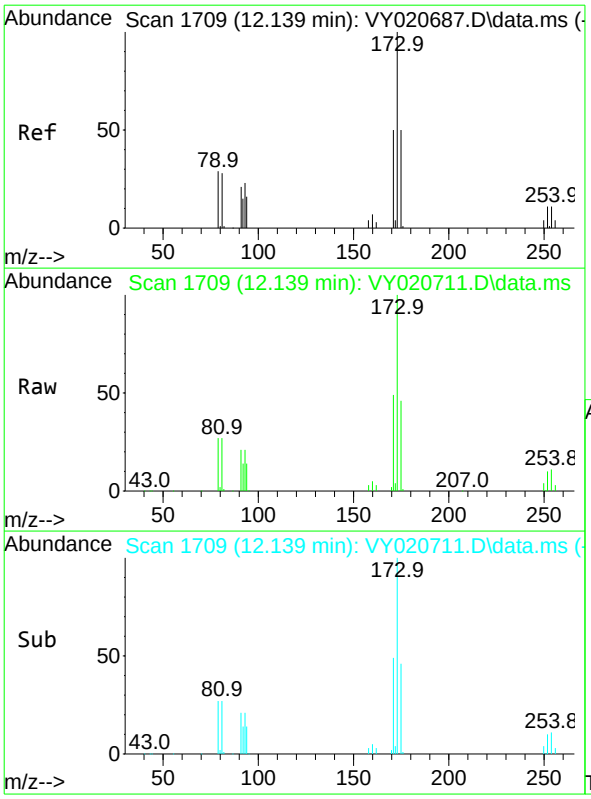



#70
Styrene
Concen: 102.647 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:104 Resp: 294999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.9 | 43.0 | 64.4 |
| 103 | 54.8 | 44.4 | 66.6 |

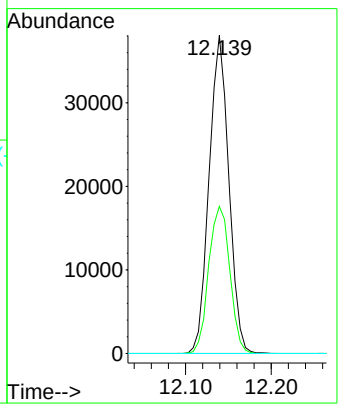





#71
Bromoform
Concen: 101.685 ug/l
RT: 12.139 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:173 Resp: 60872

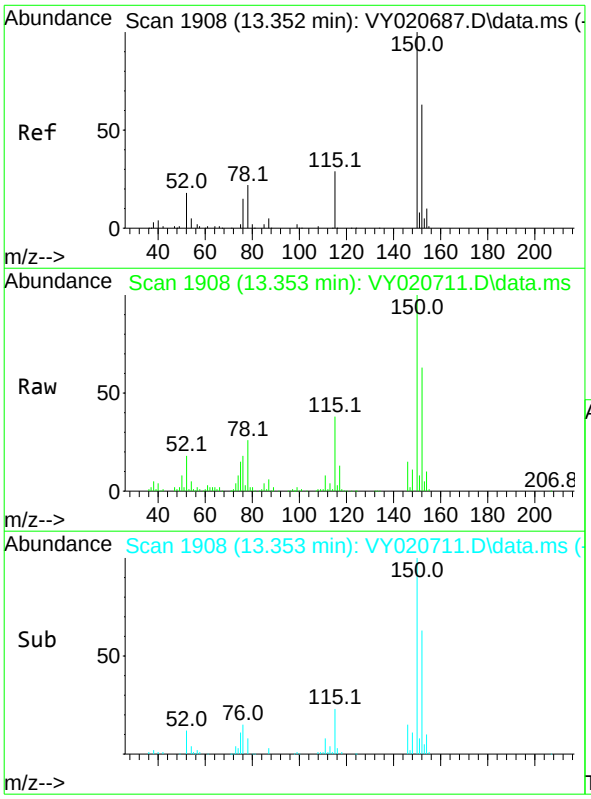
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.4 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

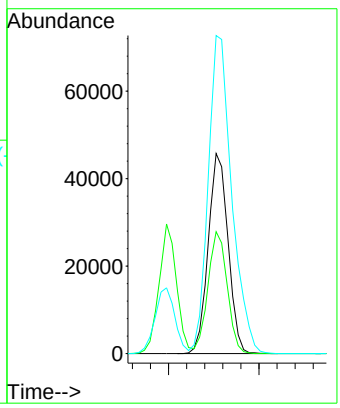
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

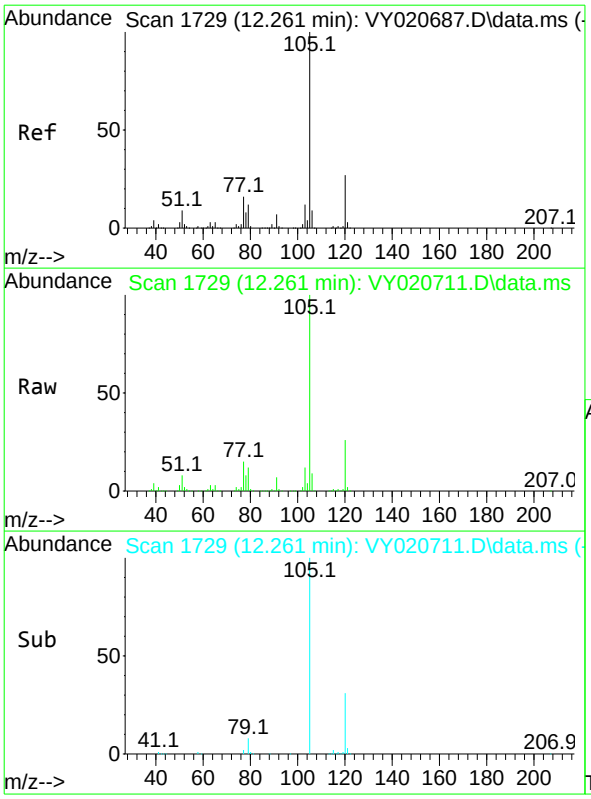



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:152 Resp: 69727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.9 | 30.3 | 90.9 |
| 150 | 188.5 | 0.0 | 349.0 |

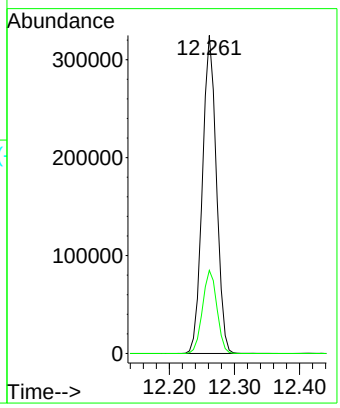





#73
Isopropylbenzene
Concen: 100.300 ug/l
RT: 12.261 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:105 Resp: 484532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 13.3 | 39.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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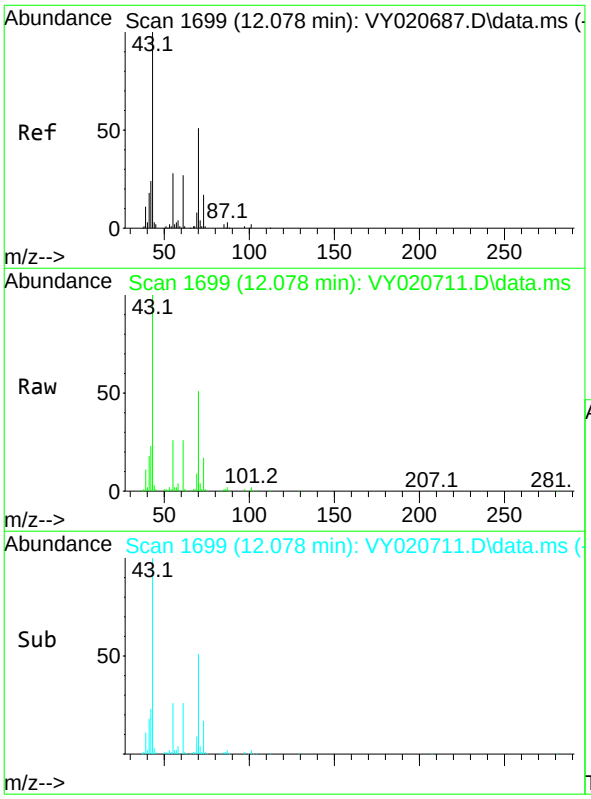
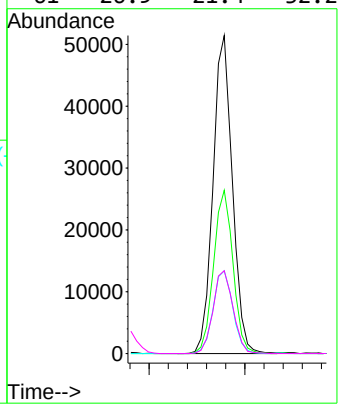
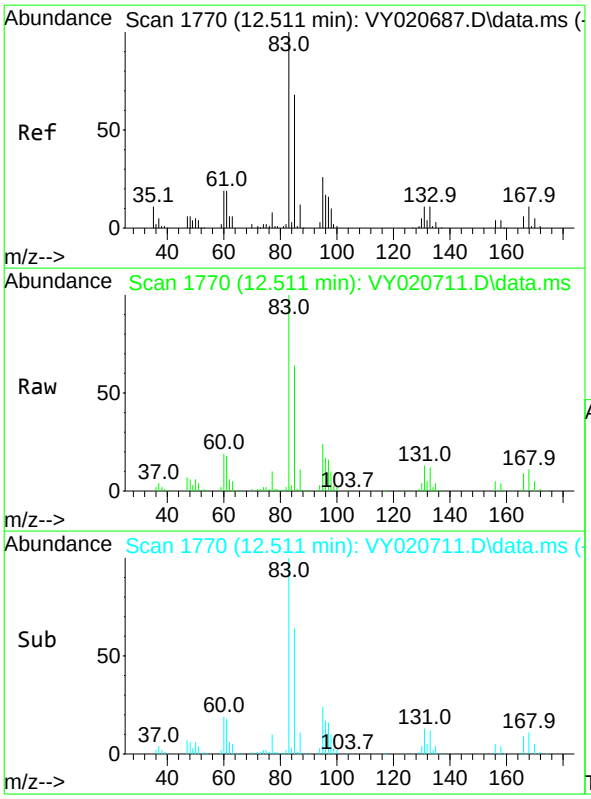



#74
N-amyl acetate
Concen: 105.221 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 72233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 51.4 | 39.7 | 59.5 |
| 55 | 26.7 | 21.5 | 32.3 |
| 61 | 26.9 | 21.4 | 32.2 |

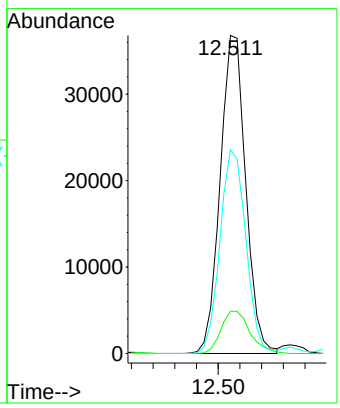





#75
1,1,2,2-Tetrachloroethane
Concen: 97.073 ug/l
RT: 12.511 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 83 Resp: 60116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 15.1 | 6.9 | 20.7 |
| 85 | 65.0 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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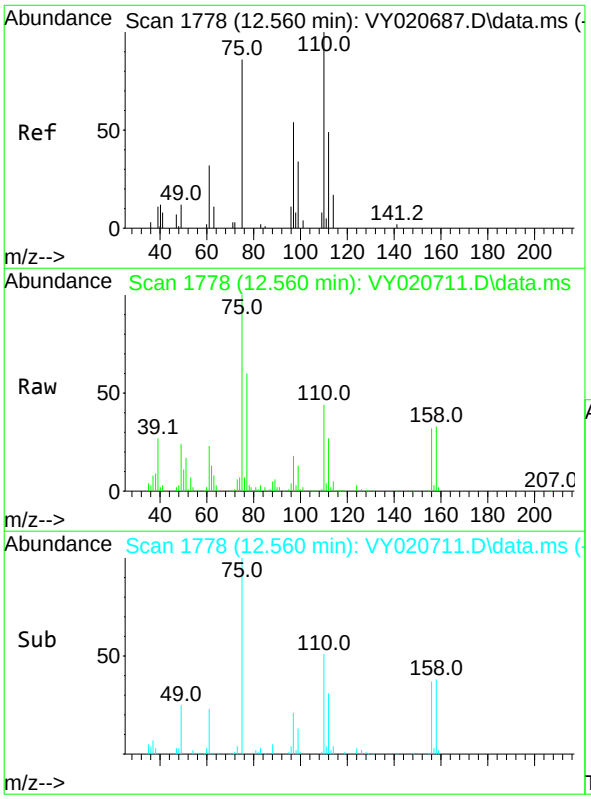
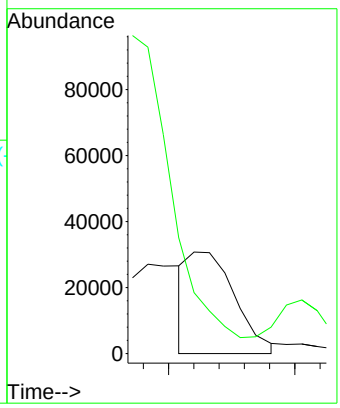
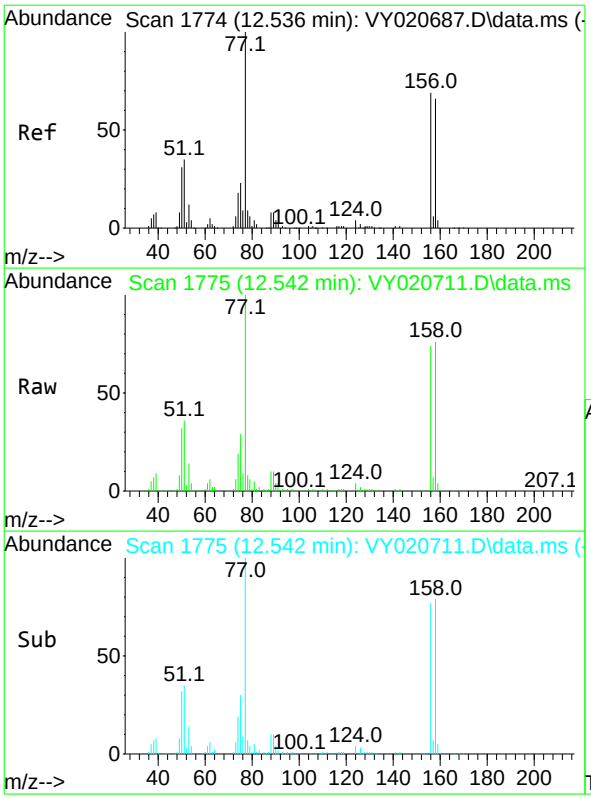



#76
1,2,3-Trichloropropane
Concen: 71.921 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 75 Resp: 39557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |






#77
Bromobenzene
Concen: 100.978 ug/l
RT: 12.542 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:156 Resp: 112291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 151.8 | 78.3 | 235.0 |
| 158 | 99.4 | 48.3 | 144.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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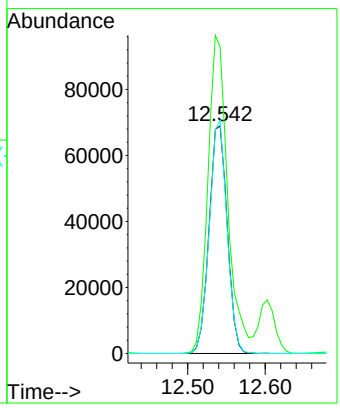
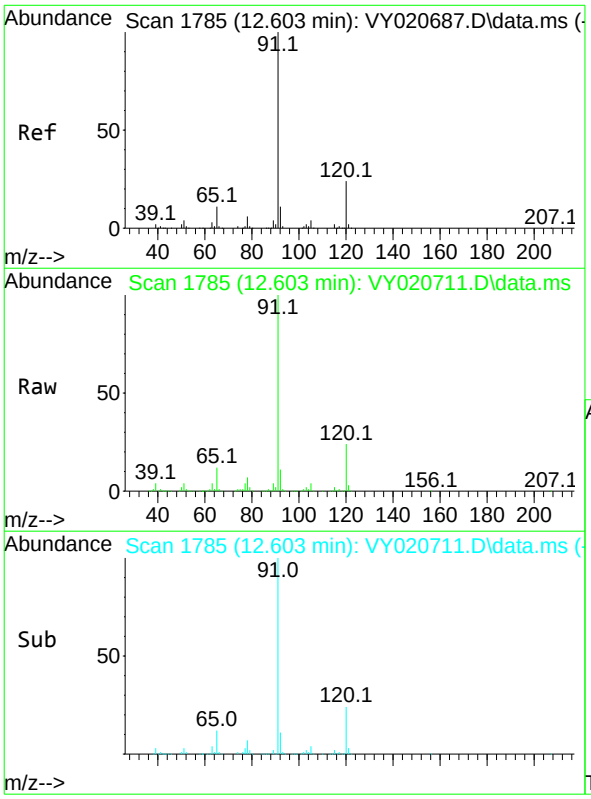
Supervised By :Semsettin Yesilyurt 12/27/2024

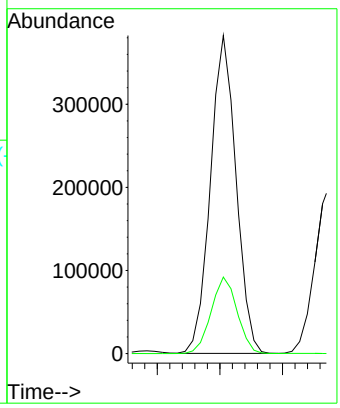


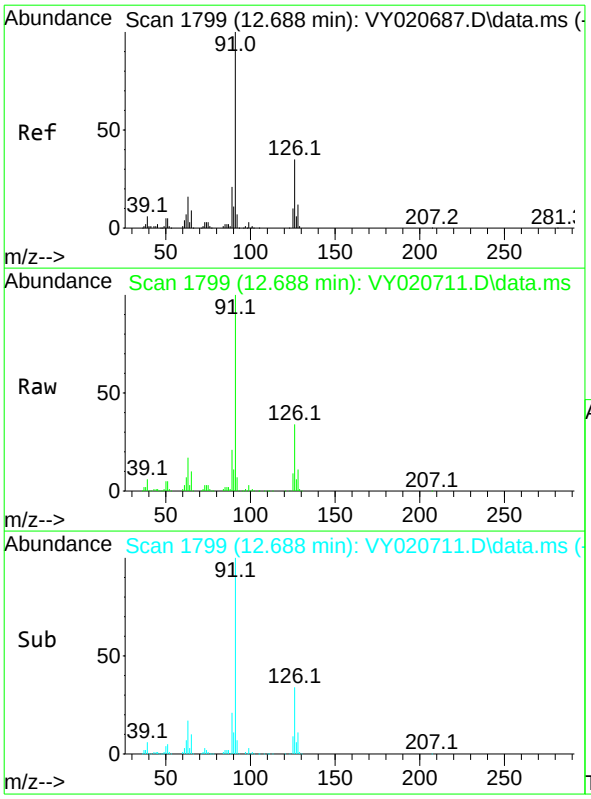




#78
n-propylbenzene
Concen: 100.496 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 91 Resp: 544130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.4 | 12.3 | 36.8 |

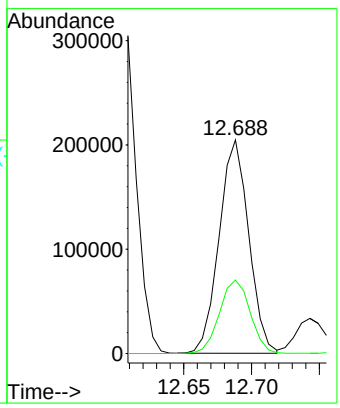





#79
2-Chlorotoluene
Concen: 100.568 ug/l
RT: 12.688 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 91 Resp: 310413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.6 | 17.8 | 53.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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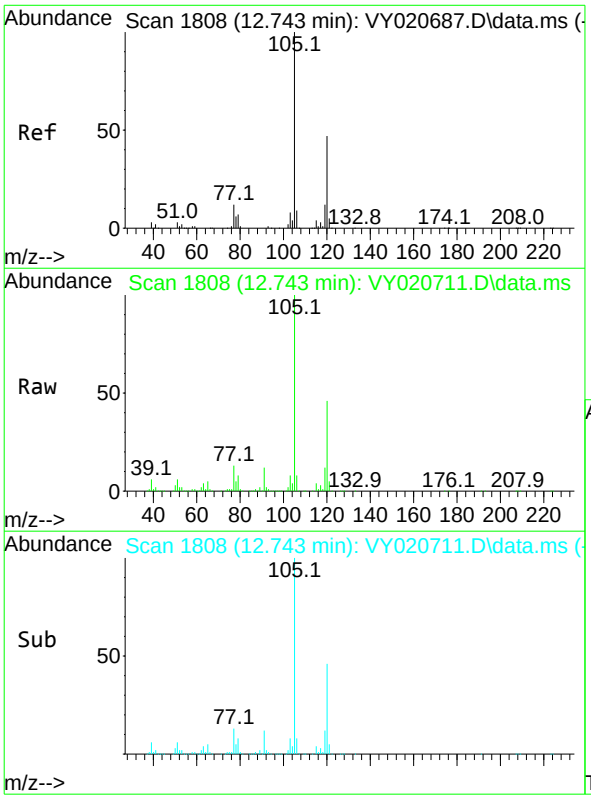
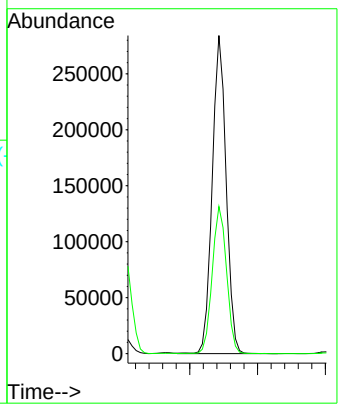
Supervised By :Semsettin Yesilyurt 12/27/2024

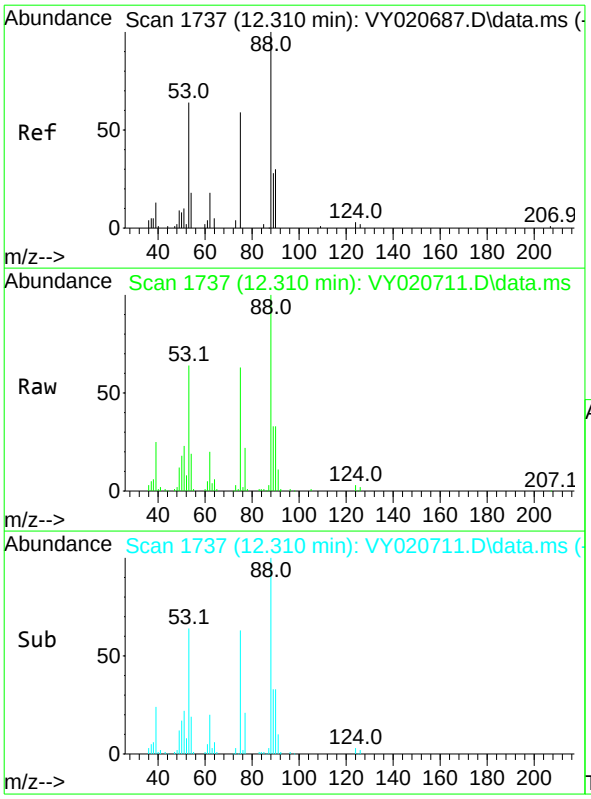



#80
1,3,5-Trimethylbenzene
Concen: 100.572 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:105 Resp: 404786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.5 | 23.9 | 71.7 |

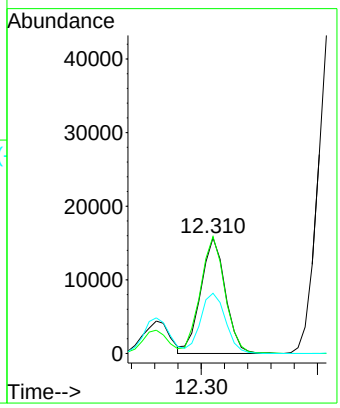





#81
trans-1,4-Dichloro-2-butene
Concen: 102.794 ug/l
RT: 12.310 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 75 Resp: 23063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 101.5 | 83.1 | 124.7 |
| 89 | 53.0 | 40.6 | 61.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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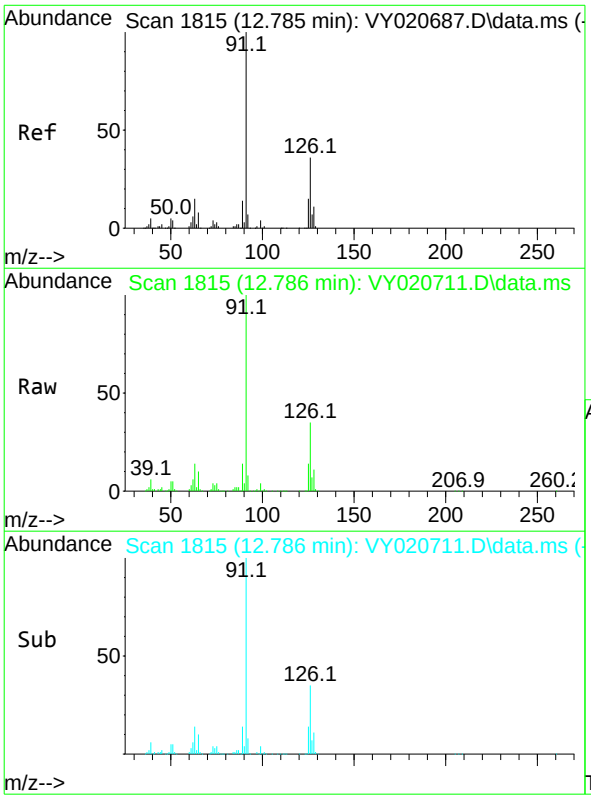
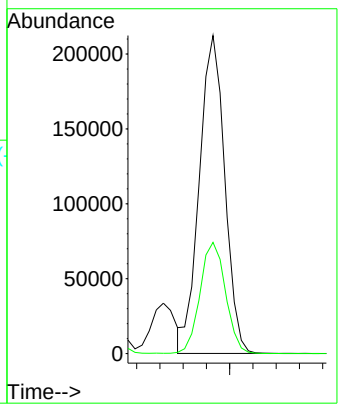
Supervised By :Semsettin Yesilyurt 12/27/2024

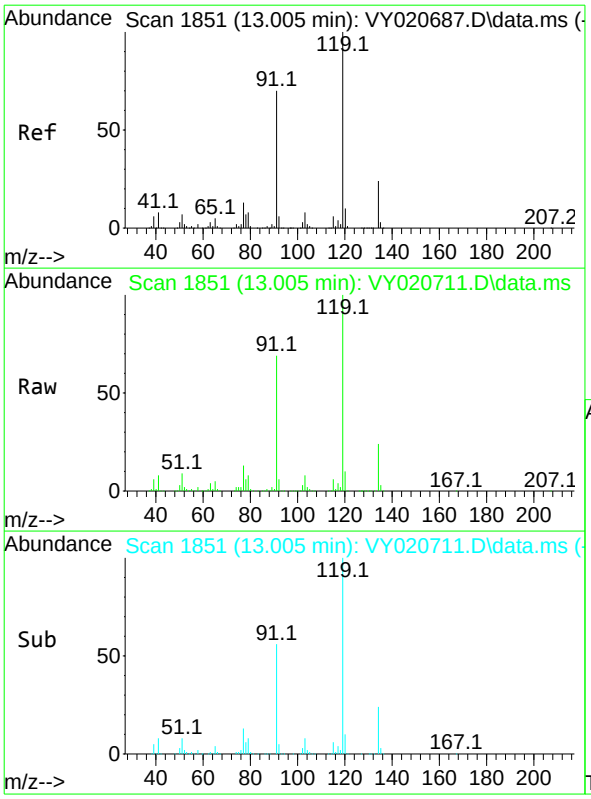



#82
4-Chlorotoluene
Concen: 101.007 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 91 Resp: 322204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.2 | 17.8 | 53.5 |






#83
tert-Butylbenzene
Concen: 99.709 ug/l
RT: 13.005 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:119 Resp: 374773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.2 | 33.6 | 100.8 |
| 134 | 26.7 | 13.4 | 40.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

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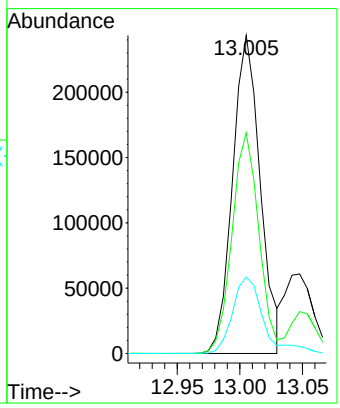
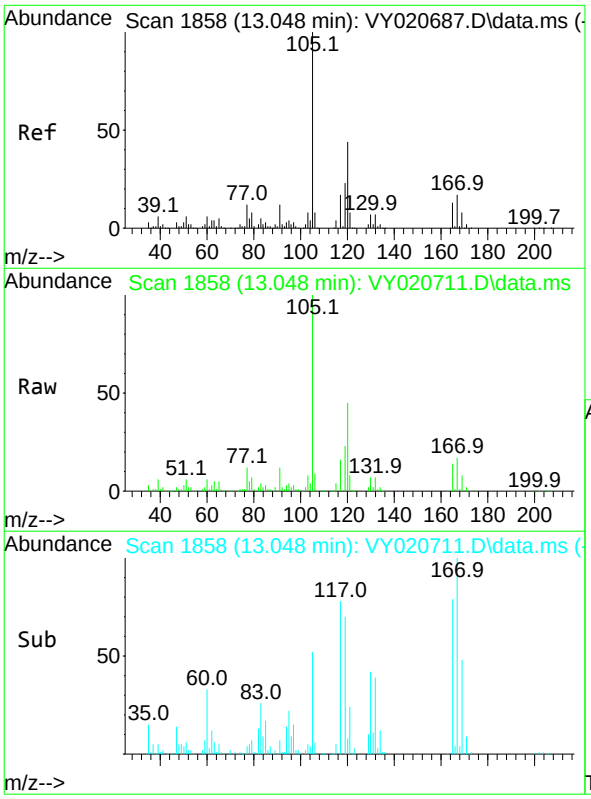
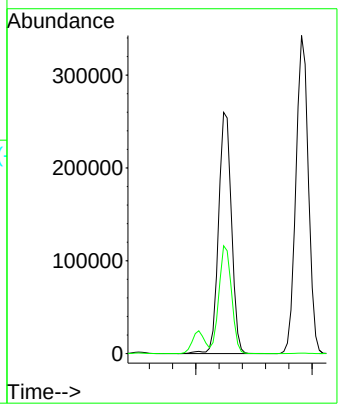


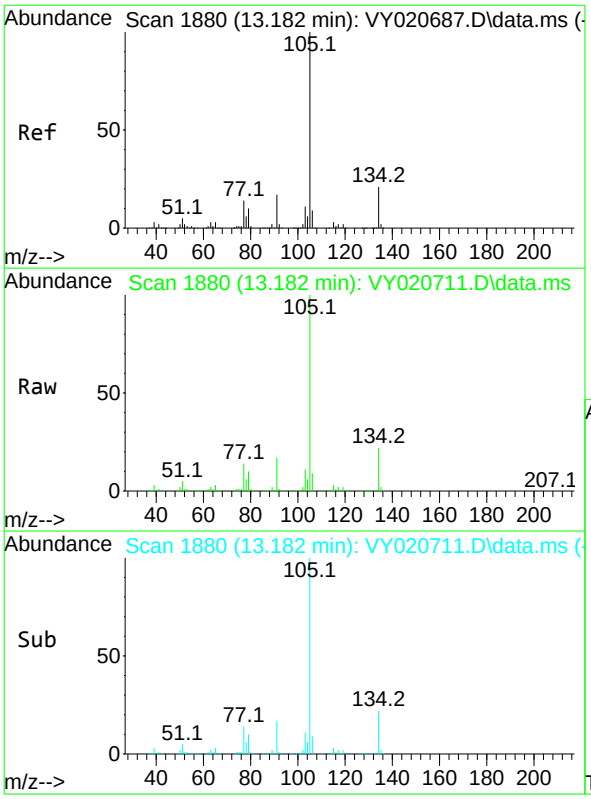




#84
1,2,4-Trimethylbenzene
Concen: 102.079 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:105 Resp: 399805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.8 | 21.8 | 65.3 |

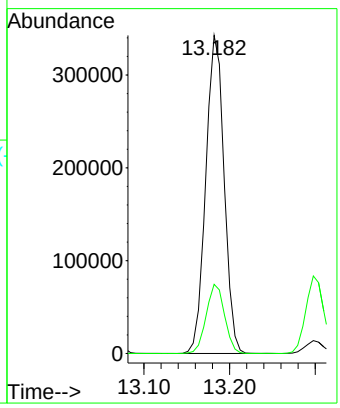





#85
sec-Butylbenzene
Concen: 100.564 ug/l
RT: 13.182 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:105 Resp: 509425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.8 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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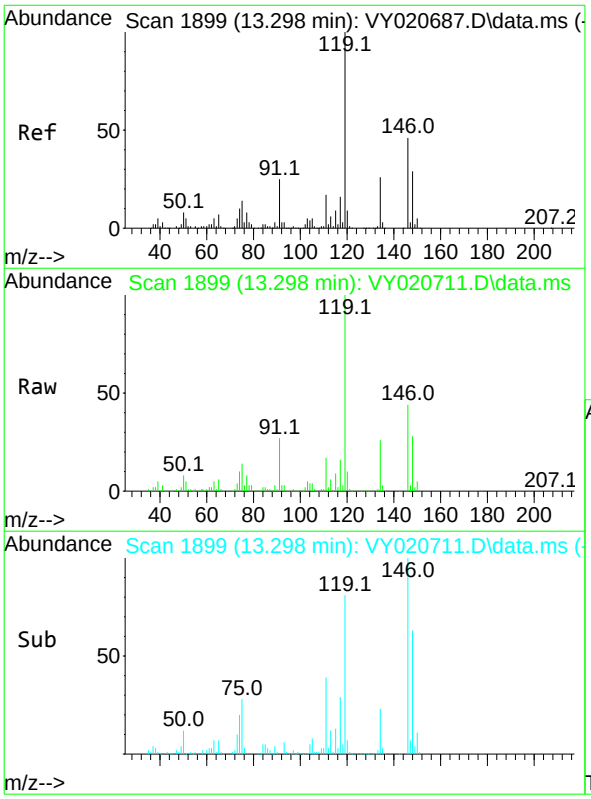
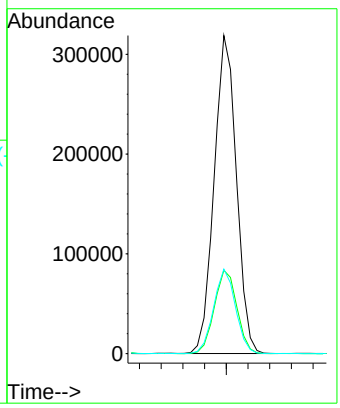
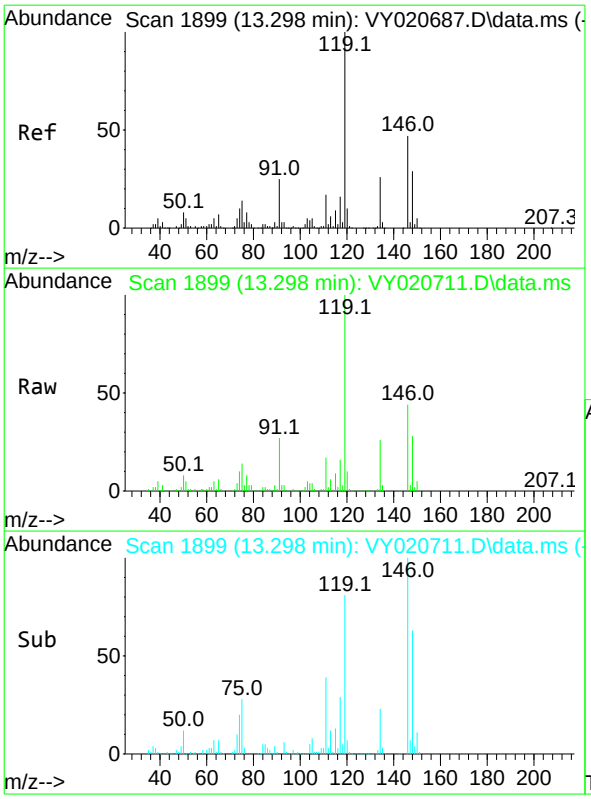



#86
p-Isopropyltoluene
Concen: 100.661 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:119 Resp: 454433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.4 | 40.2 |
| 91 | 26.0 | 12.9 | 38.6 |

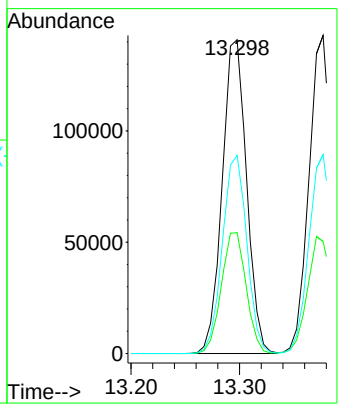





#87
1,3-Dichlorobenzene
Concen: 101.283 ug/l
RT: 13.298 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:146 Resp: 220131

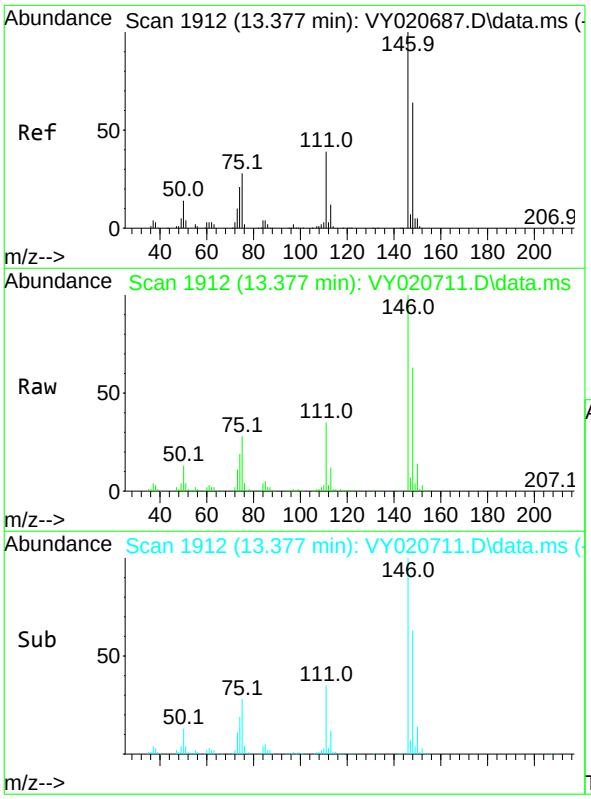
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.3 | 57.8 |
| 148 | 63.3 | 31.1 | 93.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

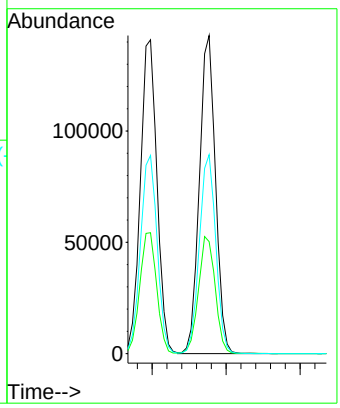
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

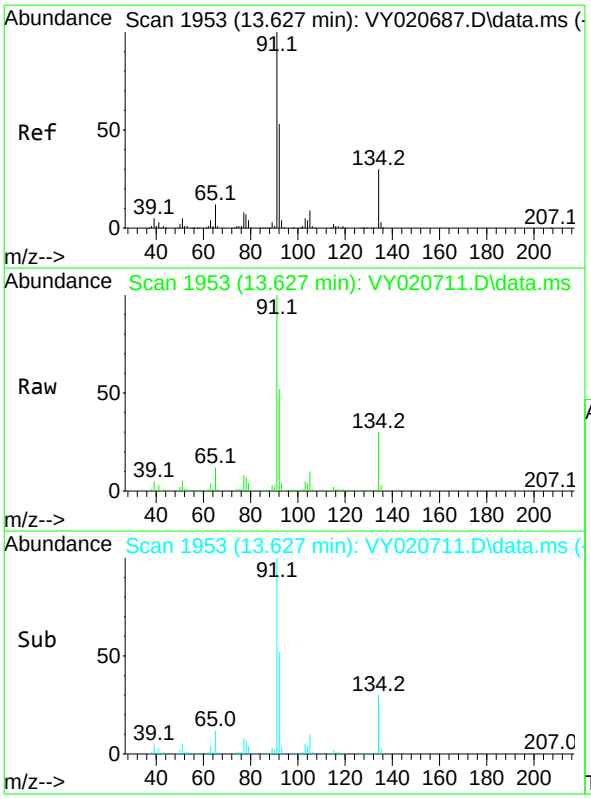



#88
1,4-Dichlorobenzene
Concen: 99.911 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:146 Resp: 216013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.1 | 19.7 | 59.0 |
| 148 | 63.8 | 32.8 | 98.3 |

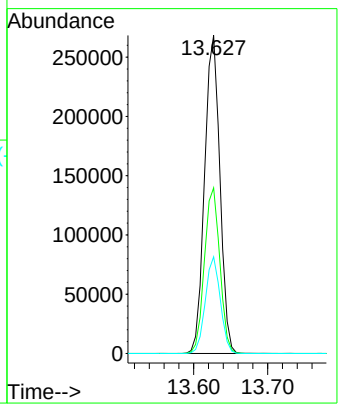





#89
n-Butylbenzene
Concen: 102.152 ug/l
RT: 13.627 min Scan# 19
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 91 Resp: 384958

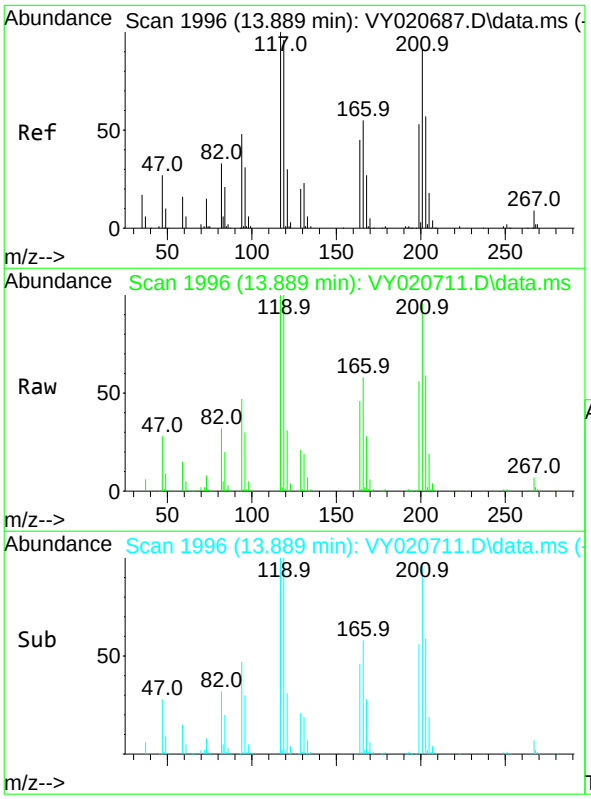
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.3 | 26.1 | 78.2 |
| 134 | 29.7 | 14.8 | 44.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

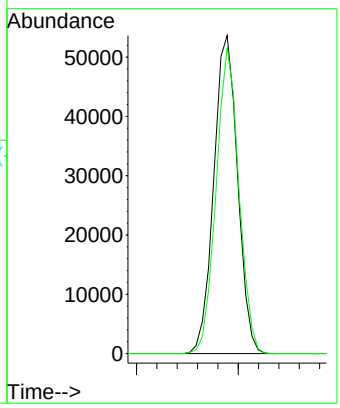
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

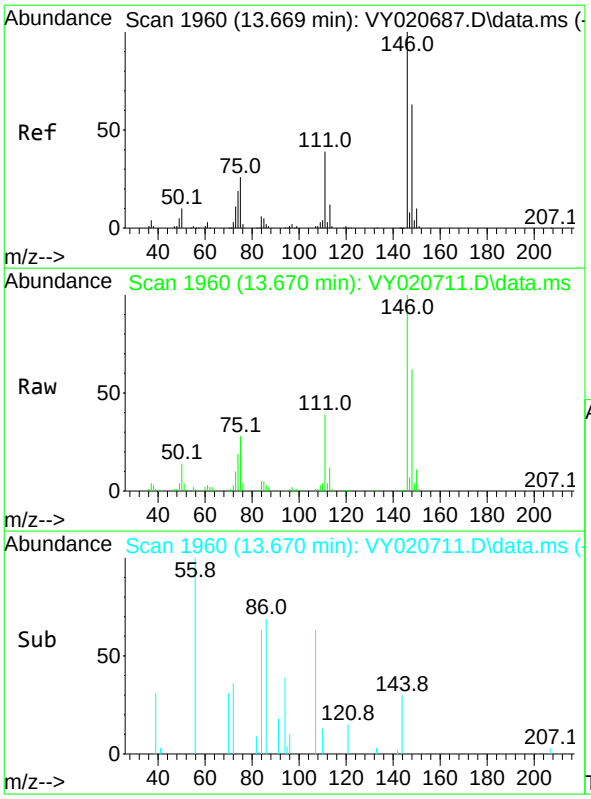



#90
Hexachloroethane
Concen: 101.535 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:117 Resp: 87162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 92.2 | 44.9 | 134.7 |

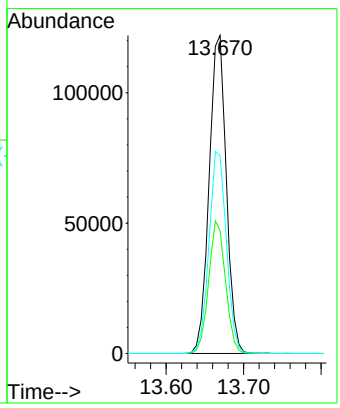





#91
1,2-Dichlorobenzene
Concen: 100.778 ug/l
RT: 13.670 min Scan# 19
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:146 Resp: 187803

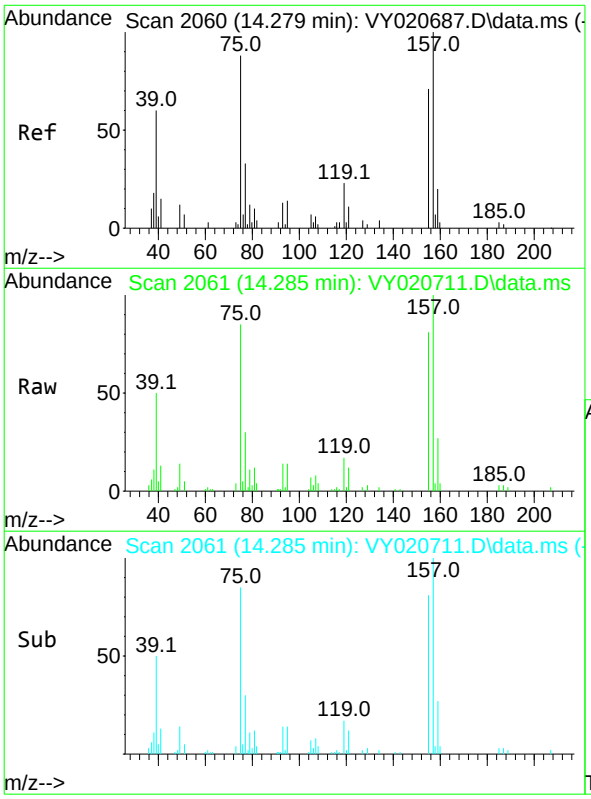
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.3 | 60.8 |
| 148 | 64.5 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

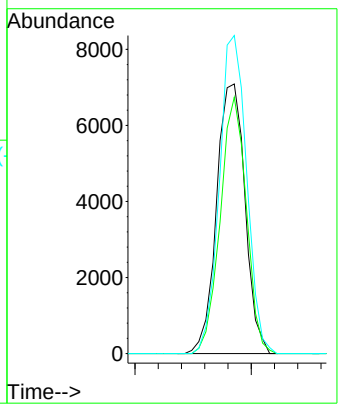
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

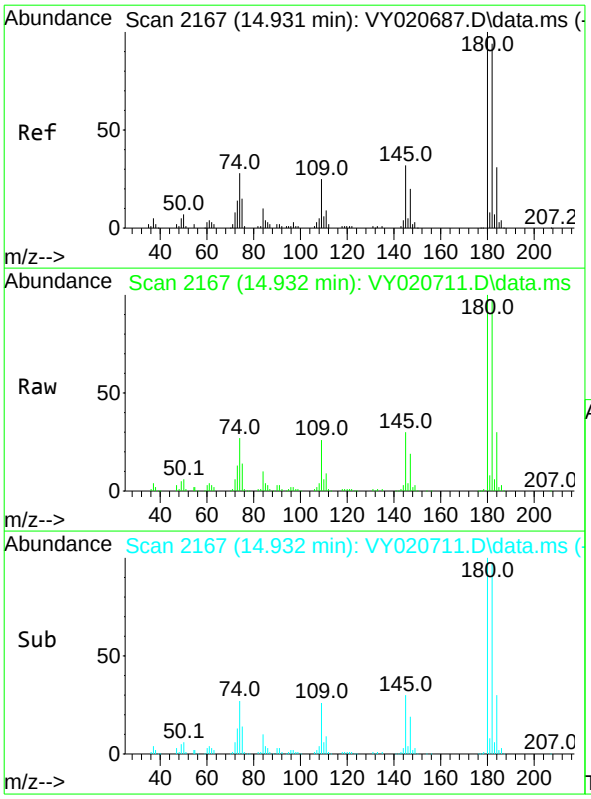



#92
1,2-Dibromo-3-Chloropropane
Concen: 100.298 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 75 Resp: 12047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.1 | 43.4 | 130.2 |
| 157 | 113.0 | 58.6 | 175.7 |

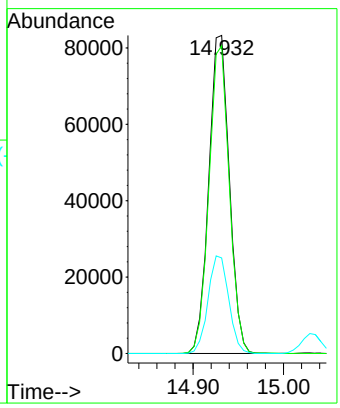





#93
1,2,4-Trichlorobenzene
Concen: 111.184 ug/l
RT: 14.932 min Scan# 21
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:180 Resp: 131697

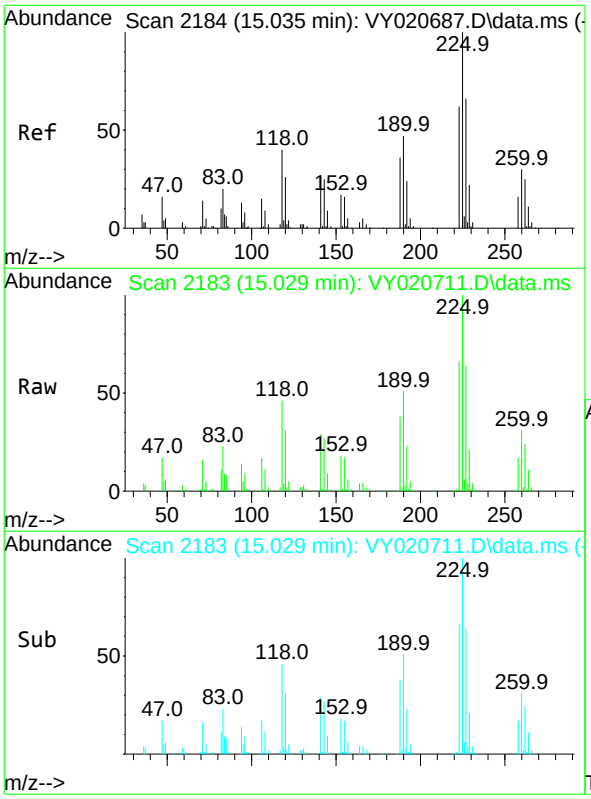
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.9 | 143.7 |
| 145 | 30.8 | 15.6 | 46.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

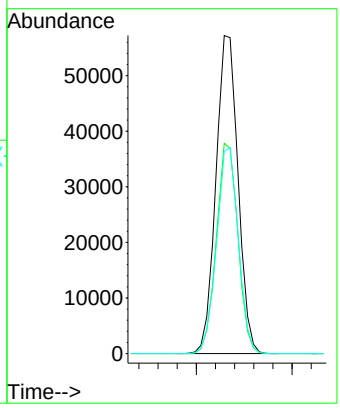
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

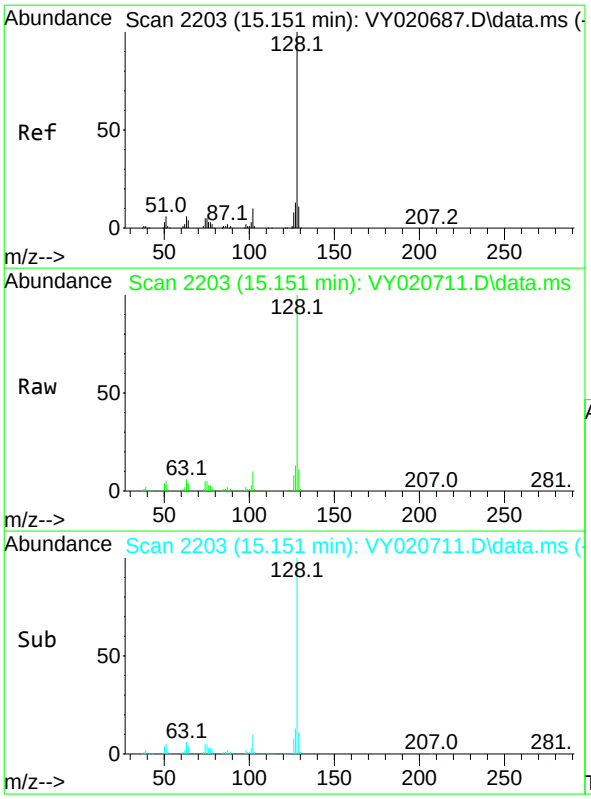



#94
Hexachlorobutadiene
Concen: 106.228 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:225 Resp: 91705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.4 | 31.3 | 93.8 |
| 227 | 63.6 | 32.1 | 96.5 |

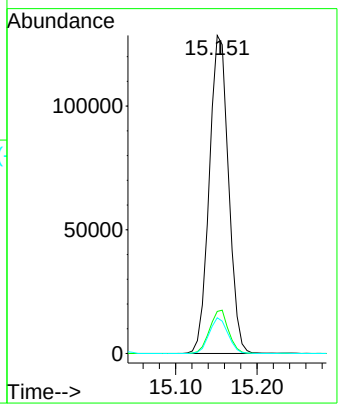





#95
Naphthalene
Concen: 111.196 ug/l
RT: 15.151 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:128 Resp: 210953

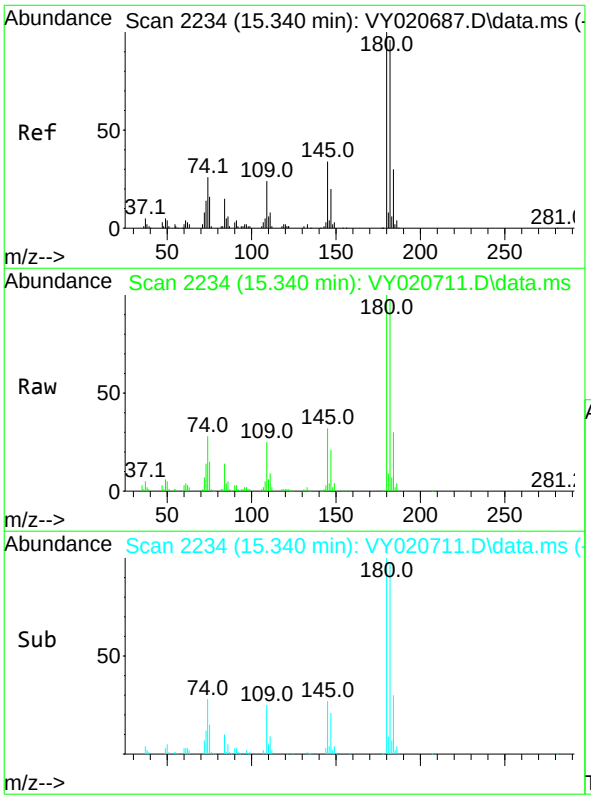
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.7 | 16.1 |
| 129 | 10.9 | 8.6 | 12.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

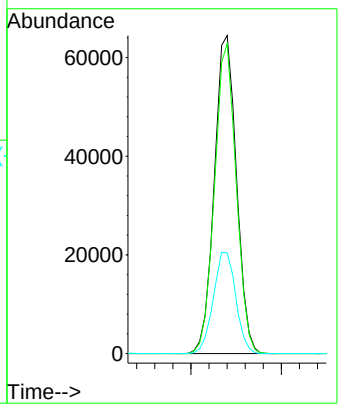
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024




#96
1,2,3-Trichlorobenzene
Concen: 111.325 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:180 Resp: 109793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 47.4 | 142.2 |
| 145 | 32.3 | 16.7 | 50.1 |



ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 116912 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.621 | 114 | 160856 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 136421 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.358 | 152 | 70383 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 50667 | 52.910 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 105.820% | | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 46763 | 52.779 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 105.560% | | | | |
| 50) Toluene-d8 | 10.115 | 98 | 184089 | 52.171 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.340% | | | | |
| 62) 4-Bromofluorobenzene | 12.413 | 95 | 62660 | 53.215 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 106.440% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 43692 | 47.479 | ug/l | | 98 |
| 3) Chloromethane | 2.080 | 50 | 18877 | 55.003 | ug/l | | 99 |
| 4) Vinyl Chloride | 2.214 | 62 | 21107 | 49.638 | ug/l | | 97 |
| 5) Bromomethane | 2.610 | 94 | 16385 | 51.036 | ug/l | | 92 |
| 6) Chloroethane | 2.750 | 64 | 13110 | 51.394 | ug/l | | 100 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 79960 | 48.899 | ug/l | | 100 |
| 8) Diethyl Ether | 3.470 | 74 | 19539 | 50.215 | ug/l | | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 43422 | 48.370 | ug/l | | 98 |
| 10) Methyl Iodide | 4.019 | 142 | 50185 | 51.123 | ug/l | | 99 |
| 11) Tert butyl alcohol | 4.878 | 59 | 12665 | 208.224 | ug/l | # | 85 |
| 12) 1,1-Dichloroethene | 3.805 | 96 | 39605 | 49.566 | ug/l | | 99 |
| 13) Acrolein | 3.677 | 56 | 2881 | 143.918 | ug/l | | 97 |
| 14) Allyl chloride | 4.403 | 41 | 47747 | 51.064 | ug/l | | 96 |
| 15) Acrylonitrile | 5.073 | 53 | 34113 | 226.940 | ug/l | | 99 |
| 16) Acetone | 3.878 | 43 | 25249 | 207.840 | ug/l | | 99 |
| 17) Carbon Disulfide | 4.122 | 76 | 103010 | 52.554 | ug/l | | 99 |
| 18) Methyl Acetate | 4.403 | 43 | 15970 | 48.572 | ug/l | | 100 |
| 19) Methyl tert-butyl Ether | 5.134 | 73 | 106703 | 47.911 | ug/l | | 100 |
| 20) Methylene Chloride | 4.628 | 84 | 39747 | 50.306 | ug/l | | 90 |
| 21) trans-1,2-Dichloroethene | 5.134 | 96 | 43912 | 50.999 | ug/l | | 98 |
| 22) Diisopropyl ether | 6.030 | 45 | 95914 | 50.460 | ug/l | | 98 |
| 23) Vinyl Acetate | 5.976 | 43 | 275873 | 242.987 | ug/l | | 100 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 72030 | 50.544 | ug/l | | 99 |
| 25) 2-Butanone | 6.908 | 43 | 36966 | 225.260 | ug/l | | 97 |
| 26) 2,2-Dichloropropane | 6.902 | 77 | 82553 | 47.328 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 6.908 | 96 | 51212 | 49.666 | ug/l | | 98 |
| 28) Bromochloromethane | 7.262 | 49 | 20413 | 54.165 | ug/l | | 90 |
| 29) Tetrahydrofuran | 7.280 | 42 | 22616 | 224.521 | ug/l | | 95 |
| 30) Chloroform | 7.433 | 83 | 88644 | 48.353 | ug/l | | 95 |
| 31) Cyclohexane | 7.713 | 56 | 55329 | 44.979 | ug/l | | 94 |
| 32) 1,1,1-Trichloroethane | 7.634 | 97 | 95277 | 48.484 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 57746 | 49.340 | ug/l | | 99 |
| 37) Ethyl Acetate | 7.000 | 43 | 18046 | 46.791 | ug/l | | 97 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 94603 | 49.087 | ug/l | | 98 |
| 39) Methylcyclohexane | 9.121 | 83 | 76295 | 50.860 | ug/l | | 95 |
| 40) Benzene | 8.091 | 78 | 173716 | 51.214 | ug/l | | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.237 | 41 | 9136 | 46.896 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.170 | 62 | 52925 | 48.661 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 38101 | 46.479 | ug/l | | 97 |
| 44) Trichloroethene | 8.877 | 130 | 50355 | 49.703 | ug/l | | 92 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 34051 | 49.593 | ug/l | | 99 |
| 46) Dibromomethane | 9.237 | 93 | 22170 | 46.666 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.432 | 83 | 65991 | 48.995 | ug/l | | 94 |
| 48) Methyl methacrylate | 9.231 | 41 | 17544 | 45.829 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.237 | 88 | 4519 | 998.617 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 10.005 | 43 | 91062 | 230.147 | ug/l | | 99 |
| 52) Toluene | 10.182 | 92 | 119622 | 51.455 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 57734 | 48.805 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 64766 | 49.949 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.578 | 97 | 29233 | 48.206 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.444 | 69 | 37050 | 46.506 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 48458 | 49.234 | ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 67974 | 244.679 | ug/l | | 97 |
| 59) 2-Hexanone | 10.767 | 43 | 59853 | 229.110 | ug/l | | 97 |
| 60) Dibromochloromethane | 10.920 | 129 | 47597 | 48.574 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.023 | 107 | 27610 | 48.387 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.658 | 164 | 46724 | 50.131 | ug/l | | 95 |
| 65) Chlorobenzene | 11.450 | 112 | 133203 | 49.866 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.523 | 131 | 52397 | 50.630 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.529 | 91 | 238810 | 51.151 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.639 | 106 | 183706 | 103.152 | ug/l | | 98 |
| 69) o-Xylene | 11.962 | 106 | 86833 | 51.032 | ug/l | | 99 |
| 70) Styrene | 11.981 | 104 | 144868 | 50.717 | ug/l | | 99 |
| 71) Bromoform | 12.139 | 173 | 28995 | 48.733 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 242449 | 49.720 | ug/l | | 99 |
| 74) N-amyl acetate | 12.078 | 43 | 33272 | 48.015 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 29166 | 46.657 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 20390m | 45.549 | ug/l | | |
| 77) Bromobenzene | 12.541 | 156 | 56640 | 50.459 | ug/l | | 96 |
| 78) n-propylbenzene | 12.602 | 91 | 273917 | 50.119 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 154710 | 49.656 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 205116 | 50.488 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 11017 | 48.646 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.785 | 91 | 161536 | 50.168 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 188052 | 49.565 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 203012 | 51.350 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.188 | 105 | 258622 | 50.578 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.303 | 119 | 230385 | 50.557 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.297 | 146 | 108941 | 49.657 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 107603 | 49.305 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 194314 | 51.082 | ug/l | | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 42996 | 49.619 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.669 | 146 | 95132 | 50.573 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 5601 | 46.197 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.931 | 180 | 62409 | 52.197 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 44277 | 50.811 | ug/l | | 98 |
| 95) Naphthalene | 15.157 | 128 | 94983 | 49.600 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 51411 | 51.643 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

ICAL Form

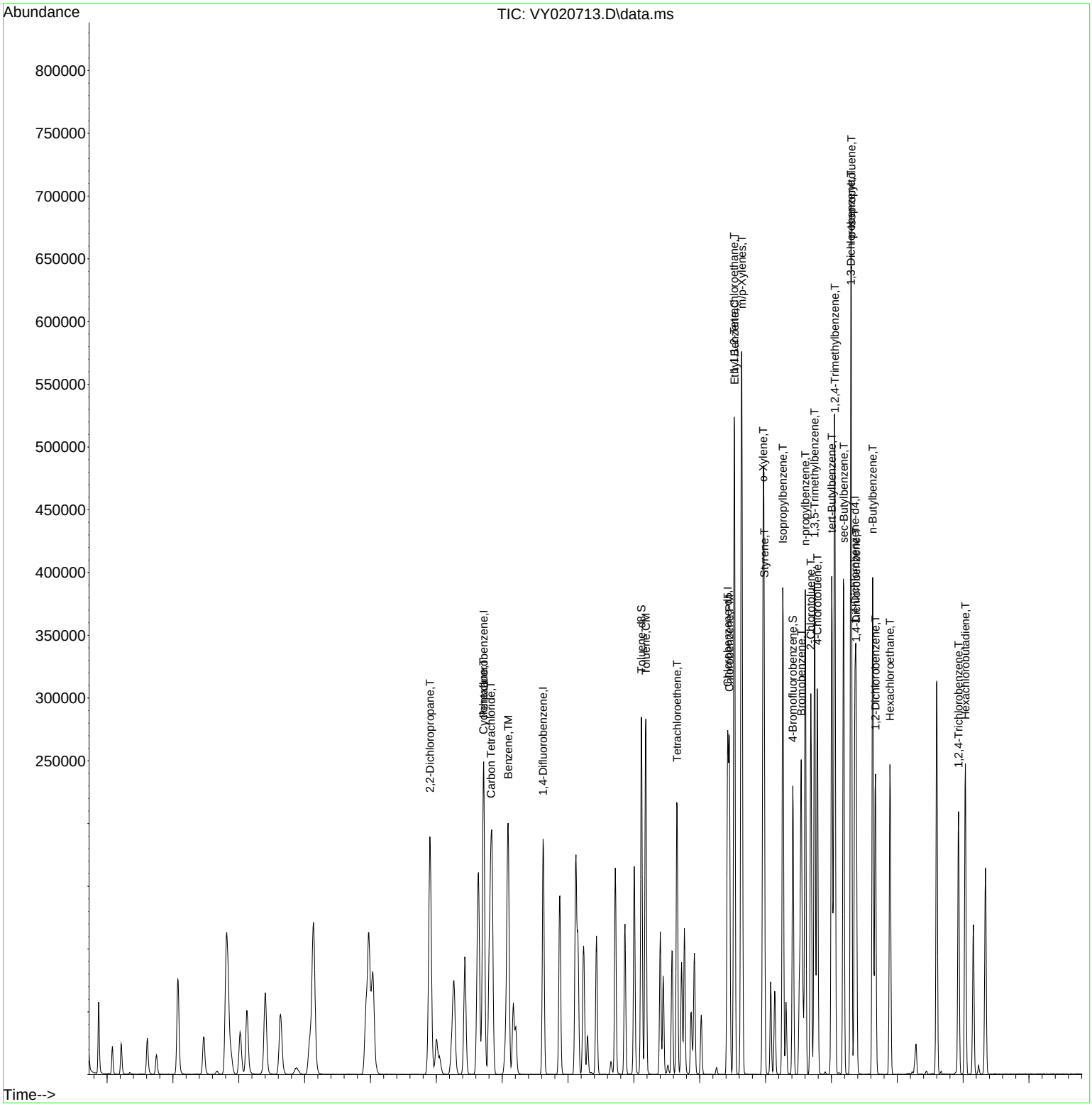
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

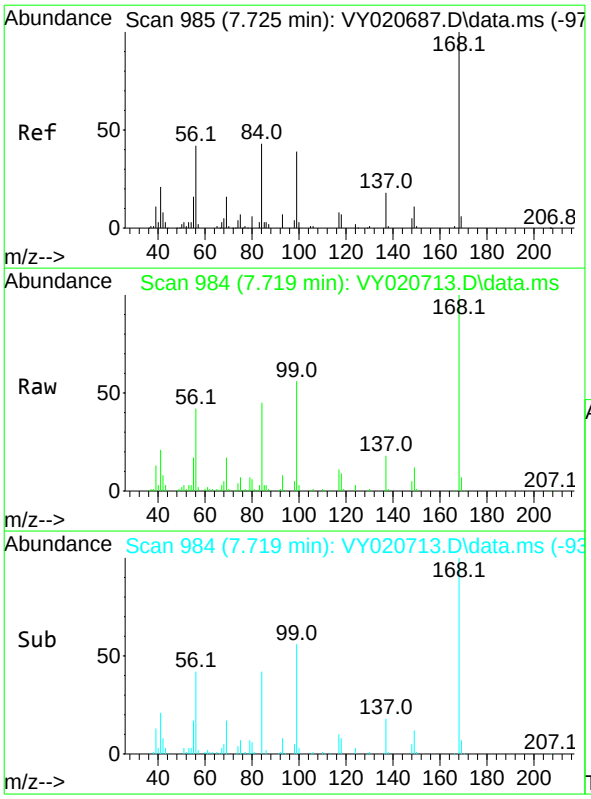
Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

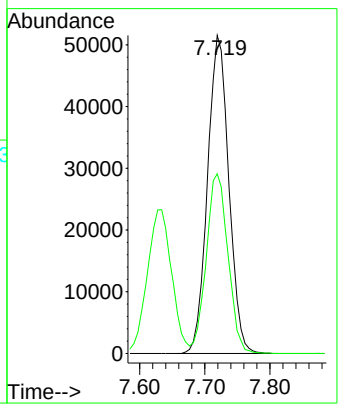





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:168 Resp: 116912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.5 | 43.8 | 65.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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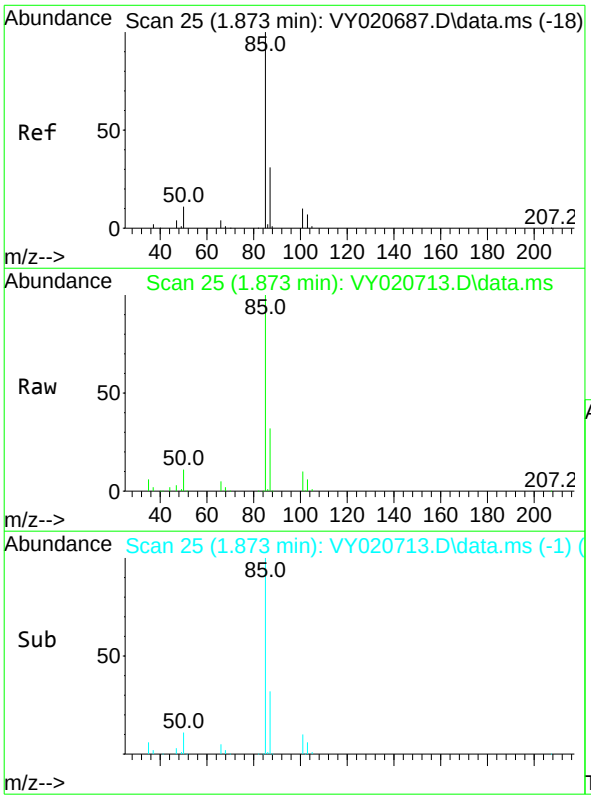
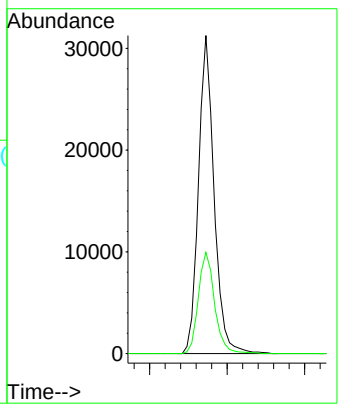
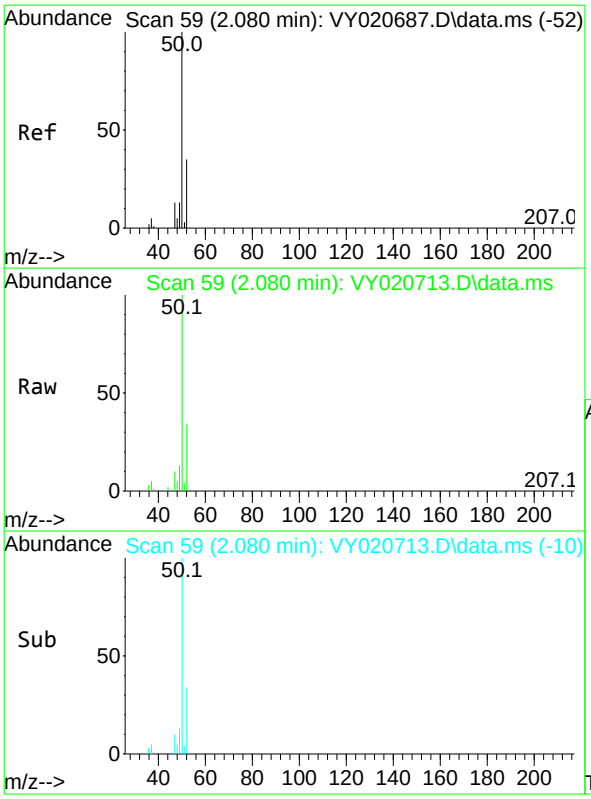



#2
Dichlorodifluoromethane
Concen: 47.479 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 85 Resp: 43692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 15.4 | 46.4 |

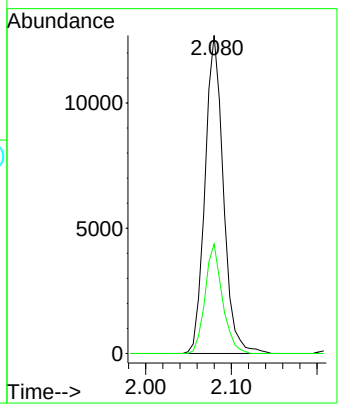





#3
Chloromethane
Concen: 55.003 ug/l
RT: 2.080 min Scan# 59
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 50 Resp: 18877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.4 | 28.2 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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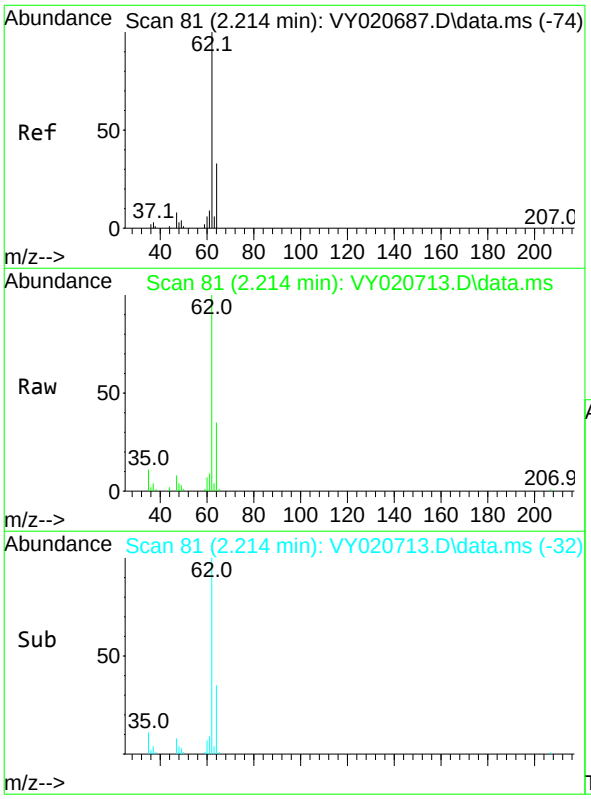
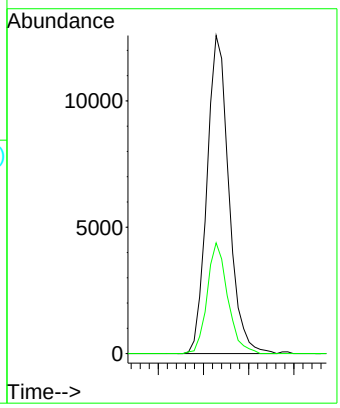
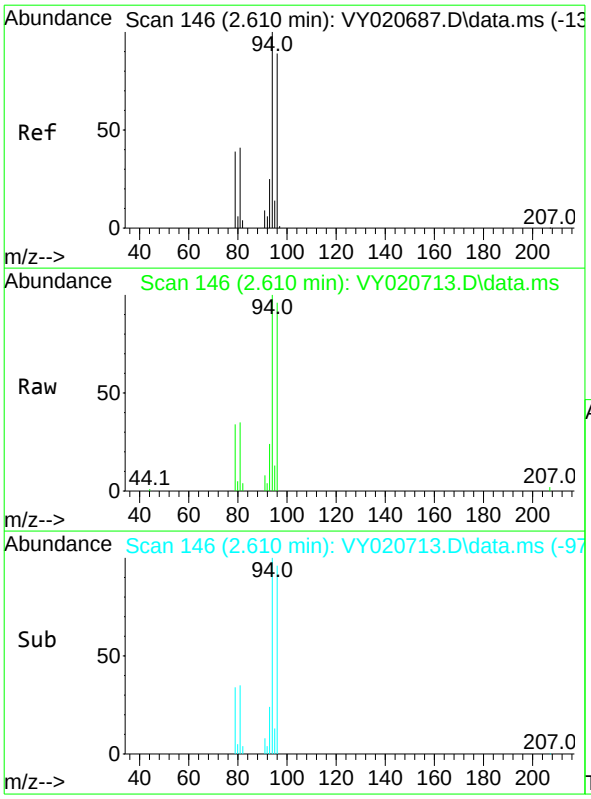



#4
Vinyl Chloride
Concen: 49.638 ug/l
RT: 2.214 min Scan# 81
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 62 Resp: 21107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.8 | 26.6 | 40.0 |

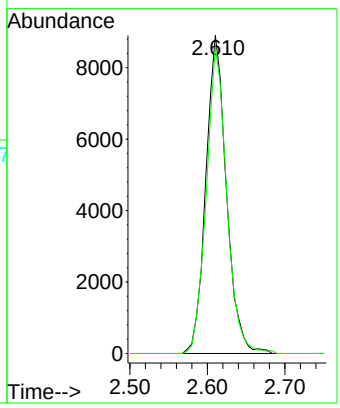





#5
Bromomethane
Concen: 51.036 ug/l
RT: 2.610 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 94 Resp: 16385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.2 | 71.0 | 106.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

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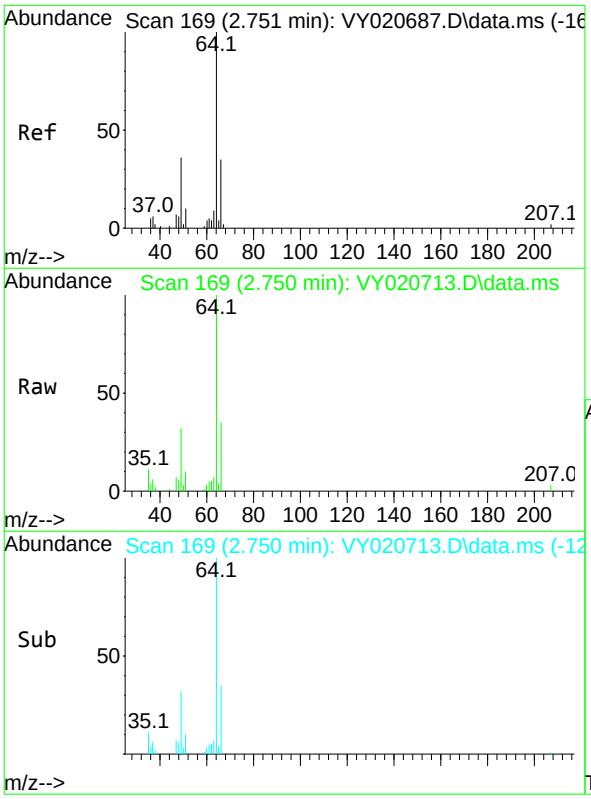
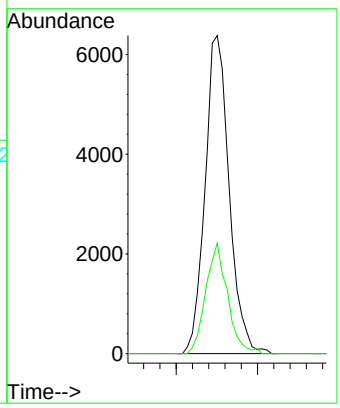
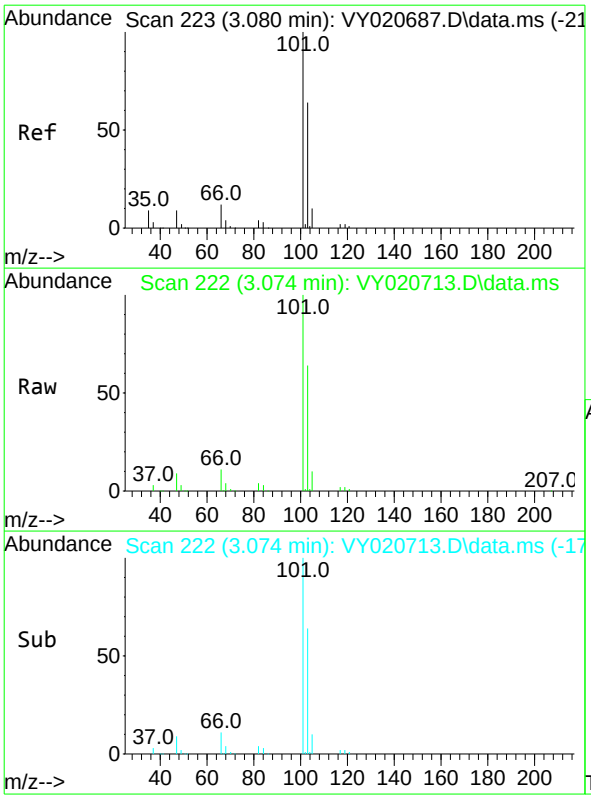



#6
Chloroethane
Concen: 51.394 ug/l
RT: 2.750 min Scan# 169
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 64 Resp: 13110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.8 | 27.8 | 41.8 |

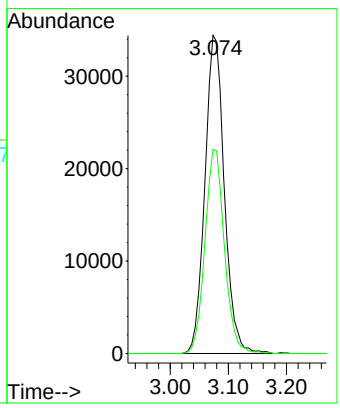





#7
Trichlorofluoromethane
Concen: 48.899 ug/l
RT: 3.074 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:101 Resp: 79960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.2 | 51.4 | 77.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

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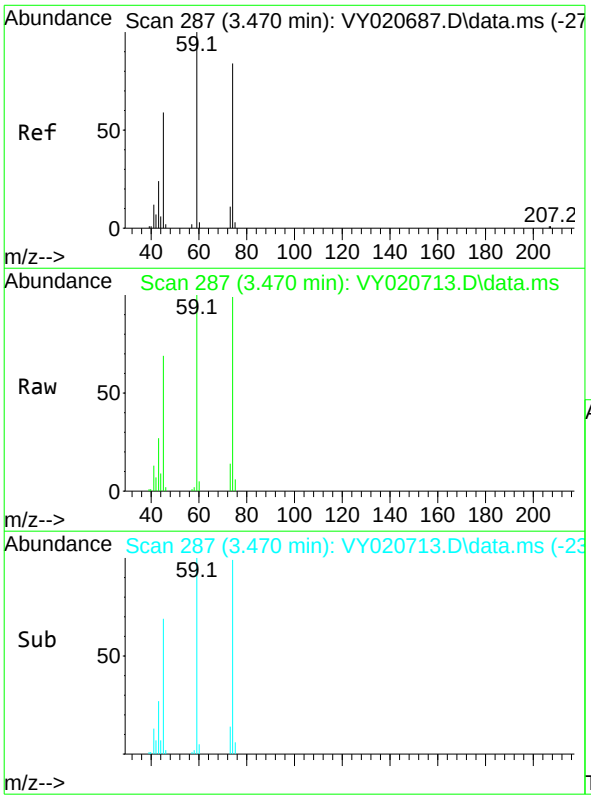
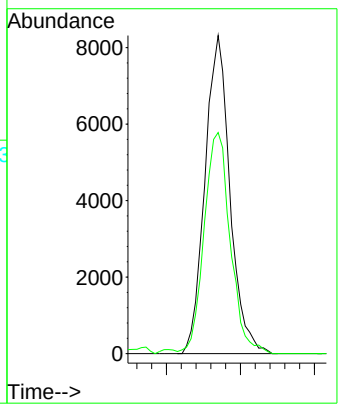
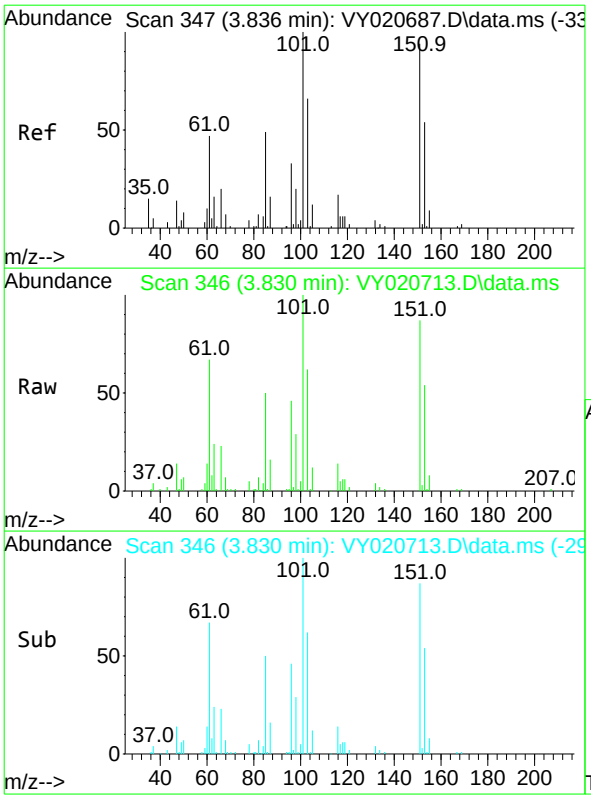



#8
Diethyl Ether
Concen: 50.215 ug/l
RT: 3.470 min Scan# 287
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 74 Resp: 19539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 72.6 | 35.8 | 107.4 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.370 ug/l
RT: 3.830 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:101 Resp: 43422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.2 | 38.2 | 57.2 |
| 151 | 88.1 | 68.4 | 102.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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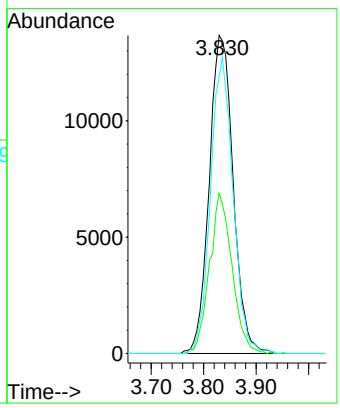
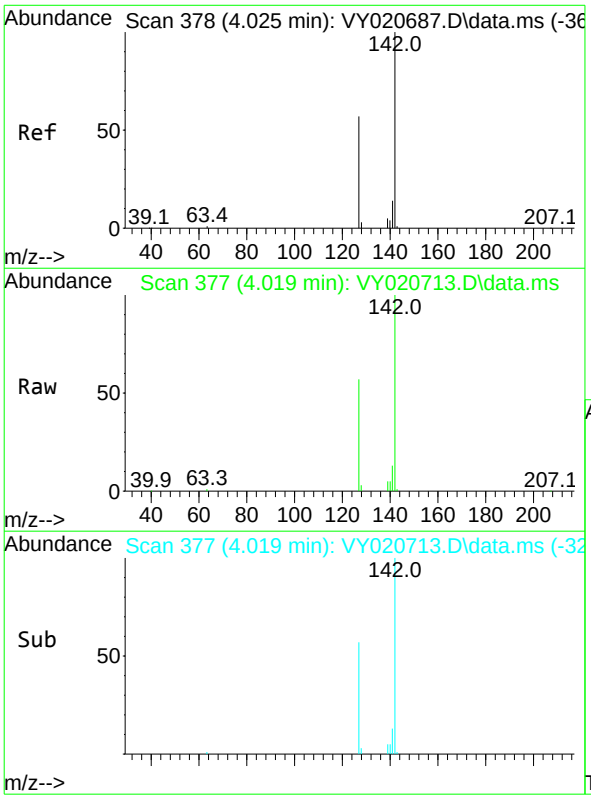
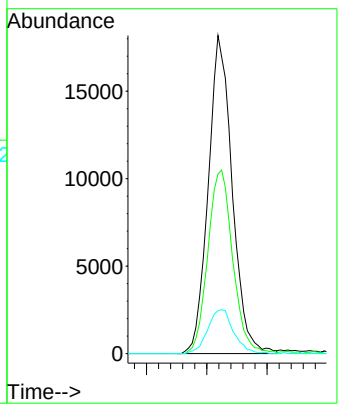


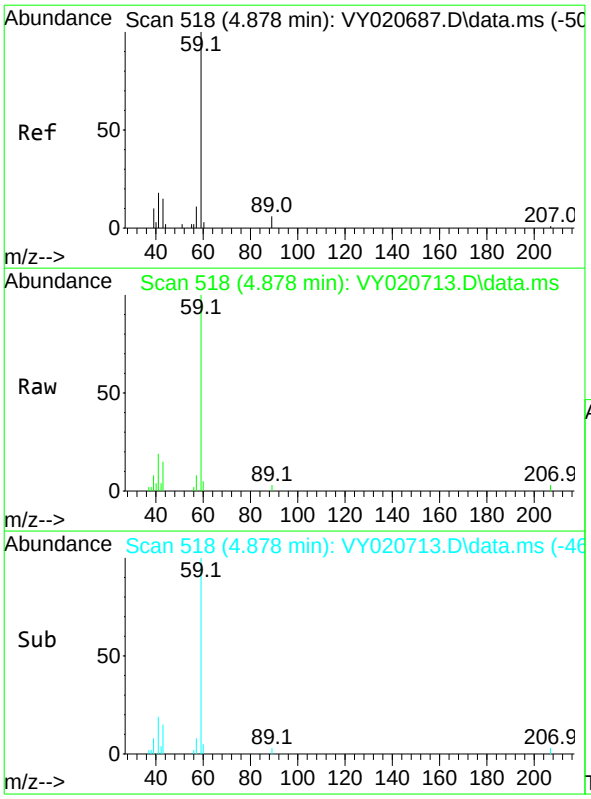




#10
Methyl Iodide
Concen: 51.123 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:142 Resp: 50185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 59.9 | 48.8 | 73.2 |
| 141 | 14.9 | 11.9 | 17.9 |

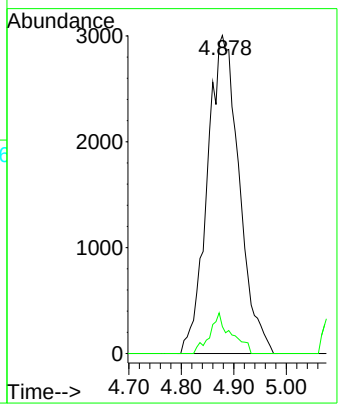





#11
Tert butyl alcohol
Concen: 208.224 ug/l
RT: 4.878 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 59 Resp: 12665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.5 | 2.8 | 4.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

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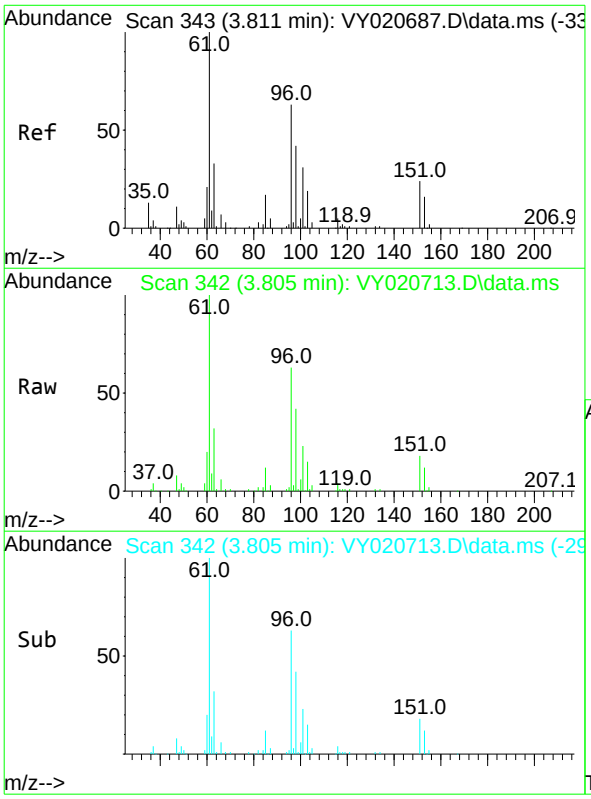
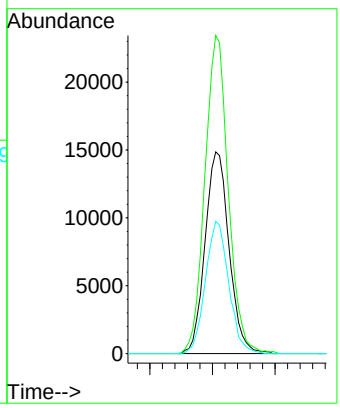
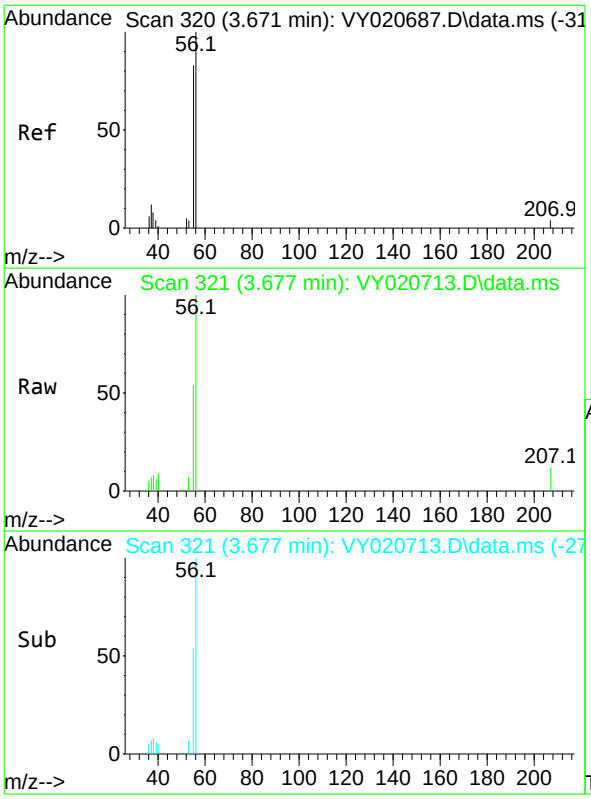



#12
1,1-Dichloroethene
Concen: 49.566 ug/l
RT: 3.805 min Scan# 342
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 96 Resp: 39605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 157.7 | 127.1 | 190.7 |
| 98 | 65.5 | 53.4 | 80.0 |

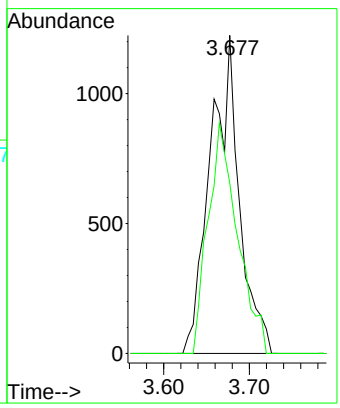





#13
Acrolein
Concen: 143.918 ug/l
RT: 3.677 min Scan# 32
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 56 Resp: 2881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.5 | 57.0 | 85.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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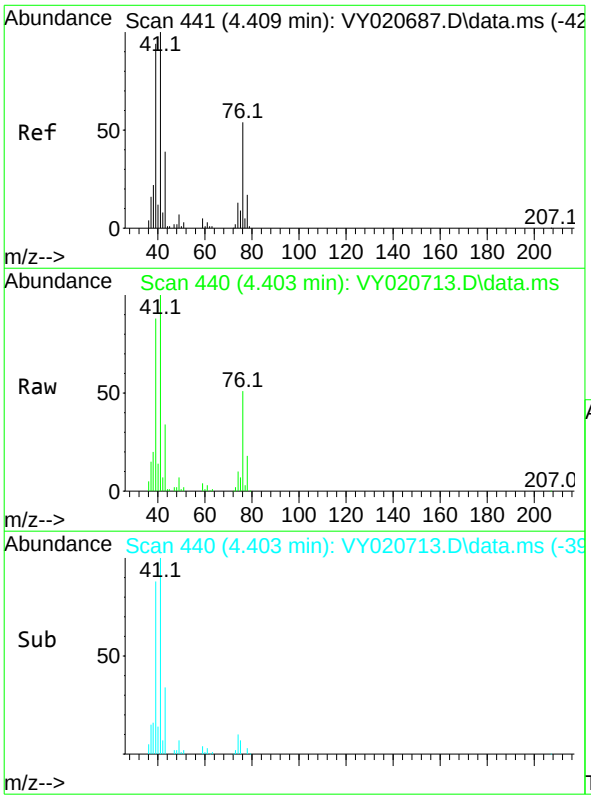
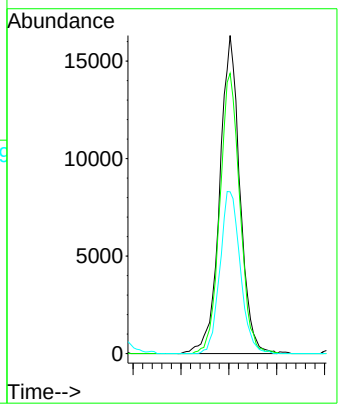
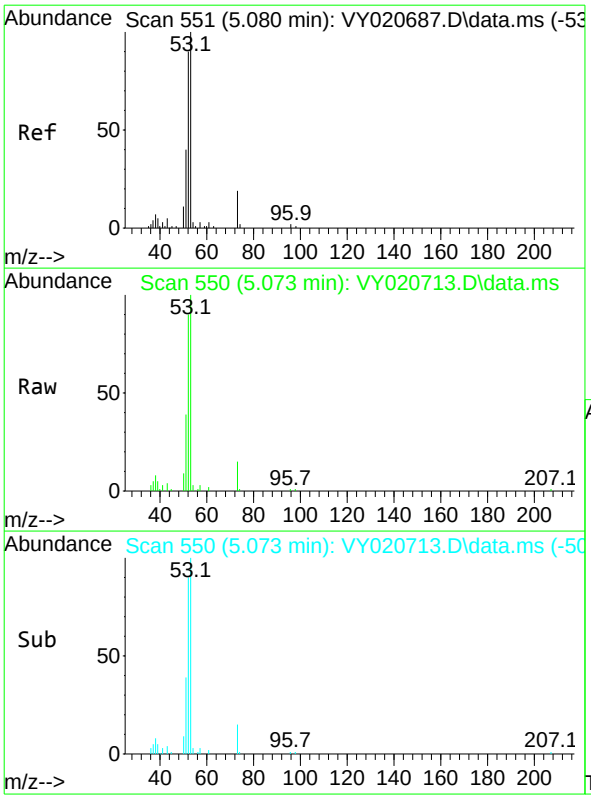



#14
Allyl chloride
Concen: 51.064 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 41 Resp: 47747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 87.2 | 73.5 | 110.3 |
| 76 | 51.3 | 41.8 | 62.8 |

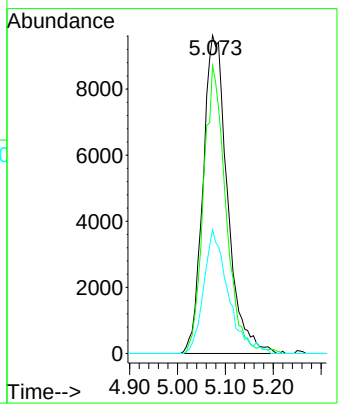





#15
Acrylonitrile
Concen: 226.940 ug/l
RT: 5.073 min Scan# 55
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 53 Resp: 34113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.9 | 67.1 | 100.7 |
| 51 | 38.9 | 31.4 | 47.0 |




**Instrument :**
MSVOA_Y
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ICVVY122624

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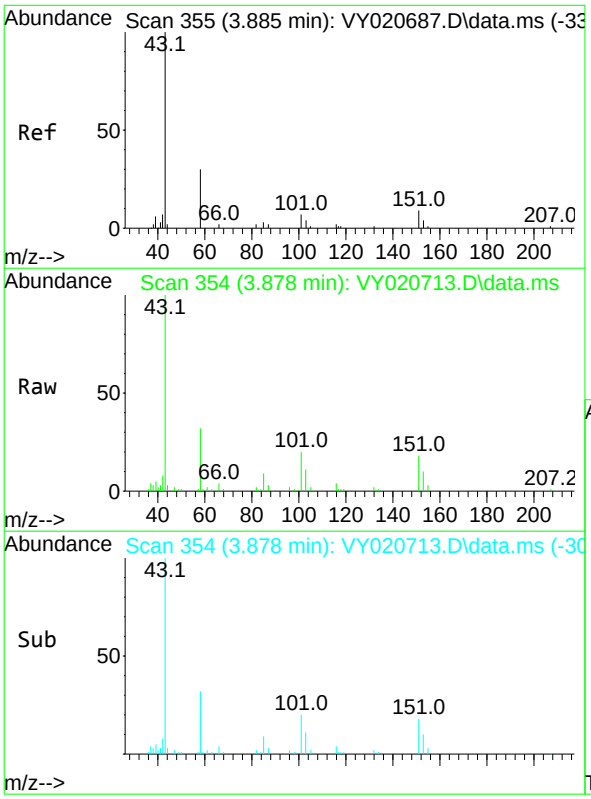
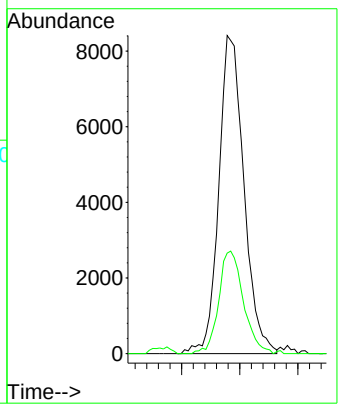
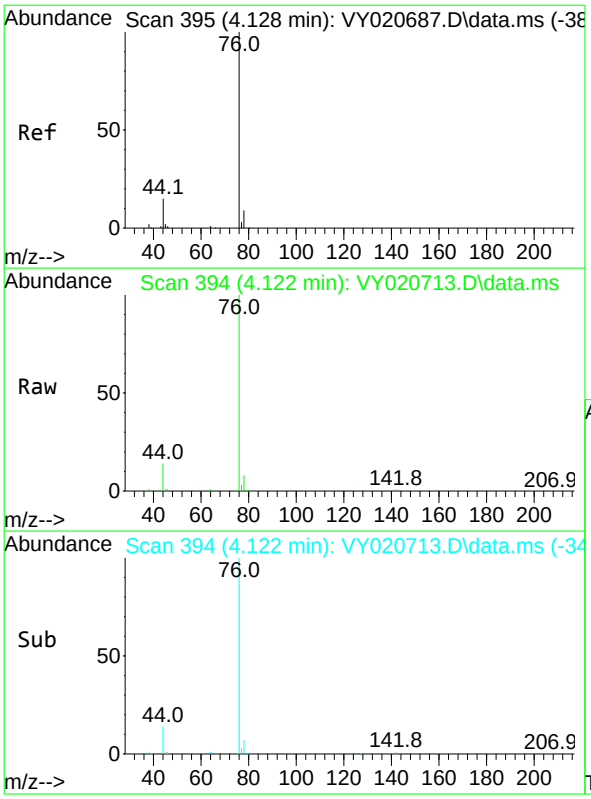



#16
Acetone
Concen: 207.840 ug/l
RT: 3.878 min Scan# 354
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 25249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.6 | 25.0 | 37.6 |

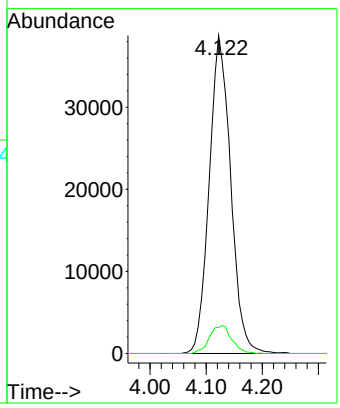





#17
Carbon Disulfide
Concen: 52.554 ug/l
RT: 4.122 min Scan# 39
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 76 Resp: 103010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.2 | 6.9 | 10.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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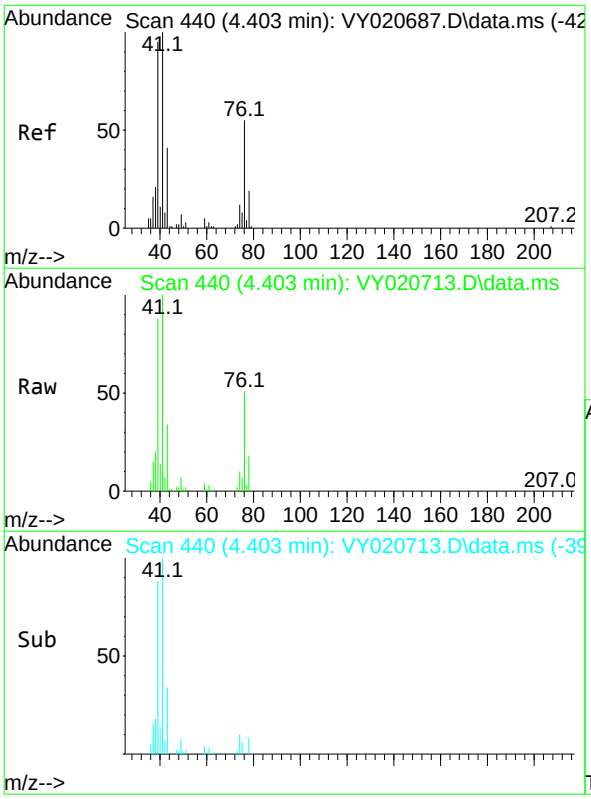
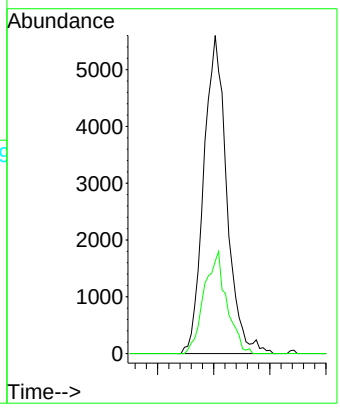
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

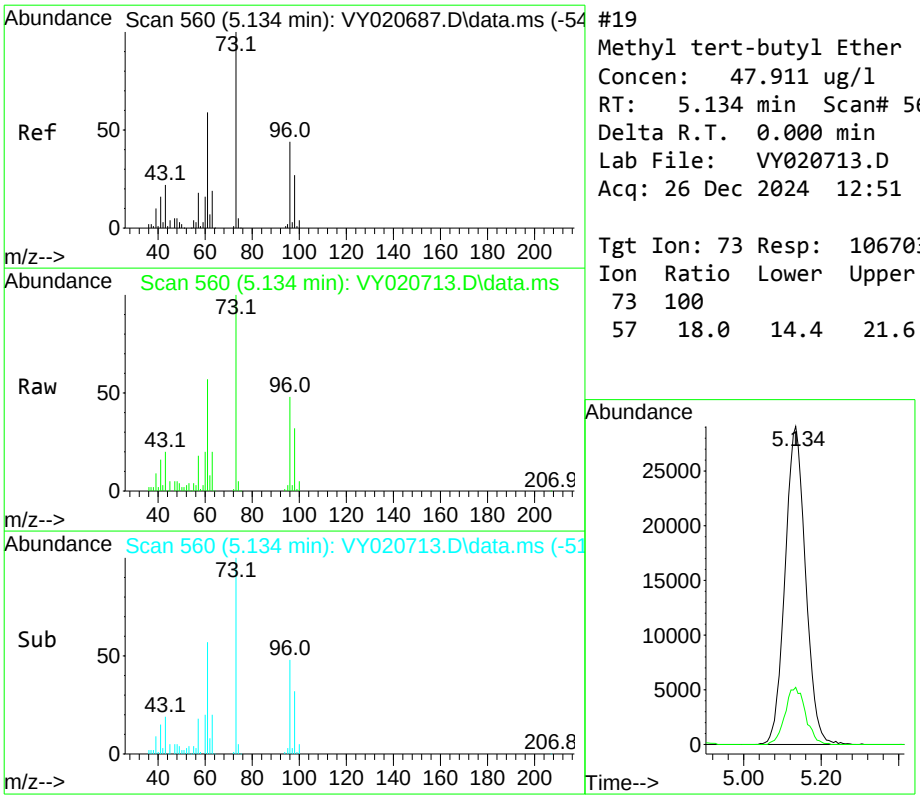



#18
Methyl Acetate
Concen: 48.572 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 15970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 31.5 | 25.3 | 37.9 |






#19
Methyl tert-butyl Ether
Concen: 47.911 ug/l
RT: 5.134 min Scan# 56
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 73 Resp: 106703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 18.0 | 14.4 | 21.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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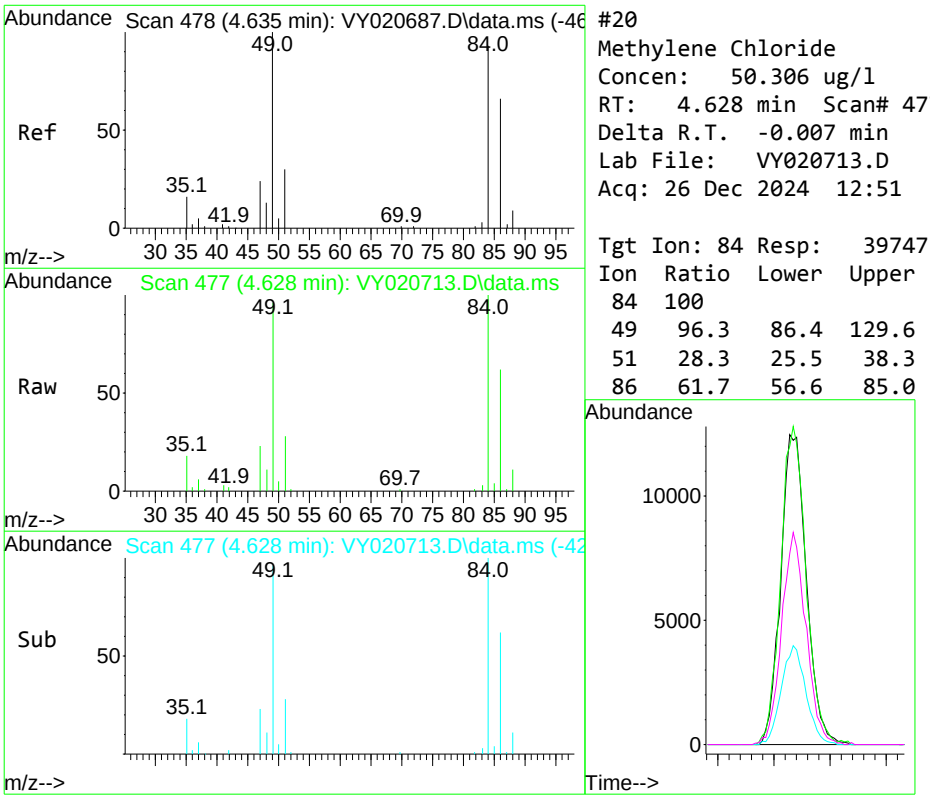
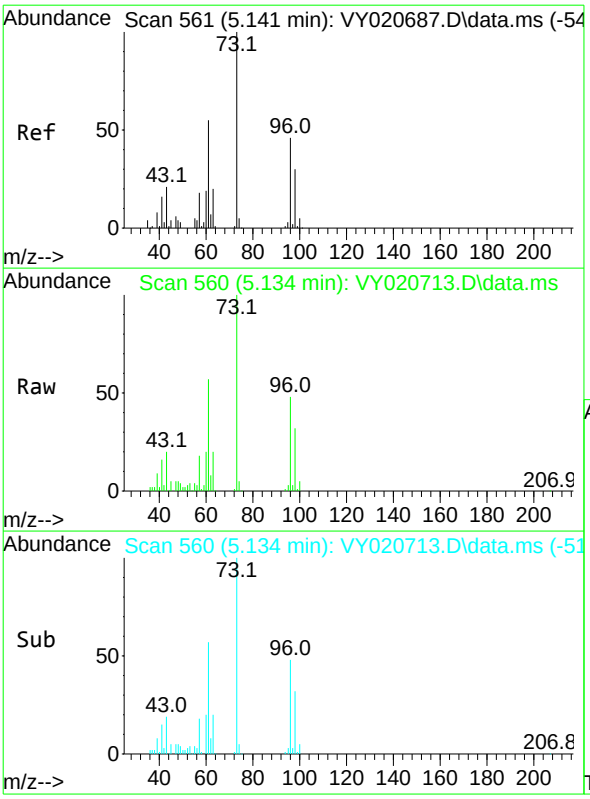



#20
Methylene Chloride
Concen: 50.306 ug/l
RT: 4.628 min Scan# 477
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 84 Resp: 39747

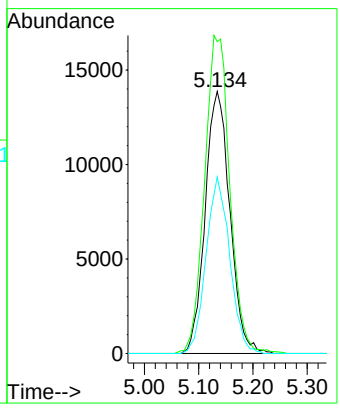
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 96.3 | 86.4 | 129.6 |
| 51 | 28.3 | 25.5 | 38.3 |
| 86 | 61.7 | 56.6 | 85.0 |




#21
trans-1,2-Dichloroethene
Concen: 50.999 ug/l
RT: 5.134 min Scan# 56
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 96 Resp: 43912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.5 | 96.1 | 144.1 |
| 98 | 67.4 | 52.7 | 79.1 |




**Instrument :**
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ICVVY122624

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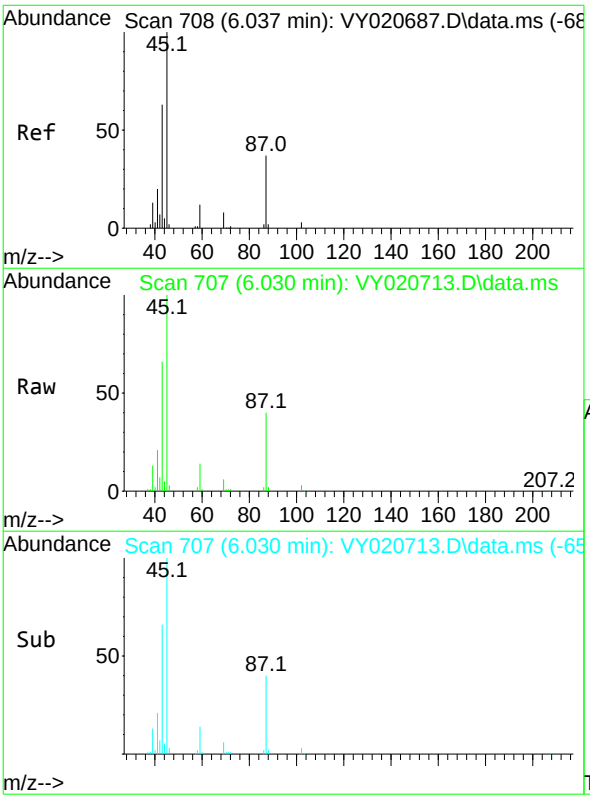
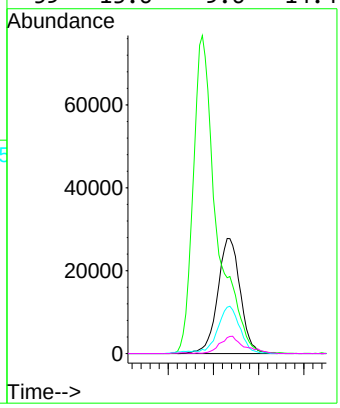
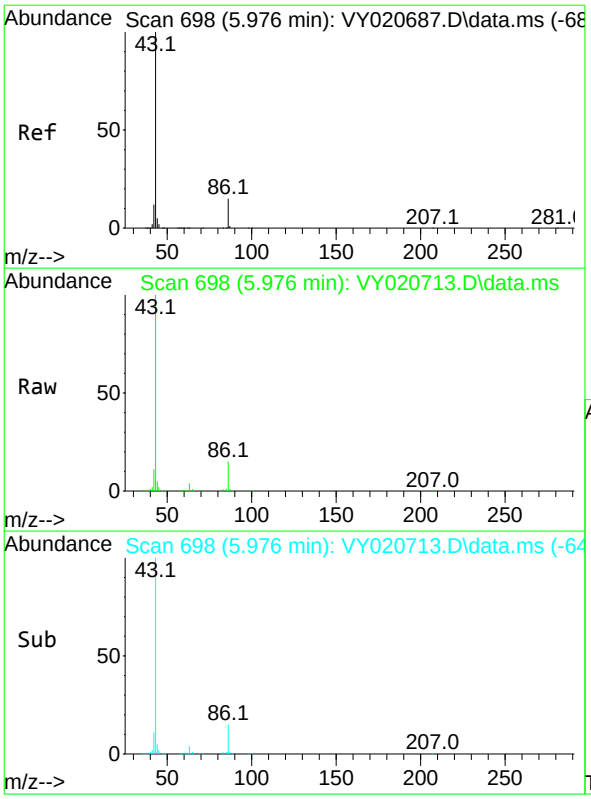



#22
Diisopropyl ether
Concen: 50.460 ug/l
RT: 6.030 min Scan# 707
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 45 Resp: 95914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.3 | 51.3 | 76.9 |
| 87 | 40.3 | 30.6 | 46.0 |
| 59 | 13.6 | 9.6 | 14.4 |

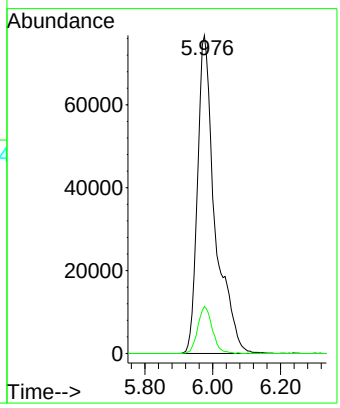





#23
Vinyl Acetate
Concen: 242.987 ug/l
RT: 5.976 min Scan# 69
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 275873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.8 | 12.0 | 18.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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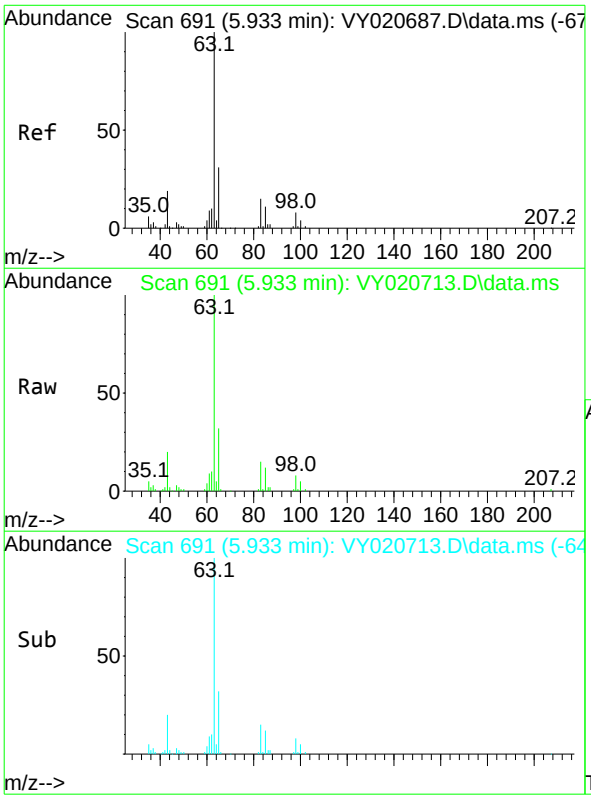
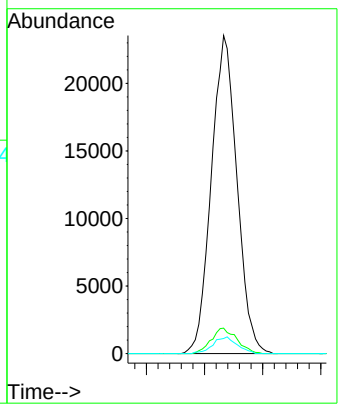
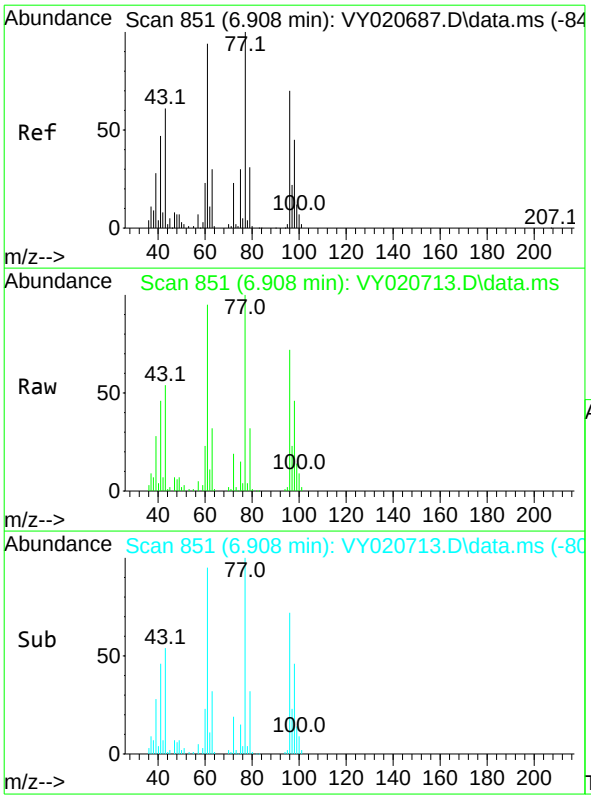



#24
1,1-Dichloroethane
Concen: 50.544 ug/l
RT: 5.933 min Scan# 691
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 63 Resp: 72030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.0 | 4.0 | 12.0 |
| 100 | 4.7 | 2.1 | 6.2 |

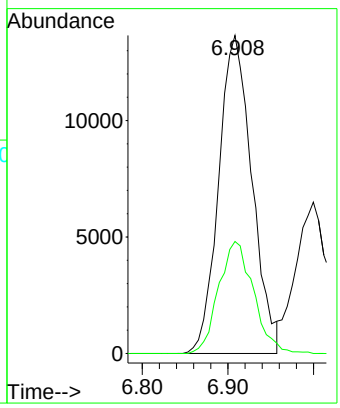





#25
2-Butanone
Concen: 225.260 ug/l
RT: 6.908 min Scan# 85
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 36966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 35.2 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
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ICVVY122624

**Manual Integrations**
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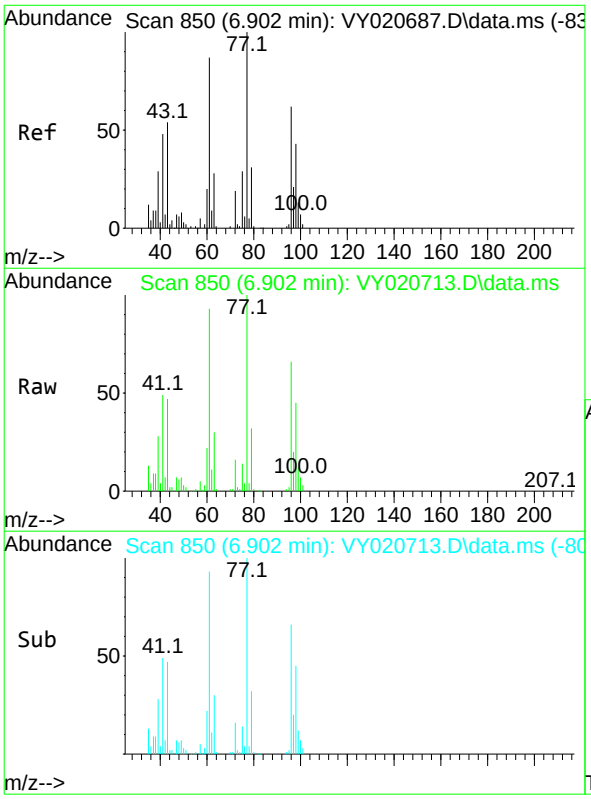
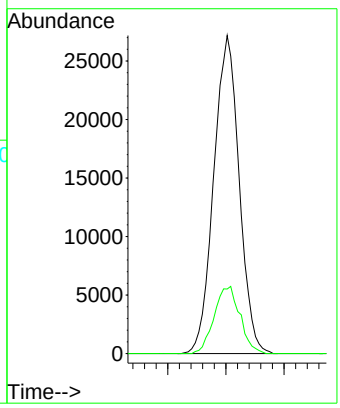
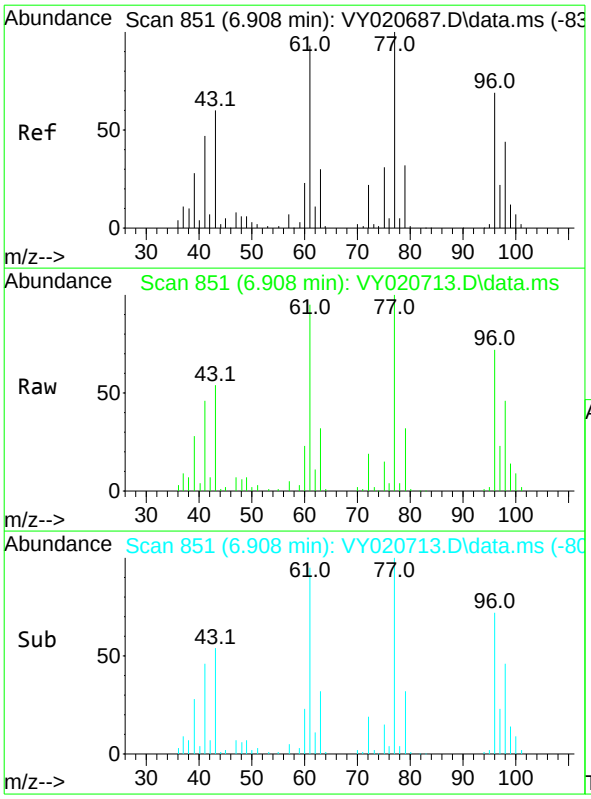



#26
2,2-Dichloropropane
Concen: 47.328 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 77 Resp: 82553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.4 | 10.8 | 32.4 |






#27
cis-1,2-Dichloroethene
Concen: 49.666 ug/l
RT: 6.908 min Scan# 85
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 96 Resp: 51212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.9 | 0.0 | 277.2 |
| 98 | 66.0 | 0.0 | 131.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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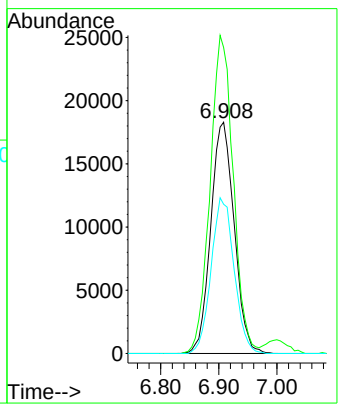
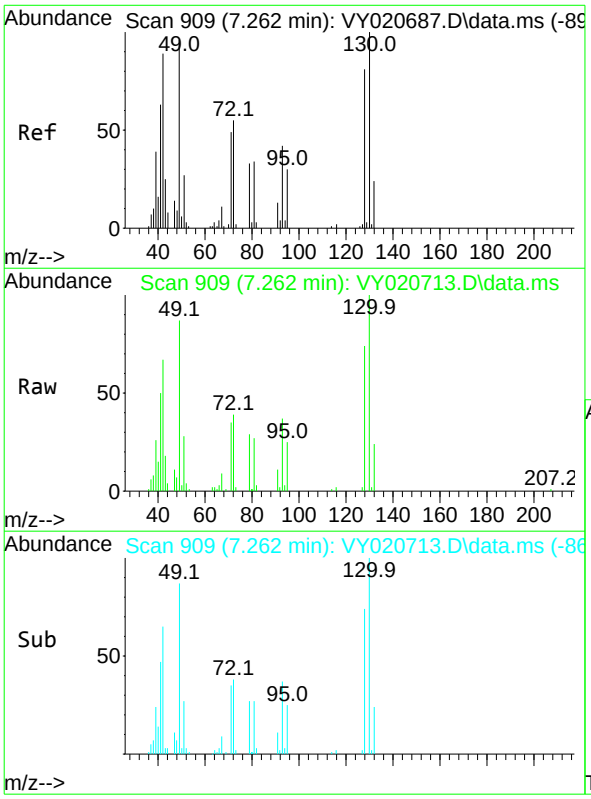
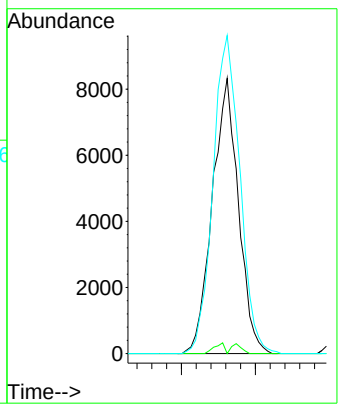


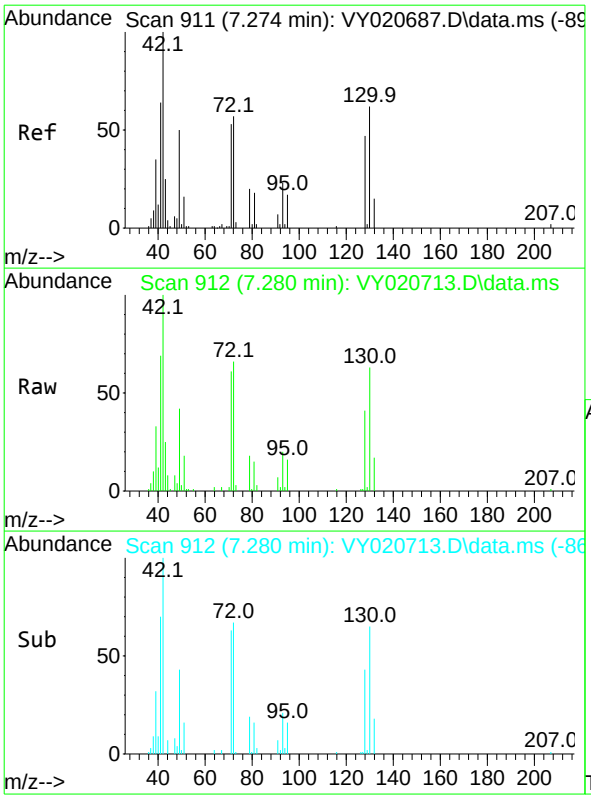




#28
Bromochloromethane
Concen: 54.165 ug/l
RT: 7.262 min Scan# 909
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 49 Resp: 20413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.5 | 0.0 | 5.4 |
| 130 | 119.2 | 87.2 | 130.8 |

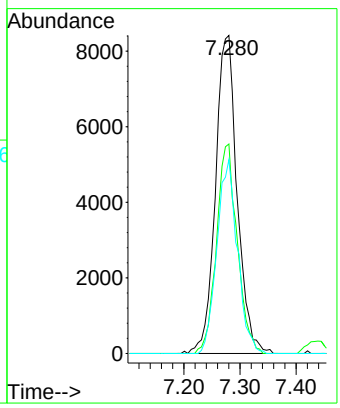





#29
Tetrahydrofuran
Concen: 224.521 ug/l
RT: 7.280 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 42 Resp: 22616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 63.0 | 47.4 | 71.0 |
| 71 | 57.5 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

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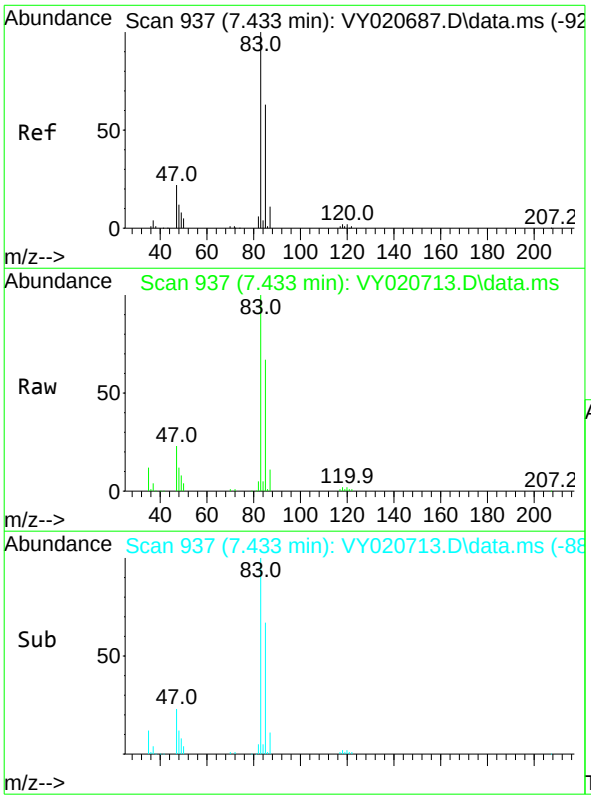
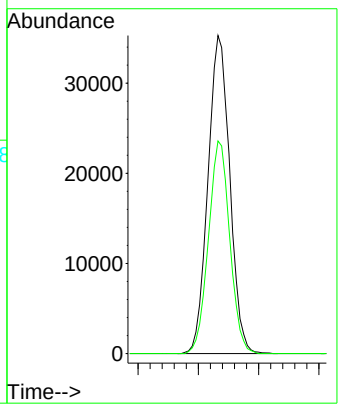
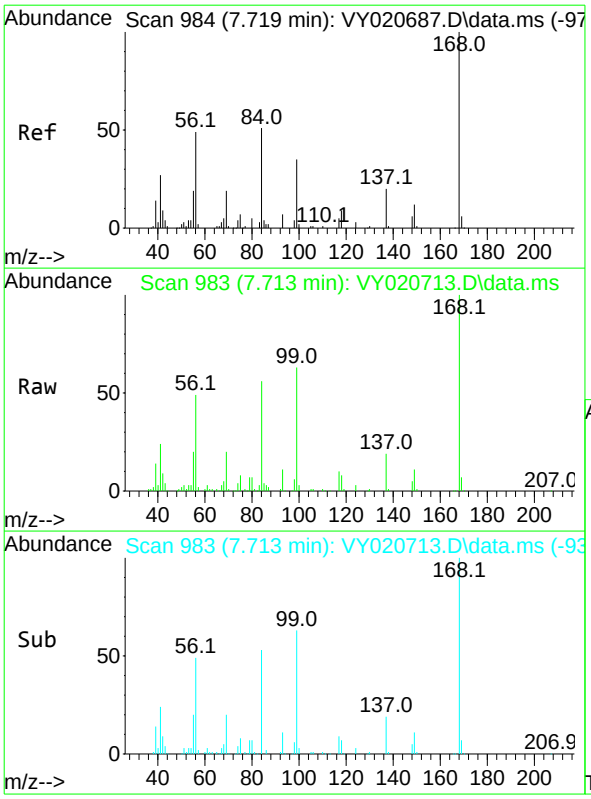



#30
Chloroform
Concen: 48.353 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 83 Resp: 88644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.9 | 50.2 | 75.2 |

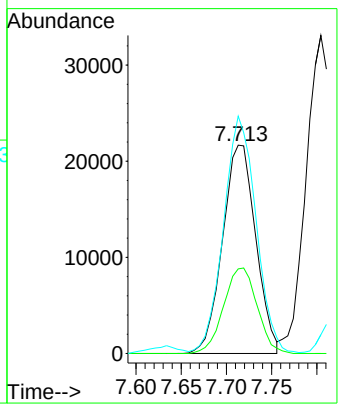





#31
Cyclohexane
Concen: 44.979 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 56 Resp: 55329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 40.6 | 31.3 | 46.9 |
| 84 | 111.9 | 83.9 | 125.9 |




**Instrument :**
MSVOA_Y
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ICVVY122624

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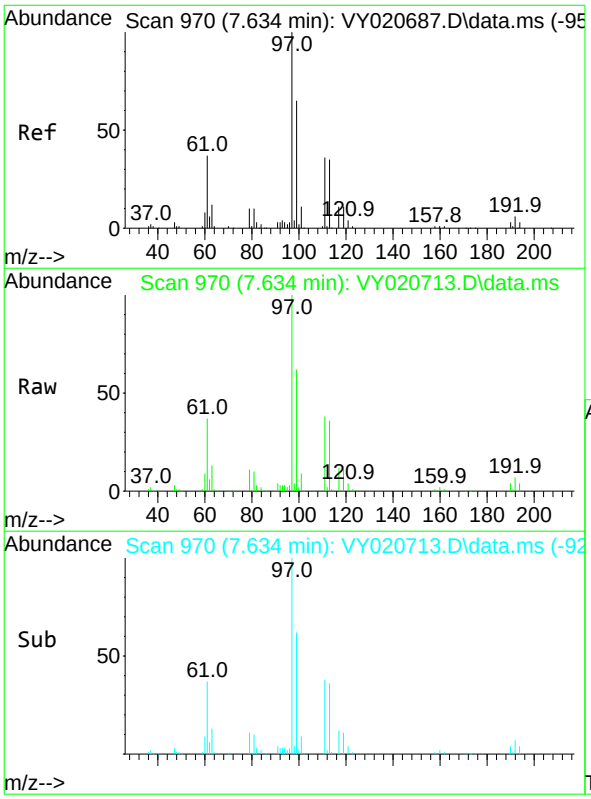
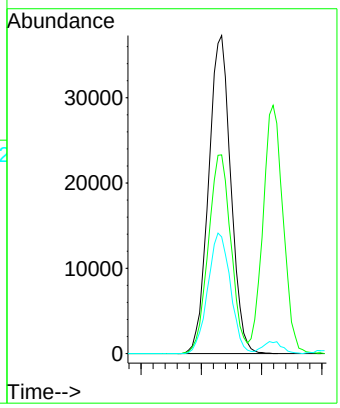
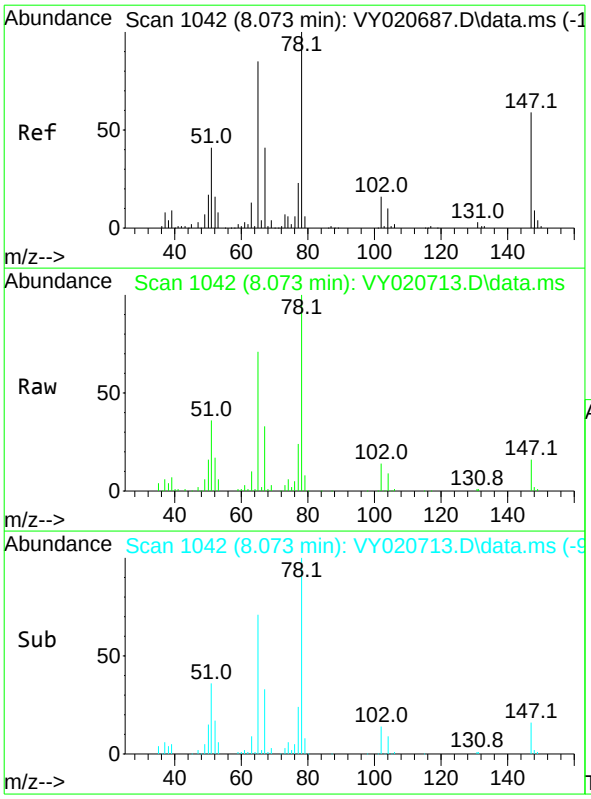



#32
1,1,1-Trichloroethane
Concen: 48.484 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 97 Resp: 95277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.0 | 76.6 |
| 61 | 38.6 | 30.0 | 45.0 |

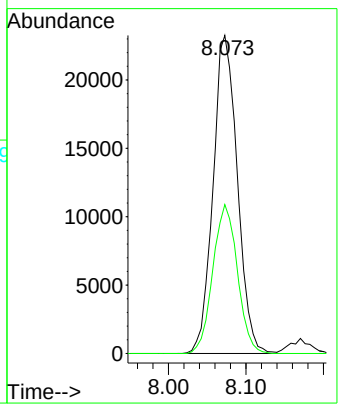





#33
1,2-Dichloroethane-d4
Concen: 52.910 ug/l
RT: 8.073 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 65 Resp: 50667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 47.3 | 0.0 | 98.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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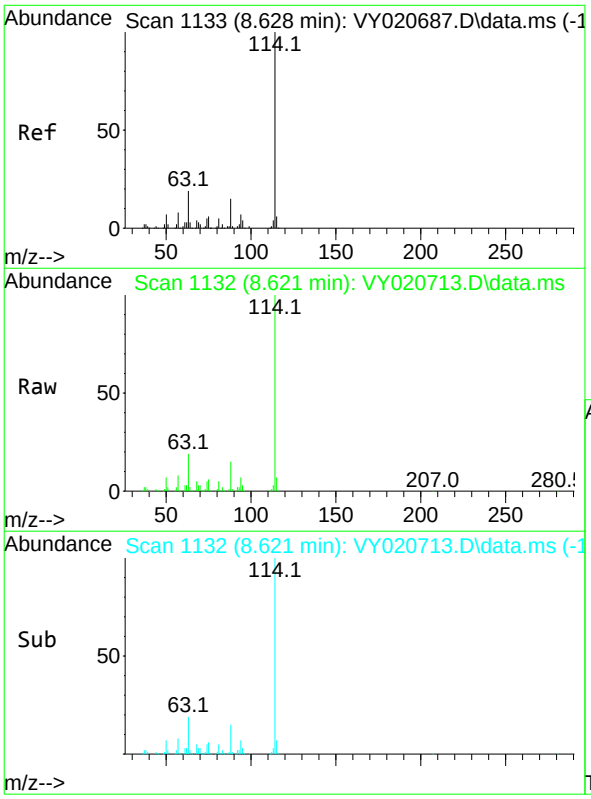
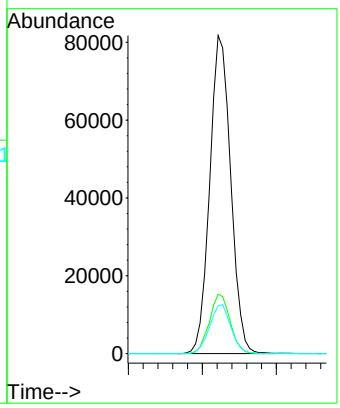
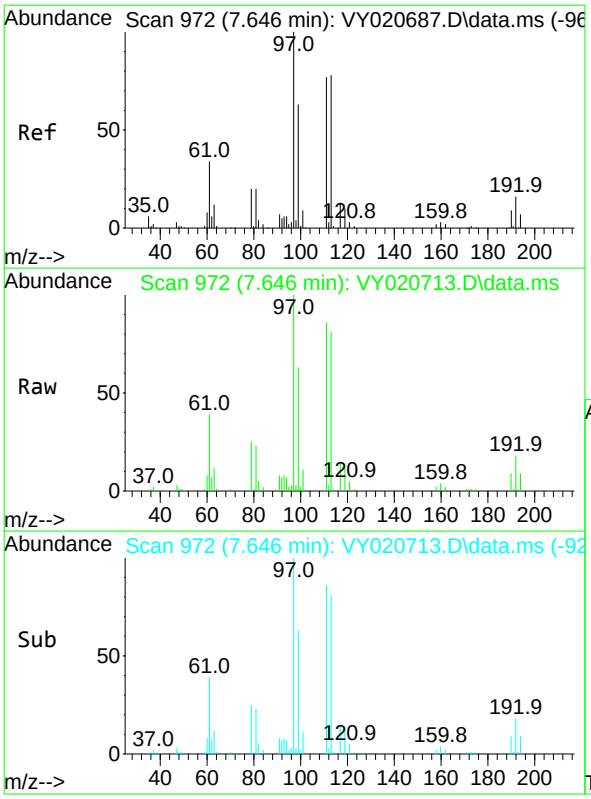



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 1132
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:114 Resp: 160856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 30.4 |

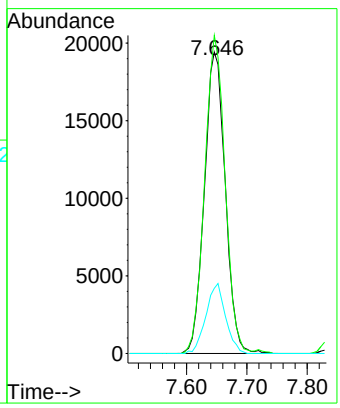





#35
Dibromofluoromethane
Concen: 52.779 ug/l
RT: 7.646 min Scan# 97
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:113 Resp: 46763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 79.8 | 119.8 |
| 192 | 21.9 | 17.0 | 25.6 |

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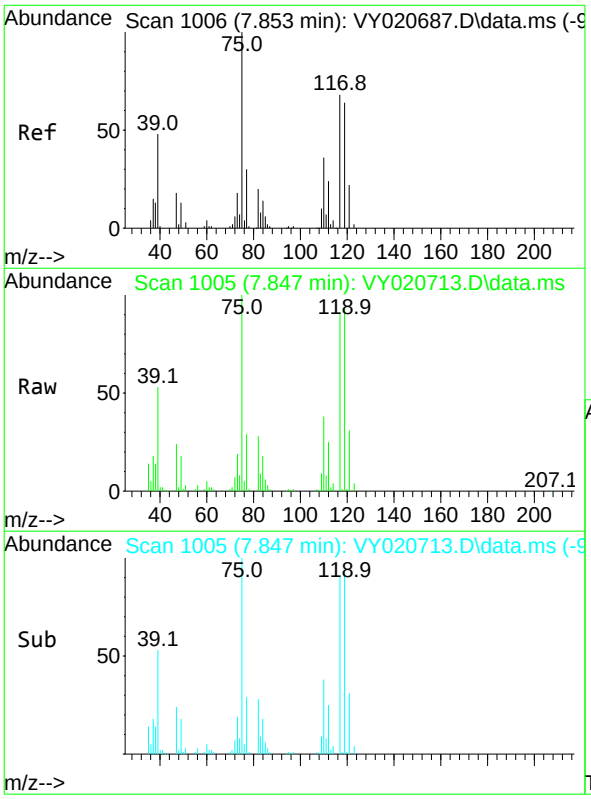
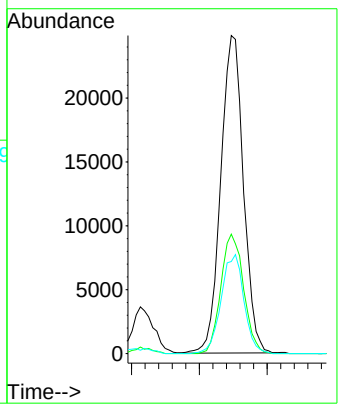
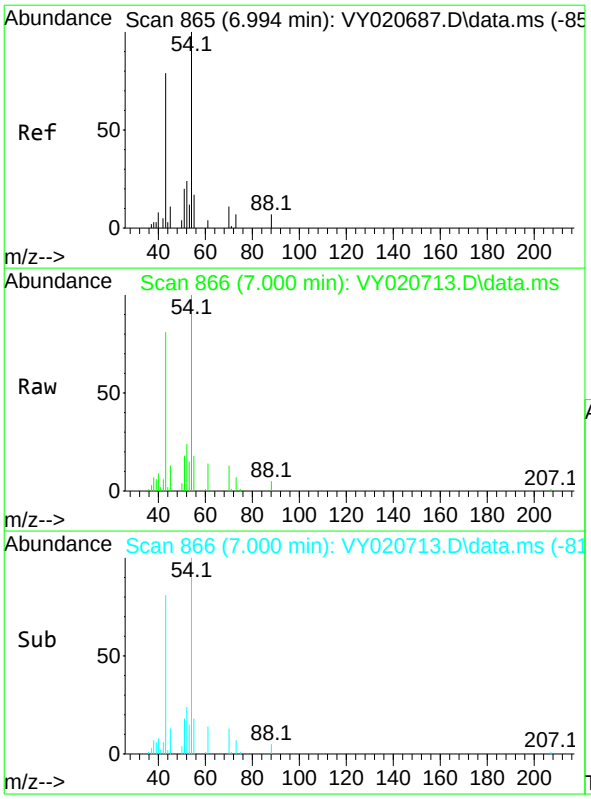



#36
1,1-Dichloropropene
Concen: 49.340 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 75 Resp: 57746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.7 | 19.6 | 58.7 |
| 77 | 31.4 | 25.1 | 37.7 |






#37
Ethyl Acetate
Concen: 46.791 ug/l
RT: 7.000 min Scan# 86
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

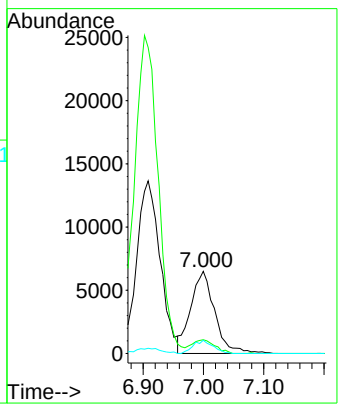
Tgt Ion: 43 Resp: 18046

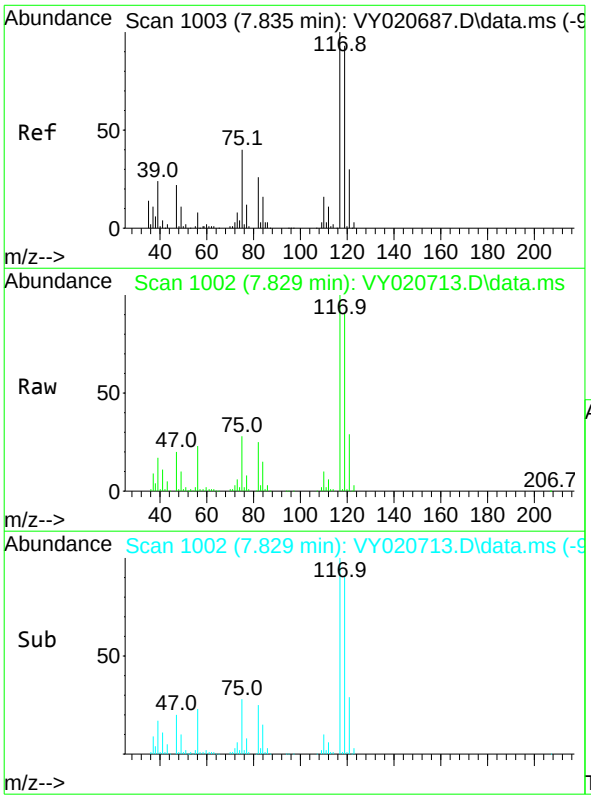
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.1 | 11.7 | 17.5 |
| 70 | 13.0 | 11.0 | 16.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

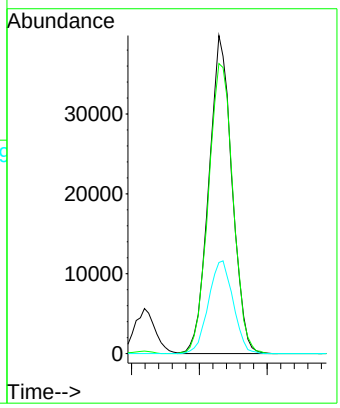


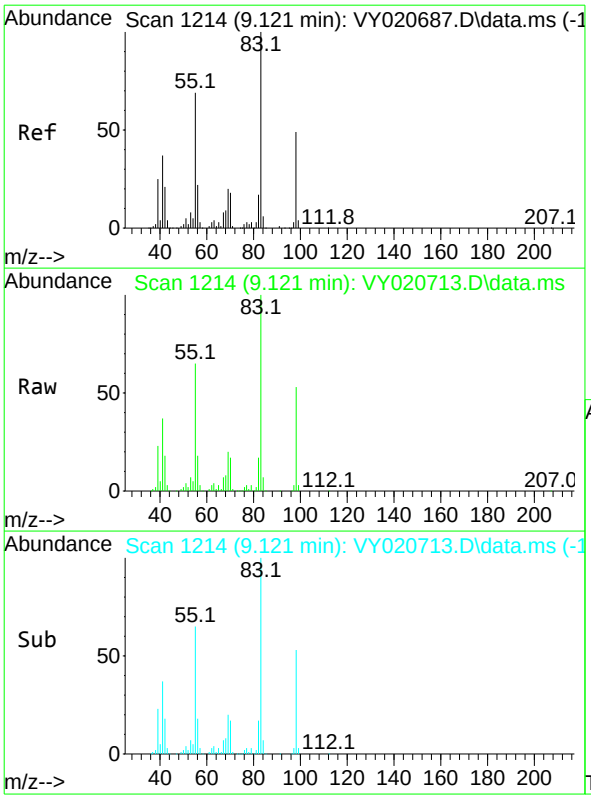




#38
Carbon Tetrachloride
Concen: 49.087 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:117 Resp: 94603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.2 | 74.4 | 111.6 |
| 121 | 28.6 | 24.2 | 36.2 |

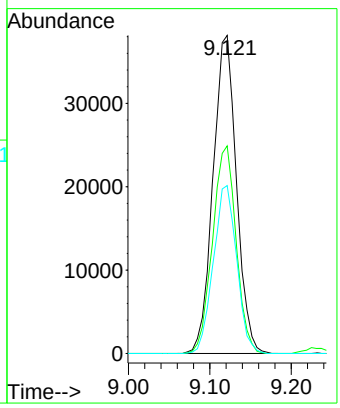





#39
Methylcyclohexane
Concen: 50.860 ug/l
RT: 9.121 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 83 Resp: 76295

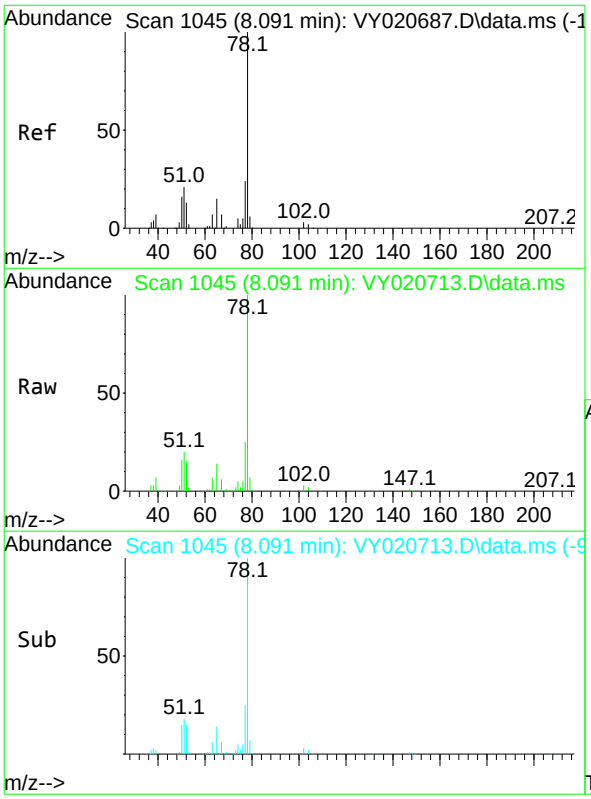
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.3 | 55.0 | 82.4 |
| 98 | 52.8 | 39.0 | 58.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

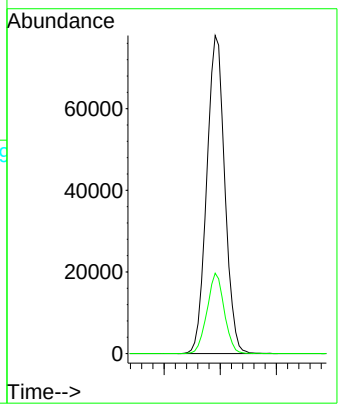
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

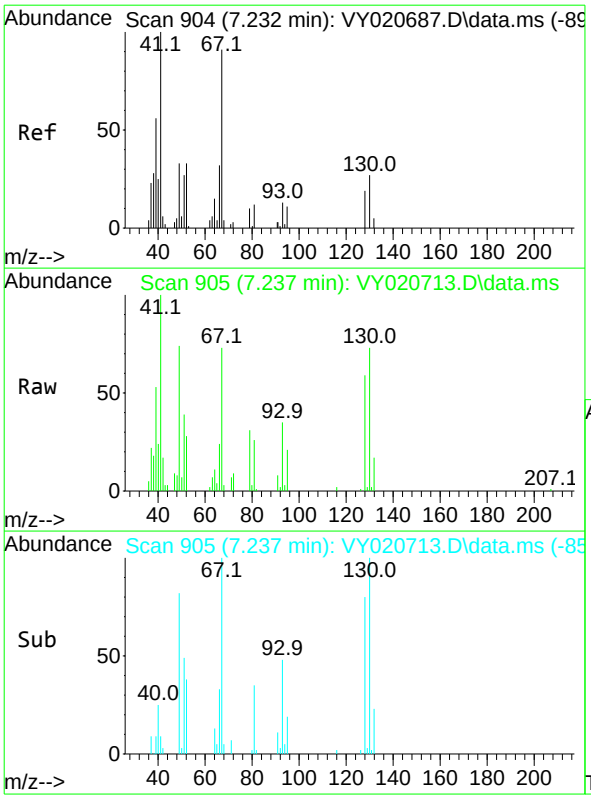



#40
Benzene
Concen: 51.214 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 78 Resp: 173716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.3 | 19.2 | 28.8 |

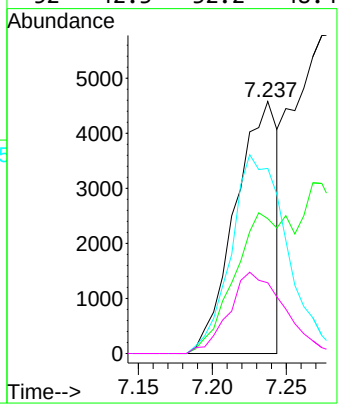





#41
Methacrylonitrile
Concen: 46.896 ug/l
RT: 7.237 min Scan# 90
Delta R.T. 0.005 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 41 Resp: 9136

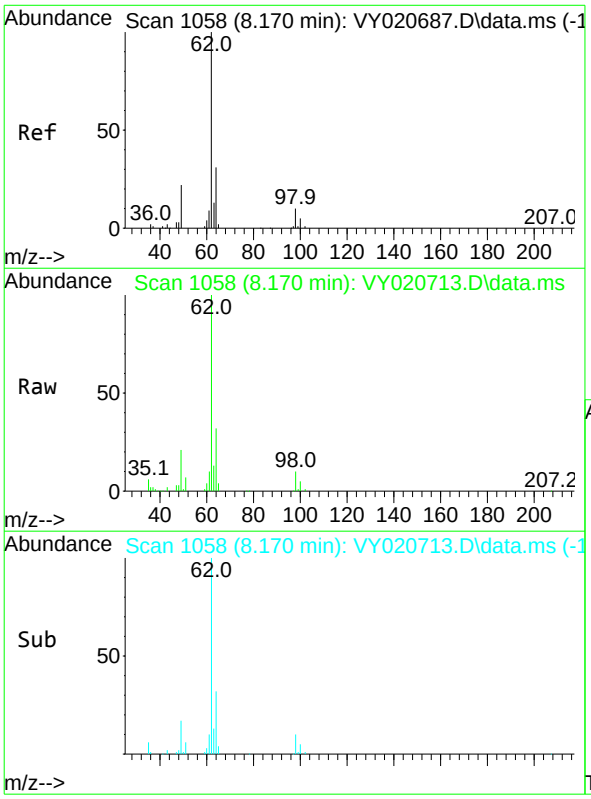
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.0 | 46.6 | 70.0 |
| 67 | 103.5 | 74.7 | 112.1 |
| 52 | 42.3 | 32.2 | 48.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations**
**APPROVED**

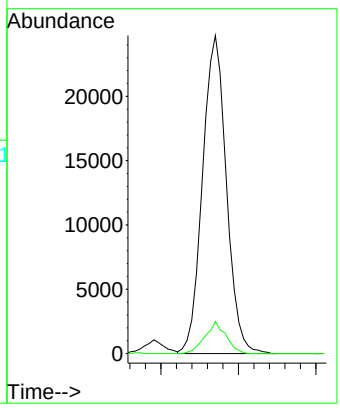
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

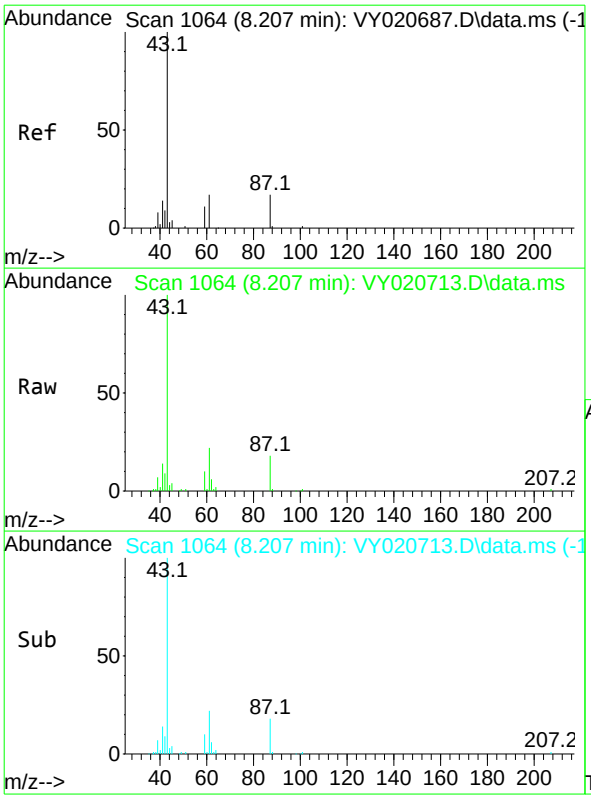



#42
1,2-Dichloroethane
Concen: 48.661 ug/l
RT: 8.170 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 62 Resp: 52925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.8 | 0.0 | 16.6 |

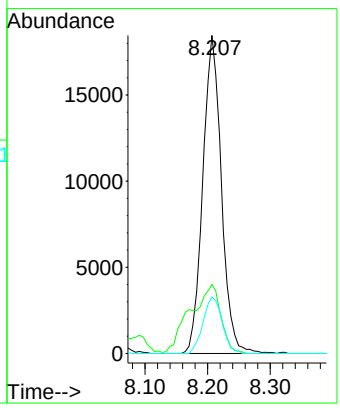





#43
Isopropyl Acetate
Concen: 46.479 ug/l
RT: 8.207 min Scan# 10
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 38101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 35.8 | 27.0 | 40.4 |
| 87 | 18.3 | 14.2 | 21.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

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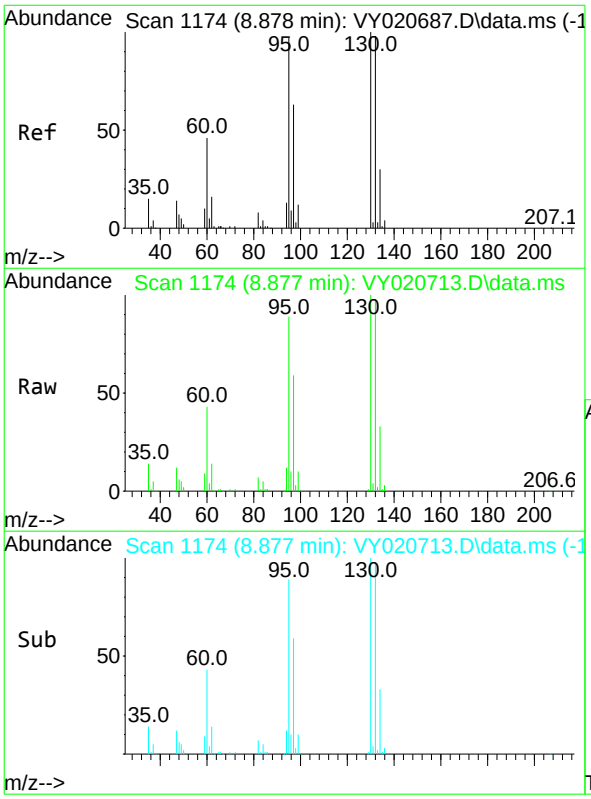
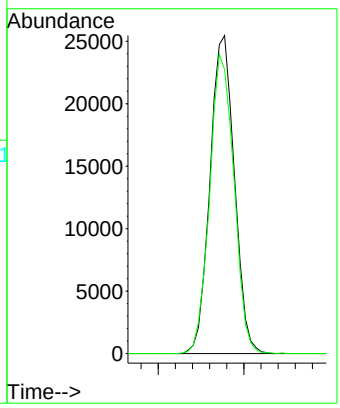
Supervised By :Semsettin Yesilyurt 12/27/2024

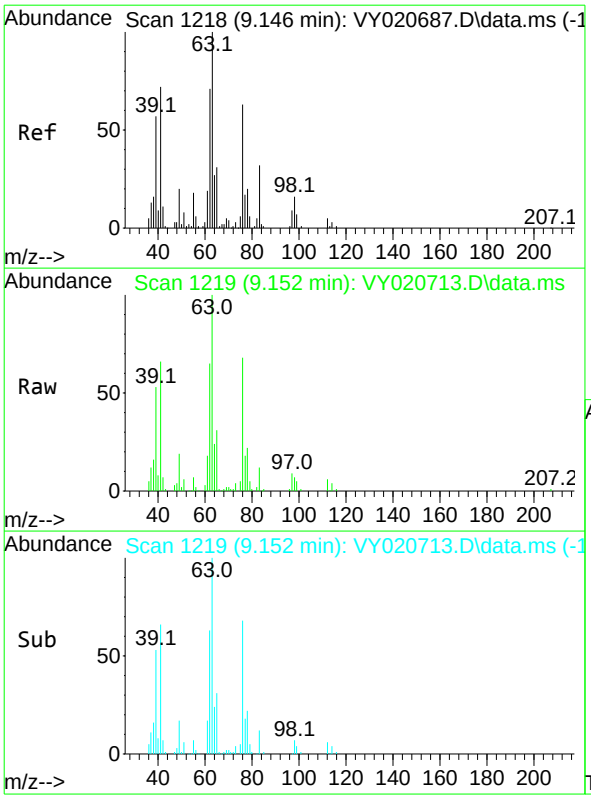



#44
Trichloroethene
Concen: 49.703 ug/l
RT: 8.877 min Scan# 1174
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:130 Resp: 50355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 89.3 | 0.0 | 194.8 |

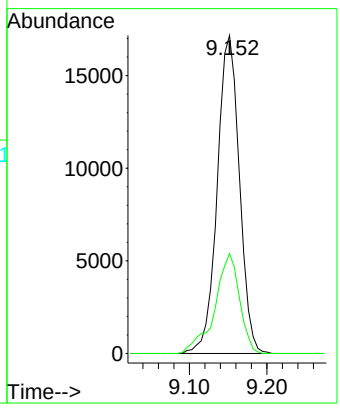





#45
1,2-Dichloropropane
Concen: 49.593 ug/l
RT: 9.152 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 63 Resp: 34051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 24.6 | 36.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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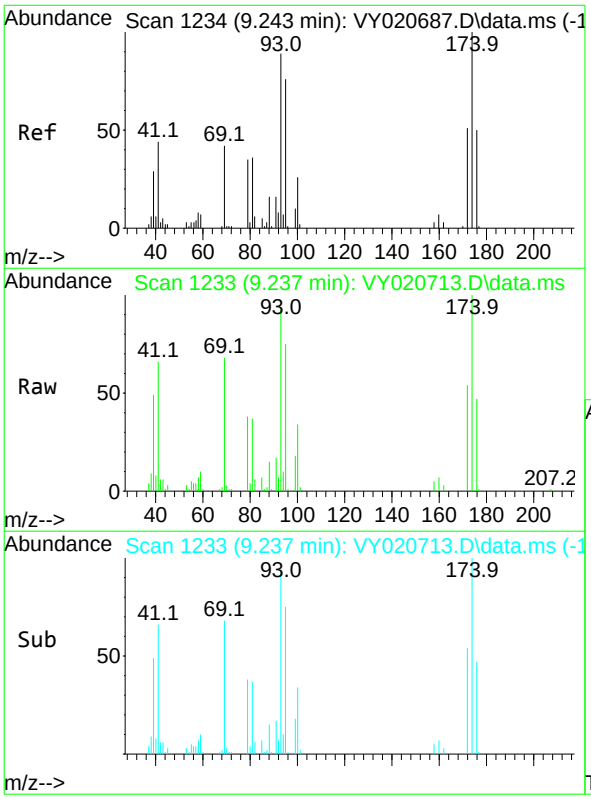
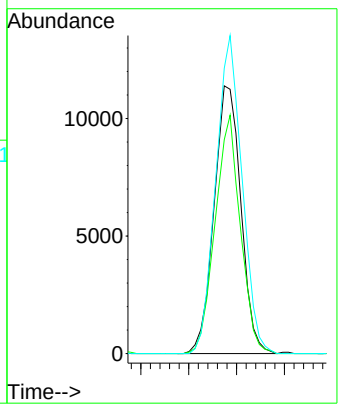
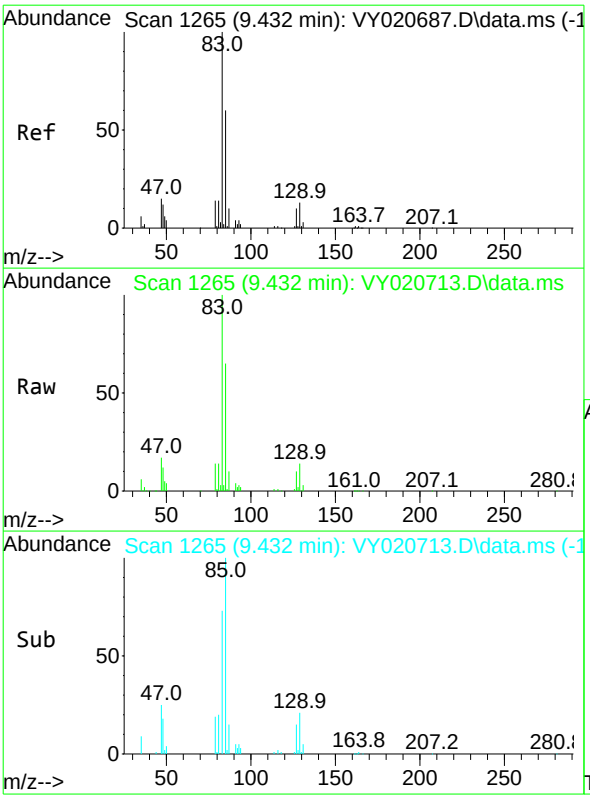



#46
Dibromomethane
Concen: 46.666 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 93 Resp: 22170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.8 | 67.8 | 101.8 |
| 174 | 115.7 | 89.4 | 134.0 |

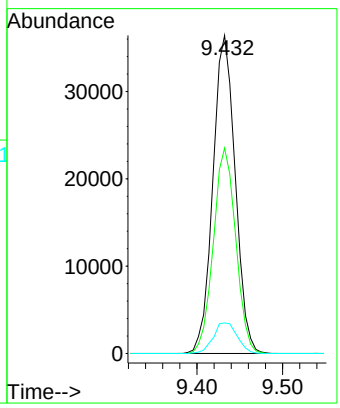





#47
Bromodichloromethane
Concen: 48.995 ug/l
RT: 9.432 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 83 Resp: 65991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.6 | 47.6 | 71.4 |
| 127 | 9.6 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

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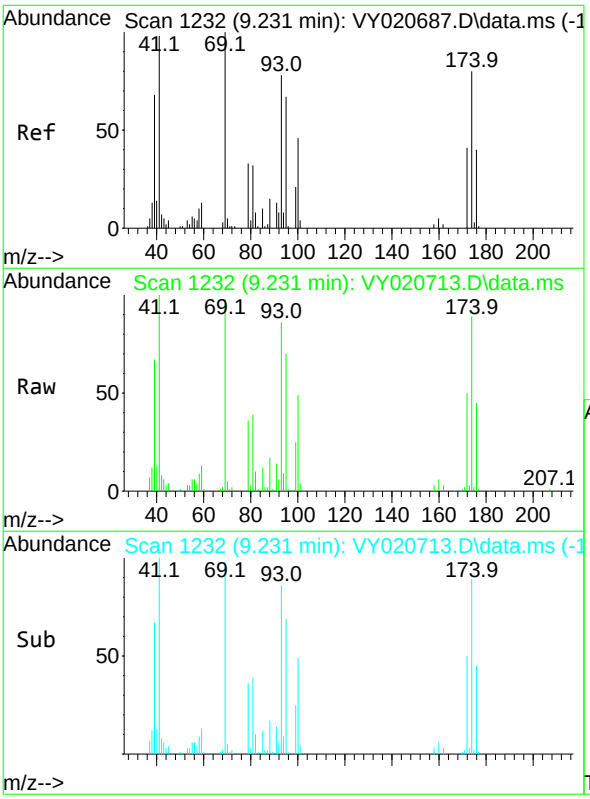
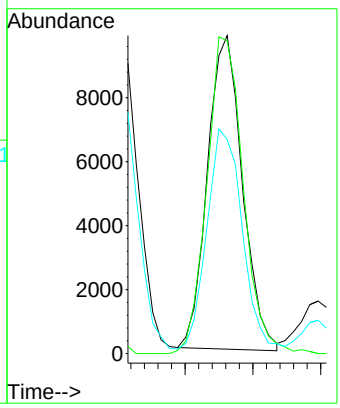
Supervised By :Semsettin Yesilyurt 12/27/2024

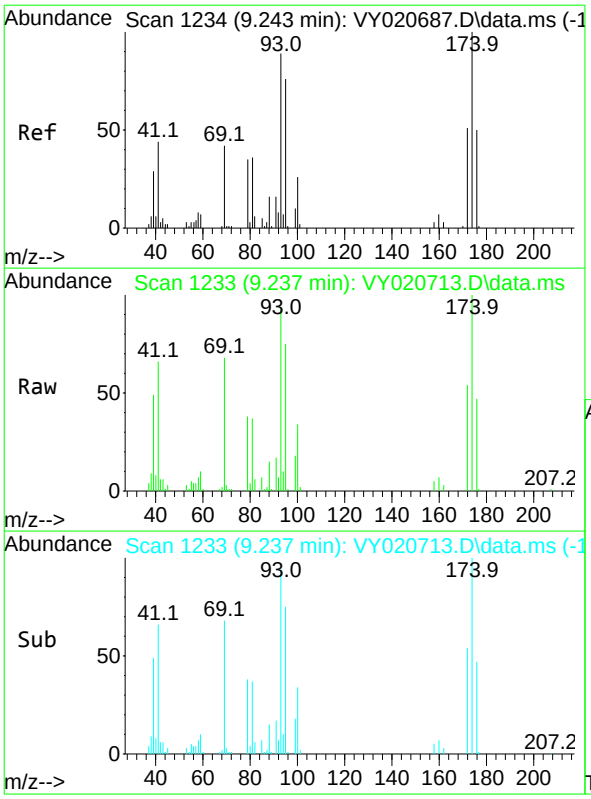



#48
Methyl methacrylate
Concen: 45.829 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 41 Resp: 17544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 105.1 | 83.1 | 124.7 |
| 39 | 71.1 | 57.3 | 85.9 |

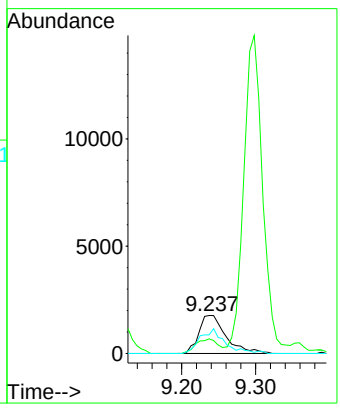





#49
1,4-Dioxane
Concen: 998.617 ug/l
RT: 9.237 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 88 Resp: 4519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.2 | 22.1 | 33.1 |
| 58 | 59.8 | 46.7 | 70.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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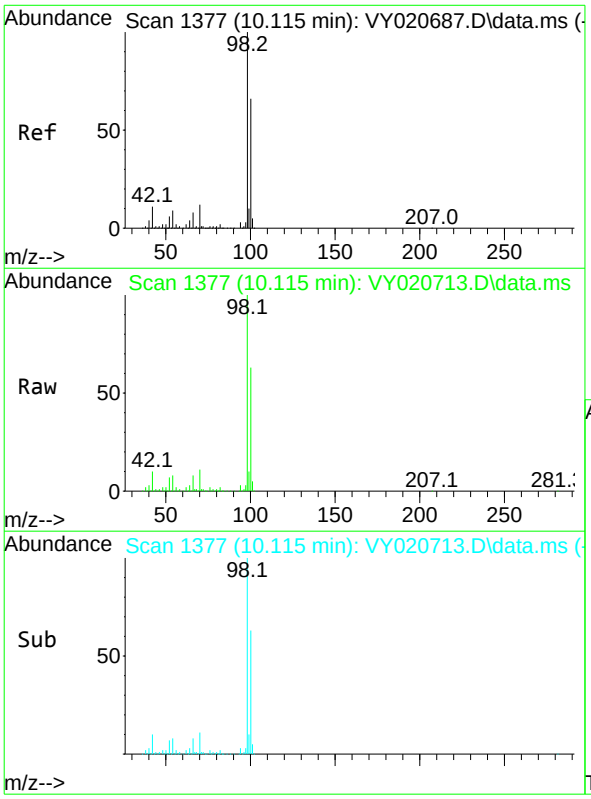
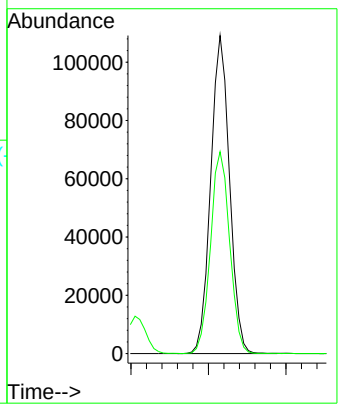
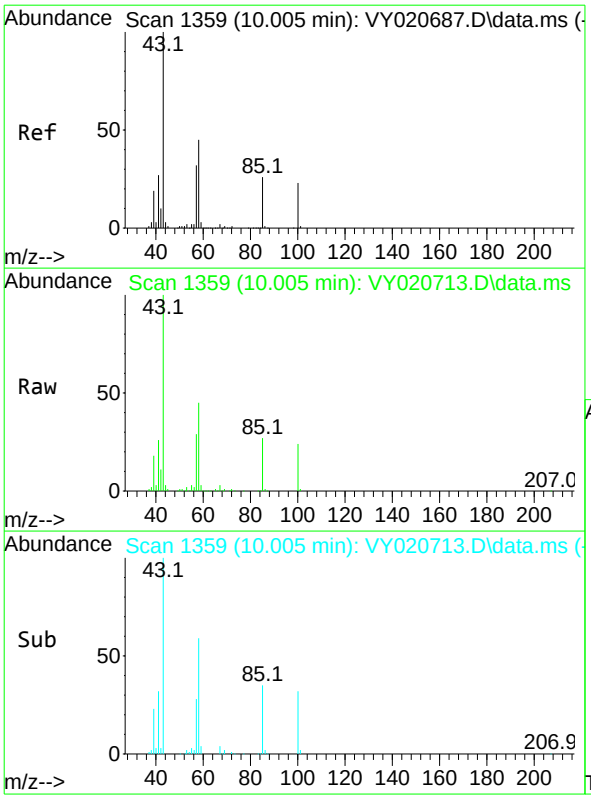



#50
Toluene-d8
Concen: 52.171 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 98 Resp: 184089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.2 | 78.4 |

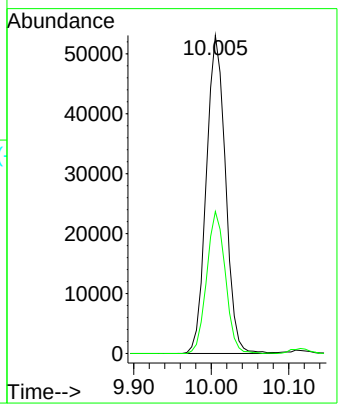





#51
4-Methyl-2-Pentanone
Concen: 230.147 ug/l
RT: 10.005 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 91062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.5 | 35.1 | 52.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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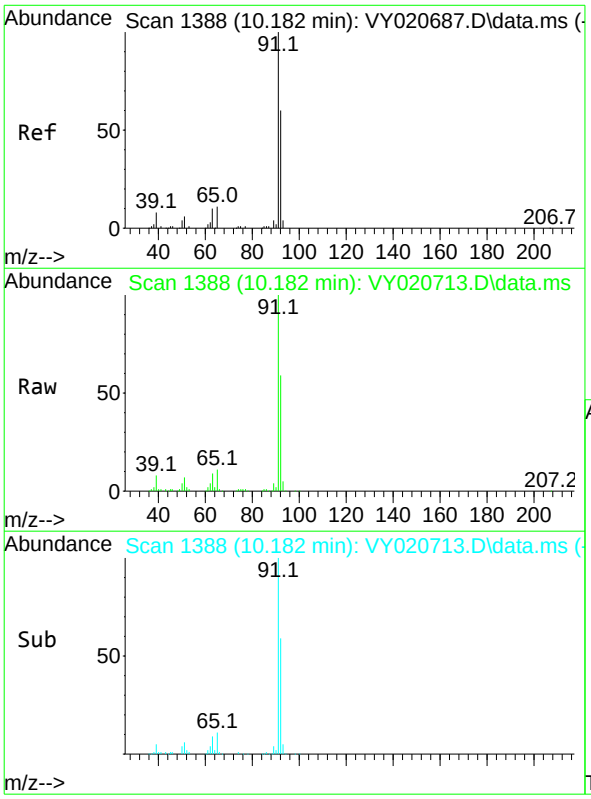
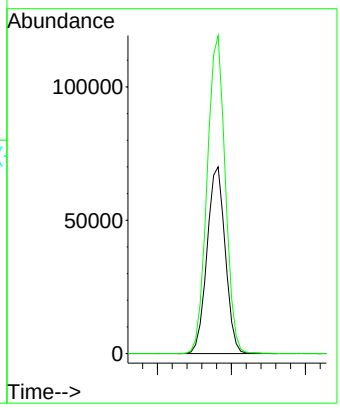
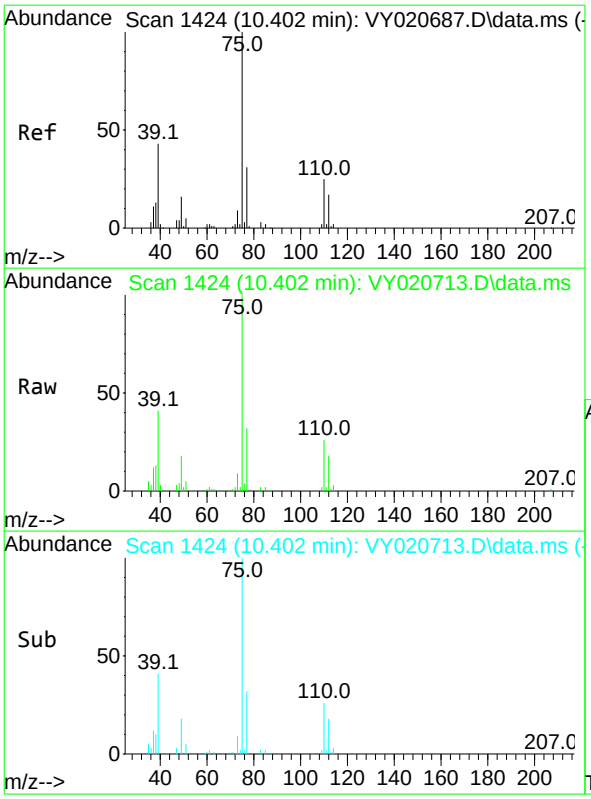



#52
Toluene
Concen: 51.455 ug/l
RT: 10.182 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 92 Resp: 119622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.7 | 137.7 | 206.5 |

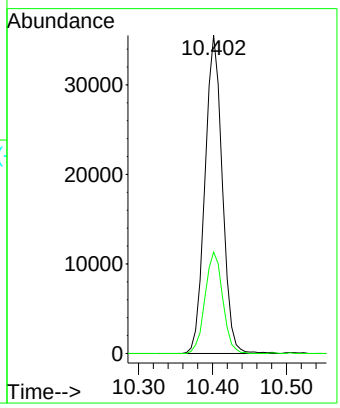





#53
t-1,3-Dichloropropene
Concen: 48.805 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 75 Resp: 57734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.1 | 37.7 |




**Instrument :**
MSVOA_Y
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ICVVY122624

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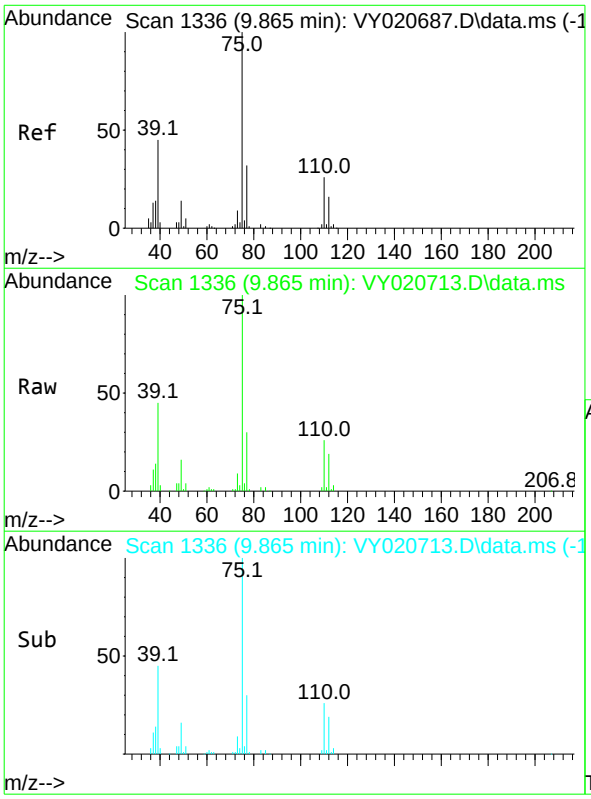
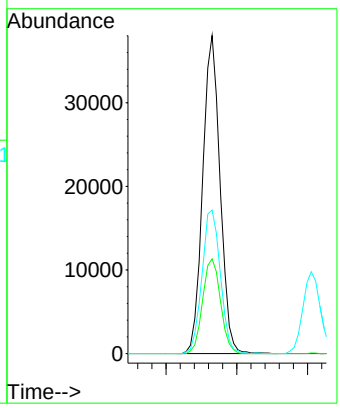
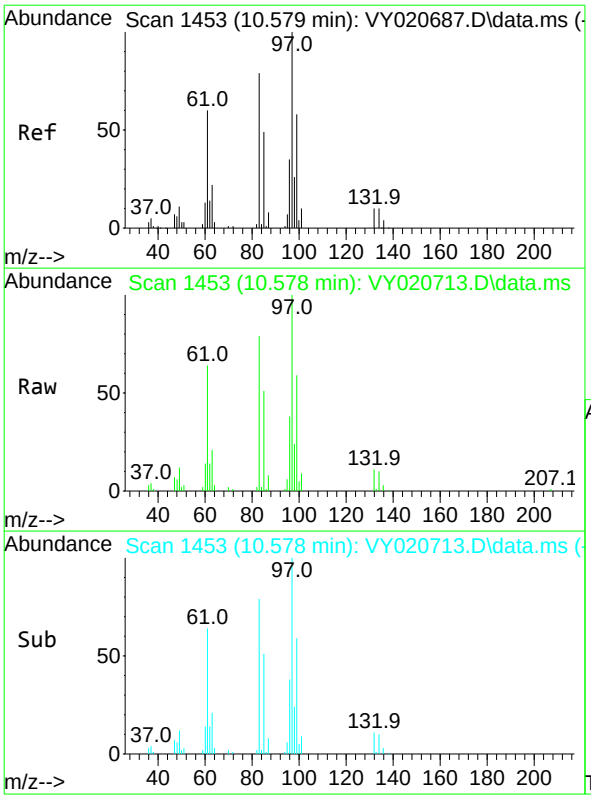



#54
cis-1,3-Dichloropropene
Concen: 49.949 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 75 Resp: 64766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.8 | 25.6 | 38.4 |
| 39 | 45.1 | 36.2 | 54.2 |

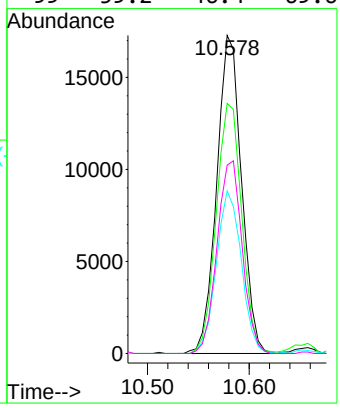





#55
1,1,2-Trichloroethane
Concen: 48.206 ug/l
RT: 10.578 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 97 Resp: 29233

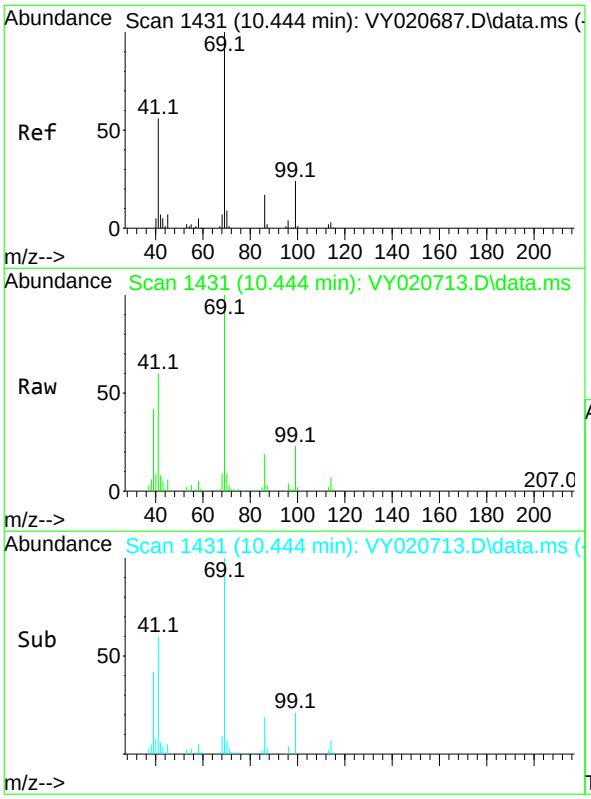
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 78.6 | 63.1 | 94.7 |
| 85 | 51.1 | 39.5 | 59.3 |
| 99 | 59.2 | 46.4 | 69.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

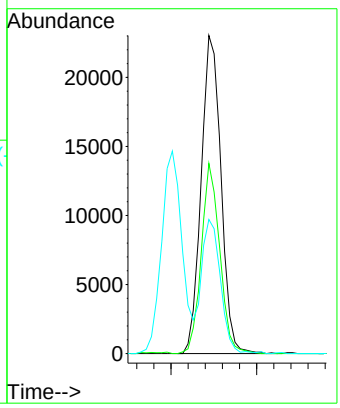
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

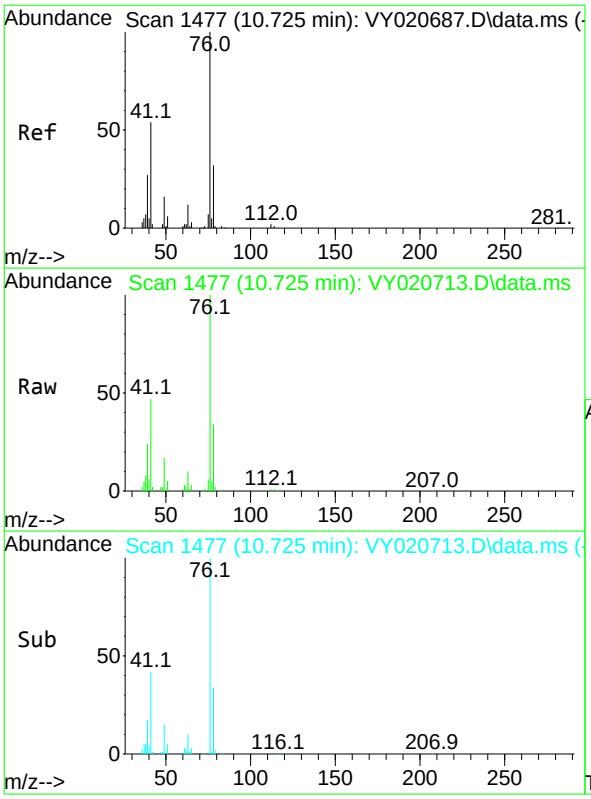



#56
Ethyl methacrylate
Concen: 46.506 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 69 Resp: 37050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 55.6 | 43.8 | 65.6 |
| 39 | 40.6 | 32.0 | 48.0 |

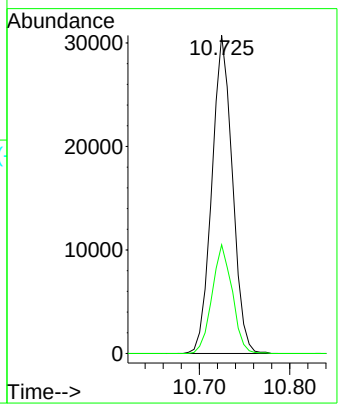





#57
1,3-Dichloropropane
Concen: 49.234 ug/l
RT: 10.725 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 76 Resp: 48458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.6 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
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ICVVY122624

**Manual Integrations APPROVED**

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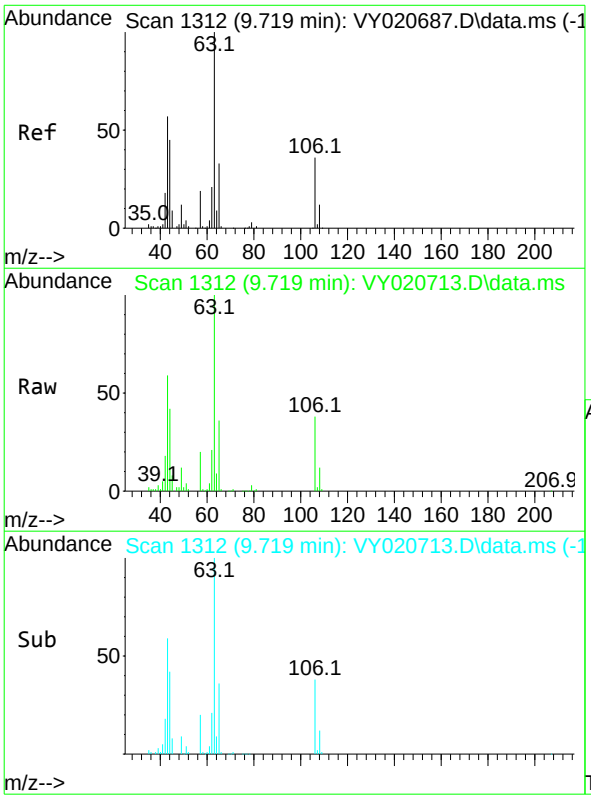
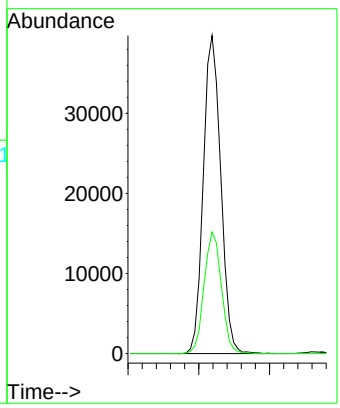
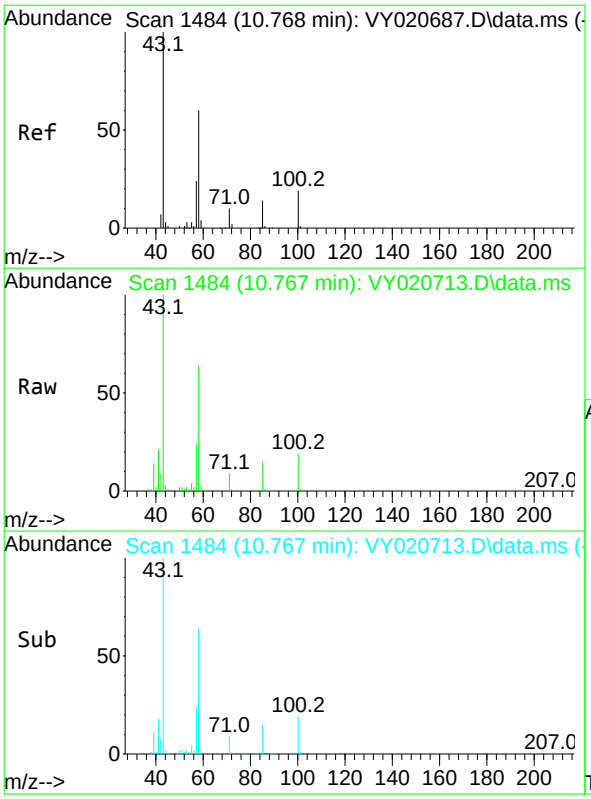



#58
2-Chloroethyl Vinyl ether
Concen: 244.679 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 63 Resp: 67974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 38.0 | 29.1 | 43.7 |

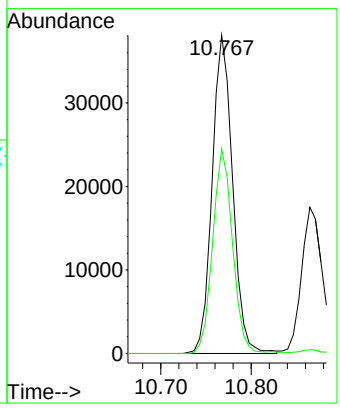





#59
2-Hexanone
Concen: 229.110 ug/l
RT: 10.767 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 59853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 62.7 | 30.1 | 90.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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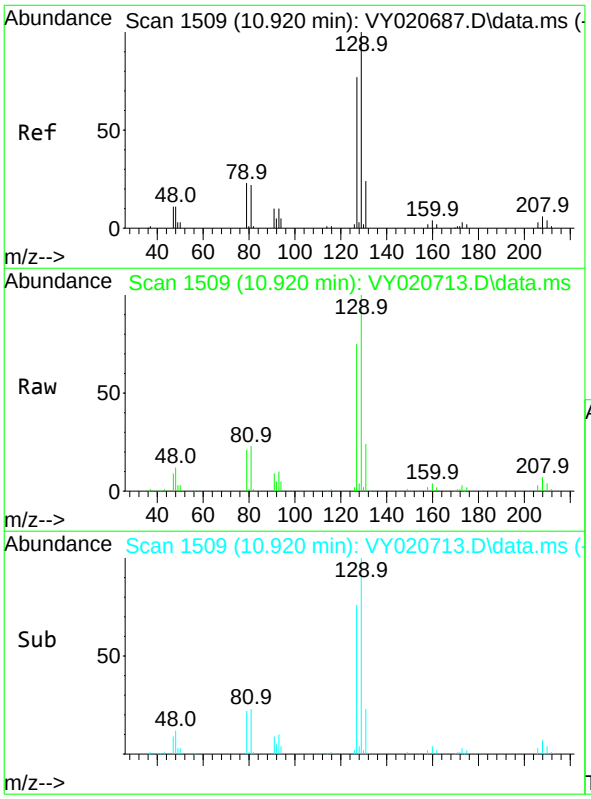
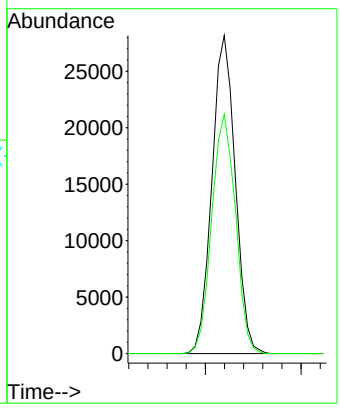
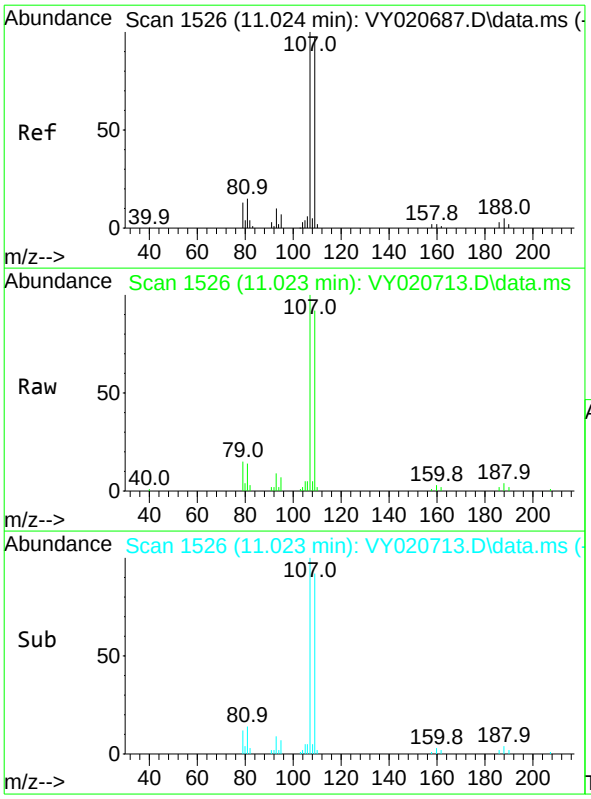



#60
Dibromochloromethane
Concen: 48.574 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:129 Resp: 47597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.7 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 48.387 ug/l
RT: 11.023 min Scan# 15
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:107 Resp: 27610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.0 | 75.5 | 113.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

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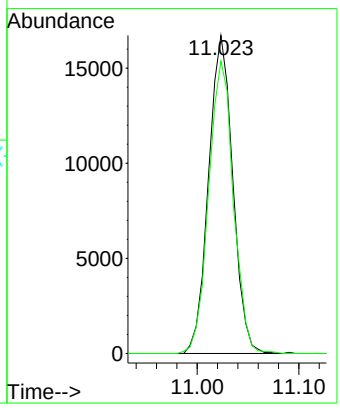
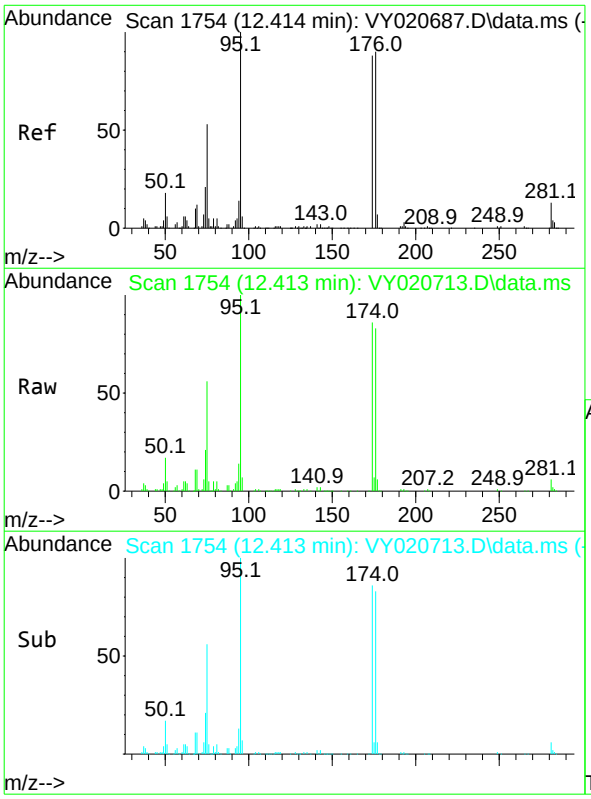
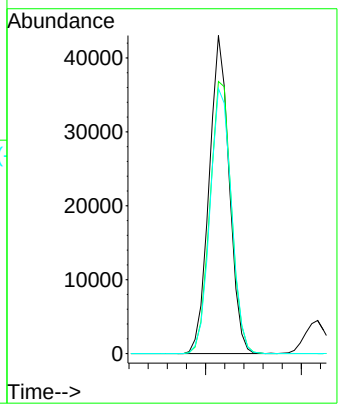


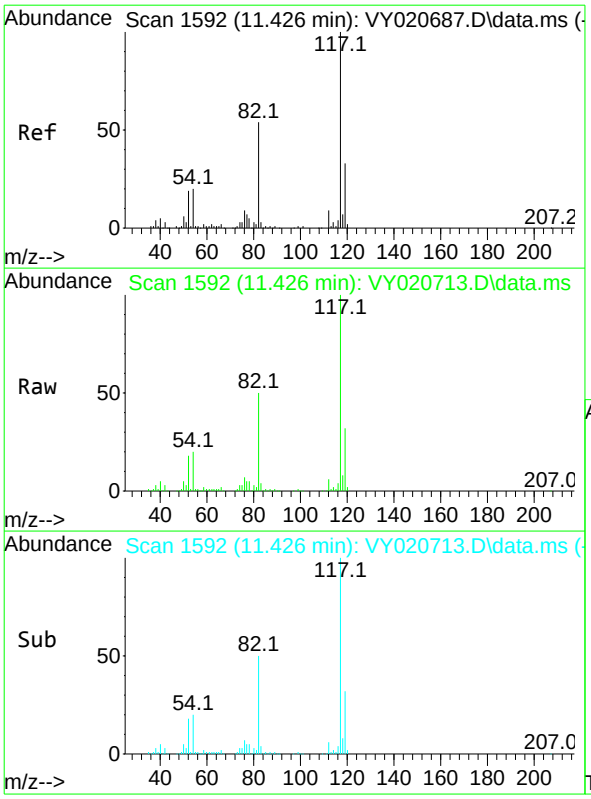




#62
4-Bromofluorobenzene
Concen: 53.215 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 95 Resp: 62660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.1 | 0.0 | 179.2 |
| 176 | 88.9 | 0.0 | 179.8 |

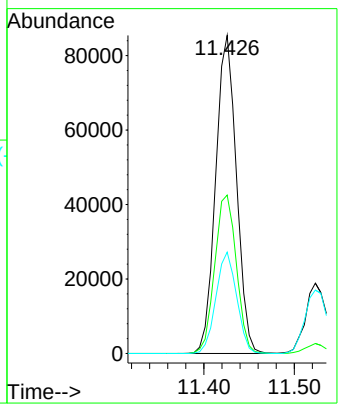





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:117 Resp: 136421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 49.8 | 43.4 | 65.2 |
| 119 | 31.9 | 26.6 | 39.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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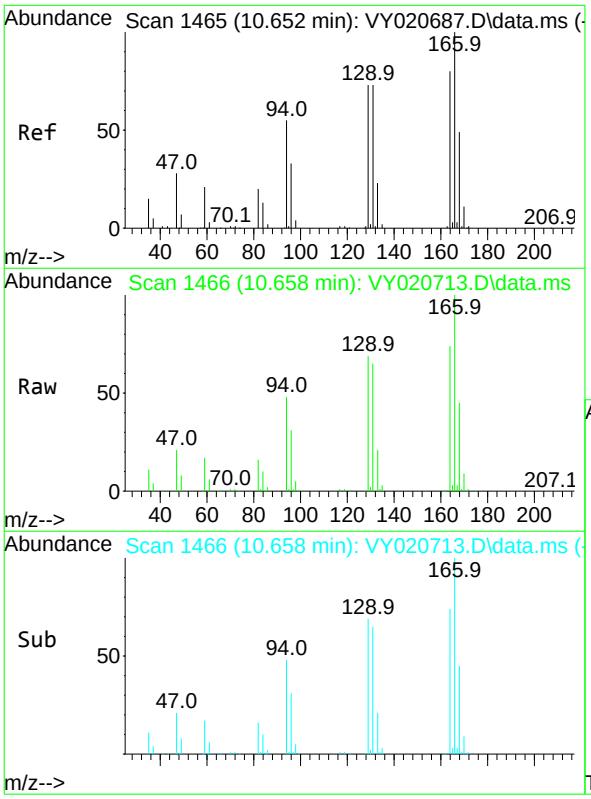
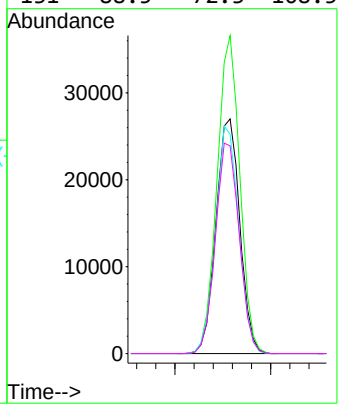
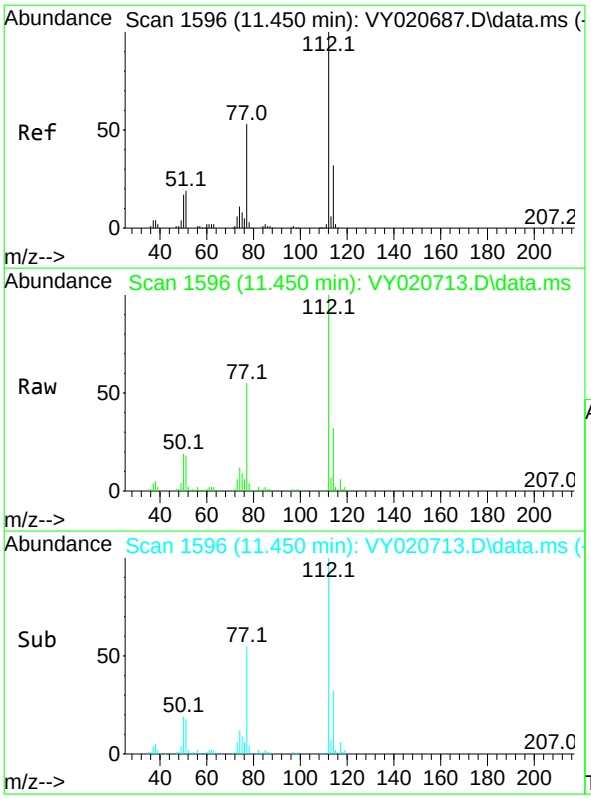



#64
Tetrachloroethene
Concen: 50.131 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:164 Resp: 46724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 135.5 | 99.6 | 149.4 |
| 129 | 93.3 | 73.0 | 109.4 |
| 131 | 88.5 | 72.3 | 108.5 |

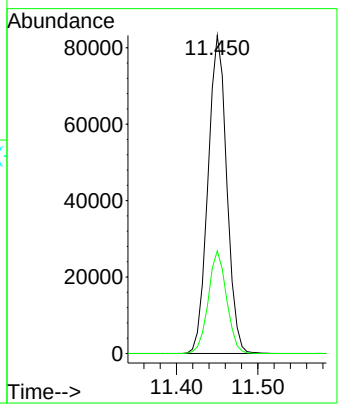





#65
Chlorobenzene
Concen: 49.866 ug/l
RT: 11.450 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:112 Resp: 133203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.3 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
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ICVVY122624

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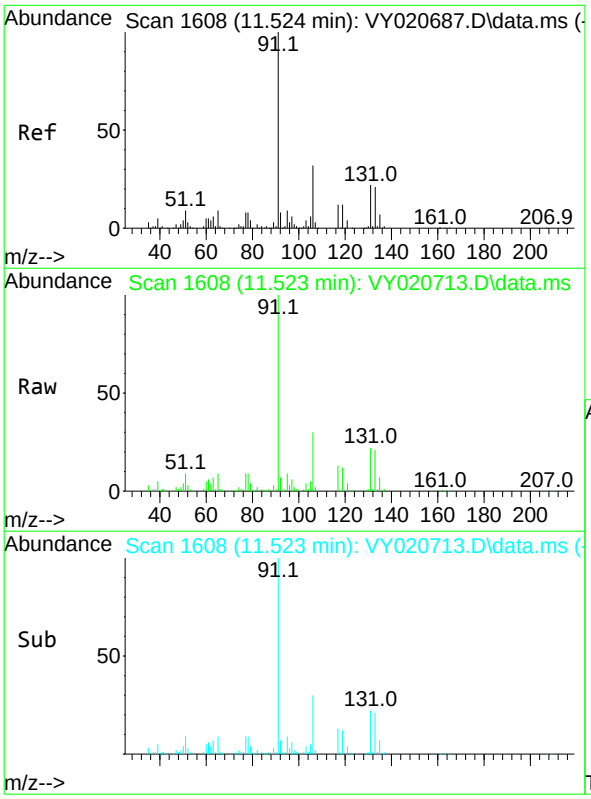
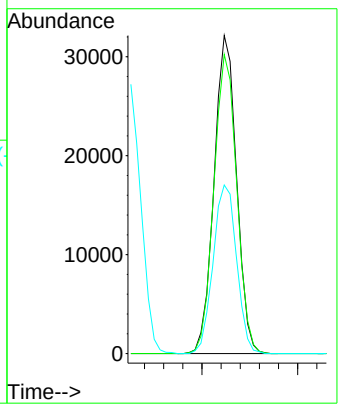
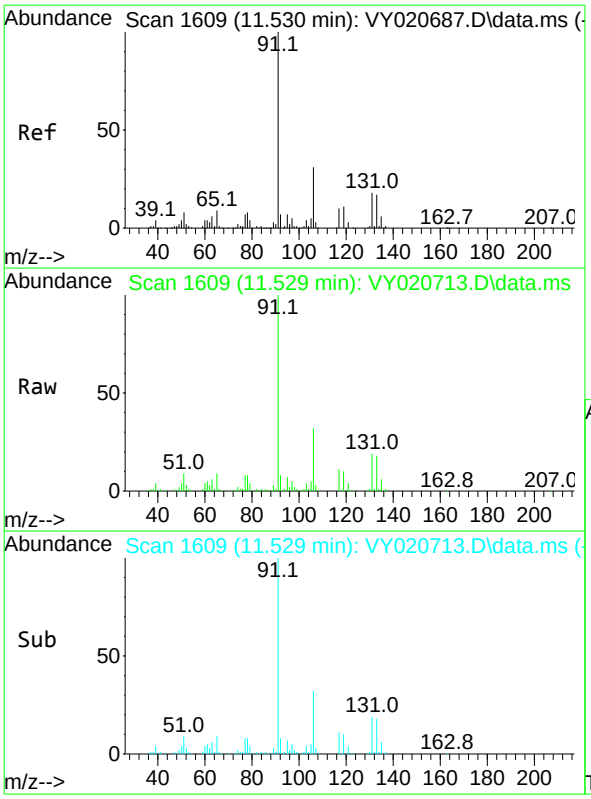



#66
1,1,1,2-Tetrachloroethane
Concen: 50.630 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:131 Resp: 52397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 48.6 | 145.9 |
| 119 | 55.4 | 28.4 | 85.3 |

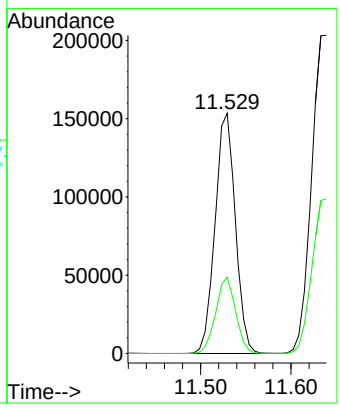





#67
Ethyl Benzene
Concen: 51.151 ug/l
RT: 11.529 min Scan# 16
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 91 Resp: 238810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 24.5 | 36.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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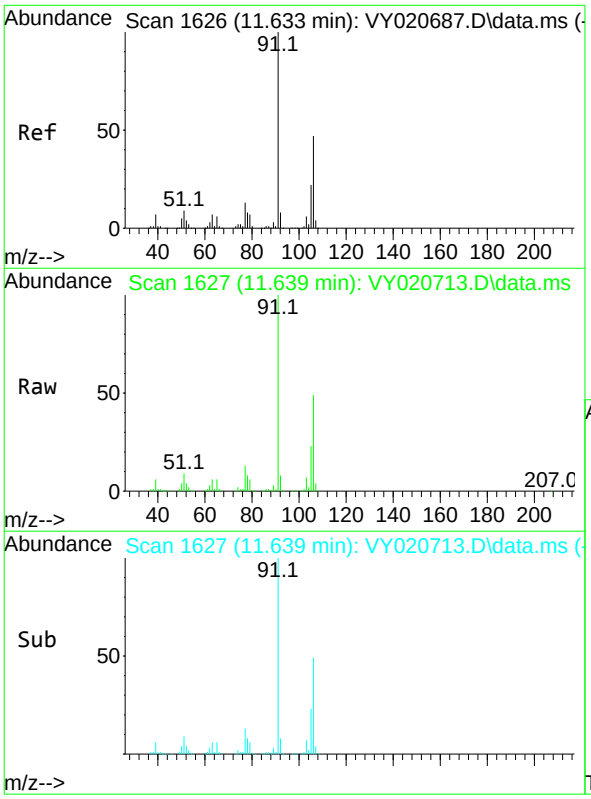
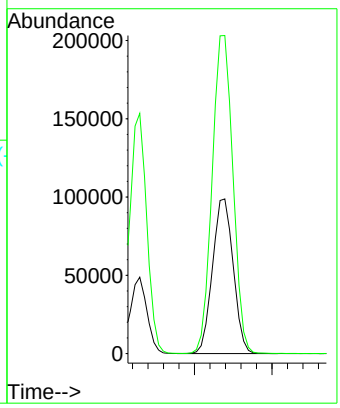
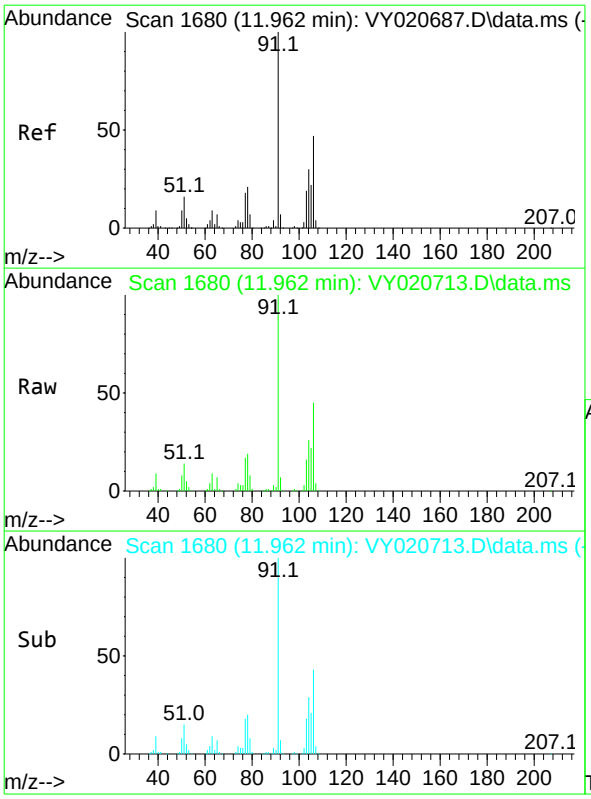



#68
m/p-Xylenes
Concen: 103.152 ug/l
RT: 11.639 min Scan# 1627
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:106 Resp: 183706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 205.9 | 166.6 | 250.0 |

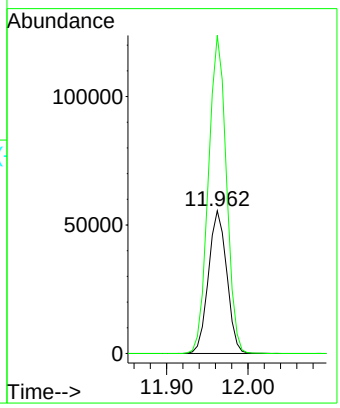





#69
o-Xylene
Concen: 51.032 ug/l
RT: 11.962 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:106 Resp: 86833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.3 | 108.6 | 325.8 |




**Instrument :**
MSVOA_Y
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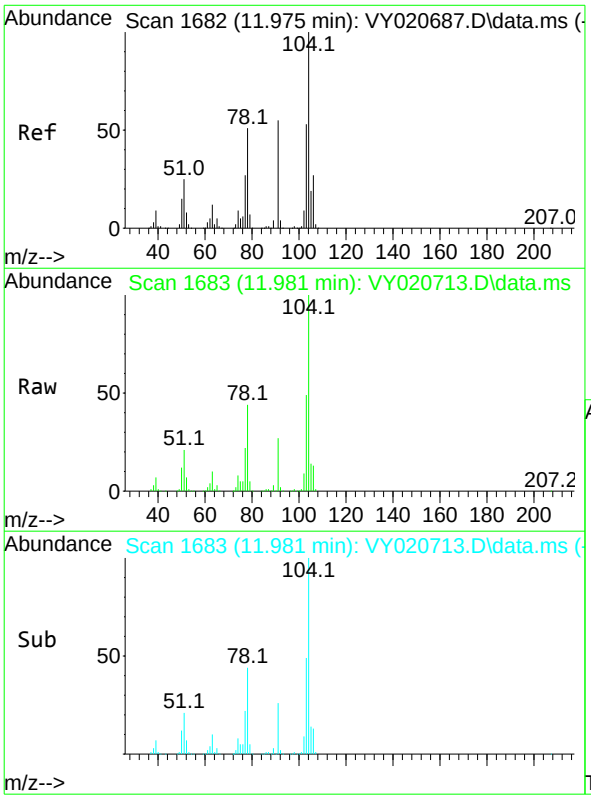
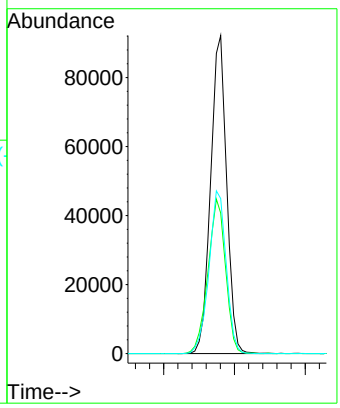
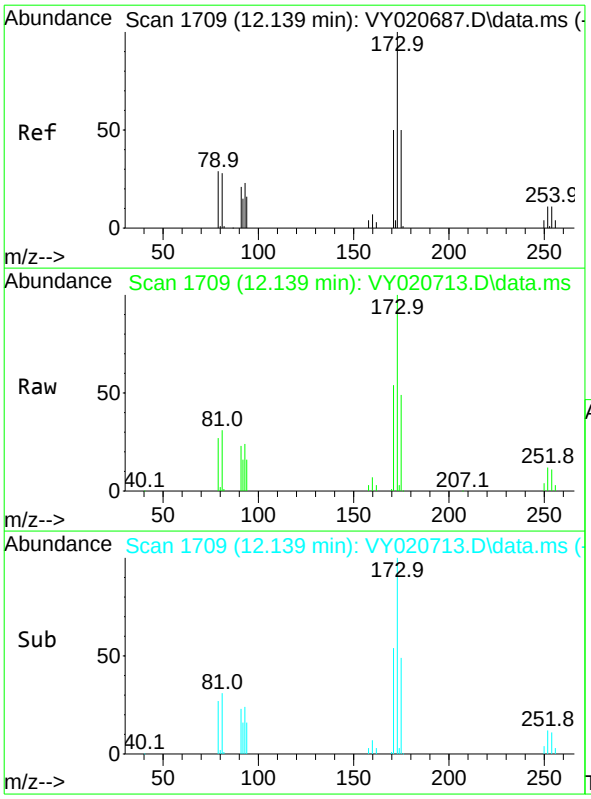



#70
Styrene
Concen: 50.717 ug/l
RT: 11.981 min Scan# 1683
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:104 Resp: 144868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.4 | 43.0 | 64.4 |
| 103 | 55.0 | 44.4 | 66.6 |

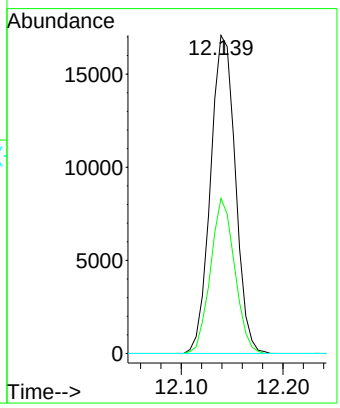





#71
Bromoform
Concen: 48.733 ug/l
RT: 12.139 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:173 Resp: 28995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.4 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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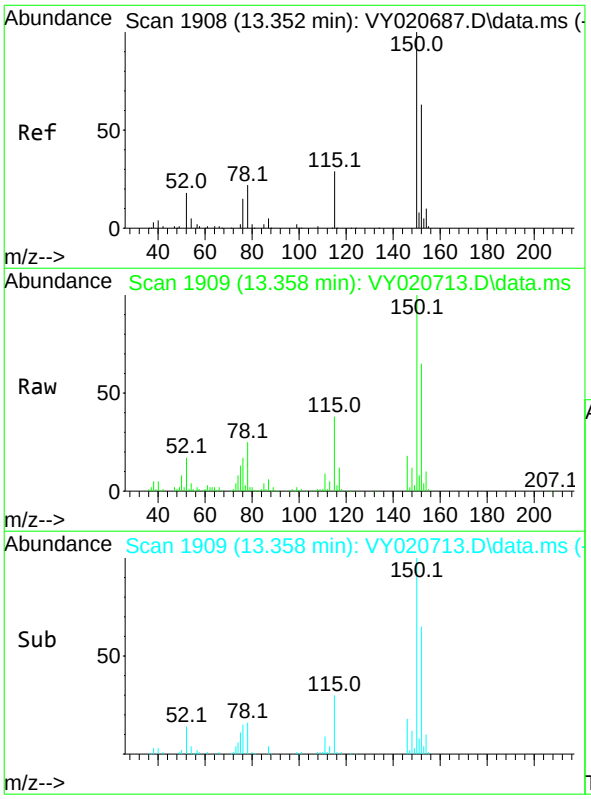
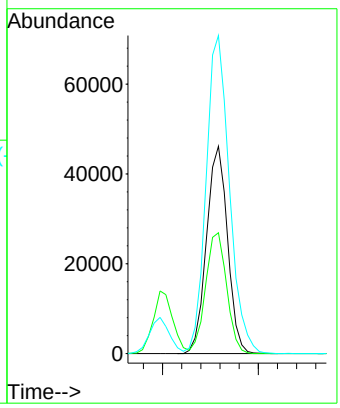
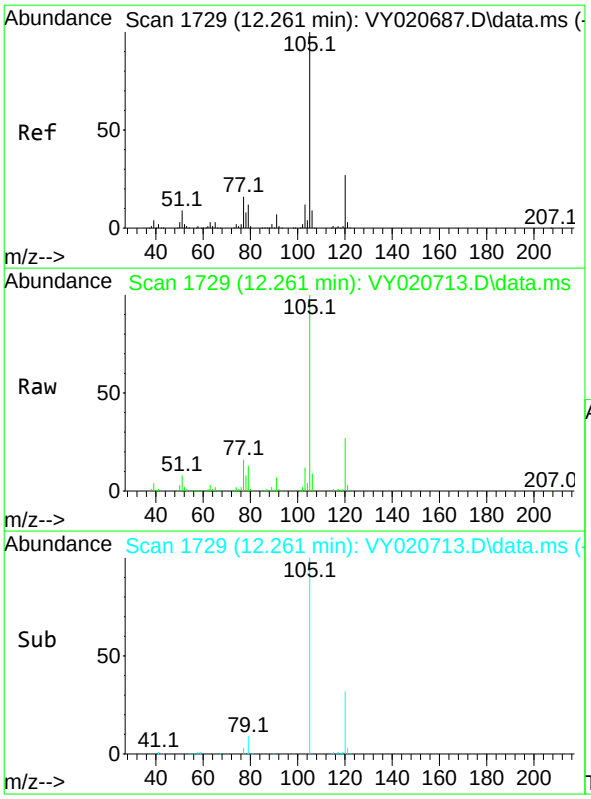



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.358 min Scan# 1909
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:152 Resp: 70383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.4 | 30.3 | 90.9 |
| 150 | 170.0 | 0.0 | 349.0 |

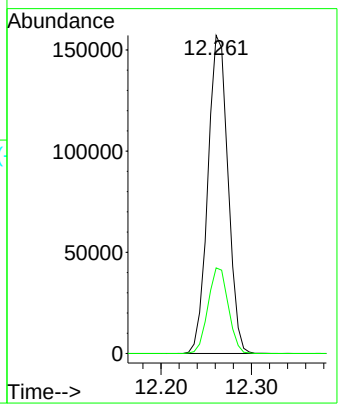





#73
Isopropylbenzene
Concen: 49.720 ug/l
RT: 12.261 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:105 Resp: 242449

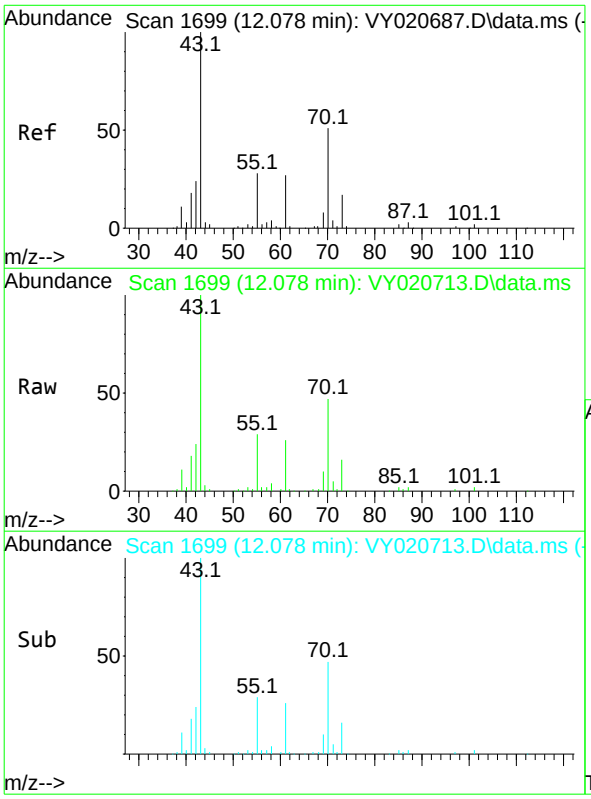
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.3 | 39.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

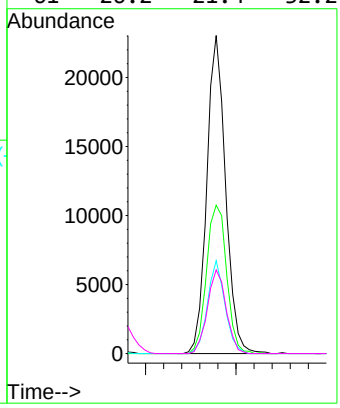
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

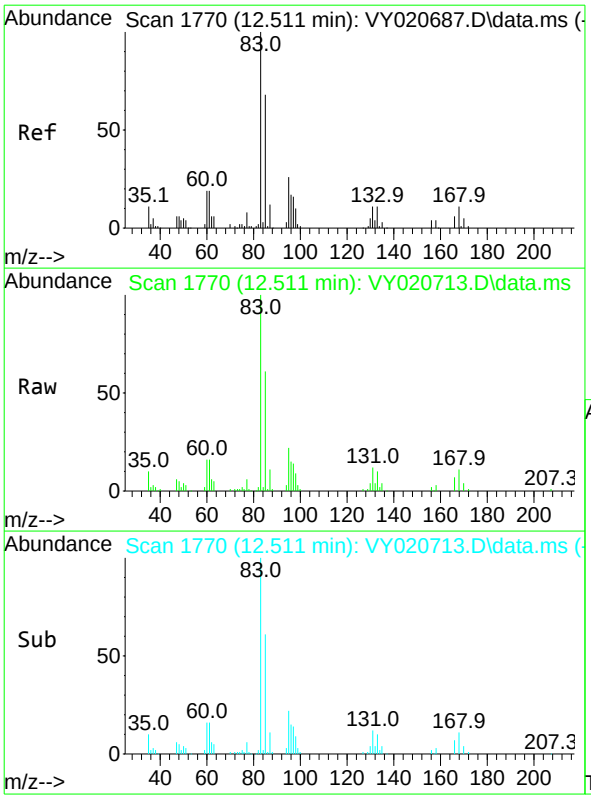



#74
N-amyl acetate
Concen: 48.015 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 33272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.9 | 39.7 | 59.5 |
| 55 | 27.2 | 21.5 | 32.3 |
| 61 | 26.2 | 21.4 | 32.2 |

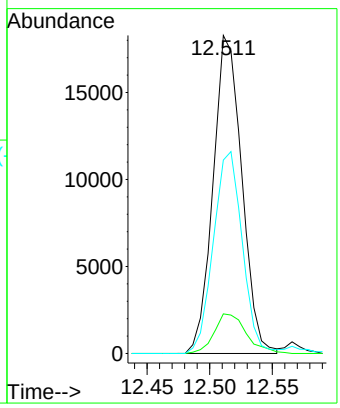





#75
1,1,2,2-Tetrachloroethane
Concen: 46.657 ug/l
RT: 12.511 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 83 Resp: 29166

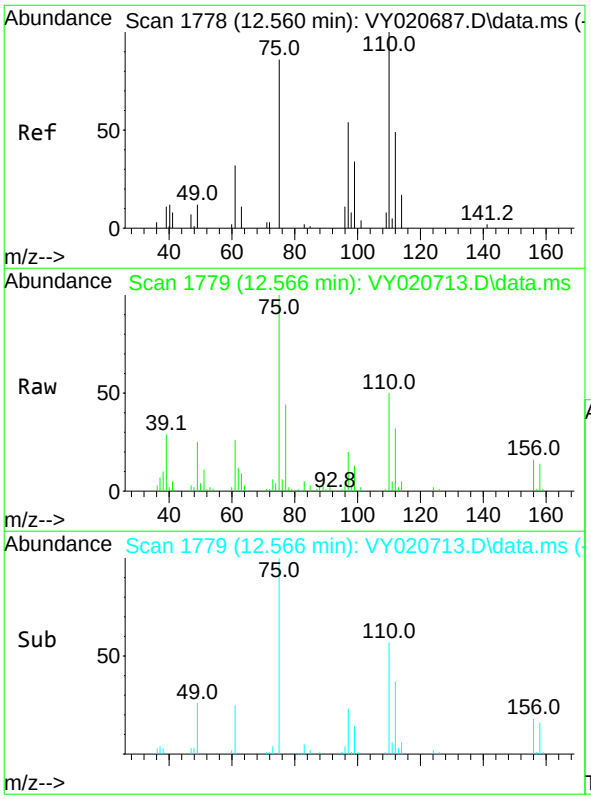
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.0 | 6.9 | 20.7 |
| 85 | 63.9 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

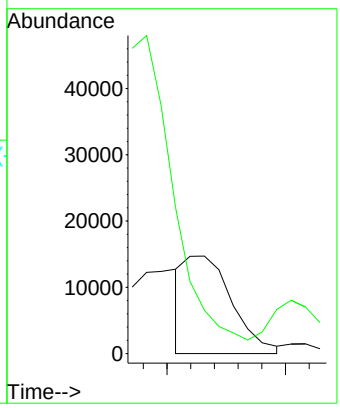
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

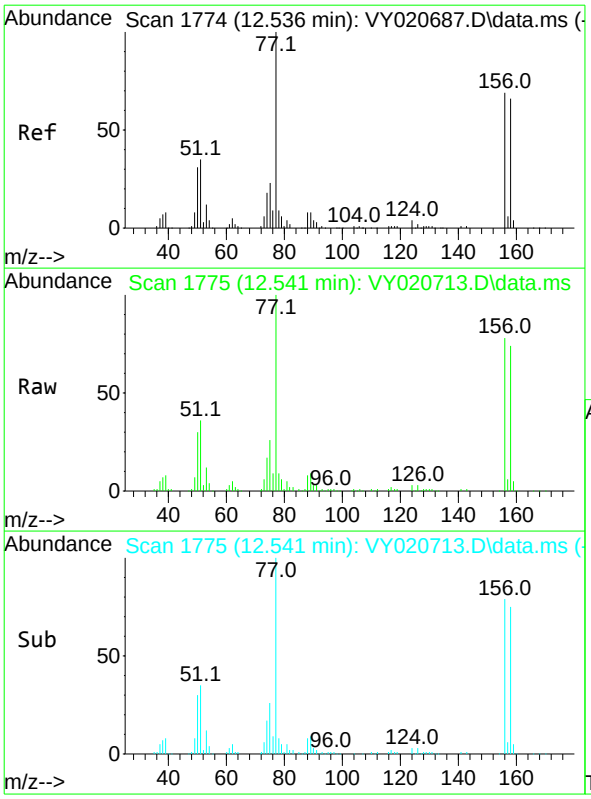



#76
1,2,3-Trichloropropane
Concen: 45.549 ug/l m
RT: 12.566 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 75 Resp: 20390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |






#77
Bromobenzene
Concen: 50.459 ug/l
RT: 12.541 min Scan# 17
Delta R.T. 0.005 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:156 Resp: 56640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 148.5 | 78.3 | 235.0 |
| 158 | 96.1 | 48.3 | 144.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

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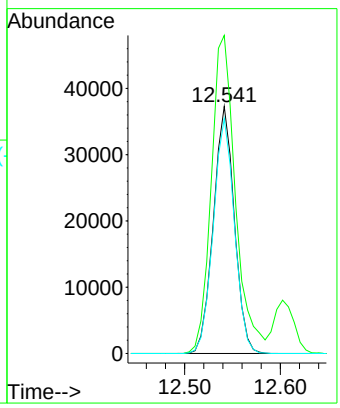
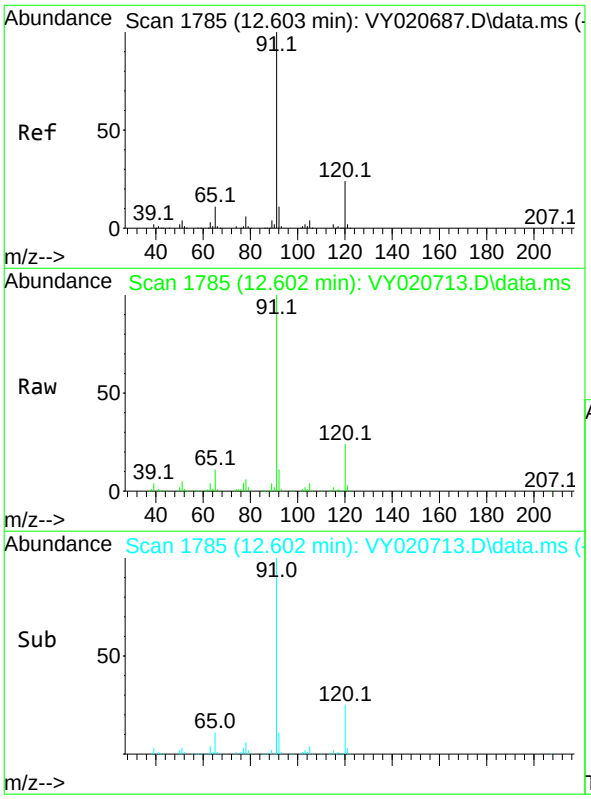
Supervised By :Semsettin Yesilyurt 12/27/2024

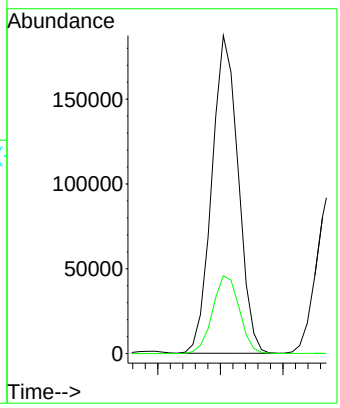


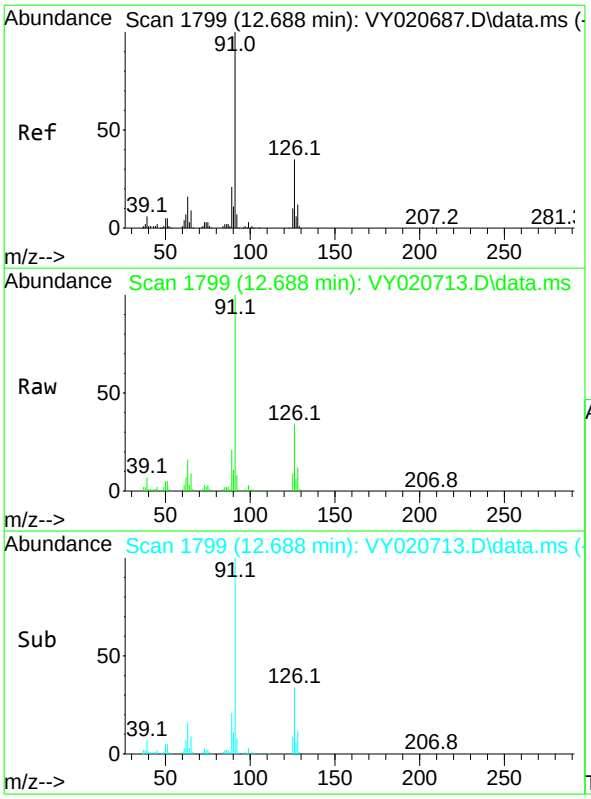




#78
n-propylbenzene
Concen: 50.119 ug/l
RT: 12.602 min Scan# 1785
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 91 Resp: 273917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.9 | 12.3 | 36.8 |

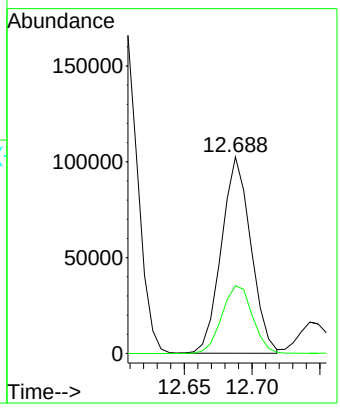





#79
2-Chlorotoluene
Concen: 49.656 ug/l
RT: 12.688 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 91 Resp: 154710

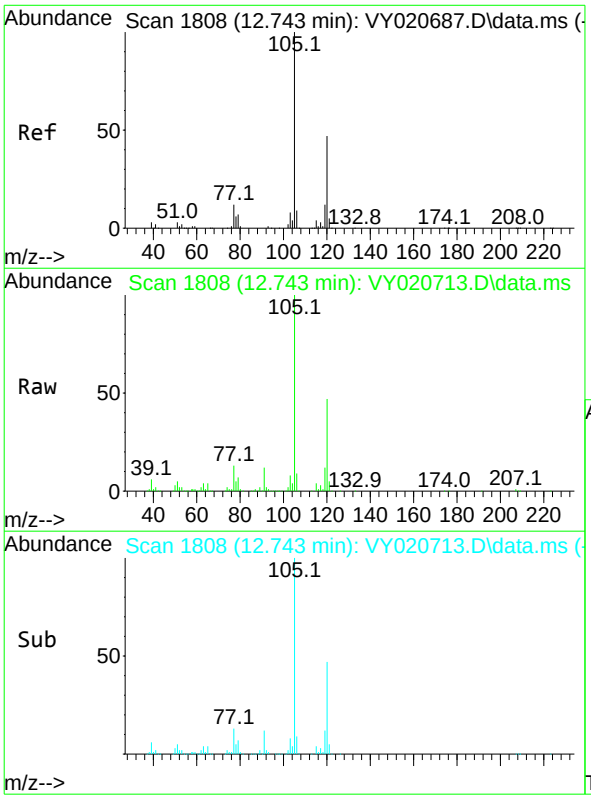
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.9 | 17.8 | 53.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

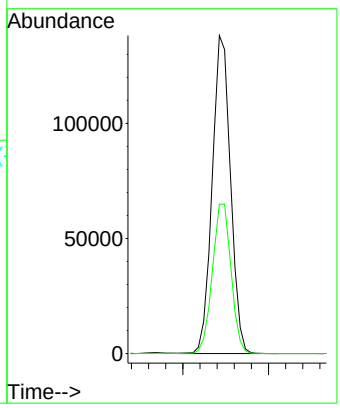
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

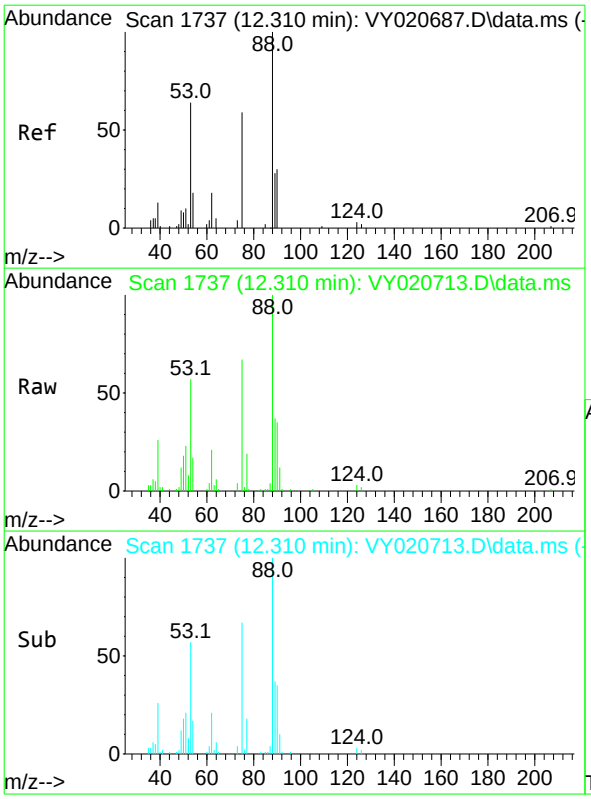



#80
1,3,5-Trimethylbenzene
Concen: 50.488 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:105 Resp: 205116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.2 | 23.9 | 71.7 |

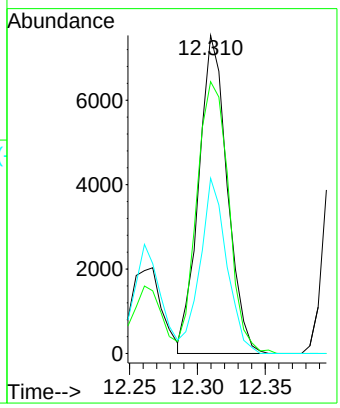





#81
trans-1,4-Dichloro-2-butene
Concen: 48.646 ug/l
RT: 12.310 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 75 Resp: 11017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.0 | 83.1 | 124.7 |
| 89 | 51.5 | 40.6 | 61.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

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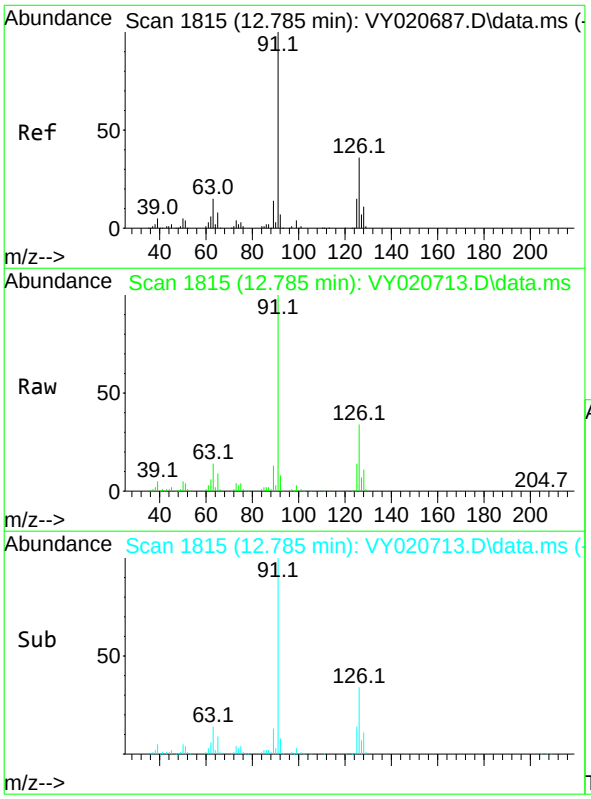
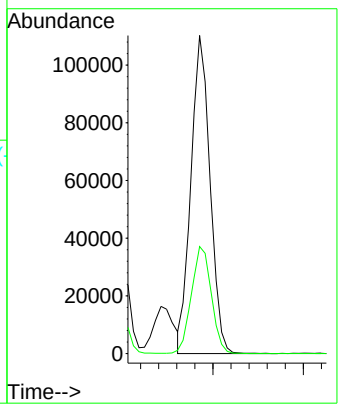
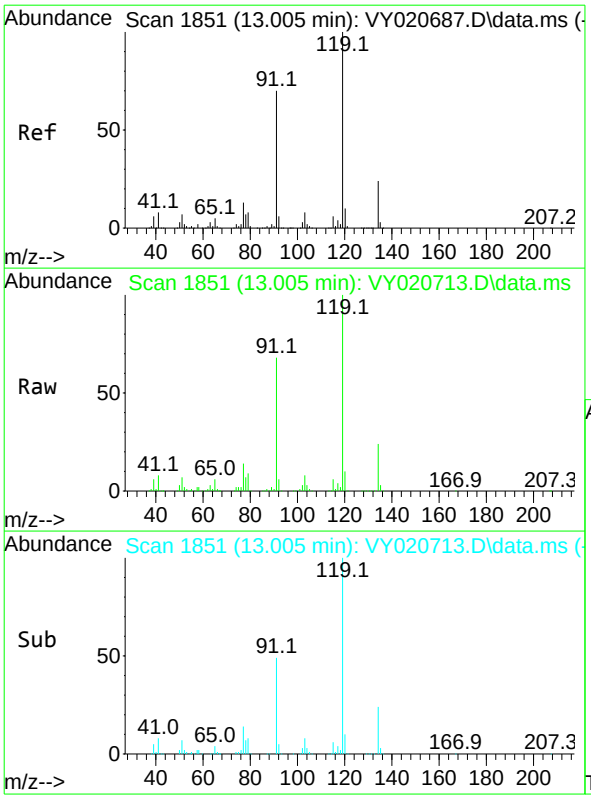



#82
4-Chlorotoluene
Concen: 50.168 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 91 Resp: 161536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.2 | 17.8 | 53.5 |

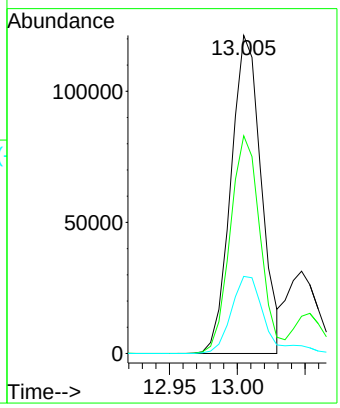





#83
tert-Butylbenzene
Concen: 49.565 ug/l
RT: 13.005 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:119 Resp: 188052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 68.2 | 33.6 | 100.8 |
| 134 | 27.0 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations**
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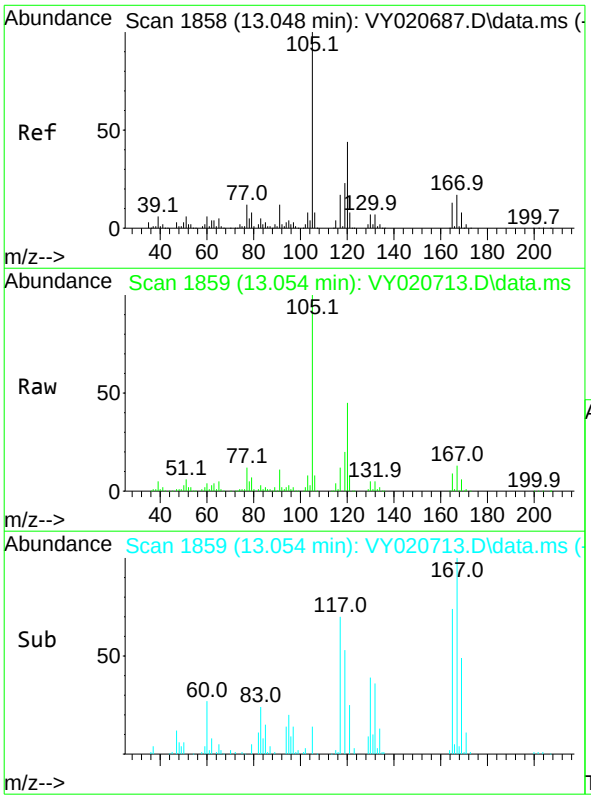
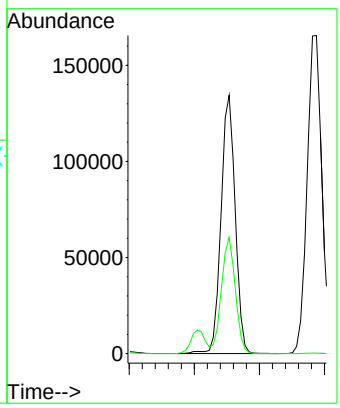
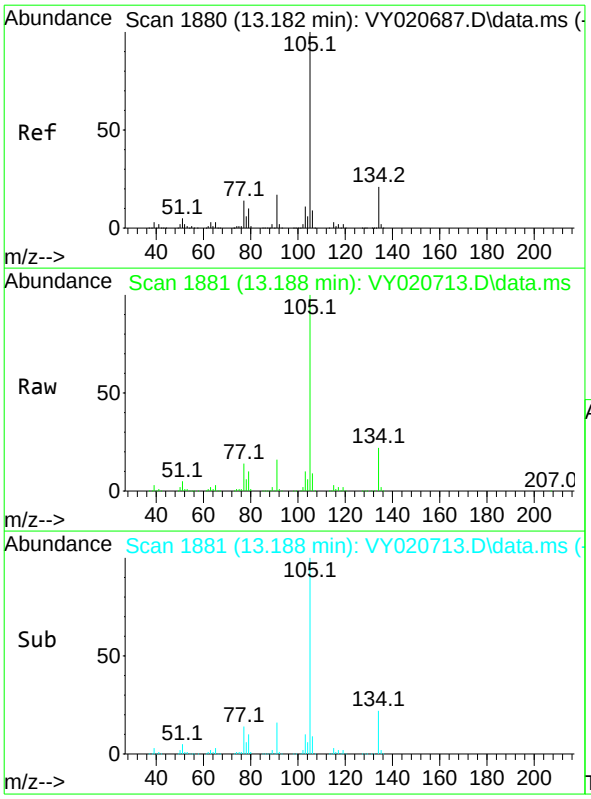



#84
1,2,4-Trimethylbenzene
Concen: 51.350 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.005 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:105 Resp: 203012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.2 | 21.8 | 65.3 |

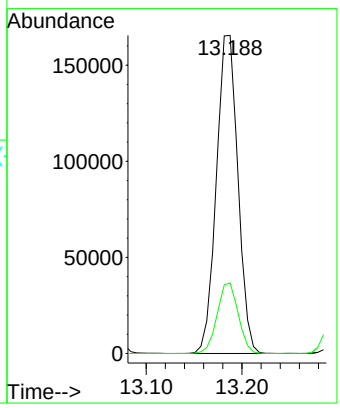





#85
sec-Butylbenzene
Concen: 50.578 ug/l
RT: 13.188 min Scan# 18
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:105 Resp: 258622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.7 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
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ICVVY122624

**Manual Integrations**
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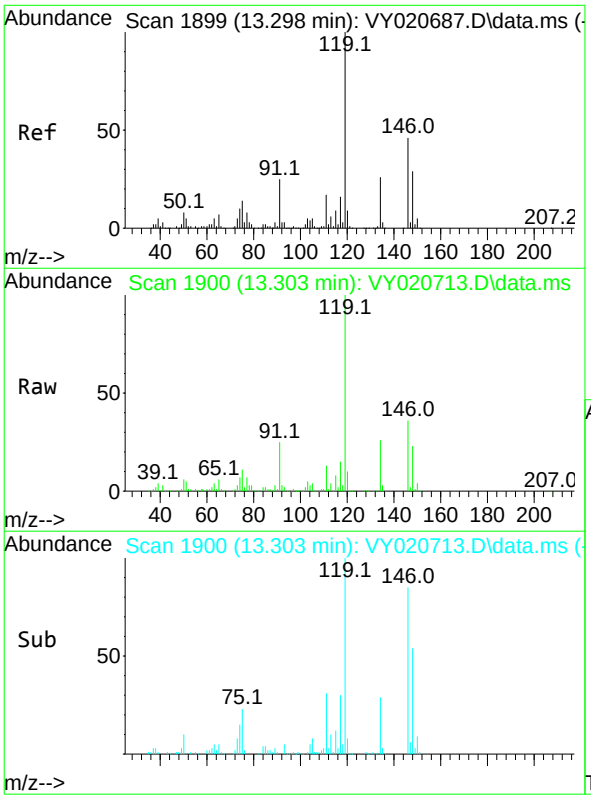
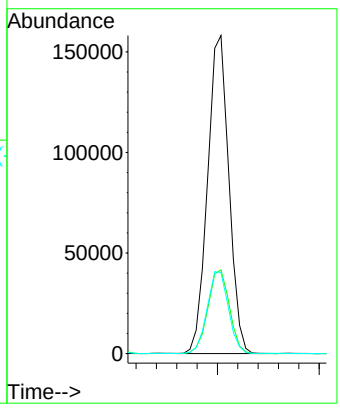
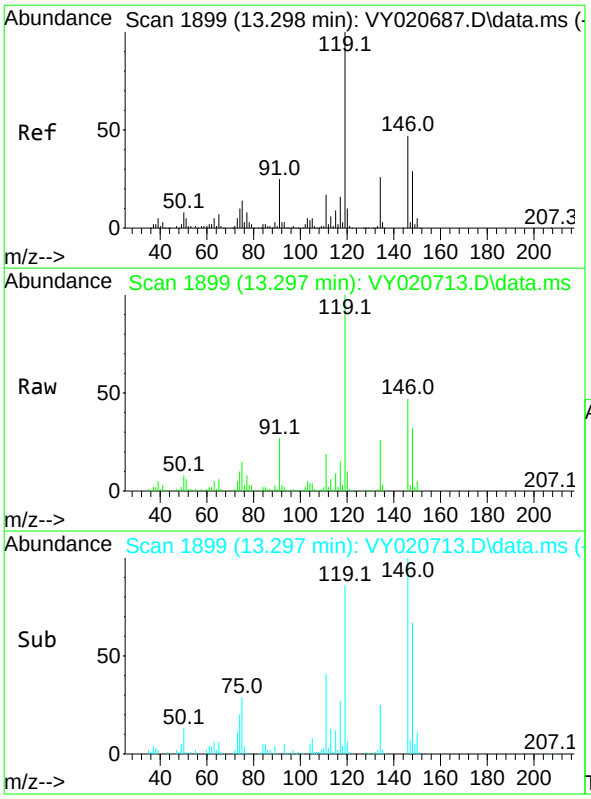



#86
p-Isopropyltoluene
Concen: 50.557 ug/l
RT: 13.303 min Scan# 1900
Delta R.T. 0.005 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:119 Resp: 230385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.4 | 40.2 |
| 91 | 25.8 | 12.9 | 38.6 |

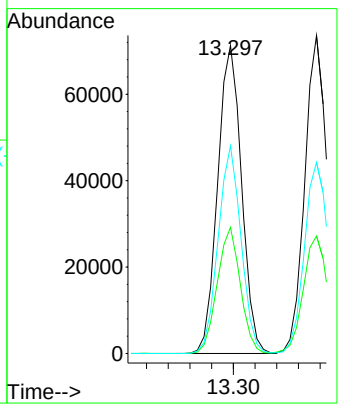





#87
1,3-Dichlorobenzene
Concen: 49.657 ug/l
RT: 13.297 min Scan# 18
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:146 Resp: 108941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.6 | 19.3 | 57.8 |
| 148 | 64.8 | 31.1 | 93.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

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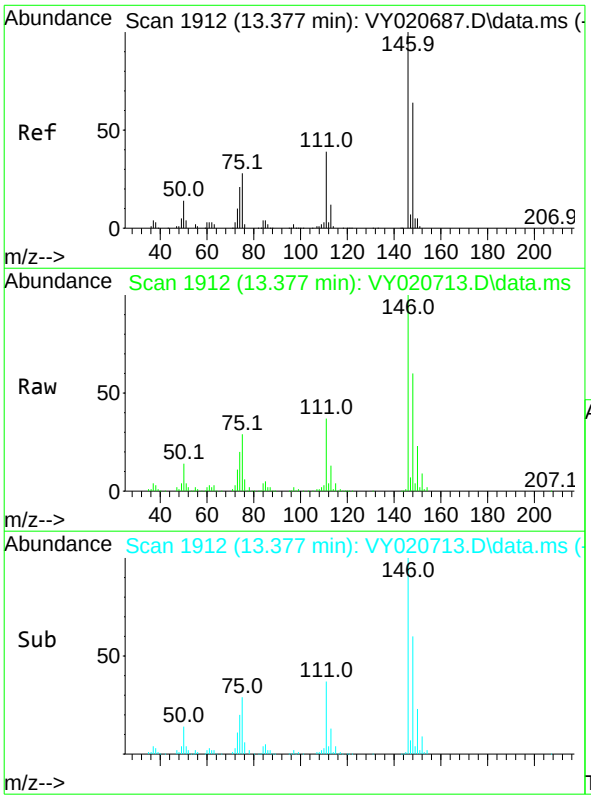
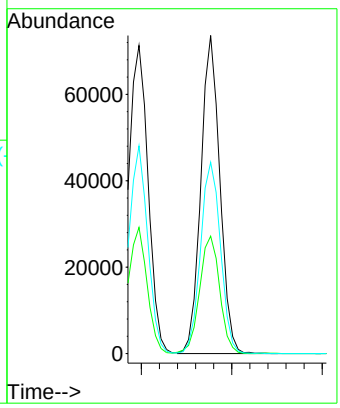
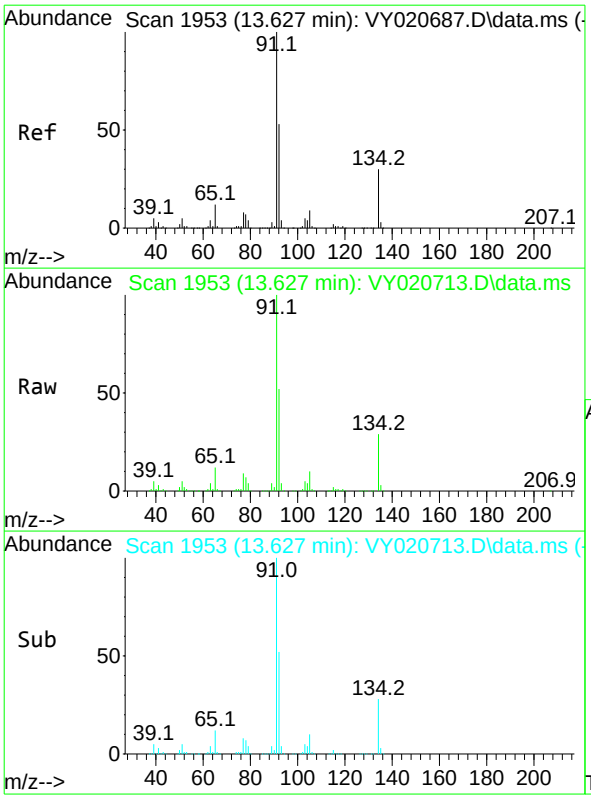



#88
1,4-Dichlorobenzene
Concen: 49.305 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:146 Resp: 107603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.0 | 19.7 | 59.0 |
| 148 | 63.3 | 32.8 | 98.3 |

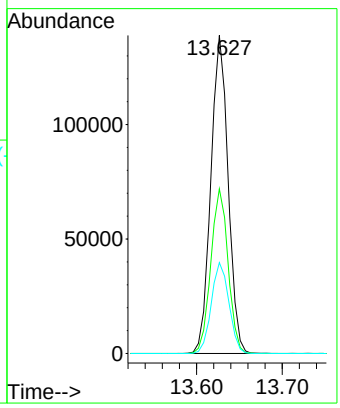





#89
n-Butylbenzene
Concen: 51.082 ug/l
RT: 13.627 min Scan# 19
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 91 Resp: 194314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.7 | 26.1 | 78.2 |
| 134 | 29.2 | 14.8 | 44.4 |




**Instrument :**
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**ClientSampleId :**
ICVVY122624

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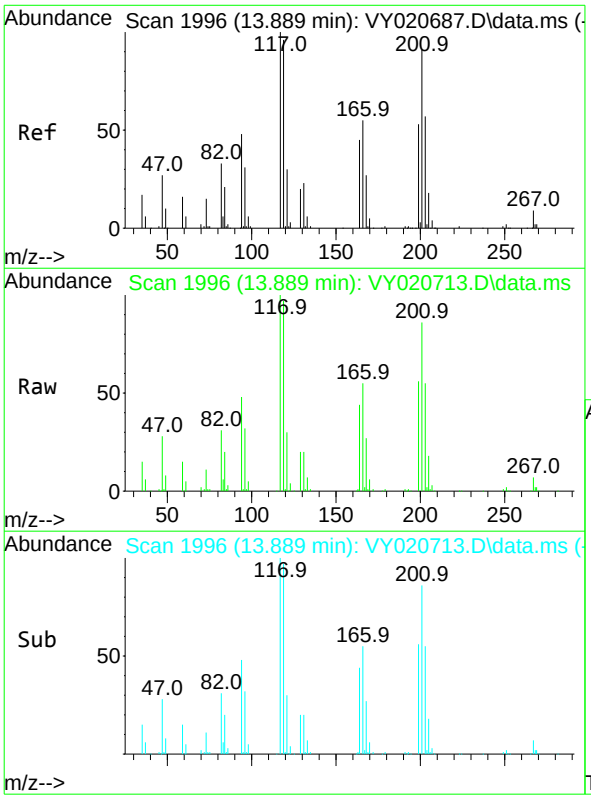
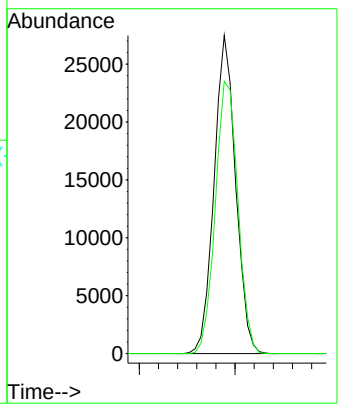
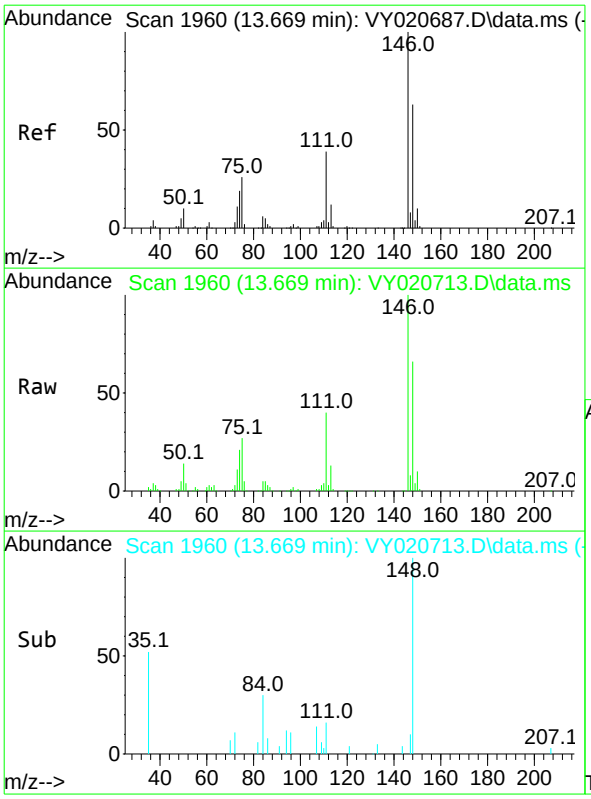



#90
Hexachloroethane
Concen: 49.619 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:117 Resp: 42996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 89.5 | 44.9 | 134.7 |

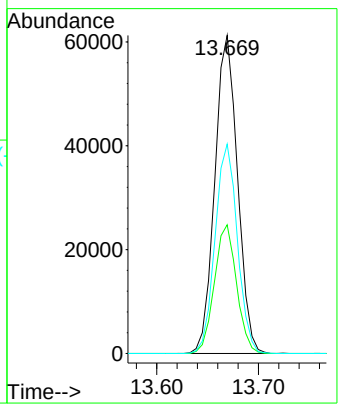





#91
1,2-Dichlorobenzene
Concen: 50.573 ug/l
RT: 13.669 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:146 Resp: 95132

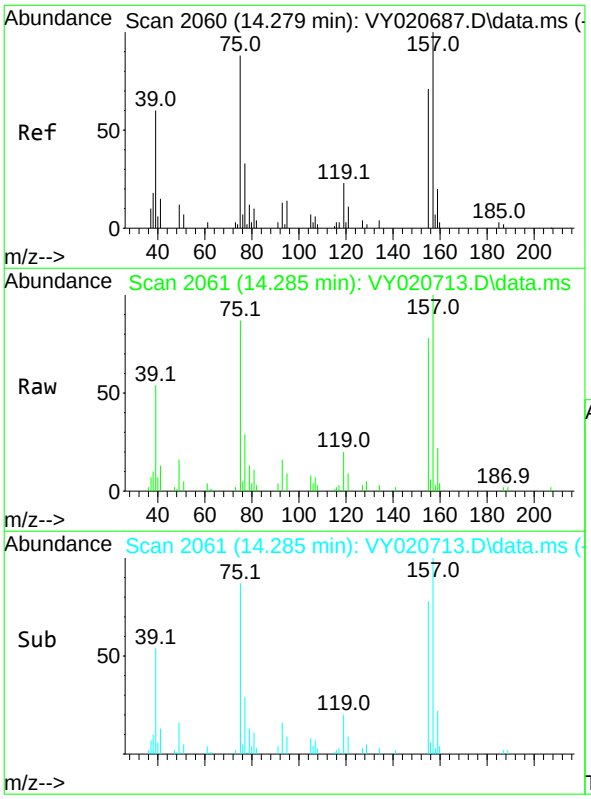
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 20.3 | 60.8 |
| 148 | 64.7 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

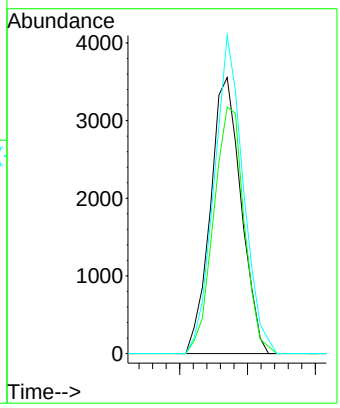
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

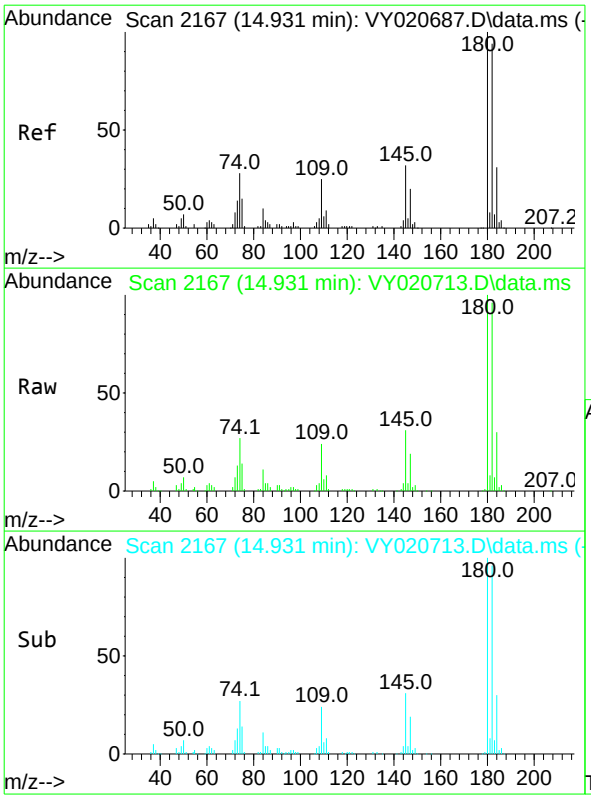



#92
1,2-Dibromo-3-Chloropropane
Concen: 46.197 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 75 Resp: 5601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.6 | 43.4 | 130.2 |
| 157 | 109.3 | 58.6 | 175.7 |

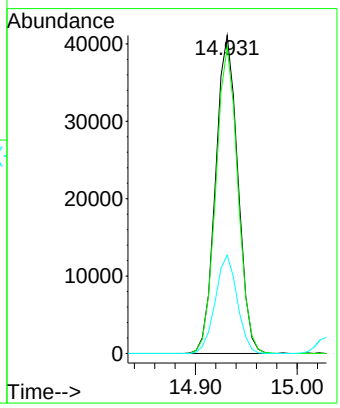





#93
1,2,4-Trichlorobenzene
Concen: 52.197 ug/l
RT: 14.931 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:180 Resp: 62409

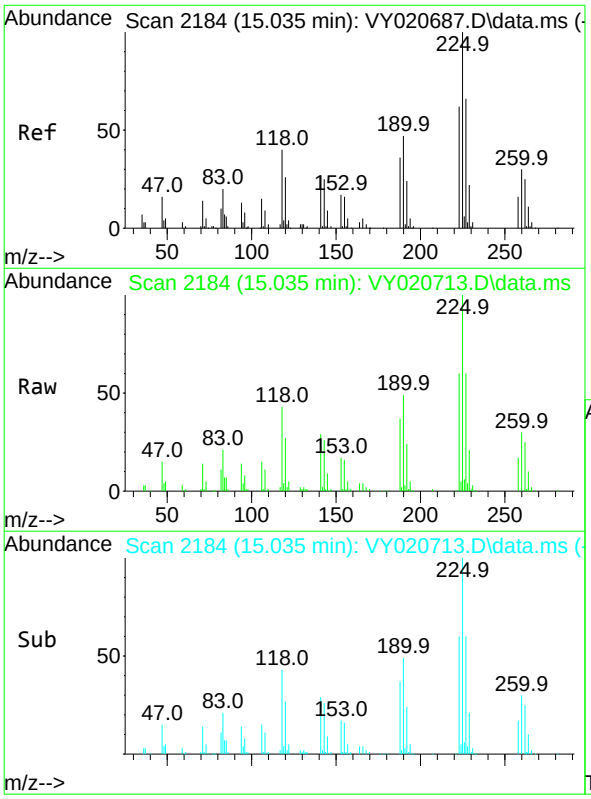
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 47.9 | 143.7 |
| 145 | 30.5 | 15.6 | 46.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

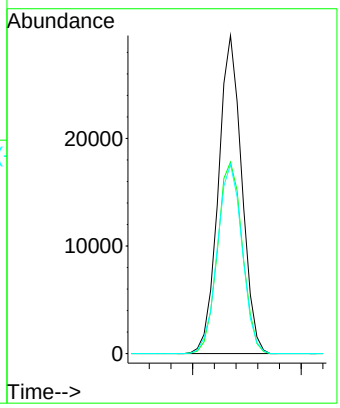
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

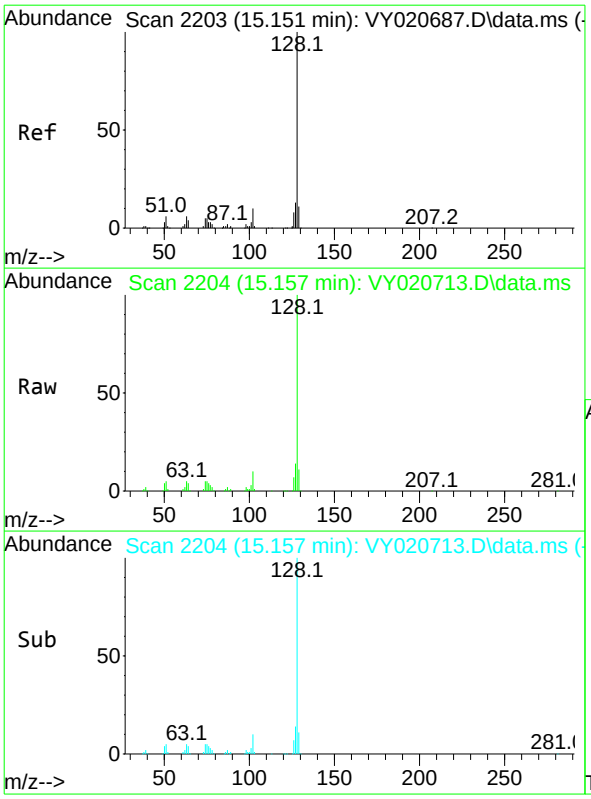



#94
Hexachlorobutadiene
Concen: 50.811 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:225 Resp: 44277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 31.3 | 93.8 |
| 227 | 63.1 | 32.1 | 96.5 |

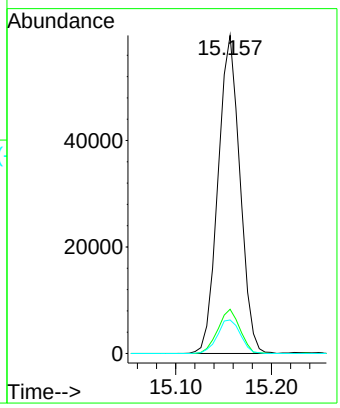





#95
Naphthalene
Concen: 49.600 ug/l
RT: 15.157 min Scan# 22
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:128 Resp: 94983

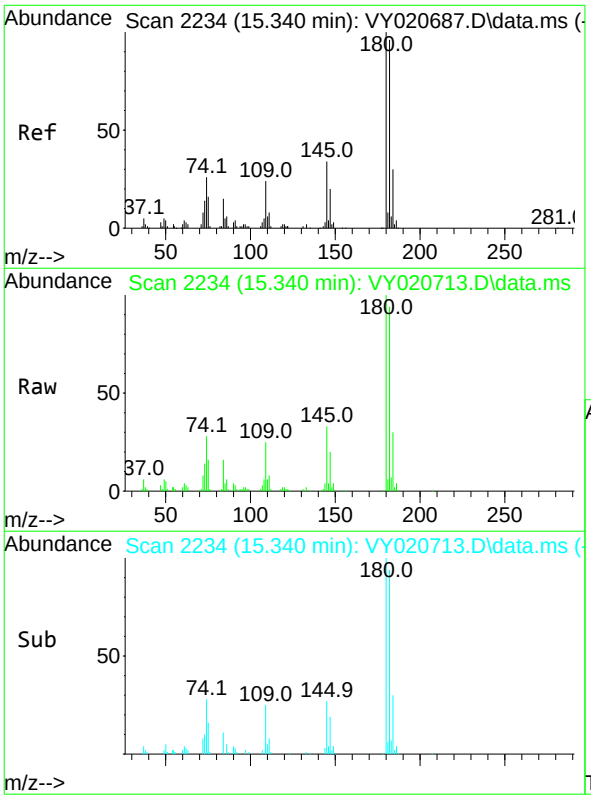
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 14.0 | 10.7 | 16.1 |
| 129 | 11.1 | 8.6 | 12.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

**Manual Integrations APPROVED**

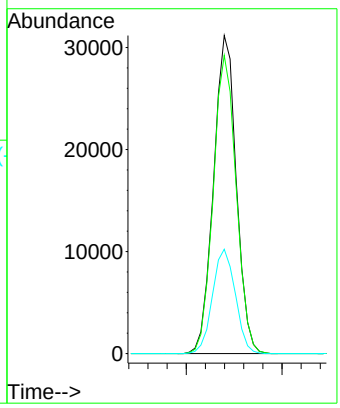
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024




#96
1,2,3-Trichlorobenzene
Concen: 51.643 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:180 Resp: 51411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 47.4 | 142.2 |
| 145 | 32.9 | 16.7 | 50.1 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 122 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.394 | 0.374 | 5.1 | 113 | 0.00 |
| 3 | P | Chloromethane | 0.147 | 0.161 | -9.5 | 126 | 0.00 |
| 4 | C | Vinyl Chloride | 0.182 | 0.181 | 0.5# | 114 | 0.00 |
| 5 | T | Bromomethane | 0.137 | 0.140 | -2.2 | 121 | 0.00 |
| 6 | T | Chloroethane | 0.109 | 0.112 | -2.8 | 121 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.699 | 0.684 | 2.1 | 117 | 0.00 |
| 8 | T | Diethyl Ether | 0.166 | 0.167 | -0.6 | 115 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.384 | 0.371 | 3.4 | 116 | 0.00 |
| 10 | T | Methyl Iodide | 0.420 | 0.429 | -2.1 | 115 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.031 | 0.022 | 29.0# | 94 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.342 | 0.339 | 0.9# | 117 | 0.00 |
| 13 | T | Acrolein | 0.009 | 0.005 | 44.4# | 95 | 0.00 |
| 14 | T | Allyl chloride | 0.400 | 0.408 | -2.0 | 120 | 0.00 |
| 15 | T | Acrylonitrile | 0.064 | 0.058 | 9.4 | 100 | 0.00 |
| 16 | T | Acetone | 0.052 | 0.043 | 17.3 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 0.838 | 0.881 | -5.1 | 119 | 0.00 |
| 18 | T | Methyl Acetate | 0.141 | 0.137 | 2.8 | 105 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 0.952 | 0.913 | 4.1 | 110 | 0.00 |
| 20 | T | Methylene Chloride | 0.338 | 0.340 | -0.6 | 121 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.368 | 0.376 | -2.2 | 117 | 0.00 |
| 22 | T | Diisopropyl ether | 0.813 | 0.820 | -0.9 | 117 | 0.00 |
| 23 | T | Vinyl Acetate | 0.486 | 0.472 | 2.9 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.609 | 0.616 | -1.1 | 121 | 0.00 |
| 25 | T | 2-Butanone | 0.070 | 0.063 | 10.0 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 0.746 | 0.706 | 5.4 | 115 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.441 | 0.438 | 0.7 | 116 | 0.00 |
| 28 | T | Bromochloromethane | 0.161 | 0.175 | -8.7 | 111 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.043 | 0.039 | 9.3 | 97 | 0.00 |
| 30 | C | Chloroform | 0.784 | 0.758 | 3.3# | 117 | 0.00 |
| 31 | T | Cyclohexane | 0.526 | 0.473 | 10.1 | 113 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 0.840 | 0.815 | 3.0 | 116 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.410 | 0.433 | -5.6 | 102 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 120 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.275 | 0.291 | -5.8 | 109 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.364 | 0.359 | 1.4 | 115 | 0.00 |
| 37 | T | Ethyl Acetate | 0.120 | 0.112 | 6.7 | 101 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.599 | 0.588 | 1.8 | 115 | 0.00 |
| 39 | T | Methylcyclohexane | 0.466 | 0.474 | -1.7 | 117 | 0.00 |
| 40 | TM | Benzene | 1.054 | 1.080 | -2.5 | 119 | 0.00 |
| 41 | T | Methacrylonitrile | 0.061 | 0.057 | 6.6 | 122 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.338 | 0.329 | 2.7 | 108 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.255 | 0.237 | 7.1 | 98 | 0.00 |
| 44 | TM | Trichloroethene | 0.315 | 0.313 | 0.6 | 116 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.213 | 0.212 | 0.5# | 112 | 0.00 |
| 46 | T | Dibromomethane | 0.148 | 0.138 | 6.8 | 103 | 0.00 |
| 47 | T | Bromodichloromethane | 0.419 | 0.410 | 2.1 | 113 | 0.00 |
| 48 | T | Methyl methacrylate | 0.119 | 0.109 | 8.4 | 100 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.001 | 0.001 | 0.0 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 0.971 | 1.144 | -17.8 | 111 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.123 | 0.113 | 8.1 | 97 | 0.00 |
| 52 | CM | Toluene | 0.723 | 0.744 | -2.9# | 119 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.368 | 0.359 | 2.4 | 106 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.403 | 0.403 | 0.0 | 112 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.188 | 0.182 | 3.2 | 109 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.248 | 0.230 | 7.3 | 99 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.306 | 0.301 | 1.6 | 108 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.086 | 0.085 | 1.2 | 99 | 0.00 |
| 59 | T | 2-Hexanone | 0.081 | 0.074 | 8.6 | 93 | 0.00 |
| 60 | T | Dibromochloromethane | 0.305 | 0.296 | 3.0 | 112 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.177 | 0.172 | 2.8 | 108 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.366 | 0.390 | -6.6 | 109 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 117 | 0.00 |
| 64 | T | Tetrachloroethene | 0.342 | 0.342 | 0.0 | 114 | 0.00 |
| 65 | PM | Chlorobenzene | 0.979 | 0.976 | 0.3 | 114 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.379 | 0.384 | -1.3 | 116 | 0.00 |
| 67 | C | Ethyl Benzene | 1.711 | 1.751 | -2.3# | 116 | 0.00 |
| 68 | T | m/p-Xylenes | 0.653 | 0.673 | -3.1 | 117 | 0.00 |
| 69 | T | o-Xylene | 0.624 | 0.637 | -2.1 | 115 | 0.00 |
| 70 | T | Styrene | 1.047 | 1.062 | -1.4 | 114 | 0.00 |
| 71 | P | Bromoform | 0.218 | 0.213 | 2.3 | 103 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 117 | 0.00 |
| 73 | T | Isopropylbenzene | 3.464 | 3.445 | 0.5 | 116 | 0.00 |
| 74 | T | N-amyl acetate | 0.492 | 0.473 | 3.9 | 101 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.444 | 0.414 | 6.8 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.318 | 0.290 | 8.8 | 112 | 0.00 |
| 77 | T | Bromobenzene | 0.797 | 0.805 | -1.0 | 115 | 0.00 |
| 78 | T | n-propylbenzene | 3.883 | 3.892 | -0.2 | 116 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.213 | 2.198 | 0.7 | 114 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.886 | 2.914 | -1.0 | 115 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.161 | 0.157 | 2.5 | 104 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.287 | 2.295 | -0.3 | 114 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.695 | 2.672 | 0.9 | 114 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.809 | 2.884 | -2.7 | 116 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.633 | 3.674 | -1.1 | 117 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.237 | 3.273 | -1.1 | 116 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.559 | 1.548 | 0.7 | 114 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.550 | 1.529 | 1.4 | 113 | 0.00 |
| 89 | T | n-Butylbenzene | 2.702 | 2.761 | -2.2 | 117 | 0.00 |
| 90 | T | Hexachloroethane | 0.616 | 0.611 | 0.8 | 116 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.336 | 1.352 | -1.2 | 112 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.086 | 0.080 | 7.0 | 95 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.849 | 0.887 | -4.5 | 115 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.619 | 0.629 | -1.6 | 118 | 0.00 |
| 95 | T | Naphthalene | 1.360 | 1.350 | 0.7 | 103 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.707 | 0.730 | -3.3 | 110 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 122 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 47.479 | 5.0 | 113 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 55.003 | -10.0 | 126 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 49.638 | 0.7# | 114 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 51.036 | -2.1 | 121 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 51.394 | -2.8 | 121 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 48.899 | 2.2 | 117 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 50.215 | -0.4 | 115 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 48.370 | 3.3 | 116 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.123 | -2.2 | 115 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 208.224 | 16.7 | 94 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 49.566 | 0.9# | 117 | 0.00 |
| 13 | T | Acrolein | 250.000 | 143.918 | 42.4# | 95 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 51.064 | -2.1 | 120 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 226.940 | 9.2 | 100 | 0.00 |
| 16 | T | Acetone | 250.000 | 207.840 | 16.9 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 52.554 | -5.1 | 119 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 48.572 | 2.9 | 105 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 47.911 | 4.2 | 110 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 50.306 | -0.6 | 121 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.999 | -2.0 | 117 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.460 | -0.9 | 117 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 242.987 | 2.8 | 107 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.544 | -1.1 | 121 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 225.260 | 9.9 | 97 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 47.328 | 5.3 | 115 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 49.666 | 0.7 | 116 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 54.165 | -8.3 | 111 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 224.521 | 10.2 | 97 | 0.00 |
| 30 | C | Chloroform | 50.000 | 48.353 | 3.3# | 117 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 44.979 | 10.0 | 113 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.484 | 3.0 | 116 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 52.910 | -5.8 | 102 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 120 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 52.779 | -5.6 | 109 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.340 | 1.3 | 115 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 46.791 | 6.4 | 101 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 49.087 | 1.8 | 115 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 50.860 | -1.7 | 117 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.214 | -2.4 | 119 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 46.896 | 6.2 | 122 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.661 | 2.7 | 108 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 46.479 | 7.0 | 98 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.703 | 0.6 | 116 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 49.593 | 0.8# | 112 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 46.666 | 6.7 | 103 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 48.995 | 2.0 | 113 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 45.829 | 8.3 | 100 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 998.617 | 0.1 | 100 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 52.171 | -4.3 | 111 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 230.147 | 7.9 | 97 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.455 | -2.9# | 119 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 48.805 | 2.4 | 106 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 49.949 | 0.1 | 112 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.206 | 3.6 | 109 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 46.506 | 7.0 | 99 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.234 | 1.5 | 108 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 244.679 | 2.1 | 99 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 229.110 | 8.4 | 93 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 48.574 | 2.9 | 112 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 48.387 | 3.2 | 108 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 53.215 | -6.4 | 109 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 117 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 50.131 | -0.3 | 114 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.866 | 0.3 | 114 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 50.630 | -1.3 | 116 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.151 | -2.3# | 116 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 103.152 | -3.2 | 117 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 51.032 | -2.1 | 115 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.717 | -1.4 | 114 | 0.00 |
| 71 | P | Bromoform | 50.000 | 48.733 | 2.5 | 103 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 117 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.720 | 0.6 | 116 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 48.015 | 4.0 | 101 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 46.657 | 6.7 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 45.549 | 8.9 | 112 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 50.459 | -0.9 | 115 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.119 | -0.2 | 116 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.656 | 0.7 | 114 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 50.488 | -1.0 | 115 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 48.646 | 2.7 | 104 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.168 | -0.3 | 114 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.565 | 0.9 | 114 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 51.350 | -2.7 | 116 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 50.578 | -1.2 | 117 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.557 | -1.1 | 116 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 49.657 | 0.7 | 114 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 49.305 | 1.4 | 113 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.082 | -2.2 | 117 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 49.619 | 0.8 | 116 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 50.573 | -1.1 | 112 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 46.197 | 7.6 | 95 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.197 | -4.4 | 115 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 50.811 | -1.6 | 118 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 49.600 | 0.8 | 103 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 51.643 | -3.3 | 110 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date/Time: 12/20/2024 09:09

Lab File ID: VY020664.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Vinyl Chloride | 0.431 | 0.372 | | -13.69 | 20 |
| 1,1-Dichloroethene | 0.627 | 0.646 | | 3.03 | 20 |
| Acetone | 0.125 | 0.112 | | -10.4 | 20 |
| Methyl tert-butyl Ether | 1.618 | 1.677 | | 3.65 | 20 |
| Methylene Chloride | 0.681 | 0.700 | | 2.79 | 20 |
| trans-1,2-Dichloroethene | 0.703 | 0.742 | | 5.55 | 20 |
| 1,1-Dichloroethane | 1.306 | 1.384 | 0.1 | 5.97 | 20 |
| 2-Butanone | 0.204 | 0.195 | | -4.41 | 20 |
| Carbon Tetrachloride | 0.711 | 0.793 | | 11.53 | 20 |
| cis-1,2-Dichloroethene | 0.809 | 0.845 | | 4.45 | 20 |
| Chloroform | 1.528 | 1.402 | | -8.25 | 20 |
| 1,1,1-Trichloroethane | 1.200 | 1.268 | | 5.67 | 20 |
| Benzene | 1.883 | 2.064 | | 9.61 | 20 |
| 1,2-Dichloroethane | 0.500 | 0.539 | | 7.8 | 20 |
| Trichloroethene | 0.463 | 0.499 | | 7.78 | 20 |
| Toluene | 1.170 | 1.291 | | 10.34 | 20 |
| Tetrachloroethene | 0.470 | 0.508 | | 8.09 | 20 |
| Chlorobenzene | 1.398 | 1.523 | 0.3 | 8.94 | 20 |
| Ethyl Benzene | 2.579 | 2.864 | | 11.05 | 20 |
| m/p-Xylenes | 0.959 | 1.049 | | 9.39 | 20 |
| o-Xylene | 0.895 | 0.981 | | 9.61 | 20 |
| n-propylbenzene | 5.257 | 5.794 | | 10.22 | 20 |
| tert-Butylbenzene | 3.206 | 3.568 | | 11.29 | 20 |
| 1,2,4-Trimethylbenzene | 3.473 | 3.805 | | 9.56 | 20 |
| sec-Butylbenzene | 4.662 | 5.155 | | 10.57 | 20 |
| 1,3-Dichlorobenzene | 1.876 | 2.012 | | 7.25 | 20 |
| 1,4-Dichlorobenzene | 1.858 | 1.956 | | 5.27 | 20 |
| n-Butylbenzene | 3.643 | 4.041 | | 10.93 | 20 |
| 1,2-Dichlorobenzene | 1.626 | 1.718 | | 5.66 | 20 |
| 1,2-Dichloroethane-d4 | 0.548 | 0.442 | | -19.34 | 20 |
| Dibromofluoromethane | 0.352 | 0.306 | | -13.07 | 20 |
| Toluene-d8 | 1.233 | 1.077 | | -12.65 | 20 |
| 4-Bromofluorobenzene | 0.482 | 0.406 | | -15.77 | 20 |
| 1,4-Dioxane | 2.668 | 2.620 | 0.05 | -1.8 | 50 |

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_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 162547 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 240673 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 212145 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 119359 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 71807 | 40.336 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 80.680% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 73716 | 43.459 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 86.920% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 259216 | 43.661 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 87.320% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 97623 | 42.036 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 84.080% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 101237 | 49.863 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 65890 | 43.800 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 60443 | 43.169 | ug/l | 100 |
| 5) Bromomethane | 2.605 | 94 | 35571 | 39.522 | ug/l | 96 |
| 6) Chloroethane | 2.739 | 64 | 34884 | 40.318 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 142498 | 48.639 | ug/l | 97 |
| 8) Diethyl Ether | 3.464 | 74 | 46033 | 44.802 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 110942 | 52.831 | ug/l | 99 |
| 10) Methyl Iodide | 4.013 | 142 | 131655 | 56.311 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 40751 | 212.136 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 104993 | 51.529 | ug/l | 97 |
| 13) Acrolein | 3.659 | 56 | 10168 | 120.792 | ug/l | 96 |
| 14) Allyl chloride | 4.391 | 41 | 192684 | 53.969 | ug/l | 99 |
| 15) Acrylonitrile | 5.068 | 53 | 125271 | 254.850 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 90623 | 256.402 | ug/l | 96 |
| 17) Carbon Disulfide | 4.116 | 76 | 360666 | 54.380 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 65339 | 53.944 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 272592 | 51.833 | ug/l | 100 |
| 20) Methylene Chloride | 4.622 | 84 | 113838 | 51.431 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 120568 | 52.751 | ug/l | 99 |
| 22) Diisopropyl ether | 6.025 | 45 | 385510 | 53.195 | ug/l | 97 |
| 23) Vinyl Acetate | 5.964 | 43 | 1068233 | 260.253 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 224983 | 52.991 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 158594 | 239.715 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 201830 | 50.287 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 137382 | 52.244 | ug/l | 99 |
| 28) Bromochloromethane | 7.250 | 49 | 72076 | 50.330 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.268 | 42 | 104646 | 250.559 | ug/l | 100 |
| 30) Chloroform | 7.427 | 83 | 227859 | 53.857 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 199490 | 49.141 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 206129 | 52.846 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 169048 | 54.656 | ug/l | 100 |
| 37) Ethyl Acetate | 6.988 | 43 | 73443 | 50.481 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 190940 | 55.798 | ug/l | 99 |
| 39) Methylcyclohexane | 9.116 | 83 | 216273 | 53.650 | ug/l | 97 |
| 40) Benzene | 8.085 | 78 | 496803 | 54.799 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 39064 | 50.789 | ug/l | | 93 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 129790 | 53.978 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 146927 | 53.344 | ug/l | # | 89 |
| 44) Trichloroethene | 8.866 | 130 | 120106 | 53.915 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 114657 | 54.113 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 60564 | 54.086 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.427 | 83 | 165285 | 54.644 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.225 | 41 | 69098 | 52.772 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 12610 | 981.949 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 372513 | 256.228 | ug/l | | 100 |
| 52) Toluene | 10.176 | 92 | 310772 | 55.159 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 153061 | 54.306 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 185052 | 55.407 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 80376 | 54.290 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.439 | 69 | 116828 | 54.394 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 143193 | 54.257 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 242438 | 268.265 | ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 246134 | 263.689 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 109346 | 55.226 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 73670 | 53.496 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 107671 | 53.958 | ug/l | | 97 |
| 65) Chlorobenzene | 11.444 | 112 | 323124 | 54.474 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 114100 | 56.252 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 607565 | 55.519 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.633 | 106 | 444911 | 109.344 | ug/l | | 99 |
| 69) o-Xylene | 11.957 | 106 | 208015 | 54.792 | ug/l | | 97 |
| 70) Styrene | 11.975 | 104 | 349665 | 55.127 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 63758 | 55.908 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 571028 | 54.823 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 126874 | 52.048 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 90544 | 53.553 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 62731m | 50.593 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 121520 | 53.559 | ug/l | | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 691545 | 55.107 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 382585 | 54.188 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 460381 | 54.473 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 32476 | 54.979 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 394546 | 53.864 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 425908 | 55.644 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 454208 | 54.789 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 615306 | 55.289 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 507405 | 55.299 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 240167 | 53.623 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 233518 | 52.643 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 482377 | 55.471 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 99835 | 54.904 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 205065 | 52.844 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 13979 | 50.926 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 121126 | 51.603 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 83298 | 54.285 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 204937 | 50.926 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 100879 | 50.866 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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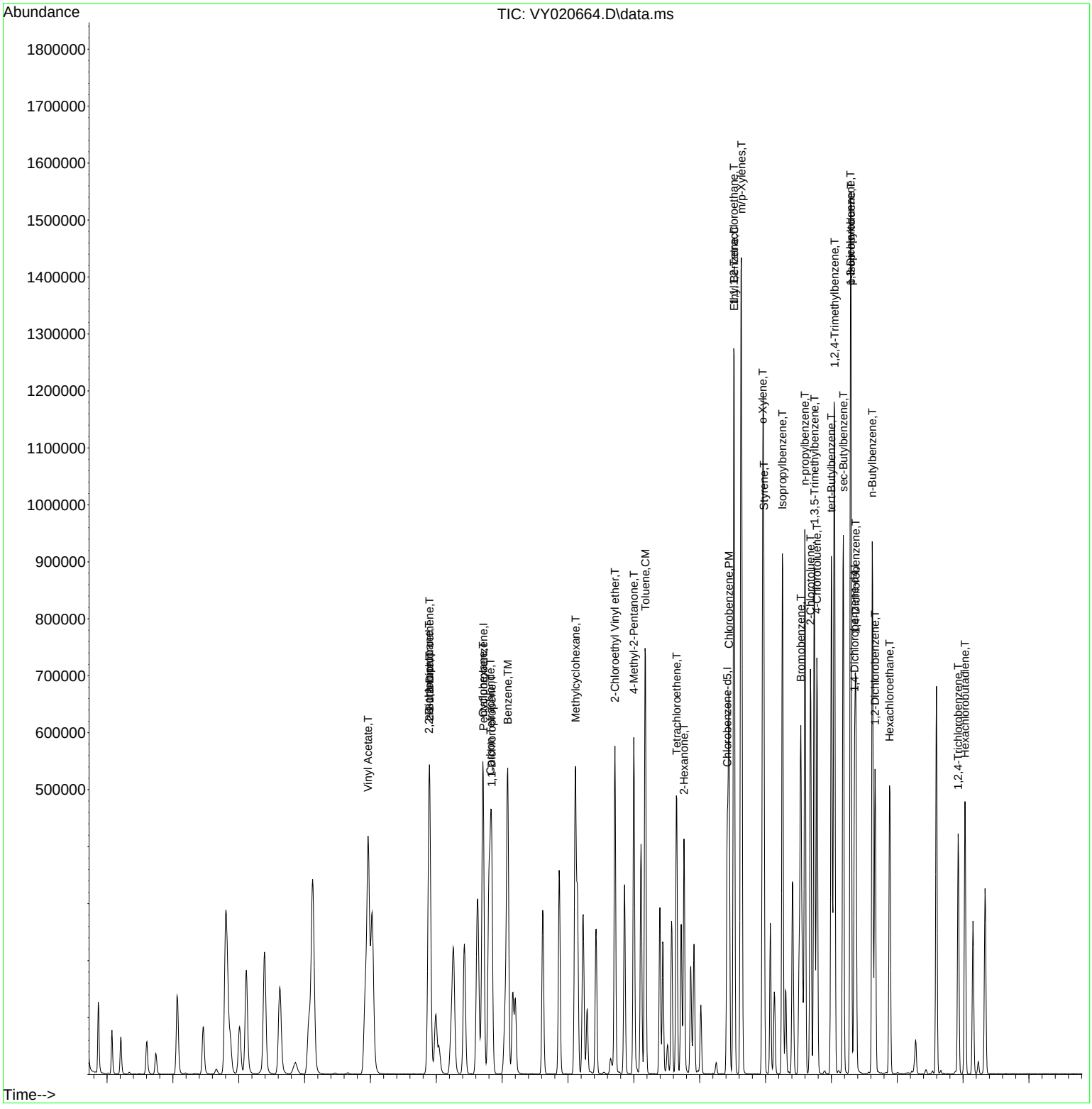
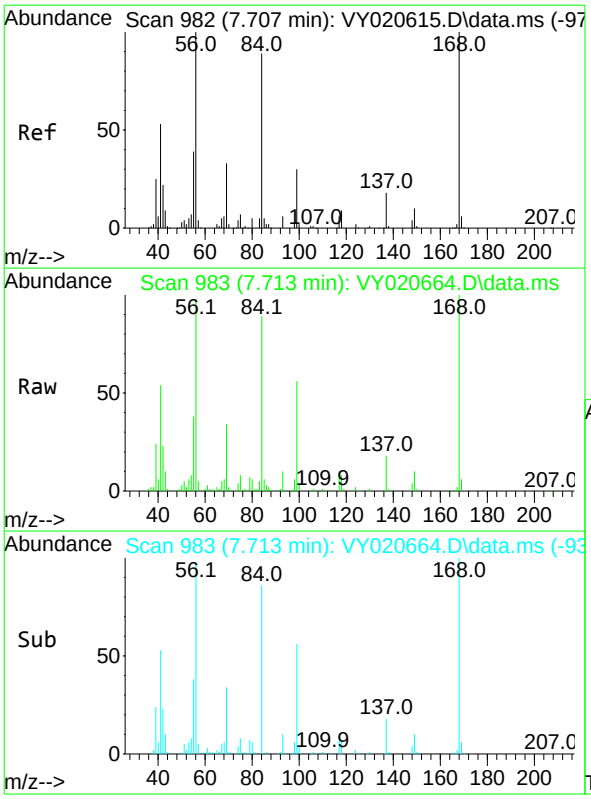
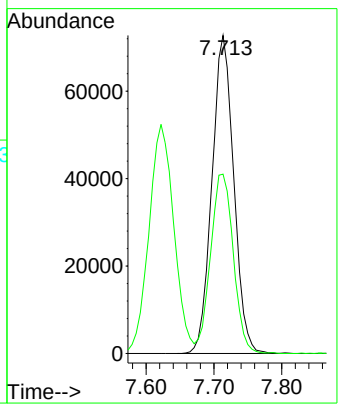





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:168 Resp: 162547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.3 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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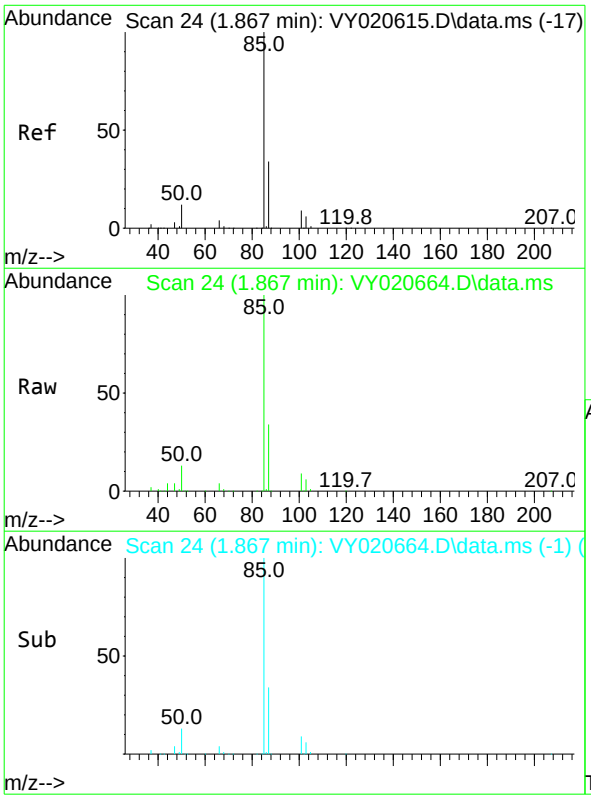
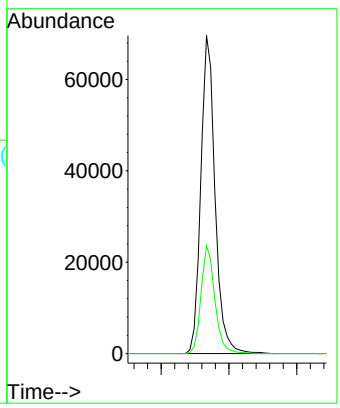
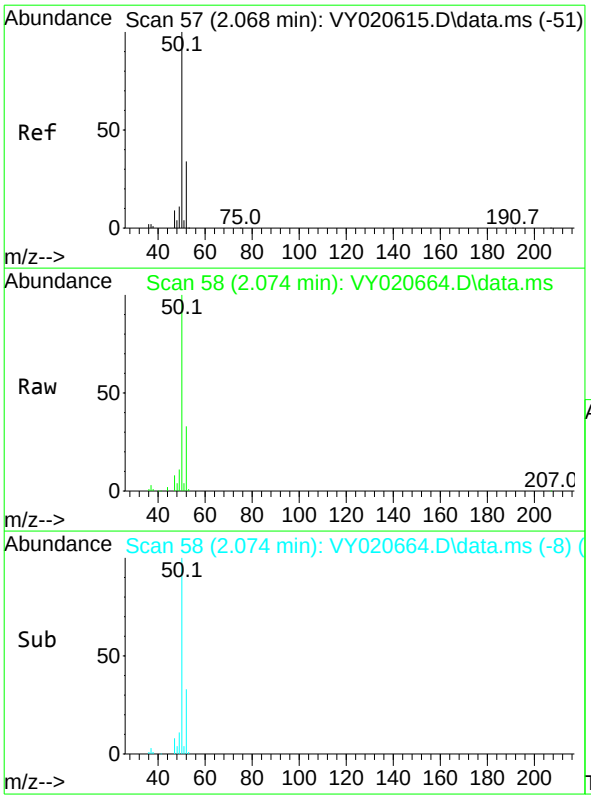



#2
Dichlorodifluoromethane
Concen: 49.863 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 85 Resp: 101237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.9 | 16.8 | 50.3 |

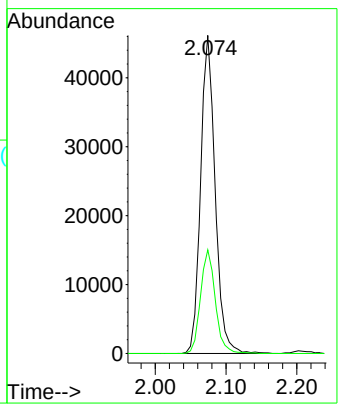





#3
Chloromethane
Concen: 43.800 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 50 Resp: 65890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.6 | 26.8 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
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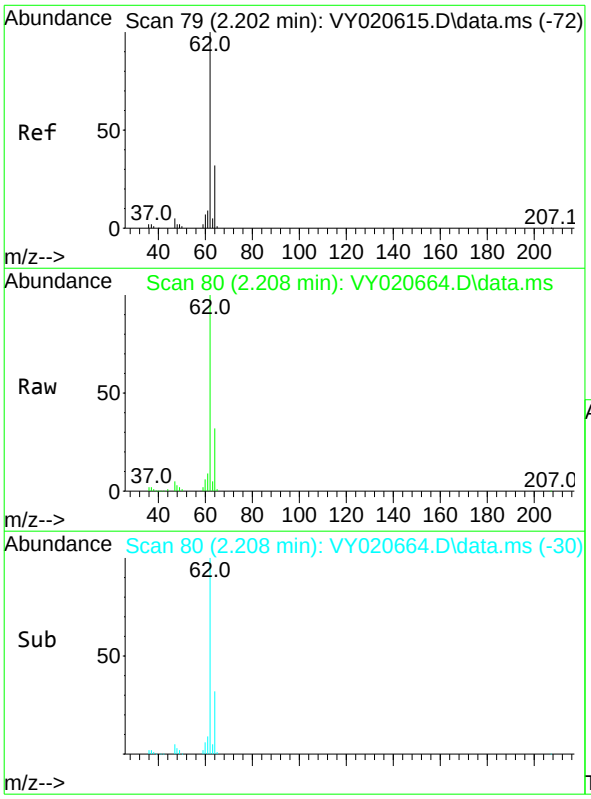
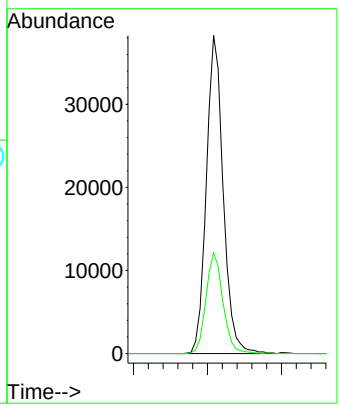
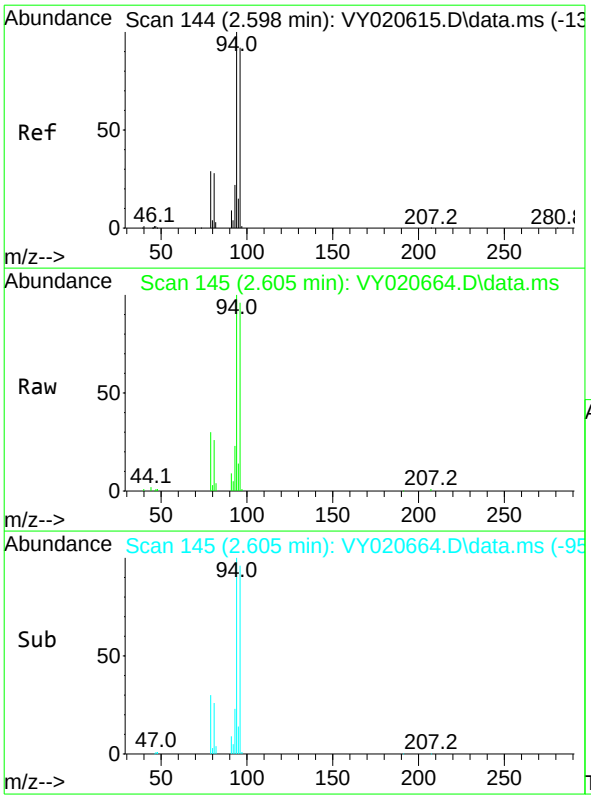



#4
Vinyl Chloride
Concen: 43.169 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 62 Resp: 60443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.3 | 37.9 |

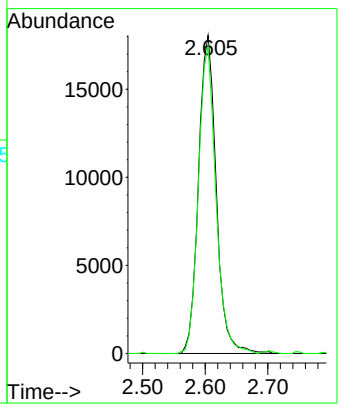





#5
Bromomethane
Concen: 39.522 ug/l
RT: 2.605 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 94 Resp: 35571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.4 | 73.8 | 110.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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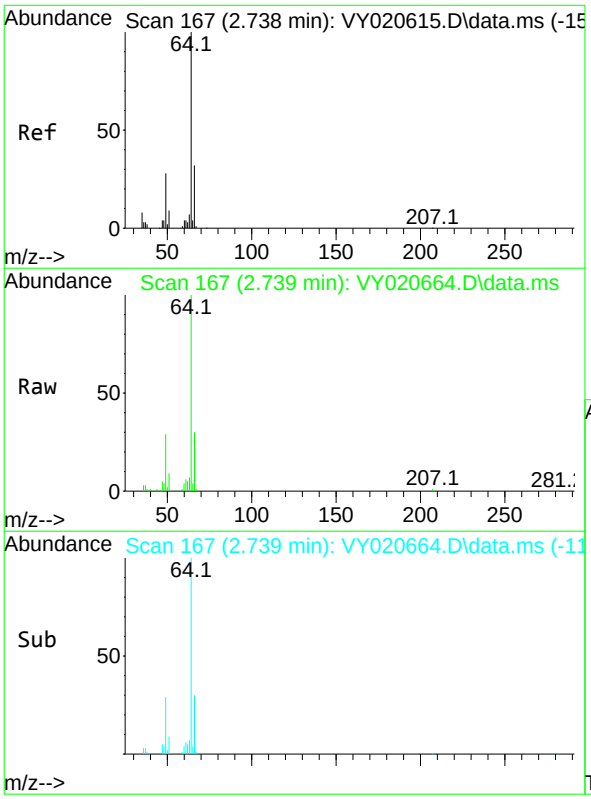
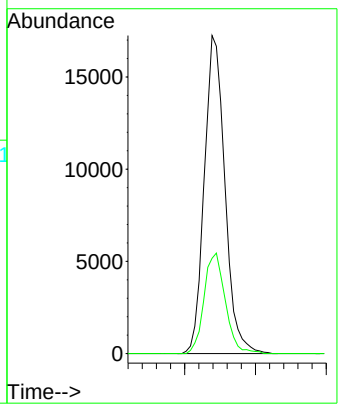
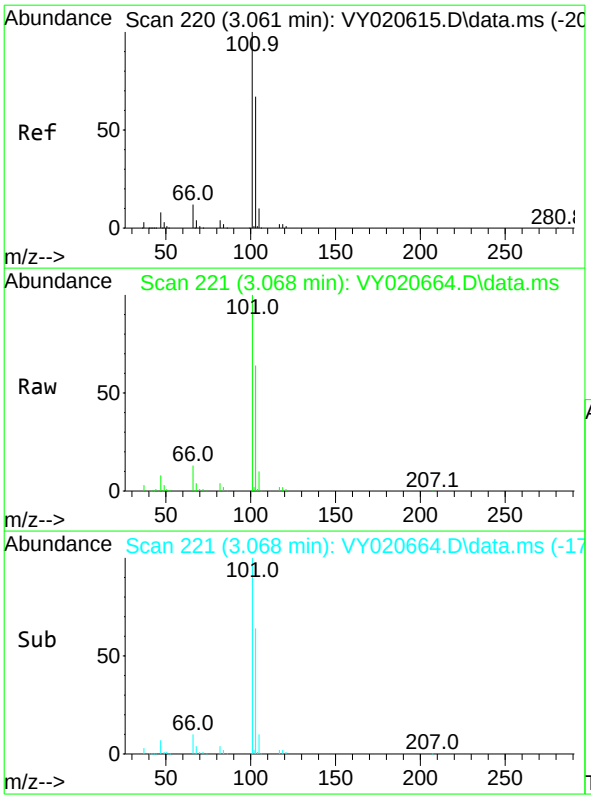



#6
Chloroethane
Concen: 40.318 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 64 Resp: 34884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.0 | 25.8 | 38.6 |

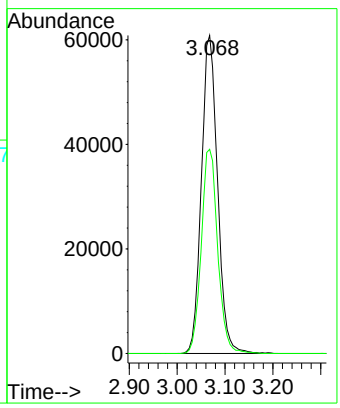





#7
Trichlorofluoromethane
Concen: 48.639 ug/l
RT: 3.068 min Scan# 22
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:101 Resp: 142498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.2 | 53.4 | 80.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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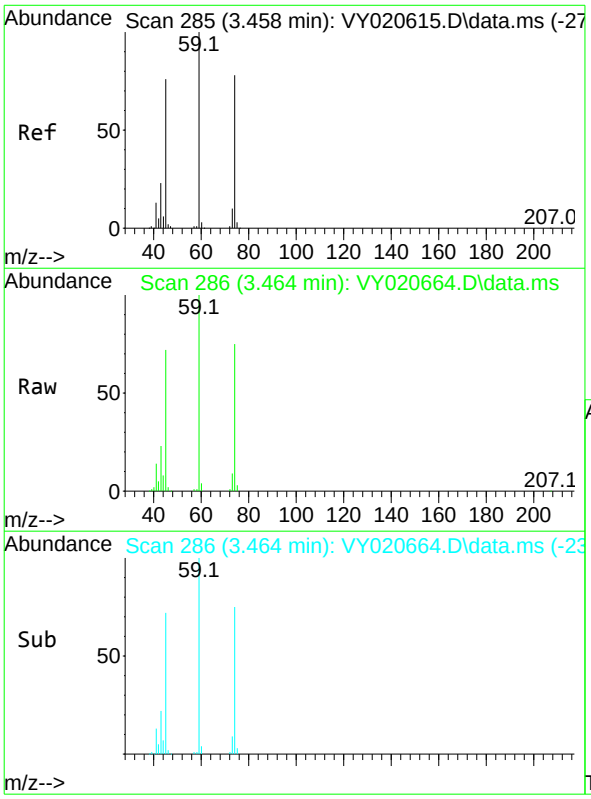
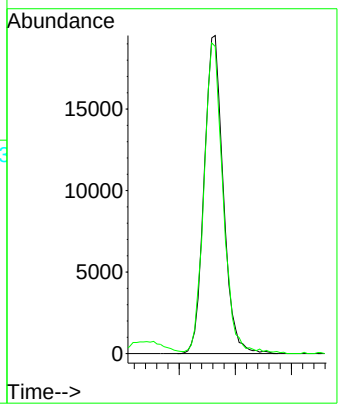
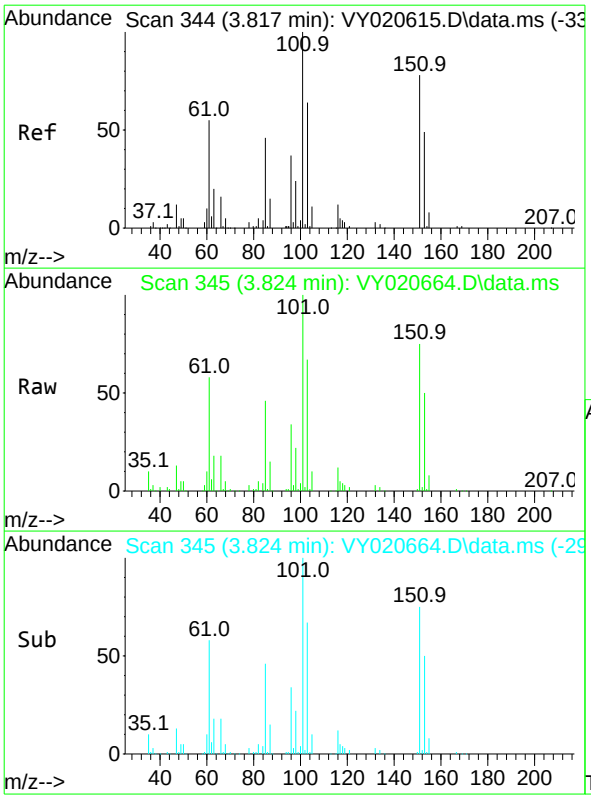



#8
Diethyl Ether
Concen: 44.802 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 74 Resp: 46033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.1 | 49.0 | 147.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.831 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:101 Resp: 110942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.5 | 36.6 | 54.8 |
| 151 | 77.1 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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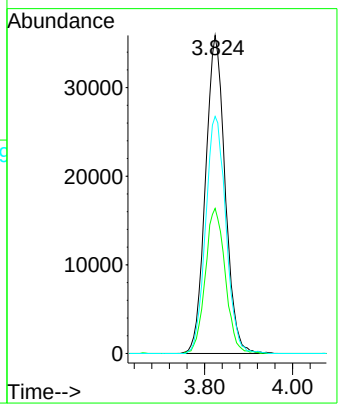
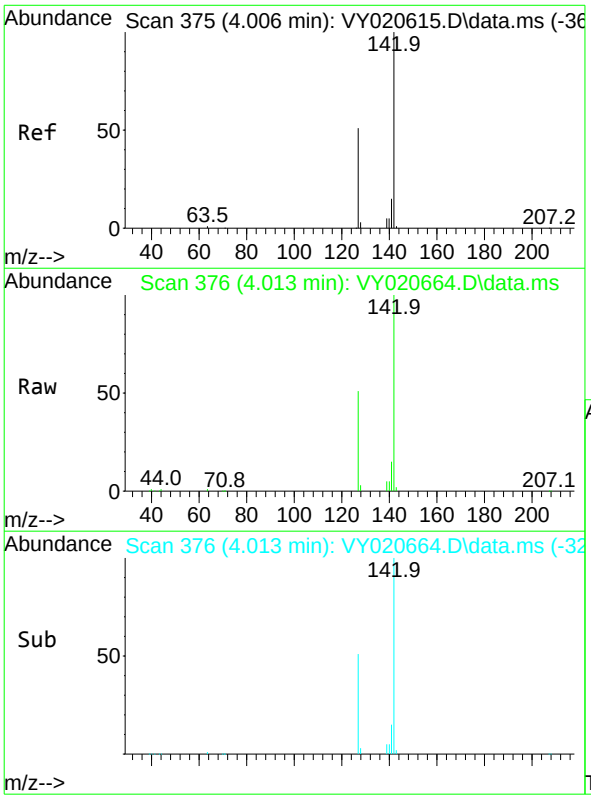
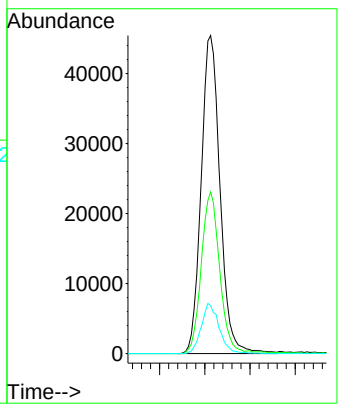


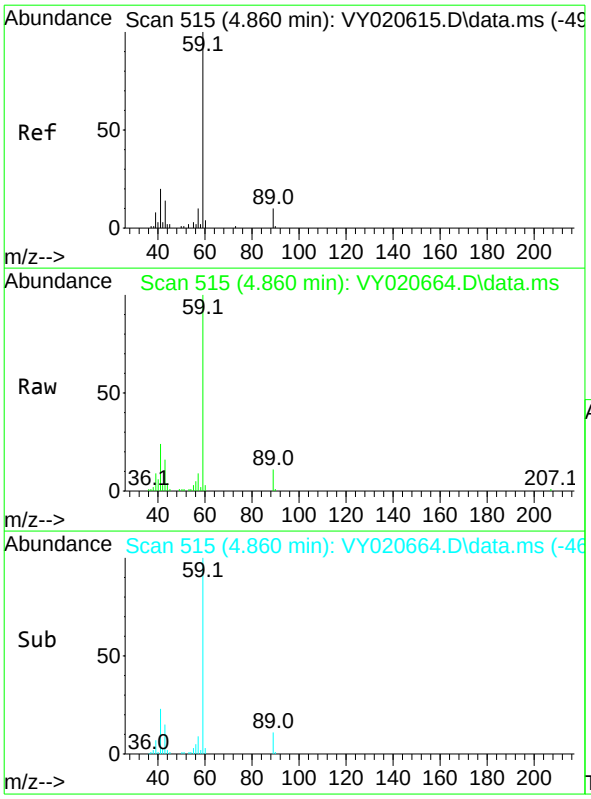




#10
Methyl Iodide
Concen: 56.311 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.007 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:142 Resp: 131655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 49.9 | 40.6 | 61.0 |
| 141 | 15.0 | 11.7 | 17.5 |

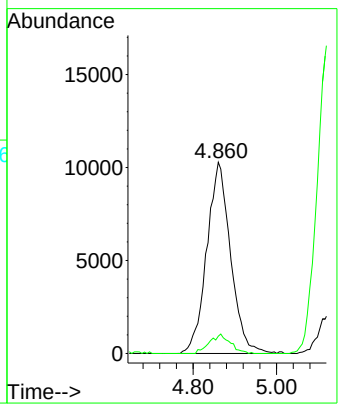





#11
Tert butyl alcohol
Concen: 212.136 ug/l
RT: 4.860 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 59 Resp: 40751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.9 | 7.4 | 11.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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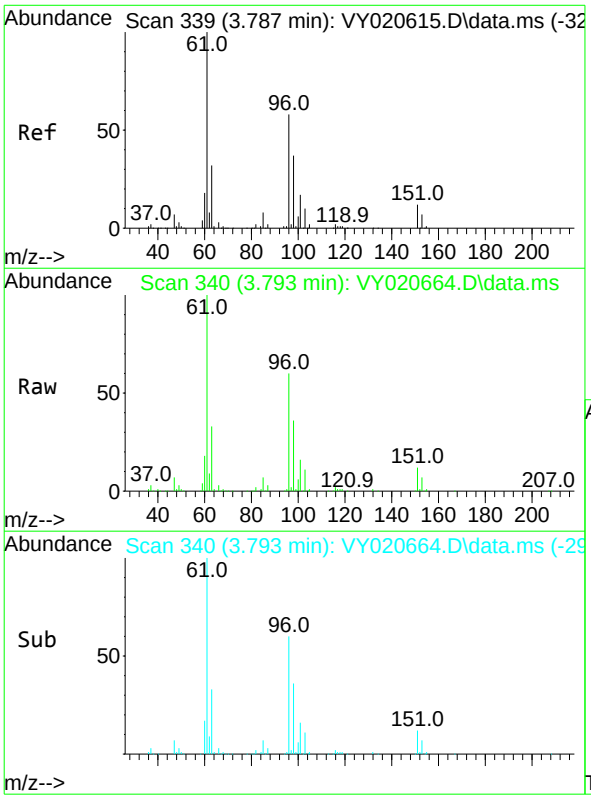
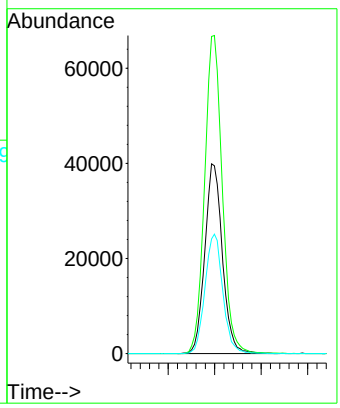
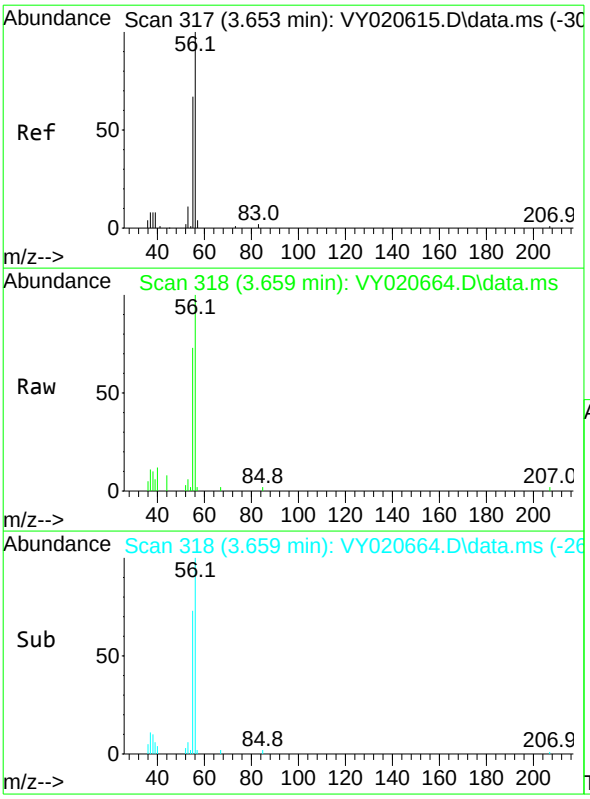



#12
1,1-Dichloroethene
Concen: 51.529 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 96 Resp: 104993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.1 | 136.9 | 205.3 |
| 98 | 60.4 | 50.2 | 75.4 |

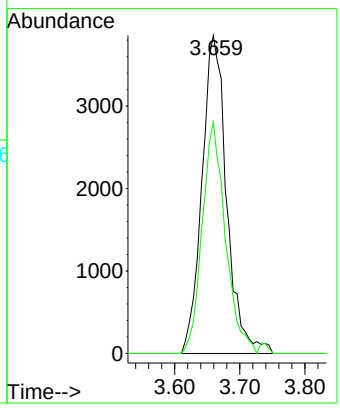





#13
Acrolein
Concen: 120.792 ug/l
RT: 3.659 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 56 Resp: 10168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.3 | 57.5 | 86.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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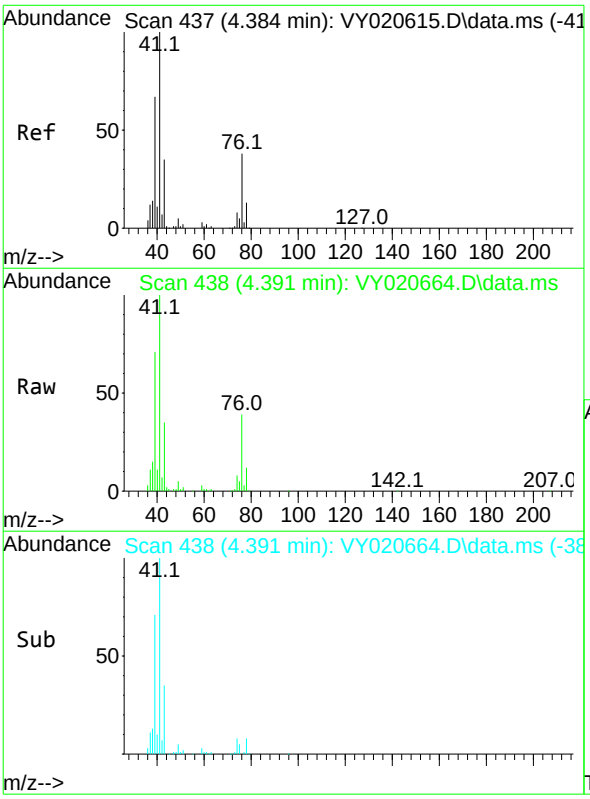
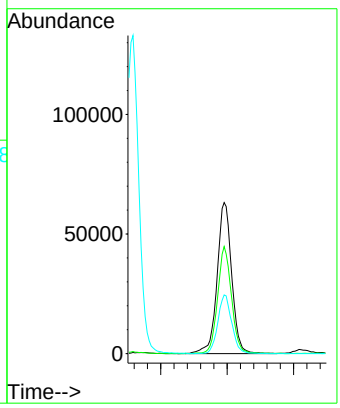
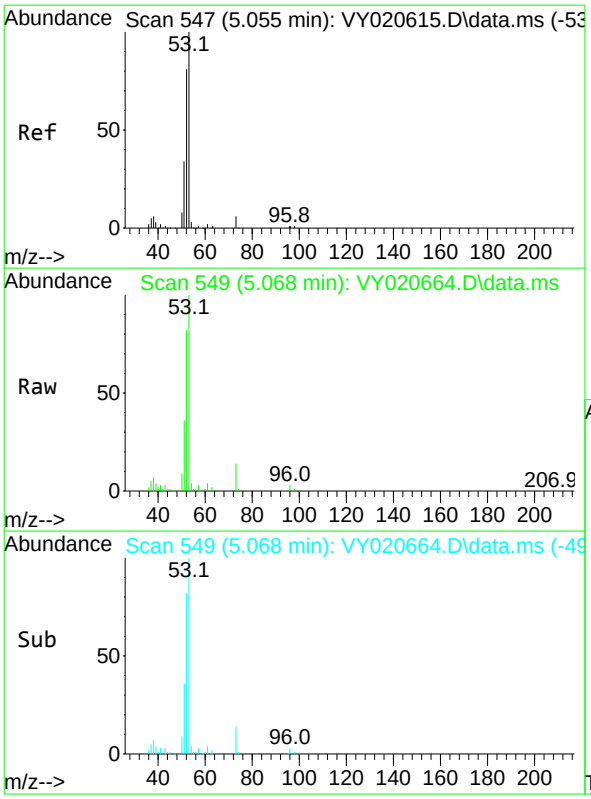



#14
Allyl chloride
Concen: 53.969 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 41 Resp: 192684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.0 | 53.0 | 79.4 |
| 76 | 36.8 | 29.5 | 44.3 |

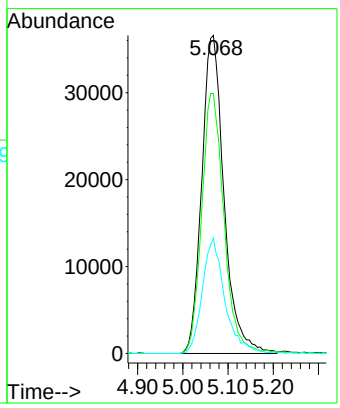





#15
Acrylonitrile
Concen: 254.850 ug/l
RT: 5.068 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 53 Resp: 125271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.2 | 64.5 | 96.7 |
| 51 | 36.5 | 29.4 | 44.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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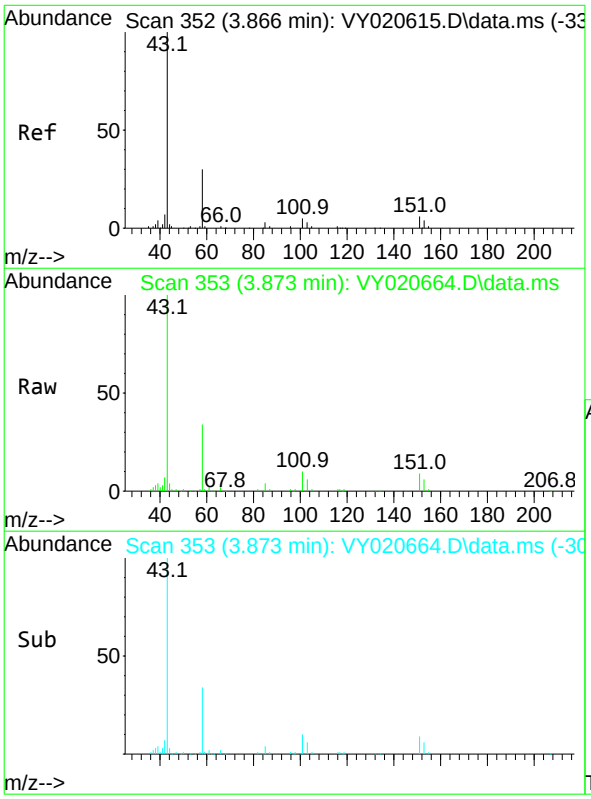
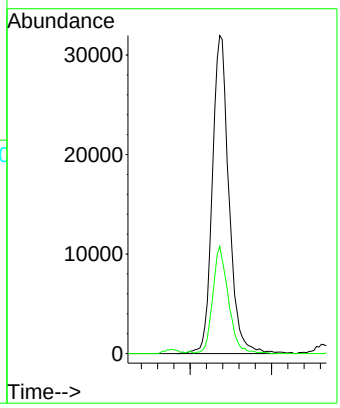
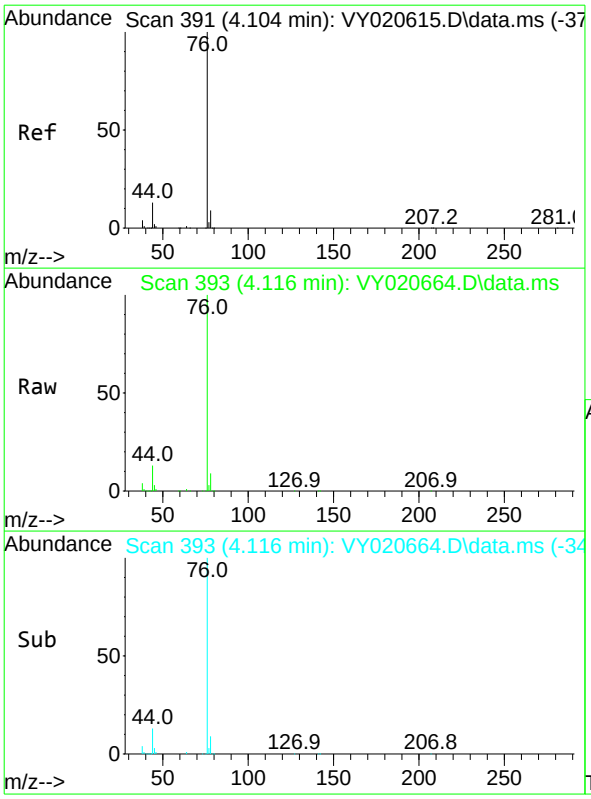



#16
Acetone
Concen: 256.402 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.007 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 90623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.7 | 25.0 | 37.6 |

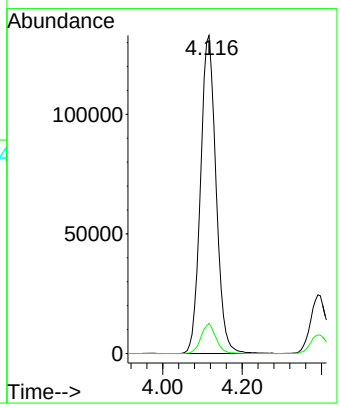





#17
Carbon Disulfide
Concen: 54.380 ug/l
RT: 4.116 min Scan# 39
Delta R.T. 0.013 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 76 Resp: 360666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.5 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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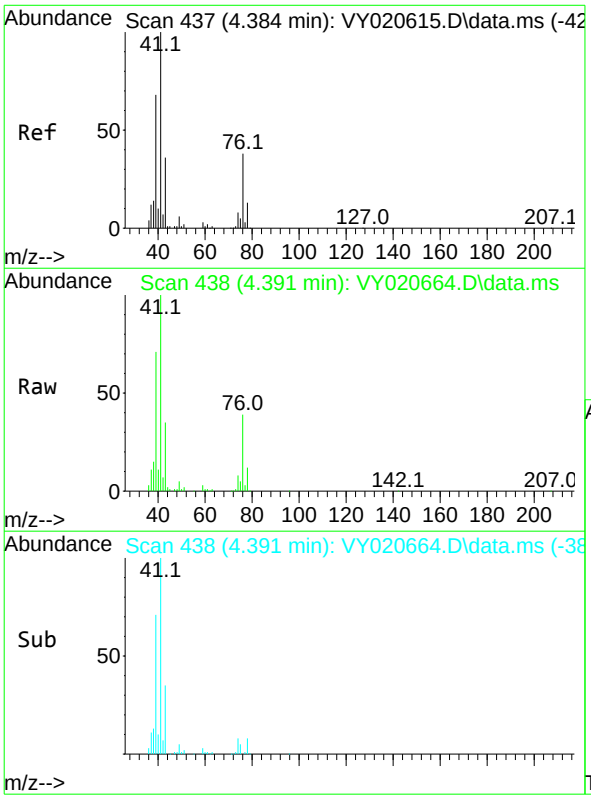
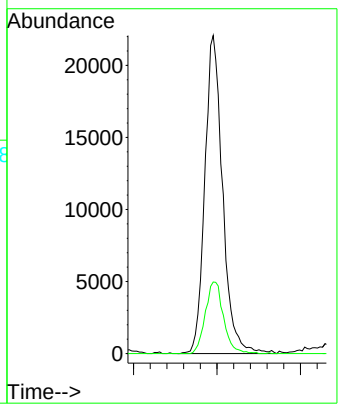
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

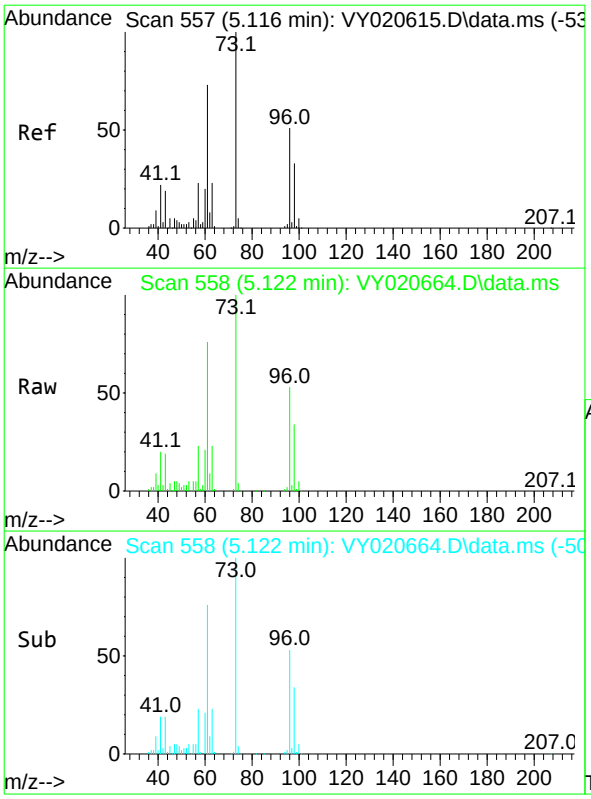



#18
Methyl Acetate
Concen: 53.944 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 65339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.1 | 19.2 | 28.8 |

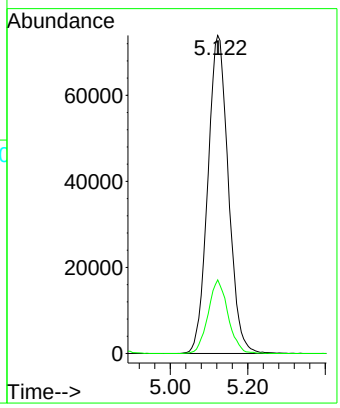





#19
Methyl tert-butyl Ether
Concen: 51.833 ug/l
RT: 5.122 min Scan# 55
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 73 Resp: 272592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.1 | 18.5 | 27.7 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations APPROVED**

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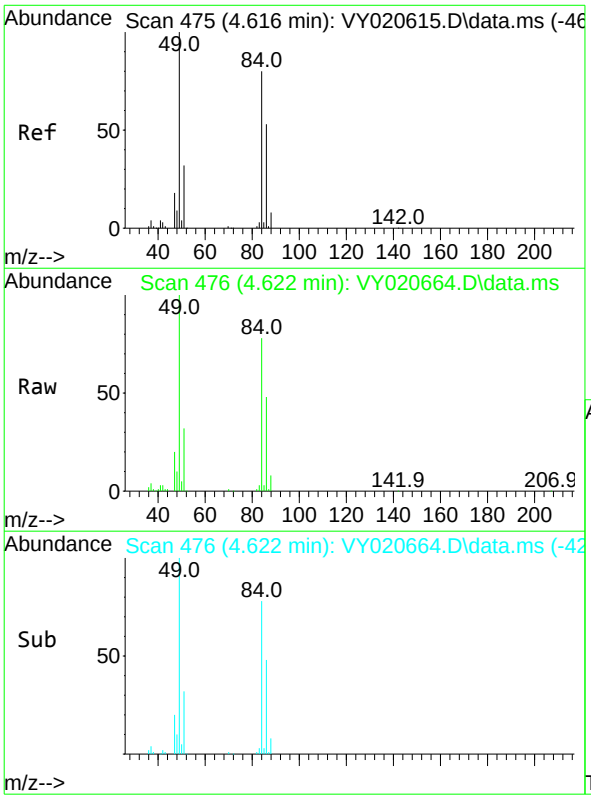
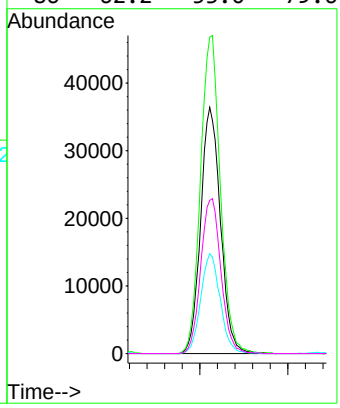
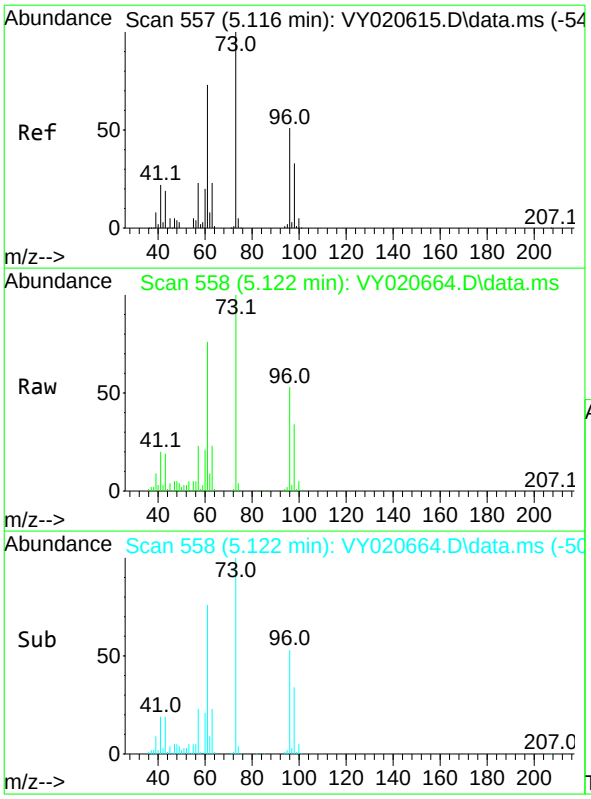



#20
Methylene Chloride
Concen: 51.431 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 84 Resp: 113838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 128.6 | 100.7 | 151.1 |
| 51 | 40.6 | 32.2 | 48.2 |
| 86 | 62.2 | 53.0 | 79.6 |

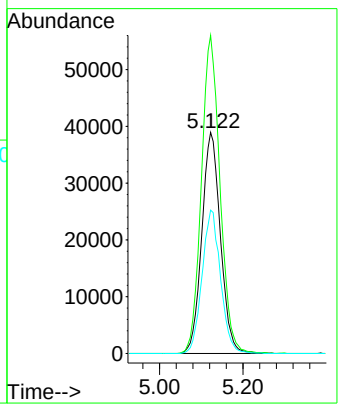





#21
trans-1,2-Dichloroethene
Concen: 52.751 ug/l
RT: 5.122 min Scan# 55
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 96 Resp: 120568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.9 | 113.7 | 170.5 |
| 98 | 64.8 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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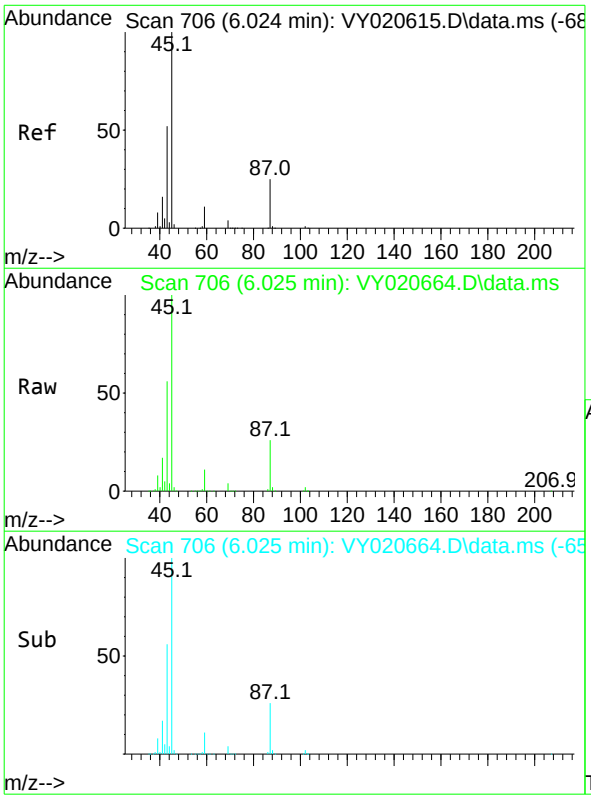
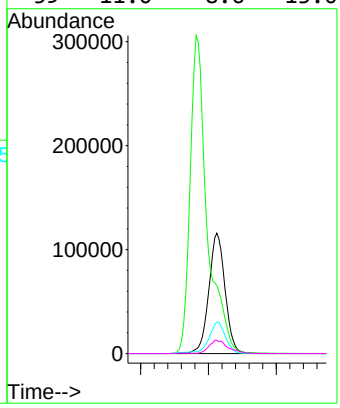
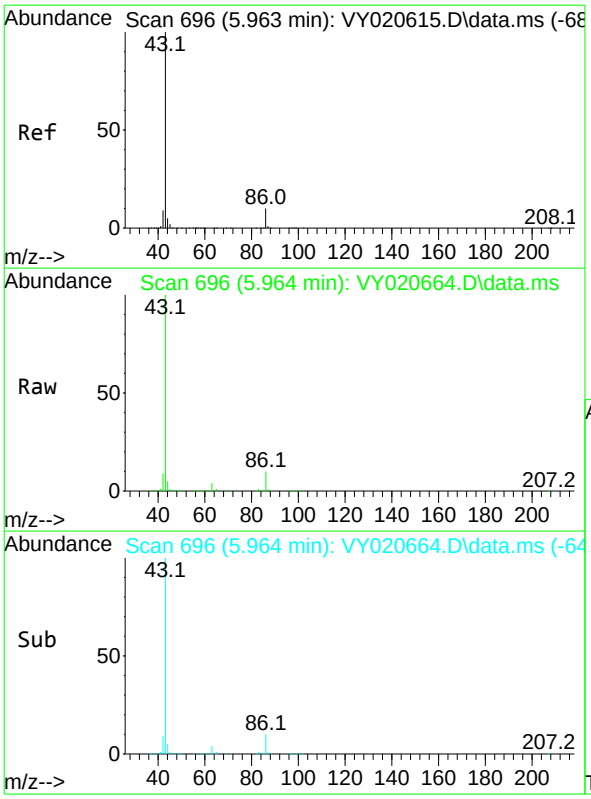



#22
Diisopropyl ether
Concen: 53.195 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 45 Resp: 385510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.1 | 42.6 | 64.0 |
| 87 | 26.0 | 20.6 | 31.0 |
| 59 | 11.0 | 8.6 | 13.0 |

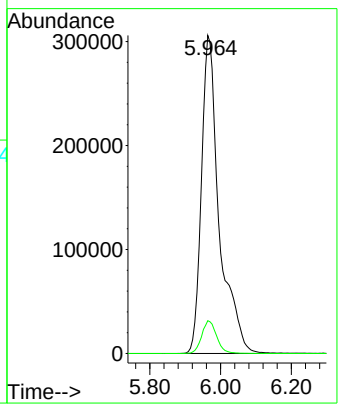





#23
Vinyl Acetate
Concen: 260.253 ug/l
RT: 5.964 min Scan# 69
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 1068233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.3 | 8.1 | 12.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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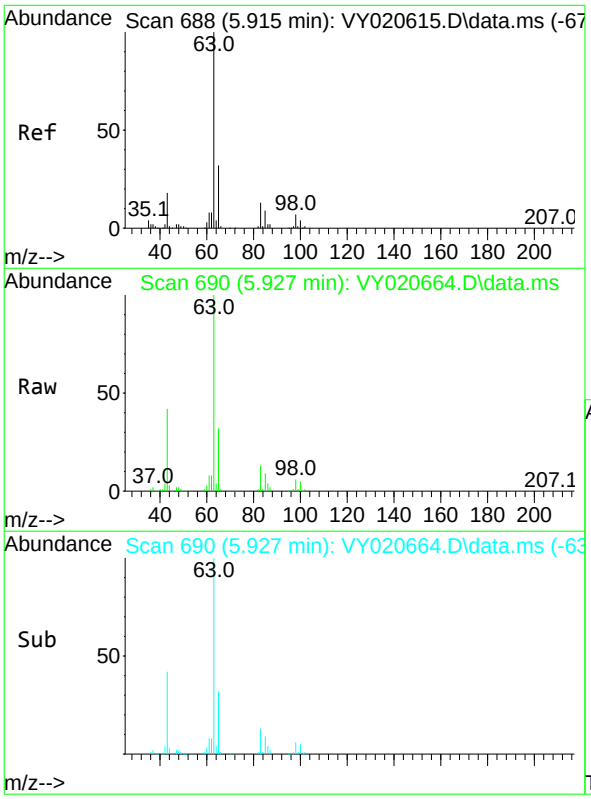
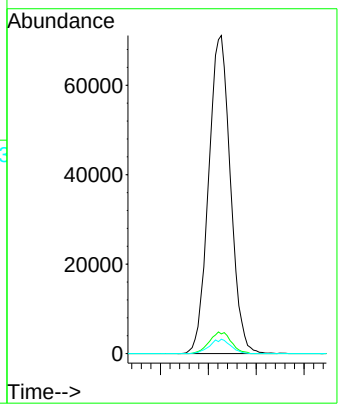
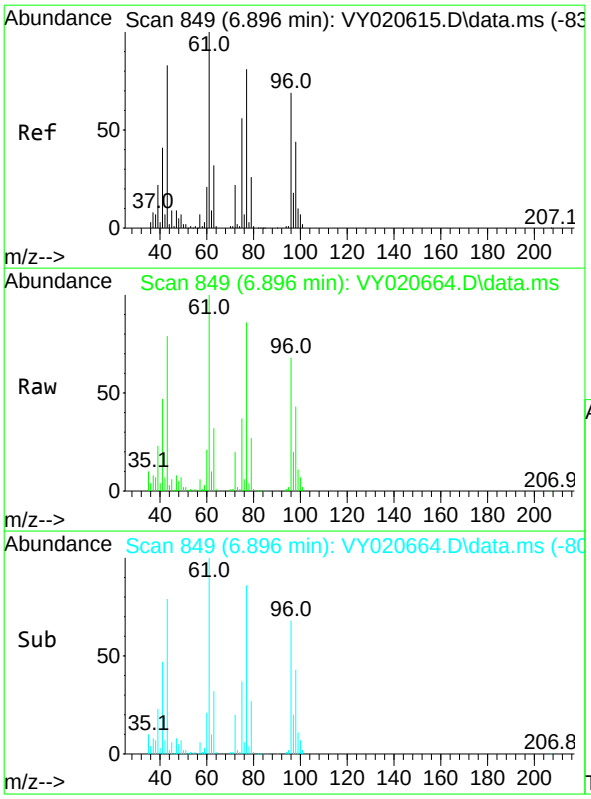



#24
1,1-Dichloroethane
Concen: 52.991 ug/l
RT: 5.927 min Scan# 690
Delta R.T. 0.013 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 63 Resp: 224983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.2 | 3.4 | 10.1 |
| 100 | 4.5 | 2.1 | 6.5 |

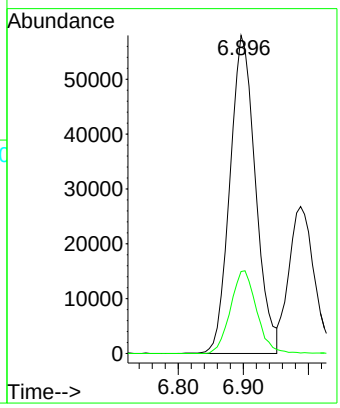





#25
2-Butanone
Concen: 239.715 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 158594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.8 | 20.6 | 31.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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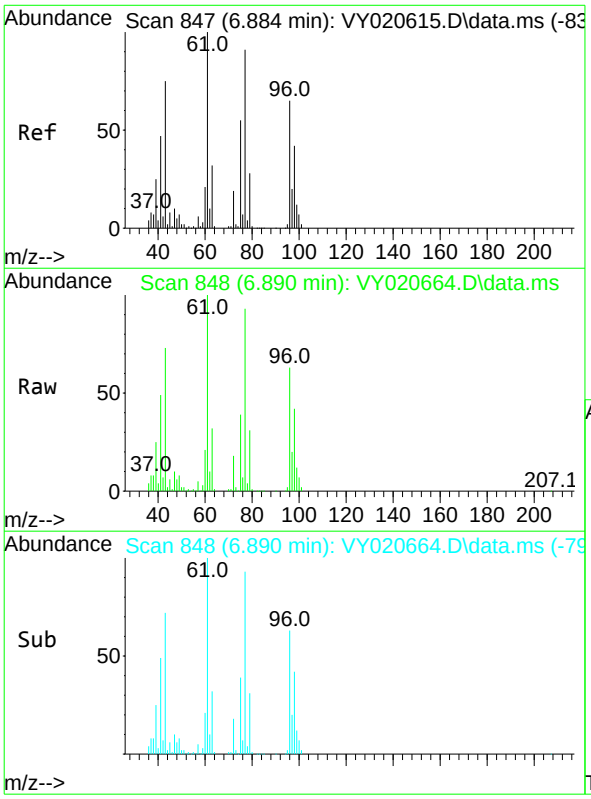
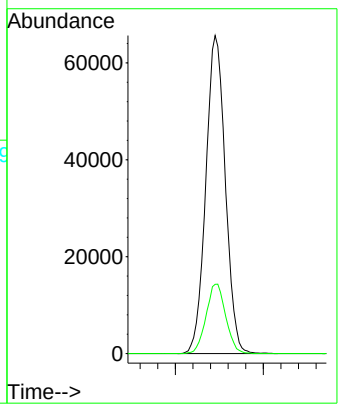
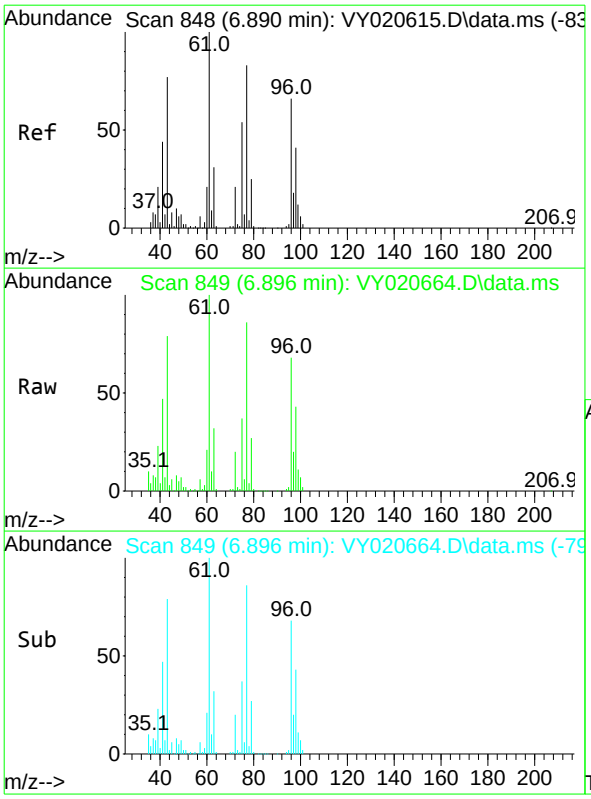



#26
2,2-Dichloropropane
Concen: 50.287 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 77 Resp: 201830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |

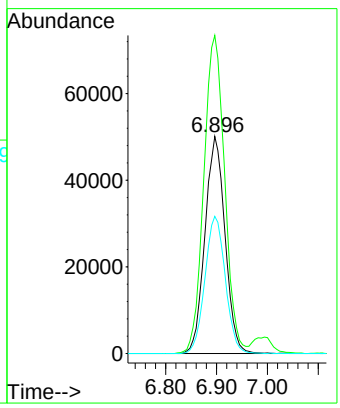





#27
cis-1,2-Dichloroethene
Concen: 52.244 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 96 Resp: 137382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.8 | 0.0 | 306.2 |
| 98 | 64.2 | 0.0 | 127.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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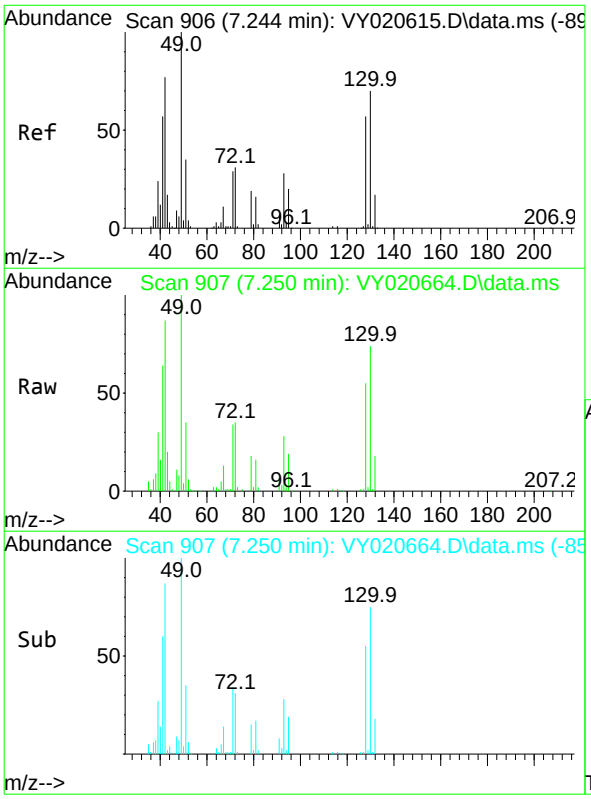
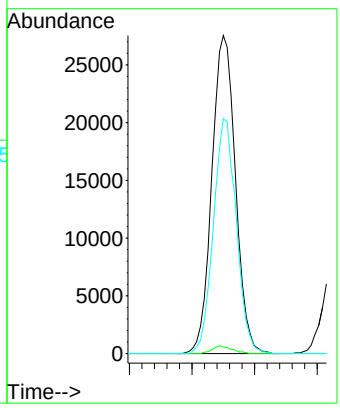
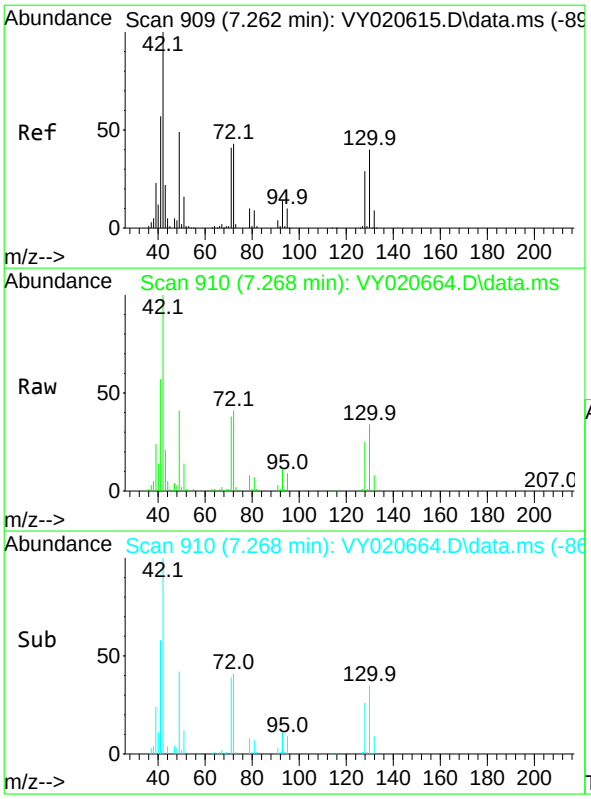



#28
Bromochloromethane
Concen: 50.330 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 49 Resp: 72076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 3.8 |
| 130 | 71.9 | 58.3 | 87.5 |

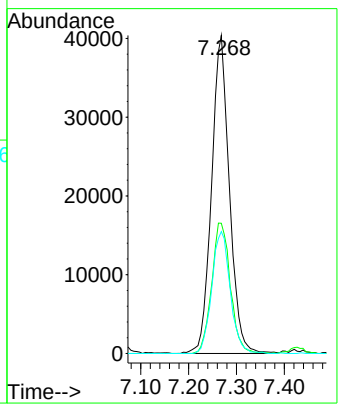





#29
Tetrahydrofuran
Concen: 250.559 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 42 Resp: 104646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.9 | 34.0 | 51.0 |
| 71 | 39.5 | 31.6 | 47.4 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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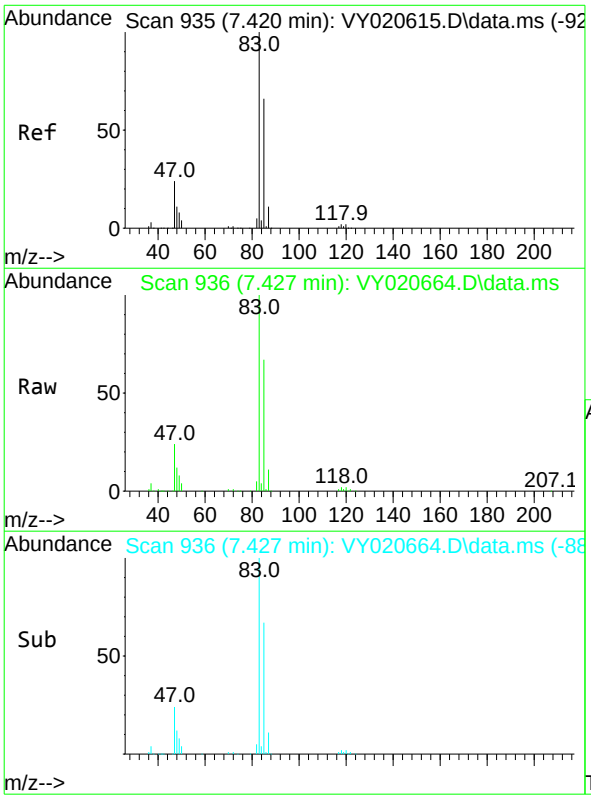
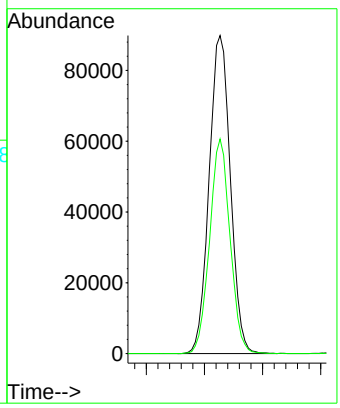
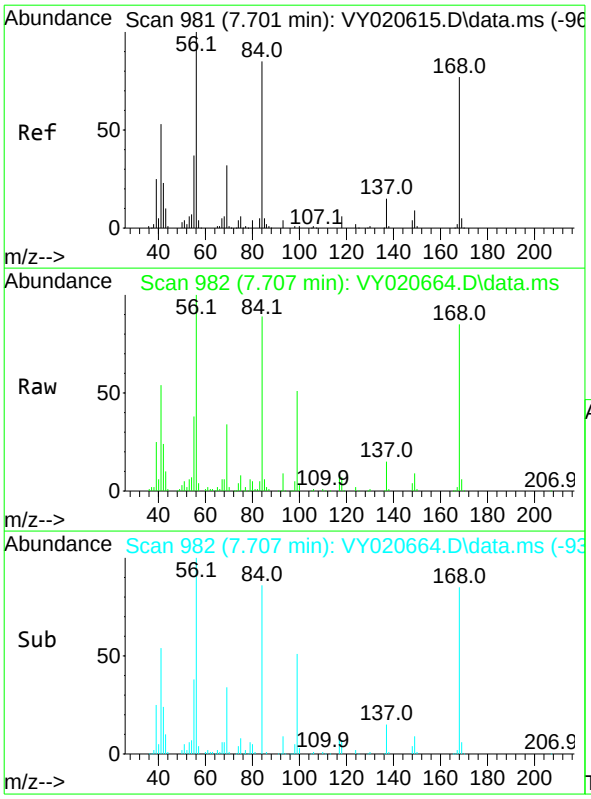



#30
Chloroform
Concen: 53.857 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.007 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 83 Resp: 227859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.5 | 52.7 | 79.1 |

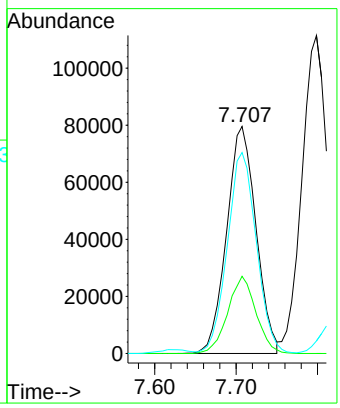





#31
Cyclohexane
Concen: 49.141 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 56 Resp: 199490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.0 | 25.4 | 38.0 |
| 84 | 86.9 | 68.3 | 102.5 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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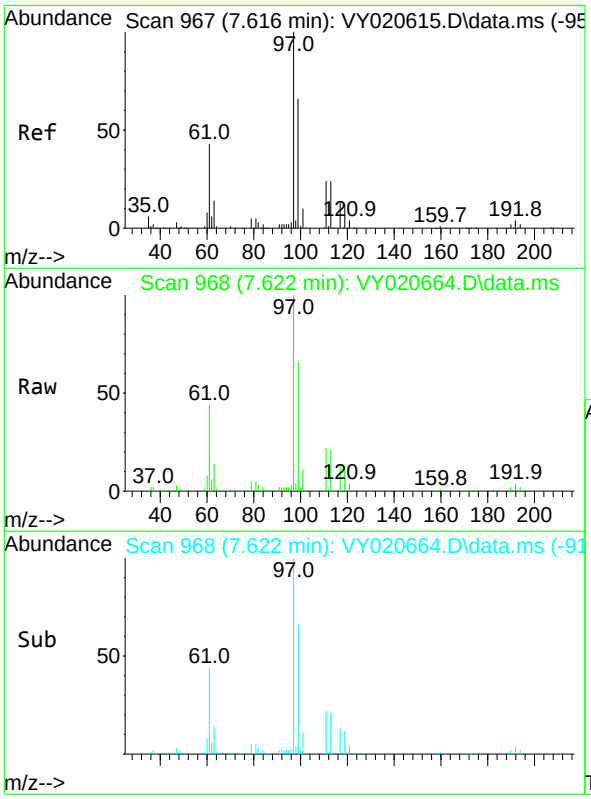
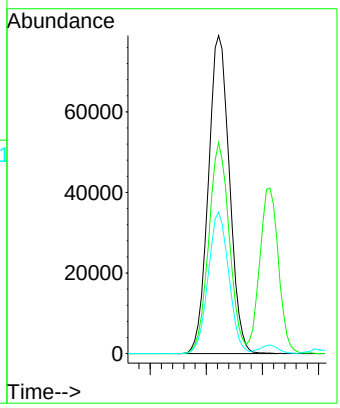
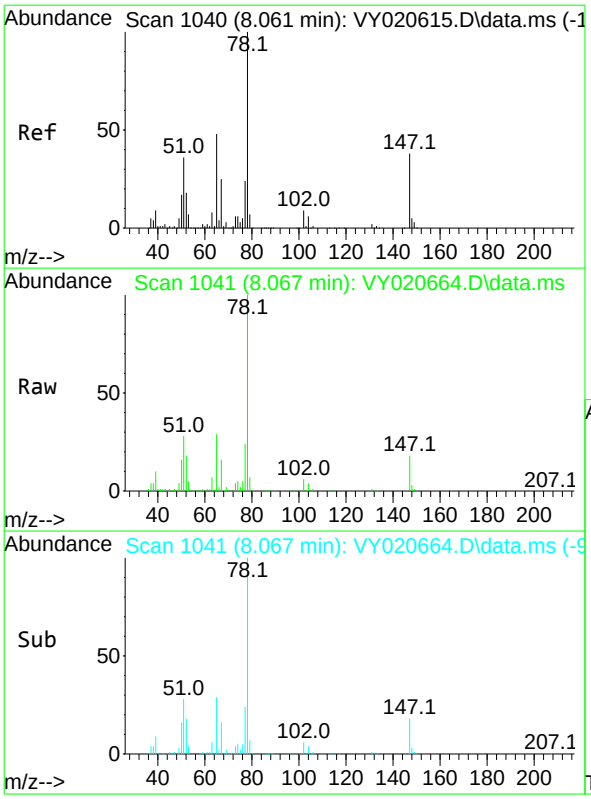



#32
1,1,1-Trichloroethane
Concen: 52.846 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 97 Resp: 206129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.9 | 51.6 | 77.4 |
| 61 | 43.6 | 34.7 | 52.1 |

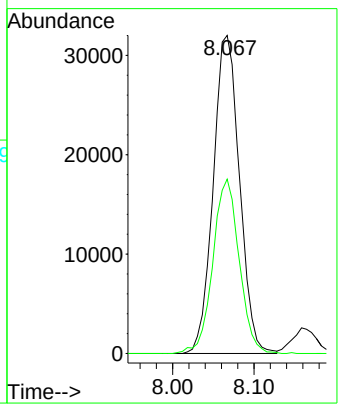





#33
1,2-Dichloroethane-d4
Concen: 40.336 ug/l
RT: 8.067 min Scan# 10
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 65 Resp: 71807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.8 | 0.0 | 108.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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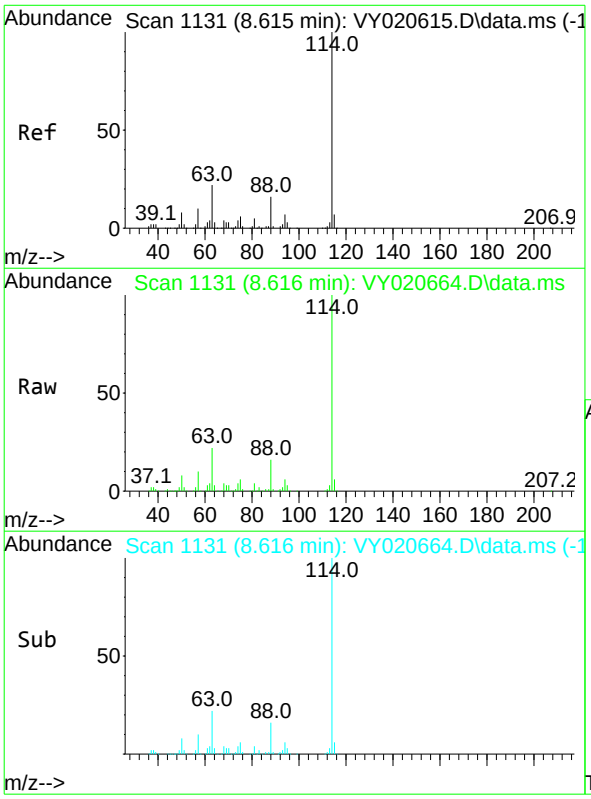
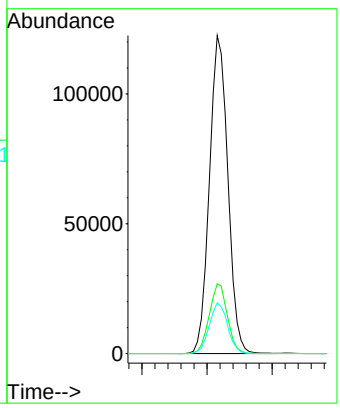
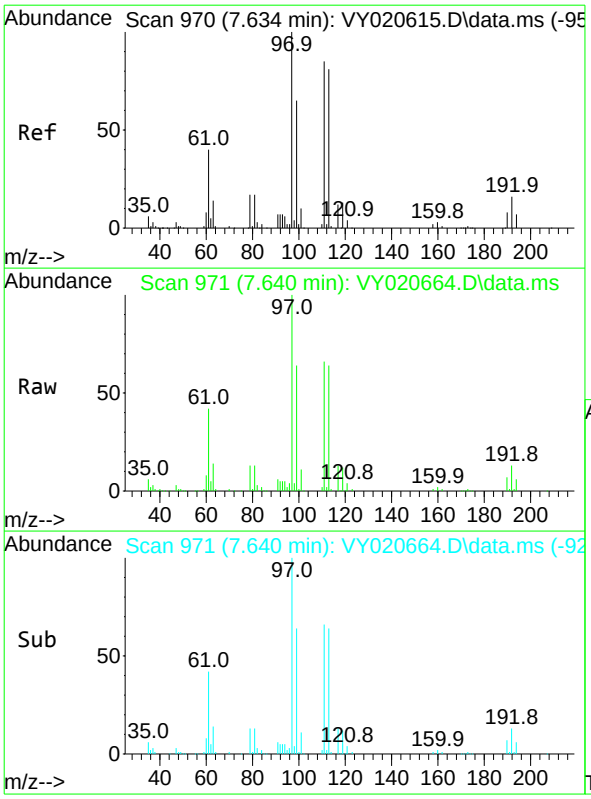



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:114 Resp: 240673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.0 | 0.0 | 44.0 |
| 88 | 16.0 | 0.0 | 32.8 |

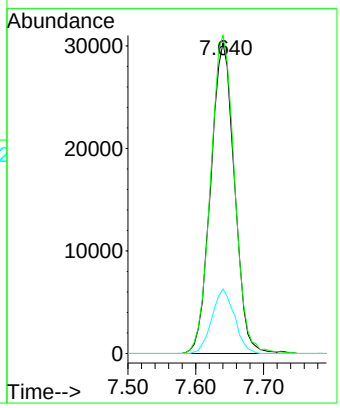





#35
Dibromofluoromethane
Concen: 43.459 ug/l
RT: 7.640 min Scan# 97
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:113 Resp: 73716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.4 | 82.9 | 124.3 |
| 192 | 19.8 | 15.7 | 23.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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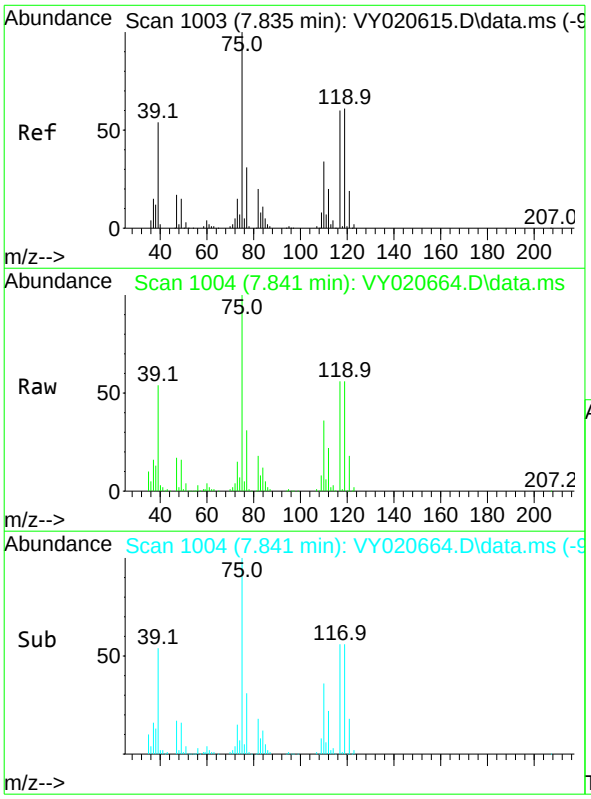
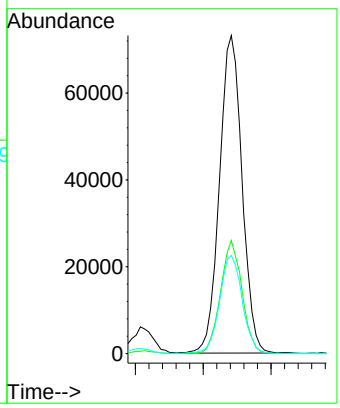
Supervised By :Mahesh Dadoda 12/24/2024

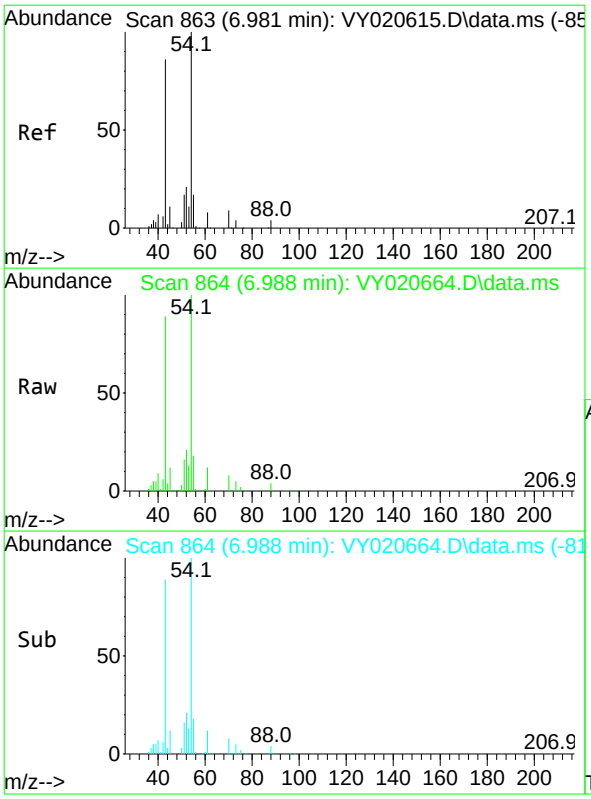



#36
1,1-Dichloropropene
Concen: 54.656 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 75 Resp: 169048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.9 | 16.8 | 50.4 |
| 77 | 31.1 | 25.0 | 37.6 |

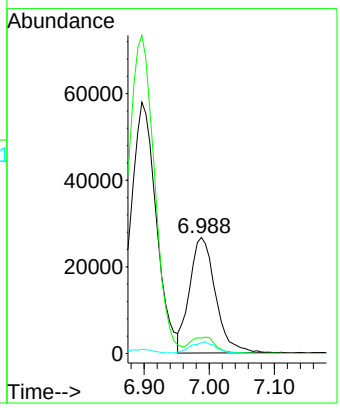





#37
Ethyl Acetate
Concen: 50.481 ug/l
RT: 6.988 min Scan# 86
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 73443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.5 | 11.0 | 16.4 |
| 70 | 9.9 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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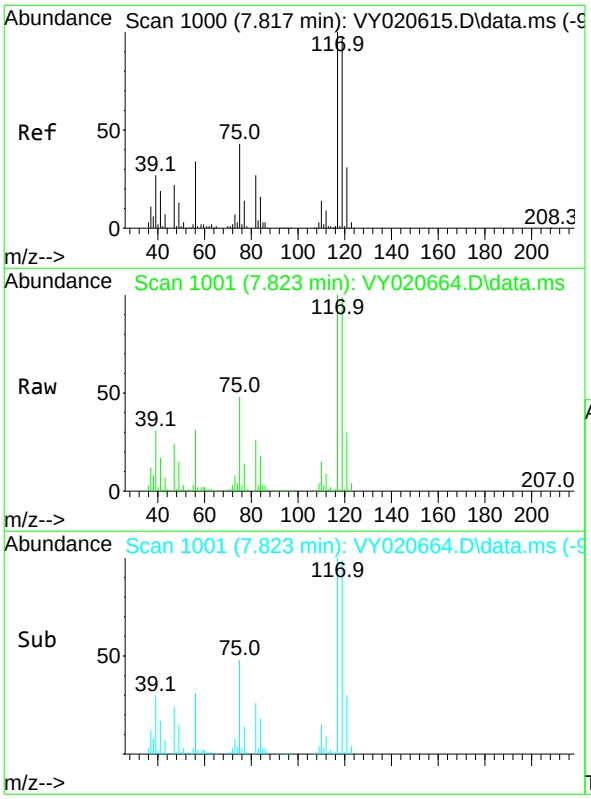
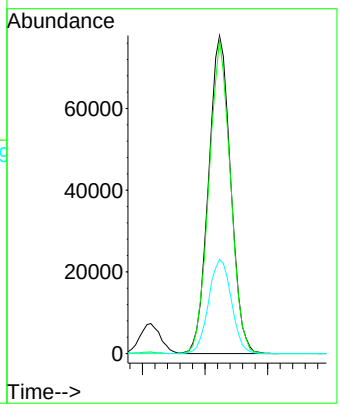
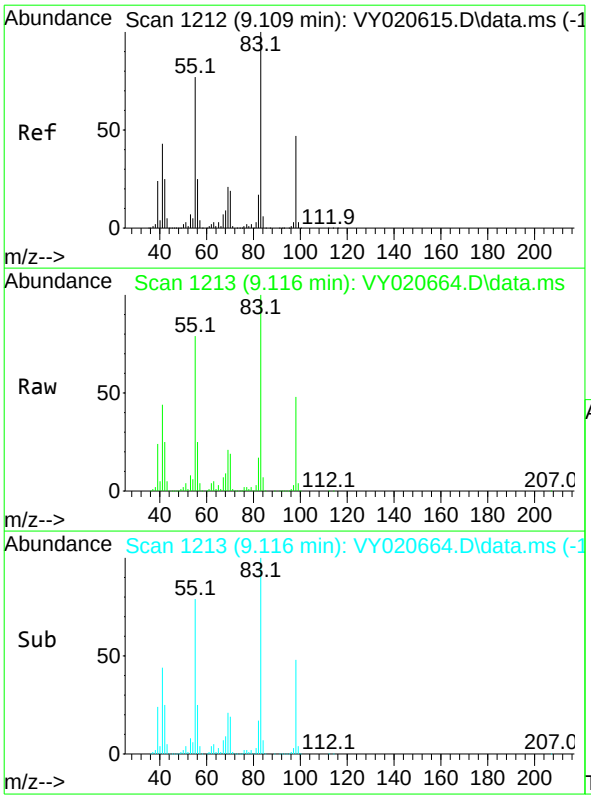



#38
Carbon Tetrachloride
Concen: 55.798 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:117 Resp: 190940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.6 | 78.3 | 117.5 |
| 121 | 29.6 | 25.1 | 37.7 |

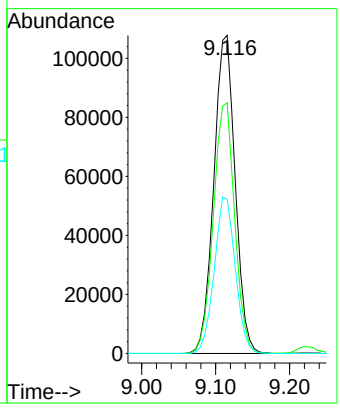





#39
Methylcyclohexane
Concen: 53.650 ug/l
RT: 9.116 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 83 Resp: 216273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 78.8 | 61.4 | 92.0 |
| 98 | 48.5 | 37.3 | 55.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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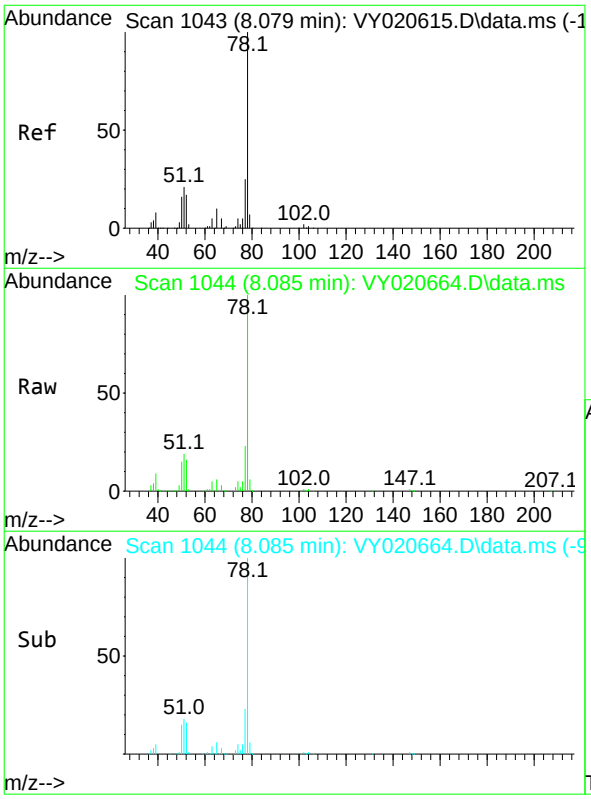
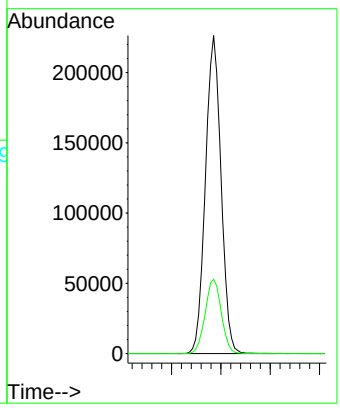
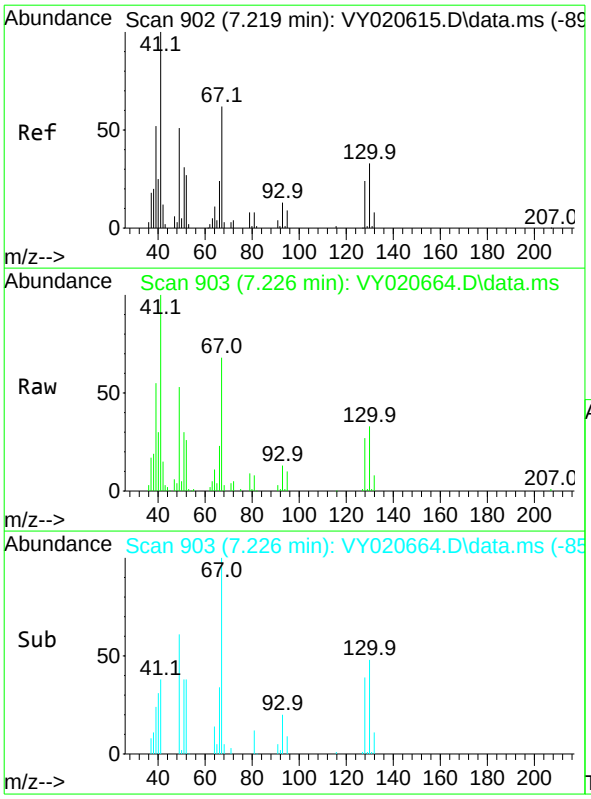



#40
Benzene
Concen: 54.799 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 78 Resp: 496803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 20.1 | 30.1 |

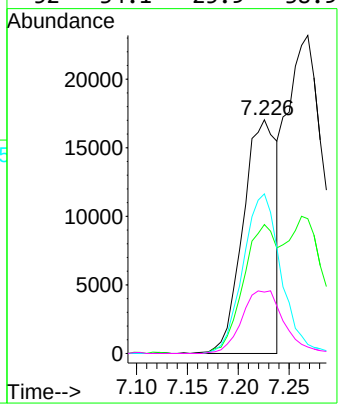





#41
Methacrylonitrile
Concen: 50.789 ug/l
RT: 7.226 min Scan# 90
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 41 Resp: 39064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.9 | 53.6 | 80.4 |
| 67 | 77.3 | 62.0 | 93.0 |
| 52 | 34.1 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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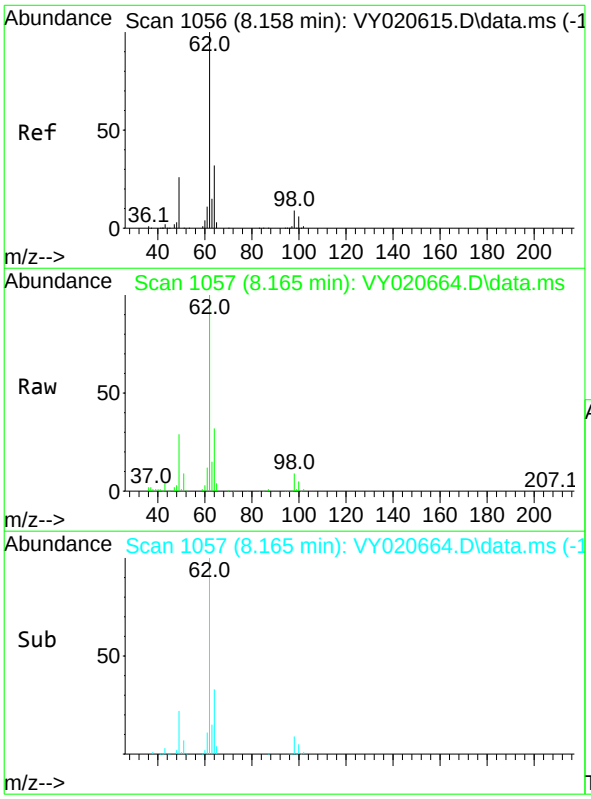
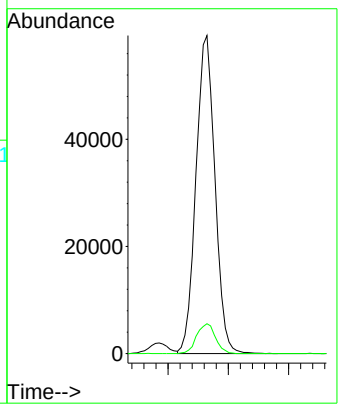
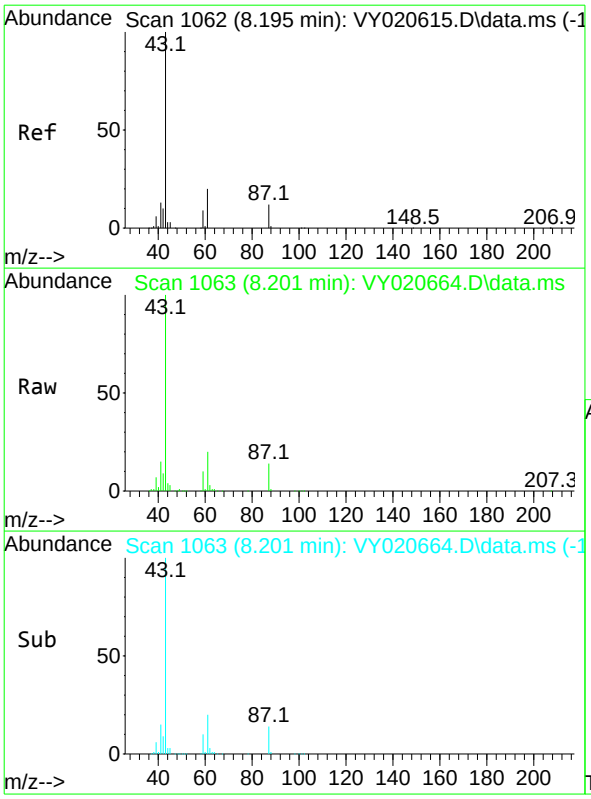



#42
1,2-Dichloroethane
Concen: 53.978 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 62 Resp: 129790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.3 | 0.0 | 18.0 |

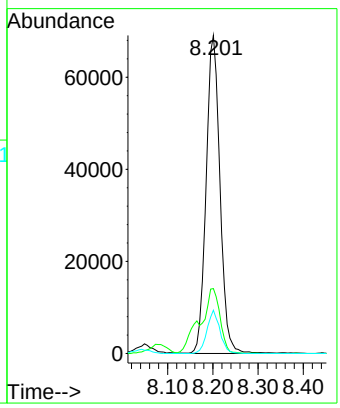





#43
Isopropyl Acetate
Concen: 53.344 ug/l
RT: 8.201 min Scan# 10
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 146927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.5 | 23.8 | 35.6# |
| 87 | 12.6 | 10.2 | 15.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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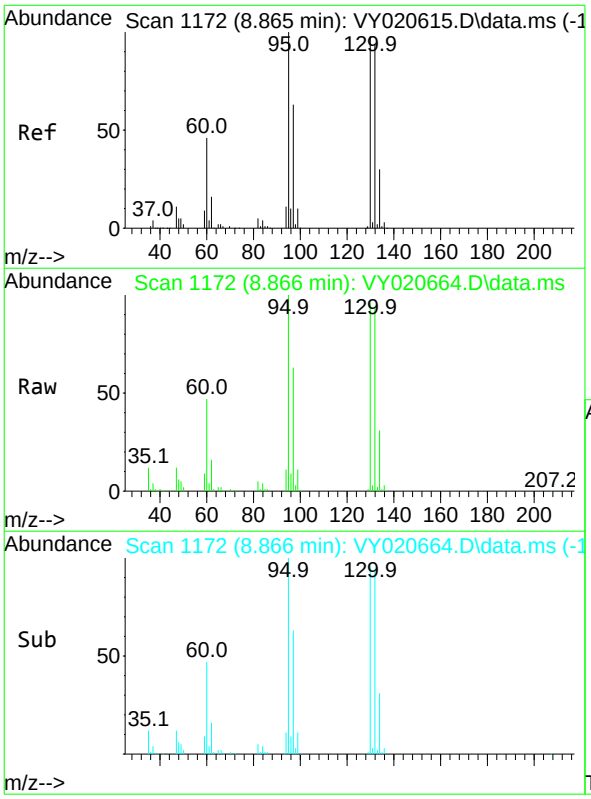
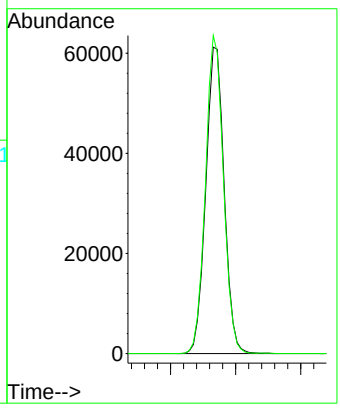
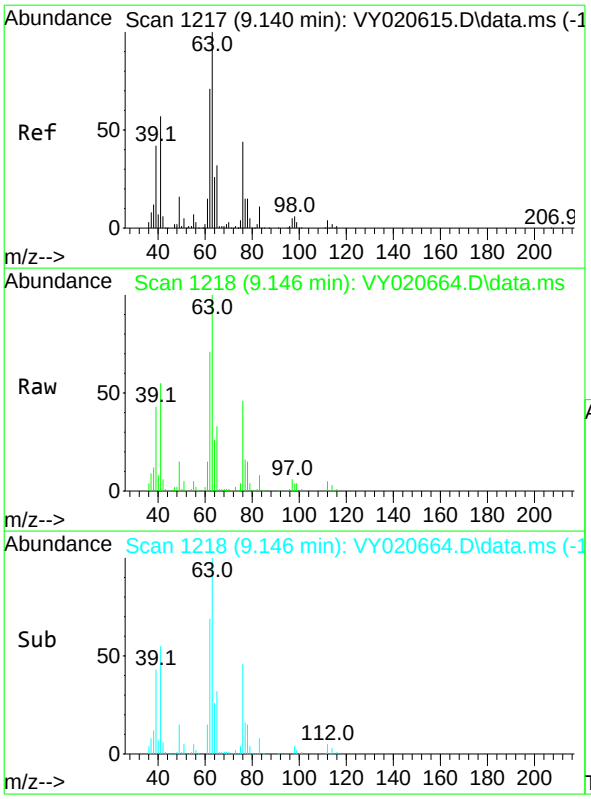



#44
Trichloroethene
Concen: 53.915 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:130 Resp: 120106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 103.8 | 0.0 | 203.2 |

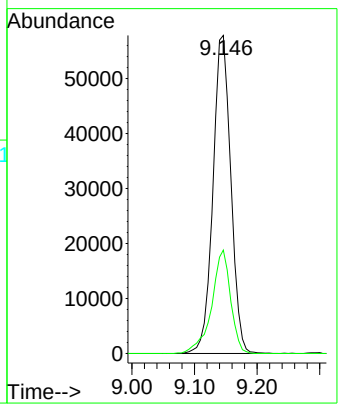





#45
1,2-Dichloropropane
Concen: 54.113 ug/l
RT: 9.146 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 63 Resp: 114657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.5 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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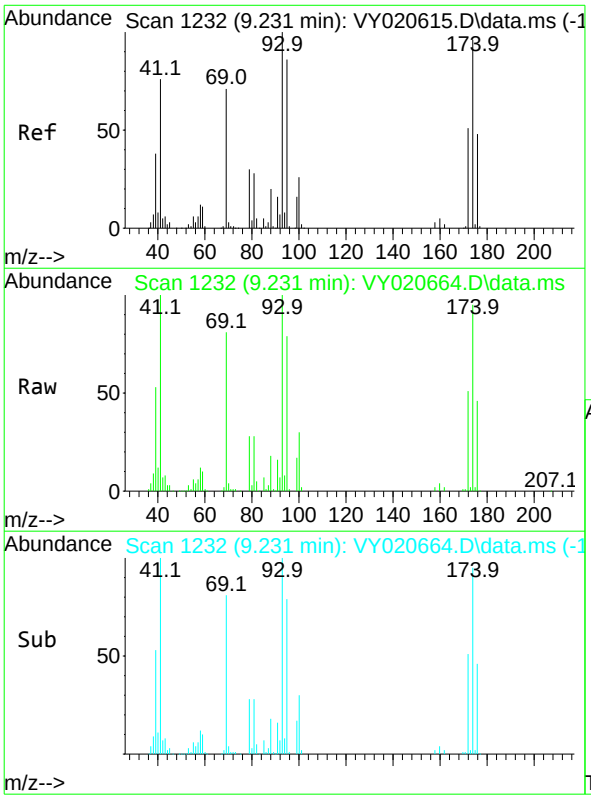
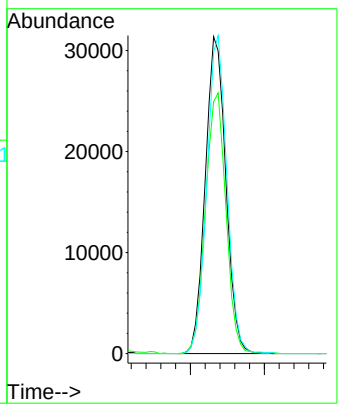
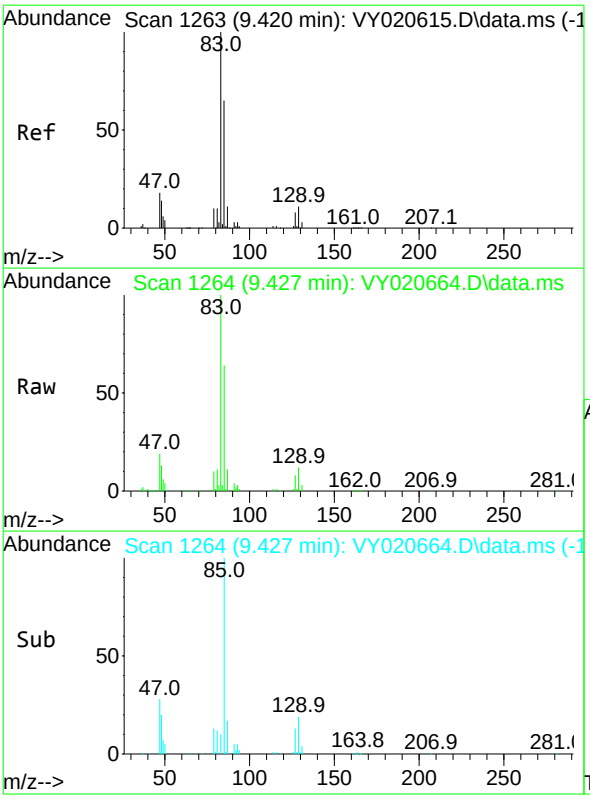



#46
Dibromomethane
Concen: 54.086 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 93 Resp: 60564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.9 | 66.7 | 100.1 |
| 174 | 97.9 | 77.8 | 116.6 |

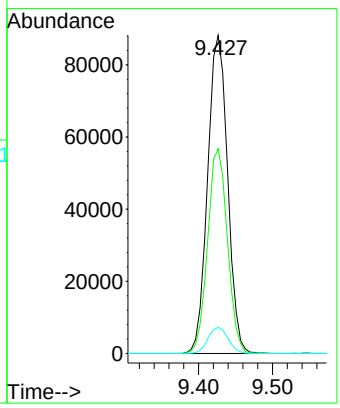





#47
Bromodichloromethane
Concen: 54.644 ug/l
RT: 9.427 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 83 Resp: 165285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.4 | 52.1 | 78.1 |
| 127 | 8.2 | 6.7 | 10.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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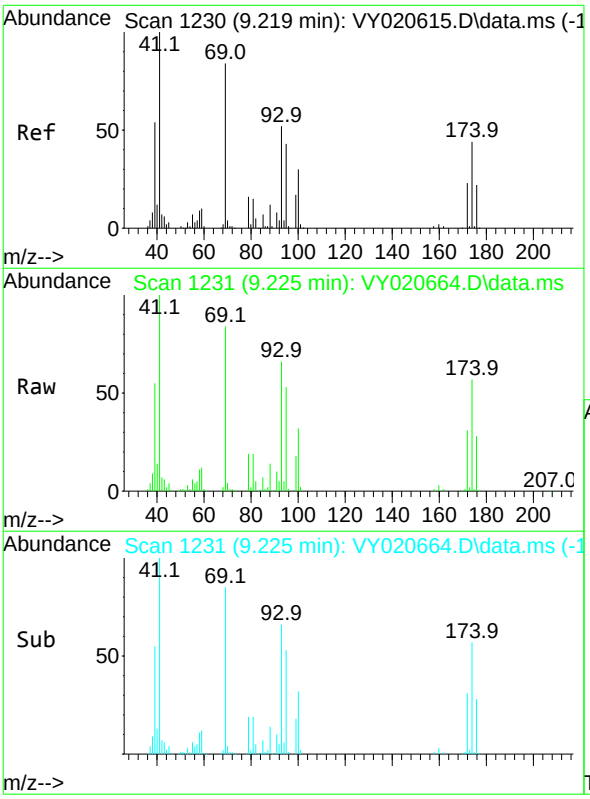
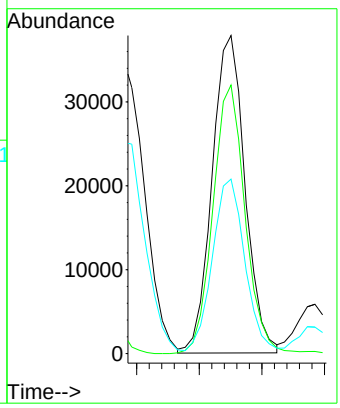
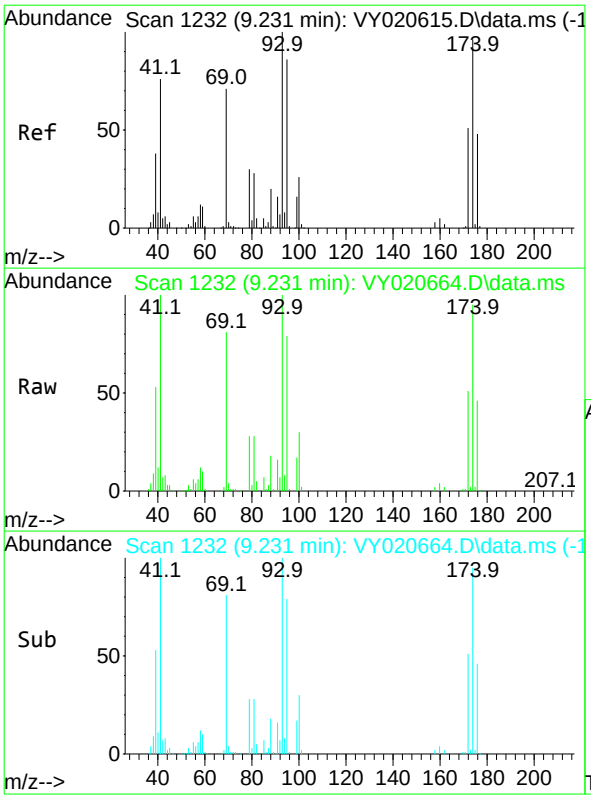



#48
Methyl methacrylate
Concen: 52.772 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 41 Resp: 69098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 82.9 | 67.2 | 100.8 |
| 39 | 52.7 | 42.2 | 63.4 |

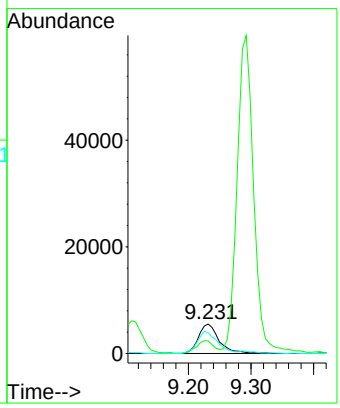





#49
1,4-Dioxane
Concen: 981.949 ug/l
RT: 9.231 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 88 Resp: 12610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.8 | 27.6 | 41.4 |
| 58 | 73.7 | 61.7 | 92.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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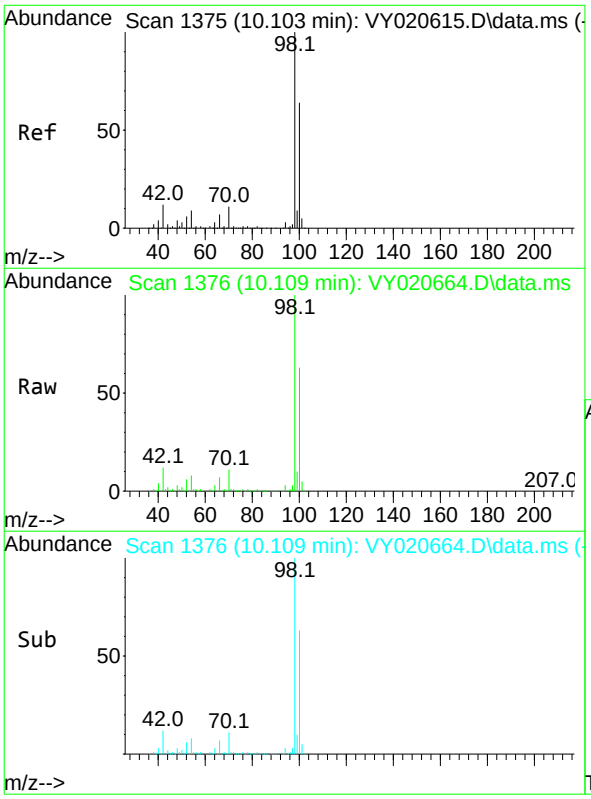
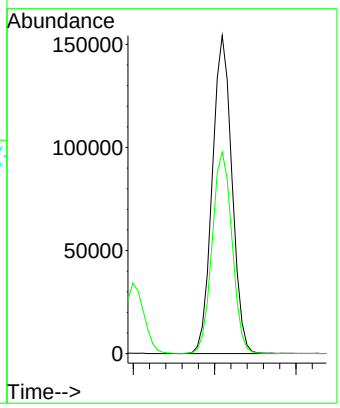
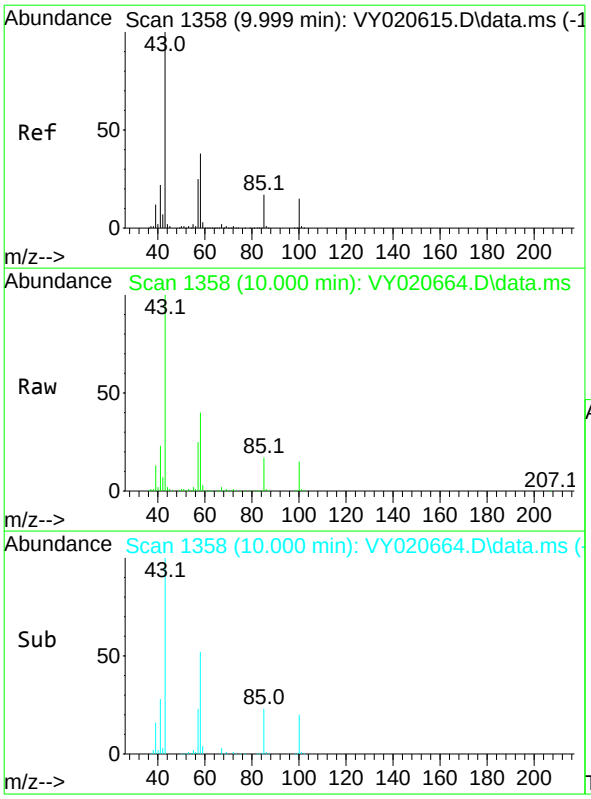



#50
Toluene-d8
Concen: 43.661 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 98 Resp: 259216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 52.1 | 78.1 |

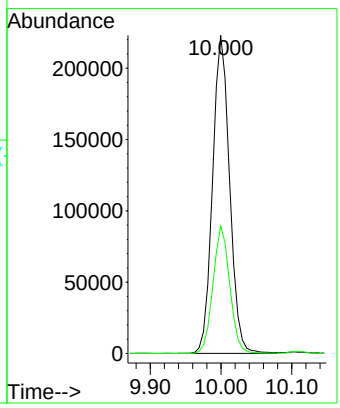





#51
4-Methyl-2-Pentanone
Concen: 256.228 ug/l
RT: 10.000 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 372513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.4 | 31.4 | 47.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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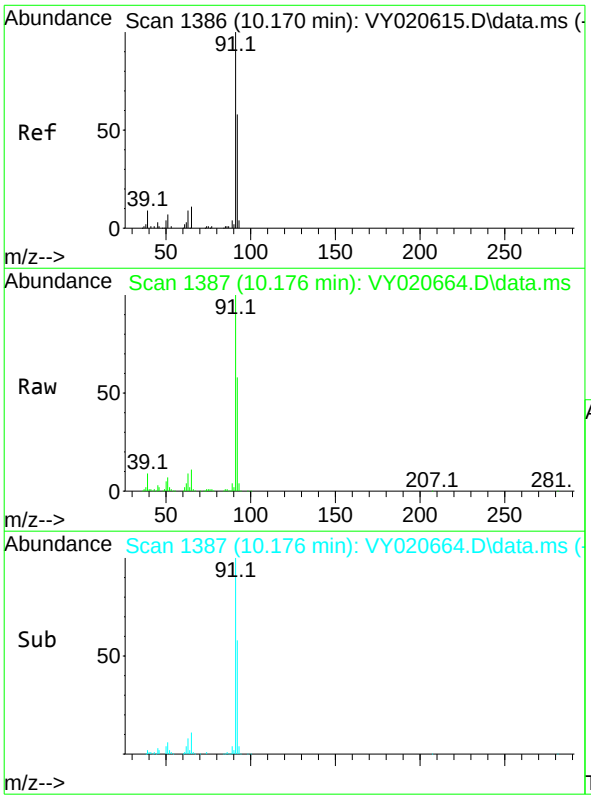
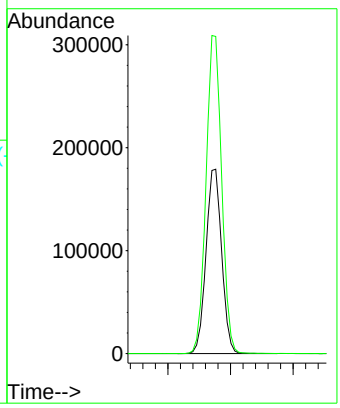
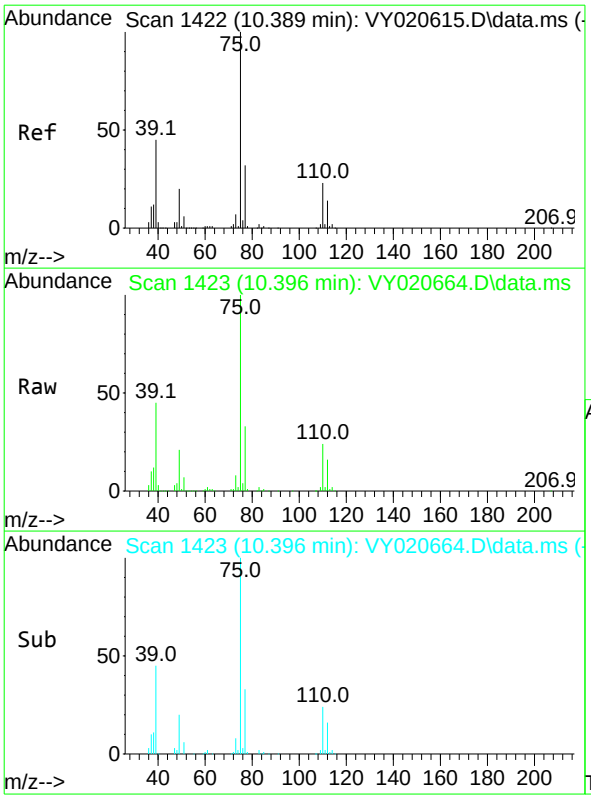



#52
Toluene
Concen: 55.159 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 92 Resp: 310772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.3 | 137.4 | 206.0 |

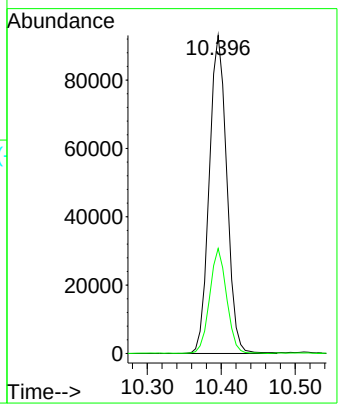





#53
t-1,3-Dichloropropene
Concen: 54.306 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 75 Resp: 153061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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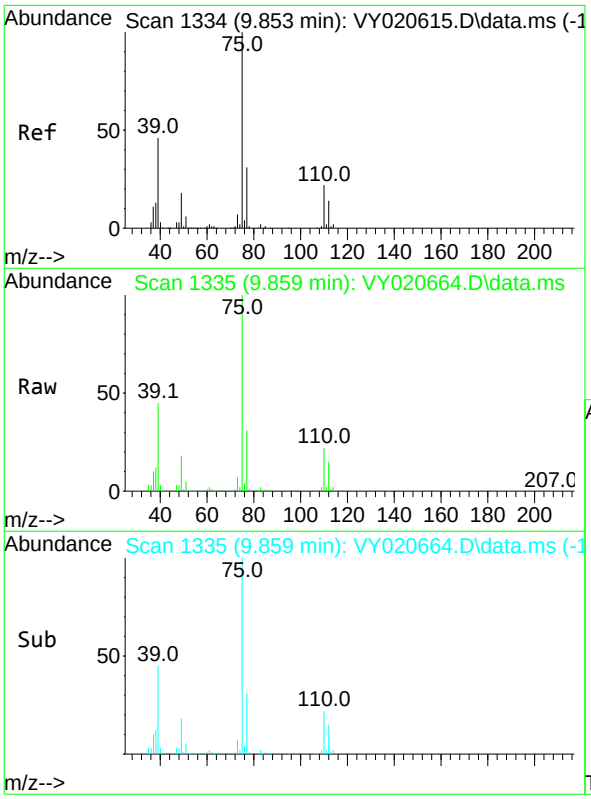
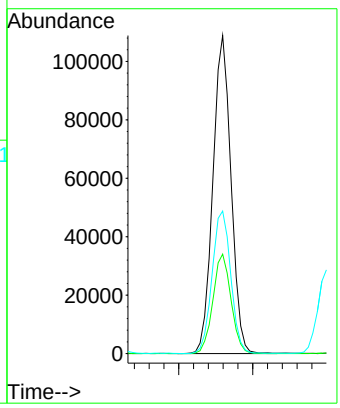
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

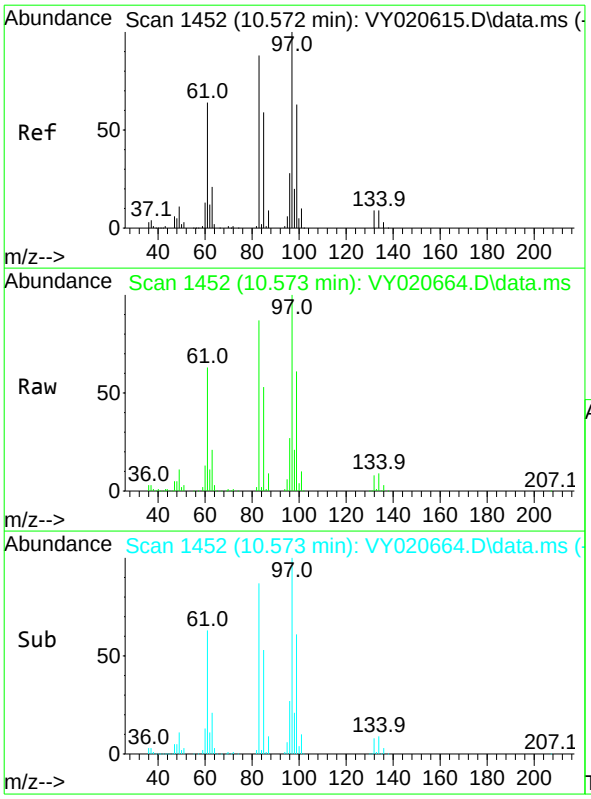



#54
cis-1,3-Dichloropropene
Concen: 55.407 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 75 Resp: 185052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 24.6 | 36.8 |
| 39 | 44.8 | 36.4 | 54.6 |

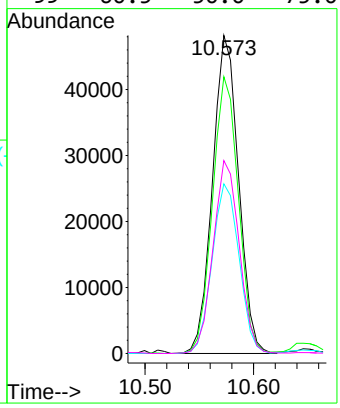





#55
1,1,2-Trichloroethane
Concen: 54.290 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 97 Resp: 80376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.9 | 70.4 | 105.6 |
| 85 | 53.3 | 47.2 | 70.8 |
| 99 | 60.5 | 50.0 | 75.0 |




**Instrument :**
MSVOA_Y
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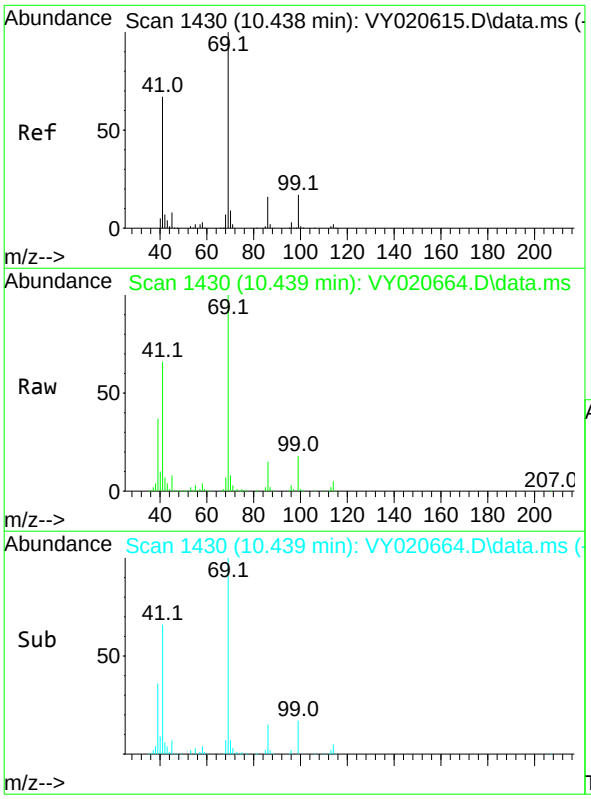
VSTDCCC050

**Manual Integrations APPROVED**

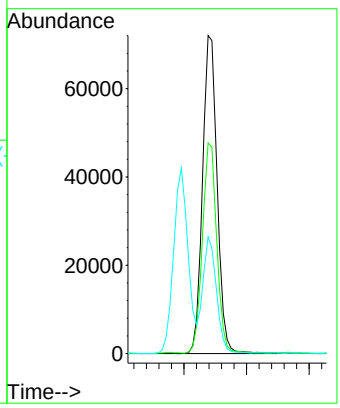
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

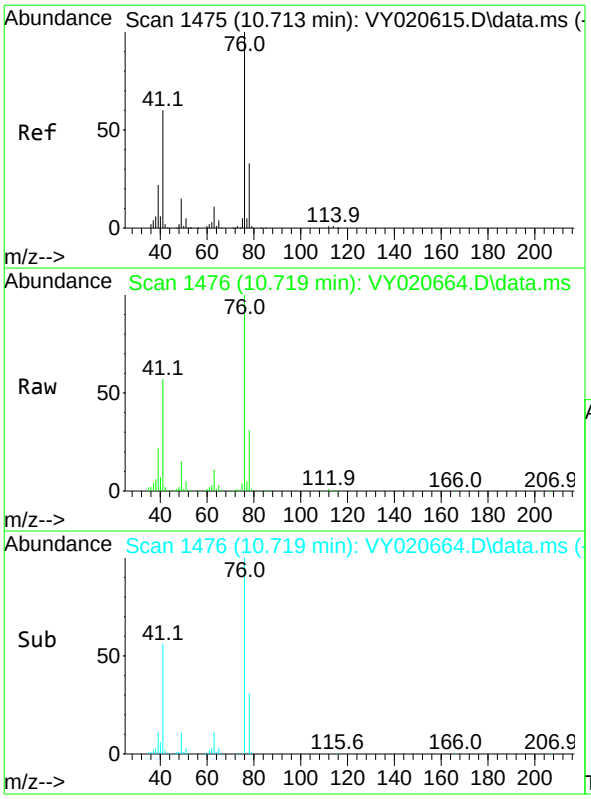



#56
Ethyl methacrylate
Concen: 54.394 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 69 Resp: 116828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.9 | 54.0 | 81.0 |
| 39 | 34.0 | 27.9 | 41.9 |

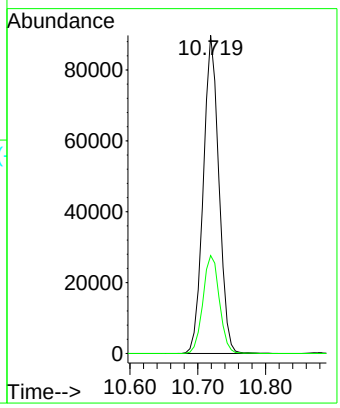





#57
1,3-Dichloropropane
Concen: 54.257 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 76 Resp: 143193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 25.8 | 38.8 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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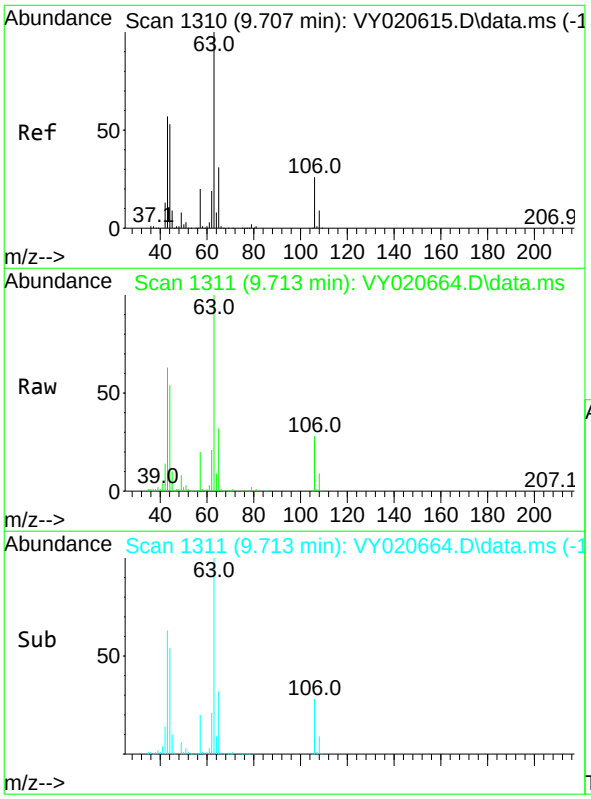
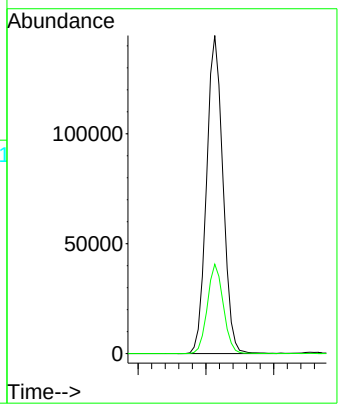
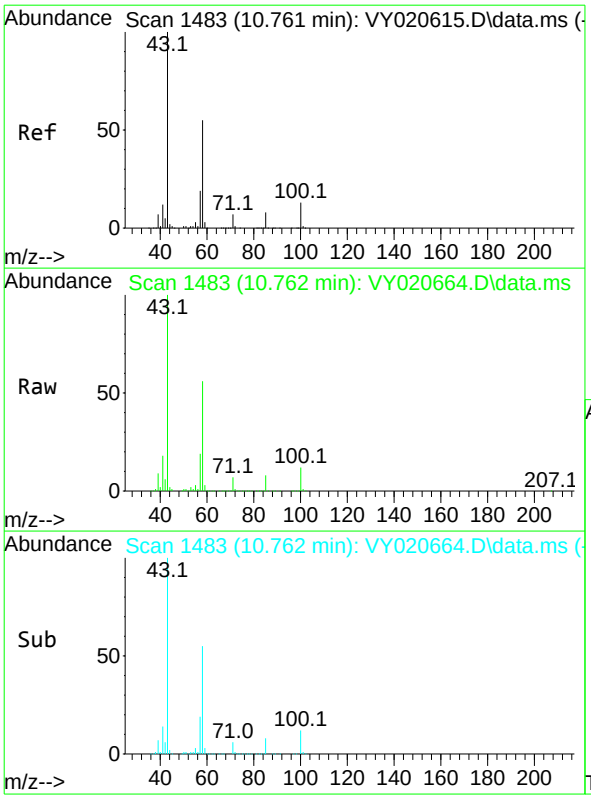



#58
2-Chloroethyl Vinyl ether
Concen: 268.265 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 63 Resp: 242438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.3 | 21.5 | 32.3 |

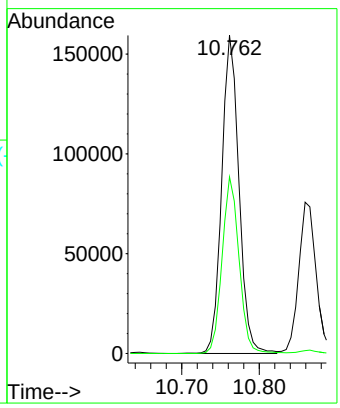





#59
2-Hexanone
Concen: 263.689 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 246134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.7 | 27.2 | 81.6 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

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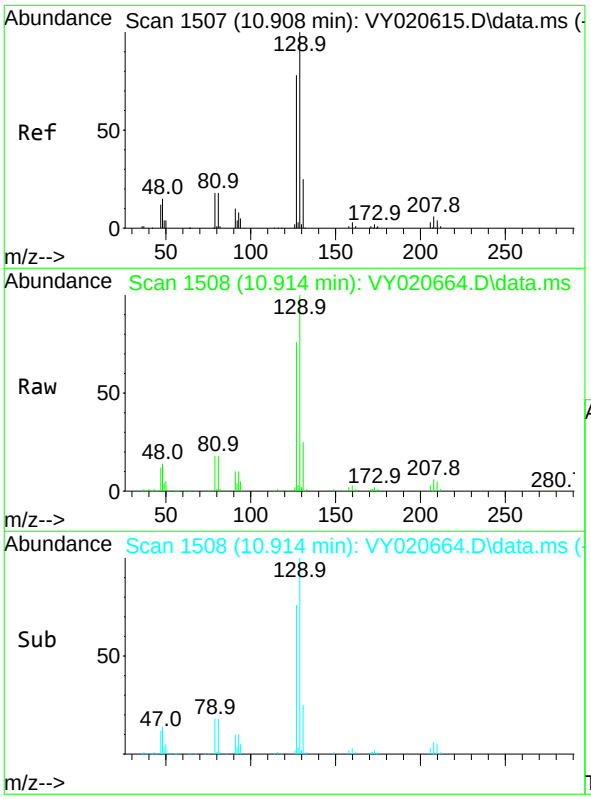
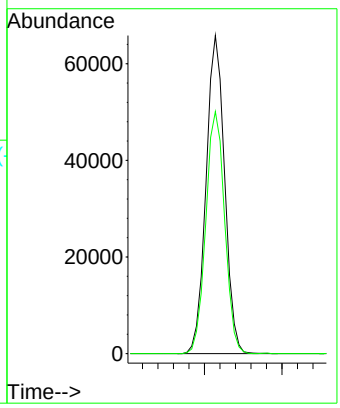
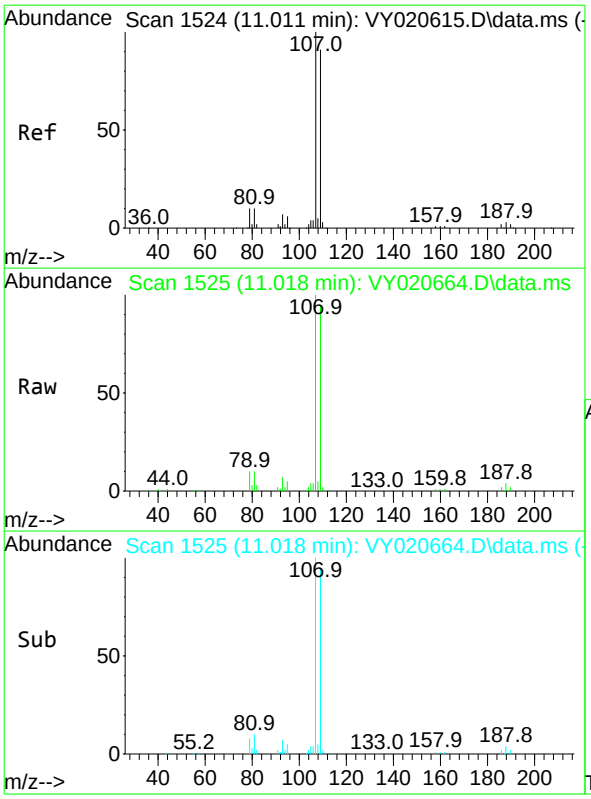



#60
Dibromochloromethane
Concen: 55.226 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:129 Resp: 109346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.1 | 114.3 |

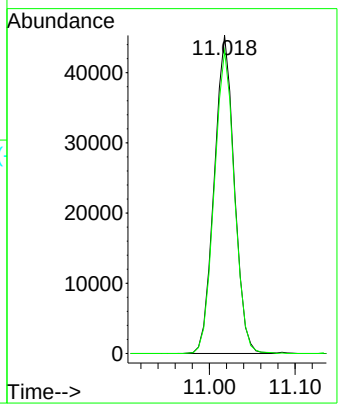





#61
1,2-Dibromoethane
Concen: 53.496 ug/l
RT: 11.018 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:107 Resp: 73670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.0 | 75.4 | 113.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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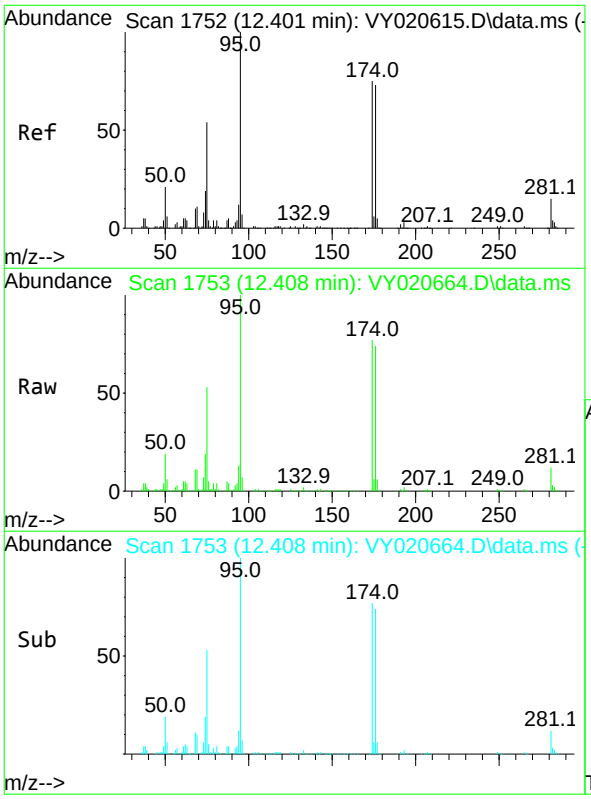
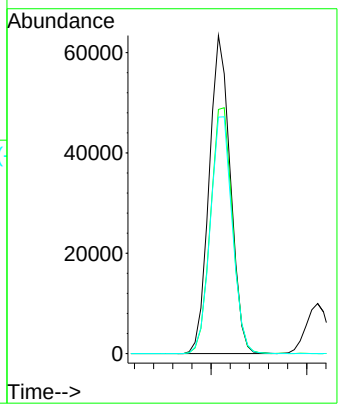
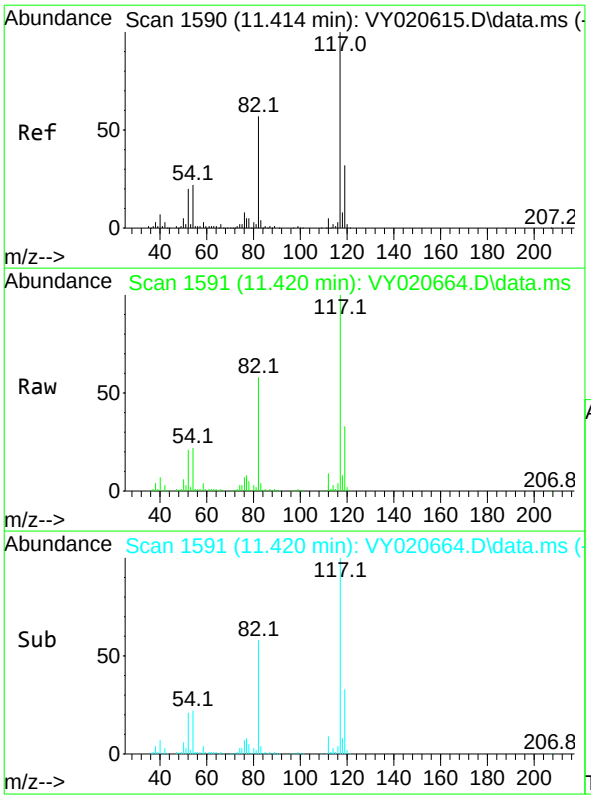



#62
4-Bromofluorobenzene
Concen: 42.036 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 95 Resp: 97623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 79.5 | 0.0 | 161.8 |
| 176 | 77.0 | 0.0 | 156.6 |

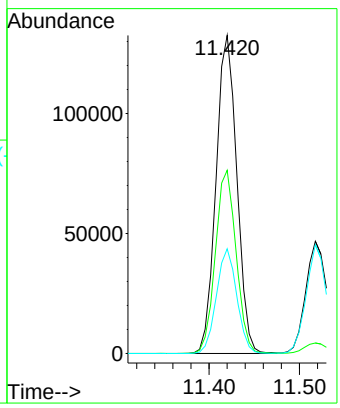





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:117 Resp: 212145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.6 | 45.8 | 68.6 |
| 119 | 32.9 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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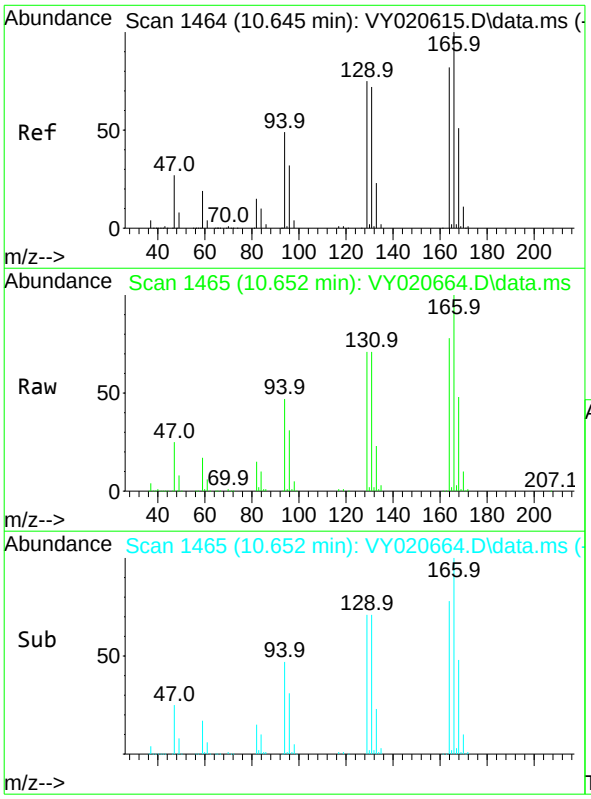
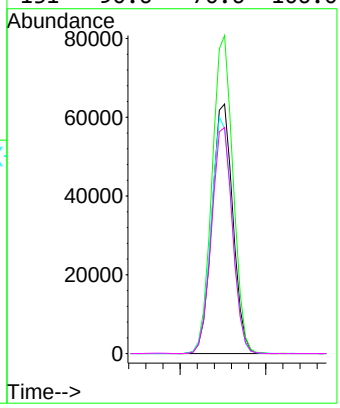
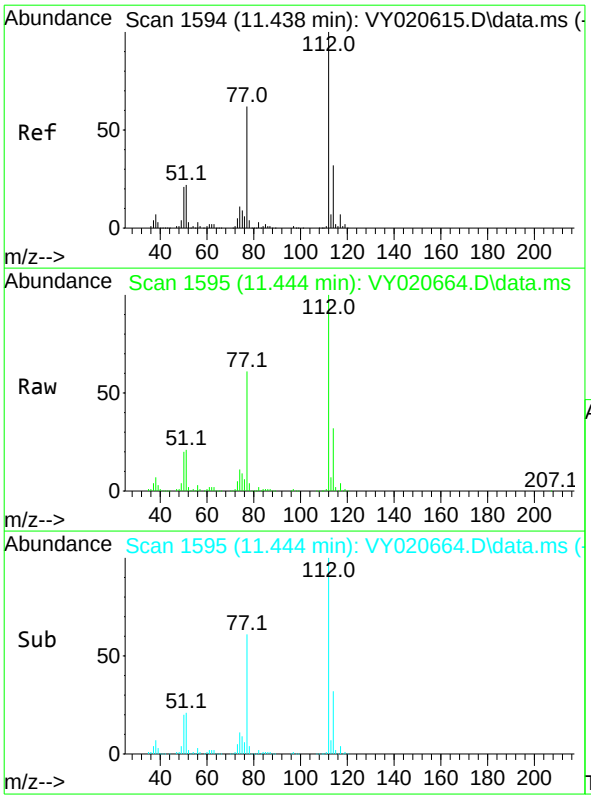



#64
Tetrachloroethene
Concen: 53.958 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:164 Resp: 107671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.4 | 97.9 | 146.9 |
| 129 | 90.1 | 73.4 | 110.0 |
| 131 | 90.6 | 70.6 | 106.0 |

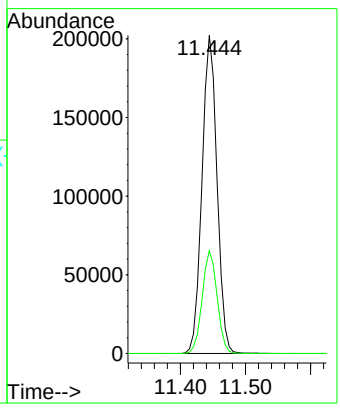





#65
Chlorobenzene
Concen: 54.474 ug/l
RT: 11.444 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:112 Resp: 323124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.3 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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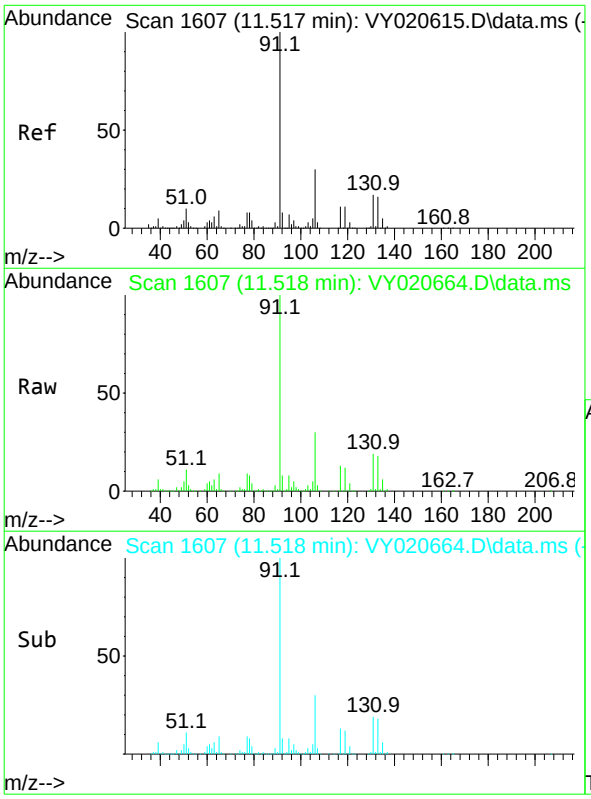
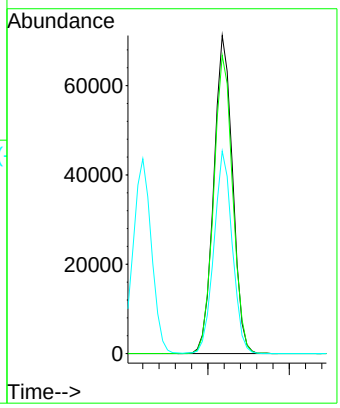
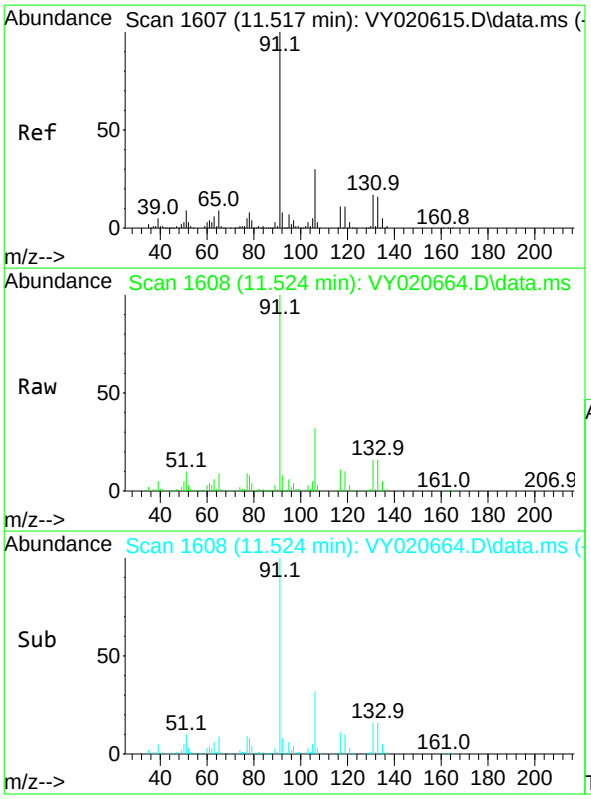



#66
1,1,1,2-Tetrachloroethane
Concen: 56.252 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:131 Resp: 114100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 46.8 | 140.3 |
| 119 | 62.2 | 31.8 | 95.3 |

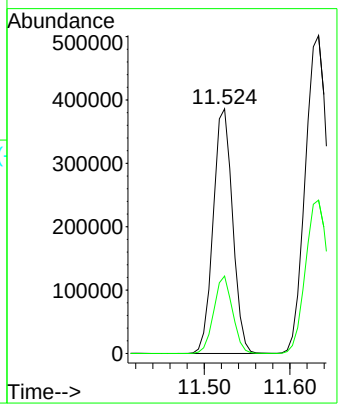





#67
Ethyl Benzene
Concen: 55.519 ug/l
RT: 11.524 min Scan# 16
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 91 Resp: 607565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.6 | 23.9 | 35.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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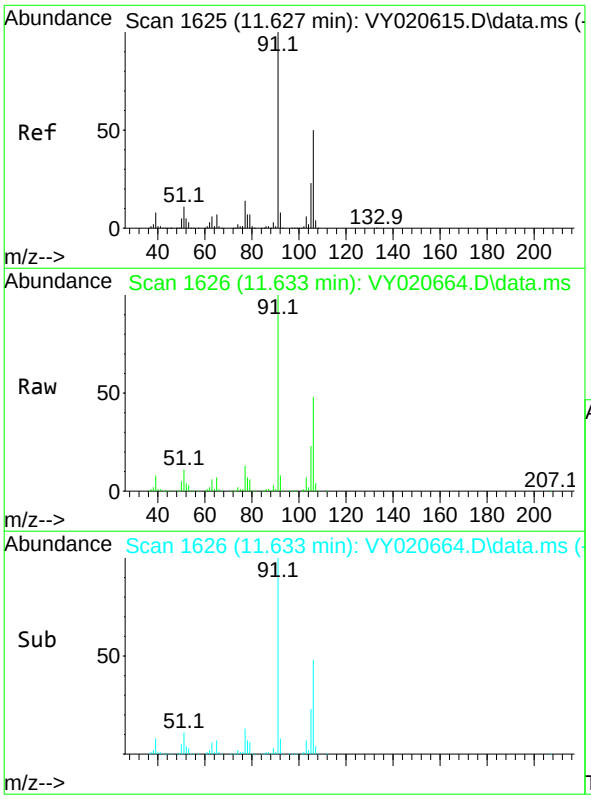
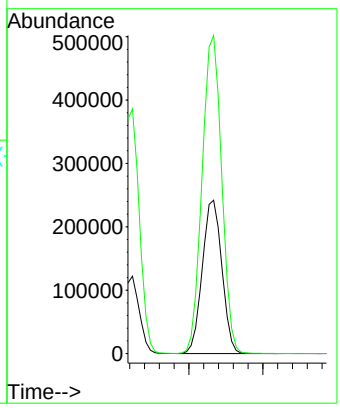
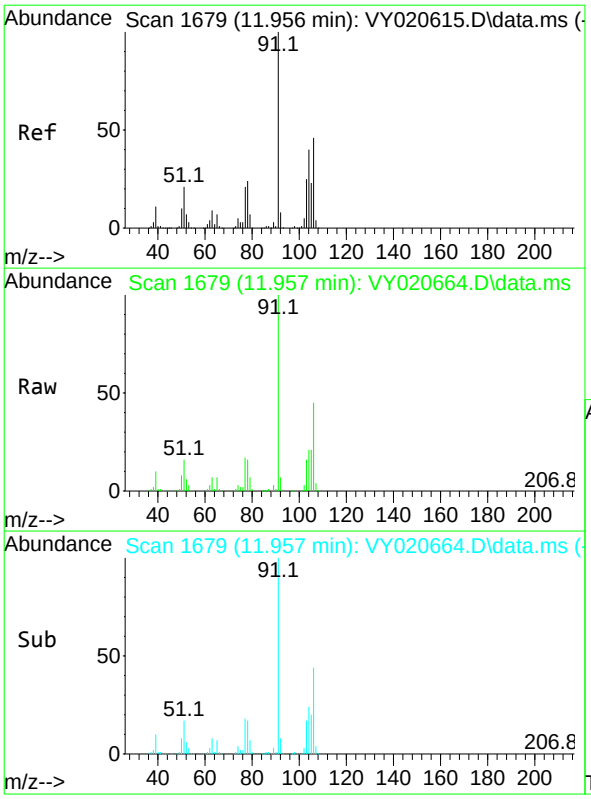



#68
m/p-Xylenes
Concen: 109.344 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:106 Resp: 444911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.2 | 165.0 | 247.4 |

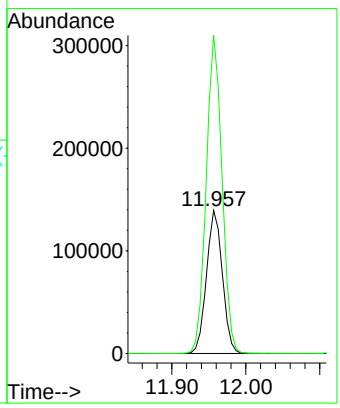





#69
o-Xylene
Concen: 54.792 ug/l
RT: 11.957 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:106 Resp: 208015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 221.2 | 108.4 | 325.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

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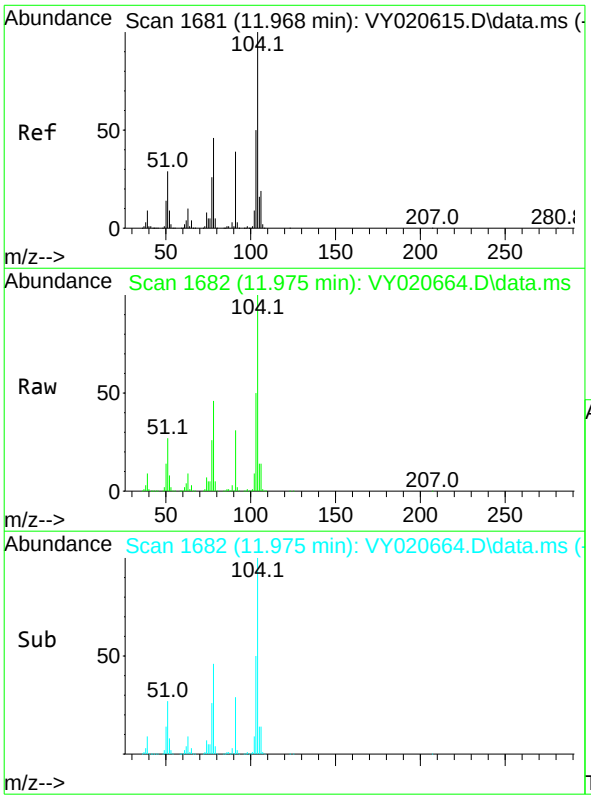
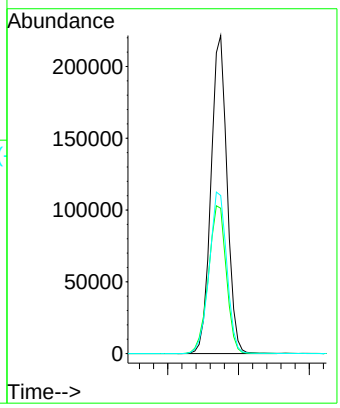
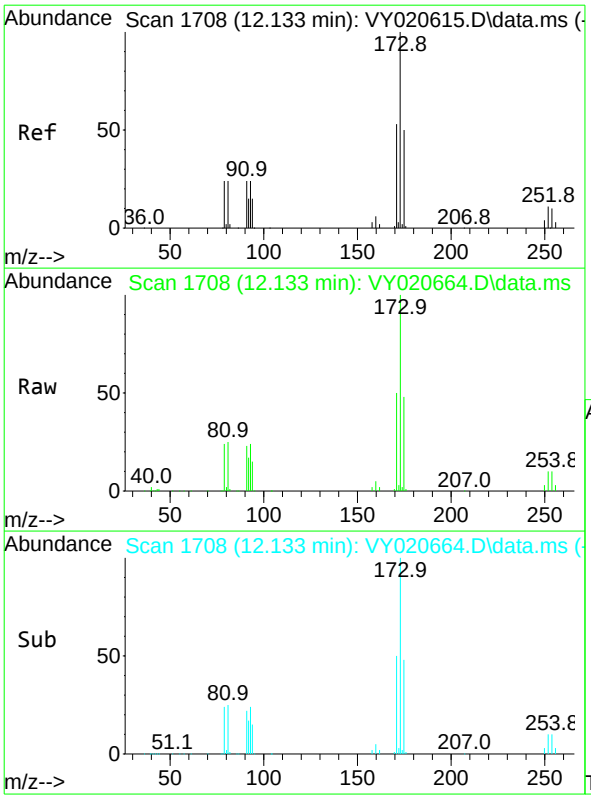



#70
Styrene
Concen: 55.127 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:104 Resp: 349665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.8 | 41.6 | 62.4 |
| 103 | 55.6 | 43.7 | 65.5 |

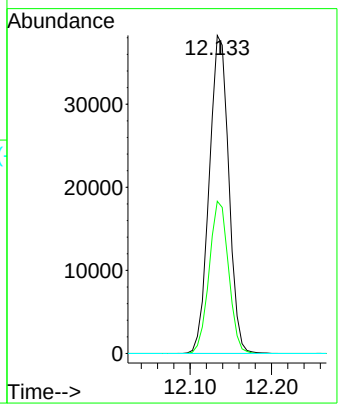





#71
Bromoform
Concen: 55.908 ug/l
RT: 12.133 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:173 Resp: 63758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.6 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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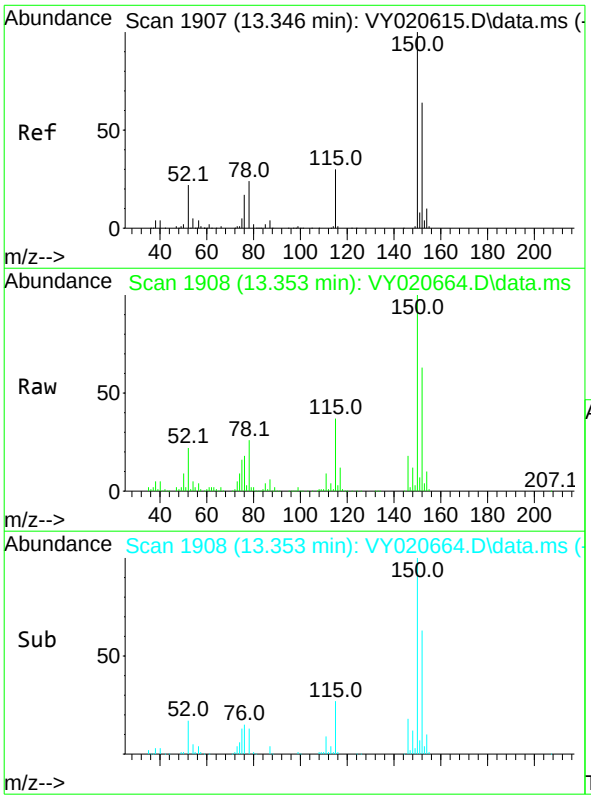
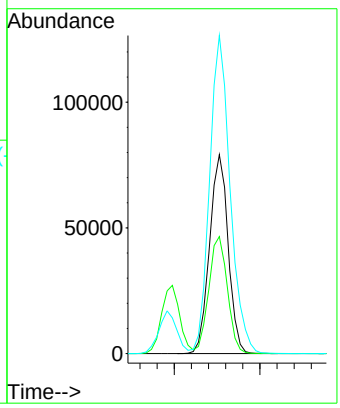
Supervised By :Mahesh Dadoda 12/24/2024

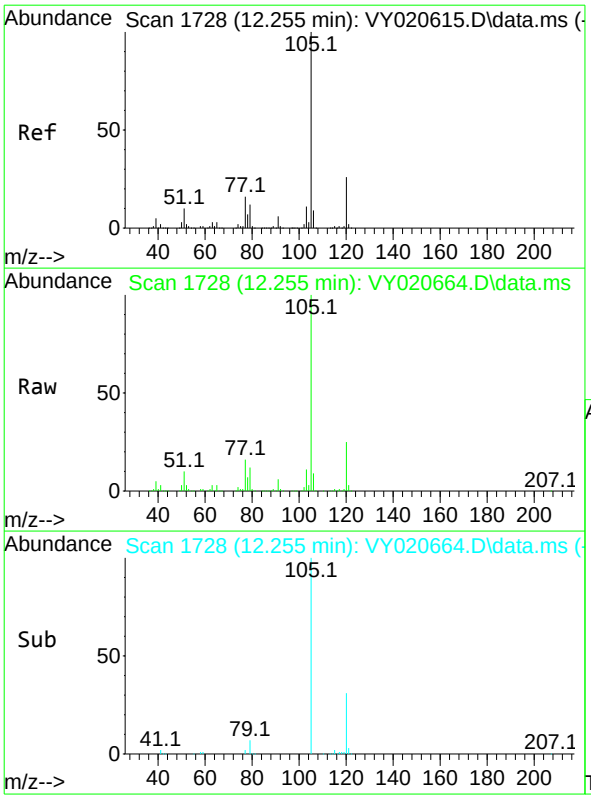



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:152 Resp: 119359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.9 | 30.2 | 90.6 |
| 150 | 176.8 | 0.0 | 355.4 |

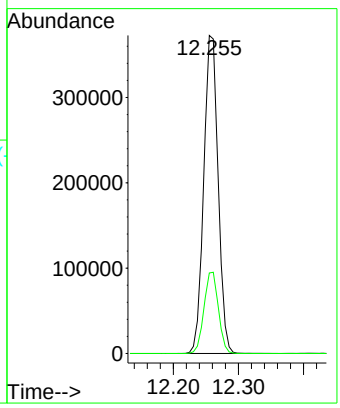





#73
Isopropylbenzene
Concen: 54.823 ug/l
RT: 12.255 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:105 Resp: 571028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.6 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
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VSTDCCC050

**Manual Integrations**
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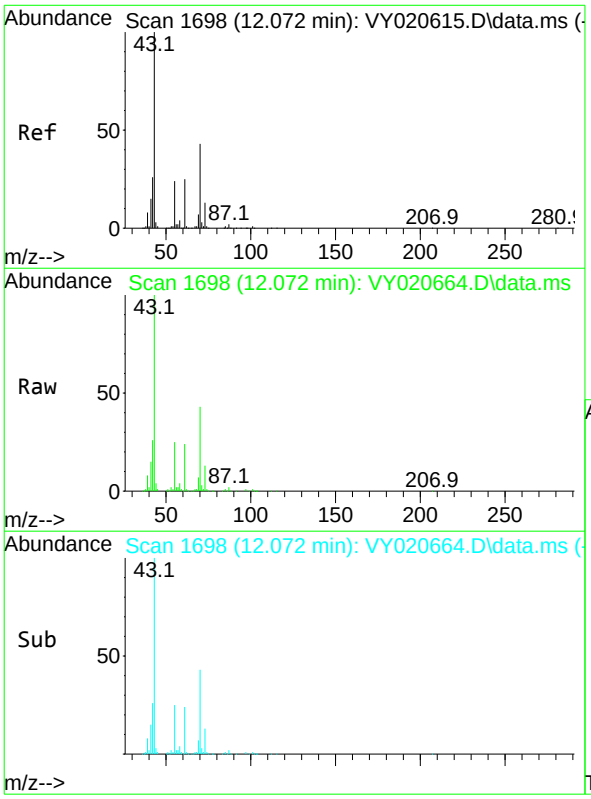
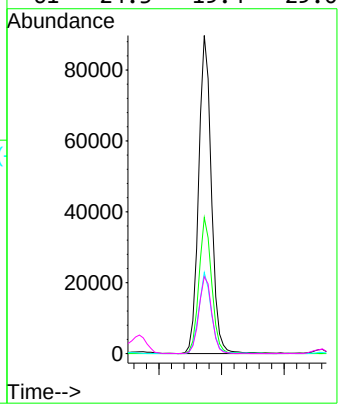
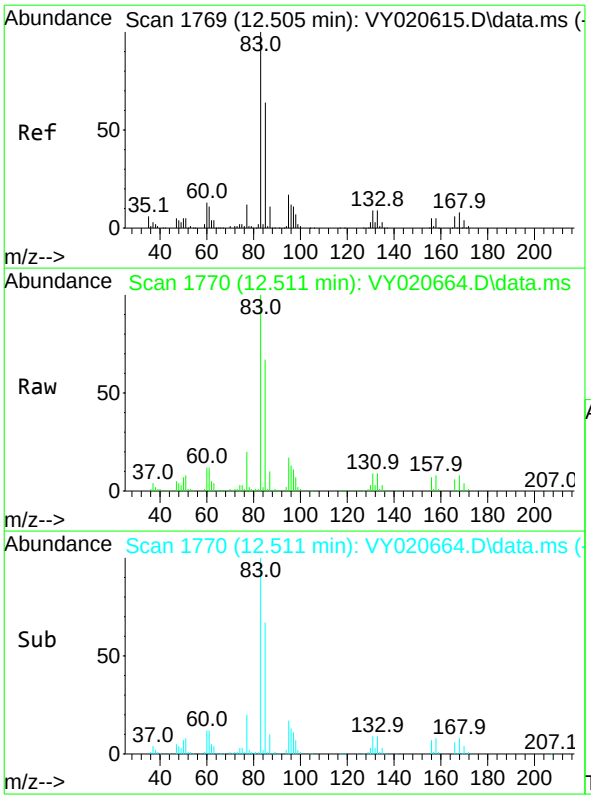



#74
N-amyl acetate
Concen: 52.048 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 126874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.4 | 34.2 | 51.2 |
| 55 | 24.9 | 19.6 | 29.4 |
| 61 | 24.3 | 19.4 | 29.0 |

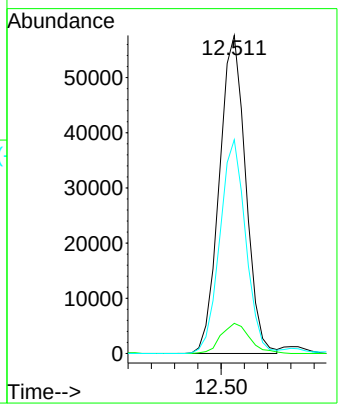





#75
1,1,2,2-Tetrachloroethane
Concen: 53.553 ug/l
RT: 12.511 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 83 Resp: 90544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 5.2 | 15.6 |
| 85 | 66.2 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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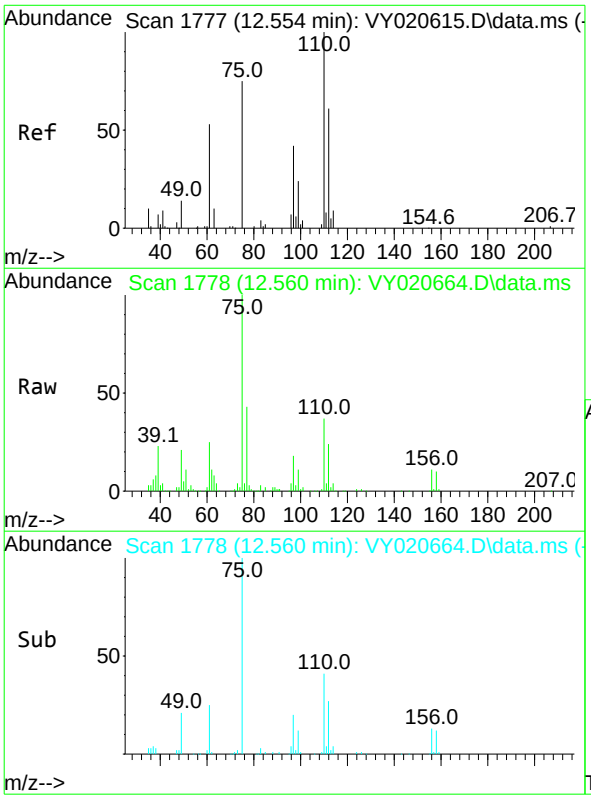
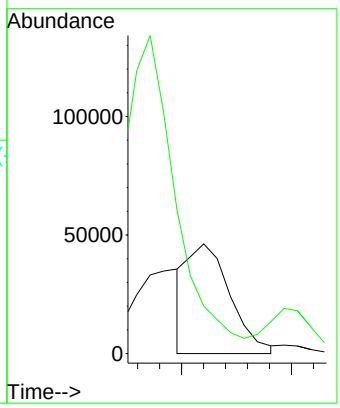
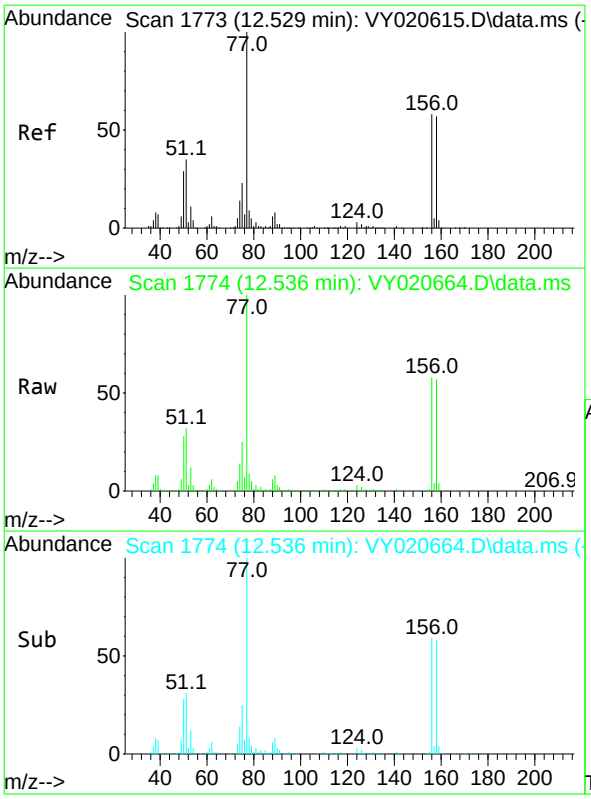



#76
1,2,3-Trichloropropane
Concen: 50.593 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 75 Resp: 62731

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

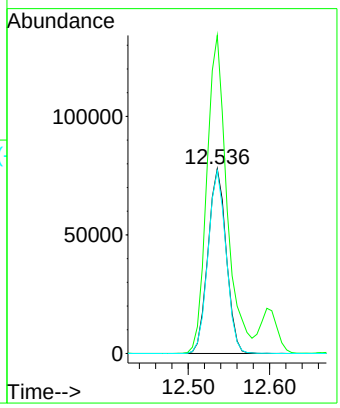





#77
Bromobenzene
Concen: 53.559 ug/l
RT: 12.536 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:156 Resp: 121520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 189.5 | 94.2 | 282.4 |
| 158 | 97.6 | 48.9 | 146.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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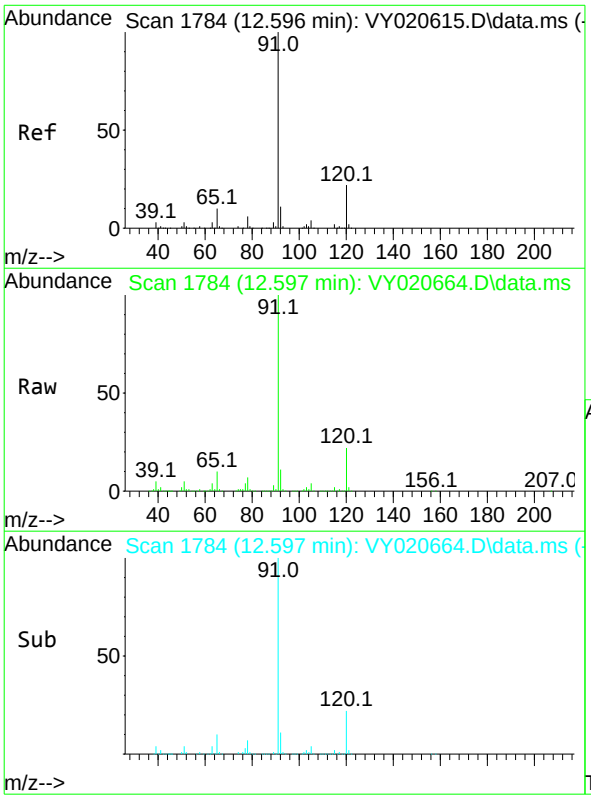
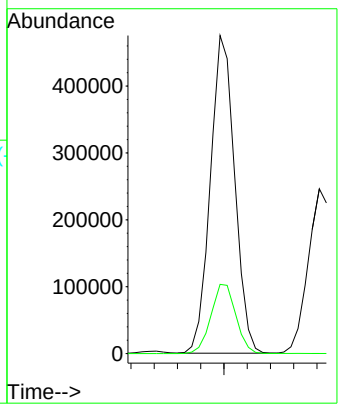
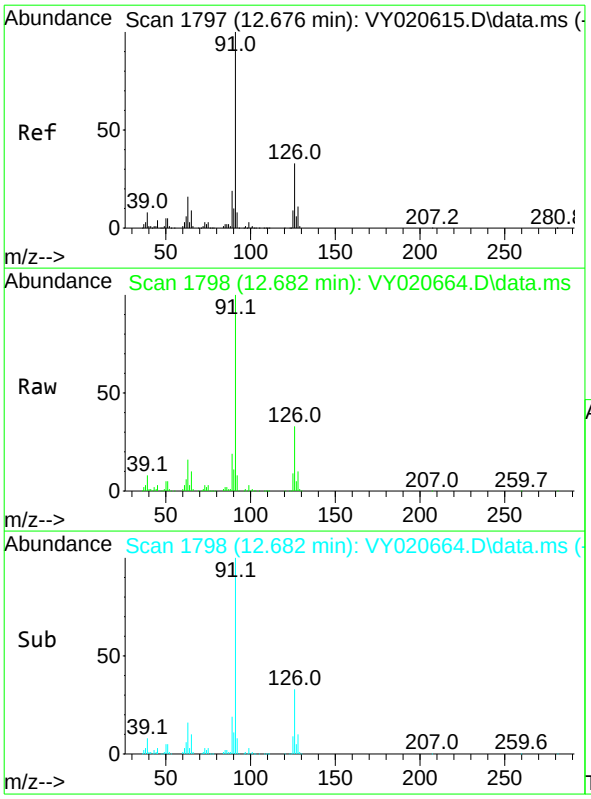



#78
n-propylbenzene
Concen: 55.107 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 91 Resp: 691545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.3 | 11.1 | 33.1 |

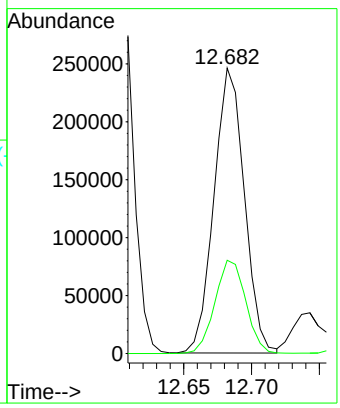





#79
2-Chlorotoluene
Concen: 54.188 ug/l
RT: 12.682 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 91 Resp: 382585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.2 | 16.6 | 49.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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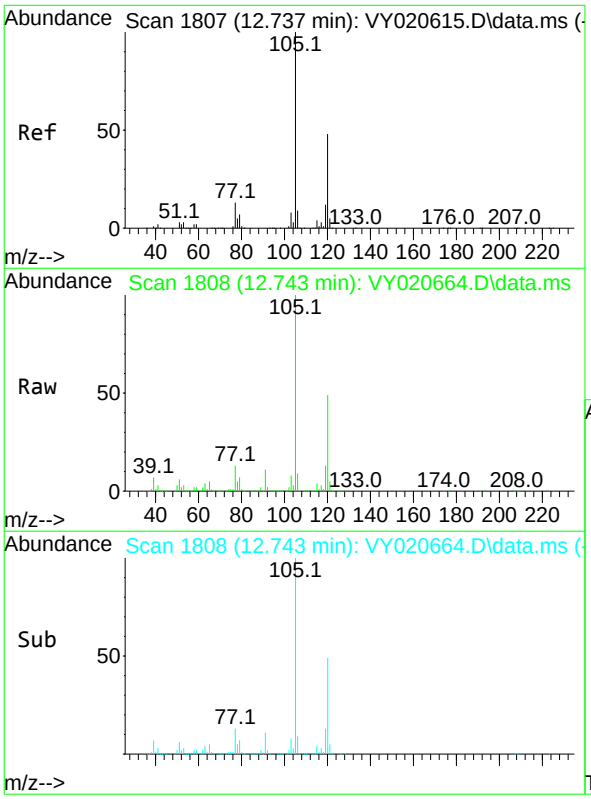
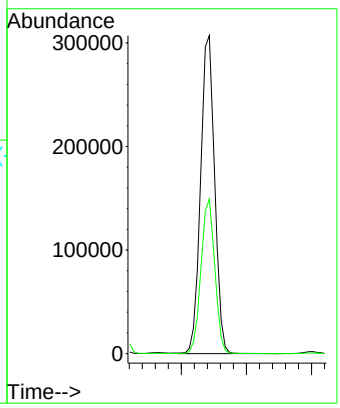
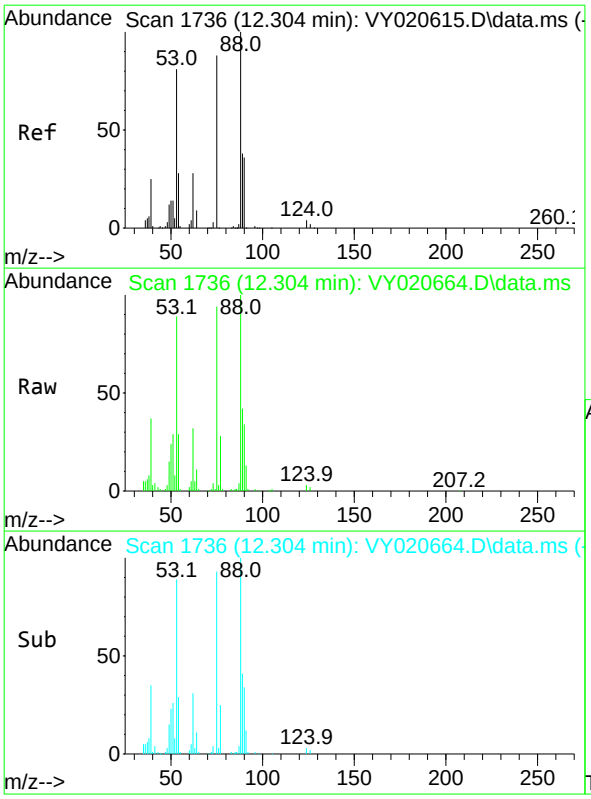



#80
1,3,5-Trimethylbenzene
Concen: 54.473 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:105 Resp: 460381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |

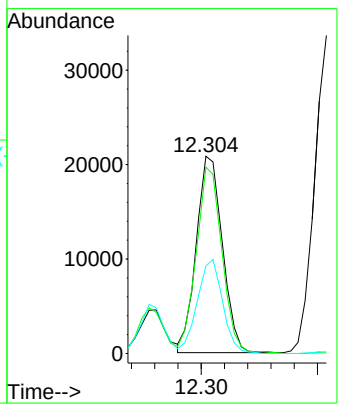





#81
trans-1,4-Dichloro-2-butene
Concen: 54.979 ug/l
RT: 12.304 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 75 Resp: 32476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.7 | 75.4 | 113.2 |
| 89 | 46.5 | 37.0 | 55.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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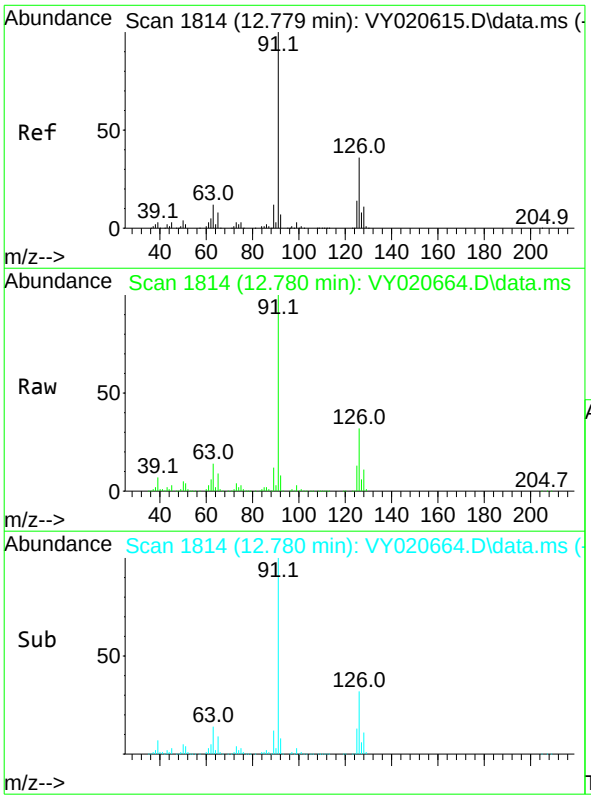
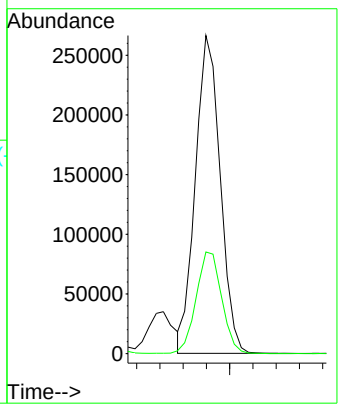
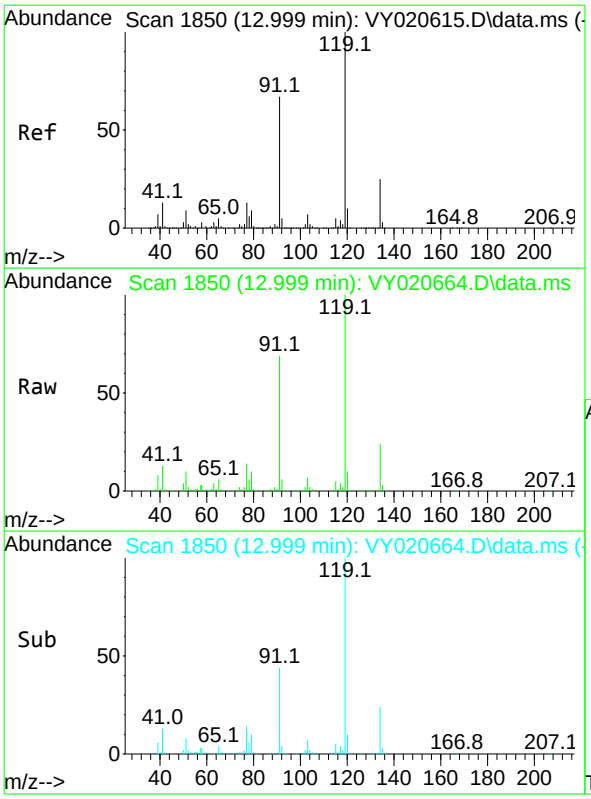



#82
4-Chlorotoluene
Concen: 53.864 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 91 Resp: 394546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.1 | 16.6 | 49.7 |

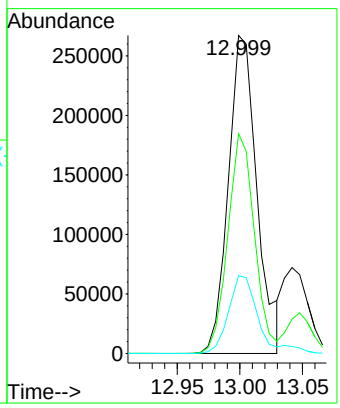





#83
tert-Butylbenzene
Concen: 55.644 ug/l
RT: 12.999 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:119 Resp: 425908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.4 | 32.9 | 98.6 |
| 134 | 25.5 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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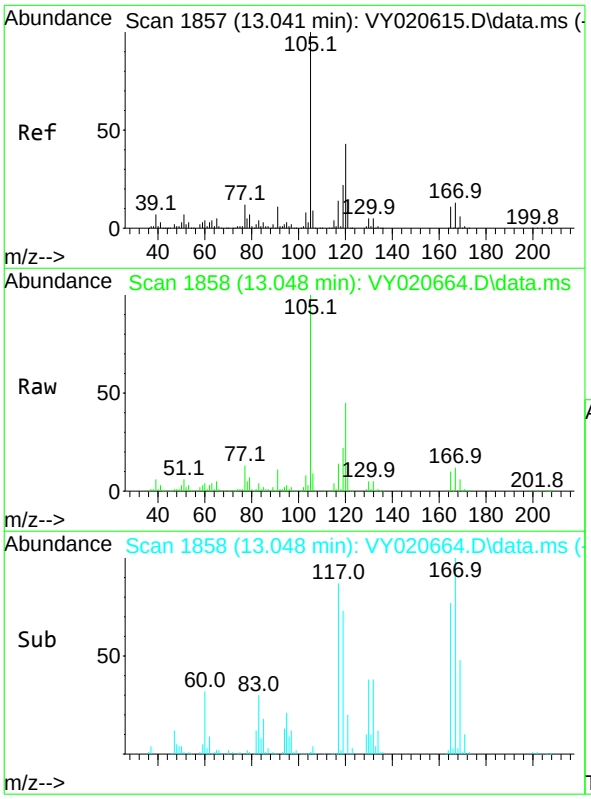
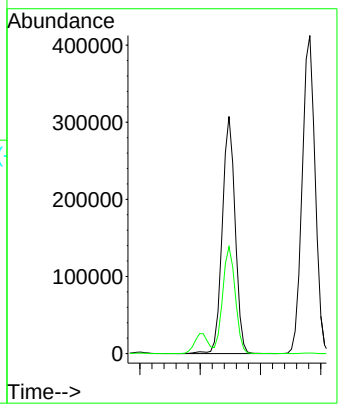
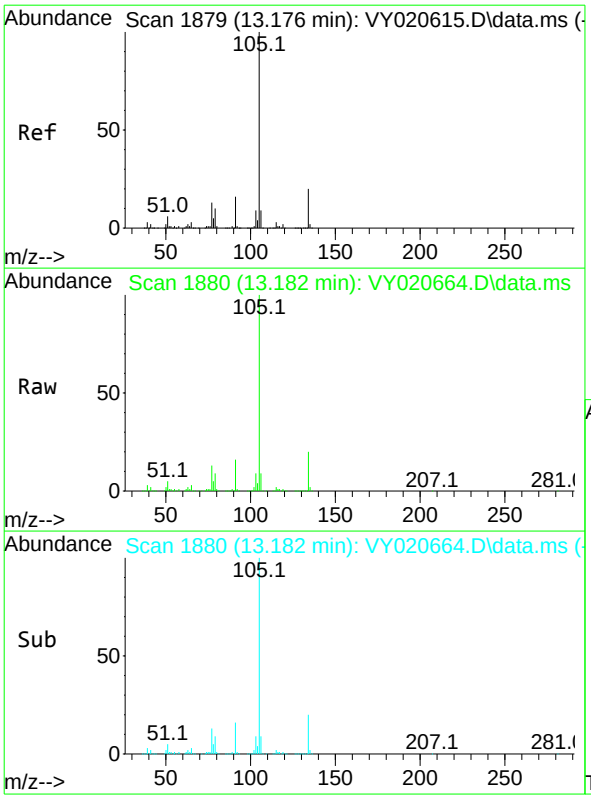



#84
1,2,4-Trimethylbenzene
Concen: 54.789 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:105 Resp: 454208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.2 | 21.8 | 65.4 |

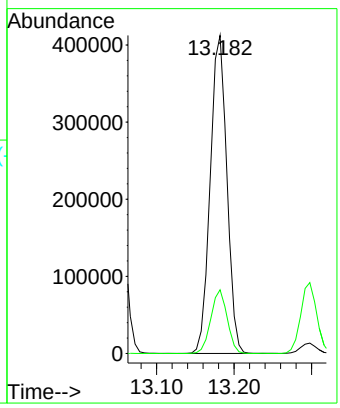





#85
sec-Butylbenzene
Concen: 55.289 ug/l
RT: 13.182 min Scan# 18
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:105 Resp: 615306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.6 | 10.0 | 30.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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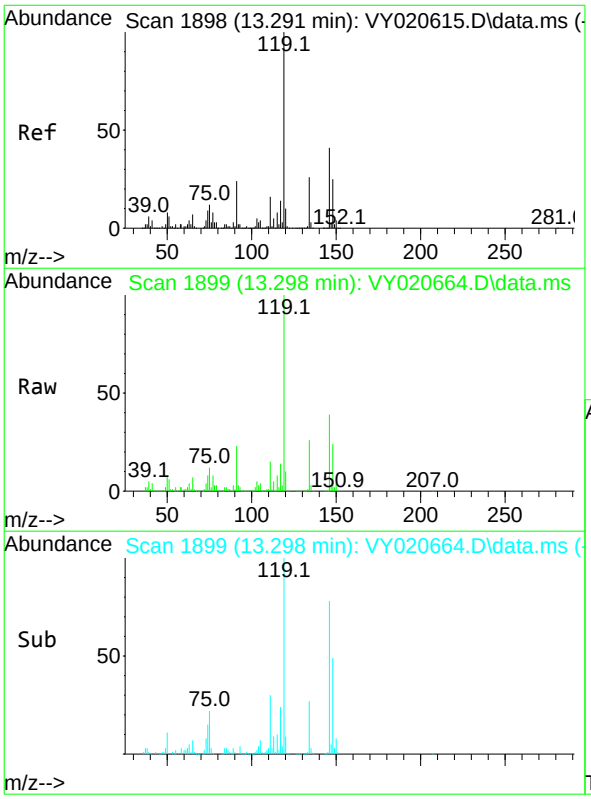
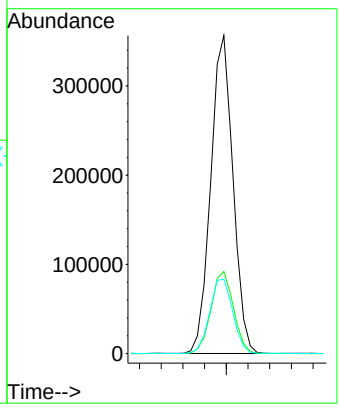
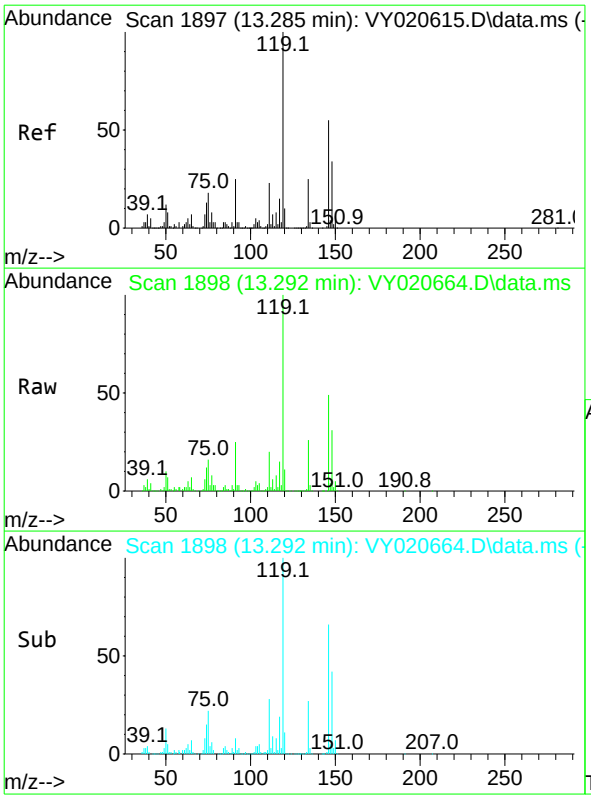



#86
p-Isopropyltoluene
Concen: 55.299 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:119 Resp: 507405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.1 | 12.9 | 38.6 |
| 91 | 24.5 | 12.1 | 36.3 |

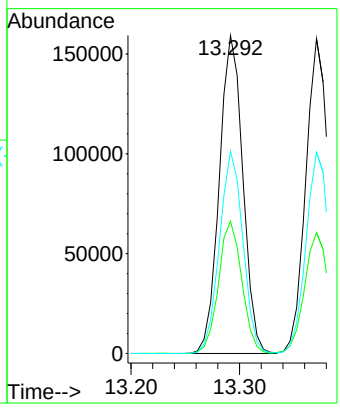





#87
1,3-Dichlorobenzene
Concen: 53.623 ug/l
RT: 13.292 min Scan# 18
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:146 Resp: 240167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.1 | 20.6 | 61.8 |
| 148 | 63.3 | 31.4 | 94.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**
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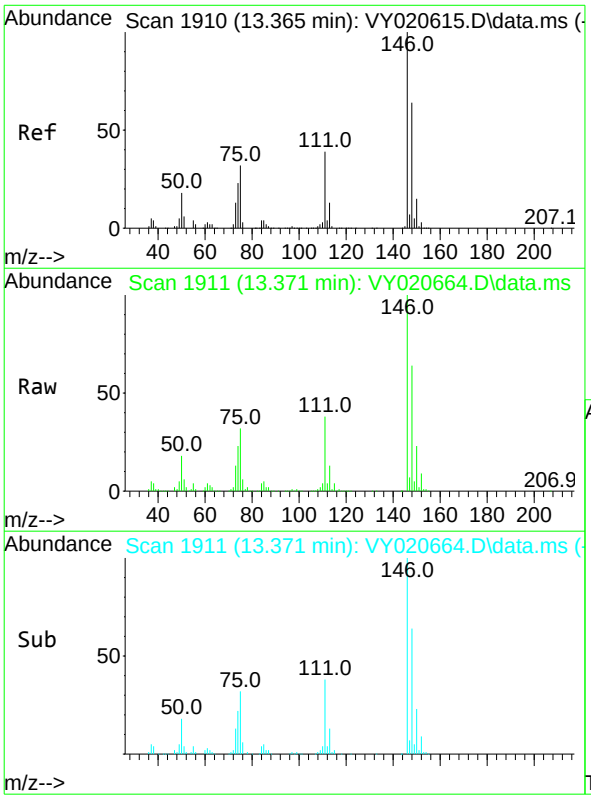
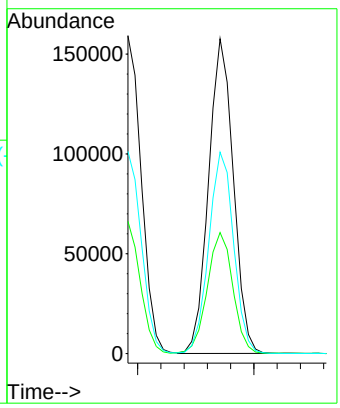
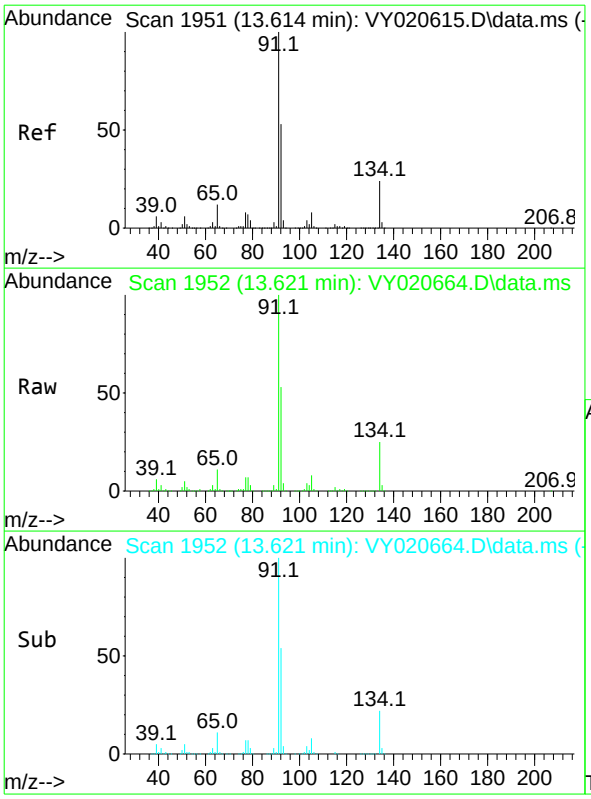



#88
1,4-Dichlorobenzene
Concen: 52.643 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:146 Resp: 233518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 19.6 | 58.7 |
| 148 | 64.3 | 31.9 | 95.5 |

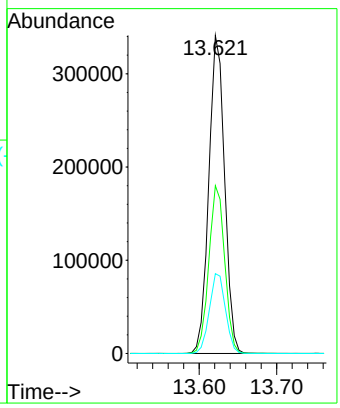





#89
n-Butylbenzene
Concen: 55.471 ug/l
RT: 13.621 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 91 Resp: 482377

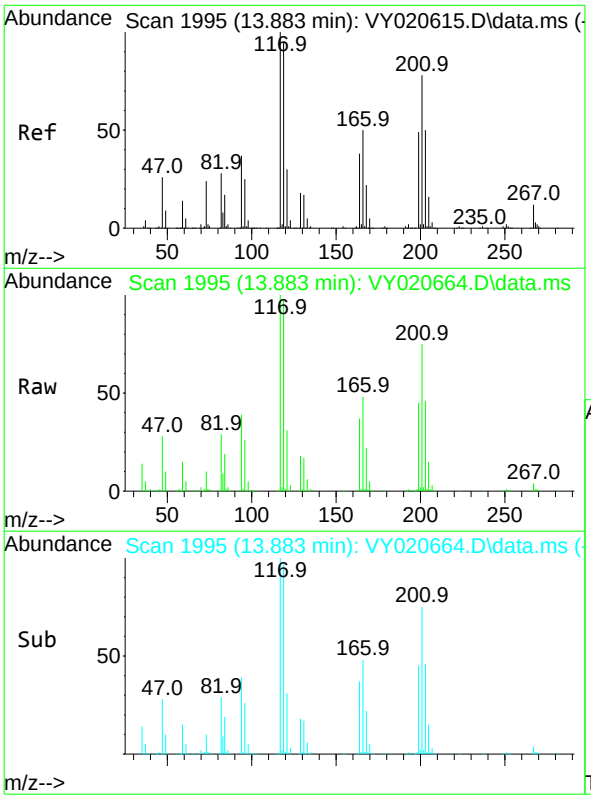
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.1 | 26.8 | 80.4 |
| 134 | 25.6 | 12.5 | 37.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

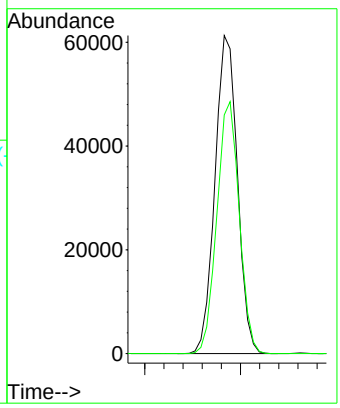
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

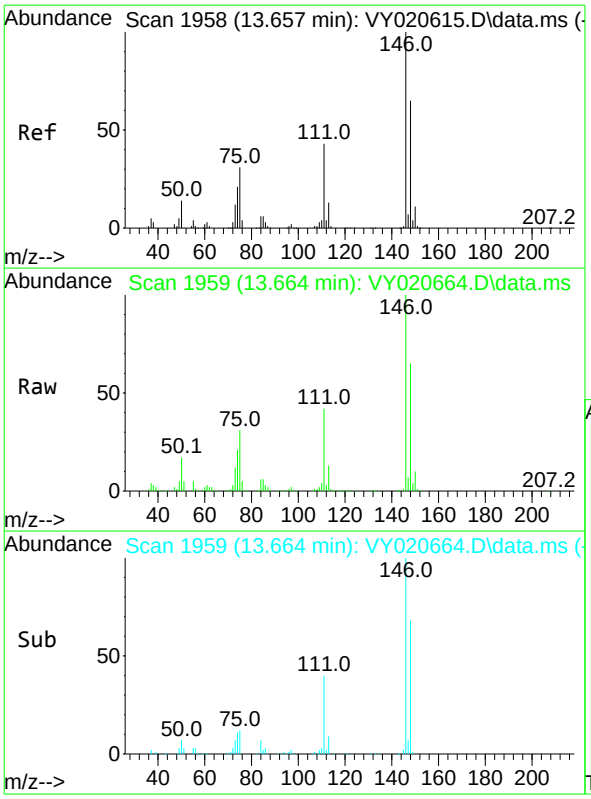



#90
Hexachloroethane
Concen: 54.904 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:117 Resp: 99835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.8 | 39.1 | 117.3 |

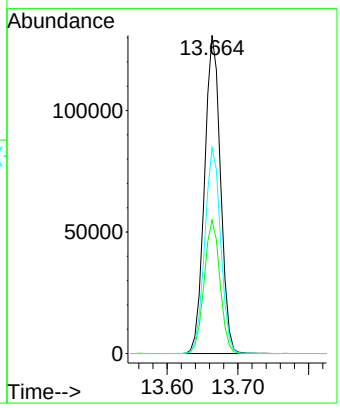





#91
1,2-Dichlorobenzene
Concen: 52.844 ug/l
RT: 13.664 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:146 Resp: 205065

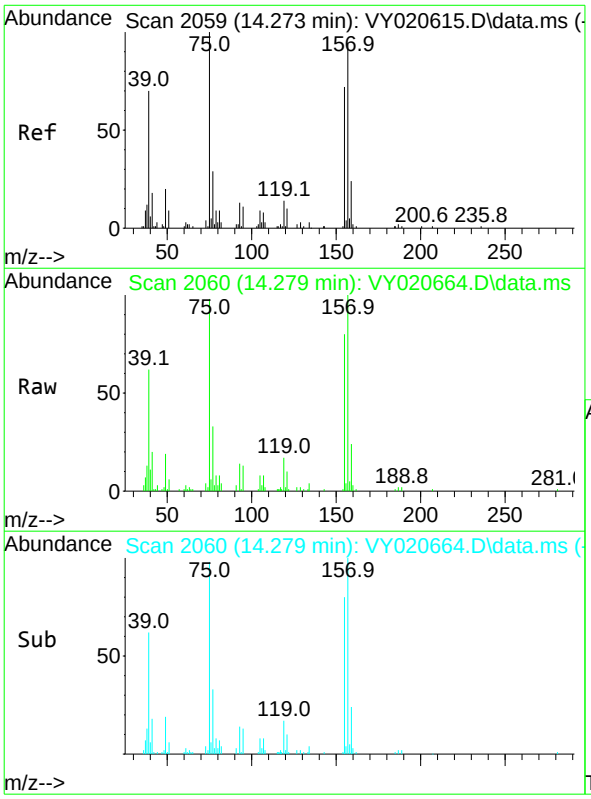
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.5 | 21.3 | 63.7 |
| 148 | 64.4 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

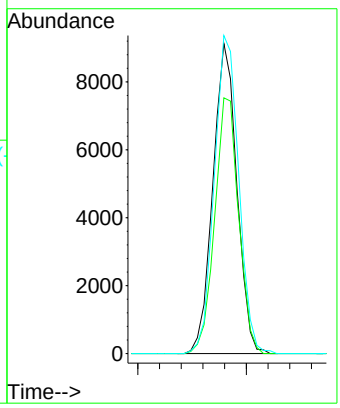
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

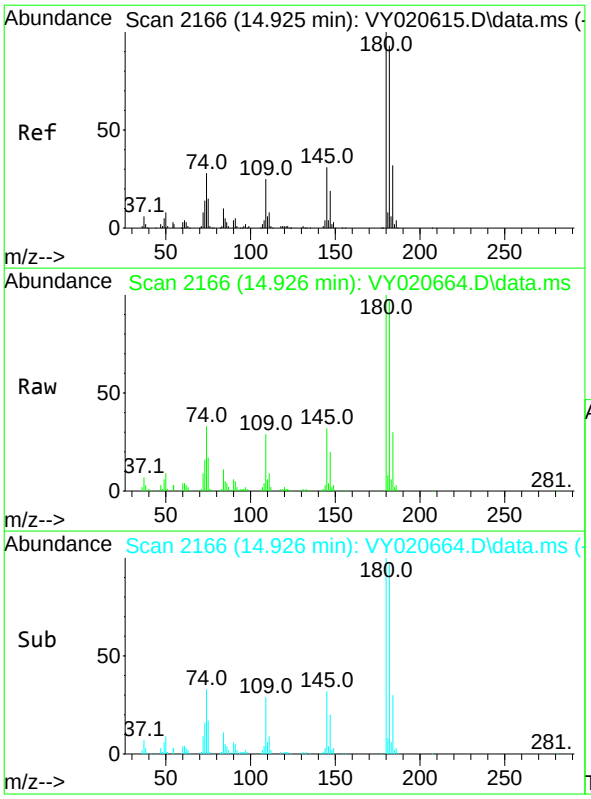



#92
1,2-Dibromo-3-Chloropropane
Concen: 50.926 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 75 Resp: 13979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.4 | 41.1 | 123.3 |
| 157 | 104.5 | 52.9 | 158.8 |

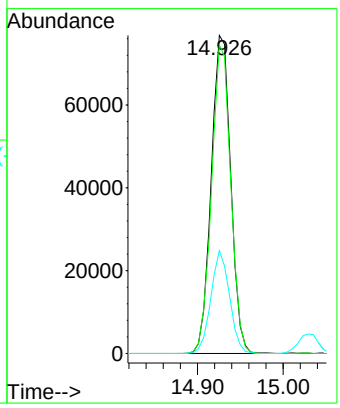





#93
1,2,4-Trichlorobenzene
Concen: 51.603 ug/l
RT: 14.926 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:180 Resp: 121126

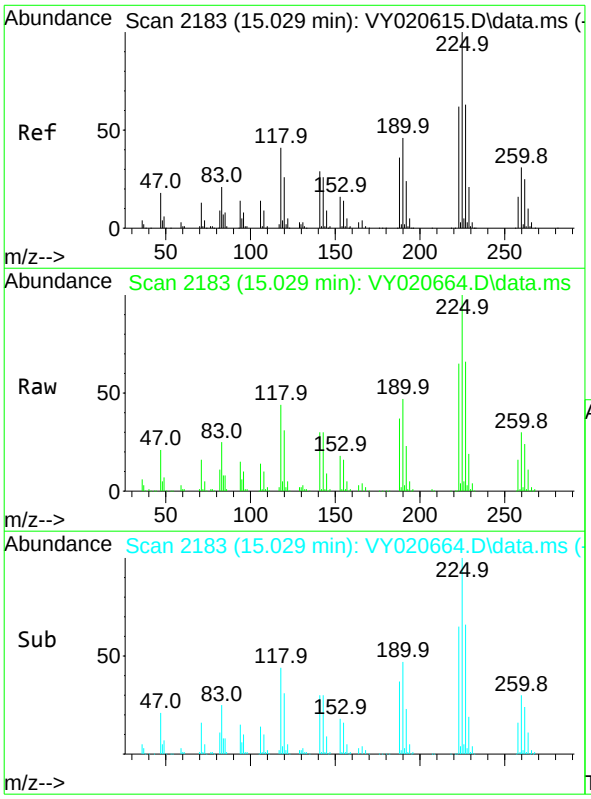
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.9 | 143.6 |
| 145 | 31.0 | 15.6 | 46.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

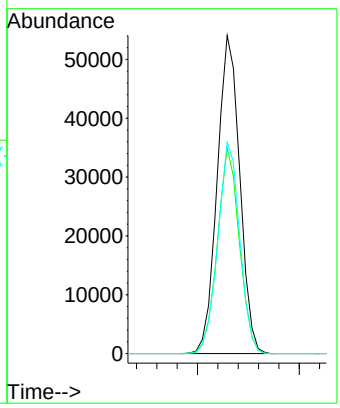
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

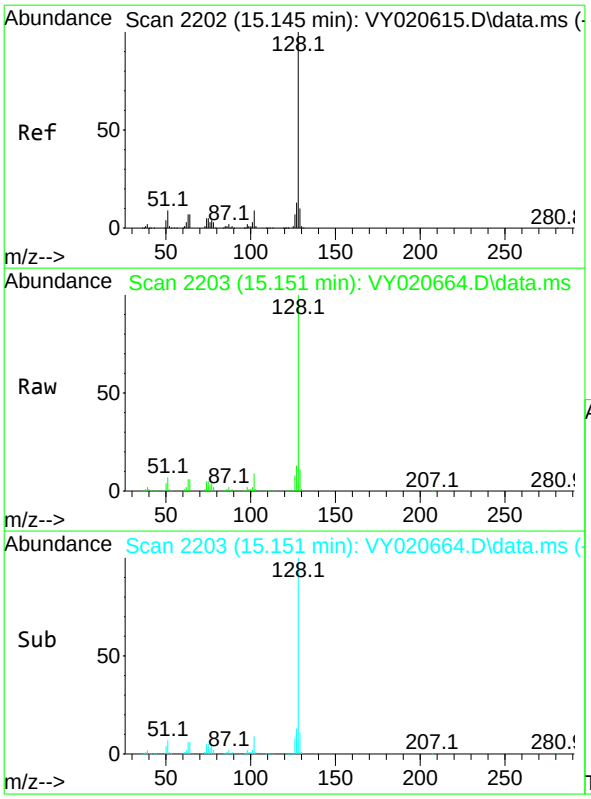



#94
Hexachlorobutadiene
Concen: 54.285 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:225 Resp: 83298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 31.8 | 95.3 |
| 227 | 64.6 | 32.2 | 96.6 |

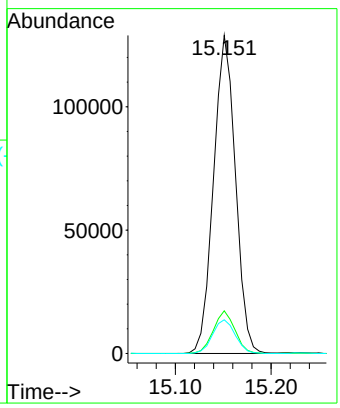





#95
Naphthalene
Concen: 50.926 ug/l
RT: 15.151 min Scan# 22
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:128 Resp: 204937

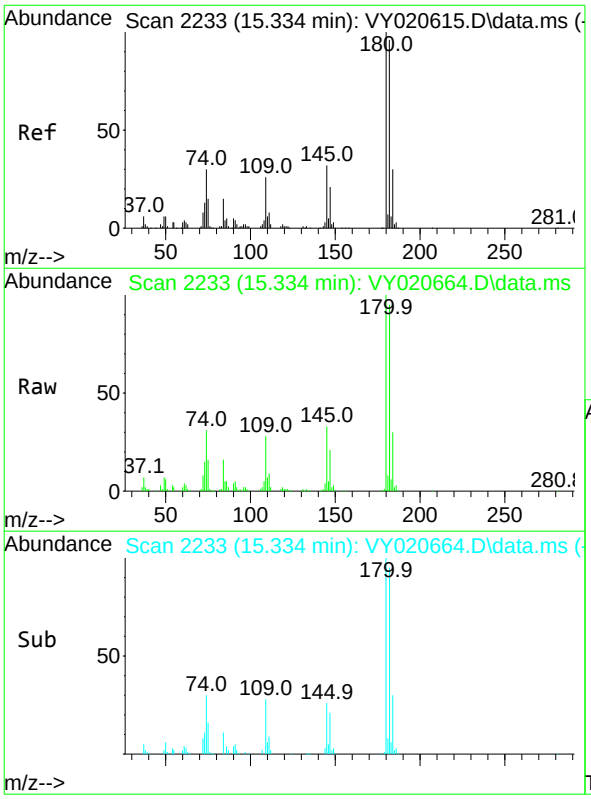
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.7 | 16.1 |
| 129 | 10.9 | 8.5 | 12.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

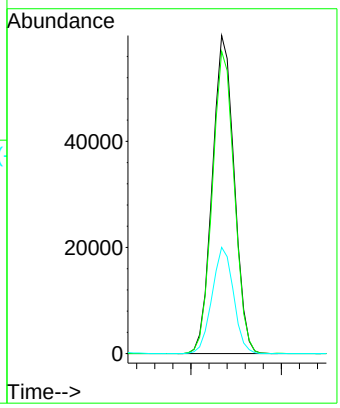
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024




#96
1,2,3-Trichlorobenzene
Concen: 50.866 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:180 Resp: 100879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 47.3 | 141.9 |
| 145 | 32.7 | 16.0 | 48.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.625 | 0.623 | 0.3 | 97 | 0.00 |
| 3 | P | Chloromethane | 0.463 | 0.405 | 12.5 | 91 | 0.00 |
| 4 | C | Vinyl Chloride | 0.431 | 0.372 | 13.7# | 96 | 0.00 |
| 5 | T | Bromomethane | 0.277 | 0.219 | 20.9 | 92 | 0.00 |
| 6 | T | Chloroethane | 0.266 | 0.215 | 19.2 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.901 | 0.877 | 2.7 | 106 | 0.00 |
| 8 | T | Diethyl Ether | 0.316 | 0.283 | 10.4 | 94 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.646 | 0.683 | -5.7 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 0.719 | 0.810 | -12.7 | 112 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.071 | 0.050 | 29.6# | 95 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.627 | 0.646 | -3.0# | 105 | 0.00 |
| 13 | T | Acrolein | 0.026 | 0.013 | 50.0# | 70 | 0.00 |
| 14 | T | Allyl chloride | 1.098 | 1.185 | -7.9 | 111 | 0.00 |
| 15 | T | Acrylonitrile | 0.151 | 0.154 | -2.0 | 96 | 0.01 |
| 16 | T | Acetone | 0.125 | 0.112 | 10.4 | 109 | 0.00 |
| 17 | T | Carbon Disulfide | 2.040 | 2.219 | -8.8 | 110 | 0.01 |
| 18 | T | Methyl Acetate | 0.373 | 0.402 | -7.8 | 110 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.618 | 1.677 | -3.6 | 97 | 0.00 |
| 20 | T | Methylene Chloride | 0.681 | 0.700 | -2.8 | 109 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.703 | 0.742 | -5.5 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 2.229 | 2.372 | -6.4 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 1.263 | 1.314 | -4.0 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.306 | 1.384 | -6.0 | 100 | 0.01 |
| 25 | T | 2-Butanone | 0.204 | 0.195 | 4.4 | 95 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.235 | 1.242 | -0.6 | 101 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.809 | 0.845 | -4.4 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 0.441 | 0.443 | -0.5 | 86 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.128 | 0.129 | -0.8 | 93 | 0.00 |
| 30 | C | Chloroform | 1.528 | 1.402 | 8.2# | 98 | 0.00 |
| 31 | T | Cyclohexane | 1.249 | 1.227 | 1.8 | 98 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.200 | 1.268 | -5.7 | 102 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.548 | 0.442 | 19.3 | 75 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.352 | 0.306 | 13.1 | 78 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.643 | 0.702 | -9.2 | 101 | 0.00 |
| 37 | T | Ethyl Acetate | 0.302 | 0.305 | -1.0 | 94 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.711 | 0.793 | -11.5 | 104 | 0.00 |
| 39 | T | Methylcyclohexane | 0.837 | 0.899 | -7.4 | 99 | 0.00 |
| 40 | TM | Benzene | 1.883 | 2.064 | -9.6 | 102 | 0.00 |
| 41 | T | Methacrylonitrile | 0.160 | 0.162 | -1.3 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.539 | -7.8 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.572 | 0.610 | -6.6 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 0.463 | 0.499 | -7.8 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.440 | 0.476 | -8.2# | 100 | 0.00 |
| 46 | T | Dibromomethane | 0.233 | 0.252 | -8.2 | 100 | 0.00 |
| 47 | T | Bromodichloromethane | 0.628 | 0.687 | -9.4 | 99 | 0.00 |
| 48 | T | Methyl methacrylate | 0.272 | 0.287 | -5.5 | 95 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 90 | 0.00 |
| 50 | S | Toluene-d8 | 1.233 | 1.077 | 12.7 | 77 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.302 | 0.310 | -2.6 | 95 | 0.00 |
| 52 | CM | Toluene | 1.170 | 1.291 | -10.3# | 101 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.586 | 0.636 | -8.5 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.694 | 0.769 | -10.8 | 100 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.308 | 0.334 | -8.4 | 101 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.446 | 0.485 | -8.7 | 97 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.548 | 0.595 | -8.6 | 98 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.188 | 0.201 | -6.9 | 107 | 0.00 |
| 59 | T | 2-Hexanone | 0.194 | 0.205 | -5.7 | 94 | 0.00 |
| 60 | T | Dibromochloromethane | 0.411 | 0.454 | -10.5 | 99 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.286 | 0.306 | -7.0 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.482 | 0.406 | 15.8 | 77 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 64 | T | Tetrachloroethene | 0.470 | 0.508 | -8.1 | 102 | 0.00 |
| 65 | PM | Chlorobenzene | 1.398 | 1.523 | -8.9 | 100 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.478 | 0.538 | -12.6 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 2.579 | 2.864 | -11.1# | 101 | 0.00 |
| 68 | T | m/p-Xylenes | 0.959 | 1.049 | -9.4 | 100 | 0.00 |
| 69 | T | o-Xylene | 0.895 | 0.981 | -9.6 | 99 | 0.00 |
| 70 | T | Styrene | 1.495 | 1.648 | -10.2 | 99 | 0.00 |
| 71 | P | Bromoform | 0.269 | 0.301 | -11.9 | 101 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 4.363 | 4.784 | -9.6 | 101 | 0.00 |
| 74 | T | N-amyl acetate | 1.021 | 1.063 | -4.1 | 91 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.708 | 0.759 | -7.2 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.519 | 0.526 | -1.3 | 92 | 0.00 |
| 77 | T | Bromobenzene | 0.950 | 1.018 | -7.2 | 99 | 0.00 |
| 78 | T | n-propylbenzene | 5.257 | 5.794 | -10.2 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.958 | 3.205 | -8.4 | 100 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.540 | 3.857 | -9.0 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.247 | 0.272 | -10.1 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.068 | 3.306 | -7.8 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.206 | 3.568 | -11.3 | 102 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.473 | 3.805 | -9.6 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.662 | 5.155 | -10.6 | 101 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.844 | 4.251 | -10.6 | 100 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.876 | 2.012 | -7.2 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.858 | 1.956 | -5.3 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 3.643 | 4.041 | -10.9 | 99 | 0.00 |
| 90 | T | Hexachloroethane | 0.762 | 0.836 | -9.7 | 100 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.626 | 1.718 | -5.7 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.115 | 0.117 | -1.7 | 95 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.983 | 1.015 | -3.3 | 92 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.643 | 0.698 | -8.6 | 97 | 0.00 |
| 95 | T | Naphthalene | 1.686 | 1.717 | -1.8 | 89 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.831 | 0.845 | -1.7 | 90 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 49.863 | 0.3 | 97 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 43.800 | 12.4 | 91 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 43.169 | 13.7# | 96 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 39.522 | 21.0 | 92 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 40.318 | 19.4 | 97 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 48.639 | 2.7 | 106 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 44.802 | 10.4 | 94 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 52.831 | -5.7 | 109 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 56.311 | -12.6 | 112 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 212.136 | 15.1 | 95 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 51.529 | -3.1# | 105 | 0.00 |
| 13 | T | Acrolein | 250.000 | 120.792 | 51.7# | 70 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 53.969 | -7.9 | 111 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 254.850 | -1.9 | 96 | 0.01 |
| 16 | T | Acetone | 250.000 | 256.402 | -2.6 | 109 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 54.380 | -8.8 | 110 | 0.01 |
| 18 | T | Methyl Acetate | 50.000 | 53.944 | -7.9 | 110 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 51.833 | -3.7 | 97 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.431 | -2.9 | 109 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 52.751 | -5.5 | 100 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 53.195 | -6.4 | 100 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 260.253 | -4.1 | 96 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 52.991 | -6.0 | 100 | 0.01 |
| 25 | T | 2-Butanone | 250.000 | 239.715 | 4.1 | 95 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 50.287 | -0.6 | 101 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.244 | -4.5 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 50.330 | -0.7 | 86 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 250.559 | -0.2 | 93 | 0.00 |
| 30 | C | Chloroform | 50.000 | 53.857 | -7.7# | 98 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 49.141 | 1.7 | 98 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 52.846 | -5.7 | 102 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 40.336 | 19.3 | 75 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 91 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 43.459 | 13.1 | 78 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 54.656 | -9.3 | 101 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.481 | -1.0 | 94 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 55.798 | -11.6 | 104 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 53.650 | -7.3 | 99 | 0.00 |
| 40 | TM | Benzene | 50.000 | 54.799 | -9.6 | 102 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 50.789 | -1.6 | 96 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 53.978 | -8.0 | 99 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 53.344 | -6.7 | 96 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 53.915 | -7.8 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 54.113 | -8.2# | 100 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 54.086 | -8.2 | 100 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 54.644 | -9.3 | 99 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 52.772 | -5.5 | 95 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 981.949 | 1.8 | 90 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 43.661 | 12.7 | 77 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 256.228 | -2.5 | 95 | 0.00 |
| 52 | CM | Toluene | 50.000 | 55.159 | -10.3# | 101 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 54.306 | -8.6 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 55.407 | -10.8 | 100 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 54.290 | -8.6 | 101 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 54.394 | -8.8 | 97 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 54.257 | -8.5 | 98 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 268.265 | -7.3 | 107 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 263.689 | -5.5 | 94 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 55.226 | -10.5 | 99 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 53.496 | -7.0 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 42.036 | 15.9 | 77 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 91 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 53.958 | -7.9 | 102 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 54.474 | -8.9 | 100 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 56.252 | -12.5 | 103 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 55.519 | -11.0# | 101 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 109.344 | -9.3 | 100 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 54.792 | -9.6 | 99 | 0.00 |
| 70 | T | Styrene | 50.000 | 55.127 | -10.3 | 99 | 0.00 |
| 71 | P | Bromoform | 50.000 | 55.908 | -11.8 | 101 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 54.823 | -9.6 | 101 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 52.048 | -4.1 | 91 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 53.553 | -7.1 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 50.593 | -1.2 | 92 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 53.559 | -7.1 | 99 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 55.107 | -10.2 | 101 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 54.188 | -8.4 | 100 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 54.473 | -8.9 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 54.979 | -10.0 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 53.864 | -7.7 | 99 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 55.644 | -11.3 | 102 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 54.789 | -9.6 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 55.289 | -10.6 | 101 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 55.299 | -10.6 | 100 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 53.623 | -7.2 | 99 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 52.643 | -5.3 | 98 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 55.471 | -10.9 | 99 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 54.904 | -9.8 | 100 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 52.844 | -5.7 | 98 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 50.926 | -1.9 | 95 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 51.603 | -3.2 | 92 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 54.285 | -8.6 | 97 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 50.926 | -1.9 | 89 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 50.866 | -1.7 | 90 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date/Time: 12/20/2024 19:35

Lab File ID: VY020682.D Init. Calib. Date(s): 12/17/2024 12/17/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 10:01 14:51

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Vinyl Chloride | 0.431 | 0.262 | | -39.21 | 50 |
| 1,1-Dichloroethene | 0.627 | 0.500 | | -20.25 | 50 |
| Acetone | 0.125 | 0.087 | | -30.4 | 50 |
| Methyl tert-butyl Ether | 1.618 | 1.685 | | 4.14 | 50 |
| Methylene Chloride | 0.681 | 0.659 | | -3.23 | 50 |
| trans-1,2-Dichloroethene | 0.703 | 0.713 | | 1.42 | 50 |
| 1,1-Dichloroethane | 1.306 | 1.366 | 0.1 | 4.59 | 50 |
| 2-Butanone | 0.204 | 0.202 | | -0.98 | 50 |
| Carbon Tetrachloride | 0.711 | 0.692 | | -2.67 | 50 |
| cis-1,2-Dichloroethene | 0.809 | 0.836 | | 3.34 | 50 |
| Chloroform | 1.528 | 1.423 | | -6.87 | 50 |
| 1,1,1-Trichloroethane | 1.200 | 1.204 | | 0.33 | 50 |
| Benzene | 1.883 | 1.905 | | 1.17 | 50 |
| 1,2-Dichloroethane | 0.500 | 0.515 | | 3 | 50 |
| Trichloroethene | 0.463 | 0.463 | | 0 | 50 |
| Toluene | 1.170 | 1.198 | | 2.39 | 50 |
| Tetrachloroethene | 0.470 | 0.443 | | -5.74 | 50 |
| Chlorobenzene | 1.398 | 1.409 | 0.3 | 0.79 | 50 |
| Ethyl Benzene | 2.579 | 2.542 | | -1.43 | 50 |
| m/p-Xylenes | 0.959 | 0.944 | | -1.56 | 50 |
| o-Xylene | 0.895 | 0.891 | | -0.45 | 50 |
| n-propylbenzene | 5.257 | 4.958 | | -5.69 | 50 |
| tert-Butylbenzene | 3.206 | 3.020 | | -5.8 | 50 |
| 1,2,4-Trimethylbenzene | 3.473 | 3.335 | | -3.97 | 50 |
| sec-Butylbenzene | 4.662 | 4.327 | | -7.19 | 50 |
| 1,3-Dichlorobenzene | 1.876 | 1.803 | | -3.89 | 50 |
| 1,4-Dichlorobenzene | 1.858 | 1.784 | | -3.98 | 50 |
| n-Butylbenzene | 3.643 | 3.417 | | -6.2 | 50 |
| 1,2-Dichlorobenzene | 1.626 | 1.586 | | -2.46 | 50 |
| 1,2-Dichloroethane-d4 | 0.548 | 0.472 | | -13.87 | 50 |
| Dibromofluoromethane | 0.352 | 0.311 | | -11.65 | 50 |
| Toluene-d8 | 1.233 | 1.049 | | -14.92 | 50 |
| 4-Bromofluorobenzene | 0.482 | 0.406 | | -15.77 | 50 |
| 1,4-Dioxane | 2.668 | 2.853 | 0.05 | 6.93 | 50 |

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_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 143833 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 225180 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 204671 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 118027 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 67912 | 43.111 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 86.220% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 70081 | 44.159 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 88.320% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 236316 | 42.543 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 85.080% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 91351 | 42.042 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 84.080% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 81747 | 45.502 | ug/l | 95 |
| 3) Chloromethane | 2.068 | 50 | 58949 | 44.285 | ug/l | 95 |
| 4) Vinyl Chloride | 2.202 | 62 | 37701 | 30.430 | ug/l | 97 |
| 5) Bromomethane | 2.598 | 94 | 27270 | 34.241 | ug/l | 96 |
| 6) Chloroethane | 2.733 | 64 | 23852 | 31.154 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 97429 | 37.582 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 38091 | 41.896 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 72820 | 39.189 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 89063 | 43.050 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 36300 | 213.879 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 71932 | 39.896 | ug/l | 95 |
| 13) Acrolein | 3.653 | 56 | 10852 | 145.691 | ug/l | 100 |
| 14) Allyl chloride | 4.385 | 41 | 138460 | 43.827 | ug/l | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 114092 | 262.307 | ug/l | 98 |
| 16) Acetone | 3.873 | 43 | 62589 | 198.675 | ug/l | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 240927 | 41.052 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 49816 | 46.480 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 242425 | 52.095 | ug/l | 98 |
| 20) Methylene Chloride | 4.616 | 84 | 94785 | 48.394 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 102508 | 50.685 | ug/l | 94 |
| 22) Diisopropyl ether | 6.025 | 45 | 337414 | 52.616 | ug/l | 99 |
| 23) Vinyl Acetate | 5.964 | 43 | 967217 | 266.302 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 196407 | 52.280 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 145082 | 247.823 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 162135 | 45.653 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 120298 | 51.699 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 82386 | 65.015 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 99121 | 268.209 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 204738 | 54.780 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 159093 | 44.289 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 173221 | 50.188 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 140911 | 48.693 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 68879 | 50.601 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 155919 | 48.699 | ug/l | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 165792 | 43.957 | ug/l | 95 |
| 40) Benzene | 8.079 | 78 | 429017 | 50.578 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 35040 | 48.692 ug/l # | 91 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 116059 | 51.589 ug/l | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 132653 | 51.476 ug/l # | 87 |
| 44) Trichloroethene | 8.866 | 130 | 104350 | 50.065 ug/l | 97 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 102993 | 51.953 ug/l | 97 |
| 46) Dibromomethane | 9.231 | 93 | 55249 | 52.734 ug/l | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 148983 | 52.643 ug/l | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 64336 | 52.516 ug/l | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 12848 | 1069.318 ug/l | 92 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 347100 | 255.175 ug/l | 100 |
| 52) Toluene | 10.170 | 92 | 269709 | 51.164 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 137082 | 51.983 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 161185 | 51.582 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 72252 | 52.160 ug/l | 94 |
| 56) Ethyl methacrylate | 10.438 | 69 | 106862 | 53.177 ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 129720 | 52.533 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 269274 | 318.460 ug/l | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 232450 | 266.163 ug/l | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 98561 | 53.204 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 67268 | 52.208 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 90723 | 47.125 ug/l | 94 |
| 65) Chlorobenzene | 11.444 | 112 | 288406 | 50.396 ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 100036 | 51.120 ug/l | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 520329 | 49.283 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 386215 | 98.385 ug/l | 99 |
| 69) o-Xylene | 11.957 | 106 | 182369 | 49.791 ug/l | 99 |
| 70) Styrene | 11.969 | 104 | 308084 | 50.345 ug/l | 99 |
| 71) Bromoform | 12.133 | 173 | 57006 | 51.813 ug/l # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 488221 | 47.402 ug/l | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 119742 | 49.676 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 85524 | 51.155 ug/l | 97 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 62789m | 51.211 ug/l | |
| 77) Bromobenzene | 12.530 | 156 | 111242 | 49.582 ug/l | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 585185 | 47.158 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 337195 | 48.298 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 398582 | 47.693 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 29107 | 49.831 ug/l | 99 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 346496 | 47.838 ug/l | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 356447 | 47.095 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 393582 | 48.012 ug/l | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 510662 | 46.404 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 429462 | 47.333 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 212764 | 48.040 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 210538 | 47.998 ug/l | 100 |
| 89) n-Butylbenzene | 13.621 | 91 | 403246 | 46.895 ug/l | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 86293 | 47.992 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 187168 | 48.776 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 12831 | 47.271 ug/l | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 111082 | 47.858 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 73289 | 48.301 ug/l | 98 |
| 95) Naphthalene | 15.145 | 128 | 201284 | 50.583 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 95931 | 48.917 ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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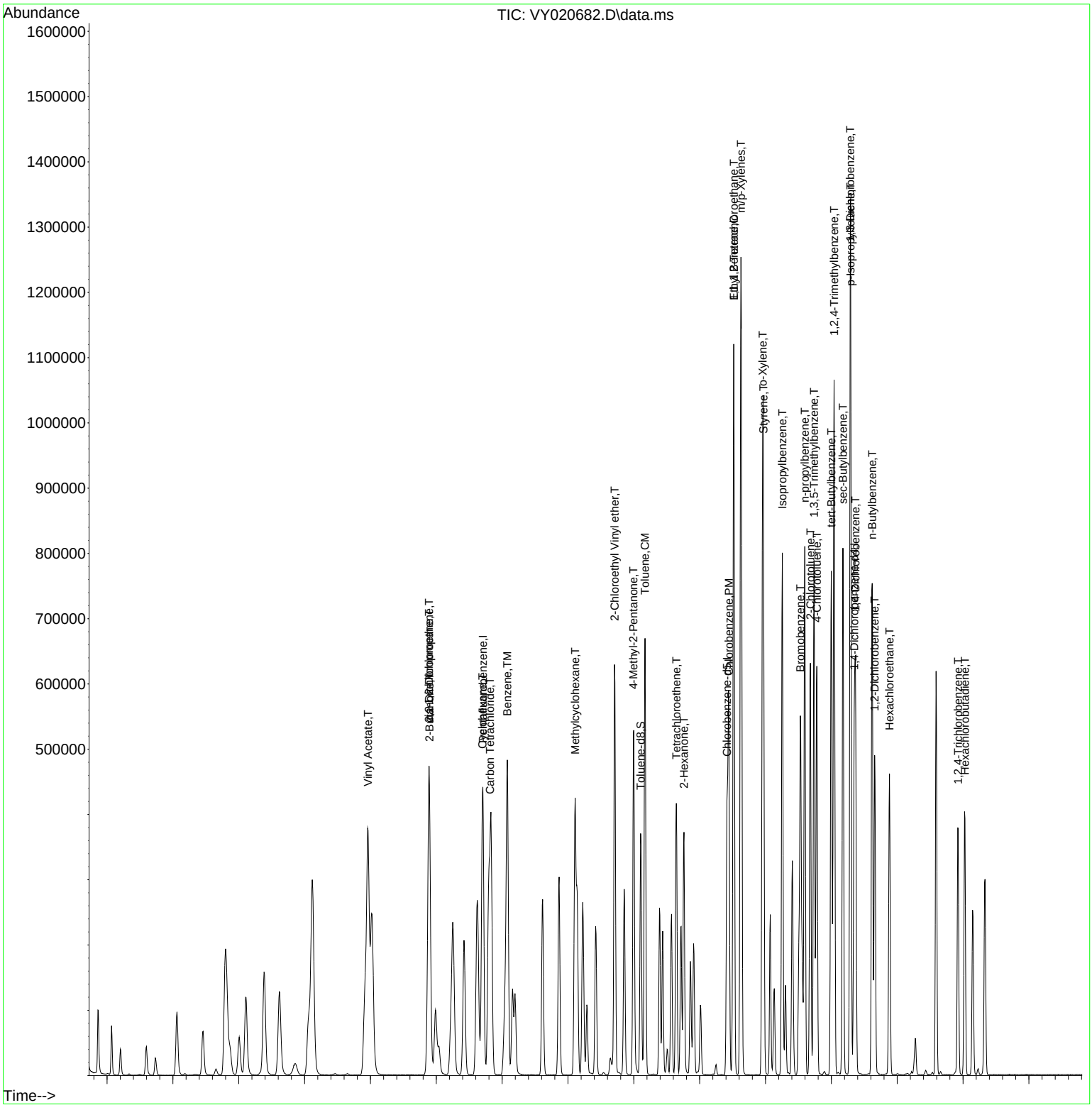
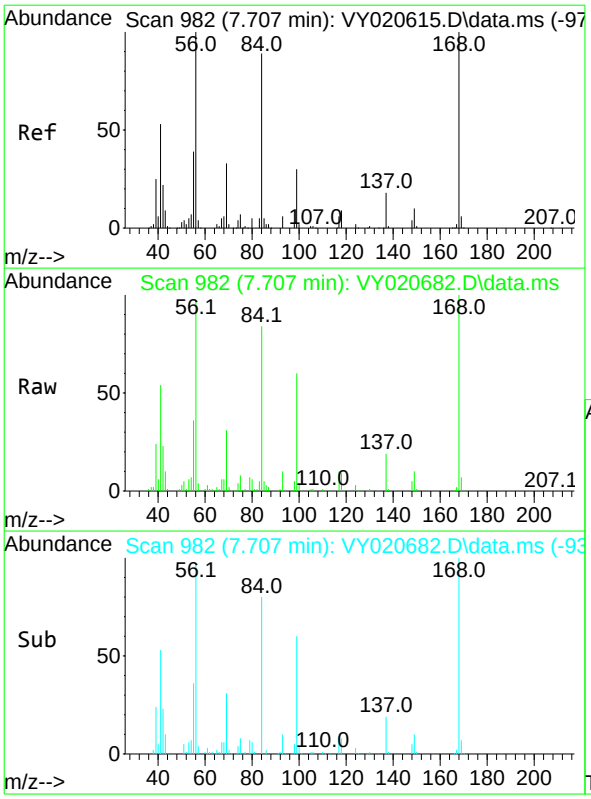
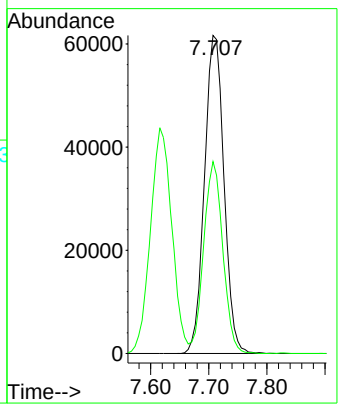





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:168 Resp: 143833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.3 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

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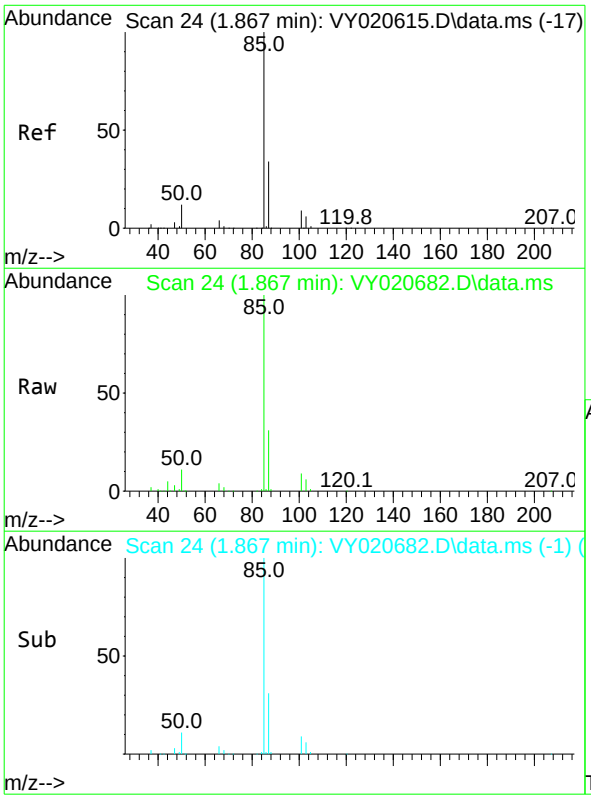
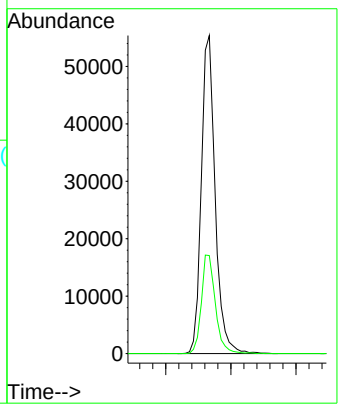
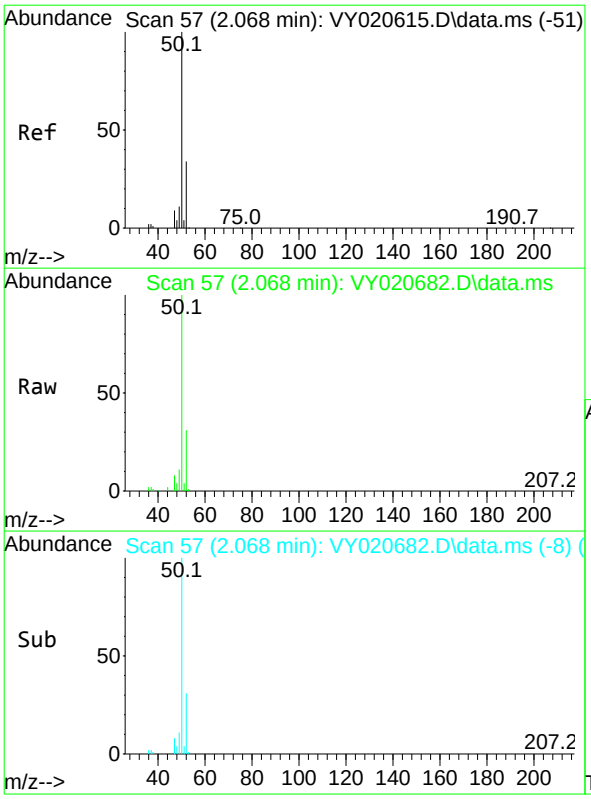



#2
Dichlorodifluoromethane
Concen: 45.502 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 85 Resp: 81747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.8 | 16.8 | 50.3 |

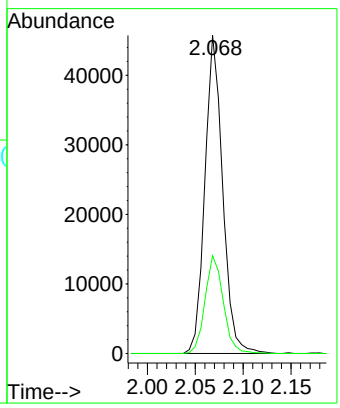





#3
Chloromethane
Concen: 44.285 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 50 Resp: 58949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.8 | 26.8 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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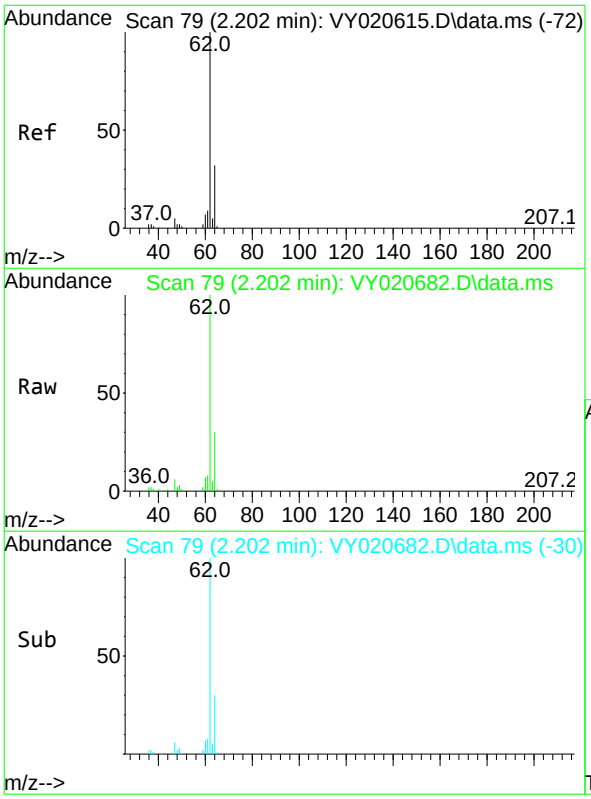
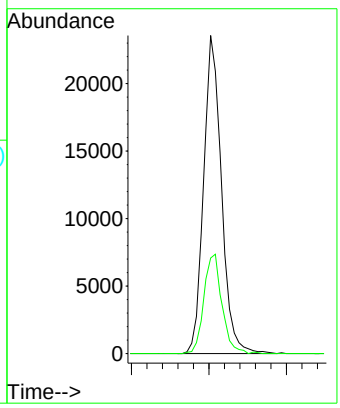
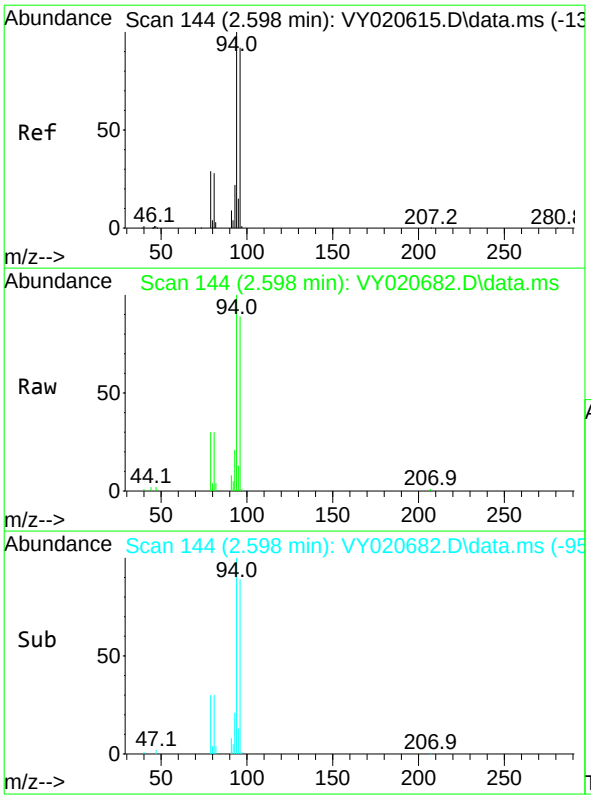



#4
Vinyl Chloride
Concen: 30.430 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 62 Resp: 37701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.1 | 25.3 | 37.9 |

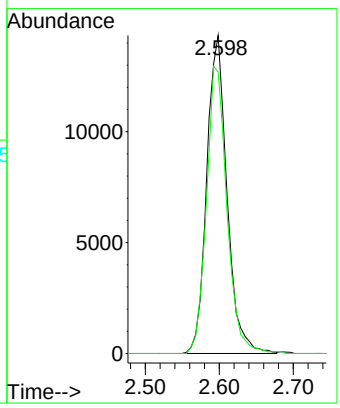





#5
Bromomethane
Concen: 34.241 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 94 Resp: 27270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.6 | 73.8 | 110.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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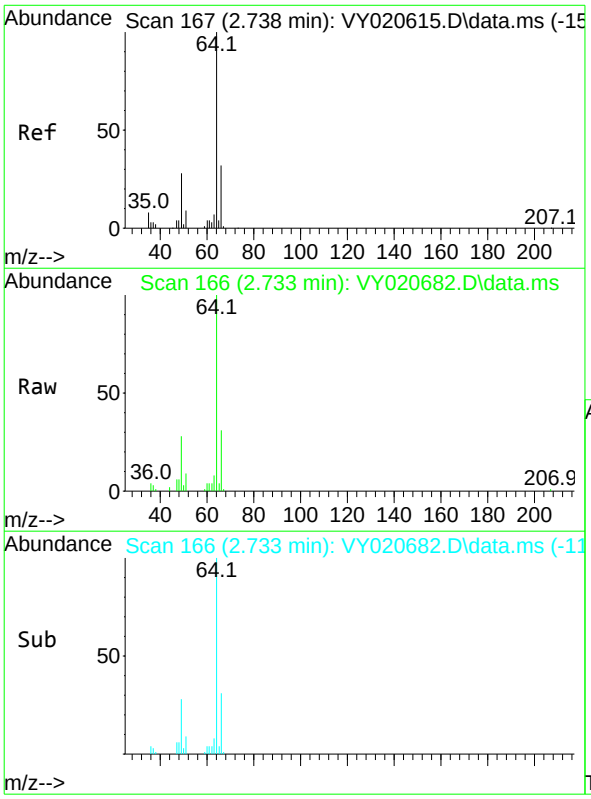
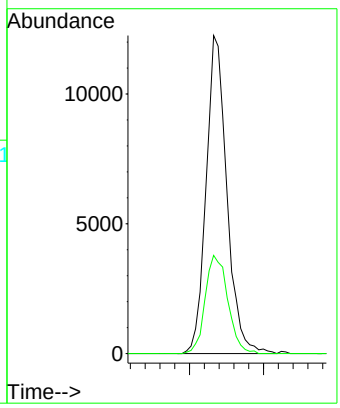
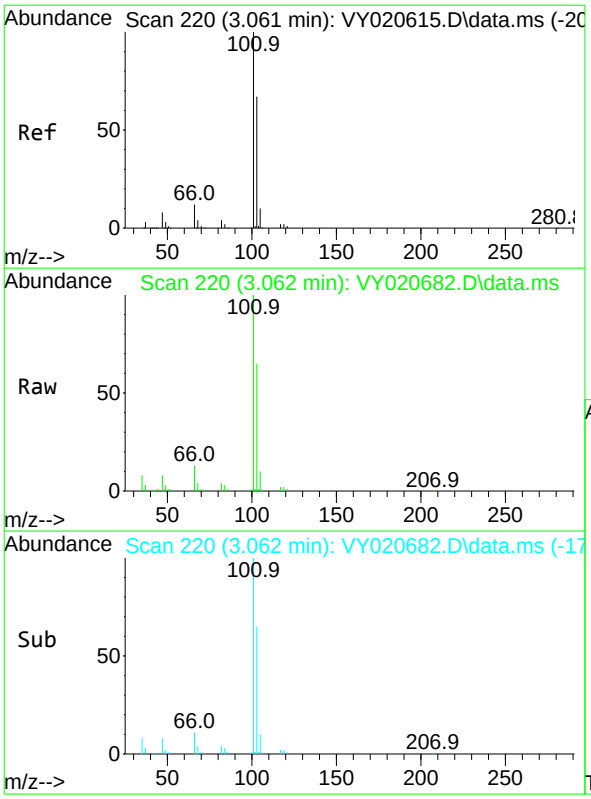



#6
Chloroethane
Concen: 31.154 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 64 Resp: 23852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.9 | 25.8 | 38.6 |

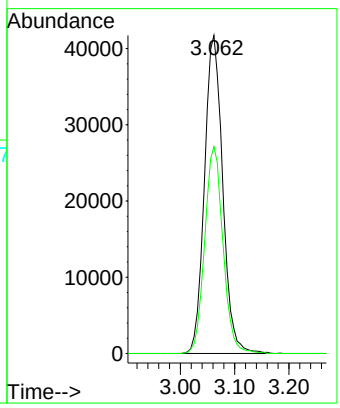





#7
Trichlorofluoromethane
Concen: 37.582 ug/l
RT: 3.062 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:101 Resp: 97429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.0 | 53.4 | 80.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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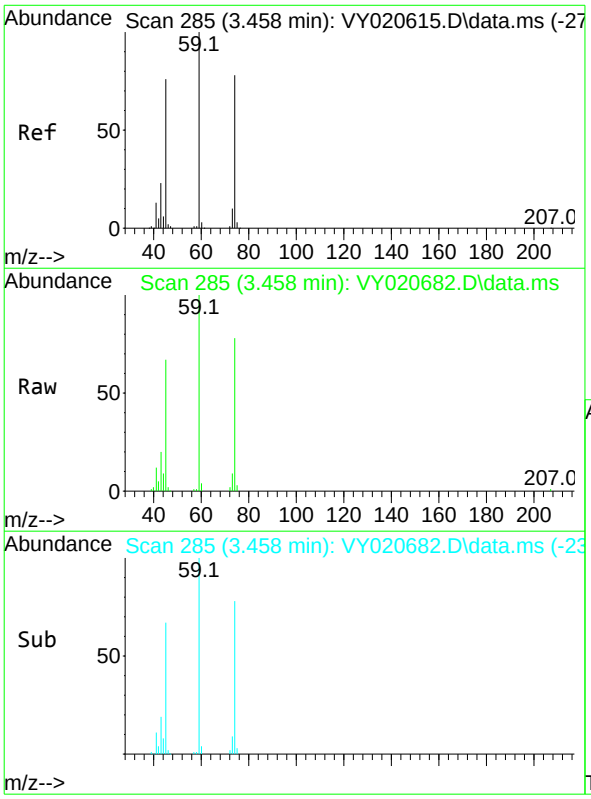
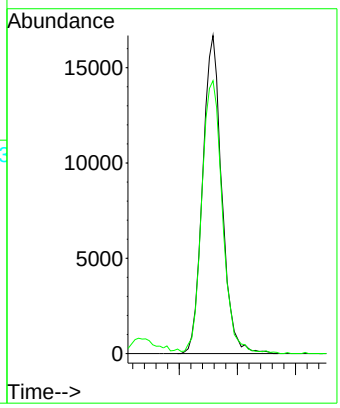
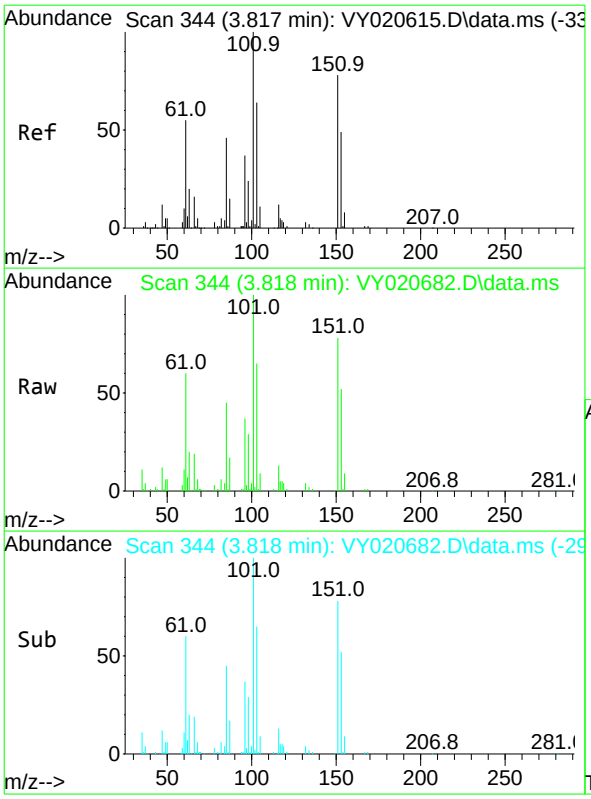



#8
Diethyl Ether
Concen: 41.896 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 74 Resp: 38091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.0 | 49.0 | 147.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 39.189 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:101 Resp: 72820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.8 | 36.6 | 54.8 |
| 151 | 77.5 | 61.5 | 92.3 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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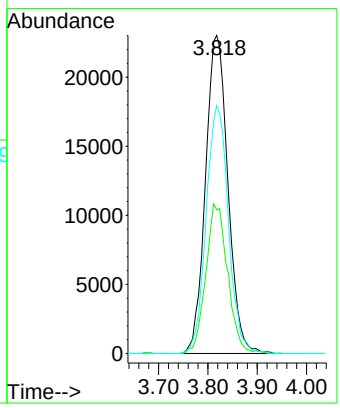
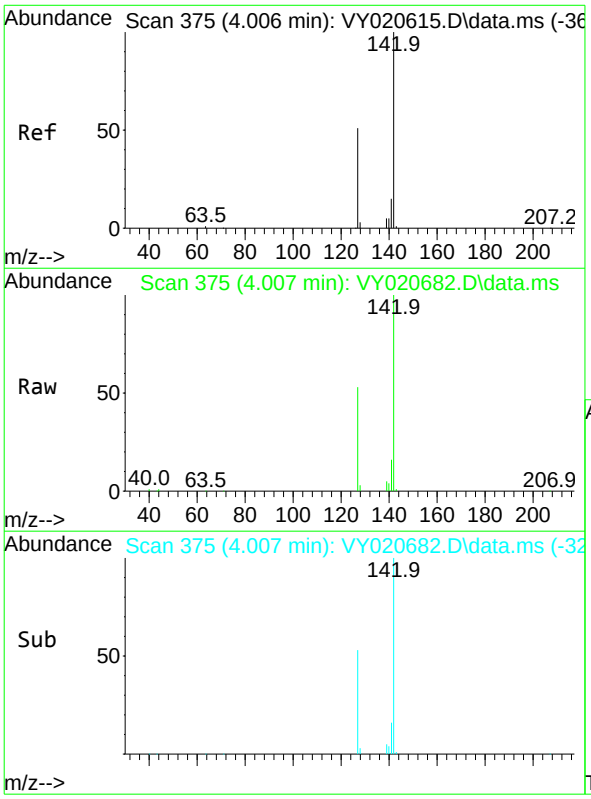
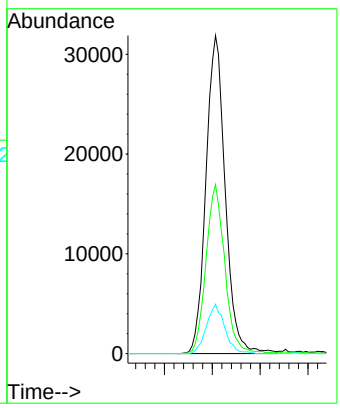


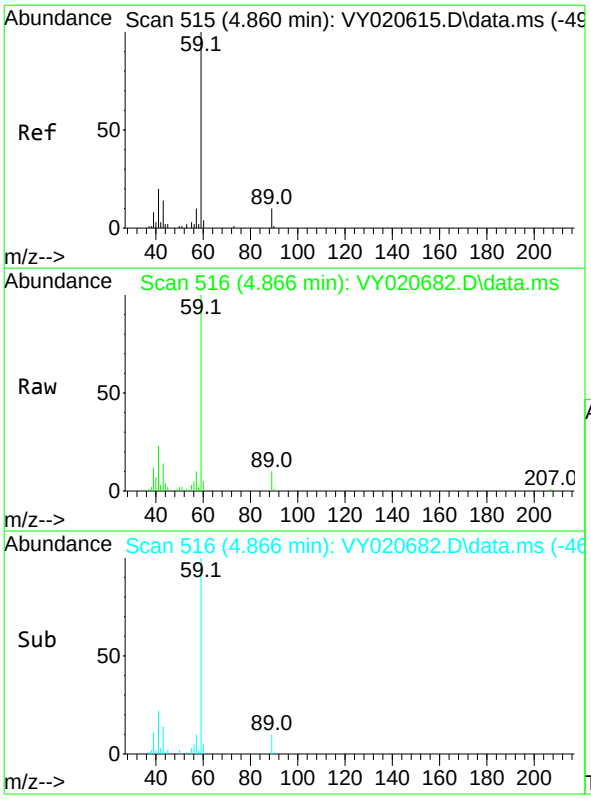




#10
Methyl Iodide
Concen: 43.050 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:142 Resp: 89063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 51.8 | 40.6 | 61.0 |
| 141 | 14.8 | 11.7 | 17.5 |

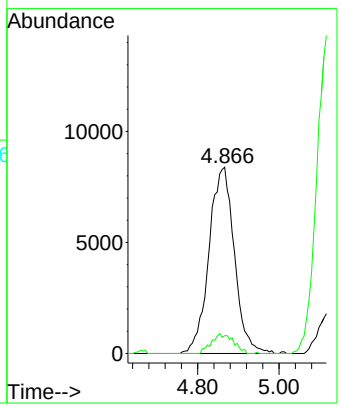





#11
Tert butyl alcohol
Concen: 213.879 ug/l
RT: 4.866 min Scan# 51
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 59 Resp: 36300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.2 | 7.4 | 11.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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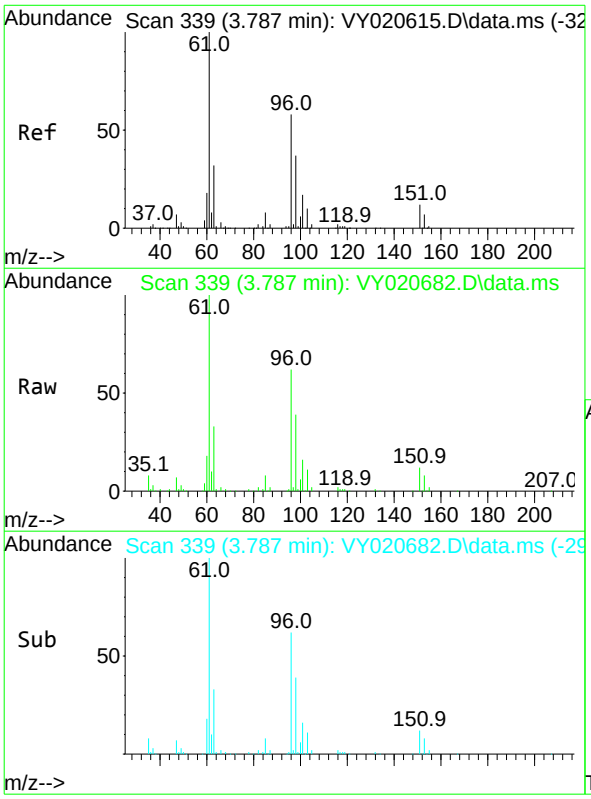
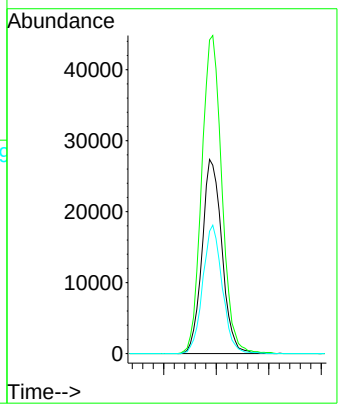
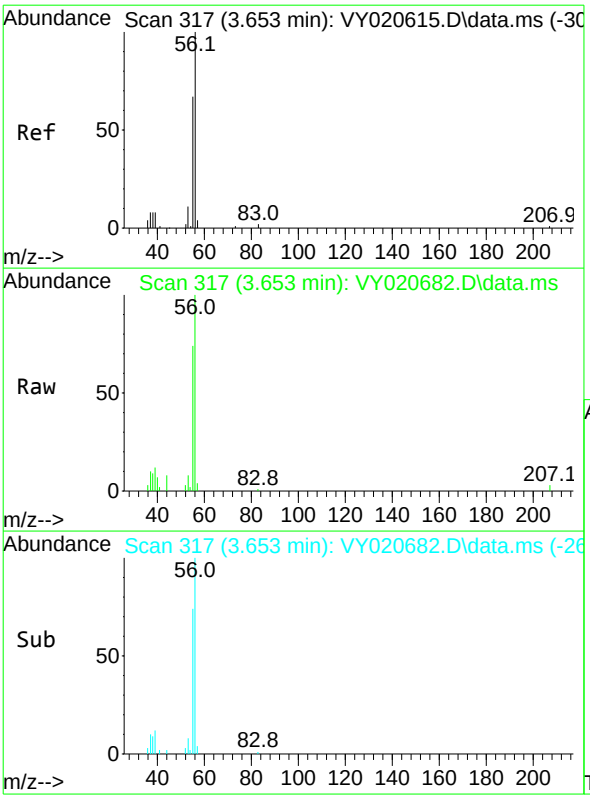



#12
1,1-Dichloroethene
Concen: 39.896 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 96 Resp: 71932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.5 | 136.9 | 205.3 |
| 98 | 63.0 | 50.2 | 75.4 |

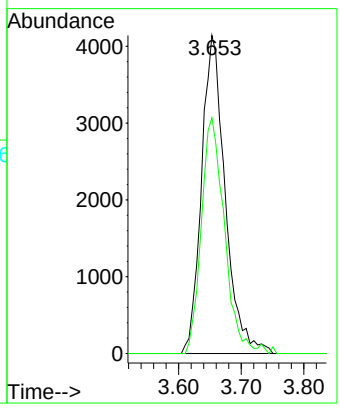





#13
Acrolein
Concen: 145.691 ug/l
RT: 3.653 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 56 Resp: 10852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.7 | 57.5 | 86.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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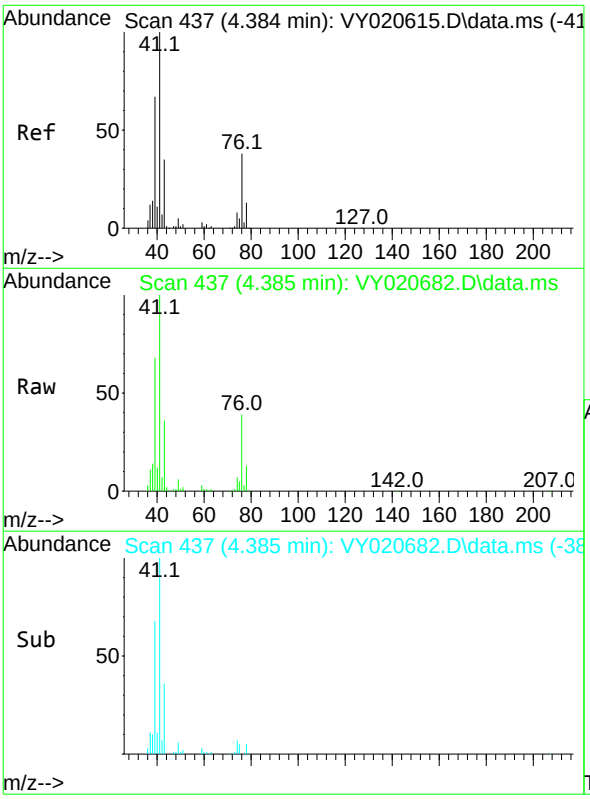
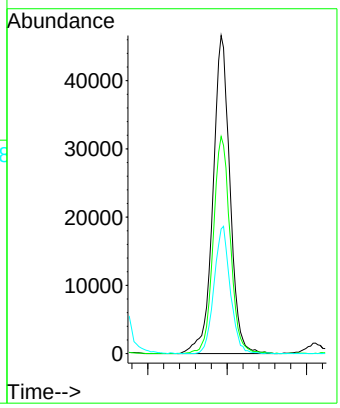
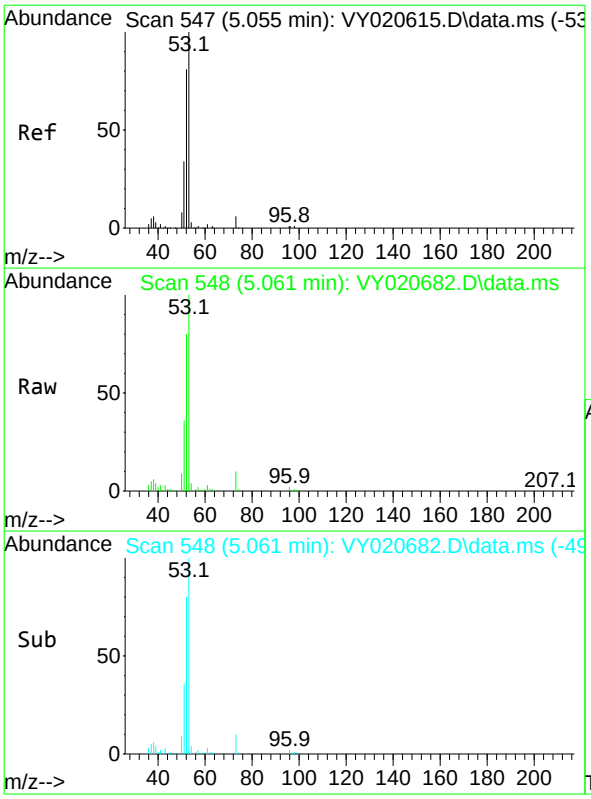



#14
Allyl chloride
Concen: 43.827 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 41 Resp: 138460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.0 | 53.0 | 79.4 |
| 76 | 38.0 | 29.5 | 44.3 |

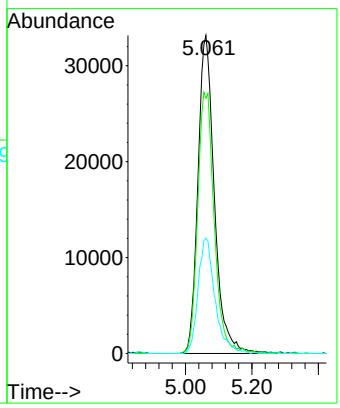





#15
Acrylonitrile
Concen: 262.307 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 53 Resp: 114092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.5 | 64.5 | 96.7 |
| 51 | 37.2 | 29.4 | 44.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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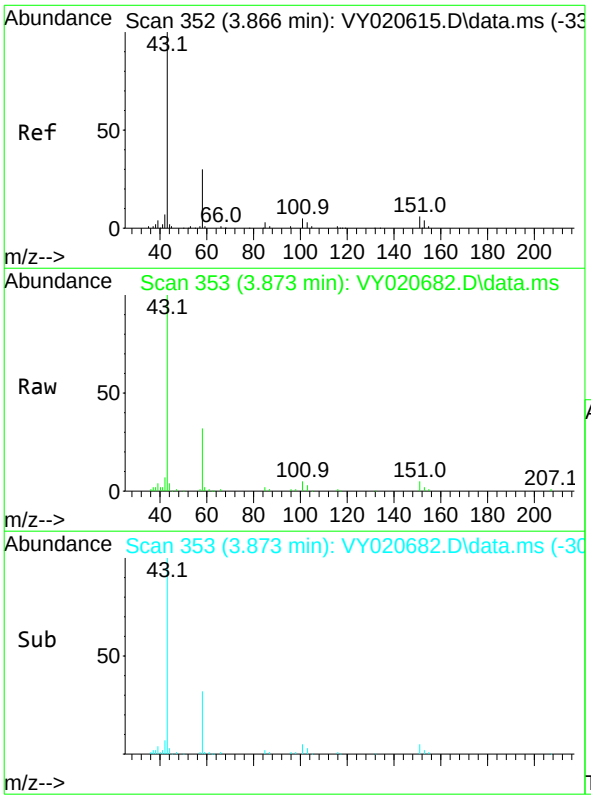
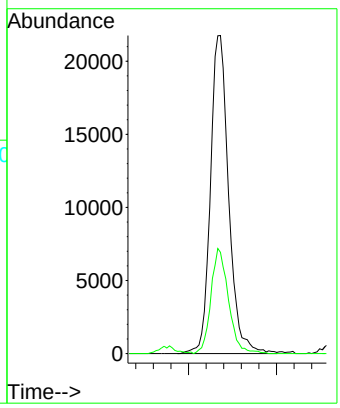
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

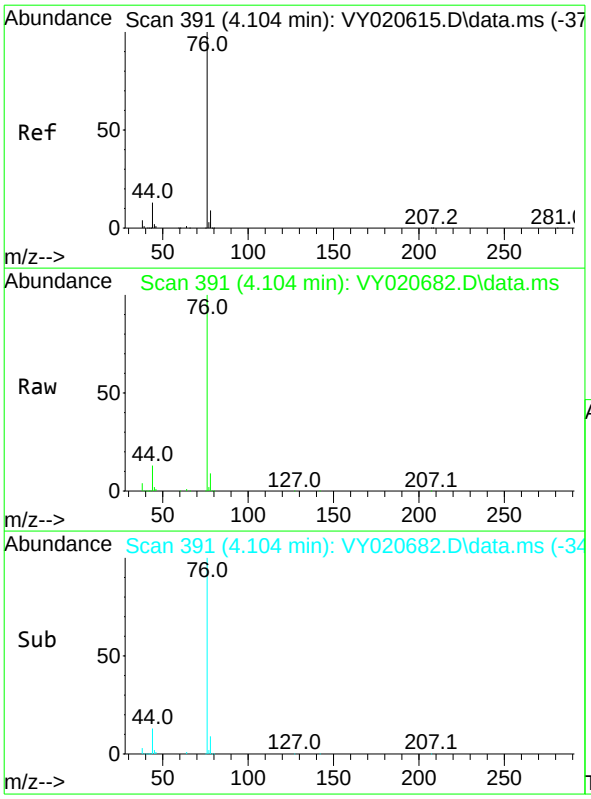



#16
Acetone
Concen: 198.675 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.007 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 62589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.8 | 25.0 | 37.6 |

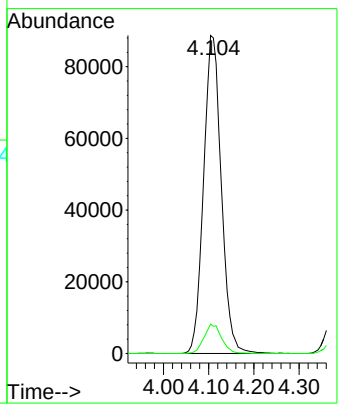





#17
Carbon Disulfide
Concen: 41.052 ug/l
RT: 4.104 min Scan# 39
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 76 Resp: 240927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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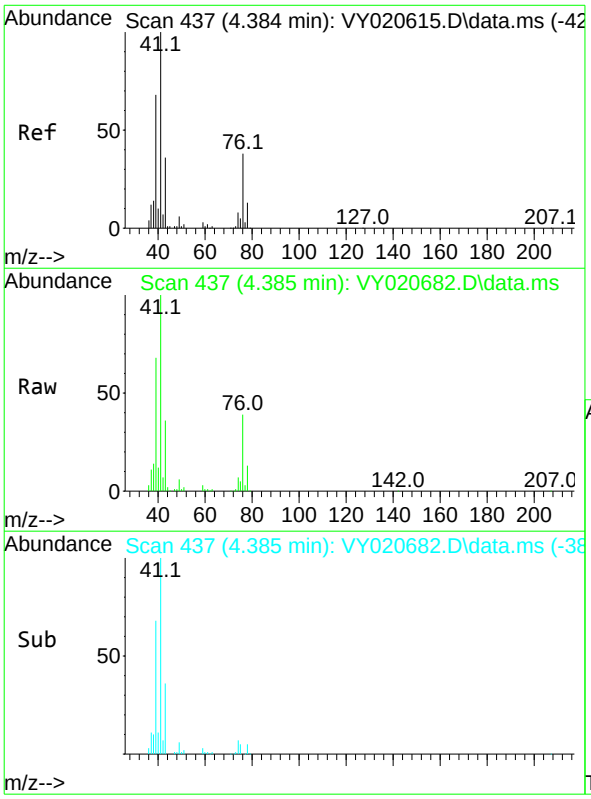
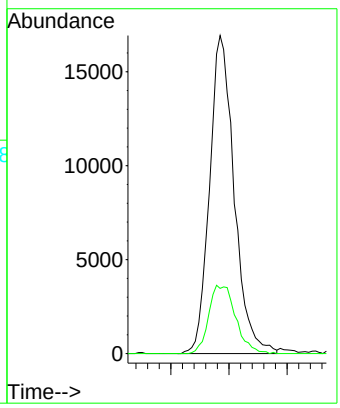
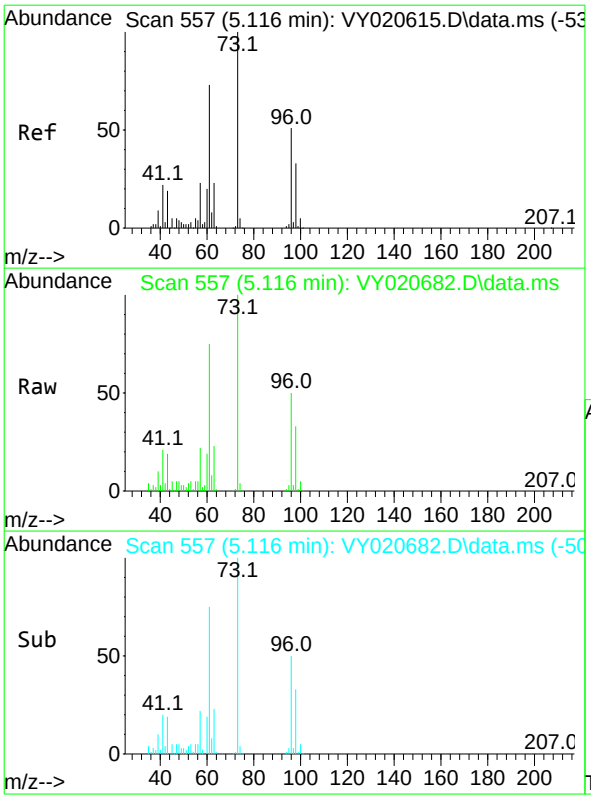



#18
Methyl Acetate
Concen: 46.480 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 49816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.4 | 19.2 | 28.8 |

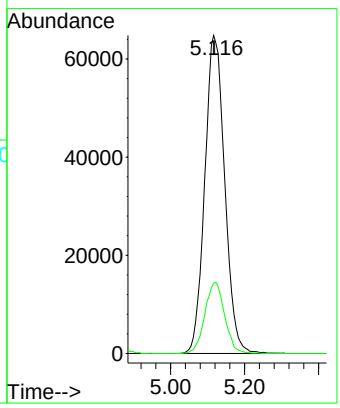





#19
Methyl tert-butyl Ether
Concen: 52.095 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 73 Resp: 242425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 18.5 | 27.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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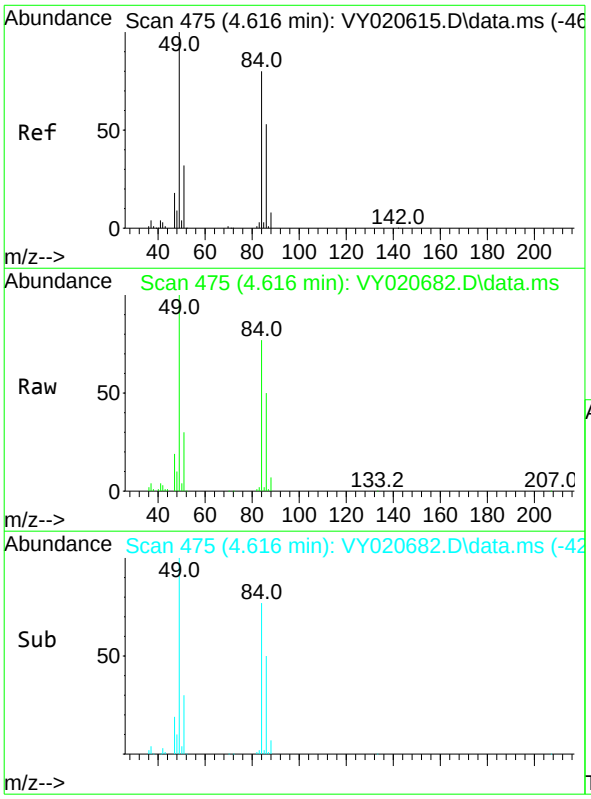
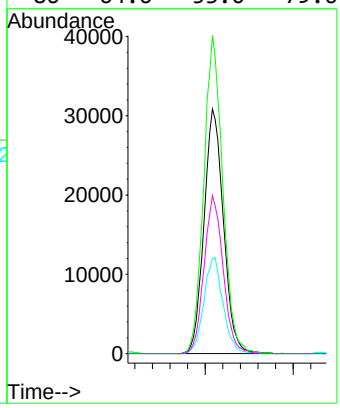
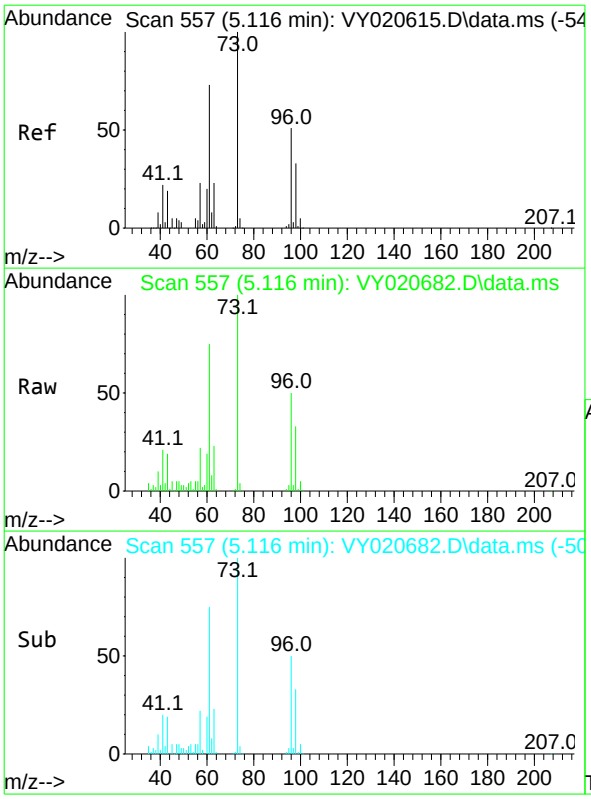



#20
Methylene Chloride
Concen: 48.394 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 84 Resp: 94785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 130.0 | 100.7 | 151.1 |
| 51 | 38.9 | 32.2 | 48.2 |
| 86 | 64.6 | 53.0 | 79.6 |

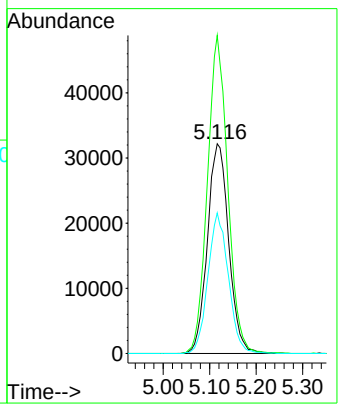





#21
trans-1,2-Dichloroethene
Concen: 50.685 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 96 Resp: 102508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.6 | 113.7 | 170.5 |
| 98 | 67.0 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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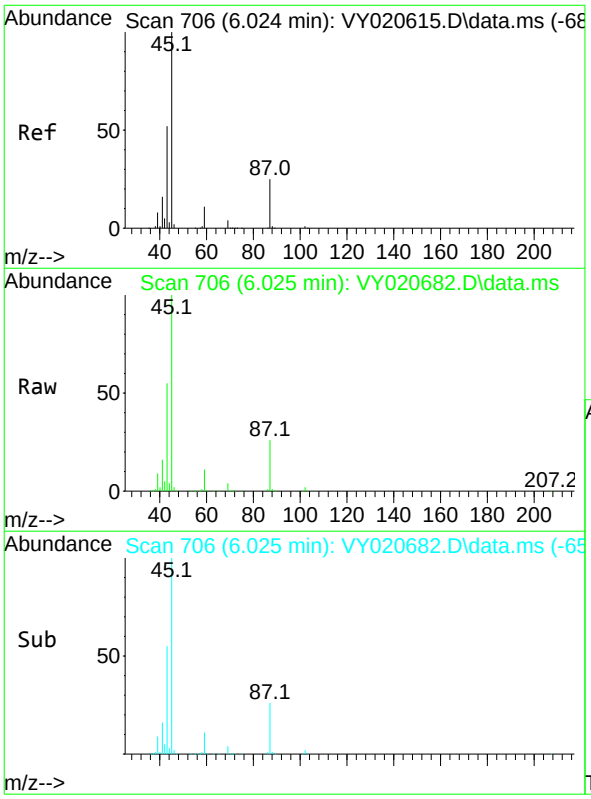
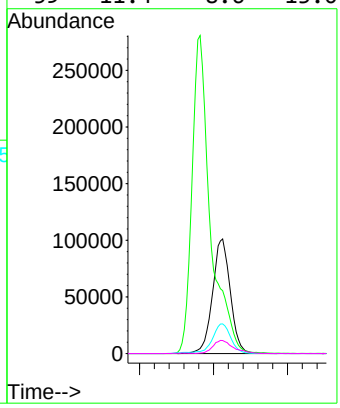
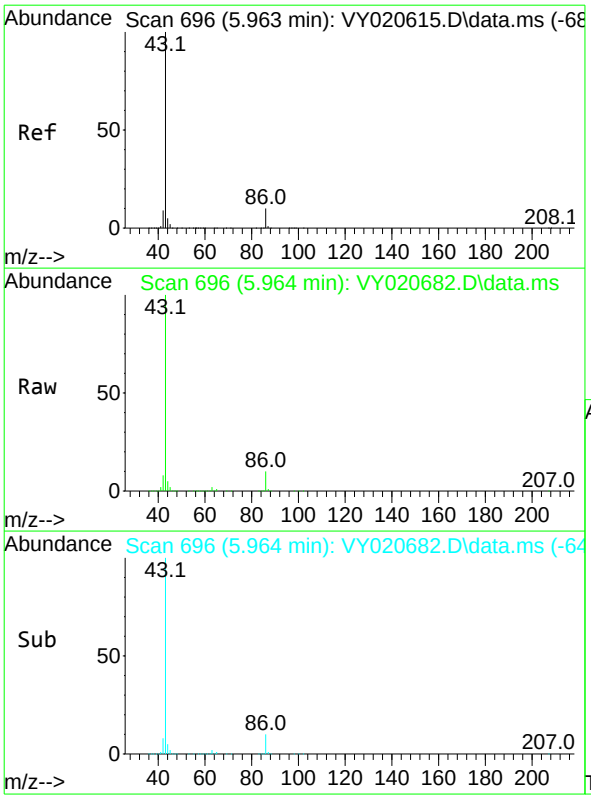



#22
Diisopropyl ether
Concen: 52.616 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 45 Resp: 337414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.5 | 42.6 | 64.0 |
| 87 | 25.9 | 20.6 | 31.0 |
| 59 | 11.4 | 8.6 | 13.0 |






#23
Vinyl Acetate
Concen: 266.302 ug/l
RT: 5.964 min Scan# 69
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 967217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.2 | 8.1 | 12.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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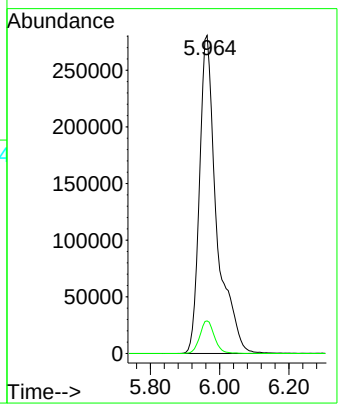
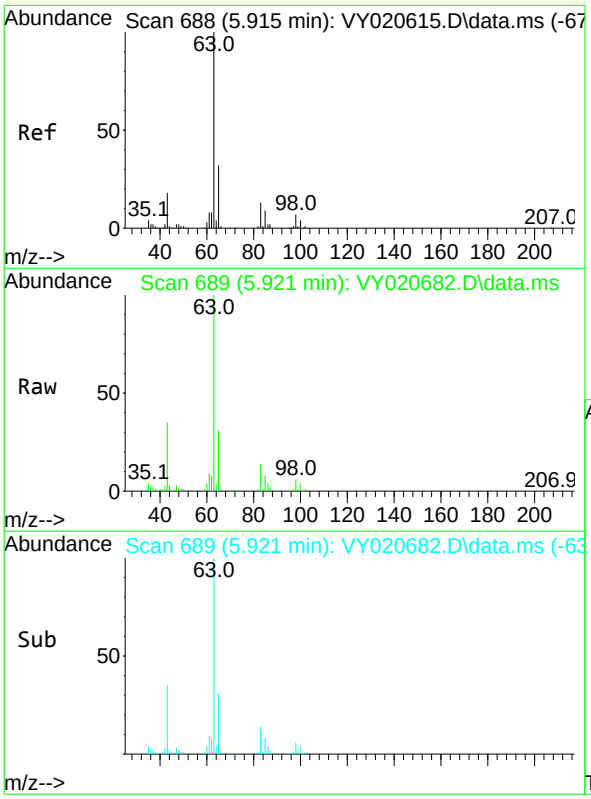
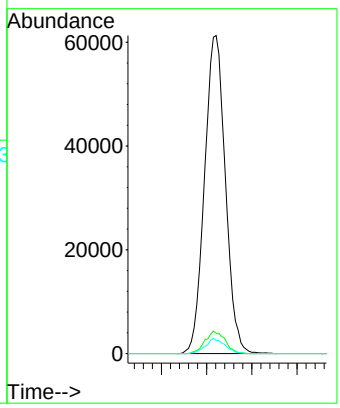


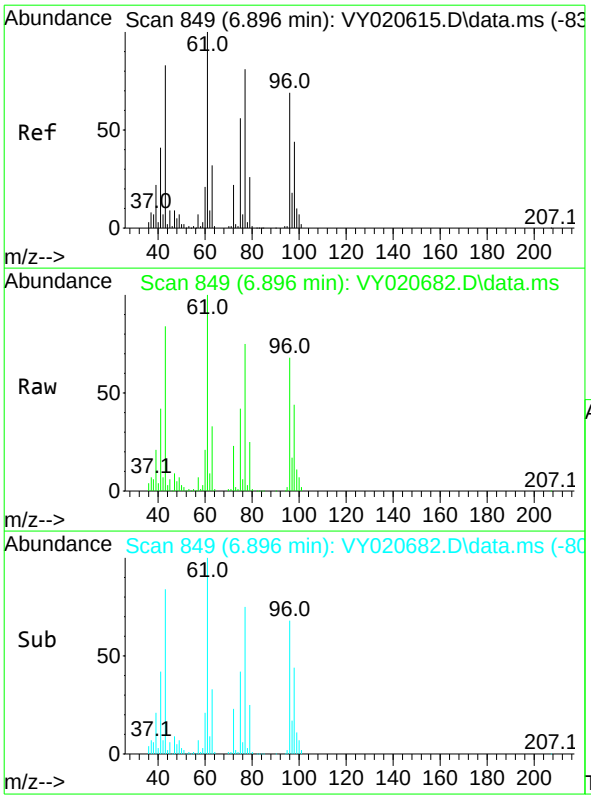




#24
1,1-Dichloroethane
Concen: 52.280 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 63 Resp: 196407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.4 | 3.4 | 10.1 |
| 100 | 4.2 | 2.1 | 6.5 |

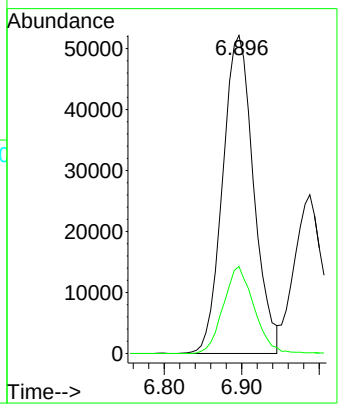





#25
2-Butanone
Concen: 247.823 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 145082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.4 | 20.6 | 31.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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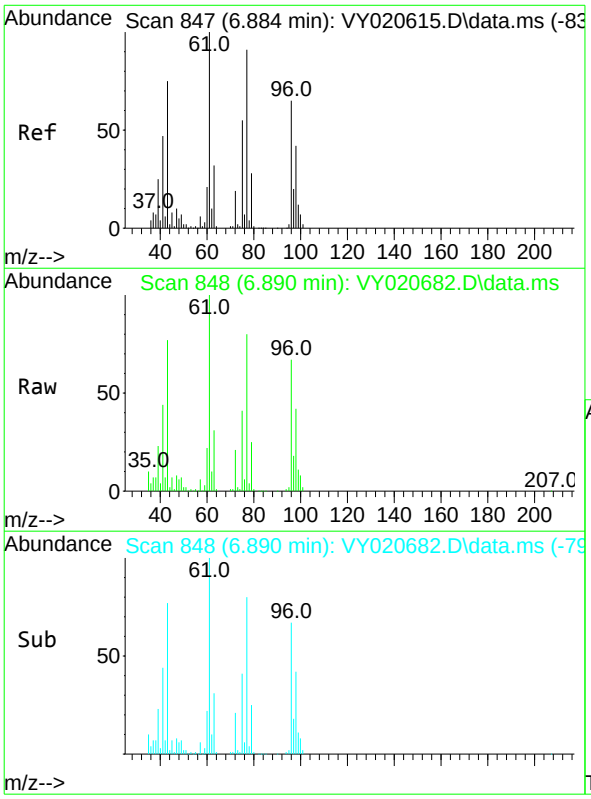
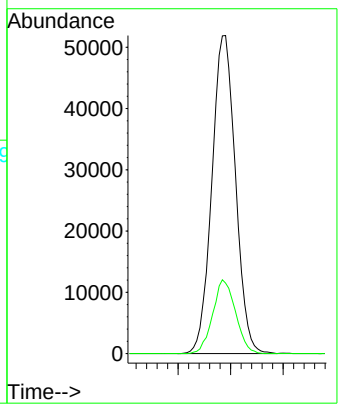
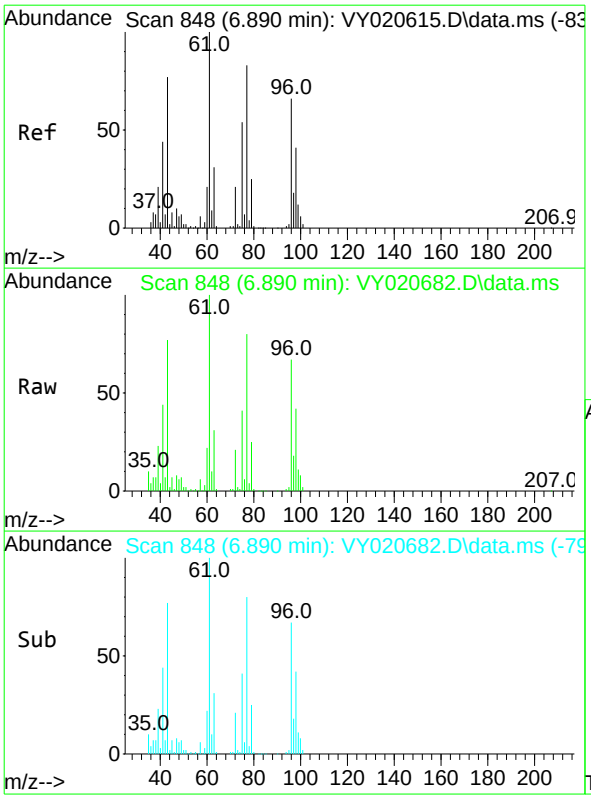



#26
2,2-Dichloropropane
Concen: 45.653 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 77 Resp: 162135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.4 | 10.9 | 32.6 |

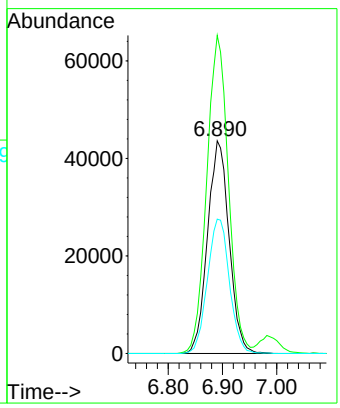





#27
cis-1,2-Dichloroethene
Concen: 51.699 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 96 Resp: 120298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.9 | 0.0 | 306.2 |
| 98 | 64.6 | 0.0 | 127.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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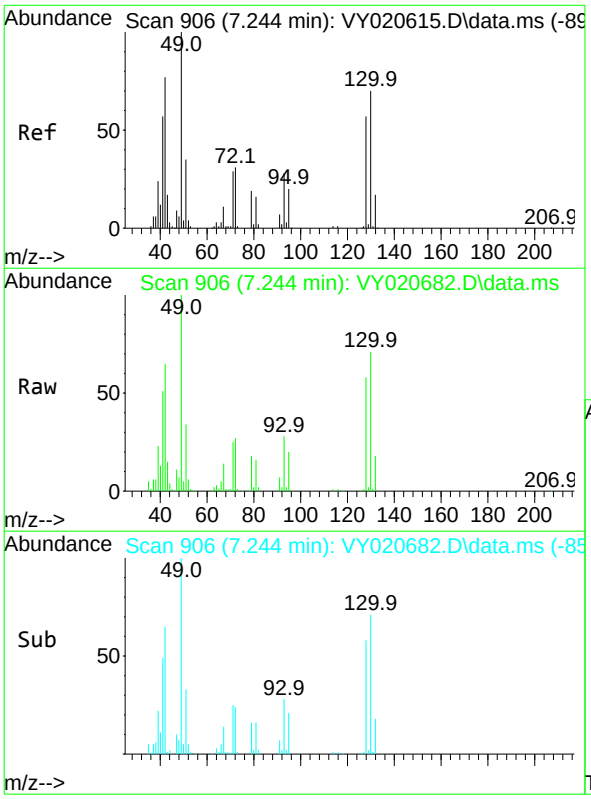
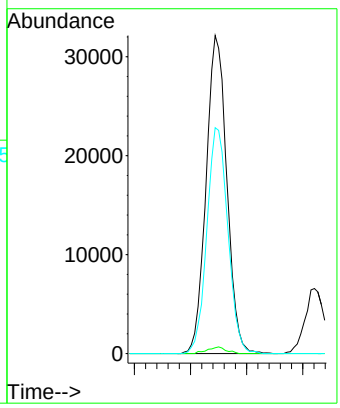
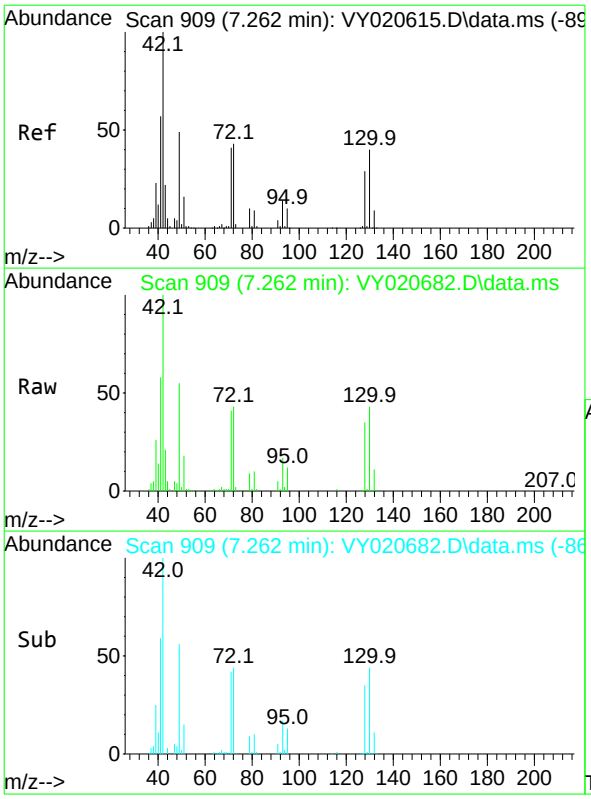



#28
Bromochloromethane
Concen: 65.015 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 49 Resp: 82386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.8 |
| 130 | 72.1 | 58.3 | 87.5 |

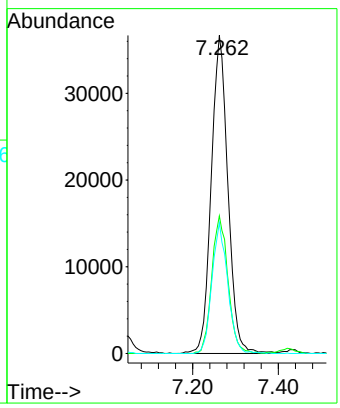





#29
Tetrahydrofuran
Concen: 268.209 ug/l
RT: 7.262 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 42 Resp: 99121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.2 | 34.0 | 51.0 |
| 71 | 38.9 | 31.6 | 47.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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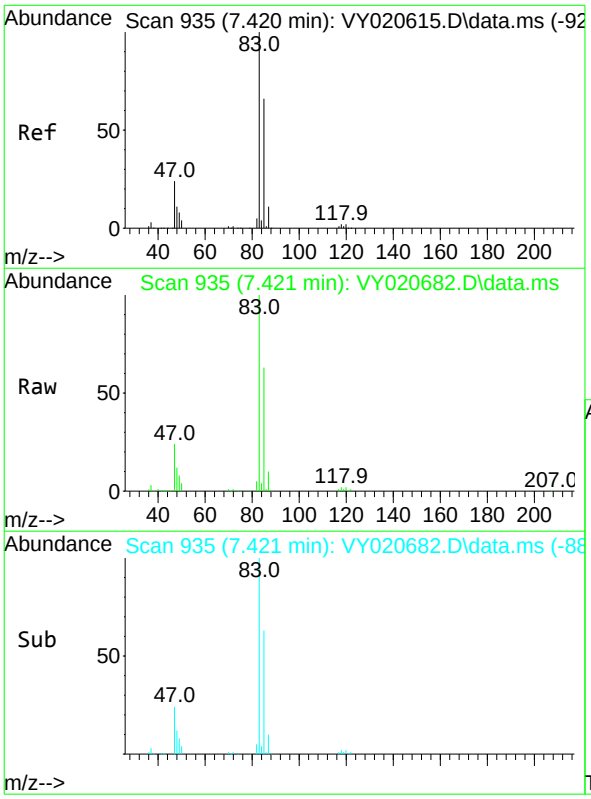
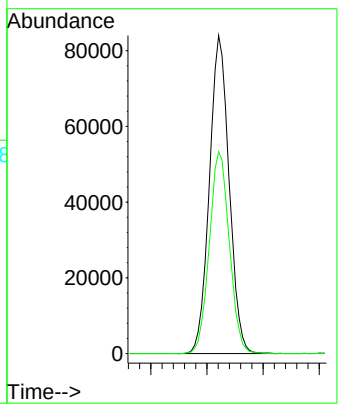
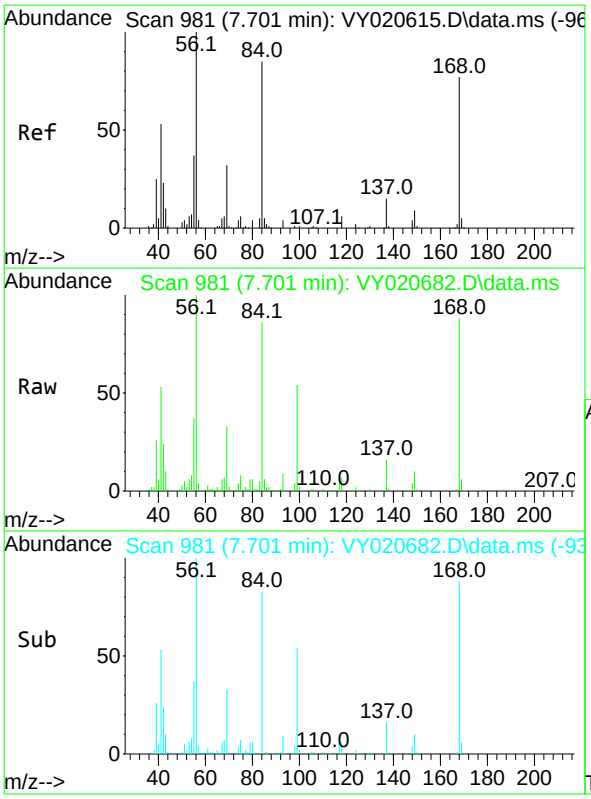



#30
Chloroform
Concen: 54.780 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 83 Resp: 204738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 52.7 | 79.1 |

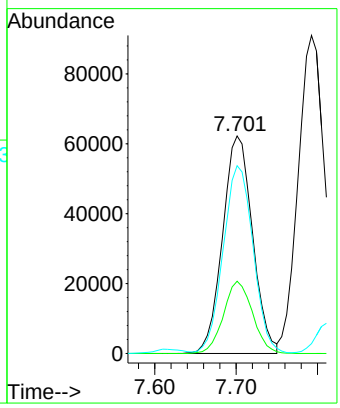





#31
Cyclohexane
Concen: 44.289 ug/l
RT: 7.701 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 56 Resp: 159093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.2 | 25.4 | 38.0 |
| 84 | 84.8 | 68.3 | 102.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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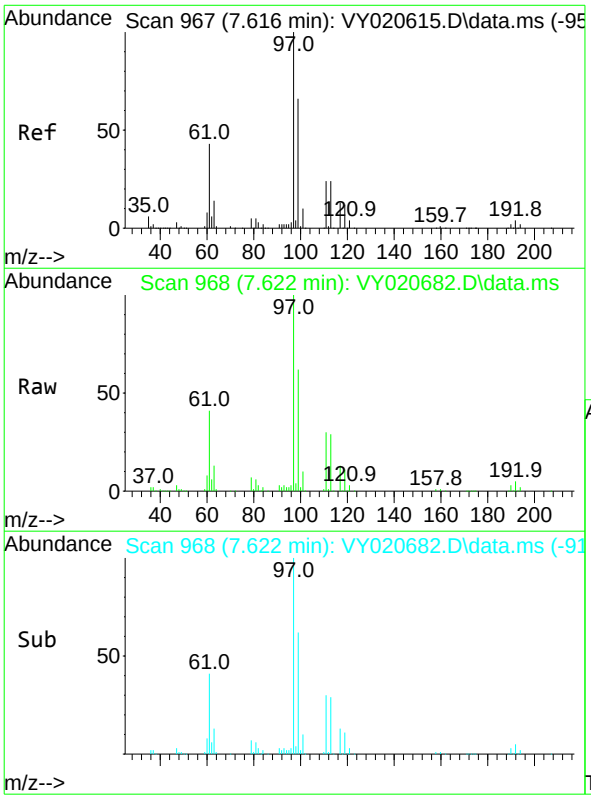
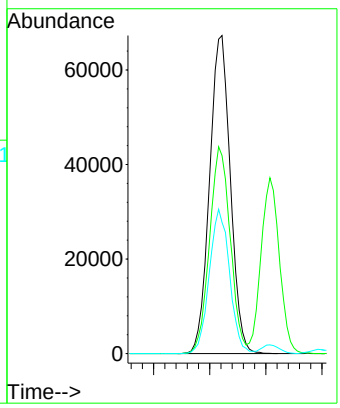
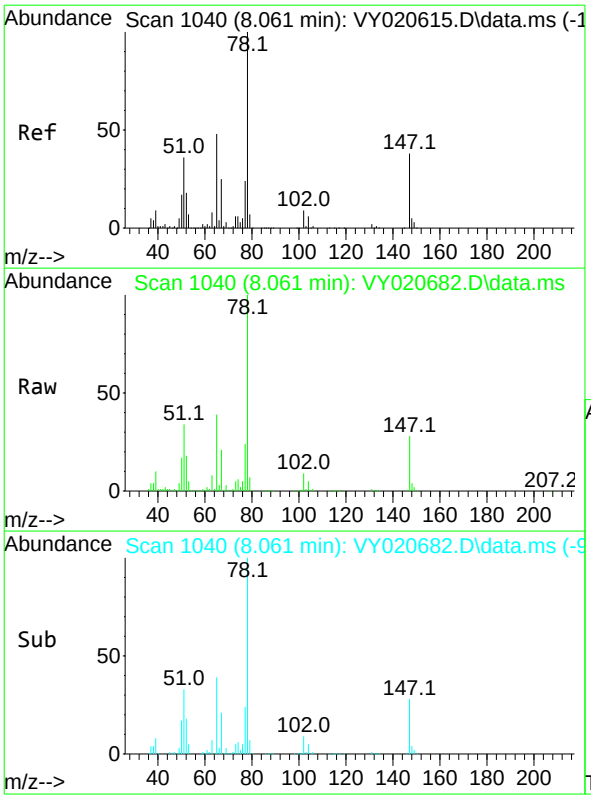



#32
1,1,1-Trichloroethane
Concen: 50.188 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 97 Resp: 173221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.6 | 77.4 |
| 61 | 44.4 | 34.7 | 52.1 |

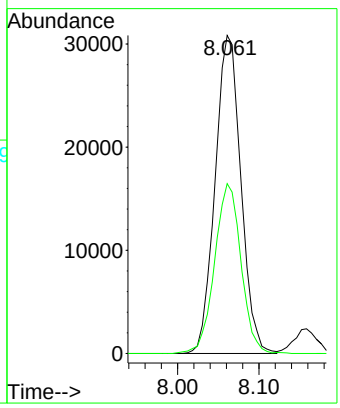





#33
1,2-Dichloroethane-d4
Concen: 43.111 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 65 Resp: 67912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.6 | 0.0 | 108.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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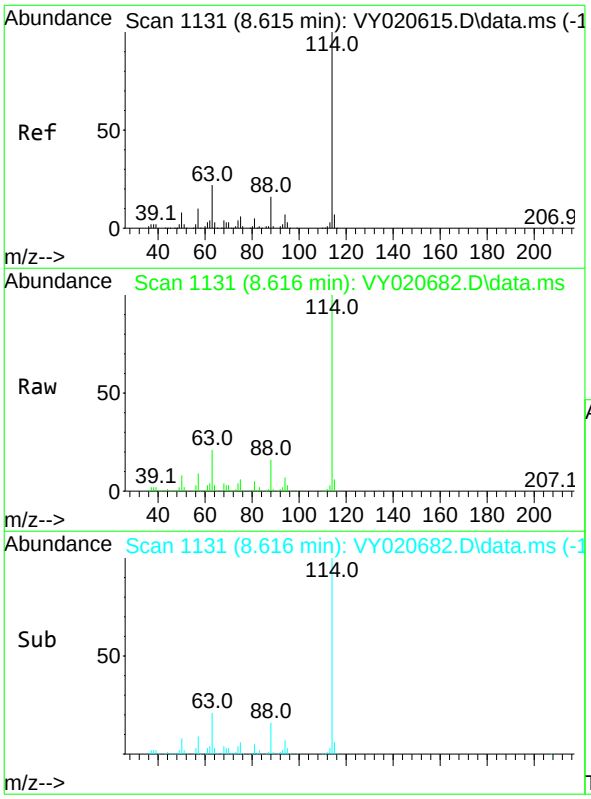
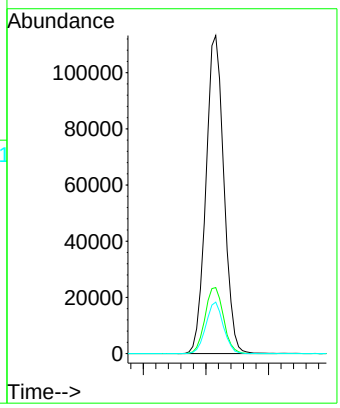
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

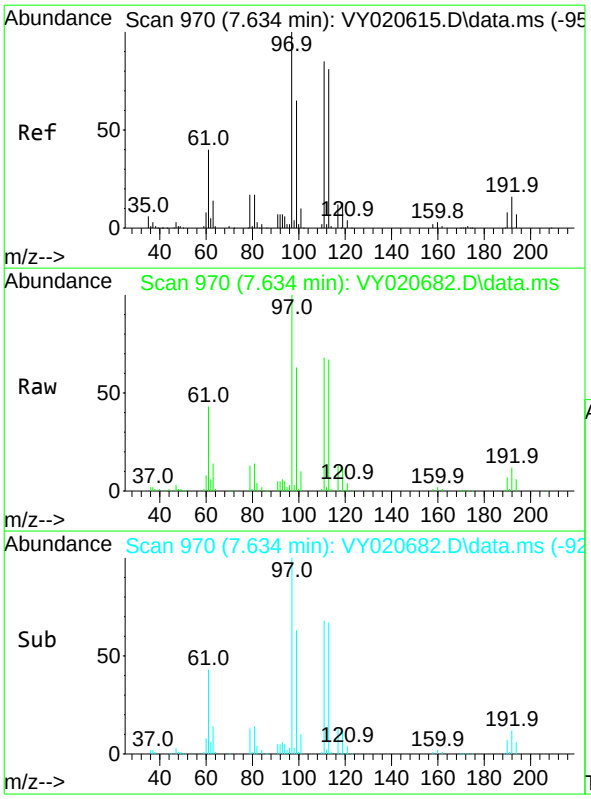



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:114 Resp: 225180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.8 | 0.0 | 44.0 |
| 88 | 16.2 | 0.0 | 32.8 |

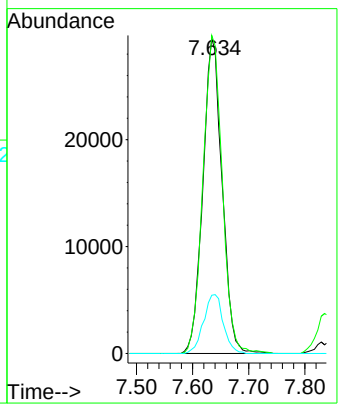





#35
Dibromofluoromethane
Concen: 44.159 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:113 Resp: 70081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 82.9 | 124.3 |
| 192 | 19.1 | 15.7 | 23.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

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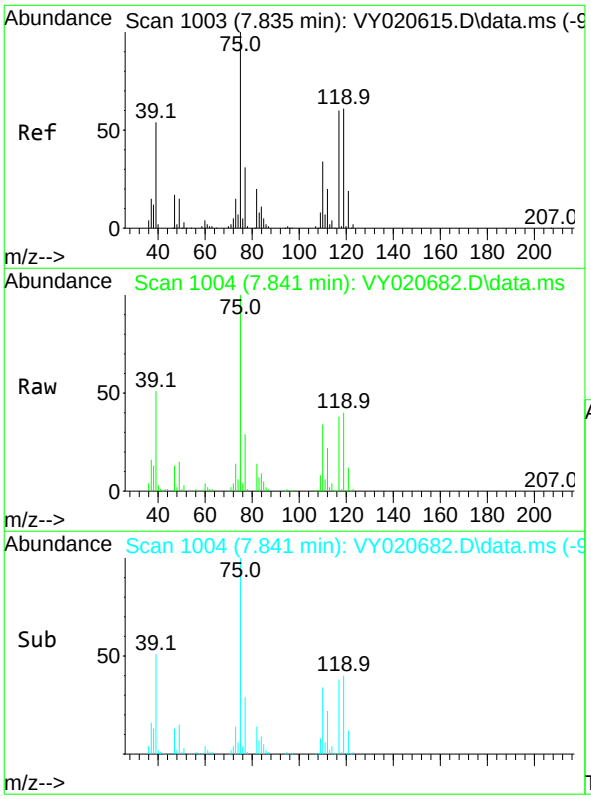
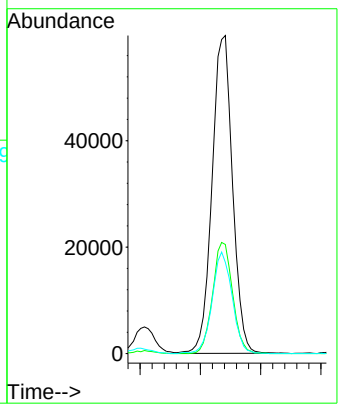
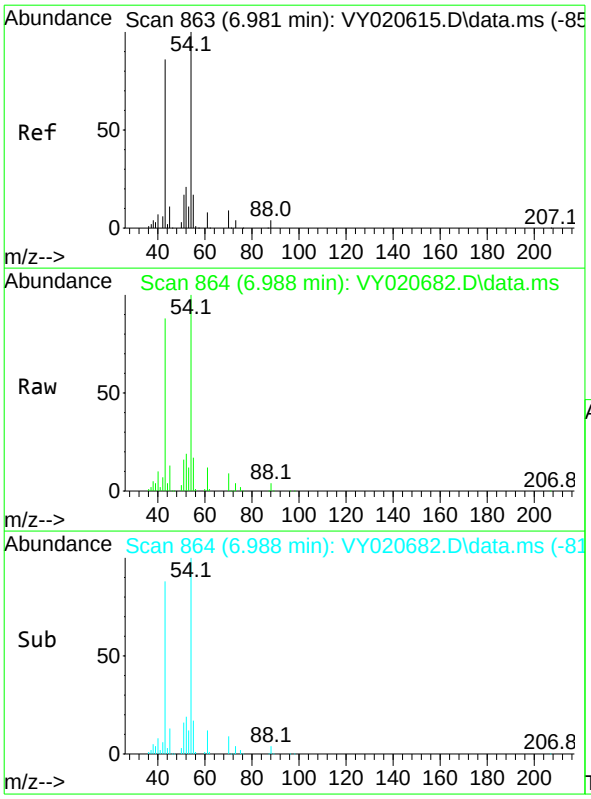



#36
1,1-Dichloropropene
Concen: 48.693 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 75 Resp: 140911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.1 | 16.8 | 50.4 |
| 77 | 31.2 | 25.0 | 37.6 |

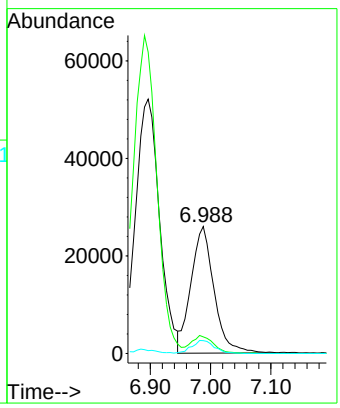





#37
Ethyl Acetate
Concen: 50.601 ug/l
RT: 6.988 min Scan# 86
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 68879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.0 | 11.0 | 16.4 |
| 70 | 10.0 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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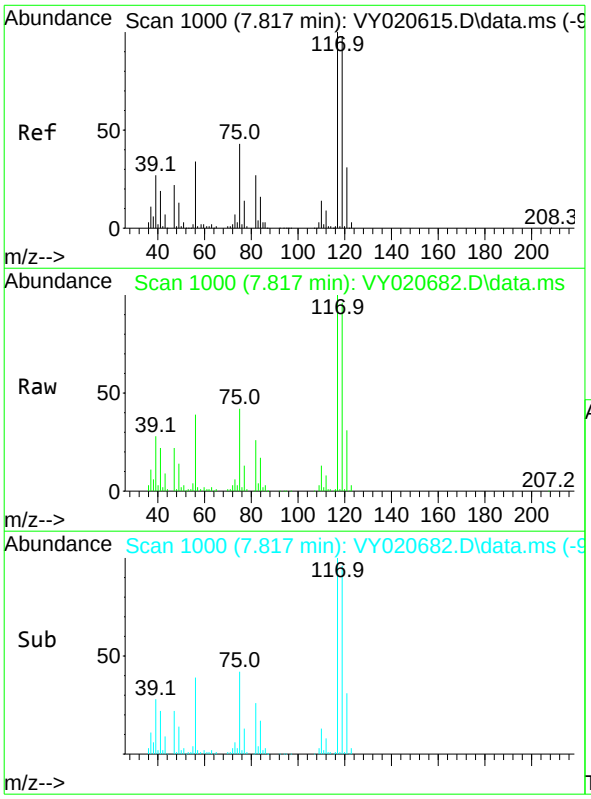
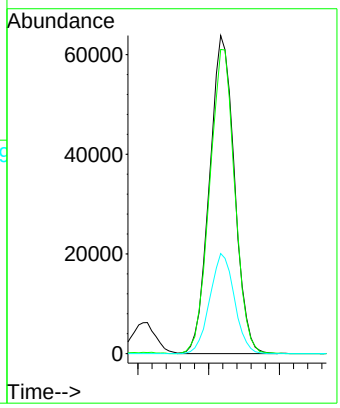
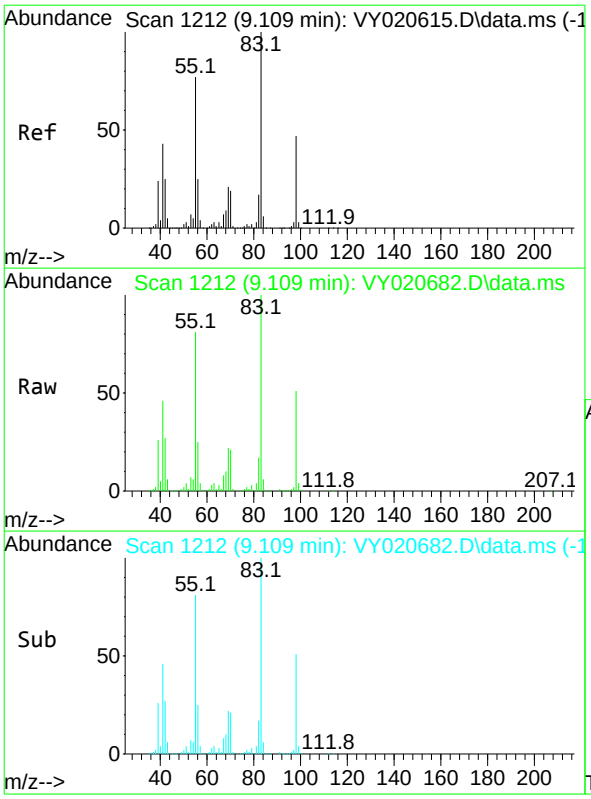



#38
Carbon Tetrachloride
Concen: 48.699 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:117 Resp: 155919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.6 | 78.3 | 117.5 |
| 121 | 31.5 | 25.1 | 37.7 |






#39
Methylcyclohexane
Concen: 43.957 ug/l
RT: 9.109 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 83 Resp: 165792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 80.6 | 61.4 | 92.0 |
| 98 | 51.1 | 37.3 | 55.9 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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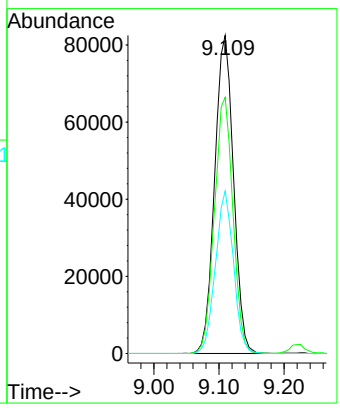
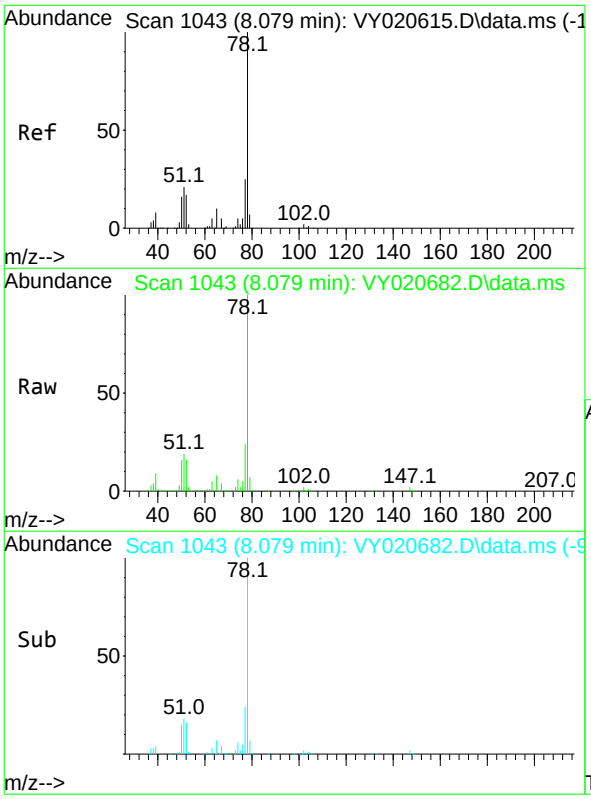
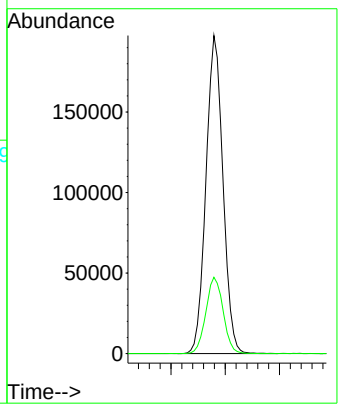


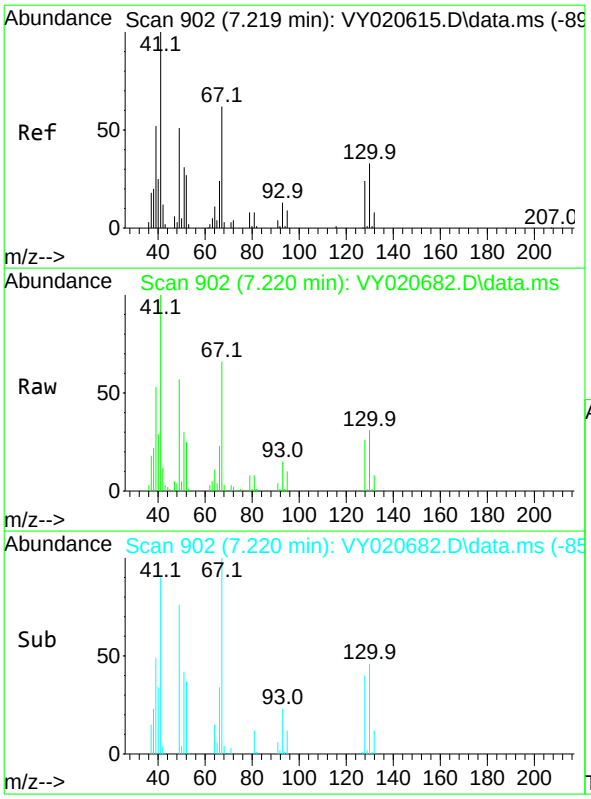




#40
Benzene
Concen: 50.578 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 78 Resp: 429017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 20.1 | 30.1 |

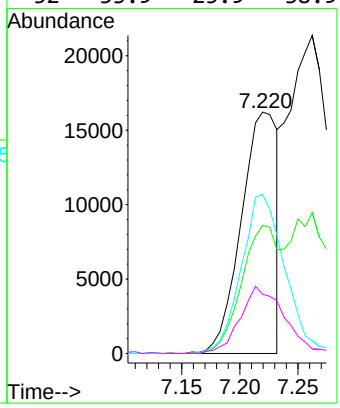





#41
Methacrylonitrile
Concen: 48.692 ug/l
RT: 7.220 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 41 Resp: 35040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.4 | 53.6 | 80.4# |
| 67 | 79.5 | 62.0 | 93.0 |
| 52 | 33.9 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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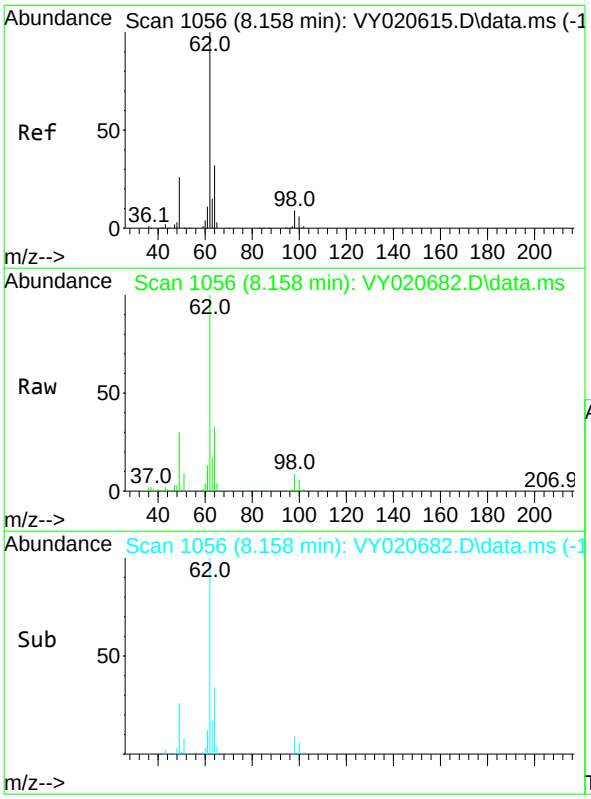
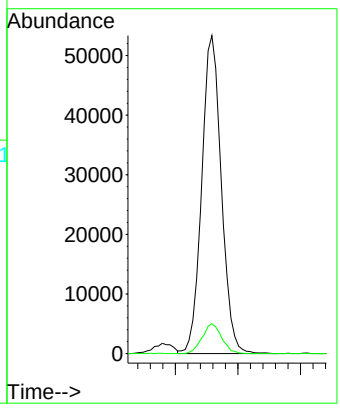
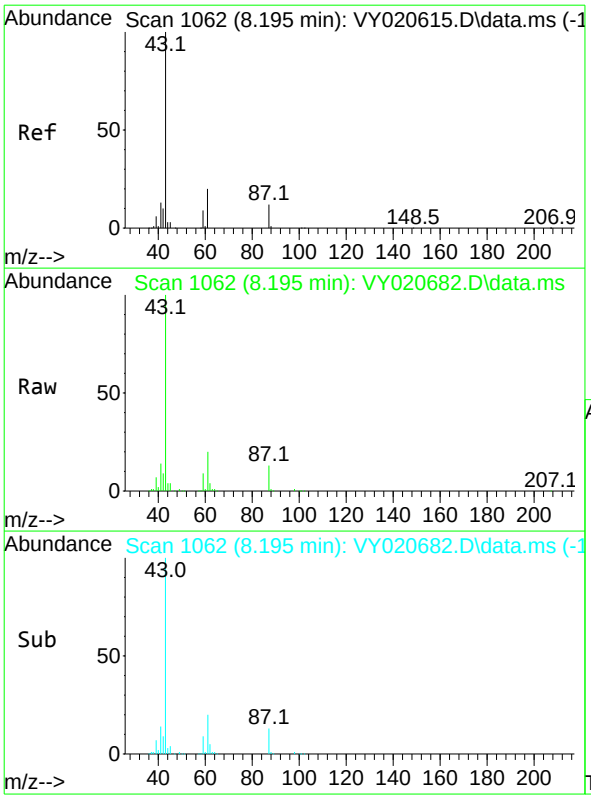



#42
1,2-Dichloroethane
Concen: 51.589 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 62 Resp: 116059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.3 | 0.0 | 18.0 |

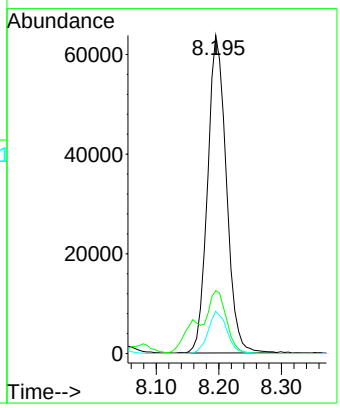





#43
Isopropyl Acetate
Concen: 51.476 ug/l
RT: 8.195 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 132653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.1 | 23.8 | 35.6# |
| 87 | 13.2 | 10.2 | 15.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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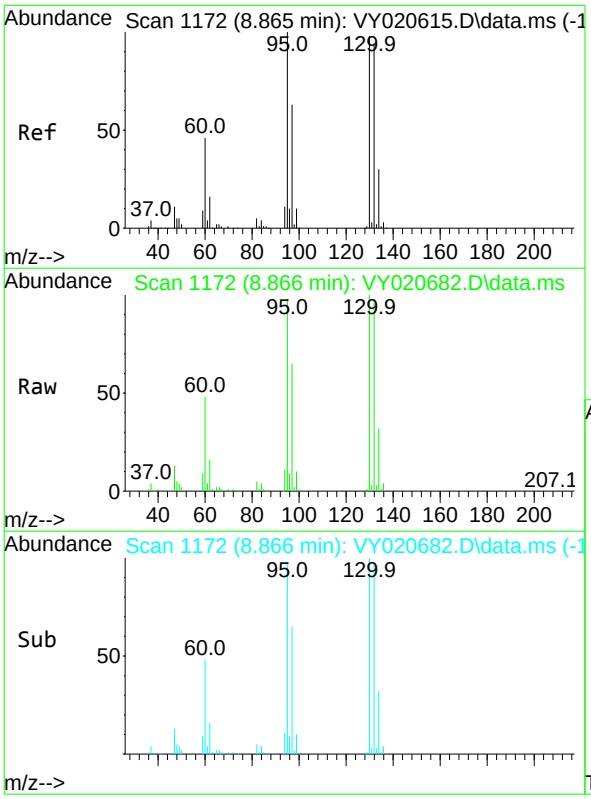
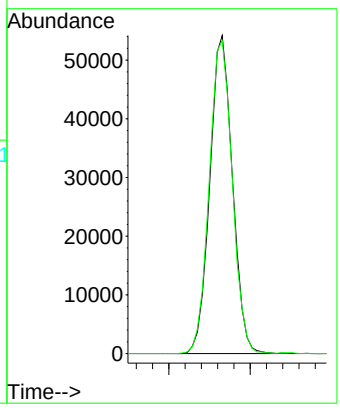
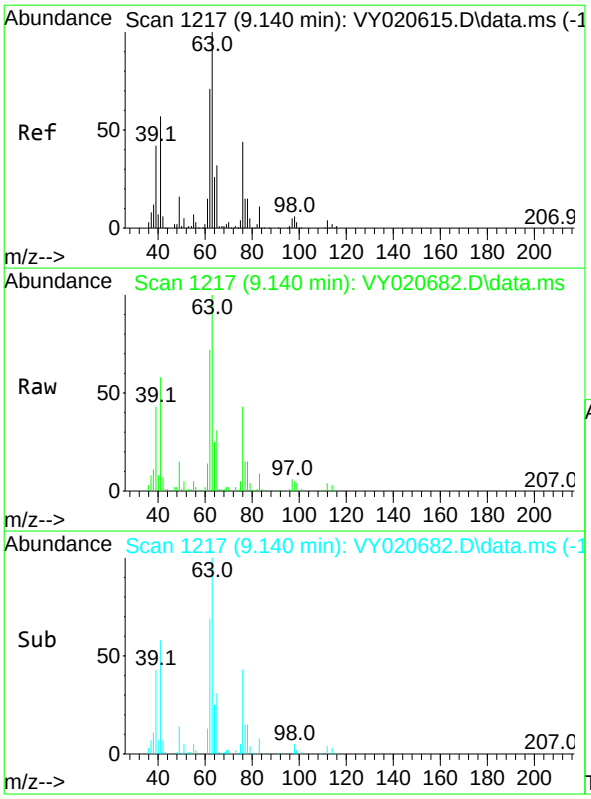



#44
Trichloroethene
Concen: 50.065 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:130 Resp: 104350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.3 | 0.0 | 203.2 |

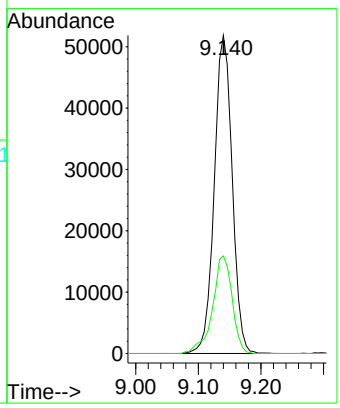





#45
1,2-Dichloropropane
Concen: 51.953 ug/l
RT: 9.140 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 63 Resp: 102993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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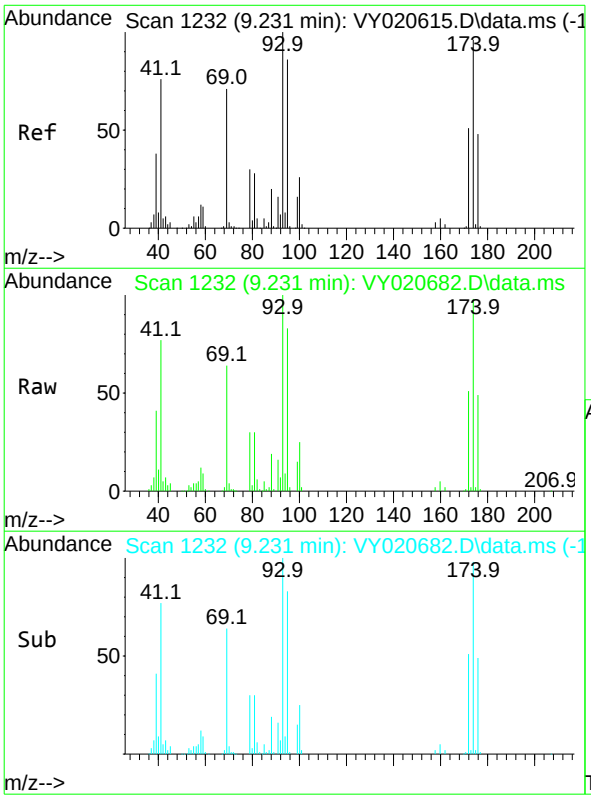
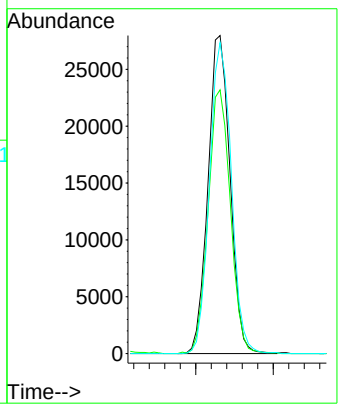
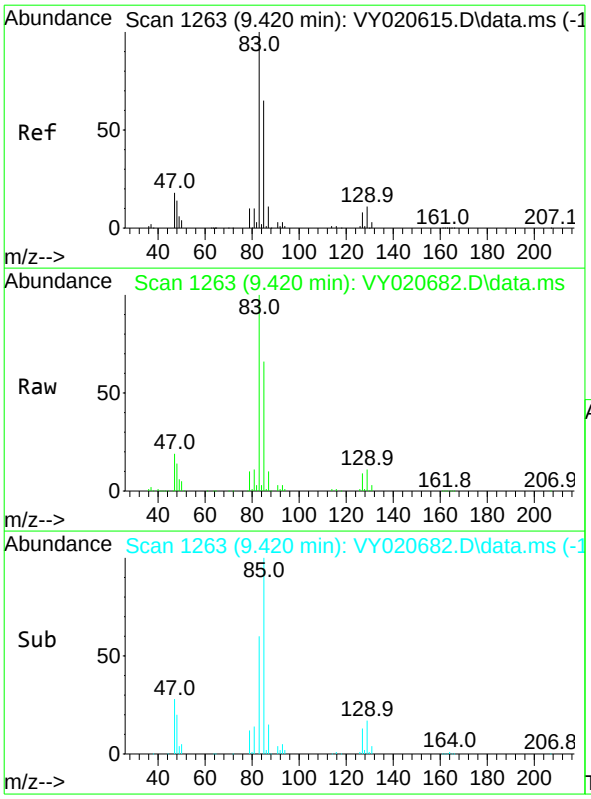



#46
Dibromomethane
Concen: 52.734 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 93 Resp: 55249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.9 | 66.7 | 100.1 |
| 174 | 96.8 | 77.8 | 116.6 |

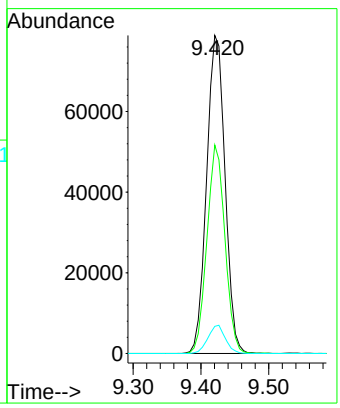





#47
Bromodichloromethane
Concen: 52.643 ug/l
RT: 9.420 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 83 Resp: 148983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.6 | 52.1 | 78.1 |
| 127 | 8.5 | 6.7 | 10.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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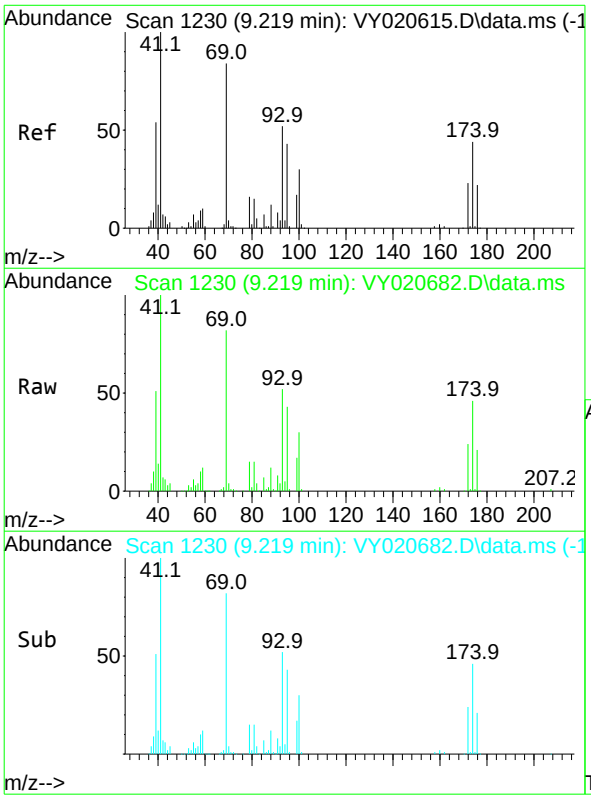
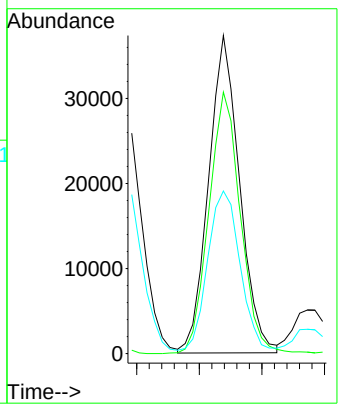
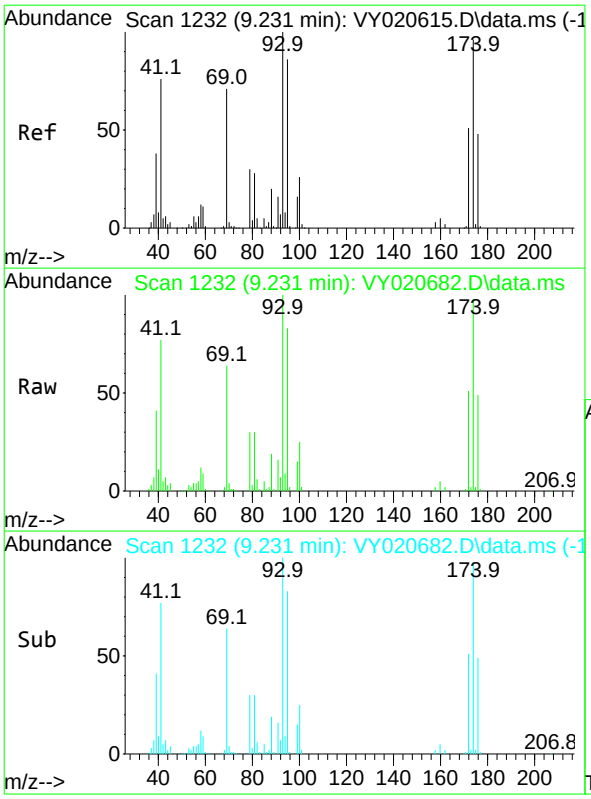



#48
Methyl methacrylate
Concen: 52.516 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 41 Resp: 64336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.7 | 67.2 | 100.8 |
| 39 | 52.0 | 42.2 | 63.4 |

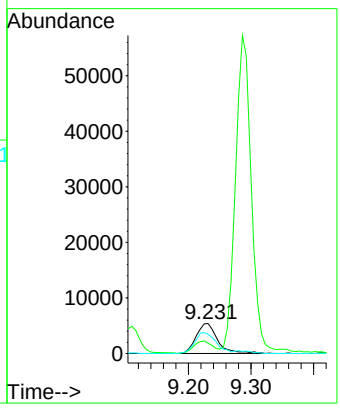





#49
1,4-Dioxane
Concen: 1069.318 ug/l
RT: 9.231 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 88 Resp: 12848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 37.9 | 27.6 | 41.4 |
| 58 | 69.8 | 61.7 | 92.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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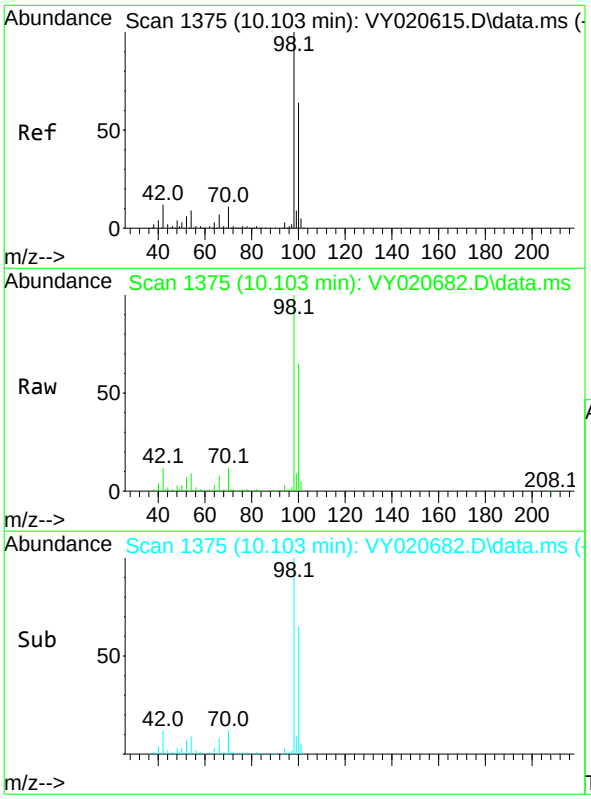
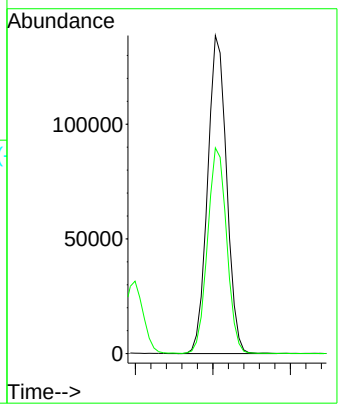
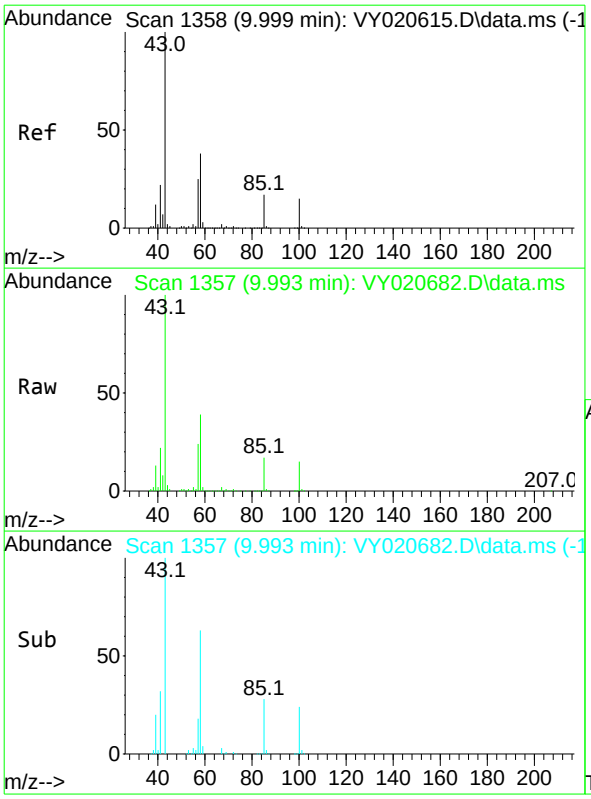



#50
Toluene-d8
Concen: 42.543 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 98 Resp: 236316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.1 | 78.1 |

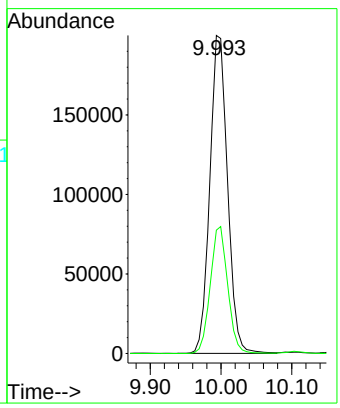





#51
4-Methyl-2-Pentanone
Concen: 255.175 ug/l
RT: 9.993 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 347100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.3 | 31.4 | 47.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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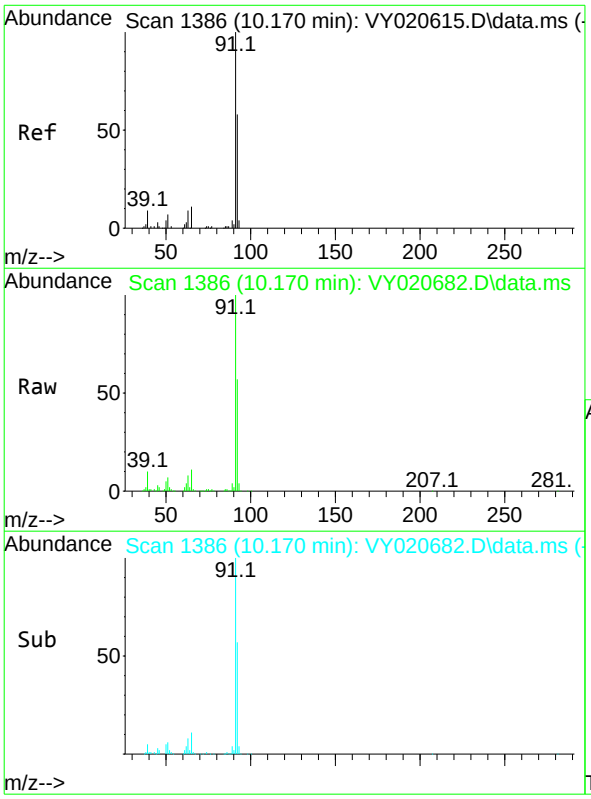
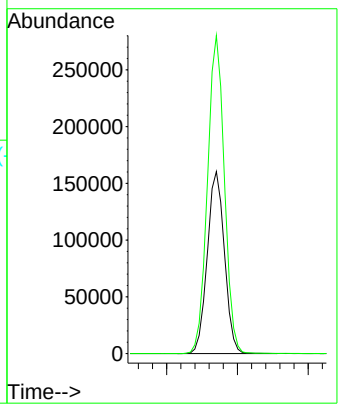
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

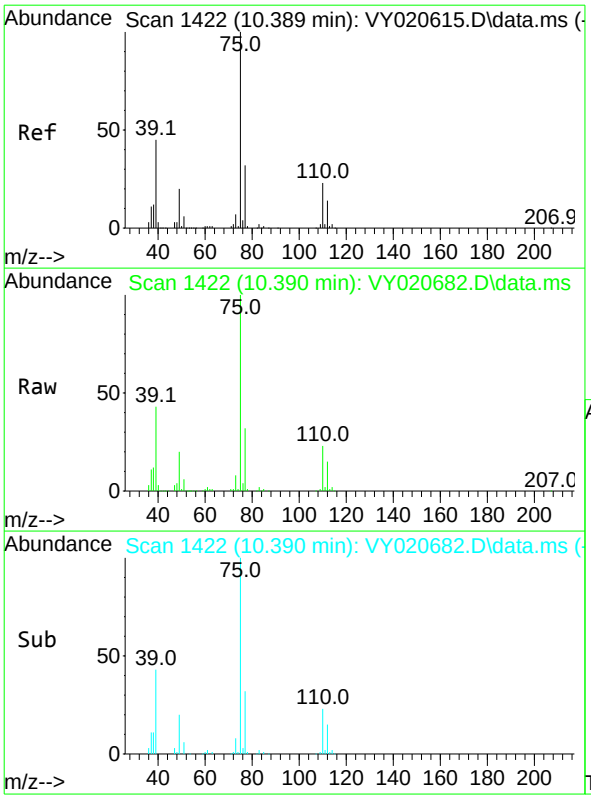



#52
Toluene
Concen: 51.164 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 92 Resp: 269709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.5 | 137.4 | 206.0 |

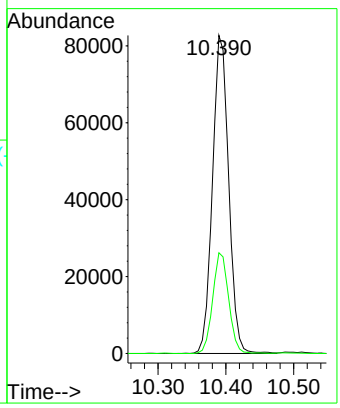





#53
t-1,3-Dichloropropene
Concen: 51.983 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 75 Resp: 137082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
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VSTDCCC050EC

**Manual Integrations**
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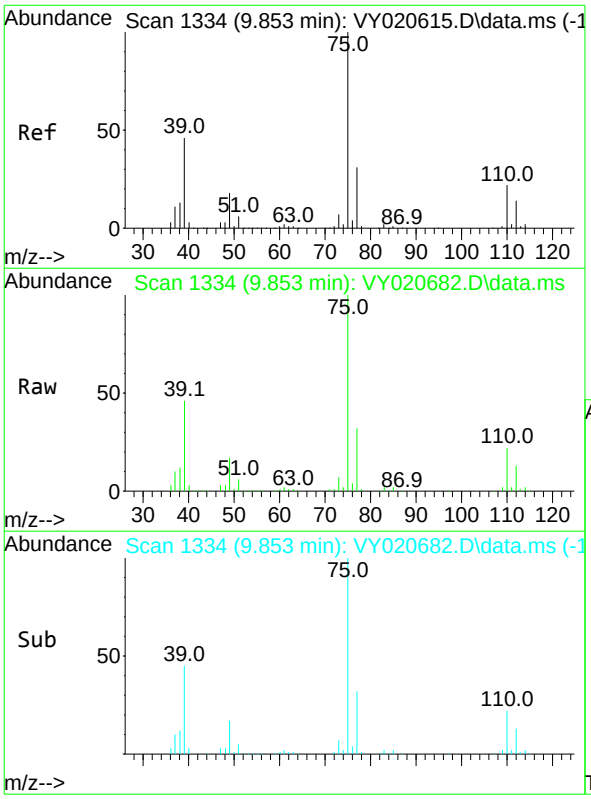
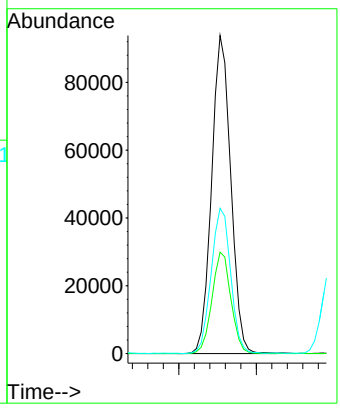
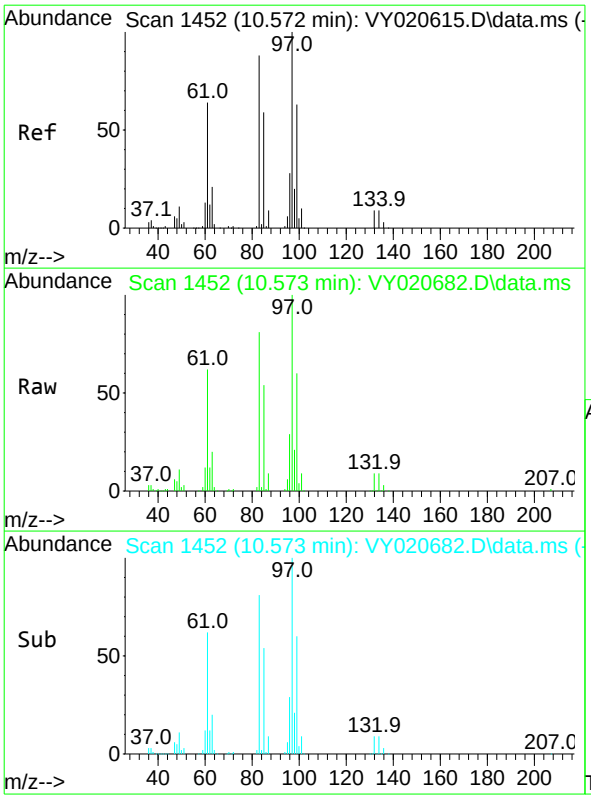



#54
cis-1,3-Dichloropropene
Concen: 51.582 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 75 Resp: 161185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 24.6 | 36.8 |
| 39 | 45.5 | 36.4 | 54.6 |

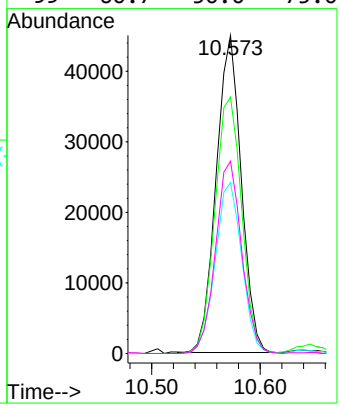





#55
1,1,2-Trichloroethane
Concen: 52.160 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 97 Resp: 72252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 80.9 | 70.4 | 105.6 |
| 85 | 53.9 | 47.2 | 70.8 |
| 99 | 60.7 | 50.0 | 75.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

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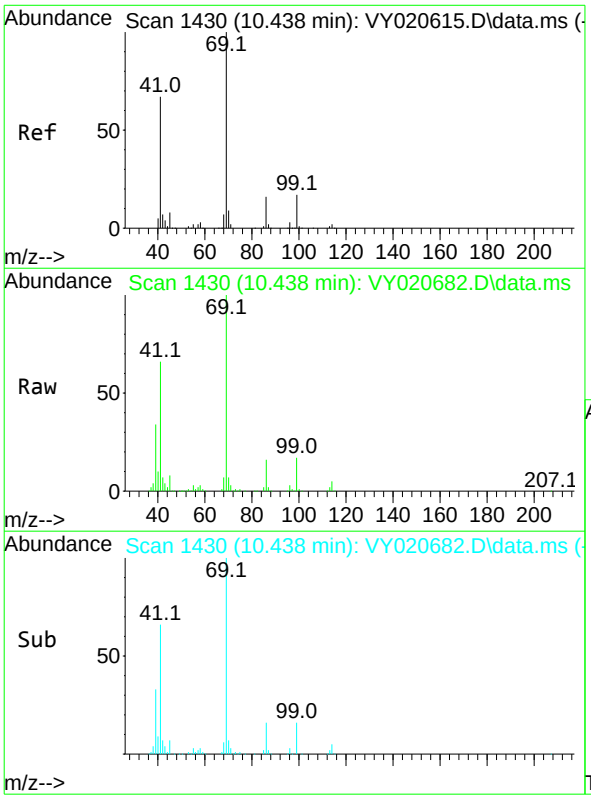
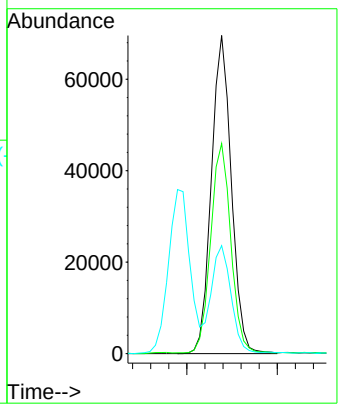
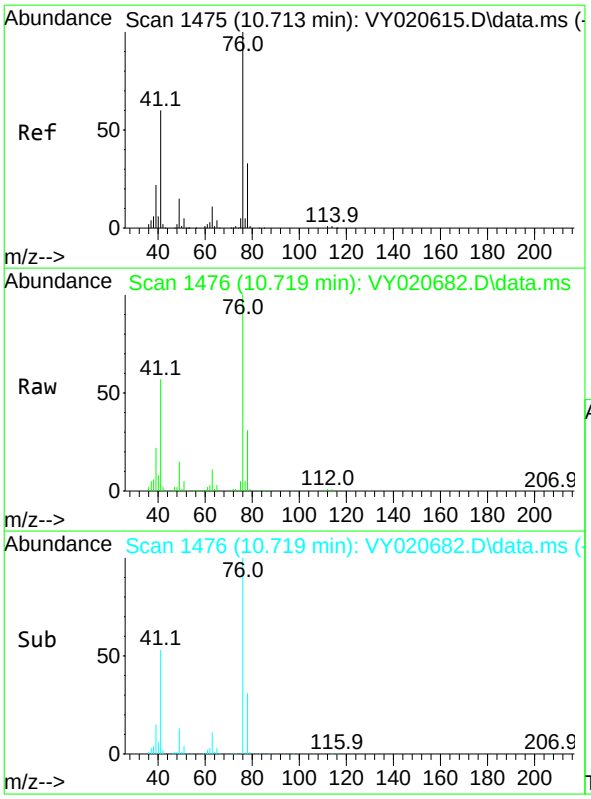



#56
Ethyl methacrylate
Concen: 53.177 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 69 Resp: 106862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.9 | 54.0 | 81.0 |
| 39 | 34.4 | 27.9 | 41.9 |






#57
1,3-Dichloropropane
Concen: 52.533 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 76 Resp: 129720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 25.8 | 38.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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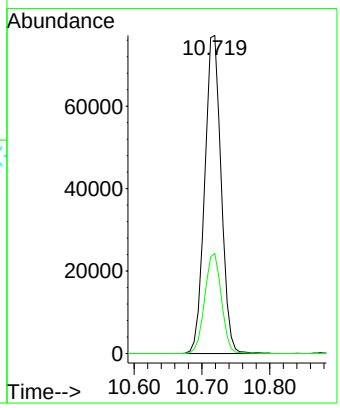
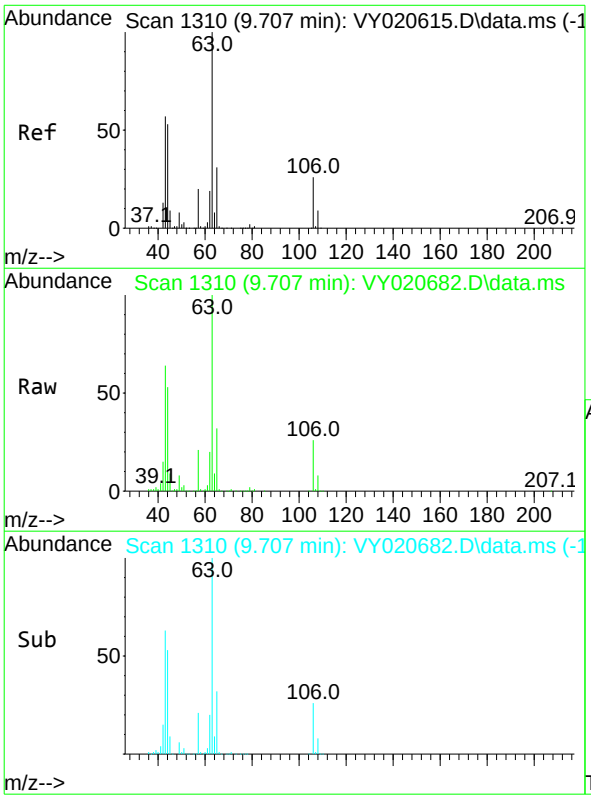
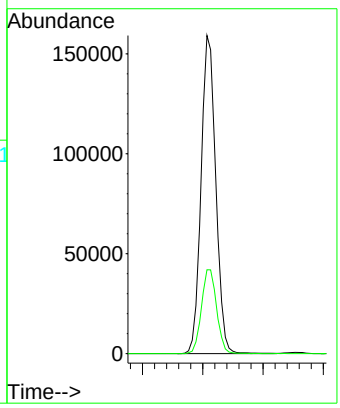


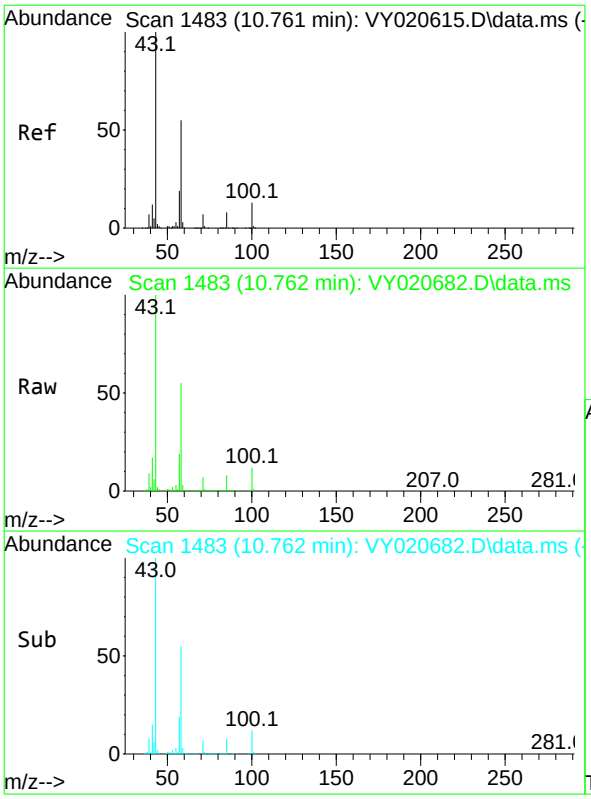




#58
2-Chloroethyl Vinyl ether
Concen: 318.460 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 63 Resp: 269274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.1 | 21.5 | 32.3 |

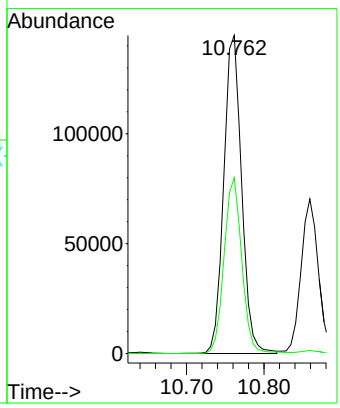





#59
2-Hexanone
Concen: 266.163 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 232450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.6 | 27.2 | 81.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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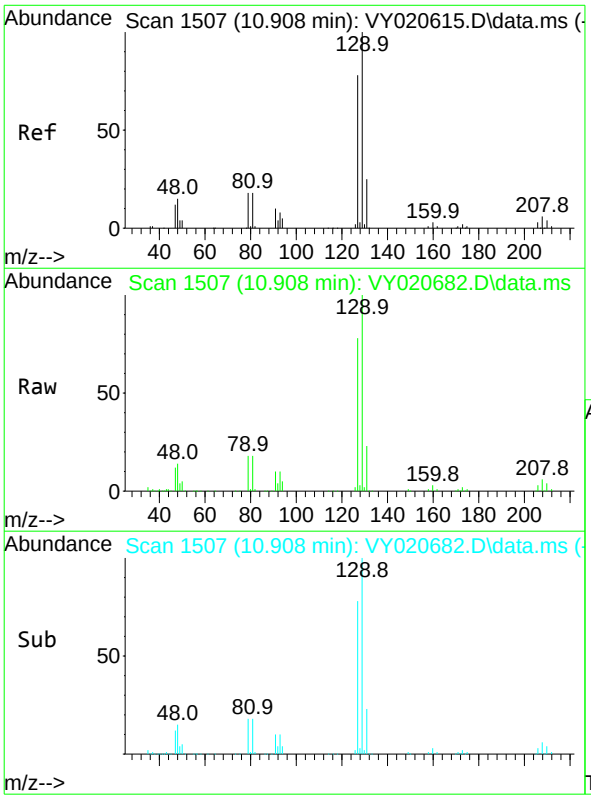
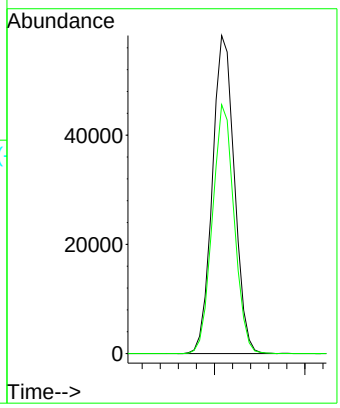
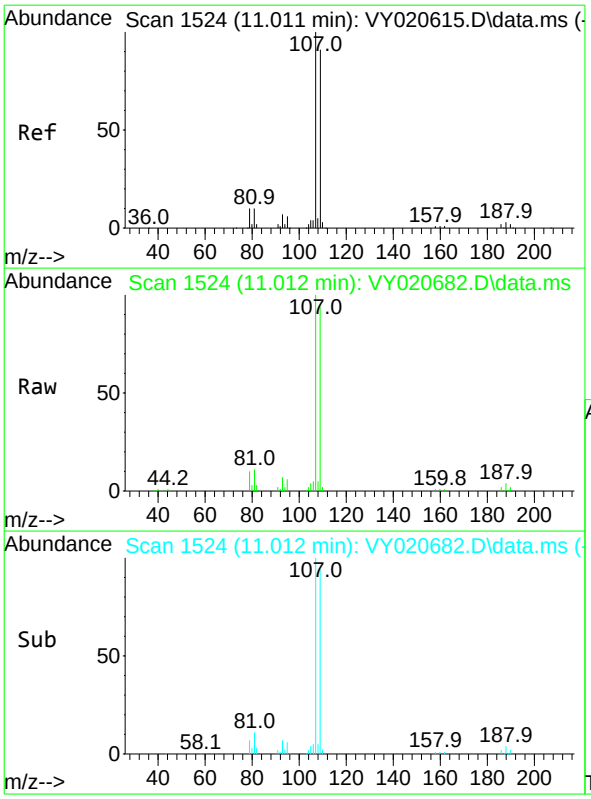



#60
Dibromochloromethane
Concen: 53.204 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:129 Resp: 98561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.2 | 38.1 | 114.3 |

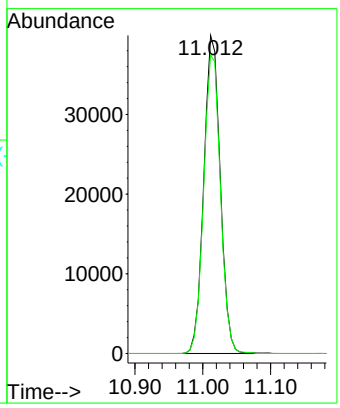





#61
1,2-Dibromoethane
Concen: 52.208 ug/l
RT: 11.012 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:107 Resp: 67268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.7 | 75.4 | 113.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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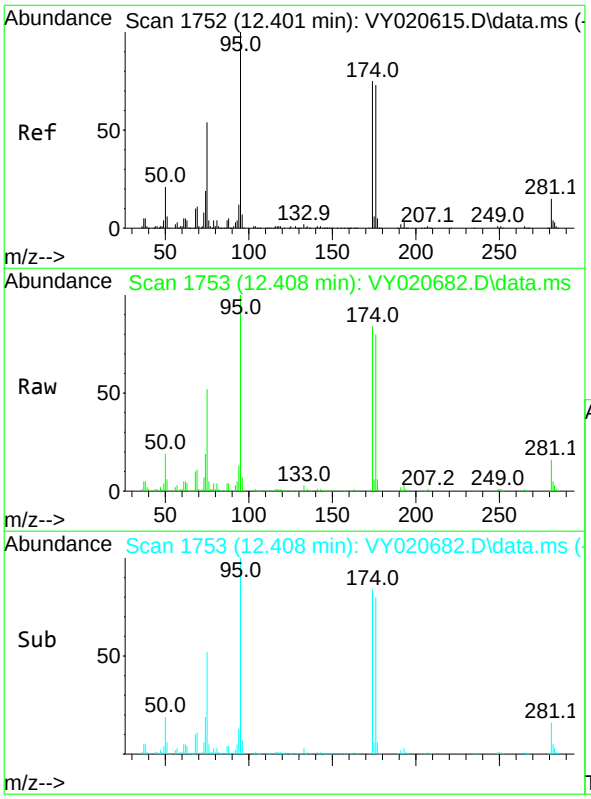
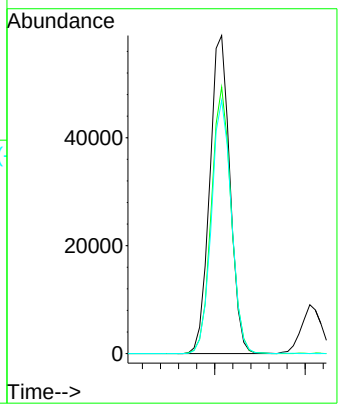
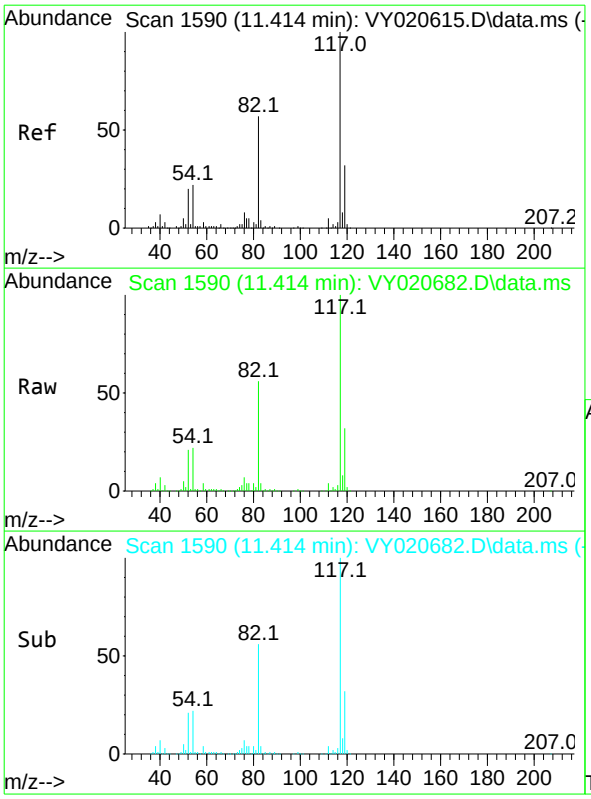



#62
4-Bromofluorobenzene
Concen: 42.042 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 95 Resp: 91351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.6 | 0.0 | 161.8 |
| 176 | 78.8 | 0.0 | 156.6 |

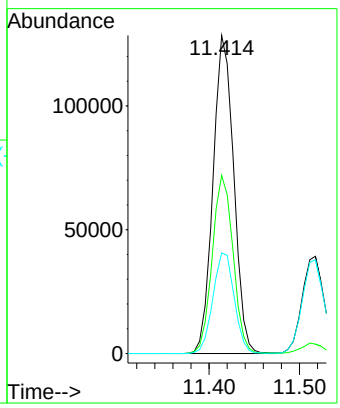





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:117 Resp: 204671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.0 | 45.8 | 68.6 |
| 119 | 31.6 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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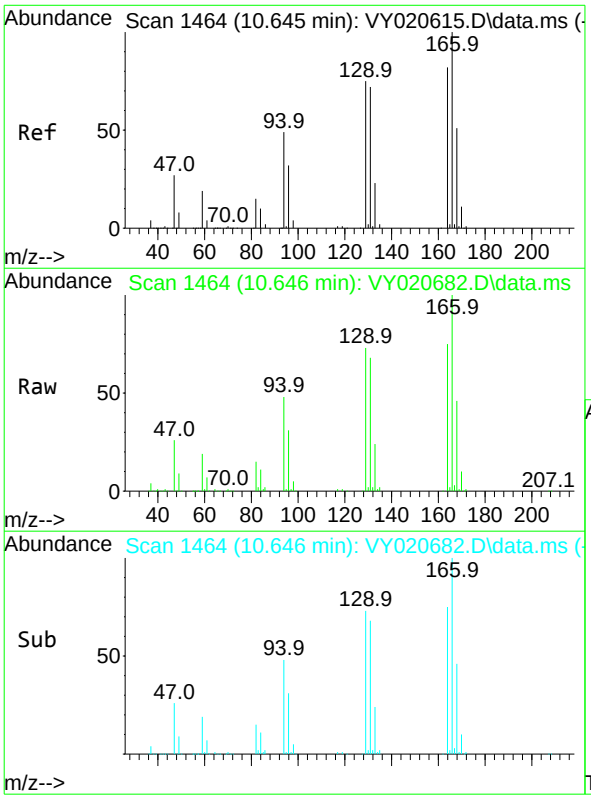
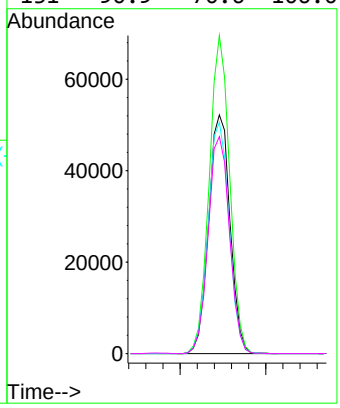
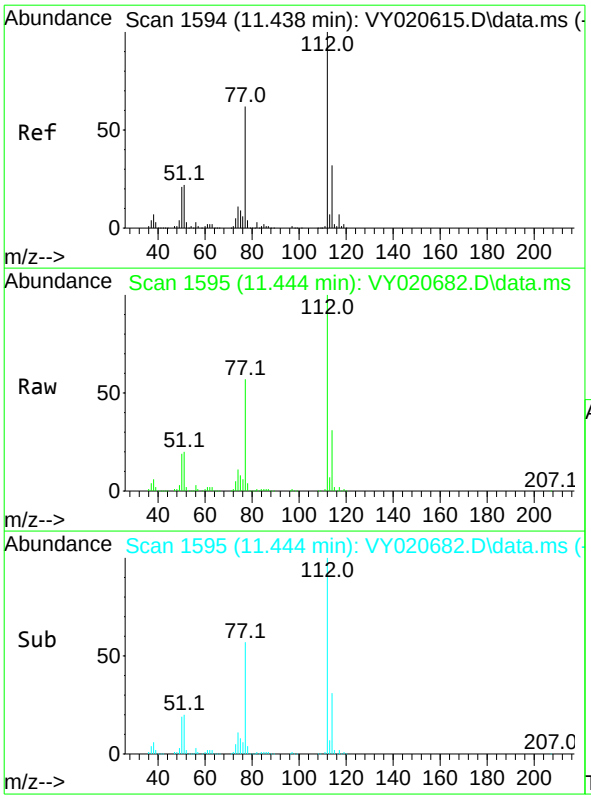



#64
Tetrachloroethene
Concen: 47.125 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:164 Resp: 90723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 133.3 | 97.9 | 146.9 |
| 129 | 96.9 | 73.4 | 110.0 |
| 131 | 90.9 | 70.6 | 106.0 |

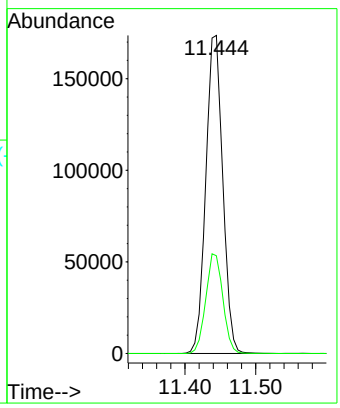





#65
Chlorobenzene
Concen: 50.396 ug/l
RT: 11.444 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:112 Resp: 288406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.7 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
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VSTDCCC050EC

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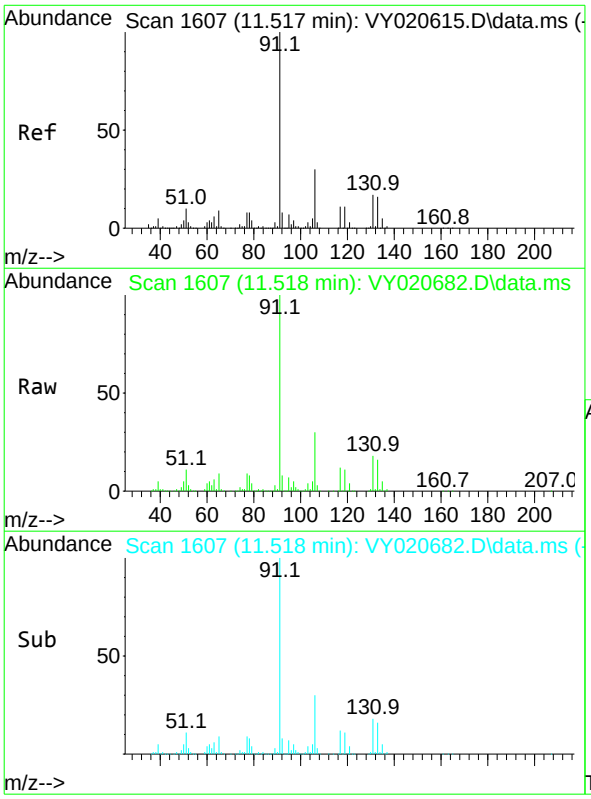
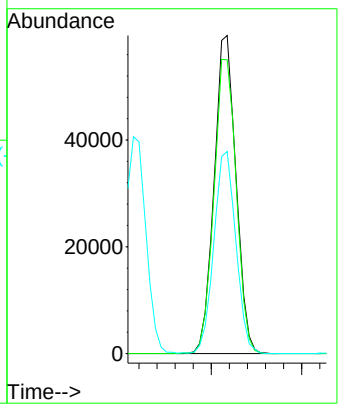
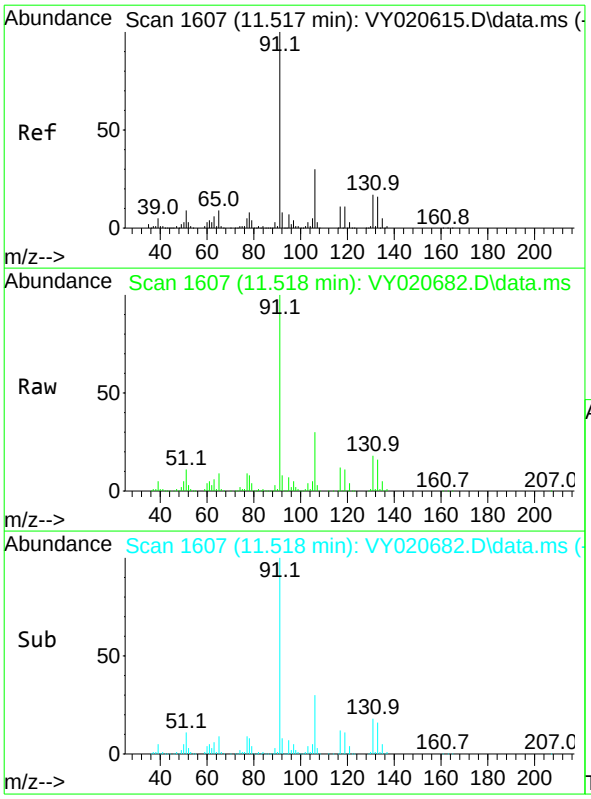



#66
1,1,1,2-Tetrachloroethane
Concen: 51.120 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:131 Resp: 100036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.5 | 46.8 | 140.3 |
| 119 | 64.0 | 31.8 | 95.3 |

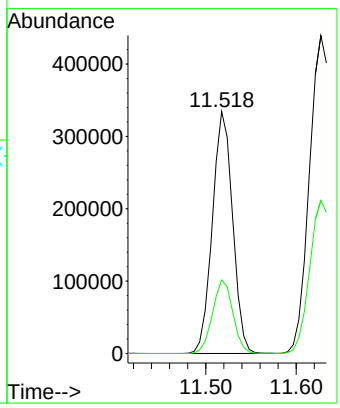





#67
Ethyl Benzene
Concen: 49.283 ug/l
RT: 11.518 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 91 Resp: 520329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 23.9 | 35.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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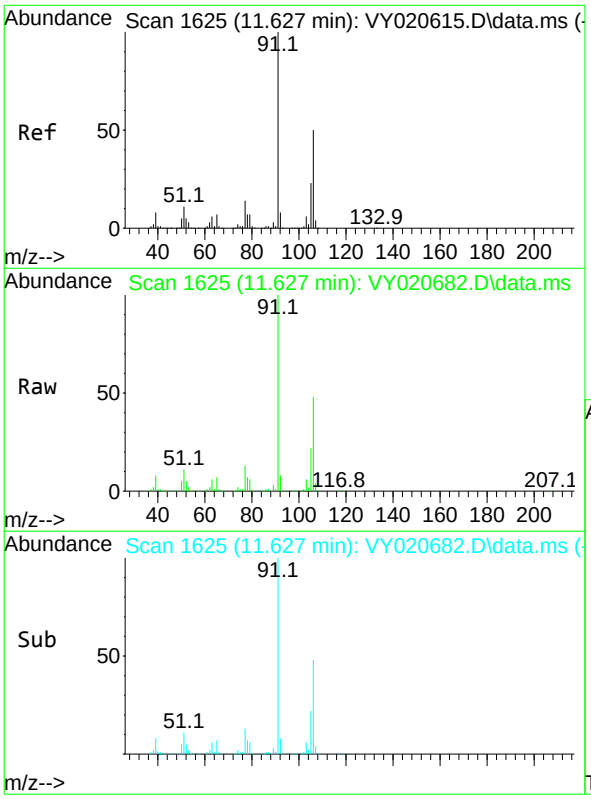
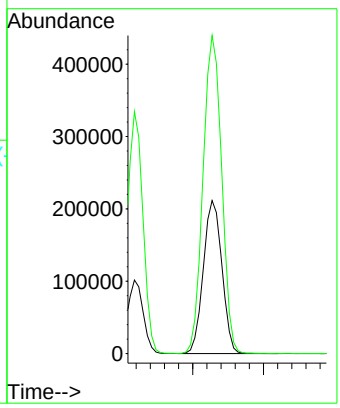
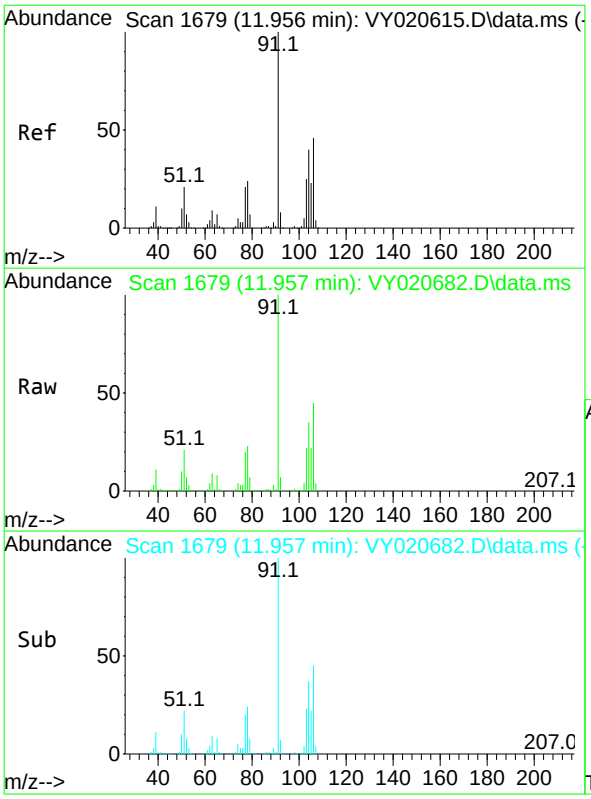



#68
m/p-Xylenes
Concen: 98.385 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:106 Resp: 386215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.9 | 165.0 | 247.4 |

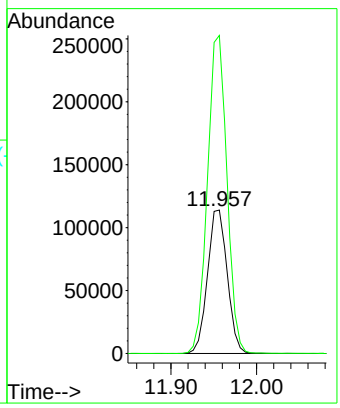





#69
o-Xylene
Concen: 49.791 ug/l
RT: 11.957 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:106 Resp: 182369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.7 | 108.4 | 325.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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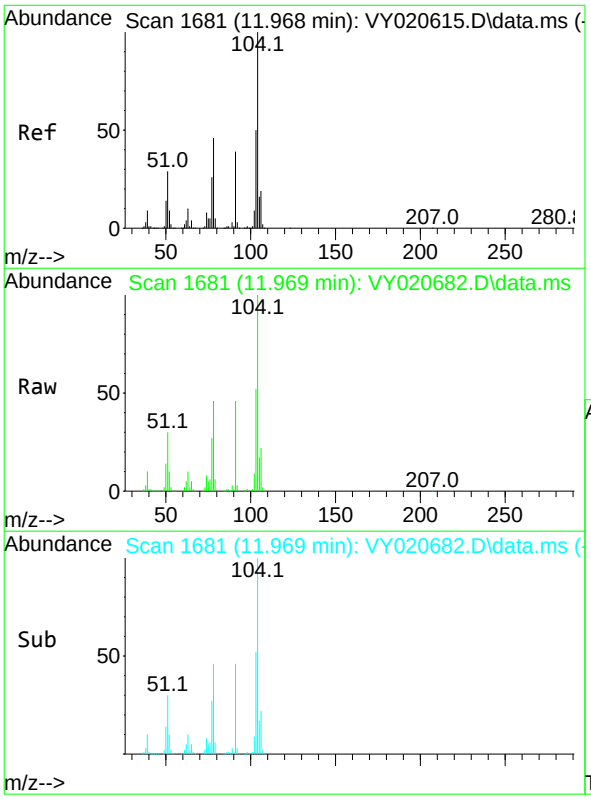
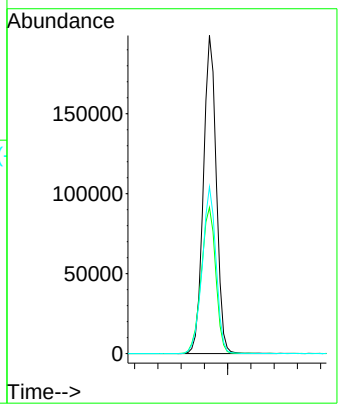
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

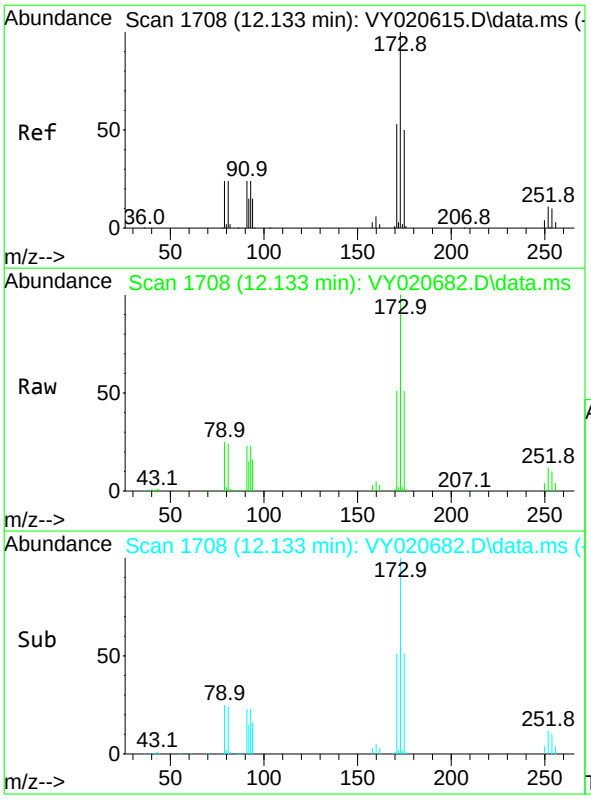



#70
Styrene
Concen: 50.345 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:104 Resp: 308084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.4 | 41.6 | 62.4 |
| 103 | 56.1 | 43.7 | 65.5 |

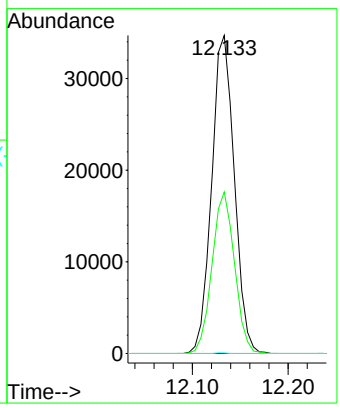





#71
Bromoform
Concen: 51.813 ug/l
RT: 12.133 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:173 Resp: 57006

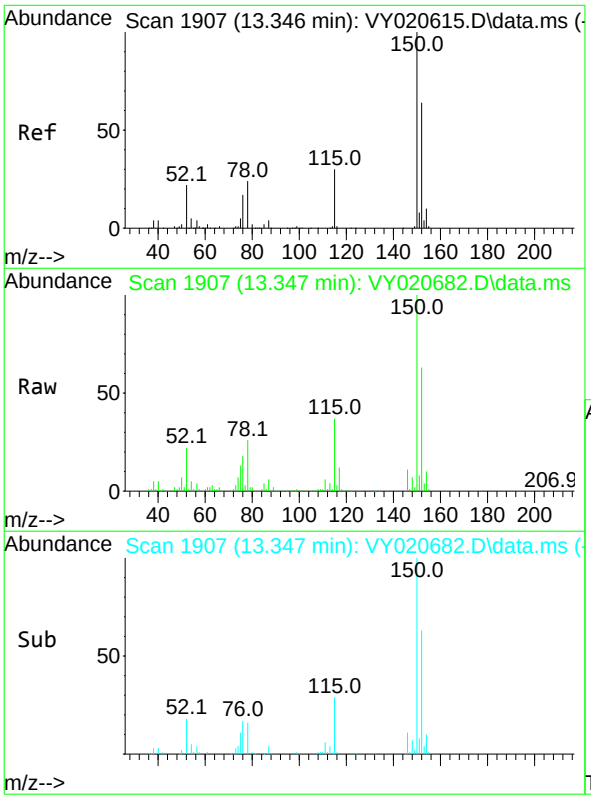
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.2 | 24.6 | 74.0 |
| 254 | 0.1 | 0.0 | 0.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

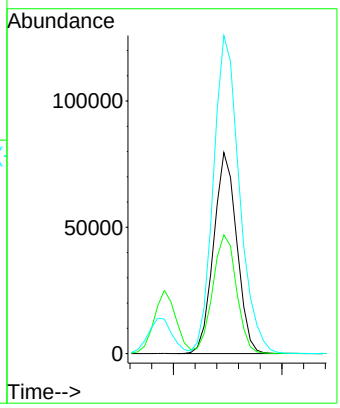
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

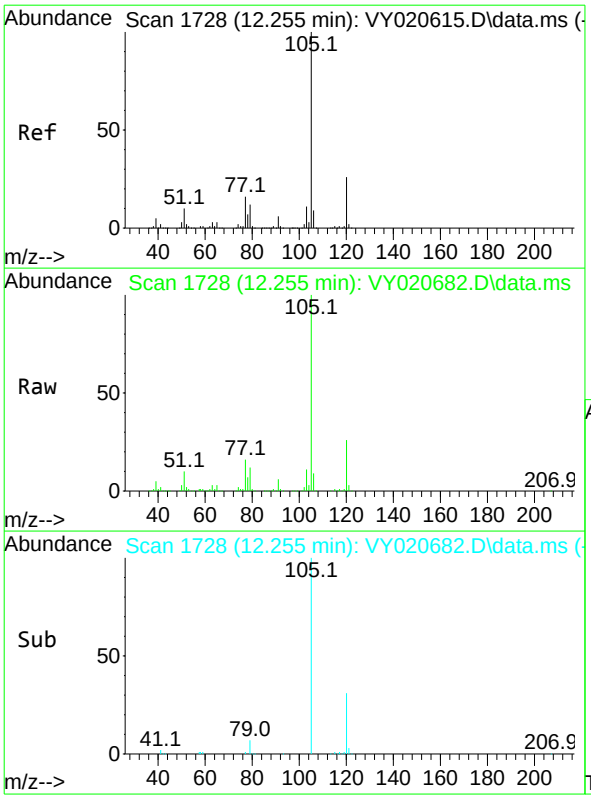



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:152 Resp: 118027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.7 | 30.2 | 90.6 |
| 150 | 177.6 | 0.0 | 355.4 |

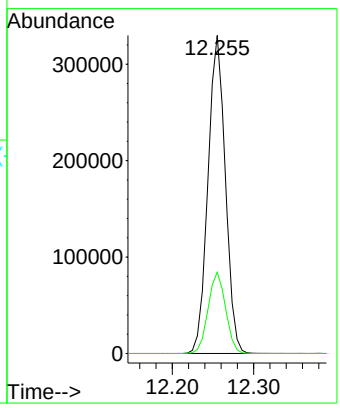





#73
Isopropylbenzene
Concen: 47.402 ug/l
RT: 12.255 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:105 Resp: 488221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.6 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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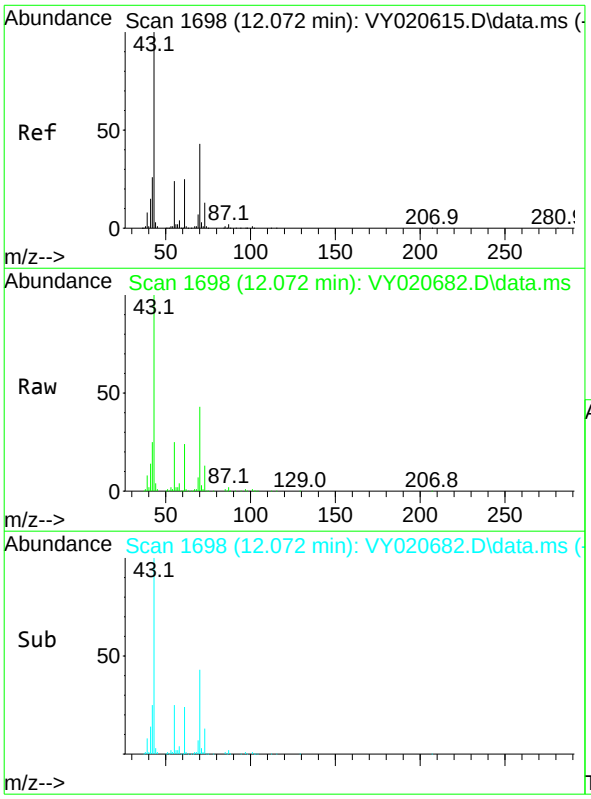
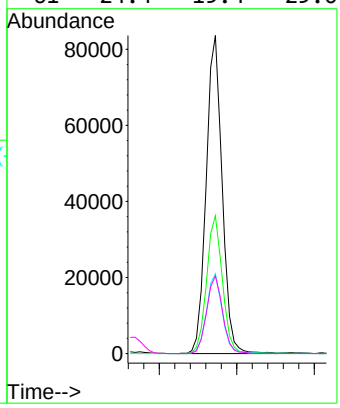
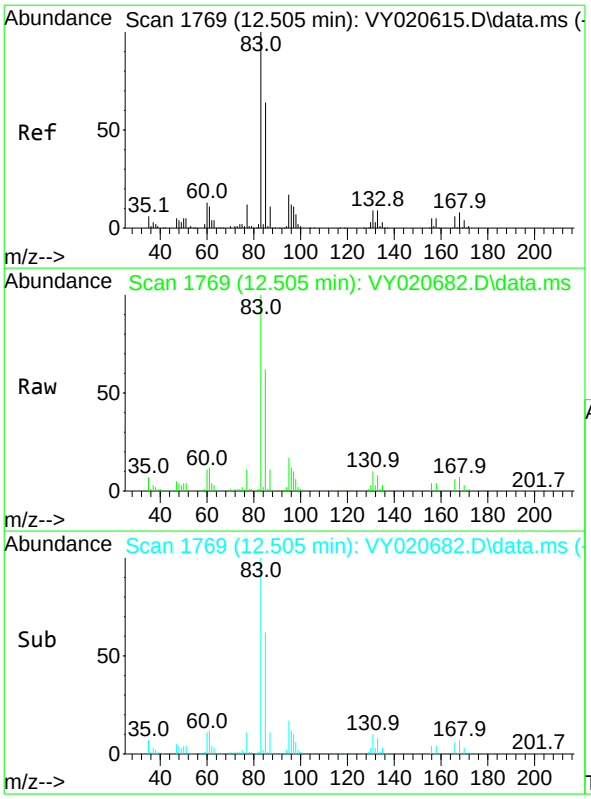



#74
N-amyl acetate
Concen: 49.676 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 119742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.1 | 34.2 | 51.2 |
| 55 | 25.0 | 19.6 | 29.4 |
| 61 | 24.4 | 19.4 | 29.0 |

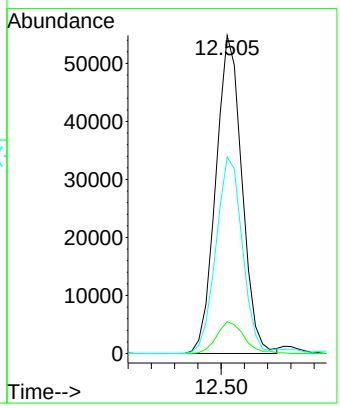





#75
1,1,2,2-Tetrachloroethane
Concen: 51.155 ug/l
RT: 12.505 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 83 Resp: 85524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.5 | 5.2 | 15.6 |
| 85 | 62.4 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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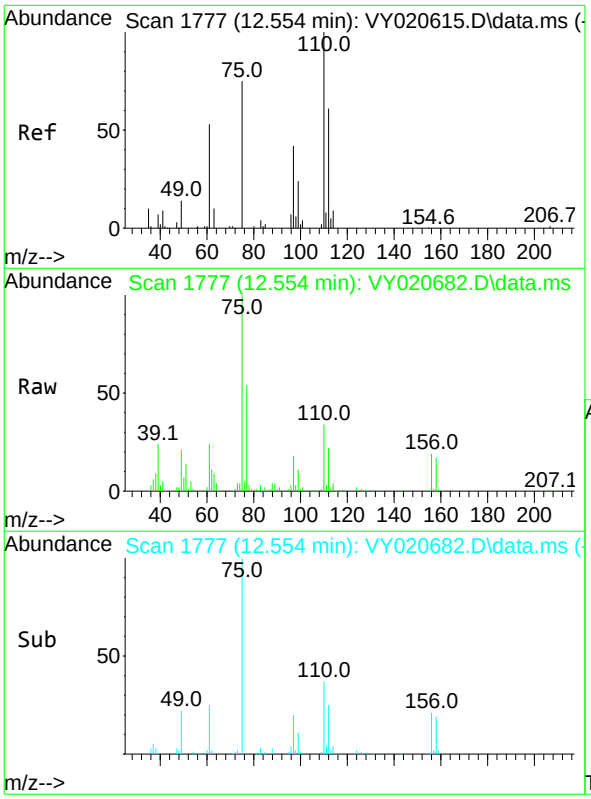
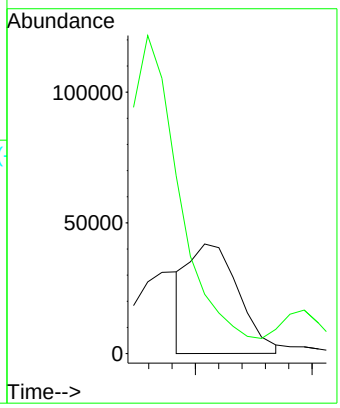
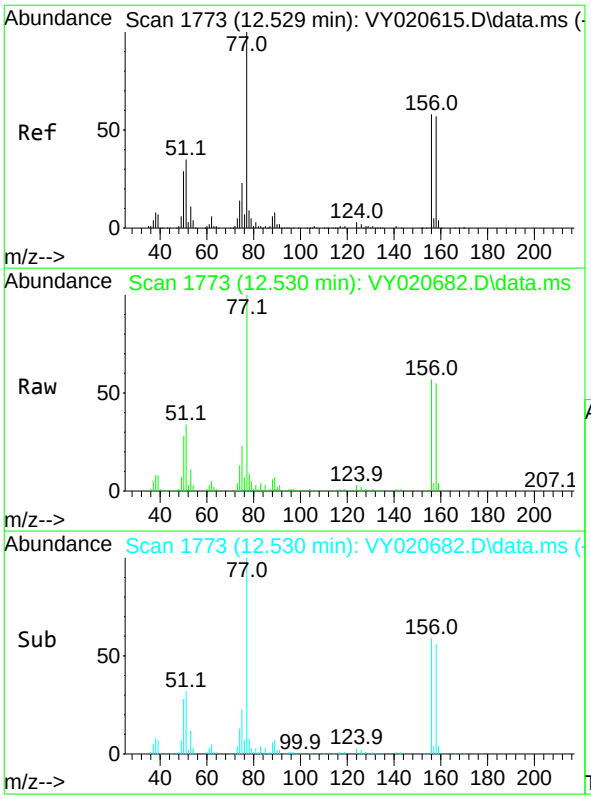



#76
1,2,3-Trichloropropane
Concen: 51.211 ug/l m
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 75 Resp: 62789

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

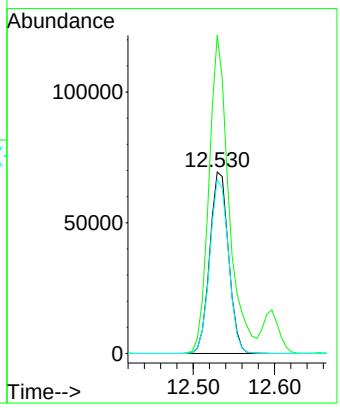





#77
Bromobenzene
Concen: 49.582 ug/l
RT: 12.530 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:156 Resp: 111242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 186.5 | 94.2 | 282.4 |
| 158 | 95.9 | 48.9 | 146.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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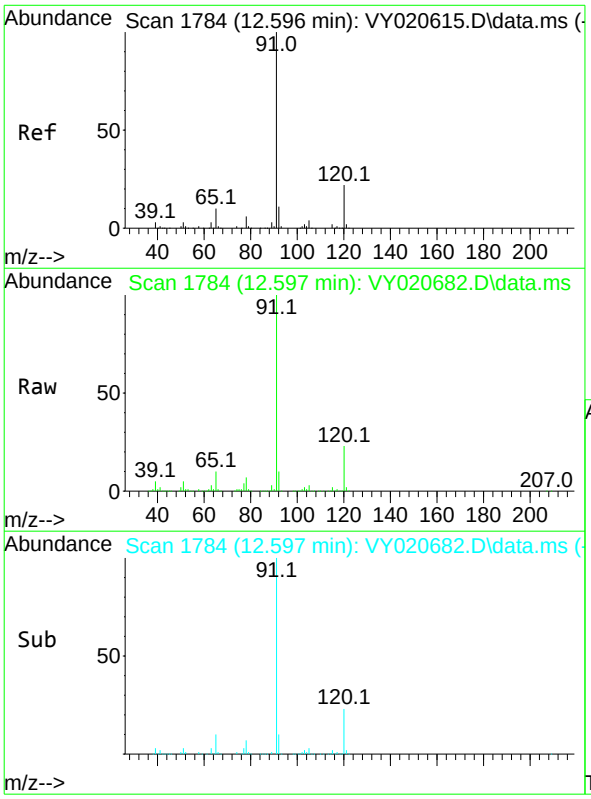
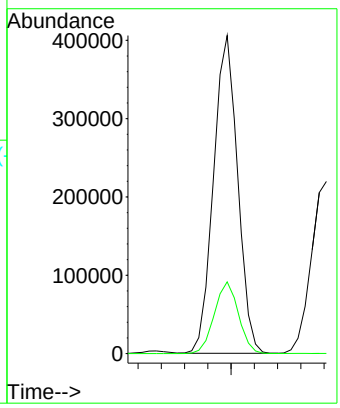
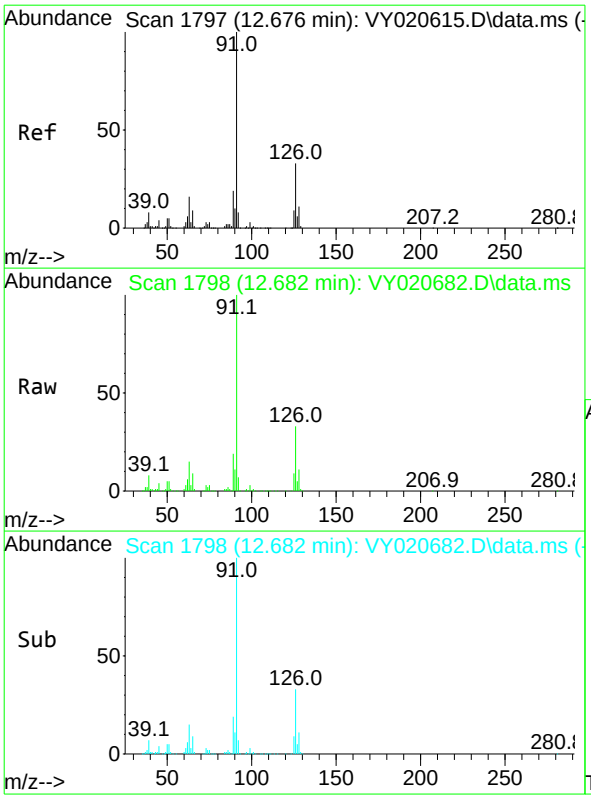



#78
n-propylbenzene
Concen: 47.158 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 91 Resp: 585185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.1 | 33.1 |

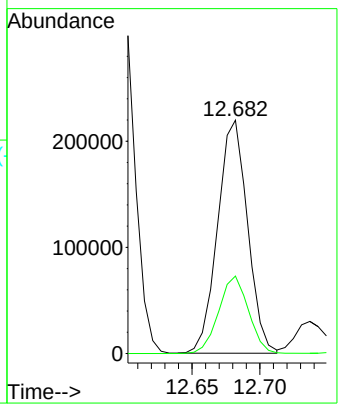





#79
2-Chlorotoluene
Concen: 48.298 ug/l
RT: 12.682 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 91 Resp: 337195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.0 | 16.6 | 49.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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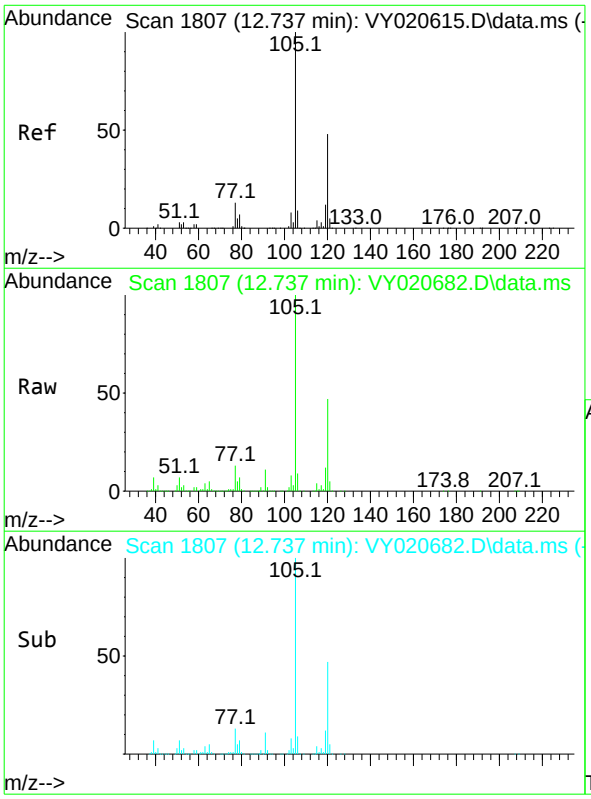
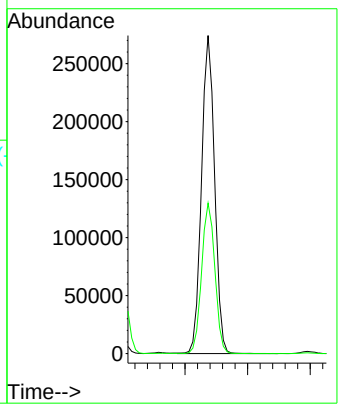
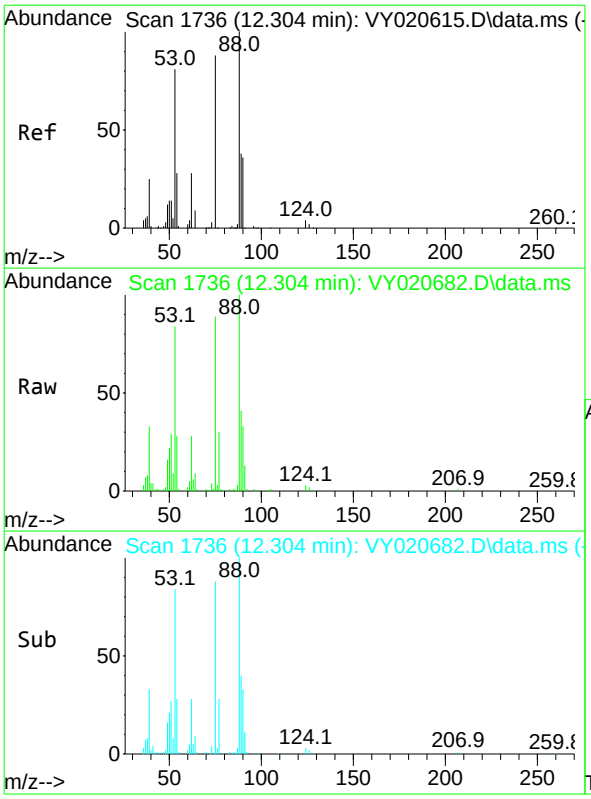



#80
1,3,5-Trimethylbenzene
Concen: 47.693 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:105 Resp: 398582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |

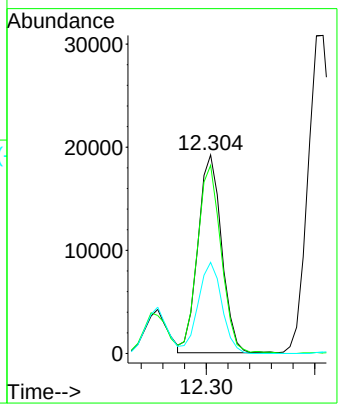





#81
trans-1,4-Dichloro-2-butene
Concen: 49.831 ug/l
RT: 12.304 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 75 Resp: 29107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 96.0 | 75.4 | 113.2 |
| 89 | 46.3 | 37.0 | 55.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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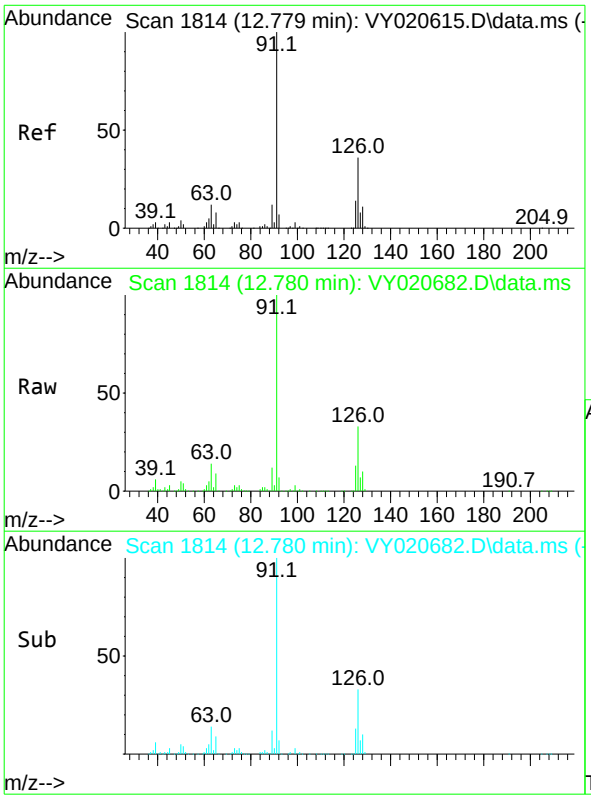
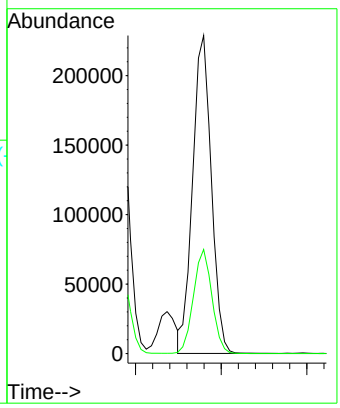
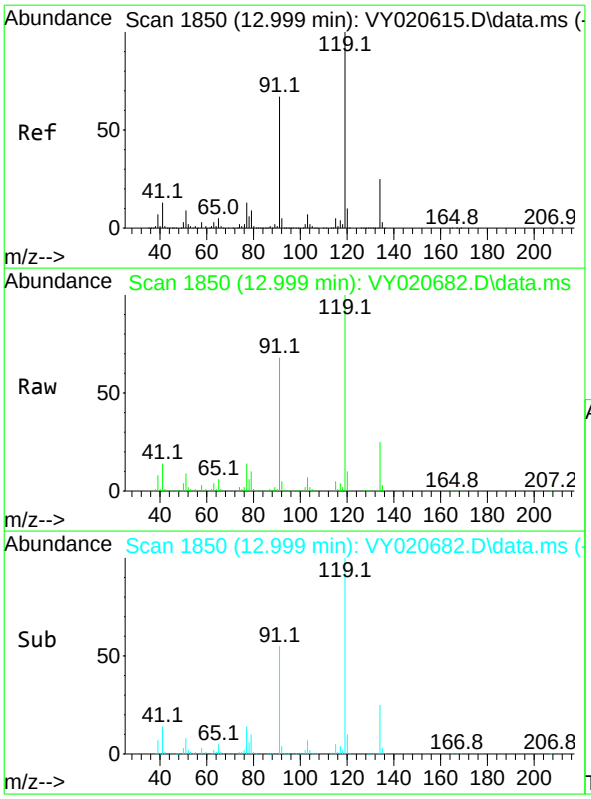



#82
4-Chlorotoluene
Concen: 47.838 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 91 Resp: 346496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.4 | 16.6 | 49.7 |






#83
tert-Butylbenzene
Concen: 47.095 ug/l
RT: 12.999 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:119 Resp: 356447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.4 | 32.9 | 98.6 |
| 134 | 26.6 | 13.1 | 39.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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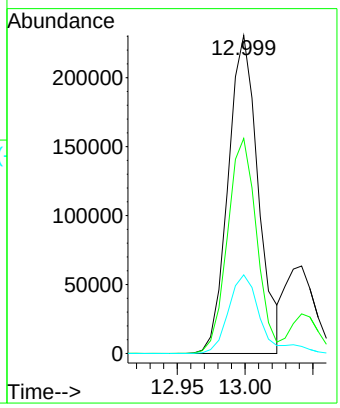
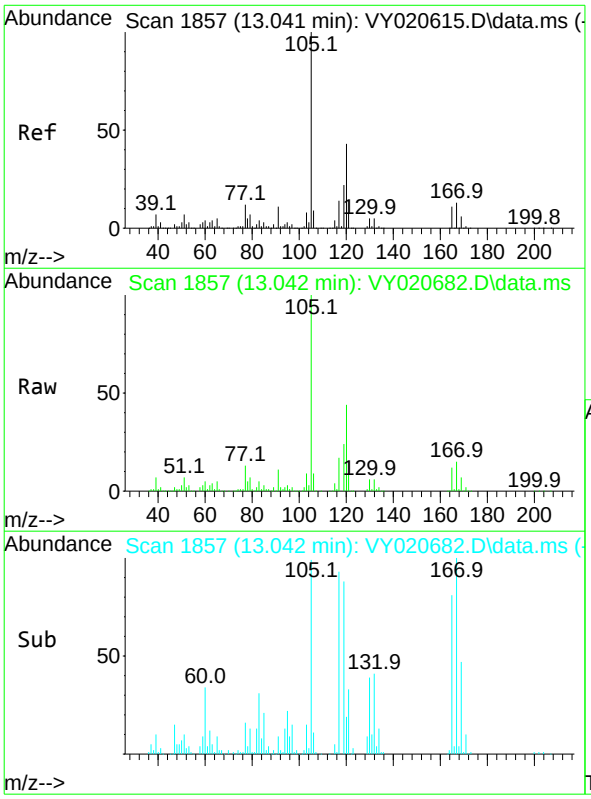
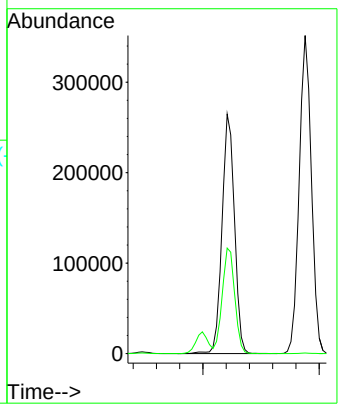


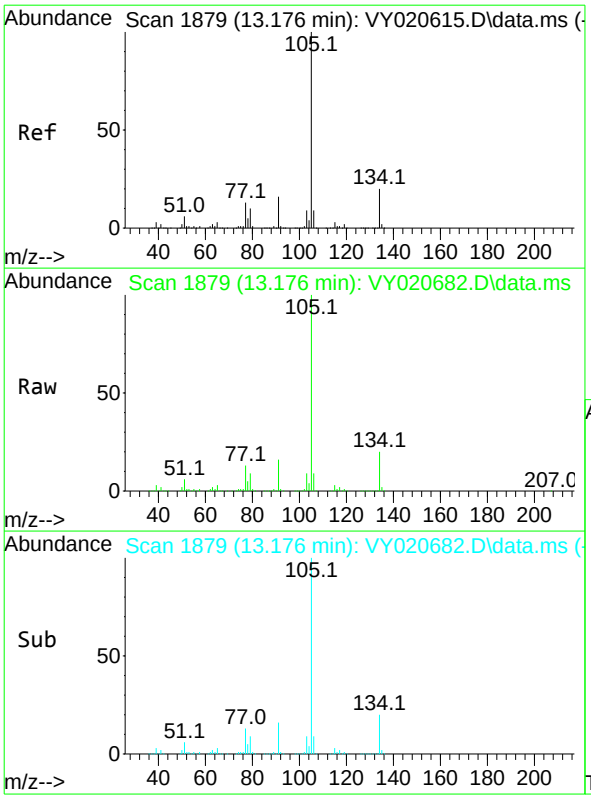




#84
1,2,4-Trimethylbenzene
Concen: 48.012 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:105 Resp: 393582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.1 | 21.8 | 65.4 |

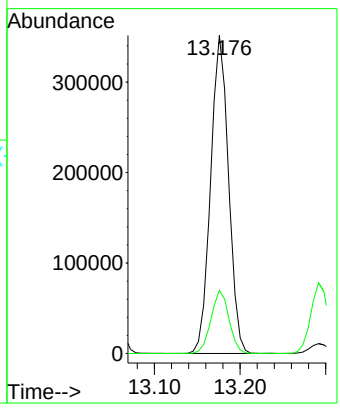





#85
sec-Butylbenzene
Concen: 46.404 ug/l
RT: 13.176 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:105 Resp: 510662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.0 | 30.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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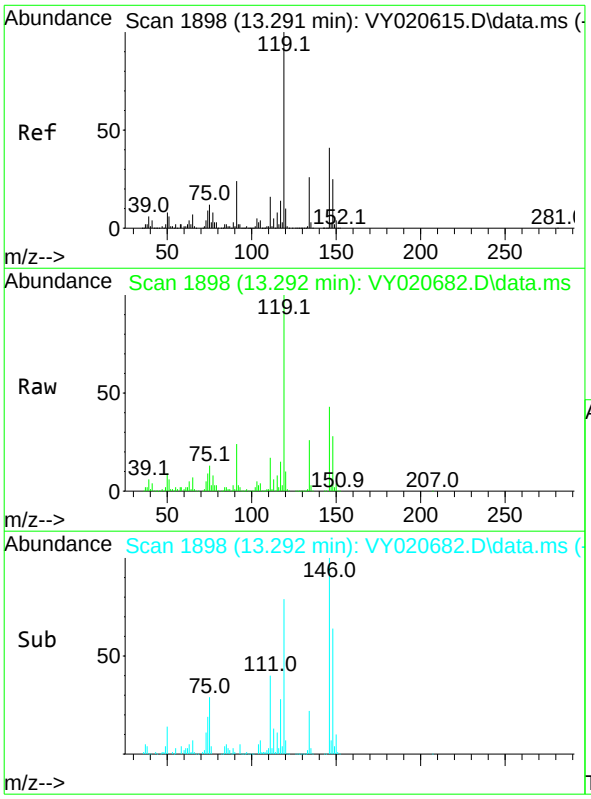
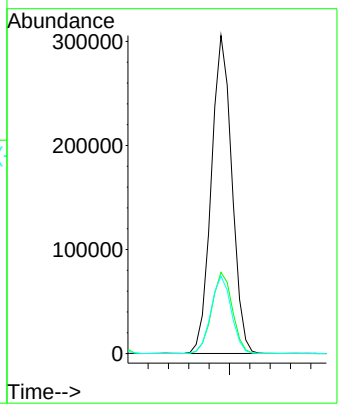
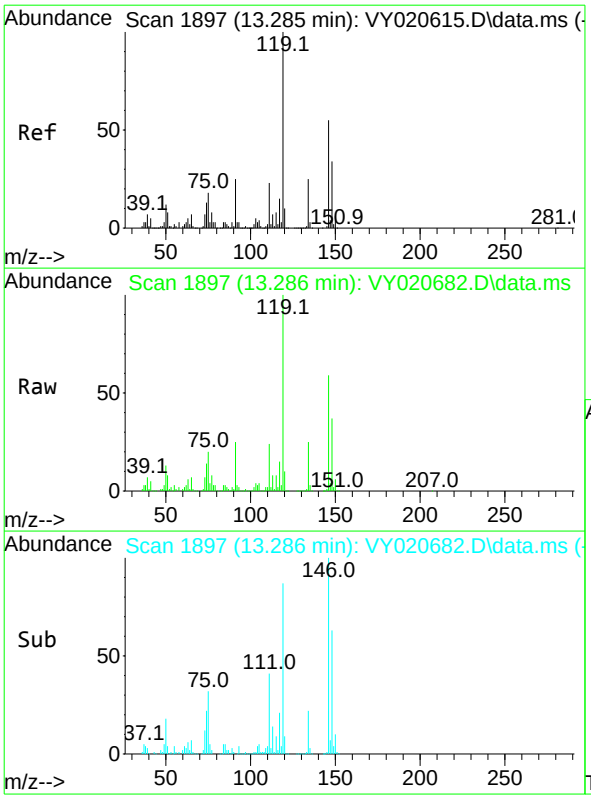



#86
p-Isopropyltoluene
Concen: 47.333 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:119 Resp: 429462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.9 | 38.6 |
| 91 | 24.1 | 12.1 | 36.3 |

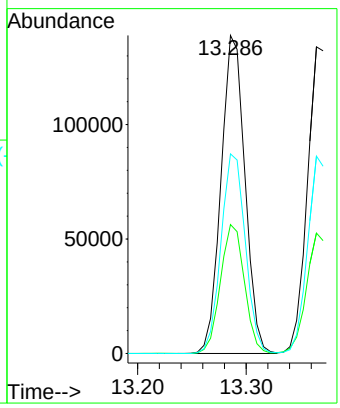





#87
1,3-Dichlorobenzene
Concen: 48.040 ug/l
RT: 13.286 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:146 Resp: 212764

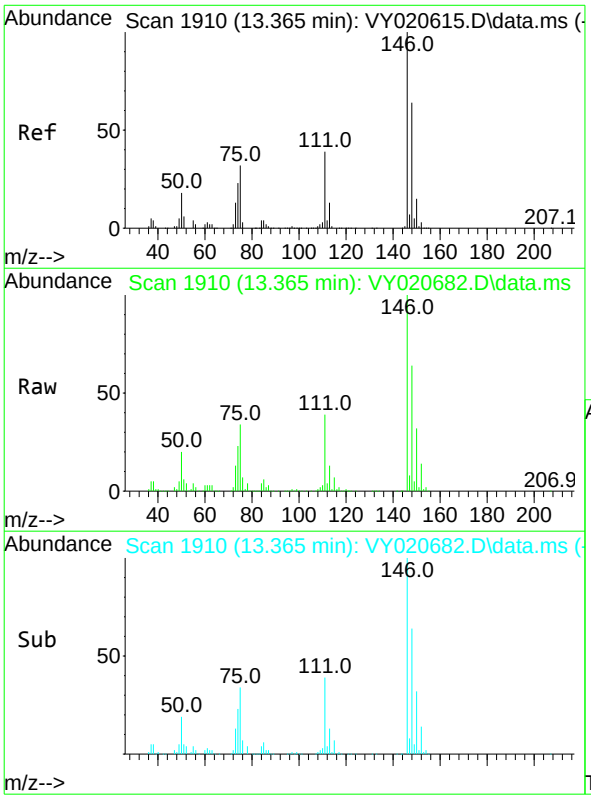
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 20.6 | 61.8 |
| 148 | 63.8 | 31.4 | 94.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

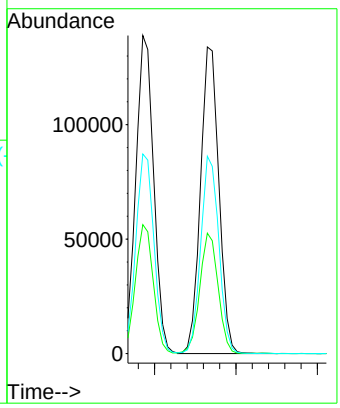
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

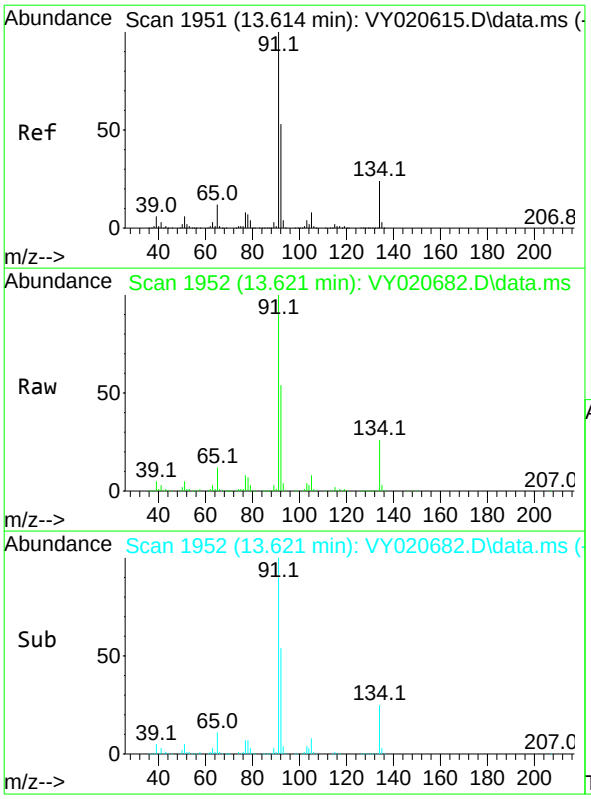



#88
1,4-Dichlorobenzene
Concen: 47.998 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:146 Resp: 210538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.0 | 19.6 | 58.7 |
| 148 | 63.3 | 31.9 | 95.5 |

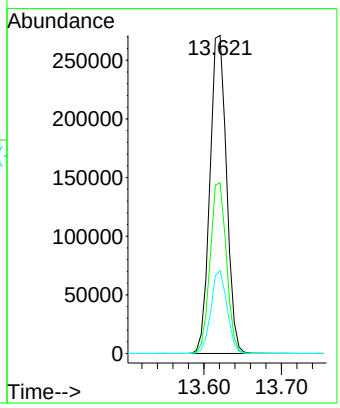





#89
n-Butylbenzene
Concen: 46.895 ug/l
RT: 13.621 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 91 Resp: 403246

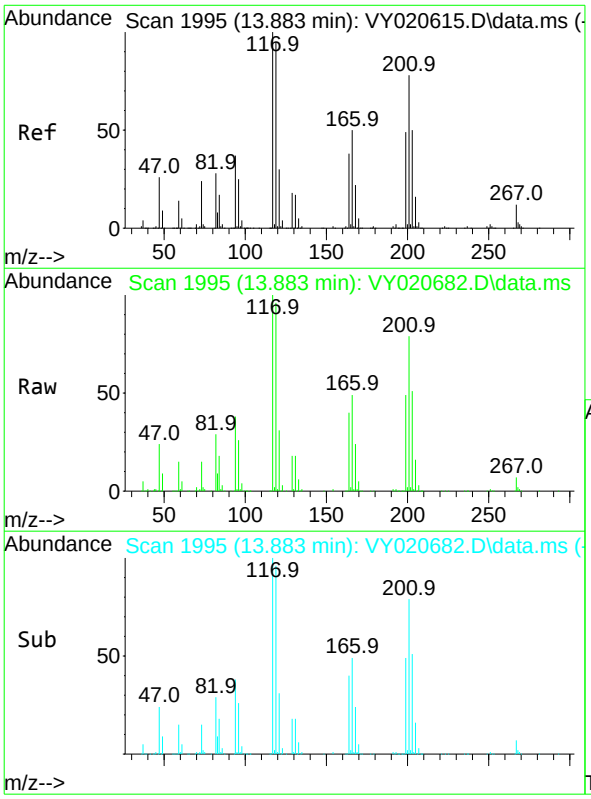
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.9 | 26.8 | 80.4 |
| 134 | 25.4 | 12.5 | 37.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

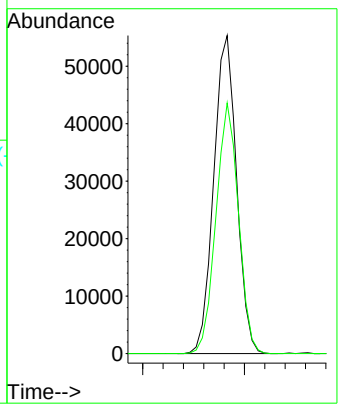
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

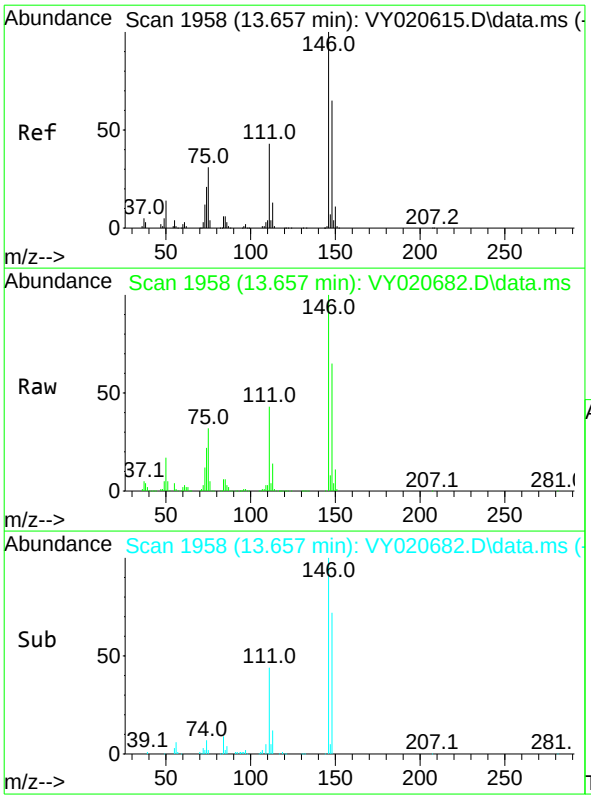



#90
Hexachloroethane
Concen: 47.992 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:117 Resp: 86293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.5 | 39.1 | 117.3 |

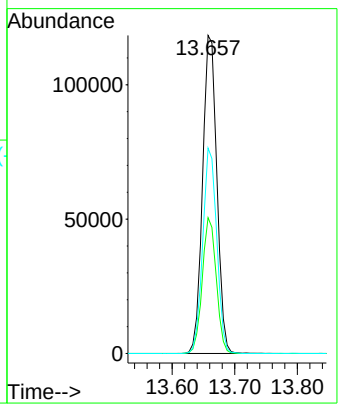





#91
1,2-Dichlorobenzene
Concen: 48.776 ug/l
RT: 13.657 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:146 Resp: 187168

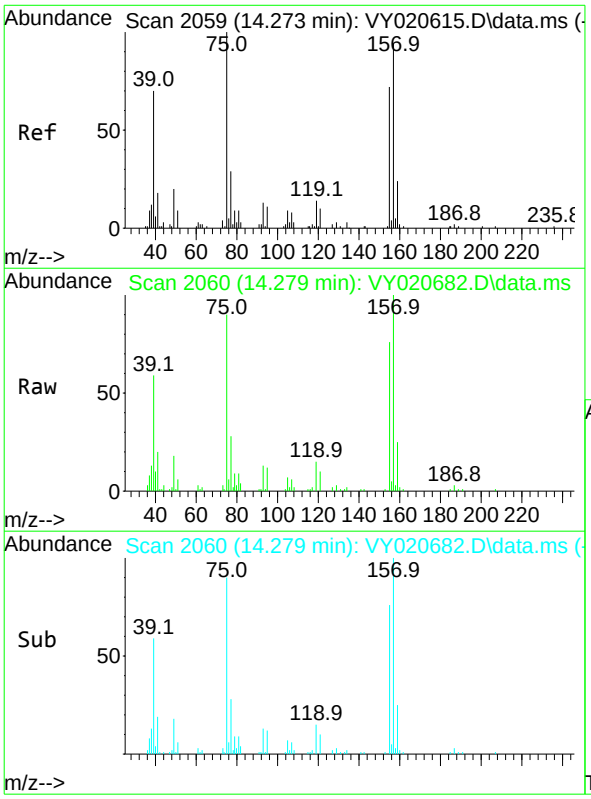
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.9 | 21.3 | 63.7 |
| 148 | 63.6 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

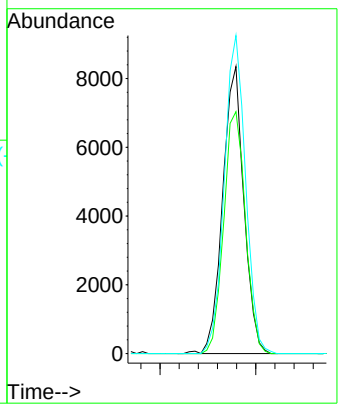
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

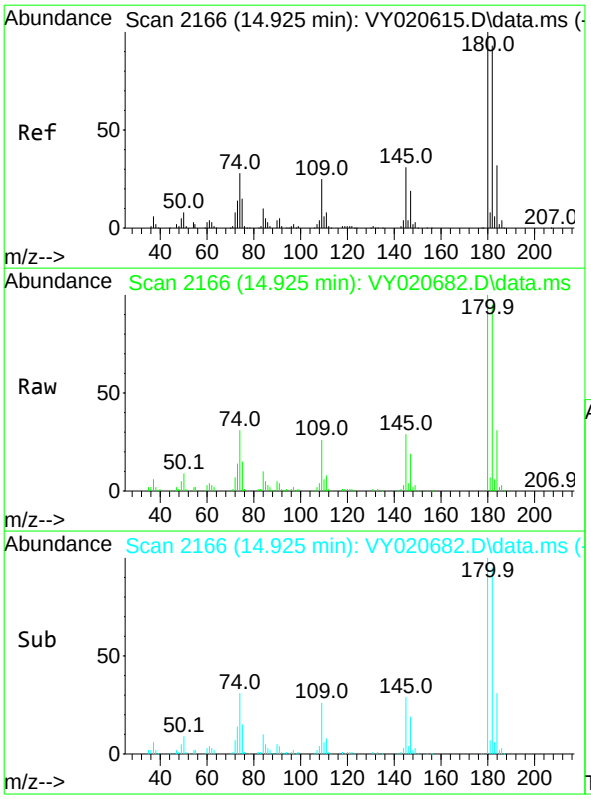



#92
1,2-Dibromo-3-Chloropropane
Concen: 47.271 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 75 Resp: 12831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 86.1 | 41.1 | 123.3 |
| 157 | 111.1 | 52.9 | 158.8 |

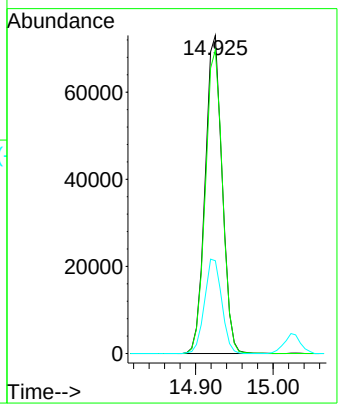





#93
1,2,4-Trichlorobenzene
Concen: 47.858 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:180 Resp: 111082

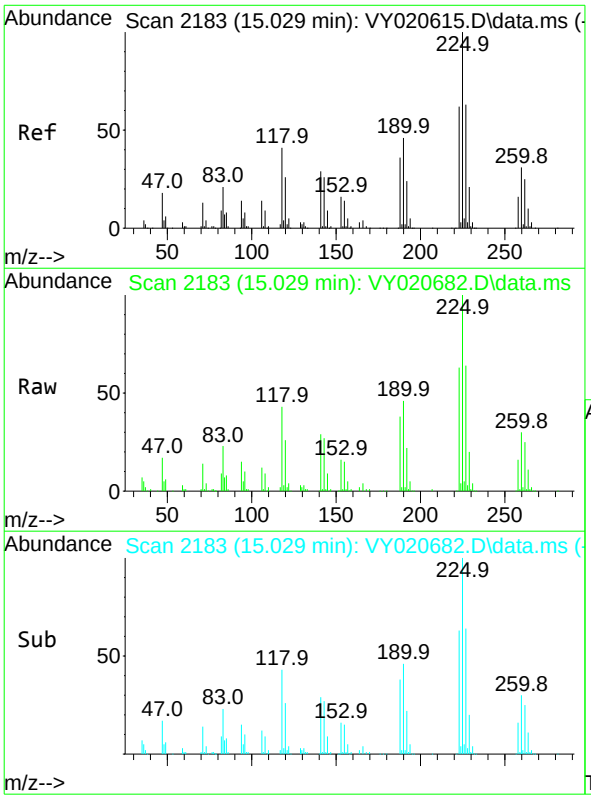
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.2 | 47.9 | 143.6 |
| 145 | 30.1 | 15.6 | 46.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

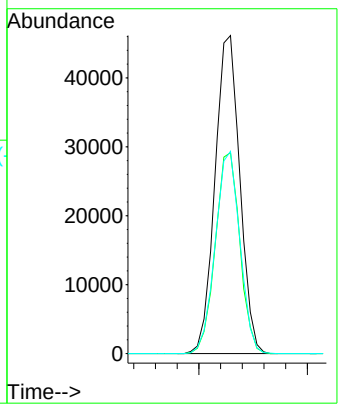
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

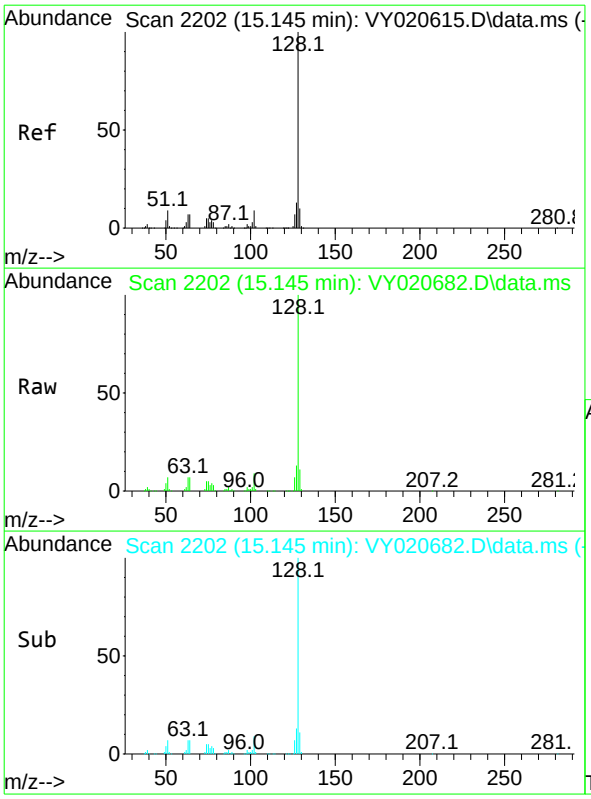



#94
Hexachlorobutadiene
Concen: 48.301 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:225 Resp: 73289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 31.8 | 95.3 |
| 227 | 63.0 | 32.2 | 96.6 |

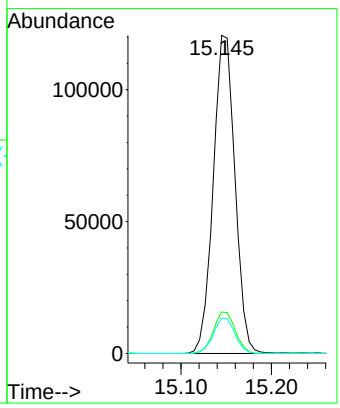





#95
Naphthalene
Concen: 50.583 ug/l
RT: 15.145 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:128 Resp: 201284

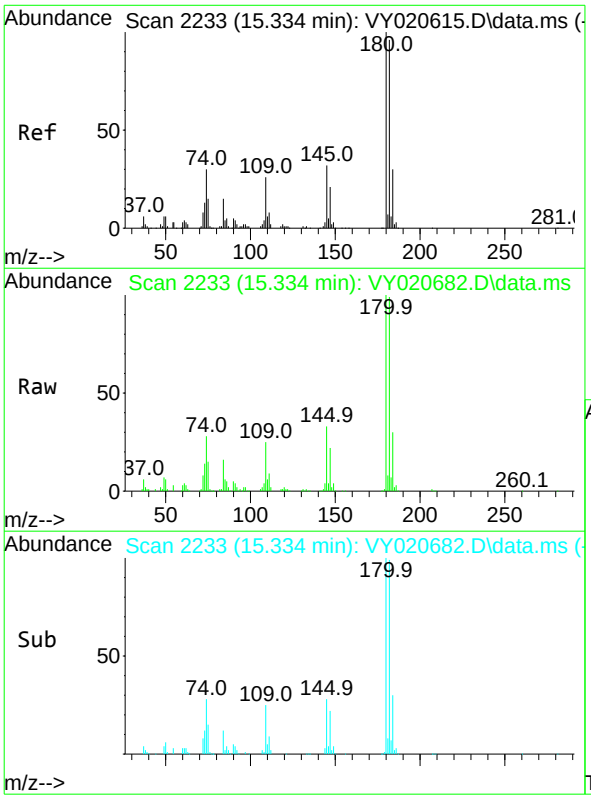
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.7 | 16.1 |
| 129 | 11.1 | 8.5 | 12.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

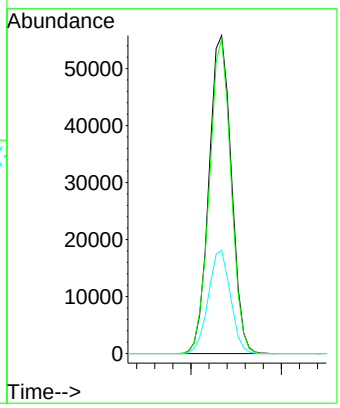
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024




#96
1,2,3-Trichlorobenzene
Concen: 48.917 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:180 Resp: 95931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.3 | 141.9 |
| 145 | 32.1 | 16.0 | 48.0 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 85 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.625 | 0.568 | 9.1 | 78 | 0.00 |
| 3 | P | Chloromethane | 0.463 | 0.410 | 11.4 | 81 | 0.00 |
| 4 | C | Vinyl Chloride | 0.431 | 0.262 | 39.2# | 60 | 0.00 |
| 5 | T | Bromomethane | 0.277 | 0.190 | 31.4# | 70 | 0.00 |
| 6 | T | Chloroethane | 0.266 | 0.166 | 37.6# | 66 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.901 | 0.677 | 24.9 | 73 | 0.00 |
| 8 | T | Diethyl Ether | 0.316 | 0.265 | 16.1 | 77 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.646 | 0.506 | 21.7 | 71 | 0.00 |
| 10 | T | Methyl Iodide | 0.719 | 0.619 | 13.9 | 76 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.071 | 0.050 | 29.6# | 85 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.627 | 0.500 | 20.3# | 72 | 0.00 |
| 13 | T | Acrolein | 0.026 | 0.015 | 42.3# | 74 | 0.00 |
| 14 | T | Allyl chloride | 1.098 | 0.963 | 12.3 | 80 | 0.00 |
| 15 | T | Acrylonitrile | 0.151 | 0.159 | -5.3 | 87 | 0.00 |
| 16 | T | Acetone | 0.125 | 0.087 | 30.4# | 75 | 0.00 |
| 17 | T | Carbon Disulfide | 2.040 | 1.675 | 17.9 | 73 | 0.00 |
| 18 | T | Methyl Acetate | 0.373 | 0.346 | 7.2 | 84 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 1.618 | 1.685 | -4.1 | 86 | 0.00 |
| 20 | T | Methylene Chloride | 0.681 | 0.659 | 3.2 | 91 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.703 | 0.713 | -1.4 | 85 | 0.00 |
| 22 | T | Diisopropyl ether | 2.229 | 2.346 | -5.2 | 87 | 0.00 |
| 23 | T | Vinyl Acetate | 1.263 | 1.345 | -6.5 | 87 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.306 | 1.366 | -4.6 | 88 | 0.00 |
| 25 | T | 2-Butanone | 0.204 | 0.202 | 1.0 | 87 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.235 | 1.127 | 8.7 | 81 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.809 | 0.836 | -3.3 | 87 | 0.00 |
| 28 | T | Bromochloromethane | 0.441 | 0.573 | -29.9# | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.128 | 0.138 | -7.8 | 88 | 0.00 |
| 30 | C | Chloroform | 1.528 | 1.423 | 6.9# | 88 | 0.00 |
| 31 | T | Cyclohexane | 1.249 | 1.106 | 11.4 | 78 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.200 | 1.204 | -0.3 | 85 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.548 | 0.472 | 13.9 | 71 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 86 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.352 | 0.311 | 11.6 | 74 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.643 | 0.626 | 2.6 | 84 | 0.00 |
| 37 | T | Ethyl Acetate | 0.302 | 0.306 | -1.3 | 88 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.711 | 0.692 | 2.7 | 85 | 0.00 |
| 39 | T | Methylcyclohexane | 0.837 | 0.736 | 12.1 | 76 | 0.00 |
| 40 | TM | Benzene | 1.883 | 1.905 | -1.2 | 88 | 0.00 |
| 41 | T | Methacrylonitrile | 0.160 | 0.156 | 2.5 | 86 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.515 | -3.0 | 88 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.572 | 0.589 | -3.0 | 87 | 0.00 |
| 44 | TM | Trichloroethene | 0.463 | 0.463 | 0.0 | 87 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.440 | 0.457 | -3.9# | 90 | 0.00 |
| 46 | T | Dibromomethane | 0.233 | 0.245 | -5.2 | 91 | 0.00 |
| 47 | T | Bromodichloromethane | 0.628 | 0.662 | -5.4 | 90 | 0.00 |
| 48 | T | Methyl methacrylate | 0.272 | 0.286 | -5.1 | 89 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.003 | 0.003 | 0.0 | 91 | 0.00 |
| 50 | S | Toluene-d8 | 1.233 | 1.049 | 14.9 | 71 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.302 | 0.308 | -2.0 | 88 | 0.00 |
| 52 | CM | Toluene | 1.170 | 1.198 | -2.4# | 88 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.586 | 0.609 | -3.9 | 86 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.694 | 0.716 | -3.2 | 87 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.308 | 0.321 | -4.2 | 90 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.446 | 0.475 | -6.5 | 88 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.548 | 0.576 | -5.1 | 89 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.188 | 0.239 | -27.1# | 119 | 0.00 |
| 59 | T | 2-Hexanone | 0.194 | 0.206 | -6.2 | 89 | 0.00 |
| 60 | T | Dibromochloromethane | 0.411 | 0.438 | -6.6 | 89 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.286 | 0.299 | -4.5 | 89 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.482 | 0.406 | 15.8 | 72 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 87 | 0.00 |
| 64 | T | Tetrachloroethene | 0.470 | 0.443 | 5.7 | 86 | 0.00 |
| 65 | PM | Chlorobenzene | 1.398 | 1.409 | -0.8 | 90 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.478 | 0.489 | -2.3 | 90 | 0.00 |
| 67 | C | Ethyl Benzene | 2.579 | 2.542 | 1.4# | 87 | 0.00 |
| 68 | T | m/p-Xylenes | 0.959 | 0.944 | 1.6 | 86 | 0.00 |
| 69 | T | o-Xylene | 0.895 | 0.891 | 0.4 | 87 | 0.00 |
| 70 | T | Styrene | 1.495 | 1.505 | -0.7 | 88 | 0.00 |
| 71 | P | Bromoform | 0.269 | 0.279 | -3.7 | 90 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 73 | T | Isopropylbenzene | 4.363 | 4.137 | 5.2 | 86 | 0.00 |
| 74 | T | N-amyl acetate | 1.021 | 1.015 | 0.6 | 86 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.708 | 0.725 | -2.4 | 93 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.519 | 0.532 | -2.5 | 93 | 0.00 |
| 77 | T | Bromobenzene | 0.950 | 0.943 | 0.7 | 90 | 0.00 |
| 78 | T | n-propylbenzene | 5.257 | 4.958 | 5.7 | 85 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.958 | 2.857 | 3.4 | 88 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.540 | 3.377 | 4.6 | 86 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.247 | 0.247 | 0.0 | 87 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.068 | 2.936 | 4.3 | 87 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.206 | 3.020 | 5.8 | 85 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.473 | 3.335 | 4.0 | 86 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.662 | 4.327 | 7.2 | 84 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.844 | 3.639 | 5.3 | 84 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.876 | 1.803 | 3.9 | 88 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.858 | 1.784 | 4.0 | 88 | 0.00 |
| 89 | T | n-Butylbenzene | 3.643 | 3.417 | 6.2 | 83 | 0.00 |
| 90 | T | Hexachloroethane | 0.762 | 0.731 | 4.1 | 87 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.626 | 1.586 | 2.5 | 90 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.115 | 0.109 | 5.2 | 87 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.983 | 0.941 | 4.3 | 84 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.643 | 0.621 | 3.4 | 86 | 0.00 |
| 95 | T | Naphthalene | 1.686 | 1.705 | -1.1 | 88 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.831 | 0.813 | 2.2 | 85 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 85 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 45.502 | 9.0 | 78 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 44.285 | 11.4 | 81 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 30.430 | 39.1# | 60 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 34.241 | 31.5# | 70 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 31.154 | 37.7# | 66 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 37.582 | 24.8 | 73 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 41.896 | 16.2 | 77 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 39.189 | 21.6 | 71 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 43.050 | 13.9 | 76 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 213.879 | 14.4 | 85 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 39.896 | 20.2# | 72 | 0.00 |
| 13 | T | Acrolein | 250.000 | 145.691 | 41.7# | 74 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 43.827 | 12.3 | 80 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 262.307 | -4.9 | 87 | 0.00 |
| 16 | T | Acetone | 250.000 | 198.675 | 20.5 | 75 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 41.052 | 17.9 | 73 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 46.480 | 7.0 | 84 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.095 | -4.2 | 86 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 48.394 | 3.2 | 91 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.685 | -1.4 | 85 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 52.616 | -5.2 | 87 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 266.302 | -6.5 | 87 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 52.280 | -4.6 | 88 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 247.823 | 0.9 | 87 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 45.653 | 8.7 | 81 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.699 | -3.4 | 87 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 65.015 | -30.0# | 98 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 268.209 | -7.3 | 88 | 0.00 |
| 30 | C | Chloroform | 50.000 | 54.780 | -9.6# | 88 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 44.289 | 11.4 | 78 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 50.188 | -0.4 | 85 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 43.111 | 13.8 | 71 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 86 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 44.159 | 11.7 | 74 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.693 | 2.6 | 84 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 50.601 | -1.2 | 88 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 48.699 | 2.6 | 85 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 43.957 | 12.1 | 76 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.578 | -1.2 | 88 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 48.692 | 2.6 | 86 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 51.589 | -3.2 | 88 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 51.476 | -3.0 | 87 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.065 | -0.1 | 87 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.953 | -3.9# | 90 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 52.734 | -5.5 | 91 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 52.643 | -5.3 | 90 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 52.516 | -5.0 | 89 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1069.318 | -6.9 | 91 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 42.543 | 14.9 | 71 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 255.175 | -2.1 | 88 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.164 | -2.3# | 88 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.983 | -4.0 | 86 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.582 | -3.2 | 87 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 52.160 | -4.3 | 90 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 53.177 | -6.4 | 88 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.533 | -5.1 | 89 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 318.460 | -27.4# | 119 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 266.163 | -6.5 | 89 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 53.204 | -6.4 | 89 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 52.208 | -4.4 | 89 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 42.042 | 15.9 | 72 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 87 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 47.125 | 5.8 | 86 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.396 | -0.8 | 90 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.120 | -2.2 | 90 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.283 | 1.4# | 87 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 98.385 | 1.6 | 86 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 49.791 | 0.4 | 87 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.345 | -0.7 | 88 | 0.00 |
| 71 | P | Bromoform | 50.000 | 51.813 | -3.6 | 90 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 91 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 47.402 | 5.2 | 86 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 49.676 | 0.6 | 86 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 51.155 | -2.3 | 93 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 51.211 | -2.4 | 93 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.582 | 0.8 | 90 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 47.158 | 5.7 | 85 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 48.298 | 3.4 | 88 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 47.693 | 4.6 | 86 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.831 | 0.3 | 87 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 47.838 | 4.3 | 87 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 47.095 | 5.8 | 85 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 48.012 | 4.0 | 86 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 46.404 | 7.2 | 84 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 47.333 | 5.3 | 84 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 48.040 | 3.9 | 88 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 47.998 | 4.0 | 88 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 46.895 | 6.2 | 83 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 47.992 | 4.0 | 87 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.776 | 2.4 | 90 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 47.271 | 5.5 | 87 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 47.858 | 4.3 | 84 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 48.301 | 3.4 | 86 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 50.583 | -1.2 | 88 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 48.917 | 2.2 | 85 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Alliance TECHNICAL GROUP

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

## VOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: P5316 SAS No.: P5316 SDG No.: P5316

Instrument ID: MSVOA_Y Calibration Date/Time: 12/26/2024 19:34

Lab File ID: VY020728.D Init. Calib. Date(s): 12/26/2024 12/26/2024

Heated Purge: (Y/N) Y Init. Calib. Time(s): 09:31 11:51

GC Column: RXI-624 ID: 0.25 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Vinyl Chloride | 0.182 | 0.179 | | -1.65 | 50 |
| 1,1-Dichloroethene | 0.342 | 0.342 | | 0 | 50 |
| Acetone | 0.052 | 0.049 | | -5.77 | 50 |
| Methyl tert-butyl Ether | 0.952 | 0.995 | | 4.52 | 50 |
| Methylene Chloride | 0.338 | 0.368 | | 8.88 | 50 |
| trans-1,2-Dichloroethene | 0.368 | 0.389 | | 5.71 | 50 |
| 1,1-Dichloroethane | 0.609 | 0.649 | 0.1 | 6.57 | 50 |
| 2-Butanone | 0.070 | 0.077 | | 10 | 50 |
| Carbon Tetrachloride | 0.599 | 0.539 | | -10.18 | 50 |
| cis-1,2-Dichloroethene | 0.441 | 0.465 | | 5.44 | 50 |
| Chloroform | 0.784 | 0.803 | | 2.42 | 50 |
| 1,1,1-Trichloroethane | 0.840 | 0.815 | | -2.98 | 50 |
| Benzene | 1.054 | 1.074 | | 1.9 | 50 |
| 1,2-Dichloroethane | 0.338 | 0.338 | | 0 | 50 |
| Trichloroethene | 0.315 | 0.307 | | -2.54 | 50 |
| Toluene | 0.723 | 0.732 | | 1.25 | 50 |
| Tetrachloroethene | 0.342 | 0.319 | | -6.72 | 50 |
| Chlorobenzene | 0.979 | 0.970 | 0.3 | -0.92 | 50 |
| Ethyl Benzene | 1.711 | 1.696 | | -0.88 | 50 |
| m/p-Xylenes | 0.653 | 0.644 | | -1.38 | 50 |
| o-Xylene | 0.624 | 0.616 | | -1.28 | 50 |
| n-propylbenzene | 3.883 | 3.687 | | -5.05 | 50 |
| tert-Butylbenzene | 2.695 | 2.503 | | -7.12 | 50 |
| 1,2,4-Trimethylbenzene | 2.809 | 2.733 | | -2.71 | 50 |
| sec-Butylbenzene | 3.633 | 3.391 | | -6.66 | 50 |
| 1,3-Dichlorobenzene | 1.559 | 1.481 | | -5 | 50 |
| 1,4-Dichlorobenzene | 1.550 | 1.470 | | -5.16 | 50 |
| n-Butylbenzene | 2.702 | 2.492 | | -7.77 | 50 |
| 1,2-Dichlorobenzene | 1.336 | 1.313 | | -1.72 | 50 |
| 1,2-Dichloroethane-d4 | 0.410 | 0.485 | | 18.29 | 50 |
| Dibromofluoromethane | 0.275 | 0.305 | | 10.91 | 50 |
| Toluene-d8 | 0.971 | 1.170 | | 20.49 | 50 |
| 4-Bromofluorobenzene | 0.366 | 0.411 | | 12.3 | 50 |
| 1,4-Dioxane | 1.407 | 1.590 | 0.05 | 13.01 | 50 |

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_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 118688 | 50.000 ug/l | -0.01 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 172132 | 50.000 ug/l | -0.01 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 148030 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 76525 | 50.000 ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 57538 | 59.186 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 118.380% | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 52517 | 55.390 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 110.780% | | |
| 50) Toluene-d8 | 10.109 | 98 | 201423 | 53.305 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 106.600% | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 70702 | 56.112 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 112.220% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 42146 | 45.114 ug/l | 94 |
| 3) Chloromethane | 2.074 | 50 | 18374 | 52.737 ug/l | 94 |
| 4) Vinyl Chloride | 2.208 | 62 | 21249 | 49.224 ug/l | 96 |
| 5) Bromomethane | 2.604 | 94 | 16604 | 50.944 ug/l | 93 |
| 6) Chloroethane | 2.745 | 64 | 13180 | 50.896 ug/l | 97 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 73042 | 44.000 ug/l | 98 |
| 8) Diethyl Ether | 3.464 | 74 | 21450 | 54.301 ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 43414 | 47.637 ug/l | 99 |
| 10) Methyl Iodide | 4.013 | 142 | 51674 | 51.852 ug/l | 100 |
| 11) Tert butyl alcohol | 4.878 | 59 | 16118 | 266.739 ug/l # | 81 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 40626 | 50.083 ug/l | 97 |
| 13) Acrolein | 3.659 | 56 | 3260 | 160.414 ug/l | 98 |
| 14) Allyl chloride | 4.391 | 41 | 50835 | 53.553 ug/l | 93 |
| 15) Acrylonitrile | 5.073 | 53 | 40816 | 267.470 ug/l | 97 |
| 16) Acetone | 3.879 | 43 | 29116 | 236.085 ug/l | 97 |
| 17) Carbon Disulfide | 4.116 | 76 | 104201 | 52.366 ug/l | 98 |
| 18) Methyl Acetate | 4.391 | 43 | 18350 | 54.975 ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 118115 | 52.242 ug/l | 98 |
| 20) Methylene Chloride | 4.628 | 84 | 43712 | 54.496 ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 46151 | 52.798 ug/l | 97 |
| 22) Diisopropyl ether | 6.025 | 45 | 108472 | 56.213 ug/l | 99 |
| 23) Vinyl Acetate | 5.970 | 43 | 314401 | 272.779 ug/l | 96 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 76973 | 53.204 ug/l | 98 |
| 25) 2-Butanone | 6.896 | 43 | 45661 | 274.081 ug/l | 90 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 83233 | 47.004 ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 55233 | 52.764 ug/l | 97 |
| 28) Bromochloromethane | 7.250 | 49 | 23832 | 62.291 ug/l | 98 |
| 29) Tetrahydrofuran | 7.262 | 42 | 28493 | 278.632 ug/l | 99 |
| 30) Chloroform | 7.427 | 83 | 95317 | 51.215 ug/l | 99 |
| 31) Cyclohexane | 7.707 | 56 | 56780 | 45.467 ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 96771 | 48.508 ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 59925 | 47.847 ug/l | 98 |
| 37) Ethyl Acetate | 6.988 | 43 | 21782 | 52.779 ug/l | 98 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 92693 | 44.945 ug/l | 96 |
| 39) Methylcyclohexane | 9.115 | 83 | 73974 | 46.082 ug/l | 95 |
| 40) Benzene | 8.085 | 78 | 184941 | 50.952 ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 12457 | 59.754 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 58148 | 49.961 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 45902 | 52.327 | ug/l | | 100 |
| 44) Trichloroethene | 8.865 | 130 | 52902 | 48.797 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 38629 | 52.575 | ug/l | | 99 |
| 46) Dibromomethane | 9.237 | 93 | 25757 | 50.665 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.426 | 83 | 71632 | 49.700 | ug/l | | 93 |
| 48) Methyl methacrylate | 9.225 | 41 | 20264 | 49.466 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.237 | 88 | 5473 | 1130.206 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 111120 | 262.443 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 126070 | 50.676 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 63222 | 49.943 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 70450 | 50.773 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 33307 | 51.326 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.444 | 69 | 44306 | 51.971 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 53860 | 51.138 | ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 89410 | 300.757 | ug/l | | 99 |
| 59) 2-Hexanone | 10.761 | 43 | 76163 | 272.444 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.914 | 129 | 51420 | 49.038 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 30175 | 49.418 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 47206 | 46.676 | ug/l | | 98 |
| 65) Chlorobenzene | 11.444 | 112 | 143586 | 49.537 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 54805 | 48.804 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 251000 | 49.546 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 190725 | 98.695 | ug/l | | 99 |
| 69) o-Xylene | 11.956 | 106 | 91171 | 49.380 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 156202 | 50.397 | ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 32013 | 49.586 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 249657 | 47.089 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 39222 | 52.059 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 33686 | 49.563 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 28814m | 59.202 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 59248 | 48.546 | ug/l | | 100 |
| 78) n-propylbenzene | 12.597 | 91 | 282155 | 47.482 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 162993 | 48.116 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 212033 | 48.002 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 12073 | 49.030 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 167778 | 47.924 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 191560 | 46.437 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 209170 | 48.661 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 259512 | 46.679 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 231821 | 46.789 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 113309 | 47.503 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 112454 | 47.392 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 190714 | 46.112 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 43349 | 46.011 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 100450 | 49.115 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 6413 | 48.649 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 59790 | 45.993 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 40572 | 42.822 | ug/l | | 100 |
| 95) Naphthalene | 15.151 | 128 | 97419 | 46.789 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 50331 | 46.500 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
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Response via : Initial Calibration

**Instrument :**
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**ClientSampleId :**
VSTDCCC050EC

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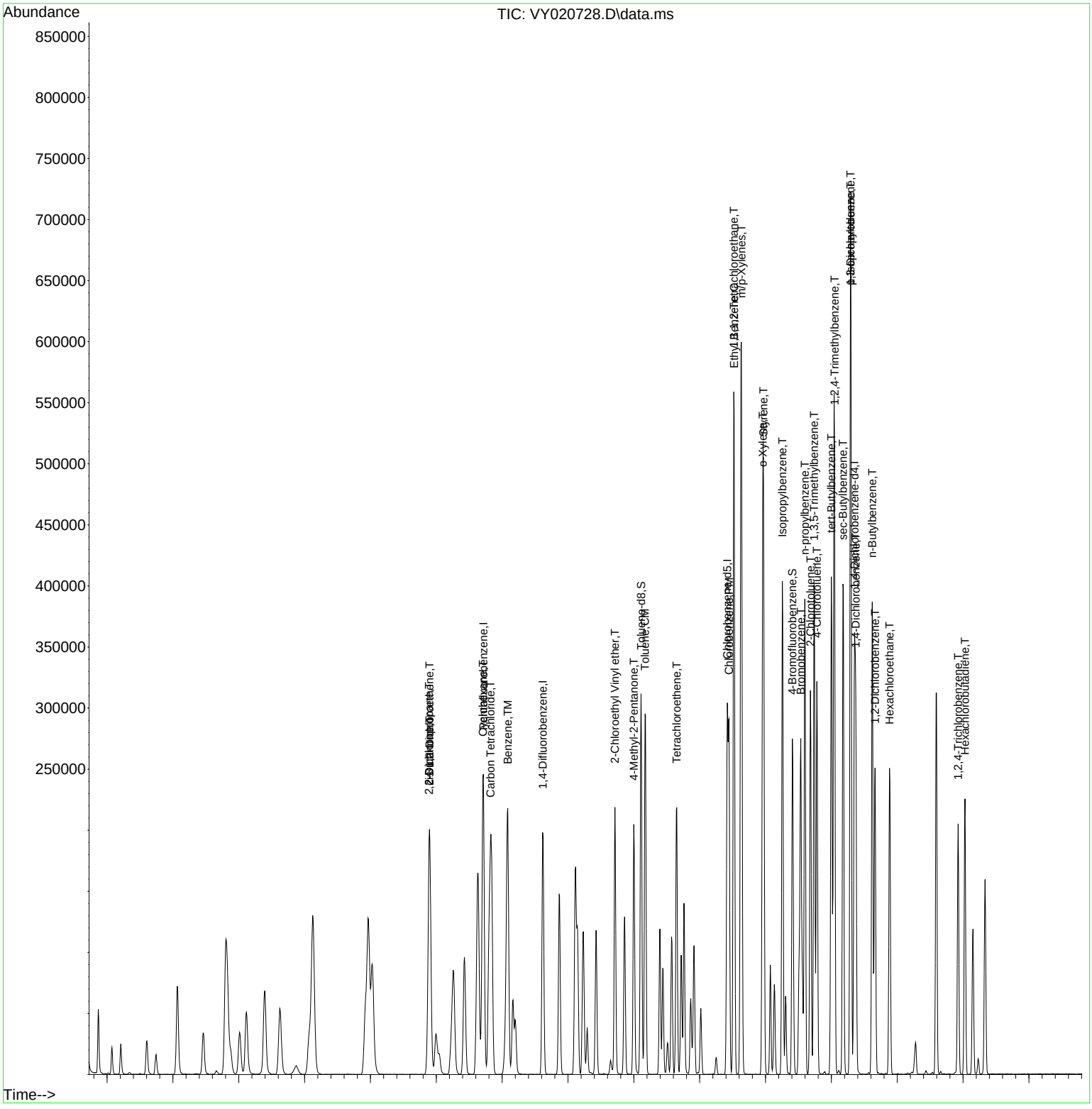
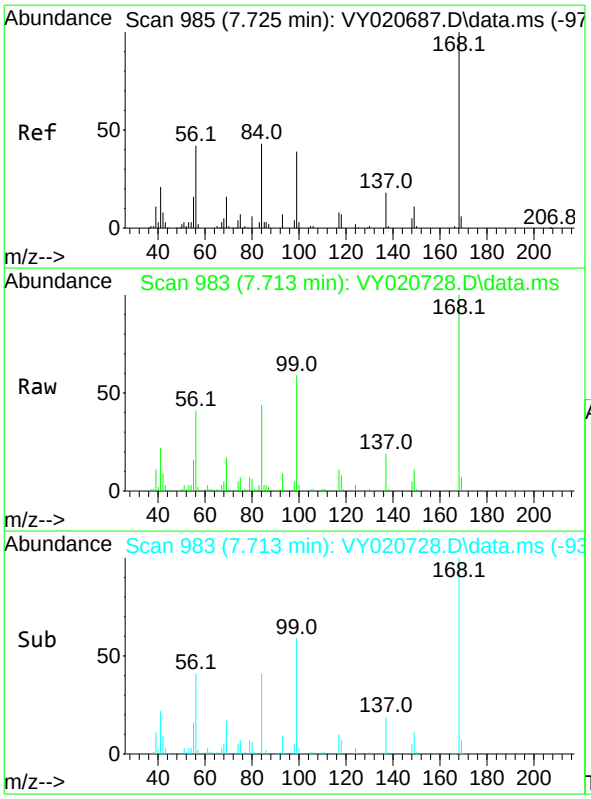
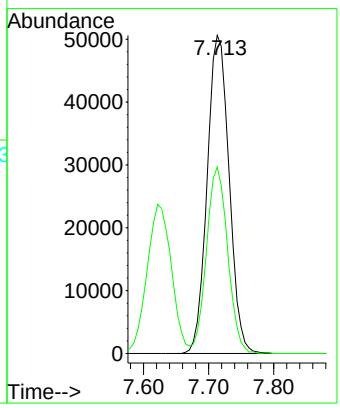





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:168 Resp: 118688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.6 | 43.8 | 65.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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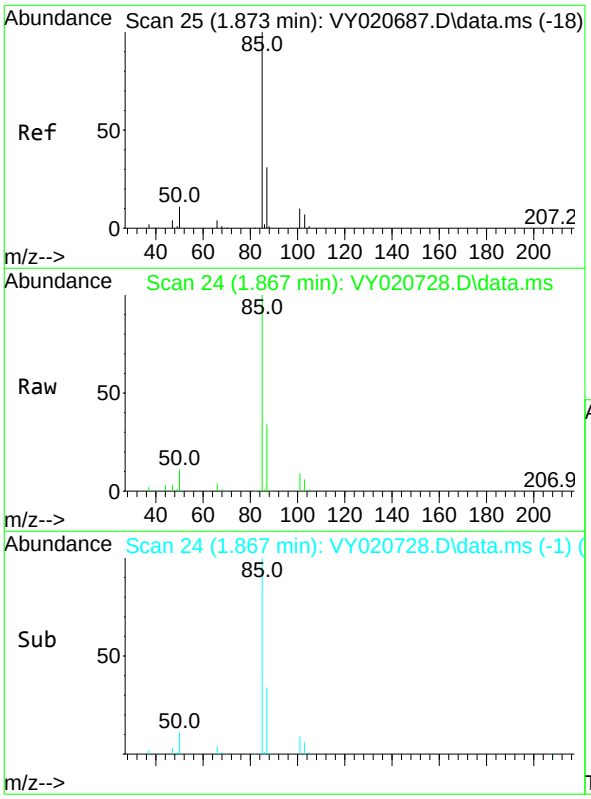
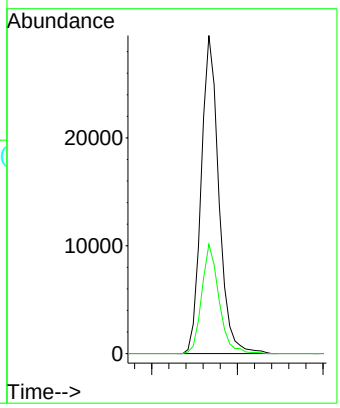
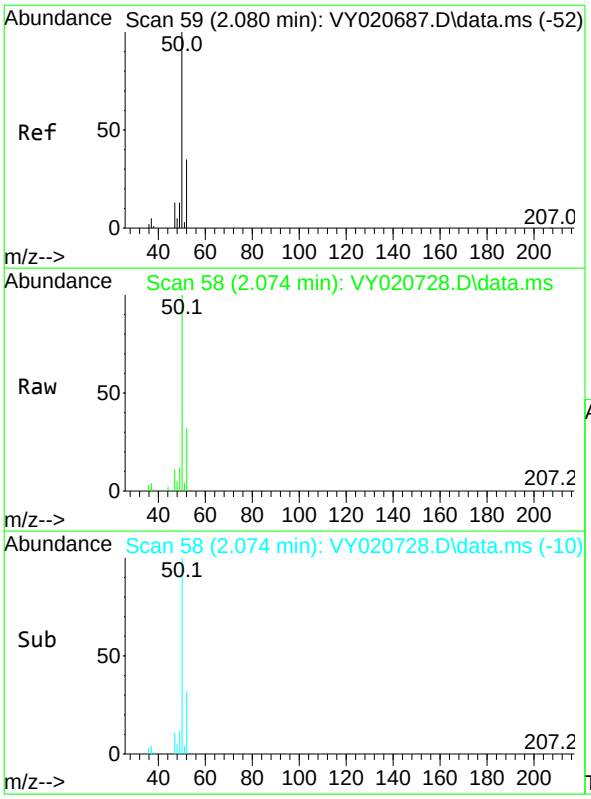



#2
Dichlorodifluoromethane
Concen: 45.114 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 85 Resp: 42146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.4 | 15.4 | 46.4 |

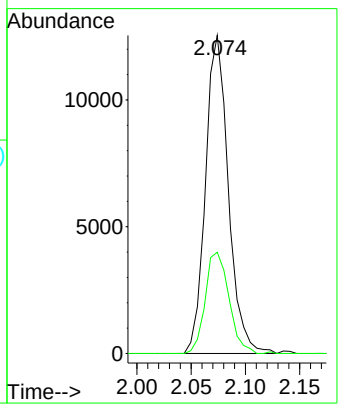





#3
Chloromethane
Concen: 52.737 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 50 Resp: 18374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.9 | 28.2 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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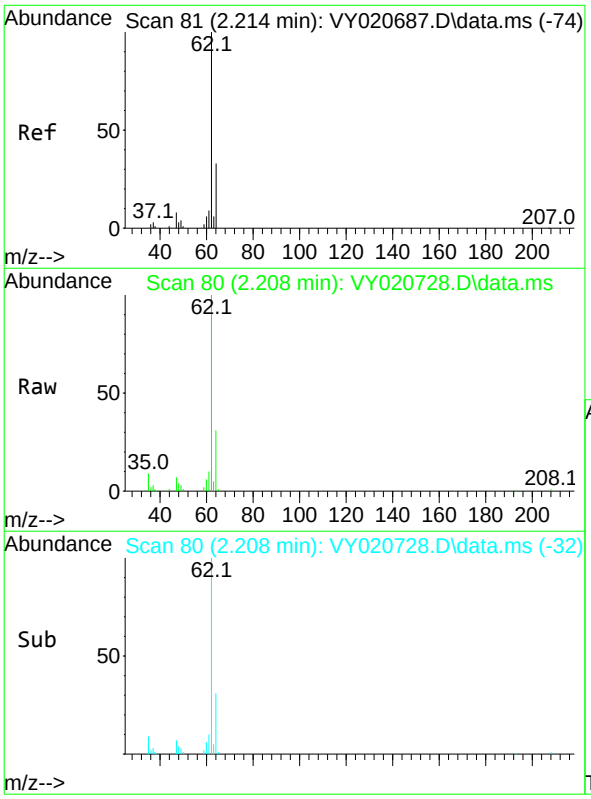
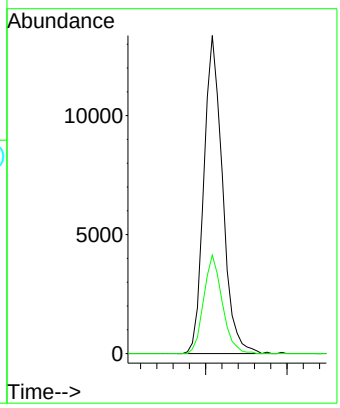
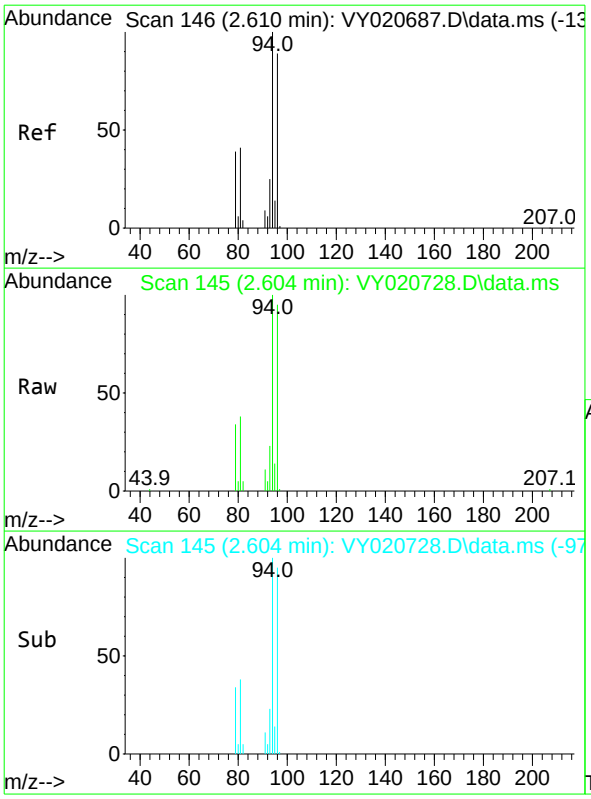



#4
Vinyl Chloride
Concen: 49.224 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 62 Resp: 21249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.0 | 26.6 | 40.0 |

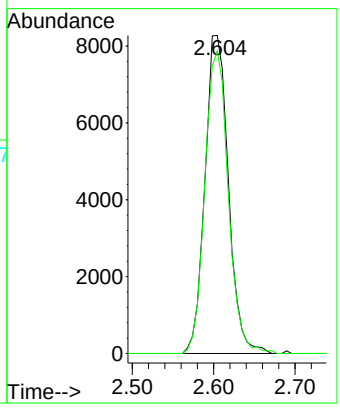





#5
Bromomethane
Concen: 50.944 ug/l
RT: 2.604 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 94 Resp: 16604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.1 | 71.0 | 106.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

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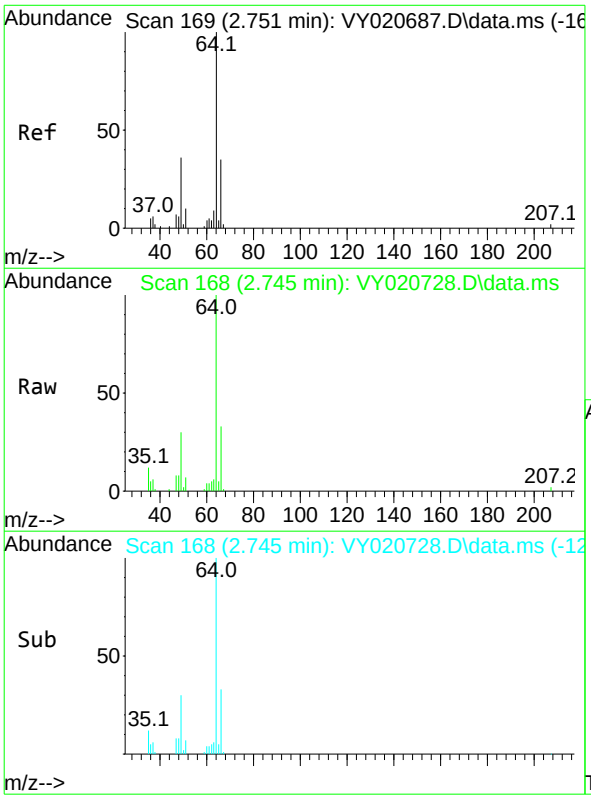
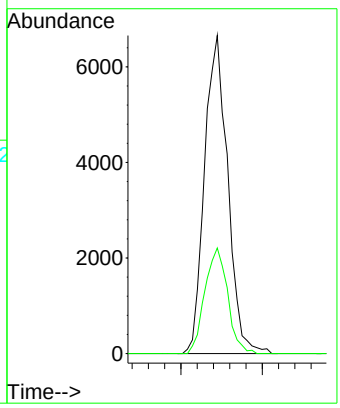
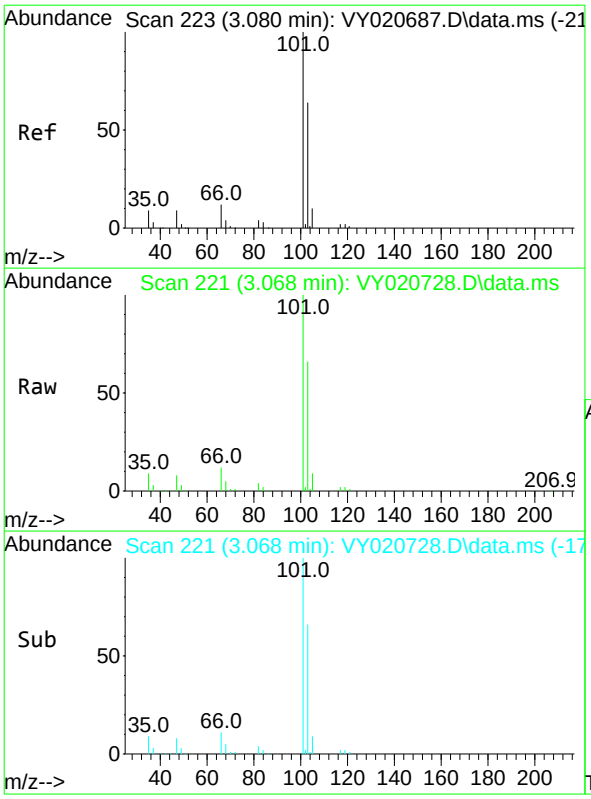



#6
Chloroethane
Concen: 50.896 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 64 Resp: 13180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.2 | 27.8 | 41.8 |

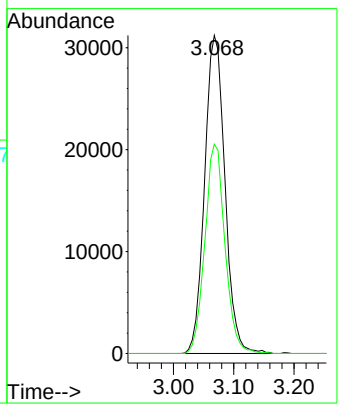





#7
Trichlorofluoromethane
Concen: 44.000 ug/l
RT: 3.068 min Scan# 22
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:101 Resp: 73042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.8 | 51.4 | 77.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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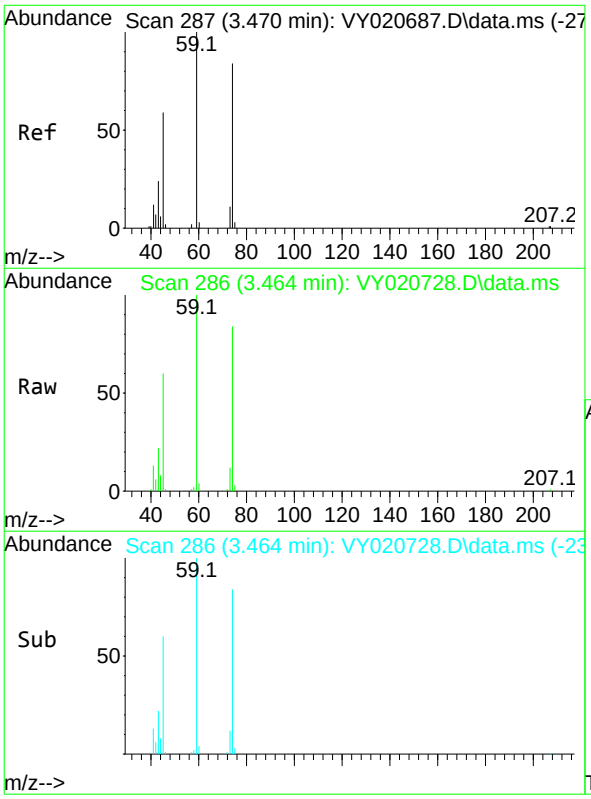
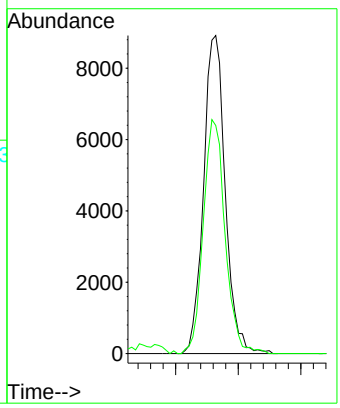
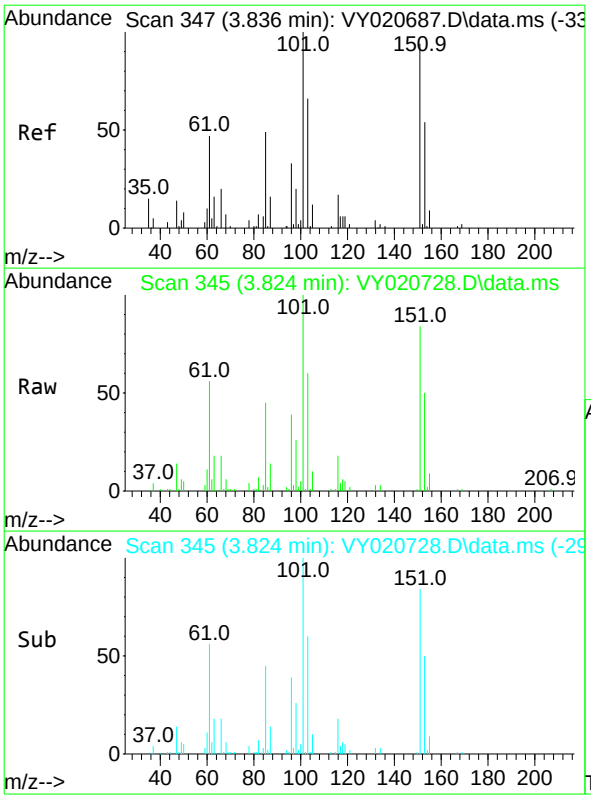



#8
Diethyl Ether
Concen: 54.301 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 74 Resp: 21450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 74.1 | 35.8 | 107.4 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.637 ug/l
RT: 3.824 min Scan# 34
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:101 Resp: 43414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.1 | 38.2 | 57.2 |
| 151 | 85.1 | 68.4 | 102.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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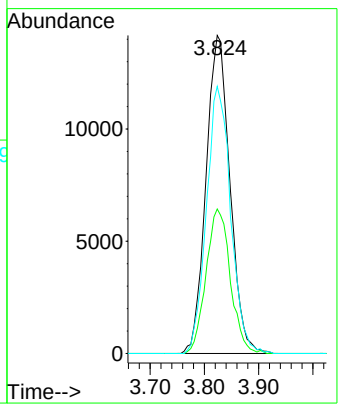
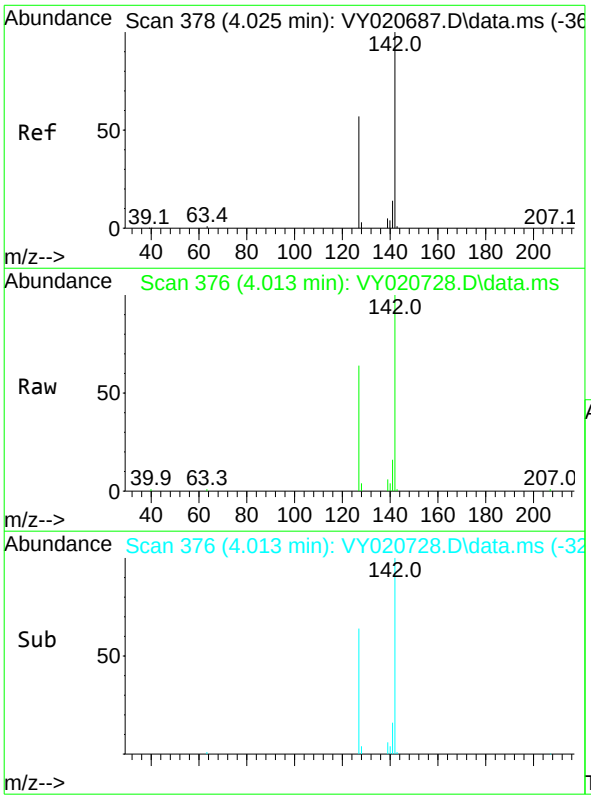
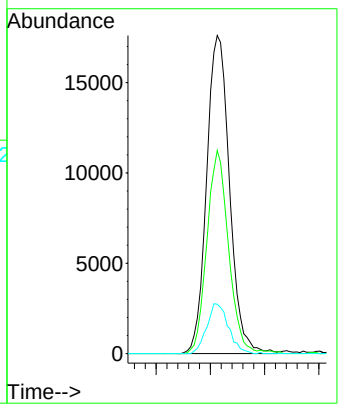


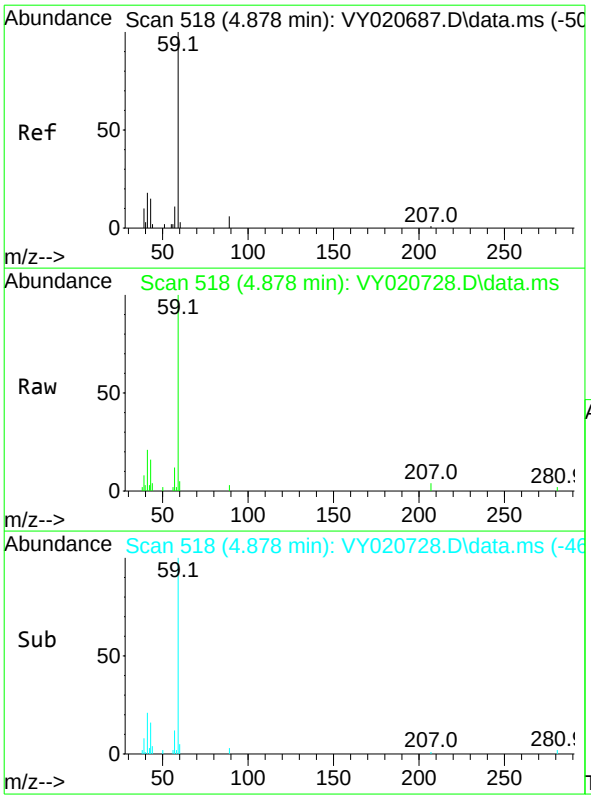




#10
Methyl Iodide
Concen: 51.852 ug/l
RT: 4.013 min Scan# 376
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:142 Resp: 51674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 60.7 | 48.8 | 73.2 |
| 141 | 14.8 | 11.9 | 17.9 |

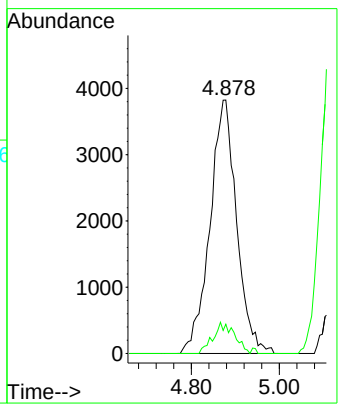





#11
Tert butyl alcohol
Concen: 266.739 ug/l
RT: 4.878 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 59 Resp: 16118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.7 | 2.8 | 4.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

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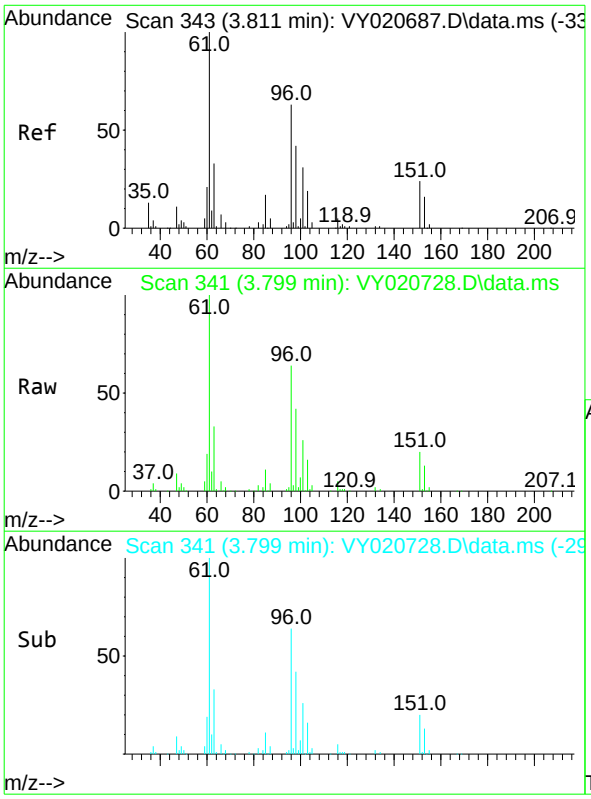
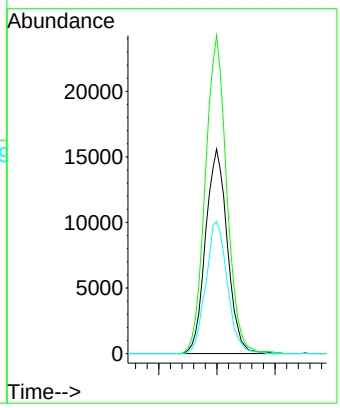
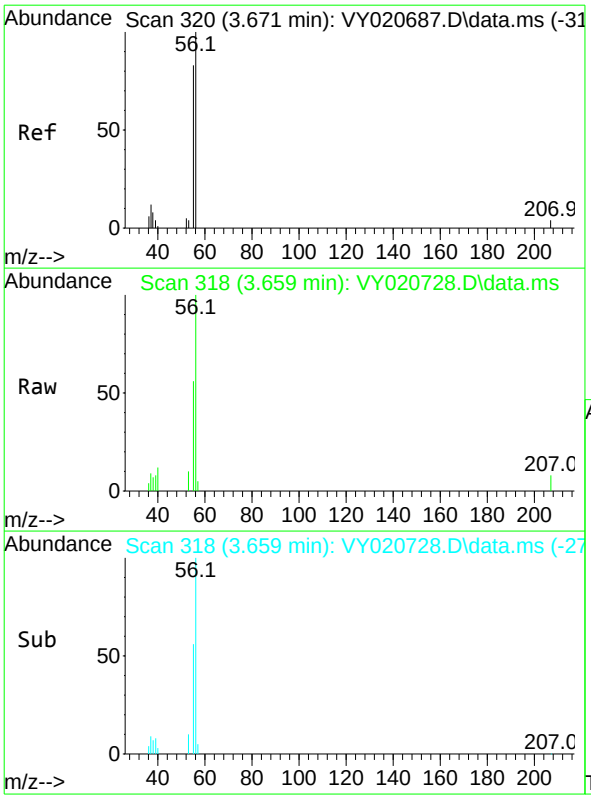



#12
1,1-Dichloroethene
Concen: 50.083 ug/l
RT: 3.799 min Scan# 341
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 96 Resp: 40626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.5 | 127.1 | 190.7 |
| 98 | 64.6 | 53.4 | 80.0 |

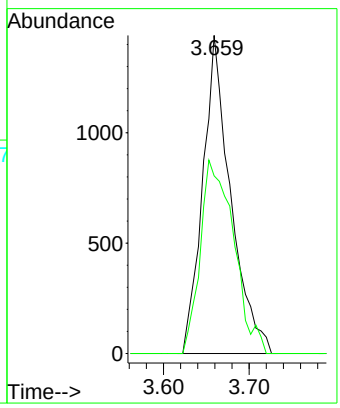





#13
Acrolein
Concen: 160.414 ug/l
RT: 3.659 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 56 Resp: 3260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.7 | 57.0 | 85.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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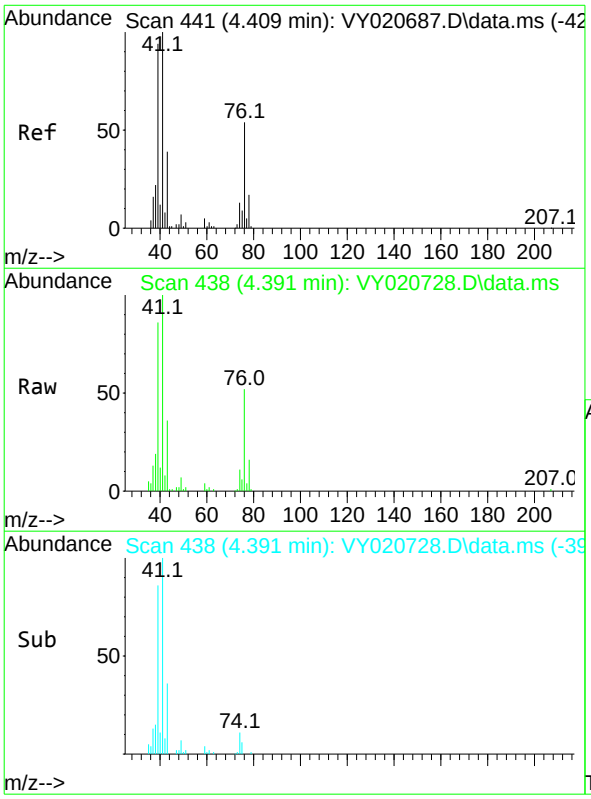
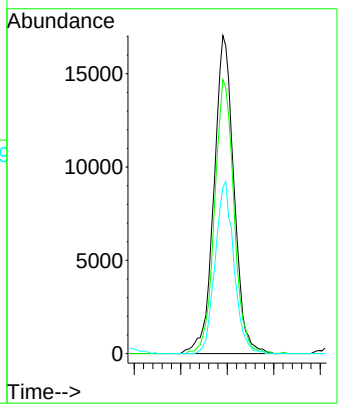
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

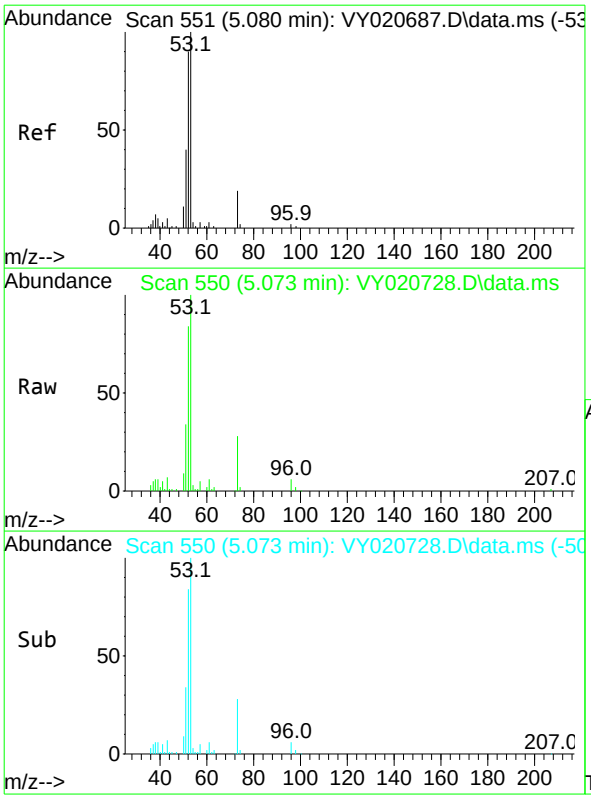



#14
Allyl chloride
Concen: 53.553 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.018 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 41 Resp: 50835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 83.2 | 73.5 | 110.3 |
| 76 | 50.6 | 41.8 | 62.8 |

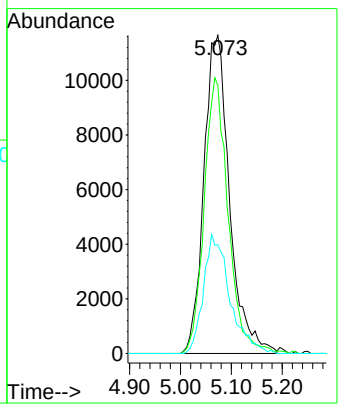





#15
Acrylonitrile
Concen: 267.470 ug/l
RT: 5.073 min Scan# 55
Delta R.T. -0.007 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 53 Resp: 40816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.0 | 67.1 | 100.7 |
| 51 | 38.4 | 31.4 | 47.0 |




**Instrument :**
MSVOA_Y
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VSTDCCC050EC

**Manual Integrations**
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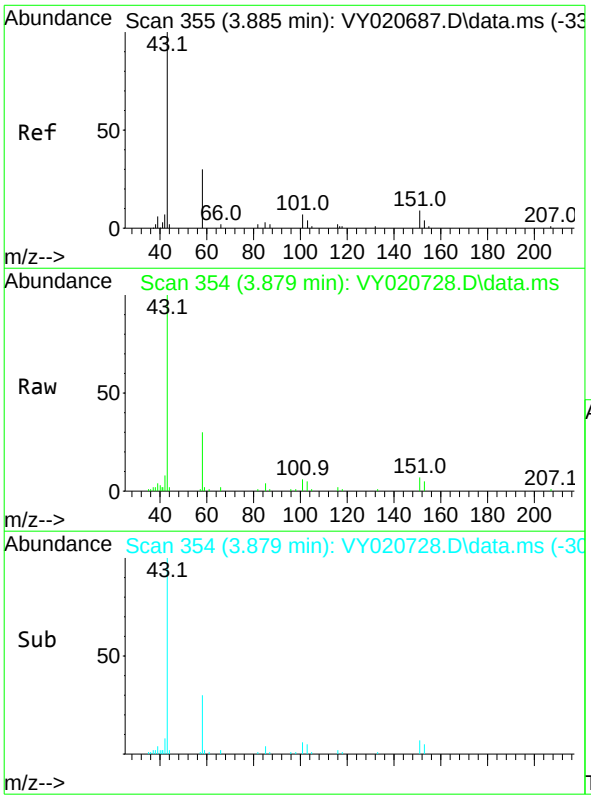
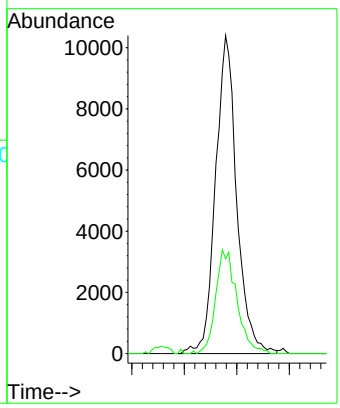
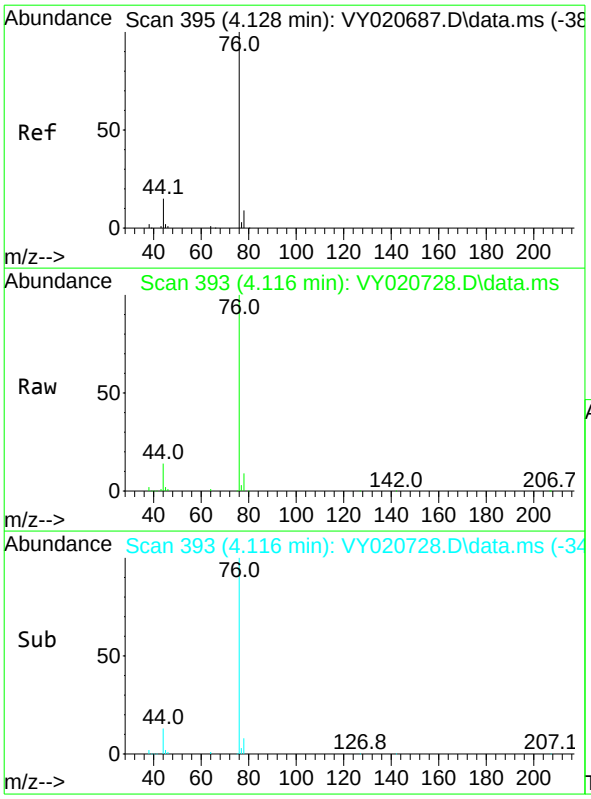



#16
Acetone
Concen: 236.085 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 29116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.8 | 25.0 | 37.6 |

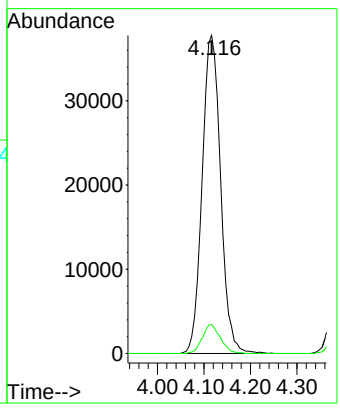





#17
Carbon Disulfide
Concen: 52.366 ug/l
RT: 4.116 min Scan# 39
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 76 Resp: 104201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 6.9 | 10.3 |




**Instrument :**
MSVOA_Y
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**Manual Integrations**
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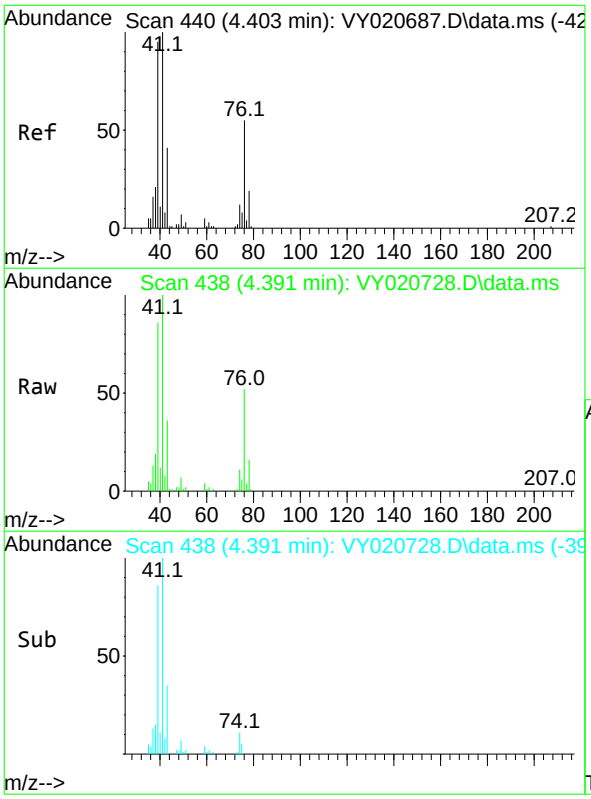
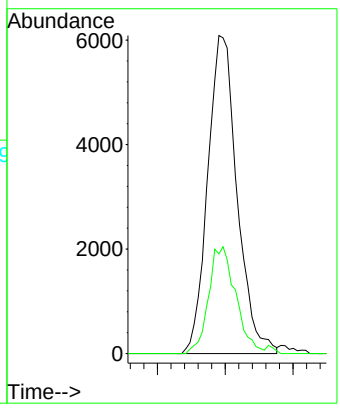
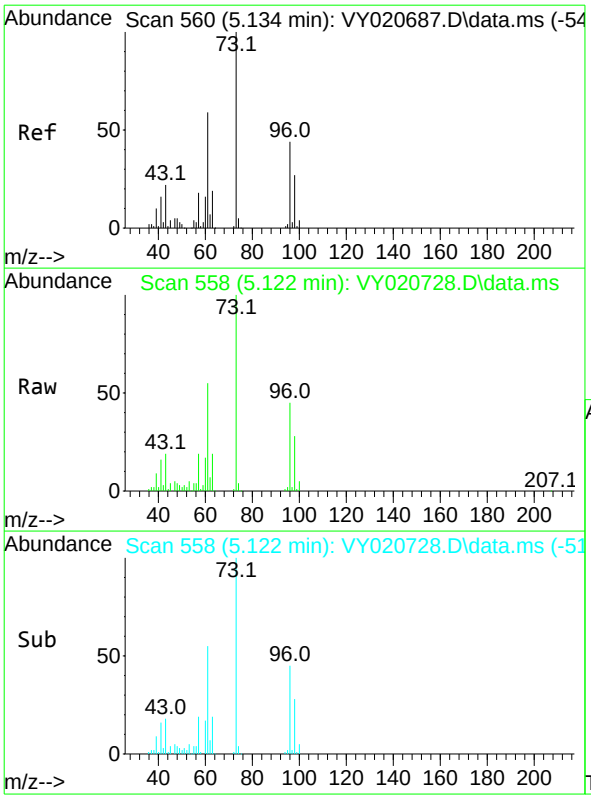



#18
Methyl Acetate
Concen: 54.975 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 18350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 31.0 | 25.3 | 37.9 |

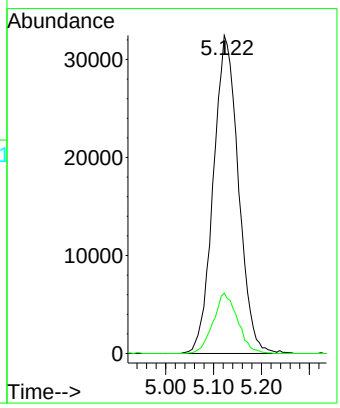





#19
Methyl tert-butyl Ether
Concen: 52.242 ug/l
RT: 5.122 min Scan# 55
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 73 Resp: 118115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.0 | 14.4 | 21.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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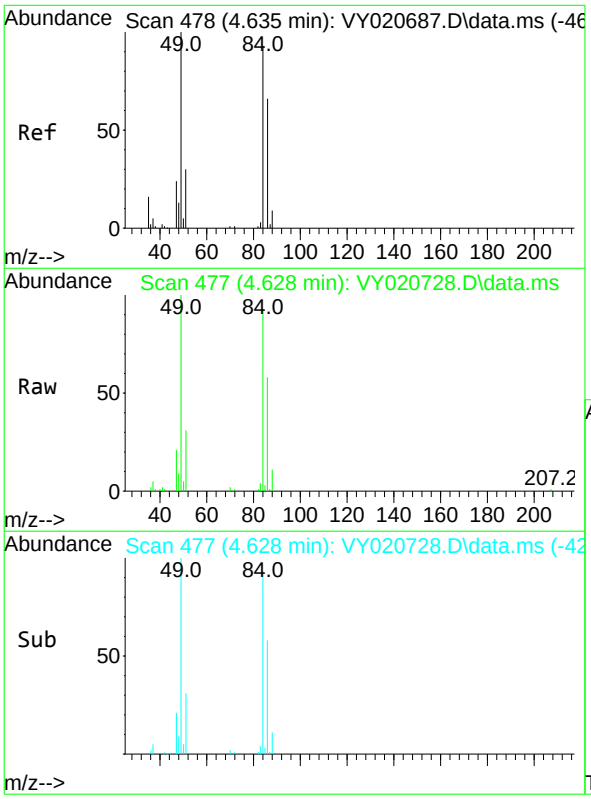
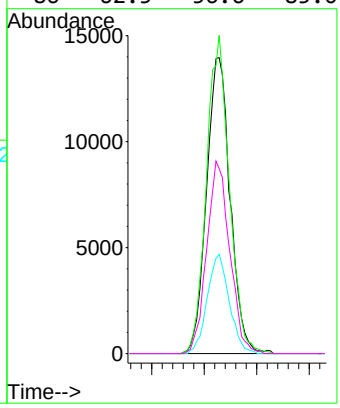
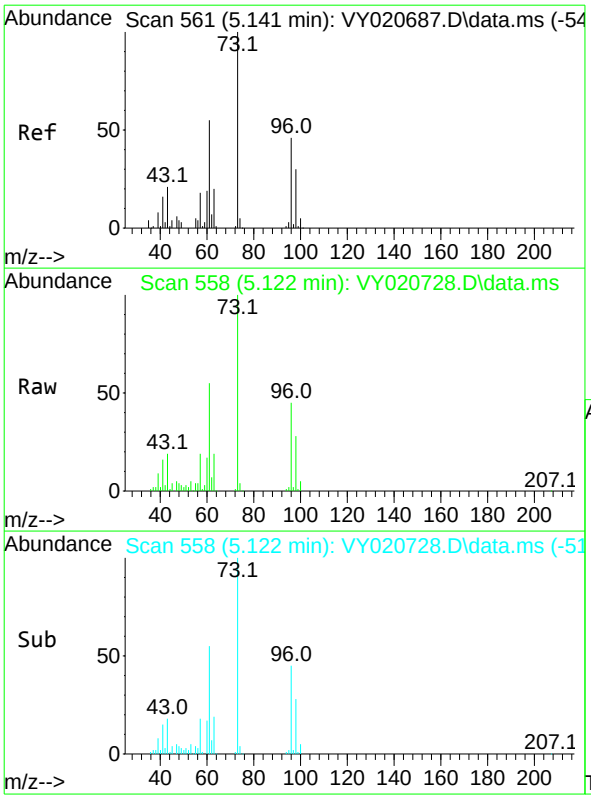



#20
Methylene Chloride
Concen: 54.496 ug/l
RT: 4.628 min Scan# 477
Delta R.T. -0.007 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 84 Resp: 43712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 107.5 | 86.4 | 129.6 |
| 51 | 33.5 | 25.5 | 38.3 |
| 86 | 62.5 | 56.6 | 85.0 |

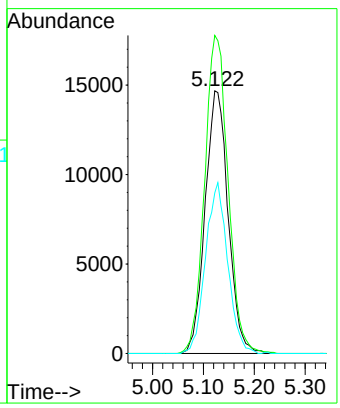





#21
trans-1,2-Dichloroethene
Concen: 52.798 ug/l
RT: 5.122 min Scan# 55
Delta R.T. -0.019 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 96 Resp: 46151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 121.1 | 96.1 | 144.1 |
| 98 | 61.1 | 52.7 | 79.1 |




**Instrument :**
MSVOA_Y
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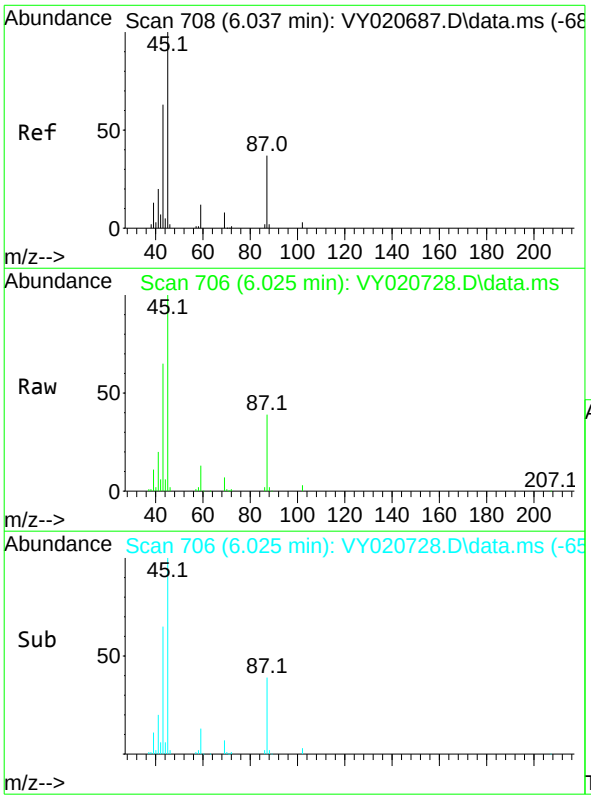
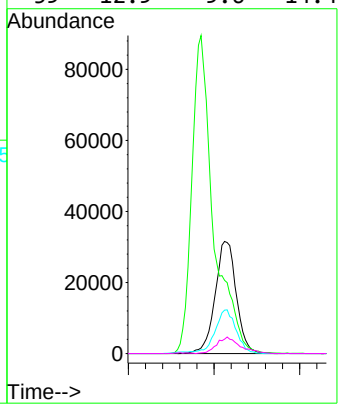
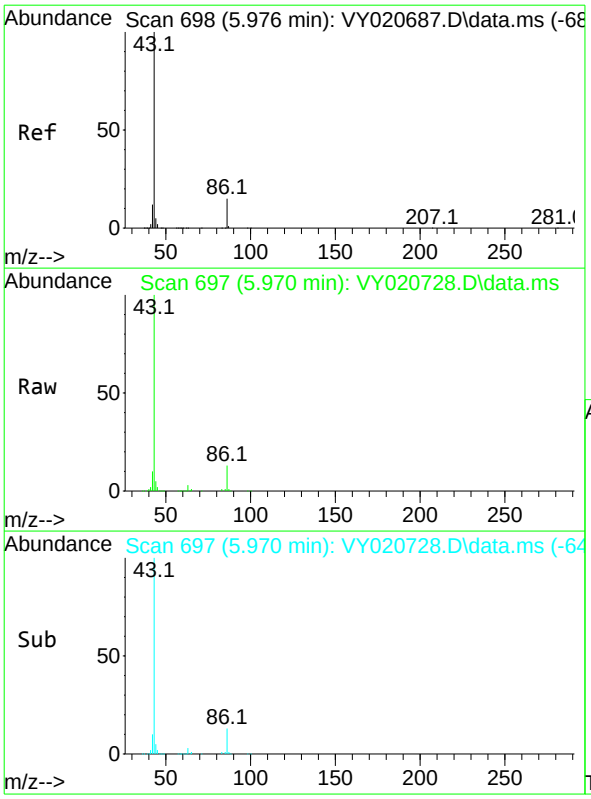



#22
Diisopropyl ether
Concen: 56.213 ug/l
RT: 6.025 min Scan# 706
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 45 Resp: 108472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 64.9 | 51.3 | 76.9 |
| 87 | 38.7 | 30.6 | 46.0 |
| 59 | 12.9 | 9.6 | 14.4 |

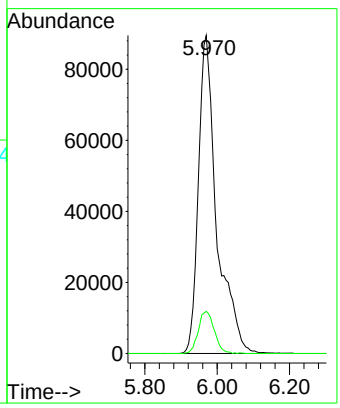





#23
Vinyl Acetate
Concen: 272.779 ug/l
RT: 5.970 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 314401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.2 | 12.0 | 18.0 |




**Instrument :**
MSVOA_Y
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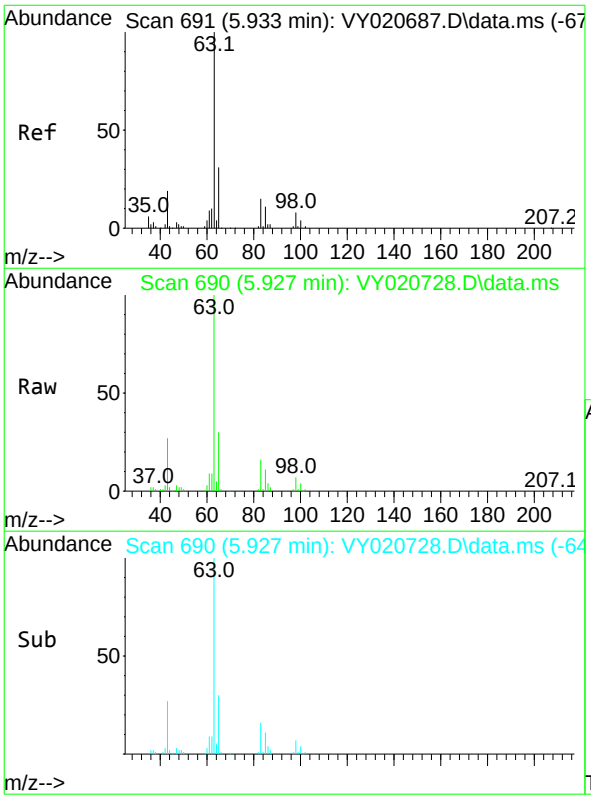
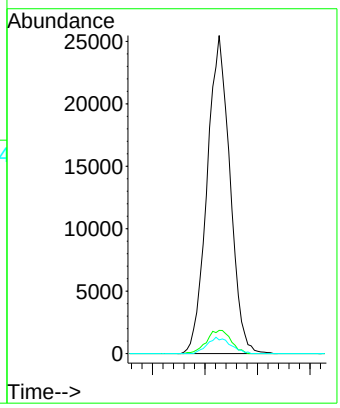
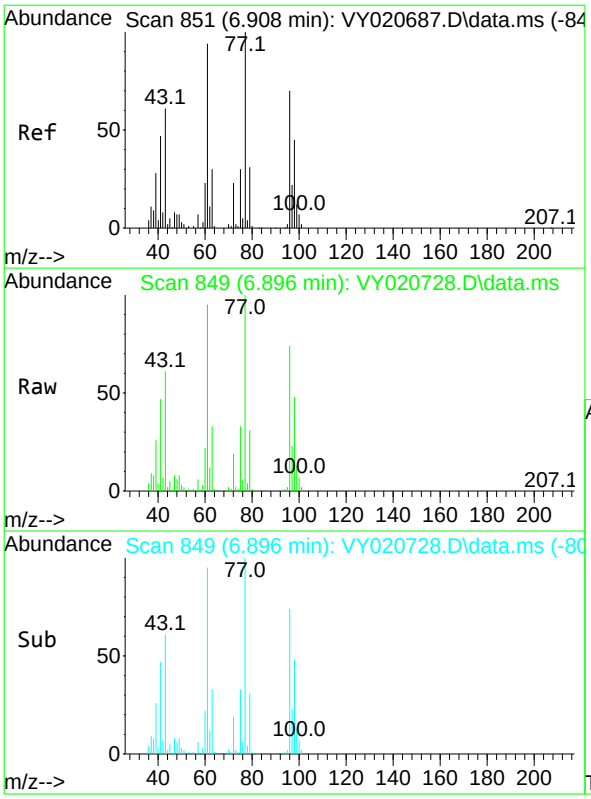



#24
1,1-Dichloroethane
Concen: 53.204 ug/l
RT: 5.927 min Scan# 690
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 63 Resp: 76973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.3 | 4.0 | 12.0 |
| 100 | 4.3 | 2.1 | 6.2 |

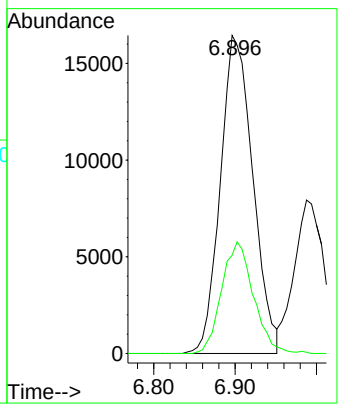





#25
2-Butanone
Concen: 274.081 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 45661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.9 | 29.5 | 44.3 |




**Instrument :**
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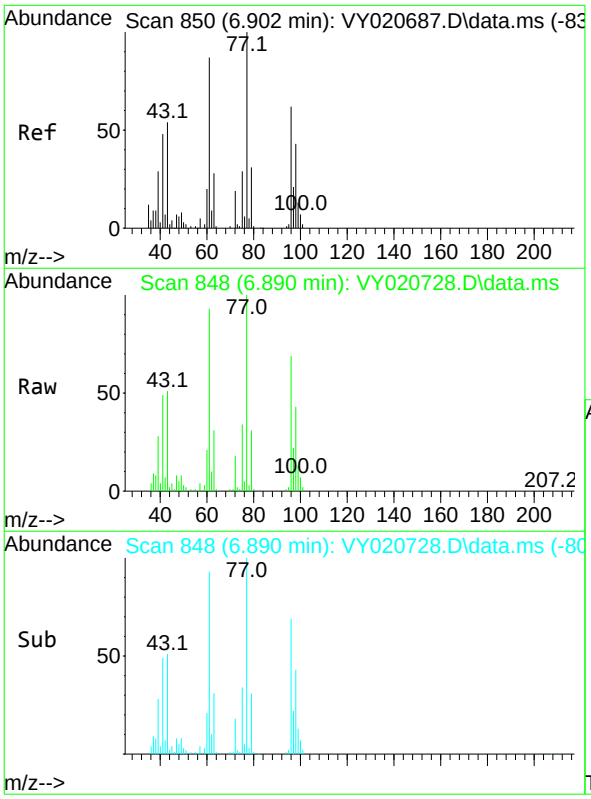
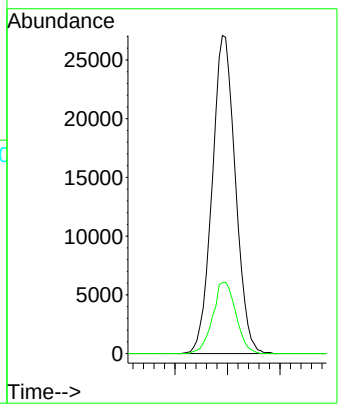
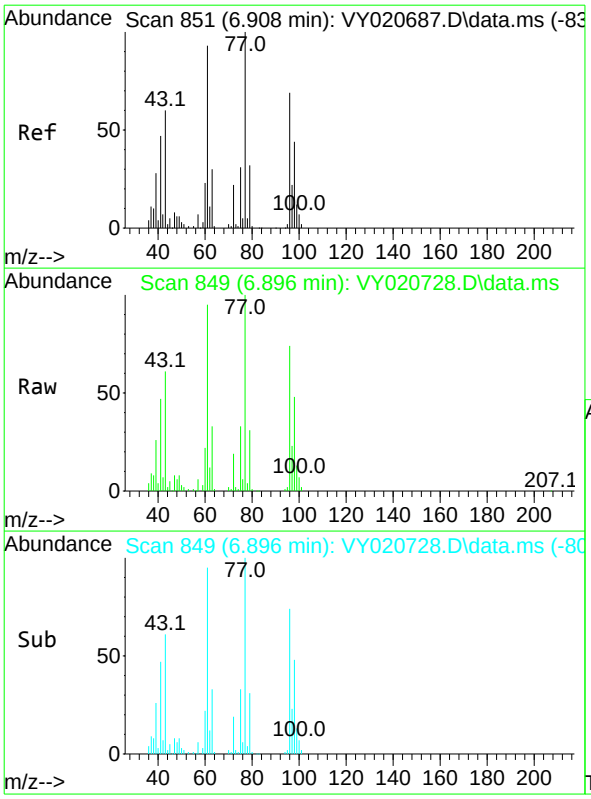



#26
2,2-Dichloropropane
Concen: 47.004 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 77 Resp: 83233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.4 | 10.8 | 32.4 |

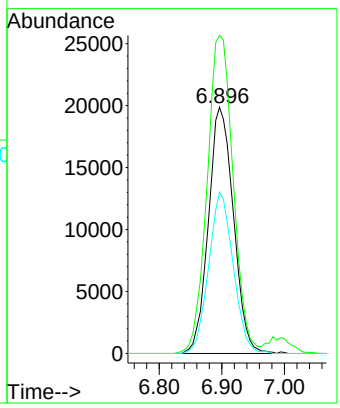





#27
cis-1,2-Dichloroethene
Concen: 52.764 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 96 Resp: 55233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.1 | 0.0 | 277.2 |
| 98 | 64.2 | 0.0 | 131.0 |

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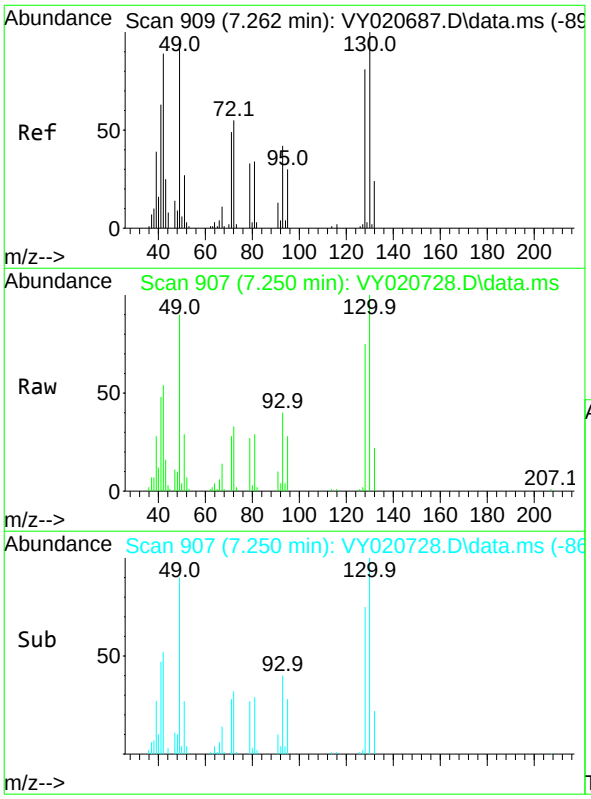
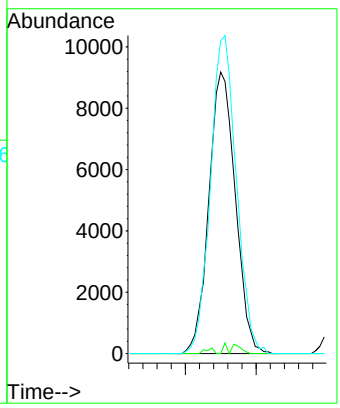
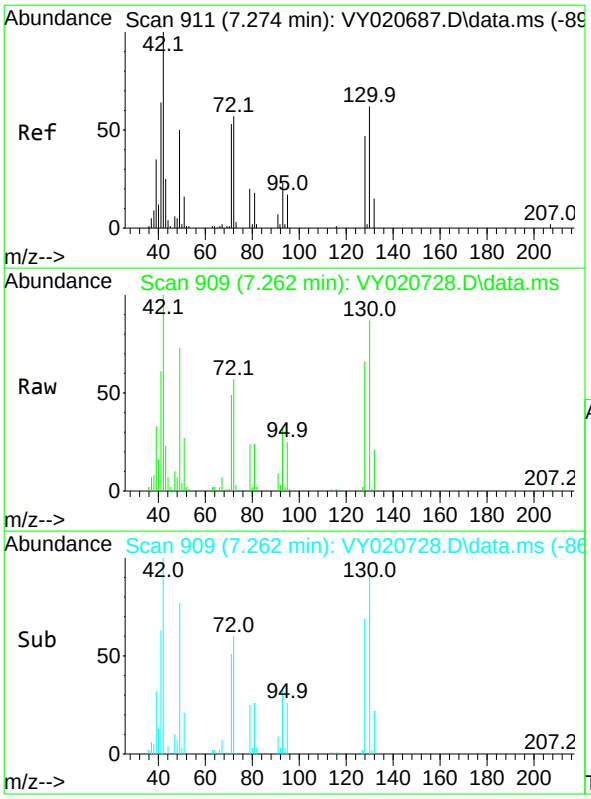



#28
Bromochloromethane
Concen: 62.291 ug/l
RT: 7.250 min Scan# 907
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 49 Resp: 23832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.5 | 0.0 | 5.4 |
| 130 | 110.7 | 87.2 | 130.8 |

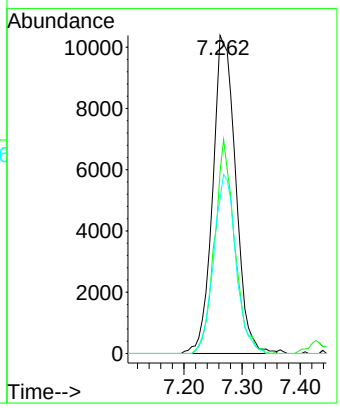





#29
Tetrahydrofuran
Concen: 278.632 ug/l
RT: 7.262 min Scan# 90
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 42 Resp: 28493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 59.0 | 47.4 | 71.0 |
| 71 | 54.7 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
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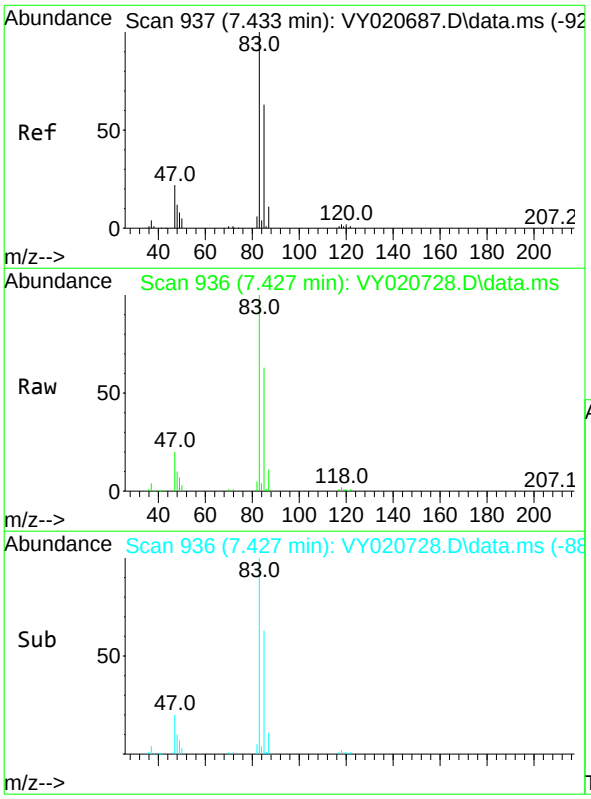
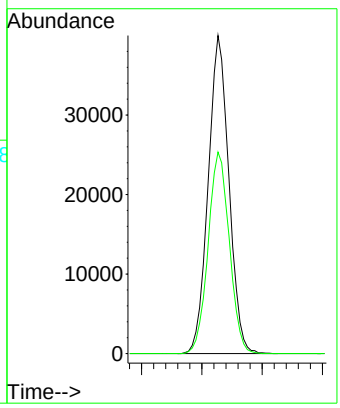
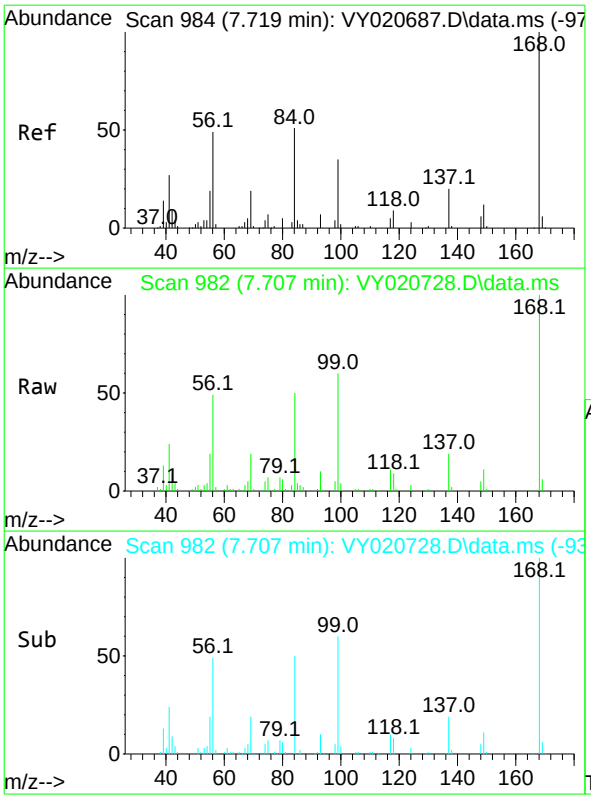



#30
Chloroform
Concen: 51.215 ug/l
RT: 7.427 min Scan# 936
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 83 Resp: 95317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 50.2 | 75.2 |

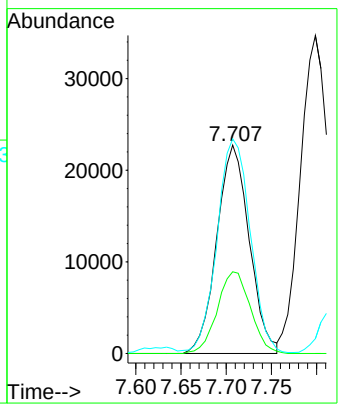





#31
Cyclohexane
Concen: 45.467 ug/l
RT: 7.707 min Scan# 98
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 56 Resp: 56780

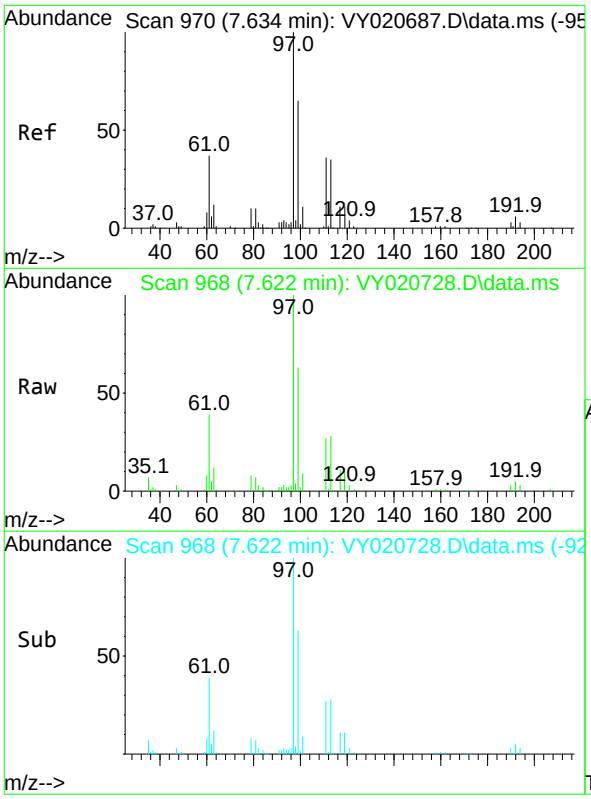
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 39.2 | 31.3 | 46.9 |
| 84 | 101.8 | 83.9 | 125.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

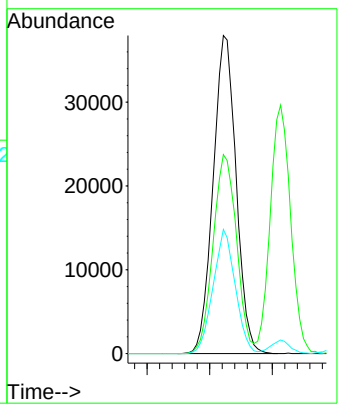
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

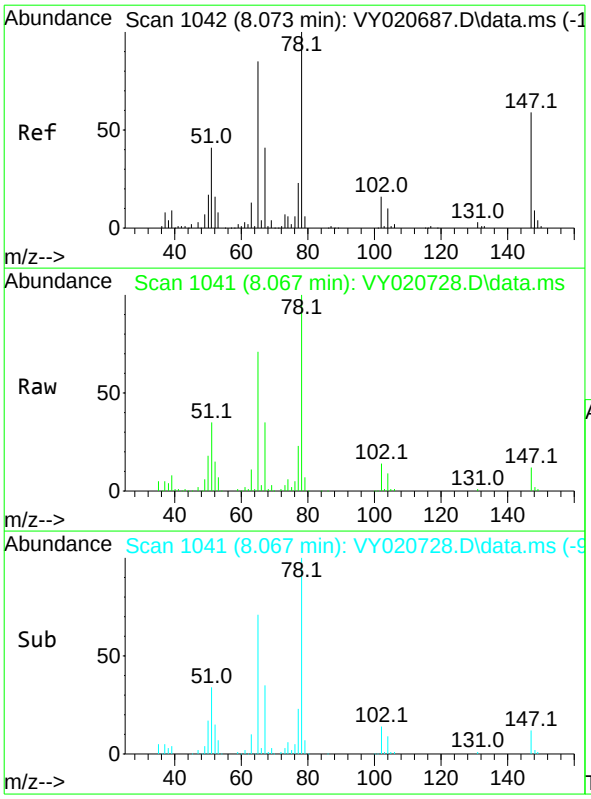



#32
1,1,1-Trichloroethane
Concen: 48.508 ug/l
RT: 7.622 min Scan# 968
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 97 Resp: 96771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.0 | 76.6 |
| 61 | 37.6 | 30.0 | 45.0 |

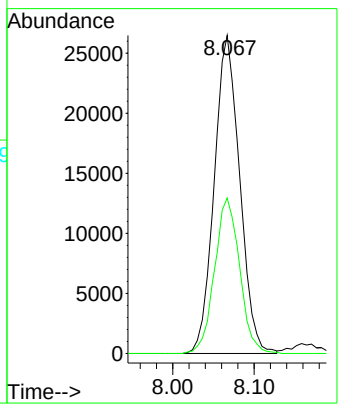





#33
1,2-Dichloroethane-d4
Concen: 59.186 ug/l
RT: 8.067 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 65 Resp: 57538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.0 | 0.0 | 98.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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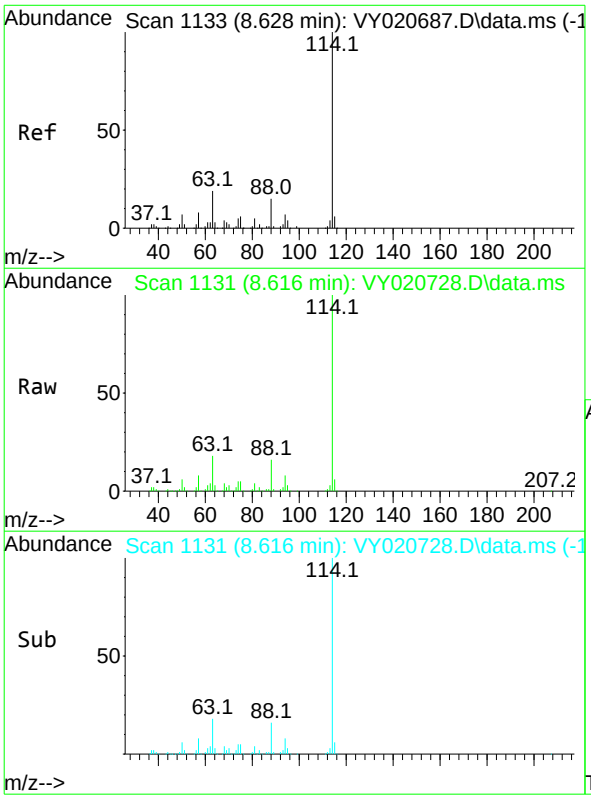
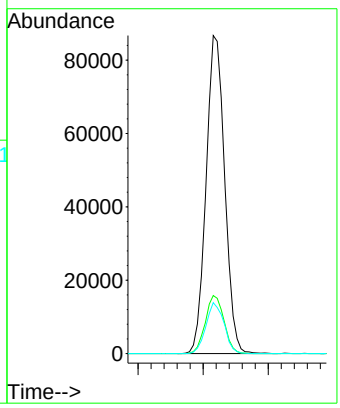
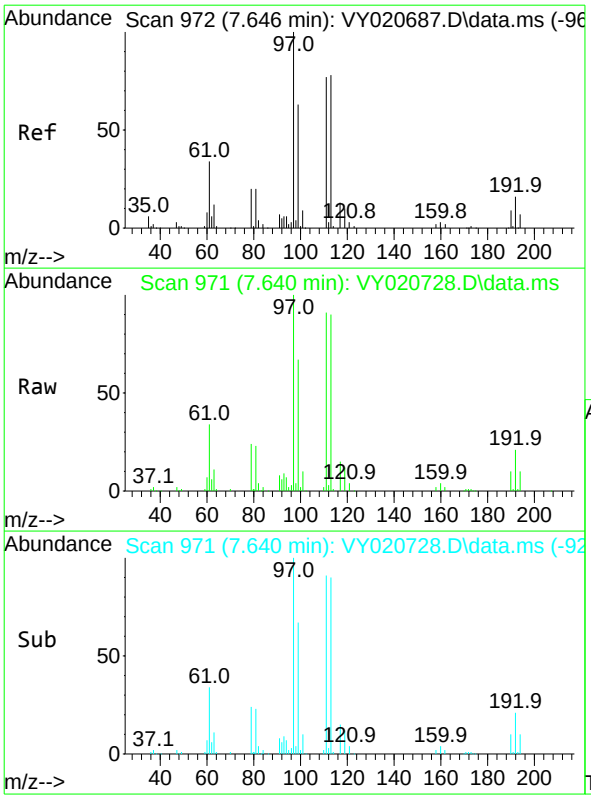



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:114 Resp: 172132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.3 | 0.0 | 38.4 |
| 88 | 16.0 | 0.0 | 30.4 |

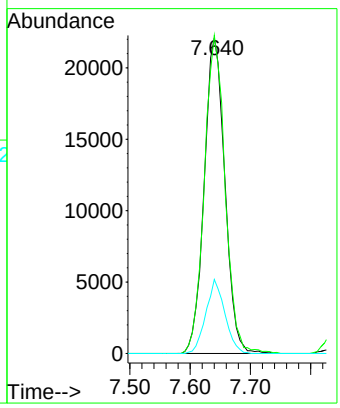





#35
Dibromofluoromethane
Concen: 55.390 ug/l
RT: 7.640 min Scan# 97
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:113 Resp: 52517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.6 | 79.8 | 119.8 |
| 192 | 21.6 | 17.0 | 25.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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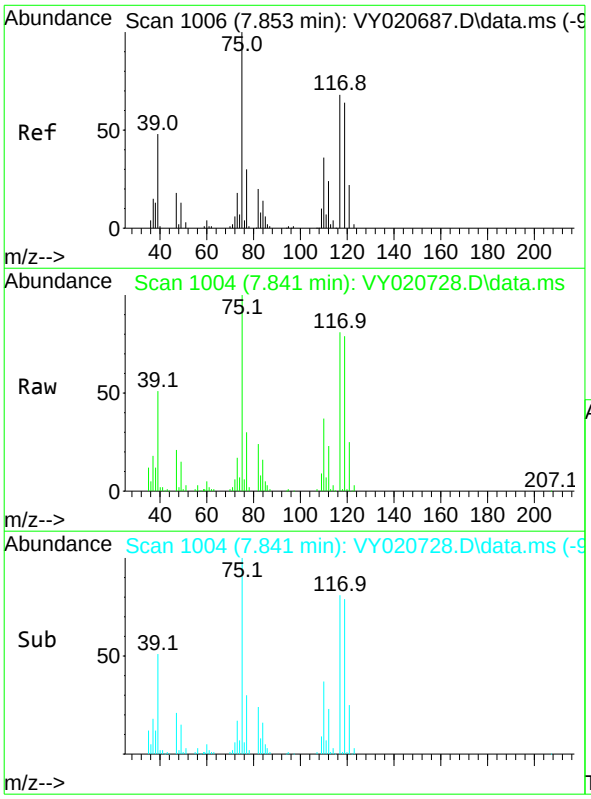
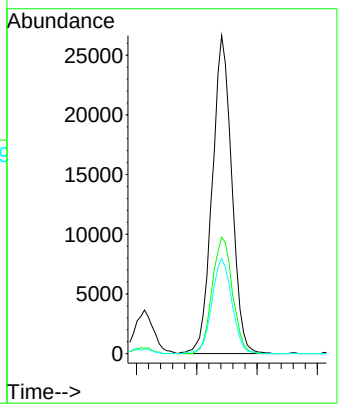
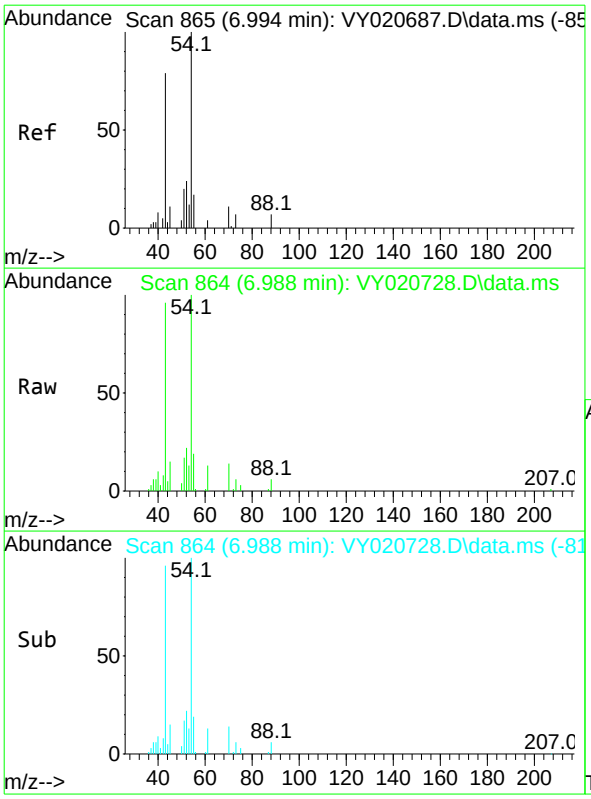



#36
1,1-Dichloropropene
Concen: 47.847 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 75 Resp: 59925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.0 | 19.6 | 58.7 |
| 77 | 30.7 | 25.1 | 37.7 |






#37
Ethyl Acetate
Concen: 52.779 ug/l
RT: 6.988 min Scan# 86
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 21782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.4 | 11.7 | 17.5 |
| 70 | 13.1 | 11.0 | 16.4 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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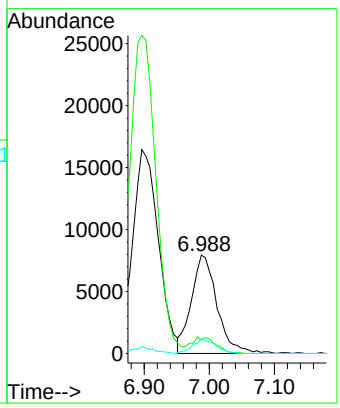
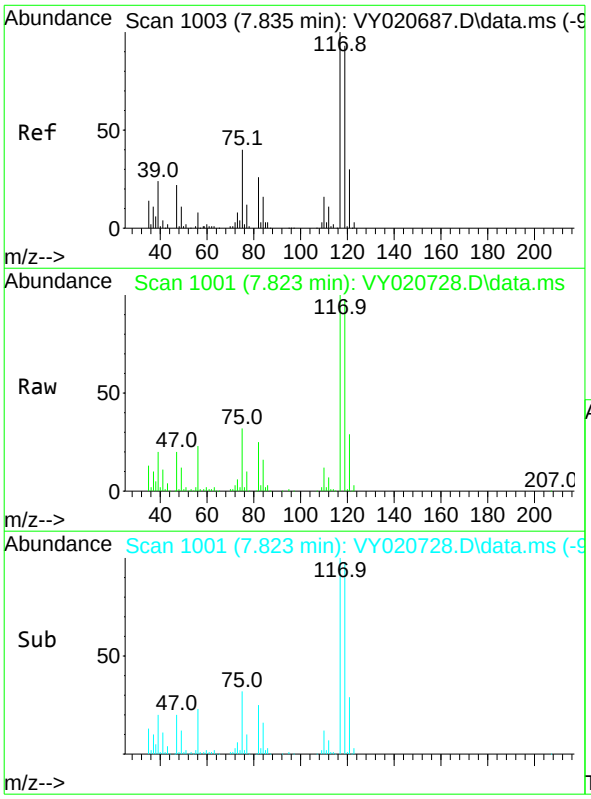
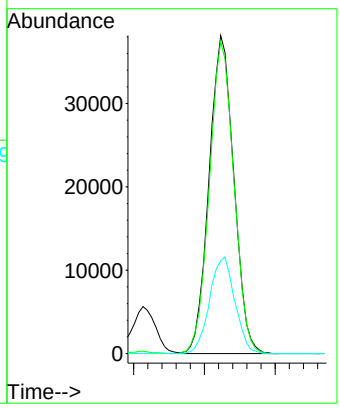


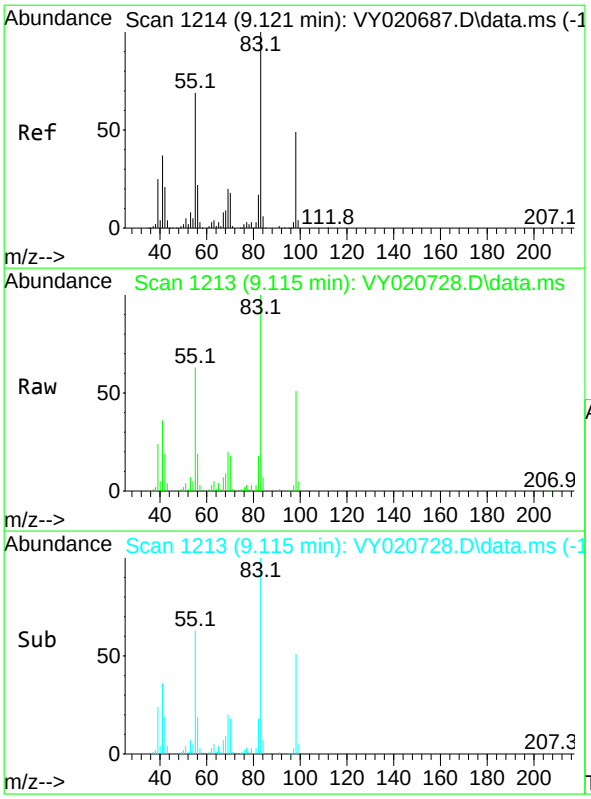




#38
Carbon Tetrachloride
Concen: 44.945 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:117 Resp: 92693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.1 | 74.4 | 111.6 |
| 121 | 29.1 | 24.2 | 36.2 |

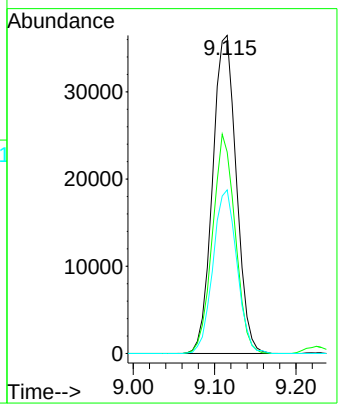





#39
Methylcyclohexane
Concen: 46.082 ug/l
RT: 9.115 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 83 Resp: 73974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 63.3 | 55.0 | 82.4 |
| 98 | 51.4 | 39.0 | 58.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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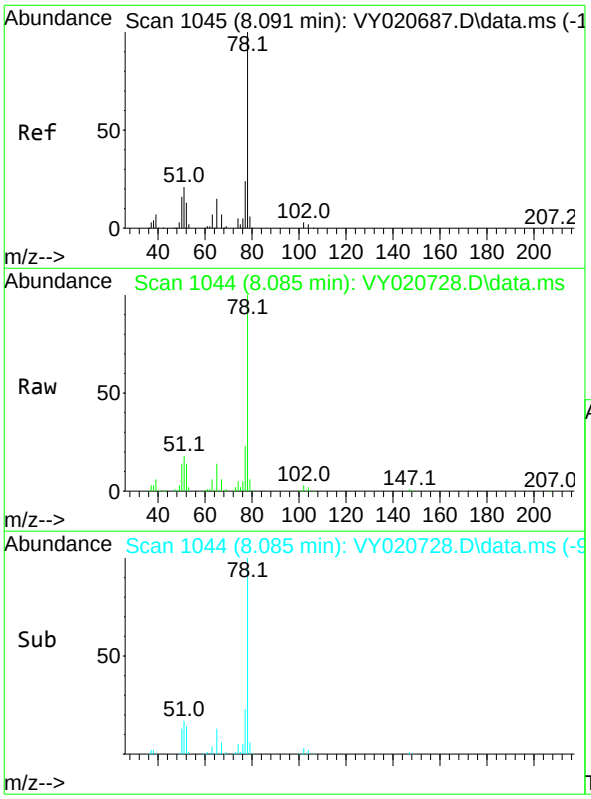
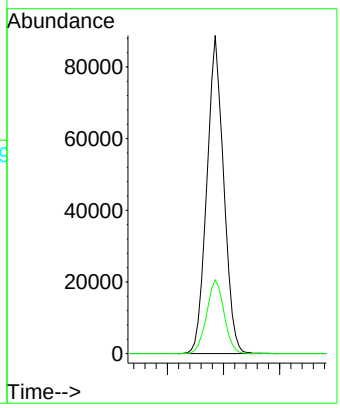
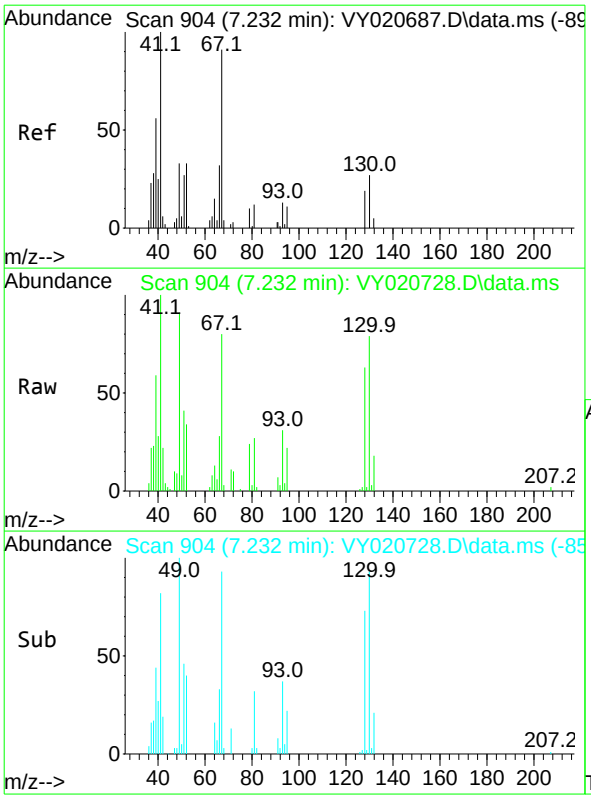



#40
Benzene
Concen: 50.952 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 78 Resp: 184941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 19.2 | 28.8 |

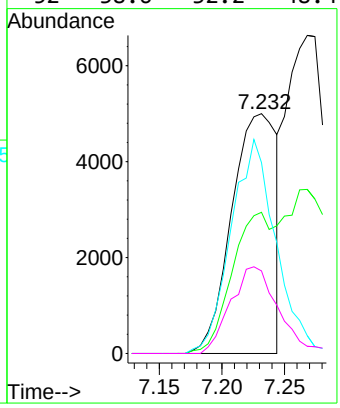





#41
Methacrylonitrile
Concen: 59.754 ug/l
RT: 7.232 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 41 Resp: 12457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 49.4 | 46.6 | 70.0 |
| 67 | 90.0 | 74.7 | 112.1 |
| 52 | 38.6 | 32.2 | 48.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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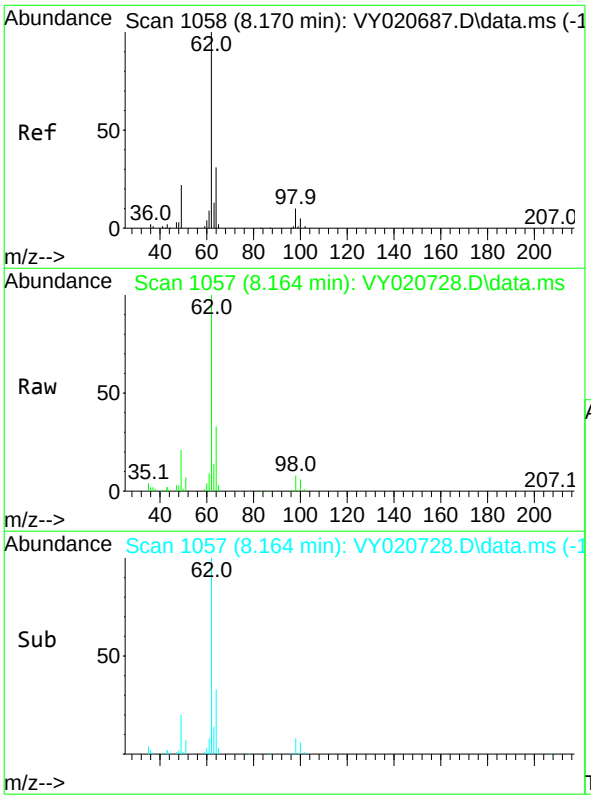
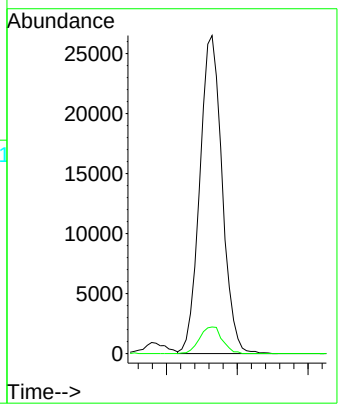
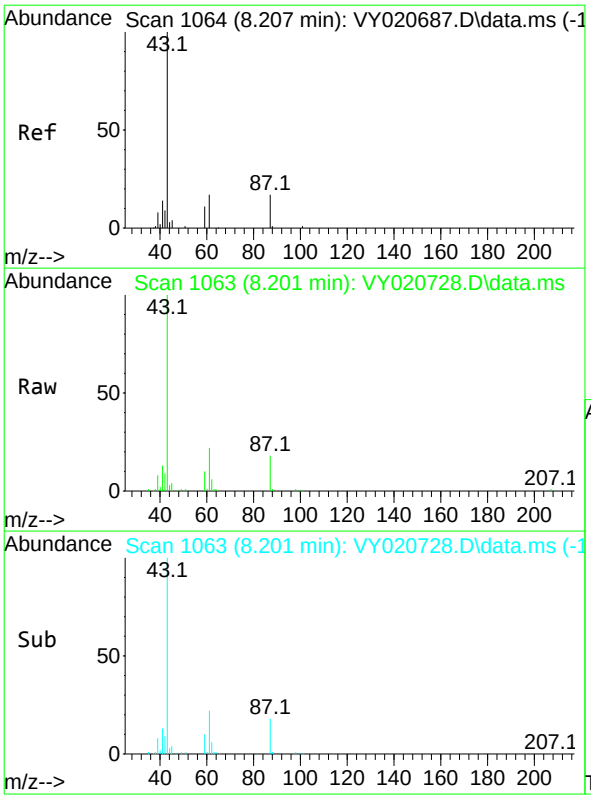



#42
1,2-Dichloroethane
Concen: 49.961 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 62 Resp: 58148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.5 | 0.0 | 16.6 |

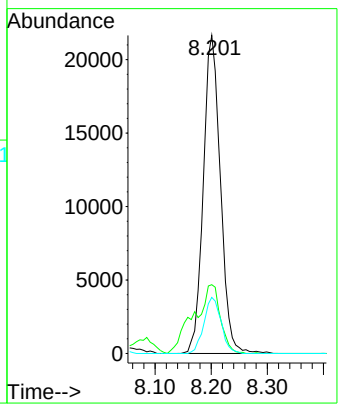





#43
Isopropyl Acetate
Concen: 52.327 ug/l
RT: 8.201 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 45902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 33.6 | 27.0 | 40.4 |
| 87 | 17.8 | 14.2 | 21.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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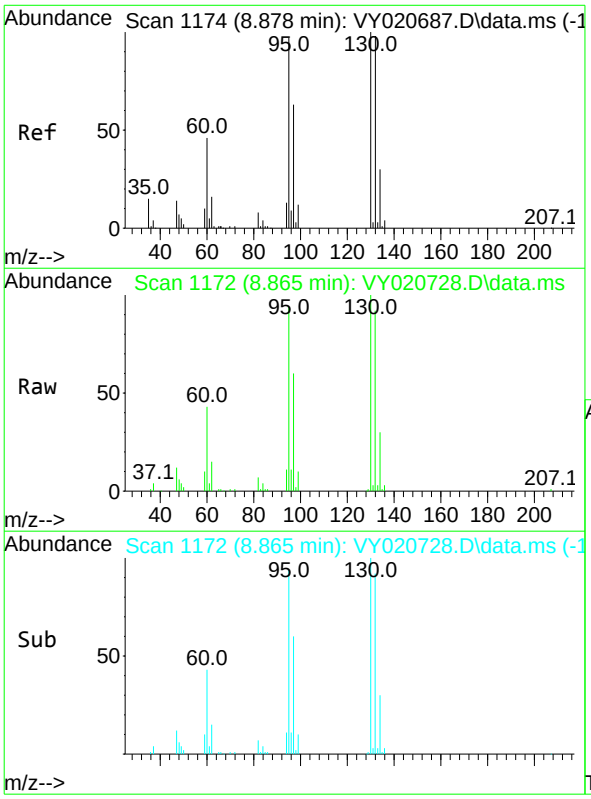
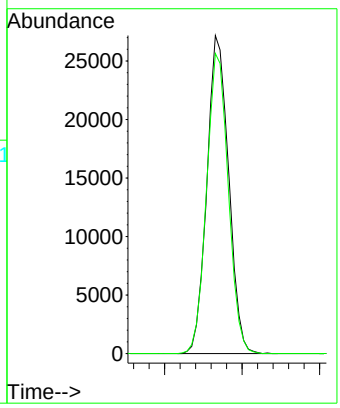
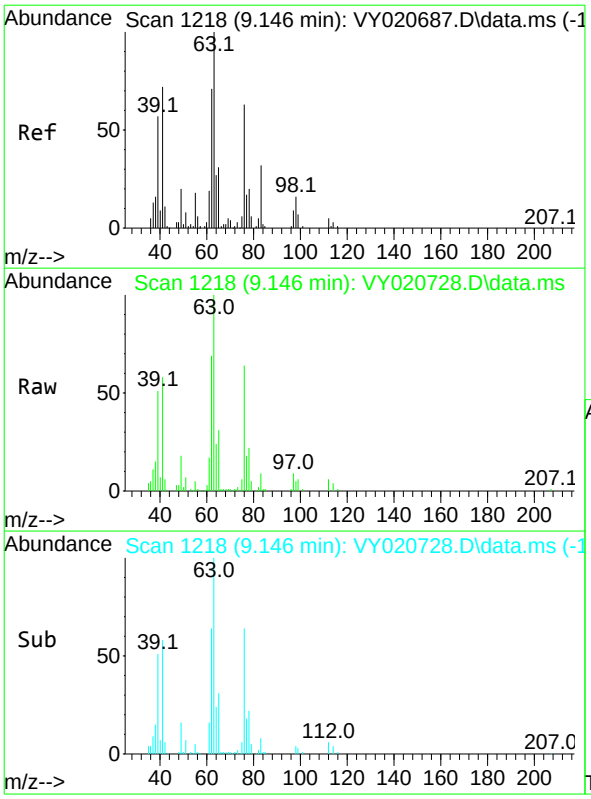



#44
Trichloroethene
Concen: 48.797 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.013 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:130 Resp: 52902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 94.3 | 0.0 | 194.8 |

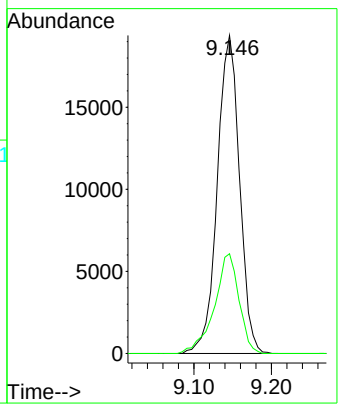





#45
1,2-Dichloropropane
Concen: 52.575 ug/l
RT: 9.146 min Scan# 12
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 63 Resp: 38629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 24.6 | 36.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

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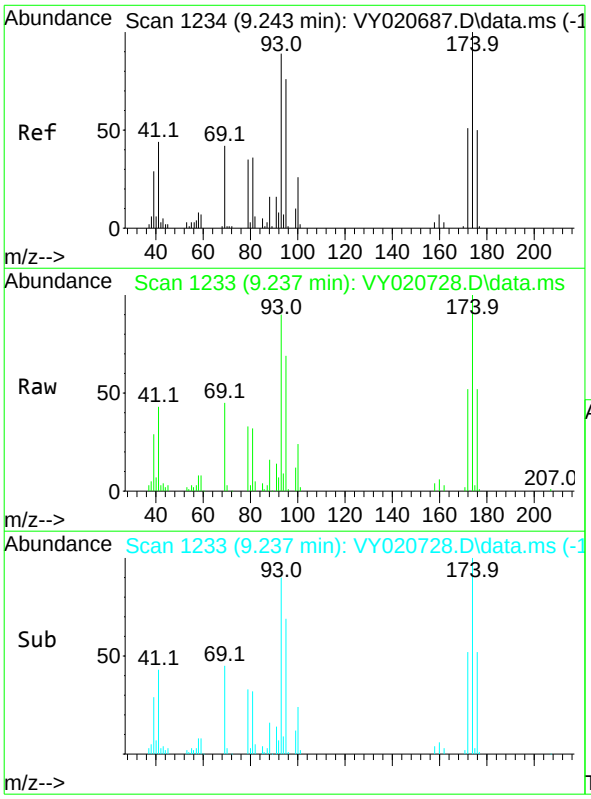
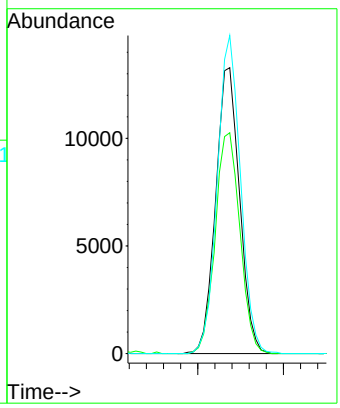
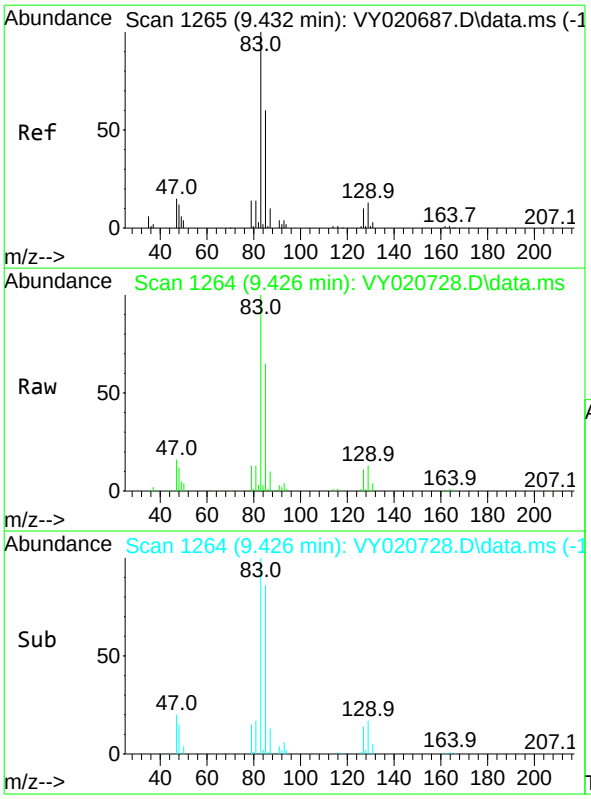



#46
Dibromomethane
Concen: 50.665 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 93 Resp: 25757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 79.7 | 67.8 | 101.8 |
| 174 | 108.0 | 89.4 | 134.0 |

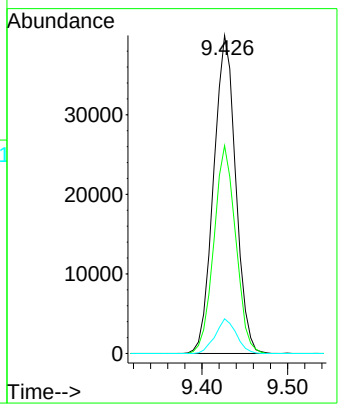





#47
Bromodichloromethane
Concen: 49.700 ug/l
RT: 9.426 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 83 Resp: 71632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.3 | 47.6 | 71.4 |
| 127 | 10.9 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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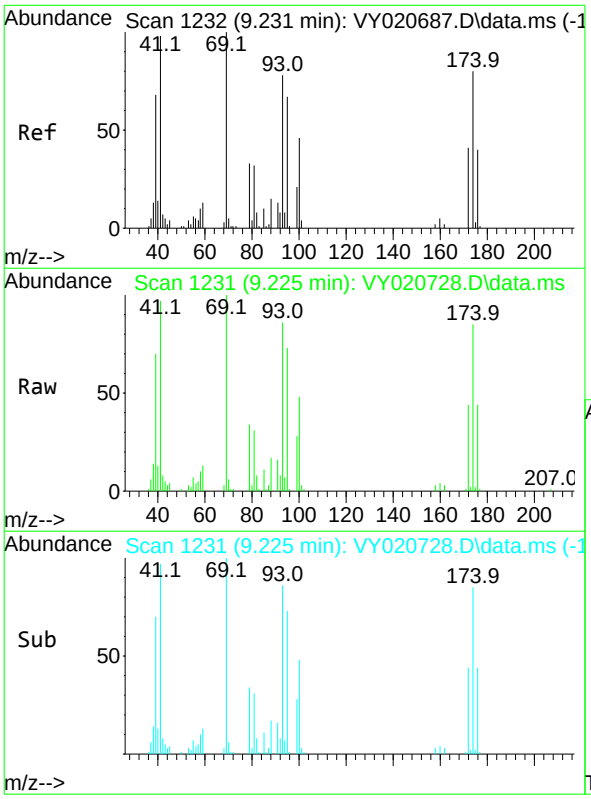
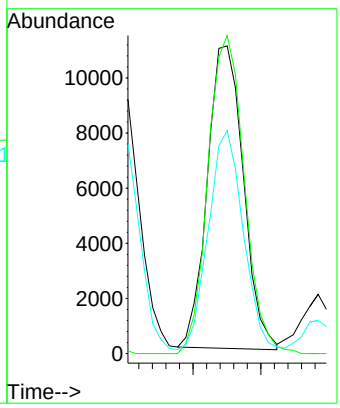
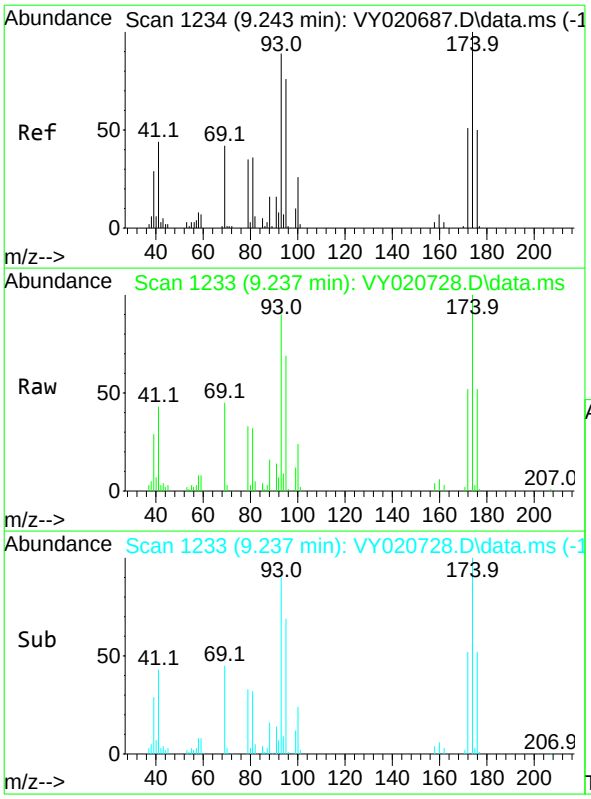



#48
Methyl methacrylate
Concen: 49.466 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 41 Resp: 20264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 105.8 | 83.1 | 124.7 |
| 39 | 70.4 | 57.3 | 85.9 |

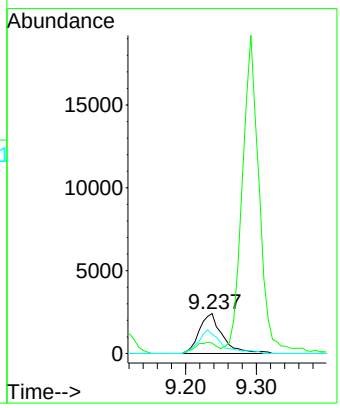





#49
1,4-Dioxane
Concen: 1130.206 ug/l
RT: 9.237 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 88 Resp: 5473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 26.4 | 22.1 | 33.1 |
| 58 | 58.8 | 46.7 | 70.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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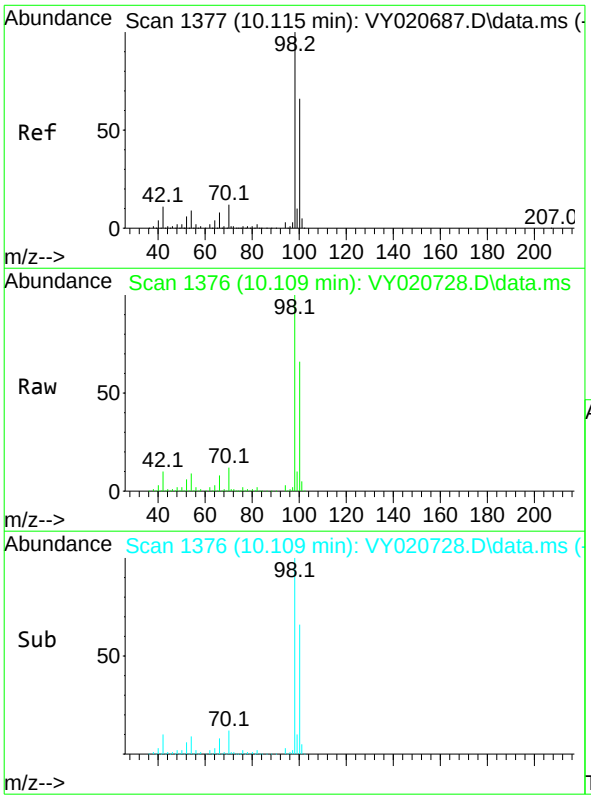
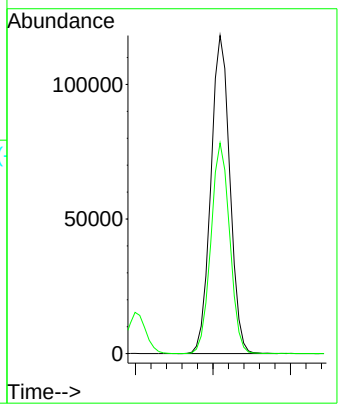
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

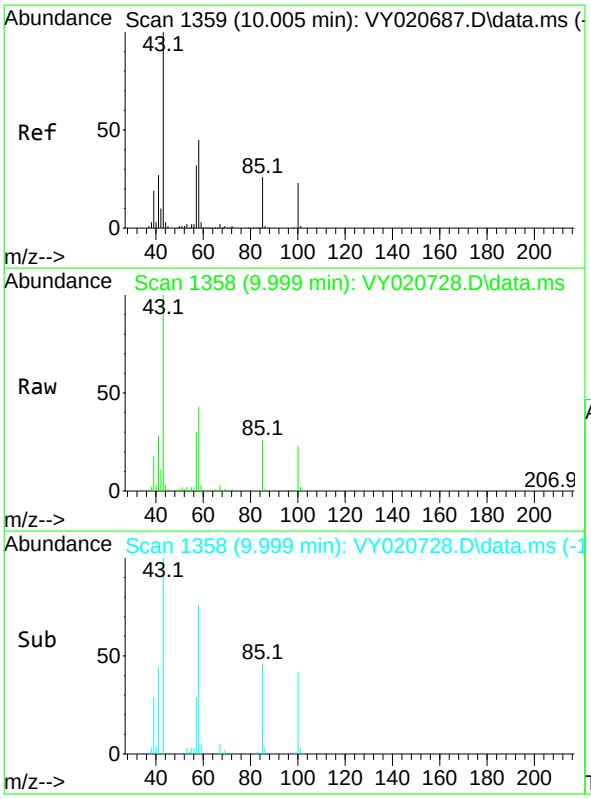



#50
Toluene-d8
Concen: 53.305 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 98 Resp: 201423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.2 | 78.4 |

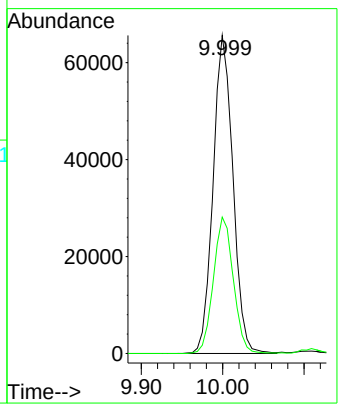





#51
4-Methyl-2-Pentanone
Concen: 262.443 ug/l
RT: 9.999 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 111120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.2 | 35.1 | 52.7 |




**Instrument :**
MSVOA_Y
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VSTDCCC050EC

**Manual Integrations**
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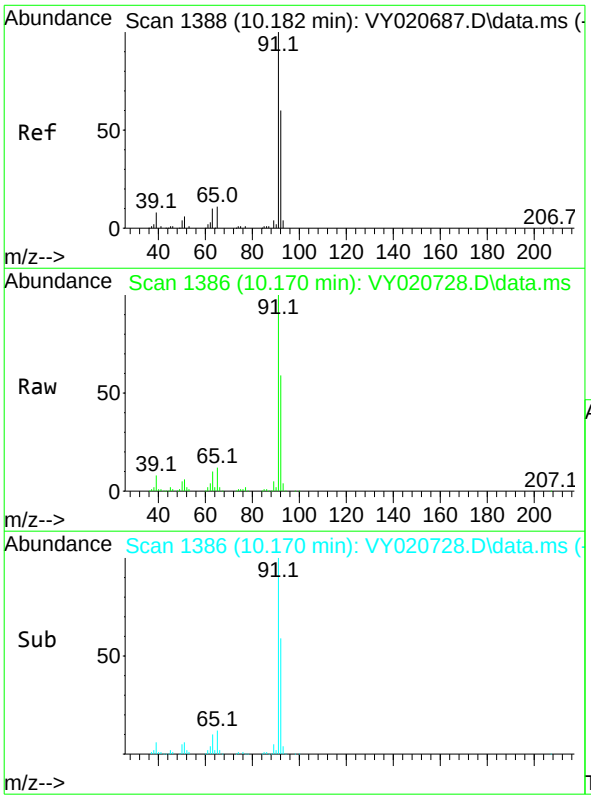
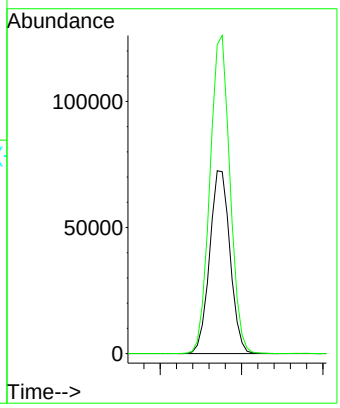
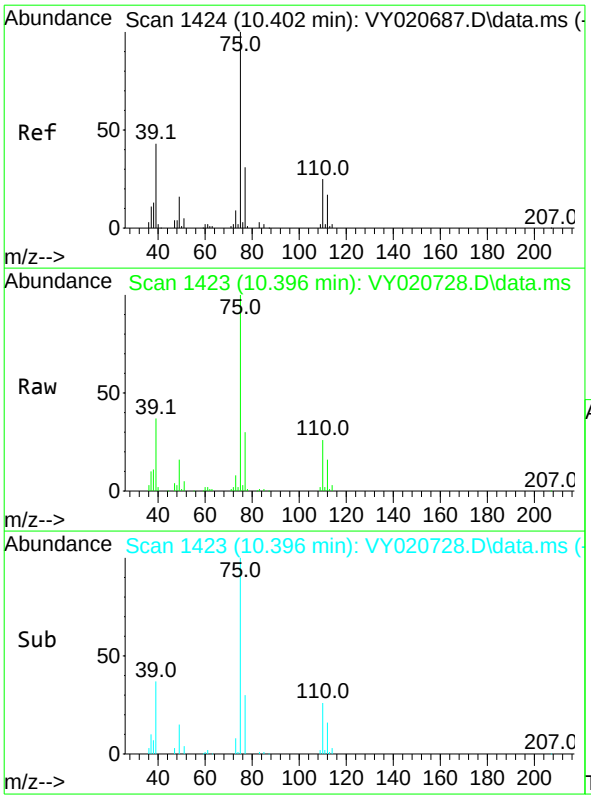



#52
Toluene
Concen: 50.676 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 92 Resp: 126070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.5 | 137.7 | 206.5 |

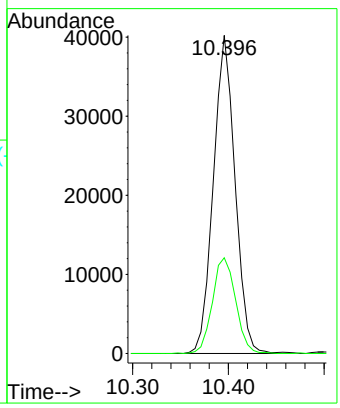





#53
t-1,3-Dichloropropene
Concen: 49.943 ug/l
RT: 10.396 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 75 Resp: 63222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.1 | 25.1 | 37.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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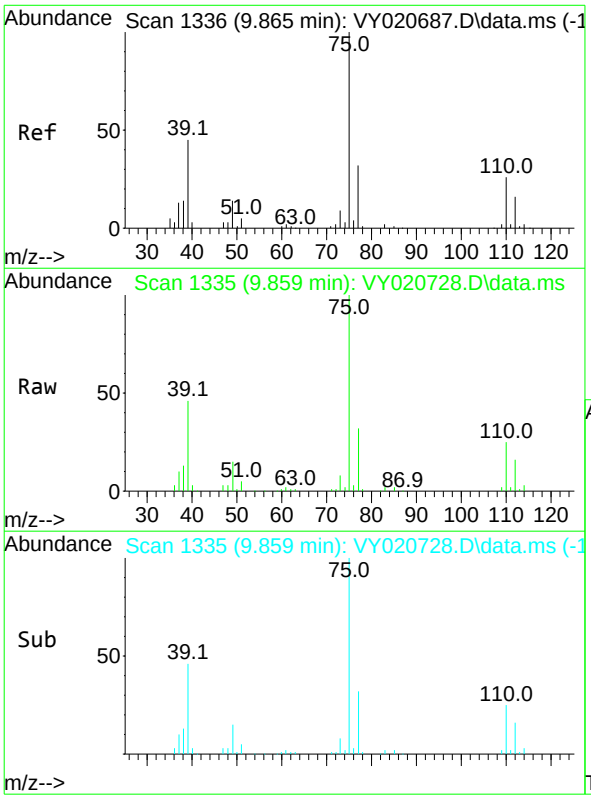
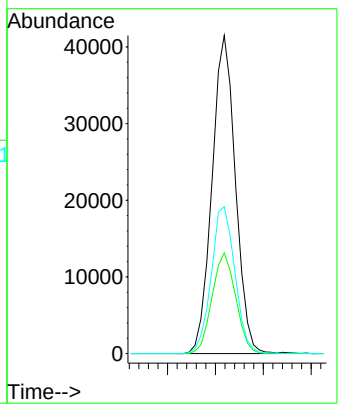
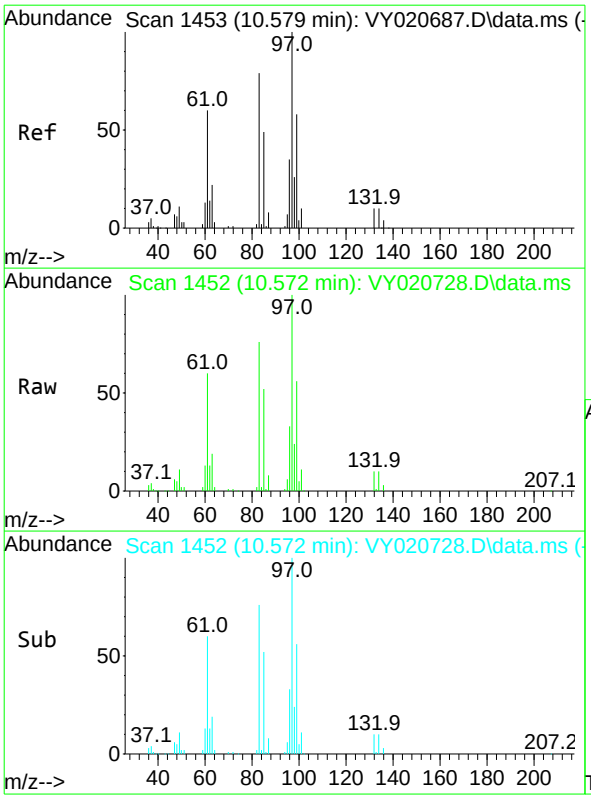



#54
cis-1,3-Dichloropropene
Concen: 50.773 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 75 Resp: 70450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.6 | 38.4 |
| 39 | 46.2 | 36.2 | 54.2 |

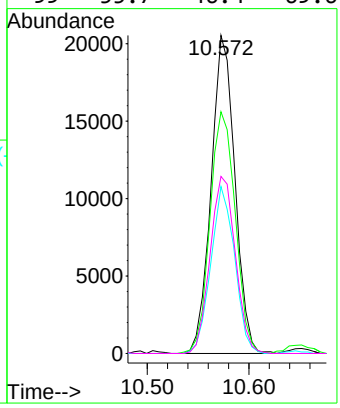





#55
1,1,2-Trichloroethane
Concen: 51.326 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.007 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 97 Resp: 33307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 76.0 | 63.1 | 94.7 |
| 85 | 52.5 | 39.5 | 59.3 |
| 99 | 55.7 | 46.4 | 69.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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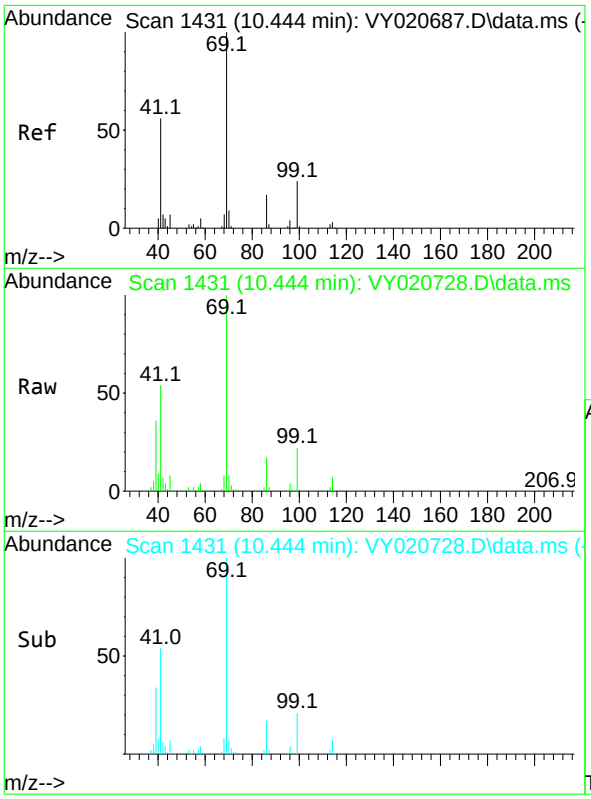
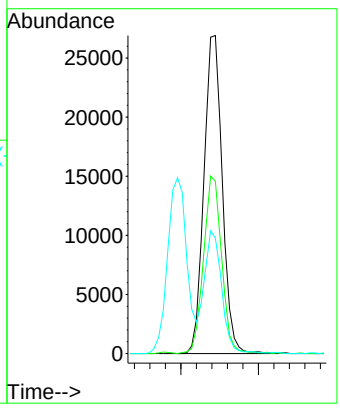
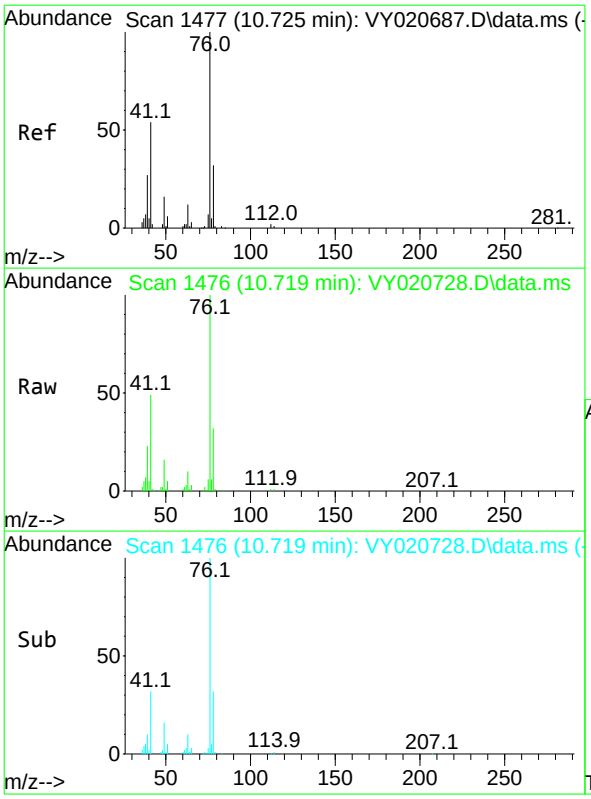



#56
Ethyl methacrylate
Concen: 51.971 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 69 Resp: 44306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 55.3 | 43.8 | 65.6 |
| 39 | 36.4 | 32.0 | 48.0 |

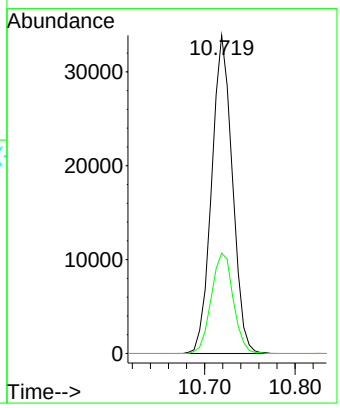





#57
1,3-Dichloropropane
Concen: 51.138 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 76 Resp: 53860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.5 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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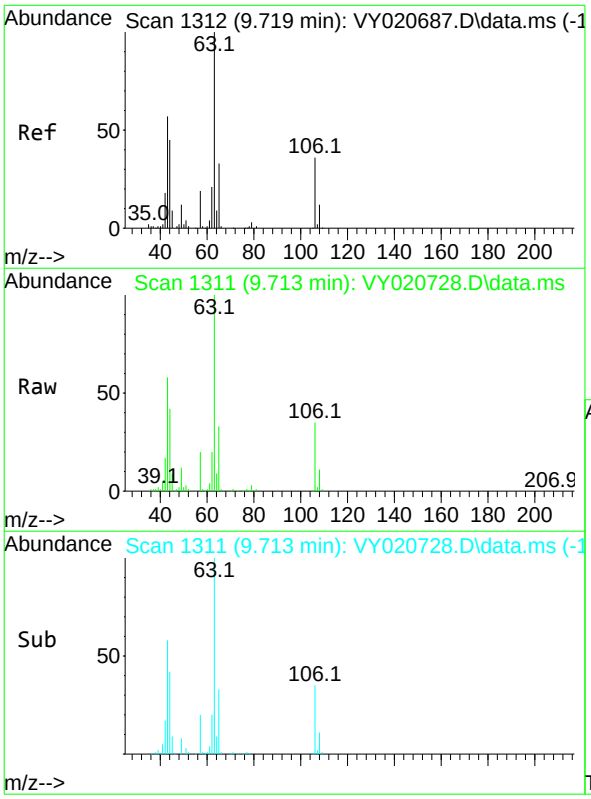
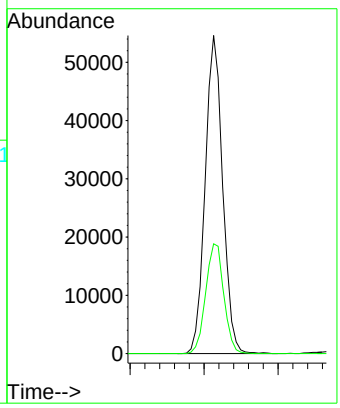
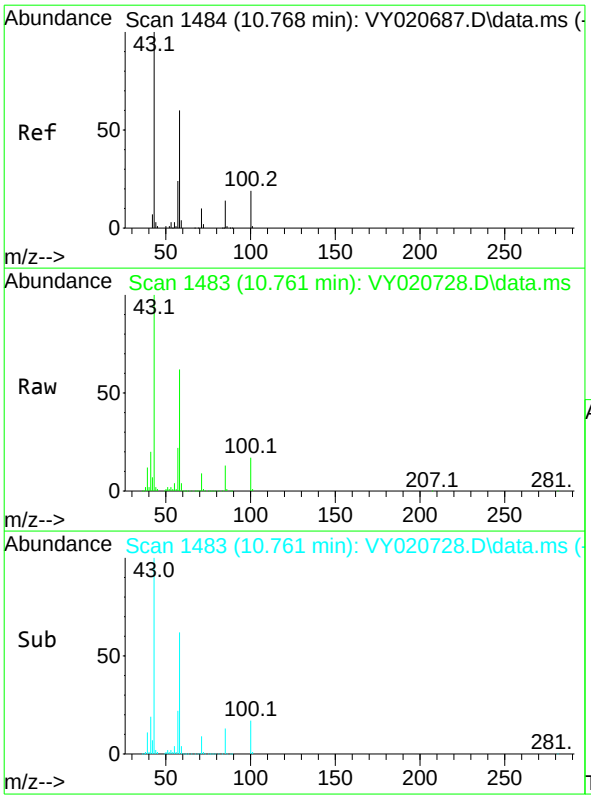



#58
2-Chloroethyl Vinyl ether
Concen: 300.757 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 63 Resp: 89410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 35.7 | 29.1 | 43.7 |

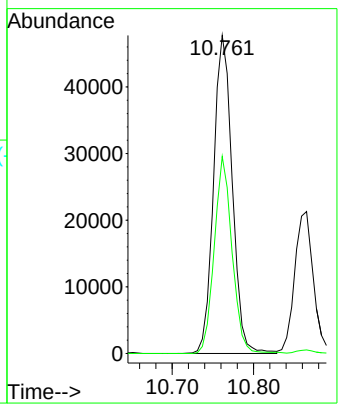





#59
2-Hexanone
Concen: 272.444 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.007 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 76163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.9 | 30.1 | 90.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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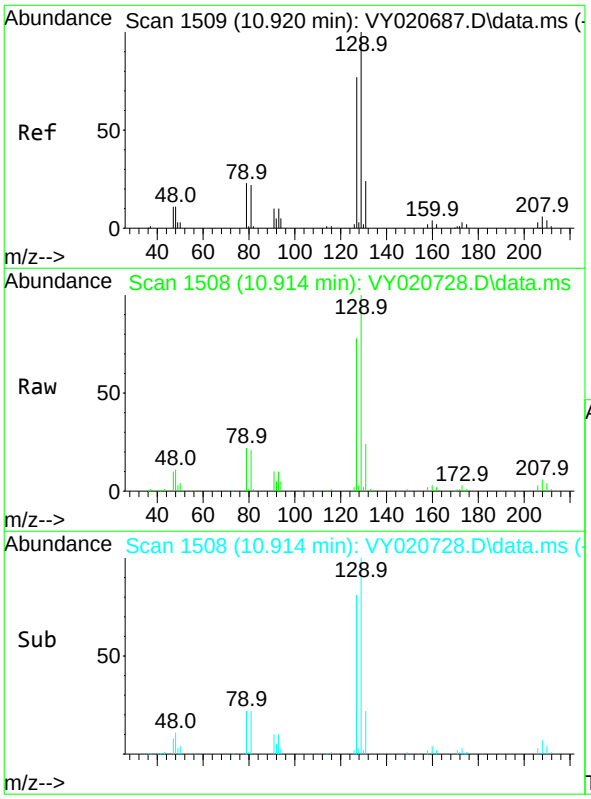
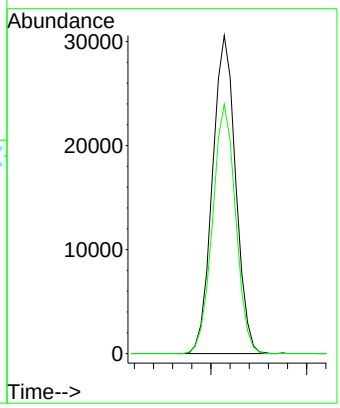
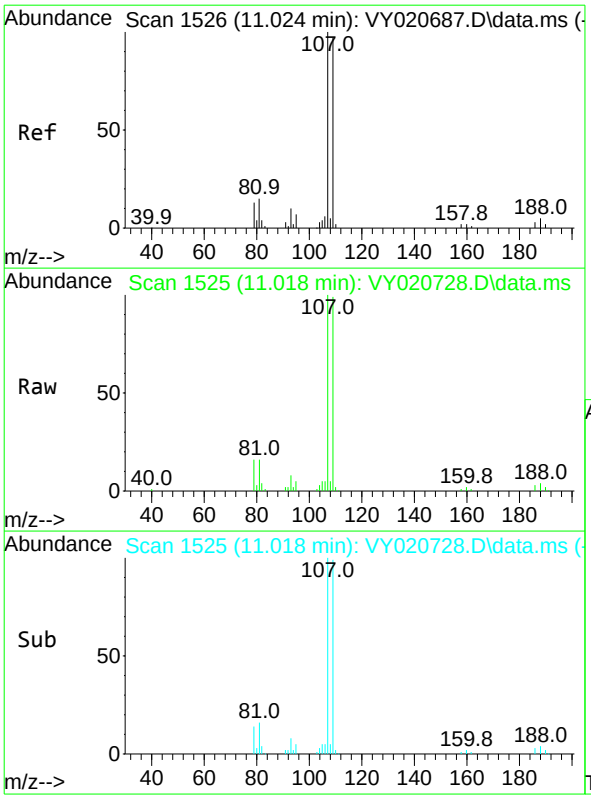



#60
Dibromochloromethane
Concen: 49.038 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:129 Resp: 51420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 38.5 | 115.5 |

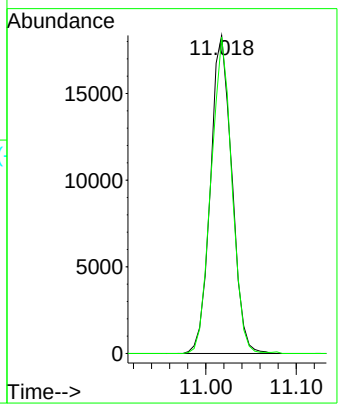





#61
1,2-Dibromoethane
Concen: 49.418 ug/l
RT: 11.018 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:107 Resp: 30175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.8 | 75.5 | 113.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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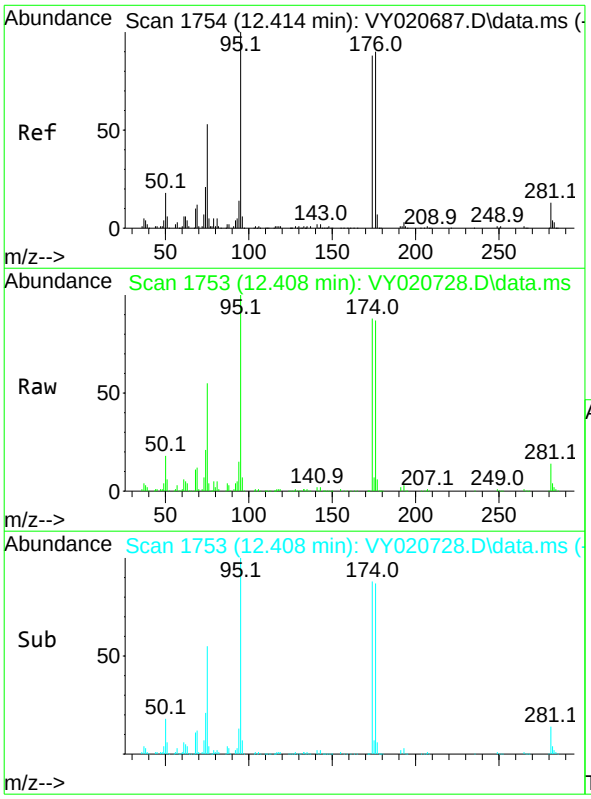
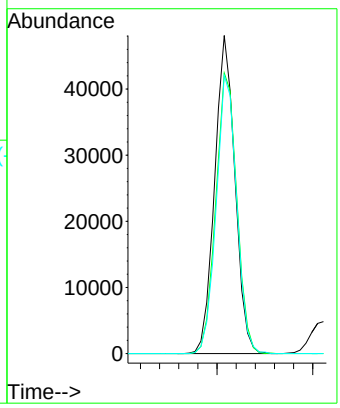
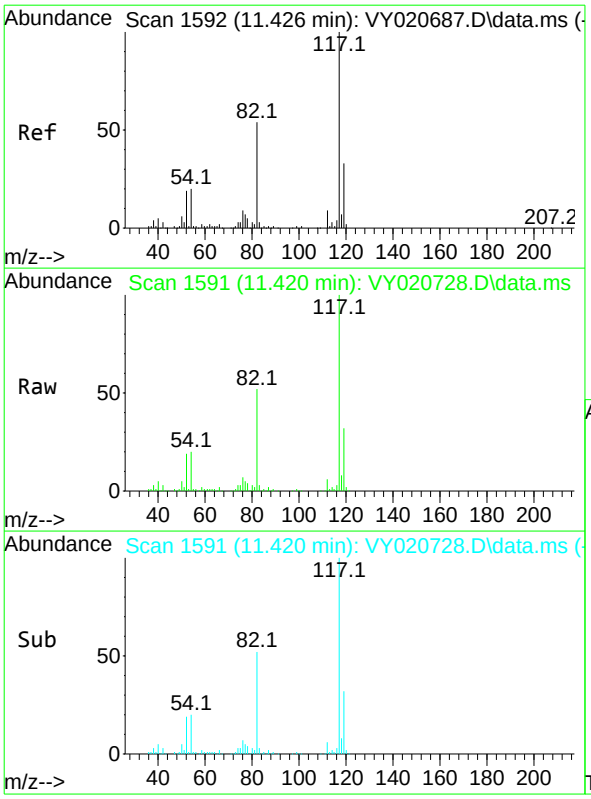



#62
4-Bromofluorobenzene
Concen: 56.112 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 95 Resp: 70702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.1 | 0.0 | 179.2 |
| 176 | 88.0 | 0.0 | 179.8 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:117 Resp: 148030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.7 | 43.4 | 65.2 |
| 119 | 32.0 | 26.6 | 39.8 |

**Instrument :**
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VSTDCCC050EC

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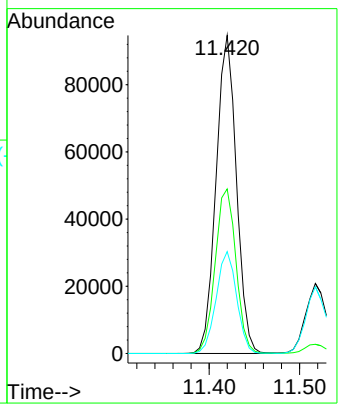
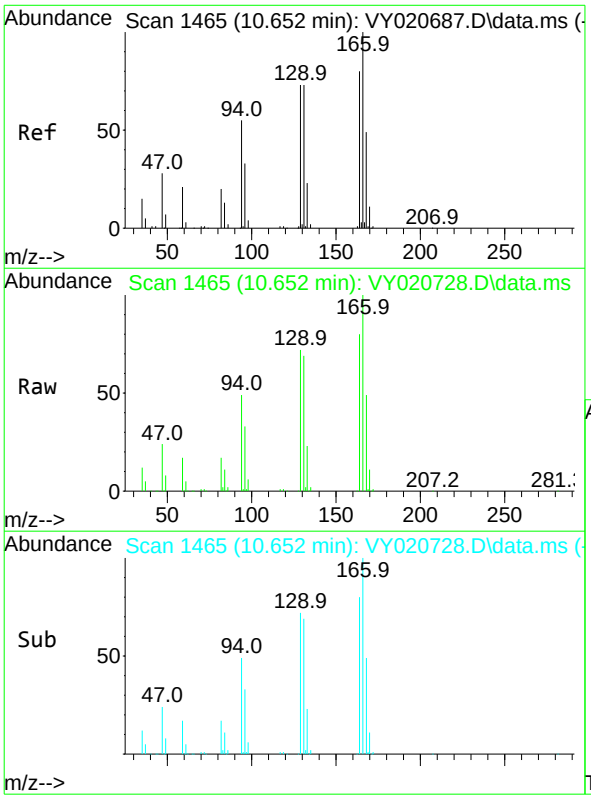
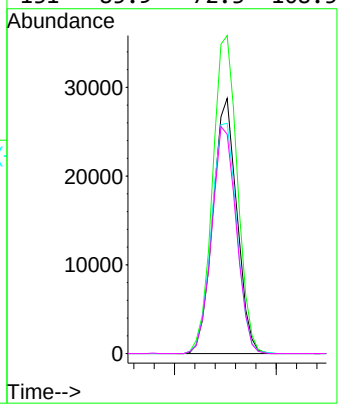


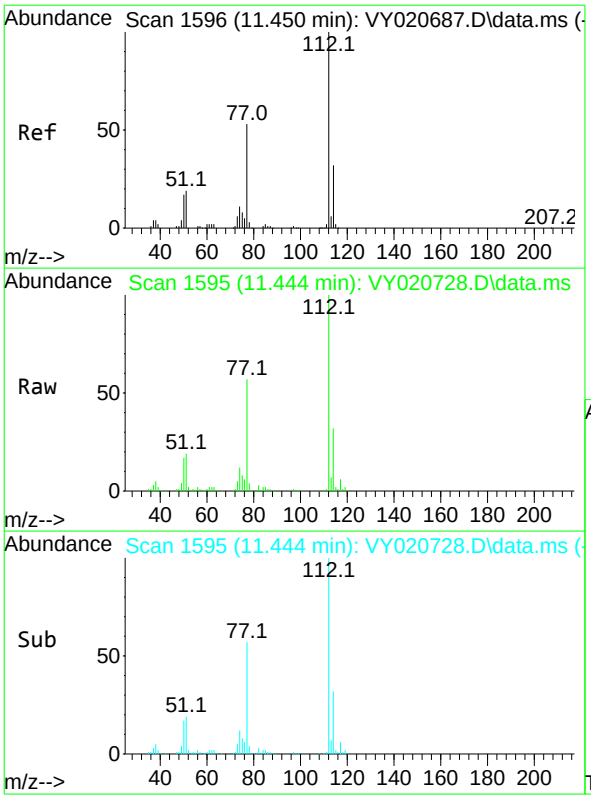




#64
Tetrachloroethene
Concen: 46.676 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:164 Resp: 47206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.6 | 99.6 | 149.4 |
| 129 | 90.2 | 73.0 | 109.4 |
| 131 | 85.9 | 72.3 | 108.5 |

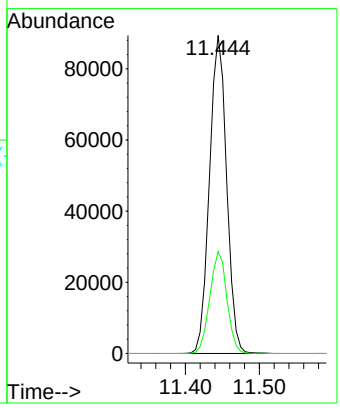





#65
Chlorobenzene
Concen: 49.537 ug/l
RT: 11.444 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:112 Resp: 143586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.1 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

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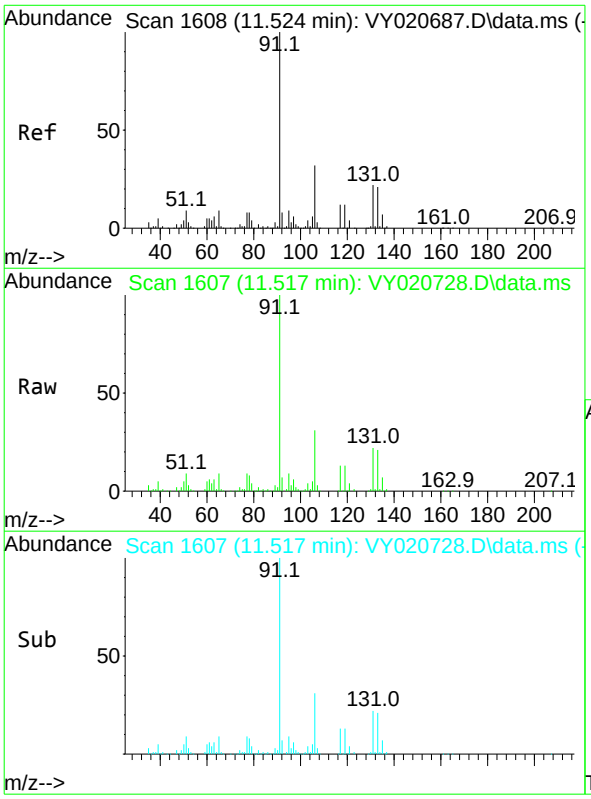
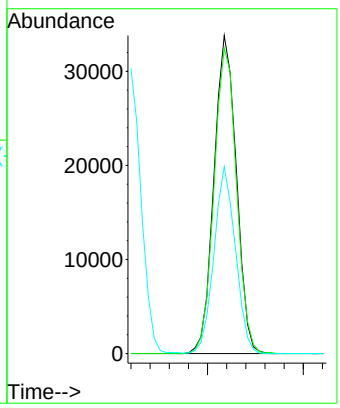
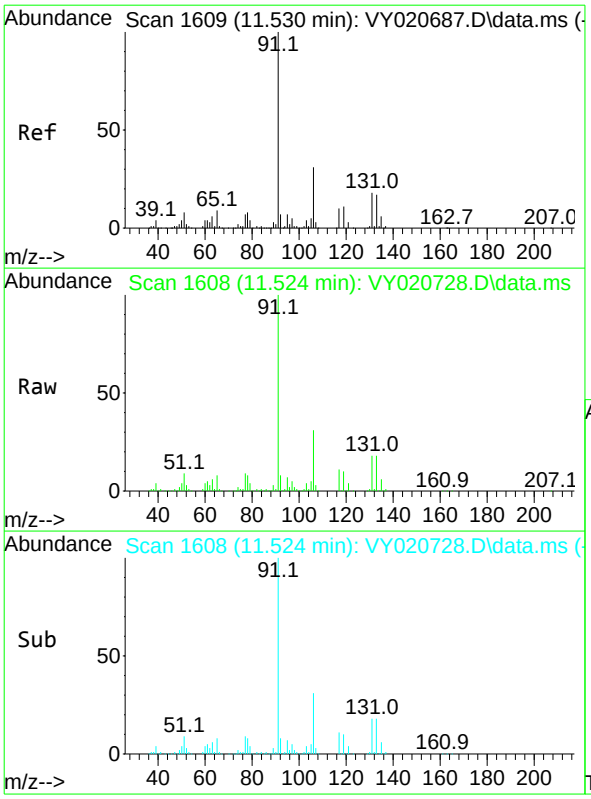



#66
1,1,1,2-Tetrachloroethane
Concen: 48.804 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.007 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:131 Resp: 54805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.5 | 48.6 | 145.9 |
| 119 | 56.5 | 28.4 | 85.3 |

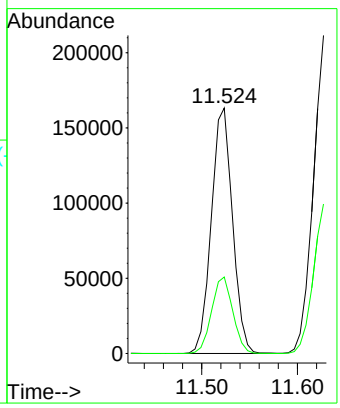





#67
Ethyl Benzene
Concen: 49.546 ug/l
RT: 11.524 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 91 Resp: 251000

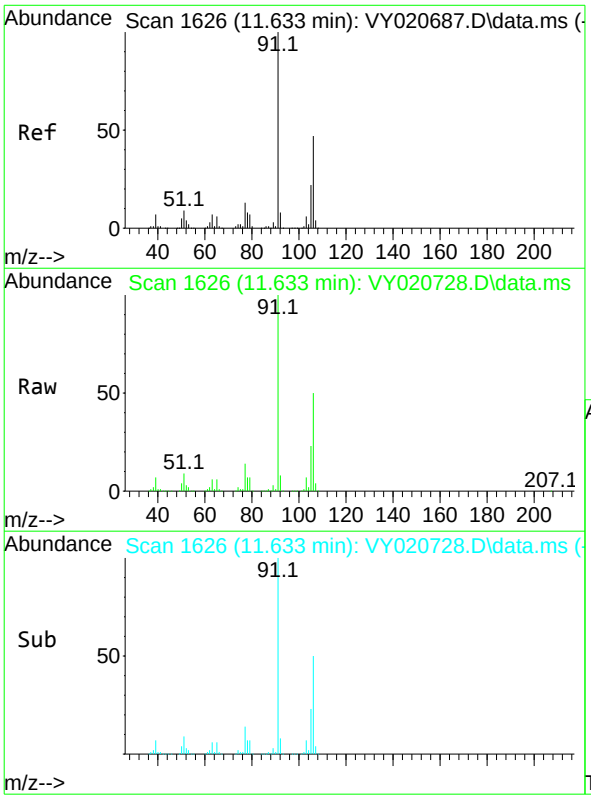
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 24.5 | 36.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

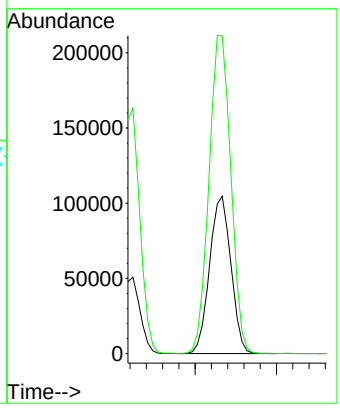
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

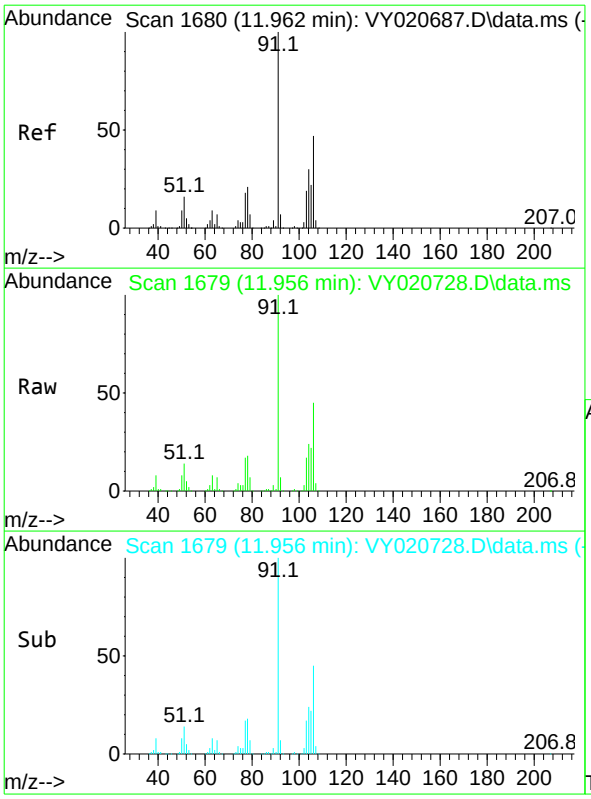



#68
m/p-Xylenes
Concen: 98.695 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:106 Resp: 190725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.9 | 166.6 | 250.0 |

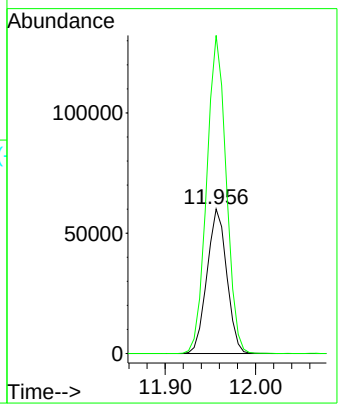





#69
o-Xylene
Concen: 49.380 ug/l
RT: 11.956 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:106 Resp: 91171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.1 | 108.6 | 325.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 12/27/2024
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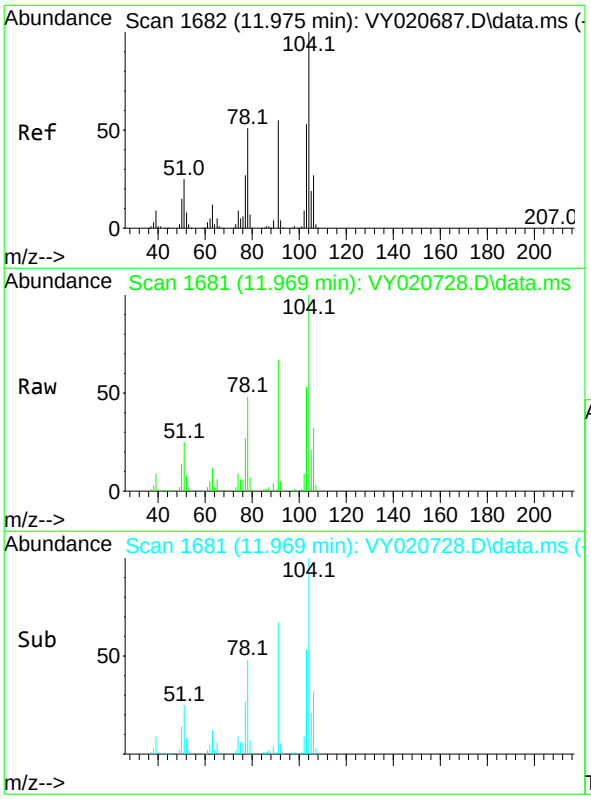
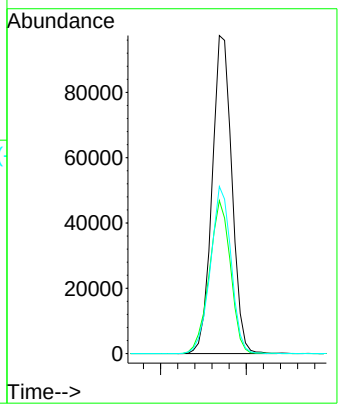
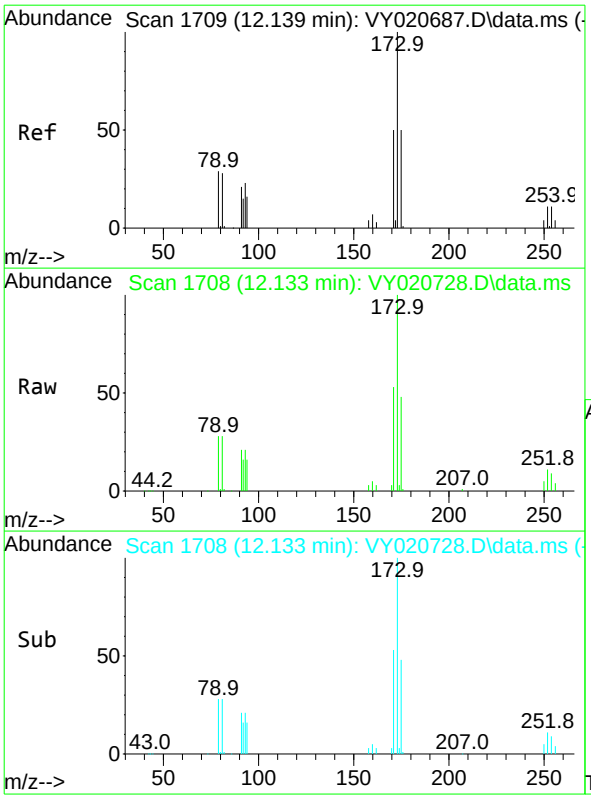



#70
Styrene
Concen: 50.397 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:104 Resp: 156202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.6 | 43.0 | 64.4 |
| 103 | 54.9 | 44.4 | 66.6 |

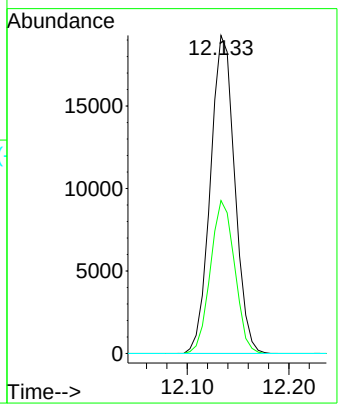





#71
Bromoform
Concen: 49.586 ug/l
RT: 12.133 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:173 Resp: 32013

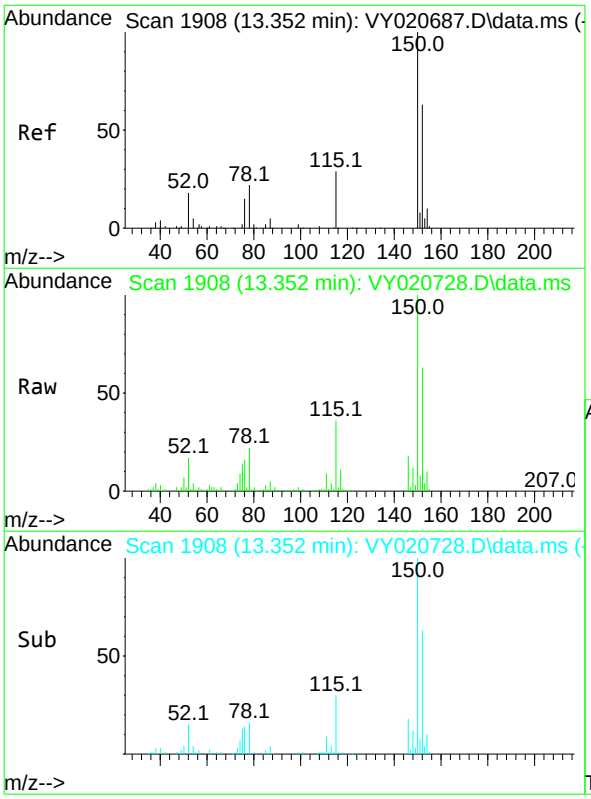
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

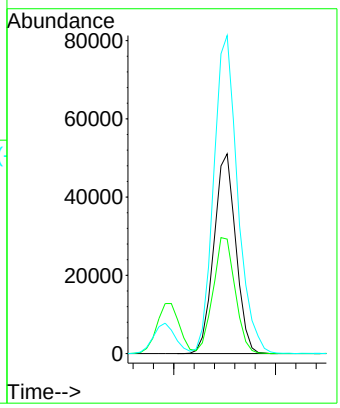
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

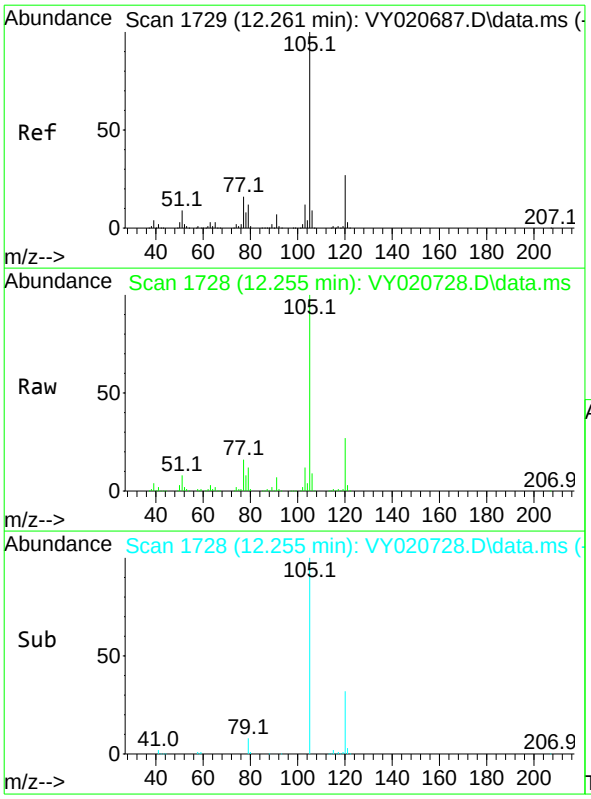



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:152 Resp: 76525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.5 | 30.3 | 90.9 |
| 150 | 173.6 | 0.0 | 349.0 |

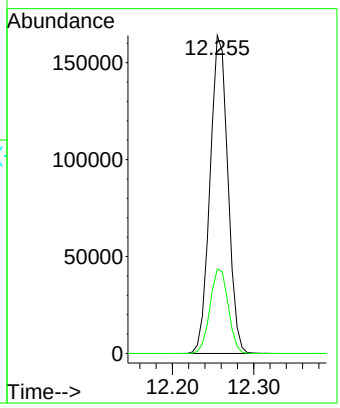





#73
Isopropylbenzene
Concen: 47.089 ug/l
RT: 12.255 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:105 Resp: 249657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.3 | 39.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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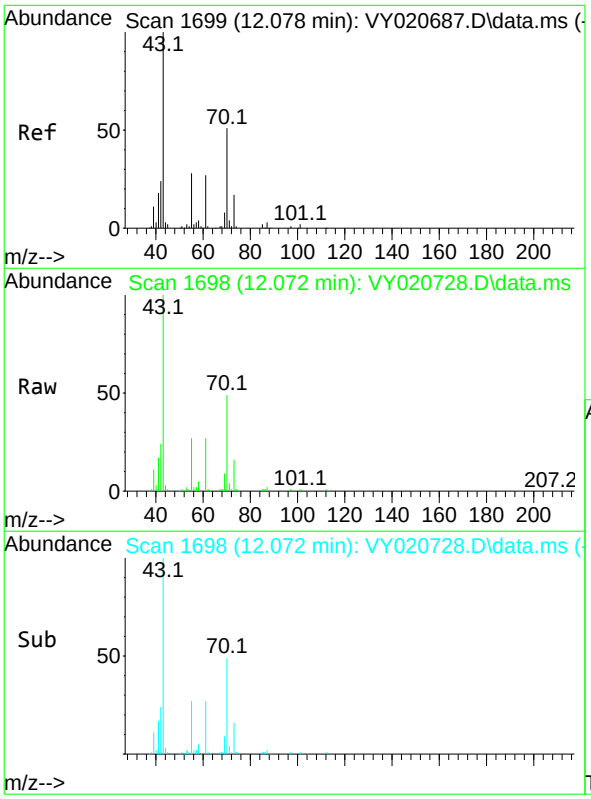
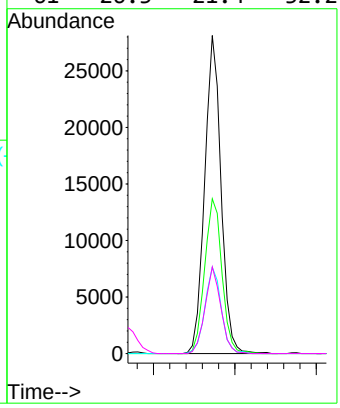
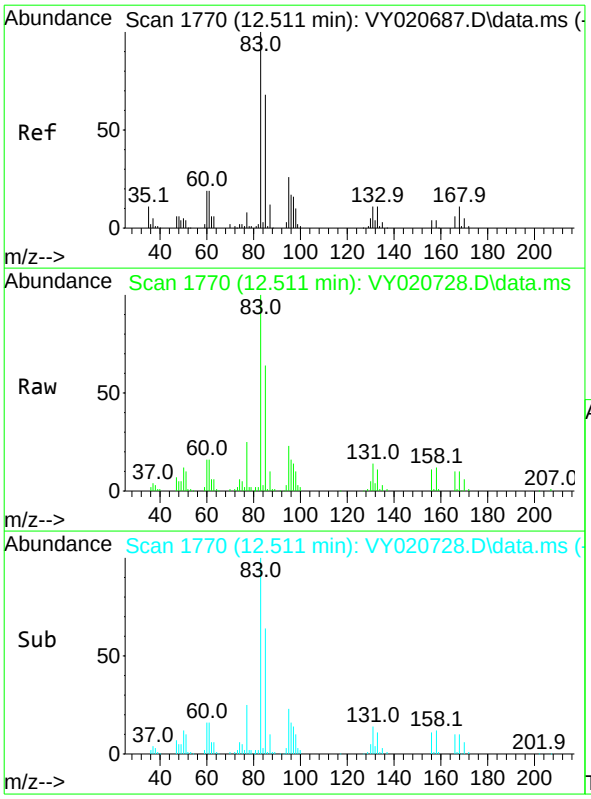



#74
N-amyl acetate
Concen: 52.059 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 39222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 51.5 | 39.7 | 59.5 |
| 55 | 27.2 | 21.5 | 32.3 |
| 61 | 26.3 | 21.4 | 32.2 |

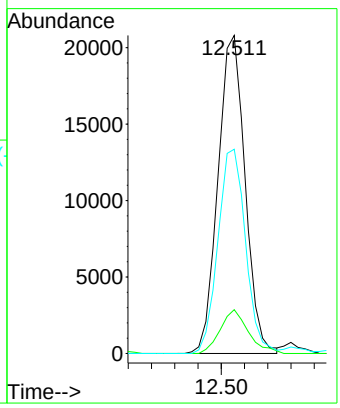





#75
1,1,2,2-Tetrachloroethane
Concen: 49.563 ug/l
RT: 12.511 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 83 Resp: 33686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.3 | 6.9 | 20.7 |
| 85 | 65.4 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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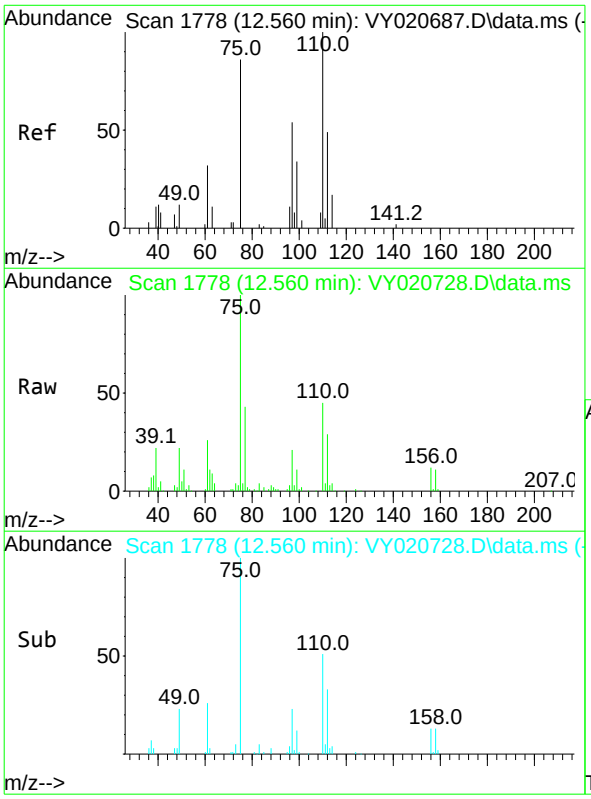
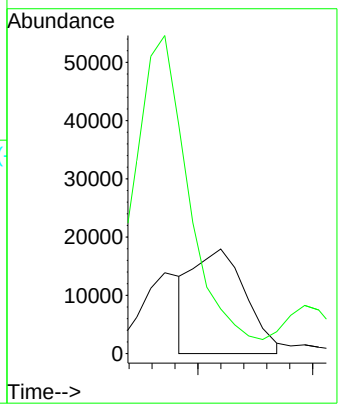
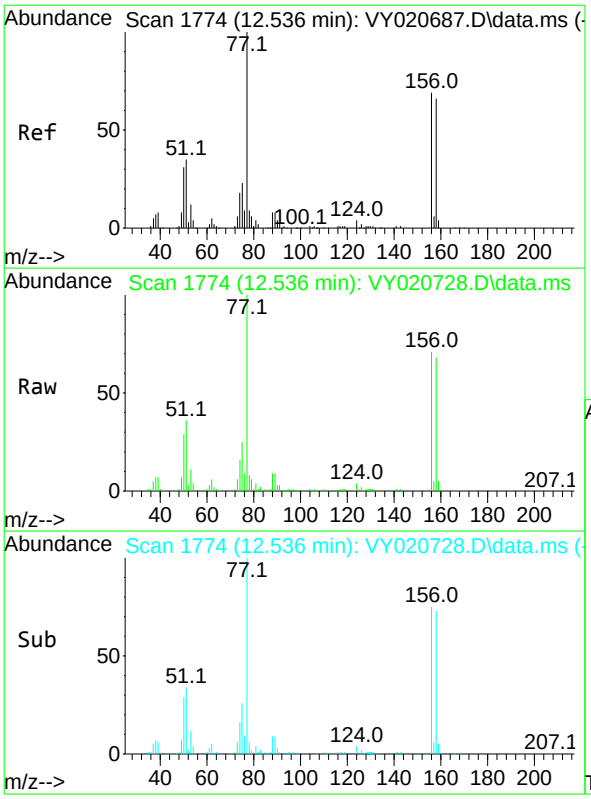



#76
1,2,3-Trichloropropane
Concen: 59.202 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 75 Resp: 28814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

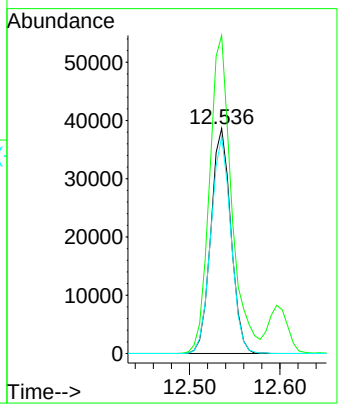





#77
Bromobenzene
Concen: 48.546 ug/l
RT: 12.536 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:156 Resp: 59248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 156.2 | 78.3 | 235.0 |
| 158 | 96.7 | 48.3 | 144.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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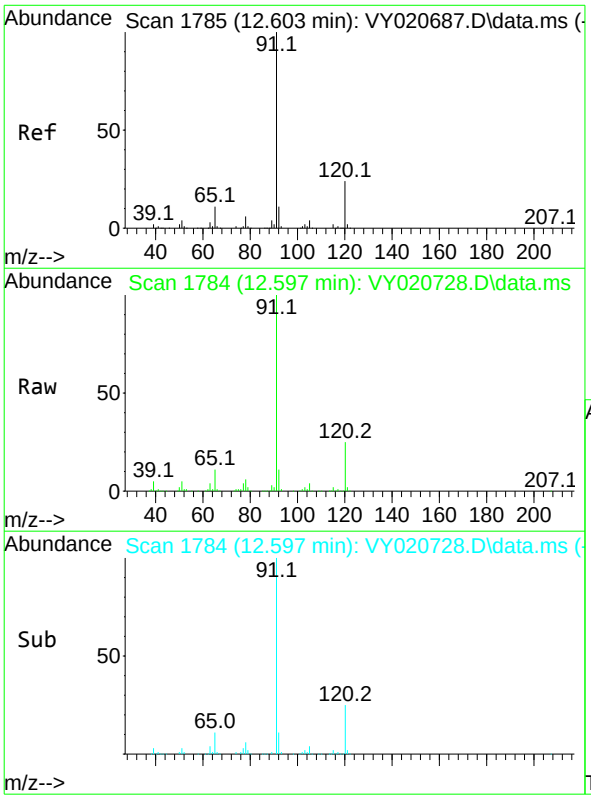
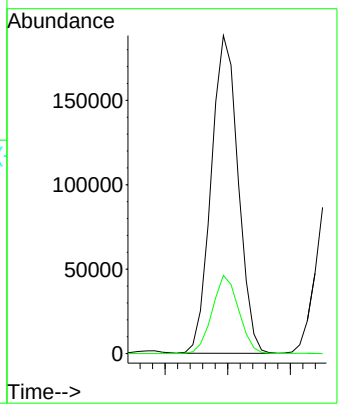
Supervised By :Semsettin Yesilyurt 12/27/2024

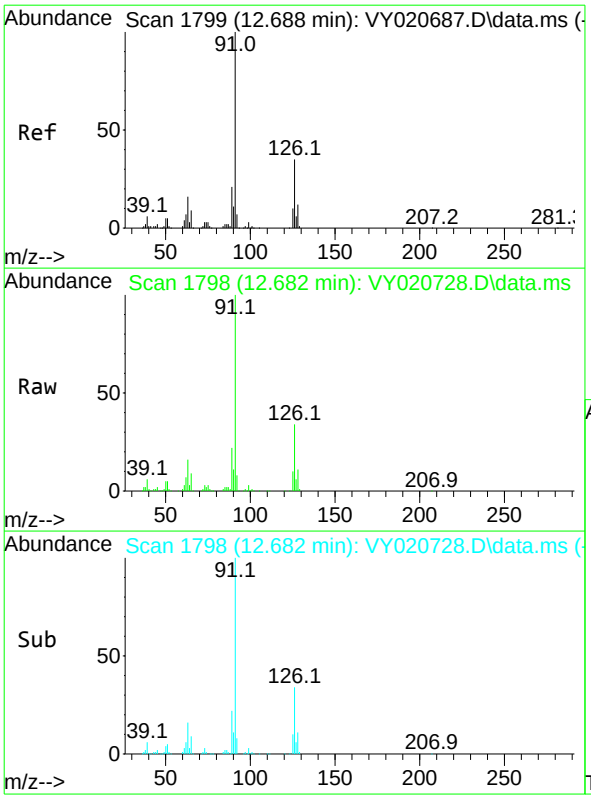



#78
n-propylbenzene
Concen: 47.482 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 91 Resp: 282155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.1 | 12.3 | 36.8 |

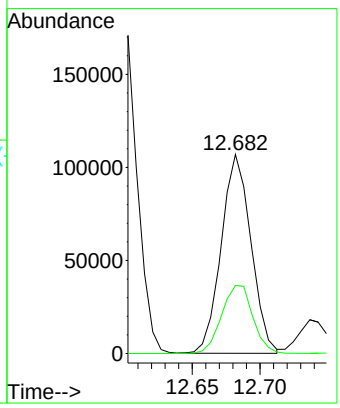





#79
2-Chlorotoluene
Concen: 48.116 ug/l
RT: 12.682 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 91 Resp: 162993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.9 | 17.8 | 53.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

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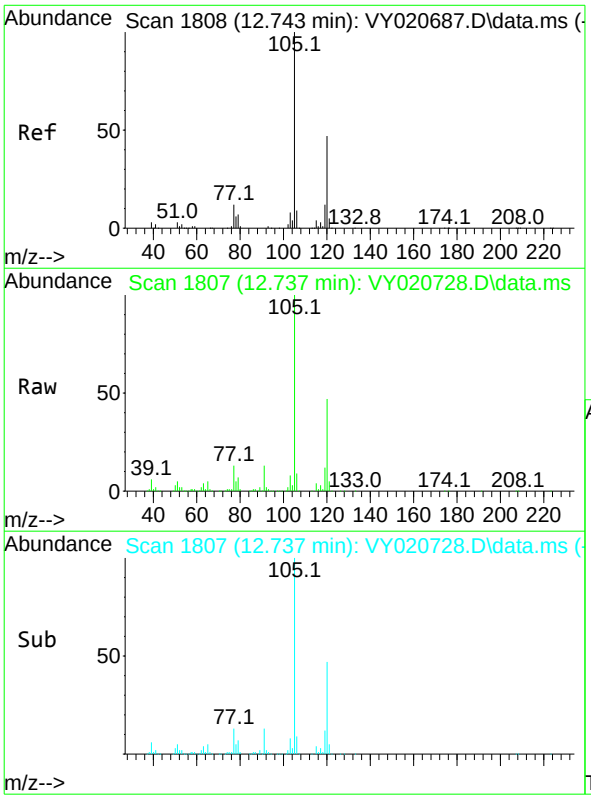
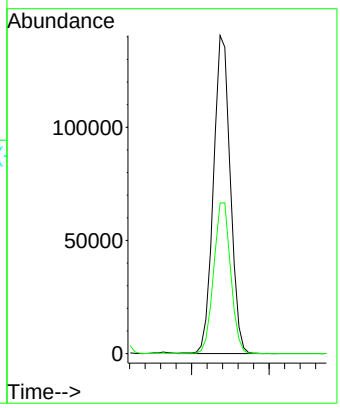
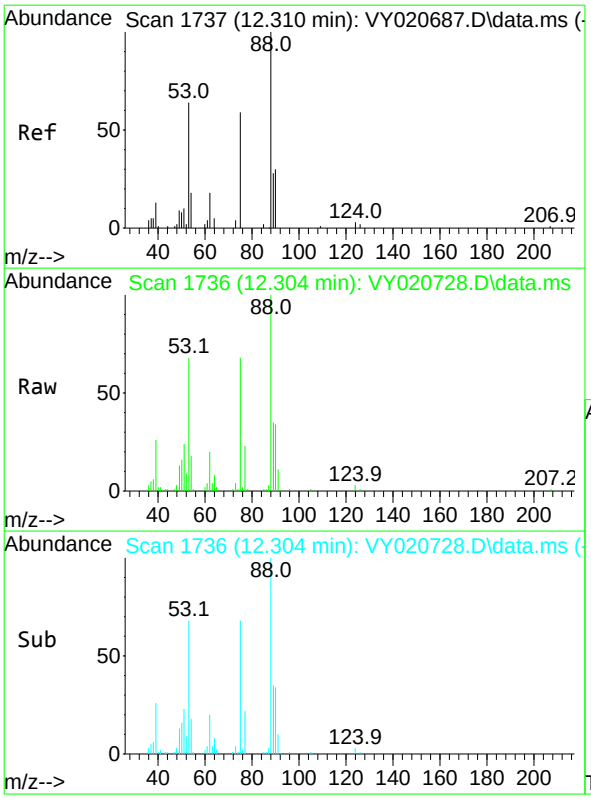



#80
1,3,5-Trimethylbenzene
Concen: 48.002 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:105 Resp: 212033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.9 | 71.7 |






#81
trans-1,4-Dichloro-2-butene
Concen: 49.030 ug/l
RT: 12.304 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 75 Resp: 12073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 98.5 | 83.1 | 124.7 |
| 89 | 52.3 | 40.6 | 61.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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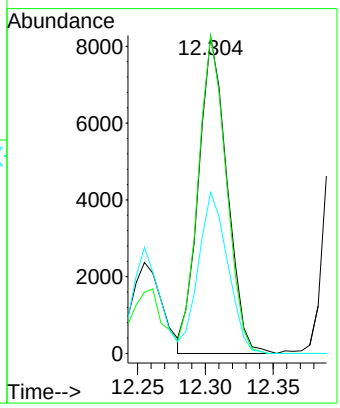
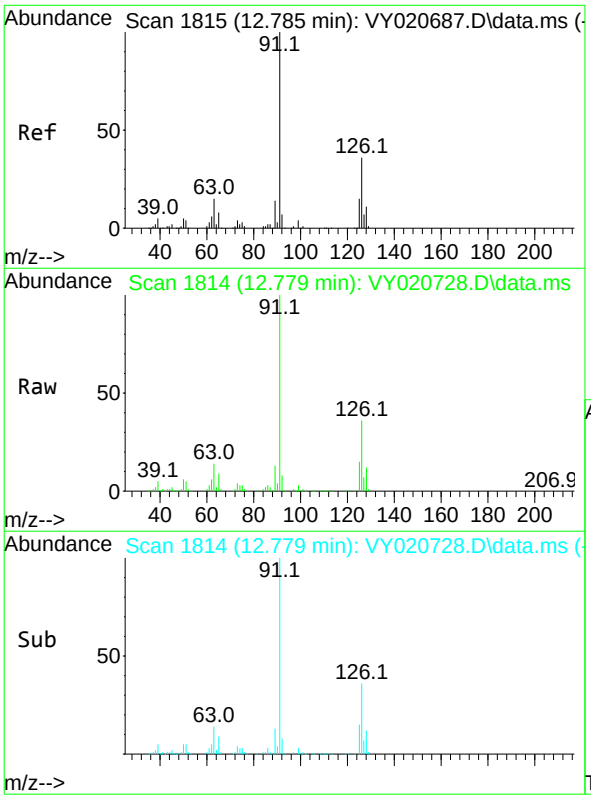
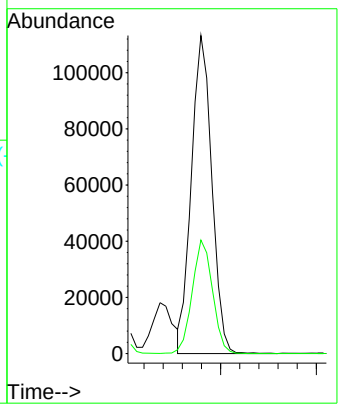


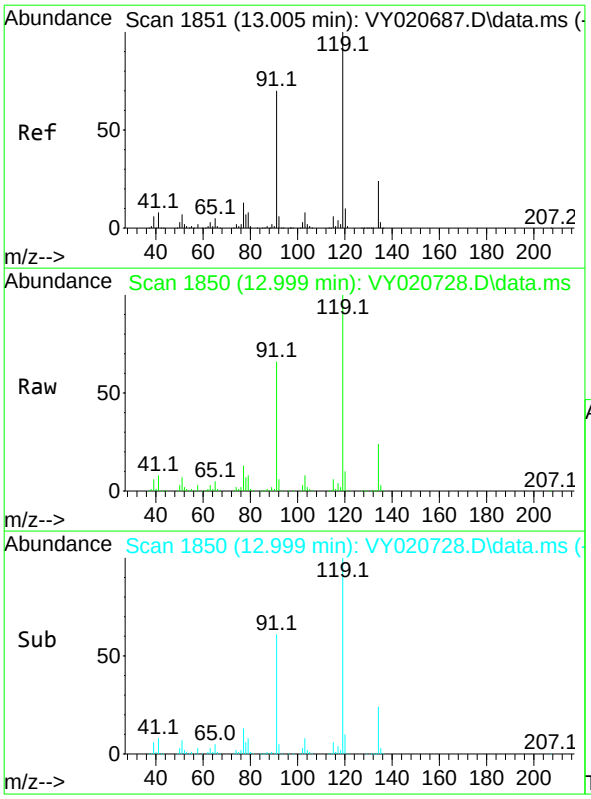




#82
4-Chlorotoluene
Concen: 47.924 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 91 Resp: 167778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.5 | 17.8 | 53.5 |






#83
tert-Butylbenzene
Concen: 46.437 ug/l
RT: 12.999 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:119 Resp: 191560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.2 | 33.6 | 100.8 |
| 134 | 27.0 | 13.4 | 40.2 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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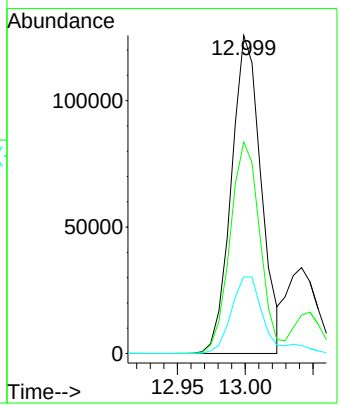
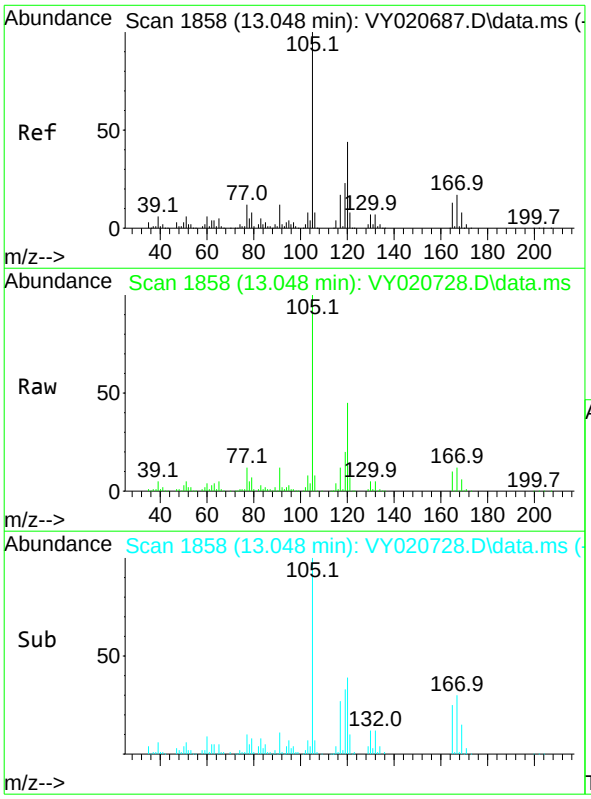
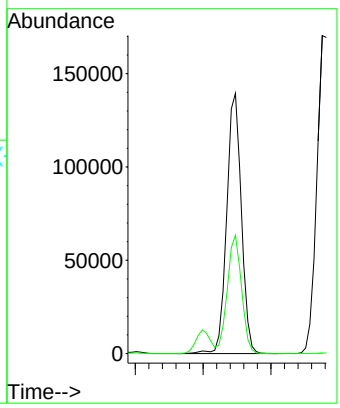


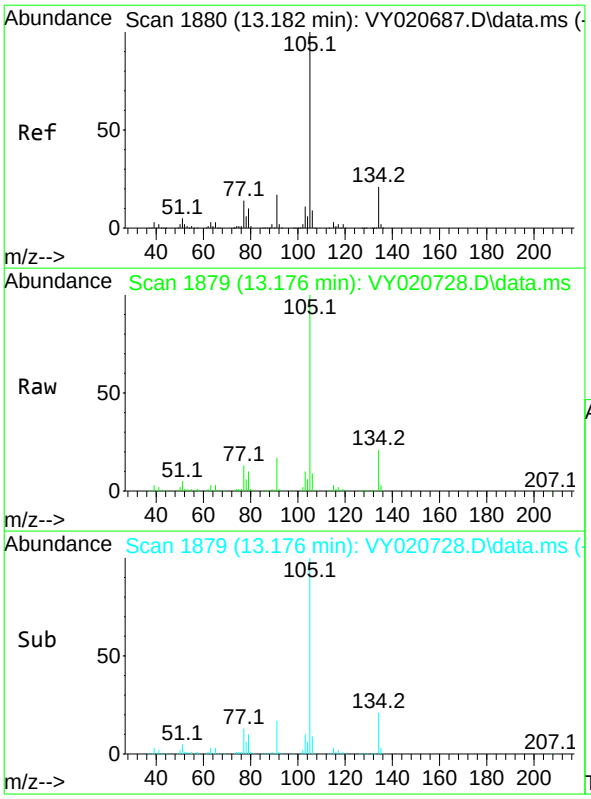




#84
1,2,4-Trimethylbenzene
Concen: 48.661 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:105 Resp: 209170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 21.8 | 65.3 |

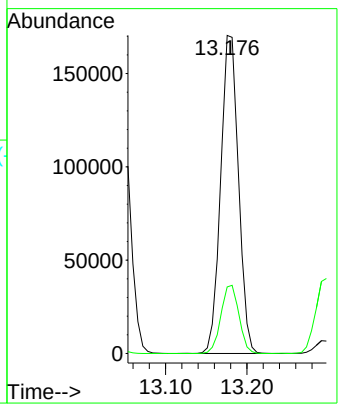





#85
sec-Butylbenzene
Concen: 46.679 ug/l
RT: 13.176 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:105 Resp: 259512

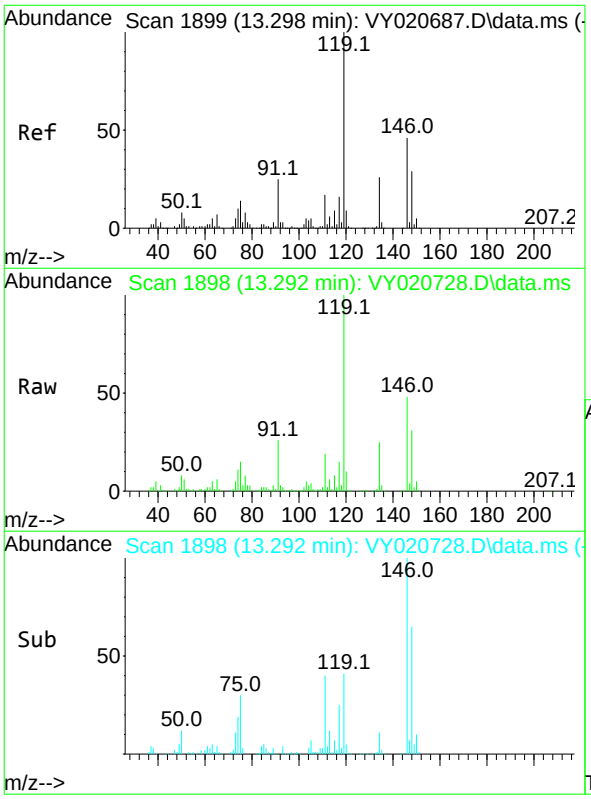
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.7 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

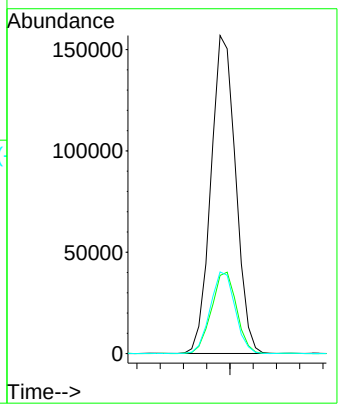
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

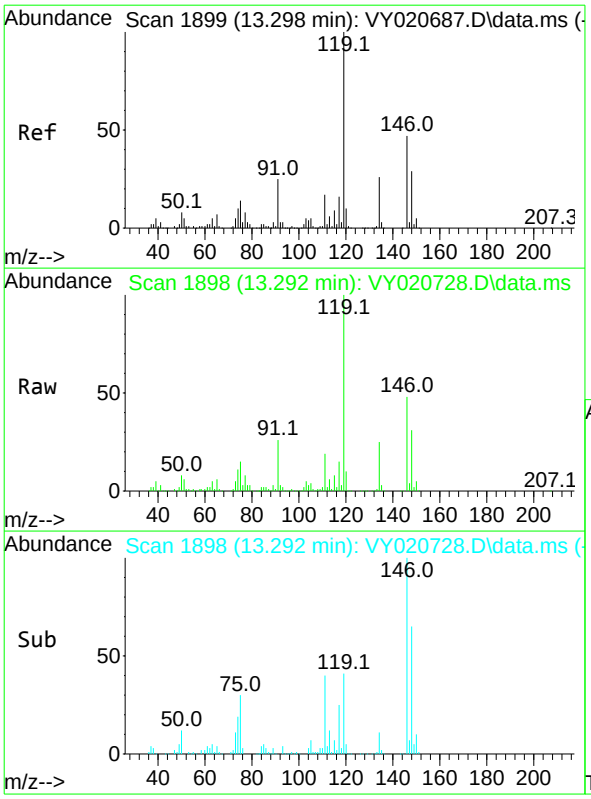



#86
p-Isopropyltoluene
Concen: 46.789 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:119 Resp: 231821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 13.4 | 40.2 |
| 91 | 25.8 | 12.9 | 38.6 |

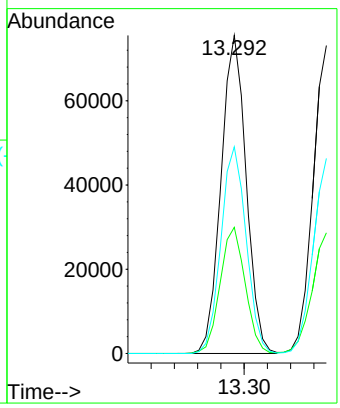





#87
1,3-Dichlorobenzene
Concen: 47.503 ug/l
RT: 13.292 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:146 Resp: 113309

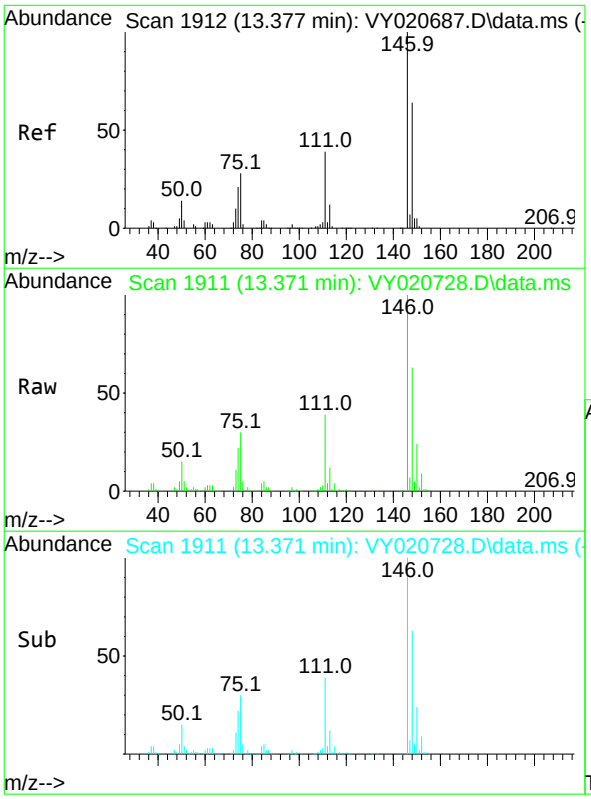
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 19.3 | 57.8 |
| 148 | 65.4 | 31.1 | 93.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

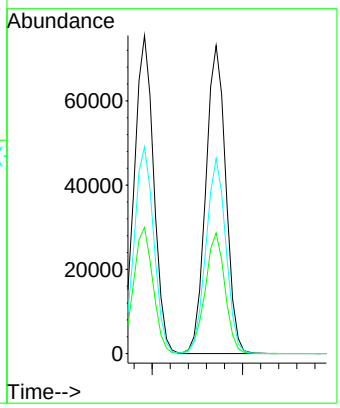
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

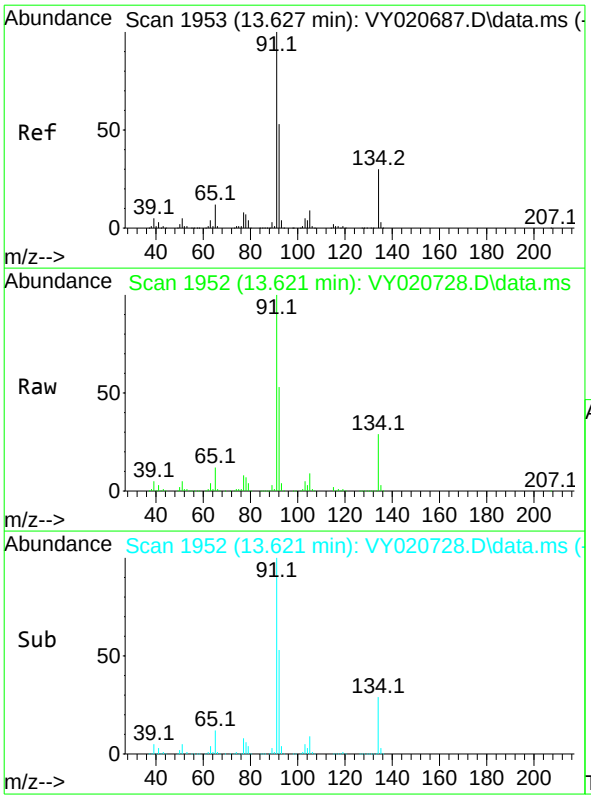



#88
1,4-Dichlorobenzene
Concen: 47.392 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:146 Resp: 112454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 19.7 | 59.0 |
| 148 | 63.3 | 32.8 | 98.3 |

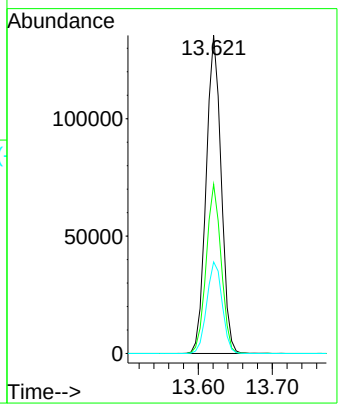





#89
n-Butylbenzene
Concen: 46.112 ug/l
RT: 13.621 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 91 Resp: 190714

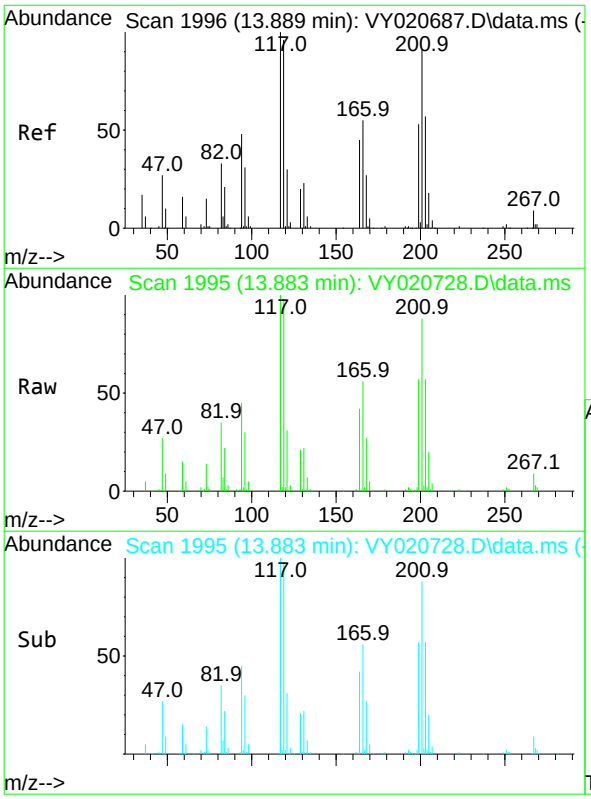
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.8 | 26.1 | 78.2 |
| 134 | 29.4 | 14.8 | 44.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

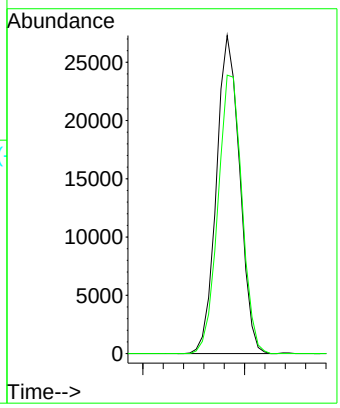
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

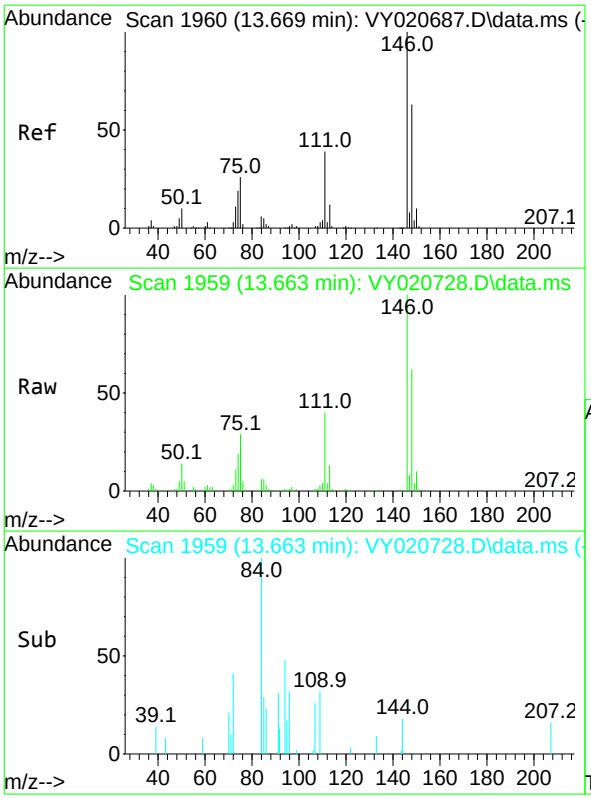



#90
Hexachloroethane
Concen: 46.011 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:117 Resp: 43349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 90.2 | 44.9 | 134.7 |

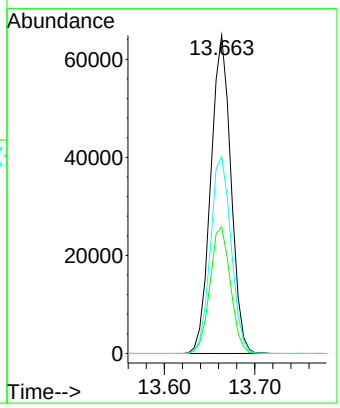





#91
1,2-Dichlorobenzene
Concen: 49.115 ug/l
RT: 13.663 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:146 Resp: 100450

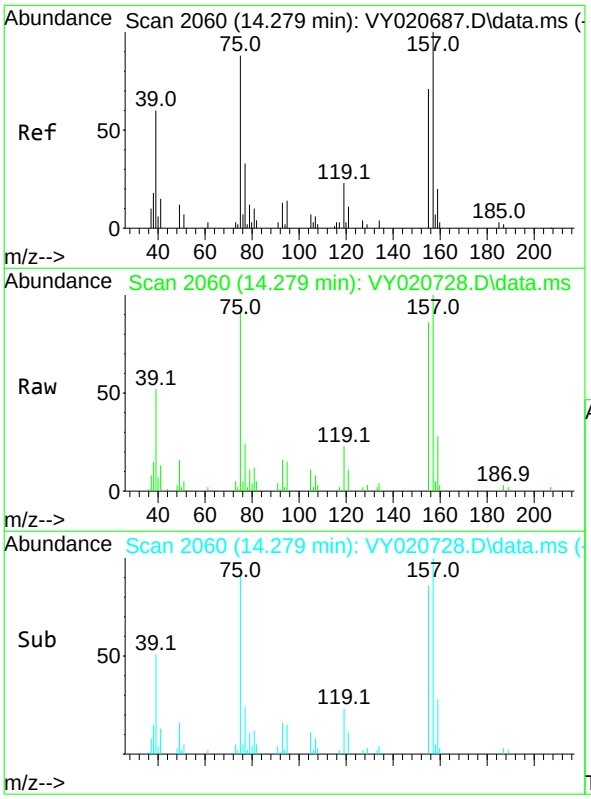
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.4 | 20.3 | 60.8 |
| 148 | 63.5 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

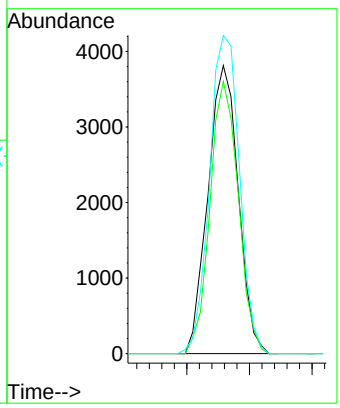
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

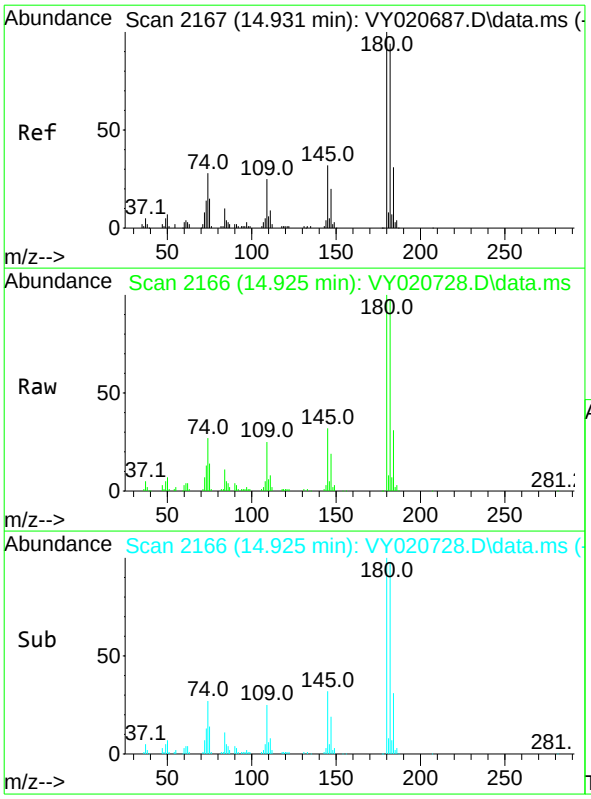



#92
1,2-Dibromo-3-Chloropropane
Concen: 48.649 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 75 Resp: 6413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.1 | 43.4 | 130.2 |
| 157 | 109.1 | 58.6 | 175.7 |

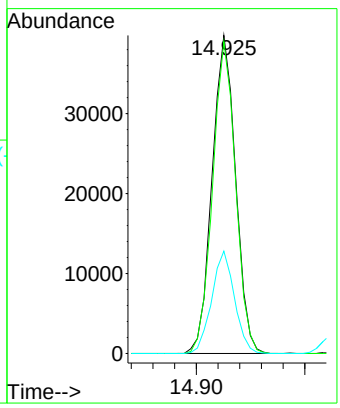





#93
1,2,4-Trichlorobenzene
Concen: 45.993 ug/l
RT: 14.925 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:180 Resp: 59790

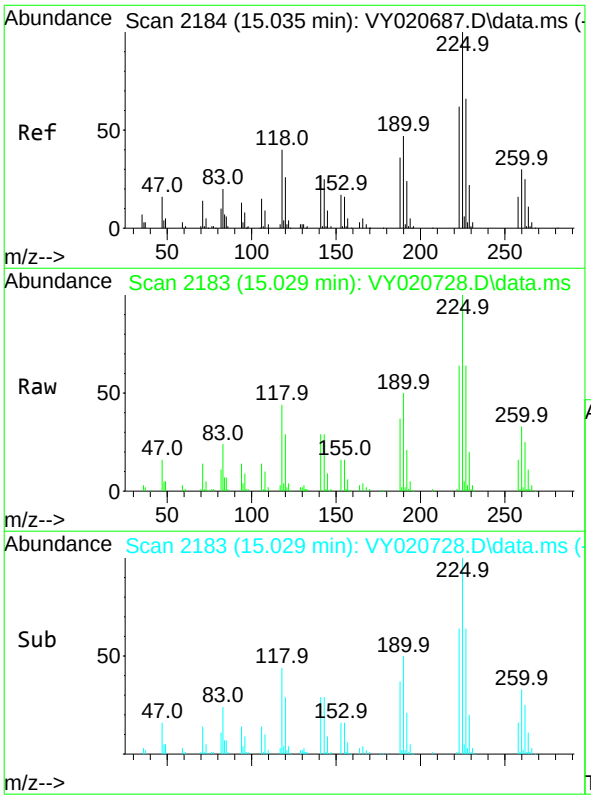
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 47.9 | 143.7 |
| 145 | 31.2 | 15.6 | 46.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

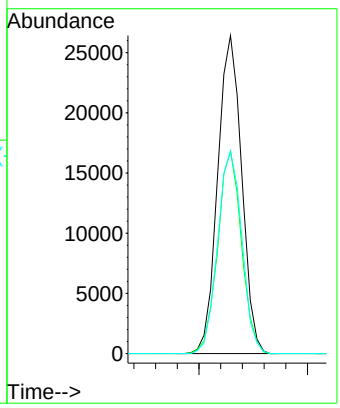
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

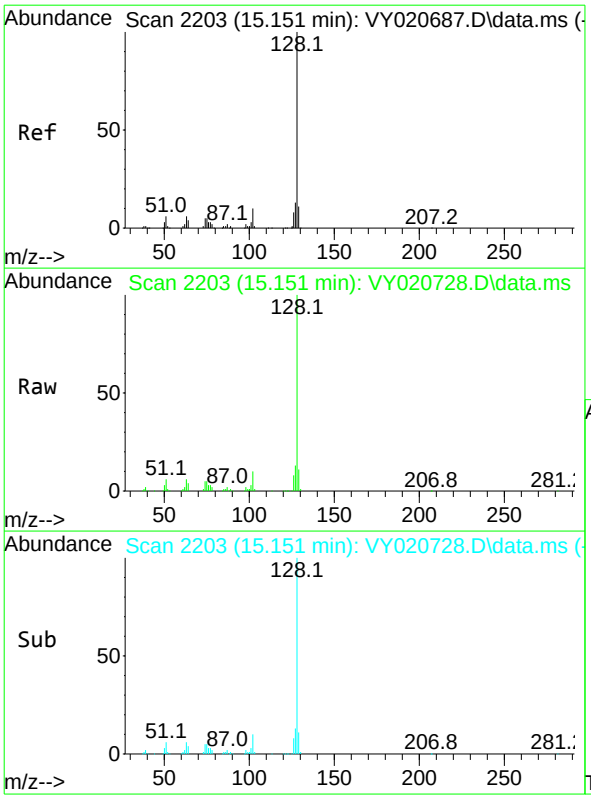



#94
Hexachlorobutadiene
Concen: 42.822 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:225 Resp: 40572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 31.3 | 93.8 |
| 227 | 64.1 | 32.1 | 96.5 |

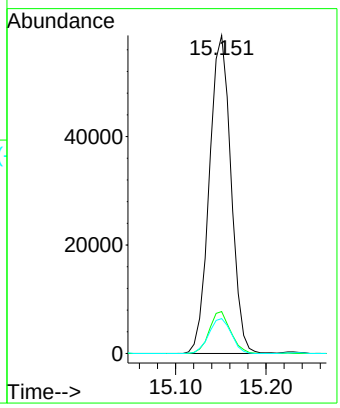





#95
Naphthalene
Concen: 46.789 ug/l
RT: 15.151 min Scan# 22
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:128 Resp: 97419

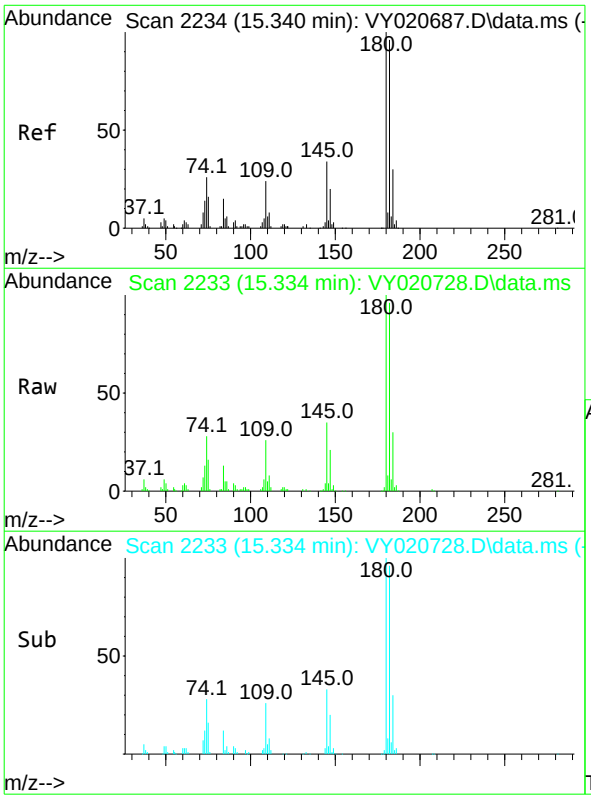
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.7 | 16.1 |
| 129 | 11.3 | 8.6 | 12.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

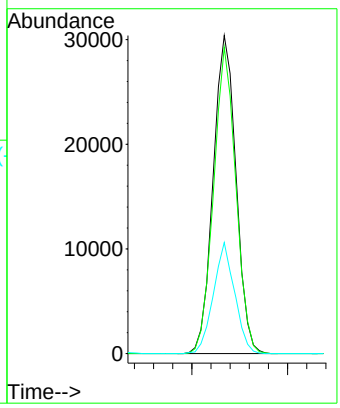
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024




#96
1,2,3-Trichlorobenzene
Concen: 46.500 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:180 Resp: 50331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 47.4 | 142.2 |
| 145 | 32.6 | 16.7 | 50.1 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 1.000 | 1.000 | 0.0 | 124 | -0.01 |
| 2 | T | Dichlorodifluoromethane | 0.394 | 0.355 | 9.9 | 109 | 0.00 |
| 3 | P | Chloromethane | 0.147 | 0.155 | -5.4 | 122 | 0.00 |
| 4 | C | Vinyl Chloride | 0.182 | 0.179 | 1.6# | 115 | 0.00 |
| 5 | T | Bromomethane | 0.137 | 0.140 | -2.2 | 123 | 0.00 |
| 6 | T | Chloroethane | 0.109 | 0.111 | -1.8 | 122 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.699 | 0.615 | 12.0 | 107 | -0.01 |
| 8 | T | Diethyl Ether | 0.166 | 0.181 | -9.0 | 126 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.384 | 0.366 | 4.7 | 116 | -0.01 |
| 10 | T | Methyl Iodide | 0.420 | 0.435 | -3.6 | 119 | -0.01 |
| 11 | T | Tert butyl alcohol | 0.031 | 0.027 | 12.9 | 120 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.342 | 0.342 | 0.0 | 120 | -0.01 |
| 13 | T | Acrolein | 0.009 | 0.005 | 44.4# | 107 | -0.01 |
| 14 | T | Allyl chloride | 0.400 | 0.428 | -7.0 | 128 | -0.02 |
| 15 | T | Acrylonitrile | 0.064 | 0.069 | -7.8 | 120 | 0.00 |
| 16 | T | Acetone | 0.052 | 0.049 | 5.8 | 112 | 0.00 |
| 17 | T | Carbon Disulfide | 0.838 | 0.878 | -4.8 | 120 | -0.01 |
| 18 | T | Methyl Acetate | 0.141 | 0.155 | -9.9 | 120 | -0.01 |
| 19 | T | Methyl tert-butyl Ether | 0.952 | 0.995 | -4.5 | 121 | -0.01 |
| 20 | T | Methylene Chloride | 0.338 | 0.368 | -8.9 | 133 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.368 | 0.389 | -5.7 | 123 | -0.02 |
| 22 | T | Diisopropyl ether | 0.813 | 0.914 | -12.4 | 132 | -0.01 |
| 23 | T | Vinyl Acetate | 0.486 | 0.530 | -9.1 | 122 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 0.609 | 0.649 | -6.6 | 130 | 0.00 |
| 25 | T | 2-Butanone | 0.070 | 0.077 | -10.0 | 120 | -0.01 |
| 26 | T | 2,2-Dichloropropane | 0.746 | 0.701 | 6.0 | 116 | -0.01 |
| 27 | T | cis-1,2-Dichloroethene | 0.441 | 0.465 | -5.4 | 125 | -0.01 |
| 28 | T | Bromochloromethane | 0.161 | 0.201 | -24.8 | 129 | -0.01 |
| 29 | T | Tetrahydrofuran | 0.043 | 0.048 | -11.6 | 122 | -0.01 |
| 30 | C | Chloroform | 0.784 | 0.803 | -2.4# | 126 | 0.00 |
| 31 | T | Cyclohexane | 0.526 | 0.478 | 9.1 | 116 | -0.01 |
| 32 | T | 1,1,1-Trichloroethane | 0.840 | 0.815 | 3.0 | 117 | -0.01 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.410 | 0.485 | -18.3 | 116 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 128 | -0.01 |
| 35 | S | Dibromofluoromethane | 0.275 | 0.305 | -10.9 | 122 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.364 | 0.348 | 4.4 | 119 | -0.01 |
| 37 | T | Ethyl Acetate | 0.120 | 0.127 | -5.8 | 121 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.599 | 0.538 | 10.2 | 112 | -0.01 |
| 39 | T | Methylcyclohexane | 0.466 | 0.430 | 7.7 | 113 | 0.00 |
| 40 | TM | Benzene | 1.054 | 1.074 | -1.9 | 126 | 0.00 |
| 41 | T | Methacrylonitrile | 0.061 | 0.072 | -18.0 | 166# | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.338 | 0.338 | 0.0 | 119 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.255 | 0.267 | -4.7 | 119 | 0.00 |
| 44 | TM | Trichloroethene | 0.315 | 0.307 | 2.5 | 121 | -0.01 |
| 45 | C | 1,2-Dichloropropane | 0.213 | 0.224 | -5.2# | 127 | 0.00 |
| 46 | T | Dibromomethane | 0.148 | 0.150 | -1.4 | 120 | 0.00 |
| 47 | T | Bromodichloromethane | 0.419 | 0.416 | 0.7 | 123 | 0.00 |
| 48 | T | Methyl methacrylate | 0.119 | 0.118 | 0.8 | 115 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 0.001 | 0.002 | -100.0# | 121 | 0.00 |
| 50 | S | Toluene-d8 | 0.971 | 1.170 | -20.5 | 122 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.123 | 0.129 | -4.9 | 118 | 0.00 |
| 52 | CM | Toluene | 0.723 | 0.732 | -1.2# | 126 | -0.01 |
| 53 | T | t-1,3-Dichloropropene | 0.368 | 0.367 | 0.3 | 117 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.403 | 0.409 | -1.5 | 122 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.188 | 0.193 | -2.7 | 124 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.248 | 0.257 | -3.6 | 119 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.306 | 0.313 | -2.3 | 120 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.086 | 0.104 | -20.9 | 131 | 0.00 |
| 59 | T | 2-Hexanone | 0.081 | 0.088 | -8.6 | 118 | 0.00 |
| 60 | T | Dibromochloromethane | 0.305 | 0.299 | 2.0 | 121 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.177 | 0.175 | 1.1 | 118 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.366 | 0.411 | -12.3 | 123 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 127 | 0.00 |
| 64 | T | Tetrachloroethene | 0.342 | 0.319 | 6.7 | 116 | 0.00 |
| 65 | PM | Chlorobenzene | 0.979 | 0.970 | 0.9 | 123 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.379 | 0.370 | 2.4 | 121 | 0.00 |
| 67 | C | Ethyl Benzene | 1.711 | 1.696 | 0.9# | 121 | 0.00 |
| 68 | T | m/p-Xylenes | 0.653 | 0.644 | 1.4 | 121 | 0.00 |
| 69 | T | o-Xylene | 0.624 | 0.616 | 1.3 | 121 | 0.00 |
| 70 | T | Styrene | 1.047 | 1.055 | -0.8 | 123 | 0.00 |
| 71 | P | Bromoform | 0.218 | 0.216 | 0.9 | 114 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 127 | 0.00 |
| 73 | T | Isopropylbenzene | 3.464 | 3.262 | 5.8 | 119 | 0.00 |
| 74 | T | N-amyl acetate | 0.492 | 0.513 | -4.3 | 119 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 0.444 | 0.440 | 0.9 | 117 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 0.318 | 0.377 | -18.6 | 159# | 0.00 |
| 77 | T | Bromobenzene | 0.797 | 0.774 | 2.9 | 120 | 0.00 |
| 78 | T | n-propylbenzene | 3.883 | 3.687 | 5.0 | 120 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.213 | 2.130 | 3.8 | 120 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 2.886 | 2.771 | 4.0 | 119 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.161 | 0.158 | 1.9 | 114 | 0.00 |
| 82 | T | 4-Chlorotoluene | 2.287 | 2.192 | 4.2 | 119 | 0.00 |
| 83 | T | tert-Butylbenzene | 2.695 | 2.503 | 7.1 | 116 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 2.809 | 2.733 | 2.7 | 120 | 0.00 |
| 85 | T | sec-Butylbenzene | 3.633 | 3.391 | 6.7 | 117 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.237 | 3.029 | 6.4 | 117 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.559 | 1.481 | 5.0 | 119 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.550 | 1.470 | 5.2 | 119 | 0.00 |
| 89 | T | n-Butylbenzene | 2.702 | 2.492 | 7.8 | 115 | 0.00 |
| 90 | T | Hexachloroethane | 0.616 | 0.566 | 8.1 | 117 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.336 | 1.313 | 1.7 | 118 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.086 | 0.084 | 2.3 | 108 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 0.849 | 0.781 | 8.0 | 110 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.619 | 0.530 | 14.4 | 108 | 0.00 |
| 95 | T | Naphthalene | 1.360 | 1.273 | 6.4 | 106 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | AvgRF | CCRF | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 0.707 | 0.658 | 6.9 | 108 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 5

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 1 | I | Pentafluorobenzene | 50.000 | 50.000 | 0.0 | 124 | -0.01 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 45.114 | 9.8 | 109 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 52.737 | -5.5 | 122 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 49.224 | 1.6# | 115 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 50.944 | -1.9 | 123 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 50.896 | -1.8 | 122 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 44.000 | 12.0 | 107 | -0.01 |
| 8 | T | Diethyl Ether | 50.000 | 54.301 | -8.6 | 126 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 47.637 | 4.7 | 116 | -0.01 |
| 10 | T | Methyl Iodide | 50.000 | 51.852 | -3.7 | 119 | -0.01 |
| 11 | T | Tert butyl alcohol | 250.000 | 266.739 | -6.7 | 120 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 50.083 | -0.2# | 120 | -0.01 |
| 13 | T | Acrolein | 250.000 | 160.414 | 35.8# | 107 | -0.01 |
| 14 | T | Allyl chloride | 50.000 | 53.553 | -7.1 | 128 | -0.02 |
| 15 | T | Acrylonitrile | 250.000 | 267.470 | -7.0 | 120 | 0.00 |
| 16 | T | Acetone | 250.000 | 236.085 | 5.6 | 112 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 52.366 | -4.7 | 120 | -0.01 |
| 18 | T | Methyl Acetate | 50.000 | 54.975 | -10.0 | 120 | -0.01 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 52.242 | -4.5 | 121 | -0.01 |
| 20 | T | Methylene Chloride | 50.000 | 54.496 | -9.0 | 133 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 52.798 | -5.6 | 123 | -0.02 |
| 22 | T | Diisopropyl ether | 50.000 | 56.213 | -12.4 | 132 | -0.01 |
| 23 | T | Vinyl Acetate | 250.000 | 272.779 | -9.1 | 122 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 53.204 | -6.4 | 130 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 274.081 | -9.6 | 120 | -0.01 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 47.004 | 6.0 | 116 | -0.01 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 52.764 | -5.5 | 125 | -0.01 |
| 28 | T | Bromochloromethane | 50.000 | 62.291 | -24.6 | 129 | -0.01 |
| 29 | T | Tetrahydrofuran | 250.000 | 278.632 | -11.5 | 122 | -0.01 |
| 30 | C | Chloroform | 50.000 | 51.215 | -2.4# | 126 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 45.467 | 9.1 | 116 | -0.01 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.508 | 3.0 | 117 | -0.01 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 59.186 | -18.4 | 116 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 128 | -0.01 |
| 35 | S | Dibromofluoromethane | 50.000 | 55.390 | -10.8 | 122 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 47.847 | 4.3 | 119 | -0.01 |
| 37 | T | Ethyl Acetate | 50.000 | 52.779 | -5.6 | 121 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 44.945 | 10.1 | 112 | -0.01 |
| 39 | T | Methylcyclohexane | 50.000 | 46.082 | 7.8 | 113 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.952 | -1.9 | 126 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 59.754 | -19.5 | 166 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 49.961 | 0.1 | 119 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 52.327 | -4.7 | 119 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 48.797 | 2.4 | 121 | -0.01 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 52.575 | -5.2# | 127 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 50.665 | -1.3 | 120 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 49.700 | 0.6 | 123 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 49.466 | 1.1 | 115 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|---|
| 49 | T | 1,4-Dioxane | 1000.000 | 1130.206 | -13.0 | 121 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 53.305 | -6.6 | 122 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 262.443 | -5.0 | 118 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.676 | -1.4# | 126 | -0.01 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 49.943 | 0.1 | 117 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 50.773 | -1.5 | 122 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.326 | -2.7 | 124 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 51.971 | -3.9 | 119 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 51.138 | -2.3 | 120 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 300.757 | -20.3 | 131 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 272.444 | -9.0 | 118 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 49.038 | 1.9 | 121 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 49.418 | 1.2 | 118 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 56.112 | -12.2 | 123 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 127 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 46.676 | 6.6 | 116 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.537 | 0.9 | 123 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 48.804 | 2.4 | 121 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 49.546 | 0.9# | 121 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 98.695 | 1.3 | 121 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 49.380 | 1.2 | 121 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.397 | -0.8 | 123 | 0.00 |
| 71 | P | Bromoform | 50.000 | 49.586 | 0.8 | 114 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 127 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 47.089 | 5.8 | 119 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 52.059 | -4.1 | 119 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.563 | 0.9 | 117 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 59.202 | -18.4 | 159 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 48.546 | 2.9 | 120 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 47.482 | 5.0 | 120 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 48.116 | 3.8 | 120 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 48.002 | 4.0 | 119 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.030 | 1.9 | 114 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 47.924 | 4.2 | 119 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 46.437 | 7.1 | 116 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 48.661 | 2.7 | 120 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 46.679 | 6.6 | 117 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 46.789 | 6.4 | 117 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 47.503 | 5.0 | 119 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 47.392 | 5.2 | 119 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 46.112 | 7.8 | 115 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 46.011 | 8.0 | 117 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.115 | 1.8 | 118 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 48.649 | 2.7 | 108 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 45.993 | 8.0 | 110 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 42.822 | 14.4 | 108 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 46.789 | 6.4 | 106 | 0.00 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**LabSampleId :**
VSTDCCC050

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 25% Max. Rel. Area : 150%

| | Compound | Amount | Calc. | %Dev | Area% | Dev(min) |
|---|---|---|---|---|---|---|
| 96 T | 1,2,3-Trichlorobenzene | 50.000 | 46.500 | 7.0 | 108 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

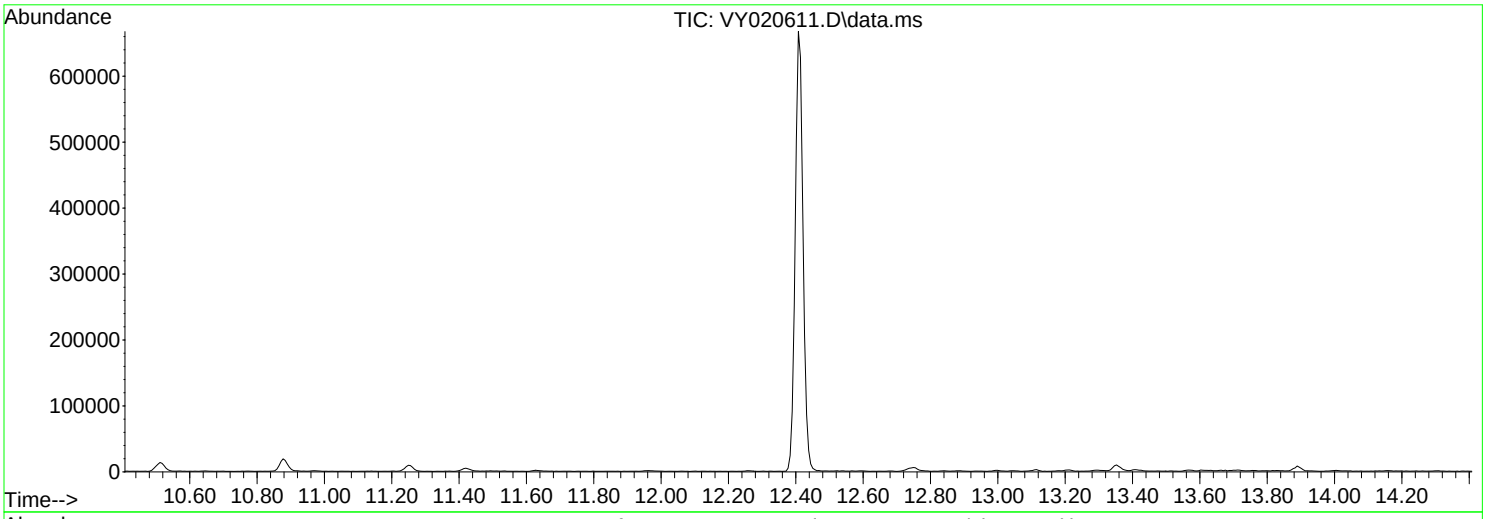
# QC SAMPLE DATA

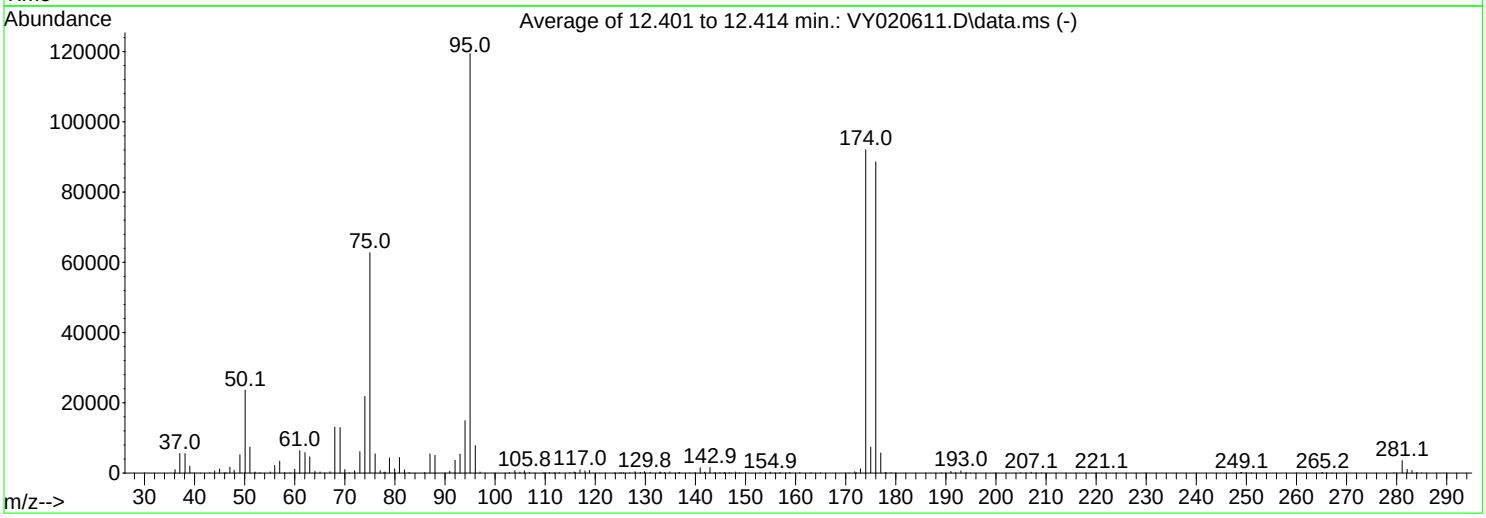
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020611.D
Acq On : 17 Dec 2024 09:00
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024




AutoFind: Scans 1752, 1753, 1754; Background Corrected with Scan 1744

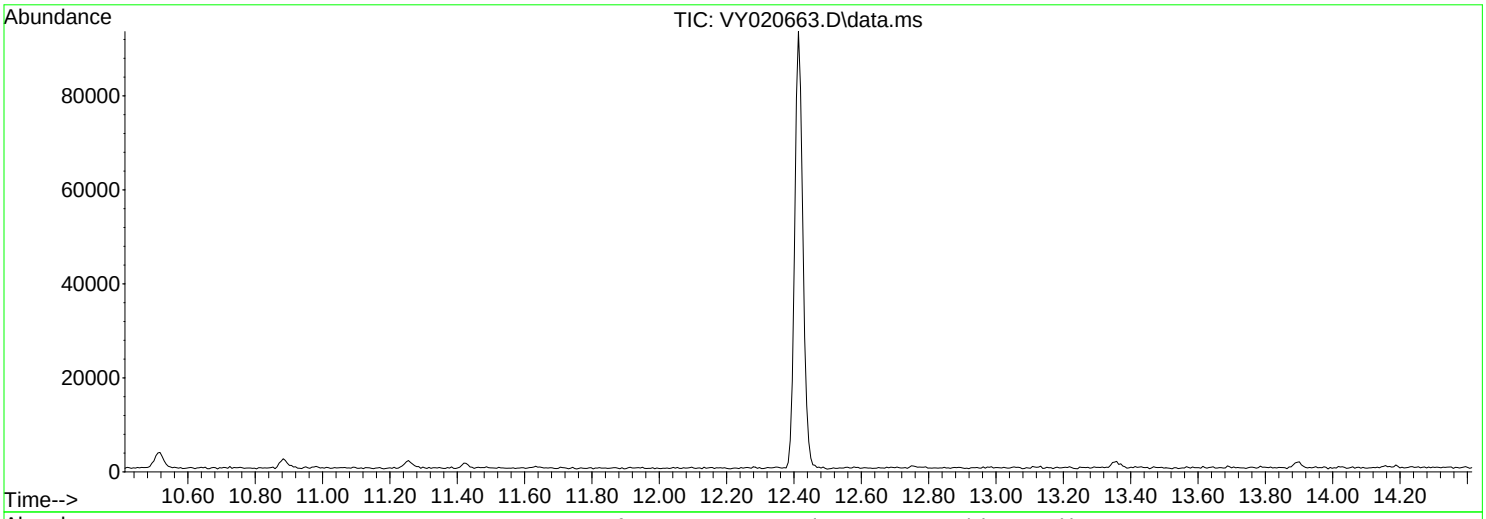
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.8 | 23624 | PASS |
| 75 | 95 | 30 | 60 | 52.6 | 62757 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 119384 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 7799 | PASS |
| 173 | 174 | 0.00 | 2 | 1.3 | 1208 | PASS |
| 174 | 95 | 50 | 100 | 77.1 | 92040 | PASS |
| 175 | 174 | 5 | 9 | 8.0 | 7407 | PASS |
| 176 | 174 | 95 | 101 | 96.3 | 88608 | PASS |
| 177 | 176 | 5 | 9 | 6.5 | 5728 | PASS |

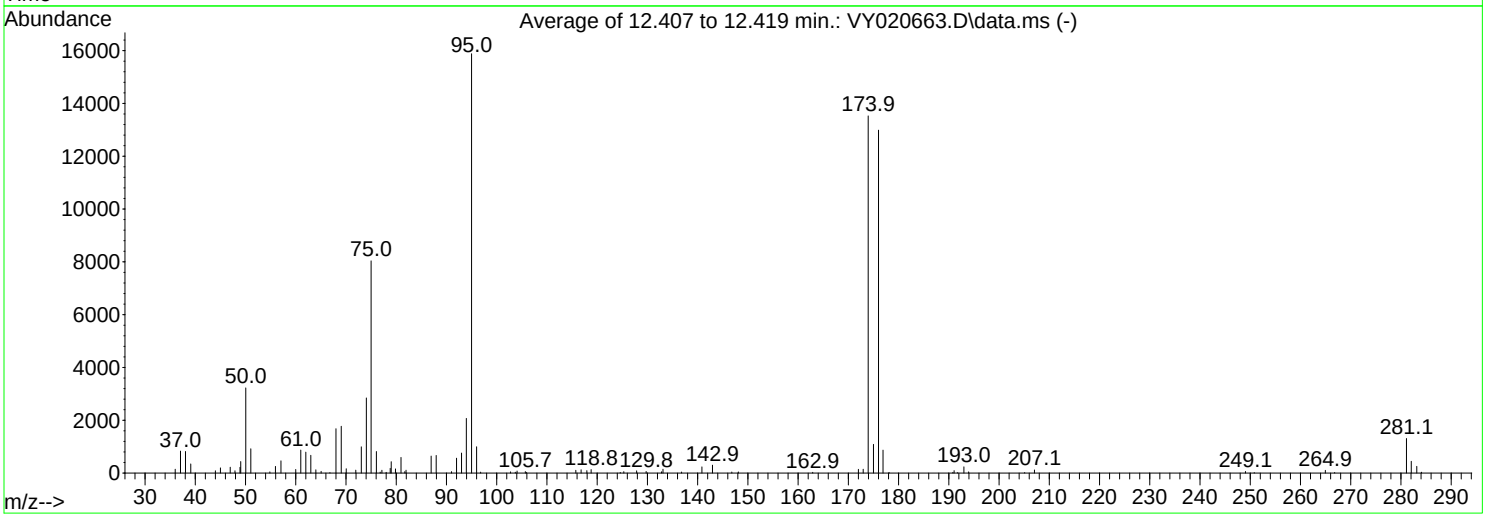
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020663.D
Acq On : 20 Dec 2024 08:37
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260
Last Update : Wed Dec 18 05:27:13 2024




AutoFind: Scans 1753, 1754, 1755; Background Corrected with Scan 1746

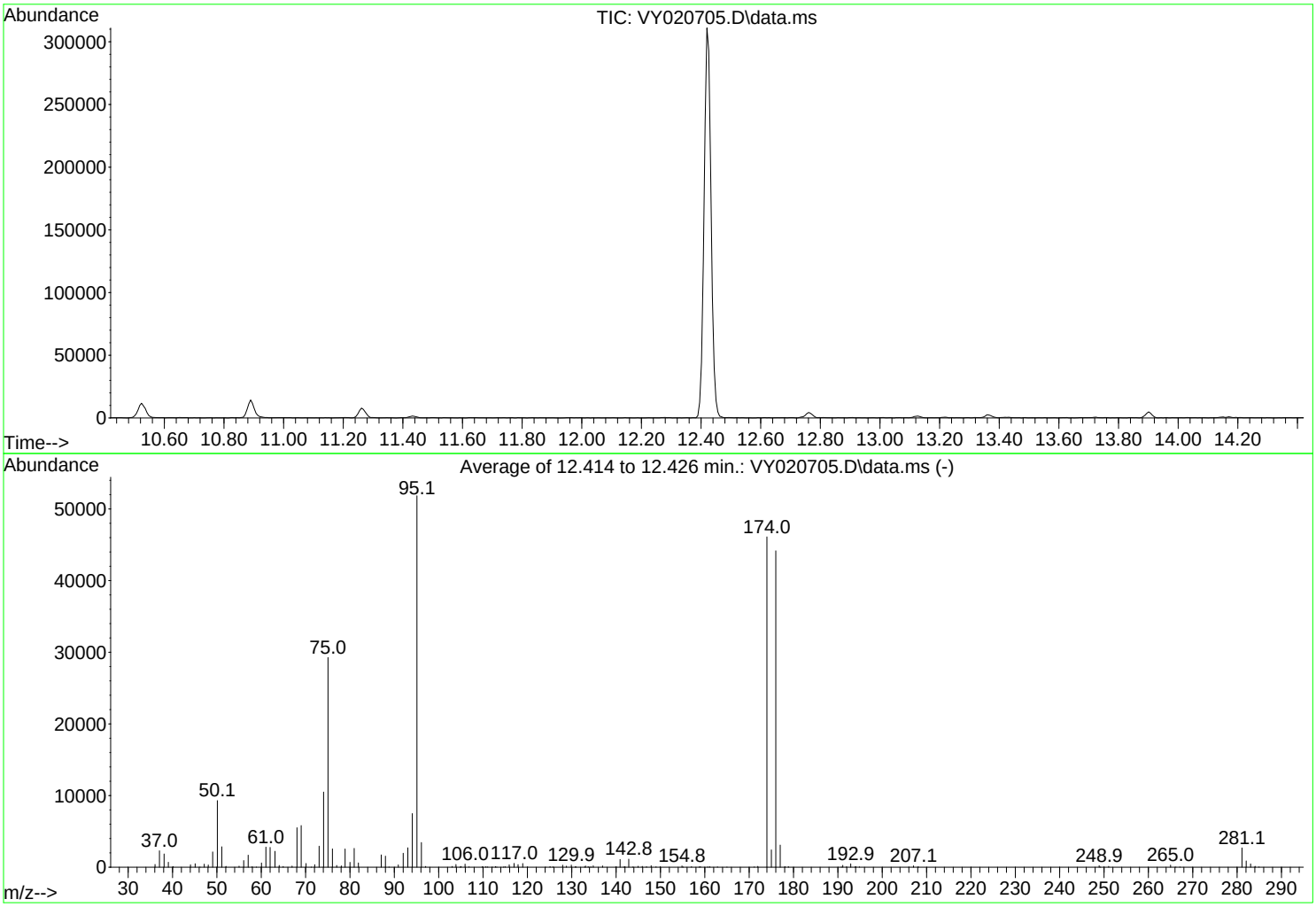
| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 20.3 | 3225 | PASS |
| 75 | 95 | 30 | 60 | 50.6 | 8037 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 15882 | PASS |
| 96 | 95 | 5 | 9 | 6.3 | 996 | PASS |
| 173 | 174 | 0.00 | 2 | 1.1 | 146 | PASS |
| 174 | 95 | 50 | 100 | 85.2 | 13528 | PASS |
| 175 | 174 | 5 | 9 | 8.0 | 1087 | PASS |
| 176 | 174 | 95 | 101 | 96.0 | 12988 | PASS |
| 177 | 176 | 5 | 9 | 6.7 | 869 | PASS |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020705.D
Acq On : 26 Dec 2024 08:29
Operator : SY/MD
Sample : BFB
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Title : SW846 8260
Last Update : Thu Dec 26 16:12:28 2024




AutoFind: Scans 1754, 1755, 1756; Background Corrected with Scan 1747

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 17.9 | 9300 | PASS |
| 75 | 95 | 30 | 60 | 56.5 | 29264 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 51840 | PASS |
| 96 | 95 | 5 | 9 | 6.7 | 3450 | PASS |
| 173 | 174 | 0.00 | 2 | 0.0 | 0 | PASS |
| 174 | 95 | 50 | 100 | 88.9 | 46104 | PASS |
| 175 | 174 | 5 | 9 | 5.3 | 2423 | PASS |
| 176 | 174 | 95 | 101 | 95.8 | 44160 | PASS |
| 177 | 176 | 5 | 9 | 7.0 | 3092 | PASS |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | VY1220SBL01 | SDG No.: | P5316 |
| Lab Sample ID: | VY1220SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020665.D | 1 | | 12/20/24 11:24 | VY122024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-01-4 | Vinyl Chloride | 2.50 | U | 0.77 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 20.0 | U | 6.20 | 20.0 | 25.0 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.00 | U | 3.40 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.50 | U | 0.84 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.50 | U | 0.63 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 20.0 | U | 5.70 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.50 | U | 0.87 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.50 | U | 0.61 | 2.50 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 4.00 | U | 0.67 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 2.50 | U | 0.72 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.50 | U | 0.61 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.50 | U | 0.89 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.50 | U | 0.74 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.50 | U | 0.62 | 2.50 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 7.50 | U | 2.10 | 7.50 | 15.0 | ug/Kg |
| 103-65-1 | n-propylbenzene | 2.50 | U | 0.64 | 2.50 | 5.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.50 | U | 1.40 | 2.50 | 5.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 0.74 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | U | 0.80 | 2.50 | 5.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 2.50 | U | 0.63 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.50 | U | 0.59 | 2.50 | 5.00 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 80.0 | U | 42.5 | 80.0 | 100 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.1 | | 71 - 136 | | 98% | SPK: 50 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | VY1220SBL01 | SDG No.: | P5316 |
| Lab Sample ID: | VY1220SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020665.D | 1 | | 12/20/24 11:24 | VY122024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 50.7 | | 78 - 119 | | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 49.8 | | 85 - 116 | | 100% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.5 | | 79 - 119 | | 89% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 159000 | 7.707 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 246000 | 8.616 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 208000 | 11.414 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 110000 | 13.347 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBL01

Quant Time: Dec 20 18:08:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

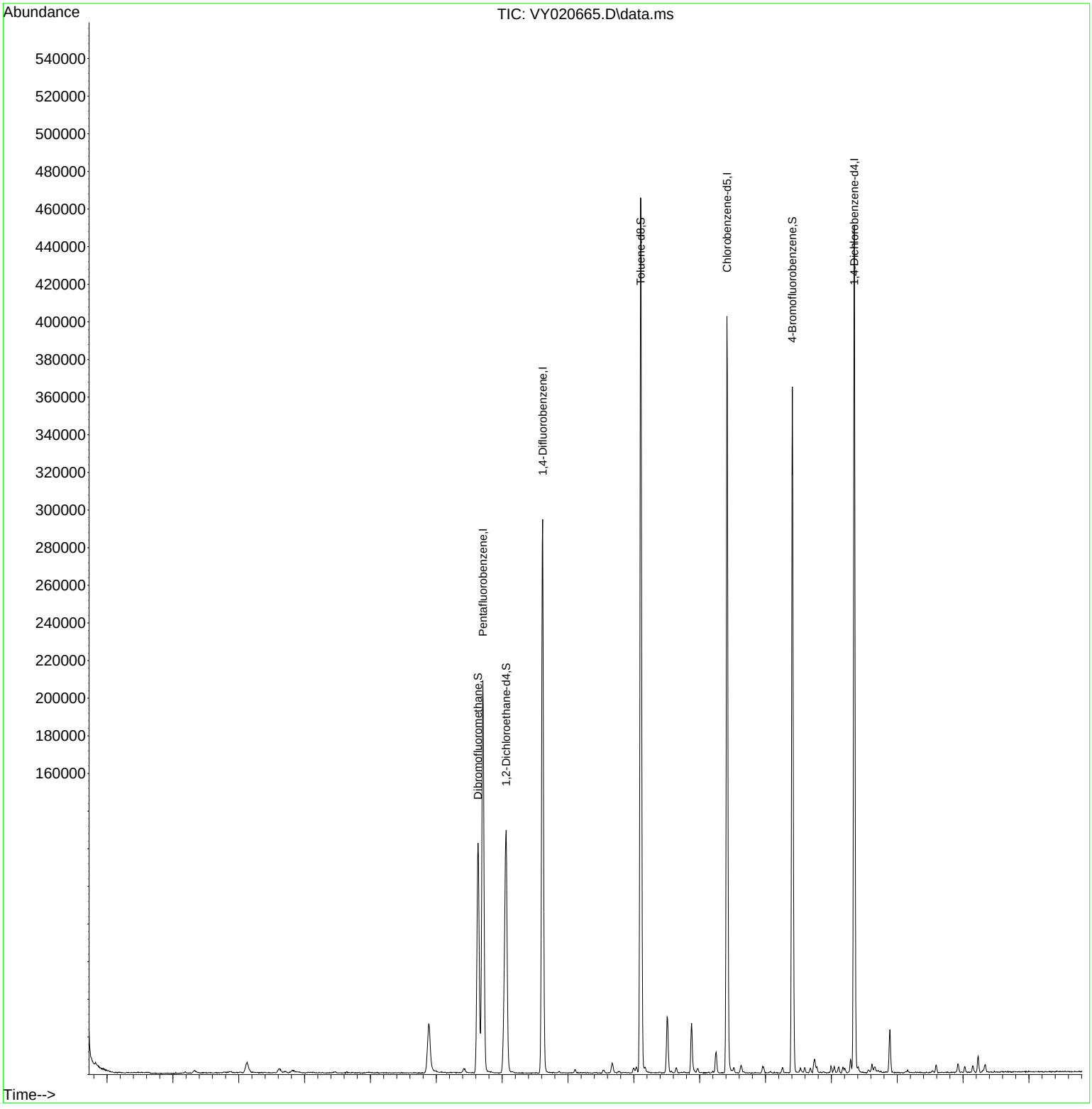
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 159056 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 246351 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 208495 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 109647 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 85448 | 49.052 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.100% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 88079 | 50.730 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 101.460% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 302895 | 49.843 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 99.680% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 105889 | 44.544 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 89.080% | | | |
| Target Compounds | | | | | | Qvalue |

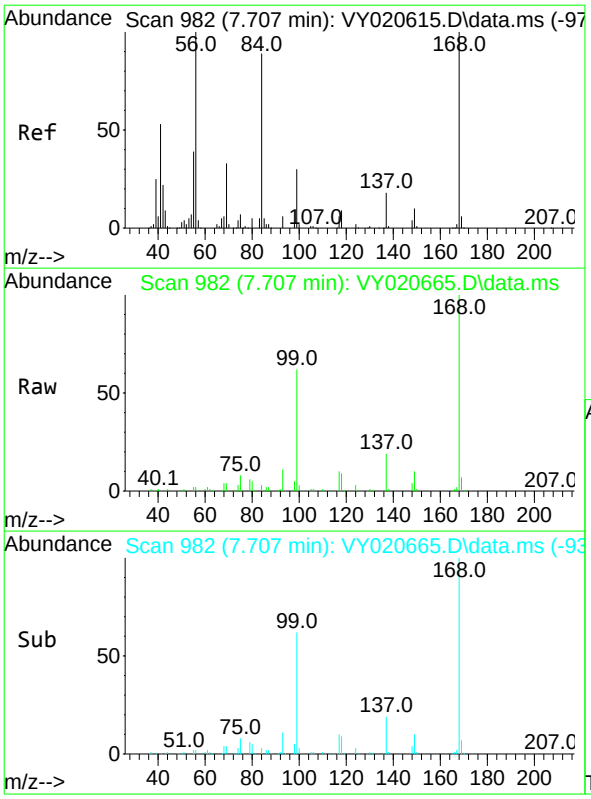
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBL01

Quant Time: Dec 20 18:08:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



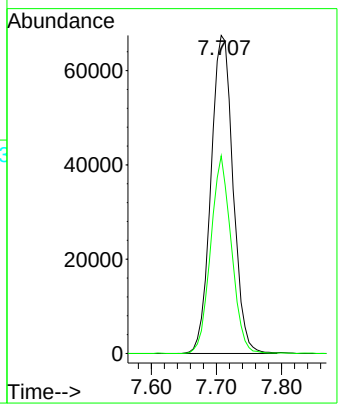


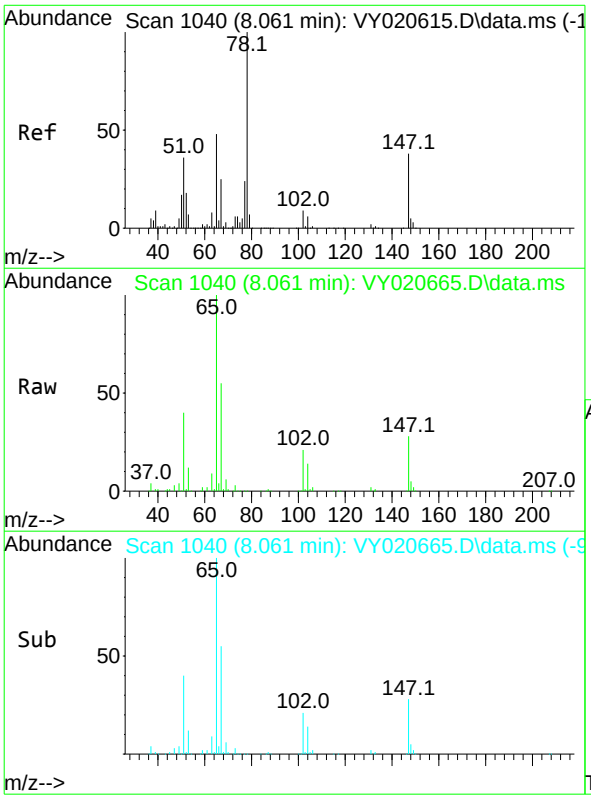

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBL01

Tgt Ion:168 Resp: 159056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.1 | 47.0 | 70.6 |

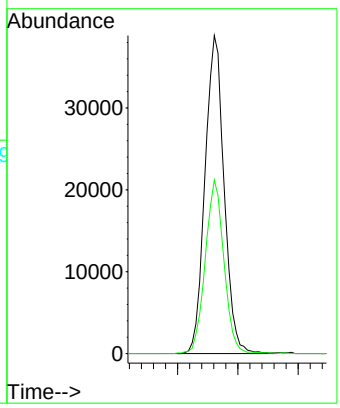


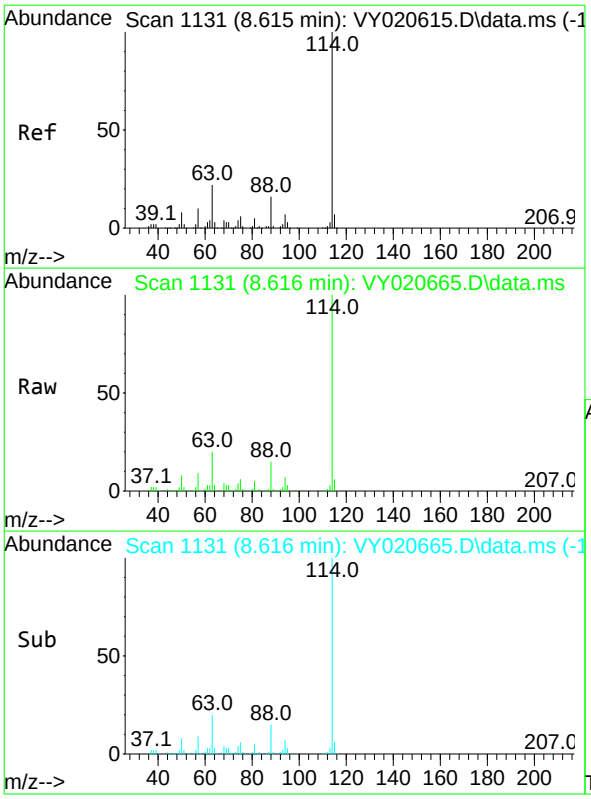




#33
1,2-Dichloroethane-d4
Concen: 49.052 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Tgt Ion: 65 Resp: 85448

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.5 | 0.0 | 108.0 |



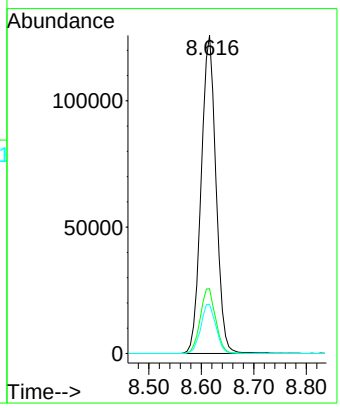


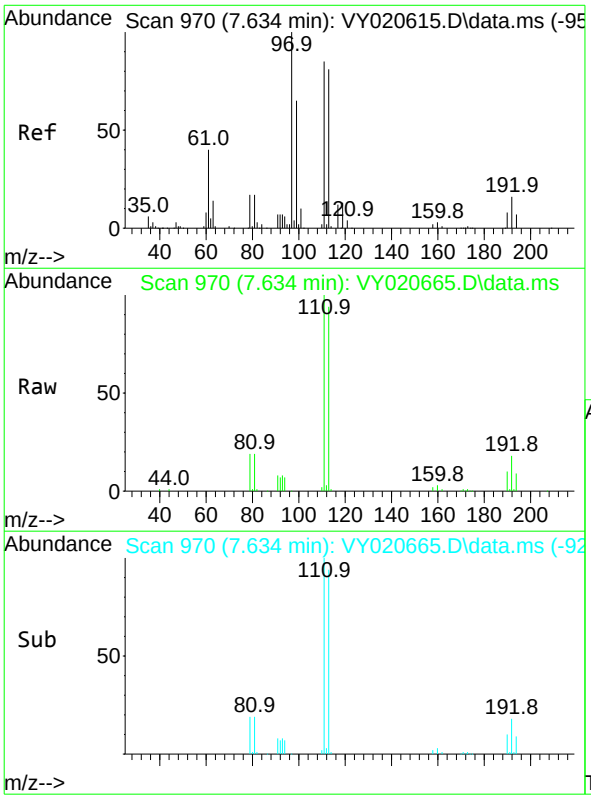

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBL01

Tgt Ion:114 Resp: 246351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 44.0 |
| 88 | 15.5 | 0.0 | 32.8 |

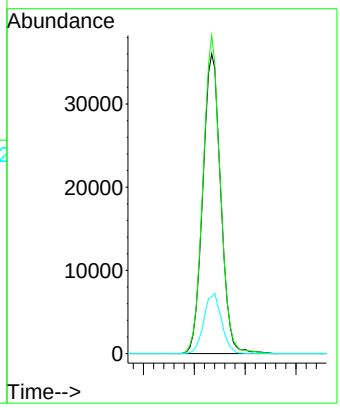


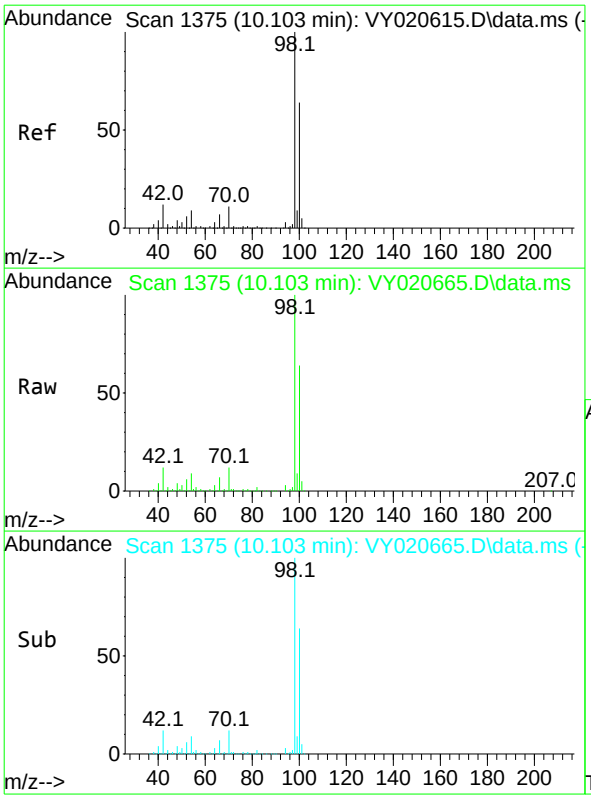




#35
Dibromofluoromethane
Concen: 50.730 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Tgt Ion:113 Resp: 88079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.7 | 82.9 | 124.3 |
| 192 | 19.9 | 15.7 | 23.5 |



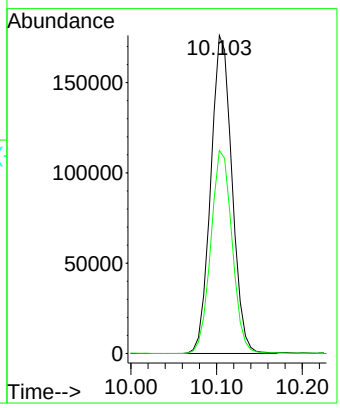


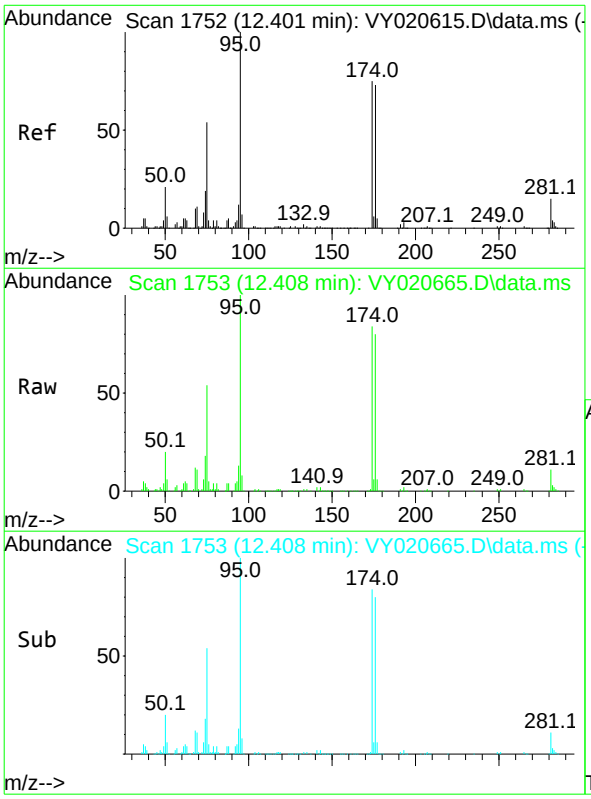

#50
Toluene-d8
Concen: 49.843 ug/l
RT: 10.103 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBL01

Tgt Ion: 98 Resp: 302895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 52.1 | 78.1 |

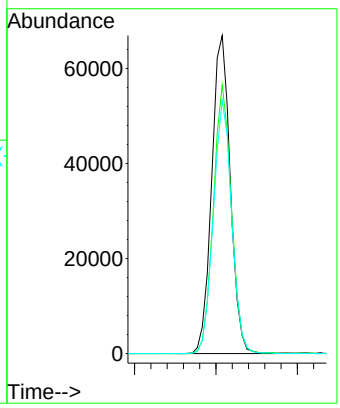


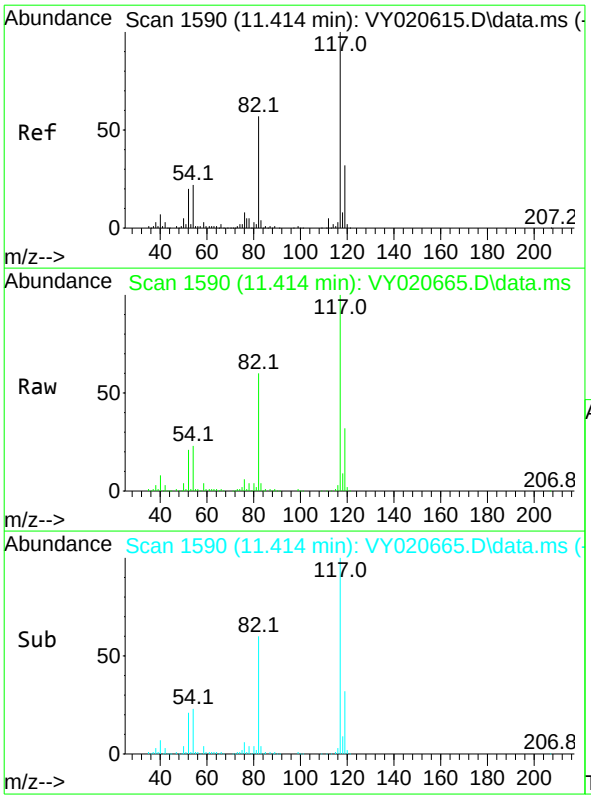




#62
4-Bromofluorobenzene
Concen: 44.544 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Tgt Ion: 95 Resp: 105889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 82.4 | 0.0 | 161.8 |
| 176 | 78.6 | 0.0 | 156.6 |



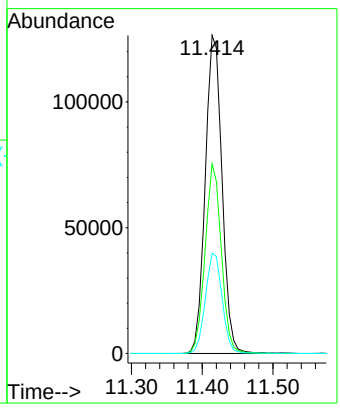


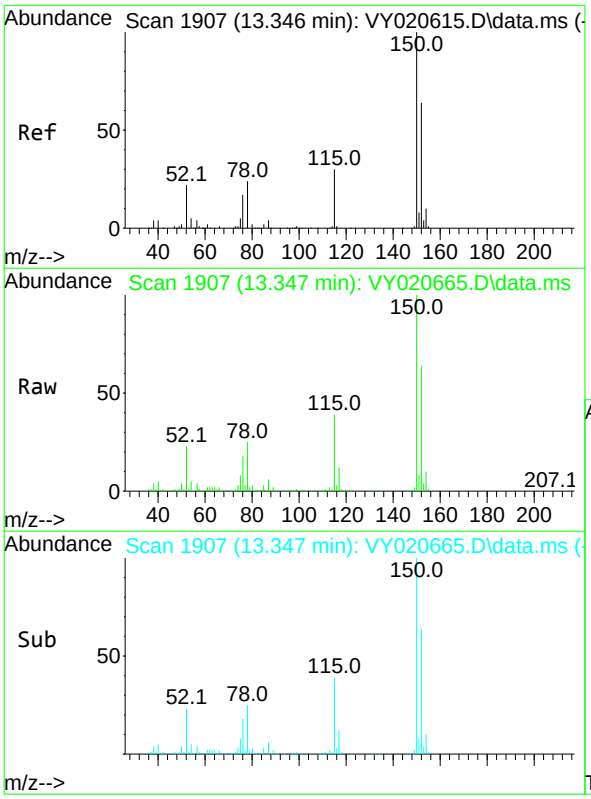

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBL01

Tgt Ion:117 Resp: 208495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.6 | 45.8 | 68.6 |
| 119 | 31.5 | 25.3 | 37.9 |

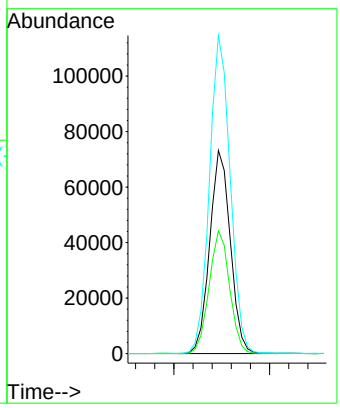



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020665.D
Acq: 20 Dec 2024 11:24

Tgt Ion:152 Resp: 109647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.0 | 30.2 | 90.6 |
| 150 | 158.3 | 0.0 | 355.4 |



LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Title : SW846 8260

Signal : TIC: VY020665.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.129 | 384 | 395 | 405 | rBV | 5709 | 18736 | 2.34% | 0.392% |
| 2 | 6.884 | 836 | 847 | 860 | rBV | 26192 | 83421 | 10.44% | 1.746% |
| 3 | 7.634 | 960 | 970 | 976 | rBV2 | 122221 | 297782 | 37.25% | 6.233% |
| 4 | 7.707 | 976 | 982 | 993 | rVB | 208053 | 472375 | 59.09% | 9.888% |
| 5 | 8.061 | 1026 | 1040 | 1051 | rBV2 | 129040 | 361255 | 45.19% | 7.562% |
| 6 | 8.616 | 1122 | 1131 | 1144 | rBV | 294341 | 581185 | 72.70% | 12.165% |
| 7 | 9.670 | 1298 | 1304 | 1311 | rBV3 | 5152 | 10160 | 1.27% | 0.213% |
| 8 | 10.103 | 1368 | 1375 | 1384 | rBV | 464581 | 799421 | 100.00% | 16.733% |
| 9 | 10.506 | 1433 | 1441 | 1449 | rBV | 29707 | 56650 | 7.09% | 1.186% |
| 10 | 10.877 | 1496 | 1502 | 1513 | rBV | 26481 | 47166 | 5.90% | 0.987% |
| 11 | 11.249 | 1558 | 1563 | 1572 | rVB2 | 11070 | 19501 | 2.44% | 0.408% |
| 12 | 11.414 | 1582 | 1590 | 1602 | rBV | 402164 | 656634 | 82.14% | 13.745% |
| 13 | 12.408 | 1746 | 1753 | 1764 | rBV2 | 364555 | 607939 | 76.05% | 12.725% |
| 14 | 12.743 | 1803 | 1808 | 1813 | rBV4 | 7191 | 16005 | 2.00% | 0.335% |
| 15 | 13.292 | 1890 | 1898 | 1901 | rBV4 | 7125 | 11289 | 1.41% | 0.236% |
| 16 | 13.347 | 1901 | 1907 | 1915 | rVV | 448403 | 678752 | 84.91% | 14.208% |
| 17 | 13.889 | 1989 | 1996 | 2001 | rBV2 | 22737 | 35935 | 4.50% | 0.752% |
| 18 | 14.919 | 2157 | 2165 | 2171 | rBV4 | 4857 | 9183 | 1.15% | 0.192% |
| 19 | 15.230 | 2210 | 2216 | 2221 | rBV2 | 8932 | 14001 | 1.75% | 0.293% |

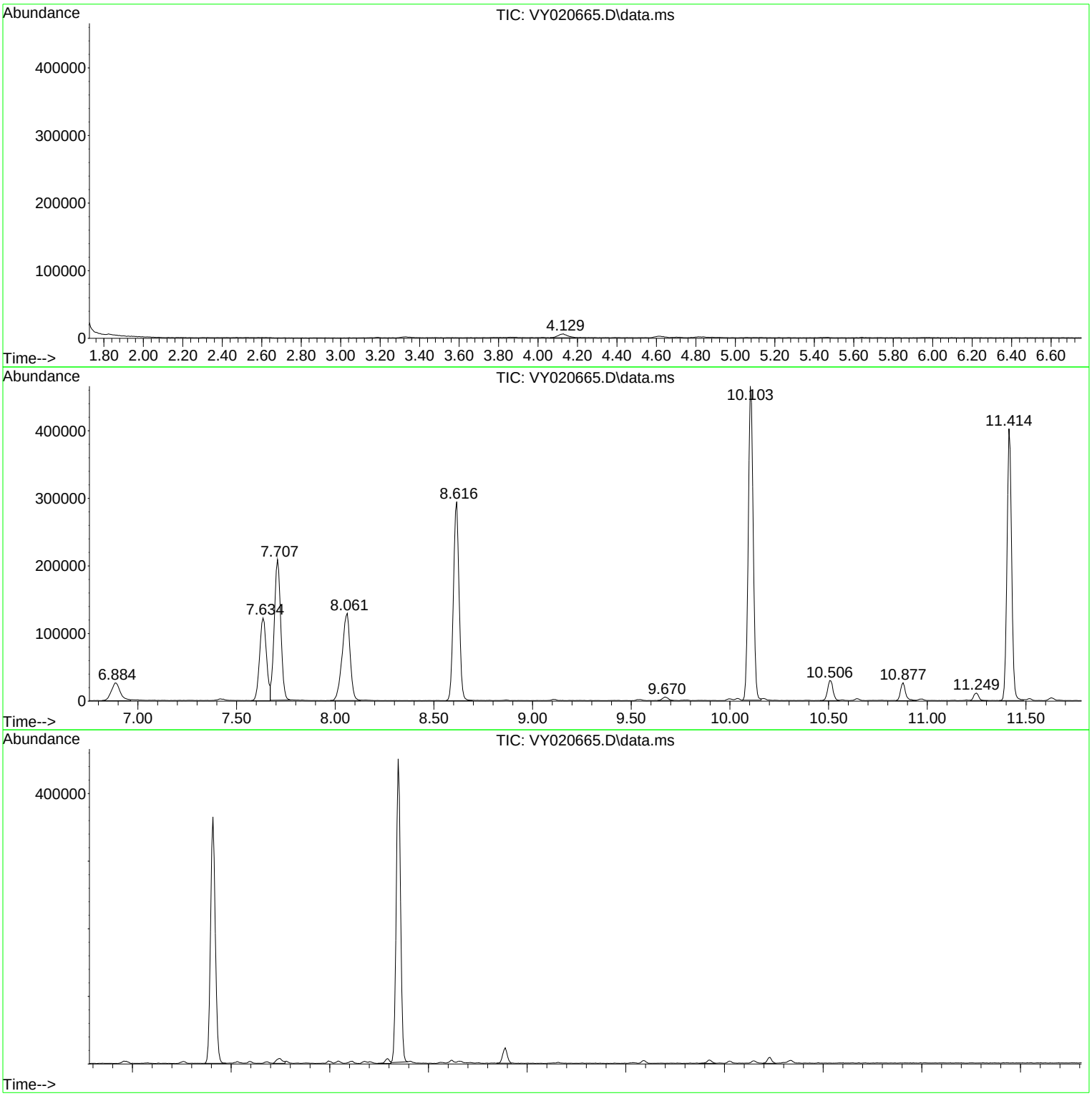
Sum of corrected areas: 4777390

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected

**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020665.D
Acq On : 20 Dec 2024 11:24
Operator : SY/MD
Sample : VY1220SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT | EstConc | Units | Response | Internal Standard # | Internal Standard RT | Internal Standard Resp | Internal Standard Conc |
|---|---|---|---|---|---|---|---|---|

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | VY1226SBL01 | SDG No.: | P5316 |
| Lab Sample ID: | VY1226SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020714.D | 1 | | 12/26/24 13:56 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-01-4 | Vinyl Chloride | 2.50 | U | 0.77 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 20.0 | U | 6.20 | 20.0 | 25.0 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 8.00 | U | 3.40 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 2.50 | U | 0.84 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 2.50 | U | 0.63 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 20.0 | U | 5.70 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 2.50 | U | 0.87 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 2.50 | U | 0.61 | 2.50 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 4.00 | U | 0.67 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 2.50 | U | 0.78 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 2.50 | U | 0.72 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 2.50 | U | 0.61 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 2.50 | U | 0.89 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 2.50 | U | 0.74 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 2.50 | U | 0.62 | 2.50 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 7.50 | U | 2.10 | 7.50 | 15.0 | ug/Kg |
| 103-65-1 | n-propylbenzene | 2.50 | U | 0.64 | 2.50 | 5.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 2.50 | U | 1.40 | 2.50 | 5.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 2.50 | U | 0.67 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 2.50 | U | 0.74 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 2.50 | U | 0.80 | 2.50 | 5.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 2.50 | U | 0.63 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 2.50 | U | 0.59 | 2.50 | 5.00 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 80.0 | U | 42.5 | 80.0 | 100 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 64.7 | | 71 - 136 | | 129% | SPK: 50 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | VY1226SBL01 | SDG No.: | P5316 |
| Lab Sample ID: | VY1226SBL01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020714.D | 1 | | 12/26/24 13:56 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 57.6 | | 78 - 119 | | 115% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.6 | | 85 - 116 | | 105% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.0 | | 79 - 119 | | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 99500 | 7.719 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 157000 | 8.622 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 134000 | 11.42 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 56300 | 13.352 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020714.D
Acq On : 26 Dec 2024 13:56
Operator : SY/MD
Sample : VY1226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBL01

Quant Time: Dec 26 16:15:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

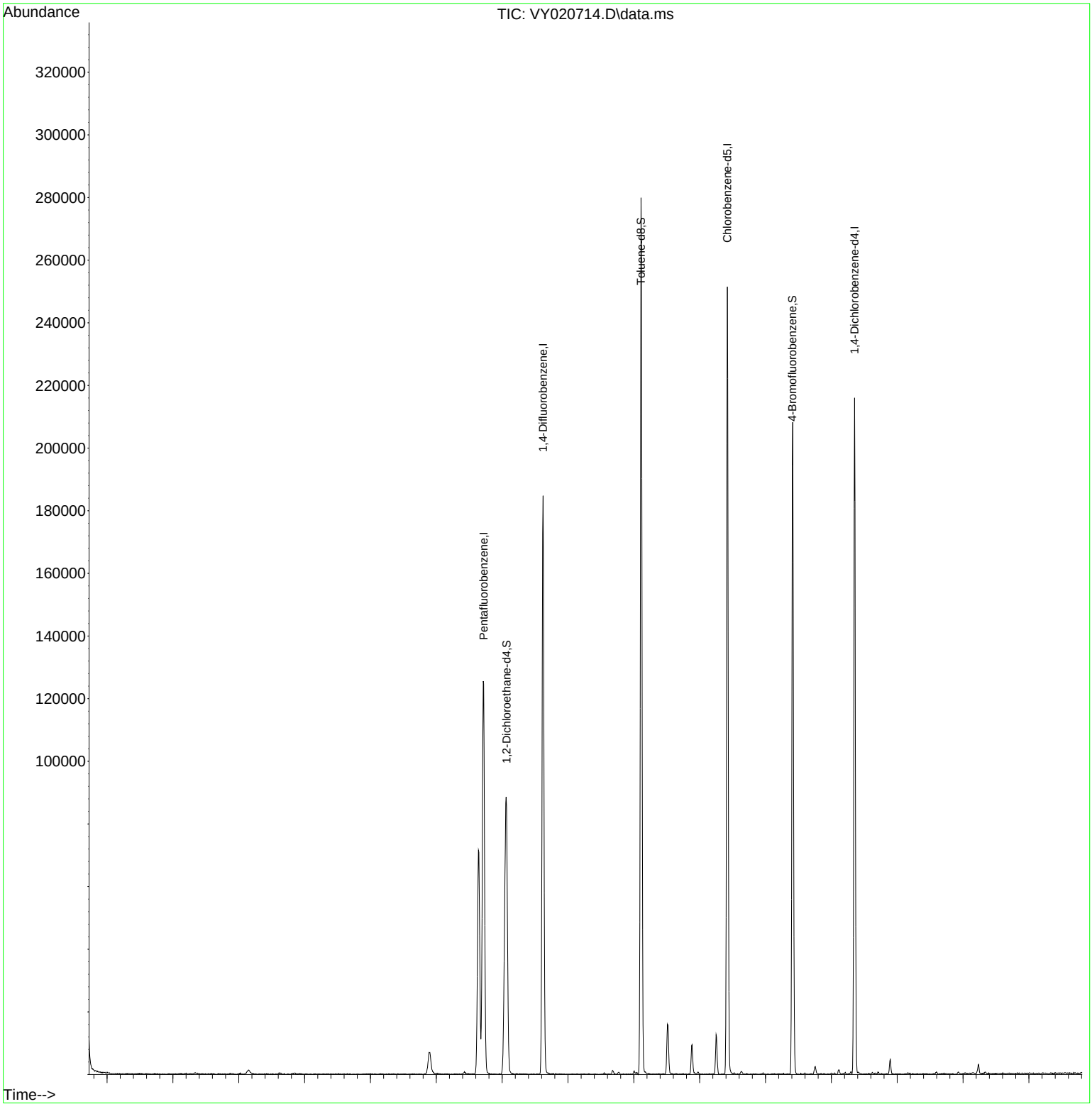
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 99549 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 157271 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 133794 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 56315 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 52717 | 64.652 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 129.300% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 49885 | 57.586 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 115.180% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 181408 | 52.569 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 105.140% | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 58692 | 50.981 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 101.960% | | | |
| Target Compounds | | | | | | Qvalue |

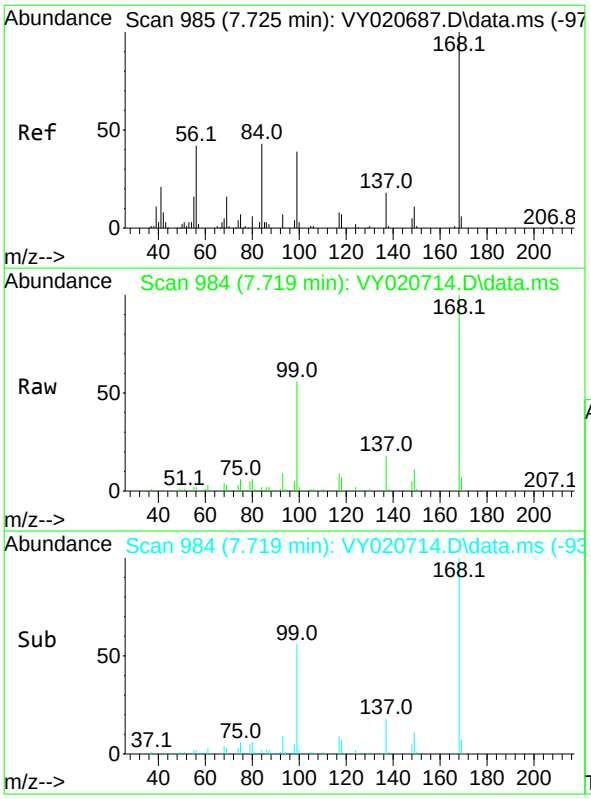
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020714.D
Acq On : 26 Dec 2024 13:56
Operator : SY/MD
Sample : VY1226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBL01

Quant Time: Dec 26 16:15:26 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration



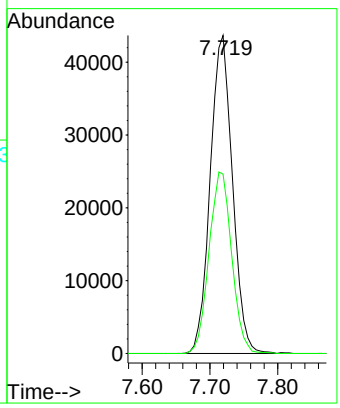


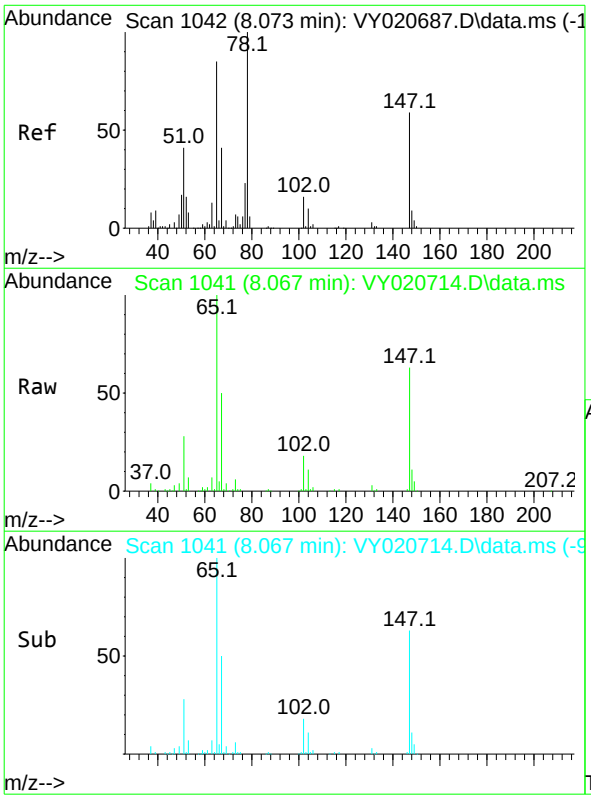

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020714.D
Acq: 26 Dec 2024 13:56

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBL01

Tgt Ion:168 Resp: 99549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.4 | 43.8 | 65.6 |

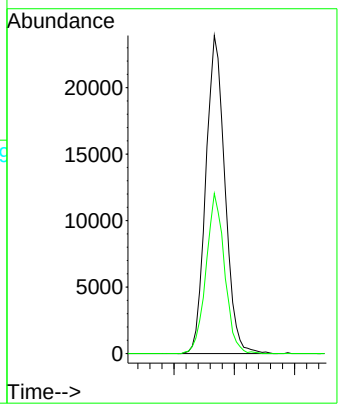


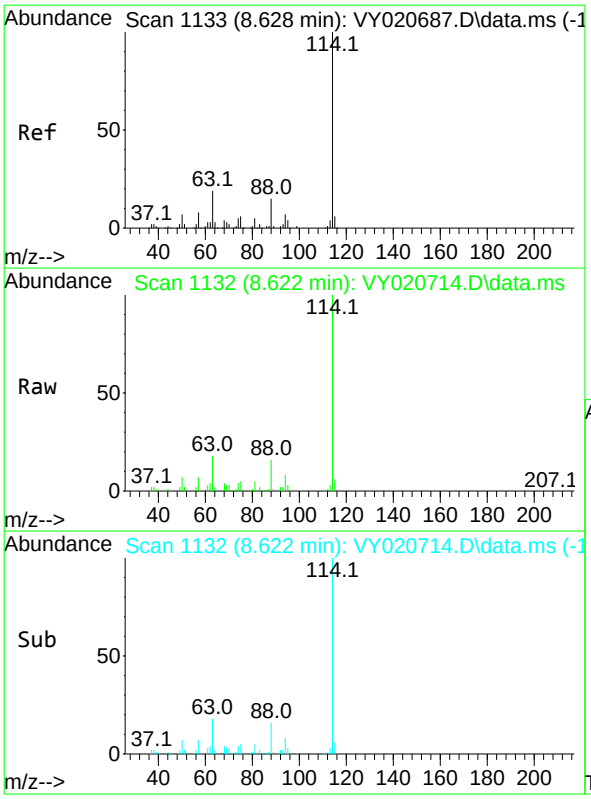




#33
1,2-Dichloroethane-d4
Concen: 64.652 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. -0.006 min
Lab File: VY020714.D
Acq: 26 Dec 2024 13:56

Tgt Ion: 65 Resp: 52717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.8 | 0.0 | 98.0 |



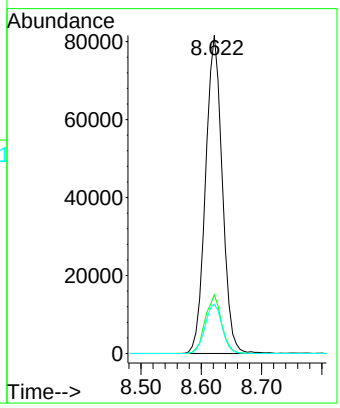


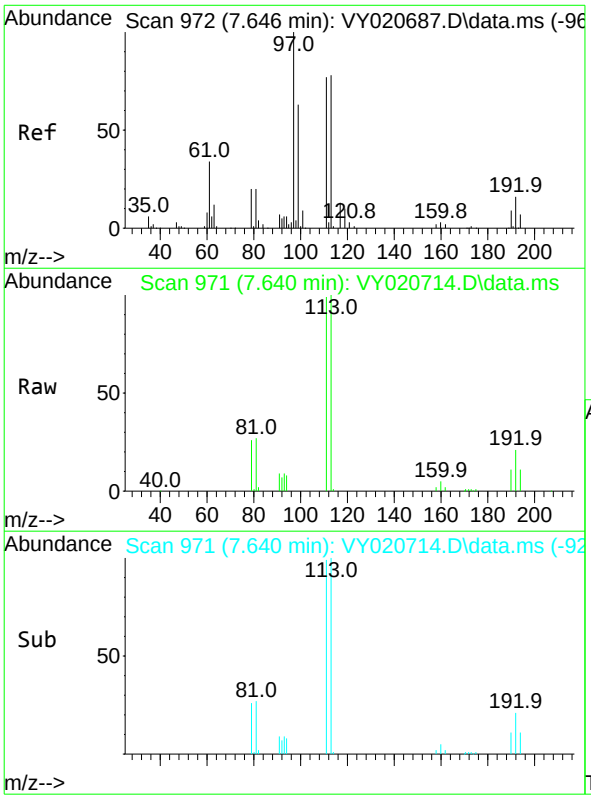

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY020714.D
Acq: 26 Dec 2024 13:56

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBL01

Tgt Ion:114 Resp: 157271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.5 | 0.0 | 38.4 |
| 88 | 15.5 | 0.0 | 30.4 |

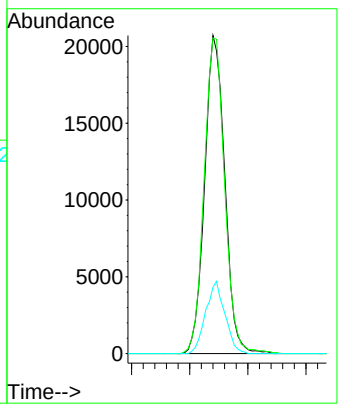


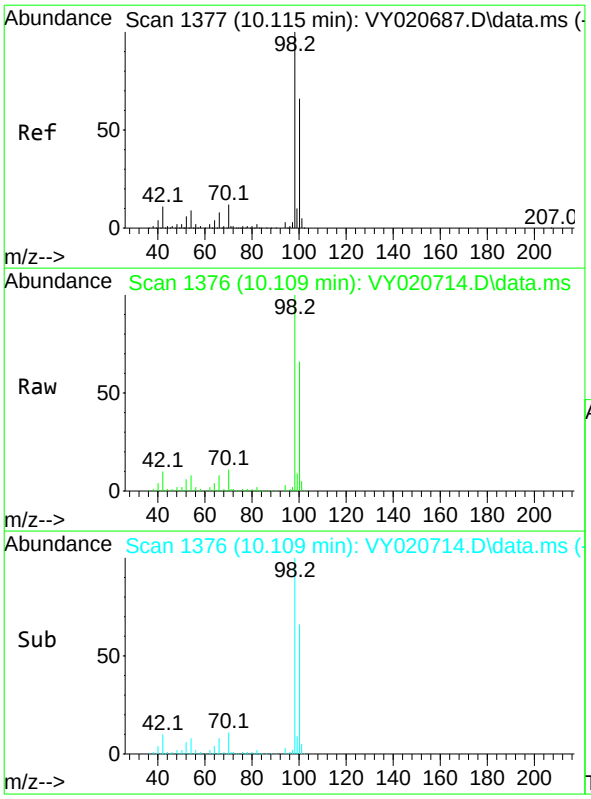




#35
Dibromofluoromethane
Concen: 57.586 ug/l
RT: 7.640 min Scan# 971
Delta R.T. -0.006 min
Lab File: VY020714.D
Acq: 26 Dec 2024 13:56

Tgt Ion:113 Resp: 49885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.3 | 79.8 | 119.8 |
| 192 | 21.7 | 17.0 | 25.6 |



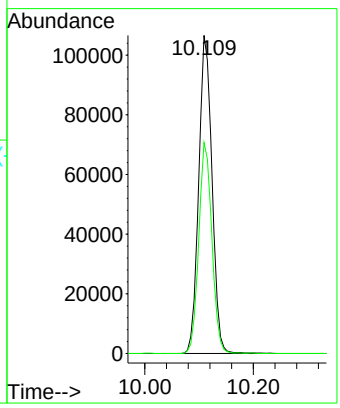


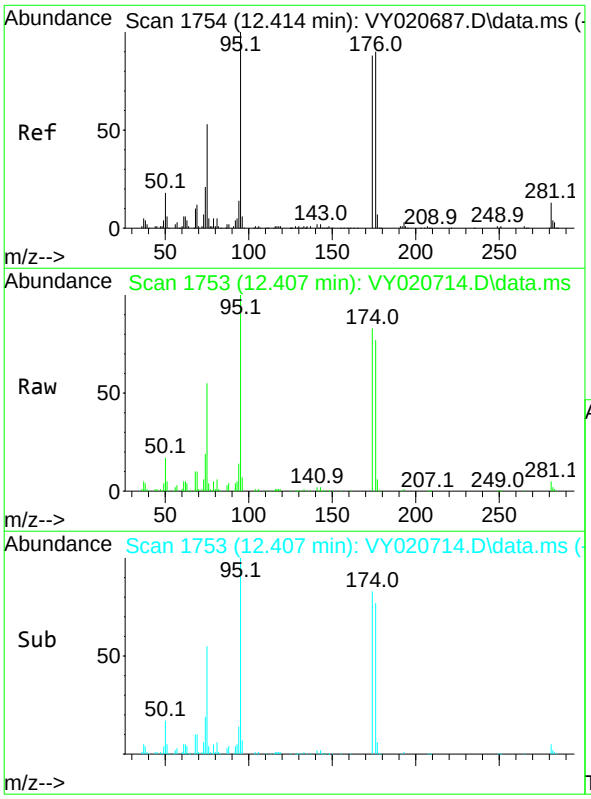

#50
Toluene-d8
Concen: 52.569 ug/l
RT: 10.109 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020714.D
Acq: 26 Dec 2024 13:56

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBL01

Tgt Ion: 98 Resp: 181408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.6 | 52.2 | 78.4 |

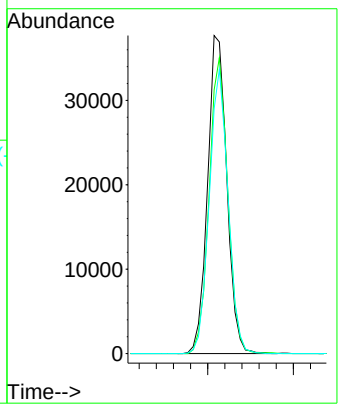


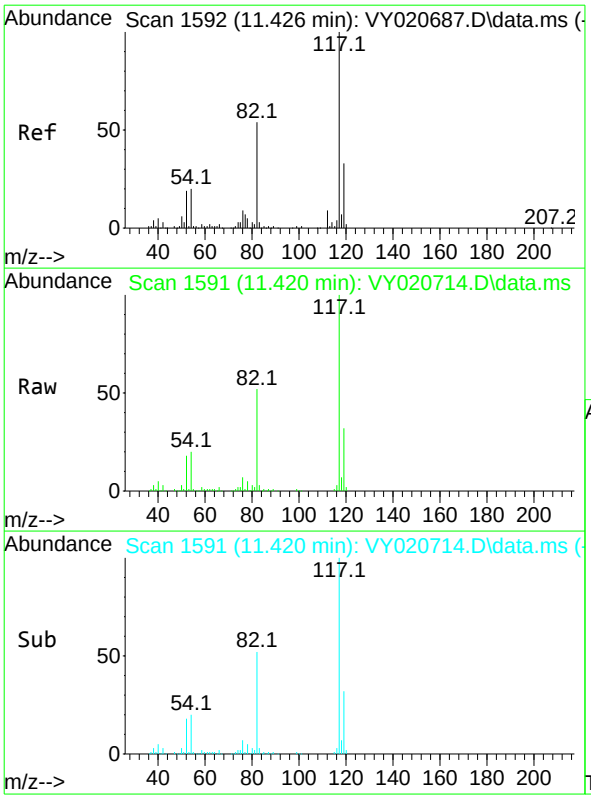




#62
4-Bromofluorobenzene
Concen: 50.981 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.007 min
Lab File: VY020714.D
Acq: 26 Dec 2024 13:56

Tgt Ion: 95 Resp: 58692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 90.7 | 0.0 | 179.2 |
| 176 | 87.5 | 0.0 | 179.8 |



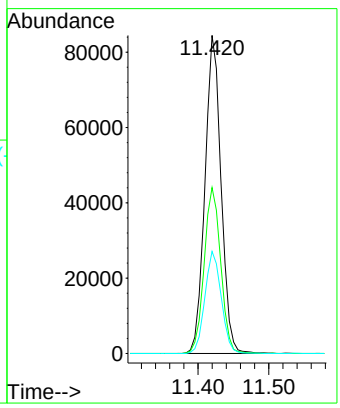


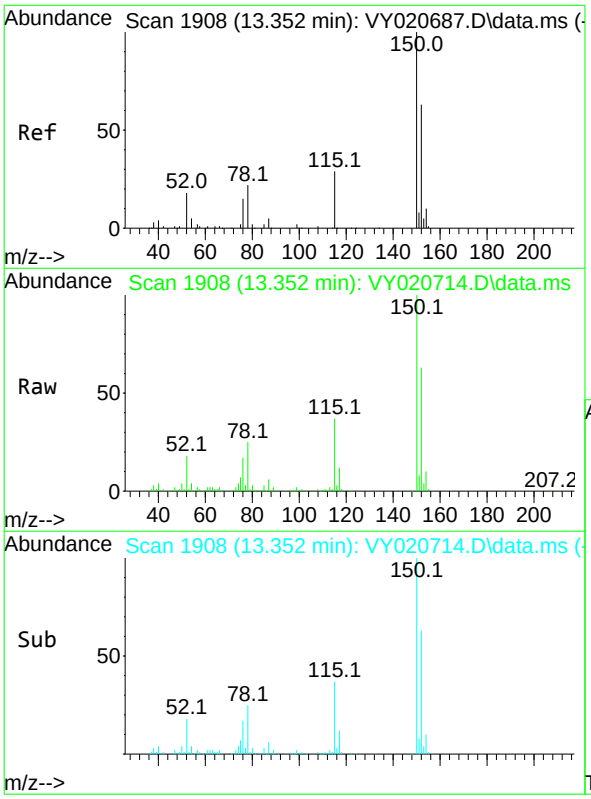

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020714.D
Acq: 26 Dec 2024 13:56

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBL01

Tgt Ion:117 Resp: 133794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.2 | 43.4 | 65.2 |
| 119 | 32.1 | 26.6 | 39.8 |

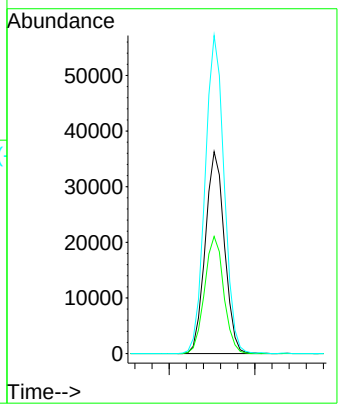



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY020714.D
Acq: 26 Dec 2024 13:56

Tgt Ion:152 Resp: 56315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 57.9 | 30.3 | 90.9 |
| 150 | 156.9 | 0.0 | 349.0 |



Sample Results: **VY020714.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020714.D
Acq On : 26 Dec 2024 13:56
Operator : SY/MD
Sample : VY1226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBL01

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Title : SW846 8260

Signal : TIC: VY020714.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.153 | 387 | 399 | 407 | rBV2 | 1364 | 4907 | 1.03% | 0.177% |
| 2 | 6.890 | 839 | 848 | 863 | rBV2 | 6976 | 23049 | 4.84% | 0.831% |
| 3 | 7.640 | 961 | 971 | 977 | rBV | 71538 | 173067 | 36.31% | 6.243% |
| 4 | 7.713 | 977 | 983 | 997 | rVB | 125354 | 295011 | 61.90% | 10.642% |
| 5 | 8.061 | 1026 | 1040 | 1054 | rBV2 | 88564 | 269033 | 56.45% | 9.705% |
| 6 | 8.622 | 1122 | 1132 | 1146 | rBV | 184725 | 361491 | 75.85% | 13.040% |
| 7 | 10.109 | 1369 | 1376 | 1386 | rBV | 279931 | 476616 | 100.00% | 17.192% |
| 8 | 10.511 | 1435 | 1442 | 1451 | rBV | 15917 | 30724 | 6.45% | 1.108% |
| 9 | 10.883 | 1497 | 1503 | 1512 | rBV | 9482 | 16811 | 3.53% | 0.606% |
| 10 | 11.249 | 1558 | 1563 | 1570 | rVB2 | 12542 | 20144 | 4.23% | 0.727% |
| 11 | 11.420 | 1584 | 1591 | 1606 | rVB | 251298 | 407391 | 85.48% | 14.695% |
| 12 | 12.414 | 1747 | 1754 | 1764 | rBV2 | 208200 | 343331 | 72.04% | 12.385% |
| 13 | 12.755 | 1803 | 1810 | 1819 | rBV4 | 2506 | 4941 | 1.04% | 0.178% |
| 14 | 13.352 | 1901 | 1908 | 1916 | rBV | 215797 | 334229 | 70.13% | 12.056% |
| 15 | 13.895 | 1991 | 1997 | 2001 | rVB2 | 4585 | 6730 | 1.41% | 0.243% |
| 16 | 15.236 | 2211 | 2217 | 2221 | rBV2 | 2981 | 4770 | 1.00% | 0.172% |

Sum of corrected areas: 2772245

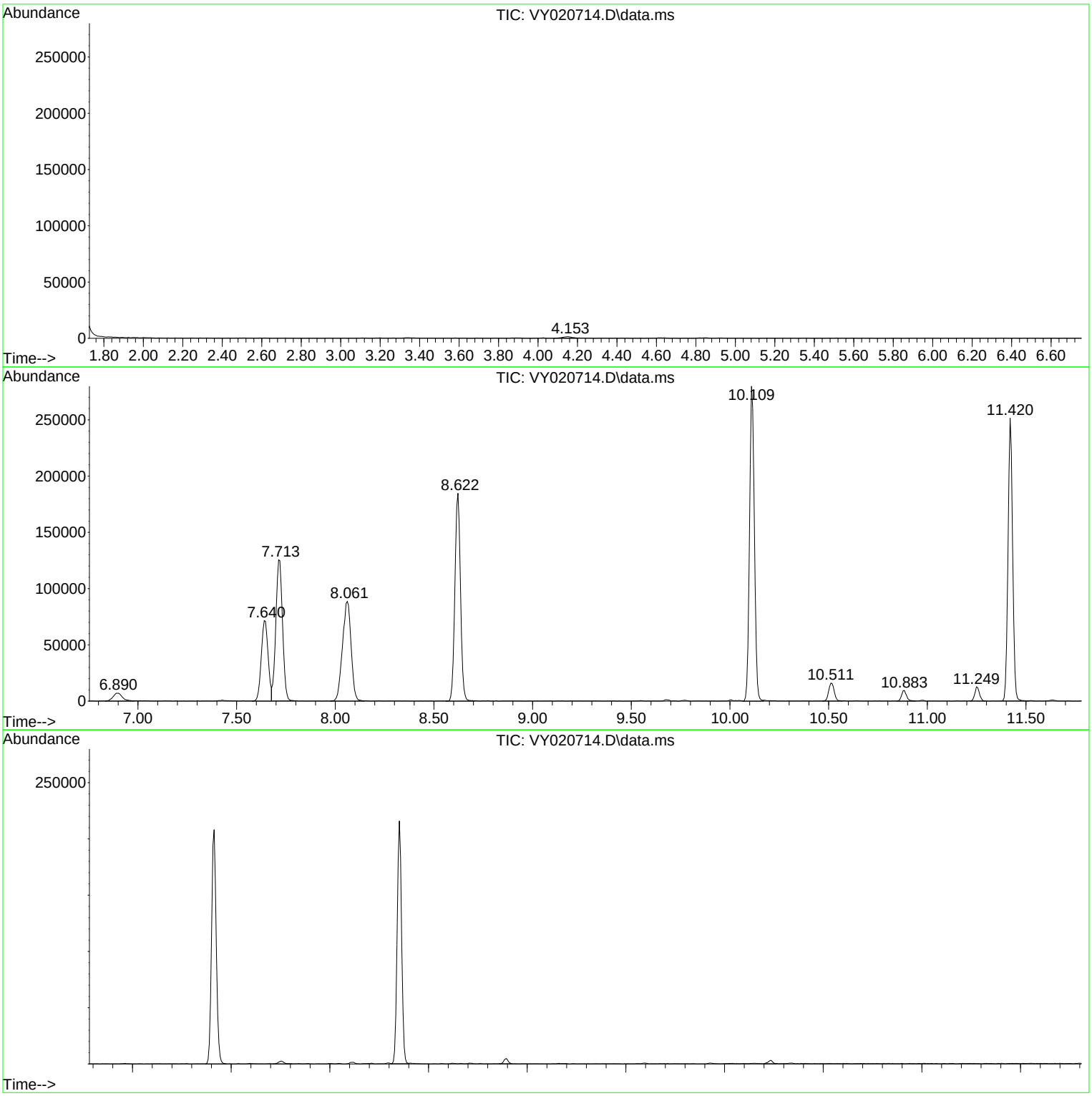
Sample Results: **VY020714.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020714.D
Acq On : 26 Dec 2024 13:56
Operator : SY/MD
Sample : VY1226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020714.D
Acq On : 26 Dec 2024 13:56
Operator : SY/MD
Sample : VY1226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

No Library Search Compounds Detected
**********

Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020714.D
Acq On : 26 Dec 2024 13:56
Operator : SY/MD
Sample : VY1226SBL01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | VY1220SBS01 | SDG No.: | P5316 |
| Lab Sample ID: | VY1220SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020666.D | 1 | | 12/20/24 13:12 | VY122024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-01-4 | Vinyl Chloride | 15.8 | | 0.77 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 16.1 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 63.0 | | 6.20 | 20.0 | 25.0 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 19.9 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 17.7 | | 3.40 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 21.5 | | 0.84 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 21.4 | | 0.63 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 91.7 | | 5.70 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 22.4 | | 0.87 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 20.9 | | 0.61 | 2.50 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 19.1 | | 0.67 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 21.7 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 22.1 | | 0.72 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 21.0 | | 0.61 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 21.9 | | 0.75 | 2.50 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 22.1 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 21.9 | | 0.89 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 22.3 | | 0.74 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 22.2 | | 0.62 | 2.50 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 66.9 | | 2.10 | 7.50 | 15.0 | ug/Kg |
| 103-65-1 | n-propylbenzene | 22.0 | | 0.64 | 2.50 | 5.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 20.9 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 24.5 | | 1.40 | 2.50 | 5.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 21.8 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 21.6 | | 0.74 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 21.6 | | 0.80 | 2.50 | 5.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 22.3 | | 0.63 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 21.5 | | 0.59 | 2.50 | 5.00 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 370 | | 42.5 | 80.0 | 100 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 43.1 | | 71 - 136 | | 86% | SPK: 50 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | VY1220SBS01 | SDG No.: | P5316 |
| Lab Sample ID: | VY1220SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020666.D | 1 | | 12/20/24 13:12 | VY122024 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 46.1 | | 78 - 119 | | 92% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 46.6 | | 85 - 116 | | 93% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 44.2 | | 79 - 119 | | 88% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 157000 | 7.713 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 237000 | 8.615 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 208000 | 11.42 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 117000 | 13.352 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 157442 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 237485 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 207752 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 116933 | 50.000 | ug/l | | 0.00 |
| **System Monitoring Compounds** | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 74322 | 43.102 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 86.200% | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 77189 | 46.118 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 92.240% | | | | |
| 50) Toluene-d8 | 10.109 | 98 | 273250 | 46.643 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 93.280% | | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 101336 | 44.220 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 88.440% | | | | |
| **Target Compounds** | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 46496 | 23.644 | ug/l | | 99 |
| 3) Chloromethane | 2.074 | 50 | 24398 | 16.744 | ug/l | | 97 |
| 4) Vinyl Chloride | 2.208 | 62 | 21407 | 15.785 | ug/l | | 97 |
| 5) Bromomethane | 2.598 | 94 | 12985 | 14.895 | ug/l | | 97 |
| 6) Chloroethane | 2.732 | 64 | 11282 | 13.462 | ug/l | | 91 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 47245 | 16.649 | ug/l | | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 13504 | 13.569 | ug/l | | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 32580 | 16.018 | ug/l | | 94 |
| 10) Methyl Iodide | 4.007 | 142 | 38530 | 17.014 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.854 | 59 | 18773 | 80.656 | ug/l | # | 94 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 31773 | 16.099 | ug/l | | 94 |
| 13) Acrolein | 3.659 | 56 | 5627 | 69.014 | ug/l | | 97 |
| 14) Allyl chloride | 4.385 | 41 | 56459 | 16.326 | ug/l | | 96 |
| 15) Acrylonitrile | 5.061 | 53 | 46605 | 97.887 | ug/l | | 99 |
| 16) Acetone | 3.872 | 43 | 23242 | 63.034 | ug/l | | 99 |
| 17) Carbon Disulfide | 4.110 | 76 | 111849 | 17.411 | ug/l | | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 17854 | 15.218 | ug/l | | 97 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 101223 | 19.872 | ug/l | | 97 |
| 20) Methylene Chloride | 4.616 | 84 | 38027 | 17.737 | ug/l | | 98 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 47558 | 21.482 | ug/l | | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 147396 | 20.998 | ug/l | | 94 |
| 23) Vinyl Acetate | 5.963 | 43 | 401517 | 100.993 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 87971 | 21.392 | ug/l | | 99 |
| 25) 2-Butanone | 6.896 | 43 | 58734 | 91.655 | ug/l | | 98 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 82041 | 21.104 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 53177 | 20.878 | ug/l | | 99 |
| 28) Bromochloromethane | 7.250 | 49 | 23622 | 17.030 | ug/l | | 100 |
| 29) Tetrahydrofuran | 7.268 | 42 | 38523 | 95.228 | ug/l | | 99 |
| 30) Chloroform | 7.427 | 83 | 92559 | 19.148 | ug/l | | 97 |
| 31) Cyclohexane | 7.701 | 56 | 83030 | 21.116 | ug/l | | 98 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 81959 | 21.694 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 67060 | 21.973 | ug/l | # | 91 |
| 37) Ethyl Acetate | 6.988 | 43 | 26953 | 18.775 | ug/l | | 97 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 75634 | 22.399 | ug/l | | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 87624 | 22.028 | ug/l | | 98 |
| 40) Benzene | 8.079 | 78 | 197331 | 22.058 | ug/l | | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 14883 | 19.610 ug/l | 93 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 49803 | 20.991 ug/l | 100 |
| 43) Isopropyl Acetate | 8.201 | 43 | 54326 | 19.989 ug/l | 99 |
| 44) Trichloroethene | 8.865 | 130 | 48185 | 21.921 ug/l | 95 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 45779 | 21.896 ug/l | 99 |
| 46) Dibromomethane | 9.231 | 93 | 23641 | 21.396 ug/l | 96 |
| 47) Bromodichloromethane | 9.426 | 83 | 63960 | 21.429 ug/l | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 25905 | 20.050 ug/l | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 4698 | 370.747 ug/l # | 93 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 135892 | 94.726 ug/l | 99 |
| 52) Toluene | 10.170 | 92 | 122615 | 22.055 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 89982 | 32.354 ug/l | 94 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 70570 | 21.413 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 30195 | 20.669 ug/l | 98 |
| 56) Ethyl methacrylate | 10.438 | 69 | 42515 | 20.060 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 66722 | 25.621 ug/l # | 42 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 91434 | 102.533 ug/l # | 71 |
| 59) 2-Hexanone | 10.761 | 43 | 90691 | 98.464 ug/l | 97 |
| 60) Dibromochloromethane | 10.914 | 129 | 41185 | 21.080 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.017 | 107 | 28561 | 21.018 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 42833 | 21.919 ug/l | 92 |
| 65) Chlorobenzene | 11.444 | 112 | 129331 | 22.264 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 43055 | 21.675 ug/l | 97 |
| 67) Ethyl Benzene | 11.517 | 91 | 238433 | 22.248 ug/l | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 178050 | 44.684 ug/l # | 30 |
| 69) o-Xylene | 11.956 | 106 | 82478 | 22.185 ug/l | 99 |
| 70) Styrene | 11.969 | 104 | 136494 | 21.974 ug/l | 99 |
| 71) Bromoform | 12.133 | 173 | 23329 | 20.889 ug/l # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 221703 | 21.727 ug/l | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 47848 | 20.036 ug/l | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 34416 | 20.778 ug/l | 97 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 27051m | 22.270 ug/l | |
| 77) Bromobenzene | 12.536 | 156 | 47306 | 21.282 ug/l | 98 |
| 78) n-propylbenzene | 12.596 | 91 | 270238 | 21.981 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 150281 | 21.727 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 180725 | 21.827 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 11746 | 20.297 ug/l | 99 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 156322 | 21.784 ug/l | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 156978 | 20.934 ug/l | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 199323 | 24.542 ug/l | 95 |
| 85) sec-Butylbenzene | 13.176 | 105 | 237258 | 21.761 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 198272 | 22.057 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.291 | 146 | 94820 | 21.610 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 94077 | 21.648 ug/l | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 189919 | 22.293 ug/l | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 38301 | 21.500 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 81571 | 21.456 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 9414 | 35.007 ug/l | 57 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 49266 | 21.424 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 32852 | 21.854 ug/l | 99 |
| 95) Naphthalene | 15.151 | 128 | 80228 | 20.350 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 41397 | 21.307 ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

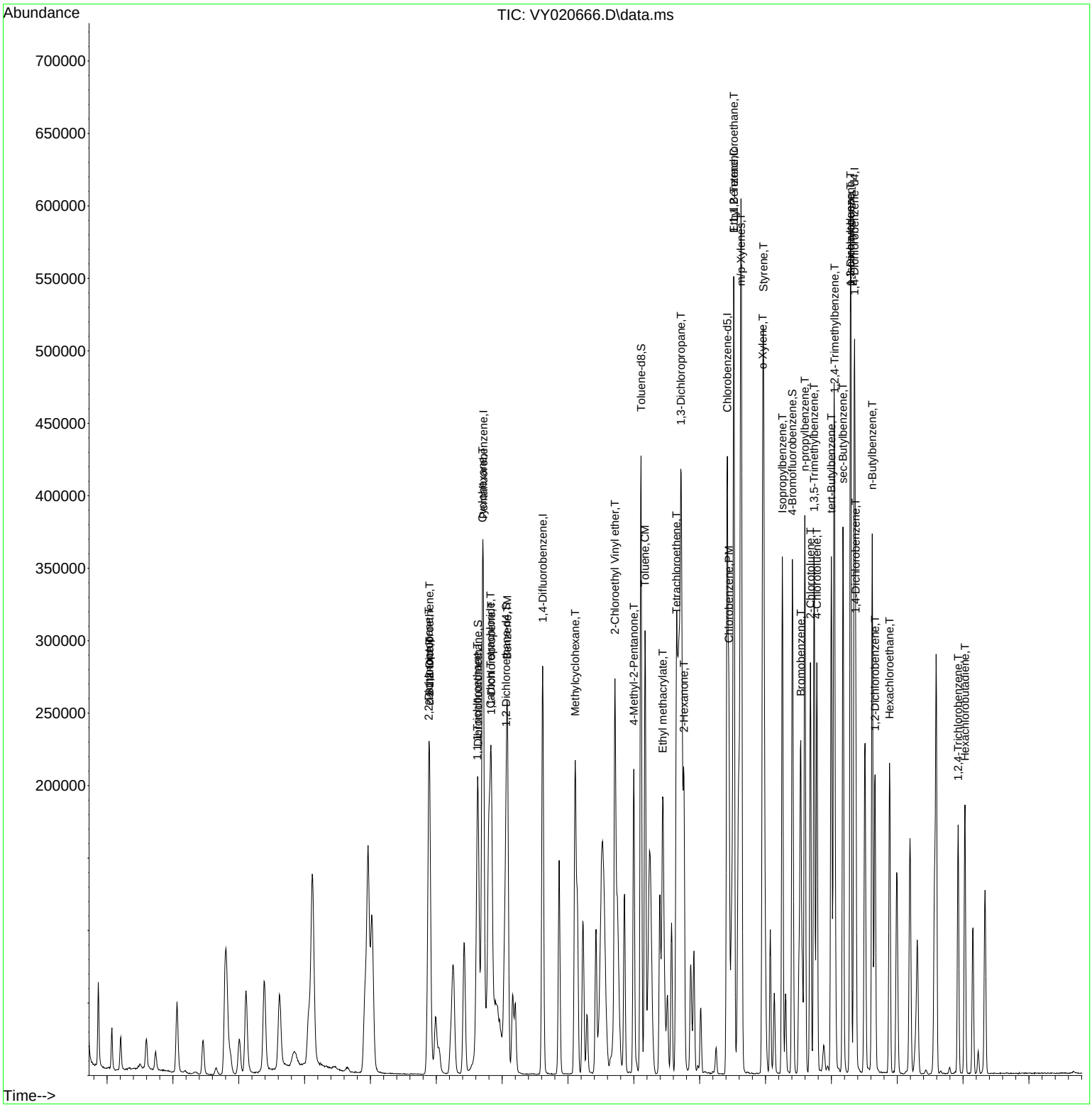
Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

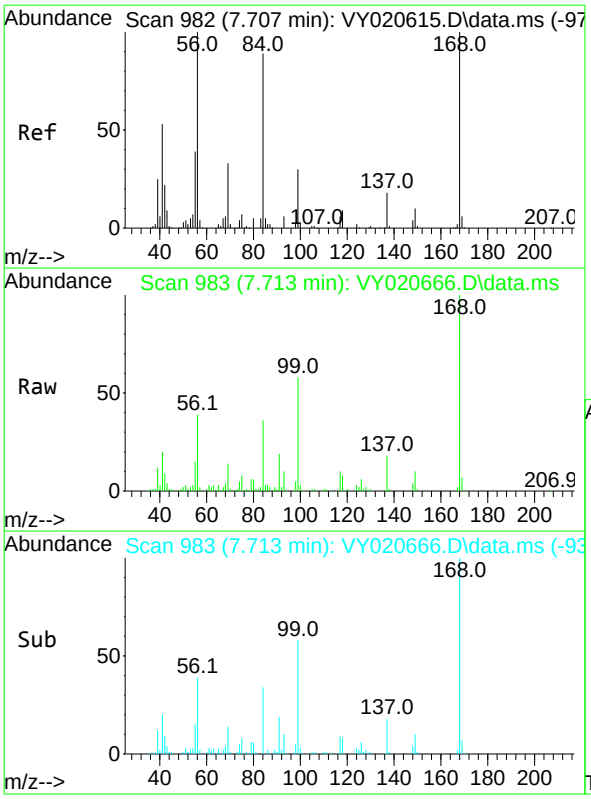
Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

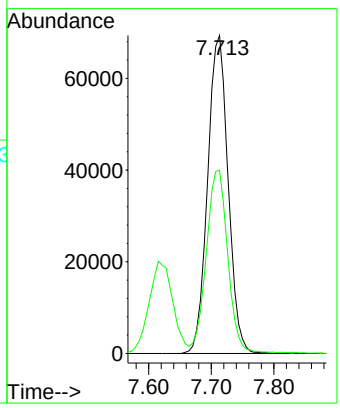





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:168 Resp: 157442

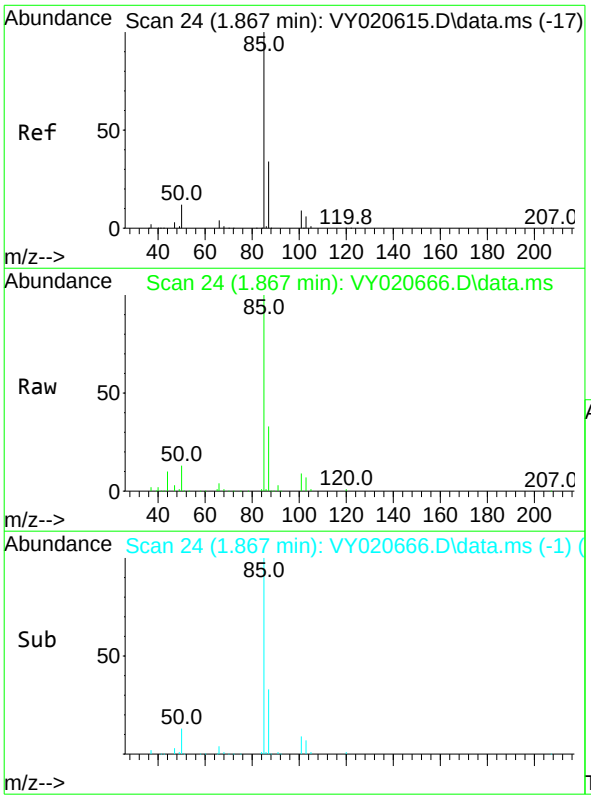
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.3 | 47.0 | 70.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

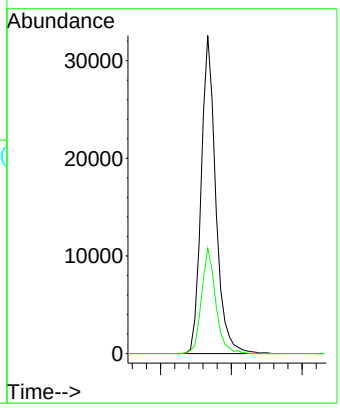
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

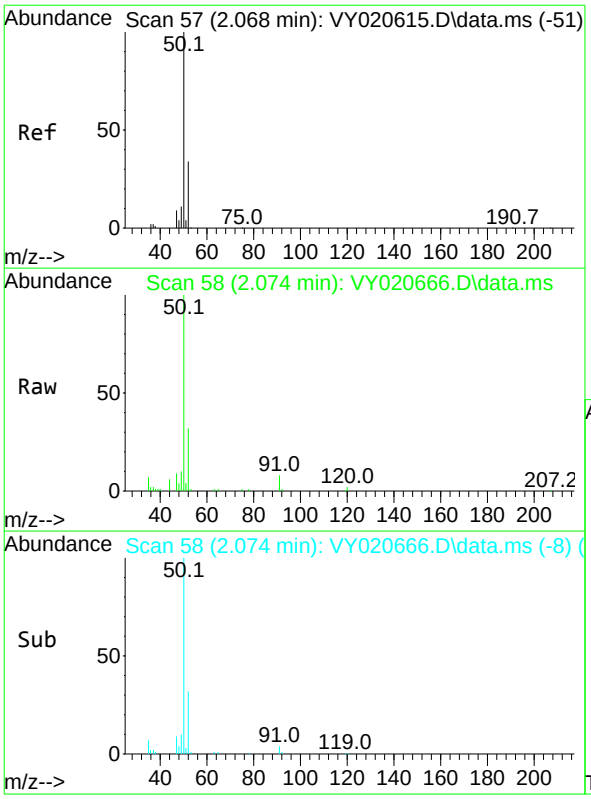



#2
Dichlorodifluoromethane
Concen: 23.644 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 85 Resp: 46496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 16.8 | 50.3 |

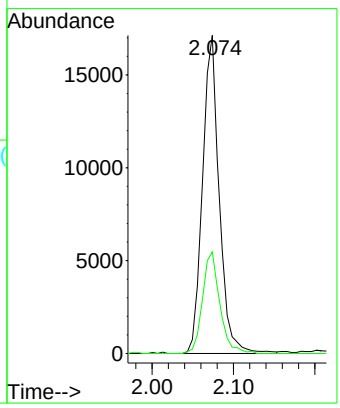





#3
Chloromethane
Concen: 16.744 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 50 Resp: 24398

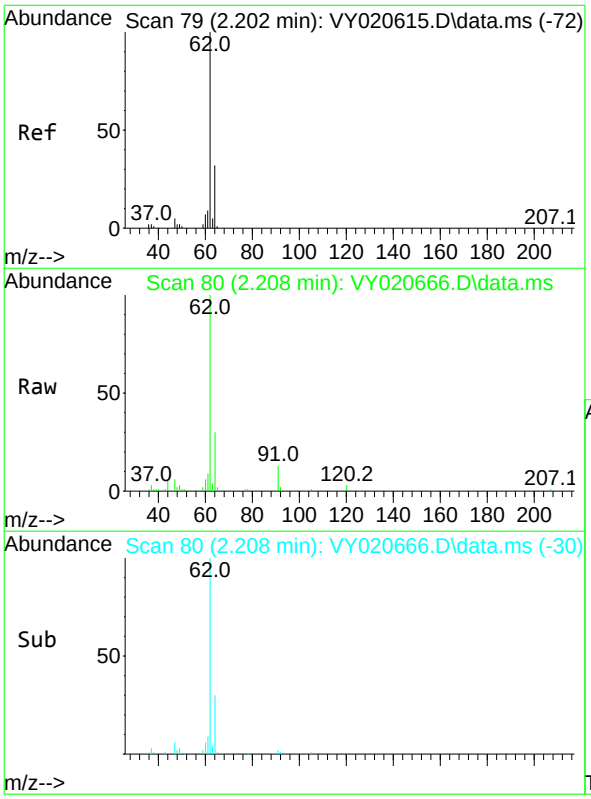
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 26.8 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

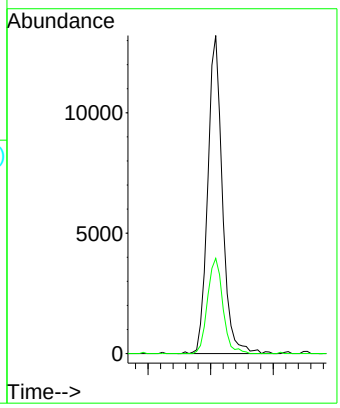
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

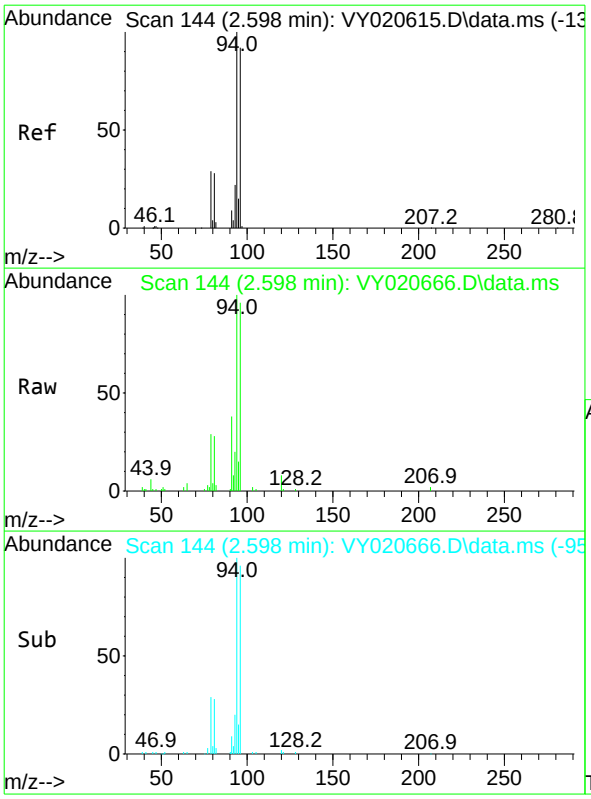



#4
Vinyl Chloride
Concen: 15.785 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 62 Resp: 21407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.9 | 25.3 | 37.9 |

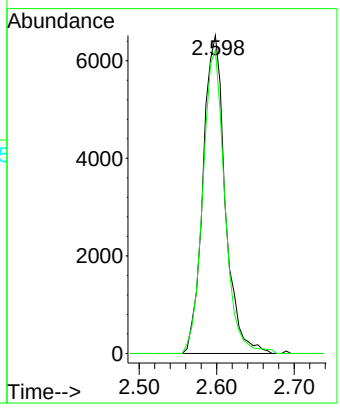





#5
Bromomethane
Concen: 14.895 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 94 Resp: 12985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.5 | 73.8 | 110.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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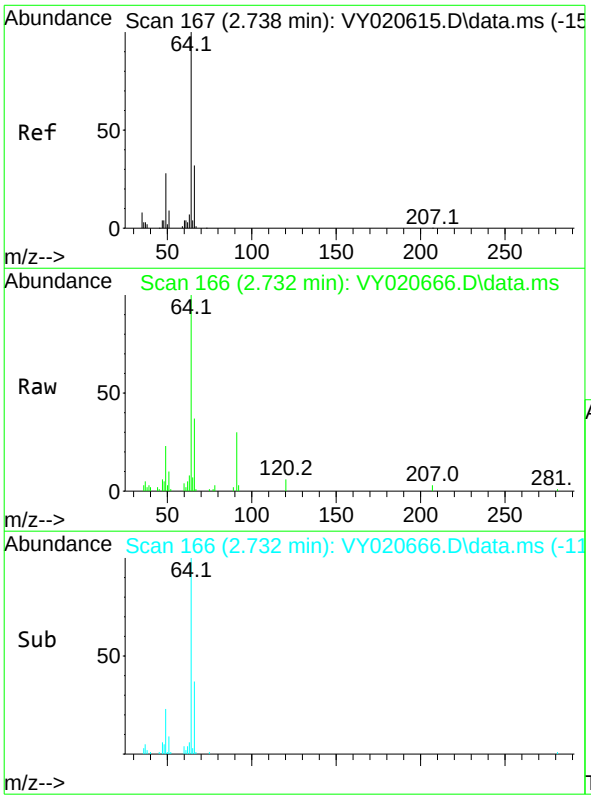
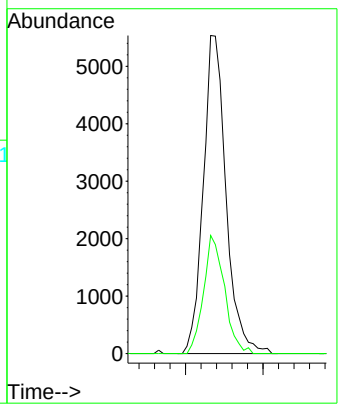
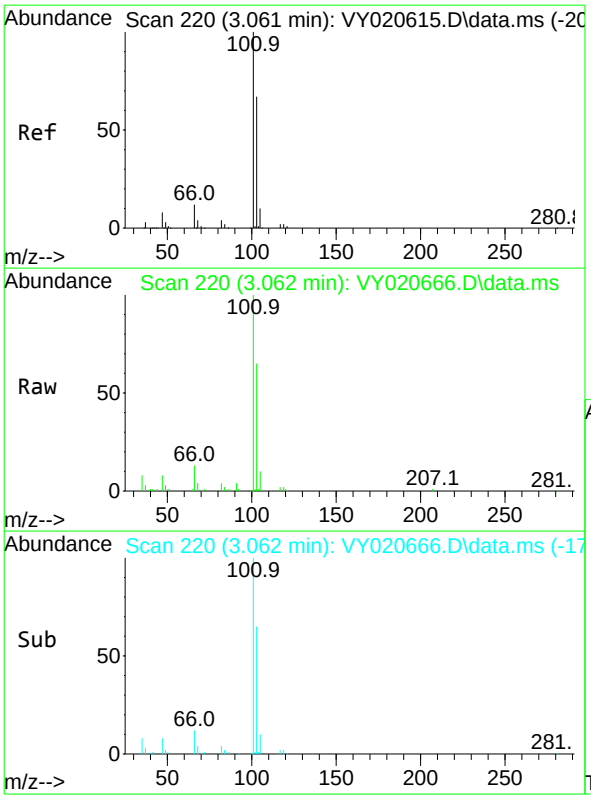



#6
Chloroethane
Concen: 13.462 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 64 Resp: 11282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 37.1 | 25.8 | 38.6 |

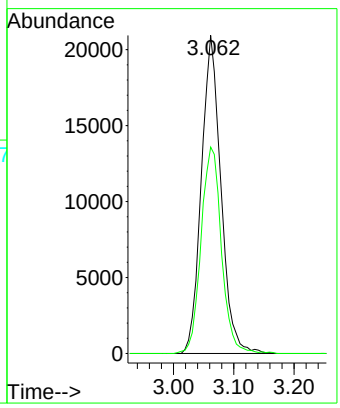





#7
Trichlorofluoromethane
Concen: 16.649 ug/l
RT: 3.062 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:101 Resp: 47245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 53.4 | 80.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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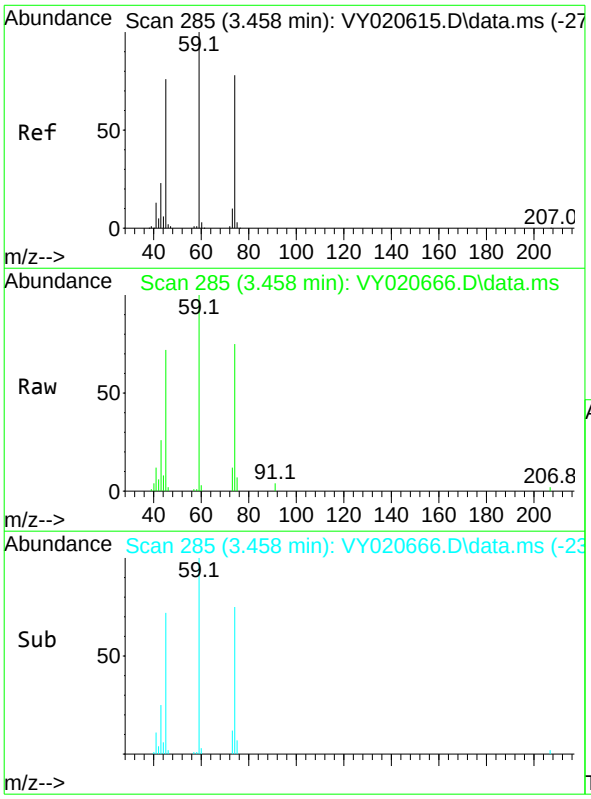
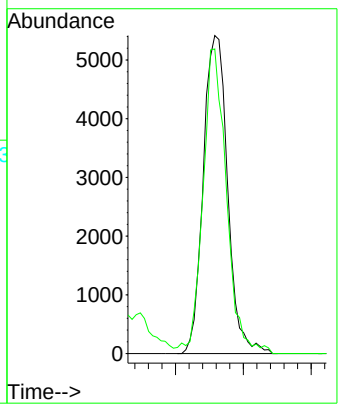
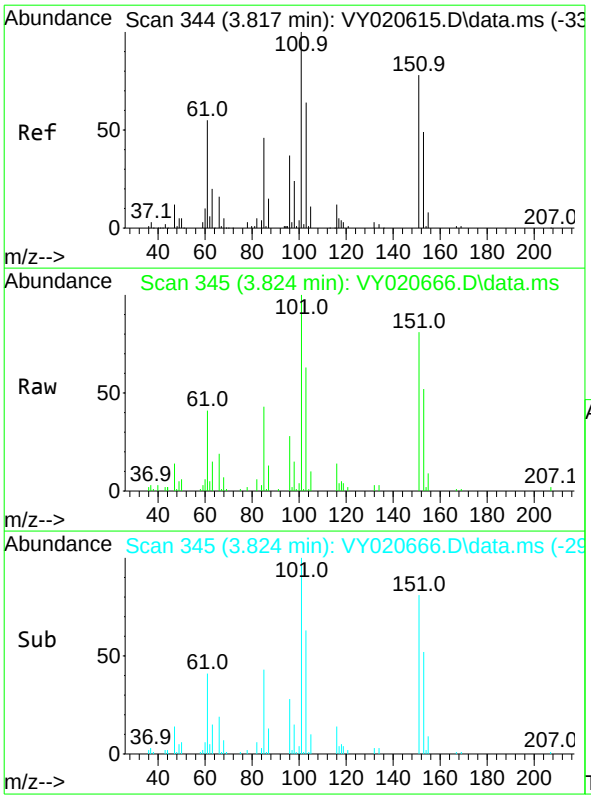



#8
Diethyl Ether
Concen: 13.569 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 74 Resp: 13504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 92.8 | 49.0 | 147.2 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.018 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:101 Resp: 32580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.6 | 36.6 | 54.8 |
| 151 | 83.2 | 61.5 | 92.3 |

**Manual Integrations**
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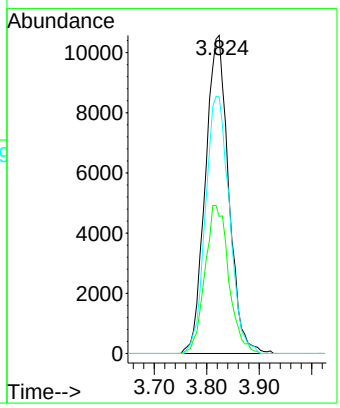
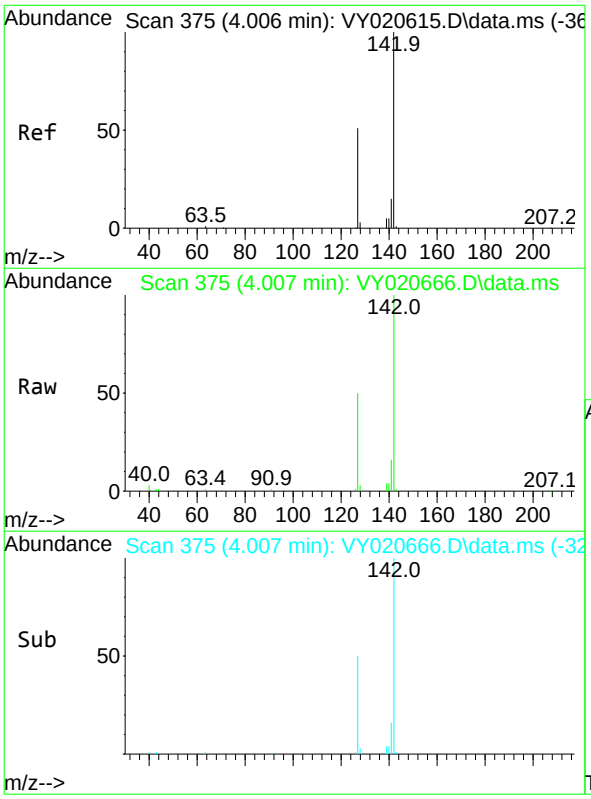
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

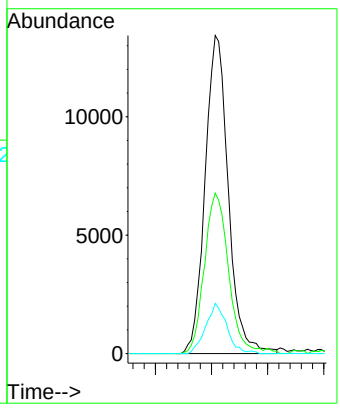


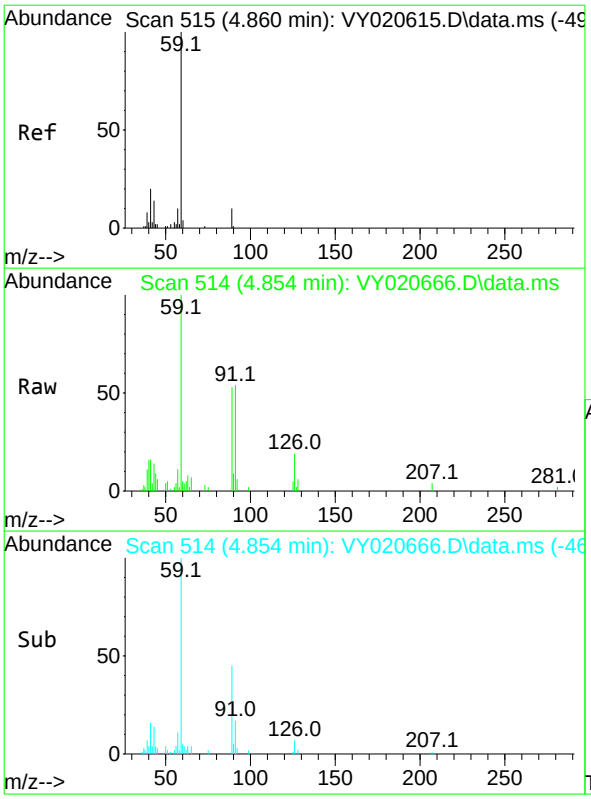




#10
Methyl Iodide
Concen: 17.014 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:142 Resp: 38530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.2 | 40.6 | 61.0 |
| 141 | 14.4 | 11.7 | 17.5 |

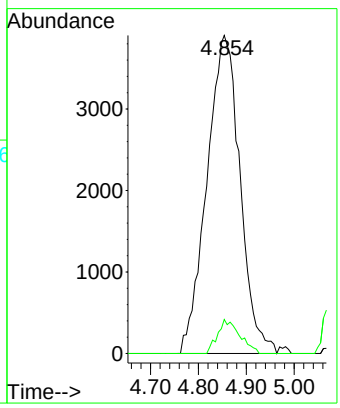





#11
Tert butyl alcohol
Concen: 80.656 ug/l
RT: 4.854 min Scan# 51
Delta R.T. -0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 59 Resp: 18773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 7.1 | 7.4 | 11.0# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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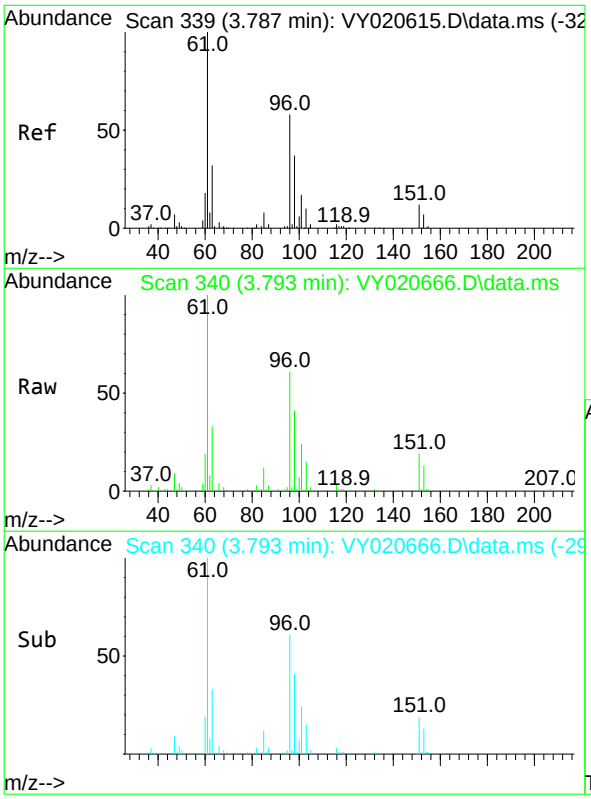
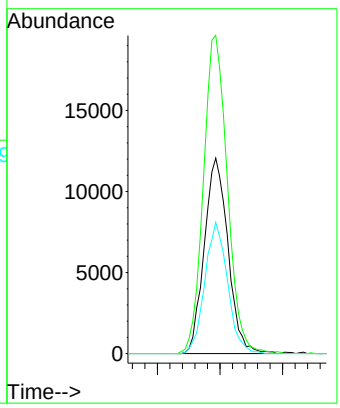
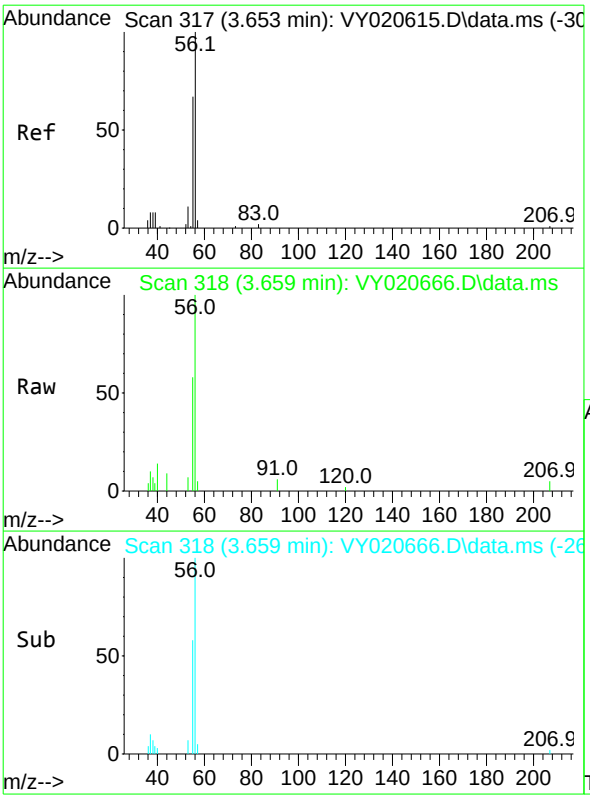



#12
1,1-Dichloroethene
Concen: 16.099 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 96 Resp: 31773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.7 | 136.9 | 205.3 |
| 98 | 67.1 | 50.2 | 75.4 |

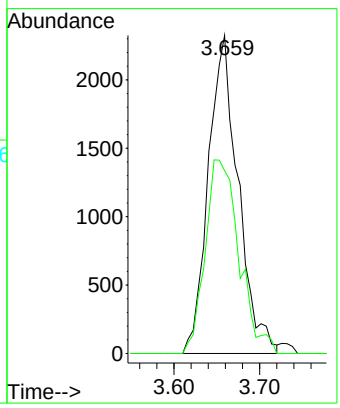





#13
Acrolein
Concen: 69.014 ug/l
RT: 3.659 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 56 Resp: 5627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.1 | 57.5 | 86.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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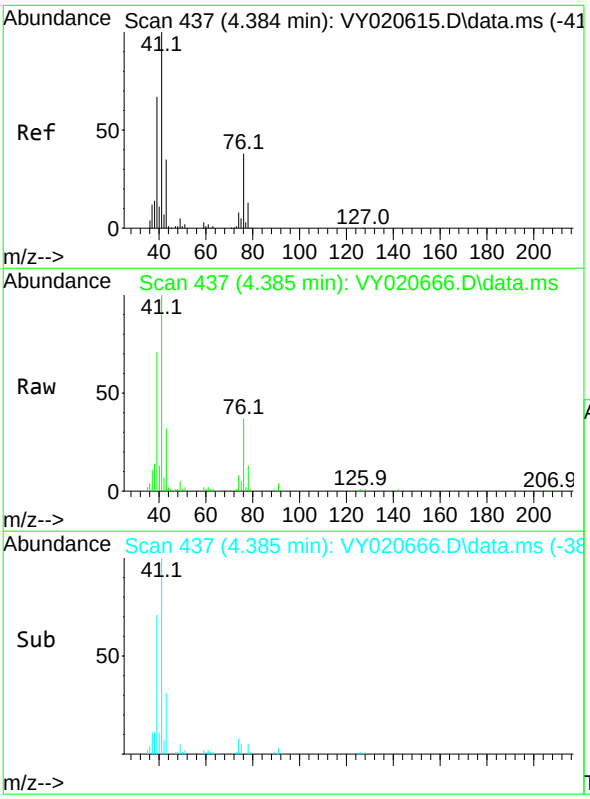
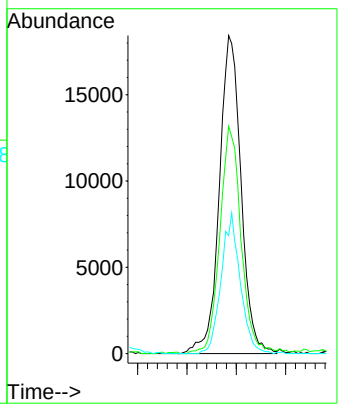
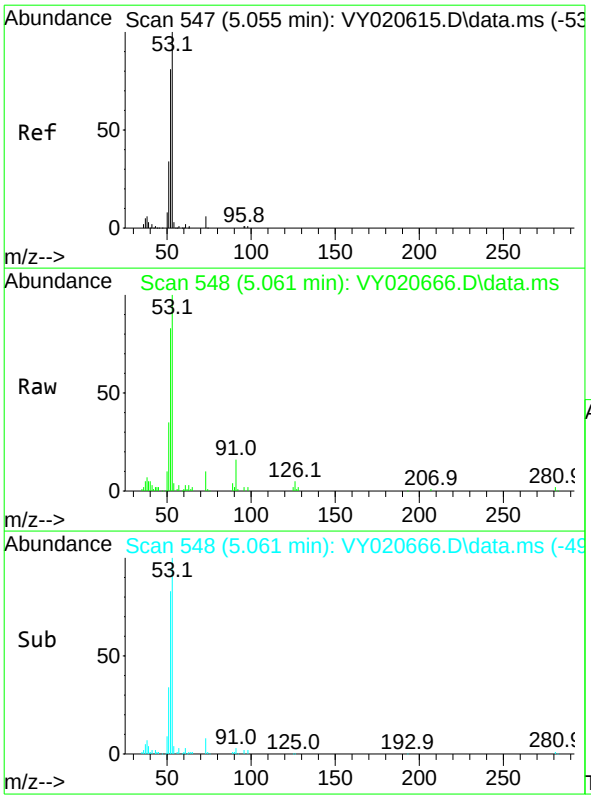



#14
Allyl chloride
Concen: 16.326 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 41 Resp: 56459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 69.5 | 53.0 | 79.4 |
| 76 | 38.6 | 29.5 | 44.3 |

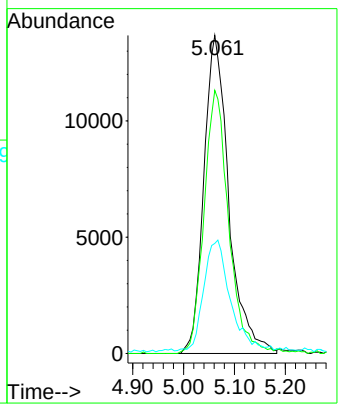





#15
Acrylonitrile
Concen: 97.887 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 53 Resp: 46605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.6 | 64.5 | 96.7 |
| 51 | 37.2 | 29.4 | 44.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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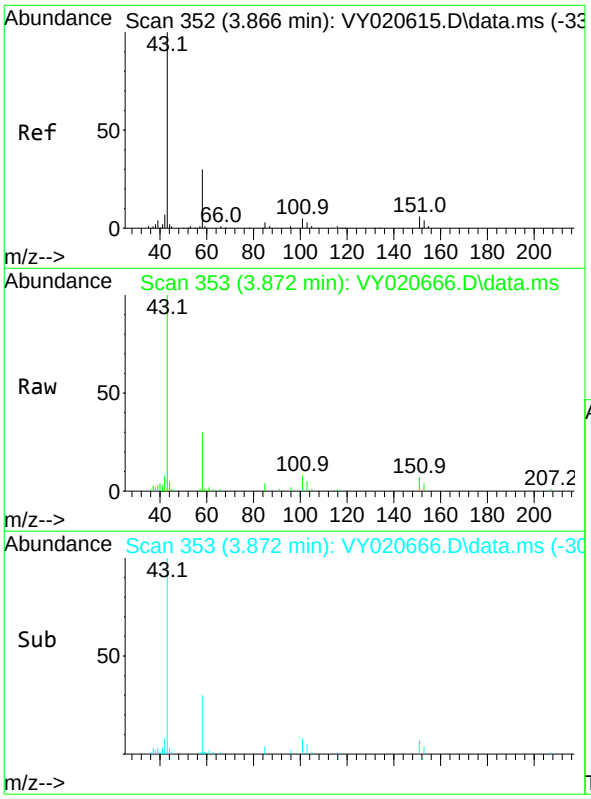
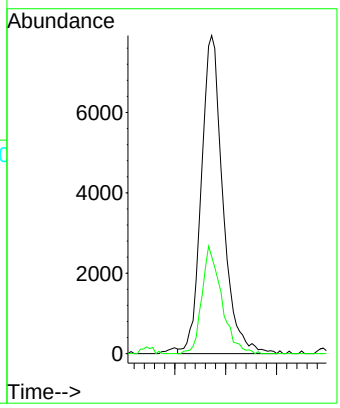
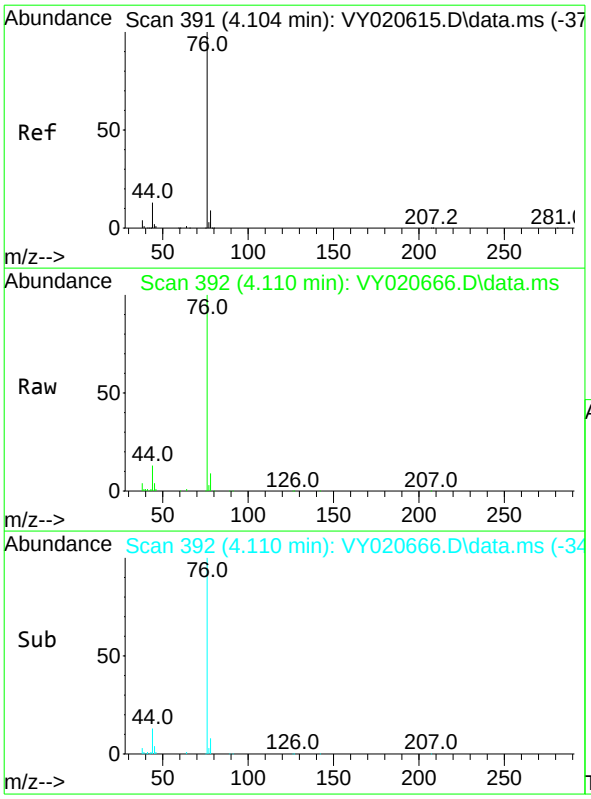



#16
Acetone
Concen: 63.034 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 23242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.5 | 25.0 | 37.6 |

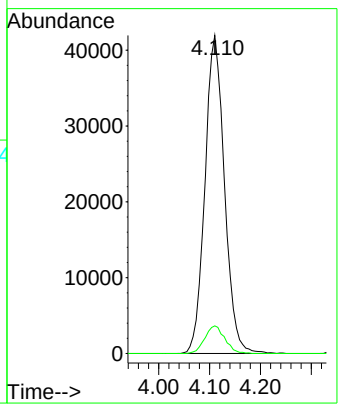





#17
Carbon Disulfide
Concen: 17.411 ug/l
RT: 4.110 min Scan# 39
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 76 Resp: 111849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.2 | 10.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

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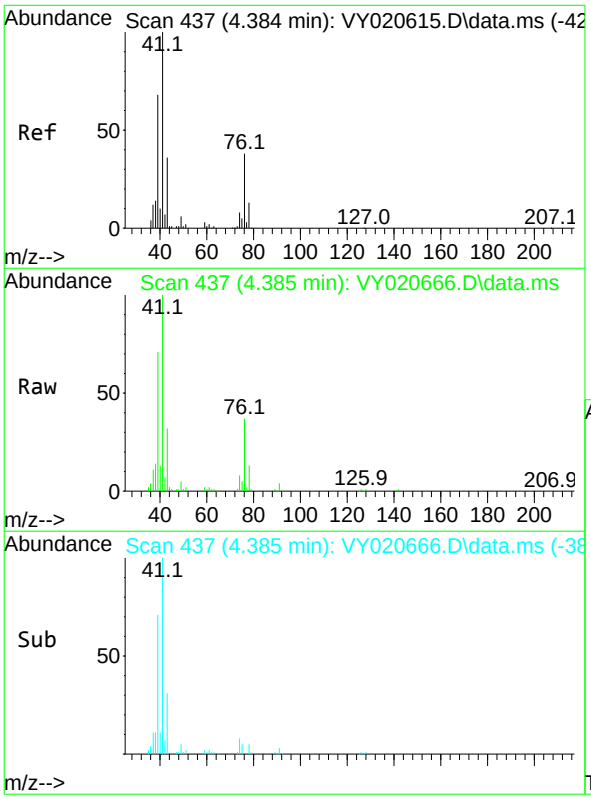
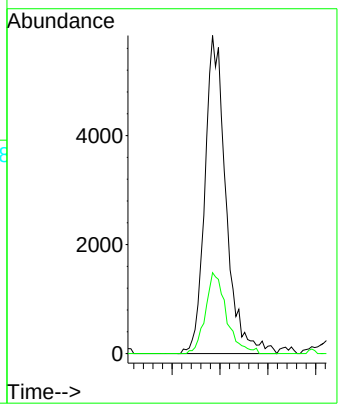
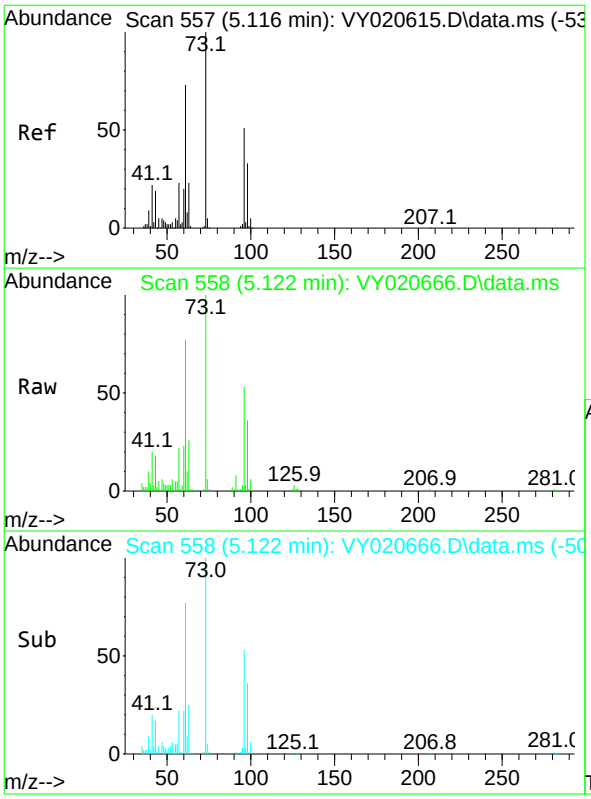



#18
Methyl Acetate
Concen: 15.218 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 17854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.3 | 19.2 | 28.8 |

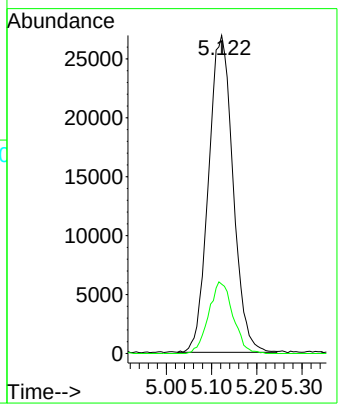





#19
Methyl tert-butyl Ether
Concen: 19.872 ug/l
RT: 5.122 min Scan# 55
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 73 Resp: 101223

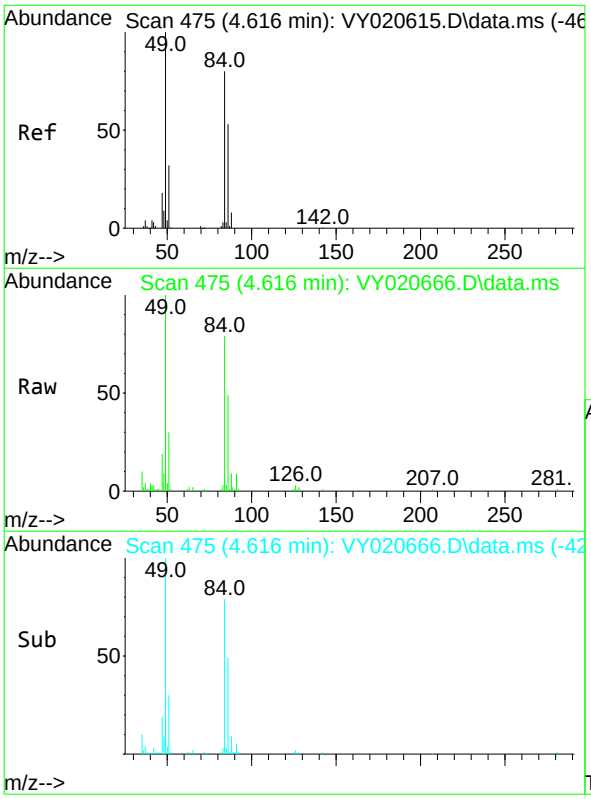
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 18.5 | 27.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

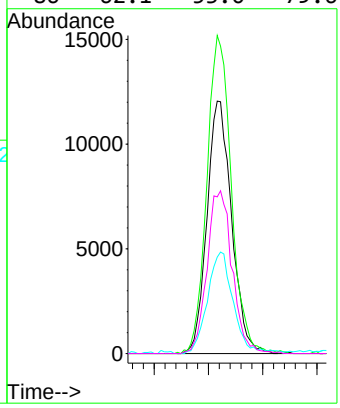
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

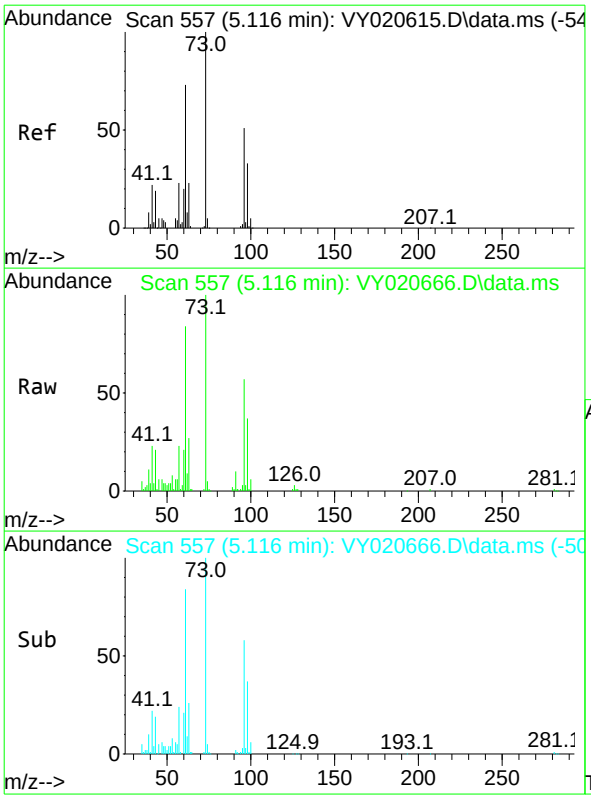



#20
Methylene Chloride
Concen: 17.737 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 84 Resp: 38027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.5 | 100.7 | 151.1 |
| 51 | 38.2 | 32.2 | 48.2 |
| 86 | 62.1 | 53.0 | 79.6 |

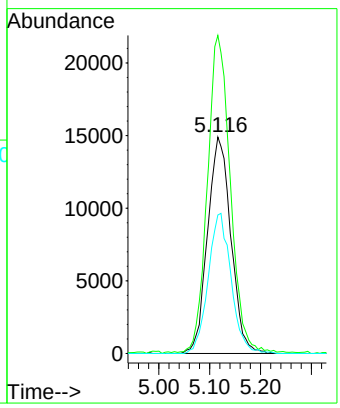





#21
trans-1,2-Dichloroethene
Concen: 21.482 ug/l
RT: 5.116 min Scan# 55
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 96 Resp: 47558

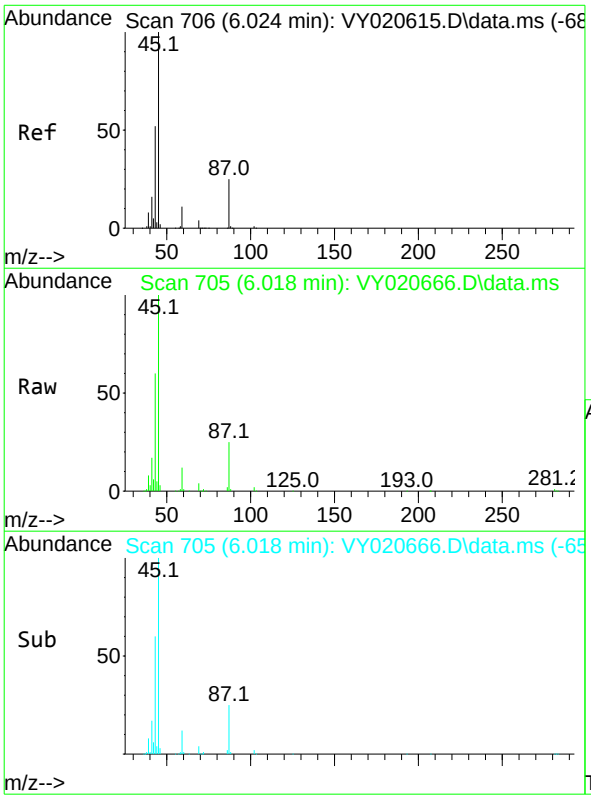
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.4 | 113.7 | 170.5 |
| 98 | 64.0 | 51.7 | 77.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

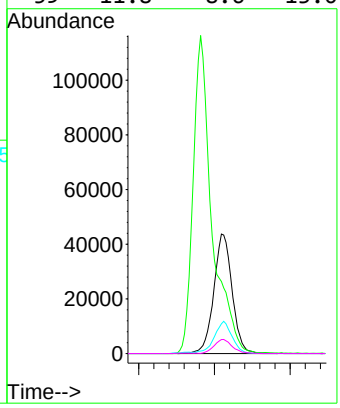
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

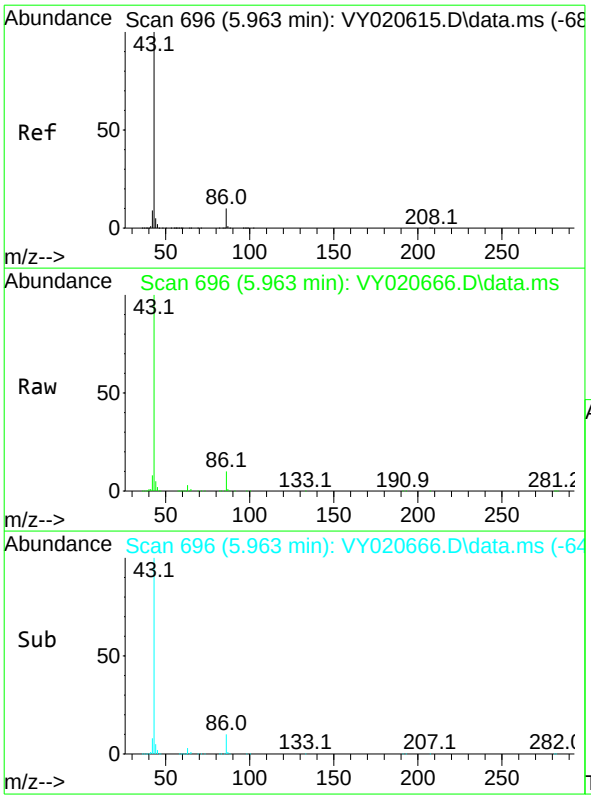



#22
Diisopropyl ether
Concen: 20.998 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 45 Resp: 147396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.8 | 42.6 | 64.0 |
| 87 | 24.9 | 20.6 | 31.0 |
| 59 | 11.8 | 8.6 | 13.0 |

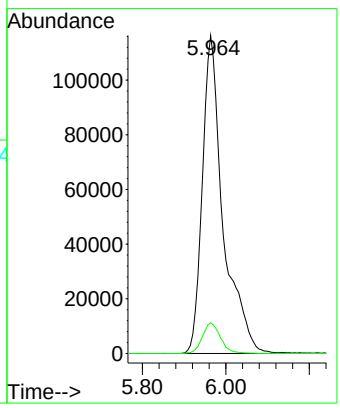





#23
Vinyl Acetate
Concen: 100.993 ug/l
RT: 5.963 min Scan# 69
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 401517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.7 | 8.1 | 12.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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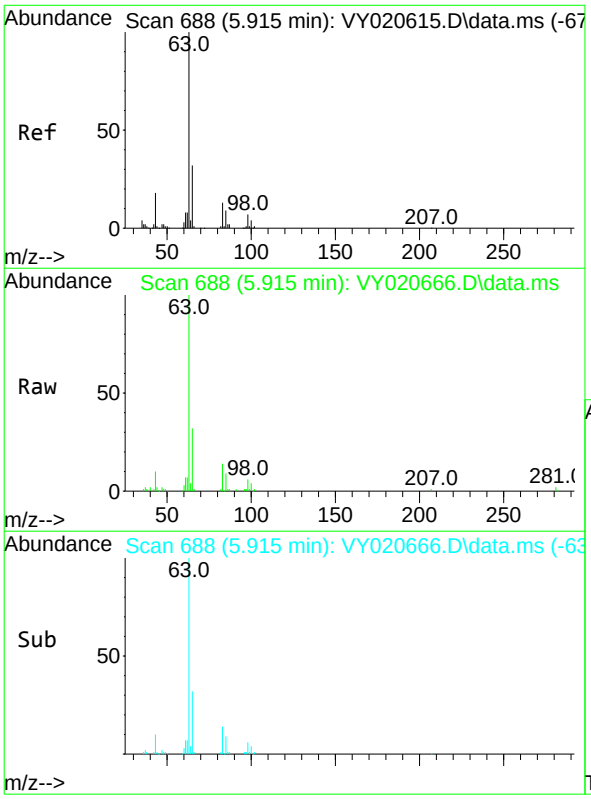
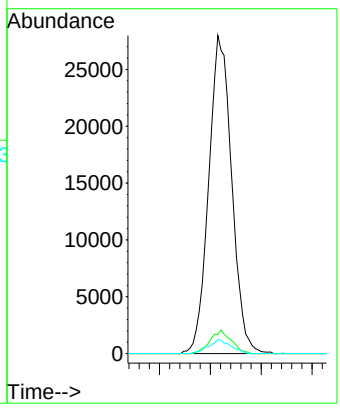
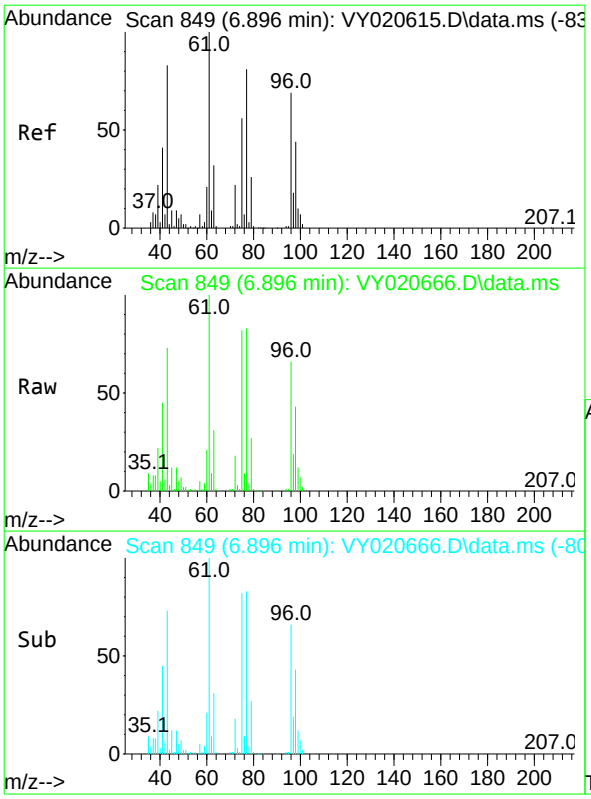



#24
1,1-Dichloroethane
Concen: 21.392 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 63 Resp: 87971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.0 | 3.4 | 10.1 |
| 100 | 4.4 | 2.1 | 6.5 |

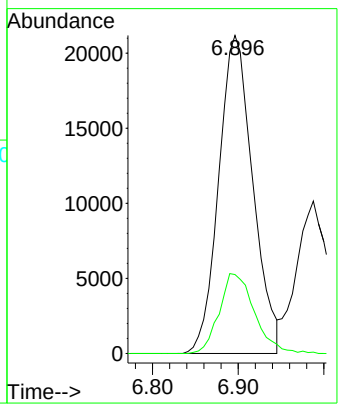





#25
2-Butanone
Concen: 91.655 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 58734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.8 | 20.6 | 31.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 12/23/2024
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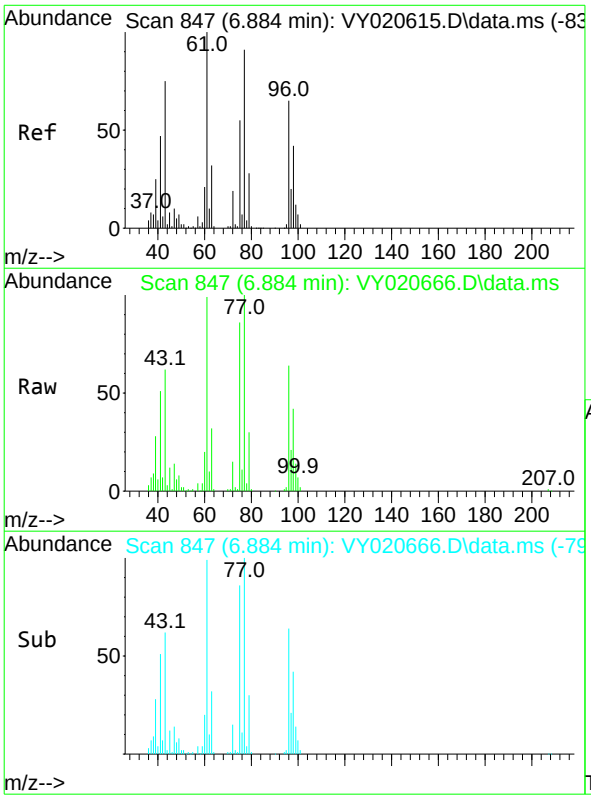
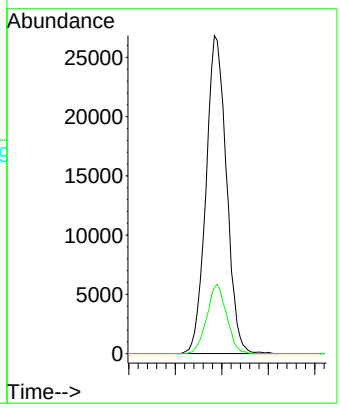
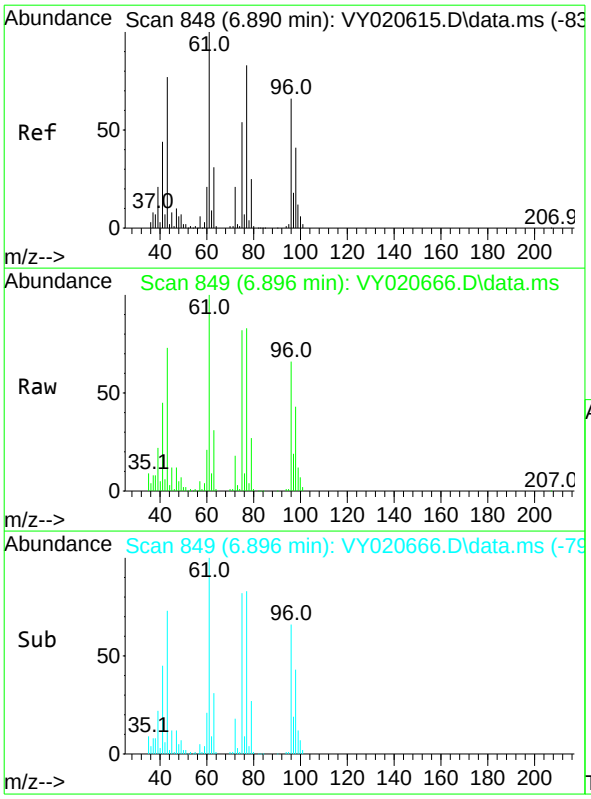



#26
2,2-Dichloropropane
Concen: 21.104 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 77 Resp: 82041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.0 | 10.9 | 32.6 |

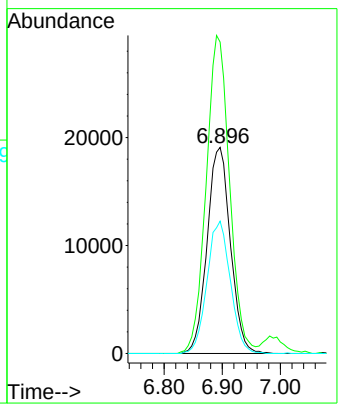





#27
cis-1,2-Dichloroethene
Concen: 20.878 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 96 Resp: 53177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.7 | 0.0 | 306.2 |
| 98 | 64.3 | 0.0 | 127.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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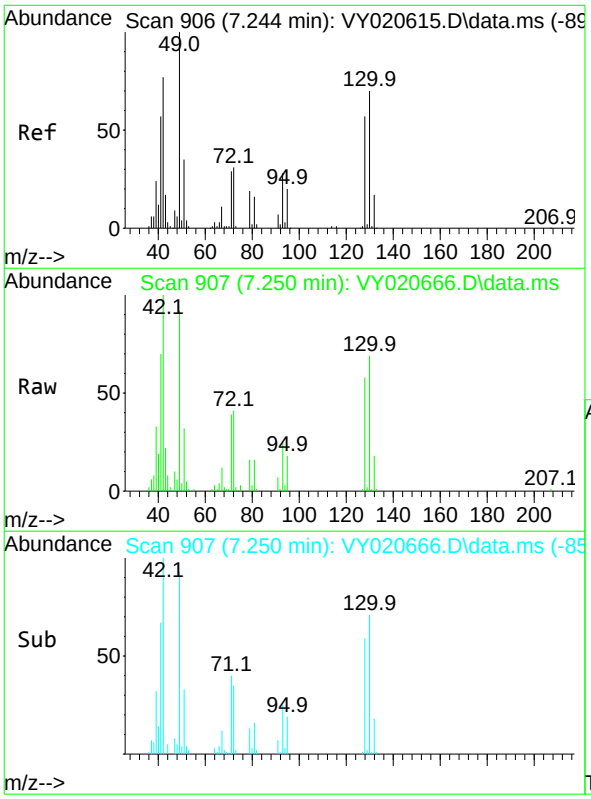
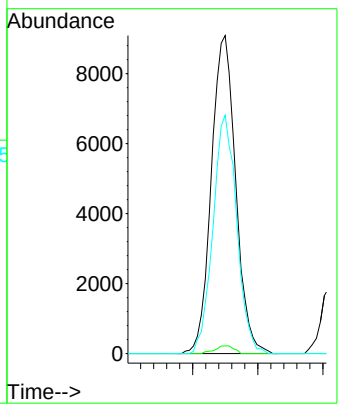
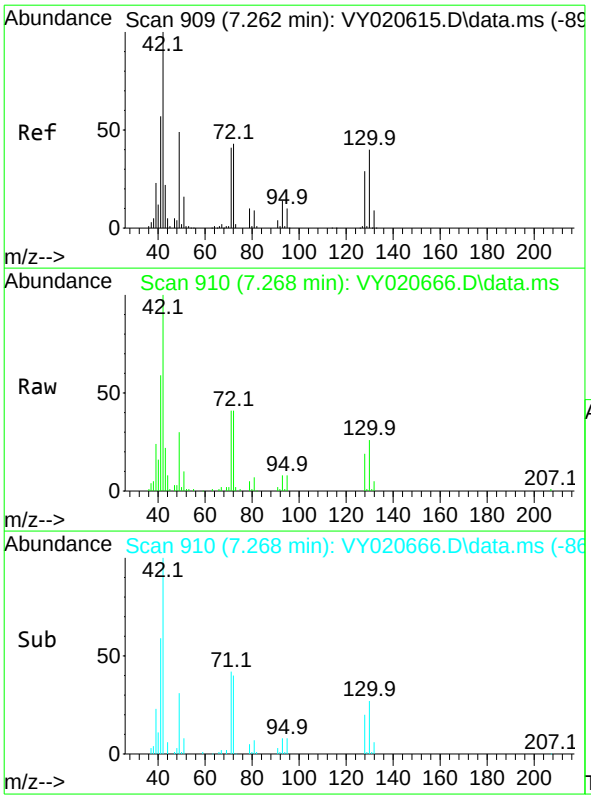



#28
Bromochloromethane
Concen: 17.030 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 49 Resp: 23622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.8 |
| 130 | 73.0 | 58.3 | 87.5 |

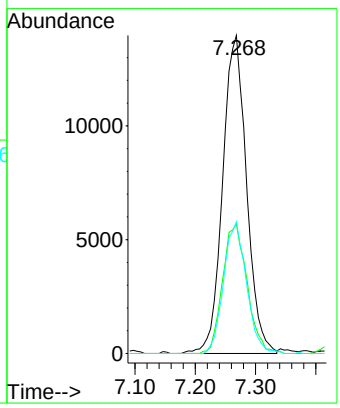





#29
Tetrahydrofuran
Concen: 95.228 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 42 Resp: 38523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.7 | 34.0 | 51.0 |
| 71 | 39.6 | 31.6 | 47.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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Reviewed By :Semsettin Yesilyurt 12/23/2024
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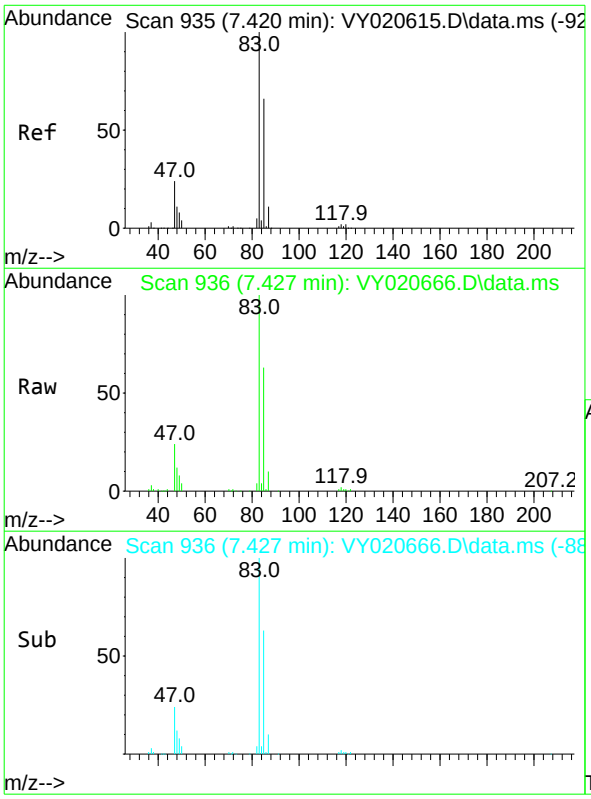
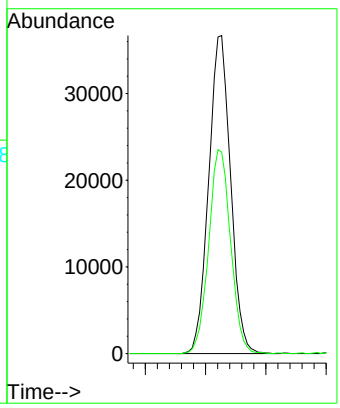
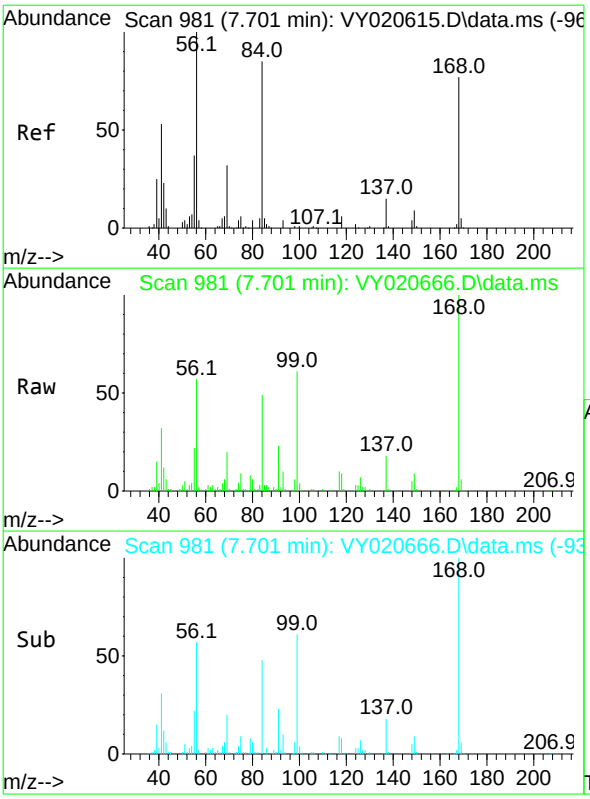



#30
Chloroform
Concen: 19.148 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.007 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 83 Resp: 92559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 52.7 | 79.1 |

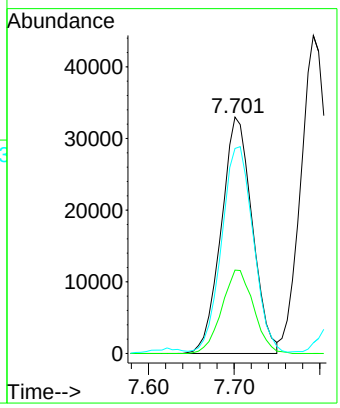





#31
Cyclohexane
Concen: 21.116 ug/l
RT: 7.701 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 56 Resp: 83030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.3 | 25.4 | 38.0 |
| 84 | 85.0 | 68.3 | 102.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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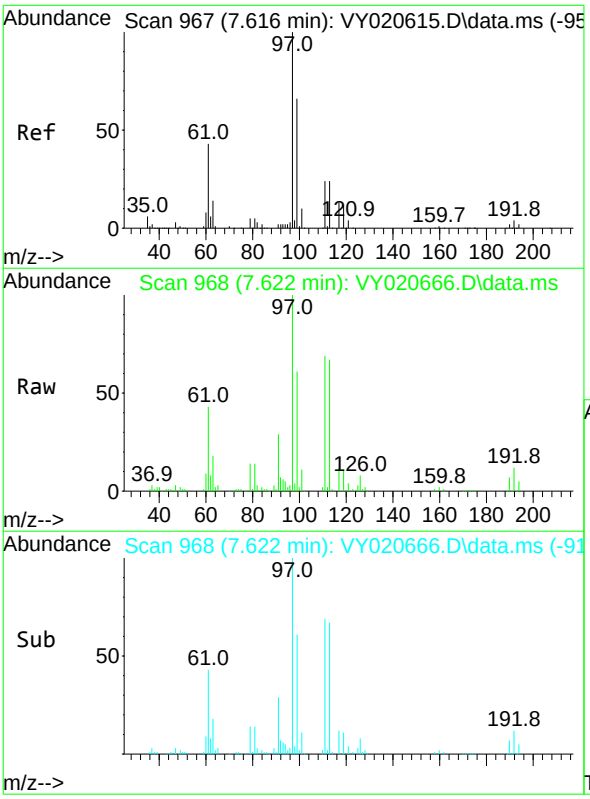
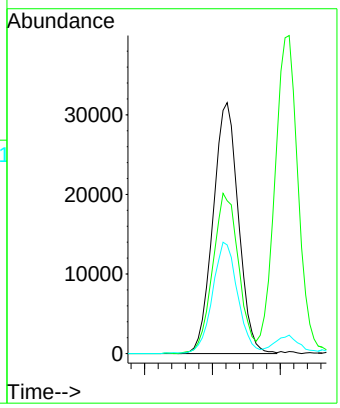
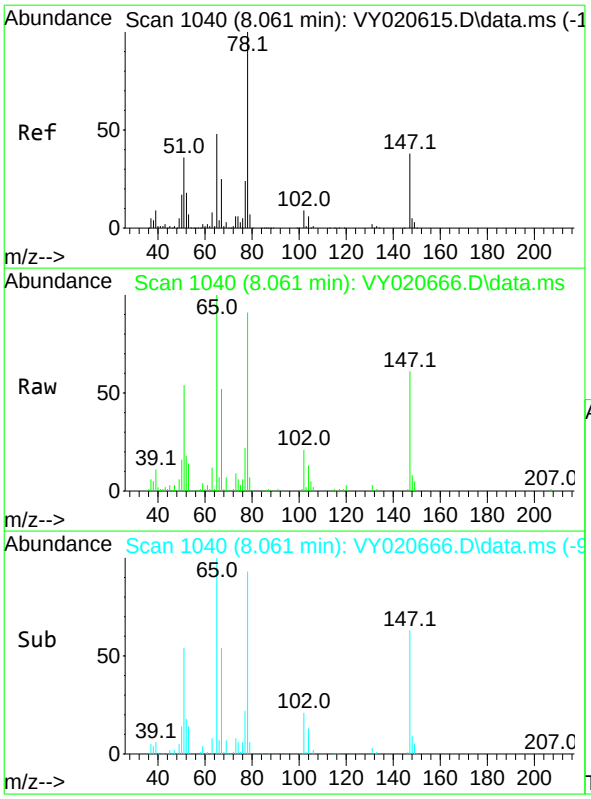



#32
1,1,1-Trichloroethane
Concen: 21.694 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 97 Resp: 81959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.2 | 51.6 | 77.4 |
| 61 | 43.3 | 34.7 | 52.1 |

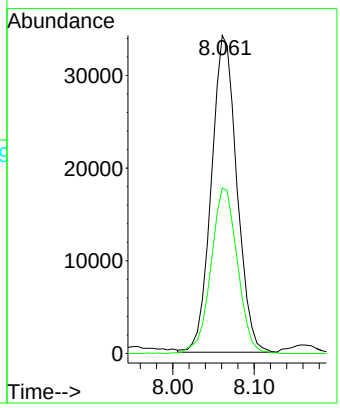





#33
1,2-Dichloroethane-d4
Concen: 43.102 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 65 Resp: 74322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.3 | 0.0 | 108.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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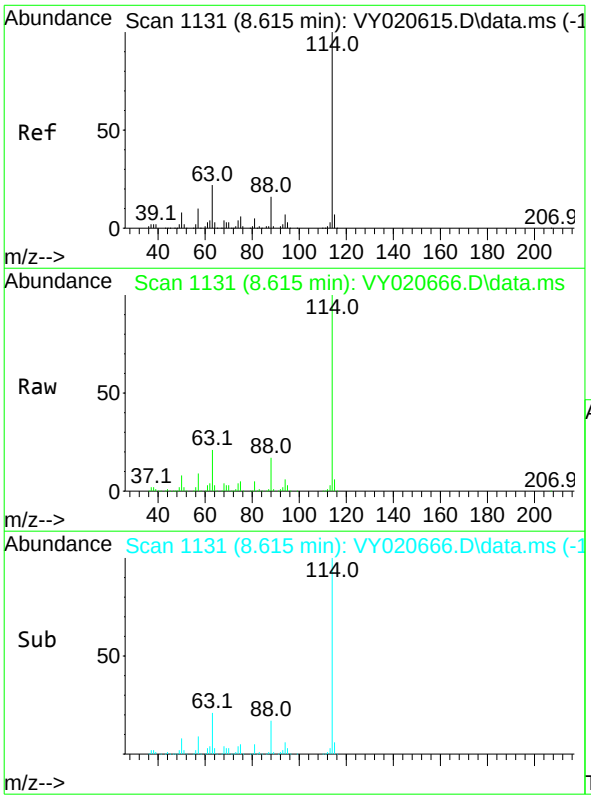
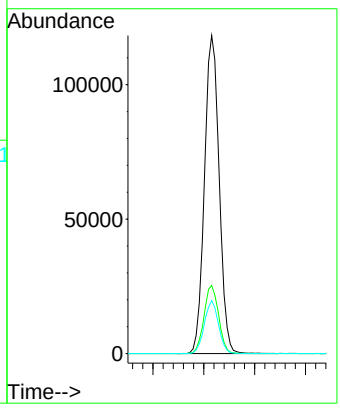
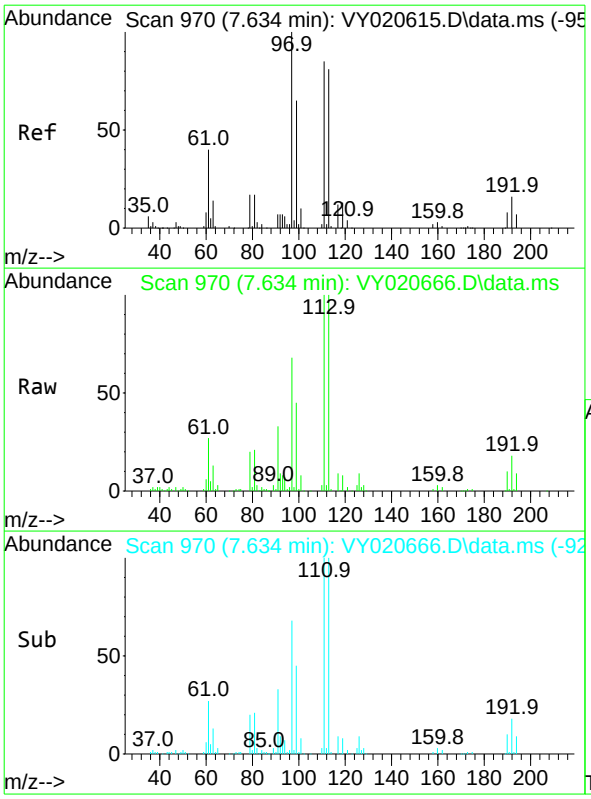



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:114 Resp: 237485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.4 | 0.0 | 44.0 |
| 88 | 16.6 | 0.0 | 32.8 |

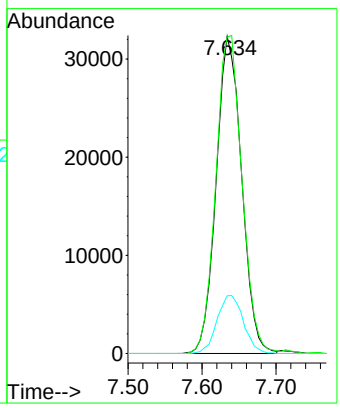





#35
Dibromofluoromethane
Concen: 46.118 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:113 Resp: 77189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 82.9 | 124.3 |
| 192 | 18.9 | 15.7 | 23.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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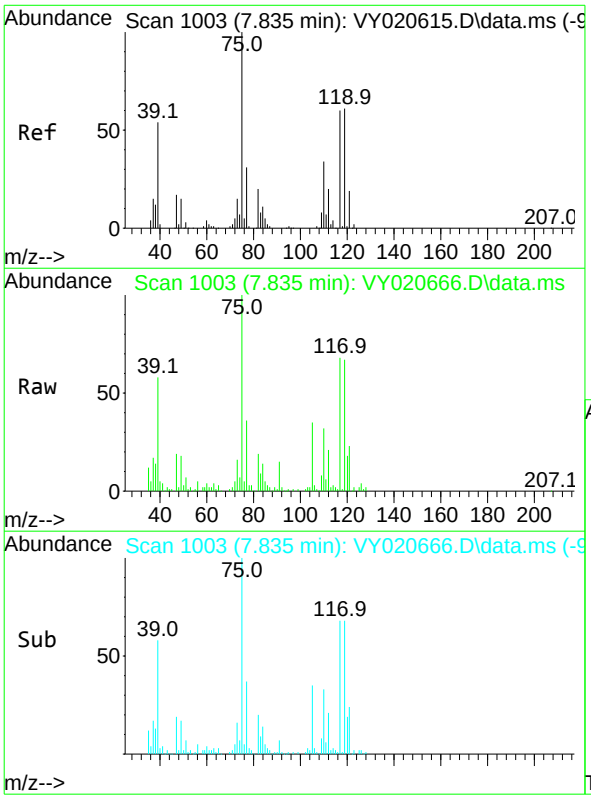
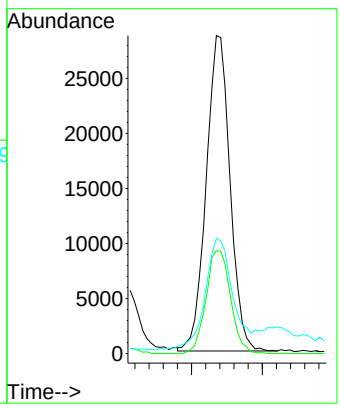
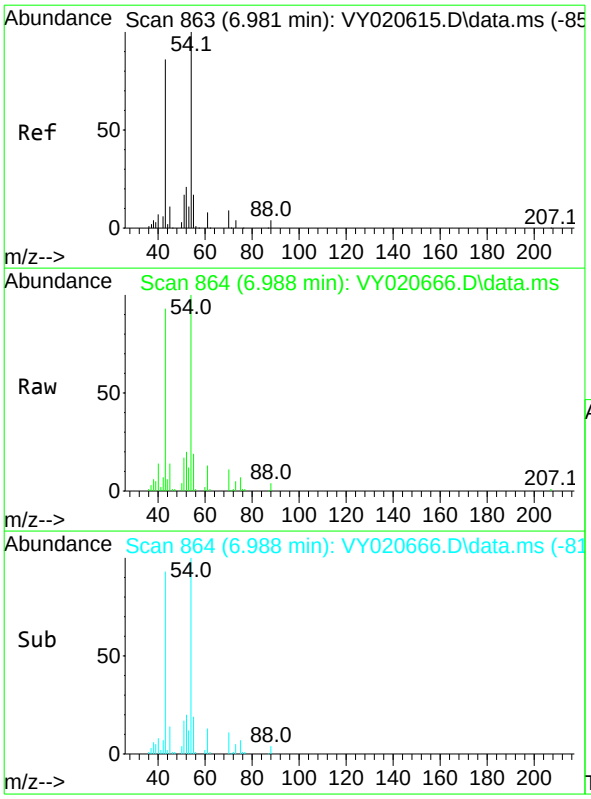



#36
1,1-Dichloropropene
Concen: 21.973 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 75 Resp: 67060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.6 | 16.8 | 50.4 |
| 77 | 41.1 | 25.0 | 37.6# |

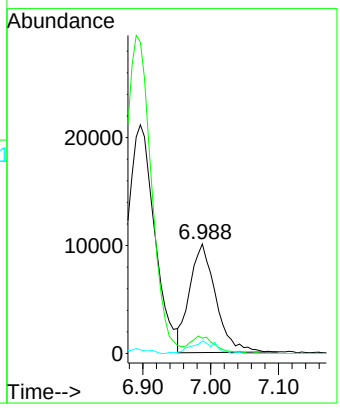





#37
Ethyl Acetate
Concen: 18.775 ug/l
RT: 6.988 min Scan# 86
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 26953

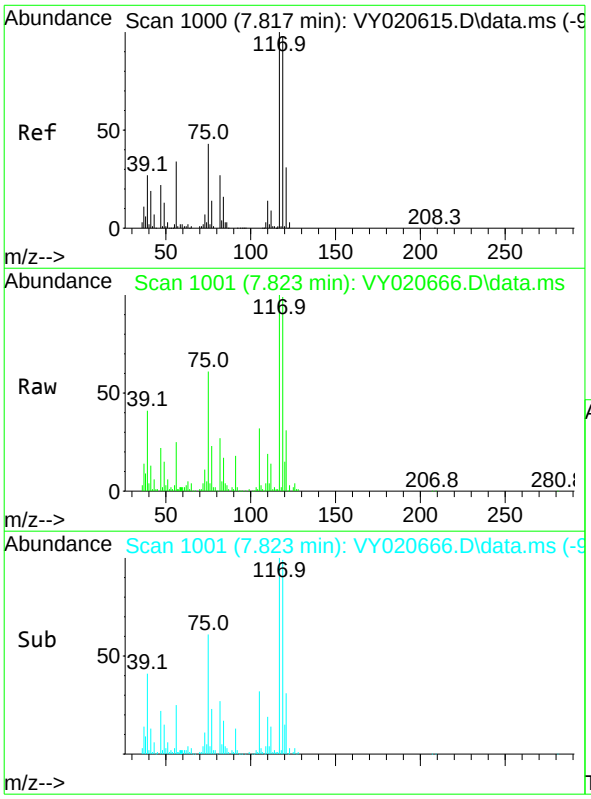
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.3 | 11.0 | 16.4 |
| 70 | 10.7 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

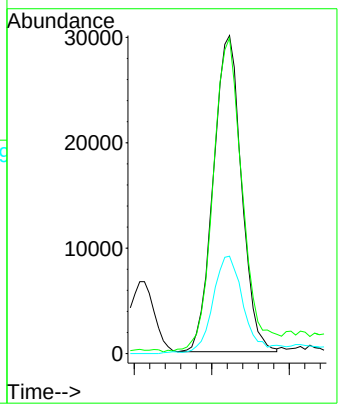
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

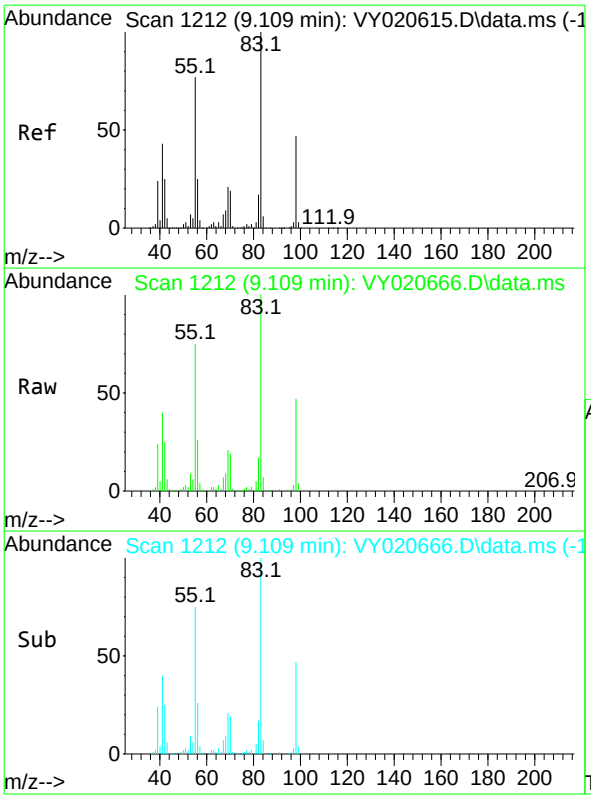



#38
Carbon Tetrachloride
Concen: 22.399 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:117 Resp: 75634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.4 | 78.3 | 117.5 |
| 121 | 30.3 | 25.1 | 37.7 |

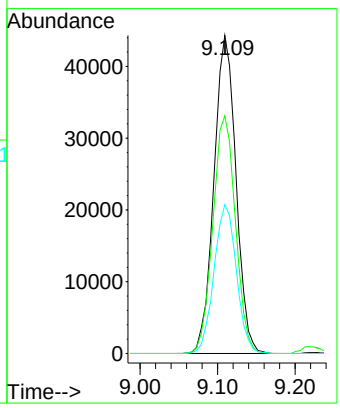





#39
Methylcyclohexane
Concen: 22.028 ug/l
RT: 9.109 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 83 Resp: 87624

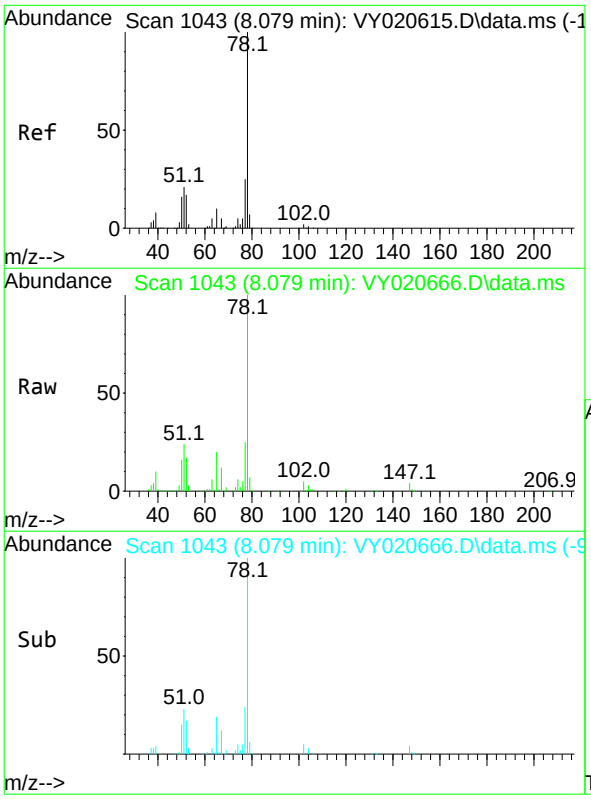
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 74.7 | 61.4 | 92.0 |
| 98 | 46.8 | 37.3 | 55.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

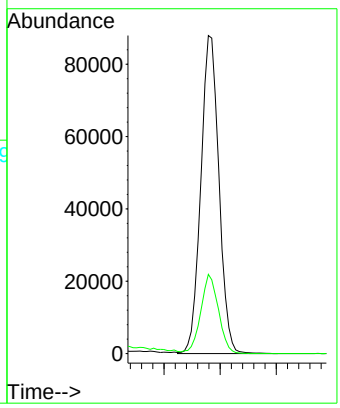
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

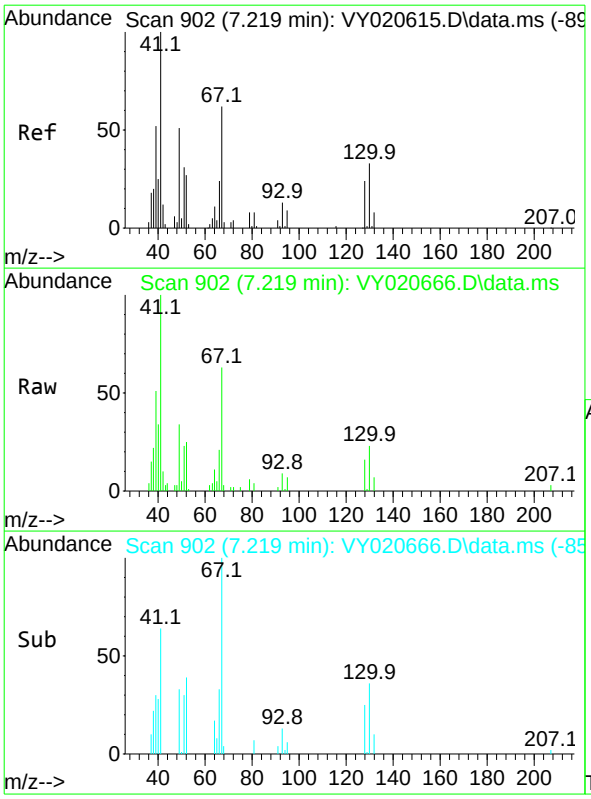



#40
Benzene
Concen: 22.058 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 78 Resp: 197331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.9 | 20.1 | 30.1 |

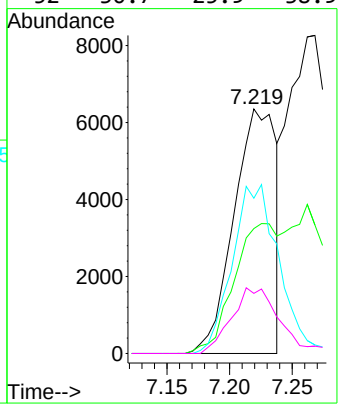





#41
Methacrylonitrile
Concen: 19.610 ug/l
RT: 7.219 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 41 Resp: 14883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 54.3 | 53.6 | 80.4 |
| 67 | 76.1 | 62.0 | 93.0 |
| 52 | 30.7 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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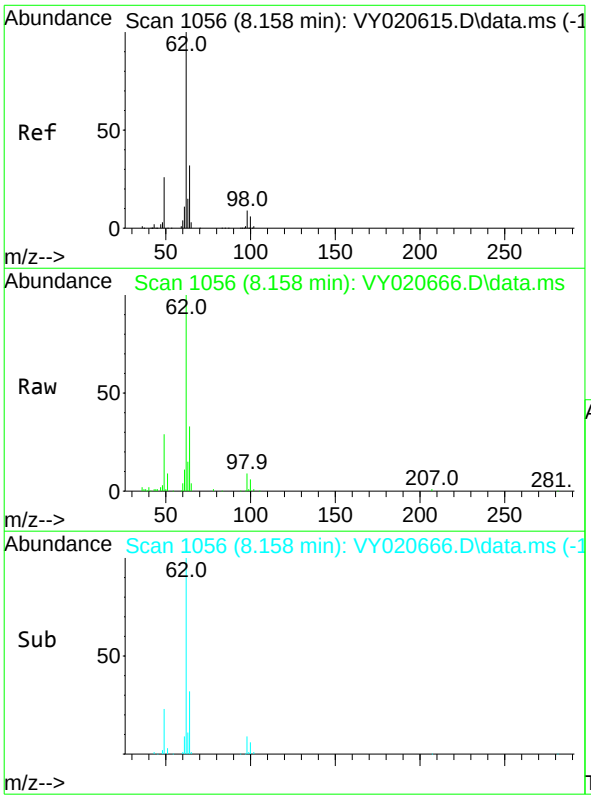
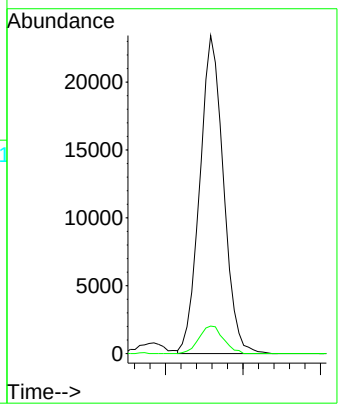
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

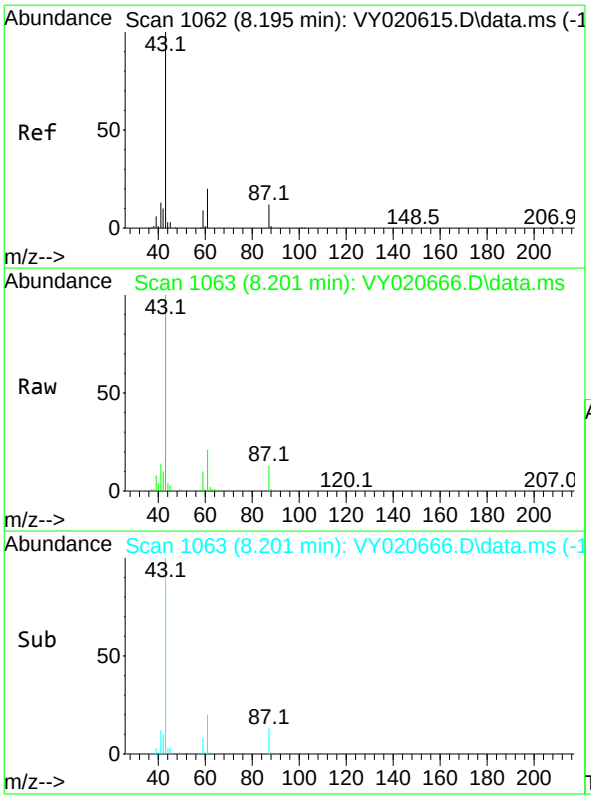



#42
1,2-Dichloroethane
Concen: 20.991 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 62 Resp: 49803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.9 | 0.0 | 18.0 |

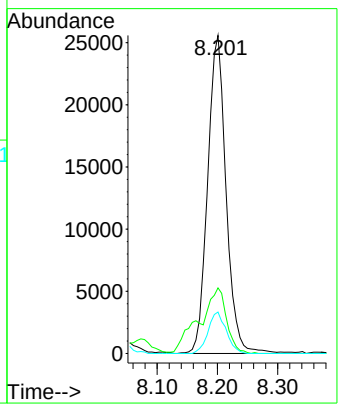





#43
Isopropyl Acetate
Concen: 19.989 ug/l
RT: 8.201 min Scan# 10
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 54326

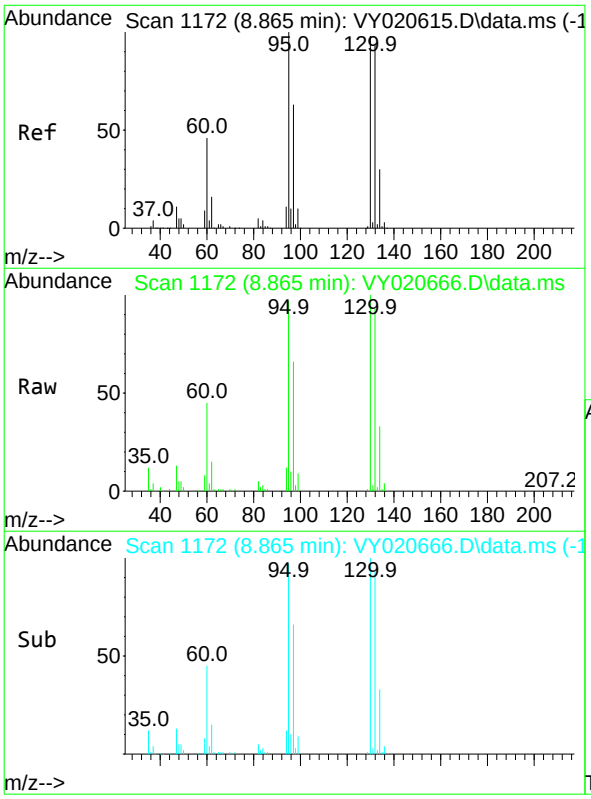
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.6 | 23.8 | 35.6 |
| 87 | 12.8 | 10.2 | 15.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

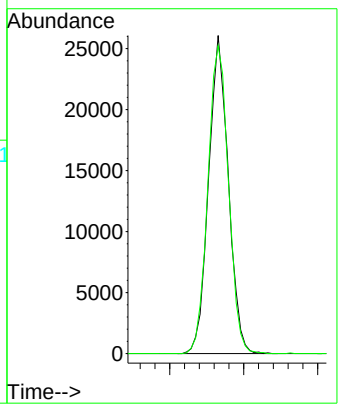
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

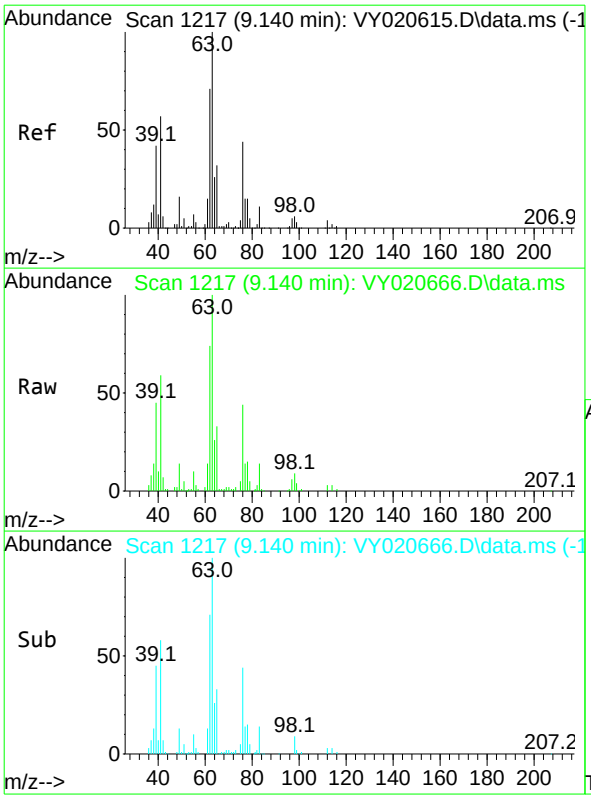



#44
Trichloroethene
Concen: 21.921 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:130 Resp: 48185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 96.8 | 0.0 | 203.2 |

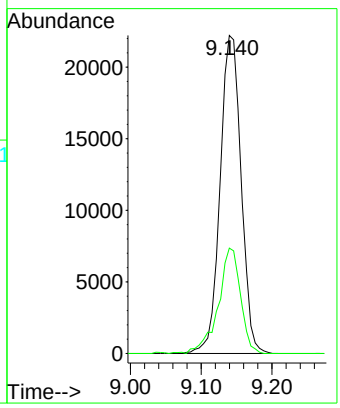





#45
1,2-Dichloropropane
Concen: 21.896 ug/l
RT: 9.140 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 63 Resp: 45779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.1 | 25.9 | 38.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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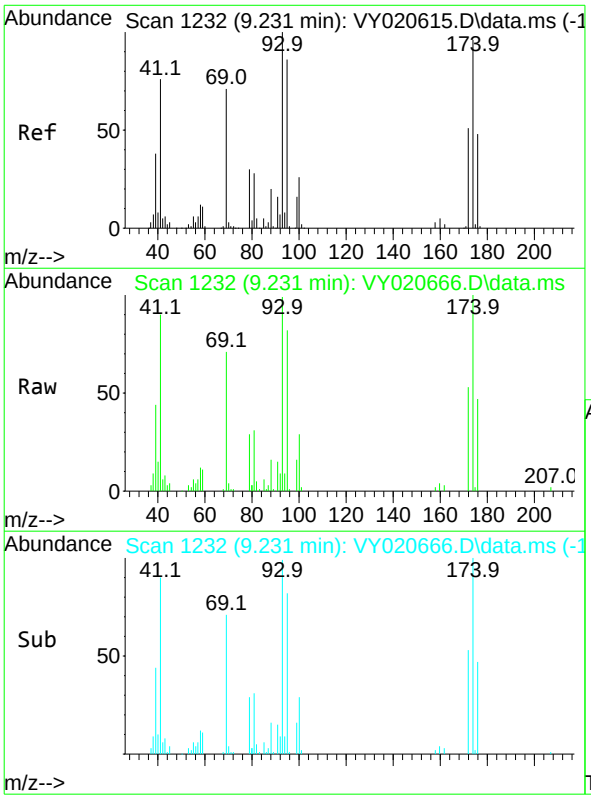
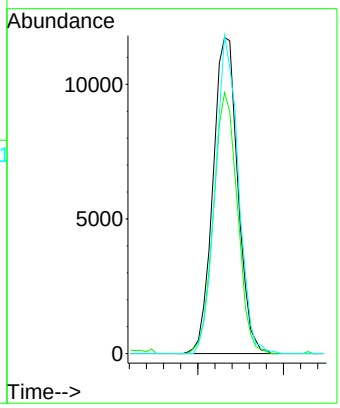
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

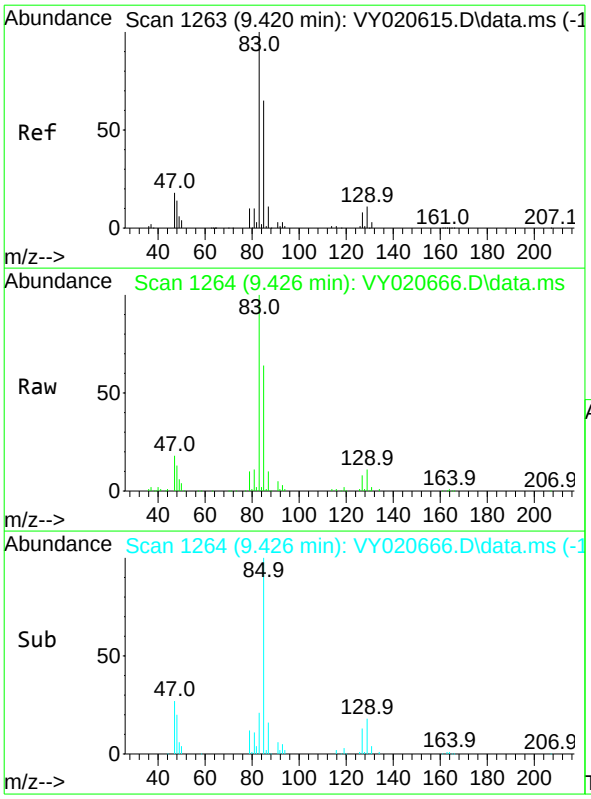



#46
Dibromomethane
Concen: 21.396 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 93 Resp: 23641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 79.3 | 66.7 | 100.1 |
| 174 | 93.6 | 77.8 | 116.6 |

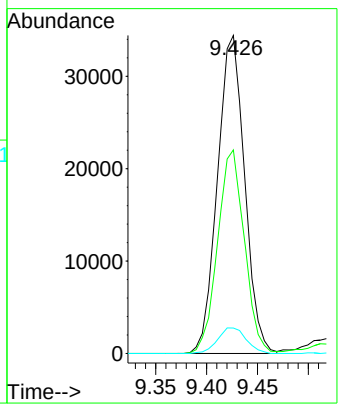





#47
Bromodichloromethane
Concen: 21.429 ug/l
RT: 9.426 min Scan# 12
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 83 Resp: 63960

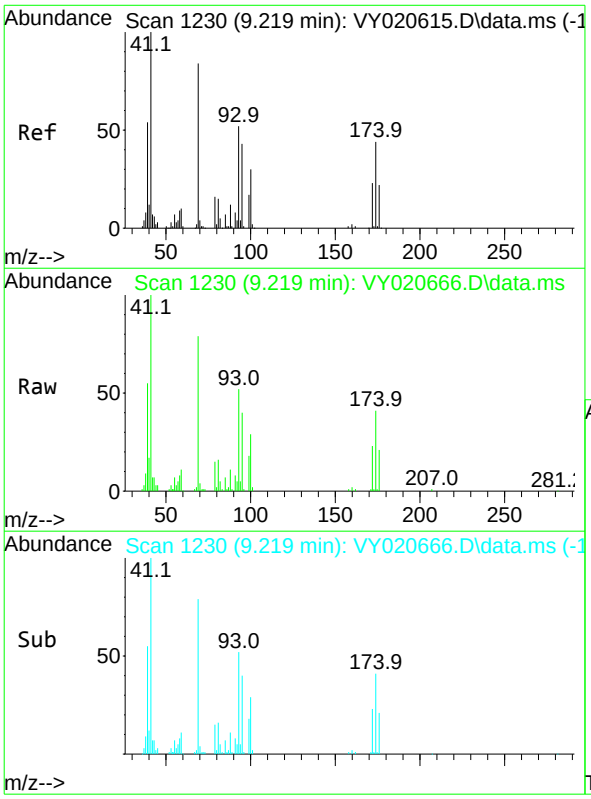
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 52.1 | 78.1 |
| 127 | 8.0 | 6.7 | 10.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations APPROVED**

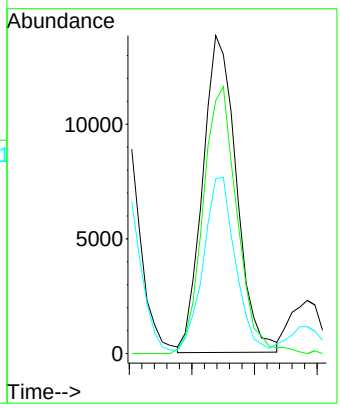
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

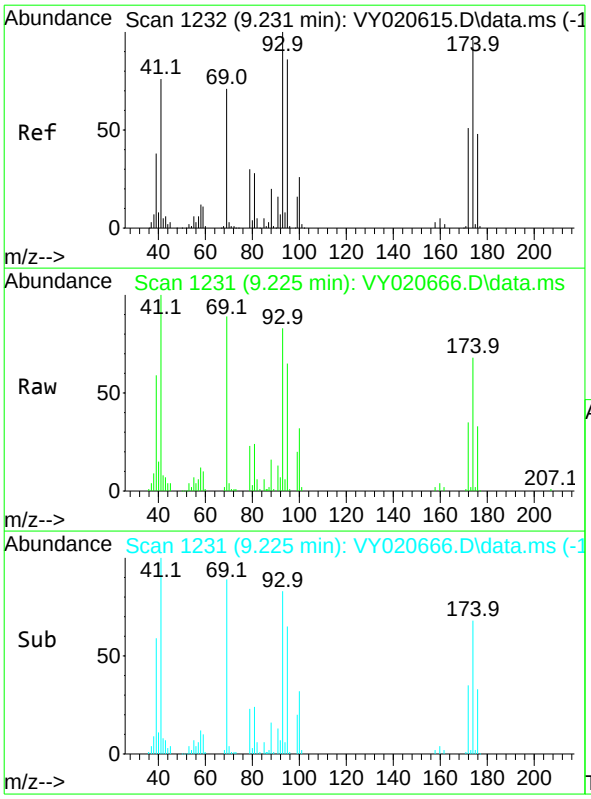



#48
Methyl methacrylate
Concen: 20.050 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 41 Resp: 25905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.6 | 67.2 | 100.8 |
| 39 | 51.4 | 42.2 | 63.4 |






#49
1,4-Dioxane
Concen: 370.747 ug/l
RT: 9.225 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 88 Resp: 4698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 45.8 | 27.6 | 41.4# |
| 58 | 78.0 | 61.7 | 92.5 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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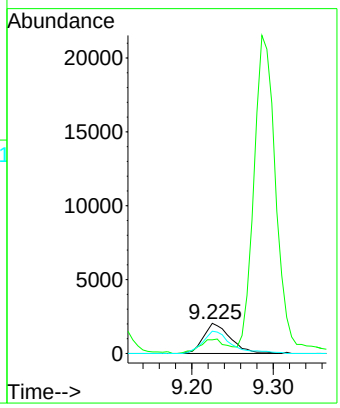
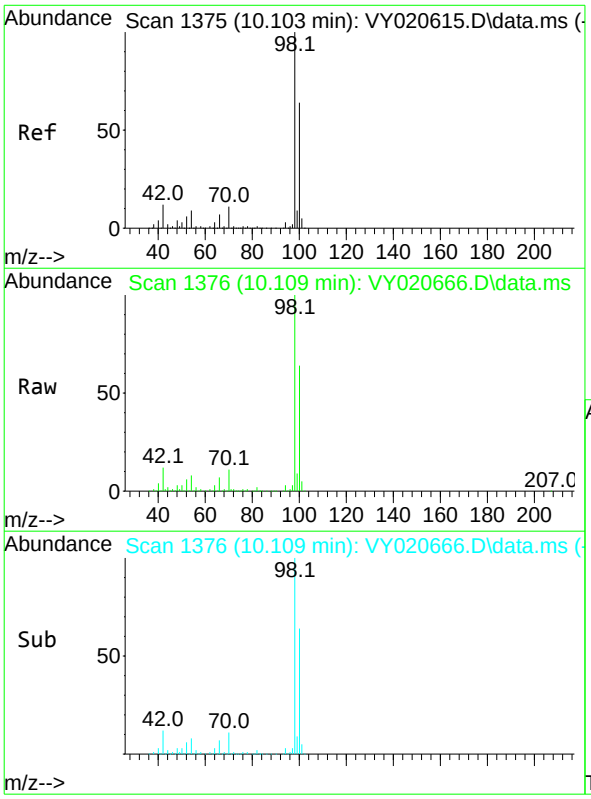
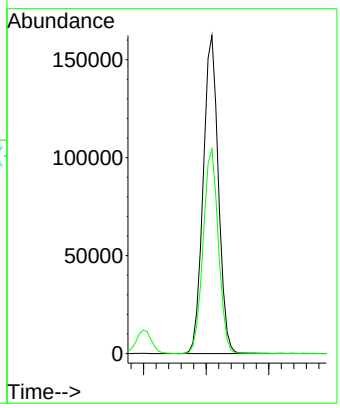


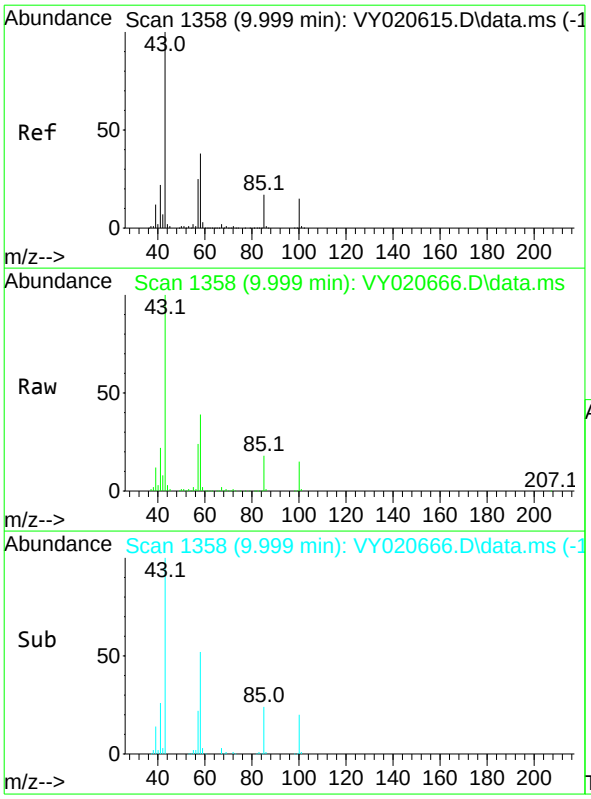




#50
Toluene-d8
Concen: 46.643 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 98 Resp: 273250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.1 | 78.1 |

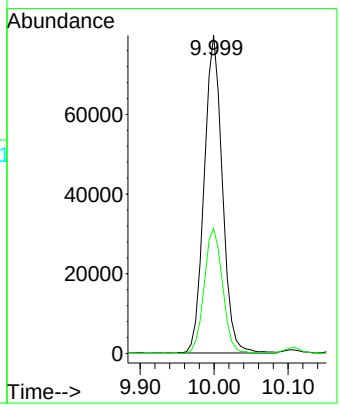





#51
4-Methyl-2-Pentanone
Concen: 94.726 ug/l
RT: 9.999 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 135892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.9 | 31.4 | 47.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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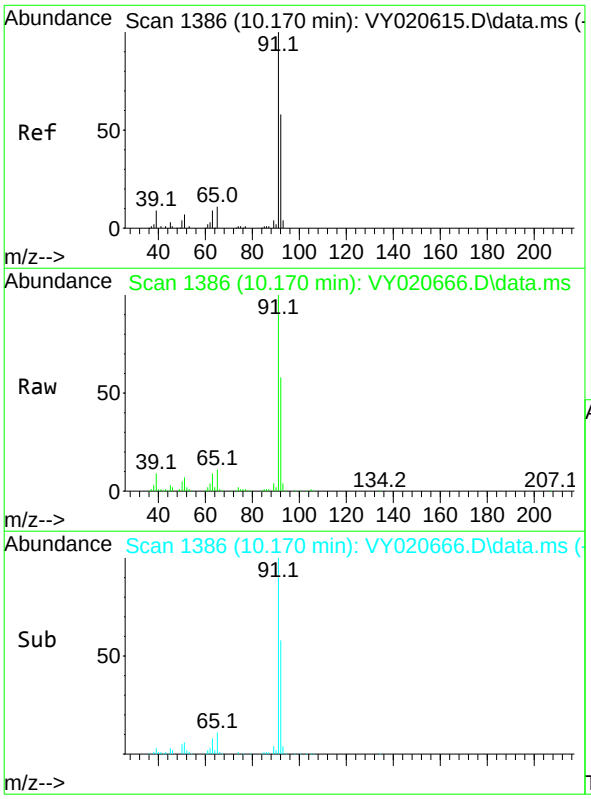
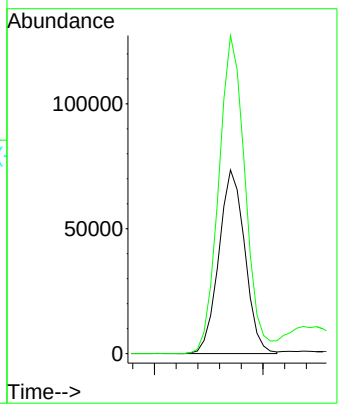
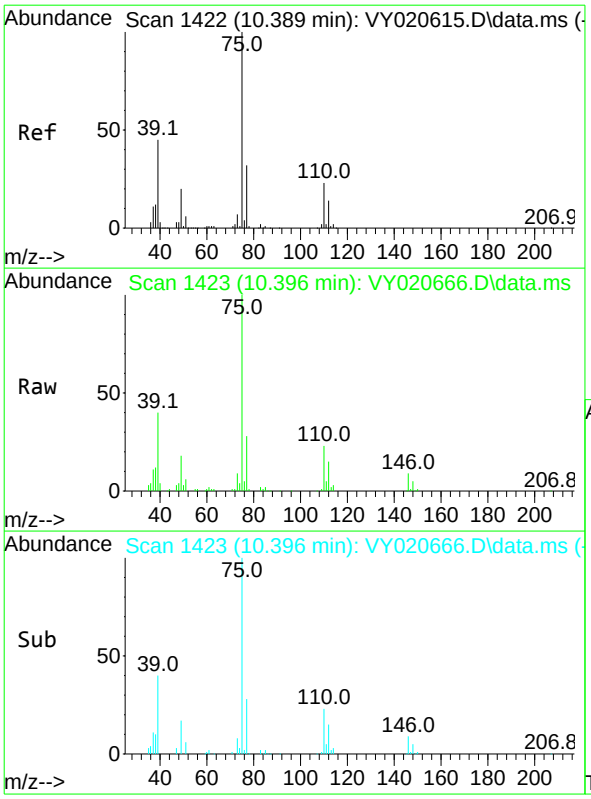



#52
Toluene
Concen: 22.055 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 92 Resp: 122615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.0 | 137.4 | 206.0 |

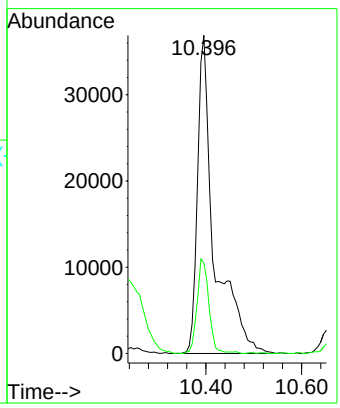





#53
t-1,3-Dichloropropene
Concen: 32.354 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 75 Resp: 89982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 28.5 | 25.4 | 38.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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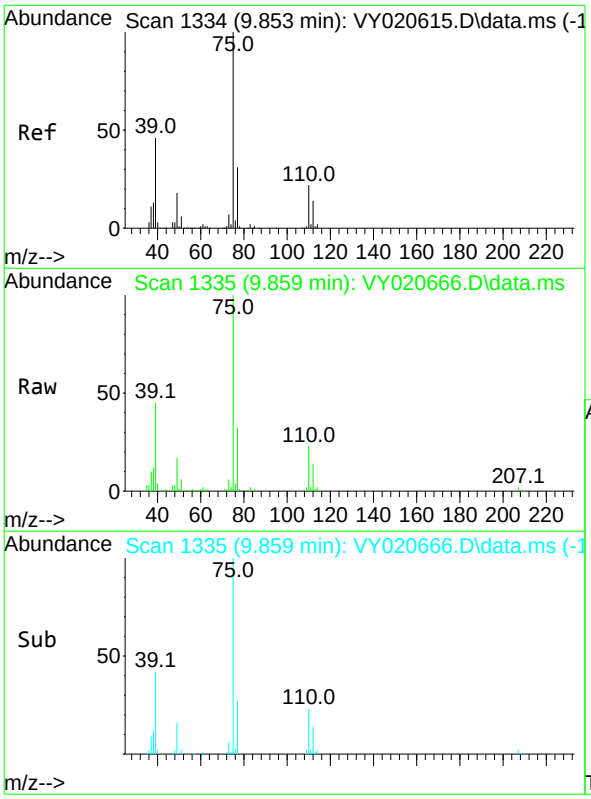
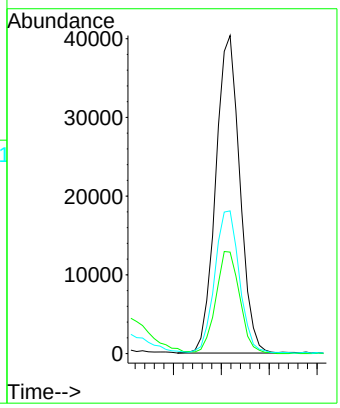
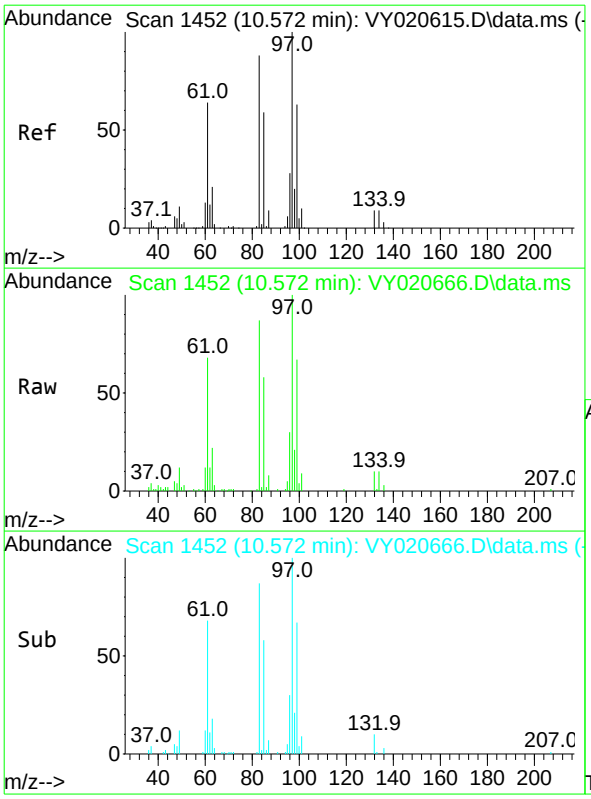



#54
cis-1,3-Dichloropropene
Concen: 21.413 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 75 Resp: 70570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 24.6 | 36.8 |
| 39 | 44.6 | 36.4 | 54.6 |

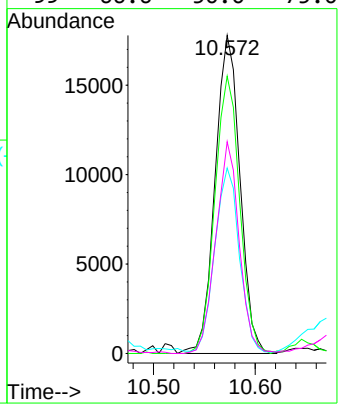





#55
1,1,2-Trichloroethane
Concen: 20.669 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 97 Resp: 30195

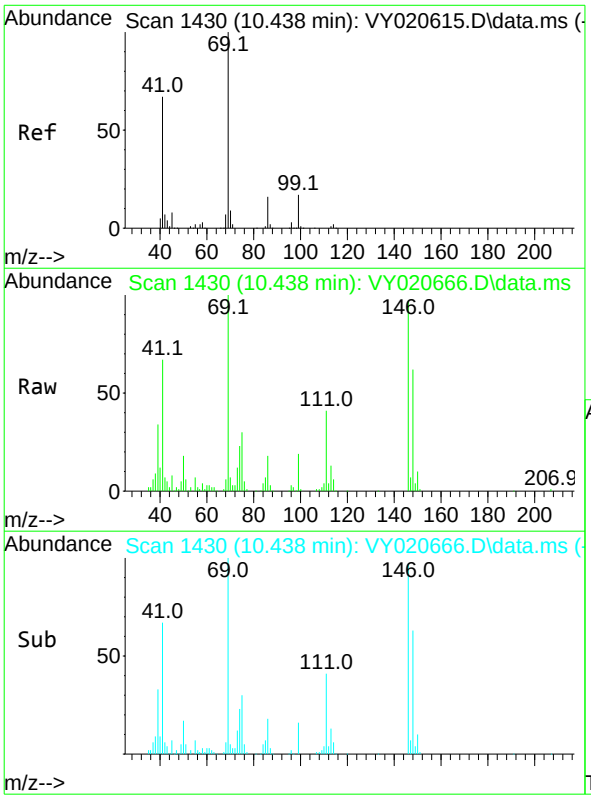
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.2 | 70.4 | 105.6 |
| 85 | 57.7 | 47.2 | 70.8 |
| 99 | 66.6 | 50.0 | 75.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

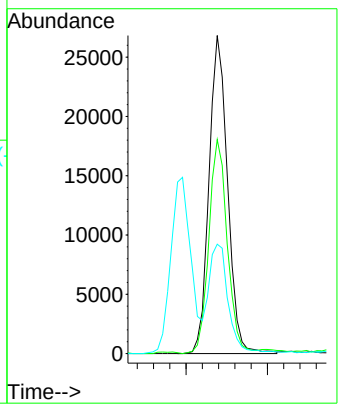
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

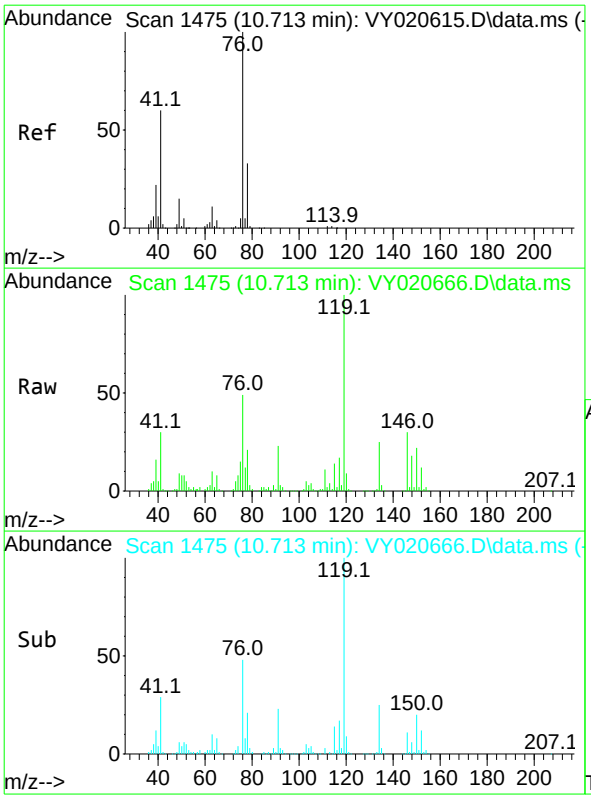



#56
Ethyl methacrylate
Concen: 20.060 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 69 Resp: 42515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.9 | 54.0 | 81.0 |
| 39 | 35.1 | 27.9 | 41.9 |






#57
1,3-Dichloropropane
Concen: 25.621 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 76 Resp: 66722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 25.8 | 38.8# |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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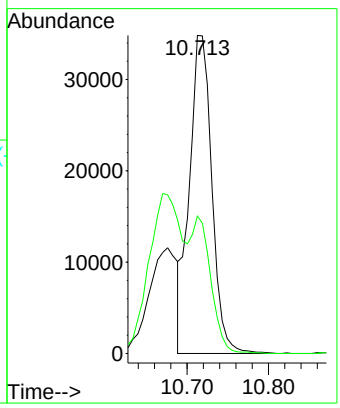
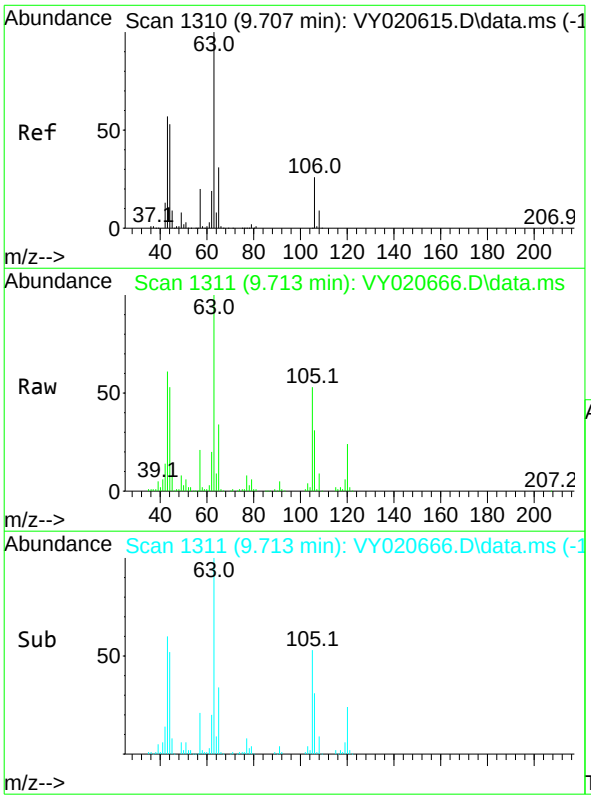
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

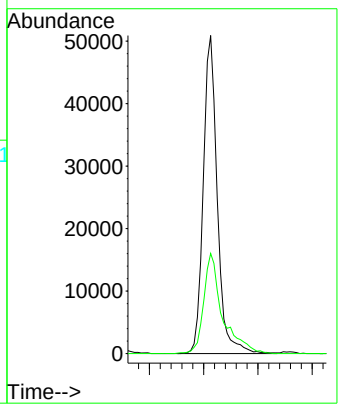


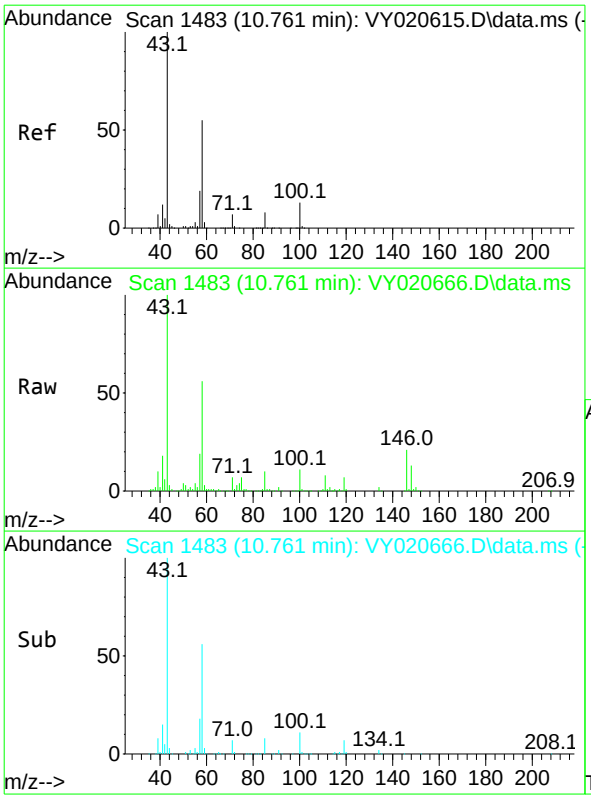




#58
2-Chloroethyl Vinyl ether
Concen: 102.533 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 63 Resp: 91434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 42.0 | 21.5 | 32.3# |

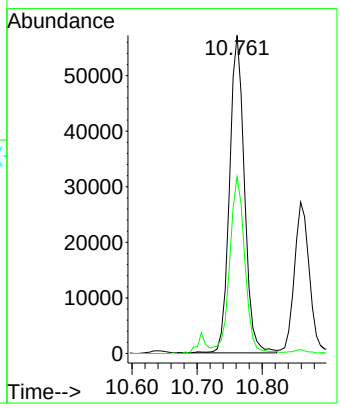





#59
2-Hexanone
Concen: 98.464 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 90691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.8 | 27.2 | 81.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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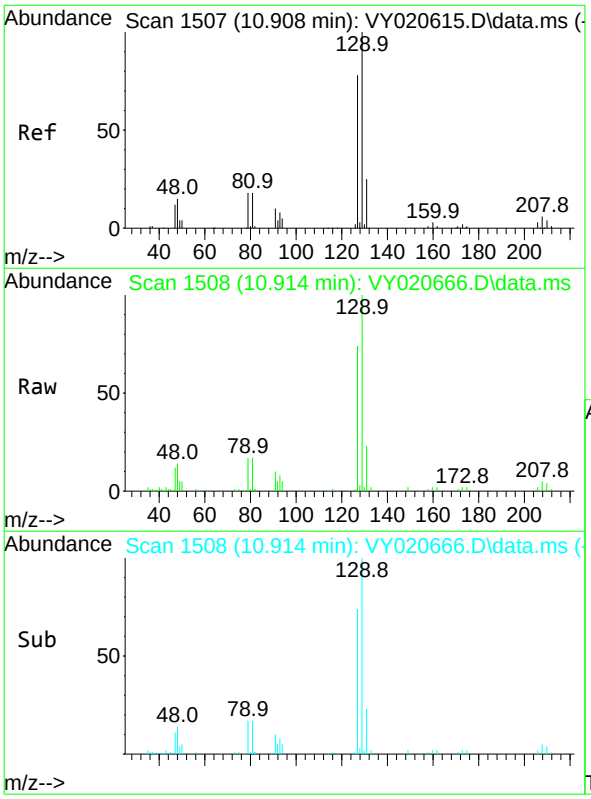
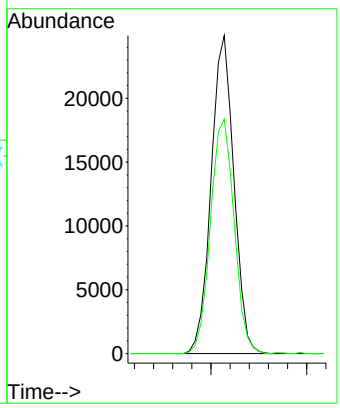
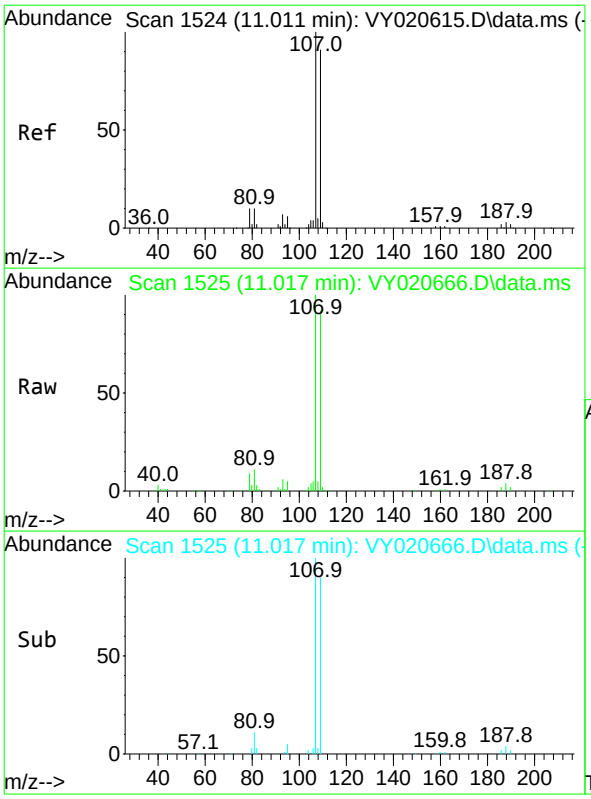



#60
Dibromochloromethane
Concen: 21.080 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:129 Resp: 41185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.6 | 38.1 | 114.3 |

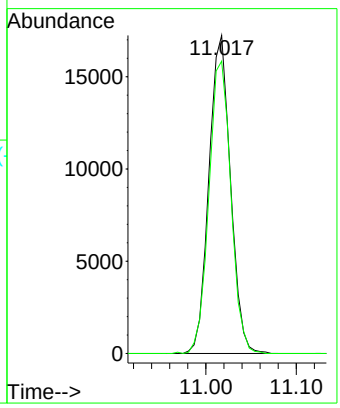





#61
1,2-Dibromoethane
Concen: 21.018 ug/l
RT: 11.017 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:107 Resp: 28561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.7 | 75.4 | 113.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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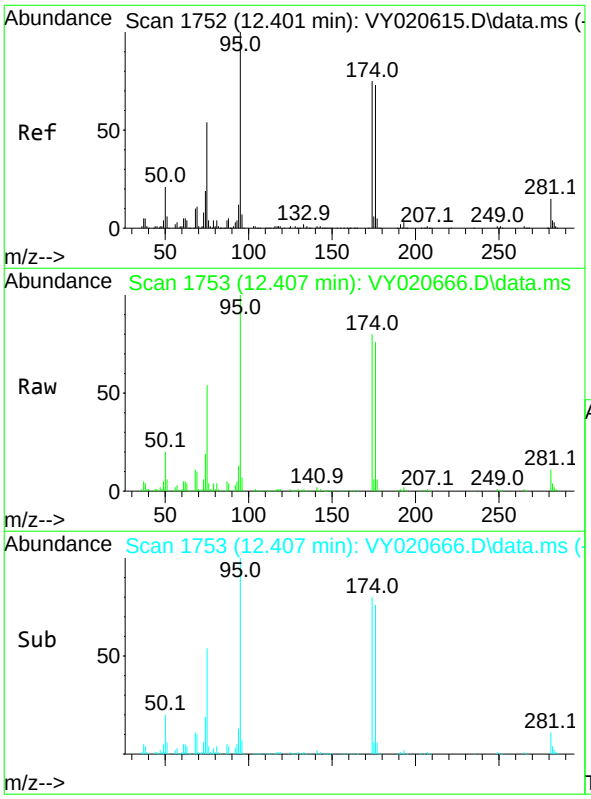
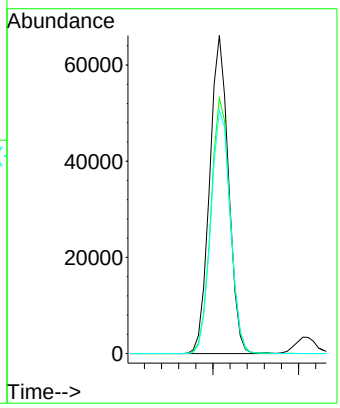
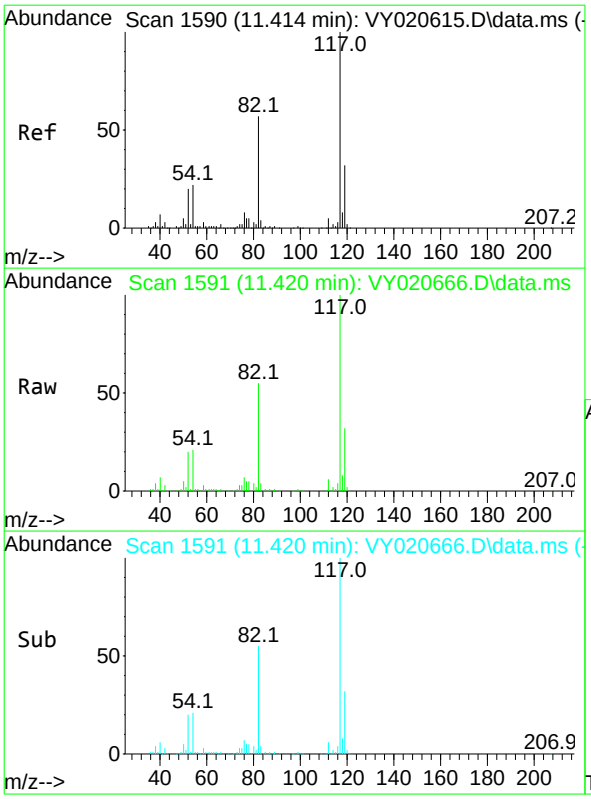



#62
4-Bromofluorobenzene
Concen: 44.220 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 95 Resp: 101336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.8 | 0.0 | 161.8 |
| 176 | 79.2 | 0.0 | 156.6 |

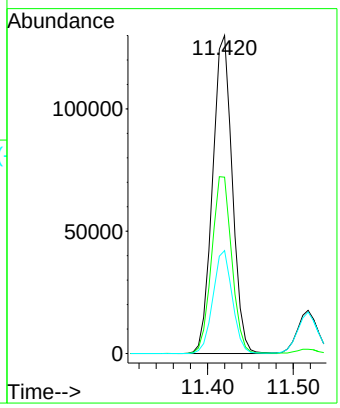





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:117 Resp: 207752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.4 | 45.8 | 68.6 |
| 119 | 32.4 | 25.3 | 37.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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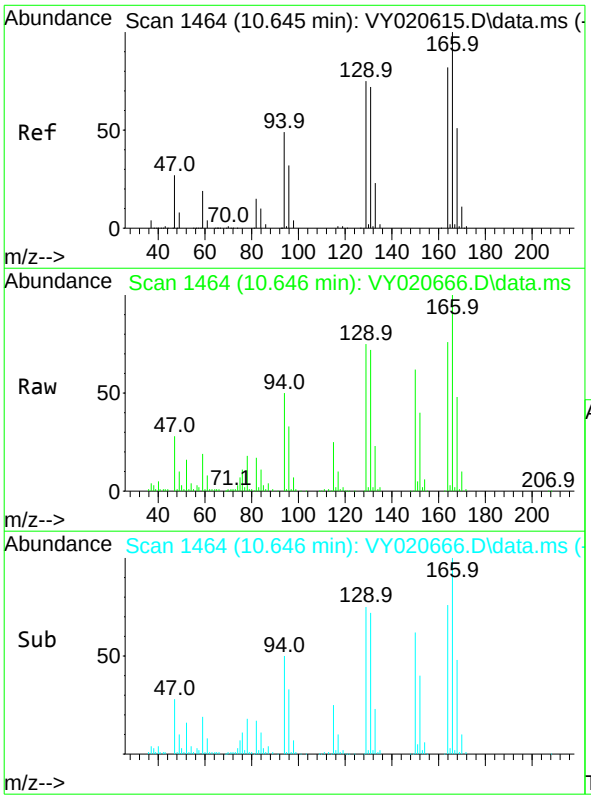
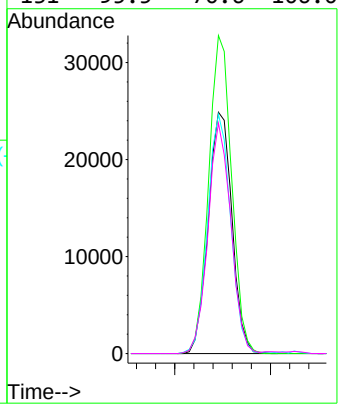
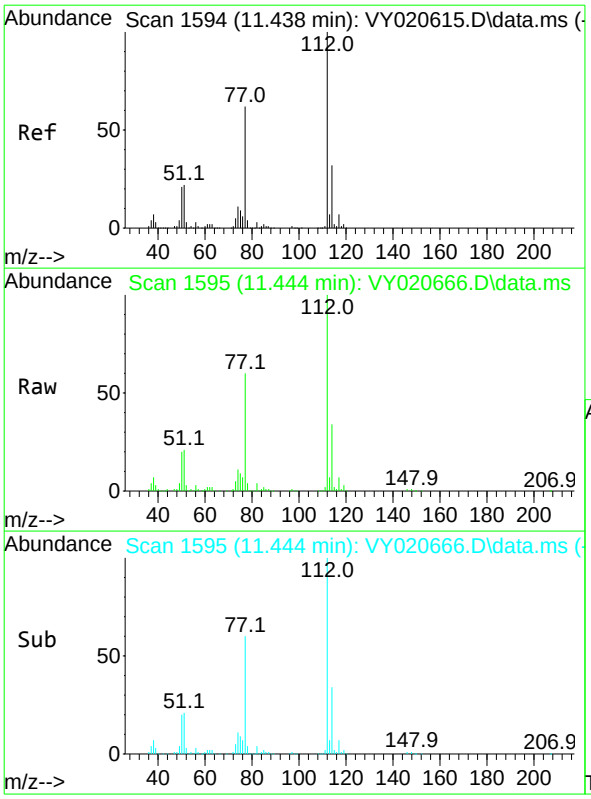



#64
Tetrachloroethene
Concen: 21.919 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:164 Resp: 42833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.8 | 97.9 | 146.9 |
| 129 | 99.2 | 73.4 | 110.0 |
| 131 | 95.5 | 70.6 | 106.0 |

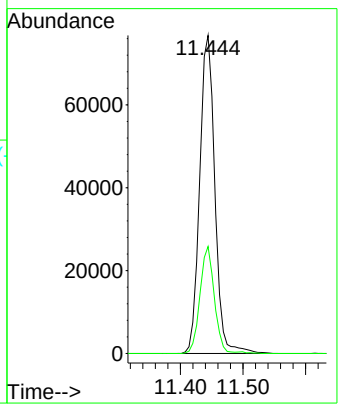





#65
Chlorobenzene
Concen: 22.264 ug/l
RT: 11.444 min Scan# 15
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:112 Resp: 129331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.6 | 26.0 | 39.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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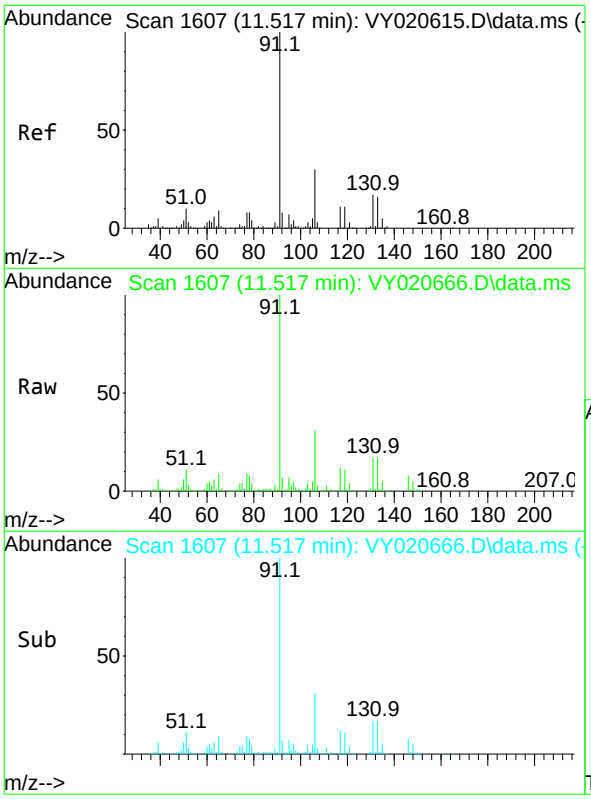
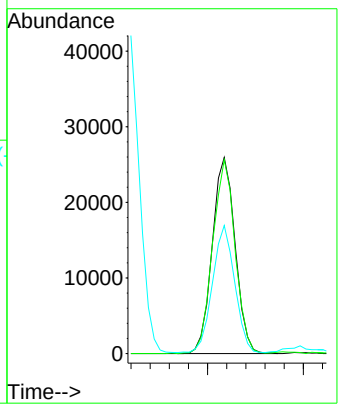
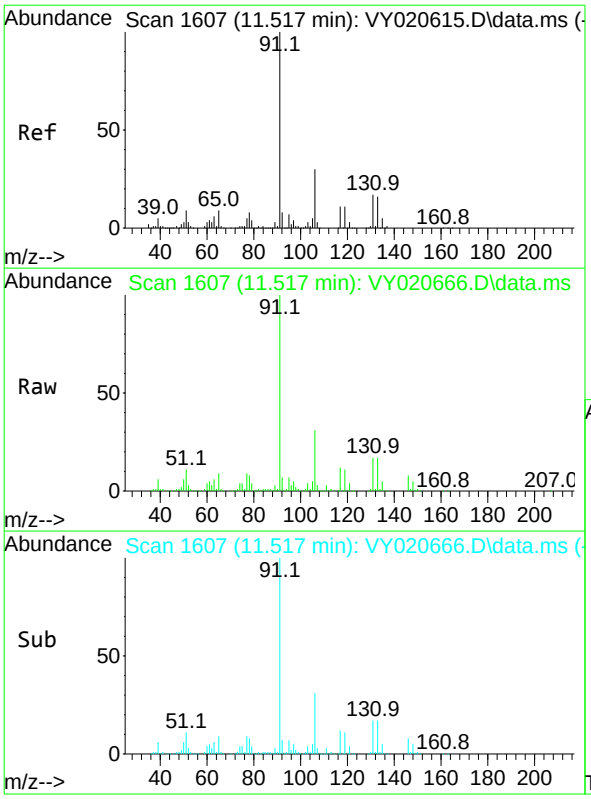



#66
1,1,1,2-Tetrachloroethane
Concen: 21.675 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:131 Resp: 43055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.1 | 46.8 | 140.3 |
| 119 | 64.4 | 31.8 | 95.3 |

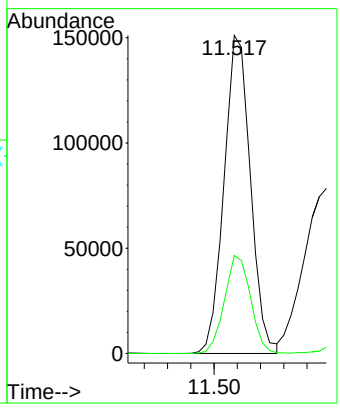





#67
Ethyl Benzene
Concen: 22.248 ug/l
RT: 11.517 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 91 Resp: 238433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.8 | 23.9 | 35.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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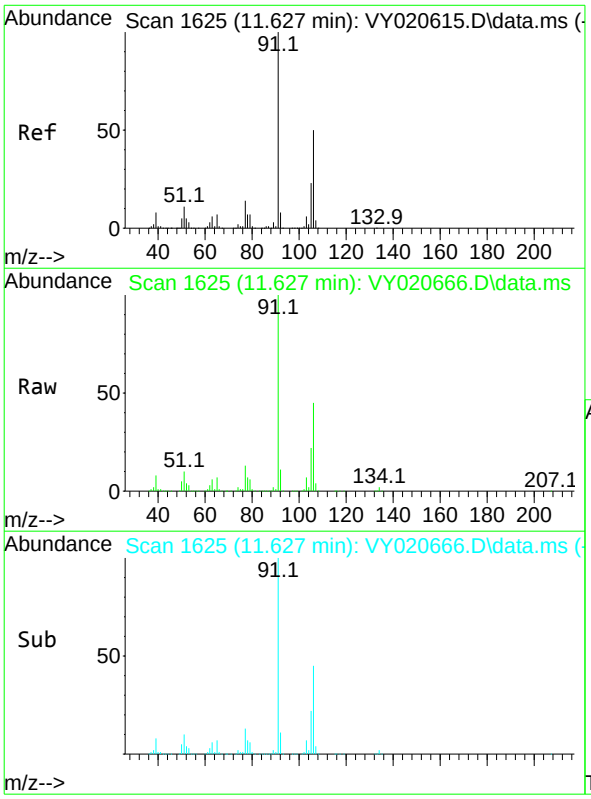
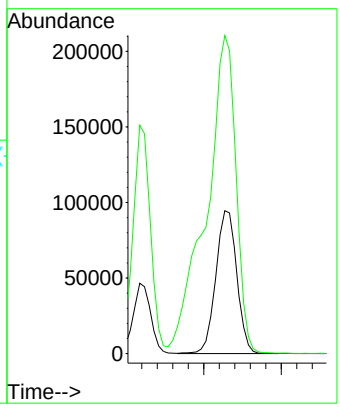
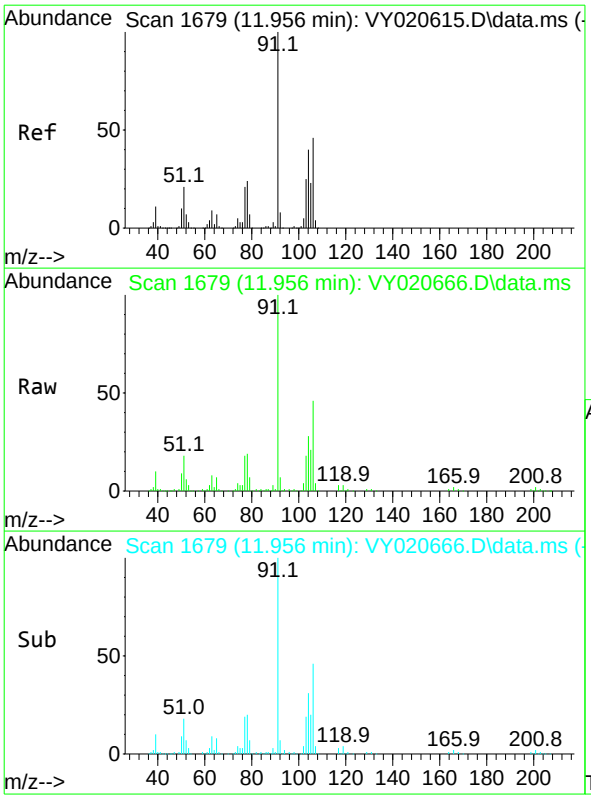



#68
m/p-Xylenes
Concen: 44.684 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:106 Resp: 178050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 314.7 | 165.0 | 247.4# |

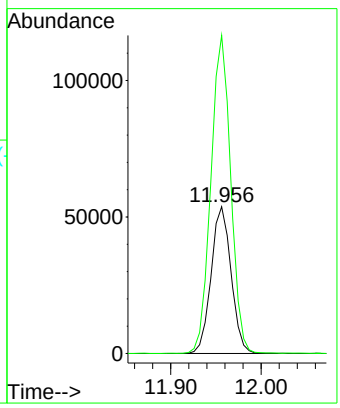





#69
o-Xylene
Concen: 22.185 ug/l
RT: 11.956 min Scan# 16
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:106 Resp: 82478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.3 | 108.4 | 325.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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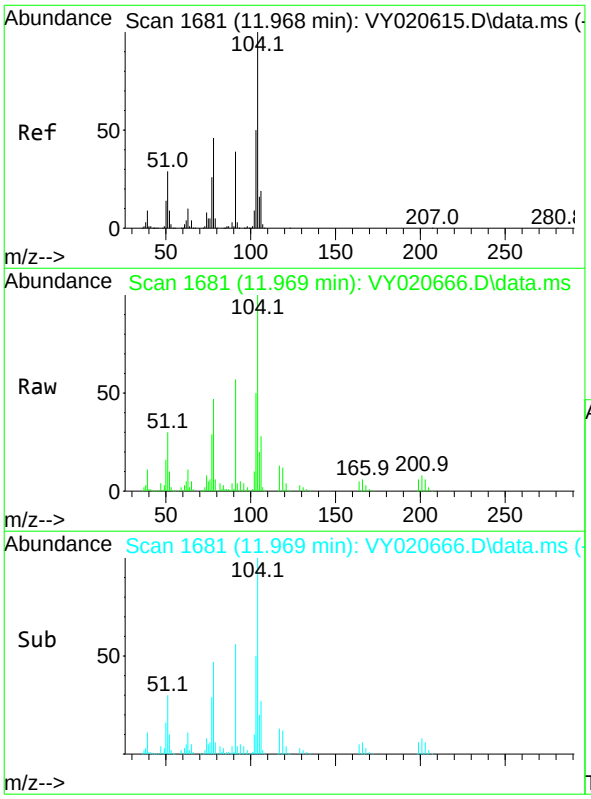
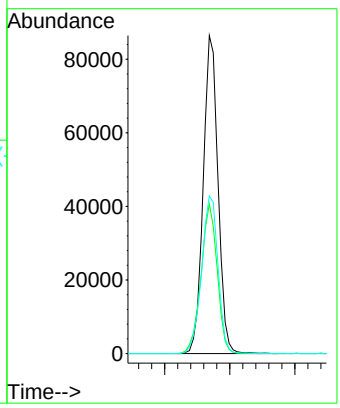
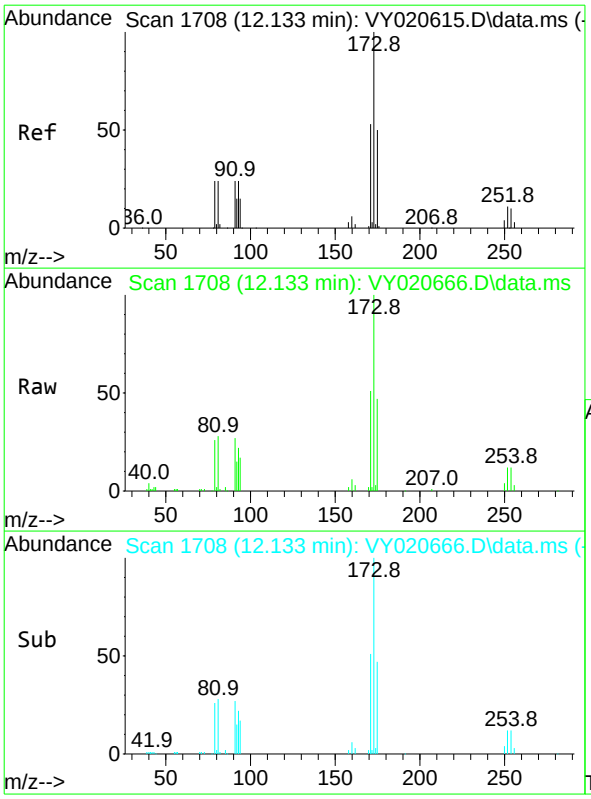



#70
Styrene
Concen: 21.974 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:104 Resp: 136494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.3 | 41.6 | 62.4 |
| 103 | 54.9 | 43.7 | 65.5 |






#71
Bromoform
Concen: 20.889 ug/l
RT: 12.133 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:173 Resp: 23329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.7 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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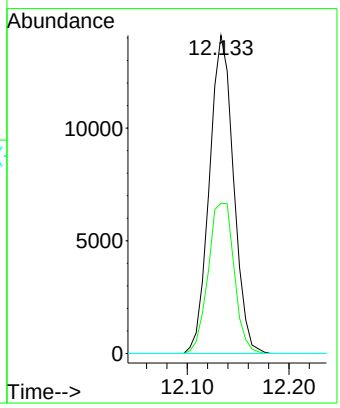
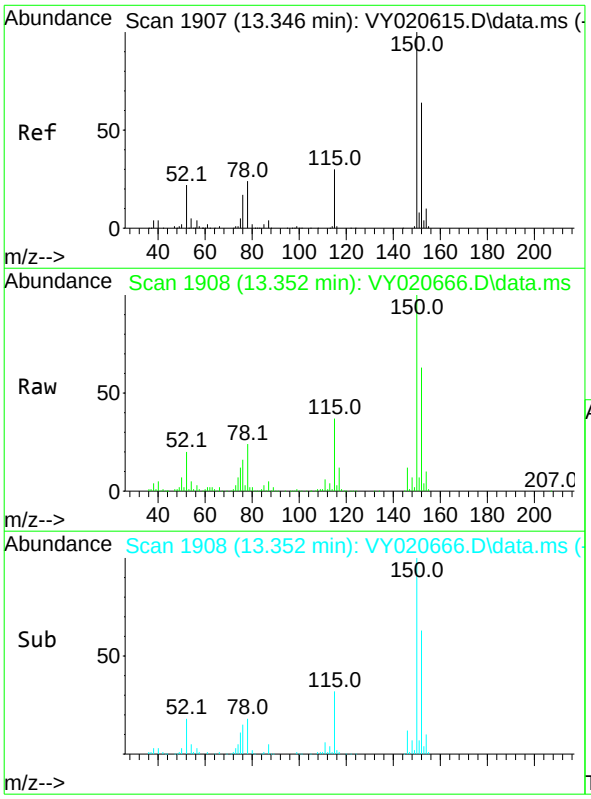
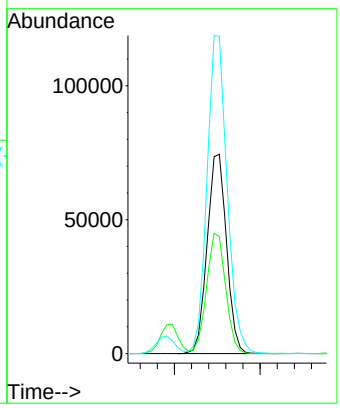


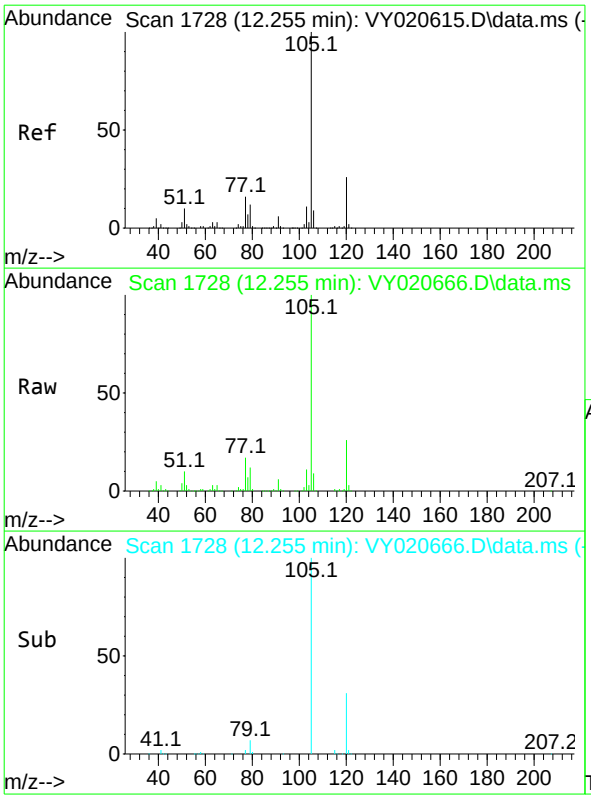




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:152 Resp: 116933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.5 | 30.2 | 90.6 |
| 150 | 165.3 | 0.0 | 355.4 |

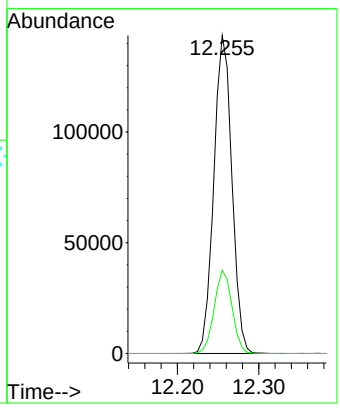





#73
Isopropylbenzene
Concen: 21.727 ug/l
RT: 12.255 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:105 Resp: 221703

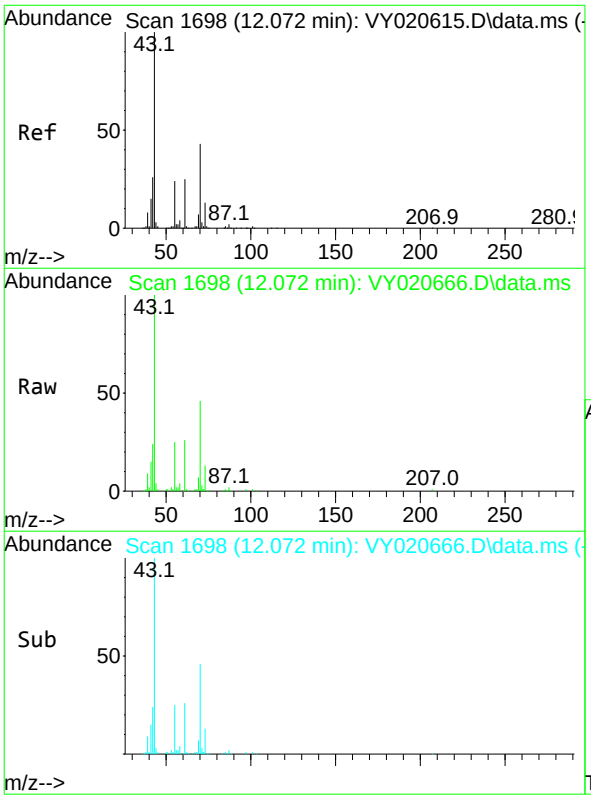
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.7 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

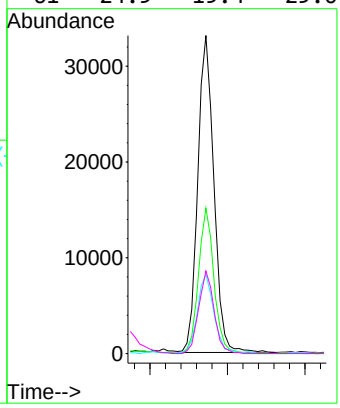
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

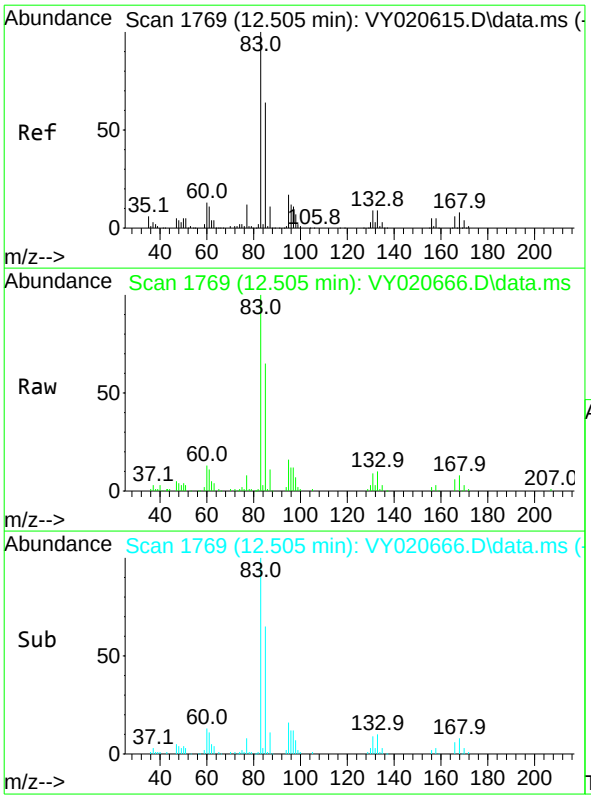



#74
N-amyl acetate
Concen: 20.036 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 47848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.5 | 34.2 | 51.2 |
| 55 | 26.1 | 19.6 | 29.4 |
| 61 | 24.9 | 19.4 | 29.0 |

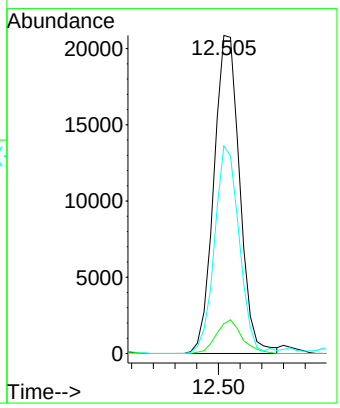





#75
1,1,2,2-Tetrachloroethane
Concen: 20.778 ug/l
RT: 12.505 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 83 Resp: 34416

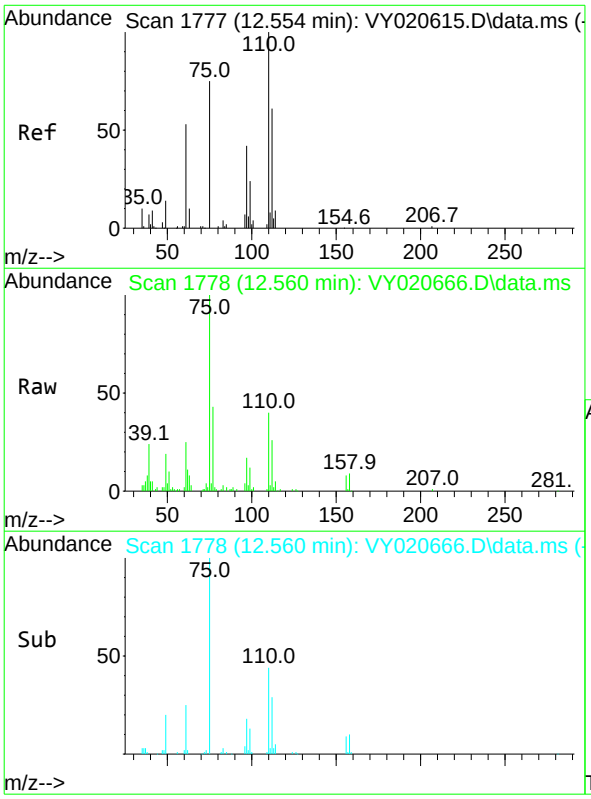
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.5 | 5.2 | 15.6 |
| 85 | 62.7 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

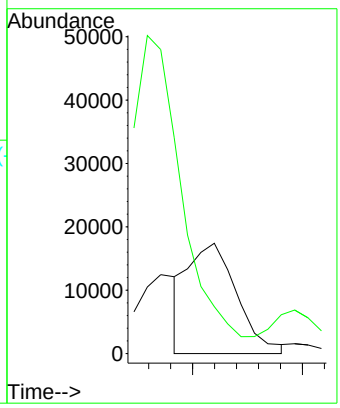
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

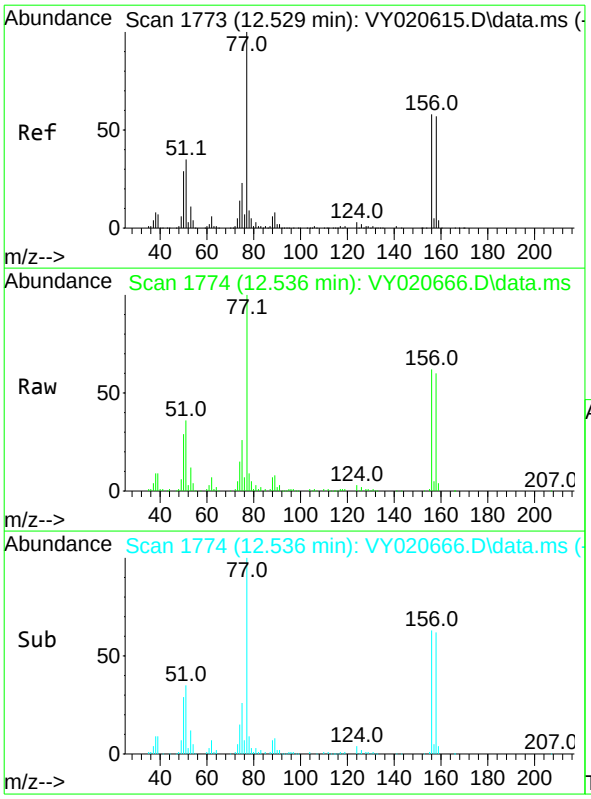



#76
1,2,3-Trichloropropane
Concen: 22.270 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 75 Resp: 27051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |






#77
Bromobenzene
Concen: 21.282 ug/l
RT: 12.536 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

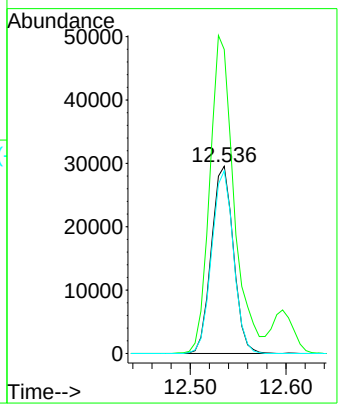
Tgt Ion:156 Resp: 47306

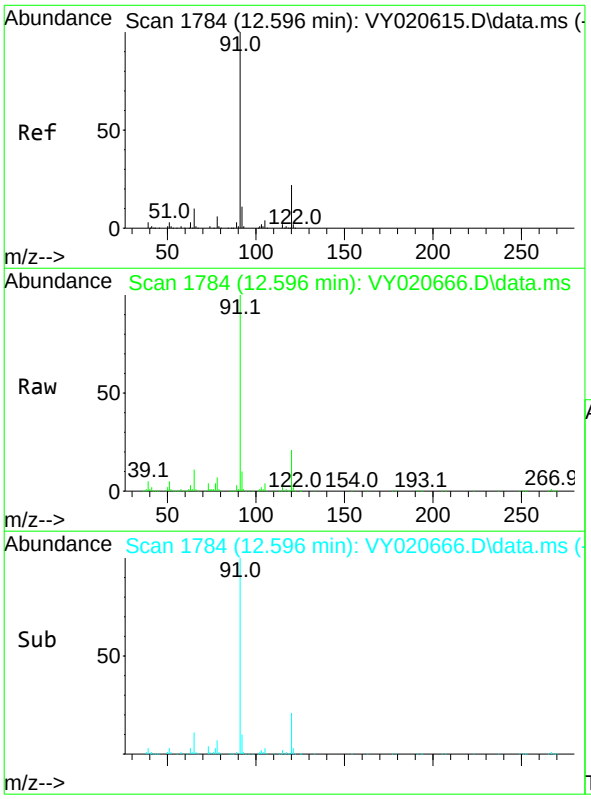
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 185.1 | 94.2 | 282.4 |
| 158 | 96.5 | 48.9 | 146.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

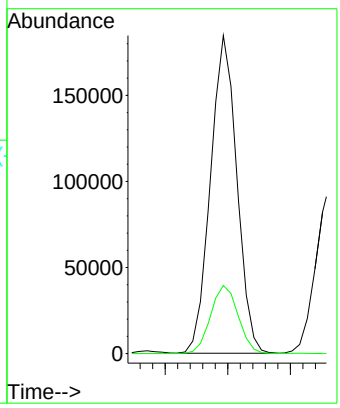


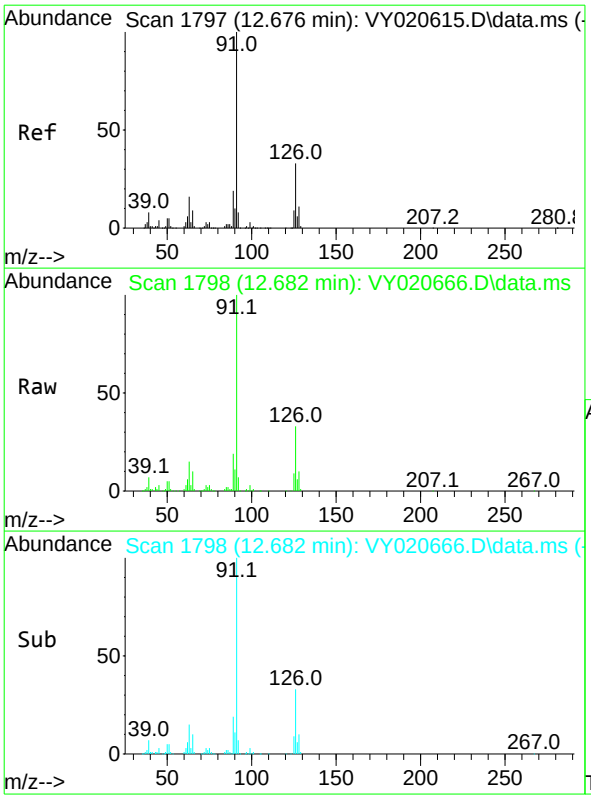




#78
n-propylbenzene
Concen: 21.981 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 91 Resp: 270238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.4 | 11.1 | 33.1 |

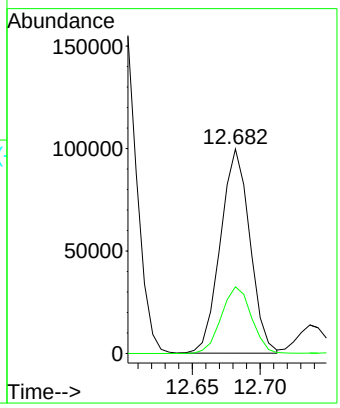





#79
2-Chlorotoluene
Concen: 21.727 ug/l
RT: 12.682 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 91 Resp: 150281

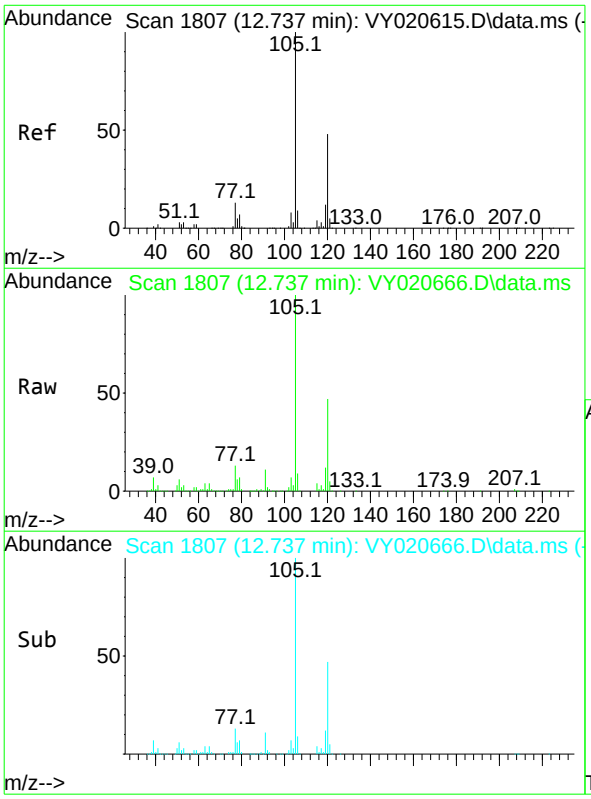
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.4 | 16.6 | 49.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

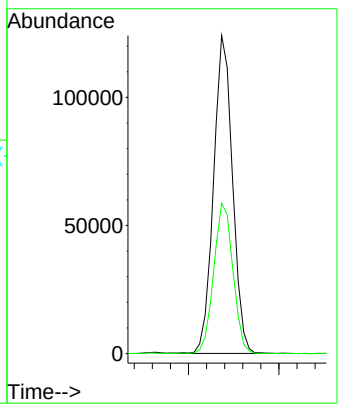
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

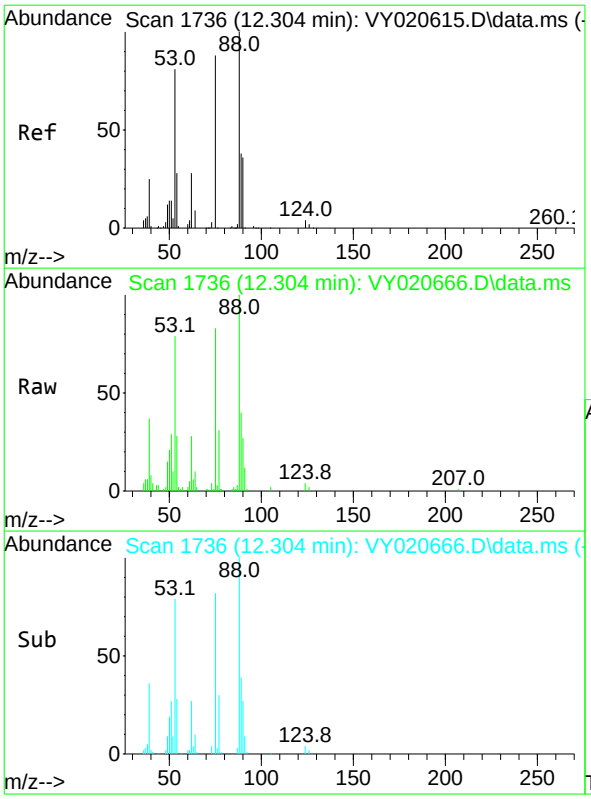



#80
1,3,5-Trimethylbenzene
Concen: 21.827 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:105 Resp: 180725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.0 | 23.9 | 71.7 |

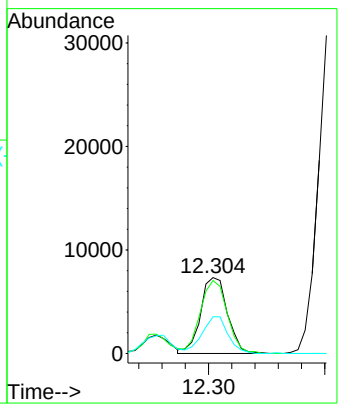





#81
trans-1,4-Dichloro-2-butene
Concen: 20.297 ug/l
RT: 12.304 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 75 Resp: 11746

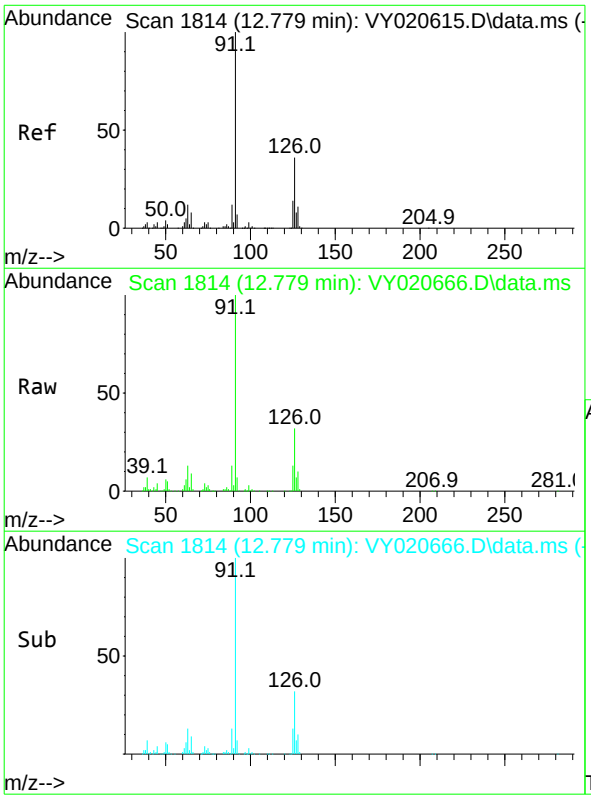
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.4 | 75.4 | 113.2 |
| 89 | 46.6 | 37.0 | 55.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

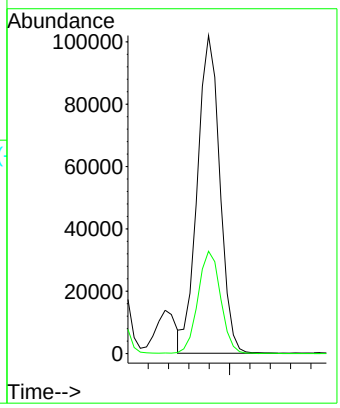
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

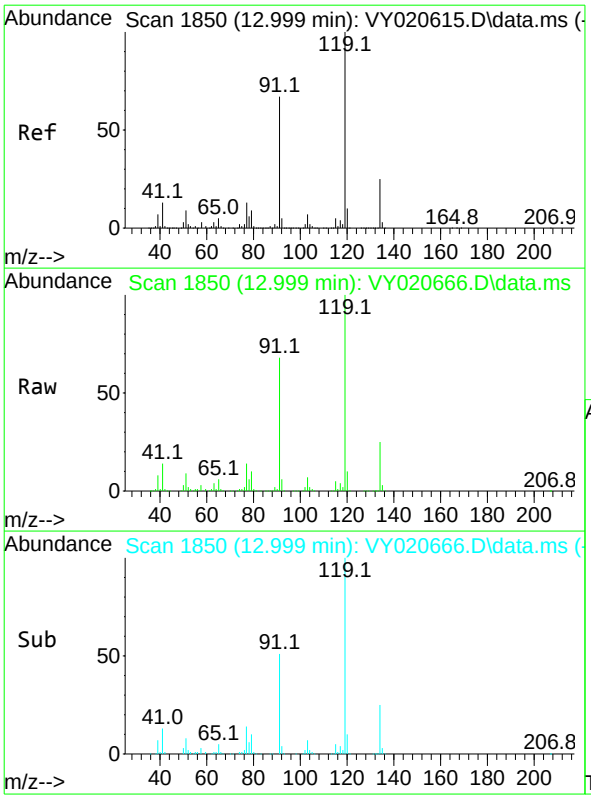



#82
4-Chlorotoluene
Concen: 21.784 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 91 Resp: 156322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.5 | 16.6 | 49.7 |

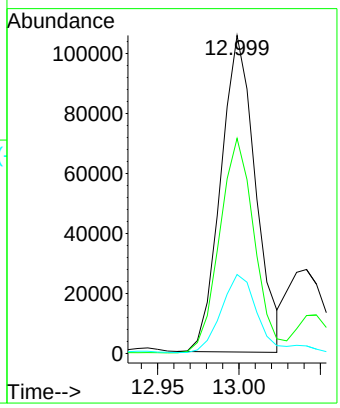





#83
tert-Butylbenzene
Concen: 20.934 ug/l
RT: 12.999 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:119 Resp: 156978

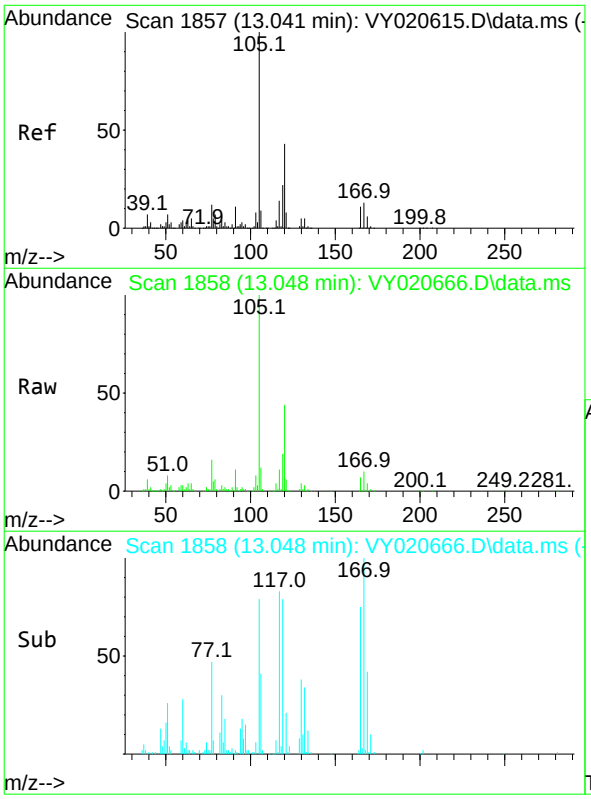
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 68.0 | 32.9 | 98.6 |
| 134 | 27.6 | 13.1 | 39.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

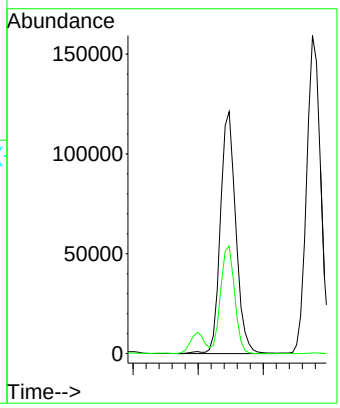
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

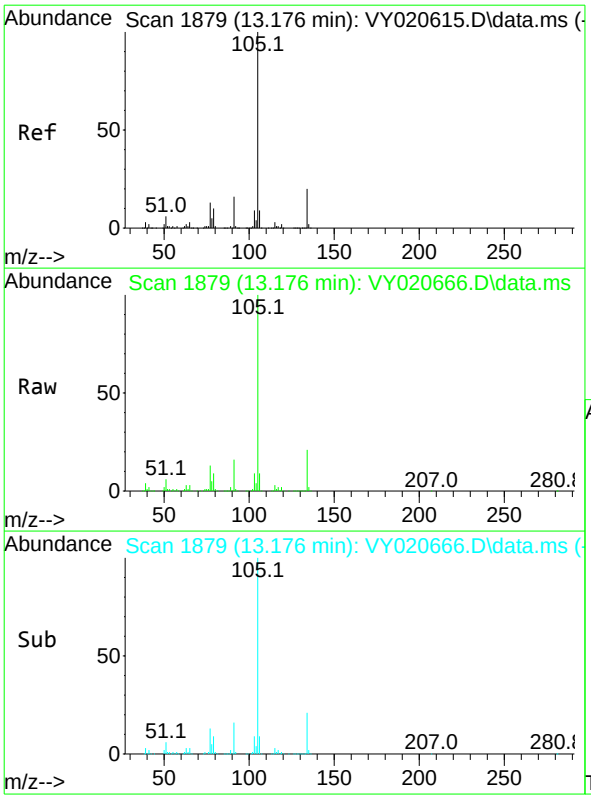



#84
1,2,4-Trimethylbenzene
Concen: 24.542 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:105 Resp: 199323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 40.6 | 21.8 | 65.4 |

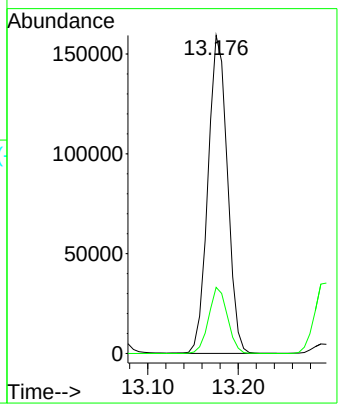





#85
sec-Butylbenzene
Concen: 21.761 ug/l
RT: 13.176 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:105 Resp: 237258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.2 | 10.0 | 30.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
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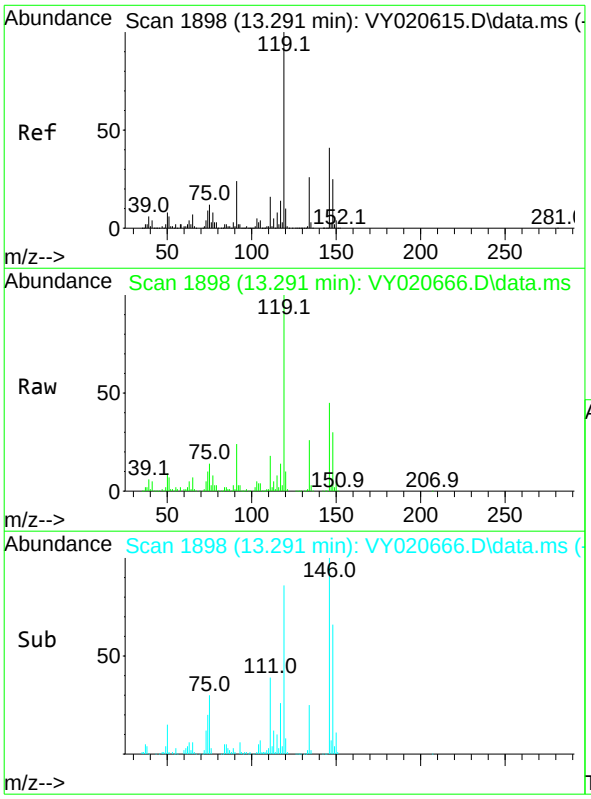
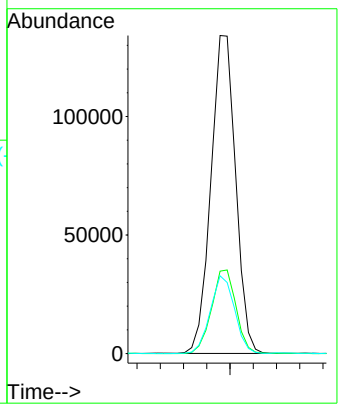
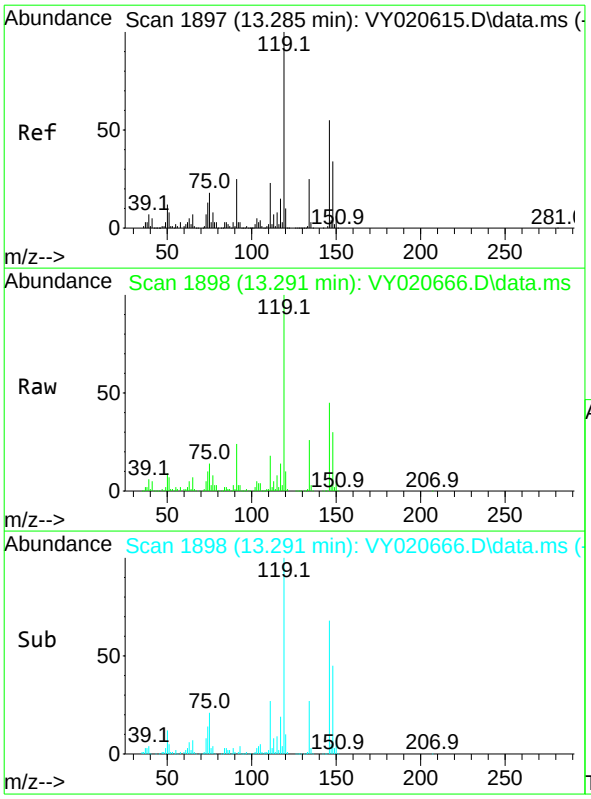



#86
p-Isopropyltoluene
Concen: 22.057 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:119 Resp: 198272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 12.9 | 38.6 |
| 91 | 24.1 | 12.1 | 36.3 |

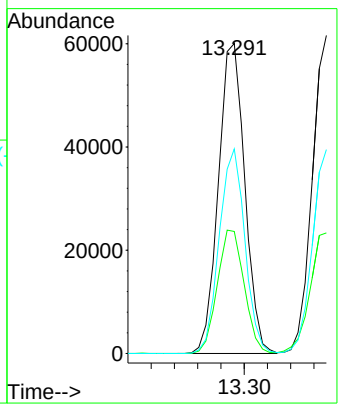





#87
1,3-Dichlorobenzene
Concen: 21.610 ug/l
RT: 13.291 min Scan# 18
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:146 Resp: 94820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 20.6 | 61.8 |
| 148 | 64.1 | 31.4 | 94.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
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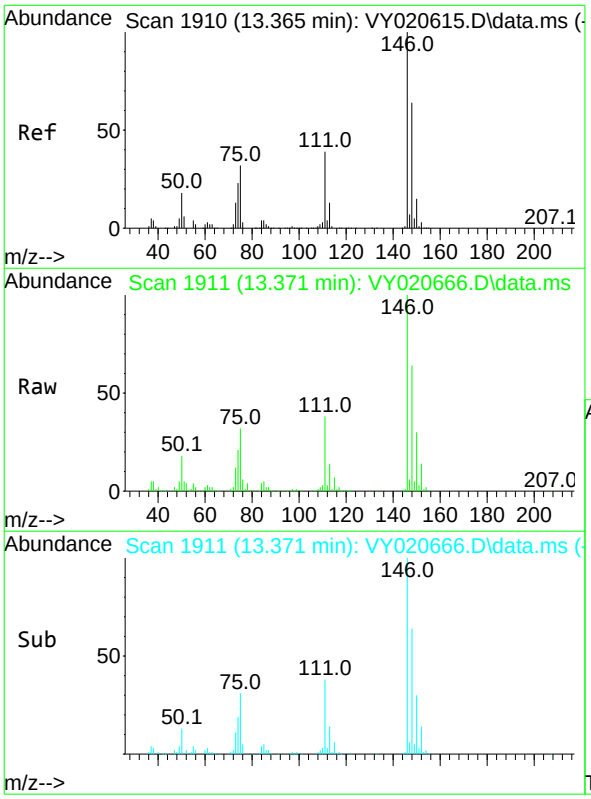
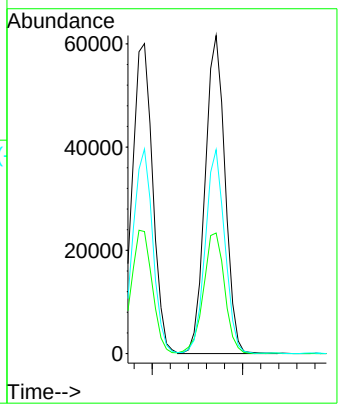
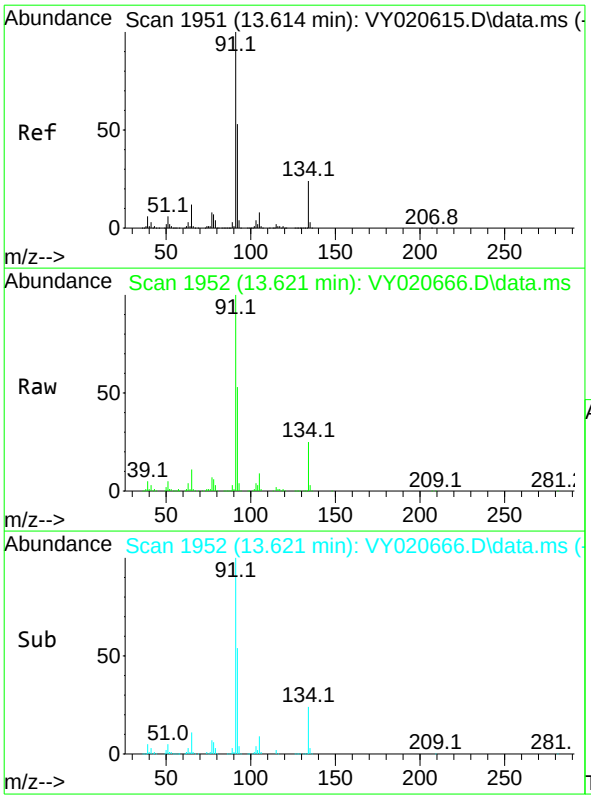



#88
1,4-Dichlorobenzene
Concen: 21.648 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:146 Resp: 94077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 19.6 | 58.7 |
| 148 | 62.8 | 31.9 | 95.5 |

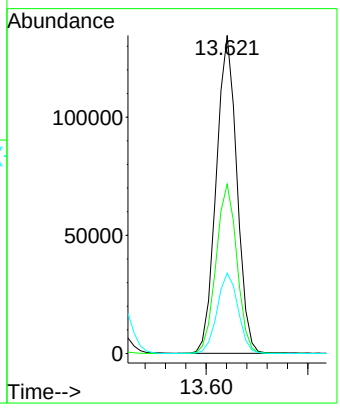





#89
n-Butylbenzene
Concen: 22.293 ug/l
RT: 13.621 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 91 Resp: 189919

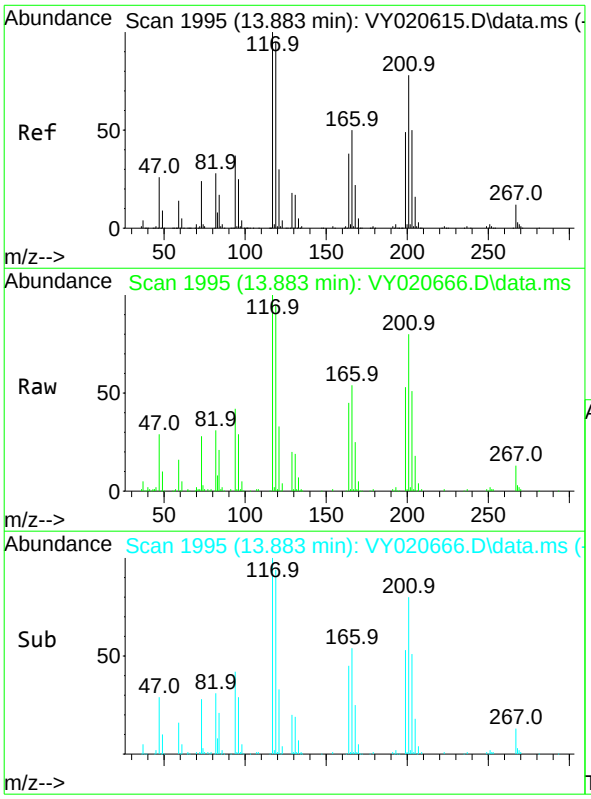
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.7 | 26.8 | 80.4 |
| 134 | 25.6 | 12.5 | 37.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

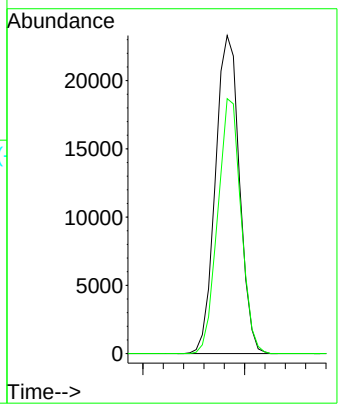
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

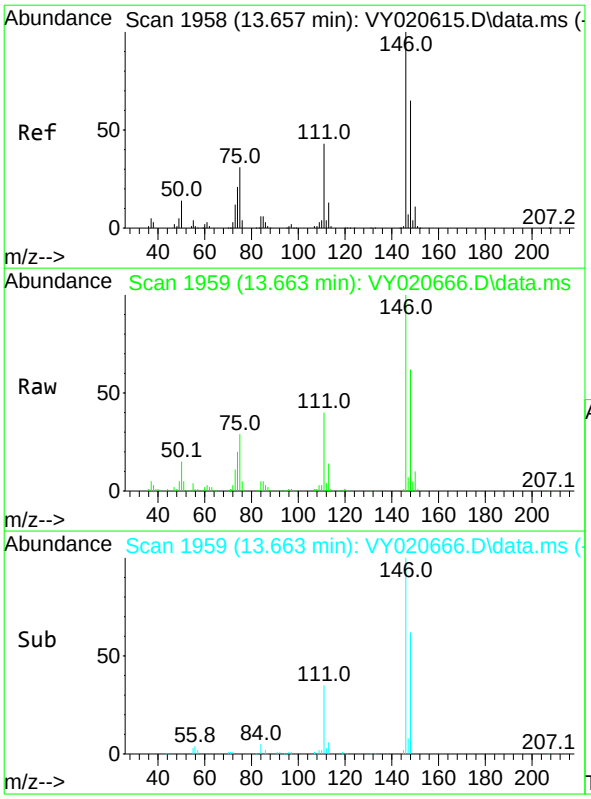



#90
Hexachloroethane
Concen: 21.500 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:117 Resp: 38301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.4 | 39.1 | 117.3 |

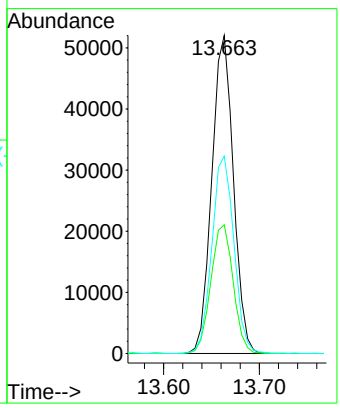





#91
1,2-Dichlorobenzene
Concen: 21.456 ug/l
RT: 13.663 min Scan# 19
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:146 Resp: 81571

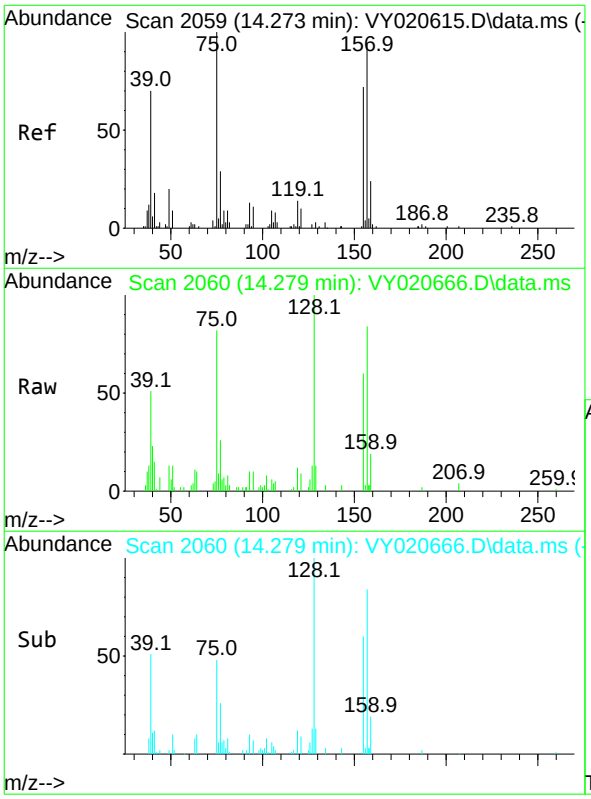
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.8 | 21.3 | 63.7 |
| 148 | 63.7 | 32.0 | 96.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

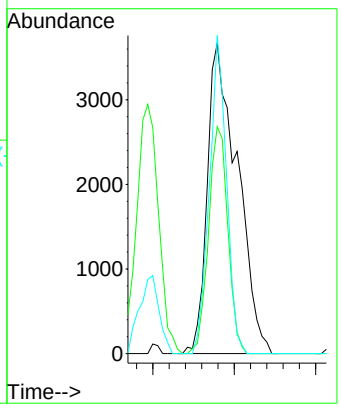
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

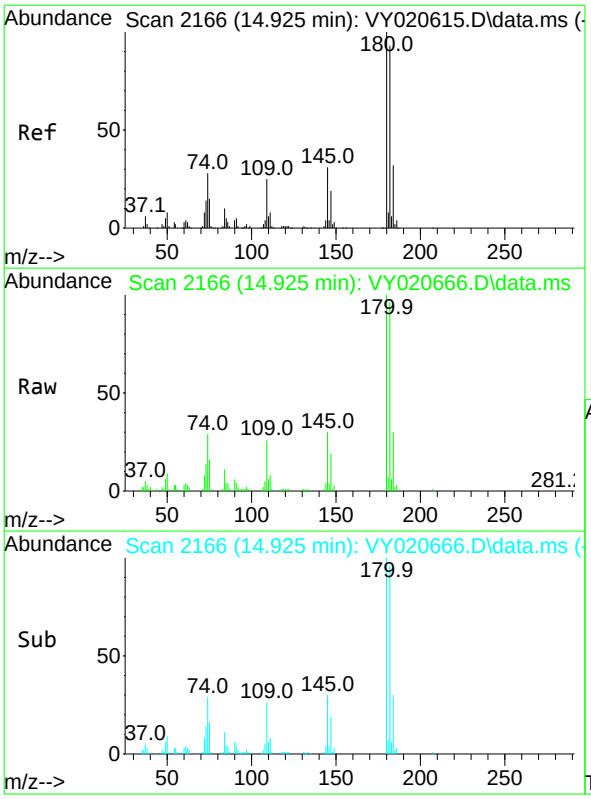



#92
1,2-Dibromo-3-Chloropropane
Concen: 35.007 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 75 Resp: 9414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 46.9 | 41.1 | 123.3 |
| 157 | 58.3 | 52.9 | 158.8 |






#93
1,2,4-Trichlorobenzene
Concen: 21.424 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

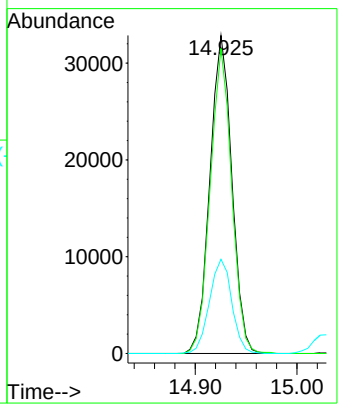
Tgt Ion:180 Resp: 49266

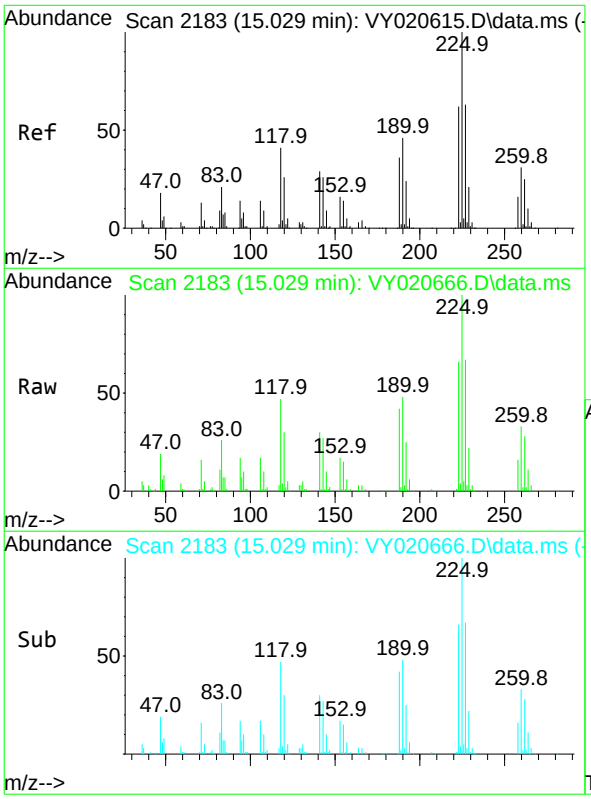
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.7 | 47.9 | 143.6 |
| 145 | 30.2 | 15.6 | 46.7 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024

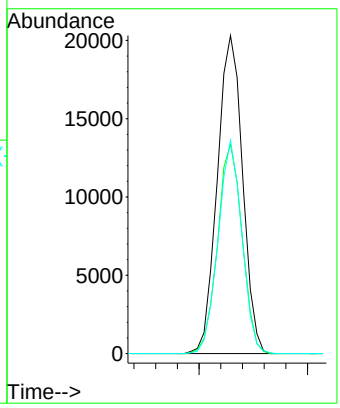


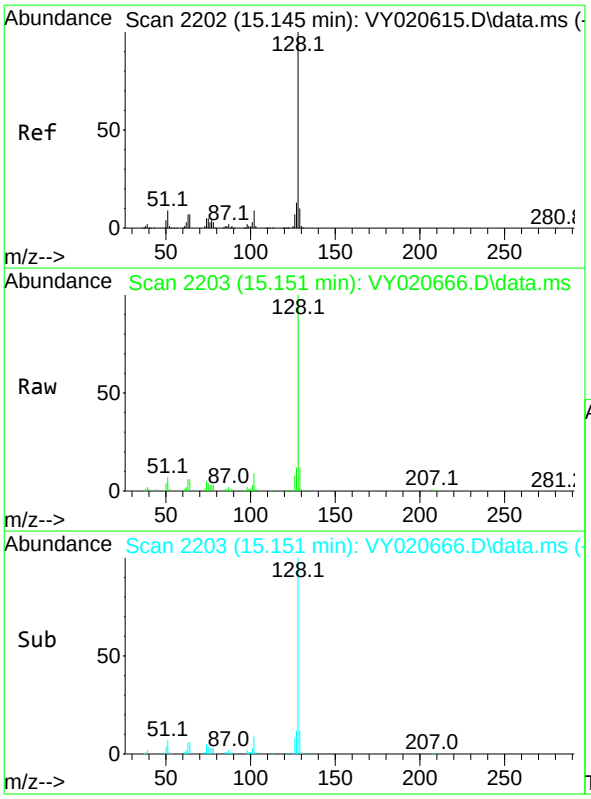




#94
Hexachlorobutadiene
Concen: 21.854 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:225 Resp: 32852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 31.8 | 95.3 |
| 227 | 62.7 | 32.2 | 96.6 |

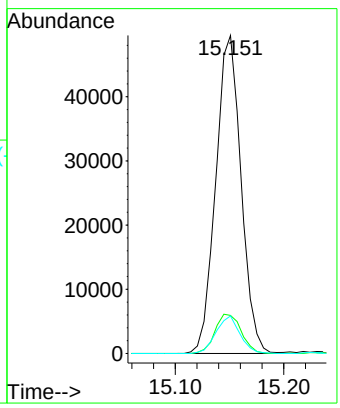





#95
Naphthalene
Concen: 20.350 ug/l
RT: 15.151 min Scan# 22
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:128 Resp: 80228

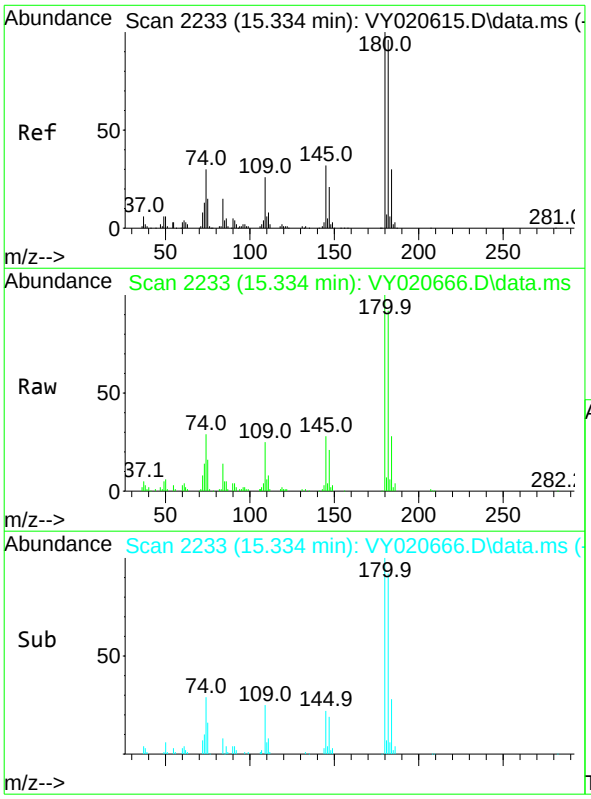
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.7 | 16.1 |
| 129 | 11.1 | 8.5 | 12.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

**Manual Integrations**
**APPROVED**

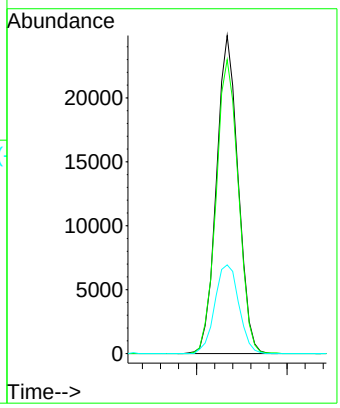
Reviewed By :Semsettin Yesilyurt 12/23/2024
Supervised By :Mahesh Dadoda 12/24/2024




#96
1,2,3-Trichlorobenzene
Concen: 21.307 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:180 Resp: 41397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 47.3 | 141.9 |
| 145 | 31.0 | 16.0 | 48.0 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | VY1226SBS01 | SDG No.: | P5316 |
| Lab Sample ID: | VY1226SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020715.D | 1 | | 12/26/24 14:32 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-01-4 | Vinyl Chloride | 17.7 | | 0.77 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 19.1 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 94.4 | | 6.20 | 20.0 | 25.0 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 19.6 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 20.7 | | 3.40 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 19.0 | | 0.84 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 19.7 | | 0.63 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 5.70 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 19.7 | | 0.87 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 19.3 | | 0.61 | 2.50 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 20.1 | | 0.67 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 19.4 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 20.0 | | 0.72 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 20.4 | | 0.61 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.4 | | 0.75 | 2.50 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 20.3 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 20.9 | | 0.89 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 19.8 | | 0.74 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 20.2 | | 0.62 | 2.50 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 62.3 | | 2.10 | 7.50 | 15.0 | ug/Kg |
| 103-65-1 | n-propylbenzene | 20.0 | | 0.64 | 2.50 | 5.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 19.8 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 20.0 | | 1.40 | 2.50 | 5.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 20.0 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 19.7 | | 0.74 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 19.9 | | 0.80 | 2.50 | 5.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 19.9 | | 0.63 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.3 | | 0.59 | 2.50 | 5.00 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 450 | | 42.5 | 80.0 | 100 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 55.0 | | 71 - 136 | | 110% | SPK: 50 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | VY1226SBS01 | SDG No.: | P5316 |
| Lab Sample ID: | VY1226SBS01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020715.D | 1 | | 12/26/24 14:32 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 52.1 | | 78 - 119 | | 104% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 50.6 | | 85 - 116 | | 101% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 51.8 | | 79 - 119 | | 104% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 120000 | 7.72 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 166000 | 8.622 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 139000 | 11.42 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 74000 | 13.353 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020715.D
Acq On : 26 Dec 2024 14:32
Operator : SY/MD
Sample : VY1226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| Internal Standards | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 120044 | 50.000 ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 165739 | 50.000 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 139363 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 74040 | 50.000 ug/l | 0.00 |
| System Monitoring Compounds | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 54084 | 55.004 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 110.000% | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 47566 | 52.103 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 104.200% | | |
| 50) Toluene-d8 | 10.115 | 98 | 183793 | 50.606 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.220% | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 62876 | 51.825 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 103.660% | | |
| Target Compounds | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 18836 | 19.935 ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 6770 | 19.212 ug/l | 93 |
| 4) Vinyl Chloride | 2.214 | 62 | 7714 | 17.668 ug/l | 89 |
| 5) Bromomethane | 2.598 | 94 | 6509 | 19.745 ug/l | 90 |
| 6) Chloroethane | 2.745 | 64 | 4700 | 17.944 ug/l | 96 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 32224 | 19.192 ug/l | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 8143 | 20.381 ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 18072 | 19.606 ug/l | 98 |
| 10) Methyl Iodide | 4.019 | 142 | 17304 | 17.167 ug/l | 97 |
| 11) Tert butyl alcohol | 4.860 | 59 | 7980 | 119.075 ug/l # | 84 |
| 12) 1,1-Dichloroethene | 3.806 | 96 | 15688 | 19.122 ug/l | 87 |
| 13) Acrolein | 3.659 | 56 | 2794 | 135.930 ug/l | 97 |
| 14) Allyl chloride | 4.397 | 41 | 18840 | 19.623 ug/l | 96 |
| 15) Acrylonitrile | 5.068 | 53 | 15561 | 100.820 ug/l | 98 |
| 16) Acetone | 3.885 | 43 | 11775 | 94.398 ug/l | 96 |
| 17) Carbon Disulfide | 4.117 | 76 | 37004 | 18.386 ug/l | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 6995 | 20.720 ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.135 | 73 | 44886 | 19.629 ug/l | 98 |
| 20) Methylene Chloride | 4.629 | 84 | 16773 | 20.675 ug/l | 89 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 16777 | 18.976 ug/l | 91 |
| 22) Diisopropyl ether | 6.031 | 45 | 39231 | 20.101 ug/l | 98 |
| 23) Vinyl Acetate | 5.970 | 43 | 118423 | 101.585 ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 28874 | 19.732 ug/l | 97 |
| 25) 2-Butanone | 6.909 | 43 | 17840 | 105.875 ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 34412 | 19.214 ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.909 | 96 | 20436 | 19.302 ug/l | 99 |
| 28) Bromochloromethane | 7.256 | 49 | 6829 | 17.648 ug/l | 98 |
| 29) Tetrahydrofuran | 7.268 | 42 | 10899 | 105.377 ug/l | 97 |
| 30) Chloroform | 7.433 | 83 | 37760 | 20.060 ug/l | 94 |
| 31) Cyclohexane | 7.713 | 56 | 24445 | 19.354 ug/l # | 90 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 39114 | 19.385 ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 23598 | 19.569 ug/l | 98 |
| 37) Ethyl Acetate | 7.000 | 43 | 8566 | 21.556 ug/l | 98 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 39187 | 19.734 ug/l | 99 |
| 39) Methylcyclohexane | 9.116 | 83 | 30514 | 19.742 ug/l | 96 |
| 40) Benzene | 8.091 | 78 | 69851 | 19.987 ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020715.D
Acq On : 26 Dec 2024 14:32
Operator : SY/MD
Sample : VY1226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 26 16:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 3741m | 18.637 | ug/l | | |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 22857 | 20.396 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 16685 | 19.754 | ug/l | # | 90 |
| 44) Trichloroethene | 8.872 | 130 | 20214 | 19.365 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 14072 | 19.891 | ug/l | | 96 |
| 46) Dibromomethane | 9.238 | 93 | 9956 | 20.339 | ug/l | | 98 |
| 47) Bromodichloromethane | 9.433 | 83 | 27211 | 19.608 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.231 | 41 | 7854 | 19.912 | ug/l | | 96 |
| 49) 1,4-Dioxane | 9.238 | 88 | 2078 | 445.671 | ug/l | | 95 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 42819 | 105.031 | ug/l | | 100 |
| 52) Toluene | 10.176 | 92 | 48544 | 20.266 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 24065 | 19.744 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 26207 | 19.616 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 12505 | 20.014 | ug/l | | 94 |
| 56) Ethyl methacrylate | 10.445 | 69 | 16177 | 19.708 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 21343 | 21.046 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 27555 | 96.265 | ug/l | | 100 |
| 59) 2-Hexanone | 10.768 | 43 | 28183 | 104.703 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.920 | 129 | 19953 | 19.763 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 11889 | 20.222 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.652 | 164 | 19878 | 20.877 | ug/l | | 97 |
| 65) Chlorobenzene | 11.451 | 112 | 54119 | 19.832 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 21666 | 20.493 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 96550 | 20.244 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 75635 | 41.573 | ug/l | | 97 |
| 69) o-Xylene | 11.963 | 106 | 35970 | 20.693 | ug/l | | 98 |
| 70) Styrene | 11.975 | 104 | 59026 | 20.228 | ug/l | | 99 |
| 71) Bromoform | 12.139 | 173 | 12535 | 20.623 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.261 | 105 | 101462 | 19.780 | ug/l | | 99 |
| 74) N-amyl acetate | 12.079 | 43 | 14718 | 20.191 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 13746 | 20.903 | ug/l | | 96 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 10539m | 22.380 | ug/l | | |
| 77) Bromobenzene | 12.536 | 156 | 22761 | 19.276 | ug/l | | 99 |
| 78) n-propylbenzene | 12.603 | 91 | 114949 | 19.993 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 65099 | 19.862 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 84854 | 19.855 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 4908 | 20.601 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 67579 | 19.951 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 78963 | 19.784 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 83301 | 20.030 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.182 | 105 | 107364 | 19.960 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 94876 | 19.792 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 45455 | 19.696 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 45797 | 19.948 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 79827 | 19.949 | ug/l | | 98 |
| 90) Hexachloroethane | 13.889 | 117 | 17599 | 19.307 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 40158 | 20.294 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 2581 | 20.237 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 23946 | 19.039 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 18496 | 20.177 | ug/l | | 98 |
| 95) Naphthalene | 15.151 | 128 | 40300 | 20.005 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 21103 | 20.151 | ug/l | | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020715.D
Acq On : 26 Dec 2024 14:32
Operator : SY/MD
Sample : VY1226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

Quant Time: Dec 26 16:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020715.D
Acq On : 26 Dec 2024 14:32
Operator : SY/MD
Sample : VY1226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 26 16:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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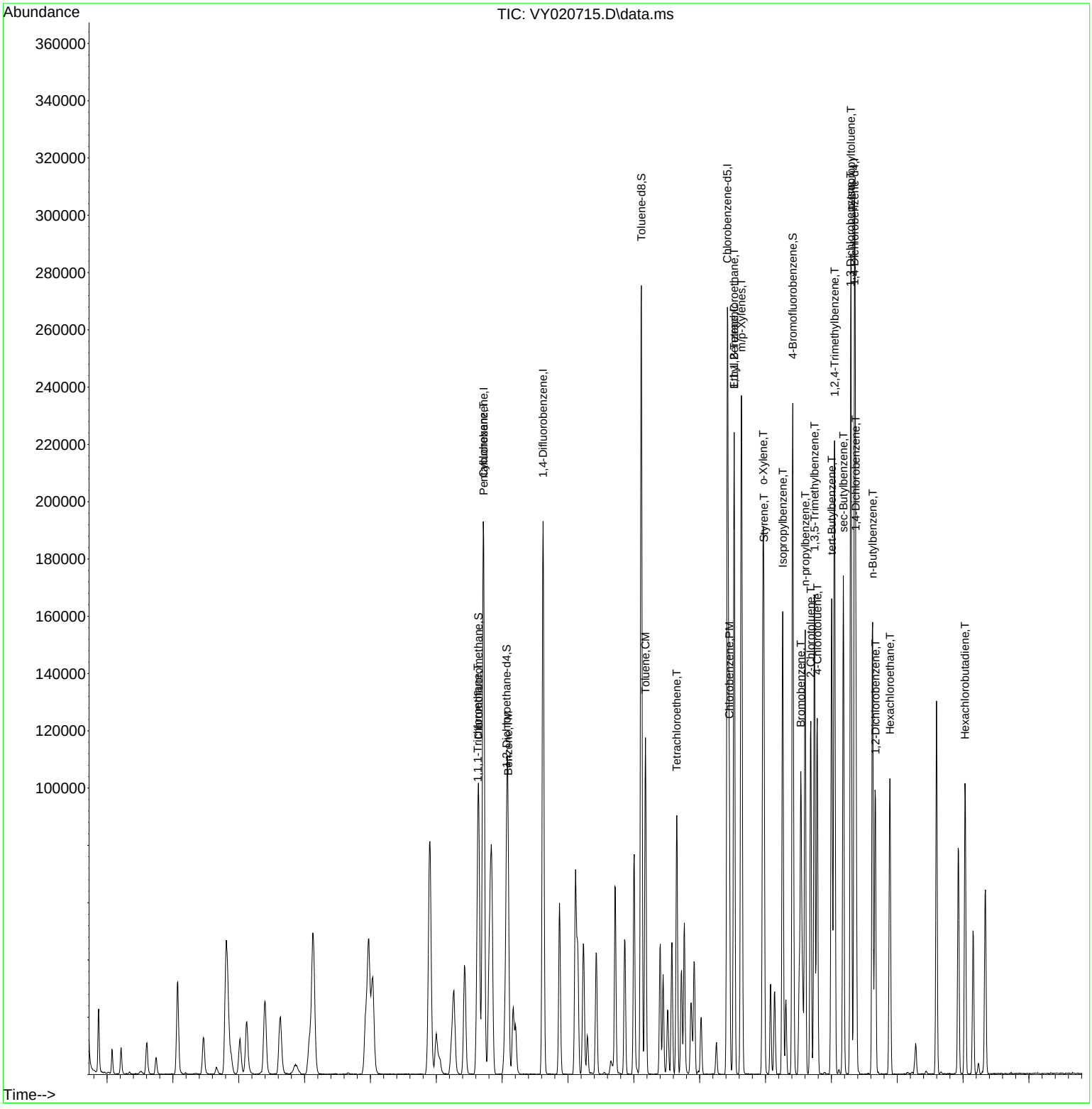
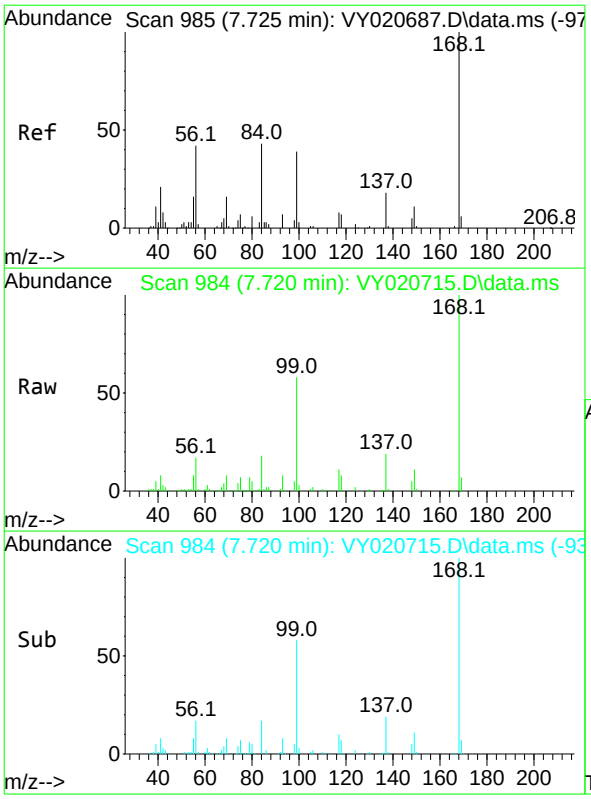
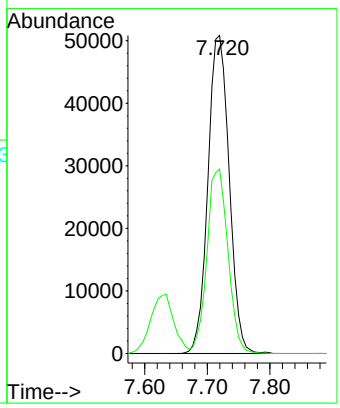





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 98
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:168 Resp: 120044

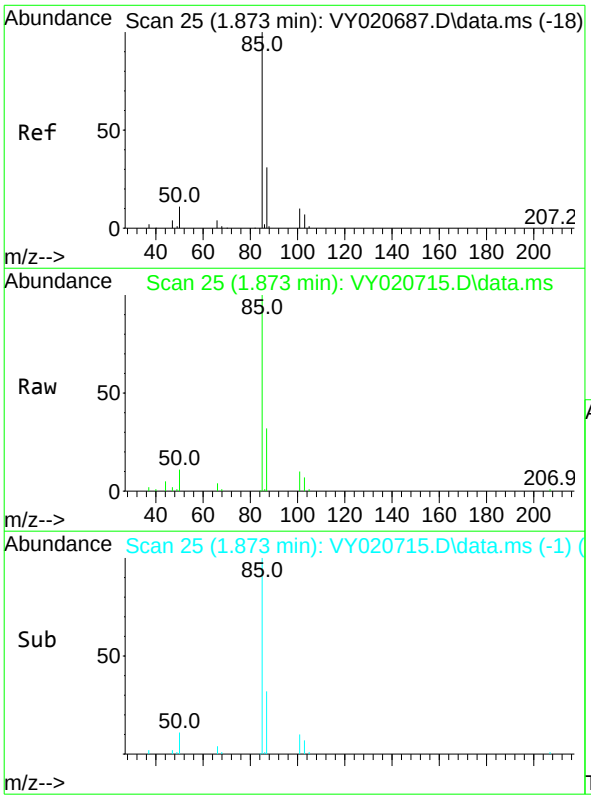
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.0 | 43.8 | 65.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations APPROVED**

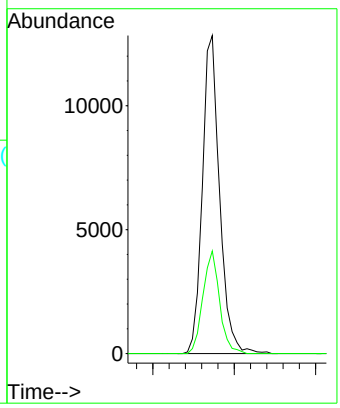
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

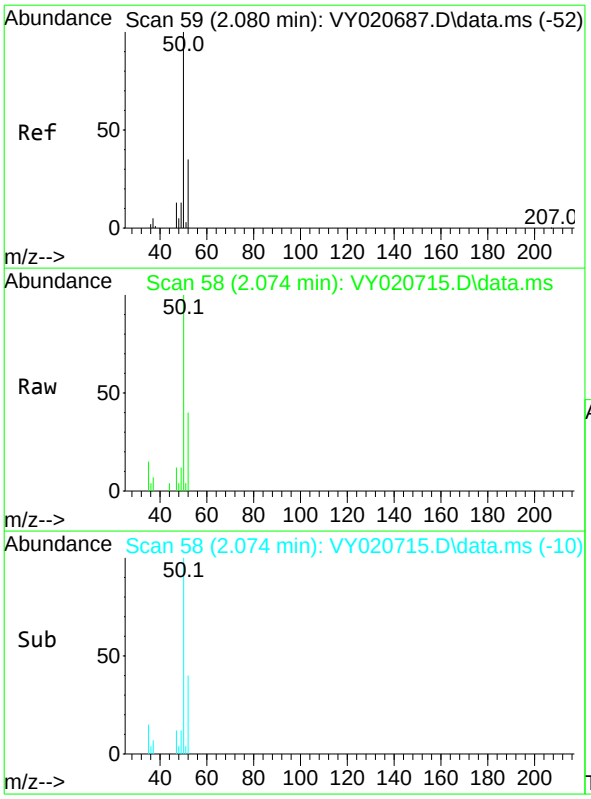



#2
Dichlorodifluoromethane
Concen: 19.935 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 85 Resp: 18836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 15.4 | 46.4 |

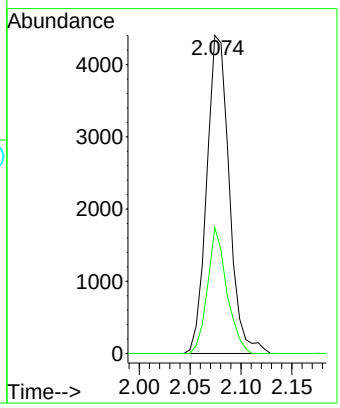





#3
Chloromethane
Concen: 19.212 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 50 Resp: 6770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 39.6 | 28.2 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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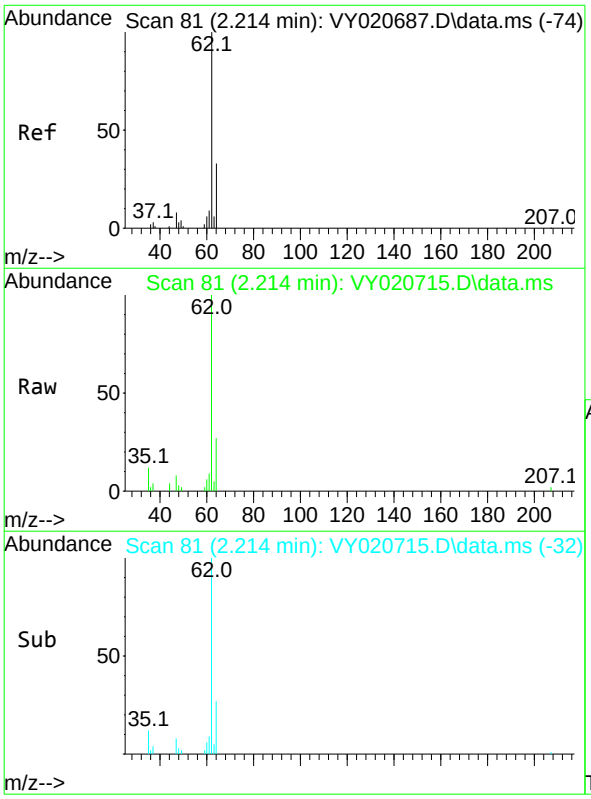
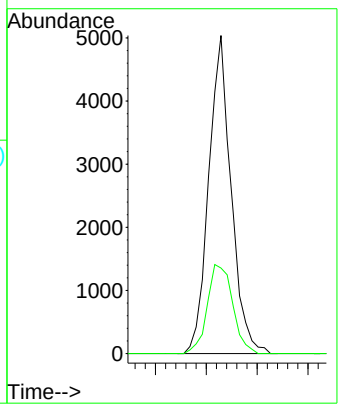
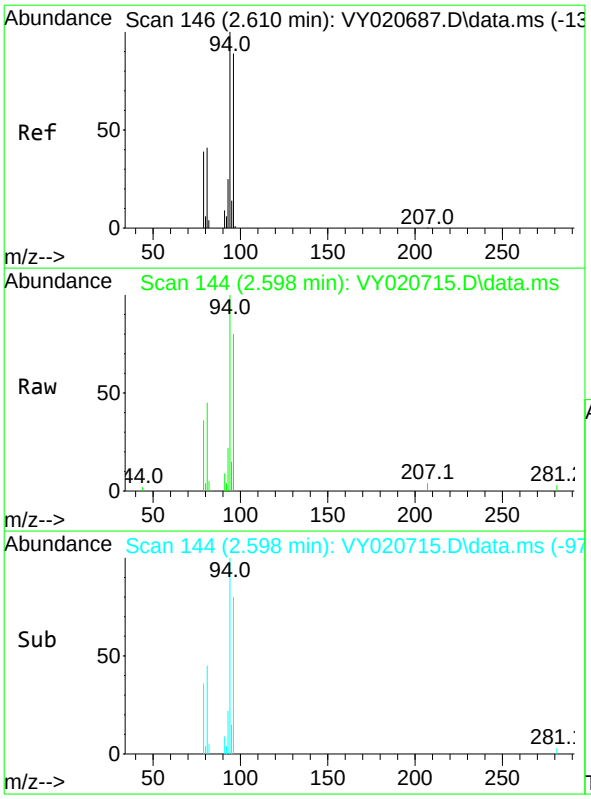



#4
Vinyl Chloride
Concen: 17.668 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 62 Resp: 7714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 26.9 | 26.6 | 40.0 |

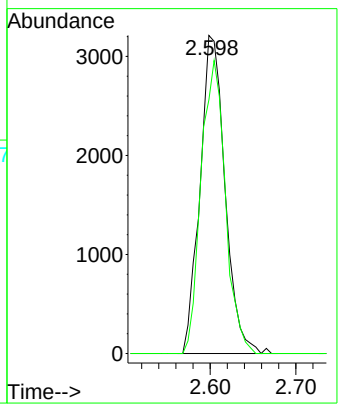





#5
Bromomethane
Concen: 19.745 ug/l
RT: 2.598 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 94 Resp: 6509

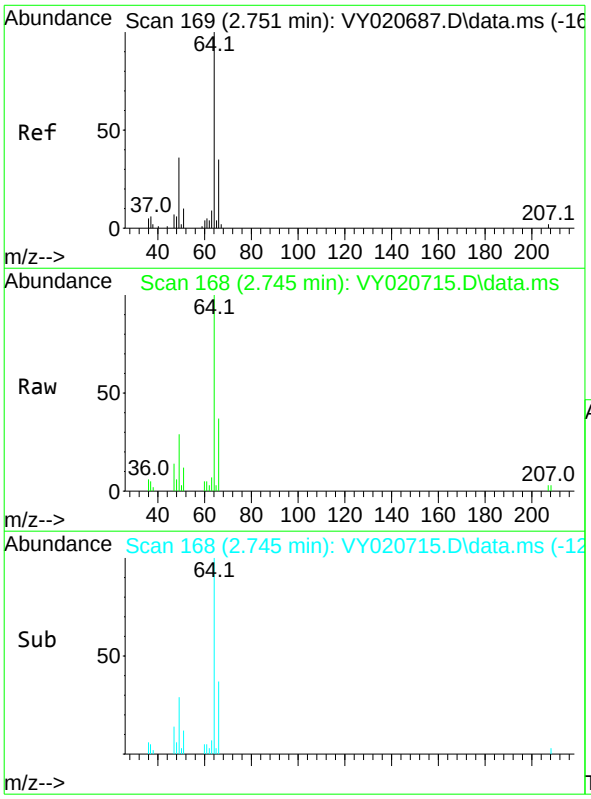
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 79.7 | 71.0 | 106.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

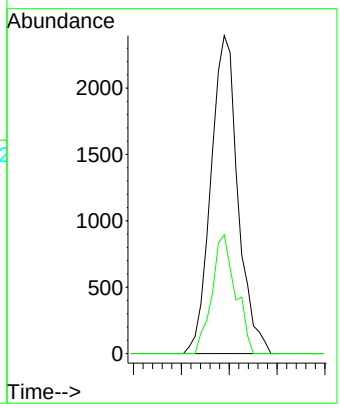
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

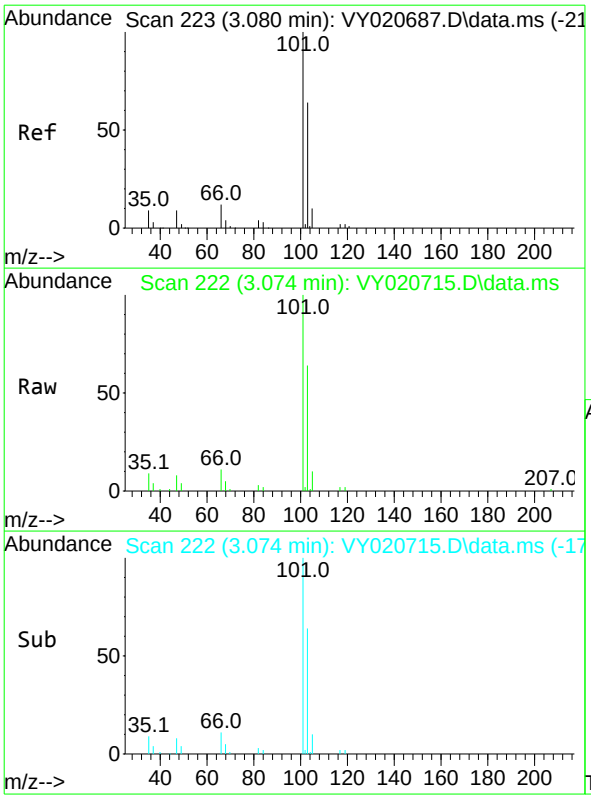



#6
Chloroethane
Concen: 17.944 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 64 Resp: 4700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 37.4 | 27.8 | 41.8 |

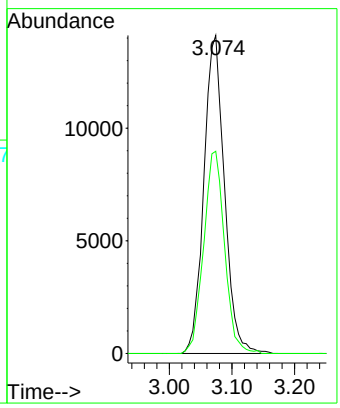





#7
Trichlorofluoromethane
Concen: 19.192 ug/l
RT: 3.074 min Scan# 22
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:101 Resp: 32224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 51.4 | 77.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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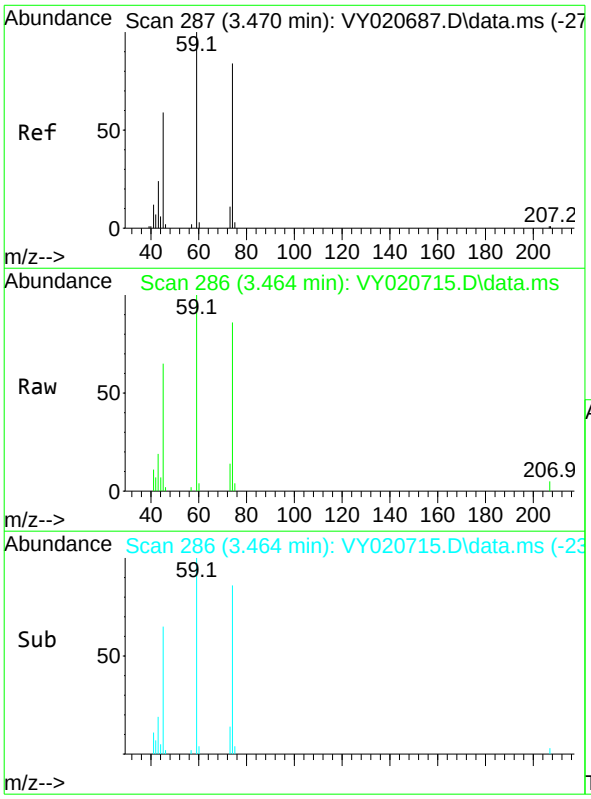
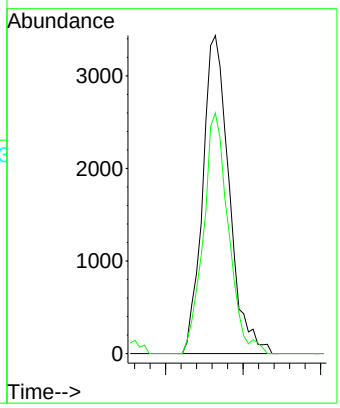
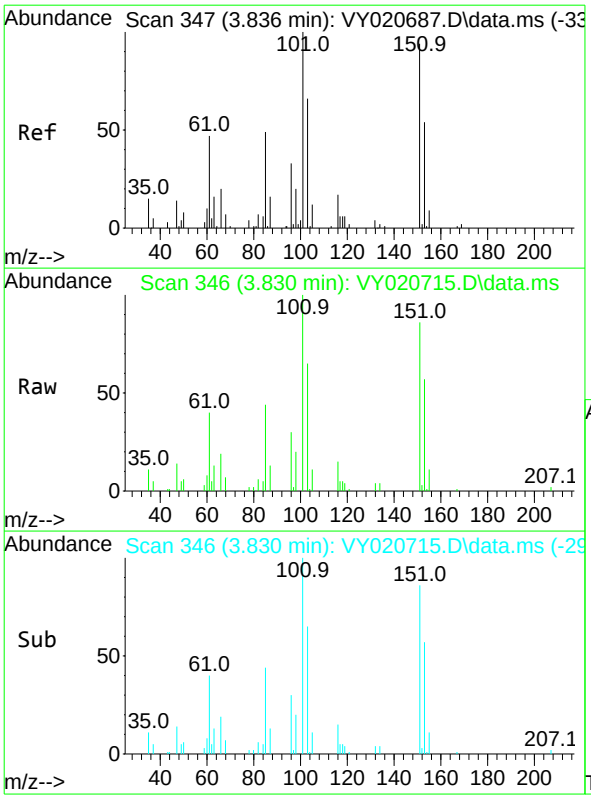



#8
Diethyl Ether
Concen: 20.381 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 74 Resp: 8143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 71.7 | 35.8 | 107.4 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.606 ug/l
RT: 3.830 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:101 Resp: 18072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.5 | 38.2 | 57.2 |
| 151 | 88.4 | 68.4 | 102.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 12/27/2024
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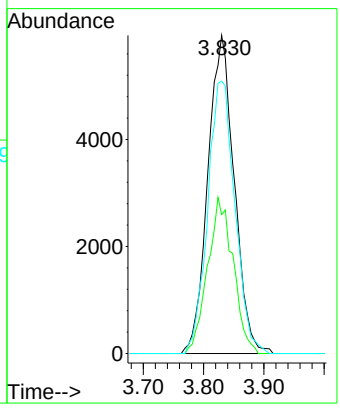
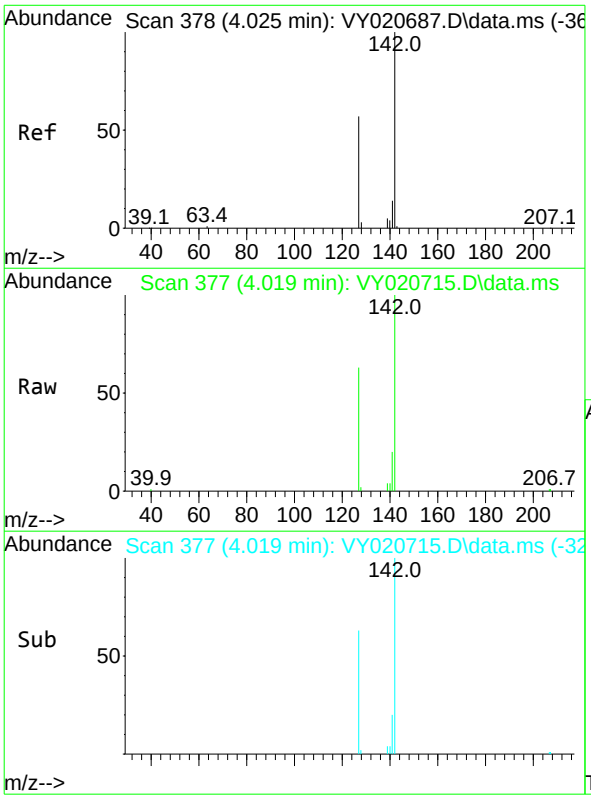
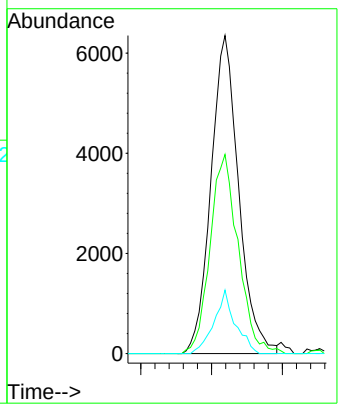


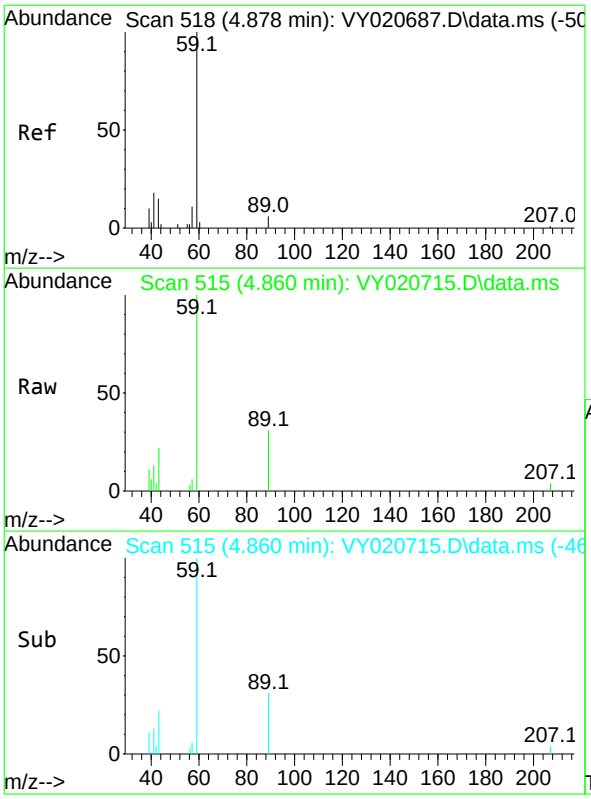




#10
Methyl Iodide
Concen: 17.167 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:142 Resp: 17304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 63.5 | 48.8 | 73.2 |
| 141 | 15.3 | 11.9 | 17.9 |

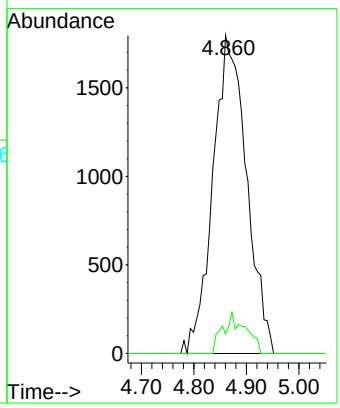





#11
Tert butyl alcohol
Concen: 119.075 ug/l
RT: 4.860 min Scan# 51
Delta R.T. -0.018 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 59 Resp: 7980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.7 | 2.8 | 4.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

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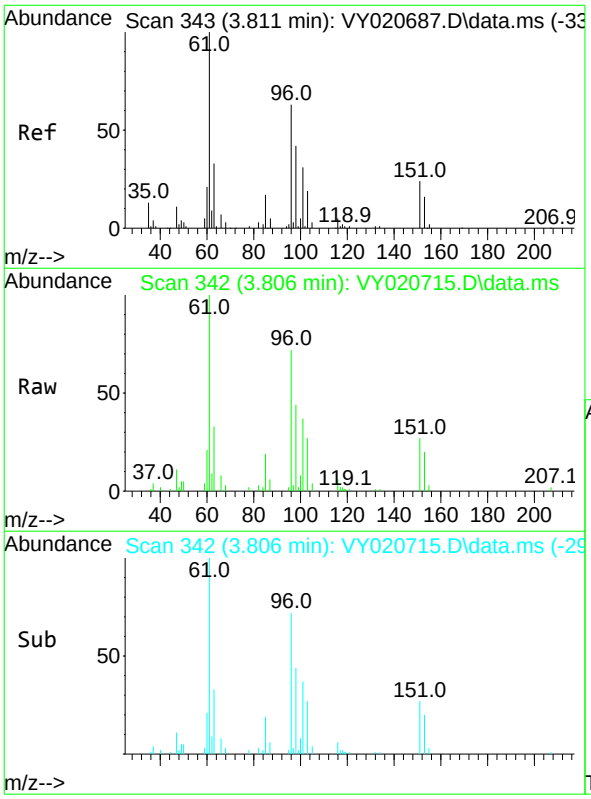
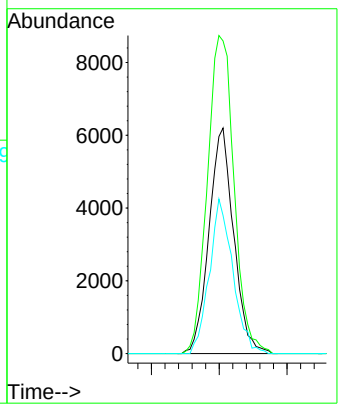
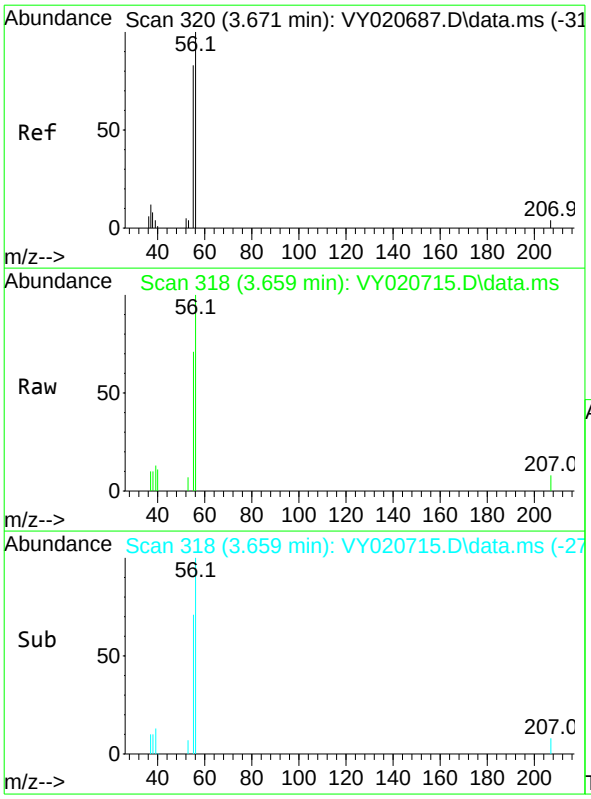



#12
1,1-Dichloroethene
Concen: 19.122 ug/l
RT: 3.806 min Scan# 342
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 96 Resp: 15688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.6 | 127.1 | 190.7 |
| 98 | 61.2 | 53.4 | 80.0 |

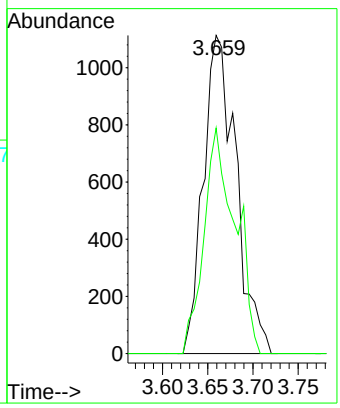





#13
Acrolein
Concen: 135.930 ug/l
RT: 3.659 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 56 Resp: 2794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.4 | 57.0 | 85.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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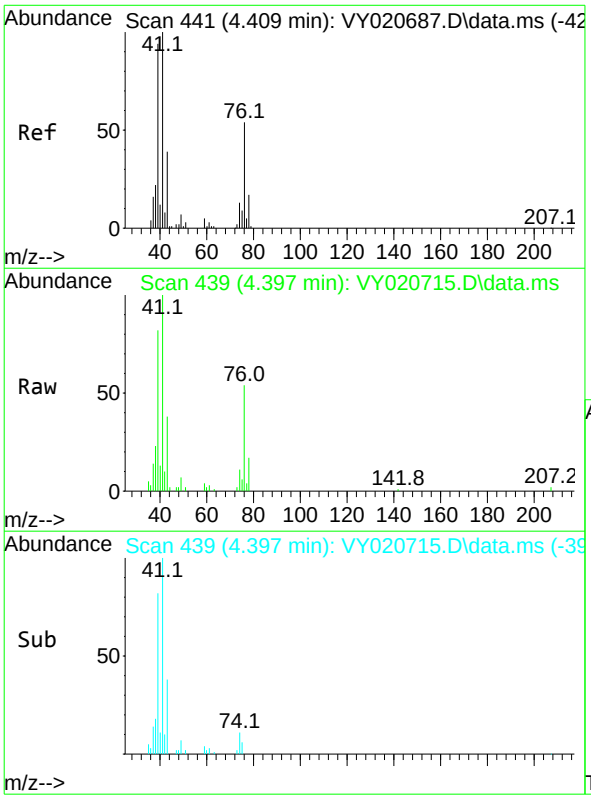
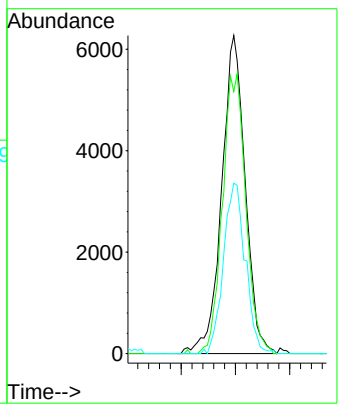
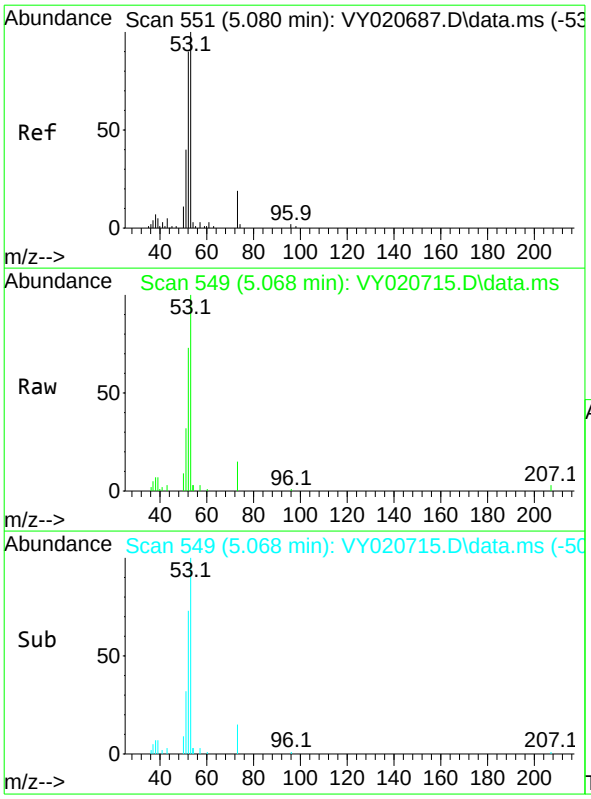



#14
Allyl chloride
Concen: 19.623 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 41 Resp: 18840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 87.1 | 73.5 | 110.3 |
| 76 | 50.0 | 41.8 | 62.8 |

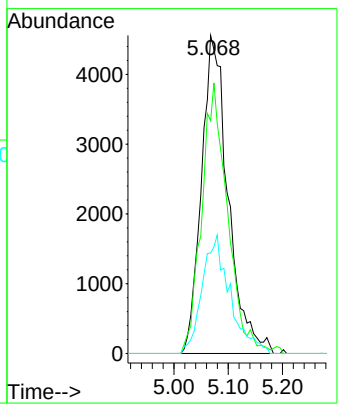





#15
Acrylonitrile
Concen: 100.820 ug/l
RT: 5.068 min Scan# 54
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 53 Resp: 15561

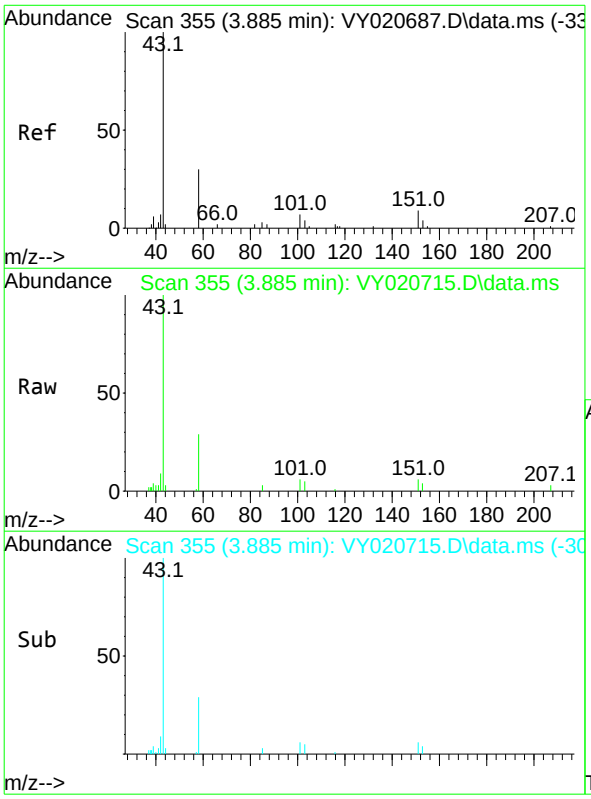
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.1 | 67.1 | 100.7 |
| 51 | 38.8 | 31.4 | 47.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

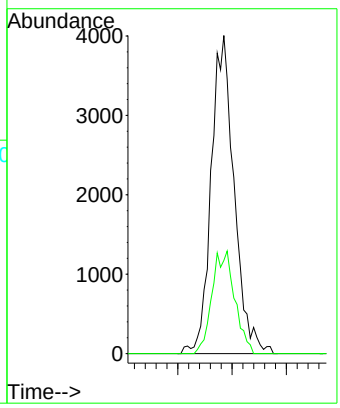
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

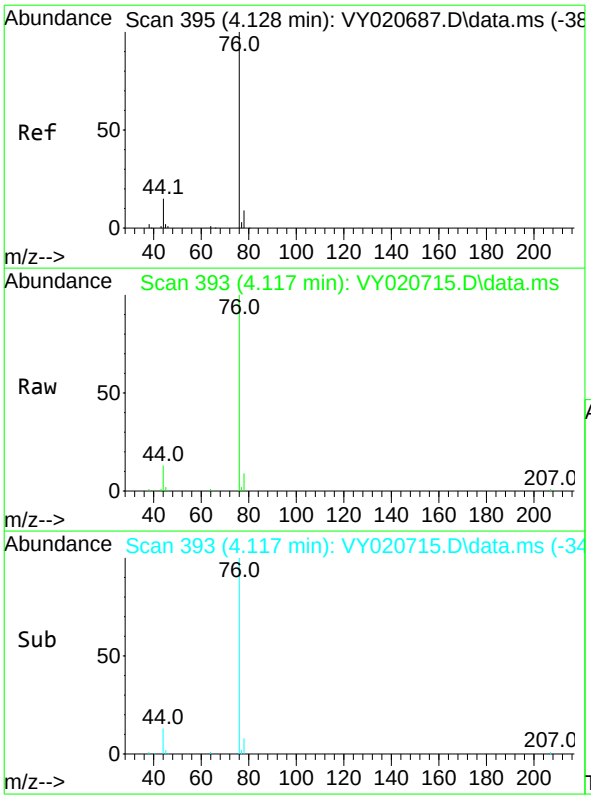



#16
Acetone
Concen: 94.398 ug/l
RT: 3.885 min Scan# 355
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 11775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.3 | 25.0 | 37.6 |

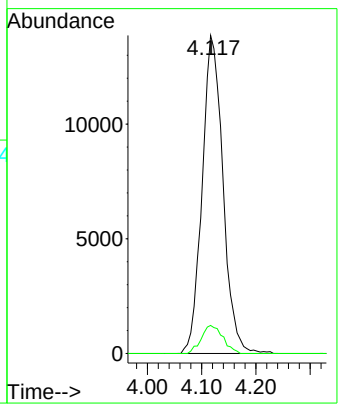





#17
Carbon Disulfide
Concen: 18.386 ug/l
RT: 4.117 min Scan# 39
Delta R.T. -0.011 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 76 Resp: 37004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 6.9 | 10.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

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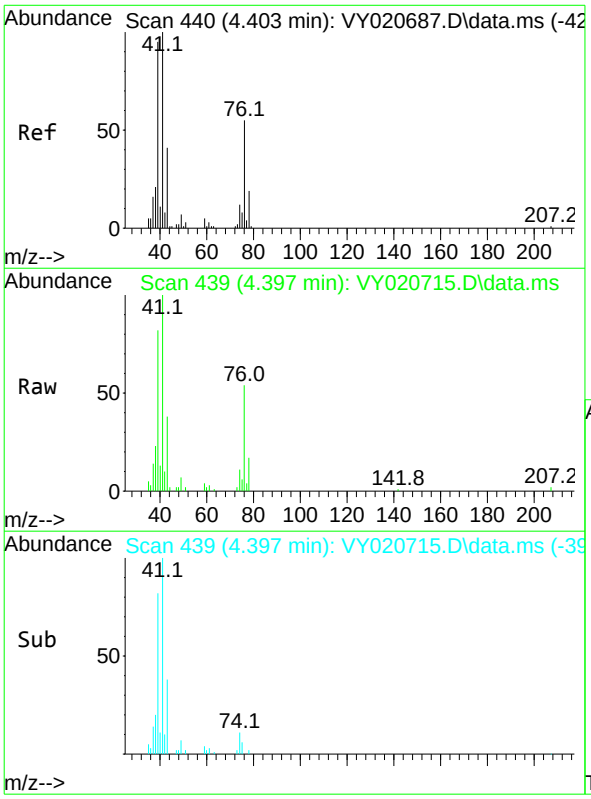
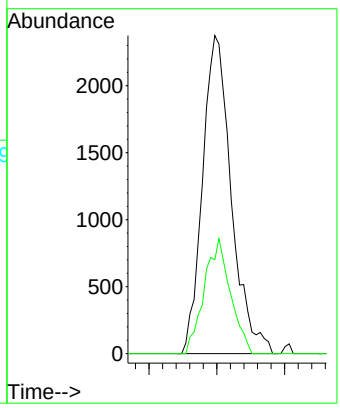
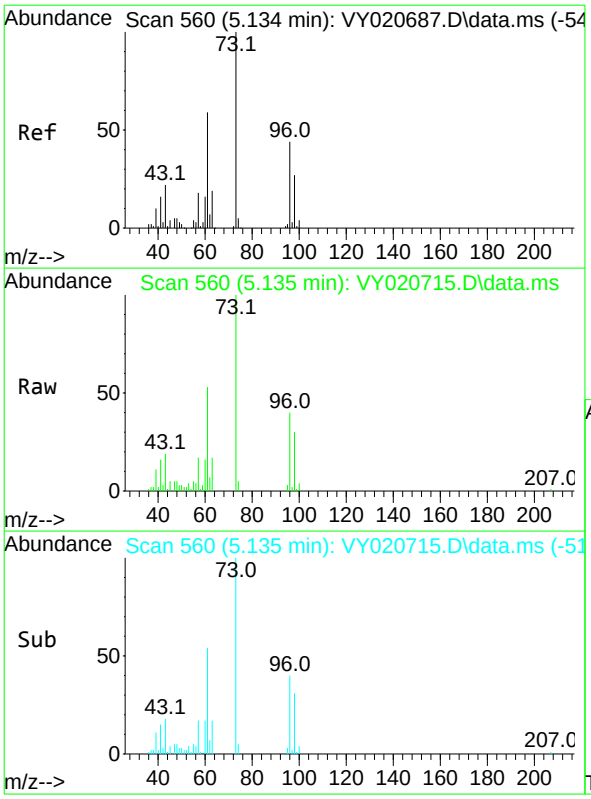



#18
Methyl Acetate
Concen: 20.720 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 6995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 32.8 | 25.3 | 37.9 |

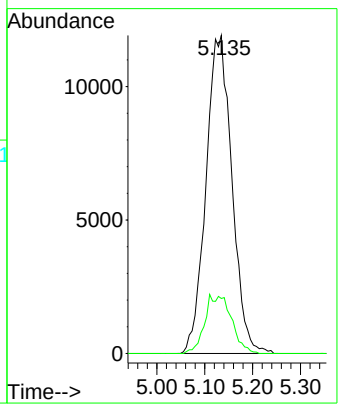





#19
Methyl tert-butyl Ether
Concen: 19.629 ug/l
RT: 5.135 min Scan# 56
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 73 Resp: 44886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 17.3 | 14.4 | 21.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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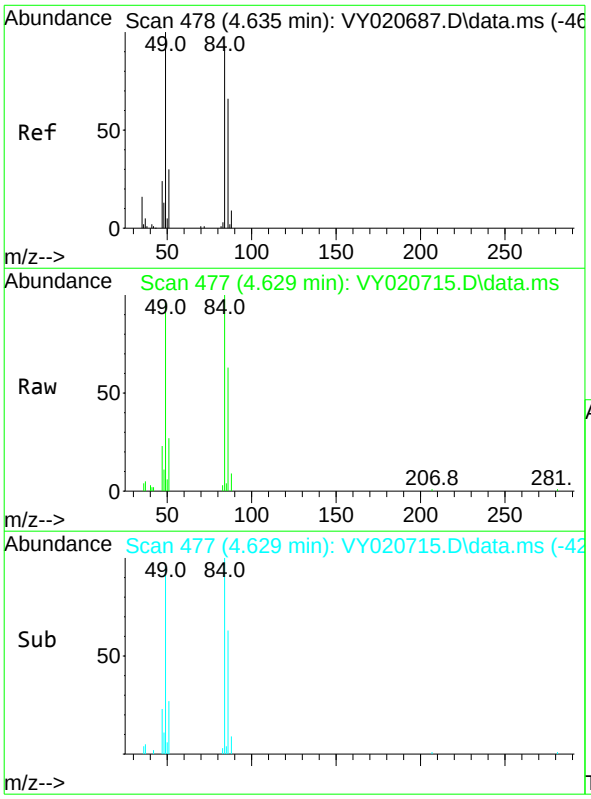
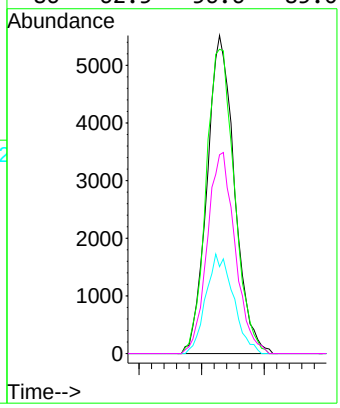
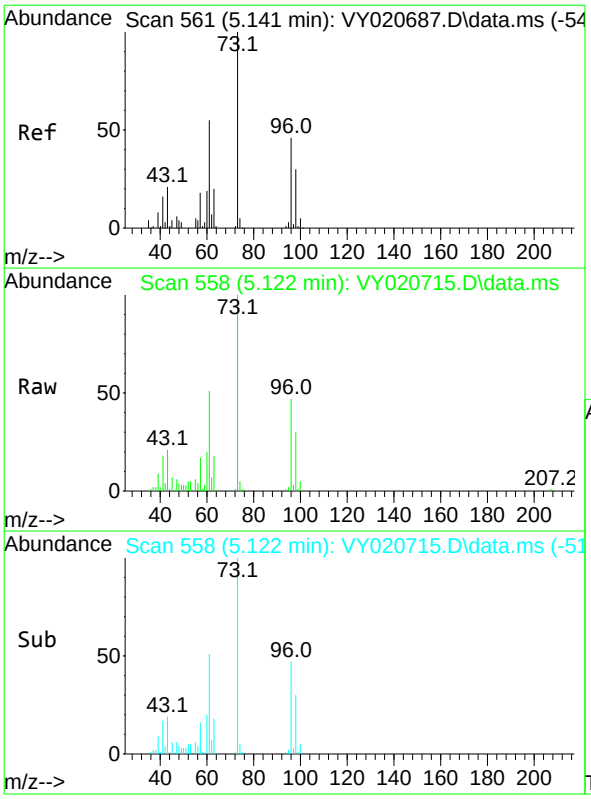



#20
Methylene Chloride
Concen: 20.675 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 84 Resp: 16773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 95.7 | 86.4 | 129.6 |
| 51 | 27.3 | 25.5 | 38.3 |
| 86 | 62.5 | 56.6 | 85.0 |

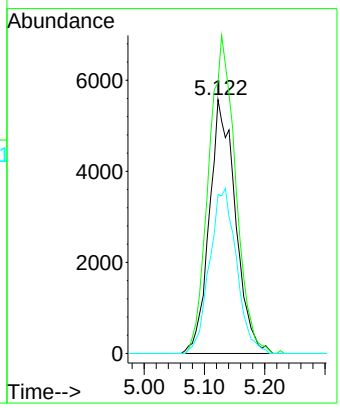





#21
trans-1,2-Dichloroethene
Concen: 18.976 ug/l
RT: 5.122 min Scan# 55
Delta R.T. -0.019 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 96 Resp: 16777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 106.8 | 96.1 | 144.1 |
| 98 | 62.6 | 52.7 | 79.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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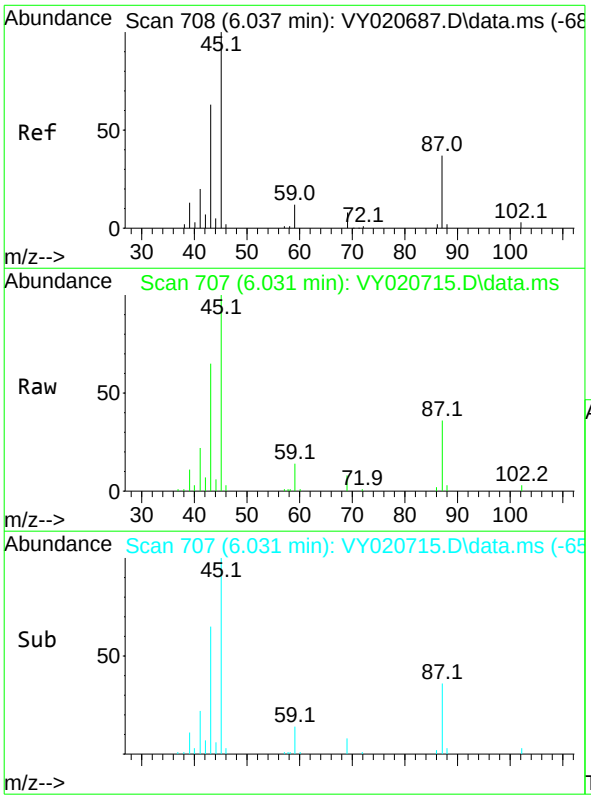
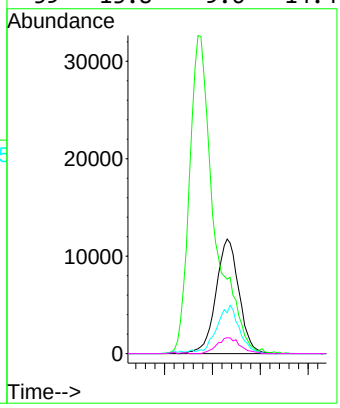
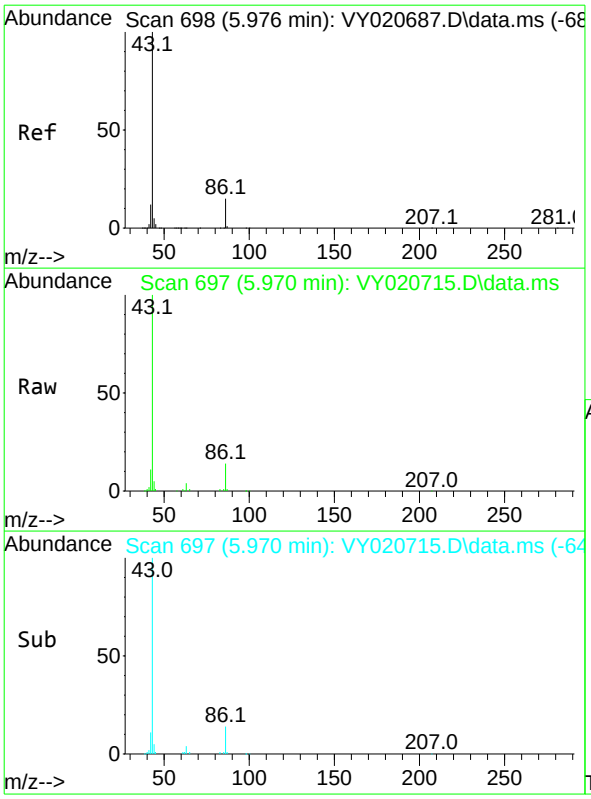



#22
Diisopropyl ether
Concen: 20.101 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 45 Resp: 39231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 64.1 | 51.3 | 76.9 |
| 87 | 35.7 | 30.6 | 46.0 |
| 59 | 13.8 | 9.6 | 14.4 |

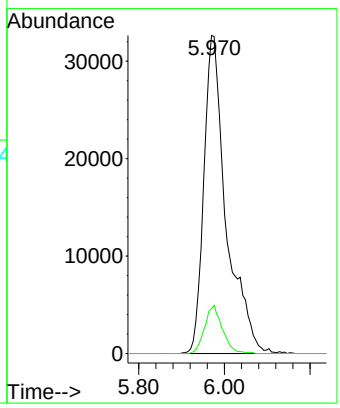





#23
Vinyl Acetate
Concen: 101.585 ug/l
RT: 5.970 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 118423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.1 | 12.0 | 18.0 |




**Instrument :**
MSVOA_Y
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VY1226SBS01

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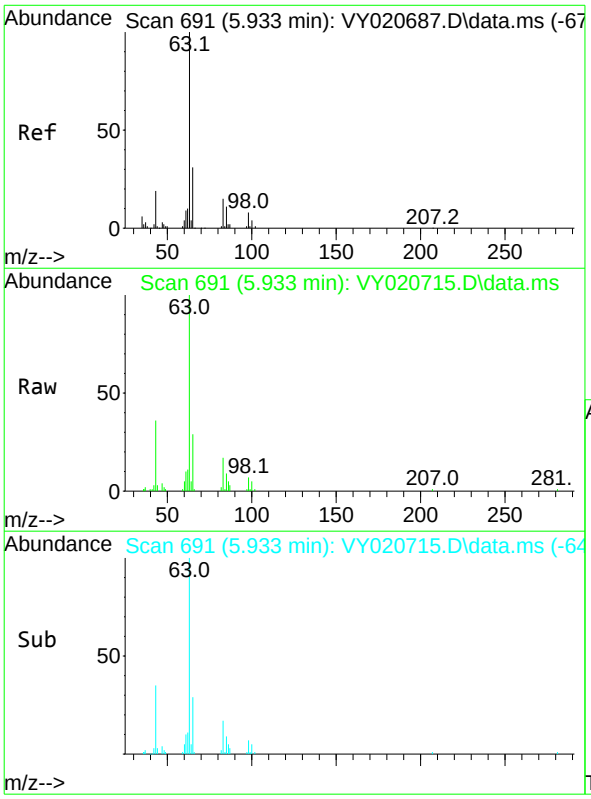
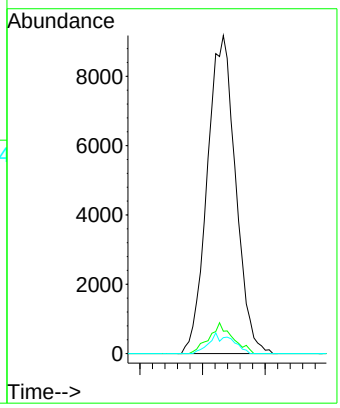
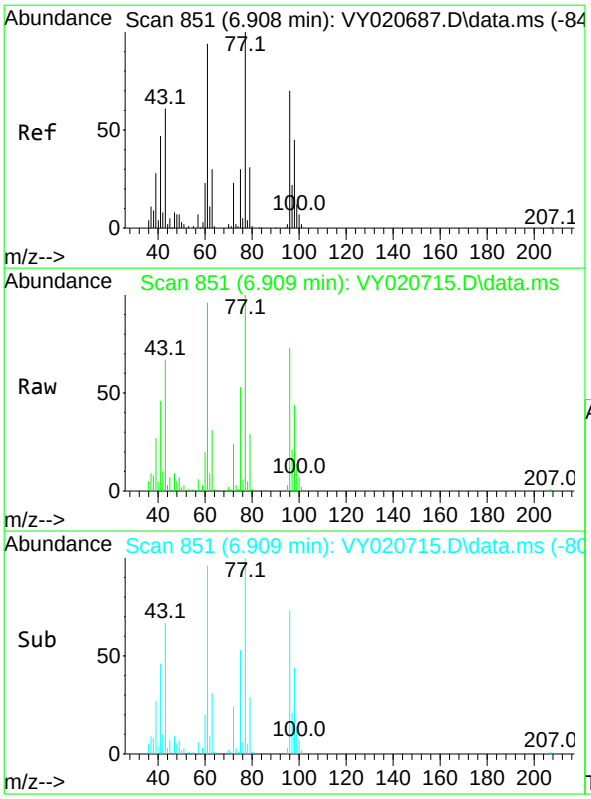



#24
1,1-Dichloroethane
Concen: 19.732 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 63 Resp: 28874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 4.0 | 12.0 |
| 100 | 5.0 | 2.1 | 6.2 |

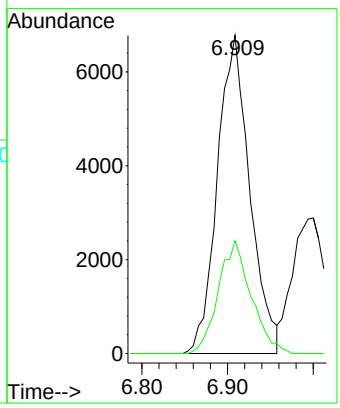





#25
2-Butanone
Concen: 105.875 ug/l
RT: 6.909 min Scan# 85
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 17840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 35.5 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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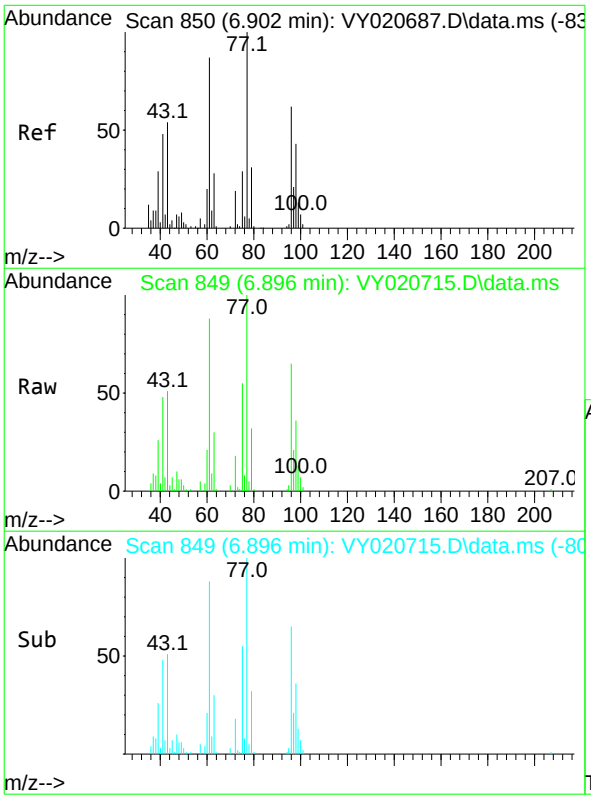
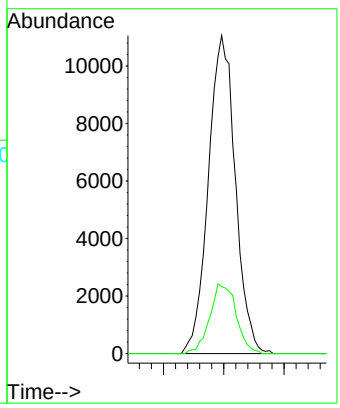
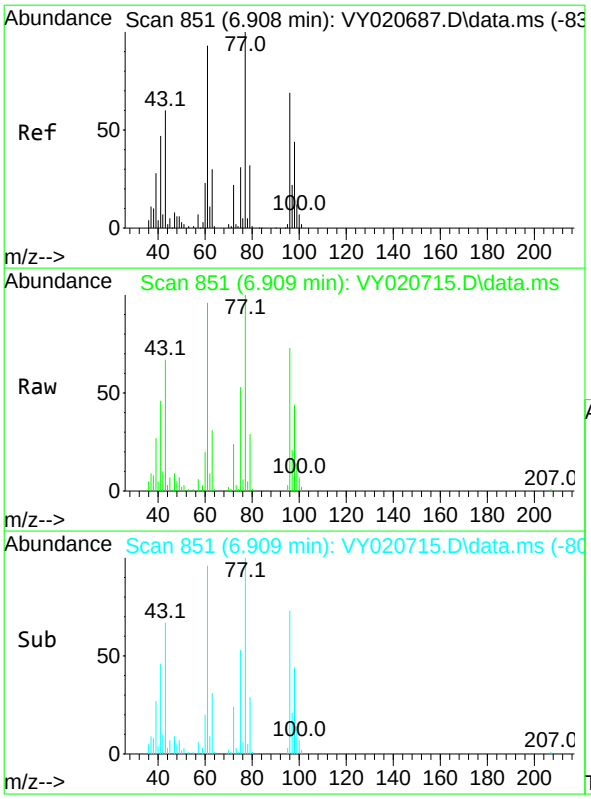



#26
2,2-Dichloropropane
Concen: 19.214 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 77 Resp: 34412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.4 | 10.8 | 32.4 |

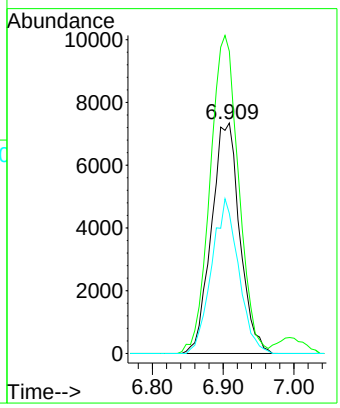





#27
cis-1,2-Dichloroethene
Concen: 19.302 ug/l
RT: 6.909 min Scan# 85
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 96 Resp: 20436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.7 | 0.0 | 277.2 |
| 98 | 64.2 | 0.0 | 131.0 |




**Instrument :**
MSVOA_Y
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VY1226SBS01

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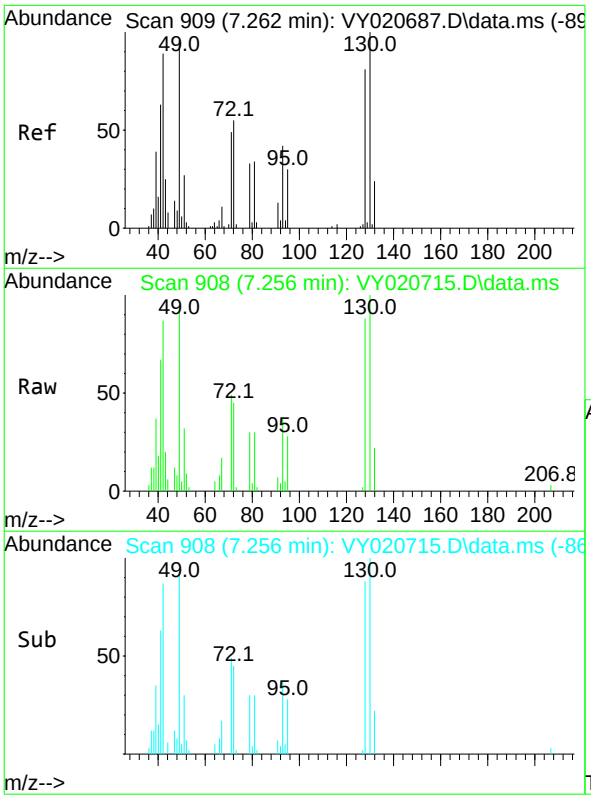
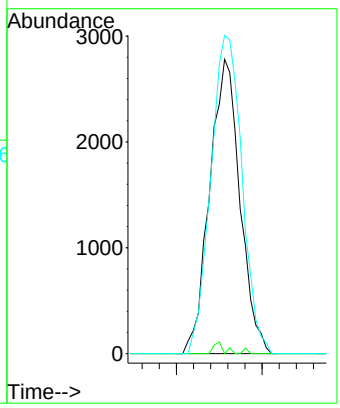
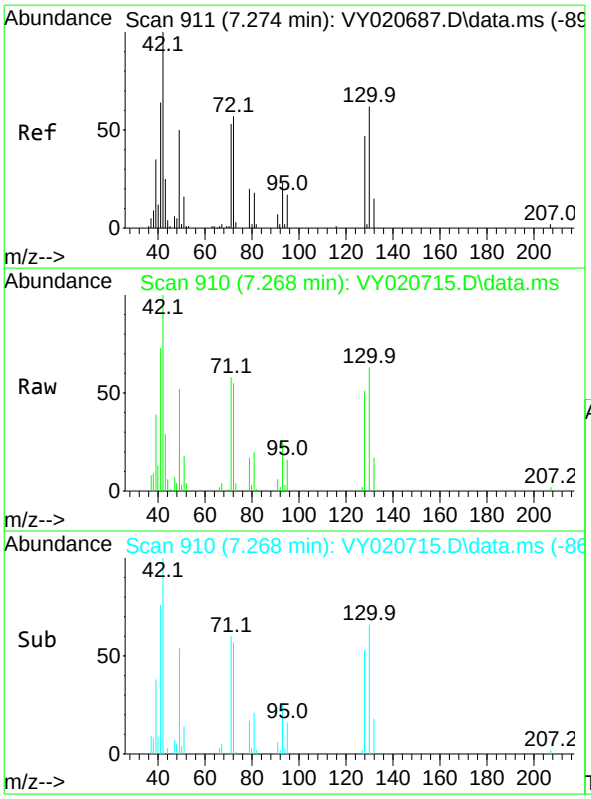



#28
Bromochloromethane
Concen: 17.648 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 49 Resp: 6829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.3 | 0.0 | 5.4 |
| 130 | 111.4 | 87.2 | 130.8 |

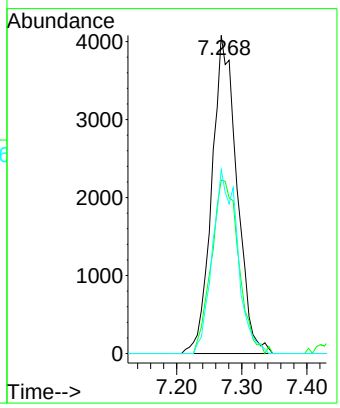





#29
Tetrahydrofuran
Concen: 105.377 ug/l
RT: 7.268 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 42 Resp: 10899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 59.1 | 47.4 | 71.0 |
| 71 | 57.6 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
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VY1226SBS01

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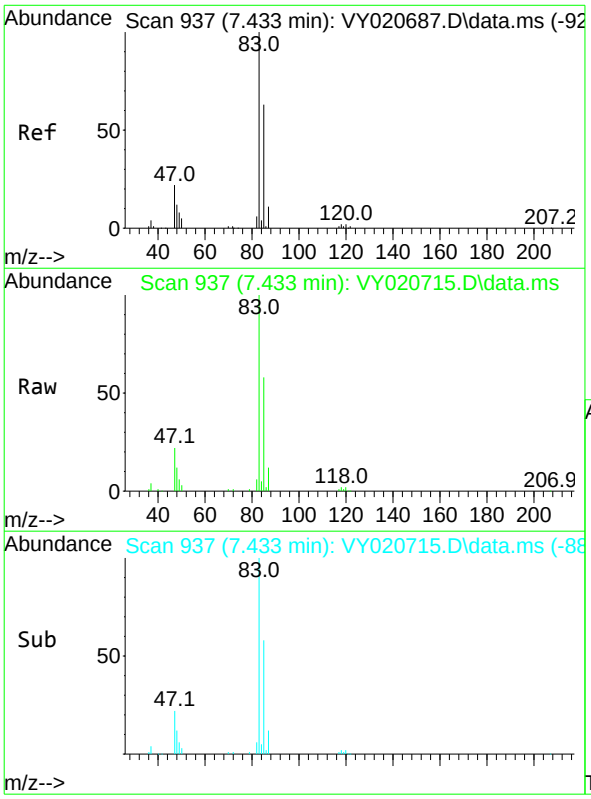
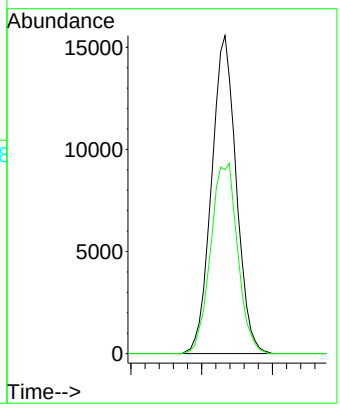
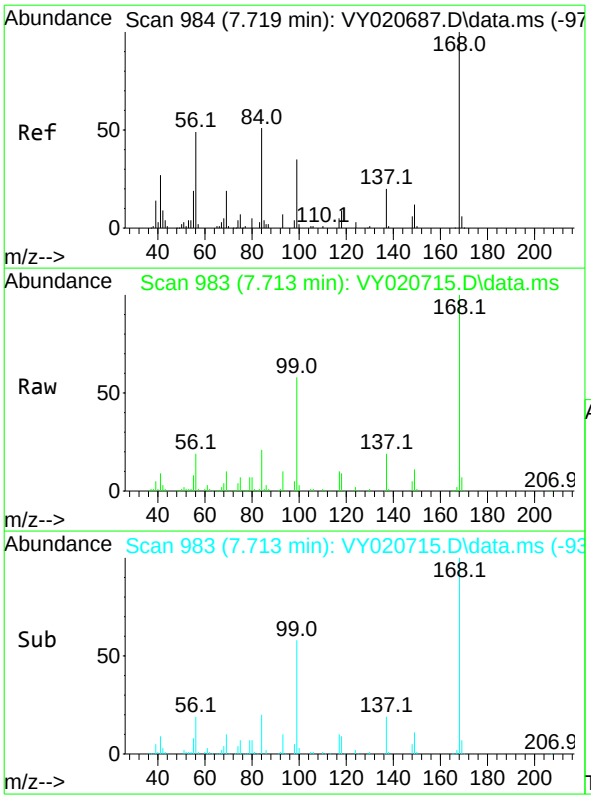



#30
Chloroform
Concen: 20.060 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 83 Resp: 37760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 57.8 | 50.2 | 75.2 |

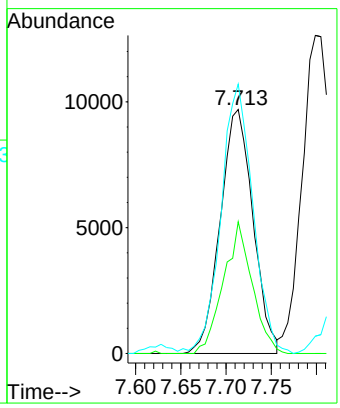





#31
Cyclohexane
Concen: 19.354 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 56 Resp: 24445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 54.0 | 31.3 | 46.9# |
| 84 | 109.5 | 83.9 | 125.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

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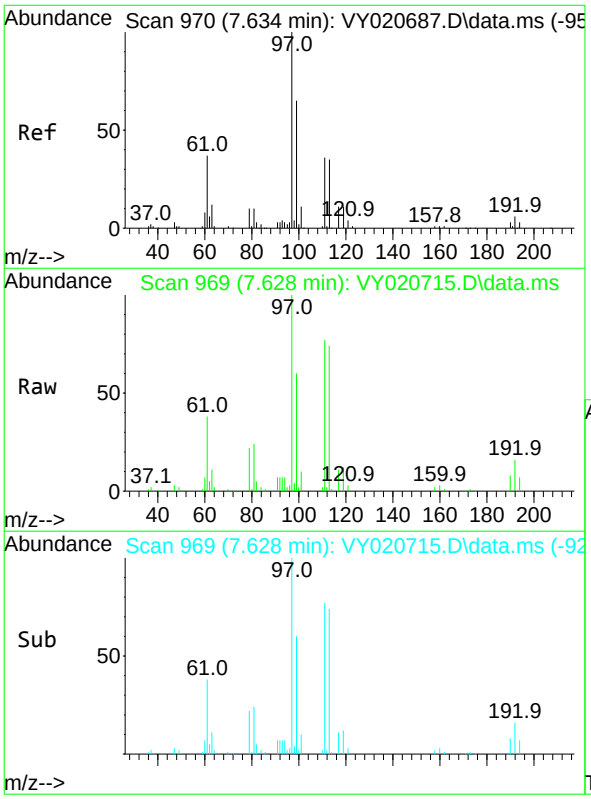
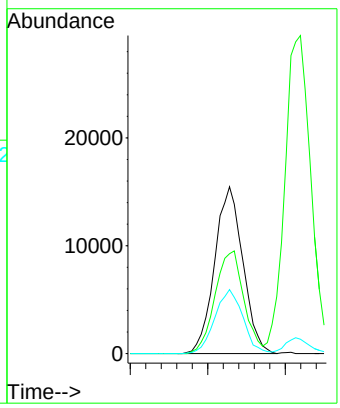
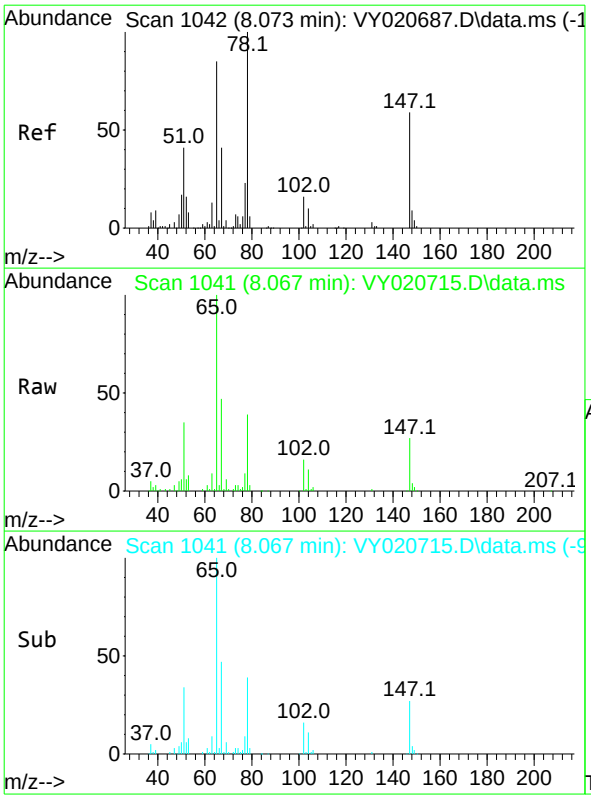



#32
1,1,1-Trichloroethane
Concen: 19.385 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 97 Resp: 39114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.9 | 51.0 | 76.6 |
| 61 | 38.2 | 30.0 | 45.0 |

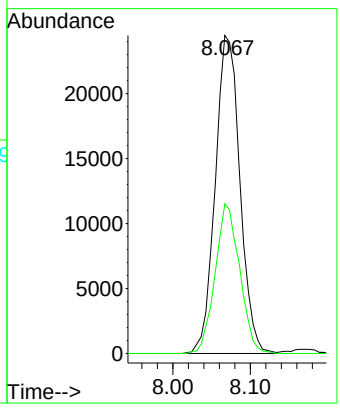





#33
1,2-Dichloroethane-d4
Concen: 55.004 ug/l
RT: 8.067 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 65 Resp: 54084

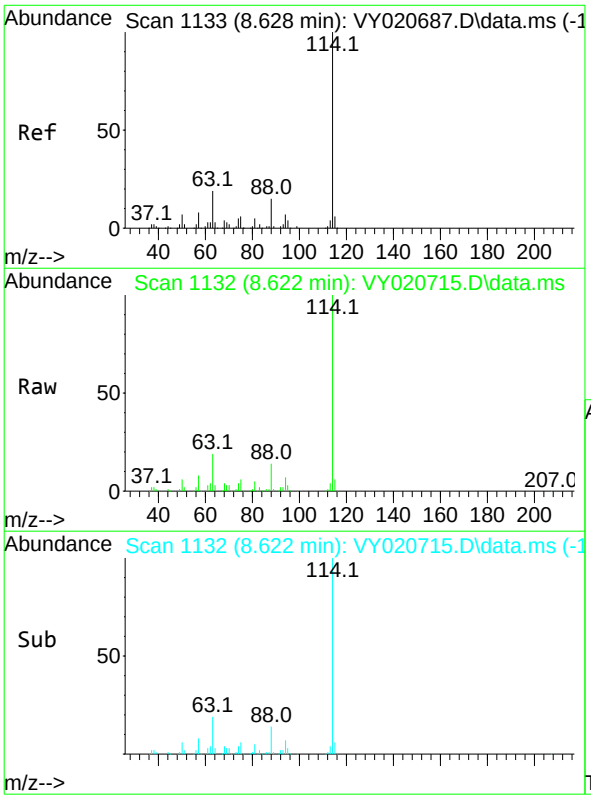
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 46.8 | 0.0 | 98.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

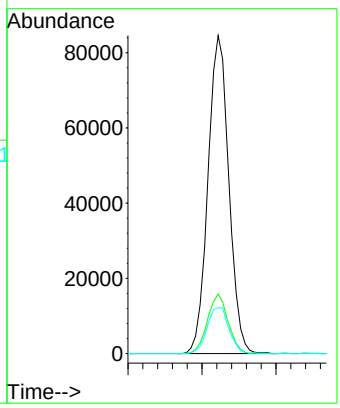
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

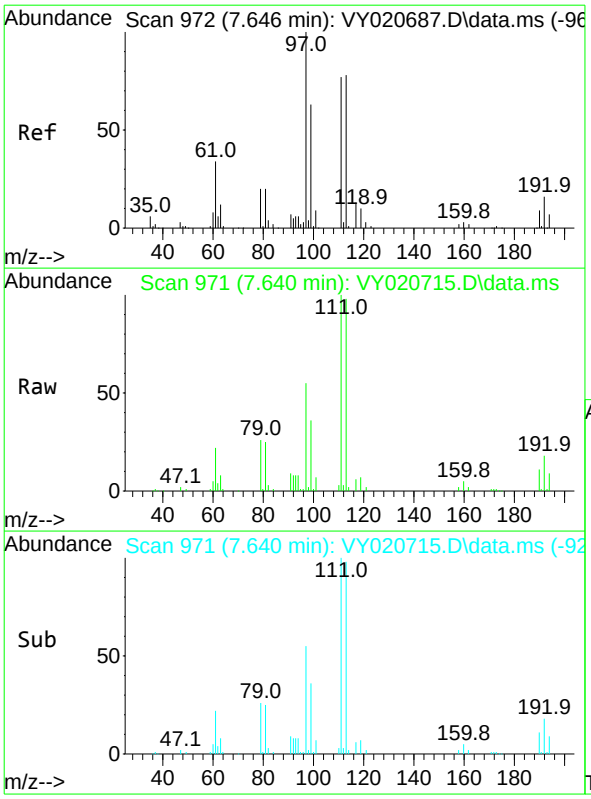



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:114 Resp: 165739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 14.4 | 0.0 | 30.4 |

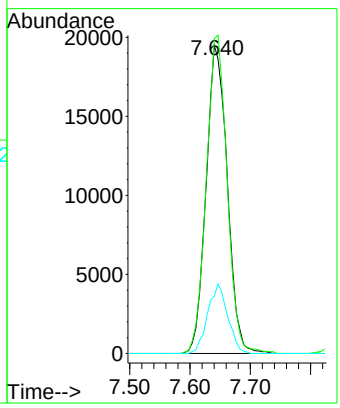





#35
Dibromofluoromethane
Concen: 52.103 ug/l
RT: 7.640 min Scan# 97
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:113 Resp: 47566

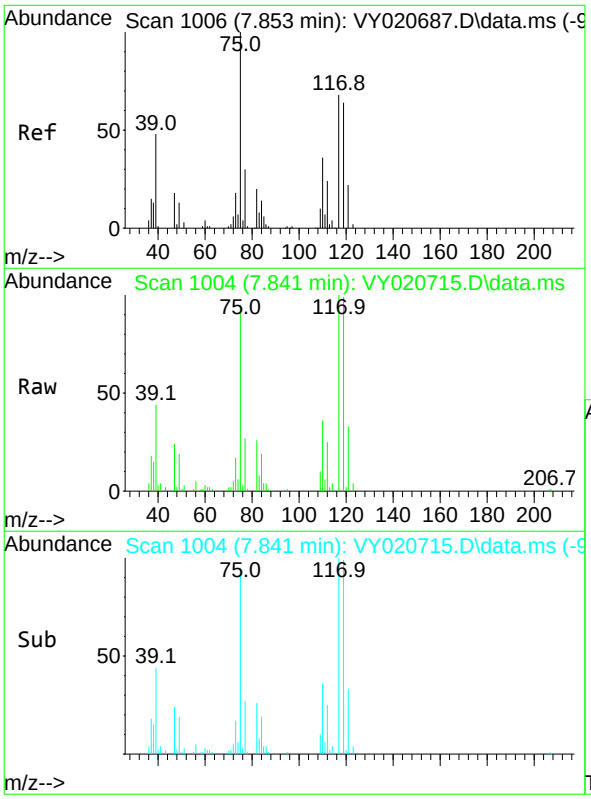
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 79.8 | 119.8 |
| 192 | 21.3 | 17.0 | 25.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

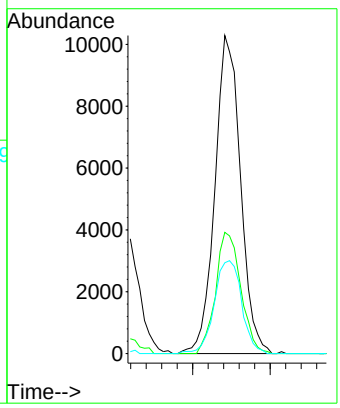
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

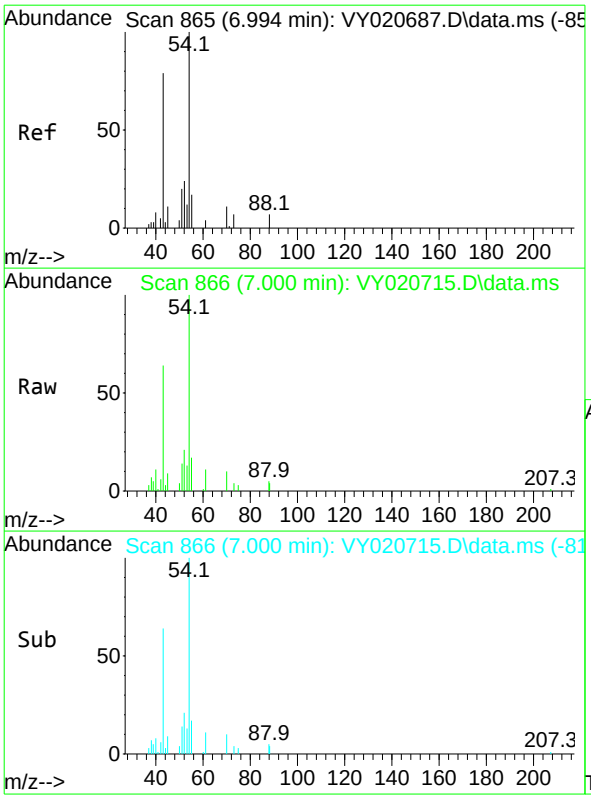



#36
1,1-Dichloropropene
Concen: 19.569 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 75 Resp: 23598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.5 | 19.6 | 58.7 |
| 77 | 31.3 | 25.1 | 37.7 |

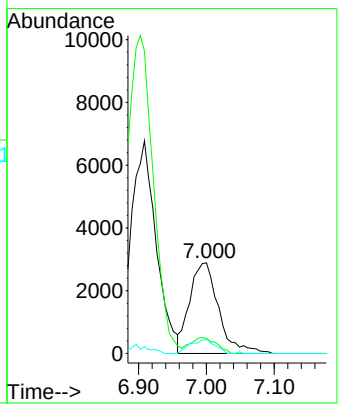





#37
Ethyl Acetate
Concen: 21.556 ug/l
RT: 7.000 min Scan# 86
Delta R.T. 0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 8566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.9 | 11.7 | 17.5 |
| 70 | 13.2 | 11.0 | 16.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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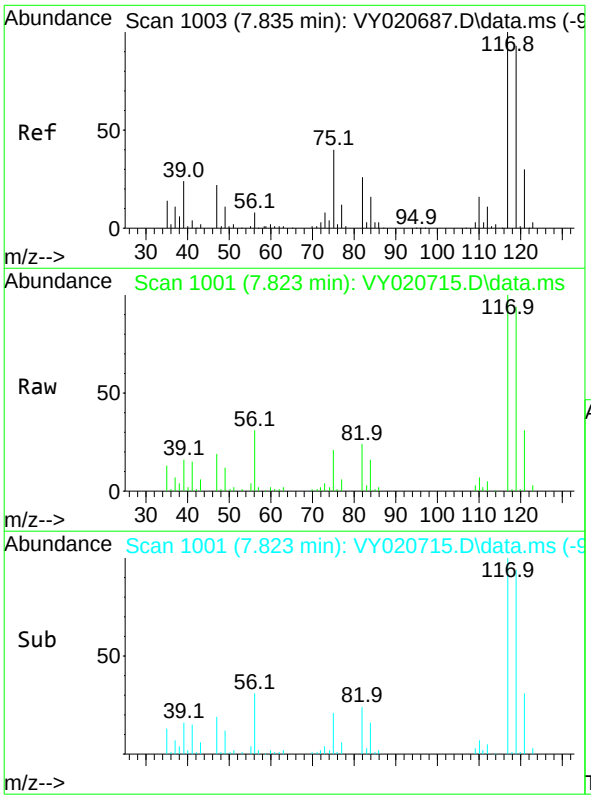
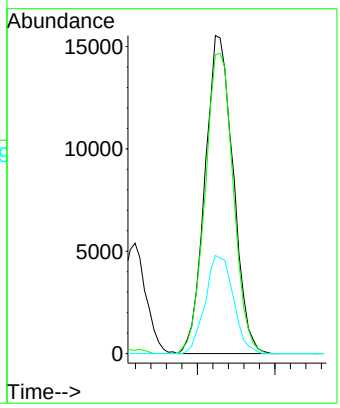
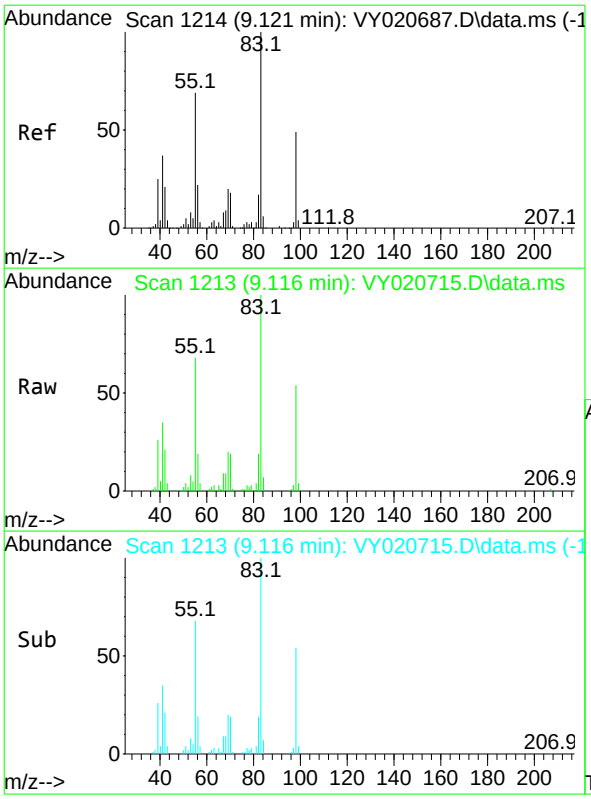



#38
Carbon Tetrachloride
Concen: 19.734 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:117 Resp: 39187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.9 | 74.4 | 111.6 |
| 121 | 30.9 | 24.2 | 36.2 |






#39
Methylcyclohexane
Concen: 19.742 ug/l
RT: 9.116 min Scan# 12
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 83 Resp: 30514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 68.0 | 55.0 | 82.4 |
| 98 | 53.7 | 39.0 | 58.6 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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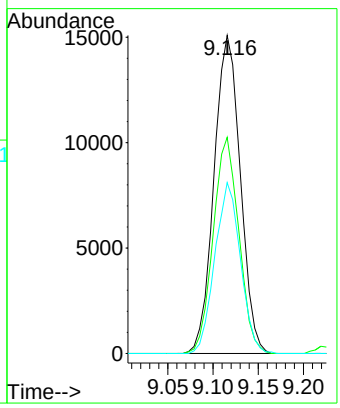
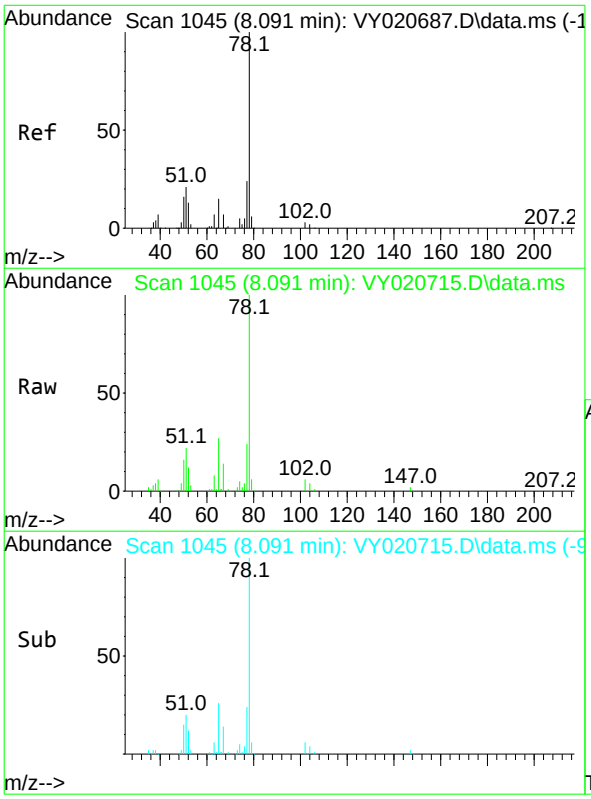
Supervised By :Semsettin Yesilyurt 12/27/2024

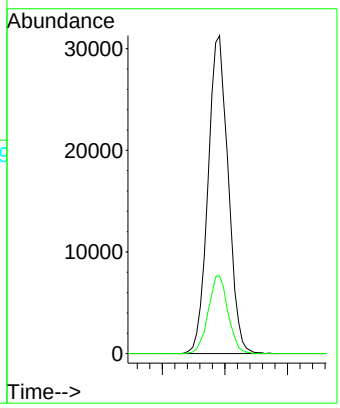


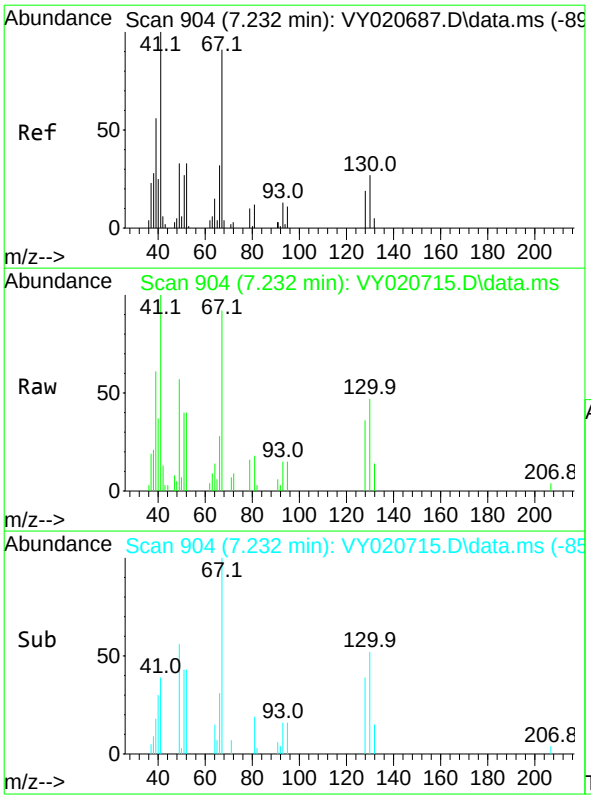




#40
Benzene
Concen: 19.987 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 78 Resp: 69851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.5 | 19.2 | 28.8 |

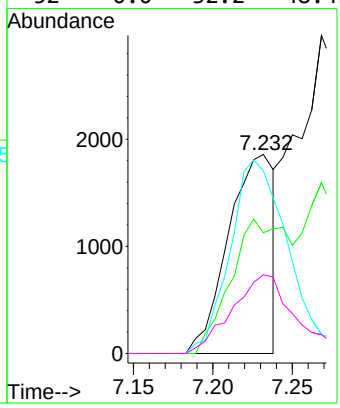





#41
Methacrylonitrile
Concen: 18.637 ug/l m
RT: 7.232 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 41 Resp: 3741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 99.4 | 46.6 | 70.0# |
| 67 | 0.0 | 74.7 | 112.1# |
| 52 | 0.0 | 32.2 | 48.4# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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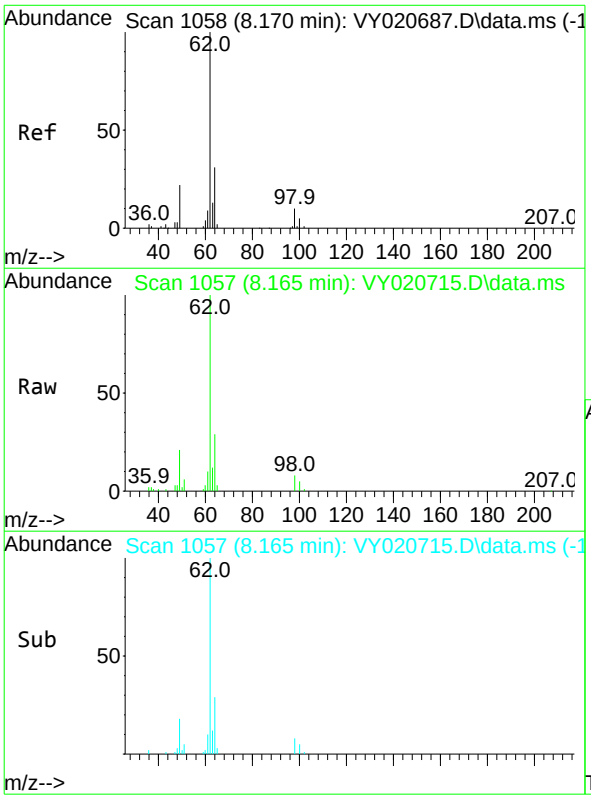
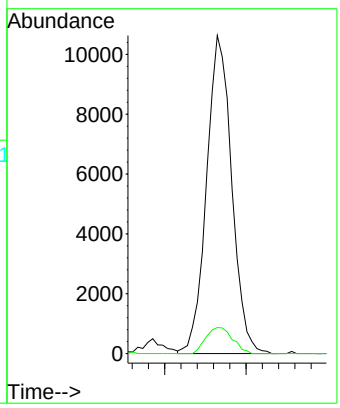
Supervised By :Semsettin Yesilyurt 12/27/2024

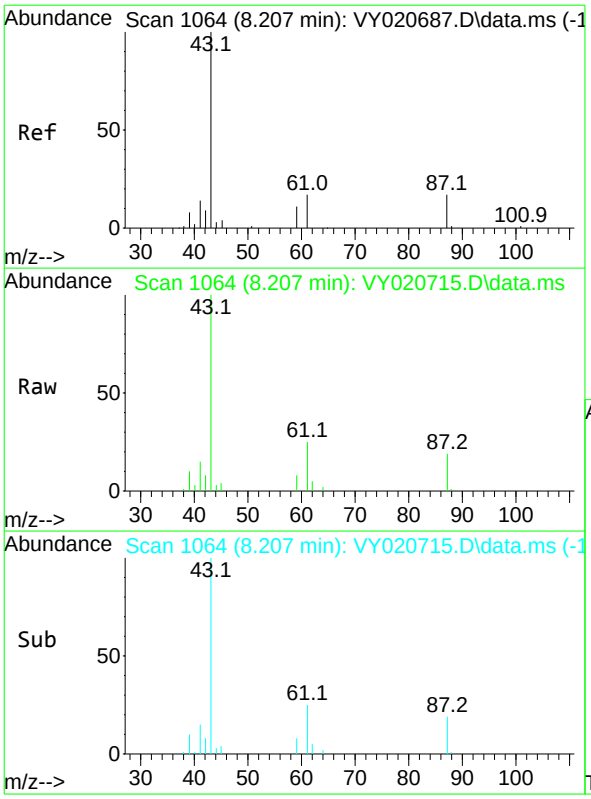



#42
1,2-Dichloroethane
Concen: 20.396 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 62 Resp: 22857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.7 | 0.0 | 16.6 |

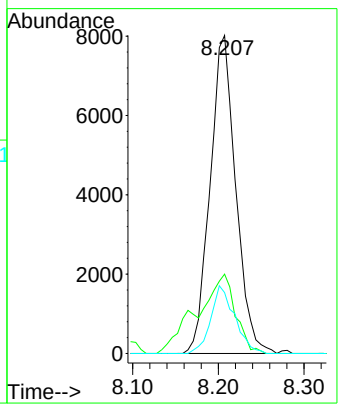





#43
Isopropyl Acetate
Concen: 19.754 ug/l
RT: 8.207 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 16685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 26.3 | 27.0 | 40.4# |
| 87 | 19.9 | 14.2 | 21.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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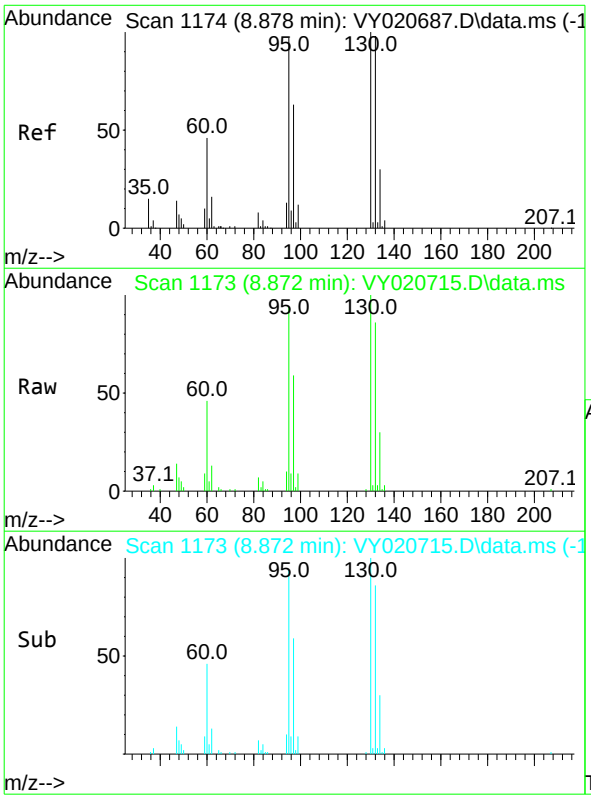
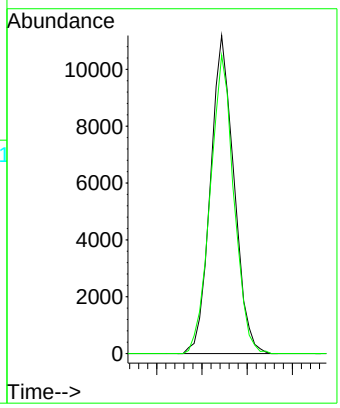
Supervised By :Semsettin Yesilyurt 12/27/2024

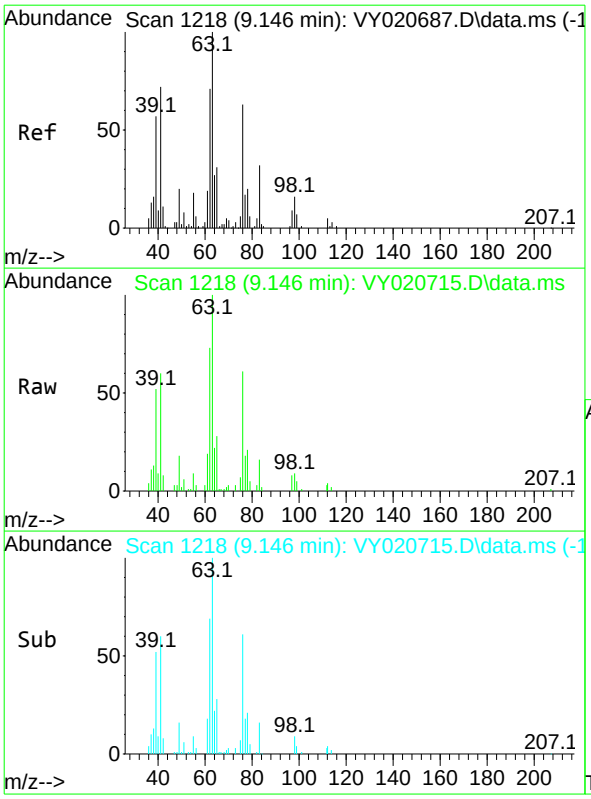



#44
Trichloroethene
Concen: 19.365 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:130 Resp: 20214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.8 | 0.0 | 194.8 |

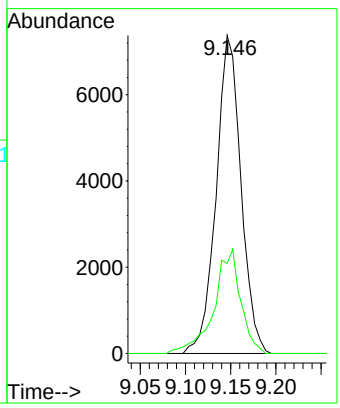





#45
1,2-Dichloropropane
Concen: 19.891 ug/l
RT: 9.146 min Scan# 12
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 63 Resp: 14072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 28.3 | 24.6 | 36.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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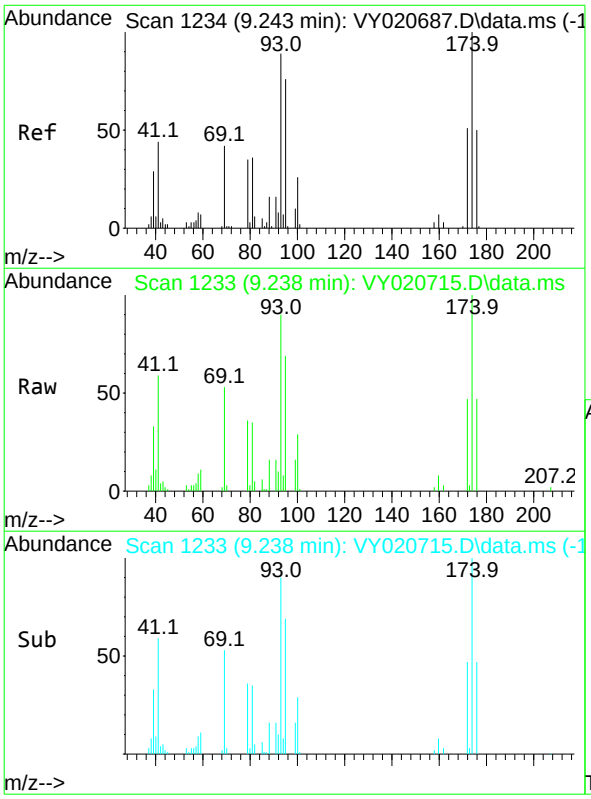
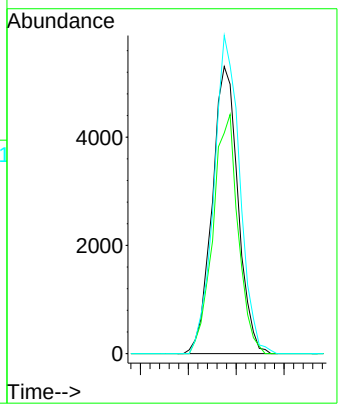
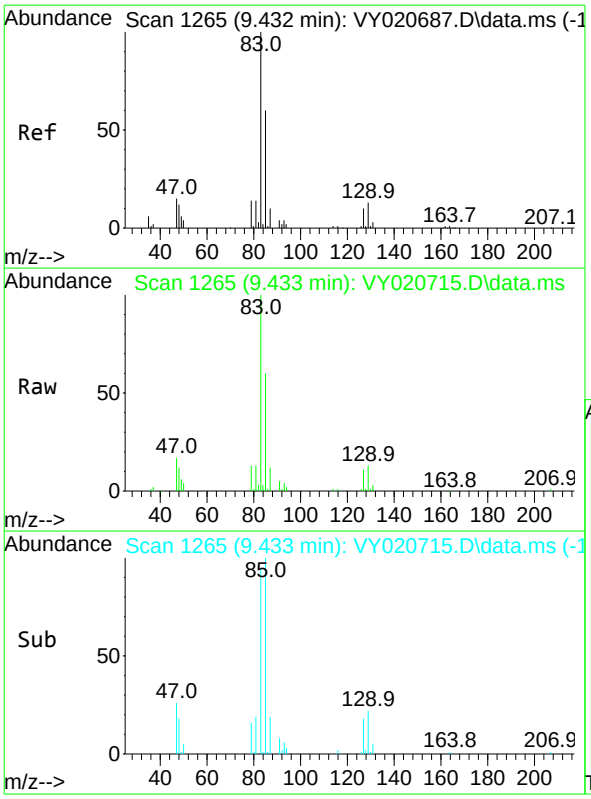



#46
Dibromomethane
Concen: 20.339 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 93 Resp: 9956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.6 | 67.8 | 101.8 |
| 174 | 110.8 | 89.4 | 134.0 |

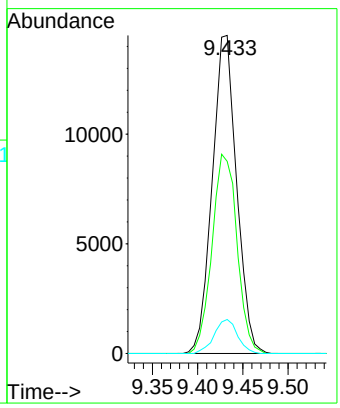





#47
Bromodichloromethane
Concen: 19.608 ug/l
RT: 9.433 min Scan# 12
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 83 Resp: 27211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.4 | 47.6 | 71.4 |
| 127 | 10.7 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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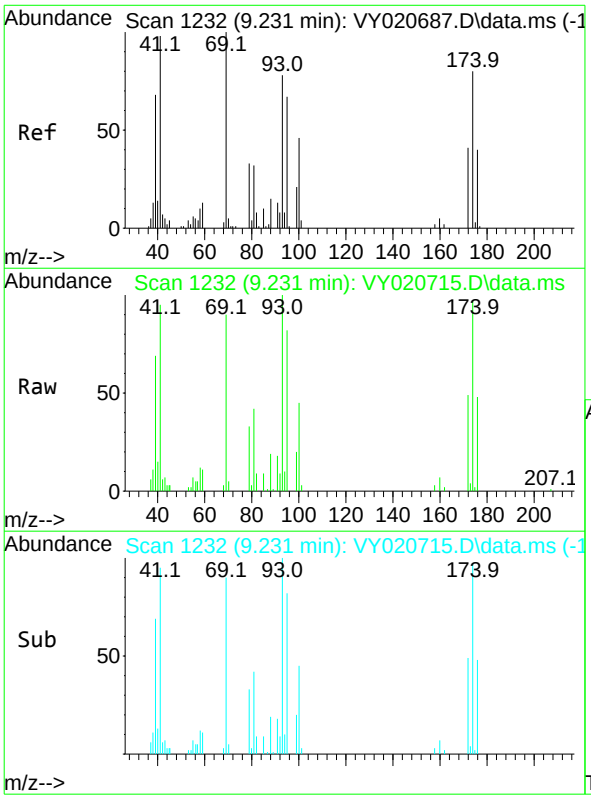
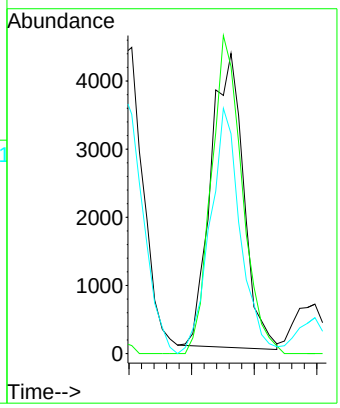
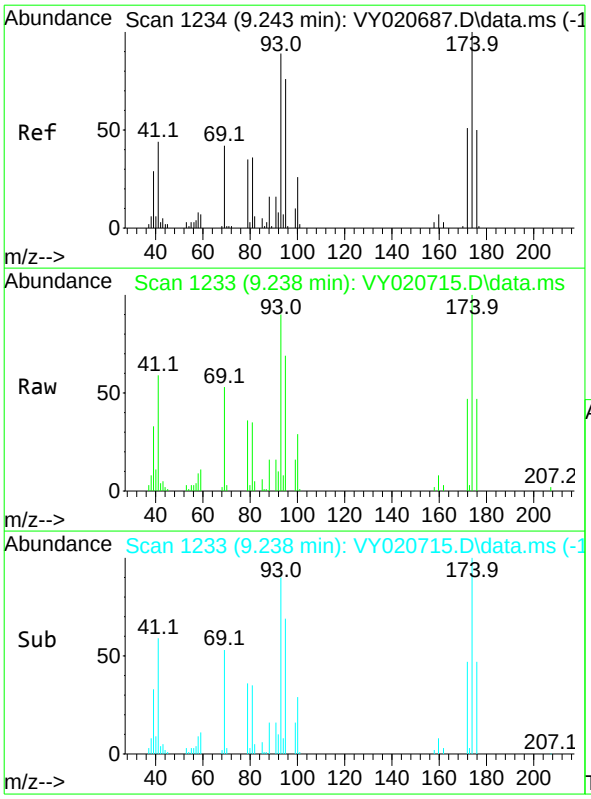



#48
Methyl methacrylate
Concen: 19.912 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 41 Resp: 7854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 101.9 | 83.1 | 124.7 |
| 39 | 76.9 | 57.3 | 85.9 |






#49
1,4-Dioxane
Concen: 445.671 ug/l
RT: 9.238 min Scan# 12
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 88 Resp: 2078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 22.1 | 33.1 |
| 58 | 62.4 | 46.7 | 70.1 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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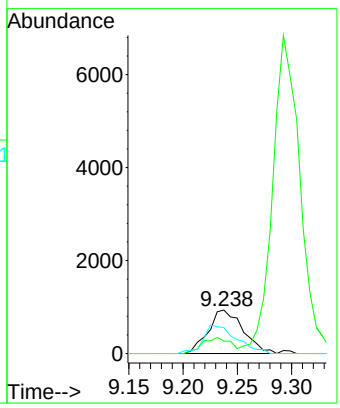
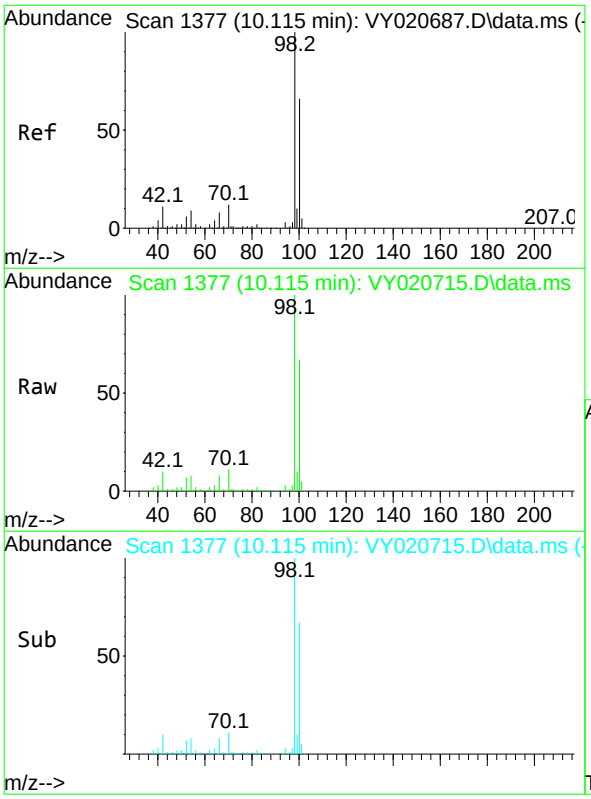
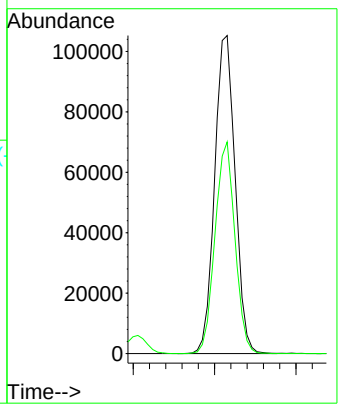


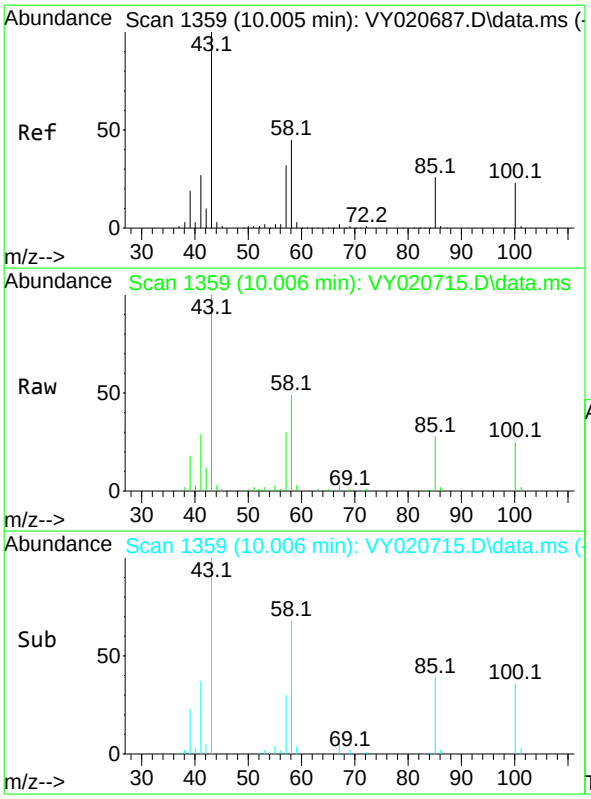




#50
Toluene-d8
Concen: 50.606 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 98 Resp: 183793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.2 | 78.4 |

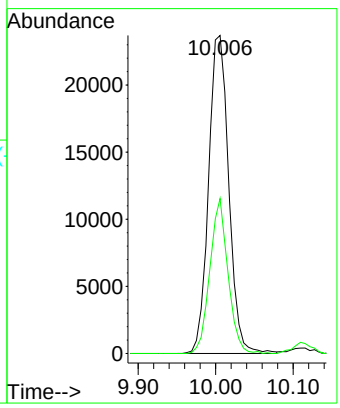





#51
4-Methyl-2-Pentanone
Concen: 105.031 ug/l
RT: 10.006 min Scan# 13
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 42819

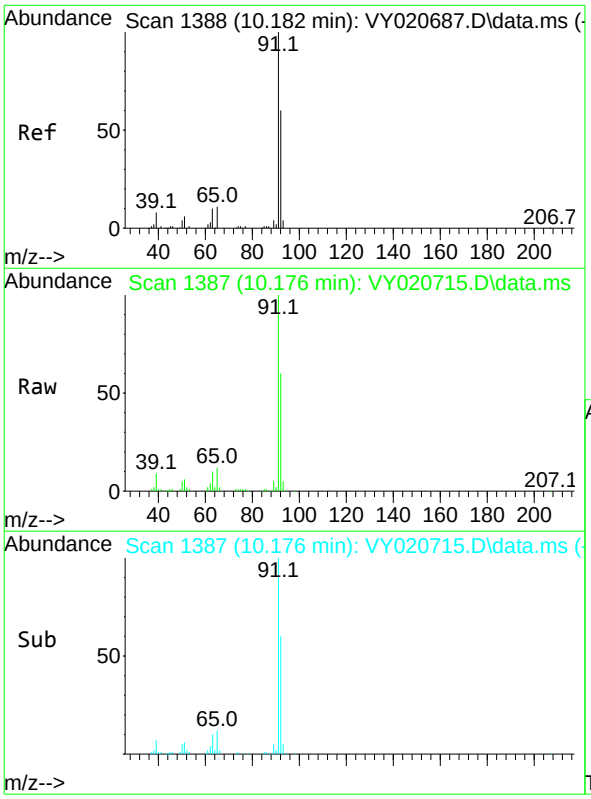
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.7 | 35.1 | 52.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

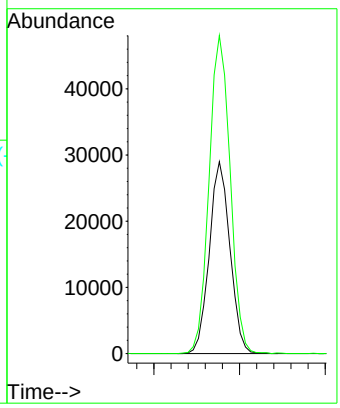
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

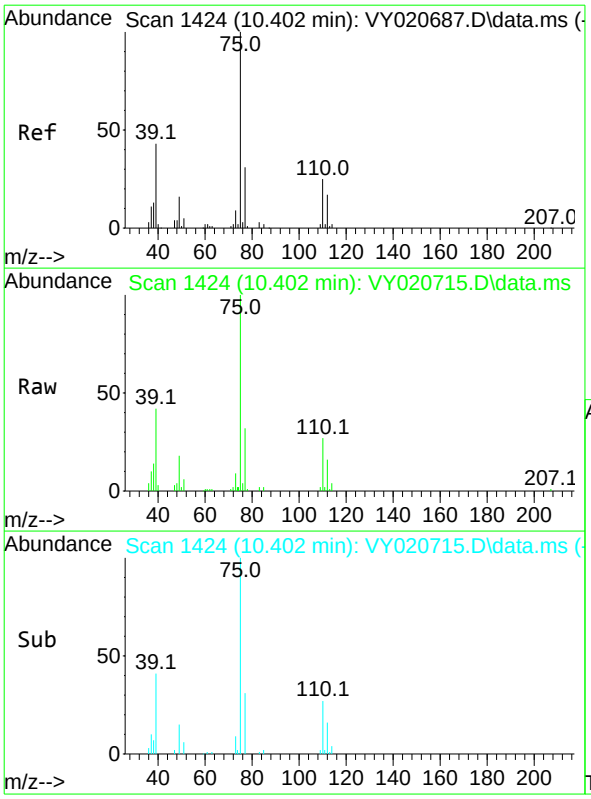



#52
Toluene
Concen: 20.266 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 92 Resp: 48544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.4 | 137.7 | 206.5 |

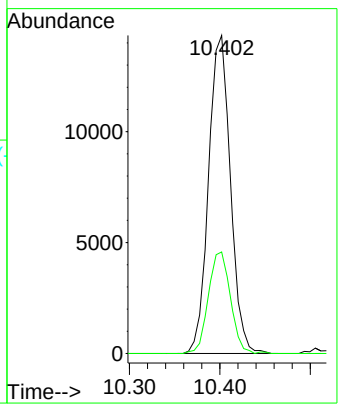





#53
t-1,3-Dichloropropene
Concen: 19.744 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 75 Resp: 24065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.1 | 37.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 12/27/2024
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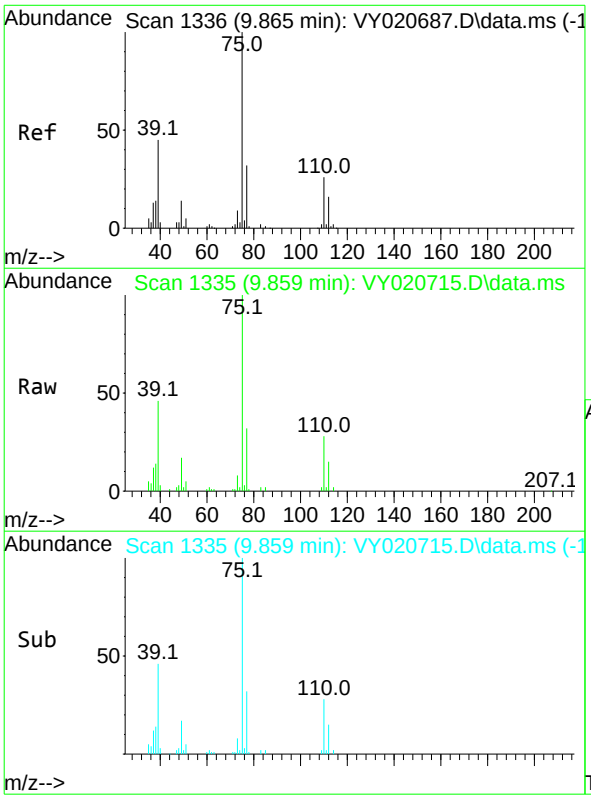
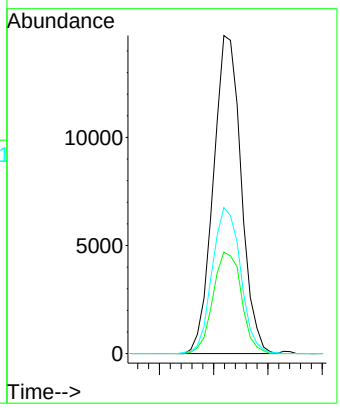
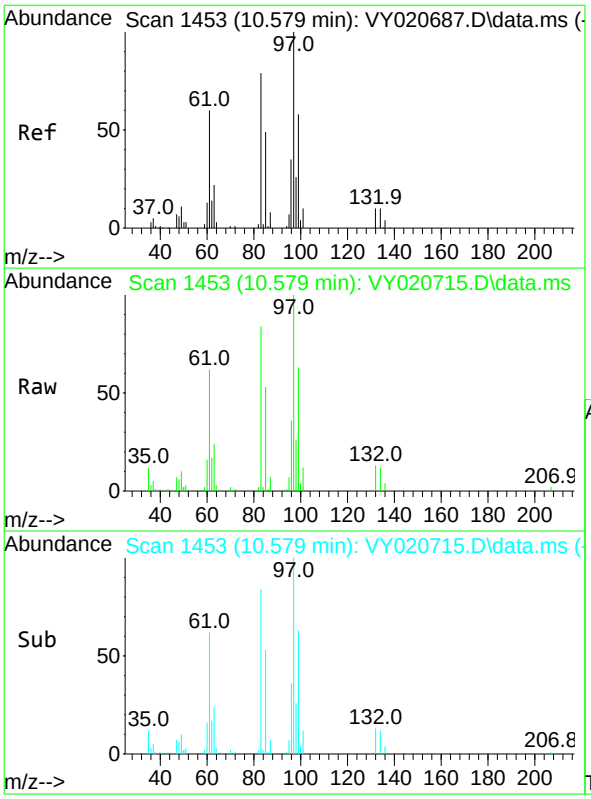



#54
cis-1,3-Dichloropropene
Concen: 19.616 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 75 Resp: 26207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.6 | 38.4 |
| 39 | 45.9 | 36.2 | 54.2 |

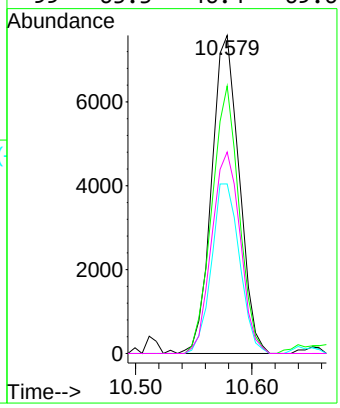





#55
1,1,2-Trichloroethane
Concen: 20.014 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 97 Resp: 12505

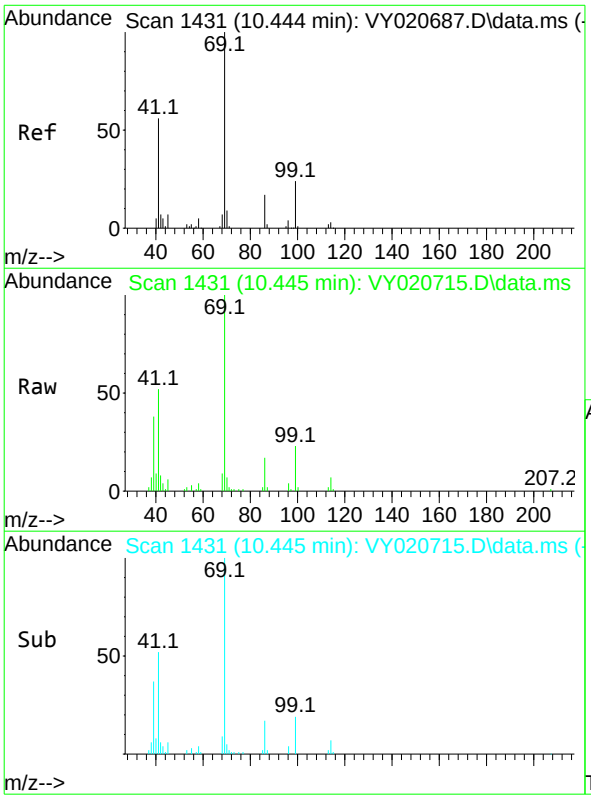
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.1 | 63.1 | 94.7 |
| 85 | 53.3 | 39.5 | 59.3 |
| 99 | 63.3 | 46.4 | 69.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

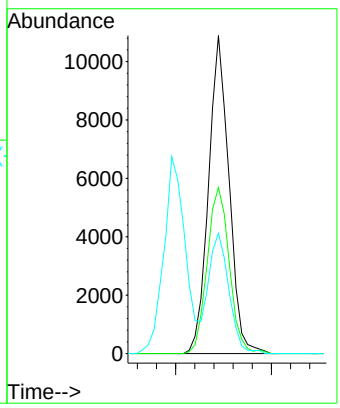
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

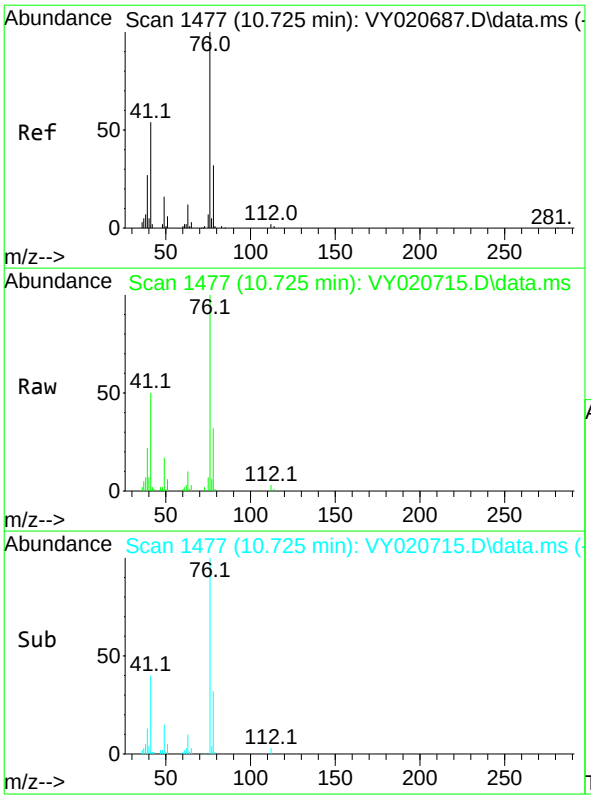



#56
Ethyl methacrylate
Concen: 19.708 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 69 Resp: 16177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 56.5 | 43.8 | 65.6 |
| 39 | 37.1 | 32.0 | 48.0 |

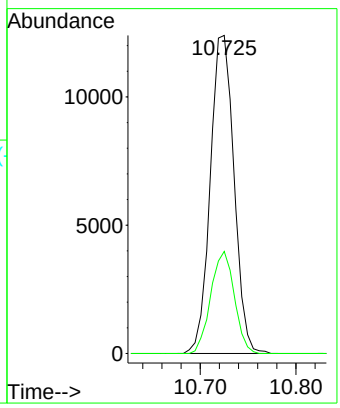





#57
1,3-Dichloropropane
Concen: 21.046 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 76 Resp: 21343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 25.0 | 37.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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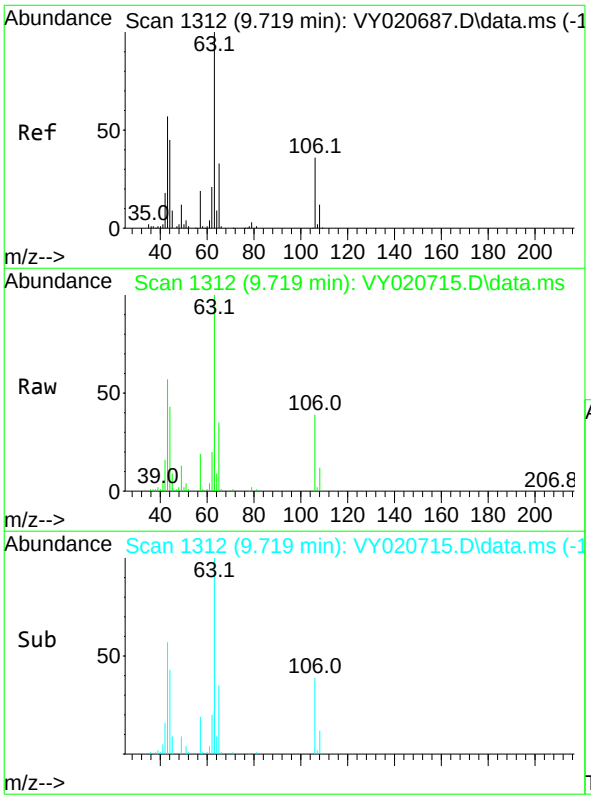
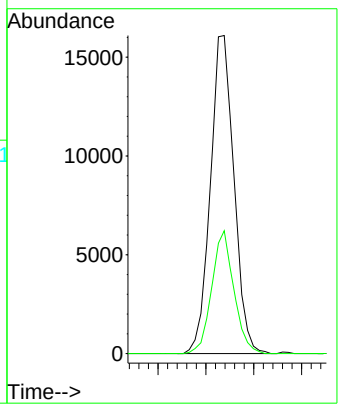
Supervised By :Semsettin Yesilyurt 12/27/2024

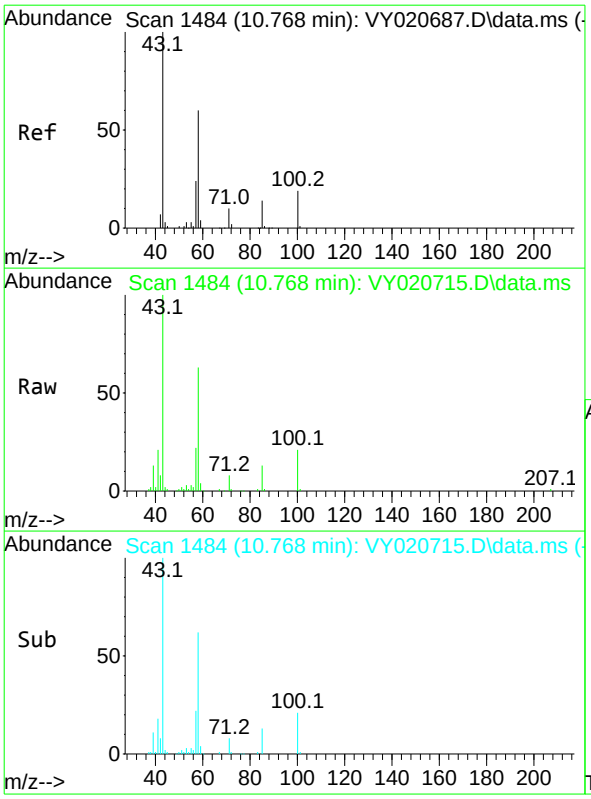



#58
2-Chloroethyl Vinyl ether
Concen: 96.265 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 63 Resp: 27555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 36.1 | 29.1 | 43.7 |

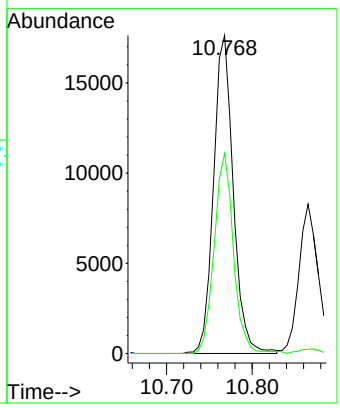





#59
2-Hexanone
Concen: 104.703 ug/l
RT: 10.768 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 28183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 61.5 | 30.1 | 90.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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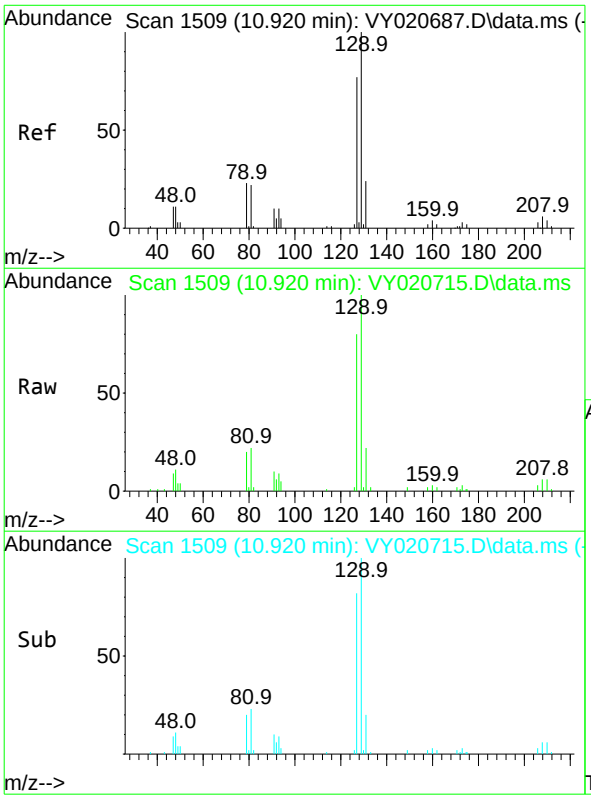
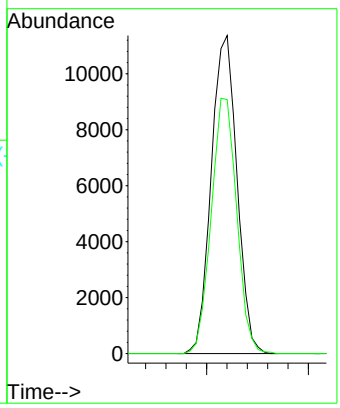
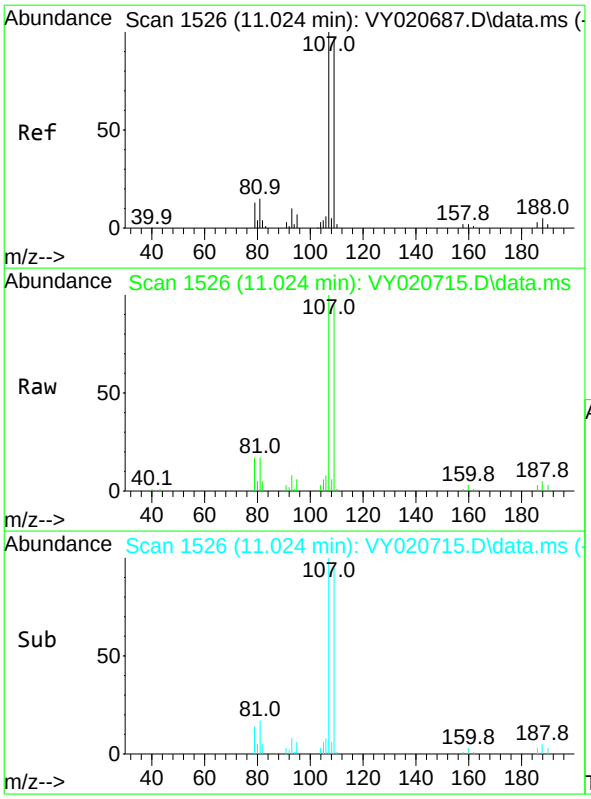



#60
Dibromochloromethane
Concen: 19.763 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:129 Resp: 19953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.5 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 20.222 ug/l
RT: 11.024 min Scan# 15
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:107 Resp: 11889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.5 | 75.5 | 113.3 |

**Manual Integrations**
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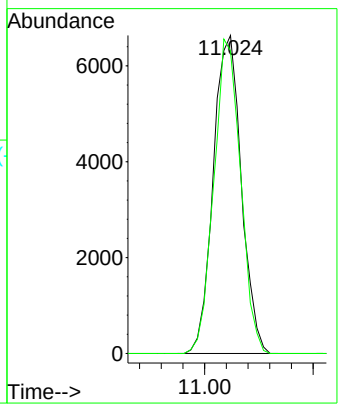
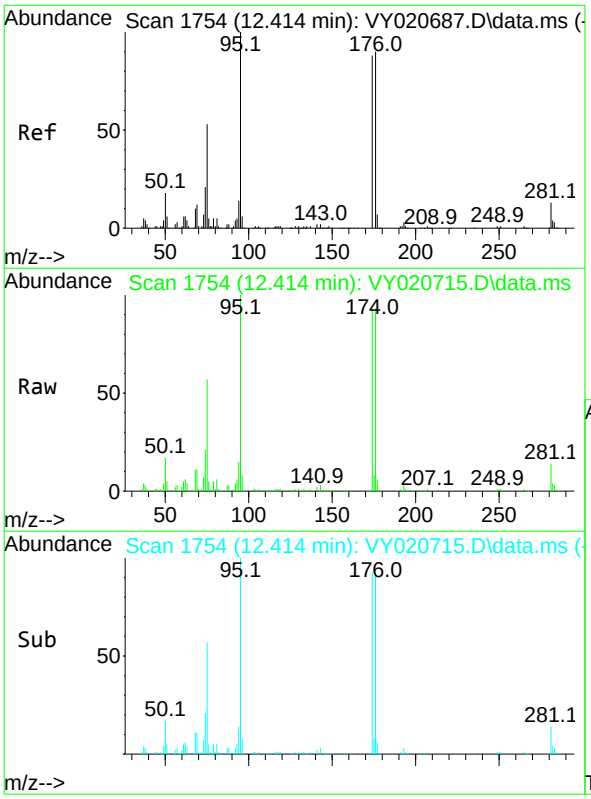
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

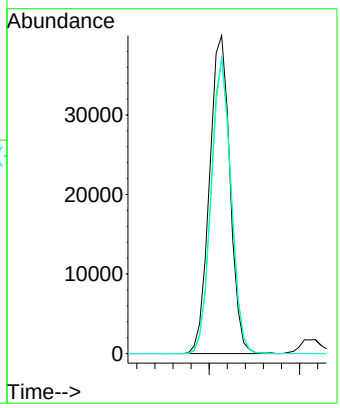


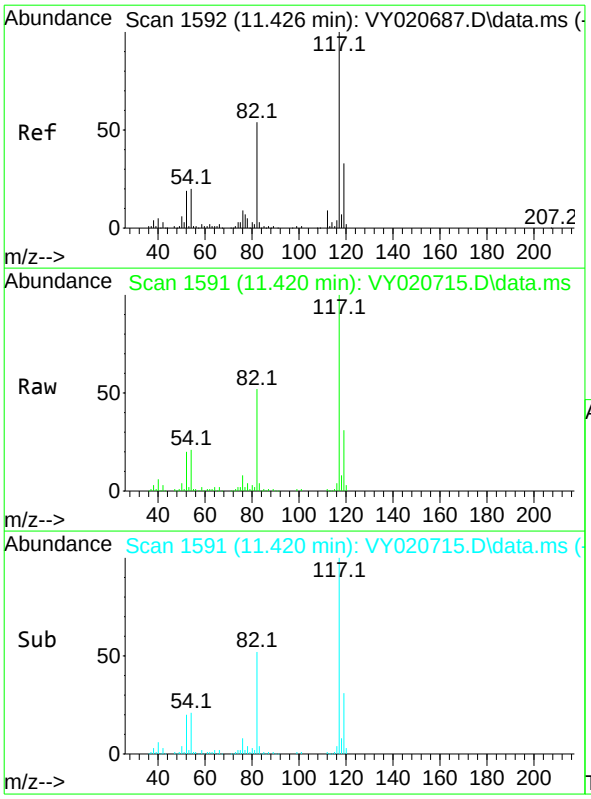




#62
4-Bromofluorobenzene
Concen: 51.825 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 95 Resp: 62876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.0 | 0.0 | 179.2 |
| 176 | 89.4 | 0.0 | 179.8 |

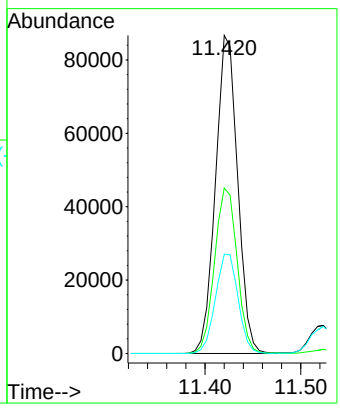





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:117 Resp: 139363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.0 | 43.4 | 65.2 |
| 119 | 31.2 | 26.6 | 39.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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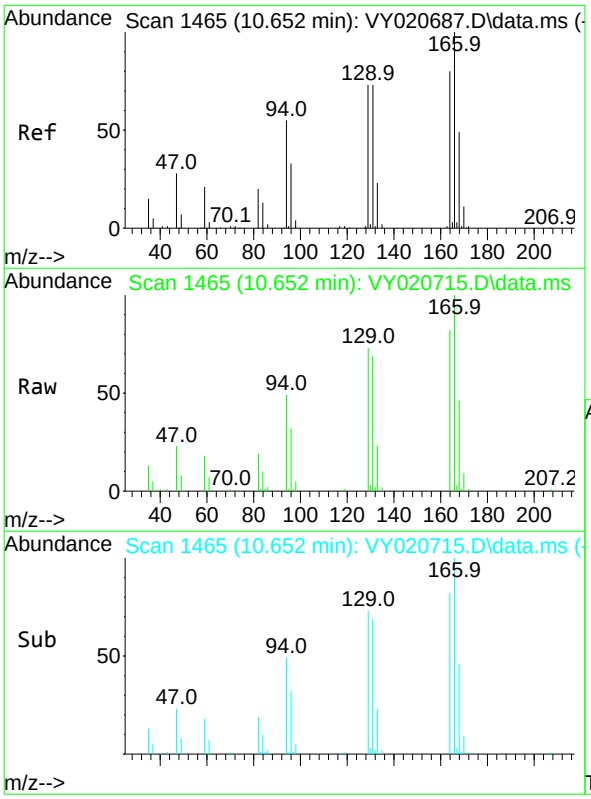
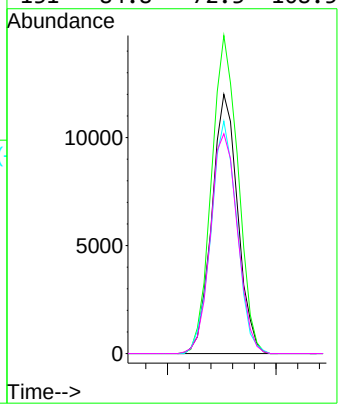
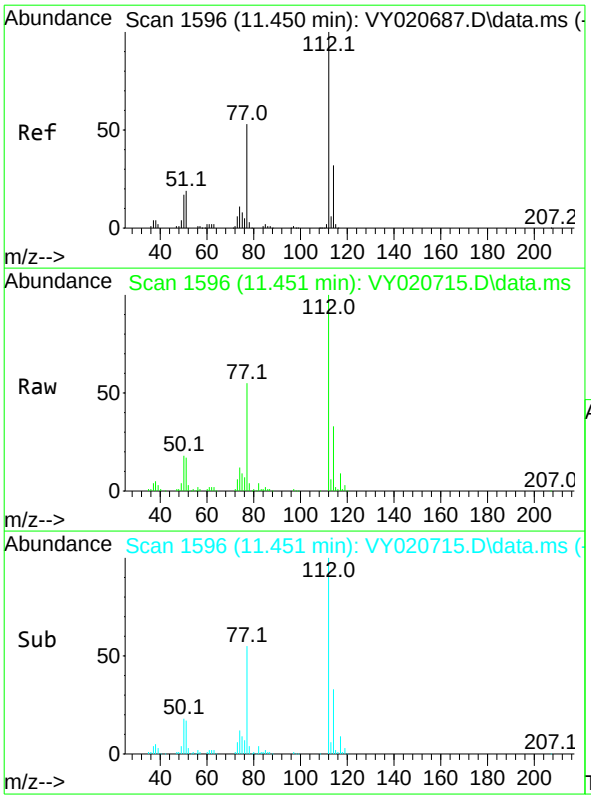



#64
Tetrachloroethene
Concen: 20.877 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:164 Resp: 19878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.7 | 99.6 | 149.4 |
| 129 | 89.6 | 73.0 | 109.4 |
| 131 | 84.8 | 72.3 | 108.5 |

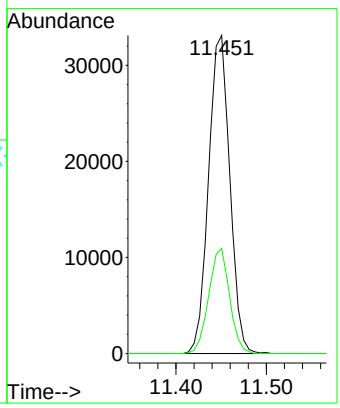





#65
Chlorobenzene
Concen: 19.832 ug/l
RT: 11.451 min Scan# 15
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:112 Resp: 54119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.1 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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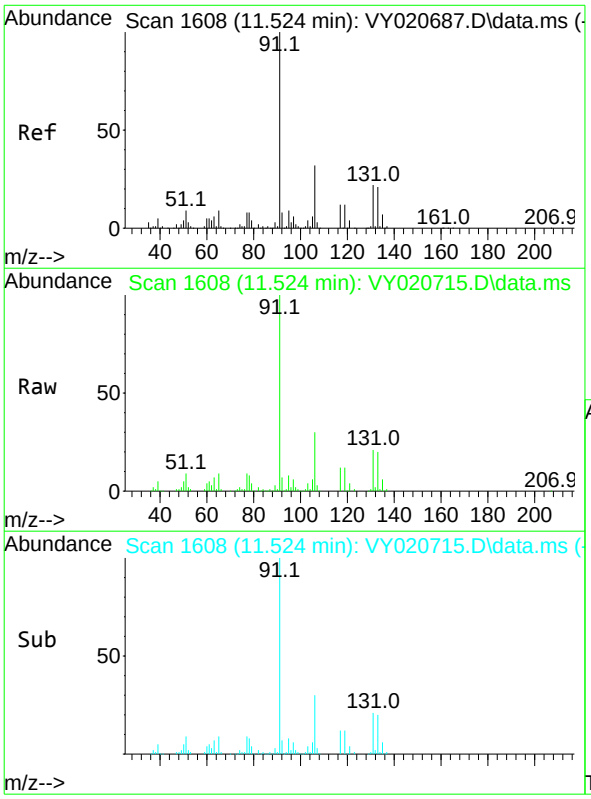
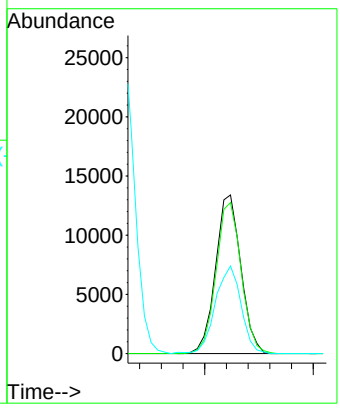
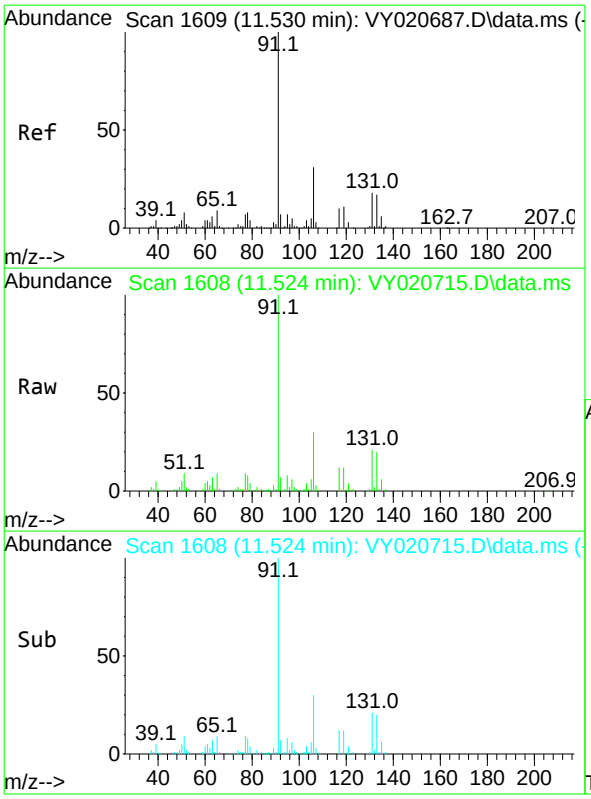



#66
1,1,1,2-Tetrachloroethane
Concen: 20.493 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:131 Resp: 21666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.5 | 48.6 | 145.9 |
| 119 | 56.2 | 28.4 | 85.3 |

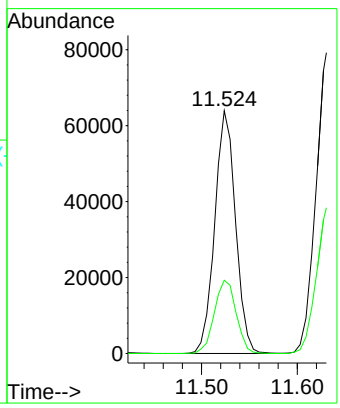





#67
Ethyl Benzene
Concen: 20.244 ug/l
RT: 11.524 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 91 Resp: 96550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.2 | 24.5 | 36.7 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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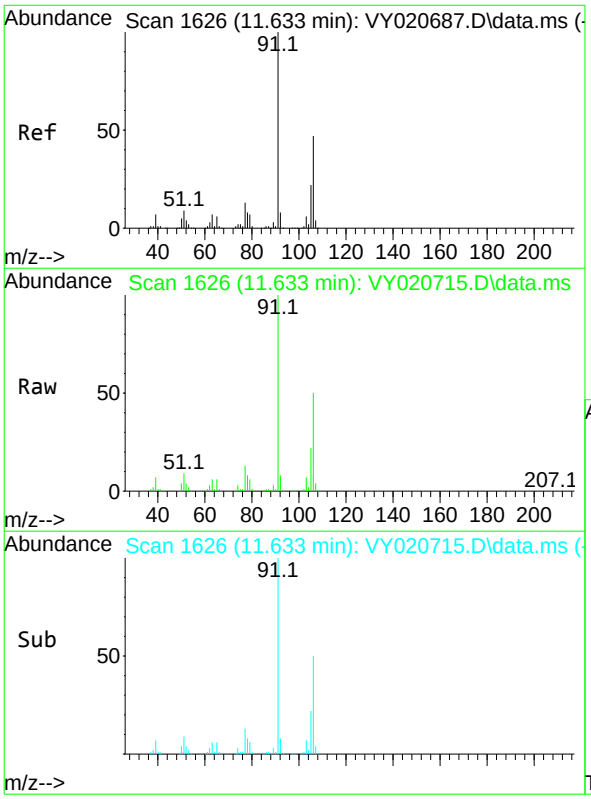
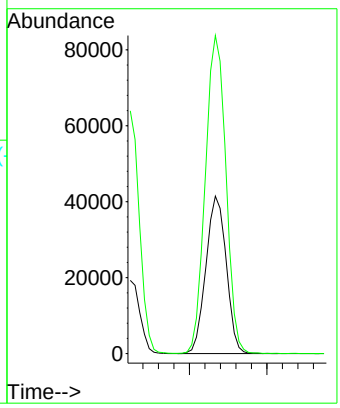
Supervised By :Semsettin Yesilyurt 12/27/2024

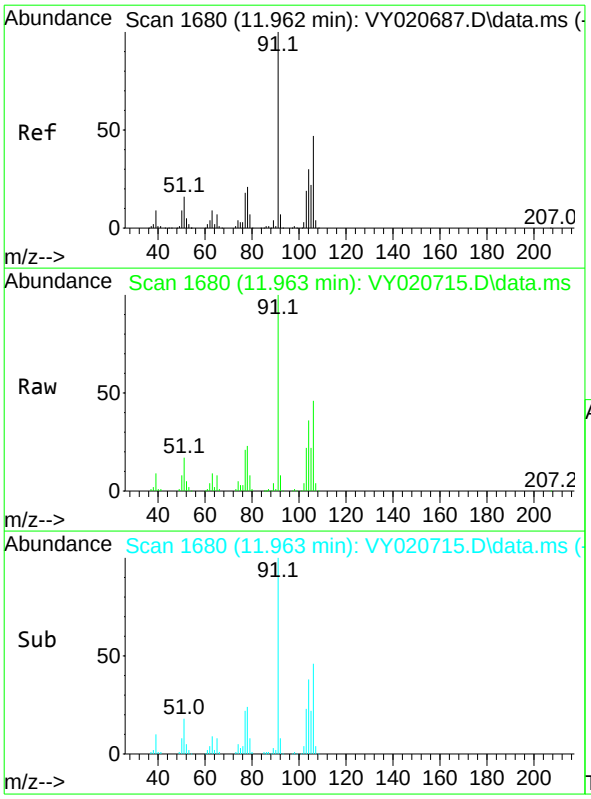



#68
m/p-Xylenes
Concen: 41.573 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:106 Resp: 75635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.2 | 166.6 | 250.0 |

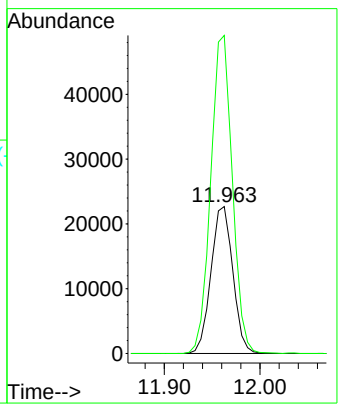





#69
o-Xylene
Concen: 20.693 ug/l
RT: 11.963 min Scan# 16
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:106 Resp: 35970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 213.9 | 108.6 | 325.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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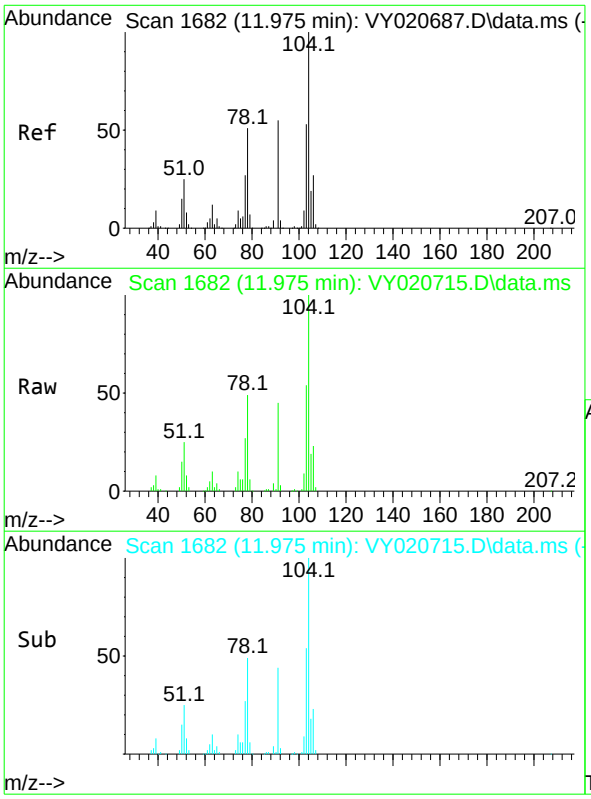
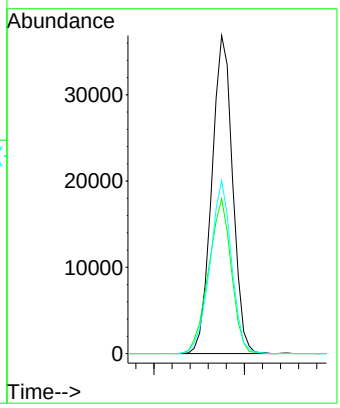
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

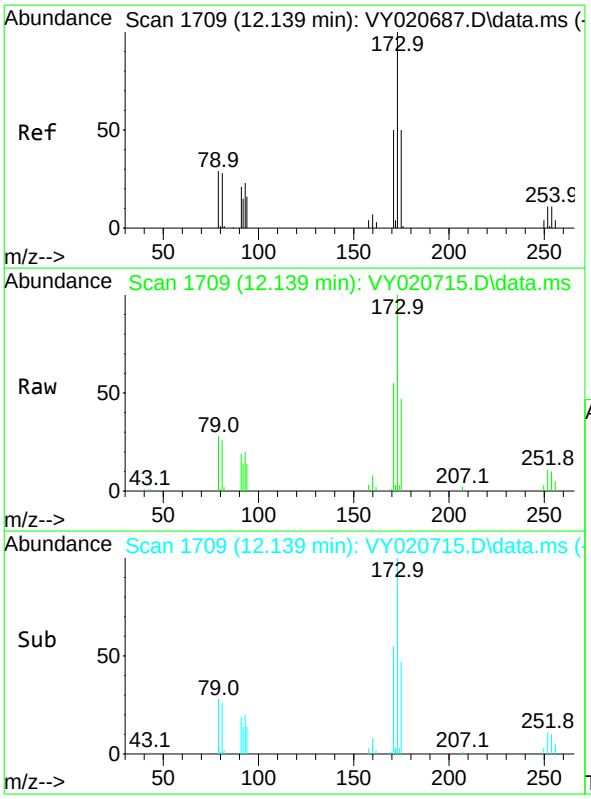



#70
Styrene
Concen: 20.228 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:104 Resp: 59026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.0 | 43.0 | 64.4 |
| 103 | 56.3 | 44.4 | 66.6 |

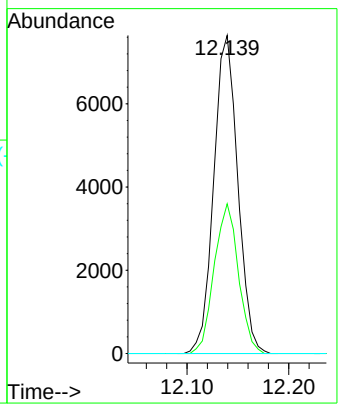





#71
Bromoform
Concen: 20.623 ug/l
RT: 12.139 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:173 Resp: 12535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.5 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
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VY1226SBS01

**Manual Integrations**
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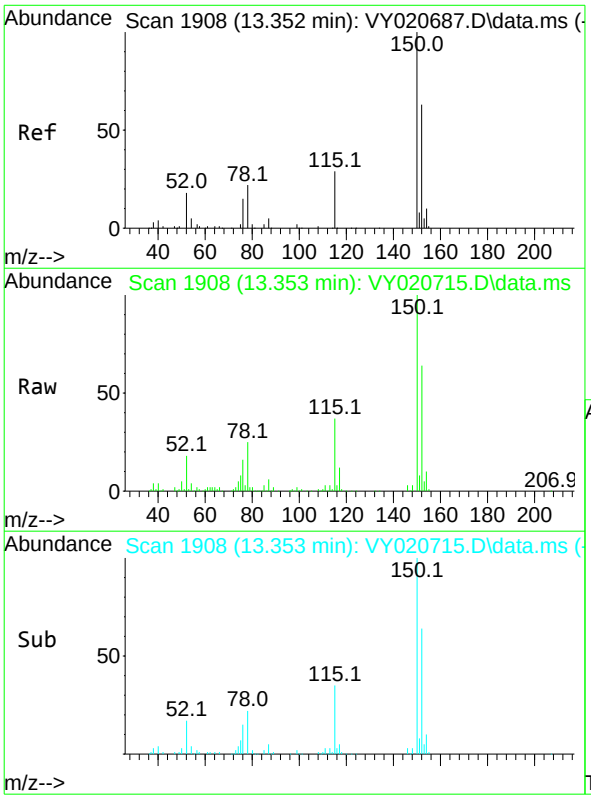
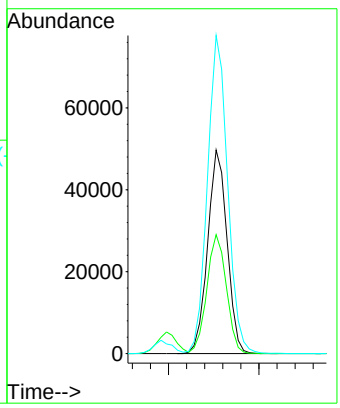
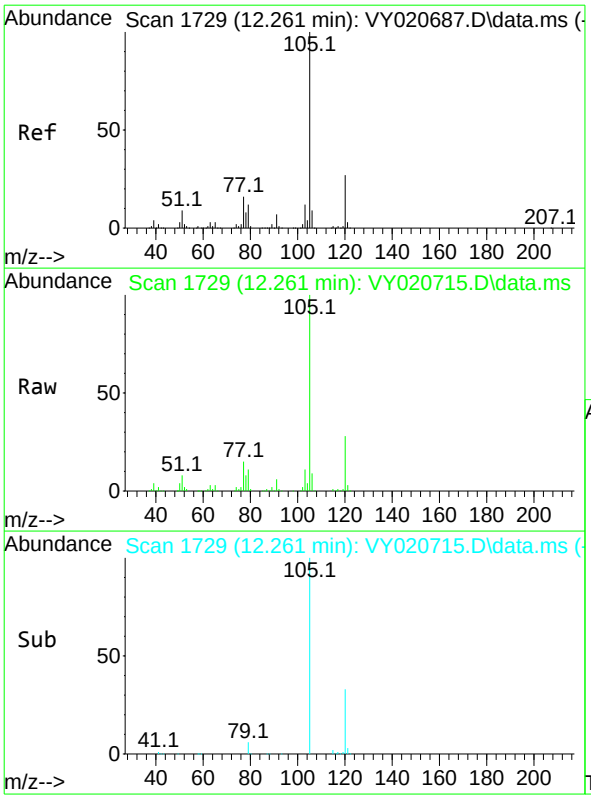



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:152 Resp: 74040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.7 | 30.3 | 90.9 |
| 150 | 162.5 | 0.0 | 349.0 |

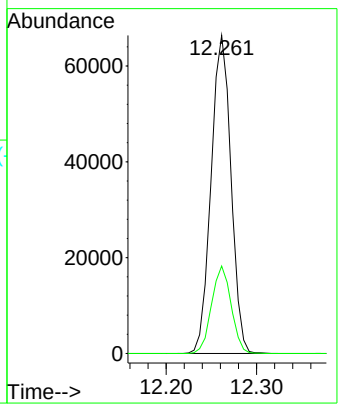





#73
Isopropylbenzene
Concen: 19.780 ug/l
RT: 12.261 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:105 Resp: 101462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.0 | 13.3 | 39.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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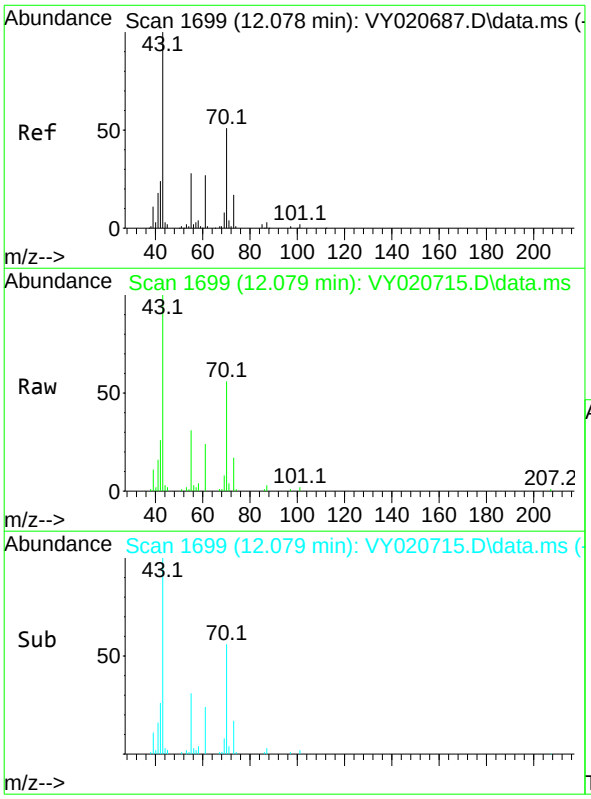
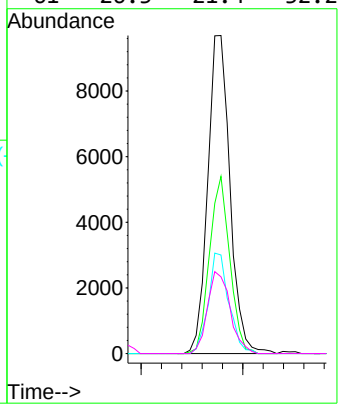
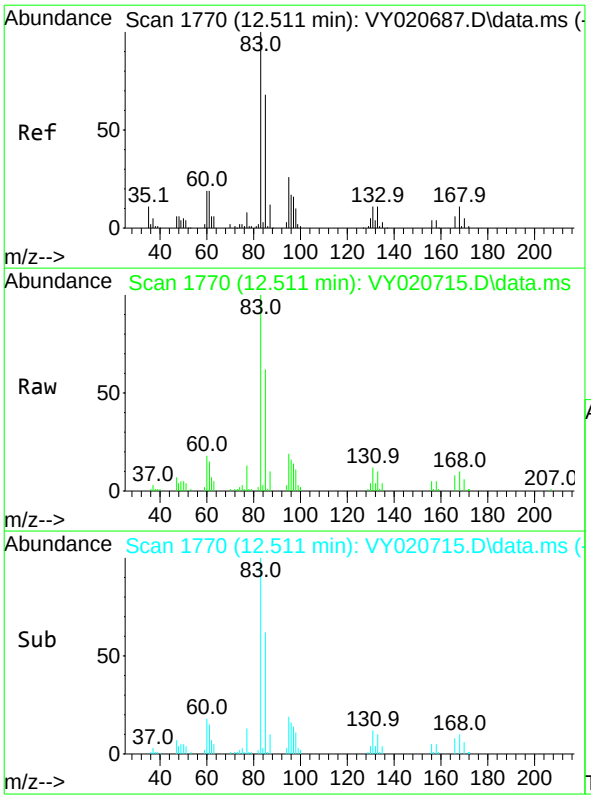



#74
N-amyl acetate
Concen: 20.191 ug/l
RT: 12.079 min Scan# 1699
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 14718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.8 | 39.7 | 59.5 |
| 55 | 29.3 | 21.5 | 32.3 |
| 61 | 26.3 | 21.4 | 32.2 |

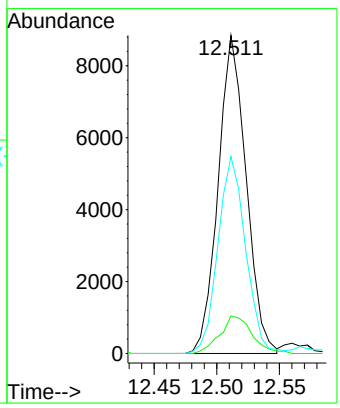





#75
1,1,2,2-Tetrachloroethane
Concen: 20.903 ug/l
RT: 12.511 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 83 Resp: 13746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 13.5 | 6.9 | 20.7 |
| 85 | 61.3 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations APPROVED**

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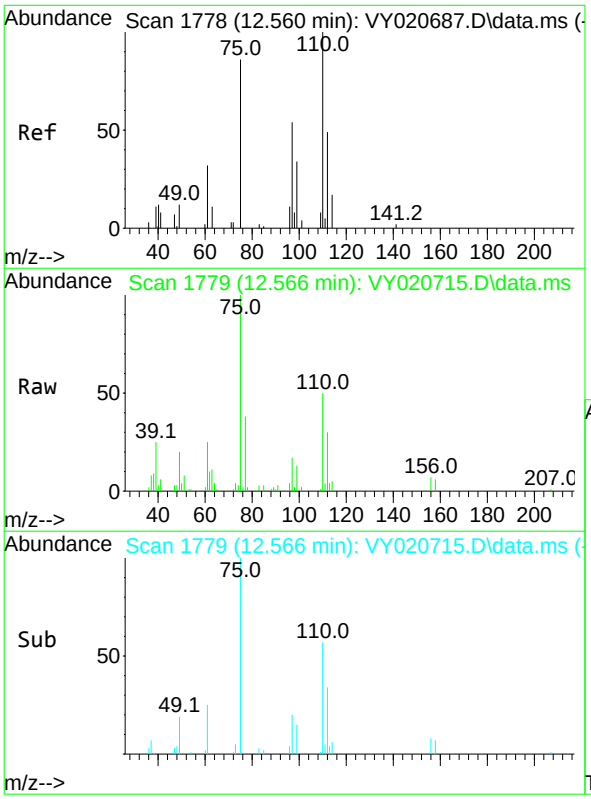
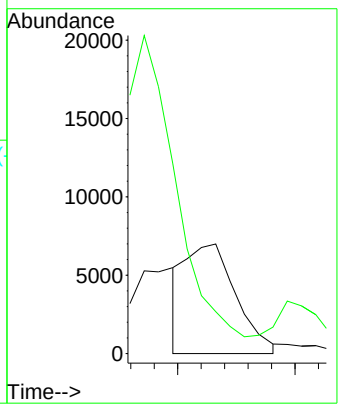
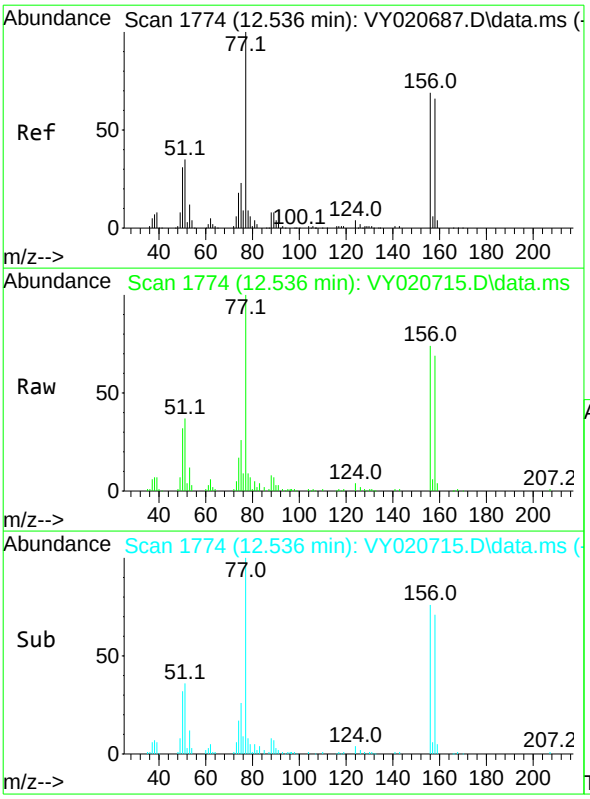



#76
1,2,3-Trichloropropane
Concen: 22.380 ug/l m
RT: 12.566 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 75 Resp: 10539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

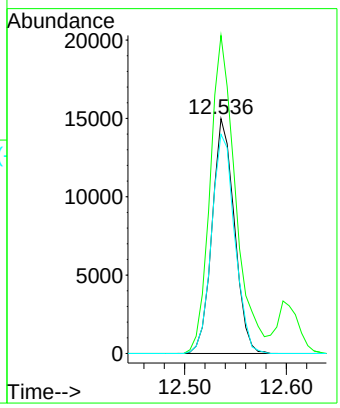





#77
Bromobenzene
Concen: 19.276 ug/l
RT: 12.536 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:156 Resp: 22761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 154.2 | 78.3 | 235.0 |
| 158 | 97.1 | 48.3 | 144.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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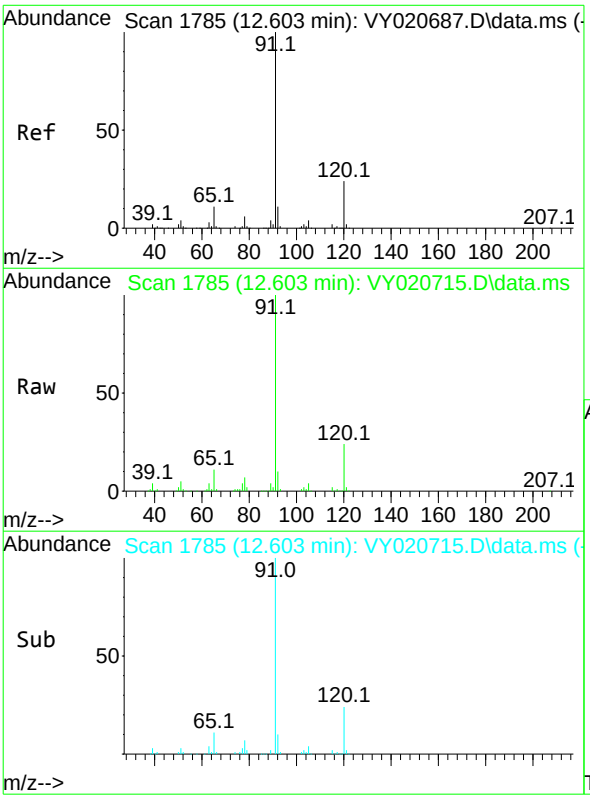
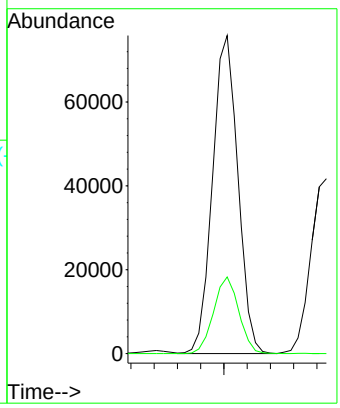
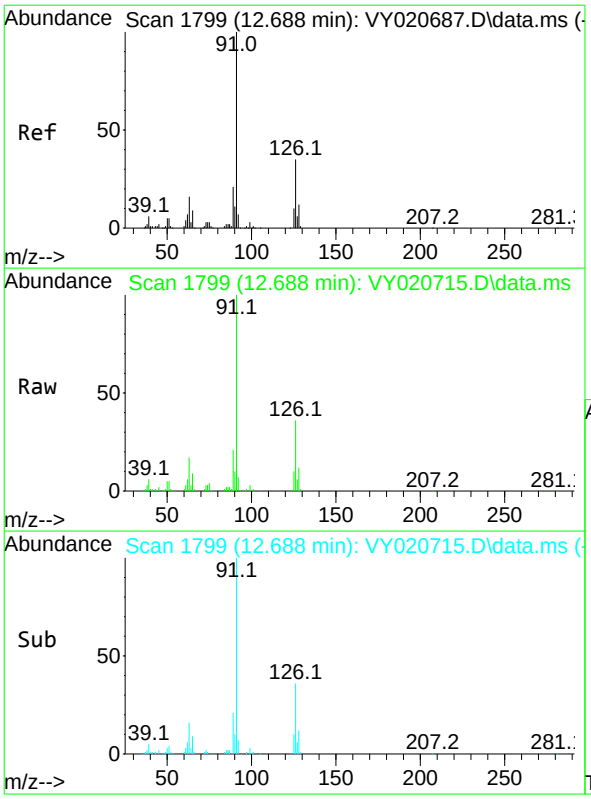



#78
n-propylbenzene
Concen: 19.993 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 91 Resp: 114949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.9 | 12.3 | 36.8 |

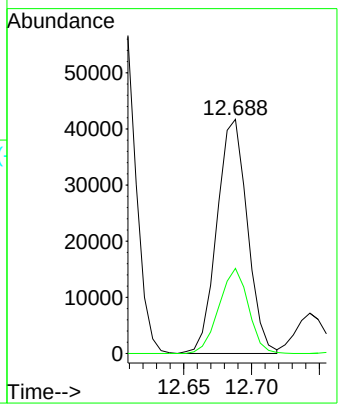





#79
2-Chlorotoluene
Concen: 19.862 ug/l
RT: 12.688 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 91 Resp: 65099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.8 | 53.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
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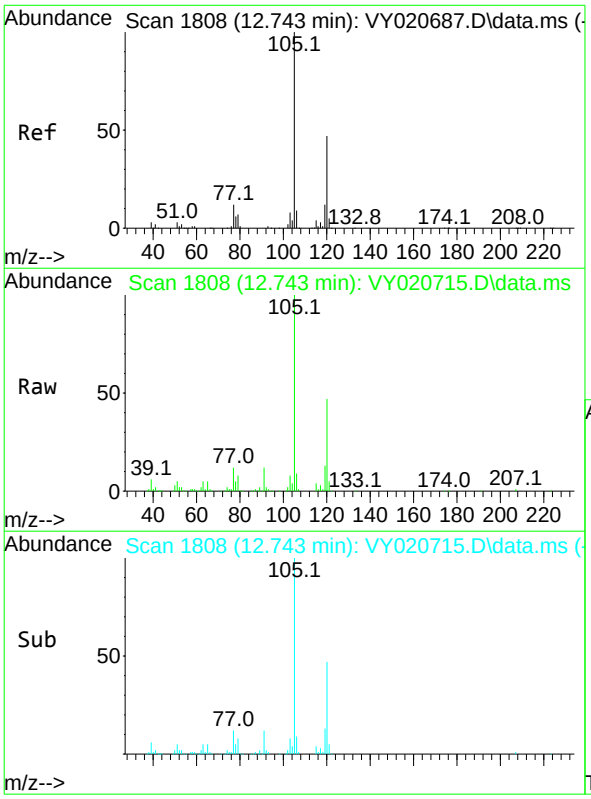
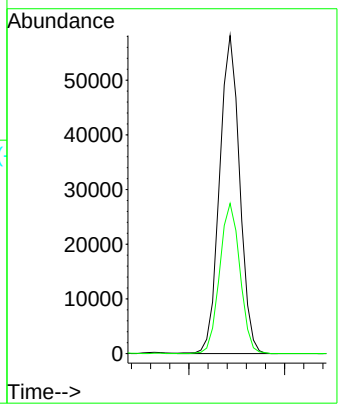
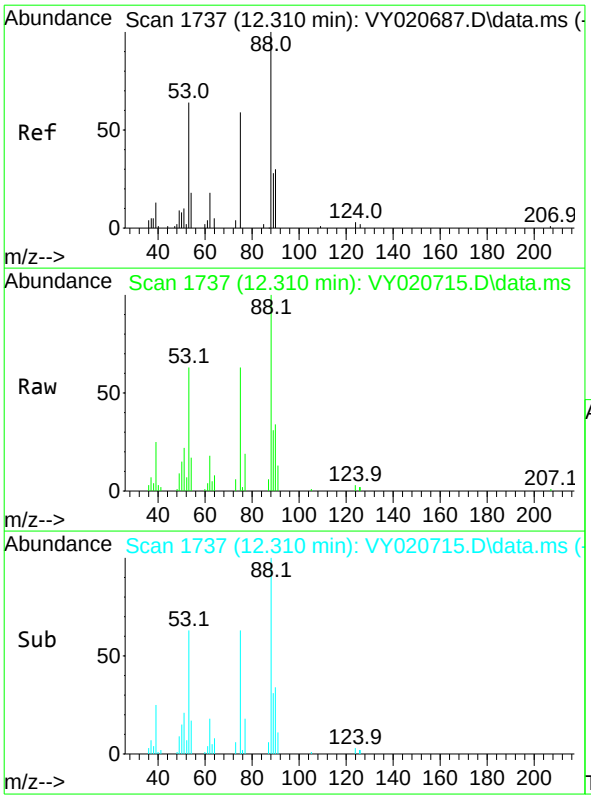



#80
1,3,5-Trimethylbenzene
Concen: 19.855 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:105 Resp: 84854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 23.9 | 71.7 |

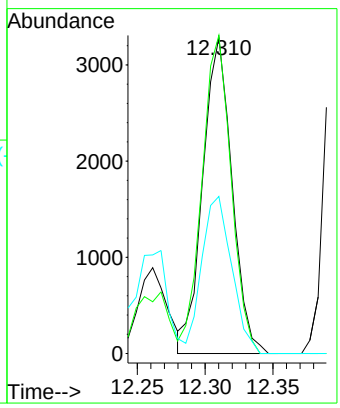





#81
trans-1,4-Dichloro-2-butene
Concen: 20.601 ug/l
RT: 12.310 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 75 Resp: 4908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 100.3 | 83.1 | 124.7 |
| 89 | 50.8 | 40.6 | 61.0 |




**Instrument :**
MSVOA_Y
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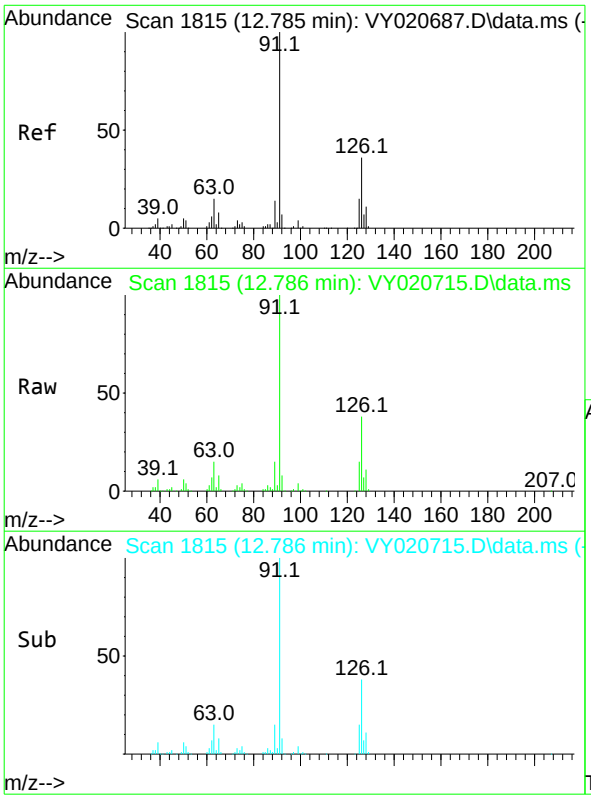
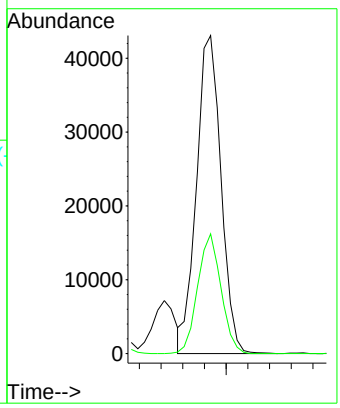
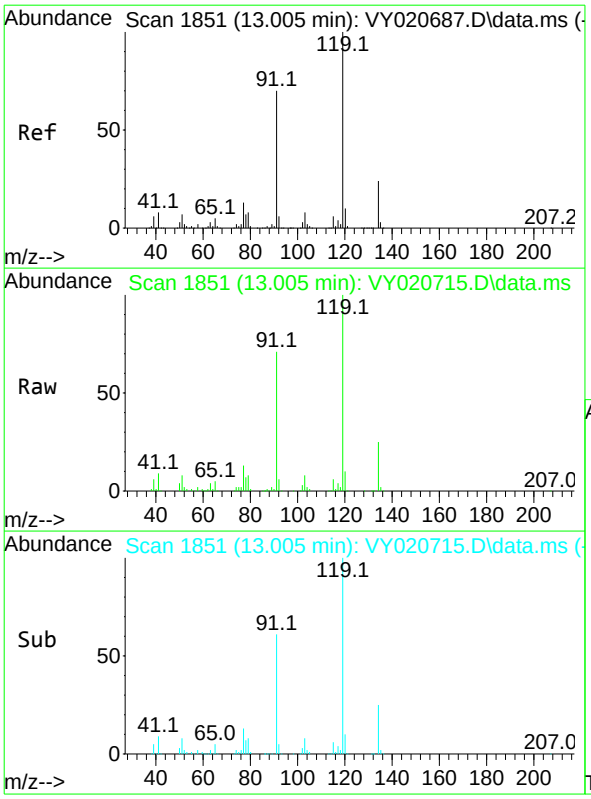



#82
4-Chlorotoluene
Concen: 19.951 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 91 Resp: 67579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.8 | 17.8 | 53.5 |

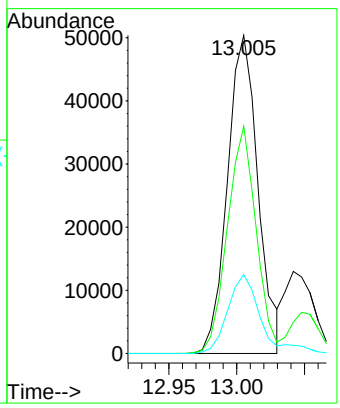





#83
tert-Butylbenzene
Concen: 19.784 ug/l
RT: 13.005 min Scan# 18
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:119 Resp: 78963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.1 | 33.6 | 100.8 |
| 134 | 26.7 | 13.4 | 40.2 |




**Instrument :**
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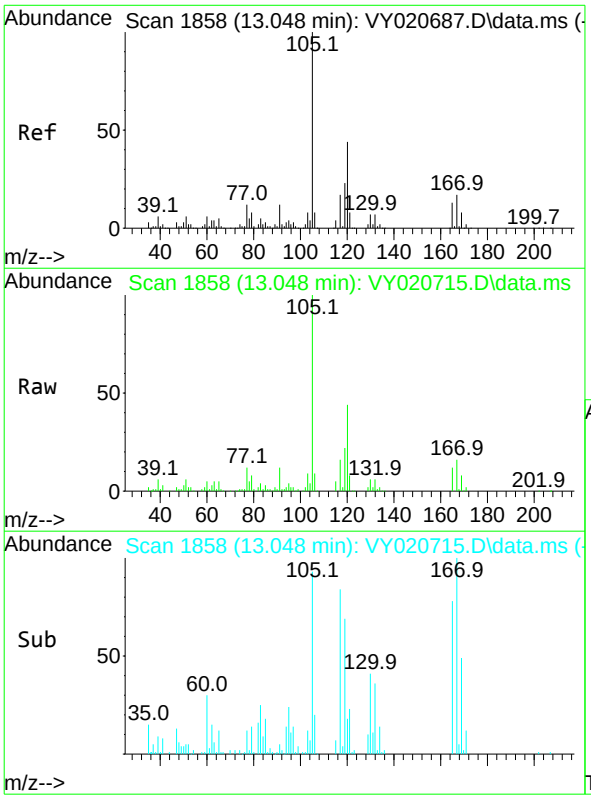
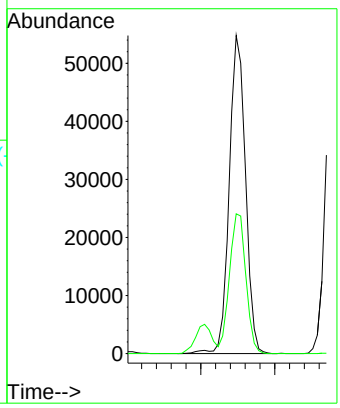
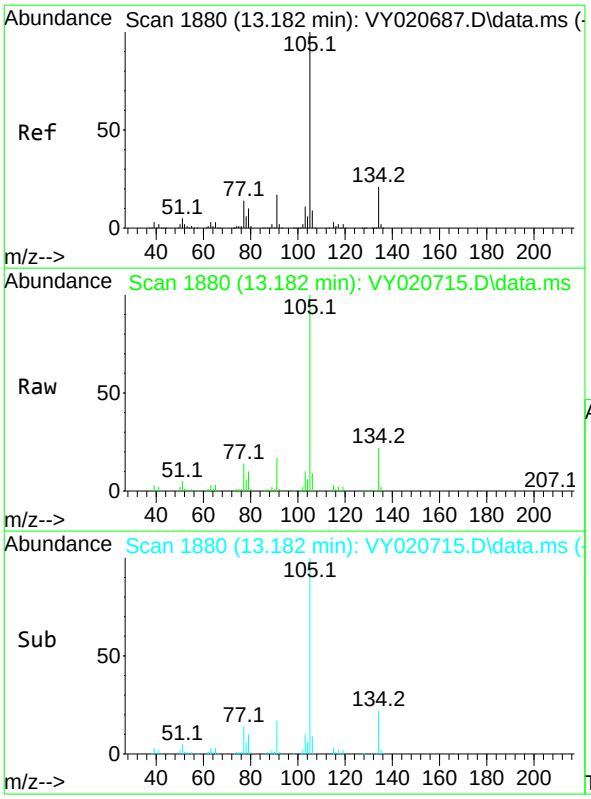



#84
1,2,4-Trimethylbenzene
Concen: 20.030 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:105 Resp: 83301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.5 | 21.8 | 65.3 |

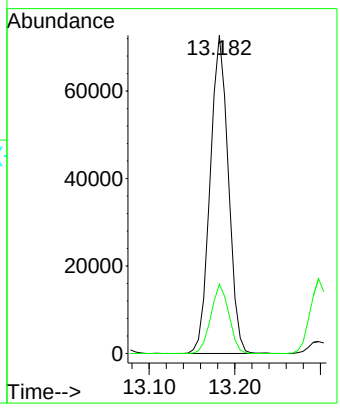





#85
sec-Butylbenzene
Concen: 19.960 ug/l
RT: 13.182 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:105 Resp: 107364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.5 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

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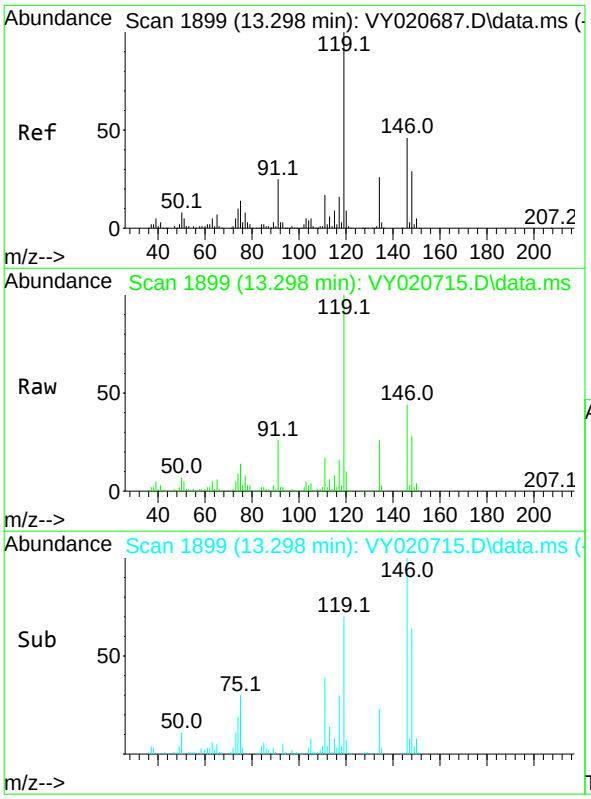
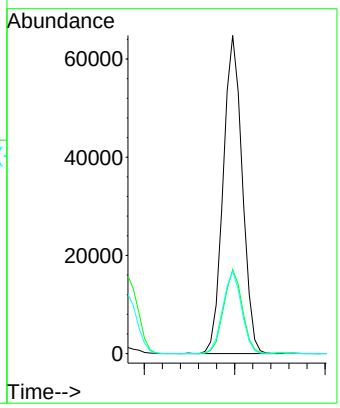
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

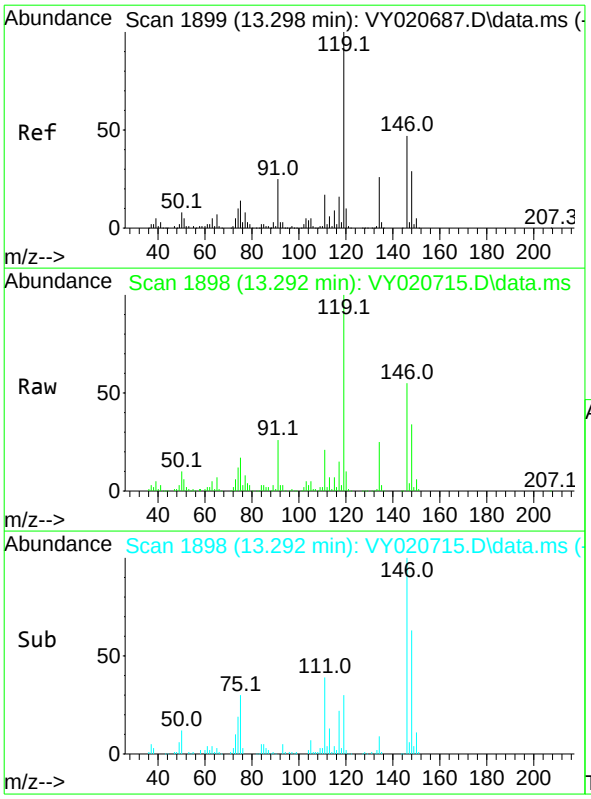



#86
p-Isopropyltoluene
Concen: 19.792 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:119 Resp: 94876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 13.4 | 40.2 |
| 91 | 25.7 | 12.9 | 38.6 |

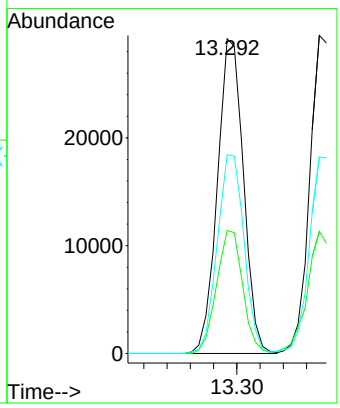





#87
1,3-Dichlorobenzene
Concen: 19.696 ug/l
RT: 13.292 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

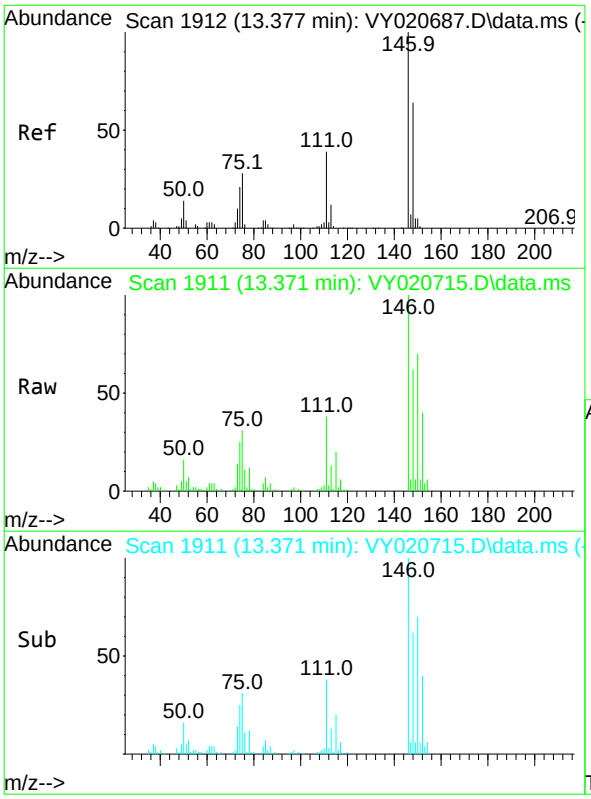
Tgt Ion:146 Resp: 45455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.3 | 57.8 |
| 148 | 64.9 | 31.1 | 93.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

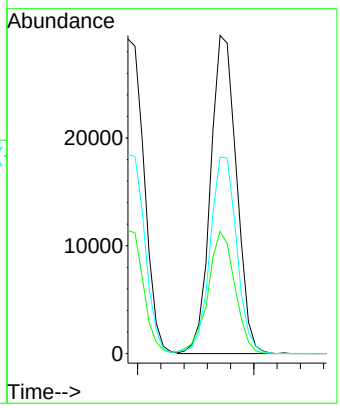
**Manual Integrations**
**APPROVED**
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

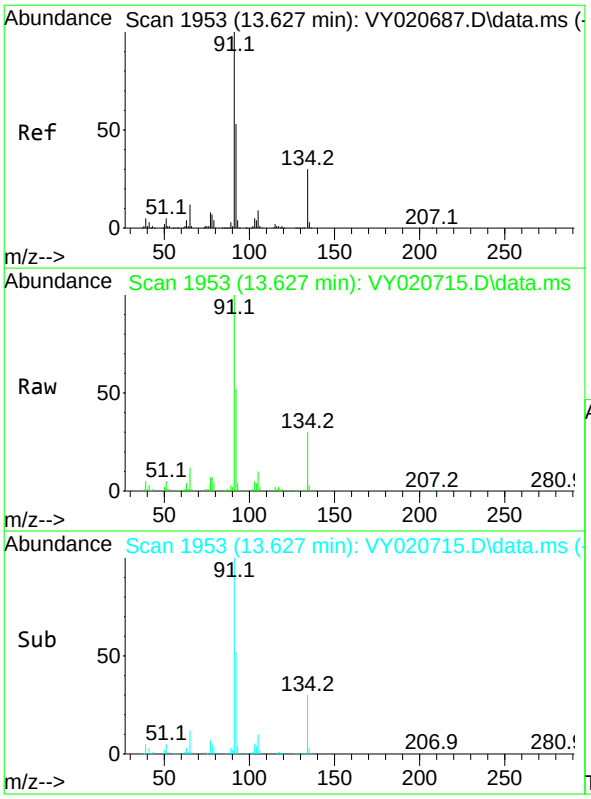



#88
1,4-Dichlorobenzene
Concen: 19.948 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:146 Resp: 45797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 19.7 | 59.0 |
| 148 | 63.3 | 32.8 | 98.3 |

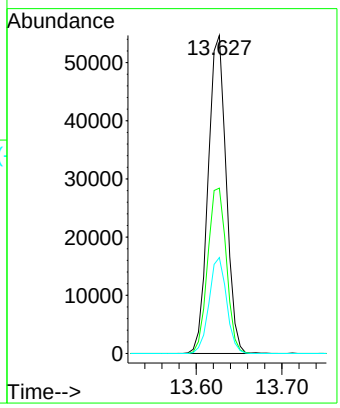





#89
n-Butylbenzene
Concen: 19.949 ug/l
RT: 13.627 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 91 Resp: 79827

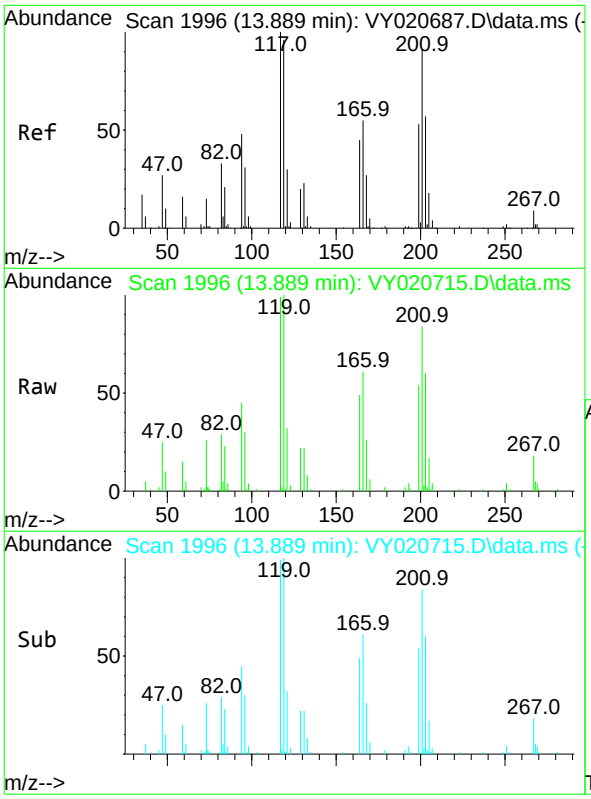
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.8 | 26.1 | 78.2 |
| 134 | 29.3 | 14.8 | 44.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

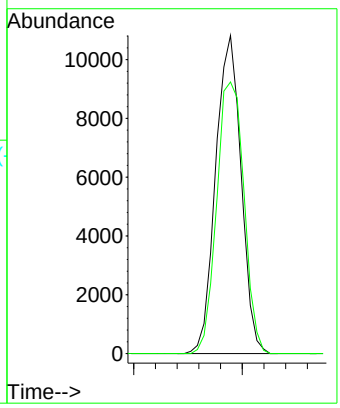
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

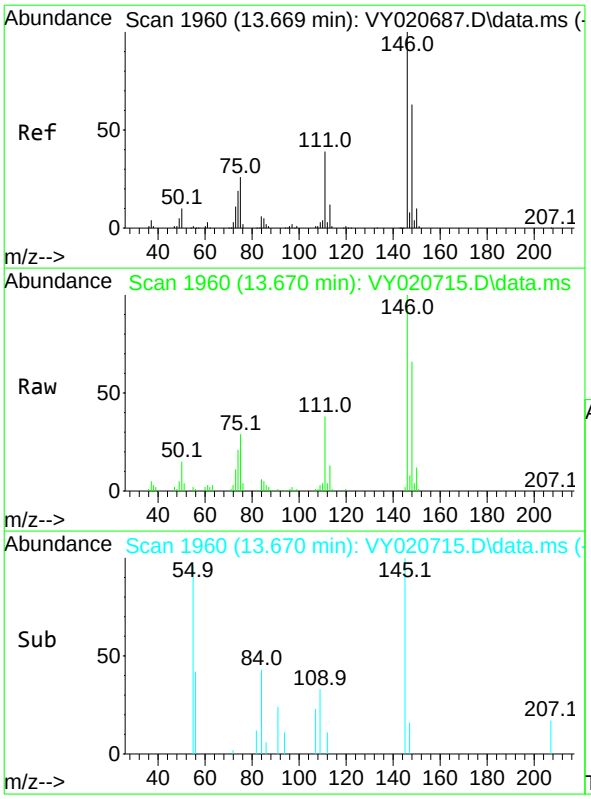



#90
Hexachloroethane
Concen: 19.307 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:117 Resp: 17599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 91.6 | 44.9 | 134.7 |

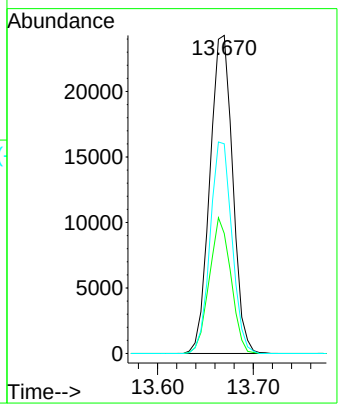





#91
1,2-Dichlorobenzene
Concen: 20.294 ug/l
RT: 13.670 min Scan# 19
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:146 Resp: 40158

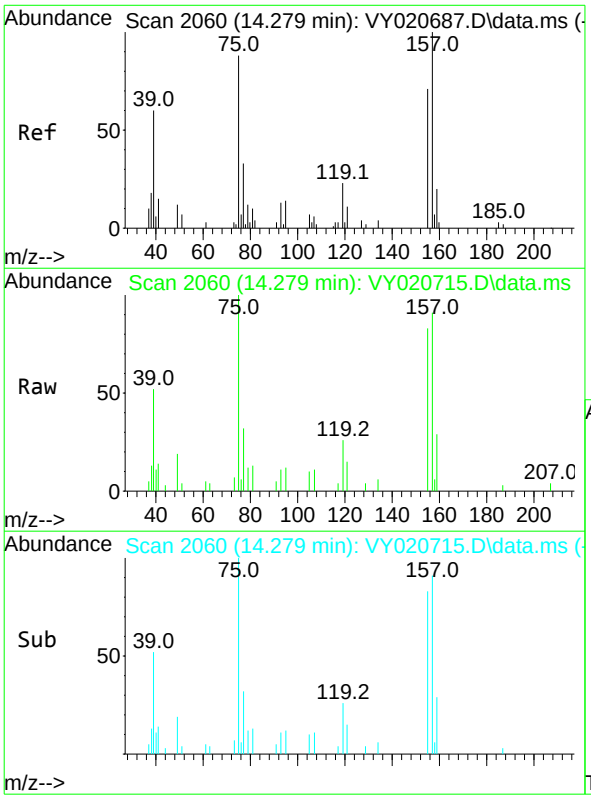
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.3 | 20.3 | 60.8 |
| 148 | 63.7 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

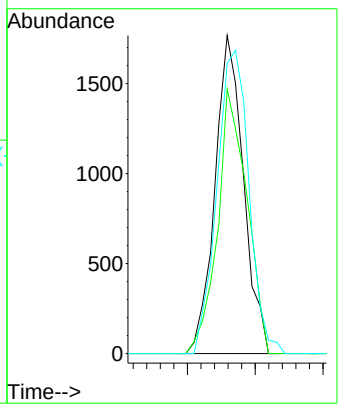
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

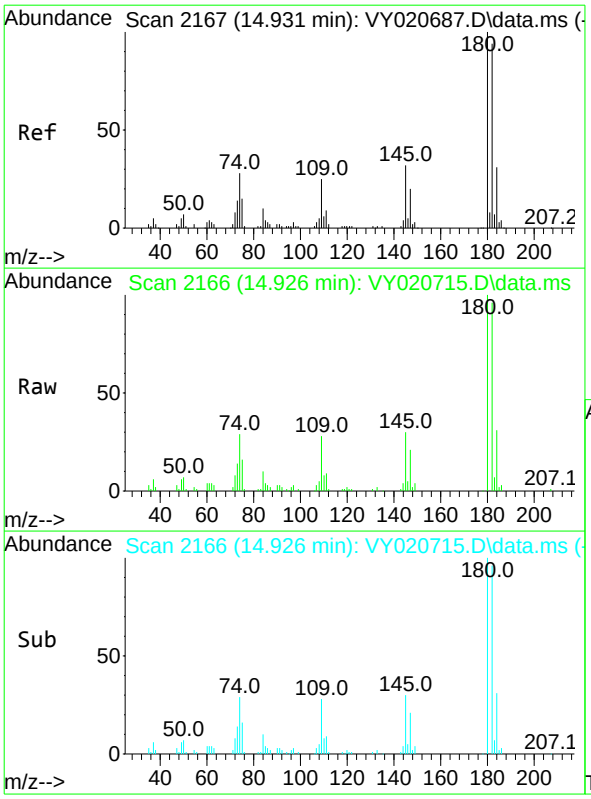



#92
1,2-Dibromo-3-Chloropropane
Concen: 20.237 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 75 Resp: 2581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 85.5 | 43.4 | 130.2 |
| 157 | 107.0 | 58.6 | 175.7 |

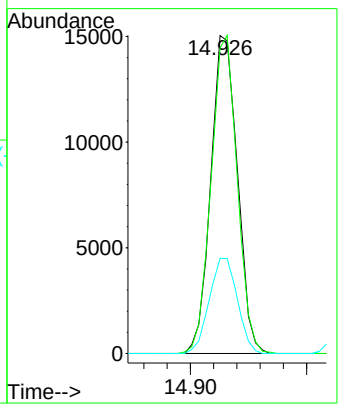





#93
1,2,4-Trichlorobenzene
Concen: 19.039 ug/l
RT: 14.926 min Scan# 21
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:180 Resp: 23946

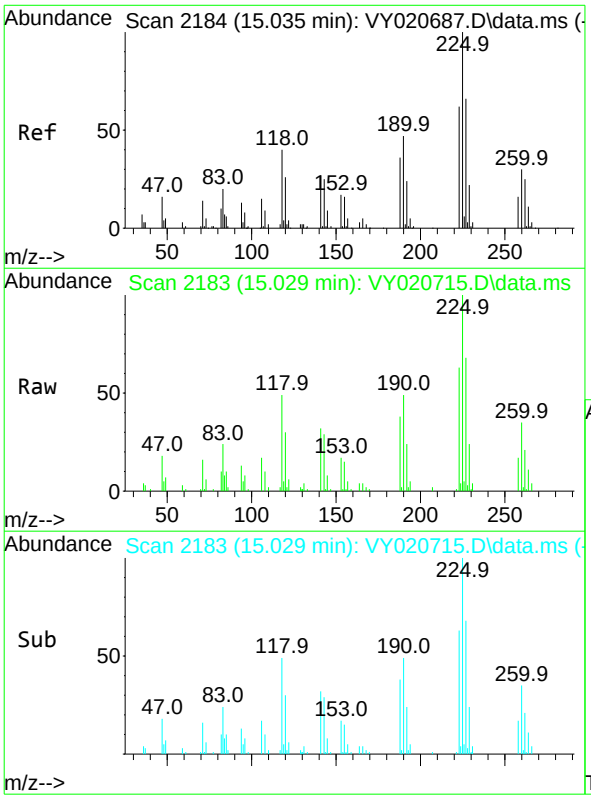
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.8 | 47.9 | 143.7 |
| 145 | 31.6 | 15.6 | 46.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

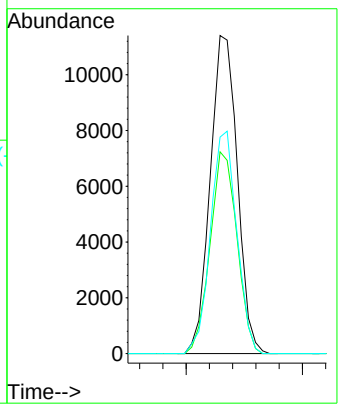
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

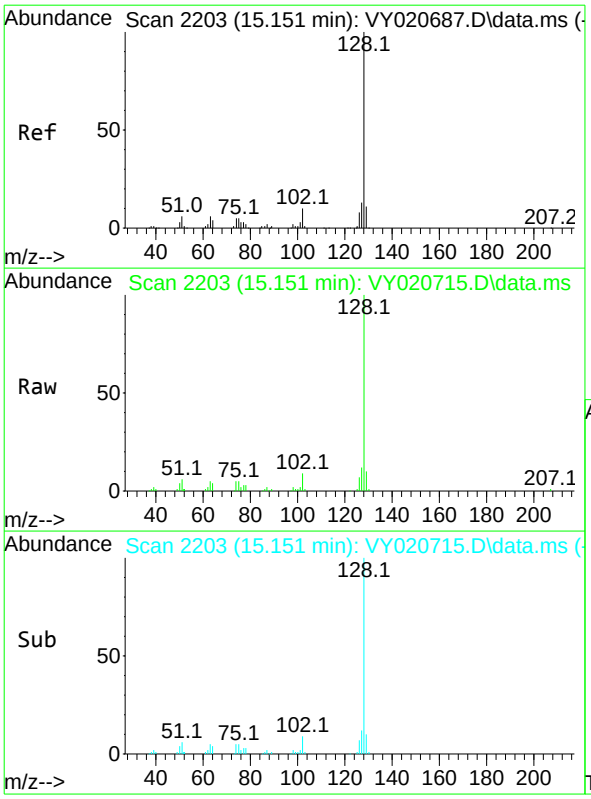



#94
Hexachlorobutadiene
Concen: 20.177 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:225 Resp: 18496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 31.3 | 93.8 |
| 227 | 67.7 | 32.1 | 96.5 |

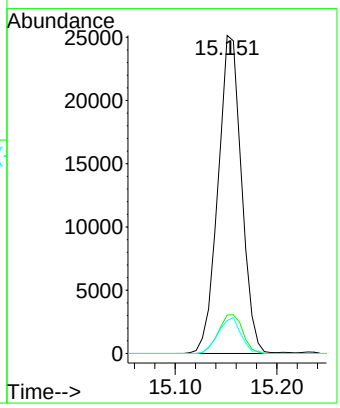





#95
Naphthalene
Concen: 20.005 ug/l
RT: 15.151 min Scan# 22
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:128 Resp: 40300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.7 | 16.1 |
| 129 | 11.0 | 8.6 | 12.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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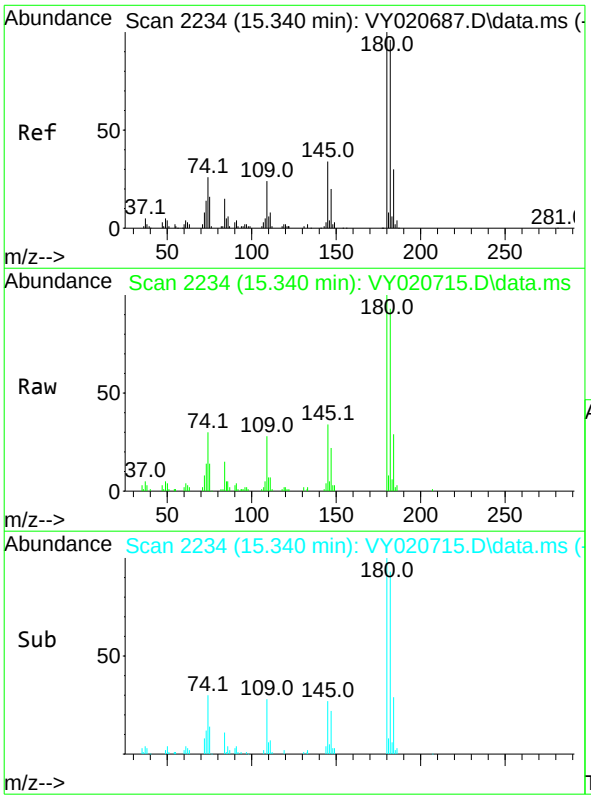
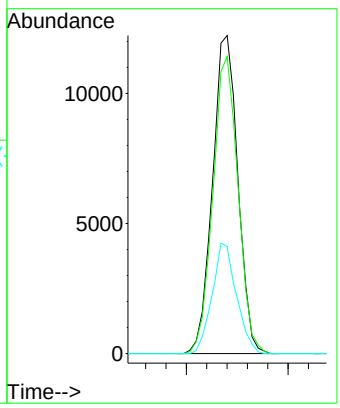



#96
1,2,3-Trichlorobenzene
Concen: 20.151 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:180 Resp: 21103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.6 | 47.4 | 142.2 |
| 145 | 33.4 | 16.7 | 50.1 |



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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | VY1226SBSD01 | SDG No.: | P5316 |
| Lab Sample ID: | VY1226SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020716.D | 1 | | 12/26/24 14:54 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units(Dry Weight) |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 75-01-4 | Vinyl Chloride | 18.1 | | 0.77 | 2.50 | 5.00 | ug/Kg |
| 75-35-4 | 1,1-Dichloroethene | 18.9 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 67-64-1 | Acetone | 99.3 | | 6.20 | 20.0 | 25.0 | ug/Kg |
| 1634-04-4 | Methyl tert-butyl Ether | 20.6 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 75-09-2 | Methylene Chloride | 19.7 | | 3.40 | 8.00 | 10.0 | ug/Kg |
| 156-60-5 | trans-1,2-Dichloroethene | 19.3 | | 0.84 | 2.50 | 5.00 | ug/Kg |
| 75-34-3 | 1,1-Dichloroethane | 20.0 | | 0.63 | 2.50 | 5.00 | ug/Kg |
| 78-93-3 | 2-Butanone | 110 | | 5.70 | 20.0 | 25.0 | ug/Kg |
| 56-23-5 | Carbon Tetrachloride | 19.0 | | 0.87 | 2.50 | 5.00 | ug/Kg |
| 156-59-2 | cis-1,2-Dichloroethene | 19.7 | | 0.61 | 2.50 | 5.00 | ug/Kg |
| 67-66-3 | Chloroform | 19.9 | | 0.67 | 4.00 | 5.00 | ug/Kg |
| 71-55-6 | 1,1,1-Trichloroethane | 19.5 | | 0.78 | 2.50 | 5.00 | ug/Kg |
| 71-43-2 | Benzene | 19.4 | | 0.72 | 2.50 | 5.00 | ug/Kg |
| 107-06-2 | 1,2-Dichloroethane | 19.5 | | 0.61 | 2.50 | 5.00 | ug/Kg |
| 79-01-6 | Trichloroethene | 19.6 | | 0.75 | 2.50 | 5.00 | ug/Kg |
| 108-88-3 | Toluene | 19.7 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 127-18-4 | Tetrachloroethene | 19.4 | | 0.89 | 2.50 | 5.00 | ug/Kg |
| 108-90-7 | Chlorobenzene | 20.1 | | 0.74 | 2.50 | 5.00 | ug/Kg |
| 100-41-4 | Ethyl Benzene | 19.7 | | 0.62 | 2.50 | 5.00 | ug/Kg |
| 1330-20-7 | Total Xylenes | 59.5 | | 2.10 | 7.50 | 15.0 | ug/Kg |
| 103-65-1 | n-propylbenzene | 19.4 | | 0.64 | 2.50 | 5.00 | ug/Kg |
| 98-06-6 | tert-Butylbenzene | 19.7 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 95-63-6 | 1,2,4-Trimethylbenzene | 19.7 | | 1.40 | 2.50 | 5.00 | ug/Kg |
| 135-98-8 | sec-Butylbenzene | 19.5 | | 0.67 | 2.50 | 5.00 | ug/Kg |
| 541-73-1 | 1,3-Dichlorobenzene | 19.8 | | 0.74 | 2.50 | 5.00 | ug/Kg |
| 106-46-7 | 1,4-Dichlorobenzene | 19.4 | | 0.80 | 2.50 | 5.00 | ug/Kg |
| 104-51-8 | n-Butylbenzene | 19.5 | | 0.63 | 2.50 | 5.00 | ug/Kg |
| 95-50-1 | 1,2-Dichlorobenzene | 20.0 | | 0.59 | 2.50 | 5.00 | ug/Kg |
| 123-91-1 | 1,4-Dioxane | 460 | | 42.5 | 80.0 | 100 | ug/Kg |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 57.3 | | 71 - 136 | | 115% | SPK: 50 |

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

# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | |
| Project: | CTO WE13 | Date Received: | |
| Client Sample ID: | VY1226SBSD01 | SDG No.: | P5316 |
| Lab Sample ID: | VY1226SBSD01 | Matrix: | SOIL |
| Analytical Method: | SW8260 | % Solid: | 100 |
| Sample Wt/Vol: | 5 Units: g | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group4 |
| GC Column: | RXI-624 ID : 0.25 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VY020716.D | 1 | | 12/26/24 14:54 | VY122624 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 1868-53-7 | Dibromofluoromethane | 53.2 | | 78 - 119 | | 106% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 52.1 | | 85 - 116 | | 104% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.9 | | 79 - 119 | | 106% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 116000 | 7.713 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 164000 | 8.622 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 141000 | 11.42 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 73700 | 13.353 | | | | |

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
E = Value Exceeds Calibration Range
Q = indicates LCS control criteria did not meet requirements
M = MS/MSD acceptance criteria did not meet requirements
J = Estimated Value
B = Analyte Found in Associated Method Blank
N = Presumptive Evidence of a Compound
* = Values outside of QC limits
D = Dilution
() = Laboratory InHouse Limit
A = Aldol-Condensation Reaction Products

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020716.D
Acq On : 26 Dec 2024 14:54
Operator : SY/MD
Sample : VY1226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 26 16:20:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| **Internal Standards** | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 115773 | 50.000 ug/l | -0.01 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 164224 | 50.000 ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 140702 | 50.000 ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 73666 | 50.000 ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 54334 | 57.297 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 114.600% | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 48081 | 53.153 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.300% | | |
| 50) Toluene-d8 | 10.109 | 98 | 187843 | 52.144 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.280% | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 63630 | 52.931 ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 105.860% | | |
| **Target Compounds** | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 17441 | 19.139 ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 6322 | 18.602 ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 7607 | 18.066 ug/l | 99 |
| 5) Bromomethane | 2.598 | 94 | 6224 | 19.577 ug/l | 99 |
| 6) Chloroethane | 2.739 | 64 | 4905 | 19.418 ug/l # | 79 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 30303 | 18.714 ug/l | 98 |
| 8) Diethyl Ether | 3.464 | 74 | 7587 | 19.690 ug/l | 92 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 17468 | 19.650 ug/l | 98 |
| 10) Methyl Iodide | 4.013 | 142 | 17994 | 18.511 ug/l | 99 |
| 11) Tert butyl alcohol | 4.878 | 59 | 7675 | 118.687 ug/l # | 86 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 14934 | 18.874 ug/l | 95 |
| 13) Acrolein | 3.659 | 56 | 2748 | 138.625 ug/l | 94 |
| 14) Allyl chloride | 4.397 | 41 | 17724 | 19.142 ug/l | 97 |
| 15) Acrylonitrile | 5.061 | 53 | 15350 | 103.122 ug/l | 97 |
| 16) Acetone | 3.879 | 43 | 11944 | 99.286 ug/l | 90 |
| 17) Carbon Disulfide | 4.116 | 76 | 34956 | 18.010 ug/l # | 95 |
| 18) Methyl Acetate | 4.397 | 43 | 6556 | 20.136 ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 45438 | 20.603 ug/l | 98 |
| 20) Methylene Chloride | 4.622 | 84 | 15375 | 19.651 ug/l | 91 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 16474 | 19.321 ug/l | 95 |
| 22) Diisopropyl ether | 6.031 | 45 | 38970 | 20.704 ug/l | 95 |
| 23) Vinyl Acetate | 5.970 | 43 | 116491 | 103.614 ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 28192 | 19.977 ug/l | 99 |
| 25) 2-Butanone | 6.902 | 43 | 17284 | 106.360 ug/l | 96 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 33722 | 19.523 ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 20089 | 19.674 ug/l | 99 |
| 28) Bromochloromethane | 7.256 | 49 | 6573 | 17.613 ug/l | 94 |
| 29) Tetrahydrofuran | 7.268 | 42 | 10662 | 106.889 ug/l | 96 |
| 30) Chloroform | 7.433 | 83 | 36048 | 19.857 ug/l | 95 |
| 31) Cyclohexane | 7.713 | 56 | 23333 | 19.155 ug/l # | 94 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 37936 | 19.495 ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 22746 | 19.036 ug/l | 98 |
| 37) Ethyl Acetate | 7.000 | 43 | 8095 | 20.559 ug/l # | 96 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 37355 | 18.985 ug/l | 96 |
| 39) Methylcyclohexane | 9.115 | 83 | 29413 | 19.205 ug/l | 95 |
| 40) Benzene | 8.085 | 78 | 67196 | 19.404 ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020716.D
Acq On : 26 Dec 2024 14:54
Operator : SY/MD
Sample : VY1226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 26 16:20:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 3914 | 19.679 ug/l # | 90 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 21623 | 19.473 ug/l | 98 |
| 43) Isopropyl Acetate | 8.201 | 43 | 17100 | 20.432 ug/l # | 88 |
| 44) Trichloroethene | 8.872 | 130 | 20239 | 19.567 ug/l | 96 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 13502 | 19.262 ug/l | 97 |
| 46) Dibromomethane | 9.237 | 93 | 9888 | 20.387 ug/l | 98 |
| 47) Bromodichloromethane | 9.426 | 83 | 26772 | 19.469 ug/l | 96 |
| 48) Methyl methacrylate | 9.225 | 41 | 7800 | 19.957 ug/l | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 2134 | 461.904 ug/l # | 87 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 42327 | 104.782 ug/l | 99 |
| 52) Toluene | 10.176 | 92 | 46778 | 19.709 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 24006 | 19.877 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 26559 | 20.063 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 12818 | 20.704 ug/l | 95 |
| 56) Ethyl methacrylate | 10.445 | 69 | 16409 | 20.175 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 20462 | 20.363 ug/l | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 29367 | 103.542 ug/l | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 28166 | 105.605 ug/l | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 20157 | 20.149 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 11828 | 20.304 ug/l | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 18659 | 19.410 ug/l | 99 |
| 65) Chlorobenzene | 11.444 | 112 | 55362 | 20.095 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 21331 | 19.985 ug/l | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 94825 | 19.693 ug/l | 97 |
| 68) m/p-Xylenes | 11.633 | 106 | 73507 | 40.019 ug/l | 99 |
| 69) o-Xylene | 11.956 | 106 | 34142 | 19.455 ug/l | 96 |
| 70) Styrene | 11.975 | 104 | 58678 | 19.918 ug/l | 99 |
| 71) Bromoform | 12.139 | 173 | 12816 | 20.885 ug/l # | 94 |
| 73) Isopropylbenzene | 12.255 | 105 | 97450 | 19.094 ug/l | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 14818 | 20.431 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 13020 | 19.900 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 9507m | 20.291 ug/l | |
| 77) Bromobenzene | 12.536 | 156 | 22787 | 19.396 ug/l | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 110719 | 19.355 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 63619 | 19.509 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 82956 | 19.509 ug/l | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 4691 | 19.790 ug/l | 96 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 64772 | 19.219 ug/l | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 78168 | 19.685 ug/l | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 81496 | 19.695 ug/l | 98 |
| 85) sec-Butylbenzene | 13.182 | 105 | 104334 | 19.495 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 91757 | 19.238 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 45422 | 19.781 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 44221 | 19.360 ug/l | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 77813 | 19.544 ug/l | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 16909 | 18.644 ug/l | 96 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 39466 | 20.046 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 2690 | 21.198 ug/l | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 24888 | 19.888 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 17981 | 19.715 ug/l | 98 |
| 95) Naphthalene | 15.151 | 128 | 39363 | 19.639 ug/l | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 20507 | 19.681 ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020716.D
Acq On : 26 Dec 2024 14:54
Operator : SY/MD
Sample : VY1226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 26 16:20:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020716.D
Acq On : 26 Dec 2024 14:54
Operator : SY/MD
Sample : VY1226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Dec 26 16:20:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations APPROVED**

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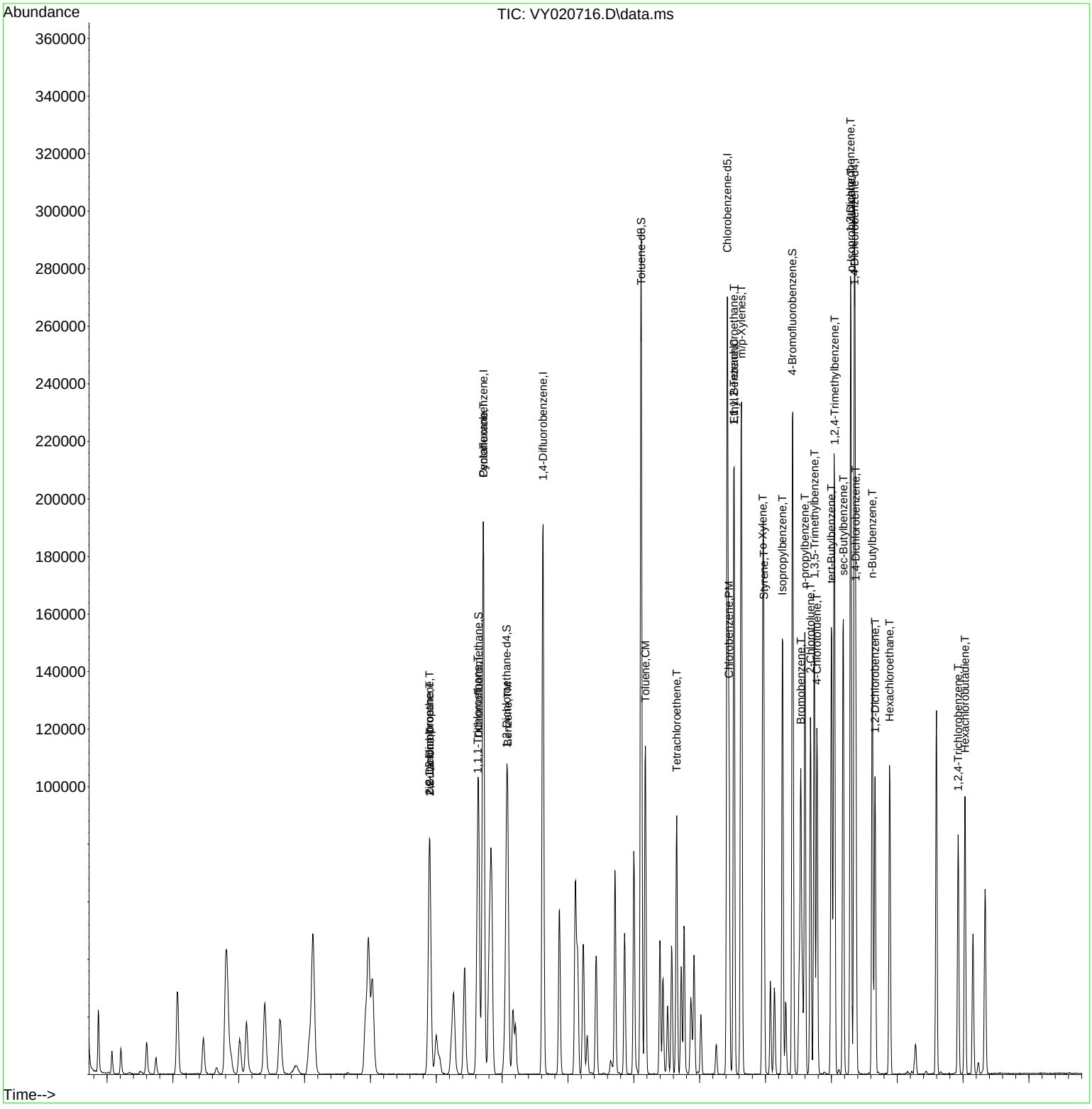
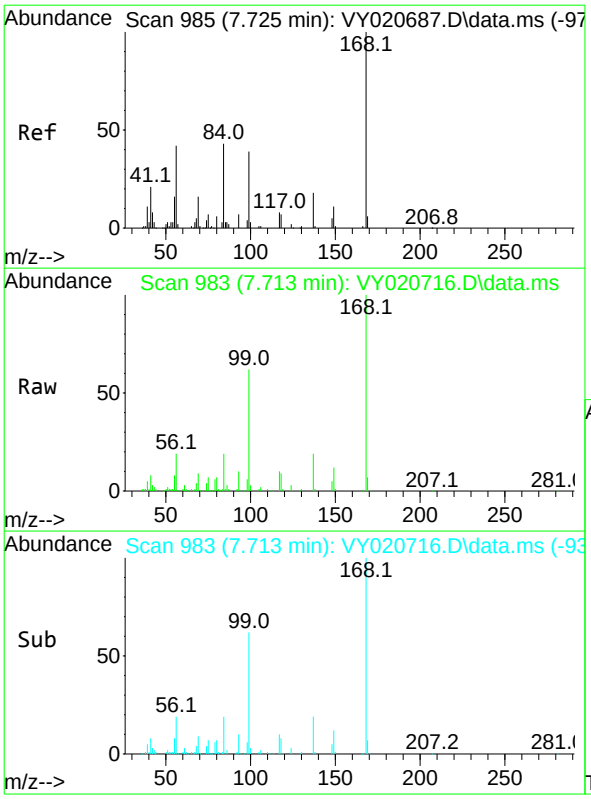
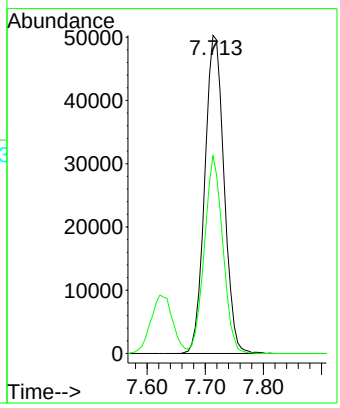





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:168 Resp: 115773

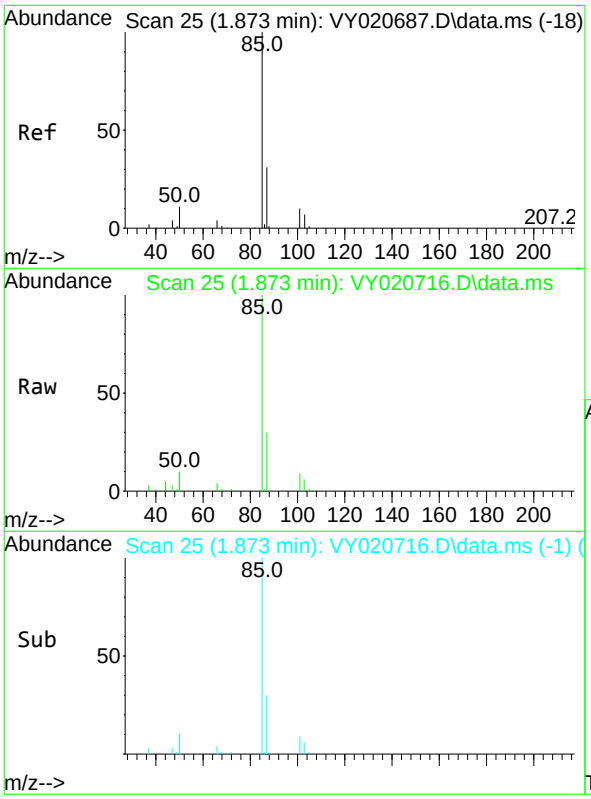
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.1 | 43.8 | 65.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

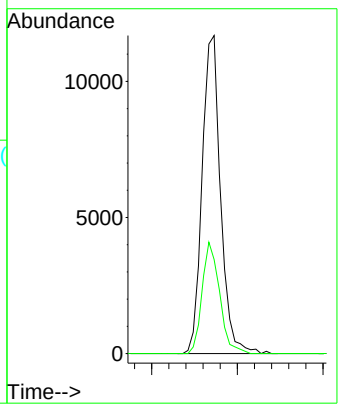
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

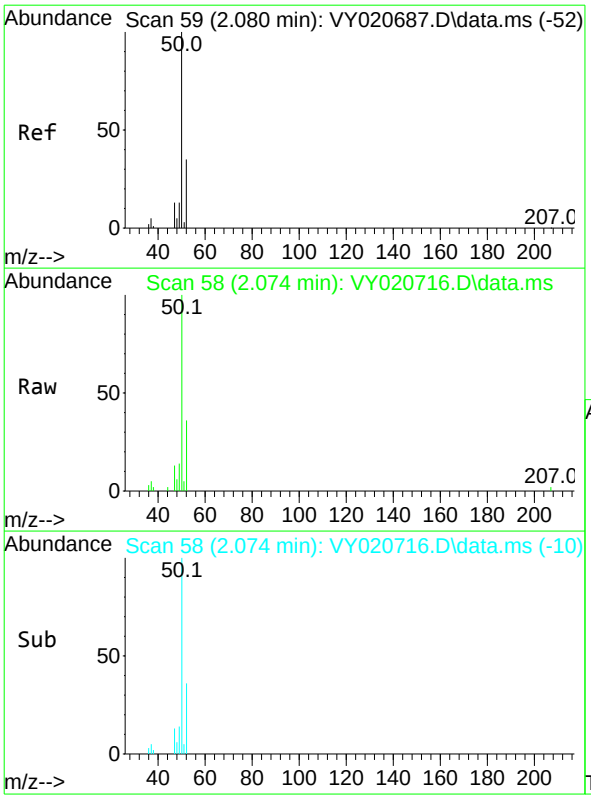



#2
Dichlorodifluoromethane
Concen: 19.139 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 85 Resp: 17441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.6 | 15.4 | 46.4 |

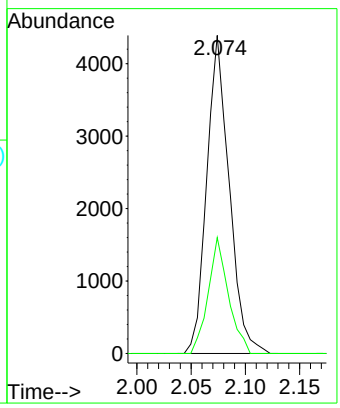





#3
Chloromethane
Concen: 18.602 ug/l
RT: 2.074 min Scan# 58
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 50 Resp: 6322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.4 | 28.2 | 42.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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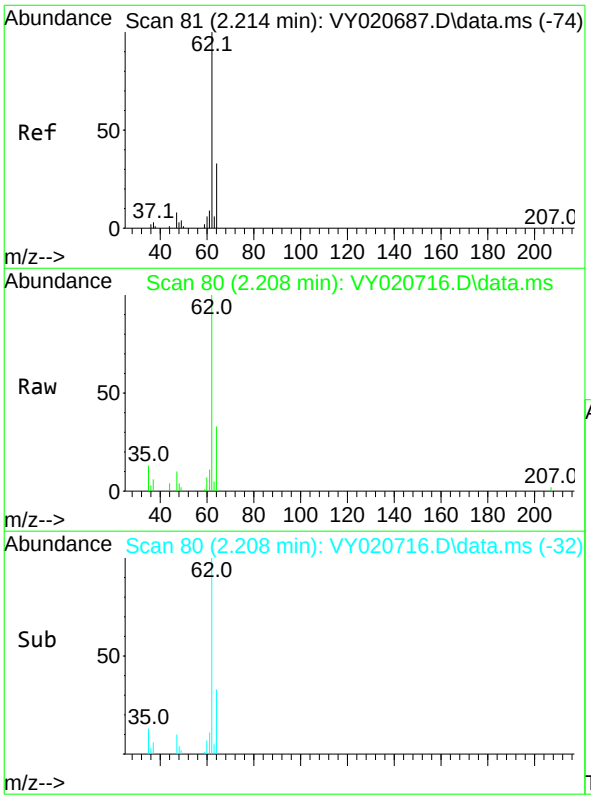
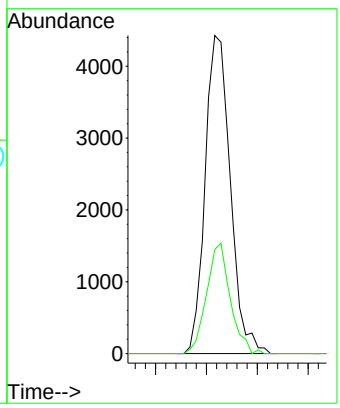
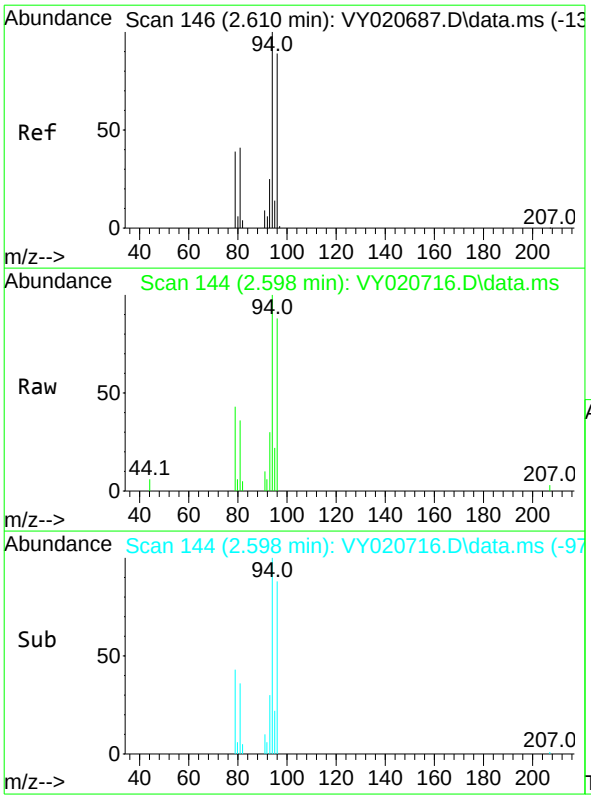



#4
Vinyl Chloride
Concen: 18.066 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 62 Resp: 7607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.7 | 26.6 | 40.0 |

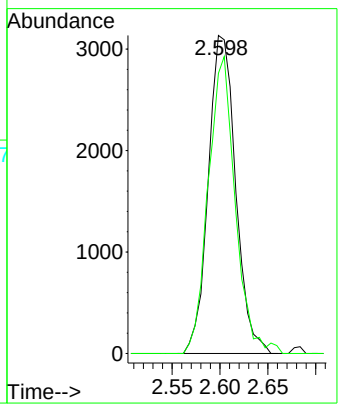





#5
Bromomethane
Concen: 19.577 ug/l
RT: 2.598 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 94 Resp: 6224

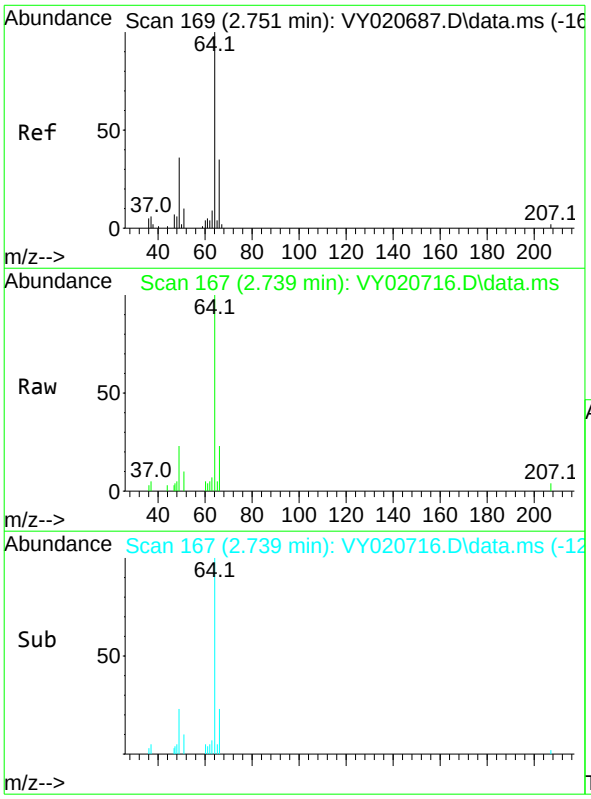
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.1 | 71.0 | 106.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

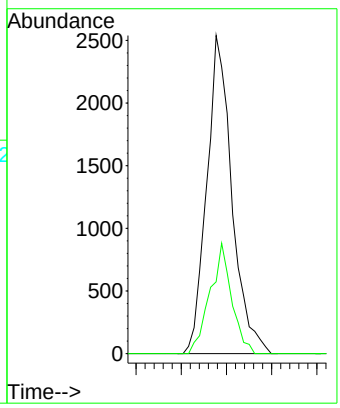
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

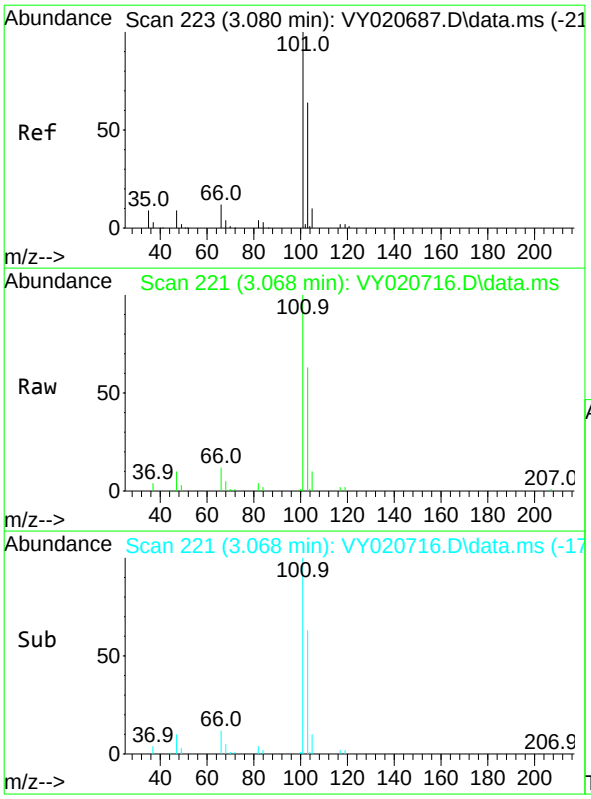



#6
Chloroethane
Concen: 19.418 ug/l
RT: 2.739 min Scan# 167
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 64 Resp: 4905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 22.6 | 27.8 | 41.8# |

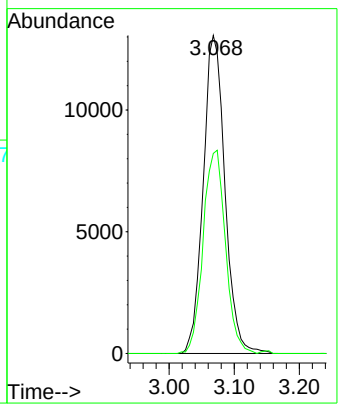





#7
Trichlorofluoromethane
Concen: 18.714 ug/l
RT: 3.068 min Scan# 22
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:101 Resp: 30303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.9 | 51.4 | 77.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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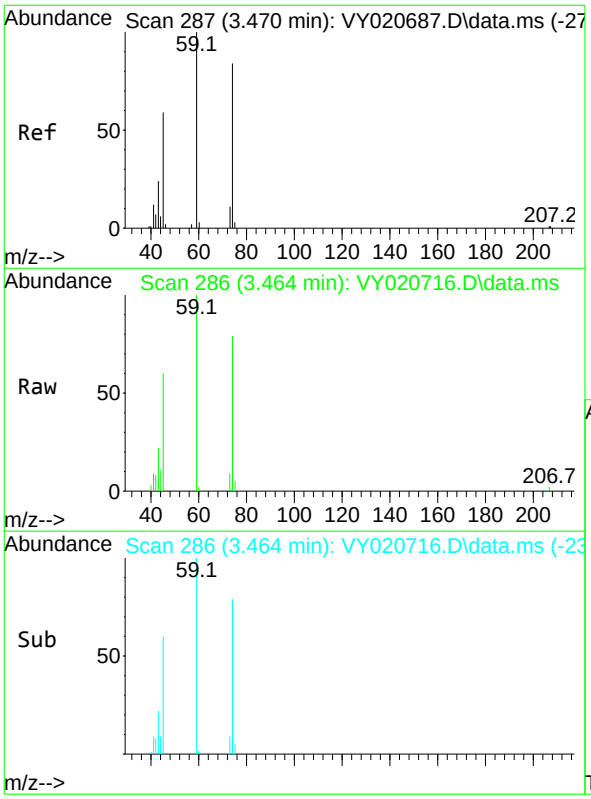
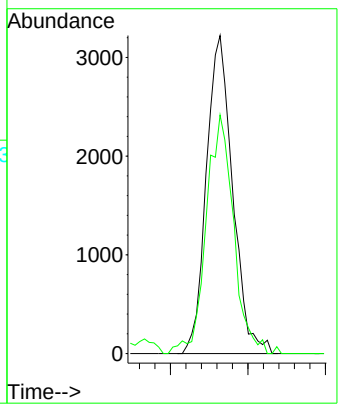
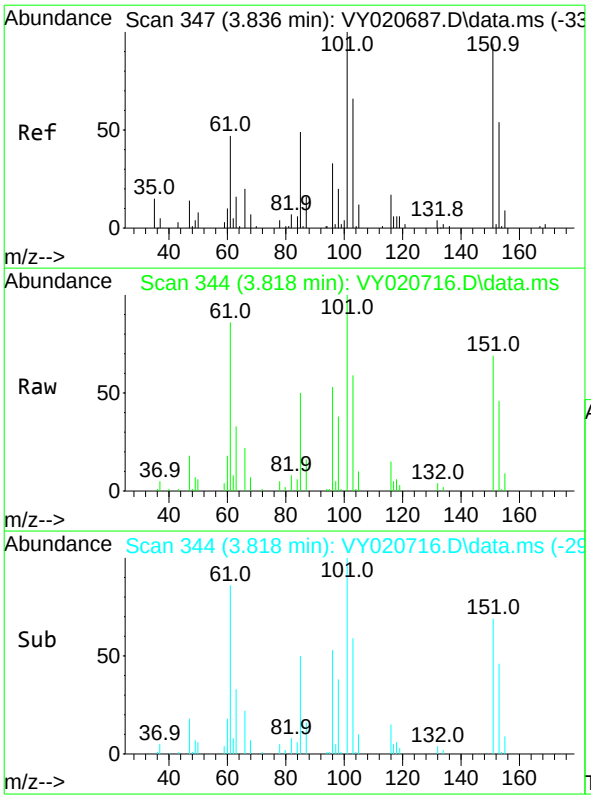



#8
Diethyl Ether
Concen: 19.690 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 74 Resp: 7587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 77.9 | 35.8 | 107.4 |

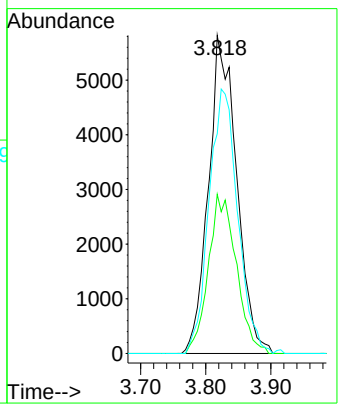





#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.650 ug/l
RT: 3.818 min Scan# 34
Delta R.T. -0.018 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:101 Resp: 17468

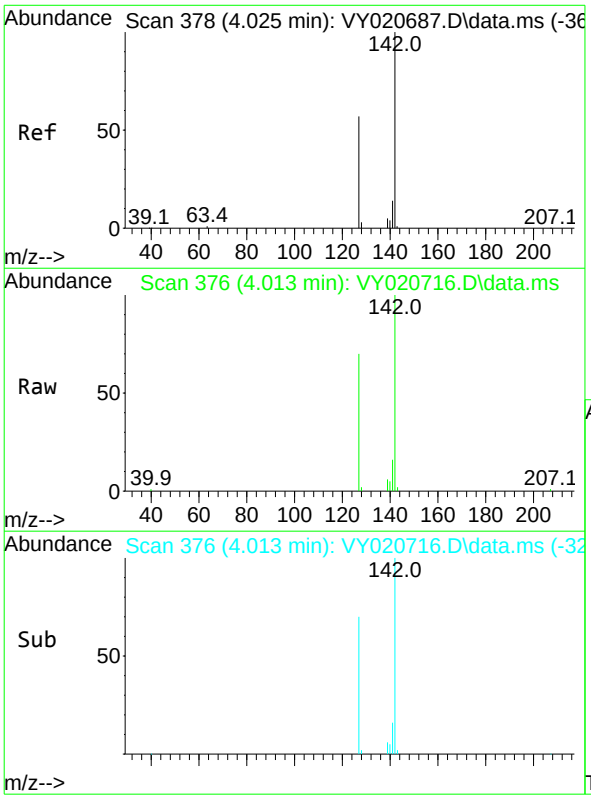
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 49.6 | 38.2 | 57.2 |
| 151 | 84.6 | 68.4 | 102.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

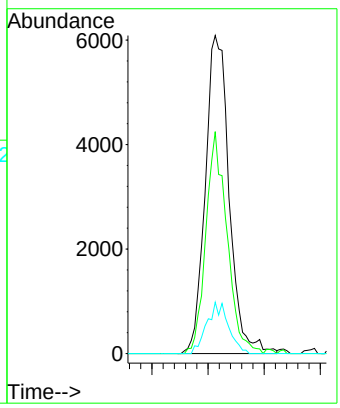
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

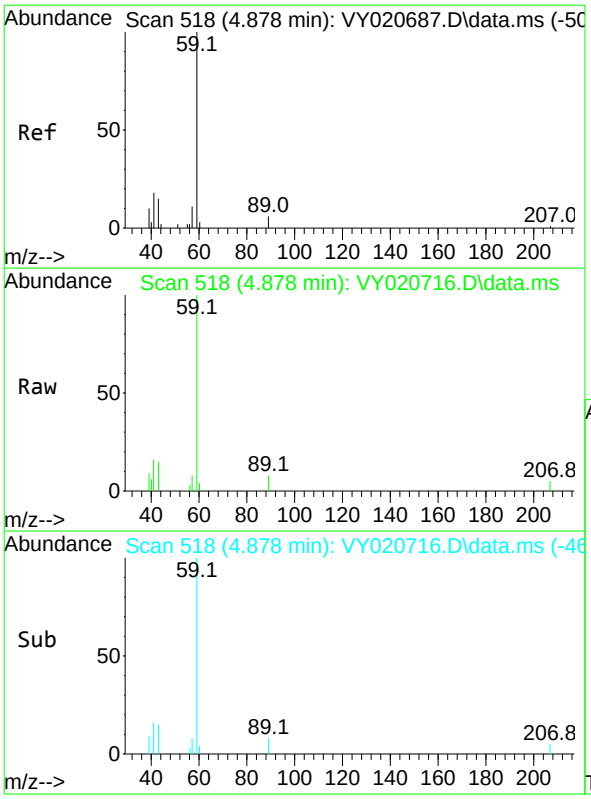



#10
Methyl Iodide
Concen: 18.511 ug/l
RT: 4.013 min Scan# 376
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:142 Resp: 17994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 61.7 | 48.8 | 73.2 |
| 141 | 14.6 | 11.9 | 17.9 |

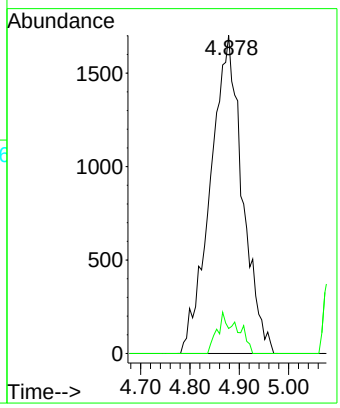





#11
Tert butyl alcohol
Concen: 118.687 ug/l
RT: 4.878 min Scan# 51
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 59 Resp: 7675

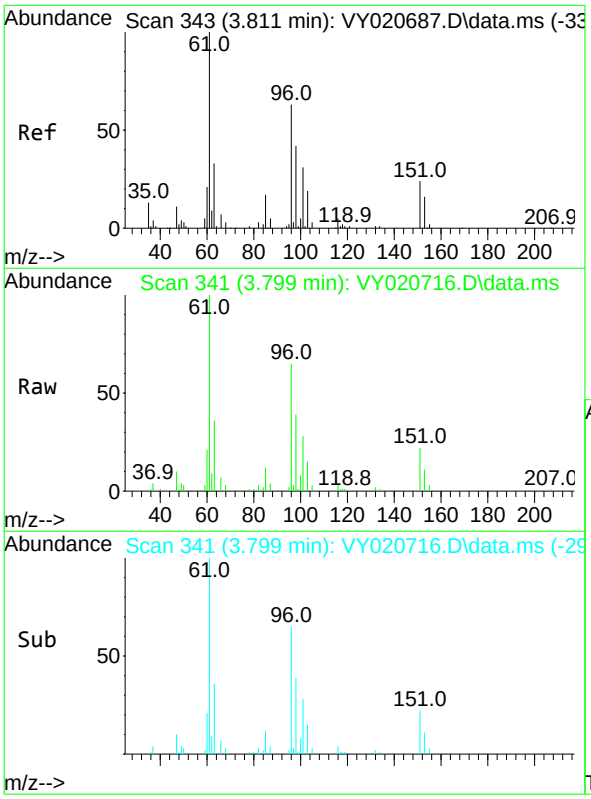
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.1 | 2.8 | 4.2# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

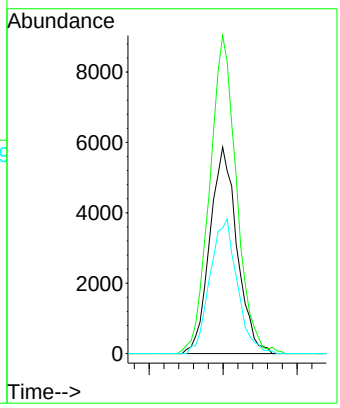
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

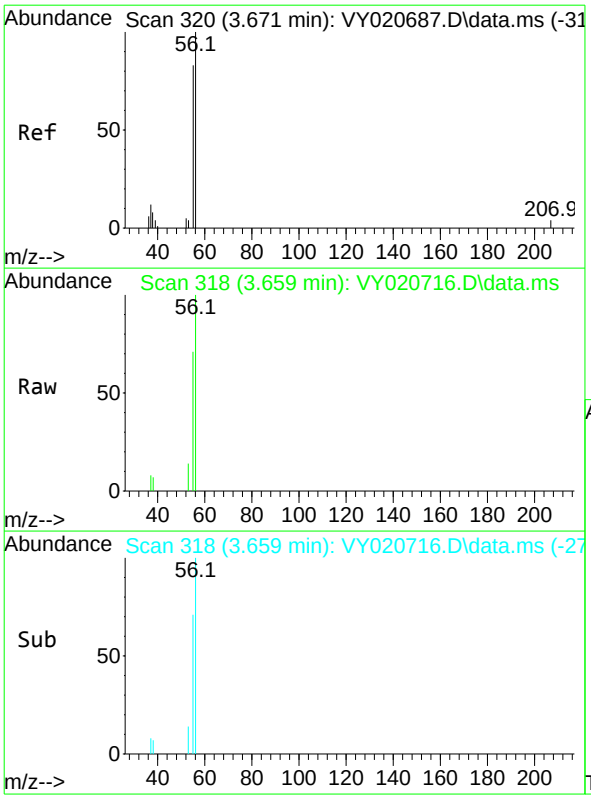



#12
1,1-Dichloroethene
Concen: 18.874 ug/l
RT: 3.799 min Scan# 341
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 96 Resp: 14934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.0 | 127.1 | 190.7 |
| 98 | 60.8 | 53.4 | 80.0 |

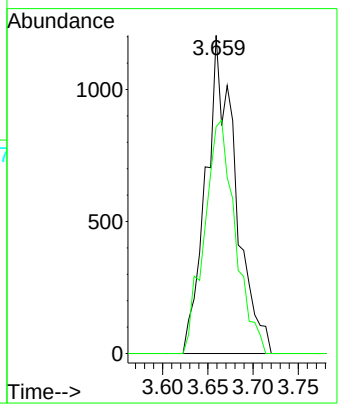





#13
Acrolein
Concen: 138.625 ug/l
RT: 3.659 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 56 Resp: 2748

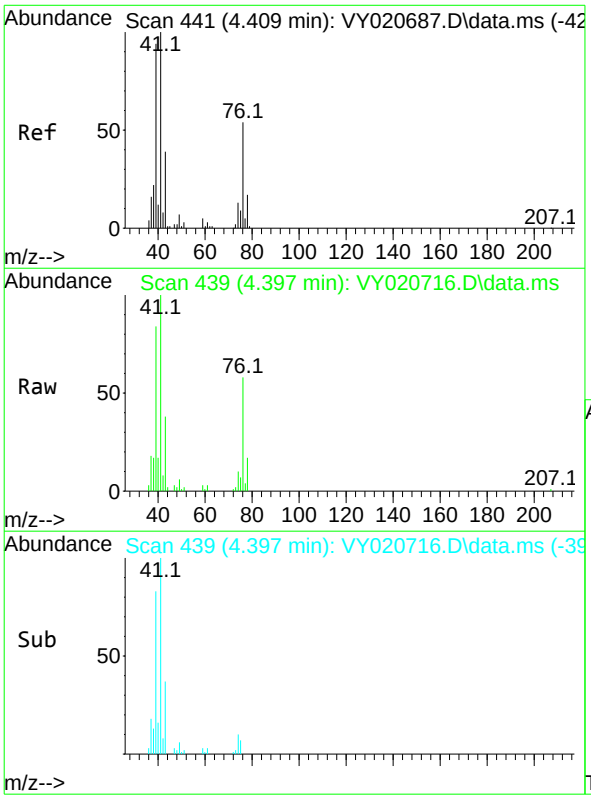
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 76.1 | 57.0 | 85.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

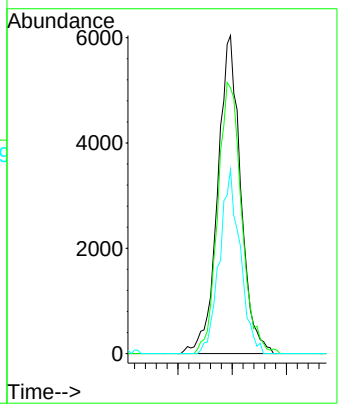
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

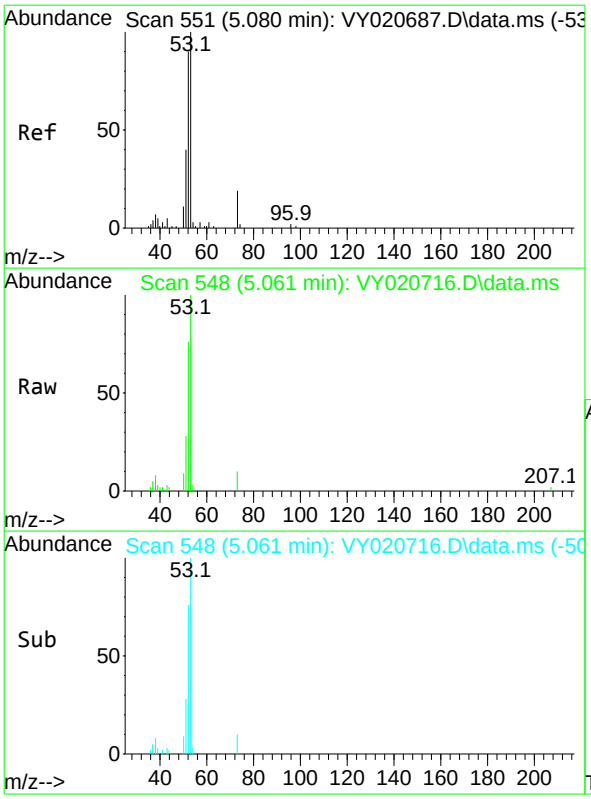



#14
Allyl chloride
Concen: 19.142 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 41 Resp: 17724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 88.0 | 73.5 | 110.3 |
| 76 | 51.8 | 41.8 | 62.8 |

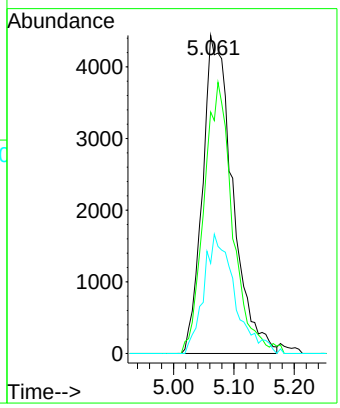





#15
Acrylonitrile
Concen: 103.122 ug/l
RT: 5.061 min Scan# 54
Delta R.T. -0.019 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 53 Resp: 15350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.7 | 67.1 | 100.7 |
| 51 | 38.8 | 31.4 | 47.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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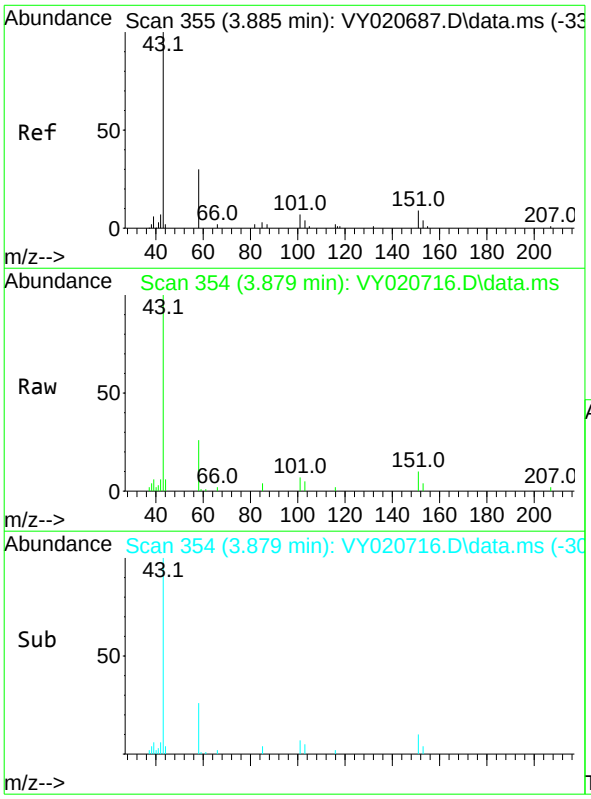
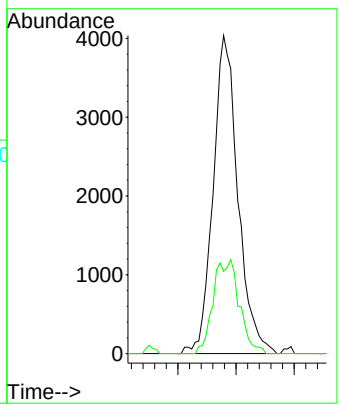
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

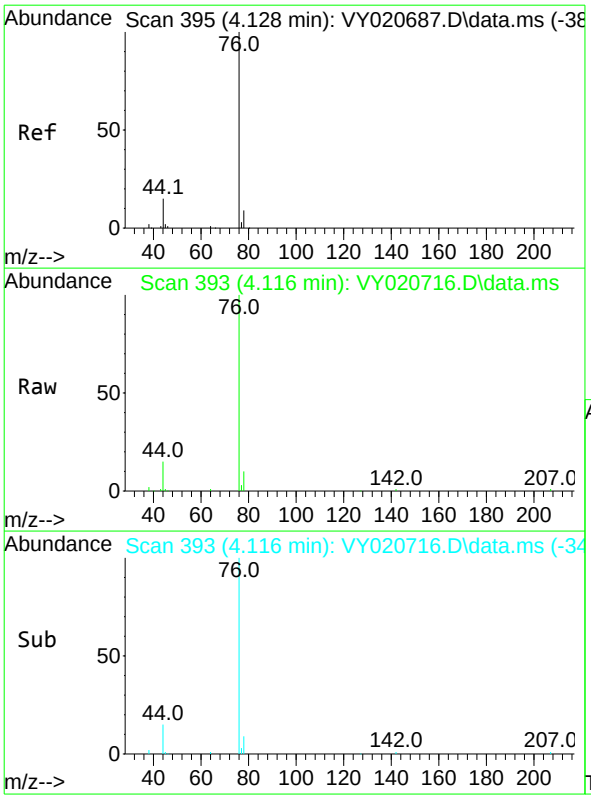



#16
Acetone
Concen: 99.286 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 11944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.8 | 25.0 | 37.6 |

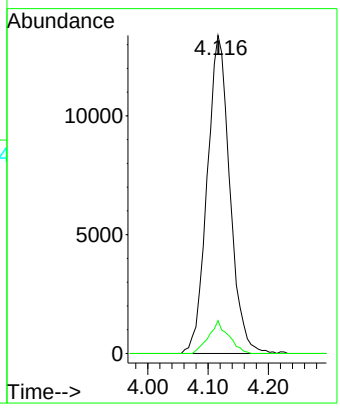





#17
Carbon Disulfide
Concen: 18.010 ug/l
RT: 4.116 min Scan# 39
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 76 Resp: 34956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.3 | 6.9 | 10.3# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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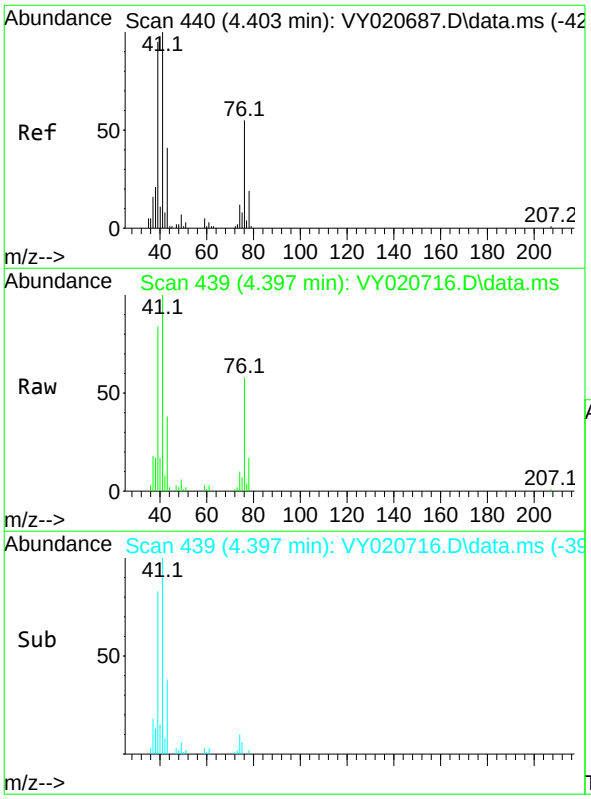
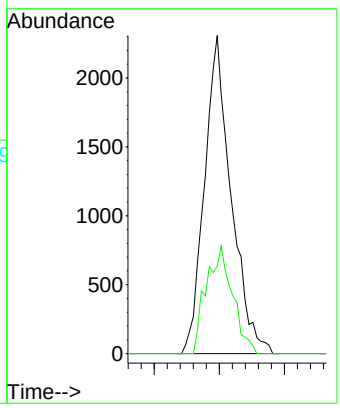
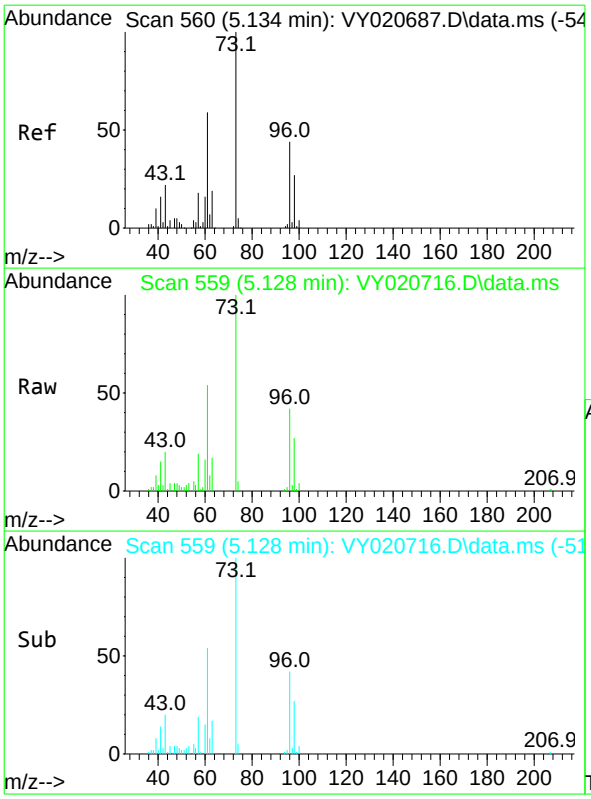



#18
Methyl Acetate
Concen: 20.136 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 6556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 33.3 | 25.3 | 37.9 |

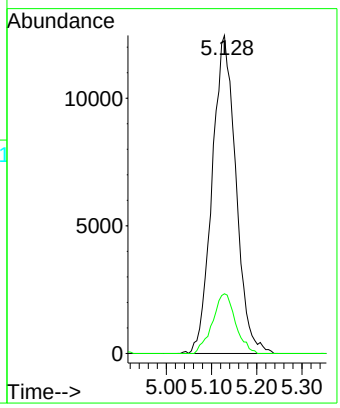





#19
Methyl tert-butyl Ether
Concen: 20.603 ug/l
RT: 5.128 min Scan# 55
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 73 Resp: 45438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 18.8 | 14.4 | 21.6 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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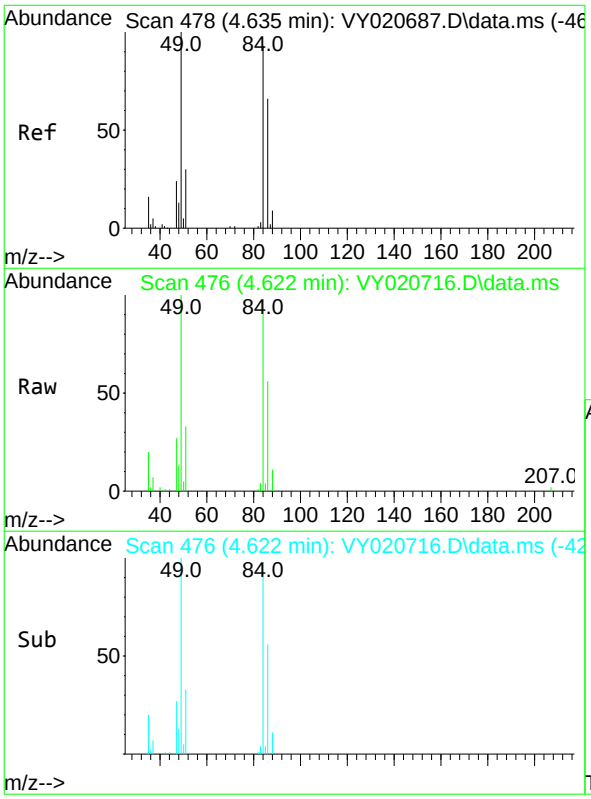
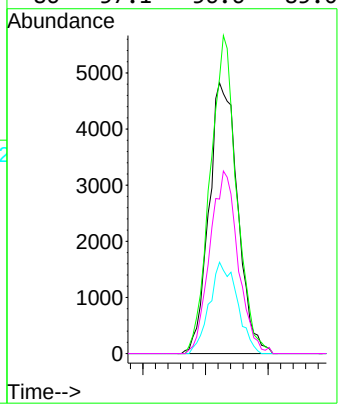
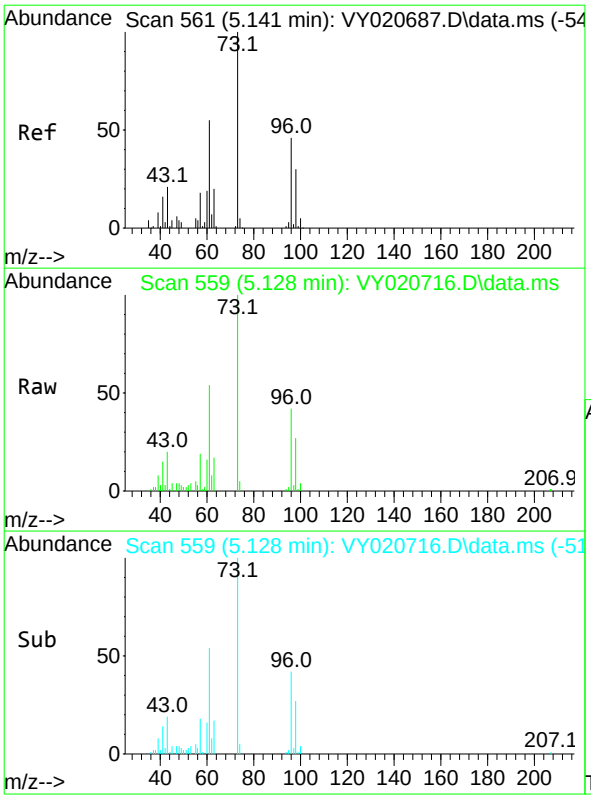



#20
Methylene Chloride
Concen: 19.651 ug/l
RT: 4.622 min Scan# 476
Delta R.T. -0.013 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 84 Resp: 15375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 101.8 | 86.4 | 129.6 |
| 51 | 33.8 | 25.5 | 38.3 |
| 86 | 57.1 | 56.6 | 85.0 |

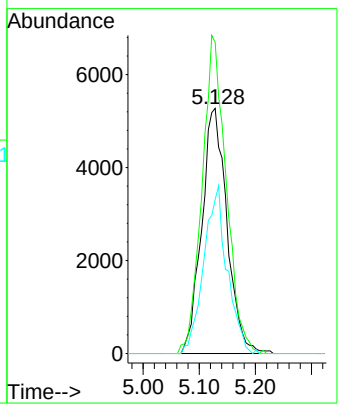





#21
trans-1,2-Dichloroethene
Concen: 19.321 ug/l
RT: 5.128 min Scan# 55
Delta R.T. -0.013 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 96 Resp: 16474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.0 | 96.1 | 144.1 |
| 98 | 62.8 | 52.7 | 79.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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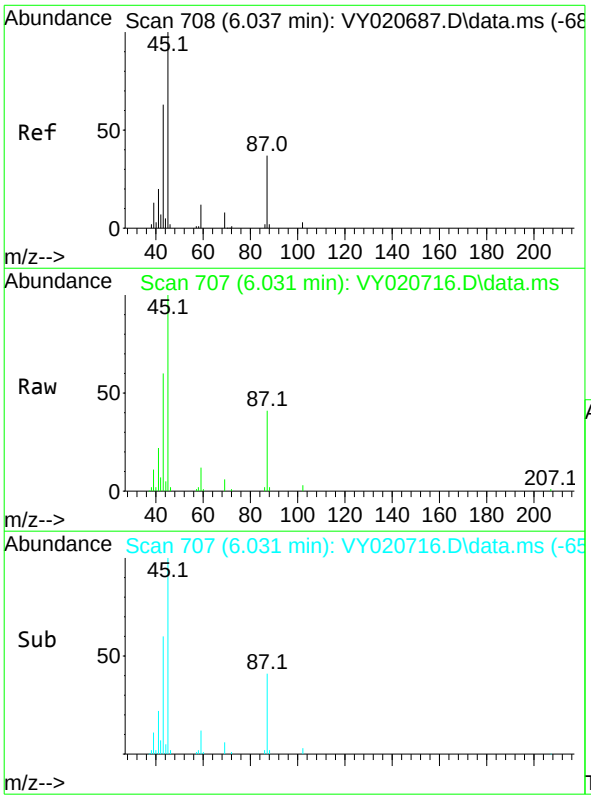
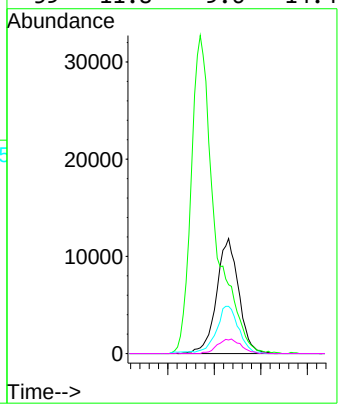
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

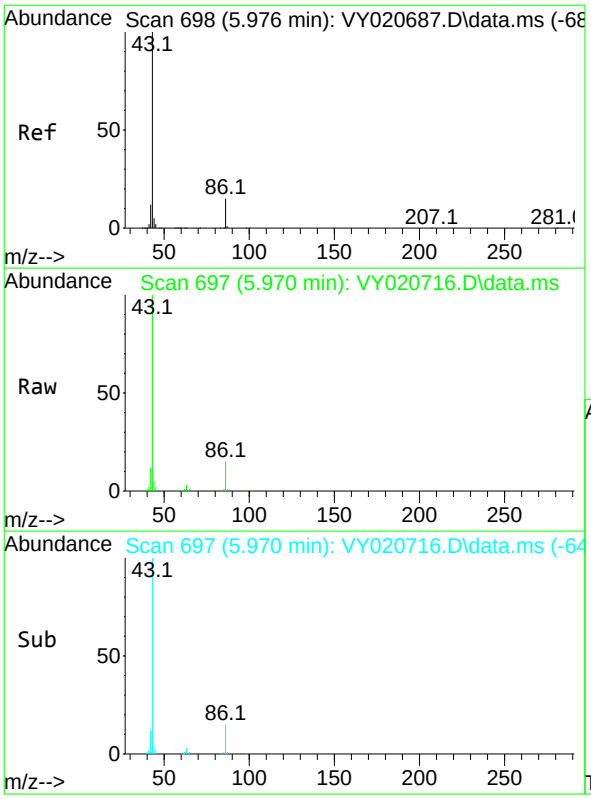



#22
Diisopropyl ether
Concen: 20.704 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 45 Resp: 38970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.9 | 51.3 | 76.9 |
| 87 | 41.1 | 30.6 | 46.0 |
| 59 | 11.8 | 9.6 | 14.4 |

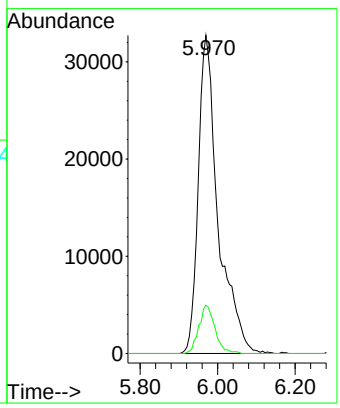





#23
Vinyl Acetate
Concen: 103.614 ug/l
RT: 5.970 min Scan# 69
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 116491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 15.2 | 12.0 | 18.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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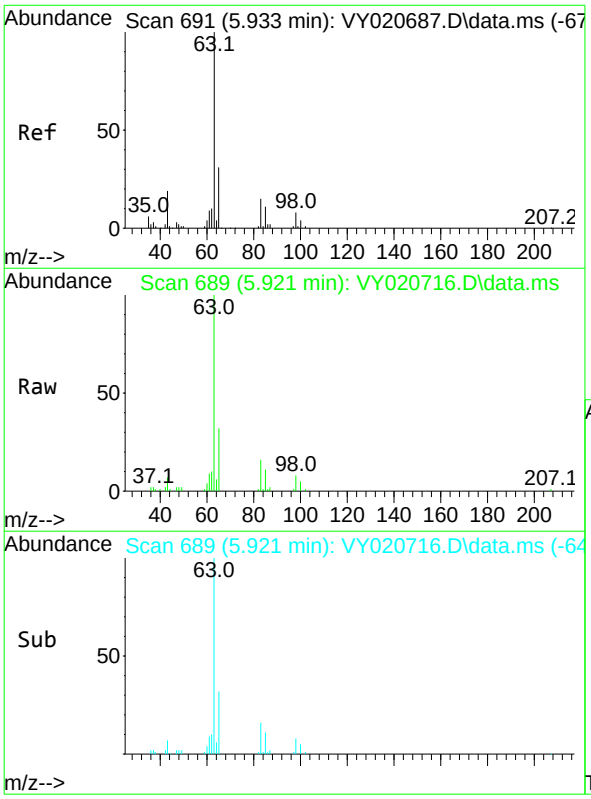
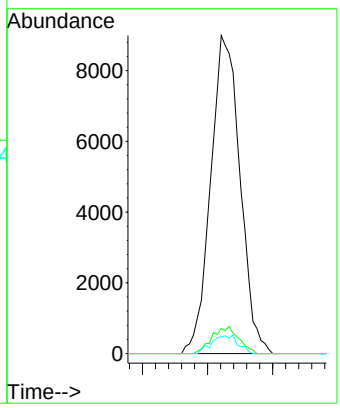
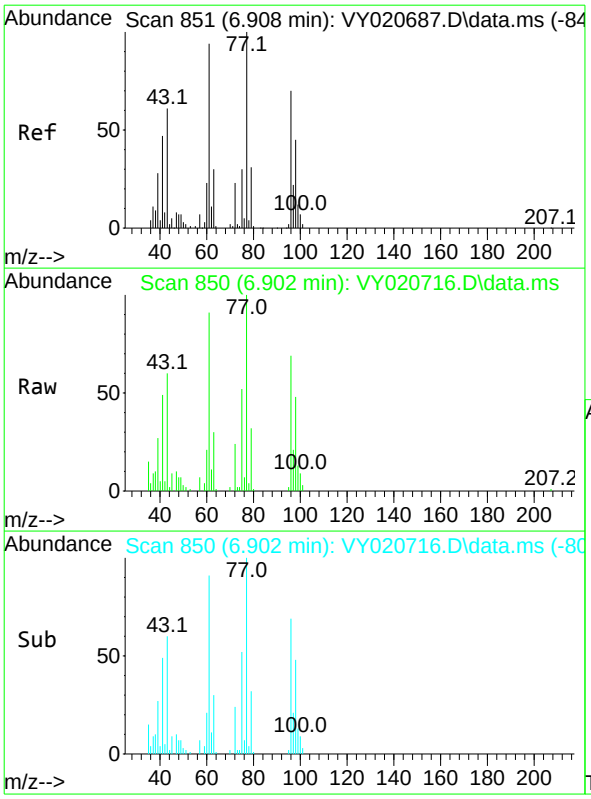



#24
1,1-Dichloroethane
Concen: 19.977 ug/l
RT: 5.921 min Scan# 689
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 63 Resp: 28192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.9 | 4.0 | 12.0 |
| 100 | 5.2 | 2.1 | 6.2 |

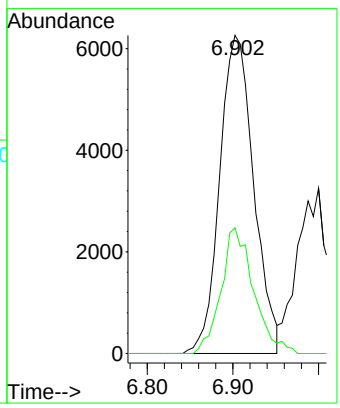





#25
2-Butanone
Concen: 106.360 ug/l
RT: 6.902 min Scan# 85
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 17284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 39.5 | 29.5 | 44.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

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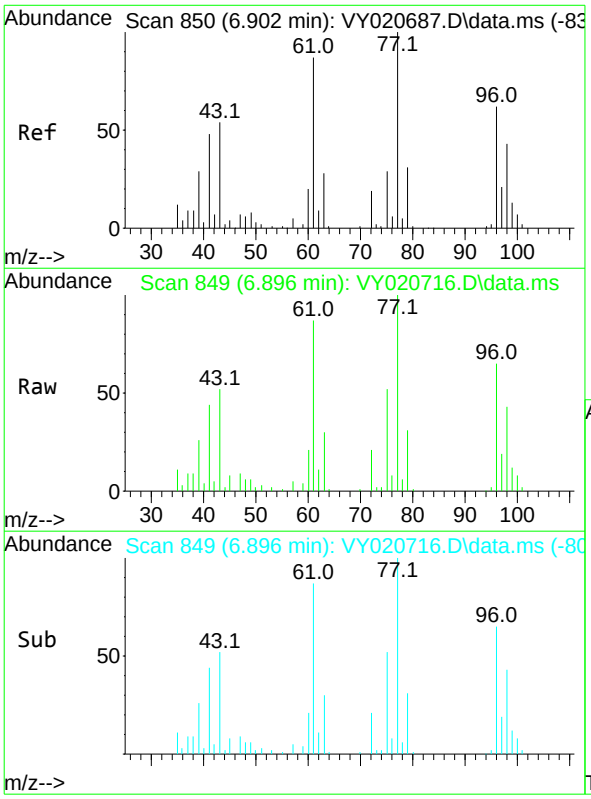
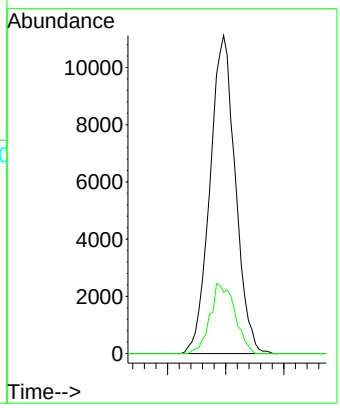
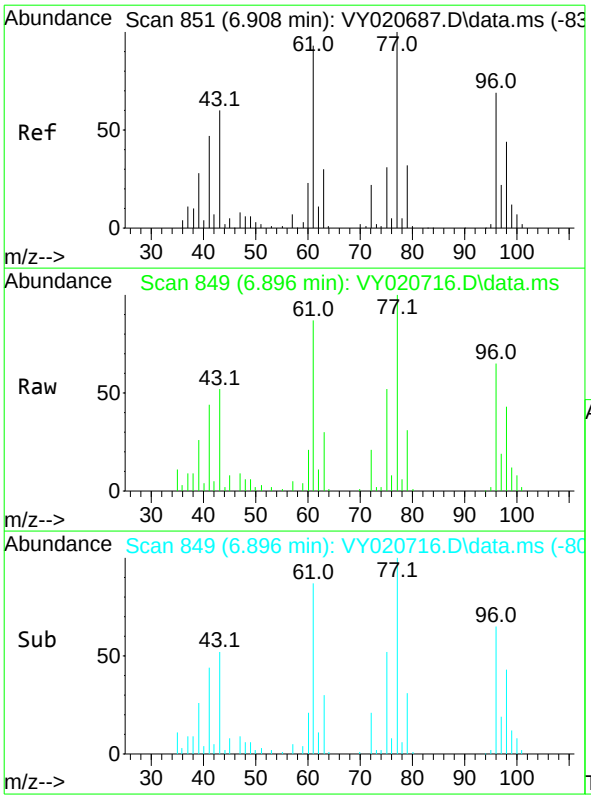



#26
2,2-Dichloropropane
Concen: 19.523 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 77 Resp: 33722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.5 | 10.8 | 32.4 |

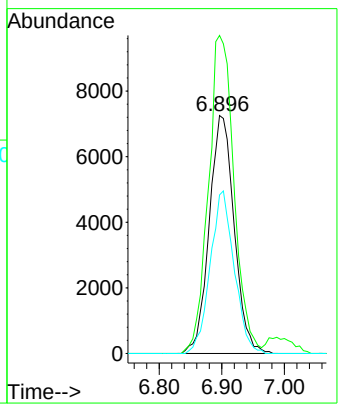





#27
cis-1,2-Dichloroethene
Concen: 19.674 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 96 Resp: 20089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.2 | 0.0 | 277.2 |
| 98 | 65.6 | 0.0 | 131.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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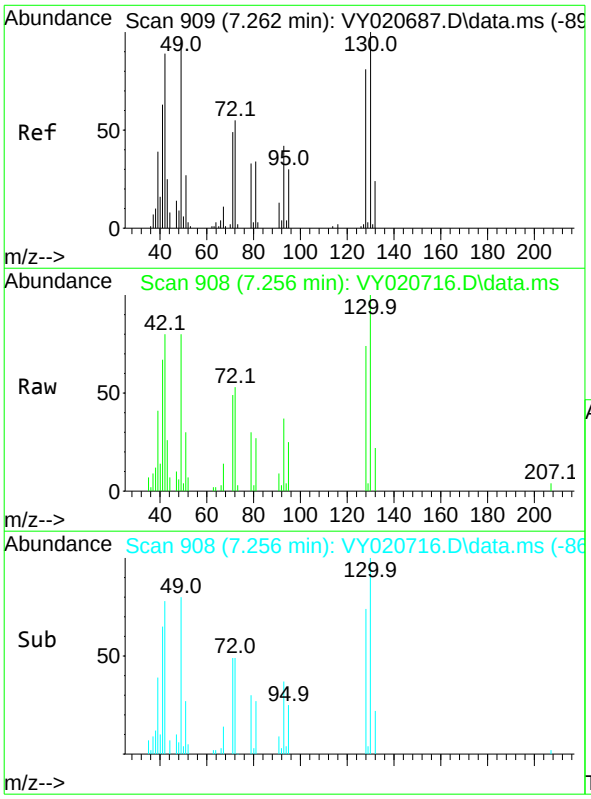
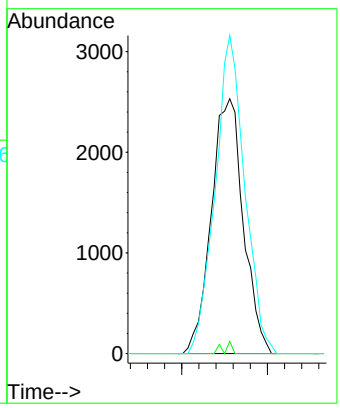
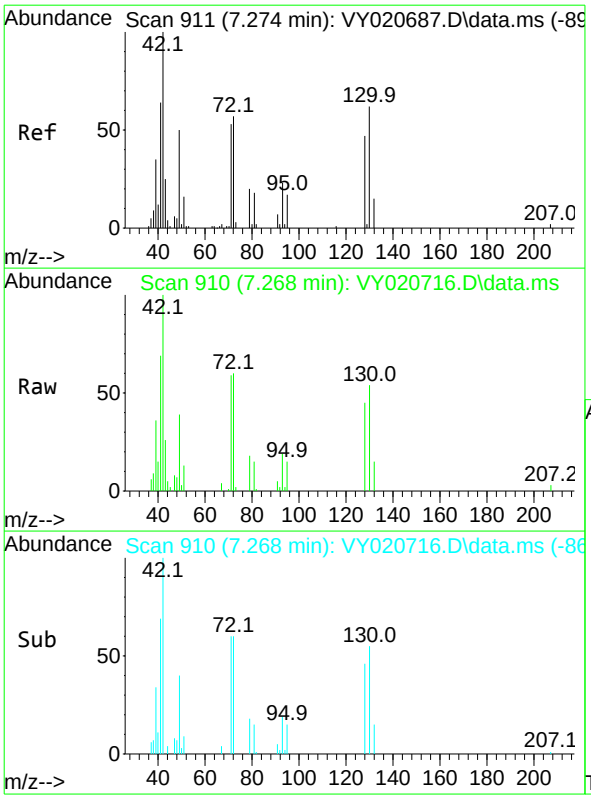



#28
Bromochloromethane
Concen: 17.613 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 49 Resp: 6573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.5 | 0.0 | 5.4 |
| 130 | 115.5 | 87.2 | 130.8 |

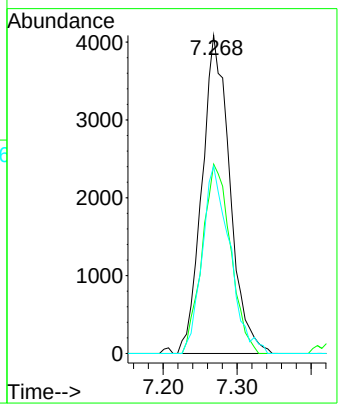





#29
Tetrahydrofuran
Concen: 106.889 ug/l
RT: 7.268 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 42 Resp: 10662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 60.8 | 47.4 | 71.0 |
| 71 | 58.6 | 42.8 | 64.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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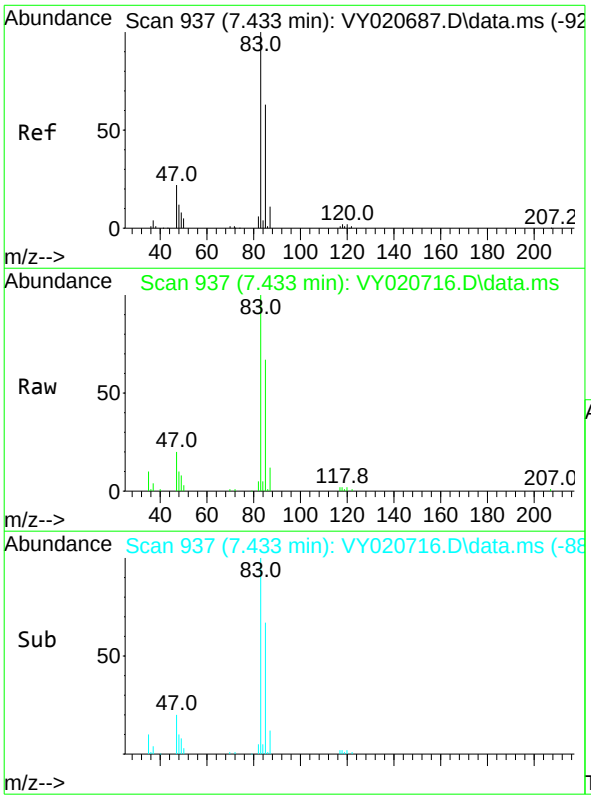
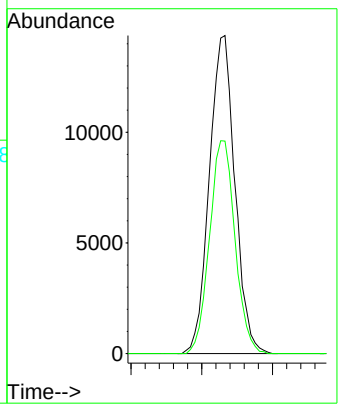
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

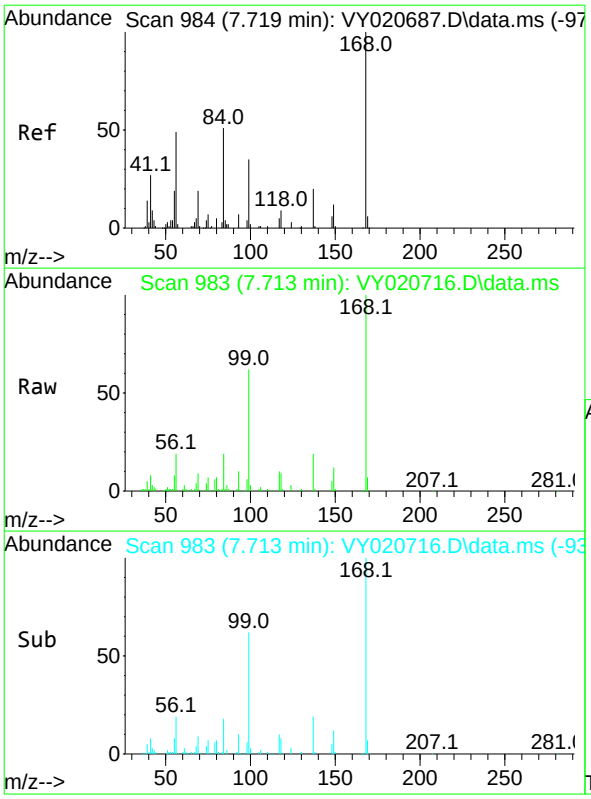



#30
Chloroform
Concen: 19.857 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 83 Resp: 36048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.8 | 50.2 | 75.2 |






#31
Cyclohexane
Concen: 19.155 ug/l
RT: 7.713 min Scan# 98
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 56 Resp: 23333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 47.7 | 31.3 | 46.9# |
| 84 | 101.7 | 83.9 | 125.9 |

**Instrument :**
MSVOA_Y
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VY1226SBSD01

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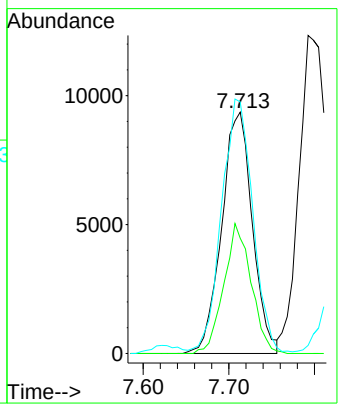
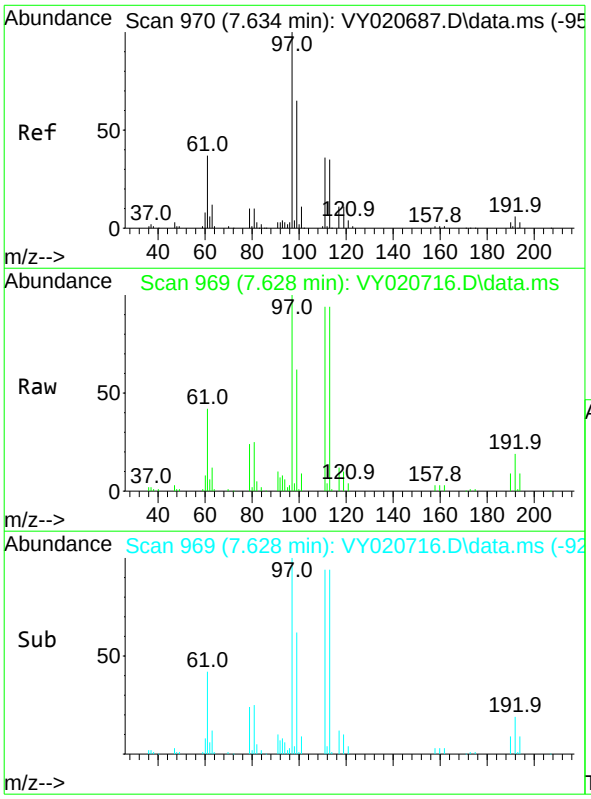
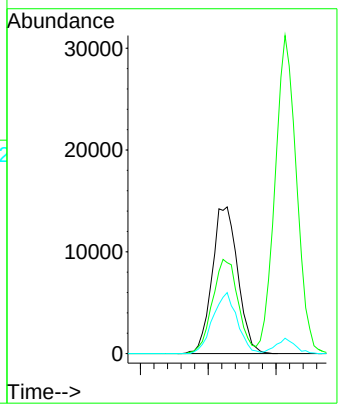


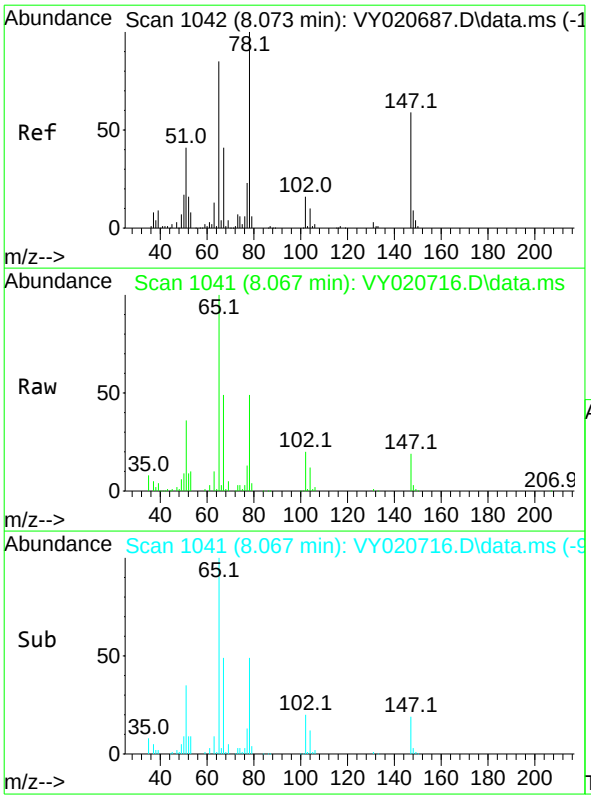




#32
1,1,1-Trichloroethane
Concen: 19.495 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 97 Resp: 37936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.0 | 76.6 |
| 61 | 39.5 | 30.0 | 45.0 |

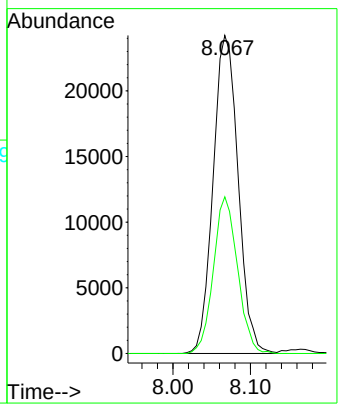





#33
1,2-Dichloroethane-d4
Concen: 57.297 ug/l
RT: 8.067 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 65 Resp: 54334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 47.5 | 0.0 | 98.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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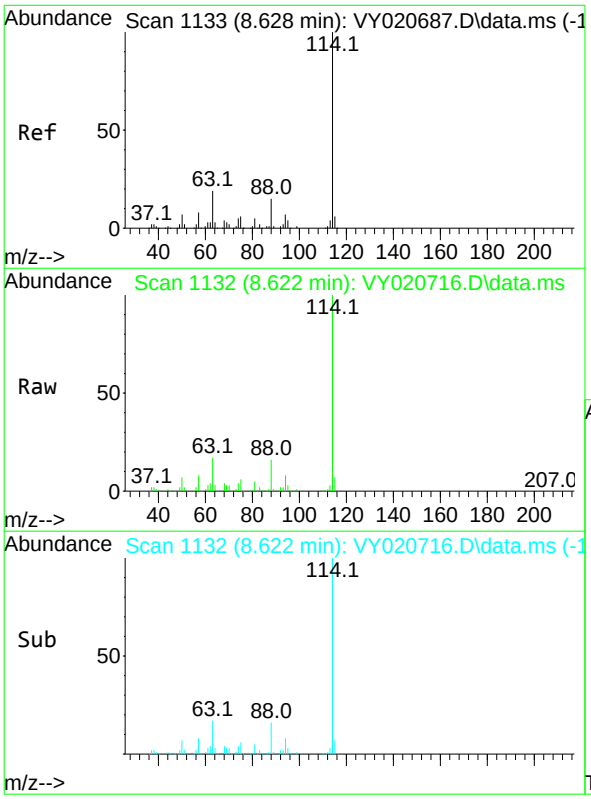
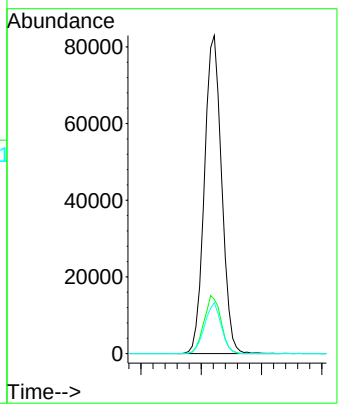
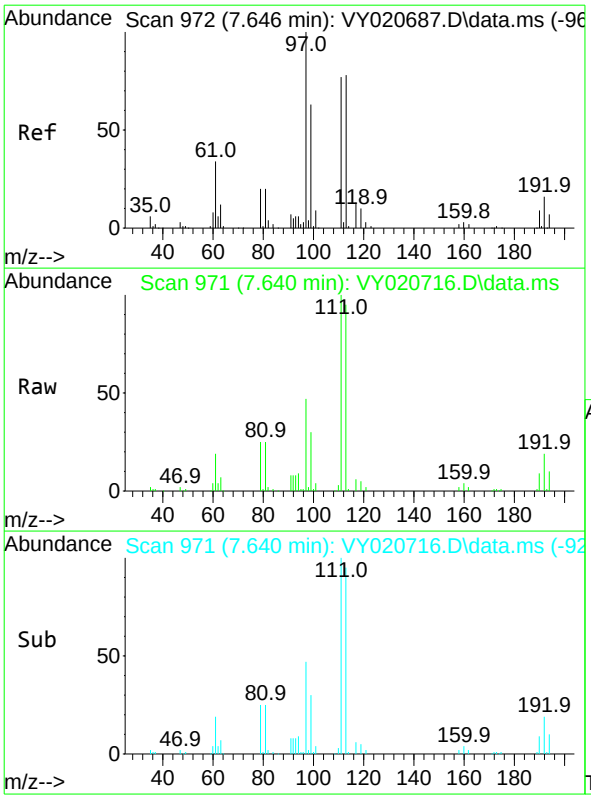



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:114 Resp: 164224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.0 | 0.0 | 38.4 |
| 88 | 16.0 | 0.0 | 30.4 |

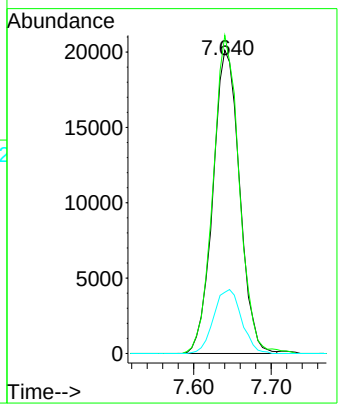





#35
Dibromofluoromethane
Concen: 53.153 ug/l
RT: 7.640 min Scan# 97
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:113 Resp: 48081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 79.8 | 119.8 |
| 192 | 22.0 | 17.0 | 25.6 |




**Instrument :**
MSVOA_Y
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VY1226SBSD01

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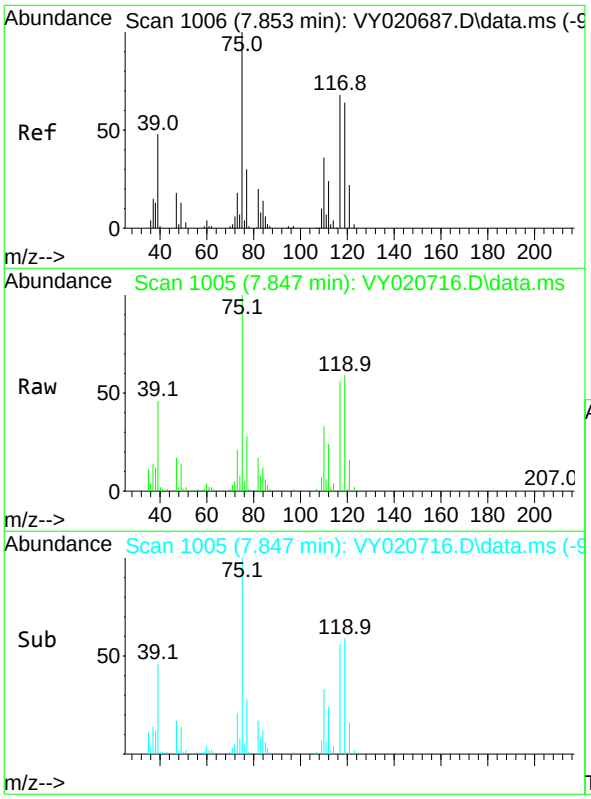
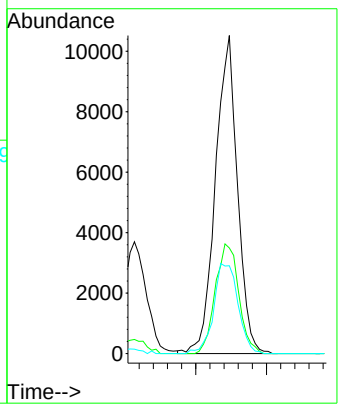
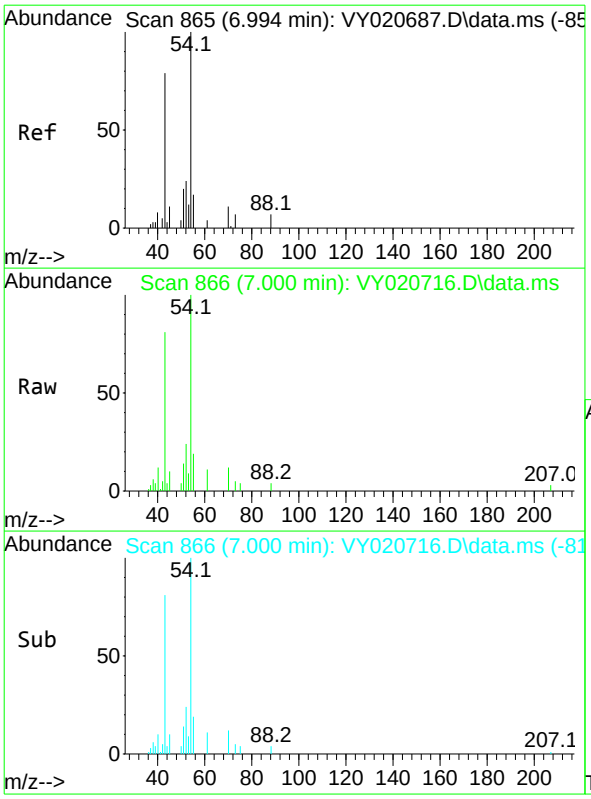



#36
1,1-Dichloropropene
Concen: 19.036 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 75 Resp: 22746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.7 | 19.6 | 58.7 |
| 77 | 31.2 | 25.1 | 37.7 |

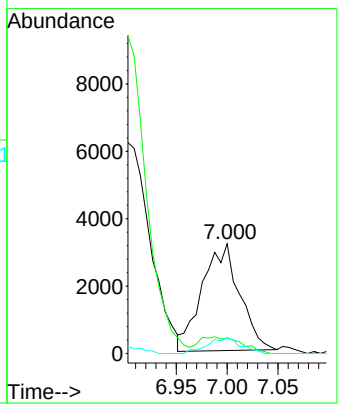





#37
Ethyl Acetate
Concen: 20.559 ug/l
RT: 7.000 min Scan# 86
Delta R.T. 0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 8095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.7 | 11.7 | 17.5# |
| 70 | 13.2 | 11.0 | 16.4 |




**Instrument :**
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VY1226SBSD01

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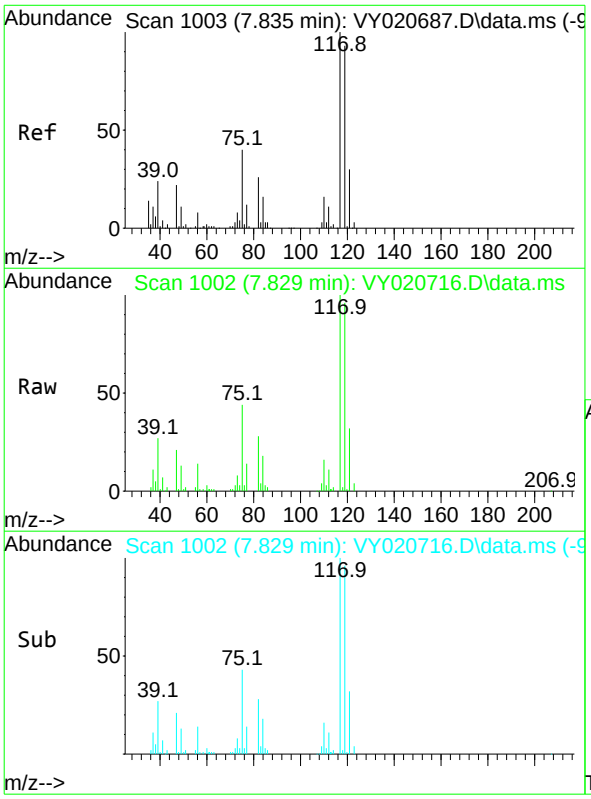
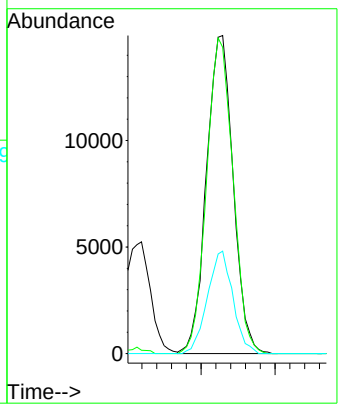
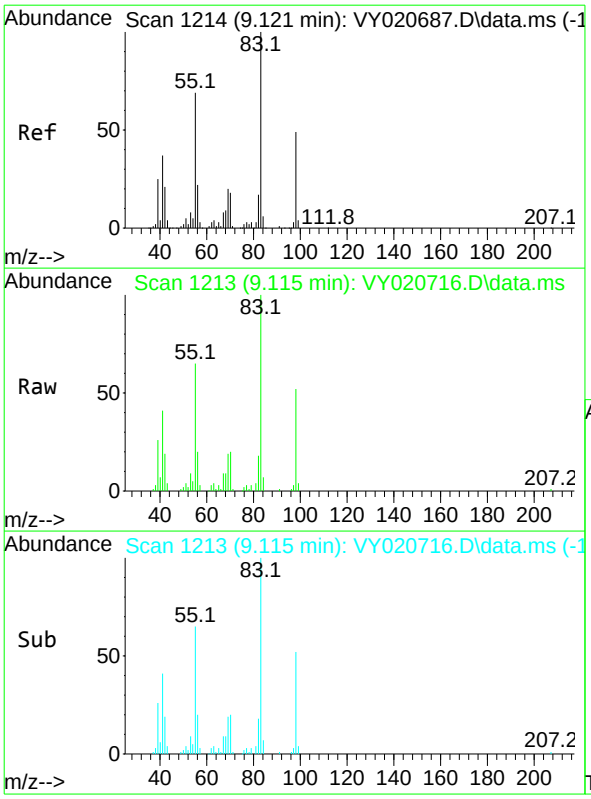



#38
Carbon Tetrachloride
Concen: 18.985 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:117 Resp: 37355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.3 | 74.4 | 111.6 |
| 121 | 32.2 | 24.2 | 36.2 |






#39
Methylcyclohexane
Concen: 19.205 ug/l
RT: 9.115 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 83 Resp: 29413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.0 | 55.0 | 82.4 |
| 98 | 52.1 | 39.0 | 58.6 |

**Instrument :**
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**Manual Integrations**
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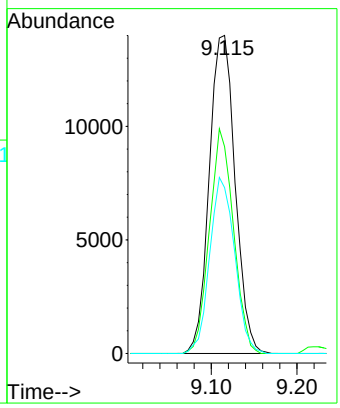
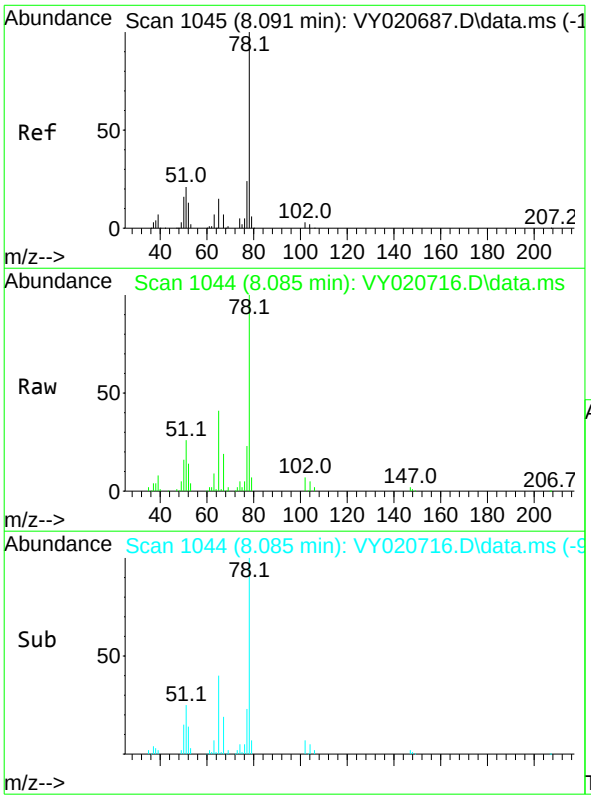
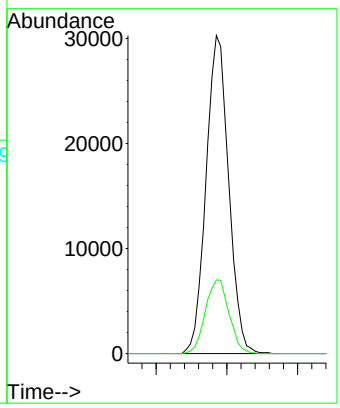


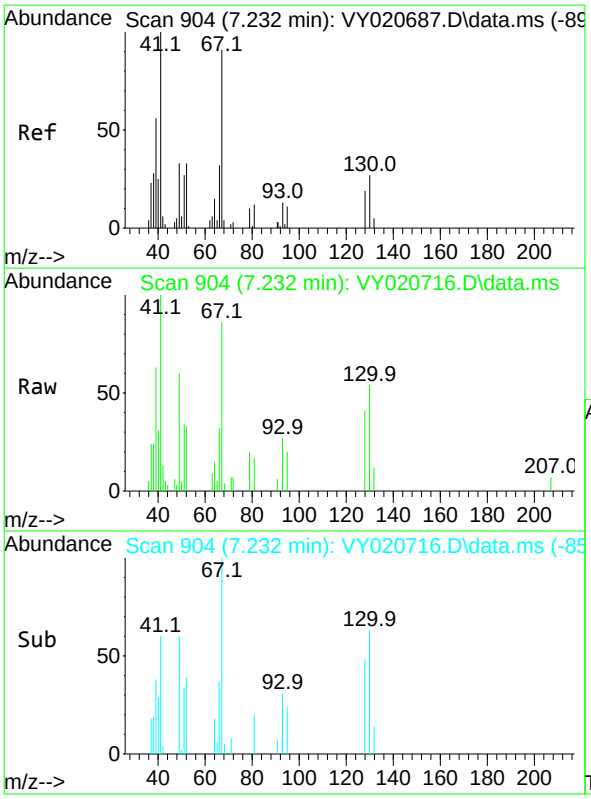




#40
Benzene
Concen: 19.404 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 78 Resp: 67196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 19.2 | 28.8 |

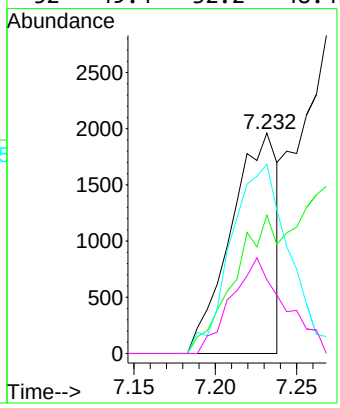





#41
Methacrylonitrile
Concen: 19.679 ug/l
RT: 7.232 min Scan# 90
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 41 Resp: 3914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.8 | 46.6 | 70.0 |
| 67 | 107.6 | 74.7 | 112.1 |
| 52 | 49.4 | 32.2 | 48.4# |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
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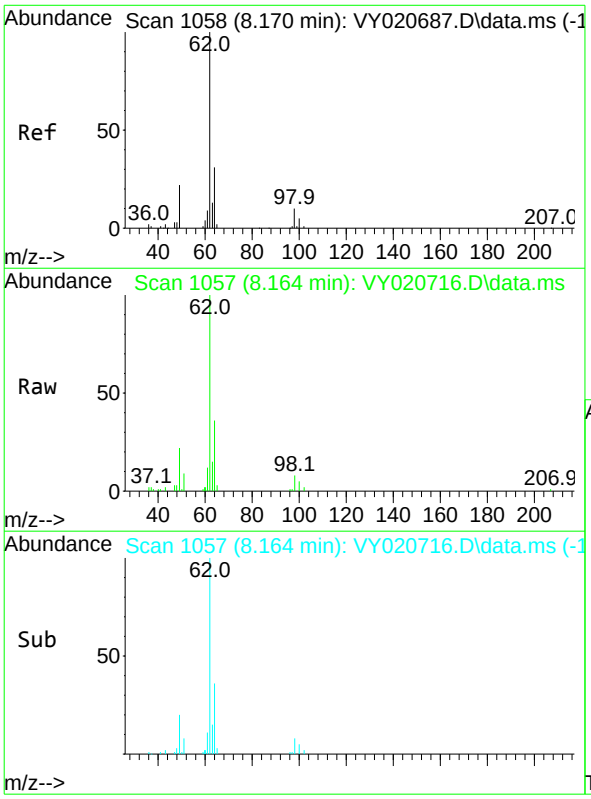
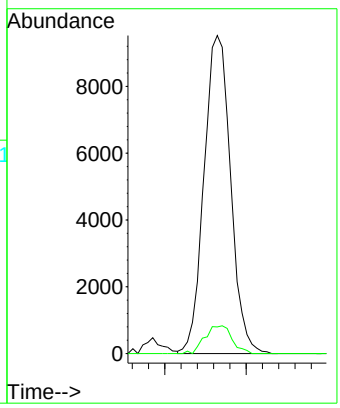
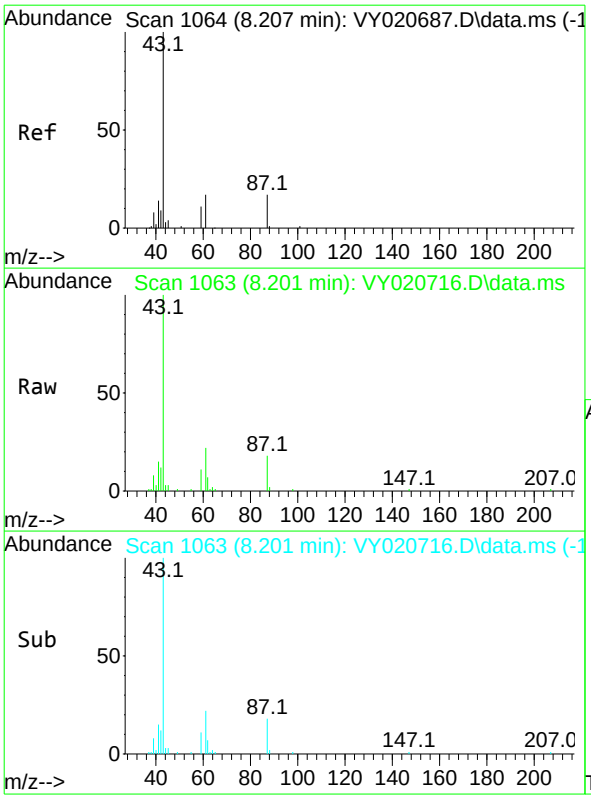



#42
1,2-Dichloroethane
Concen: 19.473 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 62 Resp: 21623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.9 | 0.0 | 16.6 |

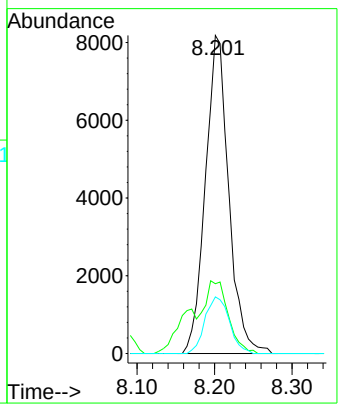





#43
Isopropyl Acetate
Concen: 20.432 ug/l
RT: 8.201 min Scan# 10
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 17100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 23.8 | 27.0 | 40.4# |
| 87 | 18.7 | 14.2 | 21.4 |




**Instrument :**
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VY1226SBSD01

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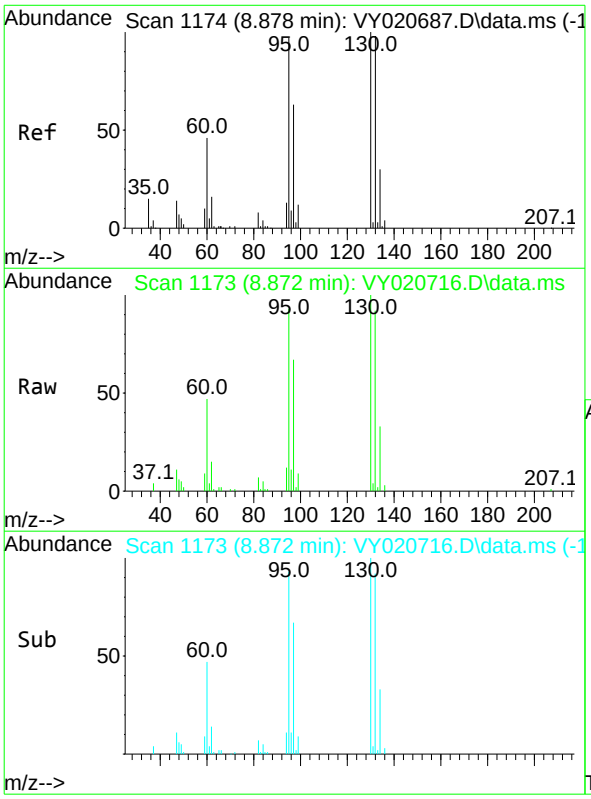
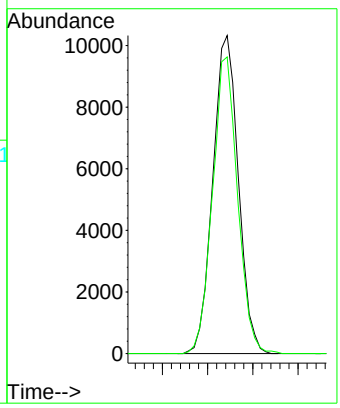
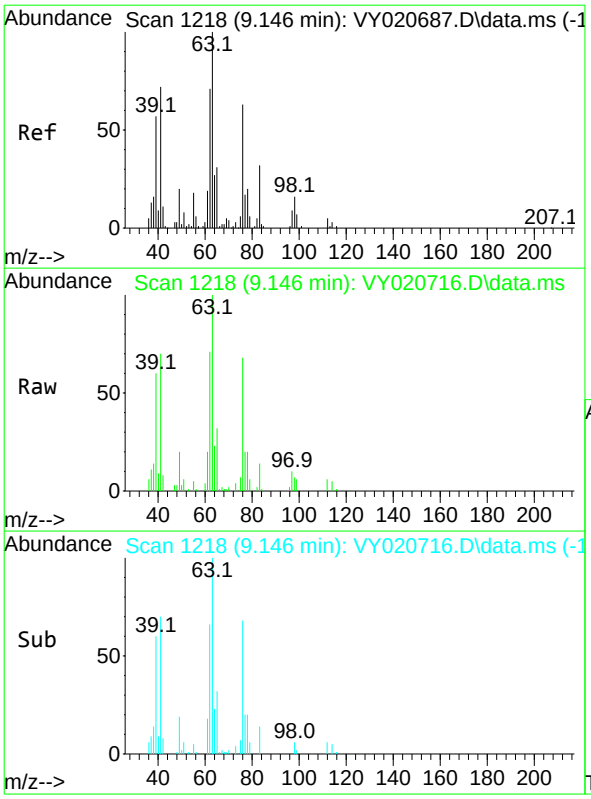



#44
Trichloroethene
Concen: 19.567 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:130 Resp: 20239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.3 | 0.0 | 194.8 |

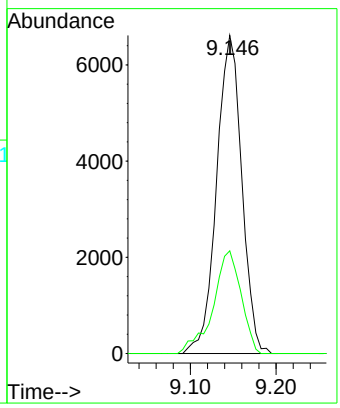





#45
1,2-Dichloropropane
Concen: 19.262 ug/l
RT: 9.146 min Scan# 12
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 63 Resp: 13502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.3 | 24.6 | 36.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

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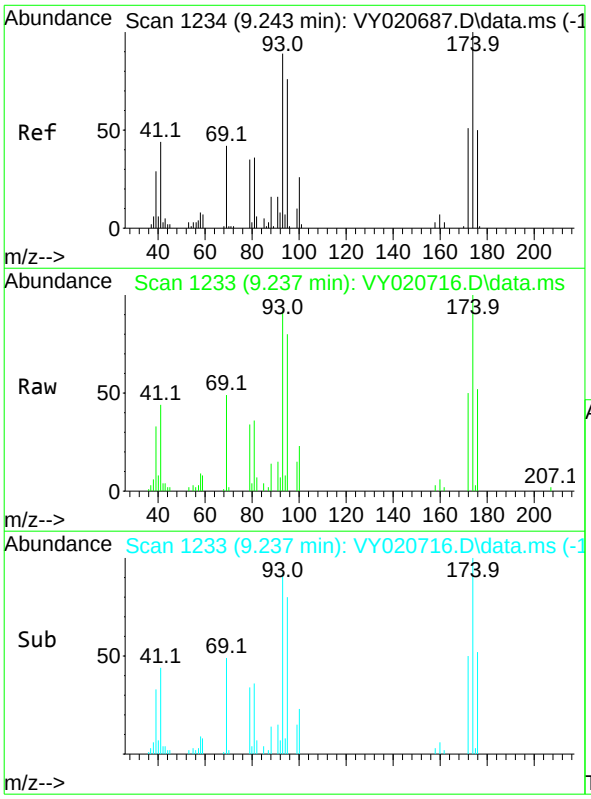
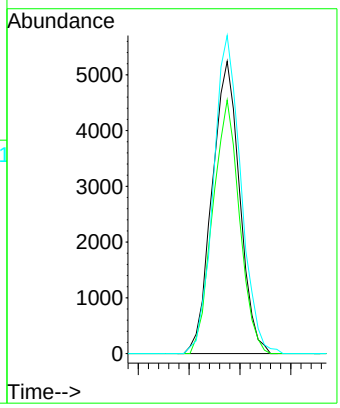
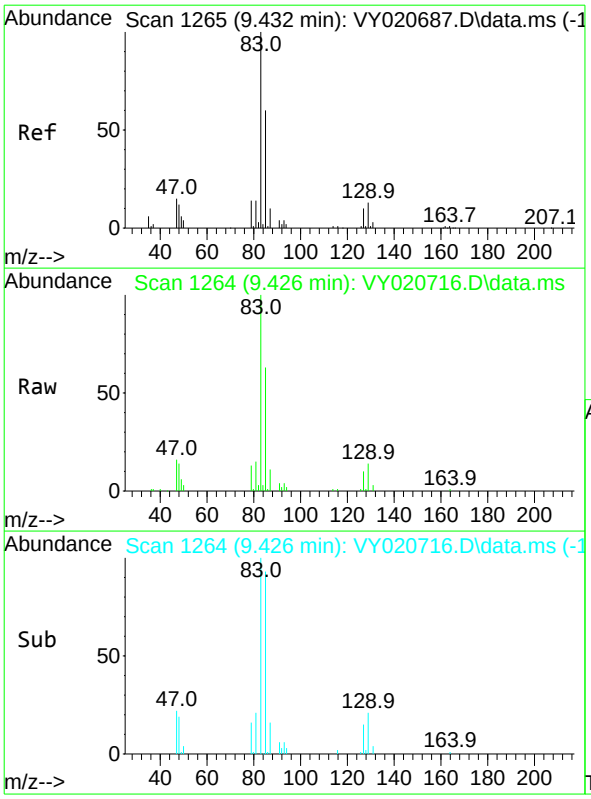



#46
Dibromomethane
Concen: 20.387 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 93 Resp: 9888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.9 | 67.8 | 101.8 |
| 174 | 108.3 | 89.4 | 134.0 |

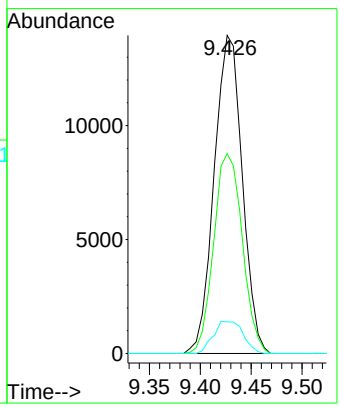





#47
Bromodichloromethane
Concen: 19.469 ug/l
RT: 9.426 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 83 Resp: 26772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.8 | 47.6 | 71.4 |
| 127 | 9.9 | 7.9 | 11.9 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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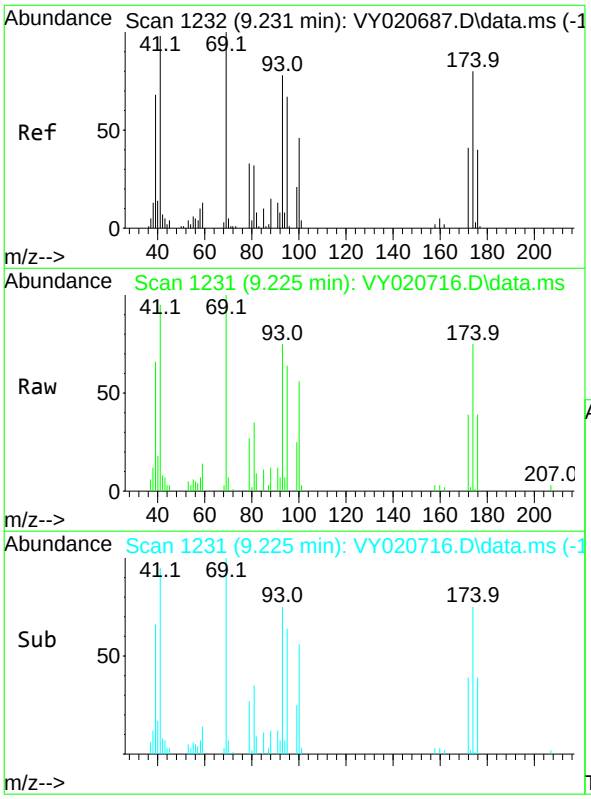
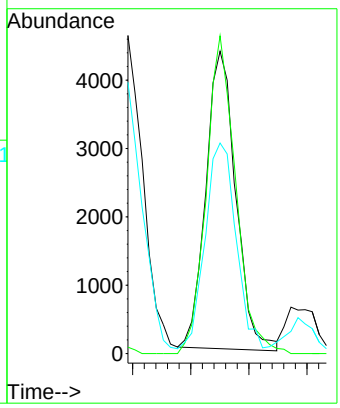
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

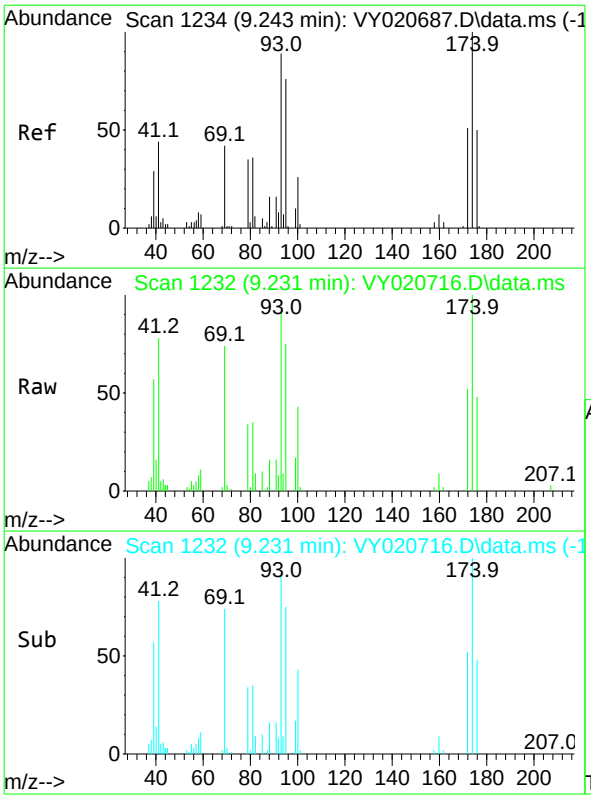



#48
Methyl methacrylate
Concen: 19.957 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 41 Resp: 7800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 104.7 | 83.1 | 124.7 |
| 39 | 71.9 | 57.3 | 85.9 |






#49
1,4-Dioxane
Concen: 461.904 ug/l
RT: 9.231 min Scan# 12
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 88 Resp: 2134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 22.1 | 33.1 |
| 58 | 45.9 | 46.7 | 70.1# |

**Instrument :**
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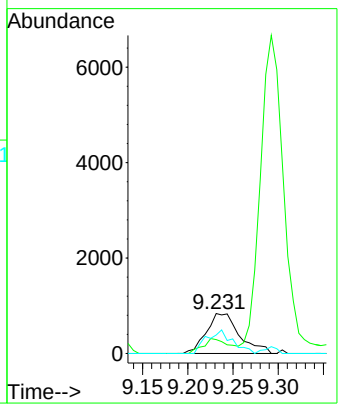
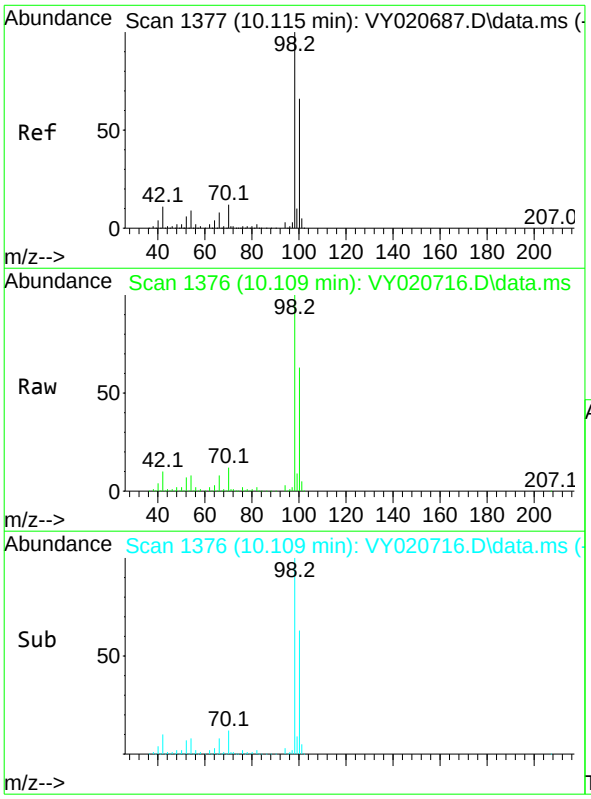
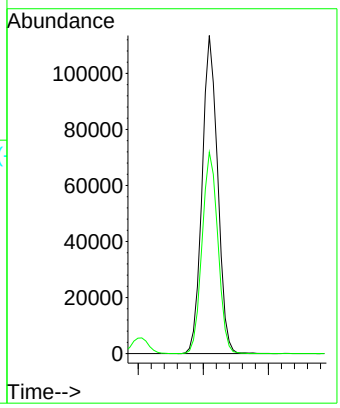


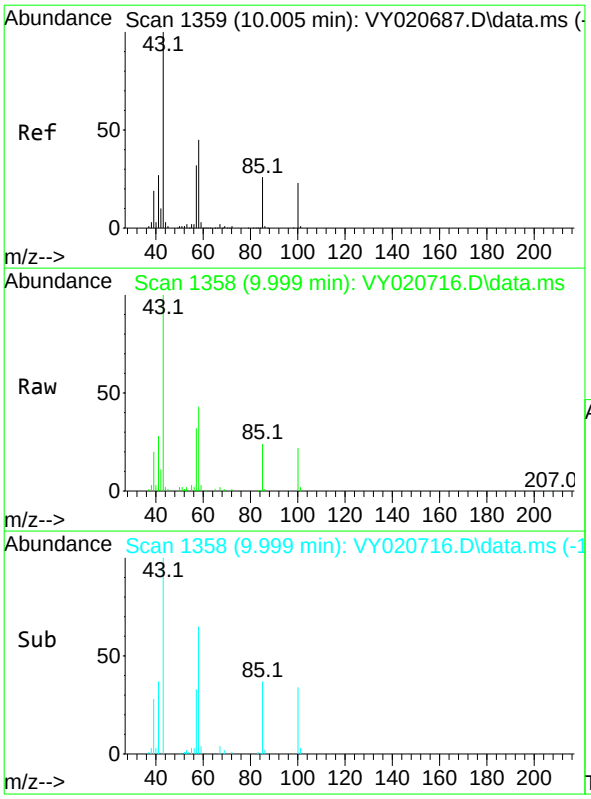




#50
Toluene-d8
Concen: 52.144 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 98 Resp: 187843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 52.2 | 78.4 |

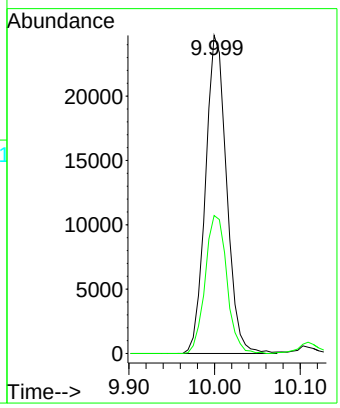





#51
4-Methyl-2-Pentanone
Concen: 104.782 ug/l
RT: 9.999 min Scan# 13
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 42327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.6 | 35.1 | 52.7 |

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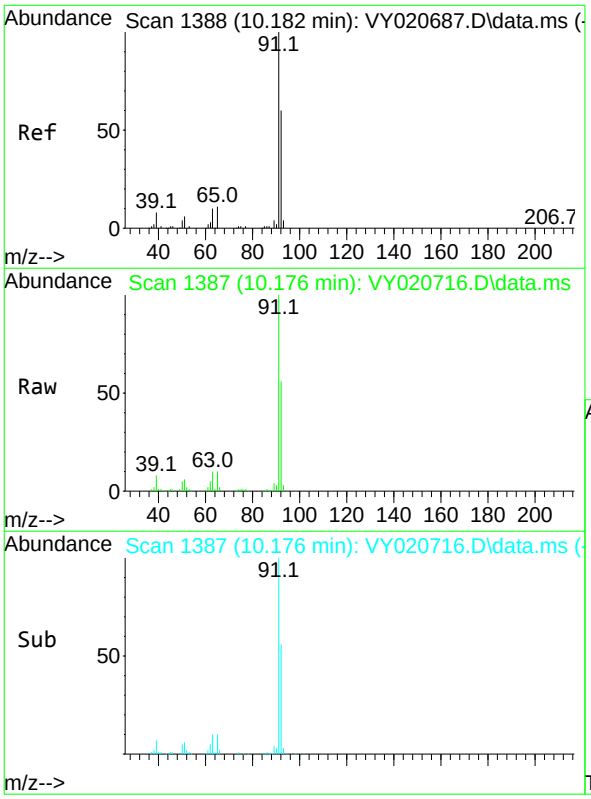
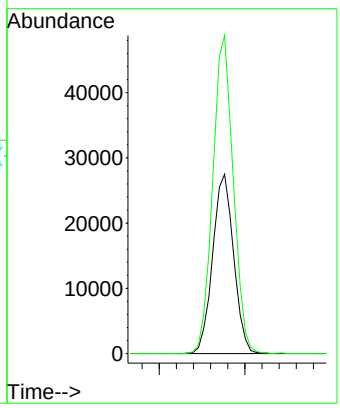
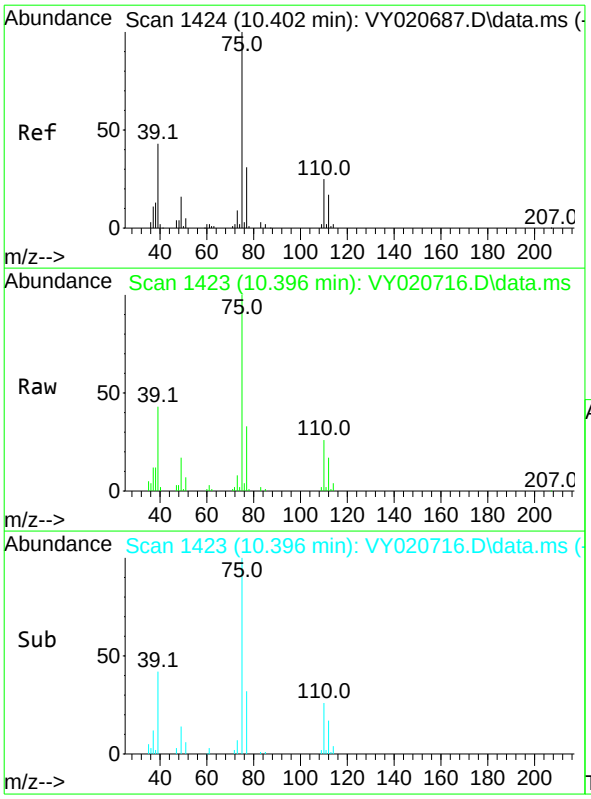



#52
Toluene
Concen: 19.709 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 92 Resp: 46778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.3 | 137.7 | 206.5 |

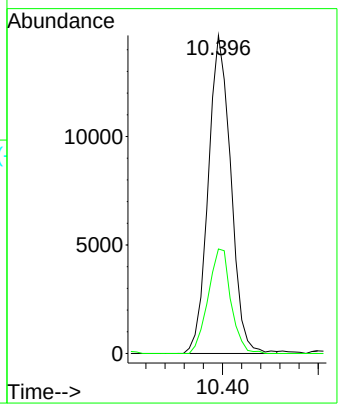





#53
t-1,3-Dichloropropene
Concen: 19.877 ug/l
RT: 10.396 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 75 Resp: 24006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.1 | 37.7 |

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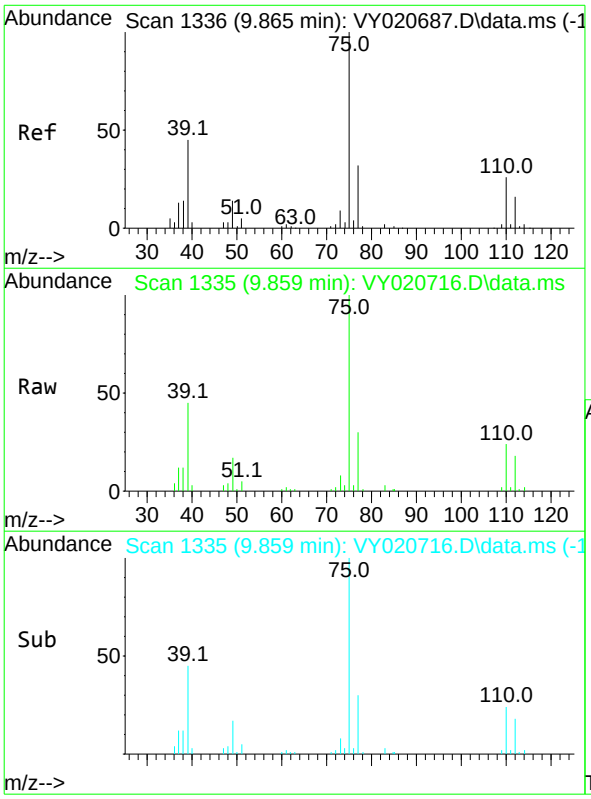
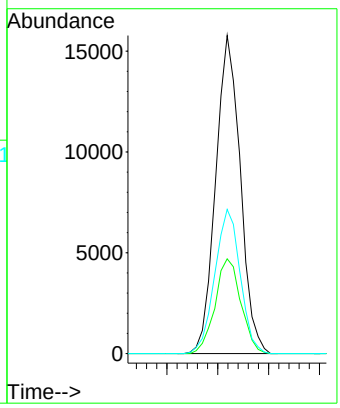
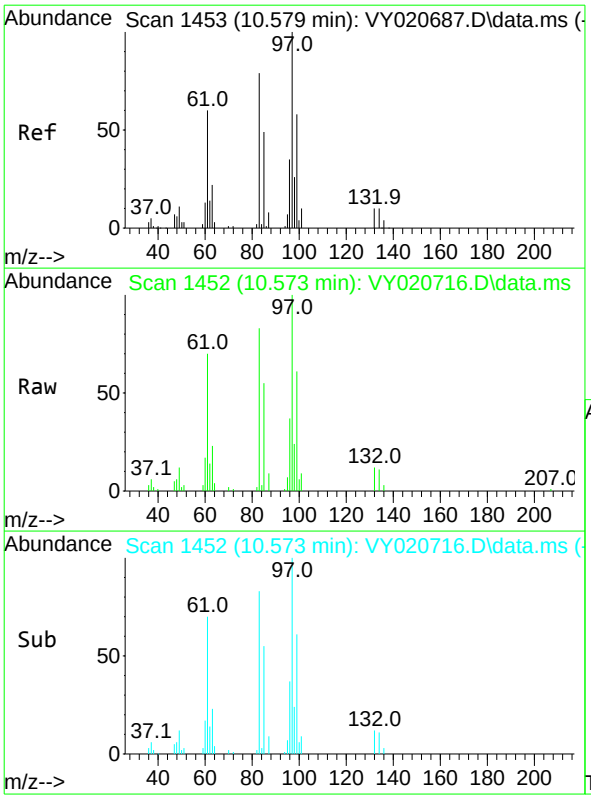



#54
cis-1,3-Dichloropropene
Concen: 20.063 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 75 Resp: 26559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.8 | 25.6 | 38.4 |
| 39 | 45.3 | 36.2 | 54.2 |

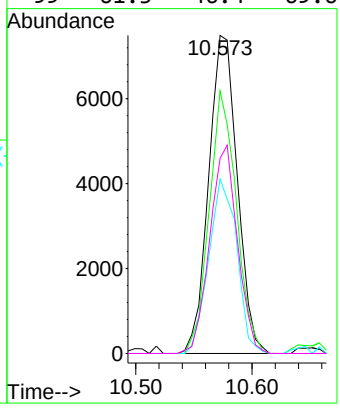





#55
1,1,2-Trichloroethane
Concen: 20.704 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 97 Resp: 12818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.6 | 63.1 | 94.7 |
| 85 | 54.8 | 39.5 | 59.3 |
| 99 | 61.3 | 46.4 | 69.6 |




**Instrument :**
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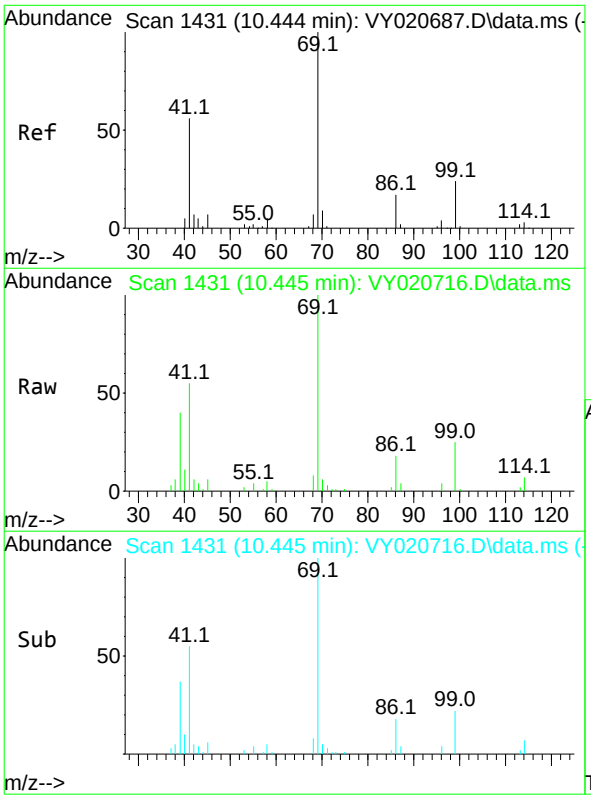
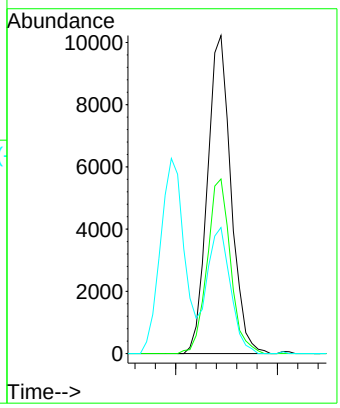
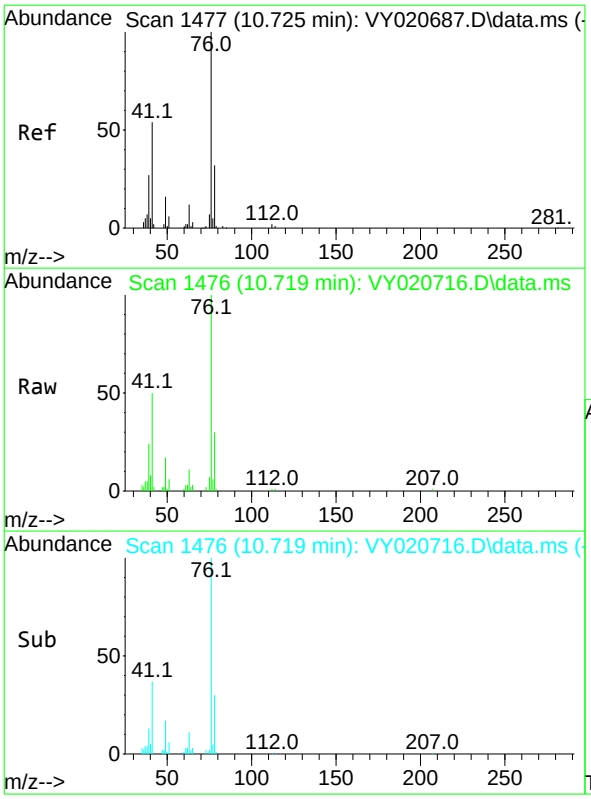



#56
Ethyl methacrylate
Concen: 20.175 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 69 Resp: 16409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 54.4 | 43.8 | 65.6 |
| 39 | 39.2 | 32.0 | 48.0 |

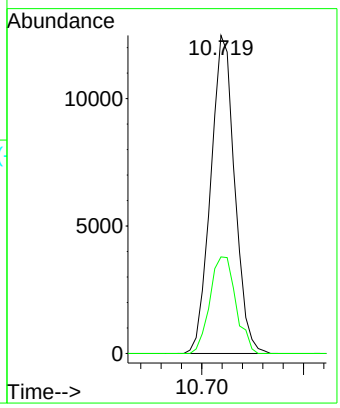





#57
1,3-Dichloropropane
Concen: 20.363 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 76 Resp: 20462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.8 | 25.0 | 37.6 |




**Instrument :**
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VY1226SBSD01

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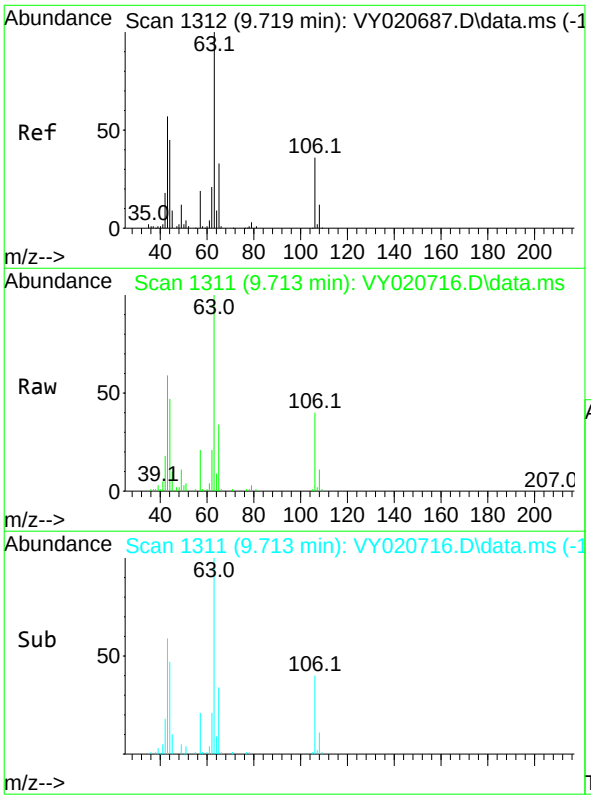
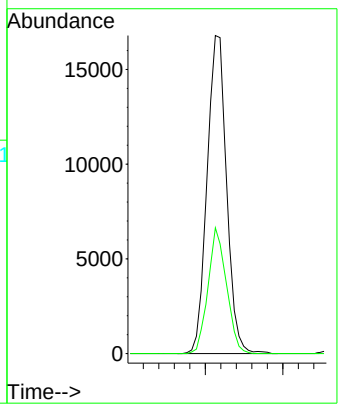
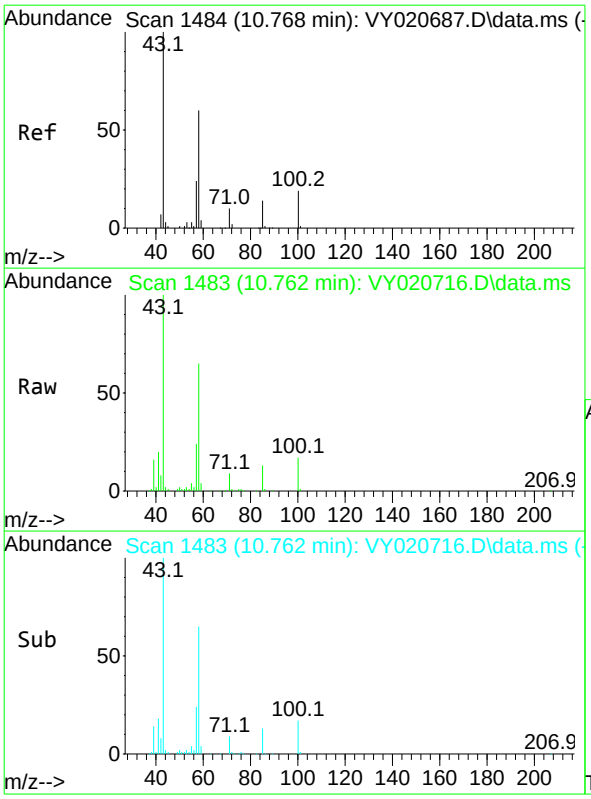



#58
2-Chloroethyl Vinyl ether
Concen: 103.542 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 63 Resp: 29367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 37.3 | 29.1 | 43.7 |

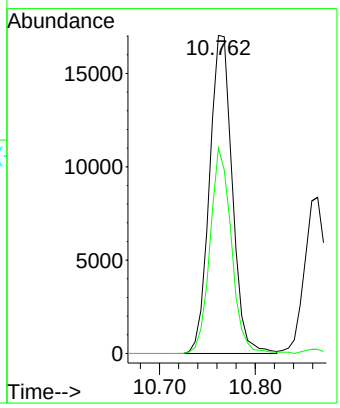





#59
2-Hexanone
Concen: 105.605 ug/l
RT: 10.762 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 28166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.5 | 30.1 | 90.5 |




**Instrument :**
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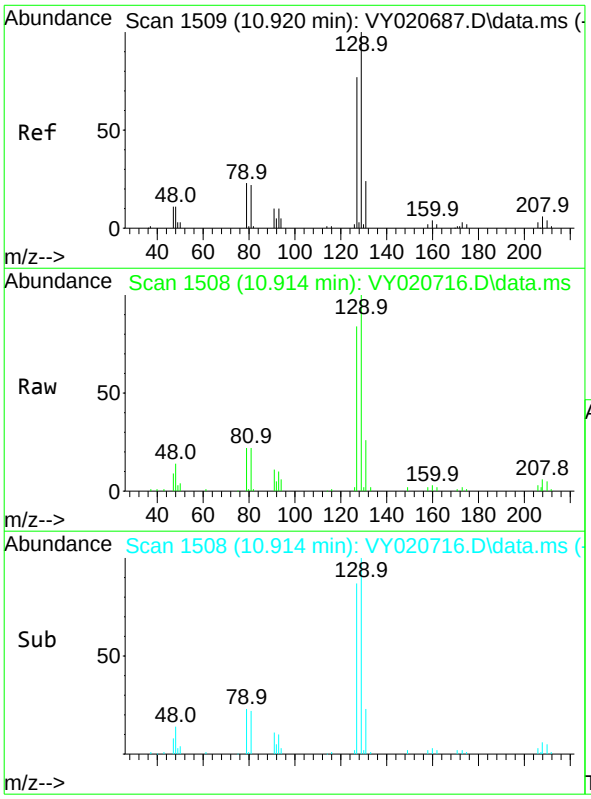
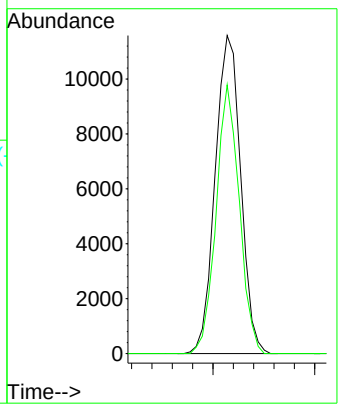
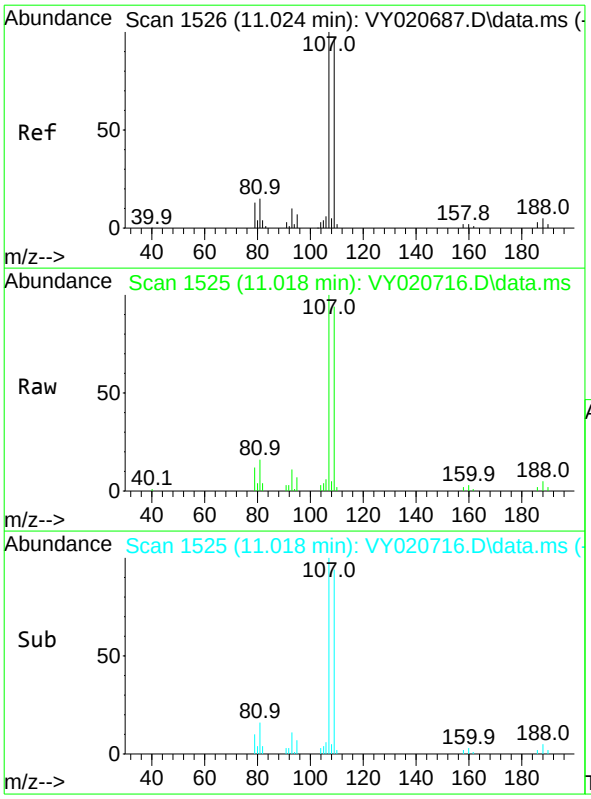



#60
Dibromochloromethane
Concen: 20.149 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:129 Resp: 20157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.7 | 38.5 | 115.5 |

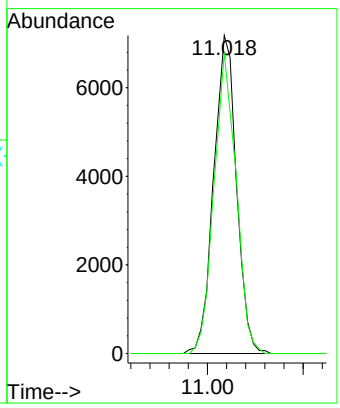





#61
1,2-Dibromoethane
Concen: 20.304 ug/l
RT: 11.018 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:107 Resp: 11828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.6 | 75.5 | 113.3 |

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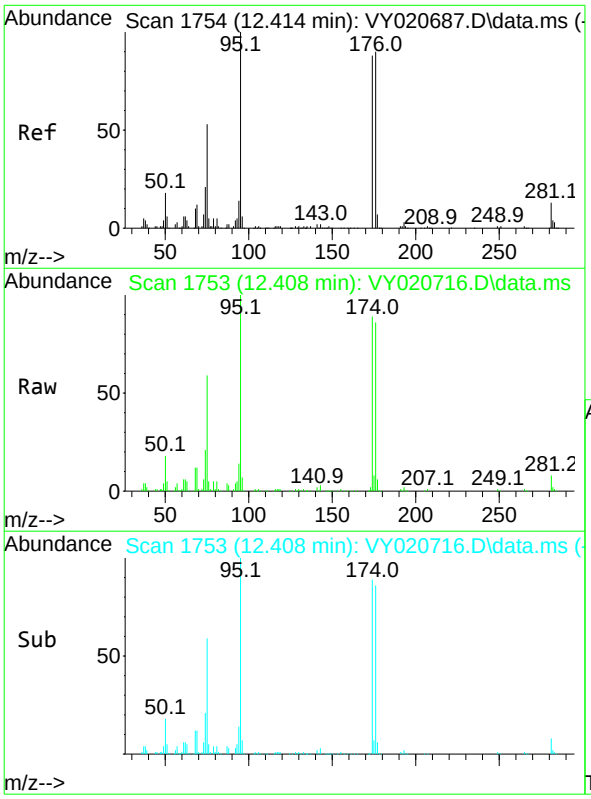
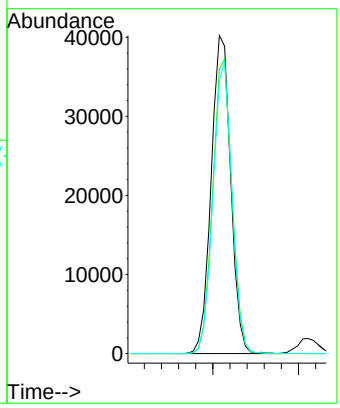
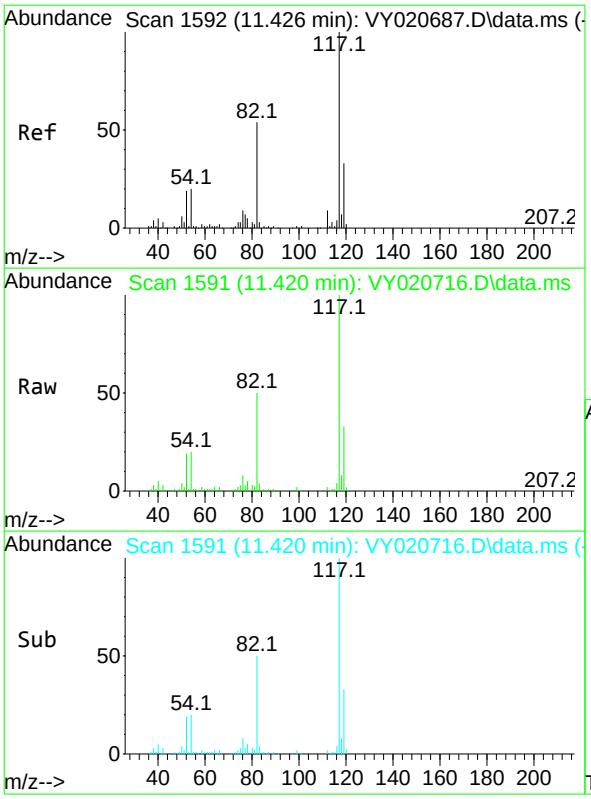



#62
4-Bromofluorobenzene
Concen: 52.931 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 95 Resp: 63630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.2 | 0.0 | 179.2 |
| 176 | 89.1 | 0.0 | 179.8 |

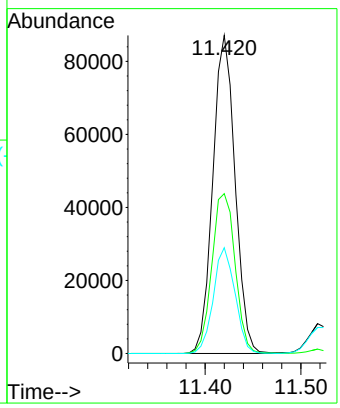





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:117 Resp: 140702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.3 | 43.4 | 65.2 |
| 119 | 33.3 | 26.6 | 39.8 |

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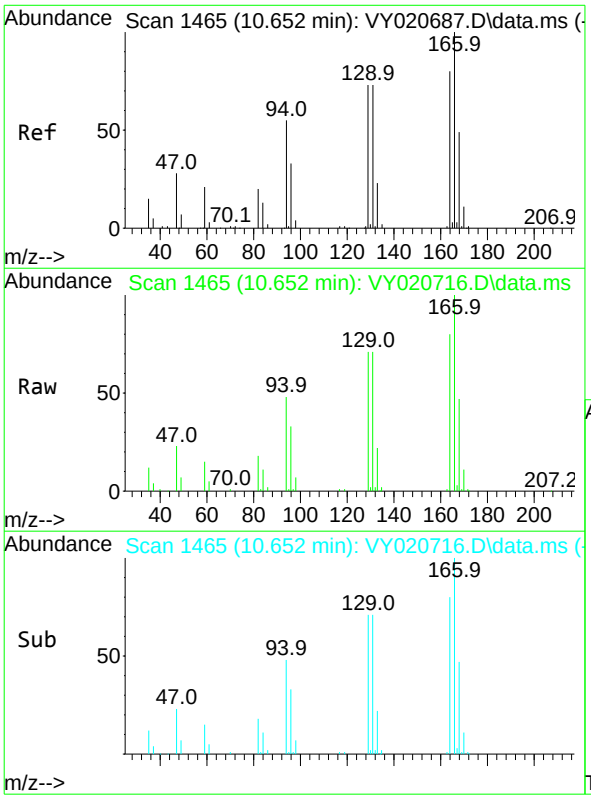
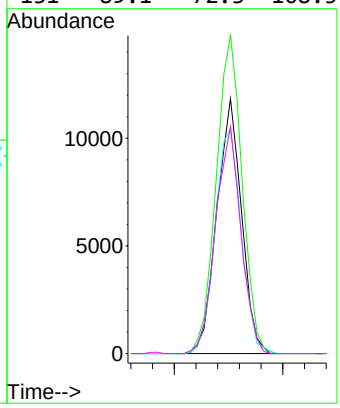
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

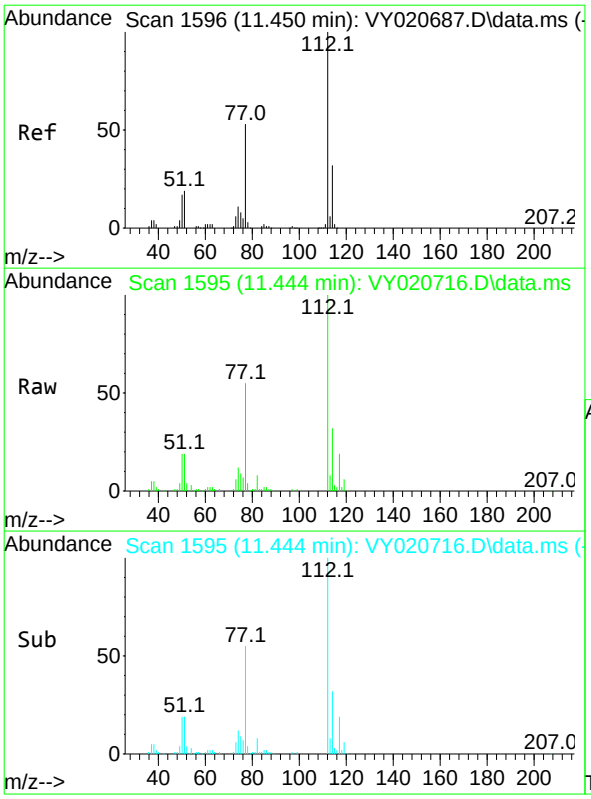



#64
Tetrachloroethene
Concen: 19.410 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:164 Resp: 18659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.8 | 99.6 | 149.4 |
| 129 | 88.2 | 73.0 | 109.4 |
| 131 | 89.1 | 72.3 | 108.5 |

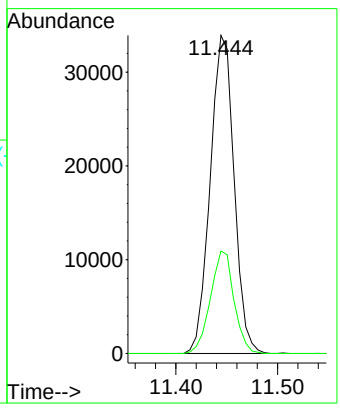





#65
Chlorobenzene
Concen: 20.095 ug/l
RT: 11.444 min Scan# 15
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:112 Resp: 55362

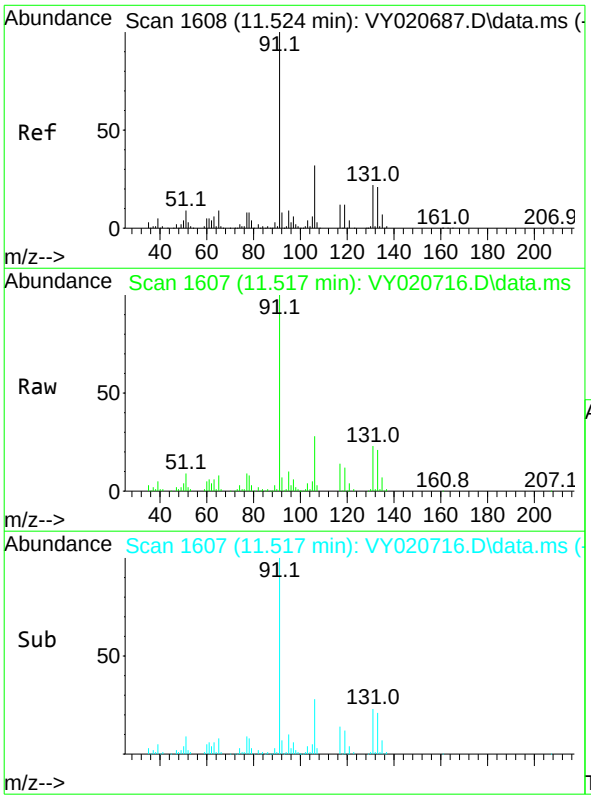
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 25.4 | 38.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

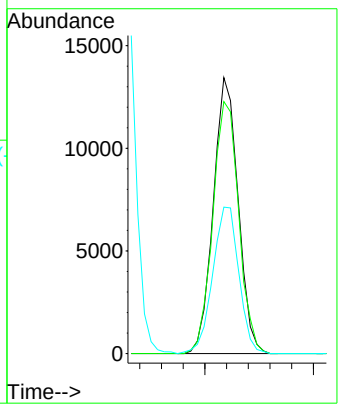
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

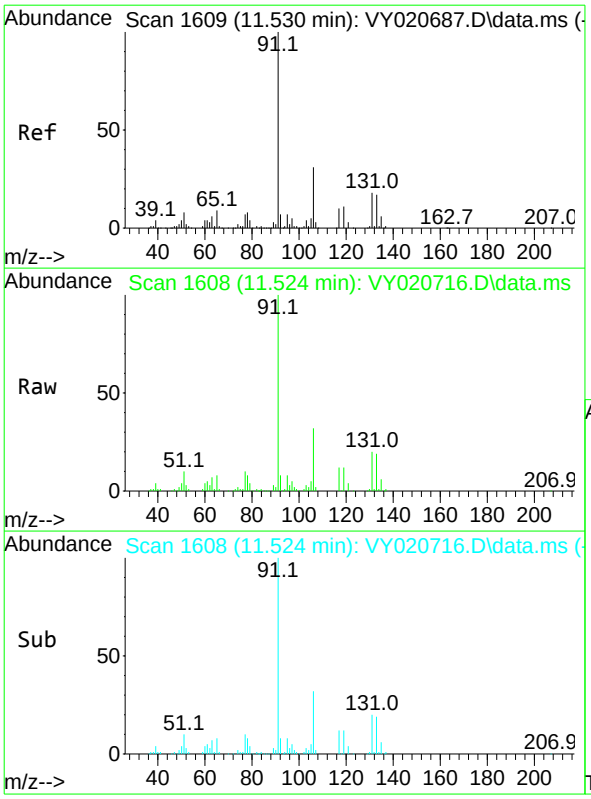



#66
1,1,1,2-Tetrachloroethane
Concen: 19.985 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.007 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:131 Resp: 21331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 48.6 | 145.9 |
| 119 | 56.1 | 28.4 | 85.3 |

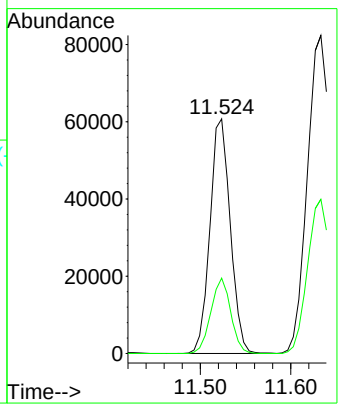





#67
Ethyl Benzene
Concen: 19.693 ug/l
RT: 11.524 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 91 Resp: 94825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.1 | 24.5 | 36.7 |




**Instrument :**
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VY1226SBSD01

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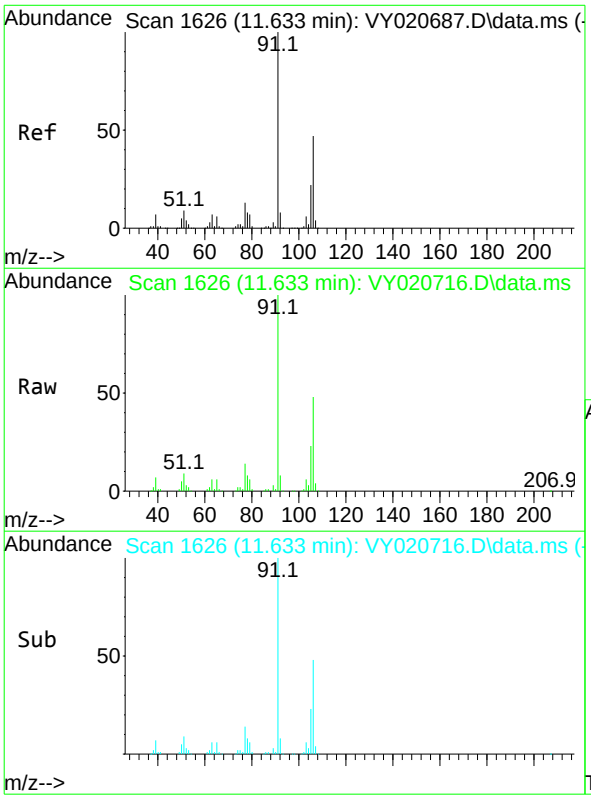
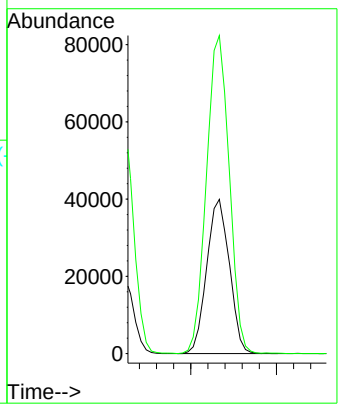
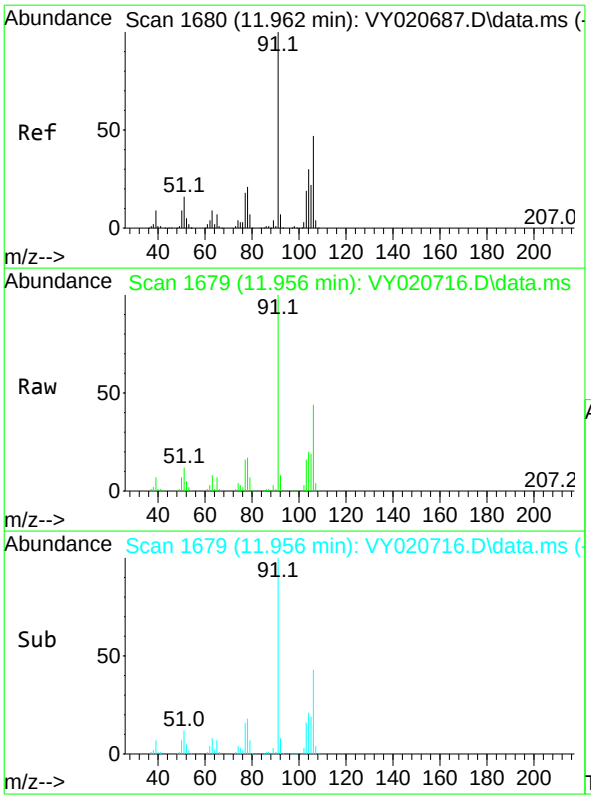



#68
m/p-Xylenes
Concen: 40.019 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:106 Resp: 73507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.3 | 166.6 | 250.0 |

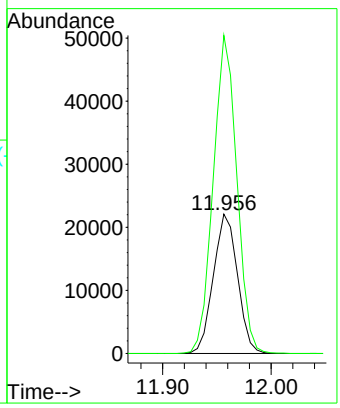





#69
o-Xylene
Concen: 19.455 ug/l
RT: 11.956 min Scan# 16
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:106 Resp: 34142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 223.0 | 108.6 | 325.8 |




**Instrument :**
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**ClientSampleId :**
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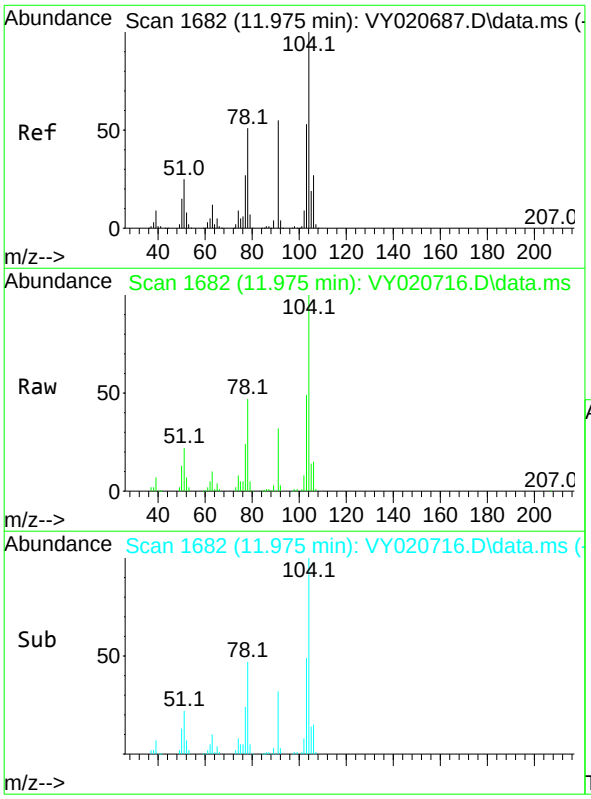
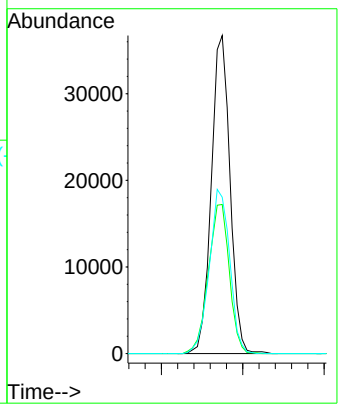
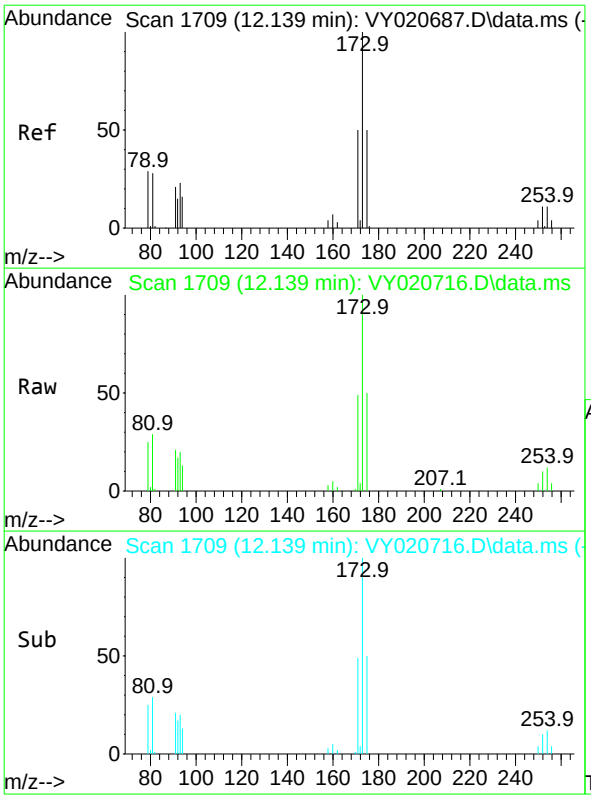



#70
Styrene
Concen: 19.918 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:104 Resp: 58678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.5 | 43.0 | 64.4 |
| 103 | 56.3 | 44.4 | 66.6 |

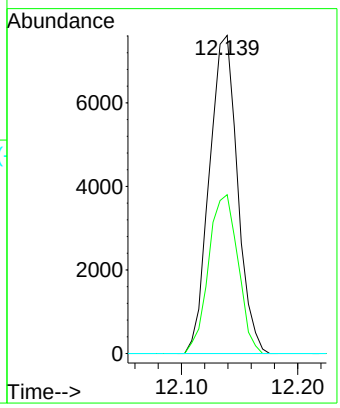





#71
Bromoform
Concen: 20.885 ug/l
RT: 12.139 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:173 Resp: 12816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 52.1 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |




**Instrument :**
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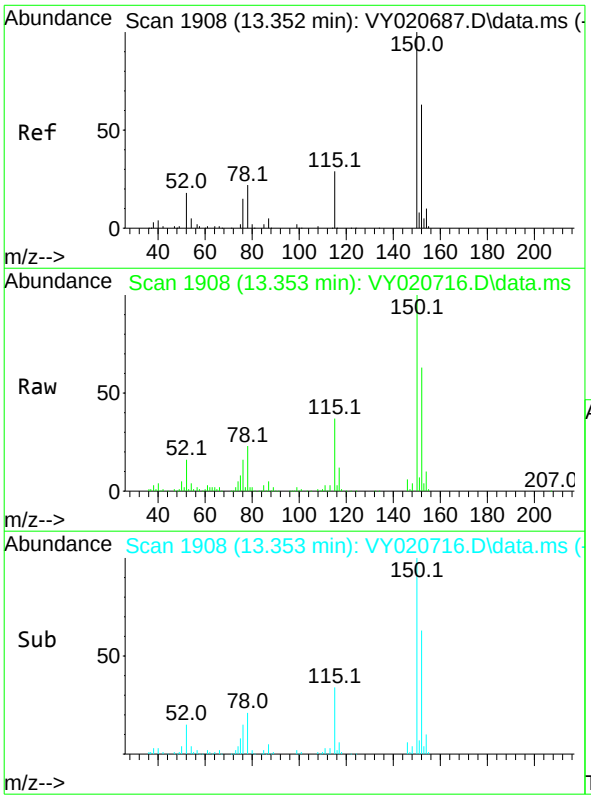
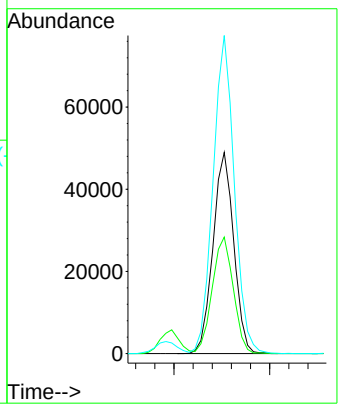
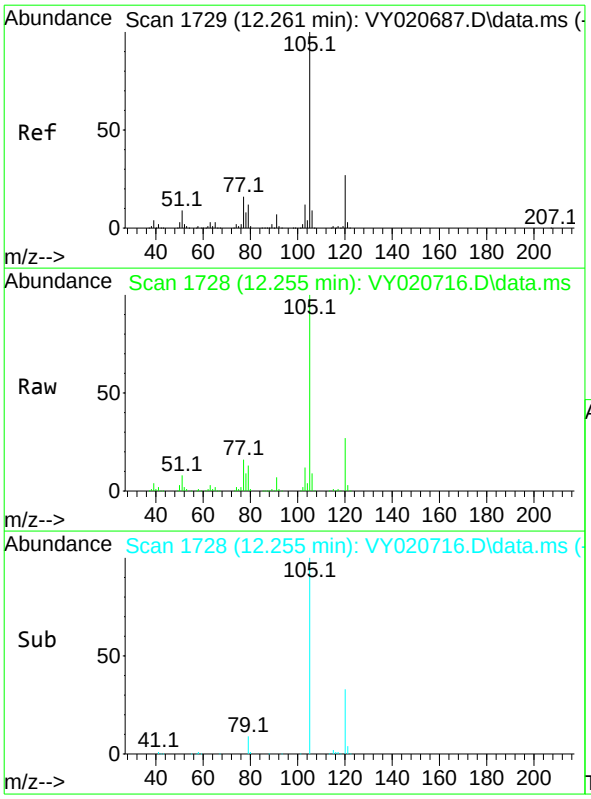



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:152 Resp: 73666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.8 | 30.3 | 90.9 |
| 150 | 162.1 | 0.0 | 349.0 |

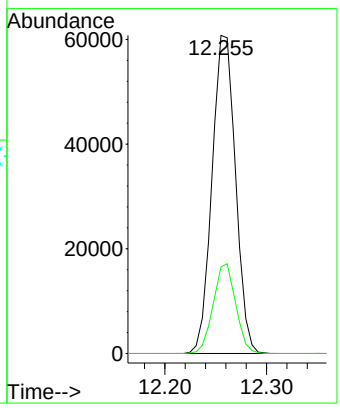





#73
Isopropylbenzene
Concen: 19.094 ug/l
RT: 12.255 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:105 Resp: 97450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.3 | 39.9 |

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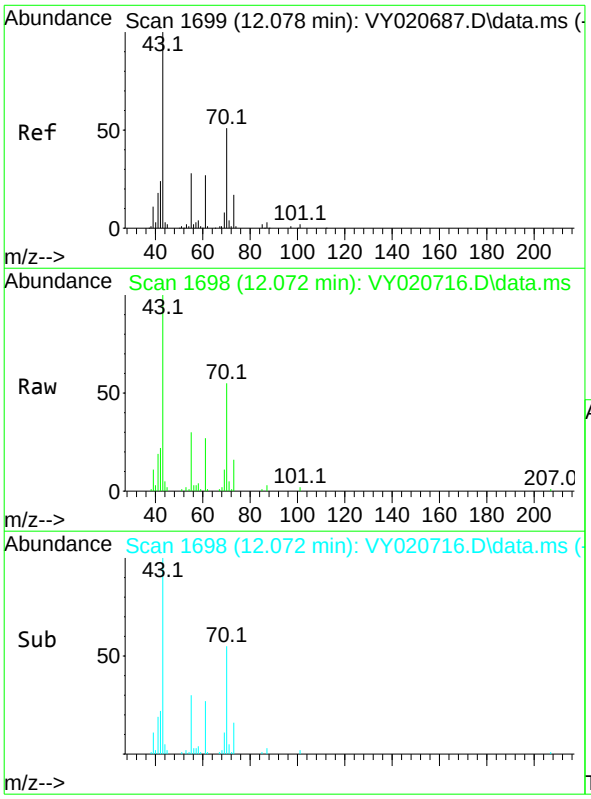
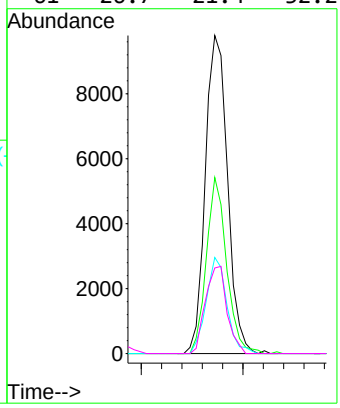
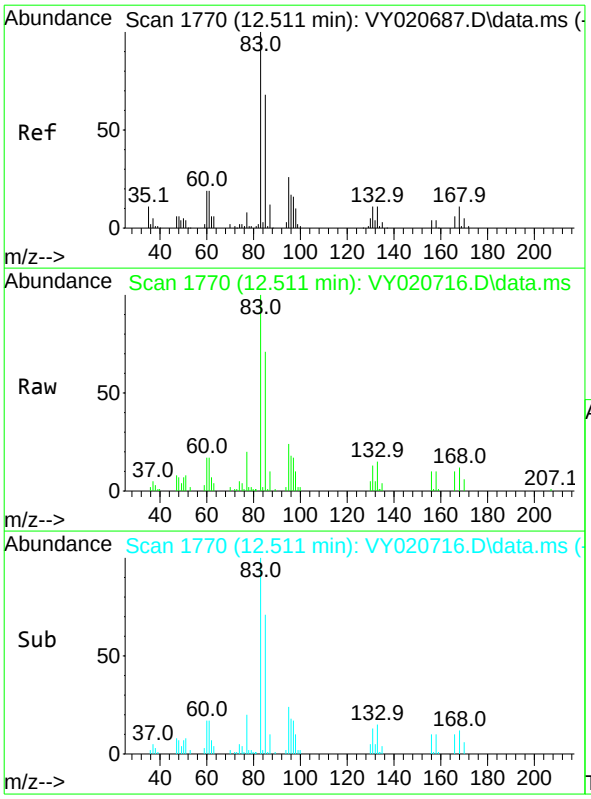



#74
N-amyl acetate
Concen: 20.431 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 14818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.5 | 39.7 | 59.5 |
| 55 | 28.3 | 21.5 | 32.3 |
| 61 | 26.7 | 21.4 | 32.2 |

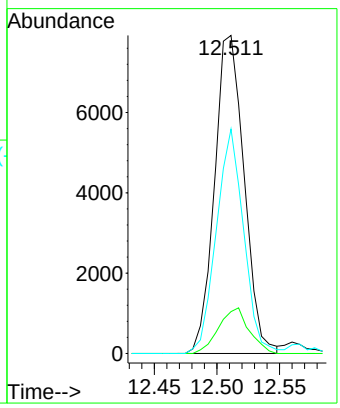





#75
1,1,2,2-Tetrachloroethane
Concen: 19.900 ug/l
RT: 12.511 min Scan# 17
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 83 Resp: 13020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.7 | 6.9 | 20.7 |
| 85 | 65.4 | 32.5 | 97.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

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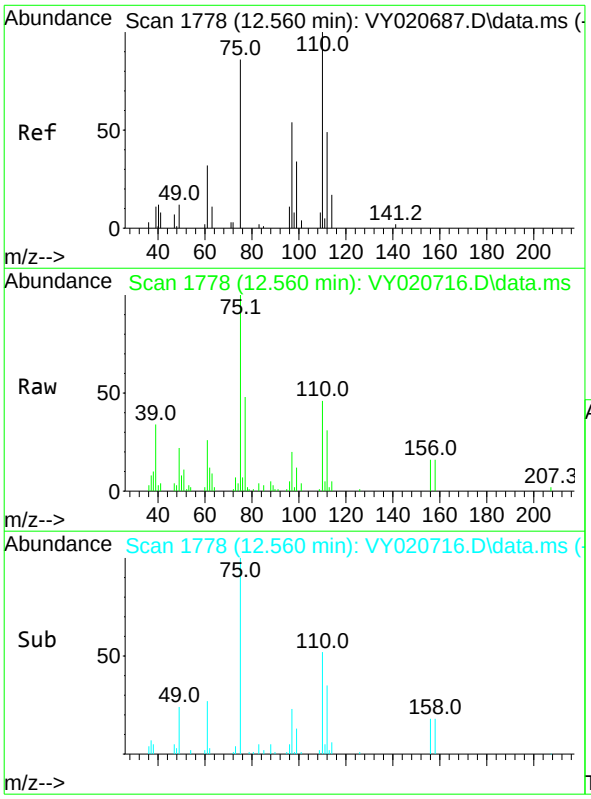
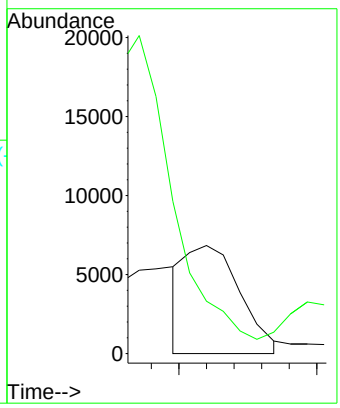
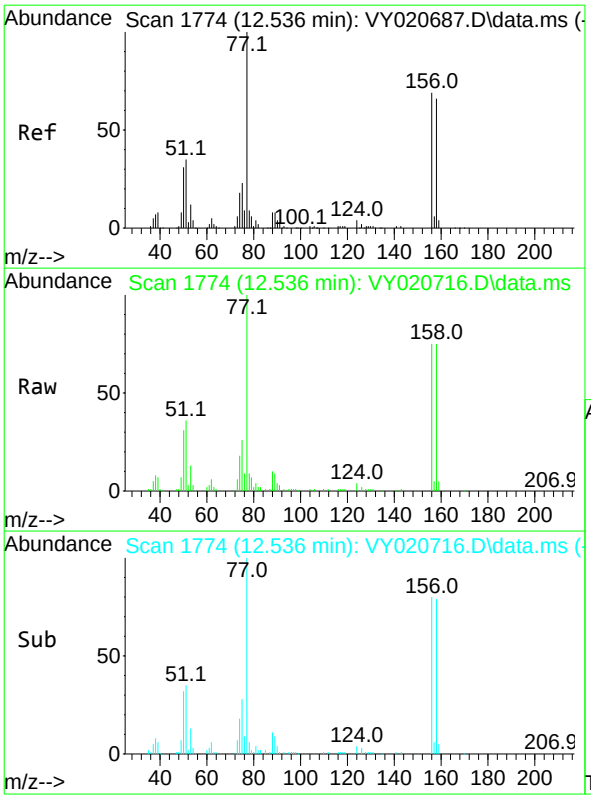



#76
1,2,3-Trichloropropane
Concen: 20.291 ug/l m
RT: 12.560 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 75 Resp: 9507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |

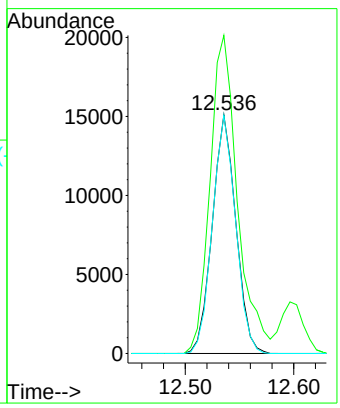





#77
Bromobenzene
Concen: 19.396 ug/l
RT: 12.536 min Scan# 17
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:156 Resp: 22787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 155.4 | 78.3 | 235.0 |
| 158 | 98.3 | 48.3 | 144.9 |




**Instrument :**
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**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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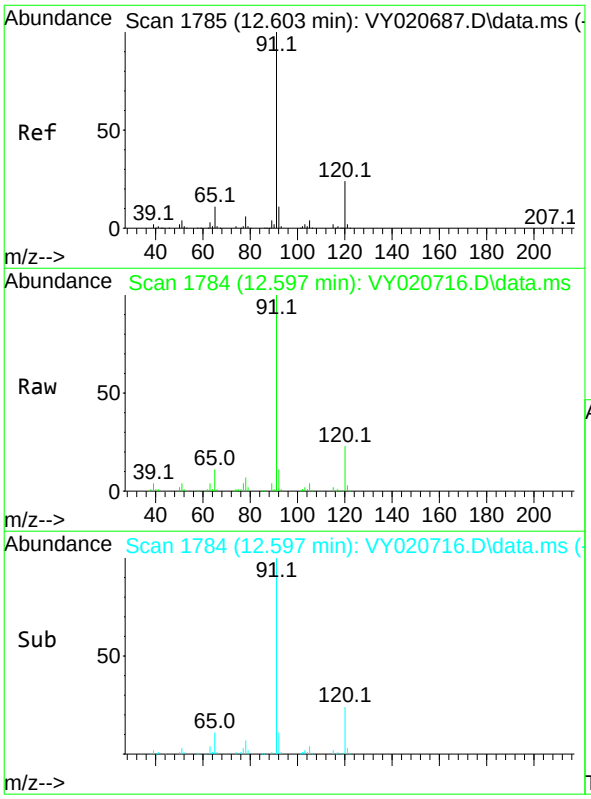
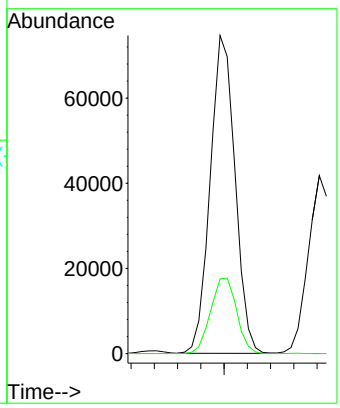
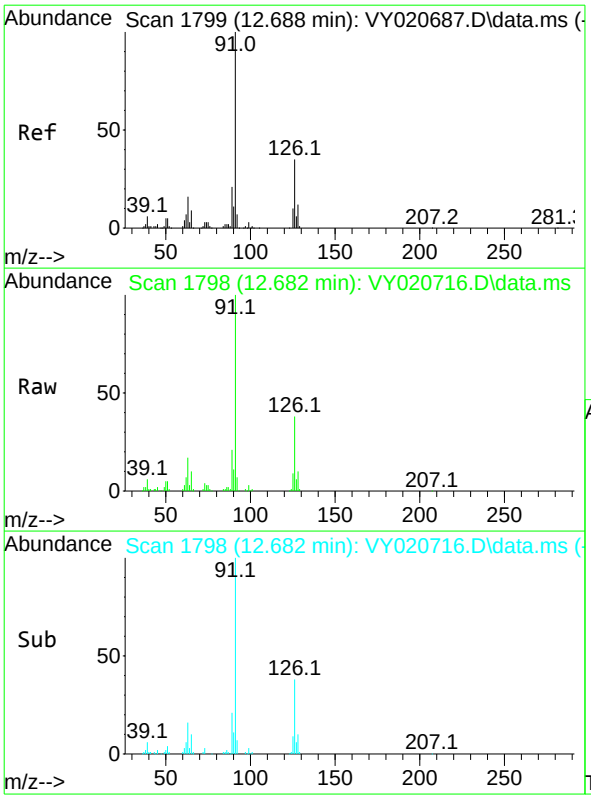



#78
n-propylbenzene
Concen: 19.355 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 91 Resp: 110719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.9 | 12.3 | 36.8 |

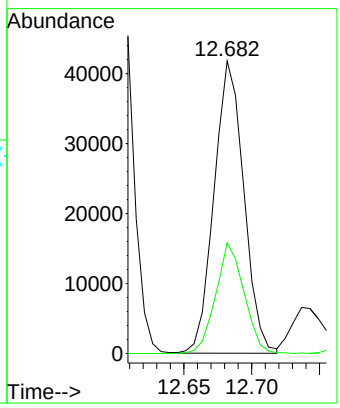





#79
2-Chlorotoluene
Concen: 19.509 ug/l
RT: 12.682 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 91 Resp: 63619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.0 | 17.8 | 53.3 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

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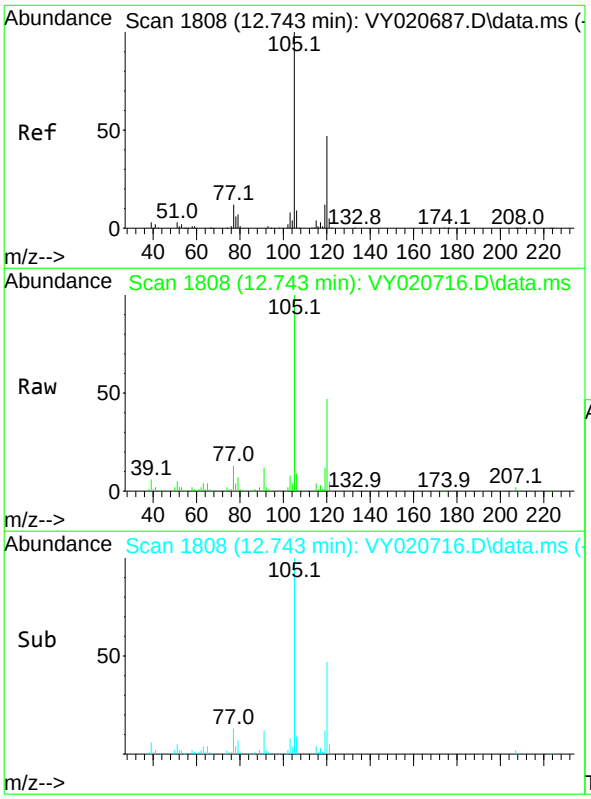
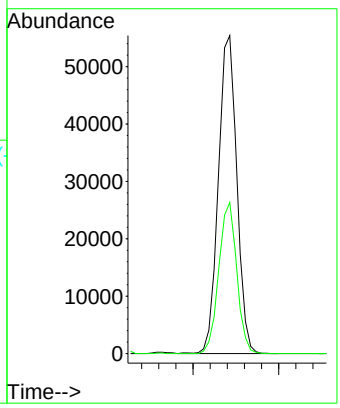
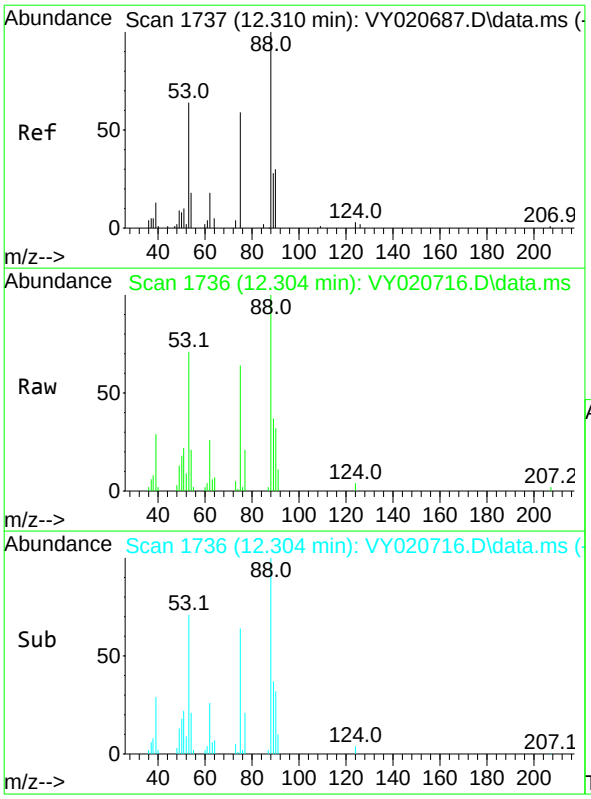



#80
1,3,5-Trimethylbenzene
Concen: 19.509 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:105 Resp: 82956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 23.9 | 71.7 |

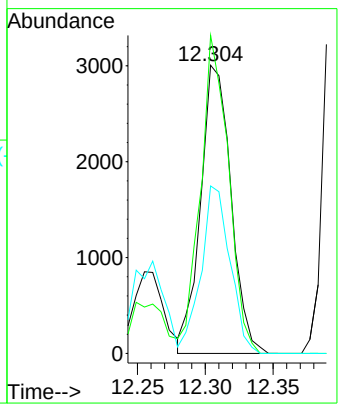





#81
trans-1,4-Dichloro-2-butene
Concen: 19.790 ug/l
RT: 12.304 min Scan# 17
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 75 Resp: 4691

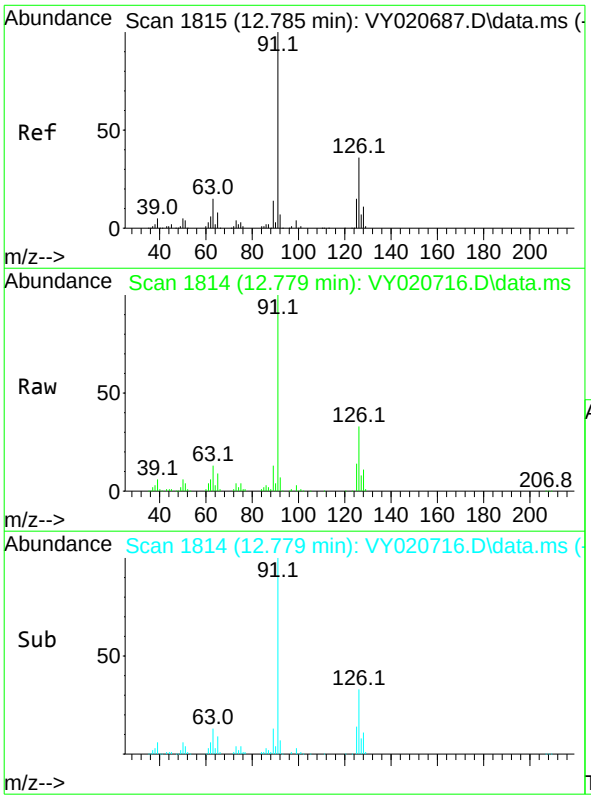
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 101.6 | 83.1 | 124.7 |
| 89 | 55.3 | 40.6 | 61.0 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

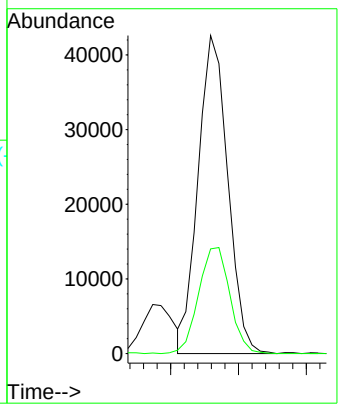
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

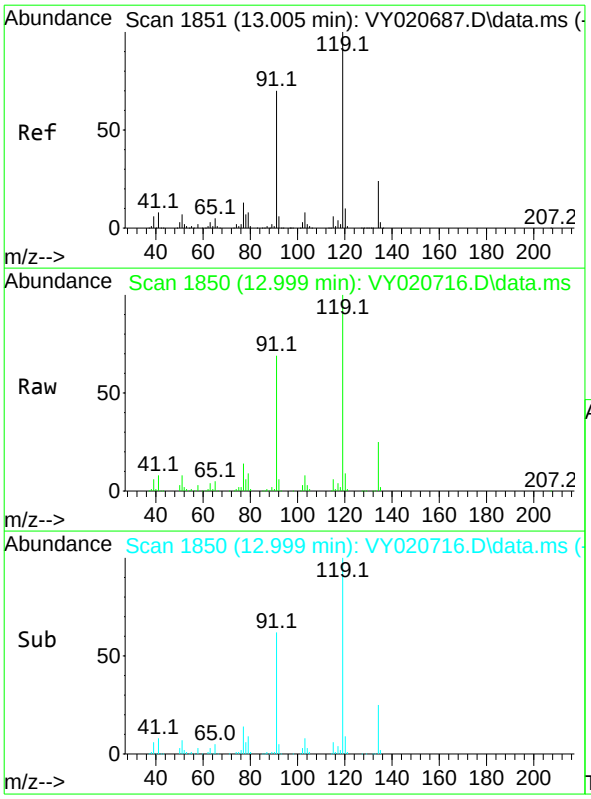



#82
4-Chlorotoluene
Concen: 19.219 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 91 Resp: 64772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.2 | 17.8 | 53.5 |

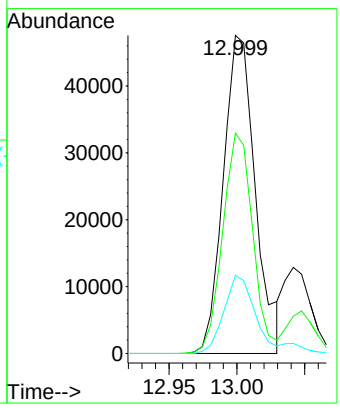





#83
tert-Butylbenzene
Concen: 19.685 ug/l
RT: 12.999 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:119 Resp: 78168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.0 | 33.6 | 100.8 |
| 134 | 25.7 | 13.4 | 40.2 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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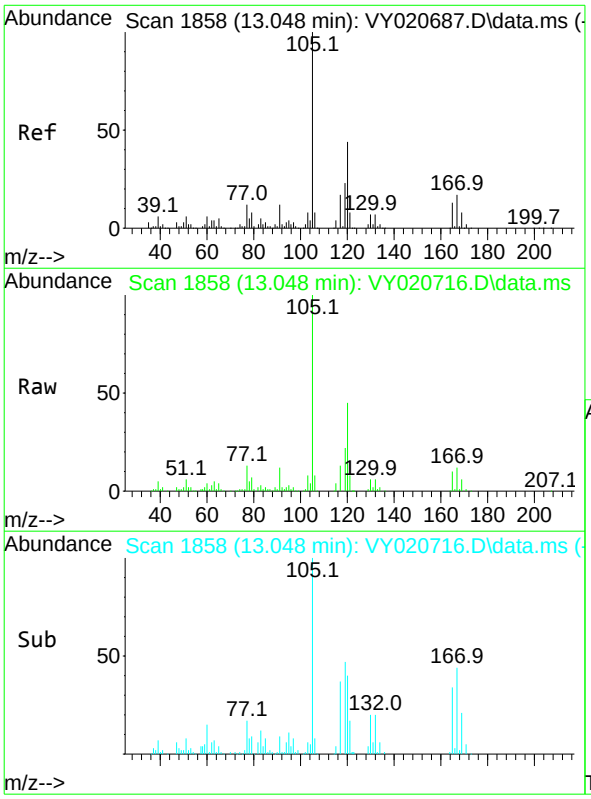
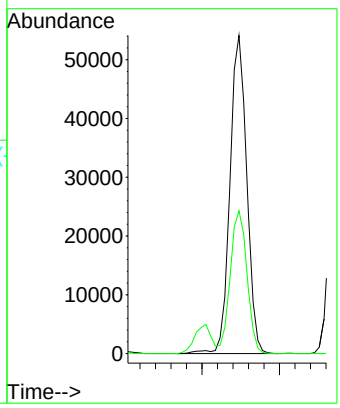
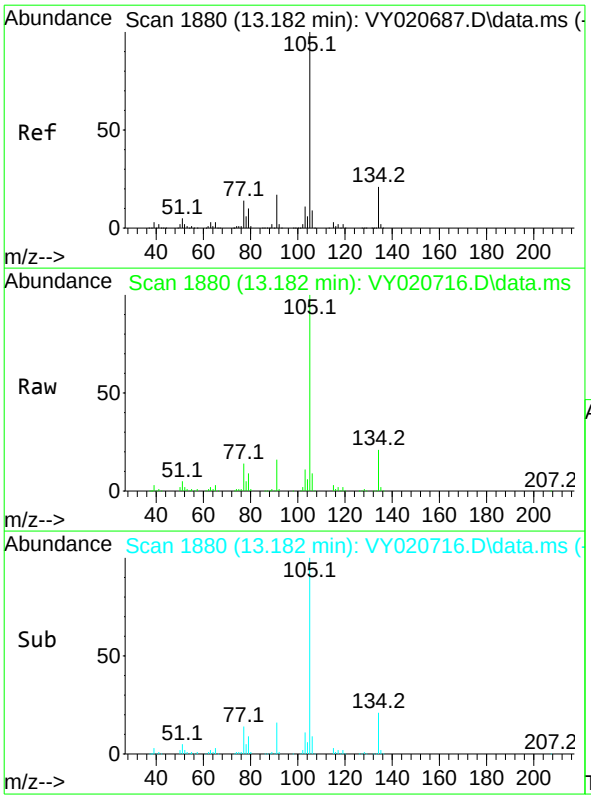



#84
1,2,4-Trimethylbenzene
Concen: 19.695 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:105 Resp: 81496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.9 | 21.8 | 65.3 |

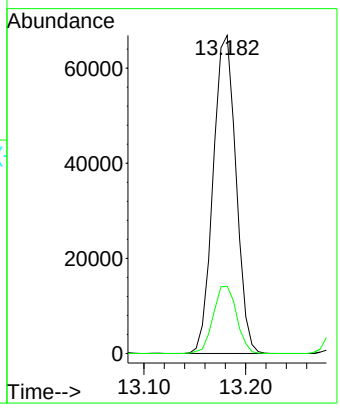





#85
sec-Butylbenzene
Concen: 19.495 ug/l
RT: 13.182 min Scan# 18
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:105 Resp: 104334

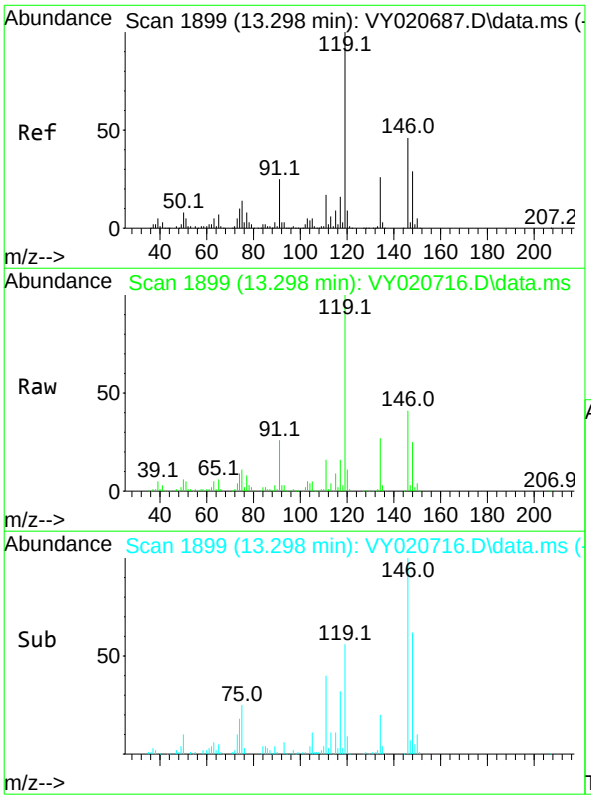
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.7 | 10.7 | 32.1 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

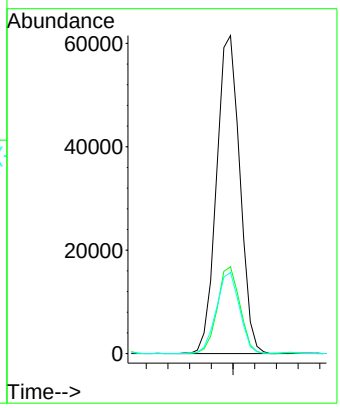
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

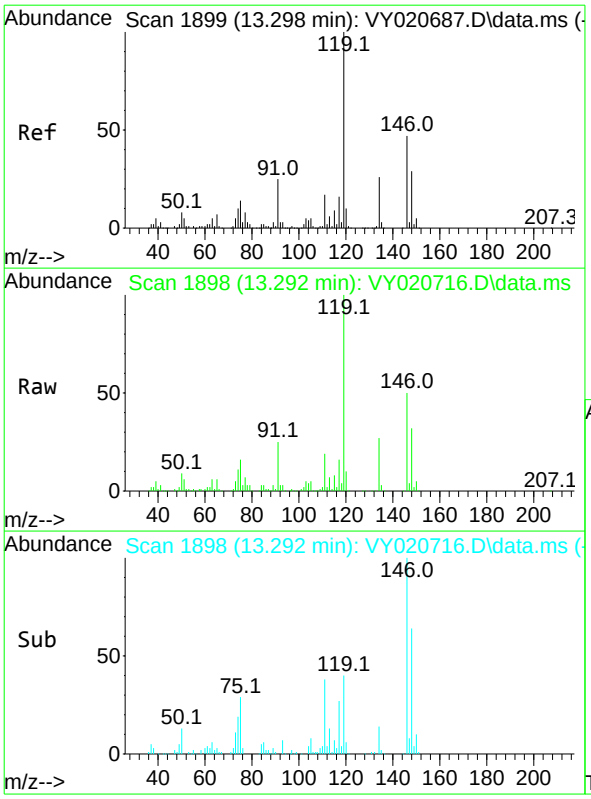



#86
p-Isopropyltoluene
Concen: 19.238 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:119 Resp: 91757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.4 | 40.2 |
| 91 | 25.4 | 12.9 | 38.6 |

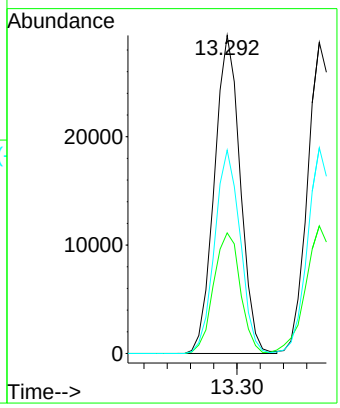





#87
1,3-Dichlorobenzene
Concen: 19.781 ug/l
RT: 13.292 min Scan# 18
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:146 Resp: 45422

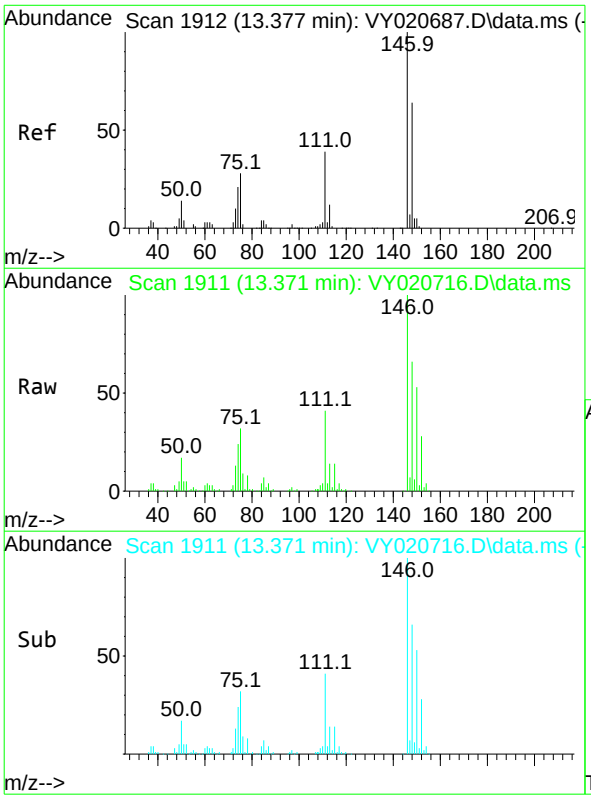
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.3 | 57.8 |
| 148 | 63.1 | 31.1 | 93.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

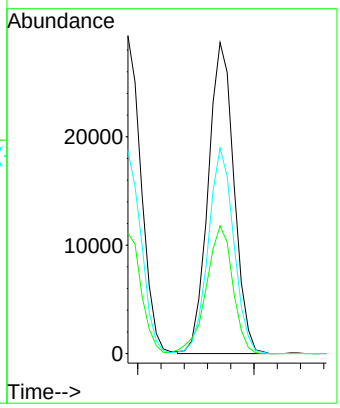
Reviewed By :Mahesh Dadoda 12/27/2024
Supervised By :Semsettin Yesilyurt 12/27/2024

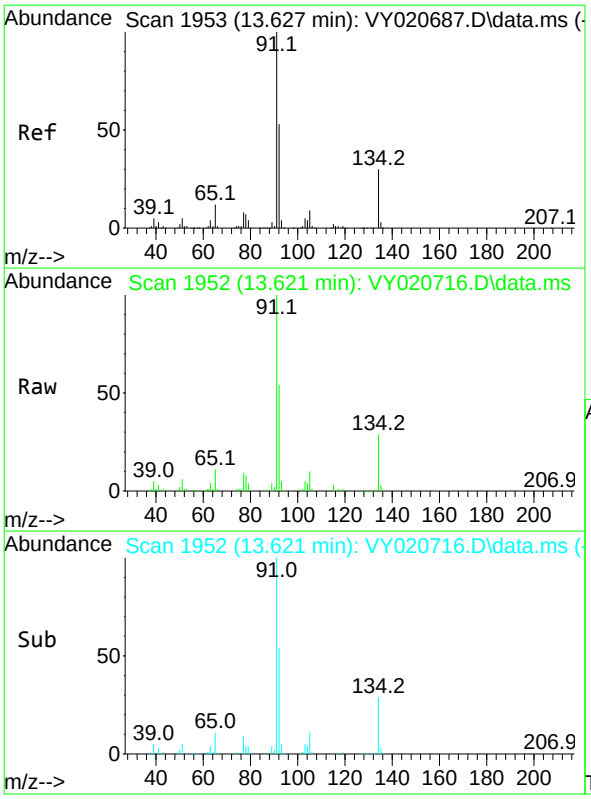



#88
1,4-Dichlorobenzene
Concen: 19.360 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:146 Resp: 44221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.1 | 19.7 | 59.0 |
| 148 | 65.5 | 32.8 | 98.3 |

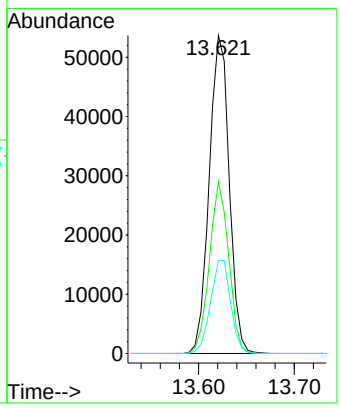





#89
n-Butylbenzene
Concen: 19.544 ug/l
RT: 13.621 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 91 Resp: 77813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.3 | 26.1 | 78.2 |
| 134 | 29.5 | 14.8 | 44.4 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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Reviewed By :Mahesh Dadoda 12/27/2024
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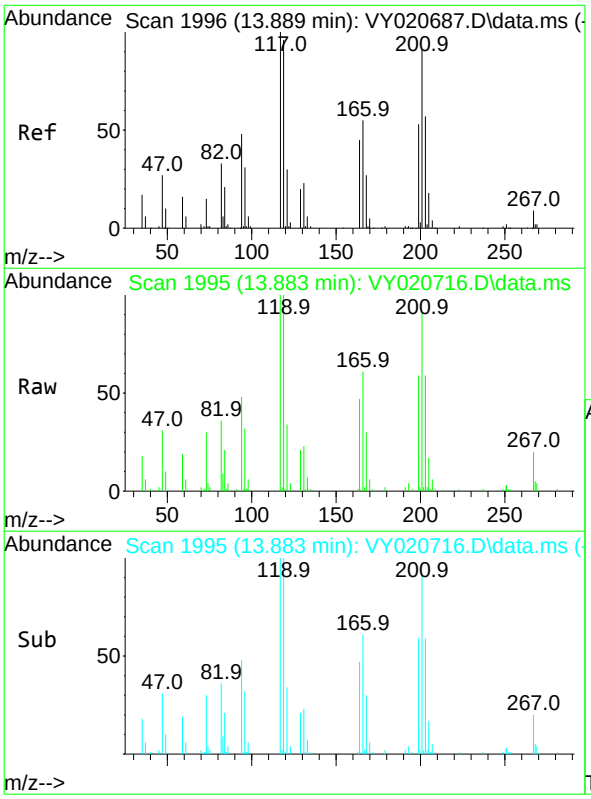
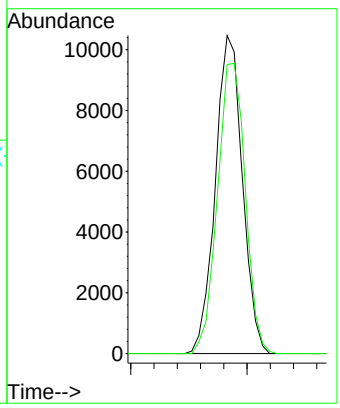
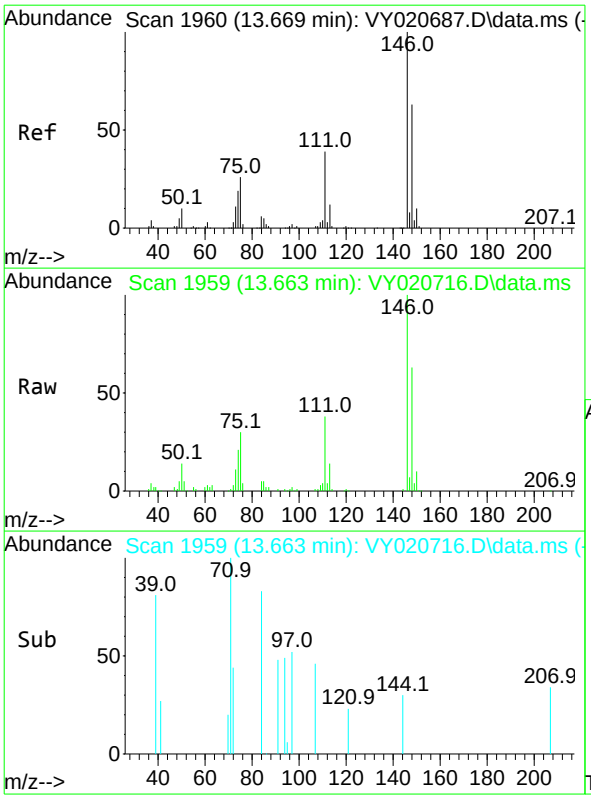



#90
Hexachloroethane
Concen: 18.644 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:117 Resp: 16909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 93.8 | 44.9 | 134.7 |

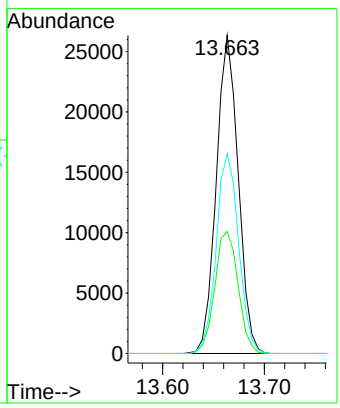





#91
1,2-Dichlorobenzene
Concen: 20.046 ug/l
RT: 13.663 min Scan# 19
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:146 Resp: 39466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.3 | 60.8 |
| 148 | 64.3 | 31.9 | 95.5 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 12/27/2024
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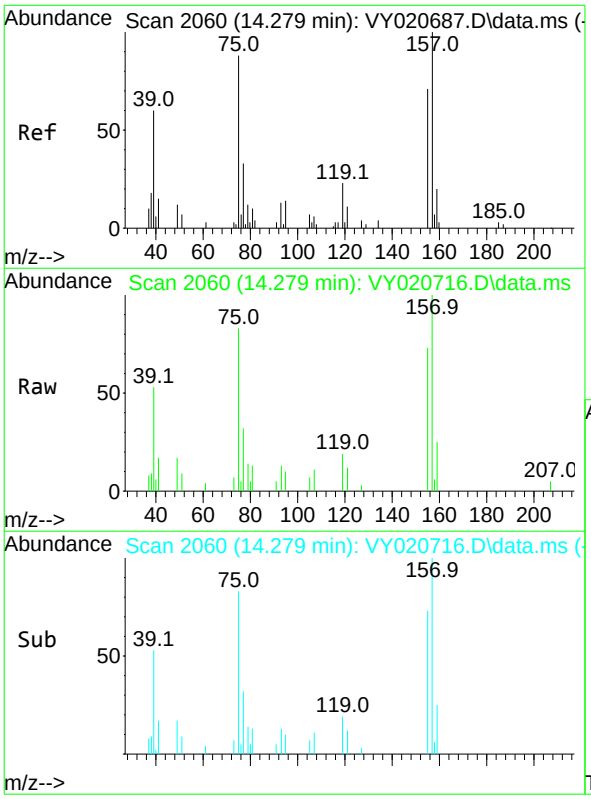
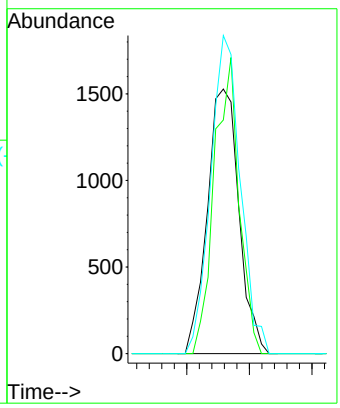
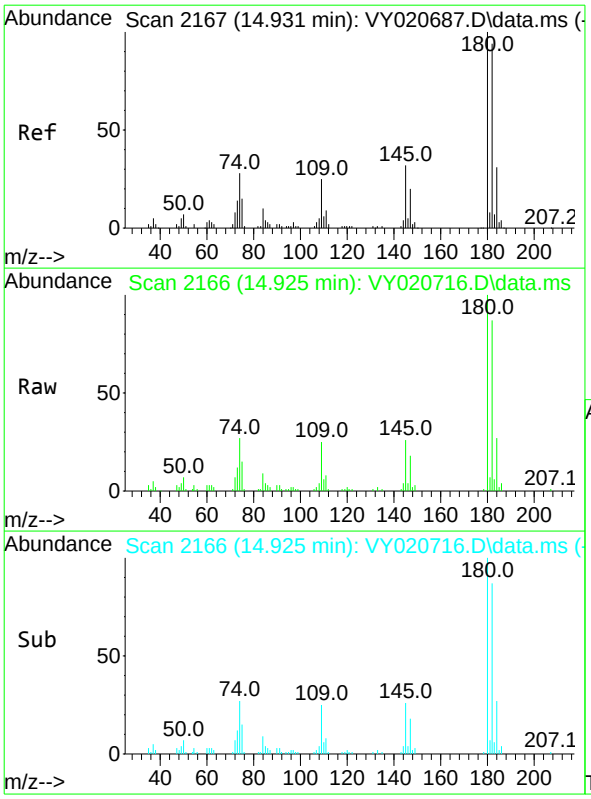



#92
1,2-Dibromo-3-Chloropropane
Concen: 21.198 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 75 Resp: 2690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.6 | 43.4 | 130.2 |
| 157 | 112.9 | 58.6 | 175.7 |






#93
1,2,4-Trichlorobenzene
Concen: 19.888 ug/l
RT: 14.925 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:180 Resp: 24888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.5 | 47.9 | 143.7 |
| 145 | 30.1 | 15.6 | 46.8 |

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
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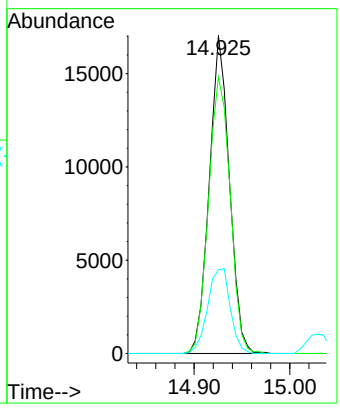
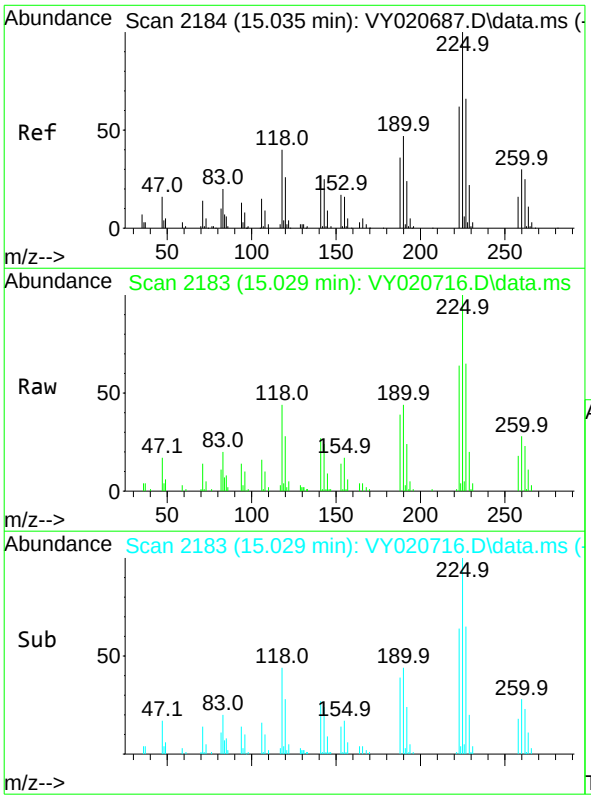
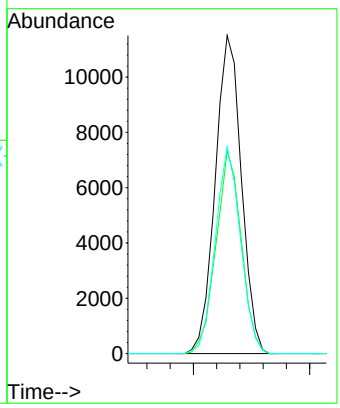


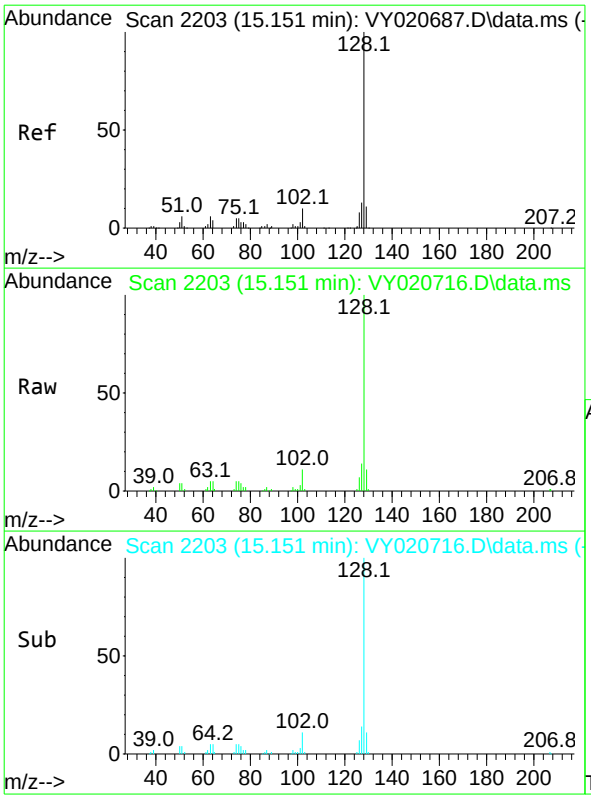




#94
Hexachlorobutadiene
Concen: 19.715 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:225 Resp: 17981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.4 | 31.3 | 93.8 |
| 227 | 62.6 | 32.1 | 96.5 |

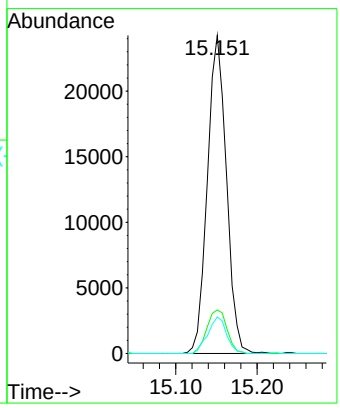





#95
Naphthalene
Concen: 19.639 ug/l
RT: 15.151 min Scan# 22
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:128 Resp: 39363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 14.5 | 10.7 | 16.1 |
| 129 | 11.3 | 8.6 | 12.8 |




**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

**Manual Integrations**
**APPROVED**

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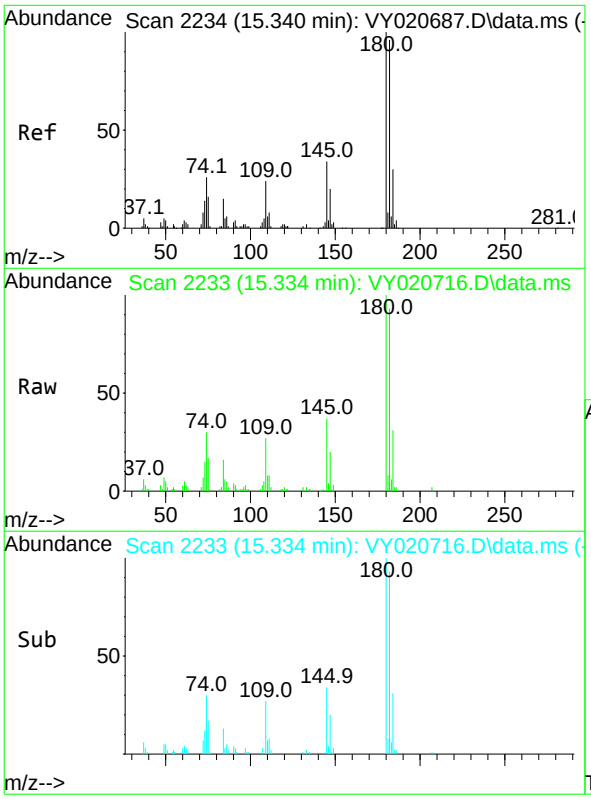
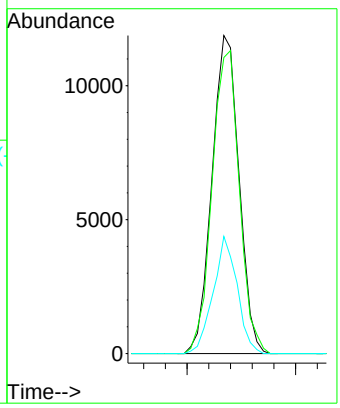



#96
1,2,3-Trichlorobenzene
Concen: 19.681 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:180 Resp: 20507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.1 | 47.4 | 142.2 |
| 145 | 32.8 | 16.7 | 50.1 |



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# Manual Integration Report

| Sequence: | VY121724 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC010 | VY020613.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:29 AM | SAM | 12/18/2024 8:50:42 AM | Peak Integrated by Software |
| VSTDICC020 | VY020614.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:31 AM | SAM | 12/18/2024 8:50:43 AM | Peak Integrated by Software |
| VSTDICCC050 | VY020615.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:34 AM | SAM | 12/18/2024 8:50:47 AM | Peak Integrated by Software |
| VSTDICC100 | VY020616.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:37 AM | SAM | 12/18/2024 8:50:48 AM | Peak Integrated by Software |
| VSTDICC150 | VY020617.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:38 AM | SAM | 12/18/2024 8:50:50 AM | Peak Integrated by Software |
| VSTDICC005 | VY020619.D | 1,2,3-Trichloropropane | MMDadoda | 12/18/2024 8:36:41 AM | SAM | 12/18/2024 8:50:52 AM | Peak Integrated by Software |
| VSTDICC005 | VY020619.D | Methacrylonitrile | MMDadoda | 12/18/2024 8:36:41 AM | SAM | 12/18/2024 8:50:52 AM | Peak Integrated by Software |
| VSTDICV050 | VY020620.D | 1,2,3-Trichloropropane | Romaben | 12/18/2024 8:31:07 AM | MMDadoda | 12/18/2024 8:36:43 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY122024 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VY020664.D | 1,2,3-Trichloropropane | SAM | 12/23/2024 7:25:18 AM | MMDadoda | 12/24/2024 12:28:29 AM | Peak Integrated by Software |
| VY1220SBS01 | VY020666.D | 1,2,3-Trichloropropane | SAM | 12/23/2024 7:25:19 AM | MMDadoda | 12/24/2024 12:28:30 AM | Peak Integrated by Software |
| P5316-04 | VY020672.D | Methylene Chloride | SAM | 12/24/2024 12:24:51 AM | MMDadoda | 12/24/2024 12:28:33 AM | Peak Integrated by Software |
| VSTDCCC050 | VY020682.D | 1,2,3-Trichloropropane | SAM | 12/23/2024 7:25:25 AM | MMDadoda | 12/24/2024 12:28:35 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY122624 | Instrument | MSVOA_y |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC005 | VY020706.D | 1,2,3-Trichloropropane | MMDadoda | 12/27/2024 9:56:16 AM | SAM | 12/27/2024 9:59:40 AM | Peak Integrated by Software |
| VSTDICC005 | VY020706.D | Methylene Chloride | MMDadoda | 12/27/2024 9:56:16 AM | SAM | 12/27/2024 9:59:40 AM | Peak Integrated by Software |
| VSTDICC005 | VY020706.D | Tert butyl alcohol | MMDadoda | 12/27/2024 9:56:16 AM | SAM | 12/27/2024 9:59:40 AM | Peak Integrated by Software |
| VSTDICC010 | VY020707.D | 1,2,3-Trichloropropane | MMDadoda | 12/27/2024 9:56:18 AM | SAM | 12/27/2024 9:59:42 AM | Peak Integrated by Software |
| VSTDICC020 | VY020708.D | 1,2,3-Trichloropropane | MMDadoda | 12/27/2024 9:56:21 AM | SAM | 12/27/2024 9:59:45 AM | Peak Integrated by Software |
| VSTDICCC050 | VY020709.D | 1,2,3-Trichloropropane | MMDadoda | 12/27/2024 9:56:23 AM | SAM | 12/27/2024 9:59:47 AM | Peak Integrated by Software |
| VSTDICC150 | VY020710.D | 1,2,3-Trichloropropane | MMDadoda | 12/27/2024 9:56:26 AM | SAM | 12/27/2024 9:59:49 AM | Peak Integrated by Software |
| VSTDICC100 | VY020711.D | 1,2,3-Trichloropropane | MMDadoda | 12/27/2024 9:56:28 AM | SAM | 12/27/2024 9:59:51 AM | Peak Integrated by Software |
| VSTDICV050 | VY020713.D | 1,2,3-Trichloropropane | MMDadoda | 12/27/2024 9:56:30 AM | SAM | 12/27/2024 9:59:53 AM | Peak Integrated by Software |
| VY1226SBS01 | VY020715.D | 1,2,3-Trichloropropane | MMDadoda | 12/27/2024 9:56:31 AM | SAM | 12/27/2024 9:59:55 AM | Peak Integrated by Software |
| VY1226SBS01 | VY020715.D | Methacrylonitrile | MMDadoda | 12/27/2024 9:56:31 AM | SAM | 12/27/2024 9:59:55 AM | Peak Integrated by Software |
| VY1226SBSD01 | VY020716.D | 1,2,3-Trichloropropane | MMDadoda | 12/27/2024 9:56:33 AM | SAM | 12/27/2024 9:59:56 AM | Peak Integrated by Software |
| VSTDCCC050 | VY020728.D | 1,2,3-Trichloropropane | MMDadoda | 12/27/2024 9:56:37 AM | SAM | 12/27/2024 10:00:00 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VY122624 | Instrument | MSVOA_y |
|---|---|---|---|

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

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Fax : 908 789 8922

**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121724

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/18/2024 8:38:34 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/18/2024 8:51:04 AM | | |
| SubDirectory | VY121724 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132182 |
| Initial Calibration Stds | VP132183,VP132184,VP132185,VP132186,VP132187,VP132188 |
| CCC | |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP132189 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY020611.D | 17 Dec 2024 09:00 | SY/MD | Ok |
| 2 | VSTDICC005 | VY020612.D | 17 Dec 2024 09:38 | SY/MD | Ok |
| 3 | VSTDICC010 | VY020613.D | 17 Dec 2024 10:01 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VY020614.D | 17 Dec 2024 10:23 | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VY020615.D | 17 Dec 2024 10:51 | SY/MD | Ok,M |
| 6 | VSTDICC100 | VY020616.D | 17 Dec 2024 11:14 | SY/MD | Ok,M |
| 7 | VSTDICC150 | VY020617.D | 17 Dec 2024 11:37 | SY/MD | Ok,M |
| 8 | VIBLK | VY020618.D | 17 Dec 2024 12:24 | SY/MD | Ok |
| 9 | VSTDICC005 | VY020619.D | 17 Dec 2024 14:51 | SY/MD | Ok,M |
| 10 | VSTDICV050 | VY020620.D | 17 Dec 2024 17:41 | SY/MD | Ok,M |

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Fax : 908 789 8922

**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY122024

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 12/23/2024 7:25:27 AM | | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 12/24/2024 12:28:45 AM | | | | |
| SubDirectory | VY122024 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y12022024s.m | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132264 |
| Initial Calibration Stds | |
| CCC | VP132265,VP132266 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY020663.D | 20 Dec 2024 08:37 | SY/MD | Ok |
| 2 | VSTDCCC050 | VY020664.D | 20 Dec 2024 09:09 | SY/MD | Ok,M |
| 3 | VY1220SBL01 | VY020665.D | 20 Dec 2024 11:24 | SY/MD | Ok |
| 4 | VY1220SBS01 | VY020666.D | 20 Dec 2024 13:12 | SY/MD | Ok,M |
| 5 | VY1220SBSD01 | VY020667.D | 20 Dec 2024 13:34 | SY/MD | Ok,M |
| 6 | P5279-03 | VY020668.D | 20 Dec 2024 14:10 | SY/MD | Ok |
| 7 | P5316-01 | VY020669.D | 20 Dec 2024 14:34 | SY/MD | ReRun |
| 8 | P5316-02 | VY020670.D | 20 Dec 2024 14:57 | SY/MD | ReRun |
| 9 | P5316-03 | VY020671.D | 20 Dec 2024 15:21 | SY/MD | ReRun |
| 10 | P5316-04 | VY020672.D | 20 Dec 2024 15:44 | SY/MD | ReRun |
| 11 | P5343-03 | VY020673.D | 20 Dec 2024 16:07 | SY/MD | Not Ok |
| 12 | P5343-01 | VY020674.D | 20 Dec 2024 16:31 | SY/MD | Not Ok |
| 13 | P5316-04RE | VY020675.D | 20 Dec 2024 16:52 | SY/MD | Confirms |
| 14 | P5306-01 | VY020676.D | 20 Dec 2024 17:16 | SY/MD | Not Ok |
| 15 | P5306-03 | VY020677.D | 20 Dec 2024 17:39 | SY/MD | Ok |
| 16 | P5306-05 | VY020678.D | 20 Dec 2024 18:02 | SY/MD | Ok |
| 17 | P5306-13RE | VY020679.D | 20 Dec 2024 18:26 | SY/MD | Confirms |
| 18 | P5306-07 | VY020680.D | 20 Dec 2024 18:49 | SY/MD | Ok |
| 19 | P5306-09RE | VY020681.D | 20 Dec 2024 19:13 | SY/MD | Confirms |
| 20 | VSTDCCC050 | VY020682.D | 20 Dec 2024 19:35 | SY/MD | Ok,M |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY122624

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/27/2024 9:56:45 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/27/2024 10:00:03 AM | | | | |
| SubDirectory | VY122624 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y122624S.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132321 |
| Initial Calibration Stds | VP132326,VP132327,VP132328,VP132329,VP132330,VP132331 |
| CCC | VP132333,VP132334 |
| Internal Standard/PEM | |
| ICV/I.BLK | VP132332 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VY020705.D | 26 Dec 2024 08:29 | SY/MD | Ok |
| 2 | VSTDICC005 | VY020706.D | 26 Dec 2024 09:31 | SY/MD | Ok,M |
| 3 | VSTDICC010 | VY020707.D | 26 Dec 2024 09:53 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VY020708.D | 26 Dec 2024 10:16 | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VY020709.D | 26 Dec 2024 10:39 | SY/MD | Ok,M |
| 6 | VSTDICC150 | VY020710.D | 26 Dec 2024 11:01 | SY/MD | Ok,M |
| 7 | VSTDICC100 | VY020711.D | 26 Dec 2024 11:51 | SY/MD | Ok,M |
| 8 | VIBLK | VY020712.D | 26 Dec 2024 12:13 | SY/MD | Ok |
| 9 | VSTDICV050 | VY020713.D | 26 Dec 2024 12:51 | SY/MD | Ok,M |
| 10 | VY1226SBL01 | VY020714.D | 26 Dec 2024 13:56 | SY/MD | Ok |
| 11 | VY1226SBS01 | VY020715.D | 26 Dec 2024 14:32 | SY/MD | Ok,M |
| 12 | VY1226SBSD01 | VY020716.D | 26 Dec 2024 14:54 | SY/MD | Ok,M |
| 13 | P5383-01 | VY020717.D | 26 Dec 2024 15:18 | SY/MD | Not Ok |
| 14 | P5316-01 | VY020718.D | 26 Dec 2024 15:41 | SY/MD | Ok |
| 15 | P5383-01 | VY020719.D | 26 Dec 2024 16:04 | SY/MD | ReRun |
| 16 | P5316-02 | VY020720.D | 26 Dec 2024 16:28 | SY/MD | Ok |
| 17 | P5383-01 | VY020721.D | 26 Dec 2024 16:51 | SY/MD | Ok |
| 18 | P5316-03 | VY020722.D | 26 Dec 2024 17:15 | SY/MD | Ok |
| 19 | P5342-01RE | VY020723.D | 26 Dec 2024 17:38 | SY/MD | Confirms |
| 20 | P5342-03RE | VY020724.D | 26 Dec 2024 18:01 | SY/MD | Confirms |
| 21 | P5342-05RE | VY020725.D | 26 Dec 2024 18:25 | SY/MD | Confirms |

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**Instrument ID: MSVOA_Y**

## Daily Analysis Runlog For Sequence/QCBatch ID # VY122624

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/27/2024 9:56:45 AM | | | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/27/2024 10:00:03 AM | | | | |
| SubDirectory | VY122624 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y122624S.M | | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132321 |
| Initial Calibration Stds | VP132326,VP132327,VP132328,VP132329,VP132330,VP132331 |
| CCC | VP132333,VP132334 |
| Internal Standard/PEM | |
| ICV/I.BLK | VP132332 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | P5318-01 | VY020726.D | 26 Dec 2024 18:48 | SY/MD | ReRun |
| 23 | P5382-01 | VY020727.D | 26 Dec 2024 19:12 | SY/MD | Ok |
| 24 | VSTDCCC050 | VY020728.D | 26 Dec 2024 19:34 | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY121724

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/18/2024 8:38:34 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/18/2024 8:51:04 AM | | |
| SubDirectory | VY121724 | HP Acquire Method | | HP Processing Method | 82y121724s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132182 |
| Initial Calibration Stds | VP132183,VP132184,VP132185,VP132186,VP132187,VP132188 |
| CCC | |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | VP132189 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY020611.D | 17 Dec 2024 09:00 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VY020612.D | 17 Dec 2024 09:38 | | SY/MD | Ok |
| 3 | VSTDICC010 | VSTDICC010 | VY020613.D | 17 Dec 2024 10:01 | Com #16,30 on LR | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VY020614.D | 17 Dec 2024 10:23 | Com #11 on QR | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VY020615.D | 17 Dec 2024 10:51 | Com #13 fail for method | SY/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VY020616.D | 17 Dec 2024 11:14 | | SY/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VY020617.D | 17 Dec 2024 11:37 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VY020618.D | 17 Dec 2024 12:24 | | SY/MD | Ok |
| 9 | VSTDICC005 | VSTDICC005 | VY020619.D | 17 Dec 2024 14:51 | %D fail for com #11 | SY/MD | Ok,M |
| 10 | VSTDICV050 | ICVVY121724 | VY020620.D | 17 Dec 2024 17:41 | ICV fail for com #11,16 | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY122024

| | | | | | | |
|---|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 12/23/2024 7:25:27 AM | | | |
| Supervise By | Mahesh Dadoda | Supervise On | 12/24/2024 12:28:45 AM | | | |
| SubDirectory | VY122024 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y12022024s.m | |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132264 |
| Initial Calibration Stds | |
| CCC | VP132265,VP132266 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY020663.D | 20 Dec 2024 08:37 | | SY/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VY020664.D | 20 Dec 2024 09:09 | | SY/MD | Ok,M |
| 3 | VY1220SBL01 | VY1220SBL01 | VY020665.D | 20 Dec 2024 11:24 | | SY/MD | Ok |
| 4 | VY1220SBS01 | VY1220SBS01 | VY020666.D | 20 Dec 2024 13:12 | | SY/MD | Ok,M |
| 5 | VY1220SBSD01 | VY1220SBSD01 | VY020667.D | 20 Dec 2024 13:34 | | SY/MD | Ok,M |
| 6 | P5279-03 | ROCKAWAY-PARK | VY020668.D | 20 Dec 2024 14:10 | vial-B | SY/MD | Ok |
| 7 | P5316-01 | TT-304-IDWSO-202412 | VY020669.D | 20 Dec 2024 14:34 | vial-A Surrogate Fail | SY/MD | ReRun |
| 8 | P5316-02 | TT-304-IDWSO-202412 | VY020670.D | 20 Dec 2024 14:57 | vial-A Surrogate Fail | SY/MD | ReRun |
| 9 | P5316-03 | TT-304-IDWSO-202412 | VY020671.D | 20 Dec 2024 15:21 | vial-A Surrogate Fail | SY/MD | ReRun |
| 10 | P5316-04 | TT-304-IDWSO-202412 | VY020672.D | 20 Dec 2024 15:44 | vial-A Internal Standard and Surrogate Fail | SY/MD | ReRun |
| 11 | P5343-03 | VNJ281 | VY020673.D | 20 Dec 2024 16:07 | vial-A Not purged | SY/MD | Not Ok |
| 12 | P5343-01 | VNJ210 | VY020674.D | 20 Dec 2024 16:31 | vial-B Not purged | SY/MD | Not Ok |
| 13 | P5316-04RE | TT-304-IDWSO-202412 | VY020675.D | 20 Dec 2024 16:52 | vial-B Surrogate Fail | SY/MD | Confirms |
| 14 | P5306-01 | OU4-VSL-07-121224 | VY020676.D | 20 Dec 2024 17:16 | vial-B NOT PURGE | SY/MD | Not Ok |
| 15 | P5306-03 | OU4-VSL-08-121224 | VY020677.D | 20 Dec 2024 17:39 | vial-B Surrogate Fail | SY/MD | Ok |
| 16 | P5306-05 | OU4-VSL-09-121224 | VY020678.D | 20 Dec 2024 18:02 | vial-B | SY/MD | Ok |
| 17 | P5306-13RE | OU4-VSL-13-121224RE | VY020679.D | 20 Dec 2024 18:26 | vial-B Surrogate Fail;Internal Standard Fail | SY/MD | Confirms |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY122024

| | | | | | |
|---|---|---|---|---|---|
| Review By | Semsettin Yesilyurt | Review On | 12/23/2024 7:25:27 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 12/24/2024 12:28:45 AM | | |
| SubDirectory | VY122024 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82y12022024s.m |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132264 |
| Initial Calibration Stds | |
| CCC | VP132265,VP132266 |
| Internal Standard/PEM | VP131783 |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 18 | P5306-07 | OU4-VSL-10-121224 | VY020680.D | 20 Dec 2024 18:49 | vial-B | SY/MD | Ok |
| 19 | P5306-09RE | OU4-VSL-11-121224RE | VY020681.D | 20 Dec 2024 19:13 | vial-B Surrogate Fail;Internal Standard Fail | SY/MD | Confirms |
| 20 | VSTDCCC050 | VSTDCCC050EC | VY020682.D | 20 Dec 2024 19:35 | | SY/MD | Ok,M |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY122624

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/27/2024 9:56:45 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/27/2024 10:00:03 AM | | |
| SubDirectory | VY122624 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y122624S.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132321 |
| Initial Calibration Stds | VP132326,VP132327,VP132328,VP132329,VP132330,VP132331 |
| CCC | VP132333,VP132334 |
| Internal Standard/PEM | |
| ICV/I.BLK | VP132332 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VY020705.D | 26 Dec 2024 08:29 | | SY/MD | Ok |
| 2 | VSTDICC005 | VSTDICC005 | VY020706.D | 26 Dec 2024 09:31 | Fail for acroline | SY/MD | Ok,M |
| 3 | VSTDICC010 | VSTDICC010 | VY020707.D | 26 Dec 2024 09:53 | LR-11,50 | SY/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VY020708.D | 26 Dec 2024 10:16 | | SY/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VY020709.D | 26 Dec 2024 10:39 | | SY/MD | Ok,M |
| 6 | VSTDICC150 | VSTDICC150 | VY020710.D | 26 Dec 2024 11:01 | | SY/MD | Ok,M |
| 7 | VSTDICC100 | VSTDICC100 | VY020711.D | 26 Dec 2024 11:51 | | SY/MD | Ok,M |
| 8 | VIBLK | VIBLK | VY020712.D | 26 Dec 2024 12:13 | | SY/MD | Ok |
| 9 | VSTDICV050 | ICVVY122624 | VY020713.D | 26 Dec 2024 12:51 | | SY/MD | Ok,M |
| 10 | VY1226SBL01 | VY1226SBL01 | VY020714.D | 26 Dec 2024 13:56 | | SY/MD | Ok |
| 11 | VY1226SBS01 | VY1226SBS01 | VY020715.D | 26 Dec 2024 14:32 | | SY/MD | Ok,M |
| 12 | VY1226SBSD01 | VY1226SBSD01 | VY020716.D | 26 Dec 2024 14:54 | | SY/MD | Ok,M |
| 13 | P5383-01 | OK-02-12232024 | VY020717.D | 26 Dec 2024 15:18 | Not purged,wrong purge | SY/MD | Not Ok |
| 14 | P5316-01 | TT-304-IDWSO-202412 | VY020718.D | 26 Dec 2024 15:41 | vial B | SY/MD | Ok |
| 15 | P5383-01 | OK-02-12232024 | VY020719.D | 26 Dec 2024 16:04 | ISTD Fail.vial B | SY/MD | ReRun |
| 16 | P5316-02 | TT-304-IDWSO-202412 | VY020720.D | 26 Dec 2024 16:28 | vial B | SY/MD | Ok |
| 17 | P5383-01 | OK-02-12232024 | VY020721.D | 26 Dec 2024 16:51 | vial A | SY/MD | Ok |
| 18 | P5316-03 | TT-304-IDWSO-202412 | VY020722.D | 26 Dec 2024 17:15 | vial B | SY/MD | Ok |

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**Instrument ID:** MSVOA_Y

## Daily Analysis Runlog For Sequence/QCBatch ID # VY122624

| | | | | | |
|---|---|---|---|---|---|
| Review By | Mahesh Dadoda | Review On | 12/27/2024 9:56:45 AM | | |
| Supervise By | Semsettin Yesilyurt | Supervise On | 12/27/2024 10:00:03 AM | | |
| SubDirectory | VY122624 | HP Acquire Method | MSVOA_Y | HP Processing Method | 82Y122624S.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132321 |
| Initial Calibration Stds | VP132326,VP132327,VP132328,VP132329,VP132330,VP132331 |
| CCC | VP132333,VP132334 |
| Internal Standard/PEM | |
| ICV/I.BLK | VP132332 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | P5342-01RE | CHRT26634RE | VY020723.D | 26 Dec 2024 17:38 | Internal Standard Fail ;Surrogate fail,vial B | SY/MD | Confirms |
| 20 | P5342-03RE | HT2651RE | VY020724.D | 26 Dec 2024 18:01 | Internal Standard Fail,surrogate fail,vial B | SY/MD | Confirms |
| 21 | P5342-05RE | RB21198RE | VY020725.D | 26 Dec 2024 18:25 | Internal Standard Fail,vial B | SY/MD | Confirms |
| 22 | P5318-01 | AU-06-122024 | VY020726.D | 26 Dec 2024 18:48 | Internal Standard Fail,vial A | SY/MD | ReRun |
| 23 | P5382-01 | COMP-1 | VY020727.D | 26 Dec 2024 19:12 | vial A | SY/MD | Ok |
| 24 | VSTDCCC050 | VSTDCCC050EC | VY020728.D | 26 Dec 2024 19:34 | | SY/MD | Ok,M |

M : Manual Integration

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 12/19/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:35
**In Date:** 12/18/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:27
**Out Date:** 12/19/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133993

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P5316-01 | TT-304-IDWSO-20241217-1 | 1 | 1.15 | 8.64 | 9.79 | 7.08 | 68.6 | |
| P5316-02 | TT-304-IDWSO-20241217-2 | 2 | 1.19 | 8.62 | 9.81 | 7.6 | 74.4 | |
| P5316-03 | TT-304-IDWSO-20241217-3 | 3 | 1.16 | 8.82 | 9.98 | 8.11 | 78.8 | |
| P5316-04 | TT-304-IDWSO-20241217-4 | 4 | 1.16 | 8.58 | 9.74 | 7.36 | 72.3 | |
| P5321-01 | SS055P-SD06-121324-00 | 5 | 1.16 | 8.61 | 9.77 | 7.14 | 69.5 | |
| P5321-02 | SS050P-SD21-121324-00 | 6 | 1.13 | 8.85 | 9.98 | 8.23 | 80.2 | |
| P5321-03 | SS050P-SD22-121724-00 | 7 | 1.18 | 8.77 | 9.95 | 8.25 | 80.6 | |
| P5321-04 | SS050P-SD20-121724-00 | 8 | 1.14 | 8.82 | 9.96 | 6.56 | 61.5 | |
| P5330-01 | TP-5 | 9 | 1.17 | 8.54 | 9.71 | 9.33 | 95.6 | |
| P5330-02 | TP-5-EPH | 10 | 1.11 | 8.78 | 9.89 | 9.5 | 95.6 | |
| P5330-03 | TP-5-VOC | 11 | 1.19 | 8.61 | 9.8 | 9.44 | 95.8 | |
| P5337-01 | ETGI-357 | 24 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | CONCRETE sample |
| P5338-01 | USED-OIL-DEBRIS | 25 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oily-debris |
| P5338-02 | USED-MOBILE-TRANSFORMER-OIL | 26 | 1.00 | 1.00 | 2.00 | 2.00 | 100.0 | oil sample |
| P5339-01 | TR-06-12182024 | 27 | 1.16 | 8.77 | 9.93 | 8.74 | 86.4 | |
| P5339-02 | TR-06-12182024-E2 | 28 | 1.17 | 8.82 | 9.99 | 9.19 | 90.9 | |
| P5341-02 | STORMWATER-SOLID-COMP | 12 | 1.15 | 8.81 | 9.96 | 5.91 | 54.0 | sludge sample |
| P5342-01 | CHRT26634 | 13 | 1.14 | 8.40 | 9.54 | 7.05 | 70.4 | |
| P5342-02 | CHRT26634-E2 | 14 | 1.16 | 8.75 | 9.91 | 7.00 | 66.7 | |
| P5342-03 | HT2651 | 15 | 1.16 | 8.75 | 9.91 | 8.91 | 88.6 | |
| P5342-04 | HT2651-E2 | 16 | 1.19 | 8.50 | 9.69 | 8.82 | 89.8 | |
| P5342-05 | RB21198 | 17 | 1.17 | 8.80 | 9.97 | 8.09 | 78.6 | |
| P5342-06 | RB21198-E2 | 18 | 1.12 | 8.87 | 9.99 | 7.66 | 73.7 | |
| P5343-01 | VNJ210 | 19 | 1.14 | 8.63 | 9.77 | 8.08 | 80.4 | |
| P5343-02 | VNJ210-E2 | 20 | 1.15 | 8.81 | 9.96 | 8.9 | 88.0 | |
| P5343-03 | VNJ281 | 21 | 1.17 | 8.53 | 9.7 | 8.55 | 86.5 | |

# PERCENT SOLID

**Supervisor:** Iwona
**Analyst:** jignesh
**Date:** 12/19/2024

**OVENTEMP IN Celsius(°C):** 107
**Time IN:** 17:35
**In Date:** 12/18/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**OvenID:** M OVEN#1

**OVENTEMP OUT Celsius(°C):** 103
**Time OUT:** 08:27
**Out Date:** 12/19/2024
**Weight Check 1.0g:** 1.00
**Weight Check 10g:** 10.00
**BalanceID:** M SC-4
**Thermometer ID:** % SOLID- OVEN

**QC:** LB133993

| Lab ID | Client SampleID | Dish # | Dish Wt(g) (A) | Sample Wt(g) | Dish + Sample Wt(g) (B) | Dish+Dry Sample Wt(g) (C) | % Solid | Comments |
|---|---|---|---|---|---|---|---|---|
| P5343-04 | VNJ281-E2 | 22 | 1.13 | 8.72 | 9.85 | 8.83 | 88.3 | |
| P5343-05 | OILY-RAGS-274 | 23 | 1.14 | 8.58 | 9.72 | 9.22 | 94.2 | |

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

# WORKLIST(Hardcopy Internal Chain)

VB 133993

**WorkList Name :** %1-121824 **WorkList ID :** 186438 **Department :** Wet-Chemistry **Date :** 12-18-2024 12:12:13

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5316-01 | TT-304-IDWSO-20241217-1 | Solid | Percent Solids | Cool 4 deg C | TETR06 | L51 | 12/17/2024 | Chemtech -SO |
| P5316-02 | TT-304-IDWSO-20241217-2 | Solid | Percent Solids | Cool 4 deg C | TETR06 | L51 | 12/17/2024 | Chemtech -SO |
| P5316-03 | TT-304-IDWSO-20241217-3 | Solid | Percent Solids | Cool 4 deg C | TETR06 | L51 | 12/17/2024 | Chemtech -SO |
| P5316-04 | TT-304-IDWSO-20241217-4 | Solid | Percent Solids | Cool 4 deg C | TETR06 | L51 | 12/17/2024 | Chemtech -SO |
| P5321-01 | SS055P-SD06-121324-00 | Solid | Percent Solids | Cool 4 deg C | TETR06 | L51 | 12/17/2024 | Chemtech -SO |
| P5321-02 | SS050P-SD21-121324-00 | Solid | Percent Solids | Cool 4 deg C | WEST04 | L41 | 12/13/2024 | Chemtech -SO |
| P5321-03 | SS050P-SD22-121724-00 | Solid | Percent Solids | Cool 4 deg C | WEST04 | L41 | 12/13/2024 | Chemtech -SO |
| P5321-04 | SS050P-SD20-121724-00 | Solid | Percent Solids | Cool 4 deg C | WEST04 | L41 | 12/17/2024 | Chemtech -SO |
| P5330-01 | TP-5 | Solid | Percent Solids | Cool 4 deg C | WEST04 | L41 | 12/17/2024 | Chemtech -SO |
| P5330-02 | TP-5-EPH | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L51 | 12/18/2024 | Chemtech -SO |
| P5330-03 | TP-5-VOC | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L51 | 12/18/2024 | Chemtech -SO |
| P5337-01 | ETGI-357 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | L51 | 12/18/2024 | Chemtech -SO |
| P5338-01 | USED-OIL-DEBRIS | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N11 | 12/18/2024 | Chemtech -SO |
| P5338-02 | USED-MOBILE-TRANSFORME | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N11 | 12/18/2024 | Chemtech -SO |
| P5339-01 | TR-06-12182024 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N11 | 12/18/2024 | Chemtech -SO |
| P5339-02 | TR-06-12182024-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG05 | N12 | 12/18/2024 | Chemtech -SO |
| P5341-02 | STORMWATER-SOLID-COMP | Solid | Percent Solids | Cool 4 deg C | PSEG05 | N12 | 12/18/2024 | Chemtech -SO |
| P5342-01 | CHRT26634 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |
| P5342-02 | CHRT26634-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |
| P5342-03 | HT2651 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |
| P5342-04 | HT2651-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |

**Date/Time** 12-18-24 16:30

**Raw Sample Received by:** [illegible]

**Raw Sample Relinquished by:** [illegible]

**Date/Time** 12-18-24 17:40

**Raw Sample Received by:** [illegible]

**Raw Sample Relinquished by:** [illegible]

# WORKLIST(Hardcopy Internal Chain)

VB 133993

**WorkList Name :** %1-121824 **WorkList ID :** 186438 **Department :** Wet-Chemistry **Date :** 12-18-2024 12:12:13

| Sample | Customer Sample | Matrix | Test | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method |
|---|---|---|---|---|---|---|---|---|
| P5342-05 | RB21198 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |
| P5342-06 | RB21198-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |
| P5343-01 | VNJ210 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |
| P5343-02 | VNJ210-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |
| P5343-03 | VNJ281 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |
| P5343-04 | VNJ281-E2 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |
| P5343-05 | OILY-RAGS-274 | Solid | Percent Solids | Cool 4 deg C | PSEG03 | N12 | 12/18/2024 | Chemtech -SO |

**Date/Time** 12-18-24 16:30
**Raw Sample Received by:** [illegible]
**Raw Sample Relinquished by:** CP SM

**Date/Time** 12-18-24 17:40
**Raw Sample Received by:** CP SM
**Raw Sample Relinquished by:** [illegible]

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# Prep Standard - Chemical Standard Summary

**Order ID :** P5316

**Test :** VOCMS Group4

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** VY122024,VY122624,

**Standard ID :**
VP129195,VP130432,VP130434,VP130435,VP131767,VP131783,VP131864,VP131865,VP131985,VP131987,VP131988,VP131989,VP131990,VP132005,VP132006,VP132007,VP132008,VP132035,VP132036,VP132037,VP132038,VP132097,VP132098,VP132099,VP132101,VP132102,VP132264,VP132265,VP132266,VP132321,VP132326,VP132327,VP132328,VP132329,VP132330,VP132331,VP132332,VP132333,VP132334,

**Chemical ID :**
V12966,V13391,V13445,V13449,V13465,V13466,V13582,V13707,V13806,V13820,V13918,V14020,V14021,V14096,V14105,V14106,V14125,V14143,V14145,V14152,V14154,V14173,V14174,V14178,V14192,V14194,V14201,V14289,V14424,V14434,V14437,V14461,V14614,V14630,V14631,V14632,V14633,V14650,V14651,V14652,W3112,

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 262 | 8260 Working STD (BCM)-Second source, 100PPM | VP129195 | 07/22/2024 | 01/22/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 07/26/2024 |

**FROM** 1.00000ml of V12966 + 9.00000ml of V14143 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 249 | 8260 Surrogate, 100PPM | VP130432 | 09/20/2024 | 02/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 09/26/2024 |

**FROM** 0.10000ml of V13707 + 24.90000ml of V14145 = Final Quantity: 25.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1738 | 8260 surrogate 20 ppm | VP130434 | 09/20/2024 | 02/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 10/02/2024 |

**FROM** 0.02000ml of V13707 + 24.99000ml of V14145 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 250 | 8260 Surrogate, 10PPM | VP130435 | 09/20/2024 | 02/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 10/02/2024 |

**FROM** 9.00000ml of V14145 + 1.00000ml of VP130432 = Final Quantity: 10.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 218 | BFB, 25PPM | VP131767 | 11/22/2024 | 05/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 11/27/2024 |

**FROM** 0.50000ml of V13391 + 49.50000ml of V14154 = Final Quantity: 50.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1917 | 8260 Internal standard 50 ppm | VP131783 | 11/22/2024 | 05/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 11/27/2024 |

**FROM** 0.02000ml of V14289 + 9.98000ml of V14154 = Final Quantity: 10.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 259 | 8260 Calibration Working STD Mix-Second source, 160PPM | VP131864 | 12/02/2024 | 01/11/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/03/2024 |

**FROM** 0.16000ml of V13449 + 0.80000ml of V13820 + 0.80000ml of V14096 + 0.80000ml of V14125 + 0.80000ml of V14178 + 0.80000ml of V14424 + 1.60000ml of V13918 + 4.24000ml of V14461 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 260 | 8260 Calibration Working STD Mix-Second source, 100PPM | VP131865 | 12/02/2024 | 01/11/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/03/2024 |

**FROM** 1.87500ml of V14461 + 3.12500ml of VP131864 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 264 | 8260 Working STD (Acrolein)-Second source, 500PPM | VP131985 | 12/06/2024 | 01/04/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/24/2024 |

**FROM** 1.87500ml of V14152 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 51 | 8260 Working STD (Acrolein) -first source, 800PPM | VP131987 | 12/06/2024 | 01/05/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 1.00000ml of V14652 + 1.50000ml of V14650 + 1.50000ml of V14651 + 21.00000ml of V14152 = Final Quantity: 25.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 56 | 8260 Working STD (Acrolein) -first source, 500PPM | VP131988 | 12/06/2024 | 01/05/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 5.62500ml of V14152 + 9.37500ml of VP131987 = Final Quantity: 15.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 180 | 8260 Working STD (Acrolein)-First source, 100PPM | VP131989 | 12/06/2024 | 01/05/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 17.50000ml of V14152 + 2.50000ml of VP131987 = Final Quantity: 20.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 181 | 8260 Working STD (Acrolein)-First source, 50PPM | VP131990 | 12/06/2024 | 01/05/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 9.37500ml of V14152 + 0.62500ml of VP131987 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 257 | 8260 Calibration Working STD Mix-First source, 160PPM | VP132005 | 12/09/2024 | 01/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 0.40000ml of V13445 + 1.00000ml of V13806 + 1.00000ml of V14020 + 1.00000ml of V14021 + 1.00000ml of V14105 + 1.00000ml of V14106 + 1.00000ml of V14173 + 1.00000ml of V14174 + 1.00000ml of V14194 + 1.00000ml of V14434 + 1.00000ml of V14437 + 1.50000ml of V14192 + 1.50000ml of V14201 + 10.60000ml of V14152 = Final Quantity: 25.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 244 | 8260 Calibration Working STD Mix-First source, 100PPM | VP132006 | 12/09/2024 | 01/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 5.62500ml of V14152 + 9.37500ml of VP132005 = Final Quantity: 15.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 245 | 8260 Calibration Working STD Mix-First source, 20PPM | VP132007 | 12/09/2024 | 01/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 17.50000ml of V14152 + 2.50000ml of VP132005 = Final Quantity: 20.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 246 | 8260 Calibration Working STD Mix-First source, 10PPM | VP132008 | 12/09/2024 | 01/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 9.37500ml of V14152 + 0.62500ml of VP132005 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1810 | 8260 Working Std(2-CVE)-800ppm | VP132035 | 12/10/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 1.00000ml of V14630 + 1.00000ml of V14631 + 1.00000ml of V14632 + 1.00000ml of V14633 + 46.00000ml of V14614 = Final Quantity: 50.000 ml

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Fax : 908 789 8922

# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1811 | 8260 Working Std(2-CVE)-500ppm | VP132036 | 12/10/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 7.50000ml of V14614 + 12.50000ml of VP132035 = Final Quantity: 20.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1812 | 8260 Working Std(2-CVE)-100ppm | VP132037 | 12/10/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 0.25000ml of V14633 + 24.75000ml of V14614 = Final Quantity: 25.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1813 | 8260 Working Std(2-CVE)-50ppm | VP132038 | 12/10/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/12/2024 |

**FROM** 20.00000ml of V14614 + 1.25000ml of VP132035 = Final Quantity: 20.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 253 | 8260 Working STD (BCM)-First source, 20PPM | VP132097 | 12/12/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/19/2024 |

**FROM** 0.50000ml of V13466 + 49.50000ml of V14614 = Final Quantity: 50.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 252 | 8260 Working STD (BCM)-First source, 100PPM | VP132098 | 12/12/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/19/2024 |

**FROM** 1.25000ml of V13466 + 23.75000ml of V14614 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 254 | 8260 Working STD (BCM)-First source, 10PPM | VP132099 | 12/12/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/19/2024 |

**FROM** 0.05000ml of V13465 + 9.95000ml of V14614 = Final Quantity: 10.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1817 | 8260 Working Std(2-CVE)-SS, 800ppm | VP132101 | 12/12/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/19/2024 |

**FROM** 0.80000ml of V13582 + 9.20000ml of V14614 = Final Quantity: 10.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1819 | 8260 Working Std(2-CVE)-SS, 500ppm | VP132102 | 12/12/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/19/2024 |

**FROM** 1.87500ml of V14614 + 3.12500ml of VP132101 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 732 | BFB TUNE CHECK - SOIL | VP132264 | 12/20/2024 | 12/21/2024 | Romaben Patel | None | None | Mahesh Dadoda 12/23/2024 |

**FROM** 4.99800ml of W3112 + 0.00200ml of VP131767 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP132265 | 12/20/2024 | 12/21/2024 | Romaben Patel | None | None | Mahesh Dadoda 12/23/2024 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP131988 + 0.00250ml of VP132006 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP132266 | 12/20/2024 | 12/21/2024 | Romaben Patel | None | None | Mahesh Dadoda 12/23/2024 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP131988 + 0.00250ml of VP132006 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 732 | BFB TUNE CHECK - SOIL | VP132321 | 12/26/2024 | 12/27/2024 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/27/2024 |

**FROM** 4.99800ml of W3112 + 0.00200ml of VP131767 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 267 | 5 PPB ICC, 8260-SOIL | VP132326 | 12/26/2024 | 12/27/2024 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/27/2024 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP130435 + 0.00250ml of VP131990 + 0.00250ml of VP132008 + 0.00250ml of VP132038 + 0.00250ml of VP132099 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 269 | 10 PPB ICC, 8260-SOIL | VP132327 | 12/26/2024 | 12/27/2024 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/27/2024 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP130434 + 0.00250ml of VP131989 + 0.00250ml of VP132007 + 0.00250ml of VP132037 + 0.00250ml of VP132097 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 270 | 20 PPB ICC, 8260-SOIL | VP132328 | 12/26/2024 | 12/27/2024 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/27/2024 |

**FROM** 4.96500ml of W3112 + 0.00500ml of VP130434 + 0.00500ml of VP131783 + 0.00500ml of VP131989 + 0.00500ml of VP132007 + 0.00500ml of VP132037 + 0.00500ml of VP132097 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 273 | 50 PPB ICC, 8260-SOIL | VP132329 | 12/26/2024 | 12/27/2024 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/27/2024 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP131988 + 0.00250ml of VP132006 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 280 | 100 PPB ICC, 8260-SOIL | VP132330 | 12/26/2024 | 12/27/2024 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/27/2024 |

**FROM** 4.96500ml of W3112 + 0.00500ml of VP130432 + 0.00500ml of VP131783 + 0.00500ml of VP131988 + 0.00500ml of VP132006 + 0.00500ml of VP132036 + 0.00500ml of VP132098 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 1653 | 150 PPB ICC,8260-SOIL | VP132331 | 12/26/2024 | 12/27/2024 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/27/2024 |

**FROM** 4.95000ml of W3112 + 0.00500ml of VP131783 + 0.00750ml of VP130432 + 0.00750ml of VP131988 + 0.00750ml of VP132006 + 0.00750ml of VP132036 + 0.00750ml of VP132098 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 287 | 50 PPB ICV, 8260-SOIL | VP132332 | 12/26/2024 | 12/27/2024 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/27/2024 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP129195 + 0.00250ml of VP130432 + 0.00250ml of VP131865 + 0.00250ml of VP131985 + 0.00250ml of VP132102 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP132333 | 12/26/2024 | 12/27/2024 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/27/2024 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP131988 + 0.00250ml of VP132006 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 773 | 50 PPB CCC, 8260-SOIL | VP132334 | 12/26/2024 | 12/27/2024 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/27/2024 |

**FROM** 4.98000ml of W3112 + 0.00250ml of VP130432 + 0.00250ml of VP131988 + 0.00250ml of VP132006 + 0.00250ml of VP132036 + 0.00250ml of VP132098 + 0.00500ml of VP131783 = Final Quantity: 5.000 ml

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 70046 / Bromochloromethane Std. sol/methanol 1000ppm | 070122 | 01/22/2025 | 07/22/2024 / SAM | 07/06/2022 / SAM | V12966 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30067 / BFB tuneing solution | A0191805 | 11/22/2025 | 11/22/2024 / SAM | 01/13/2023 / SAM | V13391 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM | A0181905 | 02/28/2025 | 11/26/2024 / SAM | 01/23/2023 / SAM | V13445 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30470 / VOA Stock Solution, tert-butanol std, 1mL, P&TM | A0191703 | 06/02/2025 | 12/02/2024 / SAM | 01/23/2023 / SAM | V13449 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025 | 12/12/2024 / SAM | 01/27/2023 / SAM | V13465 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30225 / VOA Mix, bromochloromethane, 2000ug/mL, P&TM, 1mL/ampul | A0193071 | 06/12/2025 | 12/12/2024 / SAM | 01/27/2023 / SAM | V13466 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95318 / 2-Chloroethyl Vinyl Ether (Min = 5) | 111722 | 11/17/2025 | 12/12/2024 / SAM | 01/30/2023 / SAM | V13582 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555582 / Custom Mixture, 8260 A/B Surrogate Mix [CS 5179-2] | A0196865 | 06/10/2025 | 06/10/2024 / SAM | 04/12/2023 / SAM | V13707 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0194279 | 03/16/2025 | 09/16/2024 / SAM | 05/31/2023 / SAM | V13806 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30042 / VOA Mix,500 series method 502.2 Calibration Std #1 gases, 2000uq/ml, PTM, 1ml | A0197644 | 04/14/2025 | 10/14/2024 / SAM | 05/31/2023 / SAM | V13820 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0193887 | 04/17/2025 | 10/17/2024 / SAM | 07/24/2023 / SAM | V13918 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 032922 | 03/29/2025 | 11/26/2024 / SAM | 11/22/2023 / SAM | V14020 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 032922 | 03/29/2025 | 11/26/2024 / SAM | 11/22/2023 / SAM | V14021 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0205177 | 03/04/2025 | 09/04/2024 / SAM | 12/22/2023 / SAM | V14096 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0205179 | 05/26/2025 | 11/26/2024 / SAM | 12/22/2023 / SAM | V14105 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555408 / Custom Standard, Vinyl Acetate Standard w/ Grav [CS 5066-6] TWO SEPARATE LOTS | A0205179 | 05/26/2025 | 11/26/2024 / SAM | 12/22/2023 / SAM | V14106 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95319 / Revised Additions Mix (Min = 5) | 011624 | 04/17/2025 | 10/17/2024 / SAM | 01/17/2024 / SAM | V14125 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 01/22/2025 | 07/22/2024 / SAM | 02/06/2024 / SAM | V14143 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 02/28/2025 | 08/29/2024 / SAM | 02/06/2024 / SAM | V14145 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 04/14/2025 | 10/14/2024 / SAM | 02/06/2024 / SAM | V14152 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 05/18/2025 | 11/18/2024 / pedro | 02/06/2024 / SAM | V14154 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 05/26/2025 | 11/26/2024 / SAM | 02/20/2024 / SAM | V14173 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021624 | 05/26/2025 | 11/26/2024 / SAM | 02/20/2024 / SAM | V14174 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 95317 / Universal VOA Mega Mix (Min order = 5) | 021524 | 04/17/2025 | 10/17/2024 / SAM | 02/20/2024 / SAM | V14178 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0200785 | 05/26/2025 | 11/26/2024 / SAM | 02/28/2024 / SAM | V14192 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0200785 | 05/26/2025 | 11/26/2024 / SAM | 02/28/2024 / SAM | V14194 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A0200785 | 05/26/2025 | 11/26/2024 / SAM | 02/28/2024 / SAM | V14201 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 555581 / Custom Standard, 8260 Internal Std [CS 5179-1] | A0210184 | 11/22/2025 | 11/22/2024 / SAM | 04/15/2024 / SAM | V14289 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0205013 | 06/02/2025 | 12/02/2024 / SAM | 08/15/2024 / SAM | V14424 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 05/26/2025 | 11/26/2024 / SAM | 08/15/2024 / SAM | V14434 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Restek | 30489 / VOA Mix, 8260B Acetates Mix, P&TM, 1mL | A0209618 | 05/26/2025 | 11/26/2024 / SAM | 08/15/2024 / SAM | V14437 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 05/26/2025 | 11/26/2024 / pedro | 08/16/2024 / SAM | V14461 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 22L0562016 | 06/10/2025 | 12/10/2024 / SAM | 11/26/2024 / SAM | V14614 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14630 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14631 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14632 |

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# CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | / 2-Chloroethyl vinyl ether | 120524 | 06/10/2025 | 12/10/2024 / SAM | 12/06/2024 / SAM | V14633 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 120524 | 01/05/2025 | 12/06/2024 / SAM | 12/06/2024 / SAM | V14650 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 120524 | 01/05/2025 | 12/06/2024 / SAM | 12/06/2024 / SAM | V14651 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 120524 | 01/05/2025 | 12/06/2024 / SAM | 12/06/2024 / SAM | V14652 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Seidler Chemical | DIW / DI Water | Daily Lab-Certified | 07/03/2029 | 07/03/2024 / Iwona | 07/03/2024 / Iwona | W3112 |

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Baxter

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis – Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James Ethier
Jamie Ethier
Vice President Global Quality

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

12

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com



## CERTIFIED WEIGHT REPORT

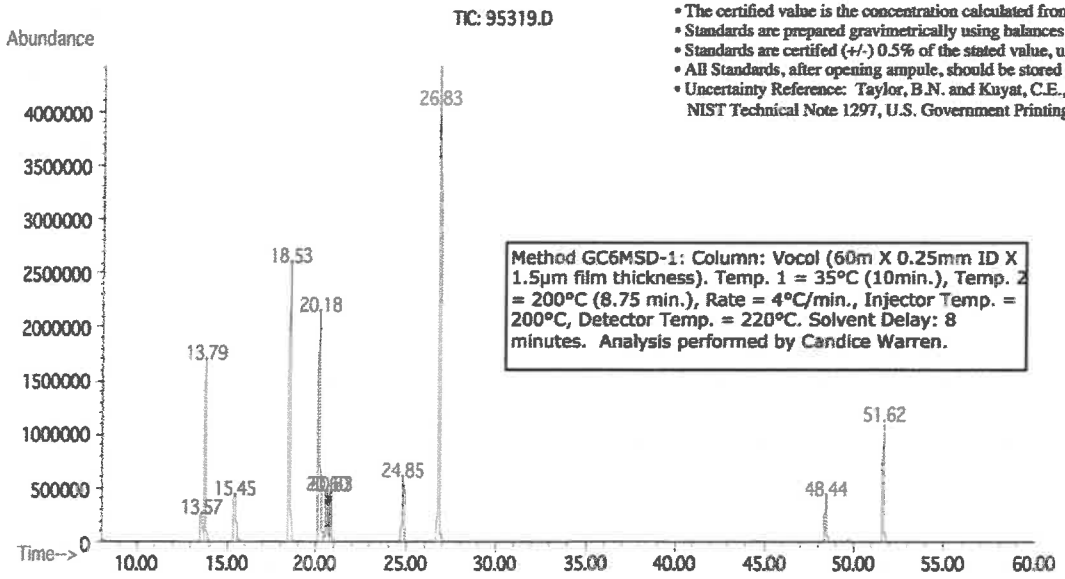
**Part Number:** 95319
**Lot Number:** 011624
**Description:** Revised Additions Mix
11 components
**Expiration Date:** 011627
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** Varied
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EH471-US

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

| Formulated By: | Prashant Chauhan | 011624 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 011624 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrylonitrile | 7 | 4718CK | 10000 | 99 | 0.2 | 1.01035 | 1.01080 | 10004.4 | 40.6 | 107-13-1 | N/A | ori-rat 78 mg/kg |
| 2. 1-Chlorobutane | 1072 | MKCM5711 | 2000 | 99.99 | 0.2 | 0.20007 | 0.20035 | 2002.8 | 8.1 | 109-69-3 | N/A | ori-rat 2670mg/kg |
| 3. Cyclohexane | 1023 | 28930 | 2000 | 99 | 0.2 | 0.20207 | 0.20222 | 2001.5 | 8.2 | 110-82-7 | 300 ppm (1050mg/m3/8H) | ori-rat 12705mg/kg |
| 4. Di-isopropyl ether (DIPE) | 987 | 00412MX | 2000 | 99 | 0.2 | 0.20207 | 0.20227 | 2002.0 | 8.2 | 108-20-3 | 500 ppm (2100mg/m3/8H) | ori-rat 8470mg/kg |
| 5. 1,4-Dioxane | 373 | 03853KE | 40000 | 99 | 0.2 | 4.04142 | 4.04213 | 40007.0 | 162.5 | 123-91-1 | 25 ppm (90mg/m3/8H)(skin) | ori-mus 5700mg/kg |
| 6. Hexachloroethane | 199 | 12604HBV | 2000 | 99 | 0.2 | 0.20207 | 0.20221 | 2001.4 | 8.2 | 67-72-1 | 1 ppm (10mg/m3/8H)(skin) | ori-gpg 4970mg/kg |
| 7. Methylcyclohexane | 1627 | SHBG0199V | 2000 | 99 | 0.2 | 0.20207 | 0.20230 | 2002.3 | 8.2 | 108-87-2 | N/A | ori-mus 2250mg/kg |
| 8. Methyl tert-butyl ether (MTBE) | 209 | 21880 | 2000 | 99 | 0.2 | 0.20207 | 0.20227 | 2002.0 | 8.2 | 1634-04-4 | N/A | ori-rat 4g/kg |
| 9. Propionitrile | 349 | 1395468 | 20000 | 99 | 0.2 | 2.02071 | 2.02150 | 20007.8 | 81.3 | 107-12-0 | N/A | ori-rat 39mg/kg |
| 10. Tetrahydrofuran | 380 | SHBH8330 | 10000 | 99.9 | 0.2 | 1.00125 | 1.00200 | 10007.5 | 40.3 | 109-99-9 | 20 ppm (590mg/m3/8H) | ori-rat 1650mg/kg |
| 11. 1,2,3,4-Tetramethylbenzene | 491 | AP01 | 2000 | 93 | 0.2 | 0.21511 | 0.21522 | 2001.0 | 8.7 | 488-23-3 | N/A | ori-rat 6408mg/kg |




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

| Name | MSD RT (min.) |
|---|---|
| Methyl tert-butyl ether (MTBE) | 13.56 |
| Acrylonitrile | 13.79 |
| Di-isopropyl ether | 15.44 |
| Propionitrile | 18.53 |
| Tetrahydrofuran | 20.17 |
| Cyclohexane | 20.58 |
| 1-Chlorobutane | 20.83 |
| Methylcyclohexane | 24.84 |
| 1,4-Dioxane | 26.84 |
| Hexachloroethane | 48.44 |
| 1,2,3,4-Tetramethylbenzene | 51.62 |

CERTIFIED WEIGHT REPORT

Part Number: 95317
Lot Number: 021524
Description: Universal VOA Megamix
69 components
Expiration Date: 021527
Recommended Storage: Freezer (0 °C)
Nominal Concentration (µg/mL): 2000
NIST Test ID#: 8UTB

Solvent(s): Methanol
Lot#: EG359-USQ12

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

Formulated By: Mario Luis 021524 DATE

Reviewed By: Pedro L. Rentas 021524 DATE

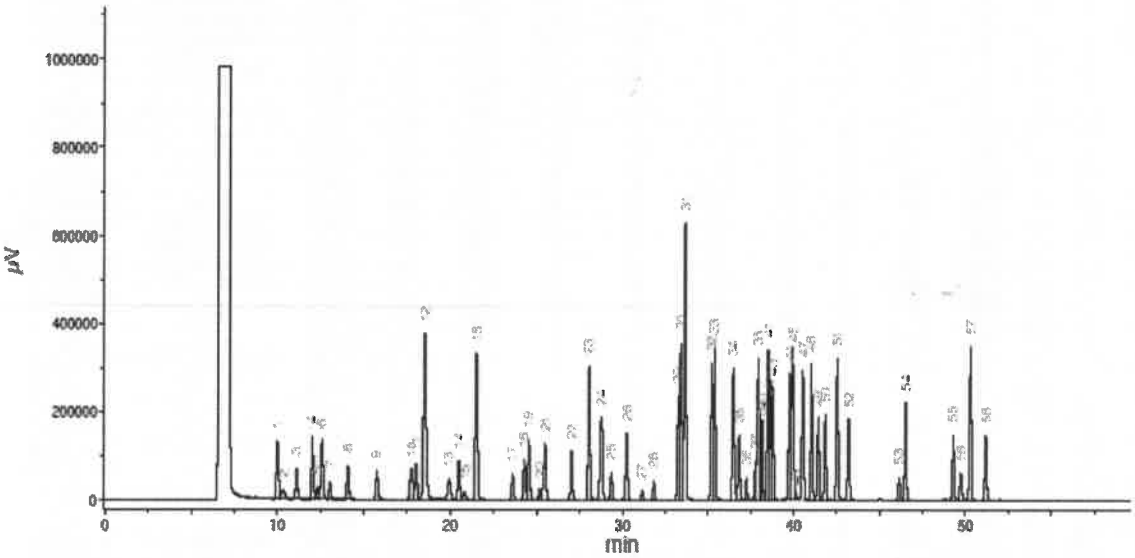
| | Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expended Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Acetonitrile | (0324) | 021644 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20022 | 2001.5 | 8.1 | 75-05-8 | 40 ppm (70mg/m3/8H) | orl-rat 2460mg/kg |
| 2. | Allyl chloride (3-Chloropropene) | (0325) | 102396 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20222 | 2001.5 | 8.2 | 107-05-1 | 1 ppm (3mg/m3/8H) | orl-rat 700mg/kg |
| 3. | Carbon disulphide | (0060) | MKCR8561 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20020 | 2001.3 | 8.1 | 75-15-0 | 4 ppm (12mg/m3) (skin) | orl-rat 1200mg/kg |
| 4. | cis-1,4-Dichloro-2-butene | (1196) | 14718EF | NA | NA | NA | 2000 | 95 | 0.2 | NA | 0.21058 | 0.21060 | 2000.2 | 8.5 | 1476-11-5 | N/A | N/A |
| 5. | trans-1,4-Dichloro-2-butene | (0486) | MKBP6041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20734 | 2000.3 | 8.4 | 110-57-6 | N/A | N/A |
| 6. | Diethyl ether | (0153) | IK18CAS000( | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20042 | 2001.7 | 8.1 | 60-29-7 | N/A | N/A |
| 7. | Ethyl methacrylate | (0381) | 06126PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20231 | 2002.4 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. | Iodomethane | (0489) | SHBF8718V | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20118 | 2001.2 | 8.1 | 74-88-4 | 5 ppm(28mg/m3/8H)(skin) | orl-rat 76mg/kg |
| 9. | 2-Methyl-1-propanol | (0445) | 15241EB | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20120 | 2001.4 | 8.1 | 78-83-1 | 50 ppm (150mg/m3/8H) | orl-rat 2460mg/kg |
| 10. | Methacrylonitrile | (0442) | 00427ET | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20209 | 2000.2 | 8.2 | 126-98-7 | 1 ppm (3mg/m3/8H)(skin) | orl-rat 120mg/kg |
| 11. | Methyl acrylate | (1075) | SHBK0679 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20042 | 2001.7 | 8.1 | 96-33-3 | 10 ppm(35mg/m3/8H)(skin) | orl-rat 277mg/kg |
| 12. | Methyl methacrylate | (0404) | MKBW5137V | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20030 | 2000.5 | 8.1 | 80-62-6 | 100 ppm (410mg/m3/8H) | orl-rat 7872mg/kg |
| 13. | Nitrobenzene | (0228) | 01213TV | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 98-95-3 | 1 ppm (5mg/m3/8H)(skin) | orl-rat 780mg/kg |
| 14. | 2-Nitropropane | (0461) | 14002JX | NA | NA | NA | 2000 | 97.3 | 0.2 | NA | 0.20560 | 0.20570 | 2001.0 | 8.3 | 79-46-9 | 10 ppm (35mg/m3/8H) | orl-rat 720mg/kg |
| 15. | Pentachloroethane | (0450) | HGA01 | NA | NA | NA | 2000 | 98 | 0.2 | NA | 0.20413 | 0.20415 | 2000.2 | 8.3 | 76-01-7 | N/A | N/A |
| 16. | 1,1,2-Trichlorotrifluoroethane | (0474) | 18930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20210 | 2000.3 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m3/8H) | orl-rat 43g/kg |
| 17. | Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. | Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. | cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. | trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. | Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. | 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. | Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. | Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. | Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. | Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. | 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. | 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 594-20-7 | N/A | N/A |
| 29. | Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 2019.6 | 20.6 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. | 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. | 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. | 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. | 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. | 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. | 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. | 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. | cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. | trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.6 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. | Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. | 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. | 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. | 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (45mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. | Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. | 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.8mg/kg |
| 45. | Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4894mg/kg |
| 46. | Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-86-1 | N/A | orl-rat 2699mg/kg |
| 47. | n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 48. | Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m3/8H) | orl-rat >2000mg/kg |
| 49. | p-Isopropyl toluene | 35162 | 050823 | 0.05 | 5.00 | 40005.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-87-6 | N/A | orl-rat 4750mg/kg |
| 50. | Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m3/8H) | orl-rat 490mg/kg |
| 51. | Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 52. | Toluene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 53. | 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 87-61-6 | N/A | ipr-mus 1260mg/kg |
| 54. | 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m3) | orl-rat 756mg/kg |
| 55. | 1,2,4-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40001.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. | 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. | m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-38-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |
| 58. | tert-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40001.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 98-06-6 | N/A | N/A |
| 59. | sec-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 135-98-8 | N/A | orl-rat 2240mg/kg |
| 60. | Chlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 108-90-7 | 75 ppm (350mg/m3/8H) | orl-rat 2290mg/kg |
| 61. | 2-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40000.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 95-49-8 | 50 ppm (250mg/m3/8H) | orl-rat 3900mg/kg |
| 62. | 4-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40003.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 106-43-4 | N/A | orl-rat 2100mg/kg |
| 63. | 1,2-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 95-50-1 | 50 ppm (300mg/m3) (CL) | orl-rat 500mg/kg |
| 64. | 1,3-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 541-73-1 | N/A | ipr-mus 1062mg/kg |
| 65. | 1,4-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 106-46-7 | 75 ppm (450mg/m3/8H) | orl-rat 500mg/kg |
| 66. | Isopropylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 98-82-8 | 50 ppm (245mg/m3/8H) | orl-rat 1400mg/kg |
| 67. | n-Propylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 23.0 | 103-65-1 | N/A | orl-rat 6040mg/kg |
| 68. | o-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40040.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.5 | 23.0 | 95-47-6 | 100 ppm (435mg/m3/8H) | ipr-mus 1364mg/kg |
| 69. | p-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40000.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Run 17, "P95317 L021524 [2000µg/mL in MeOH]"**

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 10:04:27 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

**Comments**
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3




| Peak # | Name | FID RT (min.) |
|---|---|---|
| 1 | Ether | 9.97 |
| 2 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethene | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.49 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 19.91 |
| 14 | 1,1-Dichloropropene | 20.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.48 |
| 17 | Trichloroethene | 23.58 |
| 18 | 1,2-Dichloropropane | 24.26 |
| 19 | Methyl methacrylate | 24.52 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.05 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.24 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.66 |
| 32 | o-Xylene | 33.22 |
| 33 | Styrene | 35.39 |
| 34 | Isopropylbenzene/Bromoform | 36.48 |
| 35 | cis-1,4-Dichloro-2-butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.92 |
| 39 | trans-1,4-Dichloro-2-butene | 38.05 |
| 40 | Bromobenzene | 38.14 |
| 41 | 1,3,5-Trimethylbenzene | 38.50 |
| 42 | 2-Chlorotoluene | 38.62 |
| 43 | 4-Chlorotoluene | 38.77 |
| 44 | tert-Butylbenzene | 39.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.42 |
| 50 | 1,4-Dichlorobenzene | 41.83 |
| 51 | n-Butylbenzene | 42.52 |
| 52 | 1,2-Dichlorobenzene | 43.10 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.48 |
| 55 | 1,2,4-Trichlorobenzene | 48.26 |
| 56 | Hexachlorobutadiene | 49.72 |
| 57 | Naphthalene | 50.26 |
| 58 | 1,2,3-Trichlorobenzene | 51.16 |

## CERTIFIED WEIGHT REPORT

**Part Number:** 95317
**Lot Number:** 021624
**Description:** Universal VOA Megamix
69 components
**Expiration Date:** 021627
**Recommended Storage:** Freezer (0 °C)
**Nominal Concentration (µg/mL):** 2000
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EG359-USQ12

| | | | |
|---|---|---|---|
| Formulated By: | Prashant Chauhan | 021624 | DATE |
| Reviewed By: | Pedro L. Rentas | 021624 | DATE |

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty

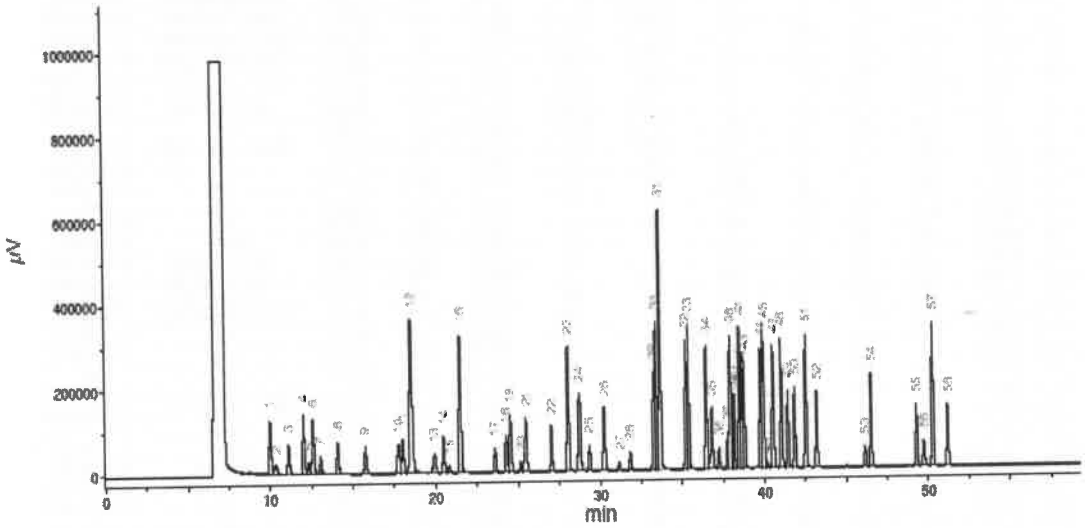
| | Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(µg/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | Acetonitrile | (0324) | 021644 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20020 | 2001.3 | 8.1 | 75-05-8 | 40 ppm (70mg/m3/8H) | orl-rat 2460mg/kg |
| 2. | Allyl chloride (3-Chloropropene) | (0325) | 102396 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 107-05-1 | 1 ppm (3mg/m3/8H) | orl-rat 700mg/kg |
| 3. | Carbon disulphide | (0060) | MKCR8561 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20023 | 2001.6 | 8.1 | 75-15-0 | 4 ppm (12mg/m3) (skin) | orl-rat 1200mg/kg |
| 4. | cis-1,4-Dichloro-2-butene | (1196) | 14718EF | NA | NA | NA | 2000 | 95 | 0.2 | NA | 0.21058 | 0.21069 | 2001.1 | 8.5 | 1476-11-5 | N/A | N/A |
| 5. | trans-1,4-Dichloro-2-butene | (0486) | MKBP6041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20748 | 2001.7 | 8.4 | 110-57-6 | N/A | N/A |
| 6. | Diethyl ether | (0153) | IK18CAS0000 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. | Ethyl methacrylate | (0381) | 06126PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. | Iodomethane | (0489) | SHBF8718V | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20121 | 2001.5 | 8.2 | 74-88-4 | 5 ppm(28mg/m3/8H)(skin) | orl-rat 76mg/kg |
| 9. | 2-Methyl-1-propanol | (0445) | 15241EB | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20120 | 2001.4 | 8.1 | 78-83-1 | 50 ppm (150mg/m3/8H) | orl-rat 2460mg/kg |
| 10. | Methacrylonitrile | (0442) | 00427ET | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 126-98-7 | 1 ppm (3mg/m3/8H)(skin) | orl-rat 120mg/kg |
| 11. | Methyl acrylate | (1075) | SHBK0679 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 96-33-3 | 10 ppm(35mg/m3/8H)(skin) | orl-rat 277mg/kg |
| 12. | Methyl methacrylate | (0404) | MKBW5137V | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20041 | 2001.6 | 8.1 | 80-62-6 | 100 ppm (410mg/m3/8H) | orl-rat 7872mg/kg |
| 13. | Nitrobenzene | (0228) | 01213TV | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20220 | 2001.3 | 8.2 | 98-95-3 | 1 ppm (5mg/m3/8H)(skin) | orl-rat 780mg/kg |
| 14. | 2-Nitropropane | (0461) | 14002JX | NA | NA | NA | 2000 | 97.3 | 0.2 | NA | 0.20560 | 0.20577 | 2001.6 | 8.3 | 79-46-9 | 10 ppm (35mg/m3/8H) | orl-rat 720mg/kg |
| 15. | Pentachloroethane | (0450) | HGA01 | NA | NA | NA | 2000 | 98 | 0.2 | NA | 0.20413 | 0.20430 | 2001.6 | 8.3 | 76-01-7 | N/A | N/A |
| 16. | 1,1,2-Trichlorotrifluoroethane | (0474) | 18930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20225 | 2001.8 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m3/8H) | orl-rat 43g/kg |
| 17. | Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. | Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. | cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. | trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. | Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. | 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. | Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. | Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. | Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. | Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. | 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. | 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 594-20-7 | N/A | N/A |
| 29. | Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 2019.6 | 20.6 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. | 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. | 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. | 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. | 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. | 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. | 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. | 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. | cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. | trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. | Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. | 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. | 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. | 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (46mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. | Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. | 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/kg |
| 45. | Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4894mg/kg |
| 46. | Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-86-1 | N/A | orl-rat 2699mg/kg |
| 47. | n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 48. | Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m3/8H) | orl-rat >2000mg/kg |
| 49. | p-Isopropyl toluene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-87-6 | N/A | orl-rat 4750mg/kg |
| 50. | Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m3/8H) | orl-rat 490mg/kg |
| 51. | Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 52. | Toluene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 53. | 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 87-61-6 | N/A | ipr-mus 1390mg/kg |
| 54. | 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m3) | orl-rat 756mg/kg |
| 55. | 1,2,4-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40001.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. | 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. | m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-38-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |
| 58. | tert-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40001.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 98-06-6 | N/A | N/A |
| 59. | sec-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 135-98-8 | N/A | orl-rat 2240mg/kg |
| 60. | Chlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 108-90-7 | 75 ppm (350mg/m3/8H) | orl-rat 2290mg/kg |
| 61. | 2-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40000.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 95-49-8 | 50 ppm (250mg/m3/8H) | orl-rat 3900mg/kg |
| 62. | 4-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40003.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 106-43-4 | N/A | orl-rat 2100mg/kg |
| 63. | 1,2-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 95-50-1 | 50 ppm (300mg/m3) (CL) | orl-rat 500mg/kg |
| 64. | 1,3-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 541-73-1 | N/A | ipr-mus 1062mg/kg |
| 65. | 1,4-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 106-46-7 | 75 ppm (450mg/m3/8H) | orl-rat 500mg/kg |
| 66. | Isopropylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 98-82-8 | 50 ppm (245mg/m3/8H) | orl-rat 1400mg/kg |
| 67. | n-Propylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 23.0 | 103-65-1 | N/A | orl-rat 6040mg/kg |
| 68. | o-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40040.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.5 | 23.0 | 95-47-6 | 100 ppm (435mg/m3/8H) | ipr-mus 1364mg/kg |
| 69. | p-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40000.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Run 16, "P95317 L021624 [2000µg/mL in MeOH]"**

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

**Comments**
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3




| Peak # | Name | FID RT (min.) |
|---|---|---|
| 1 | Ether | 9.97 |
| 2 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethene | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.46 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 19.91 |
| 14 | 1,1-Dichloropropene | 20.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.49 |
| 17 | Trichloroethene | 23.58 |
| 18 | 1,2-Dichloropropane | 24.28 |
| 19 | Methyl methacrylate | 24.52 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.05 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.24 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.86 |
| 32 | o-Xylene | 35.22 |
| 33 | Styrene | 35.38 |
| 34 | Isopropylbenzene/Bromoform | 36.18 |
| 35 | cis-1,4-Dichloro-2-Butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.93 |
| 39 | trans-1,4-Dichloro-2-Butene | 38.05 |
| 40 | Bromobenzene | 38.14 |
| 41 | 1,3,5-Trimethylbenzene | 38.80 |
| 42 | 2-Chlorotoluene | 38.82 |
| 43 | 4-Chlorotoluene | 38.77 |
| 44 | tert-Butylbenzene | 39.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.42 |
| 50 | 1,4-Dichlorobenzene | 41.83 |
| 51 | n-Butylbenzene | 42.53 |
| 52 | 1,2-Dichlorobenzene | 43.18 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.48 |
| 55 | 1,2,4-Trichlorobenzene | 49.26 |
| 56 | Hexachlorobutadiene | 49.72 |
| 57 | Naphthalene | 50.26 |
| 58 | 1,2,3-Trichlorobenzene | 51.16 |

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International | **1-352-323-3500** |
| | | Date Prepared/Revised | January 1, 2023 |

## Section II - Hazards Identification

**GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

## CERTIFIED WEIGHT REPORT

**Part Number:** 95317
**Lot Number:** 021624
**Description:** Universal VOA Megamix
69 components
**Expiration Date:** 021627
**Recommended Storage:** Freezer (0 °C)
**Nominal Concentration (µg/mL):** 2000
**NIST Test ID#:** 6UTB

**Solvent(s):** Methanol **Lot#** EG359-USQ12

Formulated By: Prashant Chauhan 021624 DATE

Reviewed By: Pedro L. Rentas 021624 DATE

Weight(s) shown below were combined and diluted to (mL): 100.0 0.021 Flask Uncertainty 5E-05 Balance Uncertainty

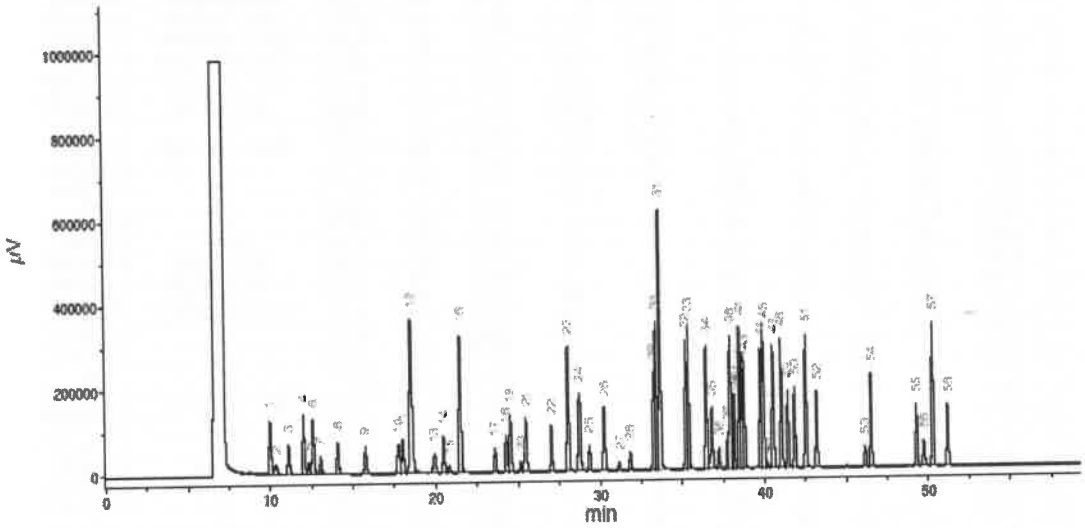
| Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(µg/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acetonitrile | (0324) | 021644 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20020 | 2001.3 | 8.1 | 75-05-8 | 40 ppm (70mg/m3/8H) | orl-rat 2460mg/kg |
| 2. Allyl chloride (3-Chloropropene) | (0325) | 102396 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 107-05-1 | 1 ppm (3mg/m3/8H) | orl-rat 700mg/kg |
| 3. Carbon disulphide | (0060) | MKCR8561 | NA | NA | NA | 2000 | 99.99 | 0.2 | NA | 0.20007 | 0.20023 | 2001.6 | 8.1 | 75-15-0 | 4 ppm (12mg/m3) (skin) | orl-rat 1200mg/kg |
| 4. cis-1,4-Dichloro-2-butene | (1196) | 14718EF | NA | NA | NA | 2000 | 95 | 0.2 | NA | 0.21058 | 0.21069 | 2001.1 | 8.5 | 1476-11-5 | N/A | N/A |
| 5. trans-1,4-Dichloro-2-butene | (0486) | MKBP6041V | NA | NA | NA | 2000 | 96.5 | 0.2 | NA | 0.20731 | 0.20748 | 2001.7 | 8.4 | 110-57-6 | N/A | N/A |
| 6. Diethyl ether | (0153) | IK18CAS0000 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 60-29-7 | N/A | N/A |
| 7. Ethyl methacrylate | (0361) | 06126PX | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20230 | 2002.3 | 8.2 | 97-63-2 | N/A | orl-rat 14800mg/kg |
| 8. Iodomethane | (0489) | SHBF8718V | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20121 | 2001.5 | 8.2 | 74-88-4 | 5 ppm(28mg/m3/8H)(skin) | orl-rat 76mg/kg |
| 9. 2-Methyl-1-propanol | (0445) | 15241EB | NA | NA | NA | 2000 | 99.5 | 0.2 | NA | 0.20106 | 0.20120 | 2001.4 | 8.1 | 78-83-1 | 50 ppm (150mg/m3/8H) | orl-rat 2460mg/kg |
| 10. Methacrylonitrile | (0442) | 00427ET | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20221 | 2001.4 | 8.2 | 126-98-7 | 1 ppm (3mg/m3/8H)(skin) | orl-rat 120mg/kg |
| 11. Methyl acrylate | (1075) | SHBK0679 | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20040 | 2001.5 | 8.1 | 96-33-3 | 10 ppm(35mg/m3/8H)(skin) | orl-rat 277mg/kg |
| 12. Methyl methacrylate | (0404) | MKBW5137V | NA | NA | NA | 2000 | 99.9 | 0.2 | NA | 0.20025 | 0.20041 | 2001.6 | 8.1 | 80-62-6 | 100 ppm (410mg/m3/8H) | orl-rat 7872mg/kg |
| 13. Nitrobenzene | (0228) | 01213TV | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20220 | 2001.3 | 8.2 | 98-95-3 | 1 ppm (5mg/m3/8H)(skin) | orl-rat 780mg/kg |
| 14. 2-Nitropropane | (0461) | 14002JX | NA | NA | NA | 2000 | 97.3 | 0.2 | NA | 0.20560 | 0.20577 | 2001.6 | 8.3 | 79-46-9 | 10 ppm (35mg/m3/8H) | orl-rat 720mg/kg |
| 15. Pentachloroethane | (0450) | HGA01 | NA | NA | NA | 2000 | 98 | 0.2 | NA | 0.20413 | 0.20430 | 2001.6 | 8.3 | 76-01-7 | N/A | N/A |
| 16. 1,1,2-Trichlorotrifluoroethane | (0474) | 18930 | NA | NA | NA | 2000 | 99 | 0.2 | NA | 0.20207 | 0.20225 | 2001.8 | 8.2 | 76-13-1 | 1000 ppm (7600mg/m3/8H) | orl-rat 43g/kg |
| 17. Bromodichloromethane | 35171 | 101623 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-27-4 | N/A | orl-rat 916mg/kg |
| 18. Dibromochloromethane | 35171 | 101623 | 0.05 | 5.00 | 40002.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 124-48-1 | N/A | orl-rat 848mg/kg |
| 19. cis-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 156-59-2 | N/A | N/A |
| 20. trans-1,2-Dichloroethene | 35171 | 101623 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 156-60-5 | N/A | orl-rat 1235mg/kg |
| 21. Methylene chloride | 35171 | 101623 | 0.05 | 5.00 | 40002.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 75-09-2 | 500 ppm | orl-rat 820mg/kg |
| 22. 1,1-Dichloroethene | 32251 | 102023 | 0.10 | 10.00 | 20001.6 | 2000 | NA | NA | 0.042 | NA | NA | 1999.7 | 20.4 | 75-35-4 | 1 ppm (4mg/m3/8H) | orl-rat 200mg/kg |
| 23. Bromoform | 95321 | 020724 | 0.10 | 10.00 | 20003.2 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-25-2 | 0.5 ppm (5mg/m3) (skin) | orl-rat 933mg/kg |
| 24. Carbon tetrachloride | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 56-23-5 | 2 ppm (12.6mg/m3/8H) | orl-rat 2350mg/kg |
| 25. Chloroform | 95321 | 020724 | 0.10 | 10.00 | 20024.0 | 2000 | NA | NA | 0.042 | NA | NA | 2001.9 | 20.5 | 67-66-3 | 50 ppm (240mg/m3) (CL) | orl-rat 908mg/kg |
| 26. Dibromomethane | 95321 | 020724 | 0.10 | 10.00 | 20002.9 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 74-95-3 | N/A | orl-rat 108mg/kg |
| 27. 1,1-Dichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 75-34-3 | 100 ppm | orl-rat 725mg/kg |
| 28. 2,2-Dichloropropane | 95321 | 020724 | 0.10 | 10.00 | 20003.4 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.4 | 594-20-7 | N/A | N/A |
| 29. Tetrachloroethene | 95321 | 020724 | 0.10 | 10.00 | 20201.1 | 2000 | NA | NA | 0.042 | NA | NA | 2019.6 | 20.6 | 127-18-4 | 25 ppm (170mg/m3/8H)(final) | orl-rat 2629mg/kg |
| 30. 1,1,1-Trichloroethane | 95321 | 020724 | 0.10 | 10.00 | 20003.0 | 2000 | NA | NA | 0.042 | NA | NA | 1999.8 | 20.5 | 71-55-6 | 350 ppm (1900mg/m3/8H) | orl-rat 10300mg/kg |
| 31. 1,2-Dibromo-3-chloropropane | 35161 | 112322 | 0.05 | 5.00 | 40016.5 | 2000 | NA | NA | 0.017 | NA | NA | 2000.3 | 22.9 | 96-12-8 | 0.001 ppm | orl-rat 170mg/kg |
| 32. 1,2-Dibromoethane | 35161 | 112322 | 0.05 | 5.00 | 40024.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.7 | 22.9 | 106-93-4 | 20 ppm (8H) | orl-rat 108mg/kg |
| 33. 1,2-Dichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40018.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 22.9 | 107-06-2 | 50 ppm (8H) | orl-rat 670mg/kg |
| 34. 1,2-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40051.0 | 2000 | NA | NA | 0.017 | NA | NA | 2002.0 | 22.9 | 78-87-5 | 75 ppm (350mg/m3/8H) | orl-rat 1947mg/kg |
| 35. 1,3-Dichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40005.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 142-28-9 | N/A | unr-mus 3600mg/kg |
| 36. 1,1-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40012.1 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 29.7 | 563-58-6 | N/A | N/A |
| 37. cis-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40010.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.0 | 23.0 | 10061-01-5 | N/A | N/A |
| 38. trans-1,3-Dichloropropene | 35161 | 112322 | 0.05 | 5.00 | 40017.8 | 2000 | NA | NA | 0.017 | NA | NA | 2000.4 | 23.0 | 10061-02-6 | N/A | N/A |
| 39. Hexachloro-1,3-butadiene | 35161 | 112322 | 0.05 | 5.00 | 40021.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.6 | 29.7 | 87-68-3 | 0.02 ppm (0.24mg/m3/8H) | orl-rat 82mg/kg |
| 40. 1,1,1,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40011.9 | 2000 | NA | NA | 0.017 | NA | NA | 2000.1 | 22.9 | 630-20-6 | N/A | orl-rat 670mg/kg |
| 41. 1,1,2,2-Tetrachloroethane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 79-34-5 | 5 ppm (35mg/m3/8H)(skin) | orl-rat 800mg/kg |
| 42. 1,1,2-Trichloroethane | 35161 | 112322 | 0.05 | 5.00 | 40006.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 23.0 | 79-00-5 | 10 ppm (46mg/m3/8H)(skin) | orl-rat 836mg/kg |
| 43. Trichloroethene | 35161 | 112322 | 0.05 | 5.00 | 40029.0 | 2000 | NA | NA | 0.017 | NA | NA | 2000.9 | 22.9 | 79-01-6 | 50 ppm (270mg/m3/8H) | orl-mus 2402mg/kg |
| 44. 1,2,3-Trichloropropane | 35161 | 112322 | 0.05 | 5.00 | 40007.5 | 2000 | NA | NA | 0.017 | NA | NA | 1999.9 | 22.9 | 96-18-4 | 10 ppm (60mg/m3/8H) | orl-rat 149.6mg/kg |
| 45. Benzene | 35162 | 050823 | 0.05 | 5.00 | 40005.0 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 71-43-2 | 1 ppm | orl-rat 4894mg/kg |
| 46. Bromobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.9 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-86-1 | N/A | orl-rat 2699mg/kg |
| 47. n-Butyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 104-51-8 | N/A | N/A |
| 48. Ethyl benzene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-41-4 | 100 ppm (435mg/m3/8H) | orl-rat >2000mg/kg |
| 49. p-Isopropyl toluene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 99-87-6 | N/A | orl-rat 4750mg/kg |
| 50. Naphthalene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 91-20-3 | 10 ppm (50mg/m3/8H) | orl-rat 490mg/kg |
| 51. Styrene | 35162 | 050823 | 0.05 | 5.00 | 40004.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 100-42-5 | 100 ppm | orl-rat 5000mg/kg |
| 52. Toluene | 35162 | 050823 | 0.05 | 5.00 | 40006.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-88-3 | 200 ppm | orl-rat 5000mg/kg |
| 53. 1,2,3-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40003.1 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 87-61-6 | N/A | ipr-mus 1390mg/kg |
| 54. 1,2,4-Trichlorobenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 120-82-1 | 5 ppm (CL) (40mg/m3) | orl-rat 756mg/kg |
| 55. 1,2,4-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40001.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 95-63-6 | N/A | orl-rat 5g/kg |
| 56. 1,3,5-Trimethylbenzene | 35162 | 050823 | 0.05 | 5.00 | 40006.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-67-8 | N/A | orl-rat 5000mg/kg |
| 57. m-Xylene | 35162 | 050823 | 0.05 | 5.00 | 40005.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.8 | 22.9 | 108-38-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |
| 58. tert-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40001.2 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 98-06-6 | N/A | N/A |
| 59. sec-Butyl benzene | 35163 | 101923 | 0.05 | 5.00 | 40002.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 135-98-8 | N/A | orl-rat 2240mg/kg |
| 60. Chlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 108-90-7 | 75 ppm (350mg/m3/8H) | orl-rat 2290mg/kg |
| 61. 2-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40000.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 95-49-8 | 50 ppm (250mg/m3/8H) | orl-rat 3900mg/kg |
| 62. 4-Chlorotoluene | 35163 | 101923 | 0.05 | 5.00 | 40003.3 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 106-43-4 | N/A | orl-rat 2100mg/kg |
| 63. 1,2-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 22.9 | 95-50-1 | 50 ppm (300mg/m3) (CL) | orl-rat 500mg/kg |
| 64. 1,3-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.7 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 23.0 | 541-73-1 | N/A | ipr-mus 1062mg/kg |
| 65. 1,4-Dichlorobenzene | 35163 | 101923 | 0.05 | 5.00 | 40001.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.6 | 22.9 | 106-46-7 | 75 ppm (450mg/m3/8H) | orl-rat 500mg/kg |
| 66. Isopropylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40000.8 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 98-82-8 | 50 ppm (245mg/m3/8H) | orl-rat 1400mg/kg |
| 67. n-Propylbenzene | 35163 | 101923 | 0.05 | 5.00 | 40003.4 | 2000 | NA | NA | 0.017 | NA | NA | 1999.7 | 23.0 | 103-65-1 | N/A | orl-rat 6040mg/kg |
| 68. o-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40040.8 | 2000 | NA | NA | 0.017 | NA | NA | 2001.5 | 23.0 | 95-47-6 | 100 ppm (435mg/m3/8H) | ipr-mus 1364mg/kg |
| 69. p-Xylene | 35163 | 101923 | 0.05 | 5.00 | 40000.6 | 2000 | NA | NA | 0.017 | NA | NA | 1999.5 | 22.9 | 106-42-3 | 100 ppm (435mg/m3/8H) | orl-rat 5g/kg |

- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening sample, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty References: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

**Run 16, "P95317 L021624 [2000µg/mL in MeOH]"**

Run Length: 60.00 min, 35998 points at 10 points/second.
Created: Sat, Feb 17, 2024 at 8:56:46 AM.
Sampled: Sequence "021624-GC5M1", Method "GC5-M1".
Analyzed using Method "GC5-M1".

**Comments**
GC5-M1 Analysis by Candice Warren
Column ID SPB-Vocol 105 meter X 0.53mm X 3.0µm film thickness
Flow rates: Total flow=290mL/min., Helium (carrier)=10mL/min.,
Helium(make-up)=10mL/min., Hydogen(make-up)=40mL/min., Air(make-up)=230mL/min.
Oven Profile: Temp. 1=35°C (Time 1=10 min.), Temp 2=200°C (Time 2=8.75 min.),
Rate = 4°C/min., Total run time=60 min. Injector temp.=200°C, FID Temp.=200°C.
FID Signal = Edaq Channel 1
Standard injection = 0.5µL, Range=3




| Peak # | Name | FID RT (min.) |
|---|---|---|
| 1 | Ether | 9.97 |
| 2 | 1,1,2-Trichloro-1,2,2-trifluoroethane | 10.33 |
| 3 | 1,1-Dichloroethene | 11.10 |
| 4 | Acetonitrile | 12.00 |
| 5 | Iodomethane | 12.31 |
| 6 | Allyl chloride | 12.56 |
| 7 | Carbon disulfide/Methylene chloride | 13.04 |
| 8 | trans-1,2-Dichloroethene | 14.07 |
| 9 | 1,1-Dichloroethane | 15.74 |
| 10 | 2,2-Dichloropropane | 17.74 |
| 11 | cis-1,2-Dichloroethene | 18.00 |
| 12 | Methacrylonitrile/Methyl acrylate/Chloroform | 18.46 |
| 13 | Isobutanol/1,1,1-Trichloroethane | 19.91 |
| 14 | 1,1-Dichloropropene | 20.46 |
| 15 | Carbon tetrachloride | 20.79 |
| 16 | Benzene/1,2-Dichloroethane | 21.49 |
| 17 | Trichloroethene | 23.58 |
| 18 | 1,2-Dichloropropane | 24.28 |
| 19 | Methyl methacrylate | 24.52 |
| 20 | Bromodichloromethane | 25.13 |
| 21 | Dibromomethane/2-Nitropropane | 25.46 |
| 22 | cis-1,3-Dichloropropene | 27.02 |
| 23 | Toluene | 28.05 |
| 24 | Ethyl methacrylate/trans-1,3-Dichloropropene | 28.73 |
| 25 | 1,1,2-Trichloroethane | 29.34 |
| 26 | Tetrachloroethene/1,3-Dichloropropane | 30.24 |
| 27 | Dibromochloromethane | 31.16 |
| 28 | 1,2-Dibromoethane | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.86 |
| 32 | o-Xylene | 35.22 |
| 33 | Styrene | 35.38 |
| 34 | Isopropylbenzene/Bromoform | 36.18 |
| 35 | cis-1,4-Dichloro-2-Butene | 36.80 |
| 36 | 1,1,2,2-Tetrachloroethane | 37.23 |
| 37 | 1,2,3-Trichloropropane | 37.77 |
| 38 | n-Propylbenzene | 37.93 |
| 39 | trans-1,4-Dichloro-2-Butene | 38.05 |
| 40 | Bromobenzene | 38.14 |
| 41 | 1,3,5-Trimethylbenzene | 38.80 |
| 42 | 2-Chlorotoluene | 38.82 |
| 43 | 4-Chlorotoluene | 38.77 |
| 44 | tert-Butylbenzene | 39.76 |
| 45 | 1,2,4-Trimethylbenzene | 39.91 |
| 46 | Pentachloroethane | 40.17 |
| 47 | sec-Butylbenzene | 40.52 |
| 48 | p-Isopropyltoluene | 41.02 |
| 49 | 1,3-Dichlorobenzene | 41.42 |
| 50 | 1,4-Dichlorobenzene | 41.83 |
| 51 | n-Butylbenzene | 42.53 |
| 52 | 1,2-Dichlorobenzene | 43.18 |
| 53 | 1,2-Dibromo-3-chloropropane | 46.12 |
| 54 | Nitrobenzene | 46.48 |
| 55 | 1,2,4-Trichlorobenzene | 49.26 |
| 56 | Hexachlorobutadiene | 49.72 |
| 57 | Naphthalene | 50.26 |
| 58 | 1,2,3-Trichlorobenzene | 51.16 |

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr. Hamden CT, 06514 | Emergency Telephone International | **1-352-323-3500** |
| | | Date Prepared/Revised | January 1, 2023 |

## Section II - Hazards Identification

**GHS Classification In accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

| | |
|---|---|
| **Part Number:** | 95319 |
| Lot Number: | 032922 |
| Description: | Revised Additions Mix |
| | 11 components |
| Expiration Date: | 032925 |
| Recommended Storage: | Refrigerate (4 °C) |
| Nominal Concentration (µg/mL): | Varied |
| NIST Test ID#: | 6UTB |

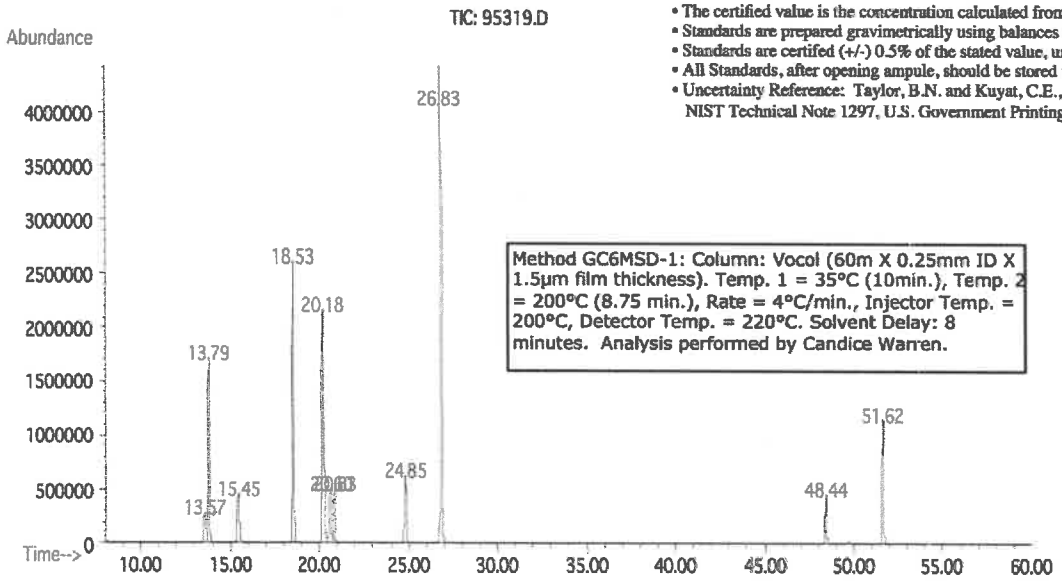
**Solvent(s):** Methanol **Lot#** EC592-US

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Prashant Chauhan | 032922 DATE |
| Reviewed By: | Pedro L. Rentas | 032922 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrylonitrile | 7 | 4718CK | 10000 | 99 | 0.2 | 1.01015 | 1.01030 | 10001.5 | 40.5 | 107-13-1 | N/A | orl-rat 78 mg/kg |
| 2. 1-Chlorobutane | 1072 | MKCM5711 | 2000 | 99.99 | 0.2 | 0.20003 | 0.20020 | 2001.7 | 8.1 | 109-69-3 | N/A | orl-rat 2670mg/kg |
| 3. Cyclohexane | 1023 | 28930 | 2000 | 99 | 0.2 | 0.20203 | 0.20215 | 2001.2 | 8.2 | 110-82-7 | 300 ppm (1050mg/m3/8H) | orl-rat 12705mg/kg |
| 4. Di-isopropyl ether (DIPE) | 987 | 00412MX | 2000 | 99 | 0.2 | 0.20203 | 0.20215 | 2001.2 | 8.2 | 108-20-3 | 500 ppm (2100mg/m3/8H) | orl-rat 8470mg/kg |
| 5. 1,4-Dioxane | 373 | 03853KE | 40000 | 99 | 0.2 | 4.04060 | 4.04100 | 40004.0 | 161.9 | 123-91-1 | 25 ppm (90mg/m3/8H)(skin) | orl-mus 5700mg/kg |
| 6. Hexachloroethane | 199 | 12604HBV | 2000 | 99 | 0.2 | 0.20203 | 0.20213 | 2001.0 | 8.2 | 67-72-1 | 1 ppm (10mg/m3/8H)(skin) | orl-gpg 4970mg/kg |
| 7. Methylcyclohexane | 1627 | 08046KN | 2000 | 99 | 0.2 | 0.20203 | 0.20215 | 2001.2 | 8.2 | 108-87-2 | N/A | N/A |
| 8. Methyl tert-butyl ether (MTBE) | 209 | 02197JJ | 2000 | 99.8 | 0.2 | 0.20041 | 0.20055 | 2001.4 | 8.1 | 1634-04-4 | N/A | orl-rat 4g/kg |
| 9. Propionitrile | 349 | 1395468 | 20000 | 99 | 0.2 | 2.02030 | 2.02045 | 20001.5 | 81.0 | 107-12-0 | N/A | orl-rat 39mg/kg |
| 10. Tetrahydrofuran | 380 | SHBH8330 | 10000 | 99.9 | 0.2 | 1.00105 | 1.00120 | 10001.5 | 40.1 | 109-99-9 | 20 ppm (590mg/m3/8H) | orl-rat 1650mg/kg |
| 11. 1,2,3,4-Tetramethylbenzene | 491 | AP01 | 2000 | 93 | 0.2 | 0.21506 | 0.21520 | 2001.3 | 8.7 | 488-23-3 | N/A | orl-rat 6408mg/kg |




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

| Name | MSD RT (min.) |
|---|---|
| Methyl tert-butyl ether (MTBE) | 13.56 |
| Acrylonitrile | 13.79 |
| Di-isopropyl ether | 15.44 |
| Propionitrile | 18.53 |
| Tetrahydrofuran | 20.17 |
| Cyclohexane | 20.58 |
| 1-Chlorobutane | 20.83 |
| Methylcyclohexane | 24.84 |
| 1,4-Dioxane | 26.84 |
| Hexachloroethane | 48.44 |
| 1,2,3,4-Tetramethylbenzene | 51.62 |

**Absolute Standards Inc.**

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2023 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components: | CAS#: | LD50 Oral - Rat | OSHA PEL | % (optional) |
|---|---|---|---|---|
| Methanol | 67-56-1 | 2,769 mg/kg | 200 ppm | > 99 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

**Absolute Standards Inc.**

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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*Certified Reference Material CRM*

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AR-1539 Certificate Number
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## CERTIFIED WEIGHT REPORT

| | |
|---|---|
| **Part Number:** | 95319 |
| **Lot Number:** | 032922 |
| **Description:** | Revised Additions Mix |
| | 11 components |
| **Expiration Date:** | 032925 |
| **Recommended Storage:** | Refrigerate (4 °C) |
| **Nominal Concentration (µg/mL):** | Varied |
| **NIST Test ID#:** | 6UTB |

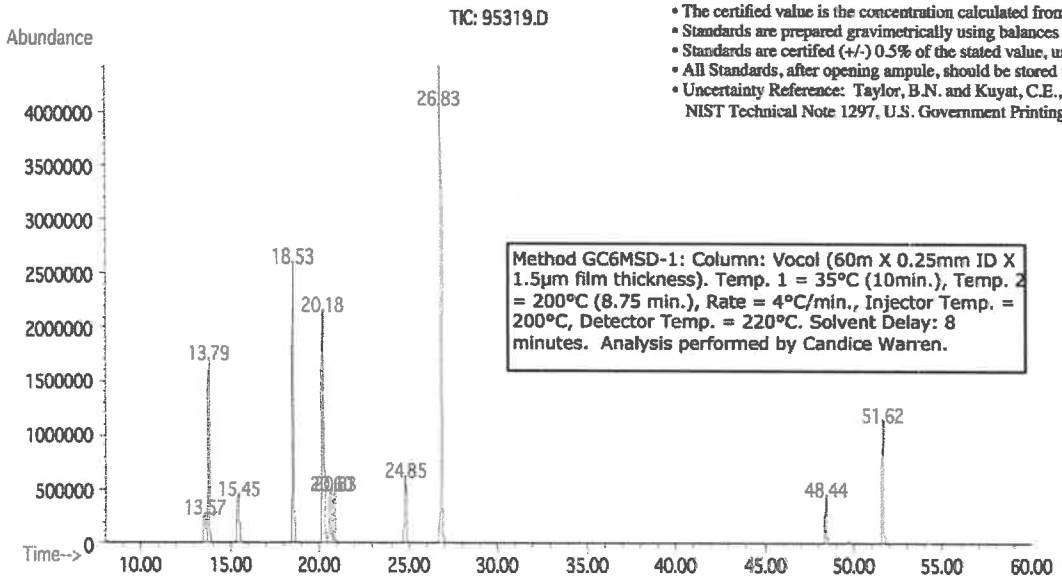
**Solvent(s):** Methanol **Lot#** EC592-US

5E-05 Balance Uncertainty

Weight(s) shown below were combined and diluted to (mL): 100.0 0.012 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Prashant Chauhan | 032922 DATE |
| Reviewed By: | Pedro L. Rentas | 032922 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrylonitrile | 7 | 4718CK | 10000 | 99 | 0.2 | 1.01015 | 1.01030 | 10001.5 | 40.5 | 107-13-1 | N/A | orl-rat 78 mg/kg |
| 2. 1-Chlorobutane | 1072 | MKCM5711 | 2000 | 99.99 | 0.2 | 0.20003 | 0.20020 | 2001.7 | 8.1 | 109-69-3 | N/A | orl-rat 2670mg/kg |
| 3. Cyclohexane | 1023 | 28930 | 2000 | 99 | 0.2 | 0.20203 | 0.20215 | 2001.2 | 8.2 | 110-82-7 | 300 ppm (1050mg/m3/8H) | orl-rat 12705mg/kg |
| 4. Di-isopropyl ether (DIPE) | 987 | 00412MX | 2000 | 99 | 0.2 | 0.20203 | 0.20215 | 2001.2 | 8.2 | 108-20-3 | 500 ppm (2100mg/m3/8H) | orl-rat 8470mg/kg |
| 5. 1,4-Dioxane | 373 | 03853KE | 40000 | 99 | 0.2 | 4.04060 | 4.04100 | 40004.0 | 161.9 | 123-91-1 | 25 ppm (90mg/m3/8H)(skin) | orl-mus 5700mg/kg |
| 6. Hexachloroethane | 199 | 12604HBV | 2000 | 99 | 0.2 | 0.20203 | 0.20213 | 2001.0 | 8.2 | 67-72-1 | 1 ppm (10mg/m3/8H)(skin) | orl-gpg 4970mg/kg |
| 7. Methylcyclohexane | 1627 | 08046KN | 2000 | 99 | 0.2 | 0.20203 | 0.20215 | 2001.2 | 8.2 | 108-87-2 | N/A | N/A |
| 8. Methyl tert-butyl ether (MTBE) | 209 | 02197JJ | 2000 | 99.8 | 0.2 | 0.20041 | 0.20055 | 2001.4 | 8.1 | 1634-04-4 | N/A | orl-rat 4g/kg |
| 9. Propionitrile | 349 | 1395468 | 20000 | 99 | 0.2 | 2.02030 | 2.02045 | 20001.5 | 81.0 | 107-12-0 | N/A | orl-rat 39mg/kg |
| 10. Tetrahydrofuran | 380 | SHBH8330 | 10000 | 99.9 | 0.2 | 1.00105 | 1.00120 | 10001.5 | 40.1 | 109-99-9 | 20 ppm (590mg/m3/8H) | orl-rat 1650mg/kg |
| 11. 1,2,3,4-Tetramethylbenzene | 491 | AP01 | 2000 | 93 | 0.2 | 0.21506 | 0.21520 | 2001.3 | 8.7 | 488-23-3 | N/A | orl-rat 6408mg/kg |




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Method GC6MSD-1: Column: Vocol (60m X 0.25mm ID X 1.5µm film thickness). Temp. 1 = 35°C (10min.), Temp. 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. Solvent Delay: 8 minutes. Analysis performed by Candice Warren.

| Name | MSD RT (min.) |
|---|---|
| Methyl tert-butyl ether (MTBE) | 13.56 |
| Acrylonitrile | 13.79 |
| Di-isopropyl ether | 15.44 |
| Propionitrile | 18.53 |
| Tetrahydrofuran | 20.17 |
| Cyclohexane | 20.58 |
| 1-Chlorobutane | 20.83 |
| Methylcyclohexane | 24.84 |
| 1,4-Dioxane | 26.84 |
| Hexachloroethane | 48.44 |
| 1,2,3,4-Tetramethylbenzene | 51.62 |

**Absolute Standards Inc.**

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Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2023 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components: | CAS#: | LD50 Oral - Rat | OSHA PEL | % (optional) |
|---|---|---|---|---|
| Methanol | 67-56-1 | 2,769 mg/kg | 200 ppm | > 99 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

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FAX: 203-281-2922

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability Stable under recommended storage conditions.
Possibility of hazardous reactions Vapours may form explosive mixture with air.
Conditions to avoid Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 111722
**Description:** 2-Chloroethyl vinyl ether

**Solvent(s):** Methanol **Lot#** EB679-US

**Expiration Date:** 111725
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

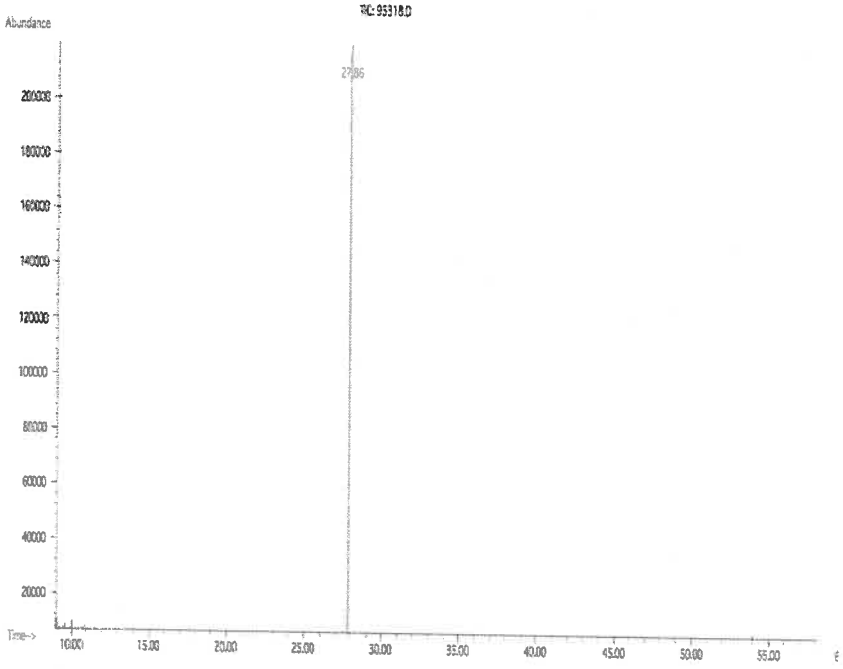
Weight(s) shown below were combined and diluted to (mL): 50.0

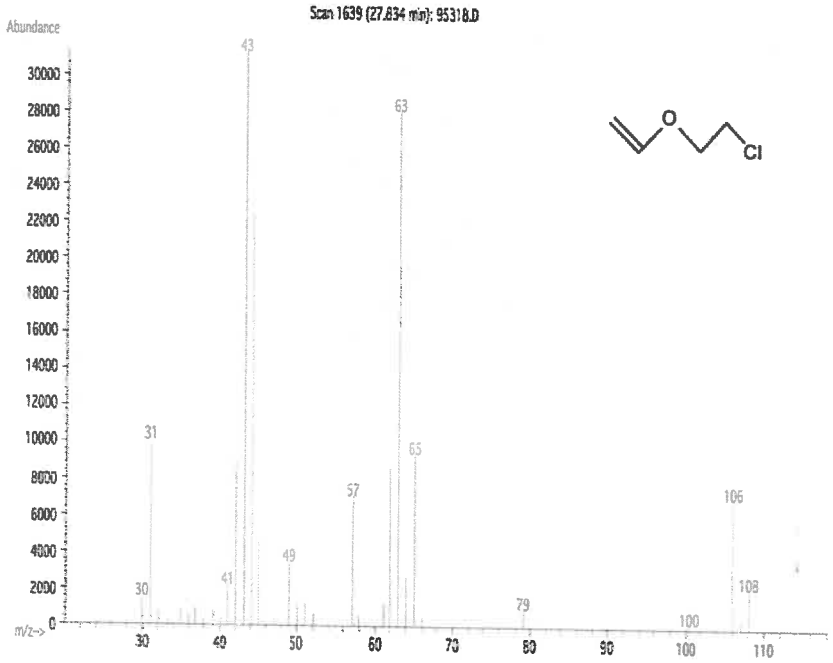
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

| | | |
|---|---|---|
| Formulated By: | Eli Aliaga | 111722 DATE |
| Reviewed By: | Pedro L. Rentas | 111722 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50541 | 0.50551 | 10001.9 | 40.5 | 110-75-8 | N/A | orl-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

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Rec 12/6/24
20 vial
V14630 to
V14649

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## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

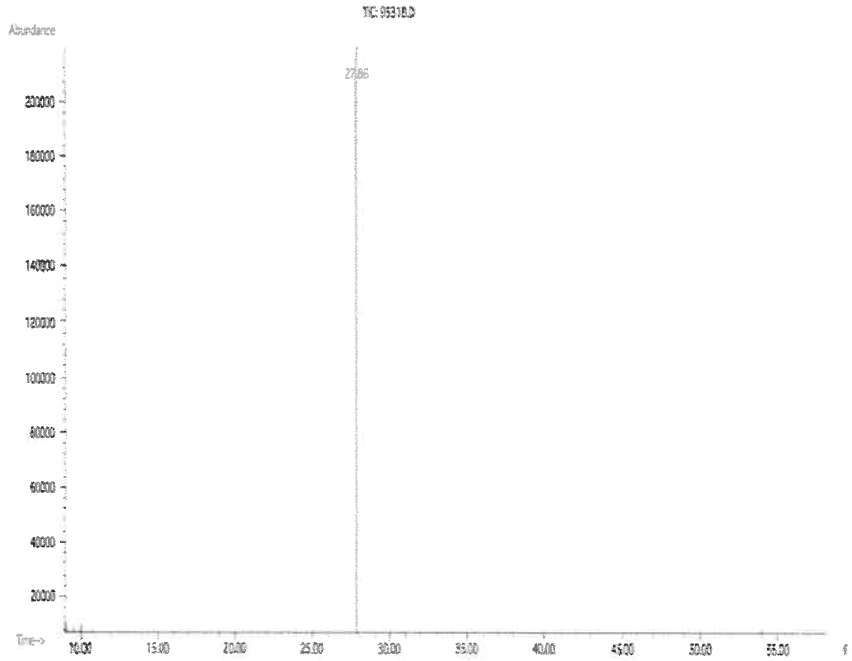
**Solvent(s):** Methanol **Lot#** EJ143-US

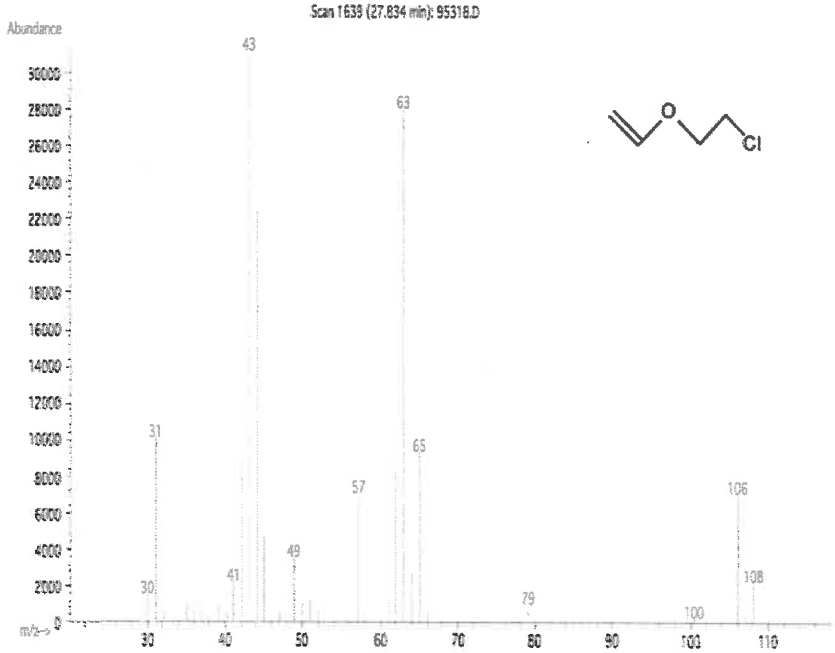
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| Formulated By: | Prashant Chauhan | 120524 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 120524 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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*Certified Reference Material CRM*

Exp 12/6/24
20 vial
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V14649

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## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Solvent(s):** Methanol **Lot#** EJ143-US

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

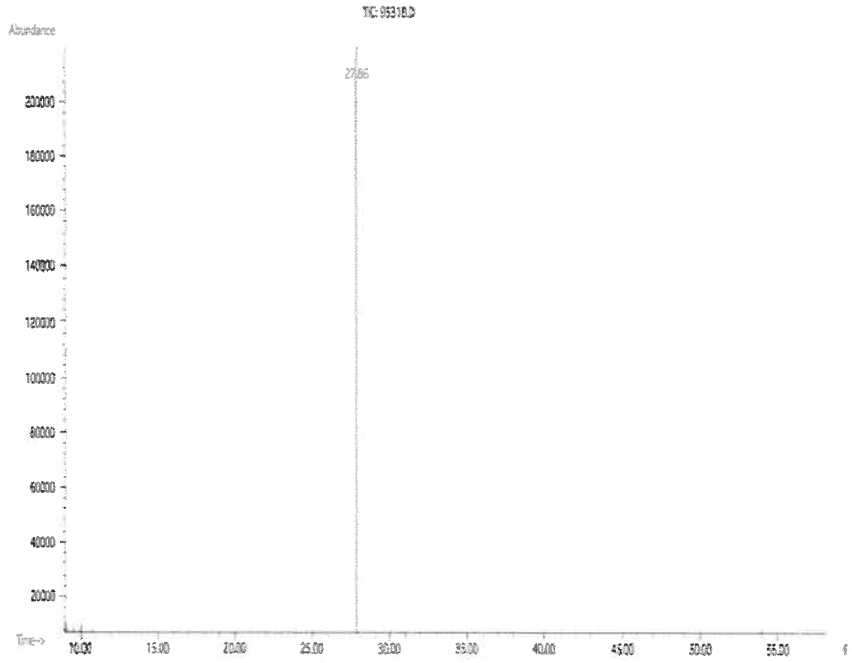
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

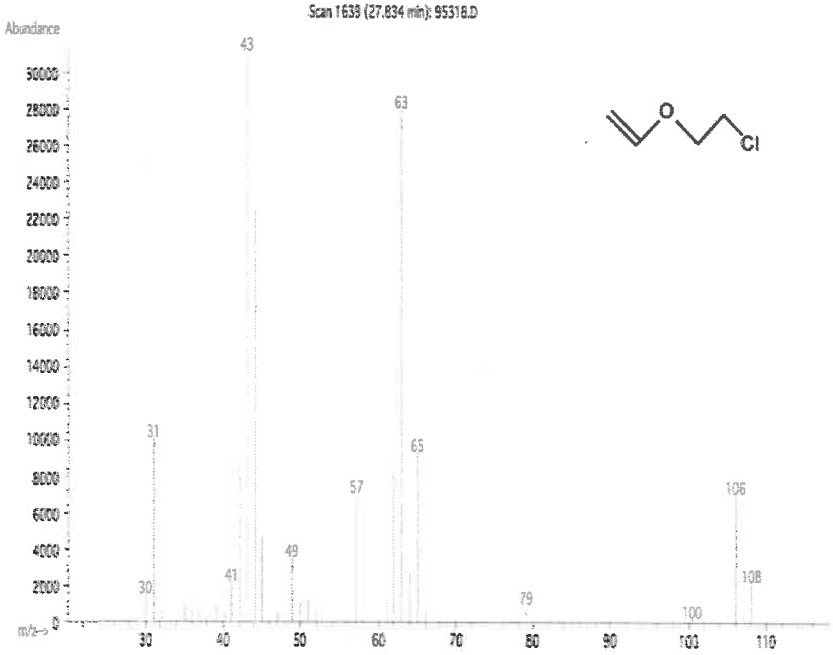
Weight(s) shown below were combined and diluted to (mL): 50.0

| | | |
|---|---|---|
| Prashant Chauhan | 120524 | |
| Formulated By: Prashant Chauhan | DATE | |
| Pedro L. Rentas | 120524 | |
| Reviewed By: Pedro L. Rentas | DATE | |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Absolute Standards Inc.
PO Box 5585
Hamden, CT 06518-0585
Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

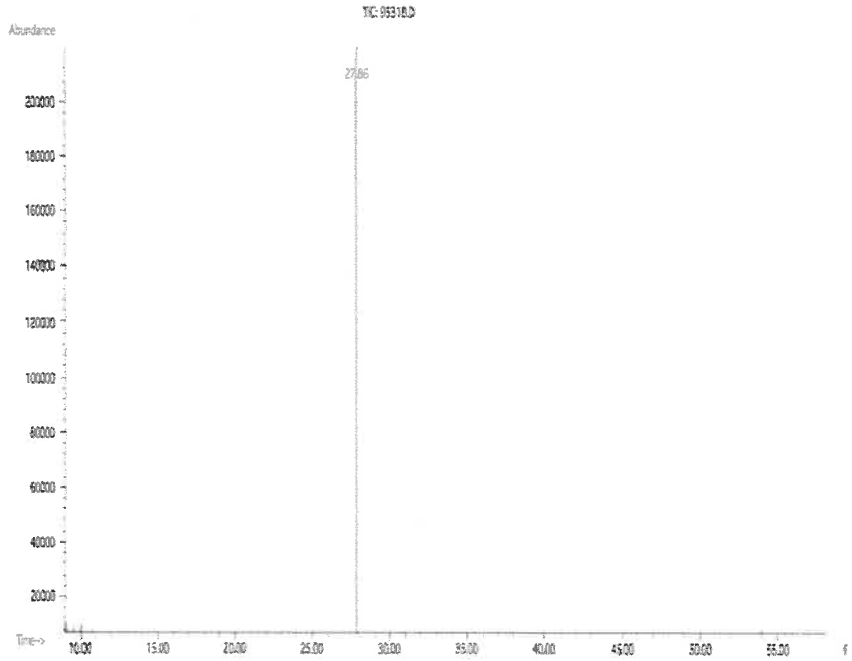
**Solvent(s):** Methanol **Lot#** EJ143-US

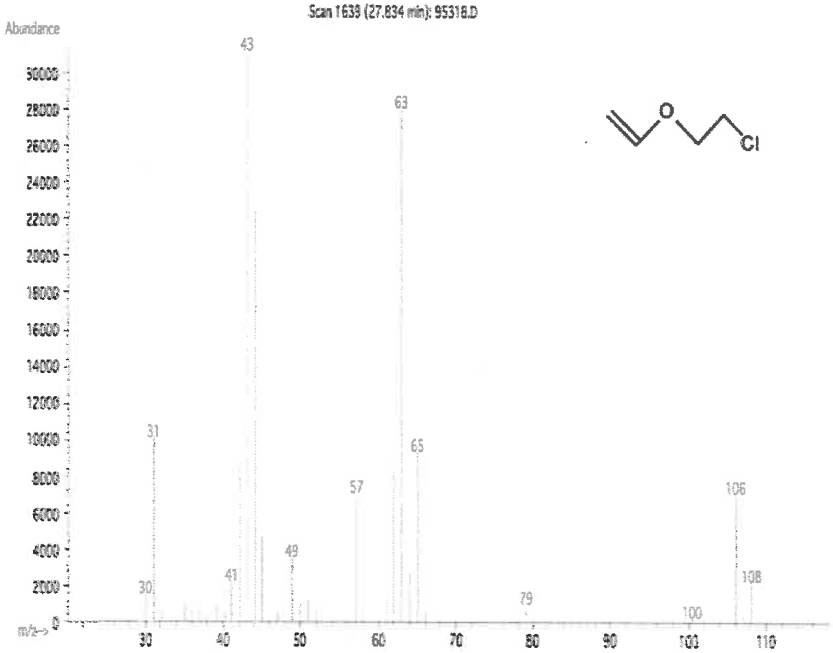
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| Formulated By: | Prashant Chauhan | 120524 DATE |
|---|---|---|
| Reviewed By: | Pedro L. Rentas | 120524 DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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**Safety Data Sheet (SDS)** GHS/OSHA Compliant

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| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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ANAB ISO 17034 Accredited
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https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 95318
**Lot Number:** 120524
**Description:** 2-Chloroethyl vinyl ether

**Expiration Date:** 120527
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 10000
**NIST Test ID#:** 6UTB

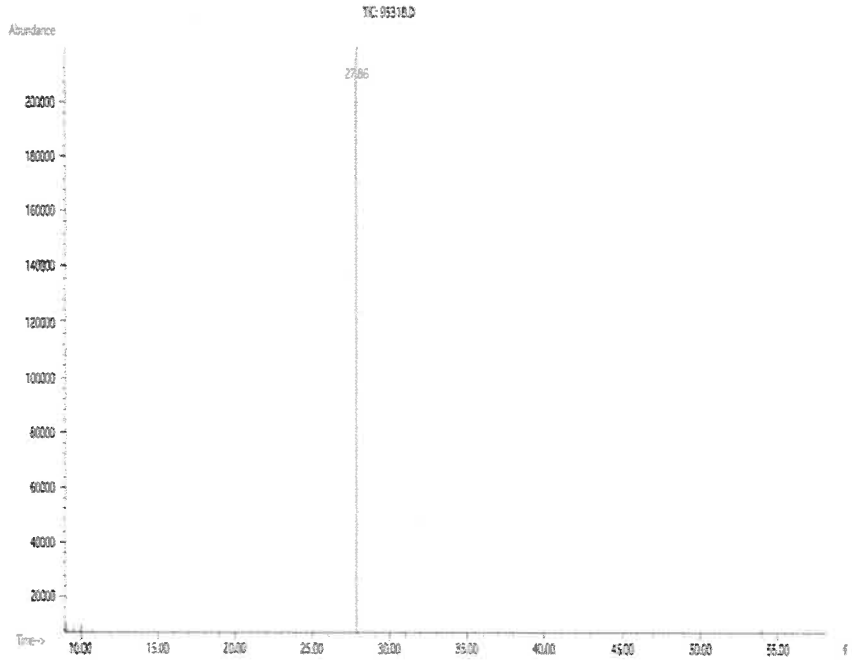
**Solvent(s):** Methanol **Lot#** EJ143-US

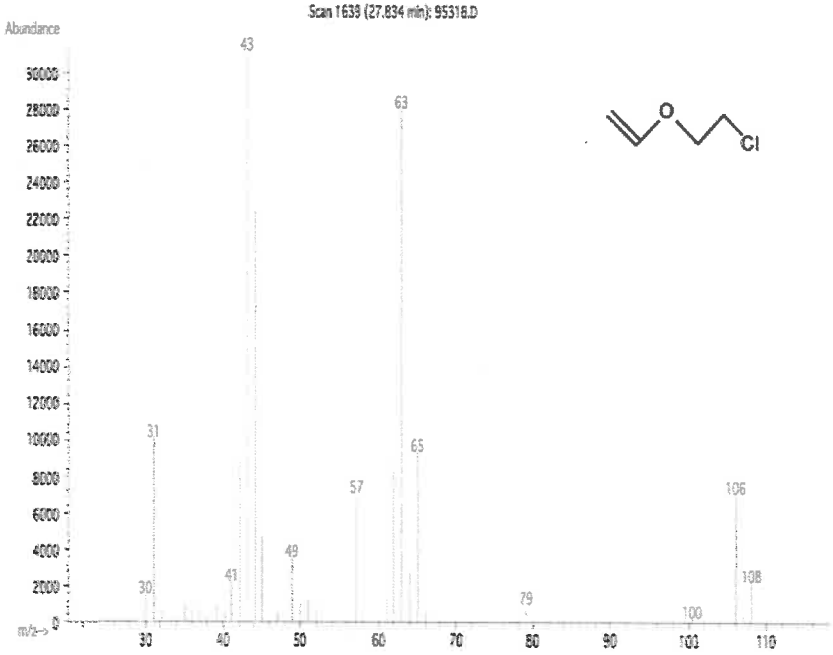
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| | | |
|---|---|---|
| Prashant Chauhan | 120524 |
| Formulated By: Prashant Chauhan | DATE |
| Pedro Rentas | 120524 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight (g) | Actual Weight (g) | Actual Conc(µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. 2-Chloroethyl vinyl ether | 74 | MKCD0033 | 10000 | 99 | 0.2 | 0.50536 | 0.50550 | 10002.9 | 40.5 | 110-75-8 | N/A | ori-rat 250mg/kg |

**Method:** GC6MSD-1.M. **Detector:** MSD. **Column:** (60m X 0.25mm X 1.5 µm). **Oven Profile:** Temp 1 = 35°C (Time 1=10min.), Temp 2 = 200°C (Time 2=8.75 min.), Rate = 4°C/min., Injector B Temp.= 200°C, Detector B Temp. = 220°C. **Analyst:** Candice Warren.







- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
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**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN METHANOL**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr.<br>Hamden CT, 06514 | Emergency Telephone International<br>Date Prepared/Revised | **1-352-323-3500**<br>January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **H225** | **Highly Flammable Liquid and Vapor** | **H301, 311, 331** | **Toxic if swallowed, skin contact, inhaled** |
| **H370** | **Cause damage to organs** | **H351** | **Suspected of causing cancer** |
| **P271** | **Use in ventilated area** | **P280** | **Use gloves, eye protection/face sheild** |
| **P302,332** | **If on skin, wash with soap and water** | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | | % (optional) |
|---|---|---|---|
| Methanol | METHYL ALCOHOL | CAS#: 67-56-1 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Flammability** | Flammable in the presence of a source of ignition when the temperature is above the flash point. Keep away from heat/sparks/open flame/hot surface. No smoking. |
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.<br>Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Methanol 67-56-1 TWA 200 ppm
Skin notation TWA 200 ppm
Potential for skin absorption , ingestion and inhalation.
Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - Physical/Chemical Characteristics

| | | | |
|---|---|---|---|
| Boiling Point | 65°C | Specific Gravity (H2O = 1) | 0.79 |
| Vapor Pressure (mm Hg) | 96 | Melting Point | -98°C |
| Vapor Density (AIR = 1) | 1.11 | Evaporation rate (Butyl Acetate = 1) | 4.6 |

Solubility in Water COMPLETE

Appearance and Odor CLEAR, COLORLESS LIQUID WITH CHARACTERISTIC PUNGENT ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — Vapours may form explosive mixture with air.
Conditions to avoid — Heat, flames, sparks, extreme temperature and sunlight.
Materials to avoid — Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids
Hazardous decomposition products formed under fire conditions. - Carbon oxides

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - rat - 5,628 mg/kg
LC50 Inhalation - rat - 4 h - 64000 ppm
LD50 Dermal - rabbit - 15,800 mg/kg
Toxic if absorbed through skin. Causes skin irritation.
Eye damage/eye irritation
Toxic if inhaled. Causes respiratory tract irritation.
Toxic if swallowed.

## Section XII. ECOLOGICAL INFORMATION FOR REPORTABLE QUANTITY OF 5000 lbs.

| | |
|---|---|
| LC50 | 15,400 mg/l - 96 h |
| EC50 | 24,500.00 mg/l - 48 h |
| EC100 | 10,000.00 mg/l - 24 h |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

IATA
UN number: 1230 Class: 3 Packing group: II
Proper shipping name: Methanol

## Section XV. REGULATORY INFORMATION

OSHA Hazards Flammable liquid, Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption, Irritant
SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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***Certified Reference Material CRM***

Rec 12/6/24
5 Vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 120524
Description: Acrolein

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** **Lot#**
Water 072324Q

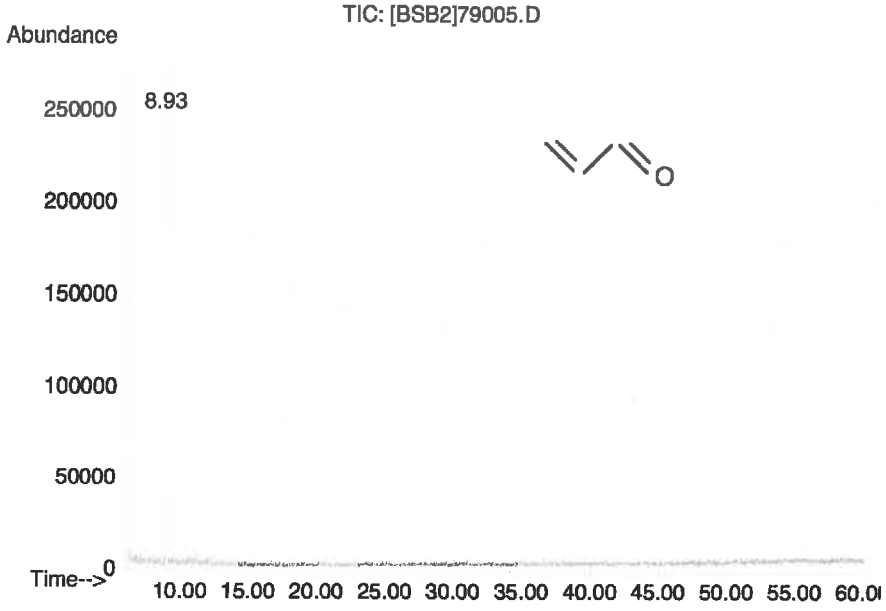
V14650-54

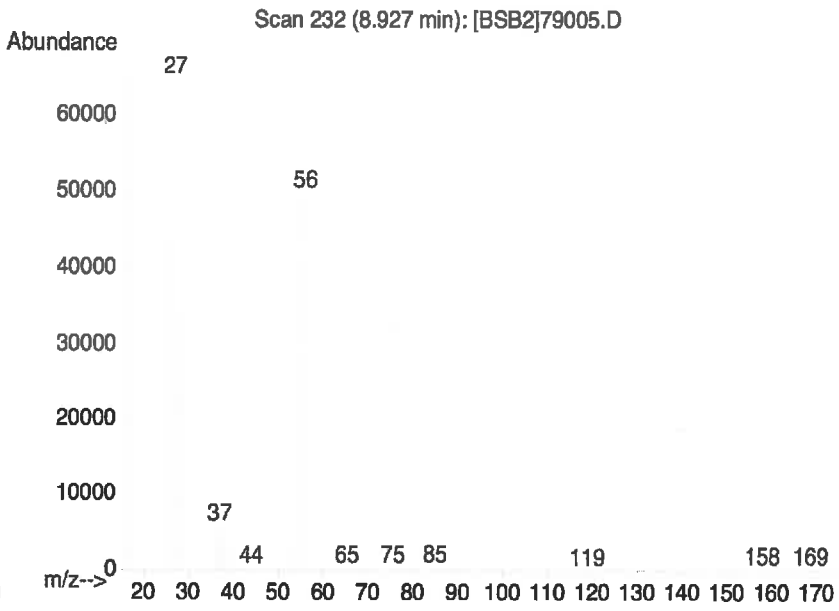
| | | |
|---|---|---|
| Prashant Chauhan | | 120524 |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | | 120524 |
| Reviewed By: | Pedro L. Rentas | DATE |

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755R02H | 5000 | 97 | 0.5 | 0.10307 | 0.10320 | 5006.1 | 51.8 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.). Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.




- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

**Absolute Standards Inc.**

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN WATER**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr. | Emergency Telephone International | **1-352-323-3500** |
| | Hamden CT, 06514 | Date Prepared/Revised | January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **P271** | **Use in ventilated area** | **H315** | **Causes skin and eye irritation.** |
| **P302,332** | **If on skin, wash with soap and water** | **P280** | **Use gloves, eye protection/face sheild** |
| | | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | % (optional) |
|---|---|---|
| Water | CAS#: 7732-18-5 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |
| **Hazardous Decomposition products** | Carbon oxides |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | |
|---|---|---|
| Water | CAS#: 7732-18-5 | TWA: 500 ppm |

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Point | 100°C | Specific Gravity (H2O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|---|---|---|---|
| | NA | | 0°C |
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | NA |

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

## Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

## Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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***Certified Reference Material CRM***

Rec 12/6/24
5 Vial

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https://Absolutestandards.com

CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 120524
Description: Acrolein

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** **Lot#**
Water 072324Q

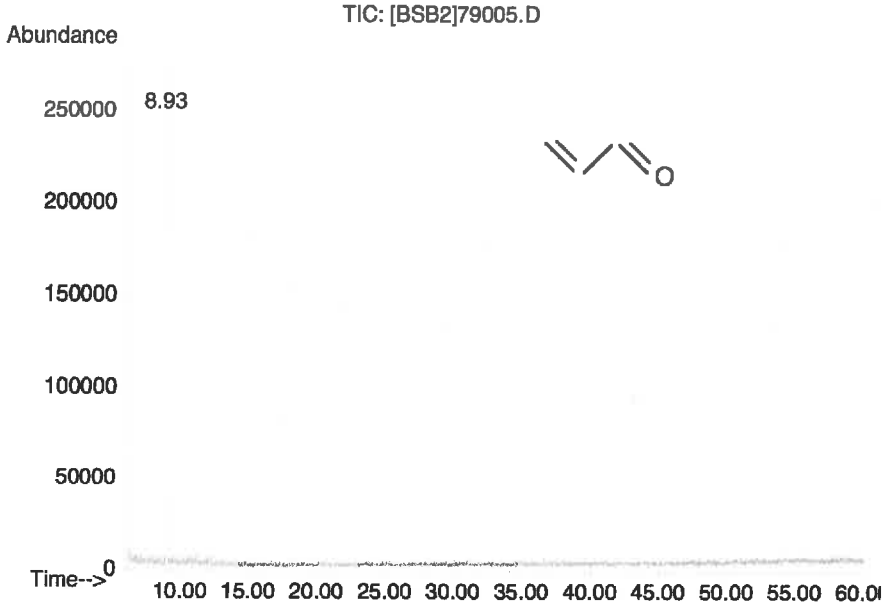
V14650-54

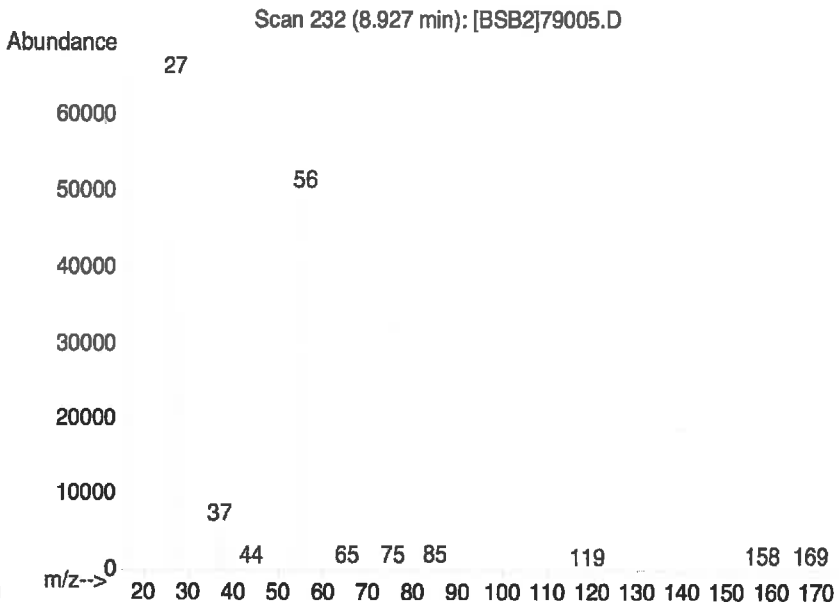
| | | |
|---|---|---|
| Prashant Chauhan | | 120524 |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | | 120524 |
| Reviewed By: | Pedro L. Rentas | DATE |

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755R02H | 5000 | 97 | 0.5 | 0.10307 | 0.10320 | 5006.1 | 51.8 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.

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- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

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**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

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| Address | 44 Rossotto Dr. | Emergency Telephone International | **1-352-323-3500** |
| | Hamden CT, 06514 | Date Prepared/Revised | January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **P271** | **Use in ventilated area** | **H315** | **Causes skin and eye irritation.** |
| **P302,332** | **If on skin, wash with soap and water** | **P280** | **Use gloves, eye protection/face sheild** |
| | | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | % (optional) |
|---|---|---|
| Water | CAS#: 7732-18-5 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |
| **Hazardous Decomposition products** | Carbon oxides |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

Water CAS#: 7732-18-5 TWA: 500 ppm

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Point | 100°C | Specific Gravity (H2O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|---|---|---|---|
| | NA | | 0°C |
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | NA |
| Solubility in Water | Completely miscible | | |
| Appearance and Odor | CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR. | | |

## Section X. STABILITY AND REACTIVITY

| | |
|---|---|
| Chemical stability | Stable under recommended storage conditions. |
| Possibility of hazardous reactions | NA |
| Conditions to avoid | NA |
| Materials to avoid | NA |

Hazardous decomposition products - No data available

## Section XI. TOXICOLOGICAL INFORMATION

| | |
|---|---|
| LD50 Oral - Rat | NA |
| LC50 Inhalation - Rat | NA |
| LD50 Dermal - Guinea pig | NA |

Causes skin irritation.
Eye irritation

## Section XII. ECOLOGICAL INFORMATION

| | |
|---|---|
| LC50 | NA |
| EC50 | NA |

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

## Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

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CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 120524
Description: Acrolein

Expiration Date: 010525
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** Water **Lot#** 072324Q

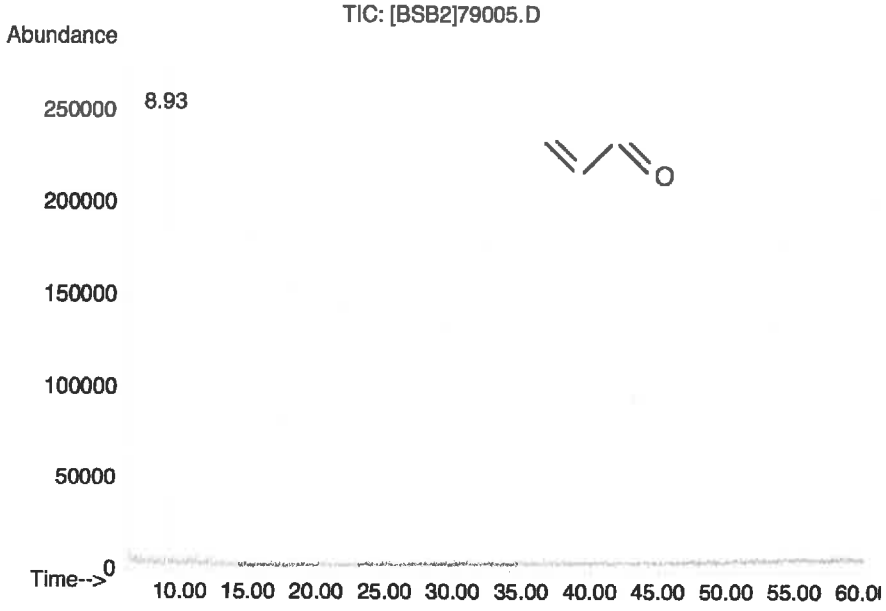
V14650-54

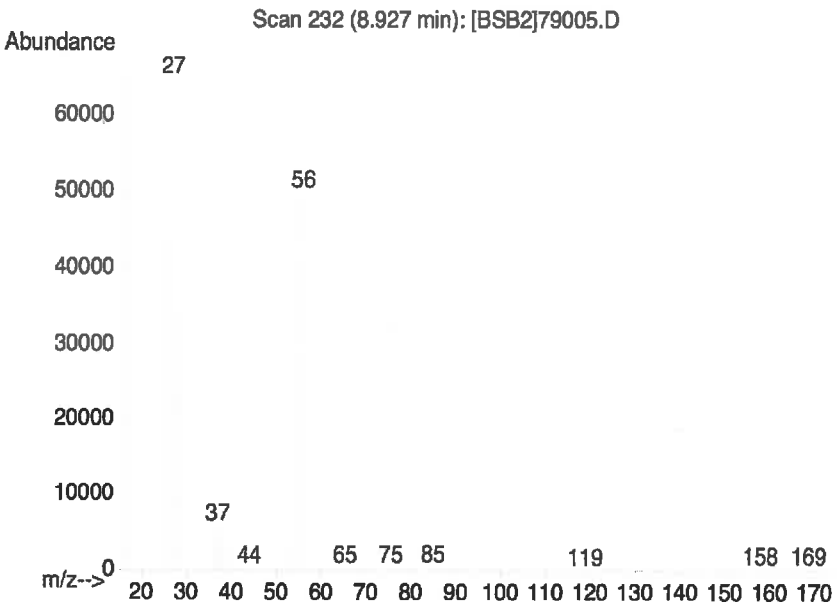
| | | |
|---|---|---|
| Prashant Chauhan | | 120524 |
| Formulated By: | Prashant Chauhan | DATE |
| Pedro Rentas | | 120524 |
| Reviewed By: | Pedro L. Rentas | DATE |

5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 20.0 0.002 Flask Uncertainty

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Acrolein | 5 | 103755R02H | 5000 | 97 | 0.5 | 0.10307 | 0.10320 | 5006.1 | 51.8 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

**Method:** GC6MSD-1. **Detector:** Mass Selective Detector (Scan mode). **Column:** Vocol (60m X 0.25mm ID X 1.5µm film thickness). **Oven Profile:** Temp. 1 = 35°C (Time 1 = 10min.), Temp. 2=200°C ( Time 2 = 8.75 min.) Rate = 4°C/min., Injector Temp. = 200°C, Detector Temp. = 220°C. **Analyst:** Pedro Rentas. **NOTE:** Due to the instability of acrolein in solution, all solutions of acrolein, and any dilutions thereof, should be used immediately. Long term storage is not recommended. Please contact our technical department if further information is required.




- **The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.**
- **Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).**
- **Standards are certified (+/-) 0.5% of the stated value, unless otherwise stated.**
- **All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.**
- **Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).**

**Absolute Standards Inc.**

PO Box 5585
Hamden, CT 06518-0585

Phone: 203-281-2917
FAX: 203-281-2922

**Safety Data Sheet (SDS)** GHS/OSHA Compliant

## Section I Product and Company Identification

**IDENTITY** **ANALYTICAL STANDARD DISSOLVED IN WATER**

| | | | |
|---|---|---|---|
| Manufacturer's Name | ABSOLUTE STANDARDS INC | Emergency Telephone USA & CANADA | **1-800-535-5053** |
| Address | 44 Rossotto Dr. | Emergency Telephone International | **1-352-323-3500** |
| | Hamden CT, 06514 | Date Prepared/Revised | January 1, 2024 |

## Section II - Hazards Identification

**GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)**

| | | | |
|---|---|---|---|
| **P271** | **Use in ventilated area** | **H315** | **Causes skin and eye irritation.** |
| **P302,332** | **If on skin, wash with soap and water** | **P280** | **Use gloves, eye protection/face sheild** |
| | | **P305,351,338** | **If in eyes, remove contacts, rinse with water** |

**Signal Word: DANGER**

## Section III - Composition

| Components (Specific Chemical Identity; Common Name(s)) | | % (optional) |
|---|---|---|
| Water | CAS#: 7732-18-5 | > 97 |

**See Certified Weight Report For Other Analytes Present At Trace Quantities.**

**INTENDED USE: REFERENCE MATERIAL**

## Section IV. FIRST AID MEASURES

| | |
|---|---|
| **General advice** | Consult a physician. Show this safety data sheet to the doctor in attendance.Move to safe area. |
| **If inhaled** | If inhaled, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. |
| **In case of skin contact** | Wash with soap and water. Consult a physician. |
| **In case of eye contact** | Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. |
| **If swallowed** | Do NOT induce vomiting. Rinse mouth with water. Consult a physician. |

## Section V. FIREFIGHTING MEASURES

| | |
|---|---|
| **Suitable extinguishing media** | Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. |
| **Protective equipment for fire** | Wear self contained breathing apparatus for fire fighting if necessary. |
| **Hazardous Decomposition products** | Carbon oxides |

## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
| Personal precautions | Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Vapours accumulate to form explosive concentrations. |
| Environmental precautions | Prevent further leakage or spillage if safe to do so. Do not let product enter drains. |
| Clean up | Contain spillage, and then collect and place in container for disposal according to local regulations (see section 13). |

## Section VII. HANDLING AND STORAGE

| | |
|---|---|
| Precautions for safe handling | Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Use ventilation Keep away from sources of ignition. No smoking. Prevent the build up of electrostatic charge. |
| Storage Conditions | Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |

## Section VIII. EXPOSURE CONTROLS/PERSONAL PROTECTION

| | | |
|---|---|---|
| Water | CAS#: 7732-18-5 | TWA: 500 ppm |

Personal protective equipment Respiratory protection Handle with gloves. Gloves must be inspected prior to use. Eye protection.
Avoid contact with skin, eyes and clothing. Wash hands thoroughly after handling the product.

## Section IX - PHYSICAL/CHEMICAL CHARACTERISTICS

| | | | |
|---|---|---|---|
| Boiling Point | 100°C | Specific Gravity (H2O = 1) | 1 |
| Vapor Pressure (mm Hg) | | Melting Point | |

| | | | |
|---|---|---|---|
| | NA | | 0°C |
| Vapor Density (AIR = 1) | NA | Evaporation rate (Butyl Acetate = 1) | NA |

Solubility in Water — Completely miscible

Appearance and Odor — CLEAR, COLORLESS LIQUID WITH SLIGHT CHEMICAL ODOR.

## Section X. STABILITY AND REACTIVITY

Chemical stability — Stable under recommended storage conditions.
Possibility of hazardous reactions — NA
Conditions to avoid — NA
Materials to avoid — NA
Hazardous decomposition products - No data available

## Section XI. TOXICOLOGICAL INFORMATION

LD50 Oral - Rat — NA
LC50 Inhalation - Rat — NA
LD50 Dermal - Guinea pig — NA
Causes skin irritation.
Eye irritation

## Section XII. ECOLOGICAL INFORMATION

LC50 — NA
EC50 — NA

## Section XIII. DISPOSAL CONSIDERATIONS

Dispose with normal Laboratory Solvent Waste.

## Section XIV. TRANSPORT INFORMATION

DOT (US)
Not dangerous goods
Proper shipping name: Water

IATA
Not dangerous goods
Proper shipping name: Water

## Section XV. REGULATORY INFORMATION

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

## Section XVI. Misc. INFORMATION

The information in this Material Safety Data Sheet meets the requirements of the United States Occupational Safety and Health Act and regulations promulgated thereunder (29 CFR 1910.1200 et. seq.) and Global Harmonized System (GHS). This document is intended only as a guide to the appropriate precautionary handling of the material by trained personnel, or supervised by a person trained in chemical handling. The user is responsible for determining the precautions and dangers of this chemical for his or her particular application. Depending on usage, protective clothing including eye and face guards and respirators must be used to avoid contact with material or breathing chemical vapors/fumes. Exposure to this product may have serious adverse health effects. This chemical may interact with other substances. Since the potential uses are so varied, ABSOLUTE STANDARDS INC. cannot warn of all the potential dangers of use or interaction with other chemicals or substances. ABSOLUTE STANDARDS INC. warrants that the chemical meets the specifications set forth on the label. ABSOLUTE STANDARDS INC DISCLAIMS ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED WITH REGARD TO THE PRODUCT SUPPLIED HEREUNDER, ITS MERCHANTABILITY OR ITS FITNESS FOR A PARTICULAR APPLICATION. The user should recognize that this product can cause severe injury or death, especially if improperly handled or the known dangers of use are not heeded. READ ALL PRECAUTIONARY INFORMATION. As new documented general safety information becomes available, Absolute Standards Inc. will periodically revise this Material Safety Data Sheet. If you have any questions, please call Technical Service at 1-203-281-2917 for assistance.

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 2310762004
Manufactured Date: 2023-08-11
Expiration Date: 2026-08-10
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.5 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.01 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis - Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

Ken Koehnlein
Sr. Manager, Quality Assurance

RESTEK®
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Bellefonte, PA 16823-8812
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# CERTIFIED REFERENCE MATERIAL

## Certificate of Analysis

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30470 **Lot No.:** A0181905

**Description :** tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** February 28, 2025 **Storage:** 0°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | tert-Butanol (TBA) | 50,126.0 µg/mL | +/- 293.4988 µg/mL | Gravimetric |
| | **CAS #** 75-65-0 (Lot SHBM7694) | | +/- 1,073.7654 µg/mL | Unstressed |
| | **Purity** 99% | | +/- 1,104.9494 µg/mL | Stressed |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

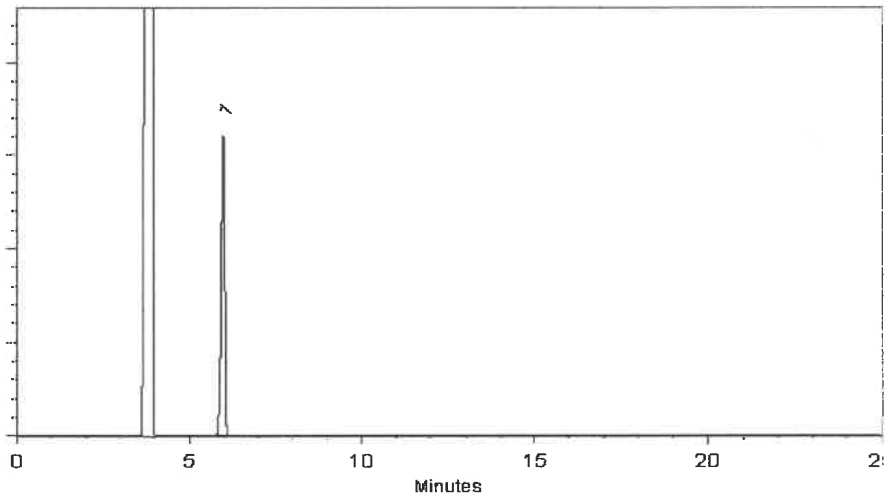
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

John Friedline - Operations Technician I

**Date Mixed:** 16-Feb-2022 **Balance:** B442140311

Marlina Cowan - Operations Tech I

**Date Passed:** 21-Feb-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

**General Certified Reference Material Notes**

**Expiration Notes:**

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

**Purity Notes:**

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

**Certified Uncertainty Value Notes:**

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---|---|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

**Manufacturing Notes:**

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

**Handling Notes:**

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

4 J

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# CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30470 **Lot No.:** A0191703

**Description :** tert-Butanol Standard

tert-Butanol Std 50,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2025 **Storage:** 0°C or colder

**Ship:** Ambient

## CERTIFIED VALUES

| Elution Order | Compound | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2) | |
|---|---|---|---|---|
| 1 | tert-Butanol (TBA) | 50,122.0 µg/mL | +/- 293.4753 µg/mL | Gravimetric |
| | **CAS #** 75-65-0 (Lot 101619K21F-1) | | +/- 1,073.6797 µg/mL | Unstressed |
| | **Purity** 99% | | +/- 1,104.8612 µg/mL | Stressed |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

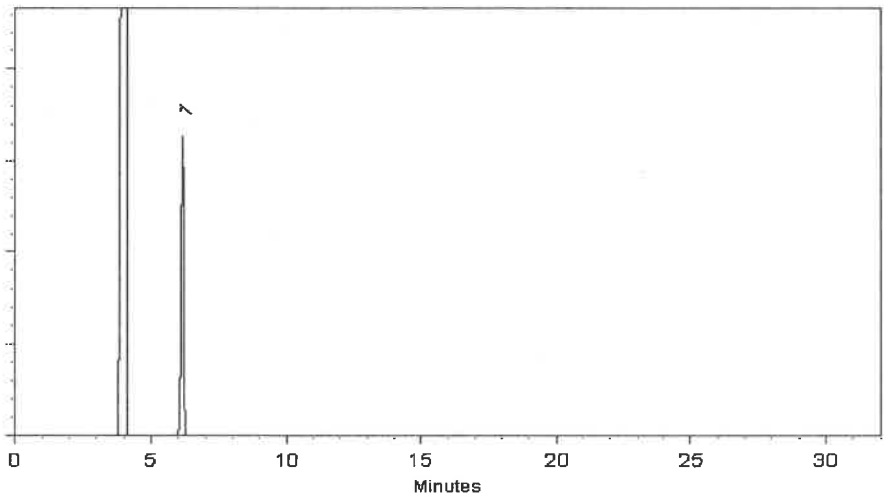
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

**Date Mixed:** 15-Nov-2022 **Balance:** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 17-Nov-2022

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

**General Certified Reference Material Notes**

**Expiration Notes:**

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

**Purity Notes:**

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

**Certified Uncertainty Value Notes:**

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified combined stressed uncertainty value ( includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ stressed} = k\sqrt{U^2_{gravimetric} + U^2_{homogeneity} + U^2_{storage\ stability} + U^2_{shipping\ stability}}$$

*k* is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- It is important to note that the shipping stability uncertainty was obtained under temperature extremes for specific time intervals; therefore, the certified combined stressed uncertainty value should only be applied to the product if it was stored at non-standard temperature conditions up to and including 7 days. Contact Restek Technical Service at www.restek.com/Contact-Us for use recommendations if your shipment was in-transit for more than 7 days at non-standard temperature conditions.
- Apply the certified combined unstressed uncertainty value if the product was received under standard shipping conditions. Apply the certified combined stressed uncertainty value if the product was received under non-standard conditions as specified below.

| Label Conditions | Standard Conditions | Non-Standard Conditions |
|---|---|---|
| 25°C Nominal (Room Temperature) | < 60°C | ≥ 60°C up to 7 days |
| 10°C or colder (Refrigerate) | < 40°C | ≥ 40°C up to 7 days |
| 0°C or colder (Freezer)<br>-20°C or colder (Deep Freezer) | < 25°C | ≥ 25°C up to 7 days |

- Separate (not combined) uncertainty values for gravimetric uncertainty are also displayed on the certificate, if needed, separate homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty values are available by contacting Restek Technical Service at www.restek.com/Contact-Us.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampules are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

**Manufacturing Notes:**

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

**Handling Notes:**

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampules. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30067 **Lot No.:** A0191805

**Description :** 4-Bromofluorobenzene Standard

4-Bromofluorobenzene Standard 2,500µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 184975 | 99% | 2,483.9 µg/mL | +/- 139.5488 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

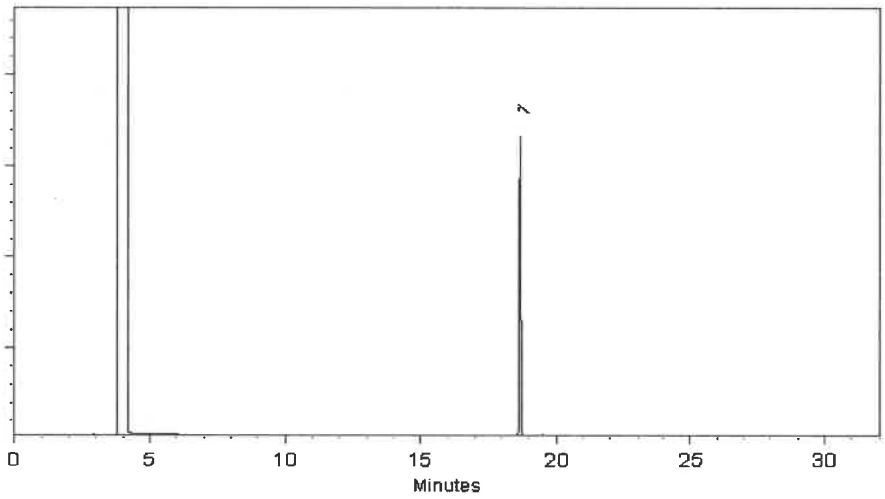
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Alicia Leathers - Operation Technician I

**Date Mixed:** 17-Nov-2022 **Balance Serial #** B251644995

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 21-Nov-2022

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED
ISO 17034 Accredited
Reference Material Producer
Certificate #3222.01

ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | 00008541 | 99% | 2,018.0 µg/mL | +/- 113.3890 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

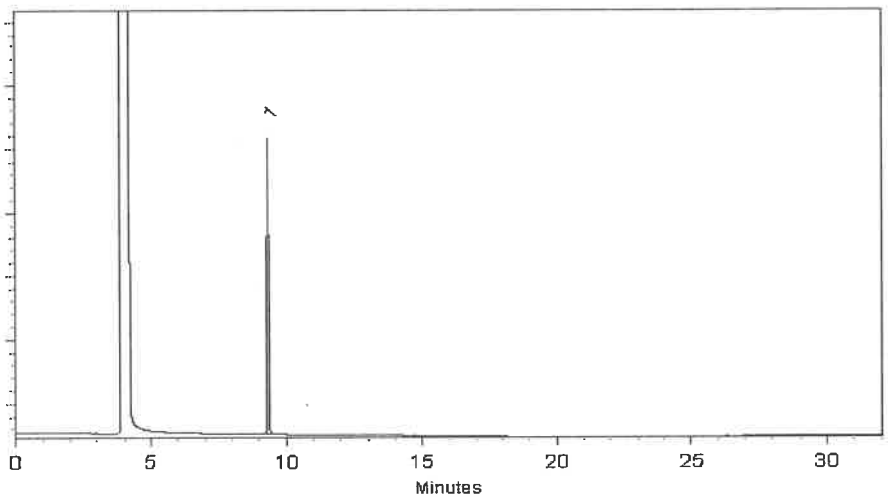
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 03-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30225 **Lot No.:** A0193071

**Description :** Bromochloromethane Standard

Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** December 31, 2027 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Bromochloromethane | 74-97-5 | 00008541 | 99% | 2,018.0 µg/mL | +/- 113.3890 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

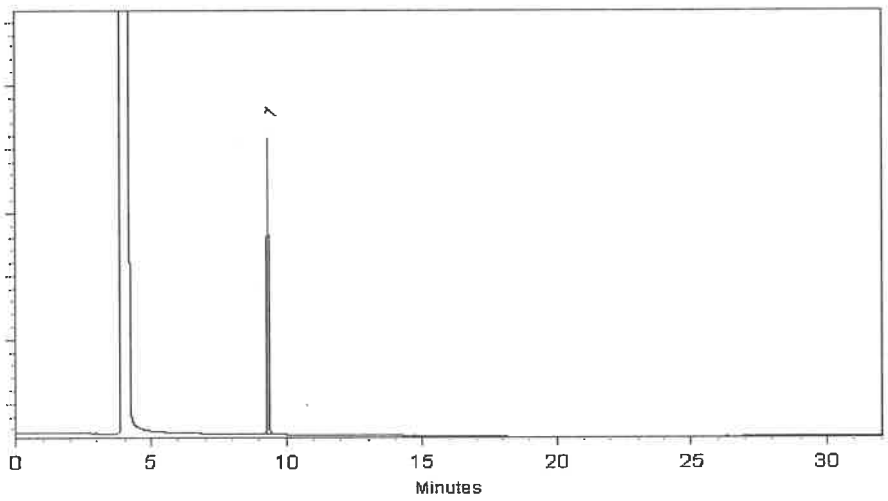
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 29-Dec-2022 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 03-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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# Certificate of Analysis

***chromatographic plus***

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0193887

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBP8774 | 99% | 5,006.5 µg/mL | +/- 173.0015 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBN9536 | 99% | 5,008.5 µg/mL | +/- 173.0706 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,000.3 µg/mL | +/- 172.7884 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,001.7 µg/mL | +/- 172.8345 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

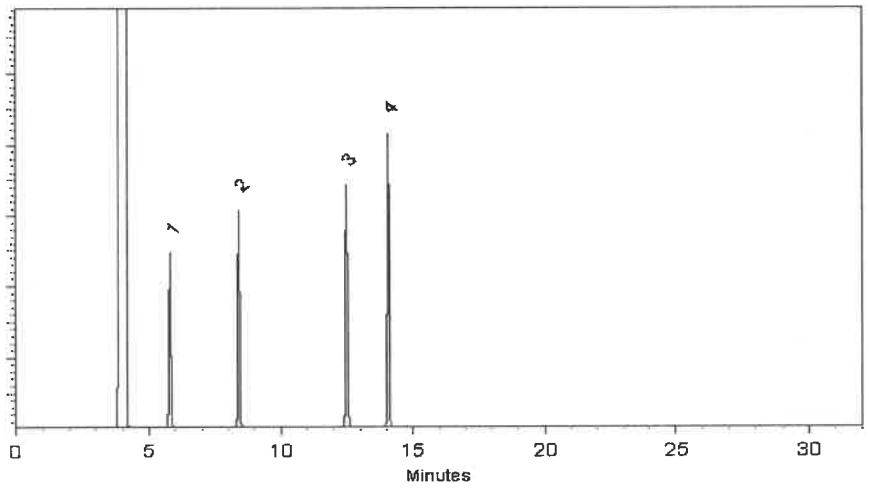
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Josh McCloskey - Operations Technician I

**Date Mixed:** 24-Jan-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 27-Jan-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0194279

**Description :** 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** October 31, 2029 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00012554 | 99% | 2,001.5 µg/mL | +/- 112.7231 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | SHBK6571 | 99% | 2,001.2 µg/mL | +/- 112.5863 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,001.4 µg/mL | +/- 112.6561 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 101604 | 99% | 2,006.4 µg/mL | +/- 112.8262 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,001.9 µg/mL | +/- 112.5897 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCL8411 | 99% | 2,000.8 µg/mL | +/- 112.6473 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

**Carrier Gas:**
helium-constant flow 2.0 mL/min.

**Temp. Program:**
40°C (hold 6 min.) to 100°C
@ 6°C/min.

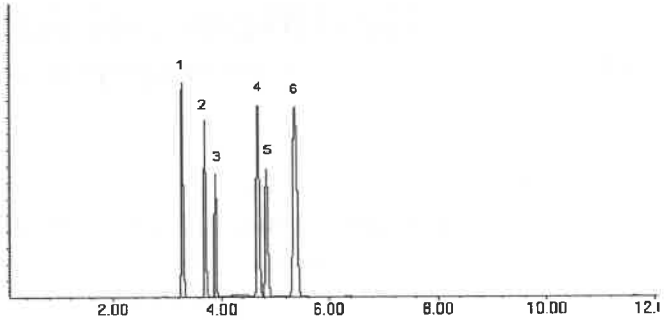
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
MSD

**Split Vent:**
Split ratio 10:1

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 03-Feb-2023 **Balance Serial #** B707717271

Christie Mills - Operations Tech II - ARM QC

**Date Passed:** 07-Feb-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*gravimetric*

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555582 **Lot No.:** A0196865

**Description :** Custom 8260A/B Surrogate Mix

Custom 8260A/B Surrogate Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,2-Dichloroethane-d4 | 17060-07-0 | PR-32845 | 99% | 25,036.0 µg/mL | +/- 1,417.9179 |
| 2 | 1-Bromo-4-fluorobenzene (BFB) | 460-00-4 | 184975 | 99% | 25,132.0 µg/mL | +/- 1,423.3549 |
| 3 | Dibromofluoromethane | 1868-53-7 | 022013 | 99% | 25,040.0 µg/mL | +/- 1,418.1445 |
| 4 | Toluene-d8 | 2037-26-5 | PR-33397 | 99% | 25,028.0 µg/mL | +/- 1,417.4648 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

Russ Bookhamer - Operations Technician I

**Date Mixed:** 11-Apr-2023 **Balance:** 1127510105

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

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### Manufacturing Notes:

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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ACCREDITED
ISO/IEC 17025 Accredited
Testing Laboratory
Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30042 **Lot No.:** A0197644

**Description :** 502.2 Calibration Mix #1

502.2 Calibration Mix #1 2,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** January 31, 2030 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Dichlorodifluoromethane (CFC-12) | 75-71-8 | 00012554 | 99% | 2,001.6 µg/mL | +/- 112.7159 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | SHBM9611 | 99% | 2,002.0 µg/mL | +/- 112.7840 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,002.2 µg/mL | +/- 112.6713 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 101604 | 99% | 2,006.4 µg/mL | +/- 112.8861 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.9 µg/mL | +/- 112.5990 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCL8411 | 99% | 1,999.2 µg/mL | +/- 112.4861 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

# Quality Confirmation Test

**Column:**
60m x 0.25mm x 1.4µm
Rtx-502.2 (cat.#10916)

**Carrier Gas:**
helium-constant flow 2.0 mL/min.

**Temp. Program:**
40°C (hold 6 min.) to 100°C
@ 6°C/min.

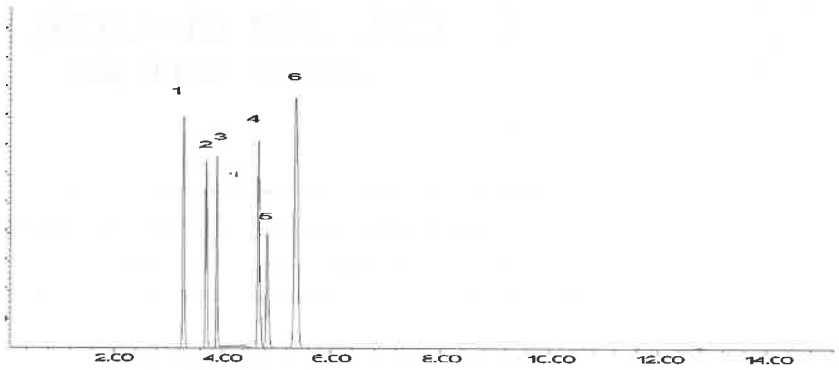
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
MSD

**Split Vent:**
Split ratio 10:1

**Inj. Vol**
1µl

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Brittany Federinko - Operations Tech I

**Date Mixed:** 02-May-2023 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 08-May-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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### Manufacturing Notes:

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### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0200785

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBP8774 | 99% | 5,018.5 µg/mL | +/- 173.4162 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBL5543 | 99% | 5,016.0 µg/mL | +/- 173.3298 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,010.7 µg/mL | +/- 173.1455 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,015.0 µg/mL | +/- 173.2952 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

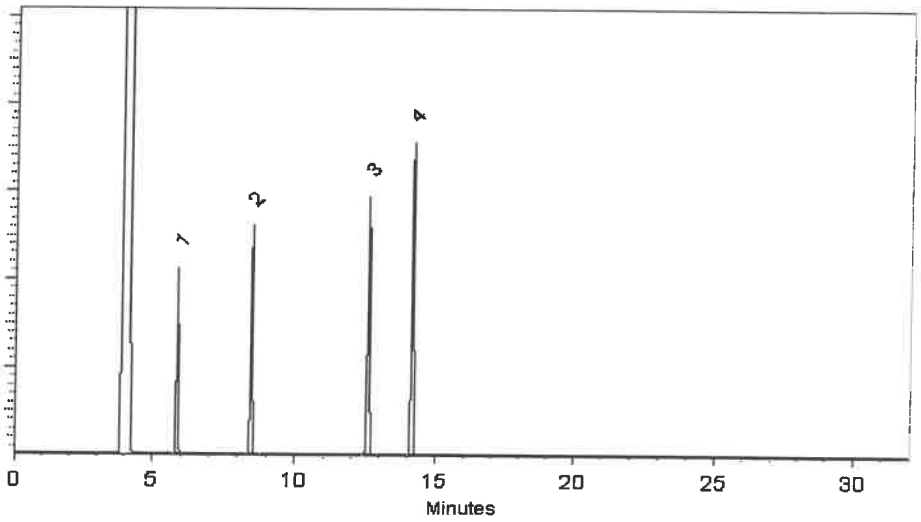
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I  **Date Mixed:** 09-Aug-2023  **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC  **Date Passed:** 16-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0200785

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBP8774 | 99% | 5,018.5 µg/mL | +/- 173.4162 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBL5543 | 99% | 5,016.0 µg/mL | +/- 173.3298 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,010.7 µg/mL | +/- 173.1455 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,015.0 µg/mL | +/- 173.2952 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

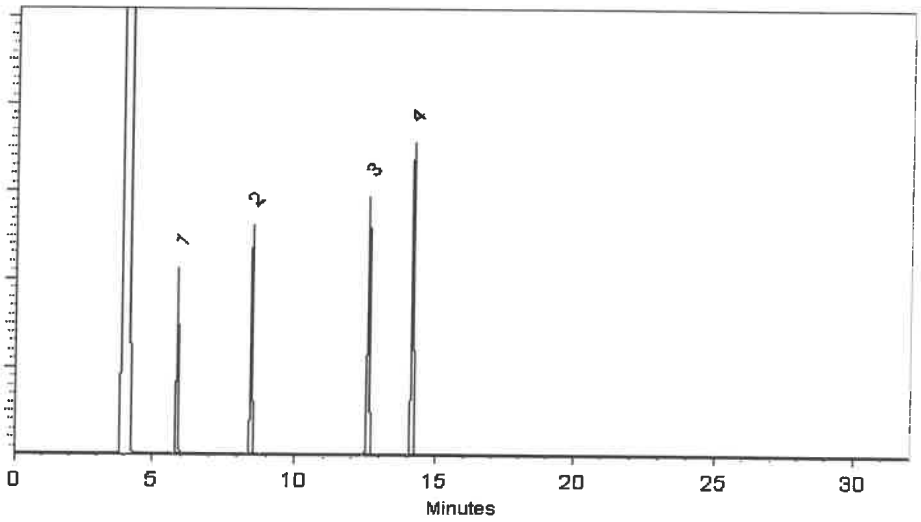
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I

**Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC

**Date Passed:** 16-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30006 **Lot No.:** A0200785

**Description :** VOA Calibration Mix #1

VOA Calibration Mix #1 5,000µg/mL, P&T Methanol/Water(90:10), 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** November 30, 2026 **Storage:** 0°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Acetone | 67-64-1 | SHBP8774 | 99% | 5,018.5 µg/mL | +/- 173.4162 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBL5543 | 99% | 5,016.0 µg/mL | +/- 173.3298 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP4724 | 99% | 5,010.7 µg/mL | +/- 173.1455 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,015.0 µg/mL | +/- 173.2952 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol/Water (90:10)
**CAS #** 67-56-1/7732-18-5
**Purity** 99%

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

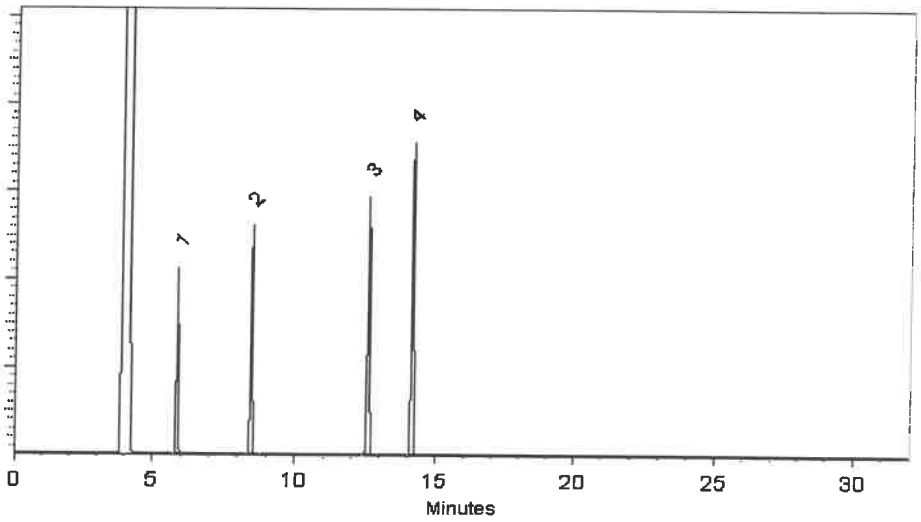
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Laith Clemente - Operations Technician I **Date Mixed:** 09-Aug-2023 **Balance Serial #** B707717271

Marlina Cowan – Operations Tech II ARM QC **Date Passed:** 16-Aug-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0205013

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,012.7 µg/mL | +/- 69.5670 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,017.5 µg/mL | +/- 69.7338 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,020.0 µg/mL | +/- 69.8205 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,018.7 µg/mL | +/- 69.7744 |
| 5 | Propyl acetate | 109-60-4 | KLOBM | 99% | 2,012.0 µg/mL | +/- 69.5439 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,020.0 µg/mL | +/- 69.8205 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,019.5 µg/mL | +/- 69.8046 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

## Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

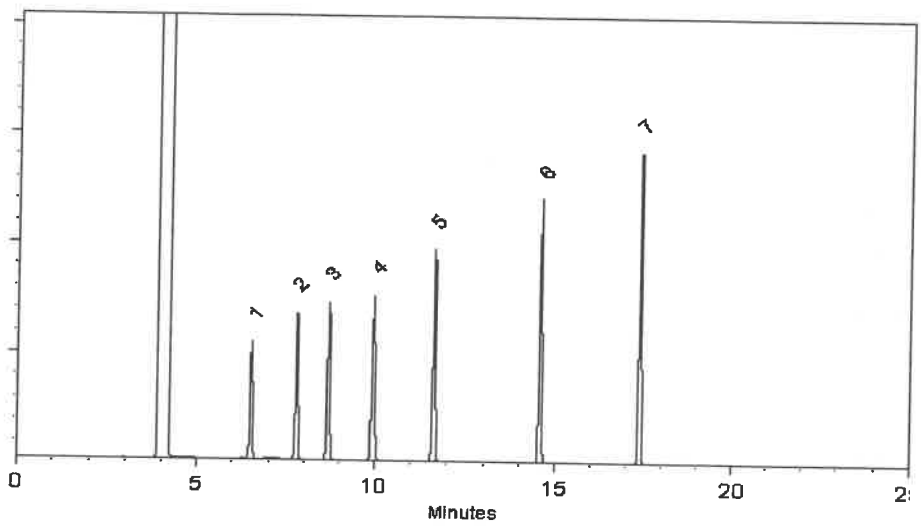
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl

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Brittany Federinko - Operations Tech I

**Date Mixed:** 04-Dec-2023 **Balance Serial #** 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 06-Dec-2023

Manufactured under Restek's ISO 9001:2015
Registered Quality System
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

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**Catalog No. :** 555408-FL **Lot No.:** A0205177

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 8,047.8 µg/mL | +/- 278.1675 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods. Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

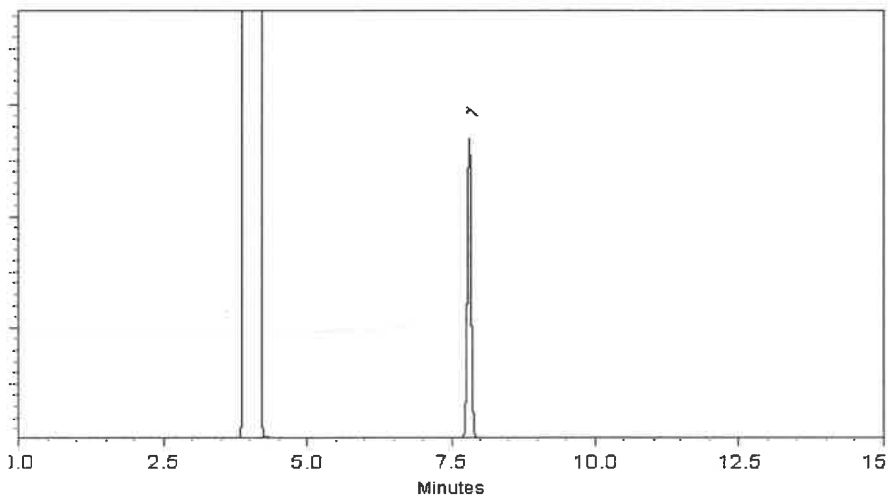
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Tom Suckar - Mix Technician

**Date Mixed:** 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 11-Dec-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

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Reference Material Producer
Certificate #3222.01

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Testing Laboratory
Certificate #3222.02

# Certificate of Analysis

*chromatographic*

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-SL **Lot No.:** A0205179

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 8,075.2 µg/mL | +/- 279.1159 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

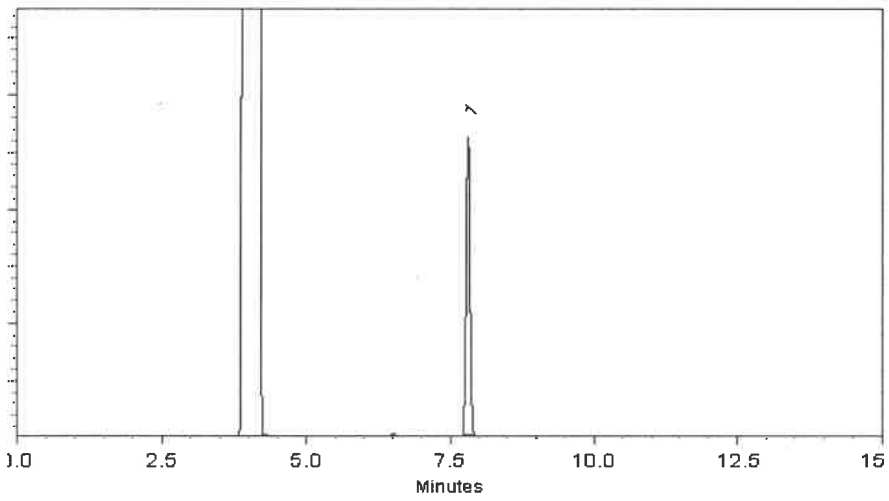
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Daniel Wasson - Operations Tech I  **Date Mixed:** 06-Dec-2023  **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC  **Date Passed:** 11-Dec-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

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CERTIFIED REFERENCE MATERIAL

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# Certificate of Analysis

*chromatographic*

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555408-SL **Lot No.:** A0205179

**Description :** Custom Vinyl Acetate Standard

Custom Vinyl Acetate Standard 8,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 8,075.2 µg/mL | +/- 279.1159 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

# Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

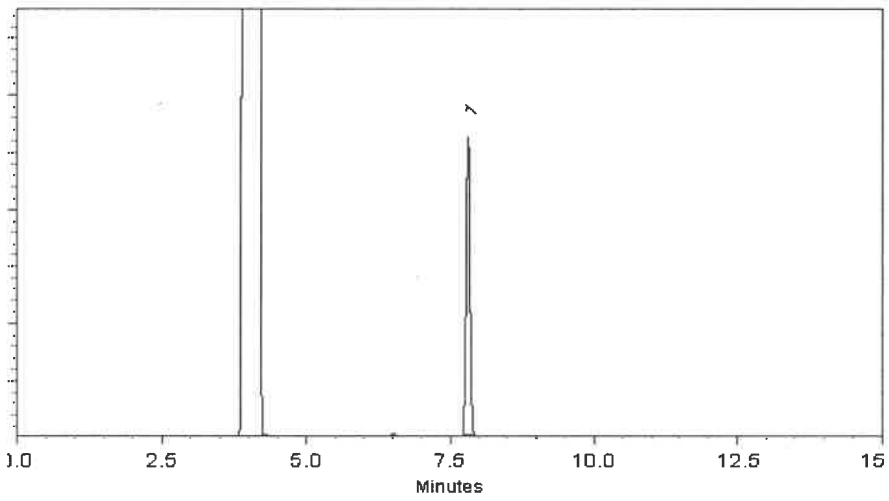
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Daniel Wasson - Operations Tech I

**Date Mixed:** 06-Dec-2023 **Balance Serial #** 1127510105

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 11-Dec-2023

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic plus*

ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0209618

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,016.8 µg/mL | +/- 69.7112 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,016.0 µg/mL | +/- 69.6822 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,007.3 µg/mL | +/- 69.3826 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,004.7 µg/mL | +/- 69.2905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

## Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

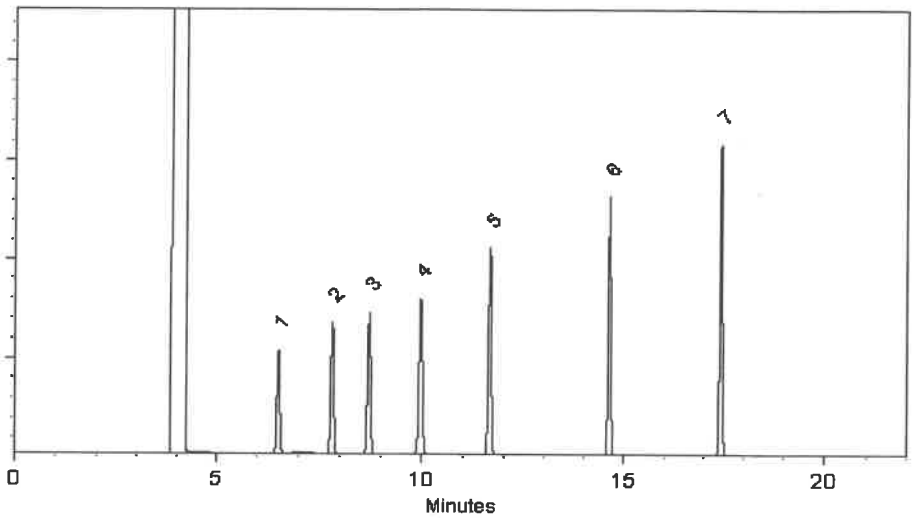
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

**Date Passed:** 01-Apr-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

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CERTIFIED REFERENCE MATERIAL

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ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

*chromatographic plus*

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 30489 **Lot No.:** A0209618

**Description :** 8260B Acetates Mix

8260B Acetates Mix 2,000 µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** -20°C or colder

**Handling:** This product is photosensitive. **Ship:** On Ice

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | Methyl acetate | 79-20-9 | SHBP3100 | 99% | 2,019.3 µg/mL | +/- 69.7974 |
| 2 | Vinyl acetate | 108-05-4 | RP231030CTH | 98% | 2,016.8 µg/mL | +/- 69.7112 |
| 3 | Ethyl acetate | 141-78-6 | SHBQ9682 | 99% | 2,010.7 µg/mL | +/- 69.4979 |
| 4 | Isopropyl acetate | 108-21-4 | BCCG7069 | 99% | 2,016.0 µg/mL | +/- 69.6822 |
| 5 | Propyl acetate | 109-60-4 | P8XLN | 99% | 2,008.0 µg/mL | +/- 69.4057 |
| 6 | Butyl acetate | 123-86-4 | SHBP6314 | 99% | 2,007.3 µg/mL | +/- 69.3826 |
| 7 | Amyl acetate | 628-63-7 | 41325/1 | 97% | 2,004.7 µg/mL | +/- 69.2905 |

* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

Vinyl acetate is a volatile organic ester included in the target lists of several US EPA and other methods . Under acidic conditions, esters react with alcohols to form new esters (transesterification). Methanol-based mixes containing halogenated compounds are slightly acidic, so it is important to minimize exposure of vinyl acetate to mixes of halogenated compounds in methanol. For this

reason, we offer vinyl acetate in individual solution, and suggest that it be introduced into the working level calibration solution immediately before use. This will minimize problems and ensure more consistent results.

## Quality Confirmation Test

**Column:**
105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

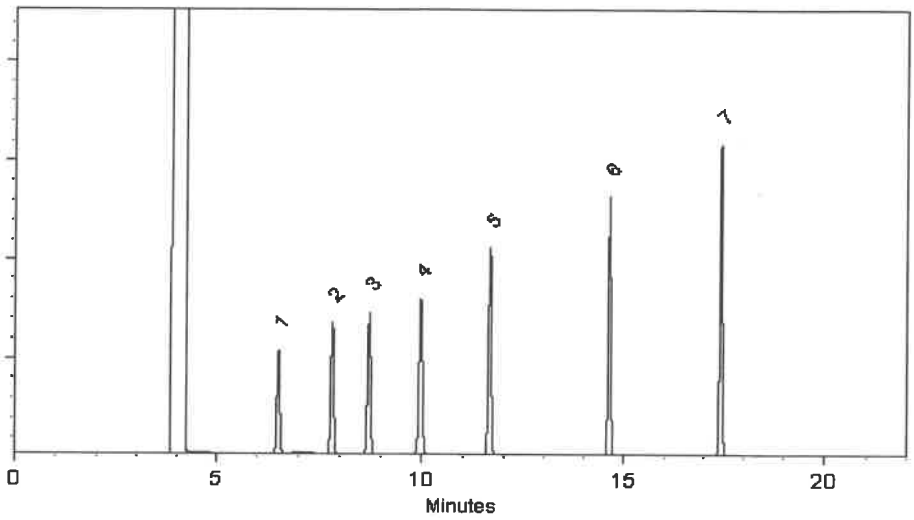
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl




This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Sam Moodler - Operations Tech I

**Date Mixed:** 28-Mar-2024 **Balance Serial #** B707717271

Dillan Murphy - Operations Technician I

**Date Passed:** 01-Apr-2024

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

## Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

***gravimetric***

ilac-MRA A2LA ACCREDITED ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ilac-MRA A2LA ACCREDITED ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555581 **Lot No.:** A0210184

**Description :** Custom 8260 Internal Standard Mix

Custom 8260 Internal Standard Mix 25,000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2027 **Storage:** 10°C or colder

**Ship:** Ambient

CERTIFIED VALUES

| Component # | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---|---|---|---|---|---|---|
| 1 | 1,4-Dichlorobenzene-d4 | 3855-82-1 | PR-30447 | 99% | 25,212.0 µg/mL | +/- 1,427.8857 |
| 2 | 1,4-Difluorobenzene | 540-36-3 | MKCS8657 | 99% | 25,220.0 µg/mL | +/- 1,428.3388 |
| 3 | Chlorobenzene-d5 | 3114-55-4 | PR-31132 | 99% | 25,116.0 µg/mL | +/- 1,422.4487 |
| 4 | Pentafluorobenzene | 363-72-4 | MKCR9383 | 99% | 25,180.0 µg/mL | +/- 1,426.0734 |

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

John Friedline - Operations Technician I **Date Mixed:** 11-Apr-2024 **Balance:** 1127510105

Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397

# General Certified Reference Material Notes

## Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

## Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

## Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

## Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.

**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

*Certified Reference Material CRM*

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 70046
**Lot Number:** 070122
**Description:** Bromochloromethane

**Solvent:** Methanol **Lot#** EC592-US

**Expiration Date:** 070127
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 1000
**NIST Test ID#:** 6UTB

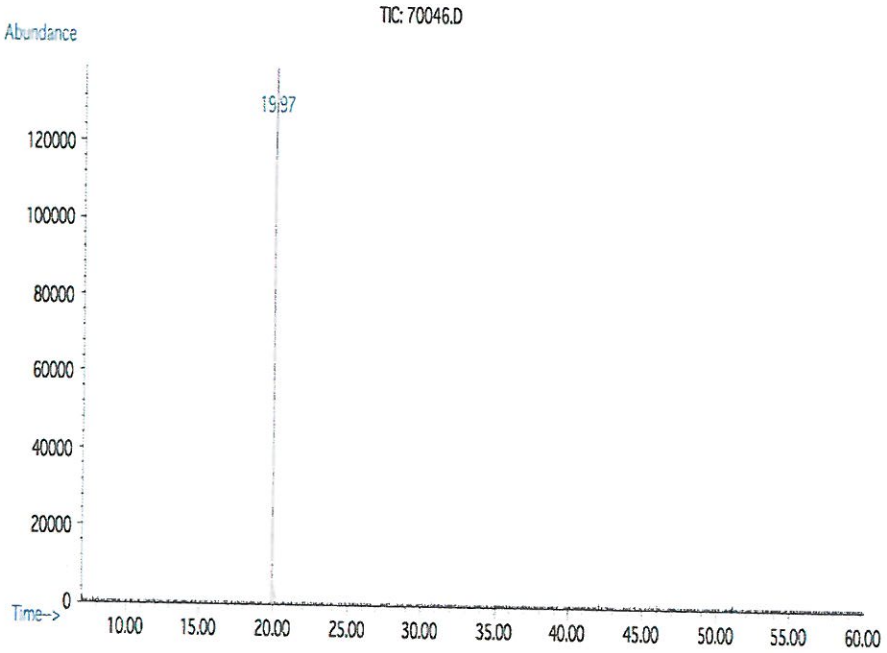
Weight(s) shown below were combined and diluted to (mL): 25.0

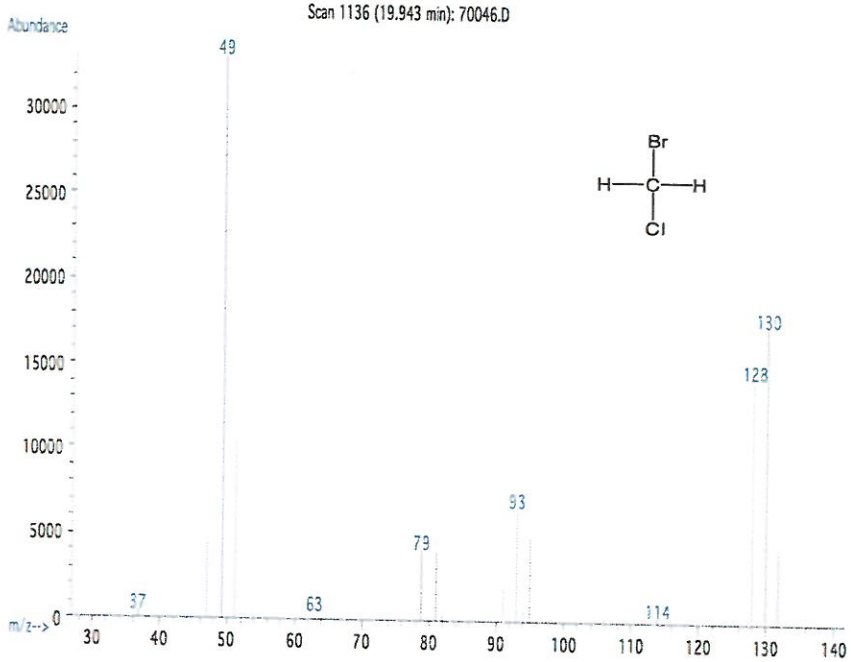
5E-05 Balance Uncertainty
0.0002 Flask Uncertainty

| | | |
|---|---|---|
| Gabriel Helland | | 070122 |
| Formulated By: | Gabriel Helland | DATE |
| Pedro Rentas | | 070122 |
| Reviewed By: | Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Uncertainty Purity (%) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent Safety Info. On Attached pg.) CAS# | OSHA PEL (TWA) | LD50 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. Bromochloromethane | 46 | AY01 | 1000 | 99 | 0.2 | 0.02530 | 0.02540 | 1004.1 | 5.7 | 74-97-5 | 200 ppm (1050mg/m3/8H) | orl-rat 5000mg/kg |

**Method GC6MSD-1.M:** Column : (60m X 0.25mm X 1.5 µm) Temp 1 = 35°C (10min.), Temp 2 = 200°C (8.75 min.), Rate = 4°C/min., Injector B= 200°C, Detector B = 220°C. Analyst: Candice Warren




- The certified value is the concentration calculated from gravimetric and volumetric measurements unless otherwise stated.
- Standards are prepared gravimetrically using balances that are calibrated with weights traceable to NIST (see above).
- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
- Uncertainty Reference: Taylor, B.N. and Kuyat, C.E., "Guidelines for Evaluating and Expressing the Uncertainty of NIST Measurement Result," NIST Technical Note 1297, U.S. Government Printing Office, Washington, DC, (1994).

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
Batch No.: 22L0562016
Manufactured Date: 2022-10-26
Expiration Date: 2025-10-25
Revision No.: 0

# Certificate of Analysis

| Test | Specification | Result |
|---|---|---|
| Assay ($CH_3OH$) (by GC, corrected for water) | ≥ 99.9 % | 100.0 % |
| Residue after Evaporation | ≤ 1.0 ppm | 0.2 ppm |
| Titrable Acid (µeq/g) | ≤ 0.3 | 0.2 |
| Titrable Base (µeq/g) | ≤ 0.10 | 0.03 |
| Water (by KF, coulometric) | ≤ 0.08 % | < 0.01 % |
| Volatile Organic Trace Analysis - Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
Performance Tested for Use in EPA Methods
500 Series for Drinking Water
600 Series for Wastewater
846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

avantor™ | J.T.Baker®

Material No.: 9077-02
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Methanol
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| Volatile Organic Trace Analysis - Below EPA 8260B CRQL | Conforms | Conforms |

For Laboratory,Research,or Manufacturing Use
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500 Series for Drinking Water
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846 for Solid Waste

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020669.D
Acq On : 20 Dec 2024 14:34
Operator : SY/MD
Sample : P5316-01
Misc : 5.97g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Quant Time: Dec 20 18:09:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

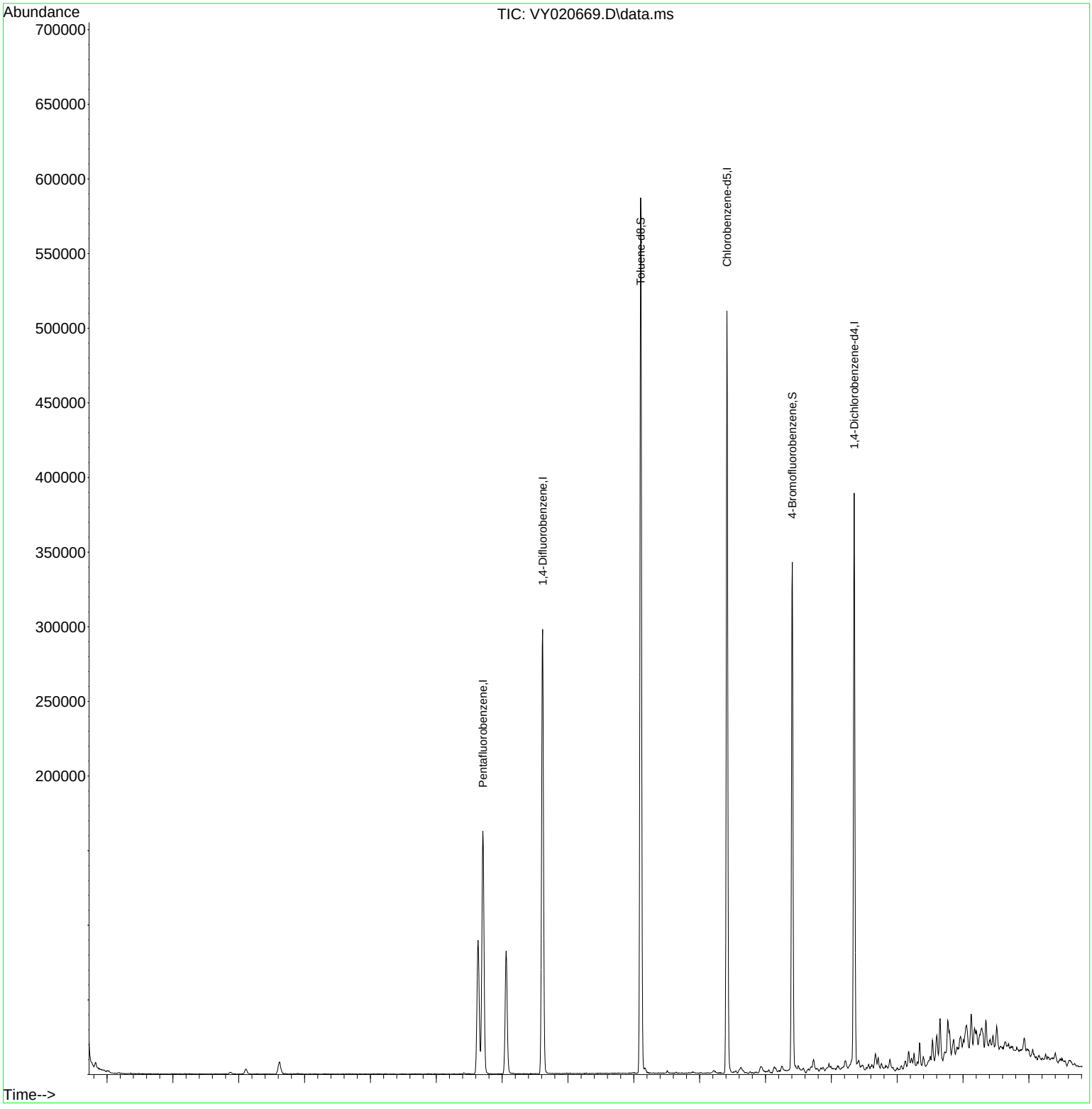
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 123590 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 256790 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 258559 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 91825 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 66705 | 49.281 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 98.560% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 62350 | 34.451 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 68.900% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 386152 | 60.960 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 121.920% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 107021 | 43.190 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 86.380% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.879 | 43 | 2333 | 2.298 | ug/l | 95 |
| 17) Carbon Disulfide | 4.110 | 76 | 6654 | 1.320 | ug/l | 97 |
| 20) Methylene Chloride | 4.623 | 84 | 6342 | 3.768 | ug/l # | 86 |

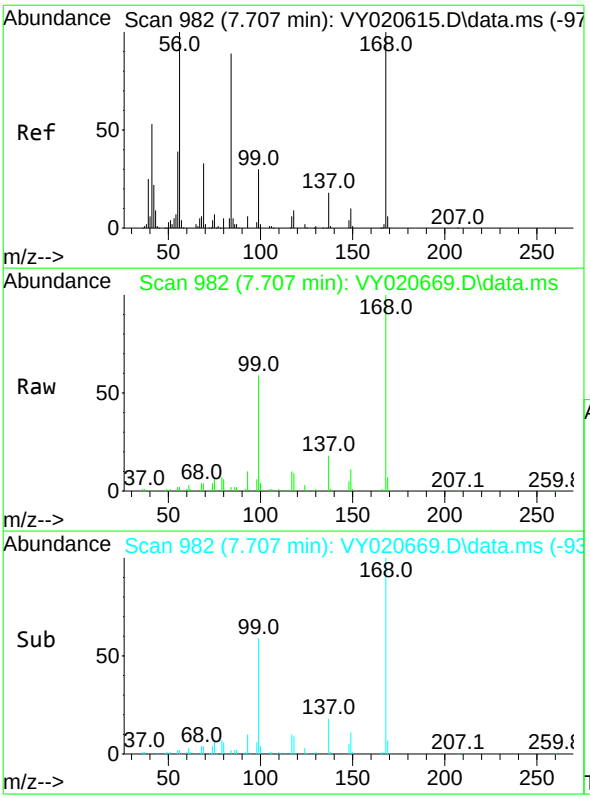
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020669.D
Acq On : 20 Dec 2024 14:34
Operator : SY/MD
Sample : P5316-01
Misc : 5.97g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Quant Time: Dec 20 18:09:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



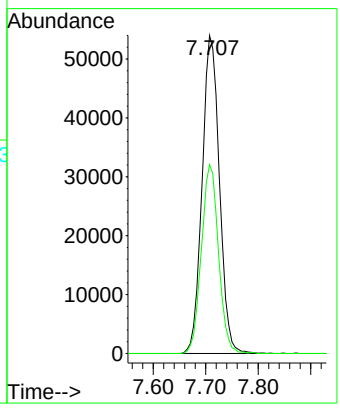


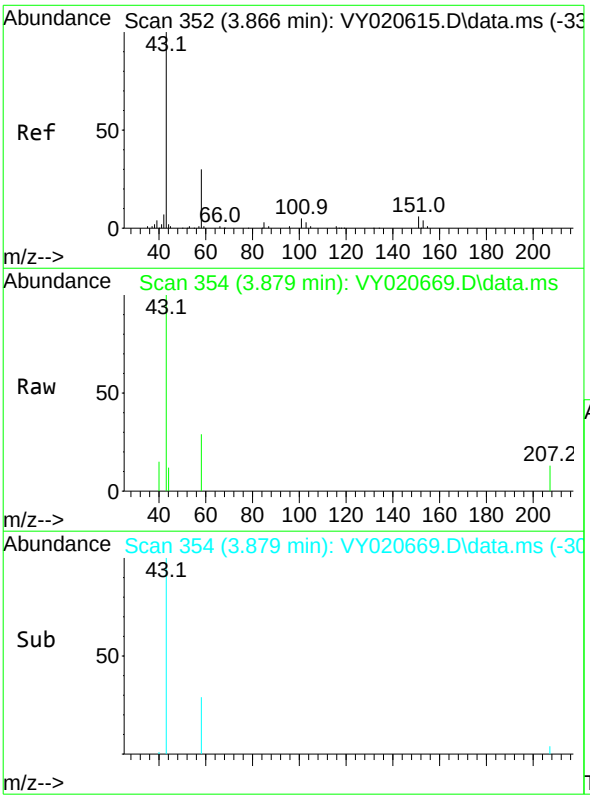

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion:168 Resp: 123590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.4 | 47.0 | 70.6 |

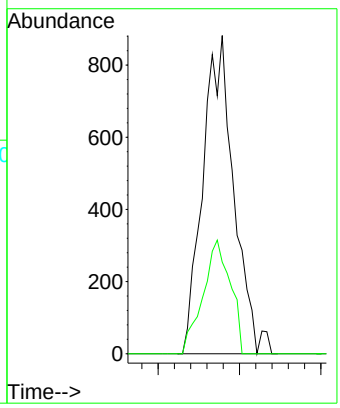


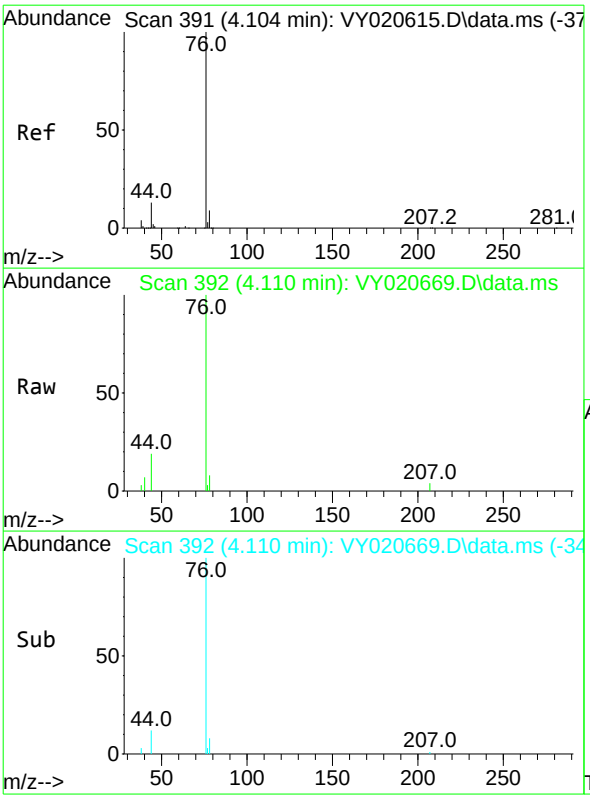




#16
Acetone
Concen: 2.298 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.013 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

Tgt Ion: 43 Resp: 2333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.8 | 25.0 | 37.6 |



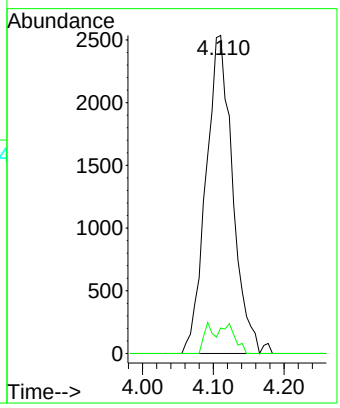


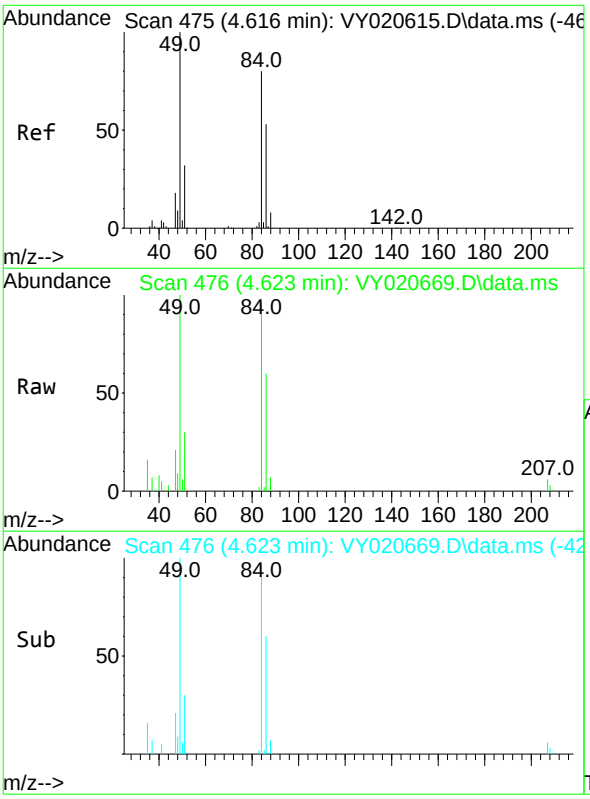

#17
Carbon Disulfide
Concen: 1.320 ug/l
RT: 4.110 min Scan# 39
Delta R.T. 0.006 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion: 76 Resp: 6654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.0 | 7.2 | 10.8 |

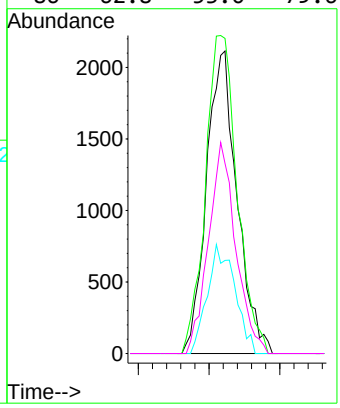


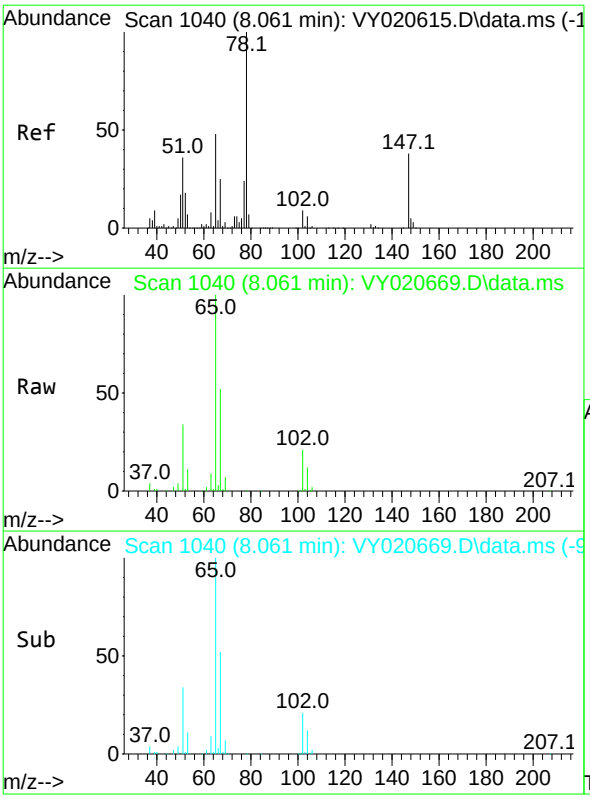




#20
Methylene Chloride
Concen: 3.768 ug/l
RT: 4.623 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

Tgt Ion: 84 Resp: 6342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 104.2 | 100.7 | 151.1 |
| 51 | 30.8 | 32.2 | 48.2# |
| 86 | 62.8 | 53.0 | 79.6 |



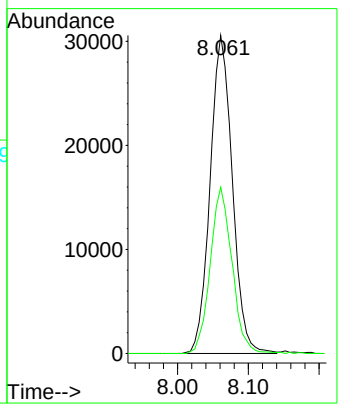


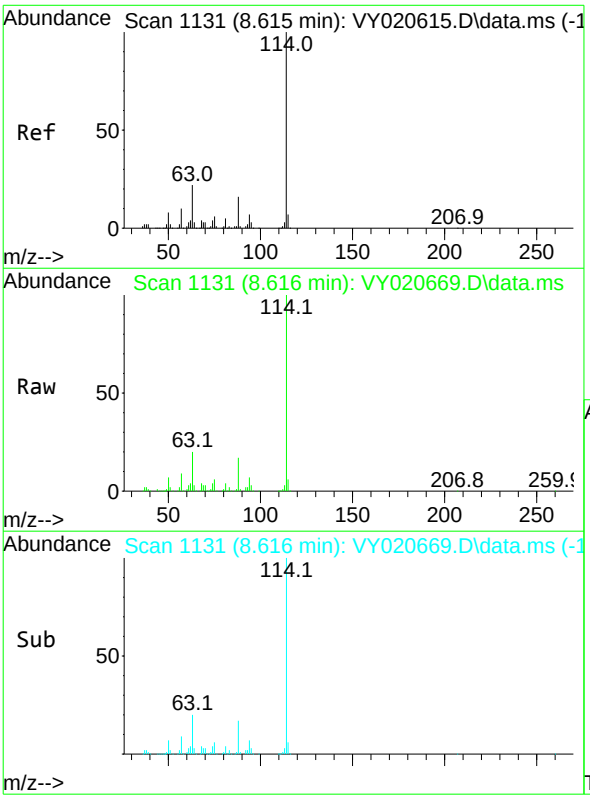

#33
1,2-Dichloroethane-d4
Concen: 49.281 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion: 65 Resp: 66705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.2 | 0.0 | 108.0 |

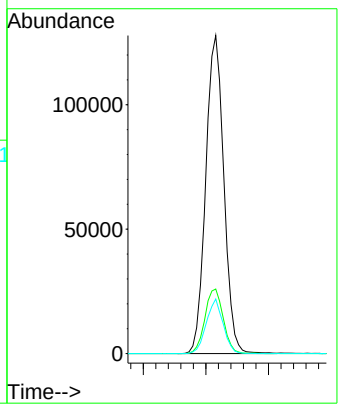


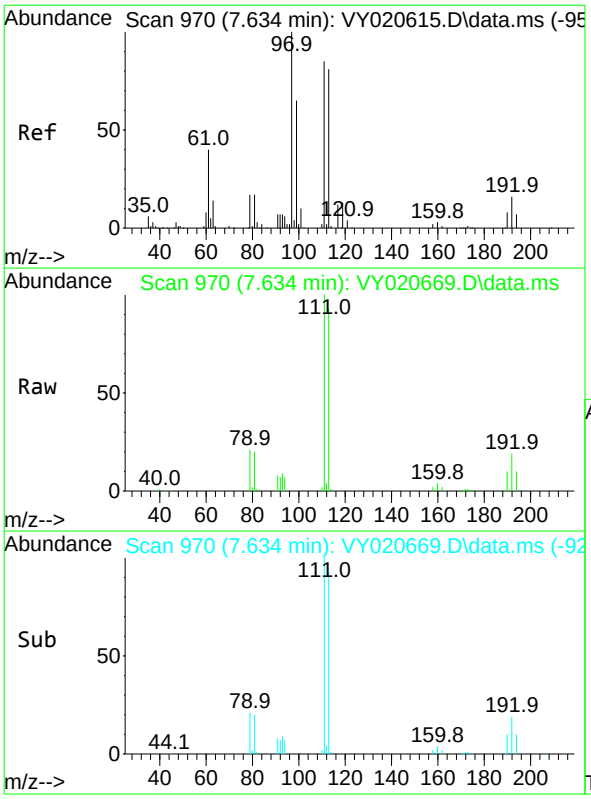




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

Tgt Ion:114 Resp: 256790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.3 | 0.0 | 44.0 |
| 88 | 17.2 | 0.0 | 32.8 |



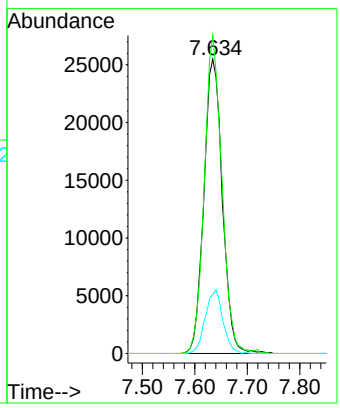


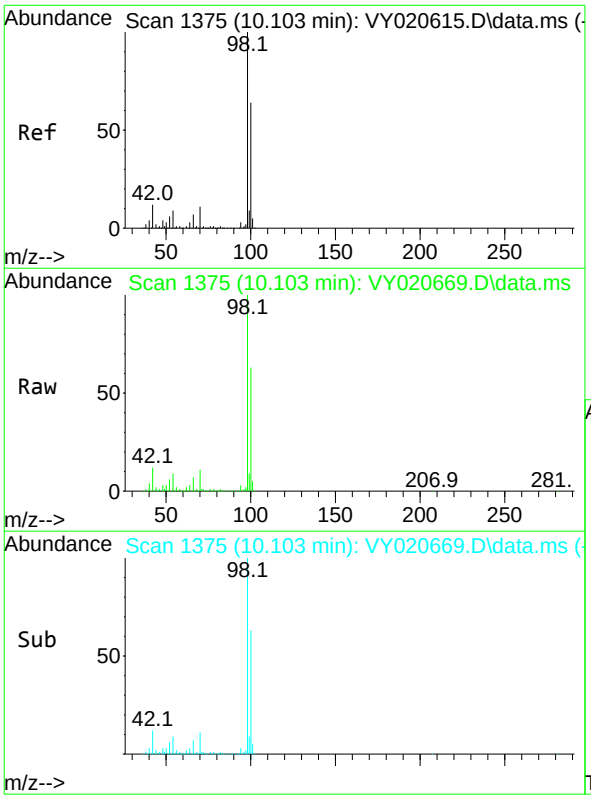

#35
Dibromofluoromethane
Concen: 34.451 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion:113 Resp: 62350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.3 | 82.9 | 124.3 |
| 192 | 20.5 | 15.7 | 23.5 |

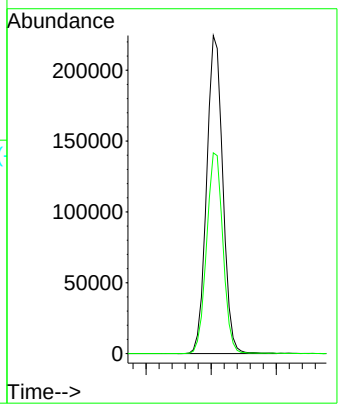


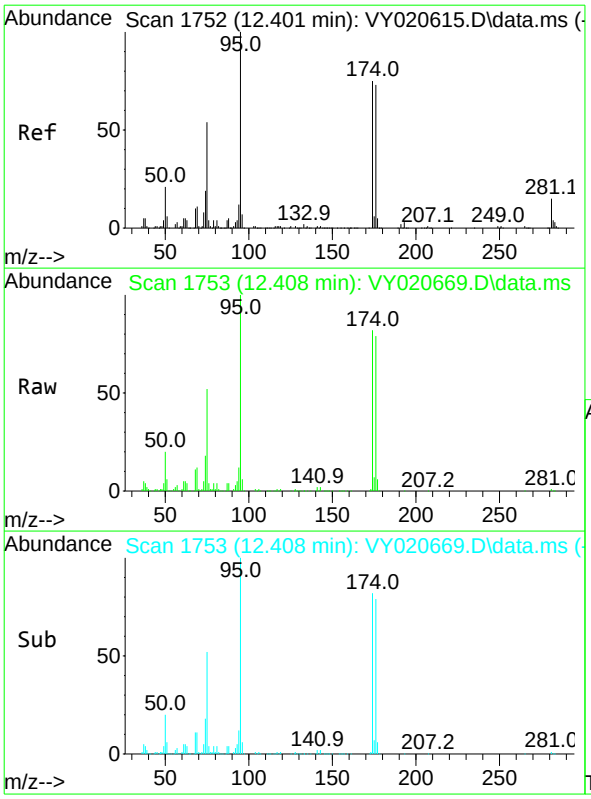




#50
Toluene-d8
Concen: 60.960 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

Tgt Ion: 98 Resp: 386152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.0 | 52.1 | 78.1 |



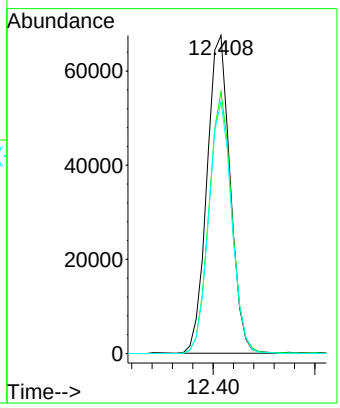


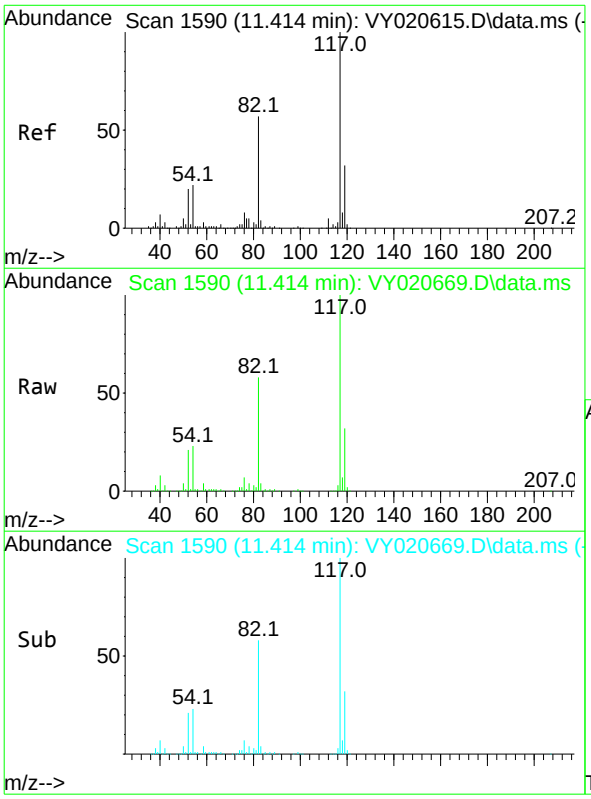

#62
4-Bromofluorobenzene
Concen: 43.190 ug/l
RT: 12.408 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion: 95 Resp: 107021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.9 | 0.0 | 161.8 |
| 176 | 78.4 | 0.0 | 156.6 |

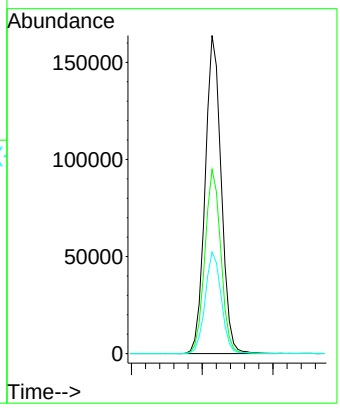


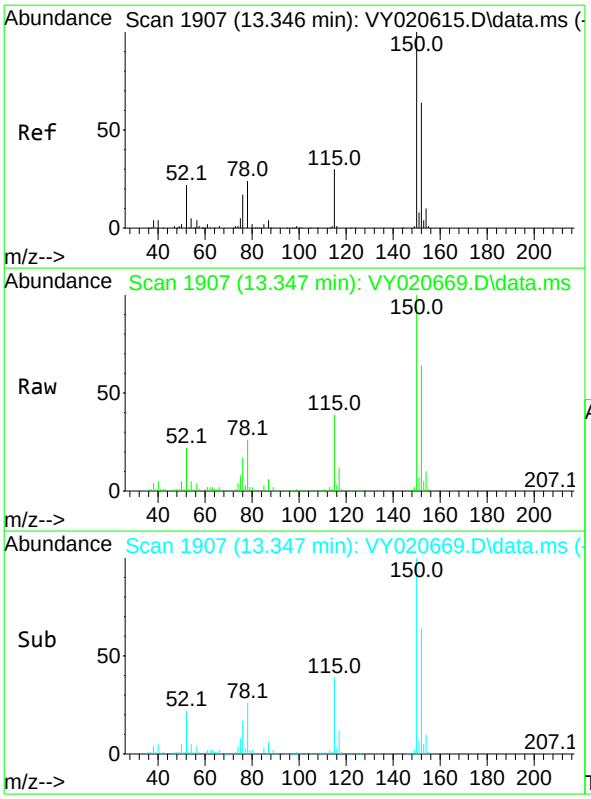




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

Tgt Ion:117 Resp: 258559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.9 | 45.8 | 68.6 |
| 119 | 31.9 | 25.3 | 37.9 |



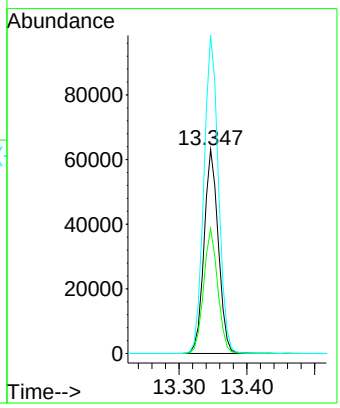



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020669.D
Acq: 20 Dec 2024 14:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-1

Tgt Ion:152 Resp: 91825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.5 | 30.2 | 90.6 |
| 150 | 159.1 | 0.0 | 355.4 |



Quantitation Report (QT/LSC Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020670.D
Acq On : 20 Dec 2024 14:57
Operator : SY/MD
Sample : P5316-02
Misc : 4.81g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Quant Time: Dec 20 18:09:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

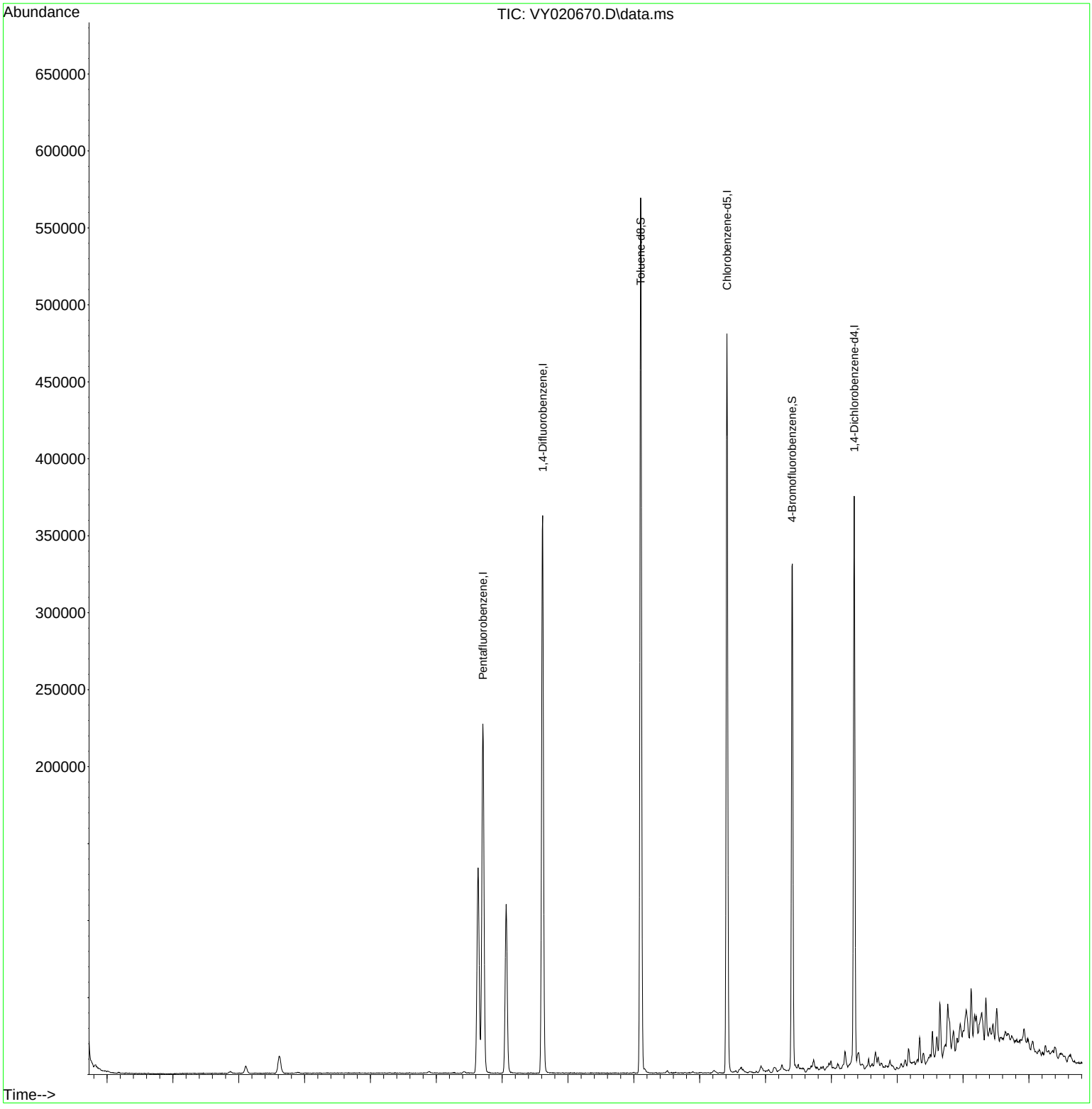
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 174578 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 306694 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 251459 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 92350 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 86368 | 45.172 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 90.340% | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 94772 | 43.845 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 87.700% | | |
| 50) Toluene-d8 | 10.103 | 98 | 370910 | 49.026 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 98.060% | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 103716 | 35.046 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 70.100% | | |
| Target Compounds | | | | | | Qvalue |
| 17) Carbon Disulfide | 4.104 | 76 | 9216 | 1.294 | ug/l | 99 |
| 20) Methylene Chloride | 4.616 | 84 | 8318 | 3.499 | ug/l | 93 |

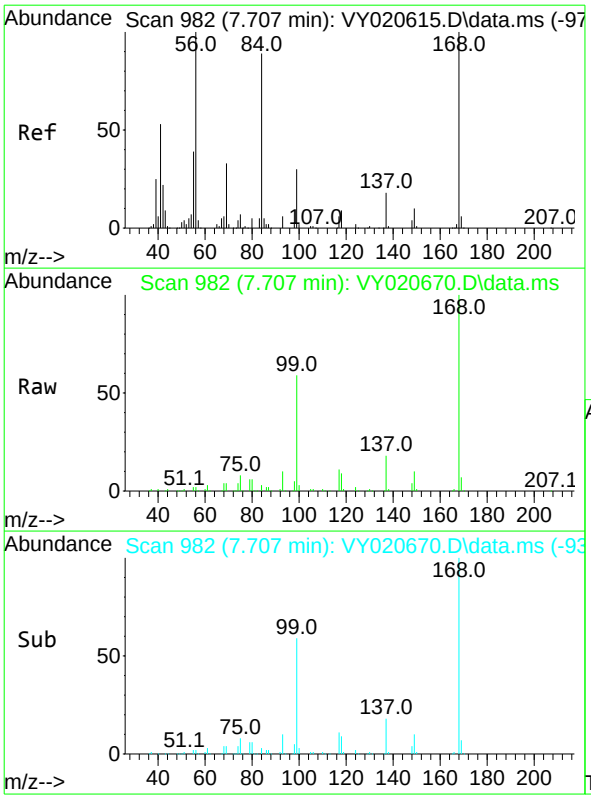
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020670.D
Acq On : 20 Dec 2024 14:57
Operator : SY/MD
Sample : P5316-02
Misc : 4.81g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Quant Time: Dec 20 18:09:15 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



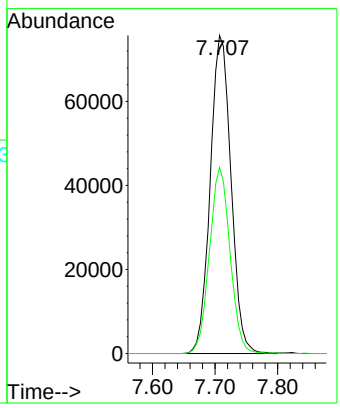


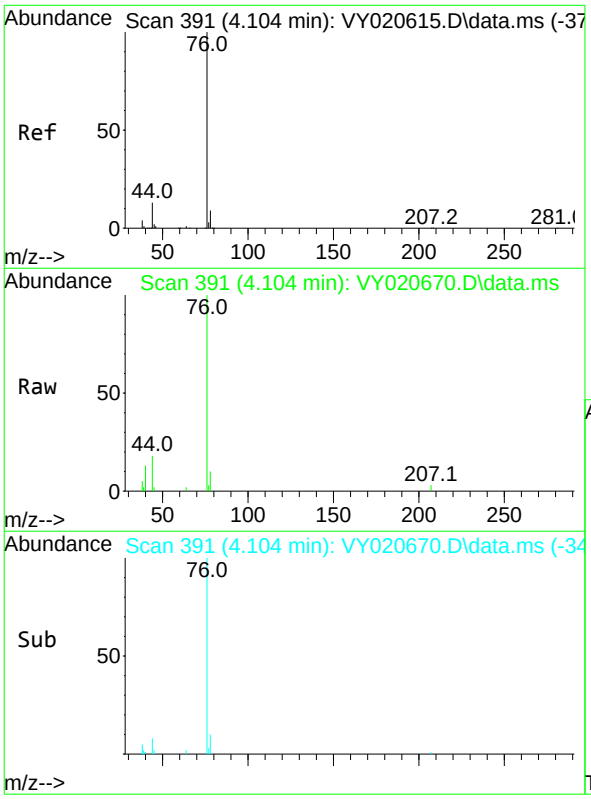

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020670.D
Acq: 20 Dec 2024 14:57

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion:168 Resp: 174578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.5 | 47.0 | 70.6 |

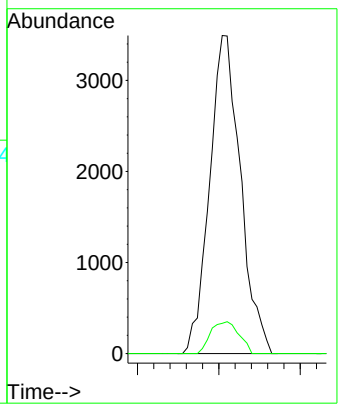


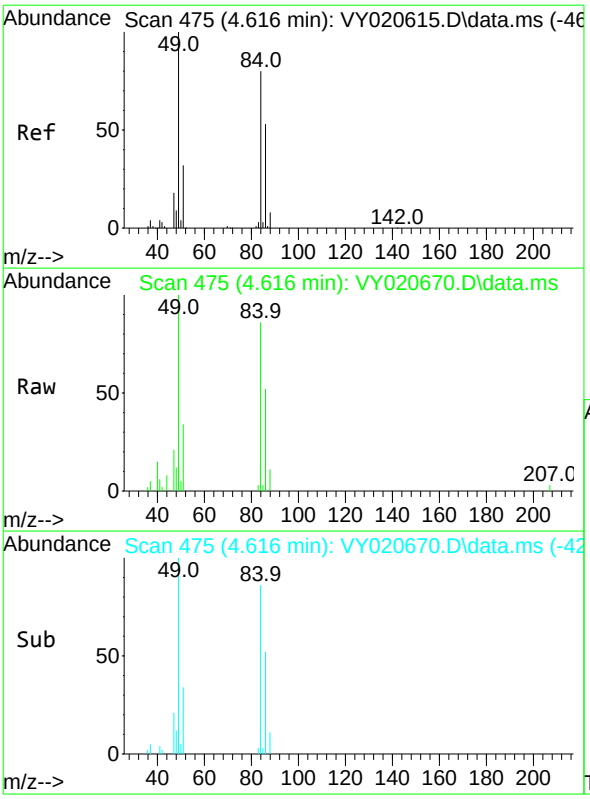




#17
Carbon Disulfide
Concen: 1.294 ug/l
RT: 4.104 min Scan# 391
Delta R.T. 0.000 min
Lab File: VY020670.D
Acq: 20 Dec 2024 14:57

Tgt Ion: 76 Resp: 9216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.5 | 7.2 | 10.8 |



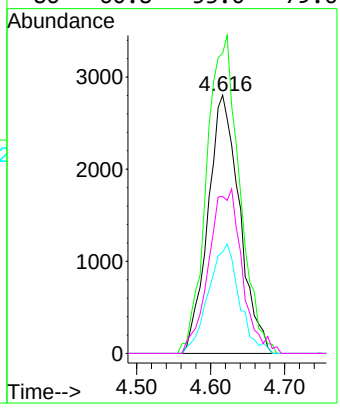


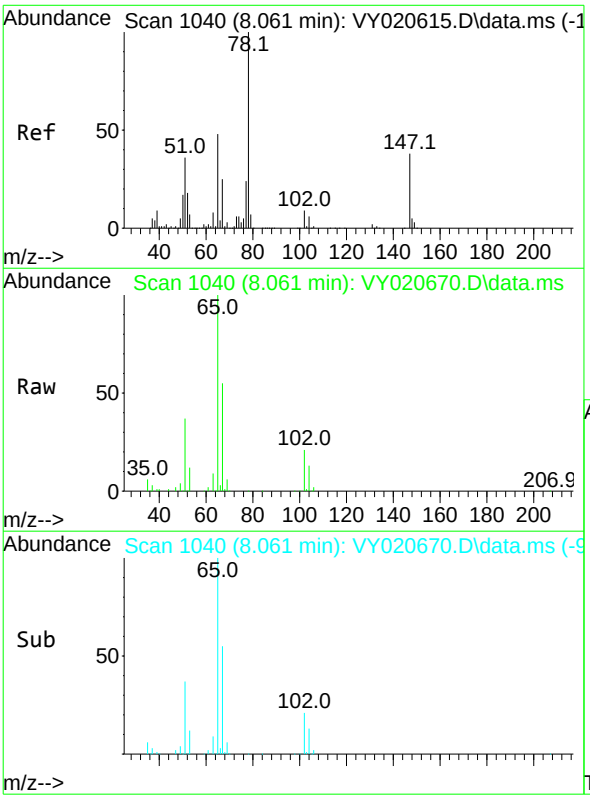

#20
Methylene Chloride
Concen: 3.499 ug/l
RT: 4.616 min Scan# 47
Delta R.T. 0.000 min
Lab File: VY020670.D
Acq: 20 Dec 2024 14:57

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion: 84 Resp: 8318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 116.3 | 100.7 | 151.1 |
| 51 | 39.3 | 32.2 | 48.2 |
| 86 | 60.8 | 53.0 | 79.6 |

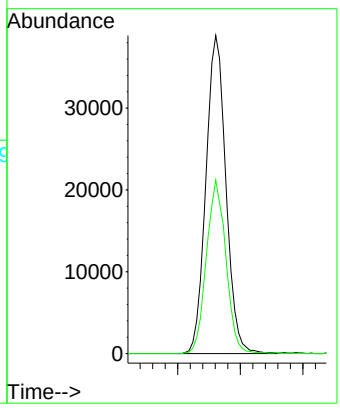


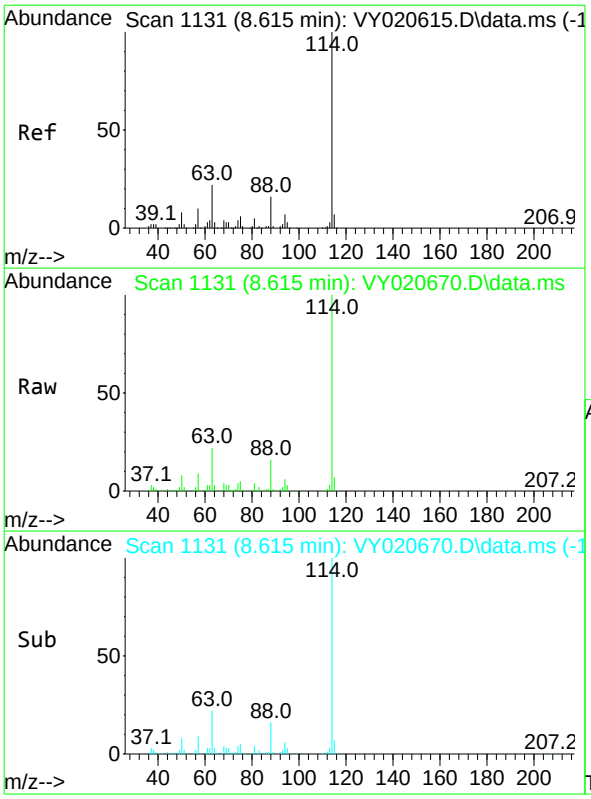




#33
1,2-Dichloroethane-d4
Concen: 45.172 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY020670.D
Acq: 20 Dec 2024 14:57

Tgt Ion: 65 Resp: 86368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.2 | 0.0 | 108.0 |



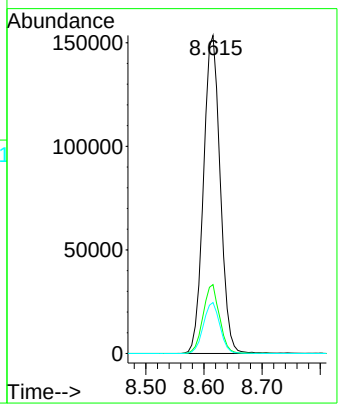


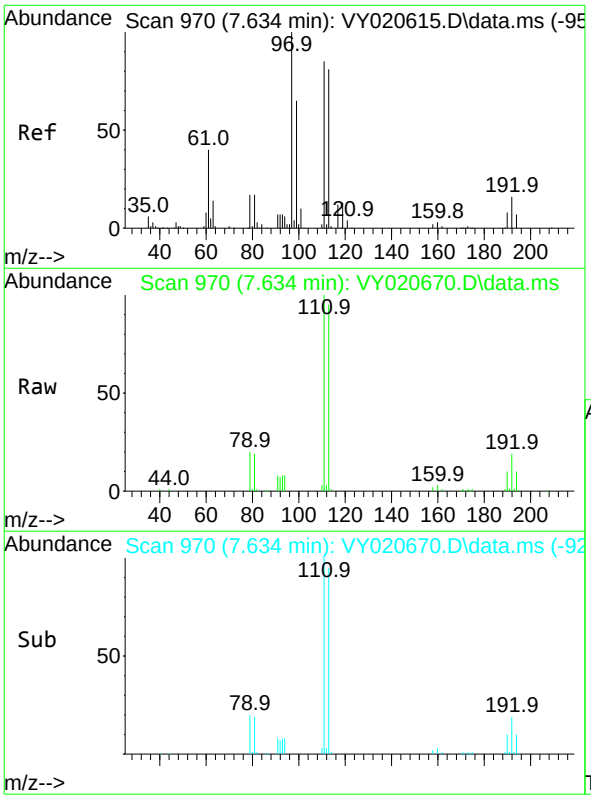

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY020670.D
Acq: 20 Dec 2024 14:57

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion:114 Resp: 306694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.7 | 0.0 | 44.0 |
| 88 | 16.0 | 0.0 | 32.8 |

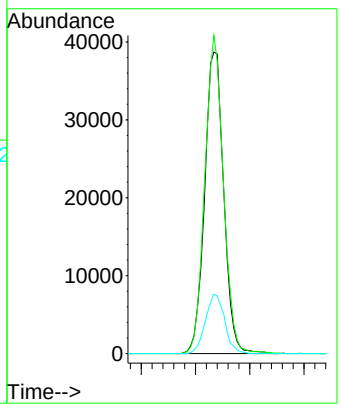


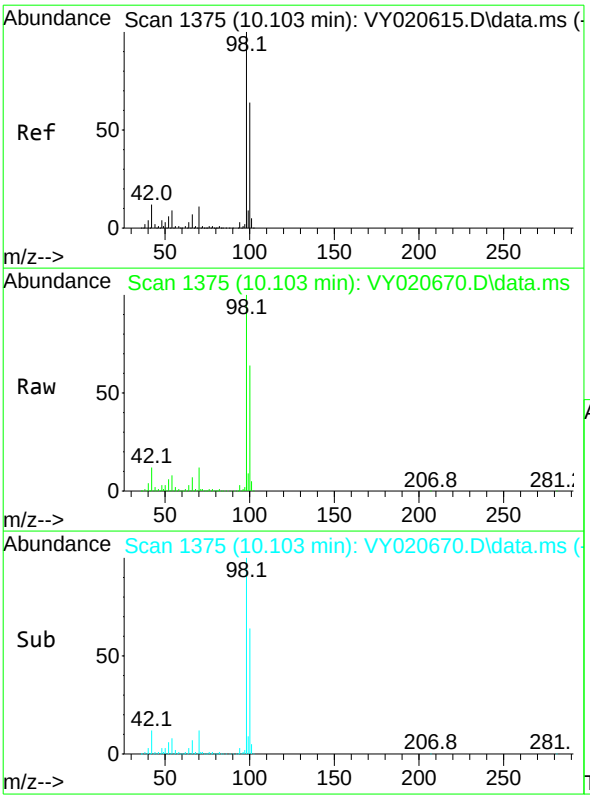




#35
Dibromofluoromethane
Concen: 43.845 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020670.D
Acq: 20 Dec 2024 14:57

Tgt Ion:113 Resp: 94772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 82.9 | 124.3 |
| 192 | 19.7 | 15.7 | 23.5 |



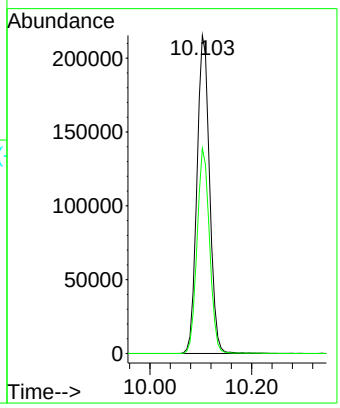


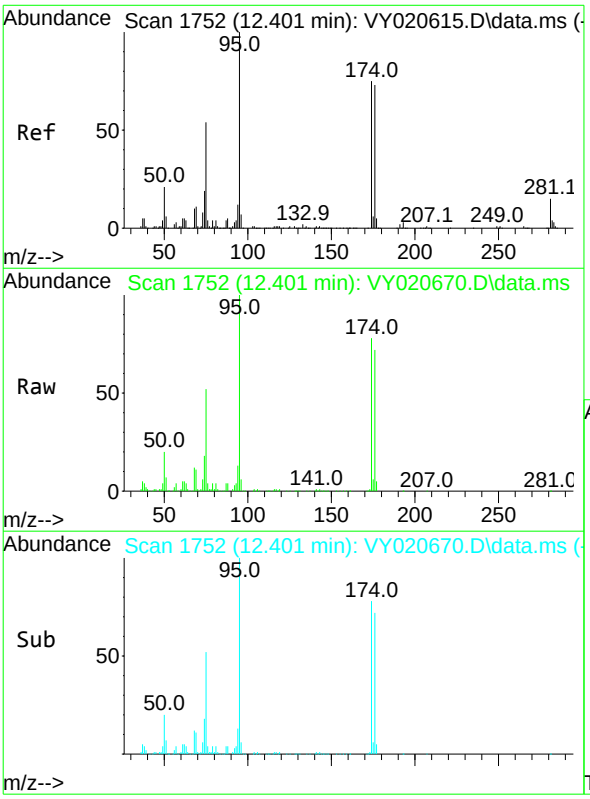

#50
Toluene-d8
Concen: 49.026 ug/l
RT: 10.103 min Scan# 13
Delta R.T. 0.000 min
Lab File: VY020670.D
Acq: 20 Dec 2024 14:57

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion: 98 Resp: 370910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.7 | 52.1 | 78.1 |

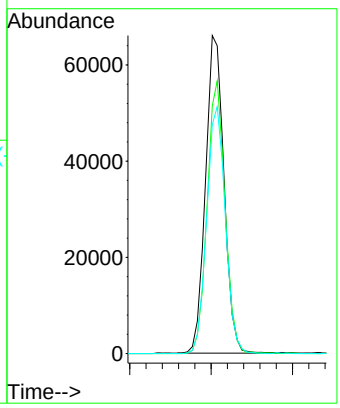


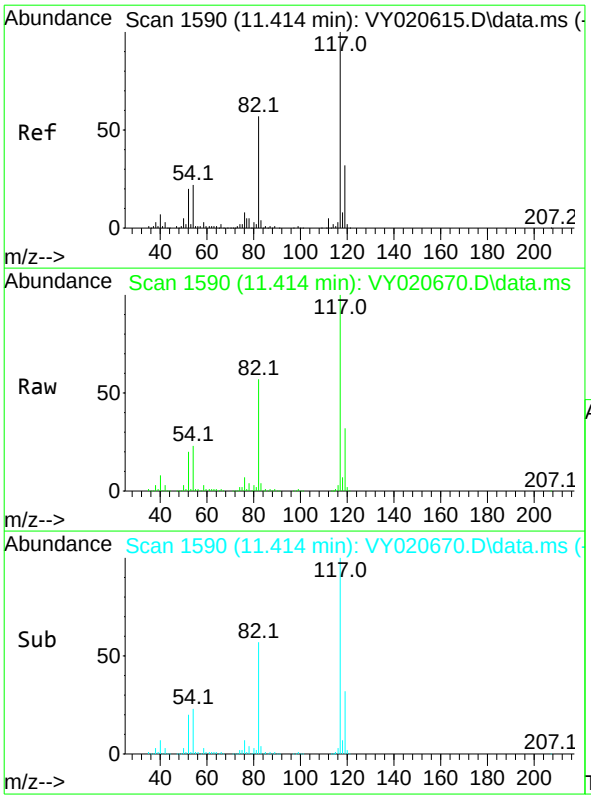




#62
4-Bromofluorobenzene
Concen: 35.046 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020670.D
Acq: 20 Dec 2024 14:57

Tgt Ion: 95 Resp: 103716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 83.5 | 0.0 | 161.8 |
| 176 | 78.5 | 0.0 | 156.6 |



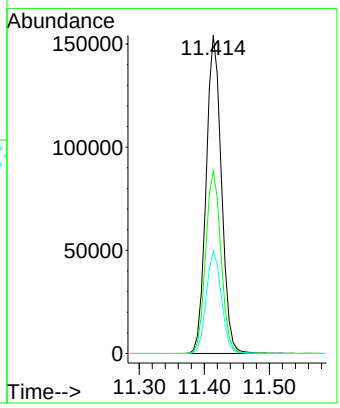


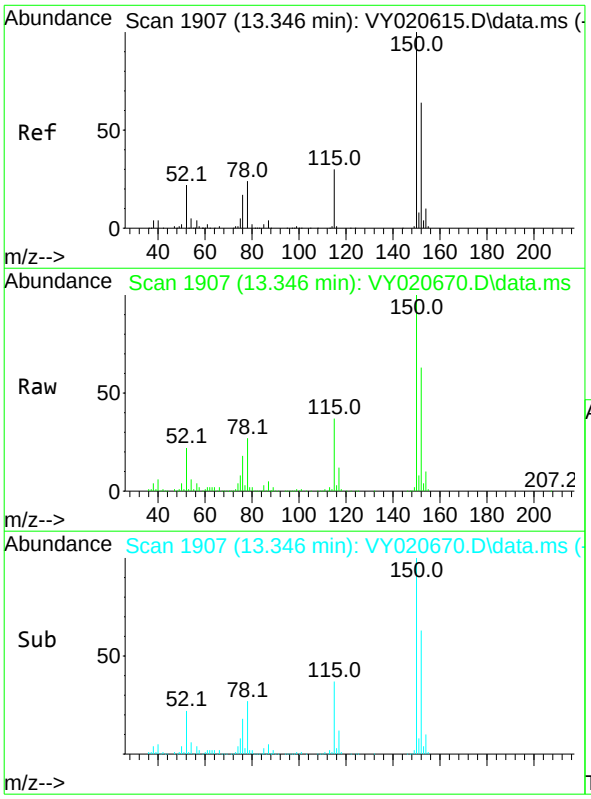

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 15
Delta R.T. 0.000 min
Lab File: VY020670.D
Acq: 20 Dec 2024 14:57

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-2

Tgt Ion:117 Resp: 251459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.4 | 45.8 | 68.6 |
| 119 | 32.3 | 25.3 | 37.9 |

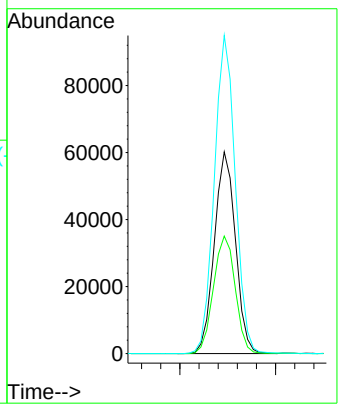



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020670.D
Acq: 20 Dec 2024 14:57

Tgt Ion:152 Resp: 92350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.9 | 30.2 | 90.6 |
| 150 | 156.7 | 0.0 | 355.4 |



Quantitation Report (QT Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020671.D
Acq On : 20 Dec 2024 15:21
Operator : SY/MD
Sample : P5316-03
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Quant Time: Dec 20 18:09:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

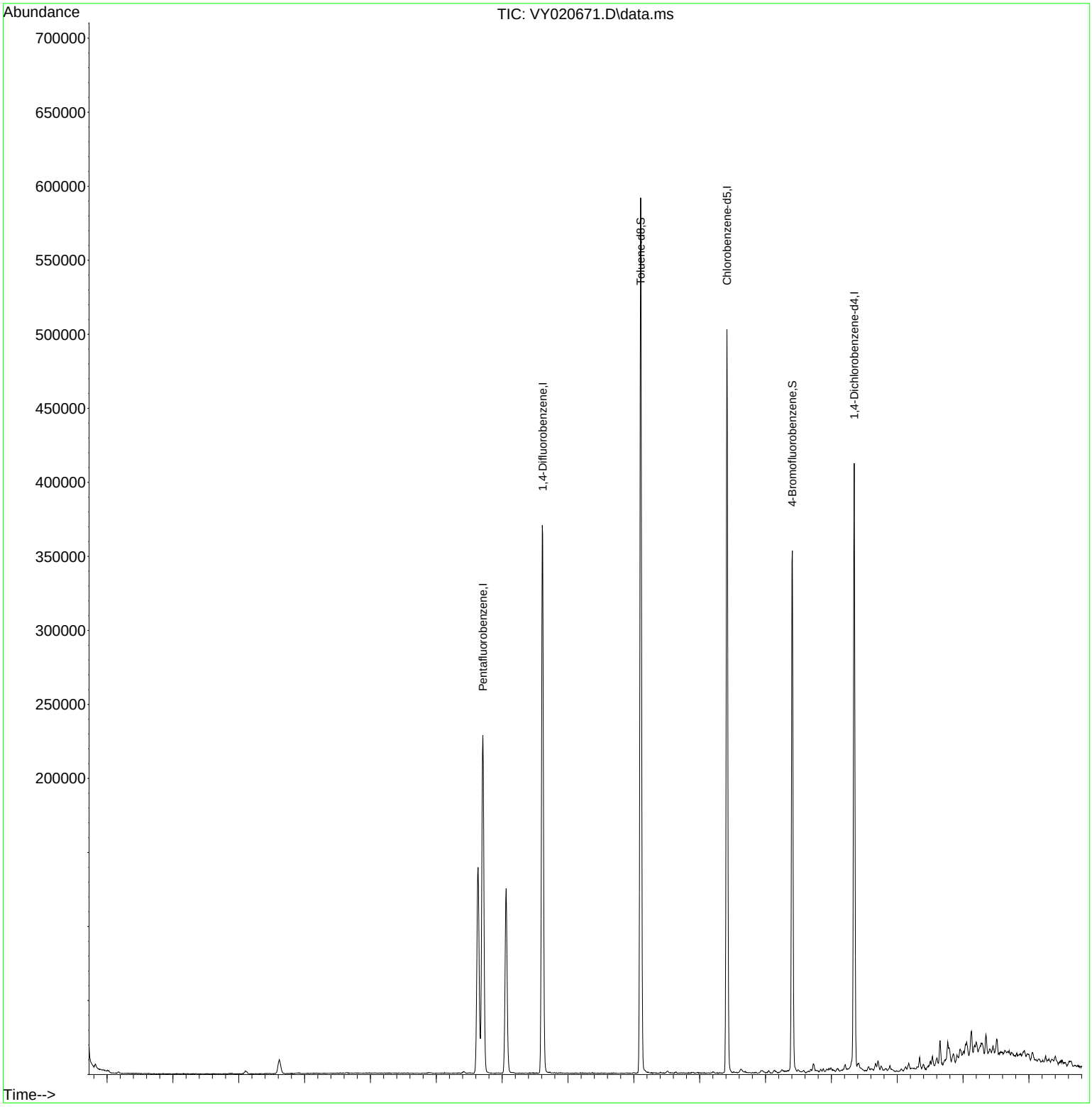
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 176765 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 313918 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 264293 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 100425 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 98670 | 50.967 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 101.940% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 100884 | 45.599 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 91.200% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 377487 | 48.747 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 97.500% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 112544 | 37.154 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 74.300% | | | |
| Target Compounds | | | | | | Qvalue |
| 20) Methylene Chloride | 4.616 | 84 | 7073 | 2.938 | ug/l | 87 |

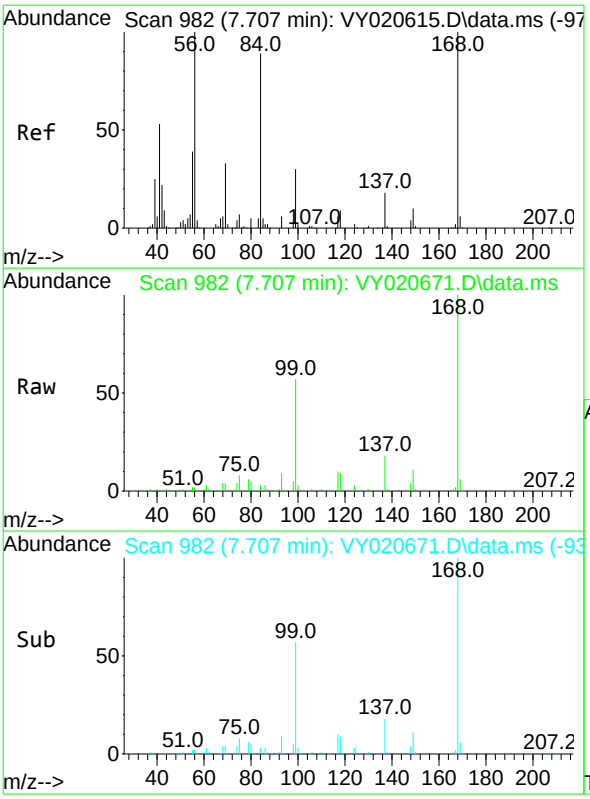
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020671.D
Acq On : 20 Dec 2024 15:21
Operator : SY/MD
Sample : P5316-03
Misc : 5.36g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Quant Time: Dec 20 18:09:22 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



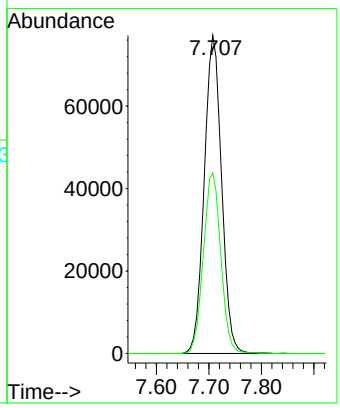


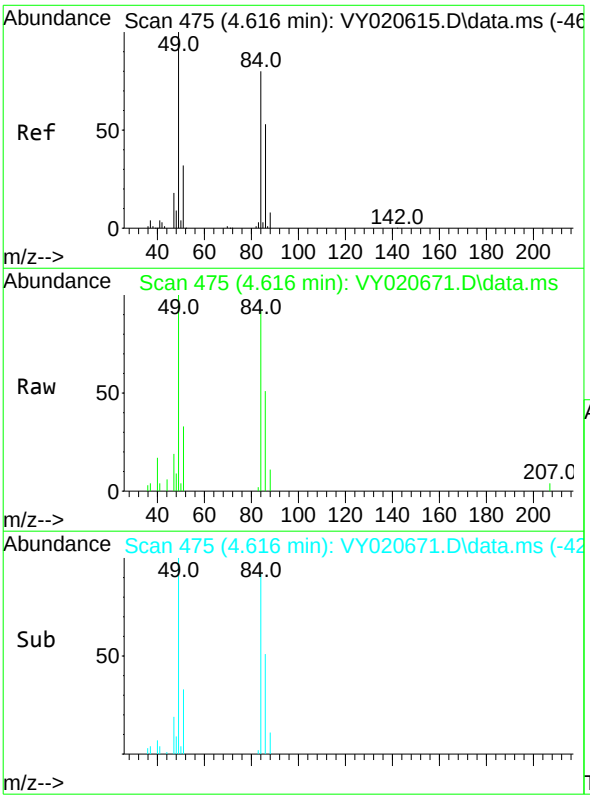

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 98
Delta R.T. 0.000 min
Lab File: VY020671.D
Acq: 20 Dec 2024 15:21

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Tgt Ion:168 Resp: 176765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.8 | 47.0 | 70.6 |

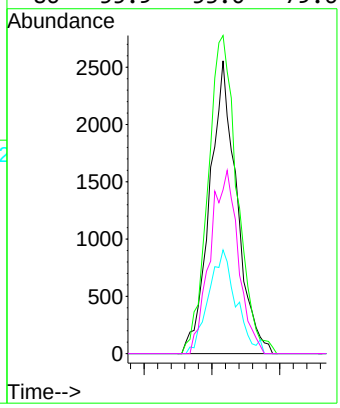


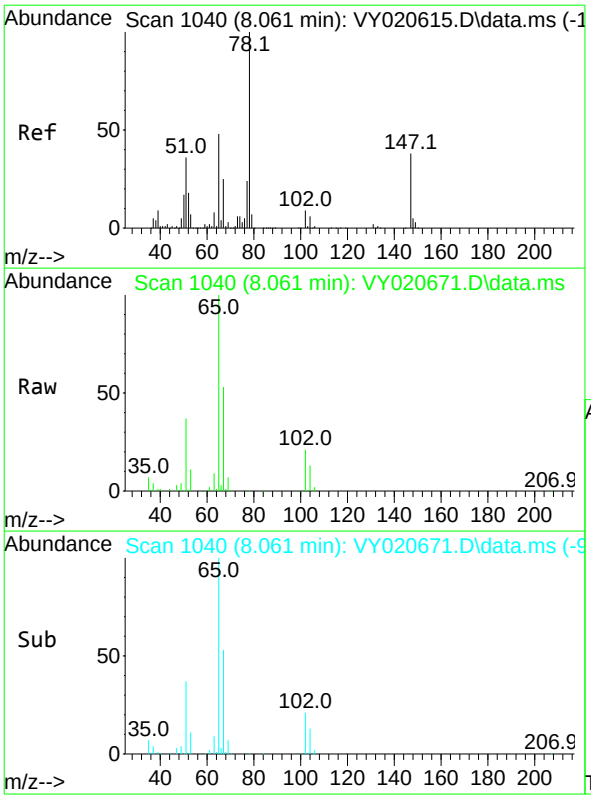




#20
Methylene Chloride
Concen: 2.938 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020671.D
Acq: 20 Dec 2024 15:21

Tgt Ion: 84 Resp: 7073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 108.6 | 100.7 | 151.1 |
| 51 | 35.4 | 32.2 | 48.2 |
| 86 | 55.9 | 53.0 | 79.6 |



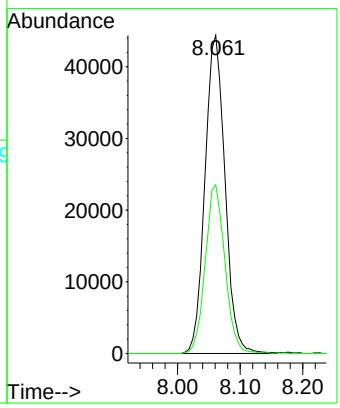


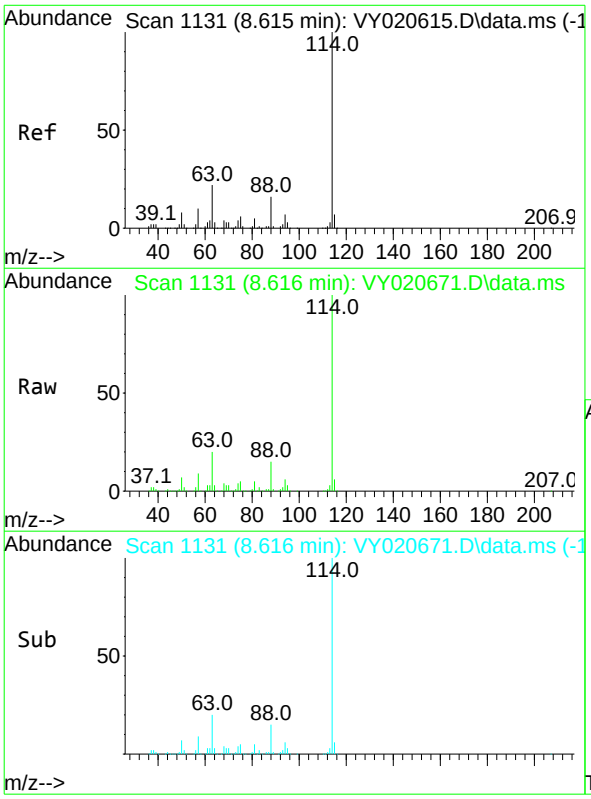

#33
1,2-Dichloroethane-d4
Concen: 50.967 ug/l
RT: 8.061 min Scan# 10
Delta R.T. 0.000 min
Lab File: VY020671.D
Acq: 20 Dec 2024 15:21

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Tgt Ion: 65 Resp: 98670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.2 | 0.0 | 108.0 |

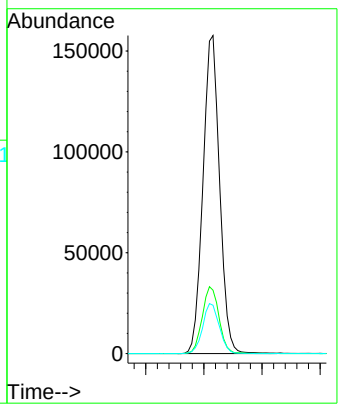


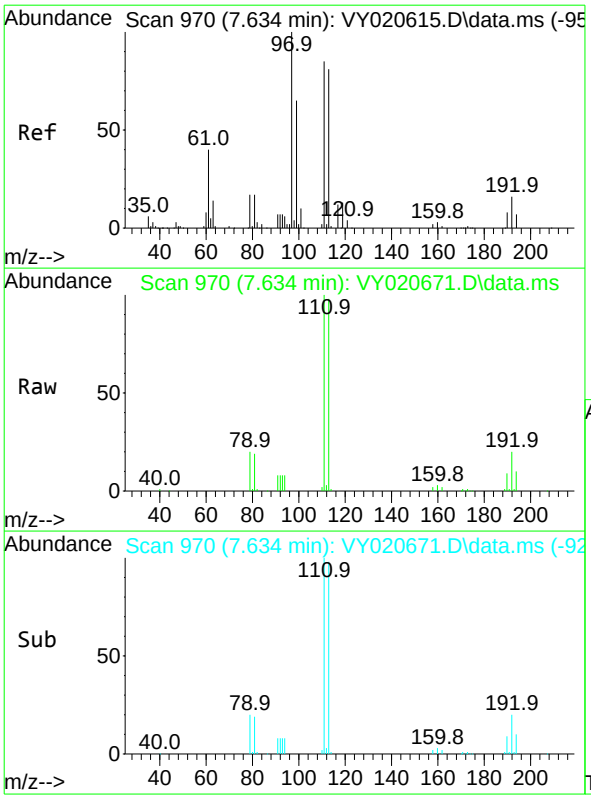




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020671.D
Acq: 20 Dec 2024 15:21

Tgt Ion:114 Resp: 313918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.9 | 0.0 | 44.0 |
| 88 | 15.2 | 0.0 | 32.8 |



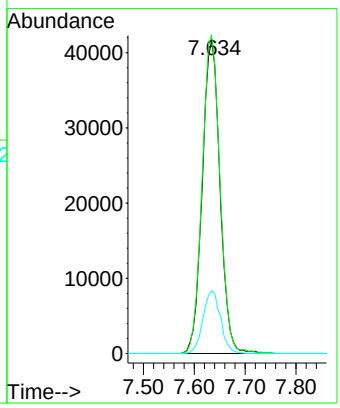


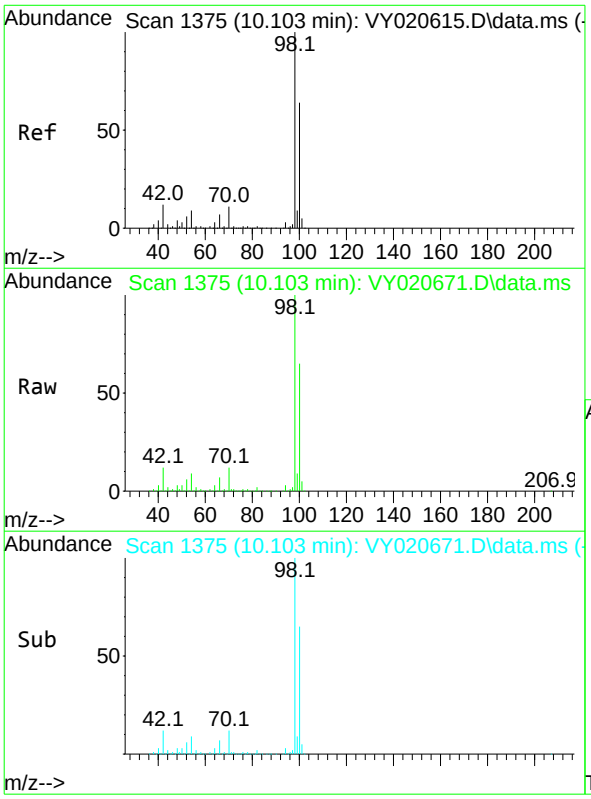

#35
Dibromofluoromethane
Concen: 45.599 ug/l
RT: 7.634 min Scan# 97
Delta R.T. 0.000 min
Lab File: VY020671.D
Acq: 20 Dec 2024 15:21

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Tgt Ion:113 Resp: 100884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 82.9 | 124.3 |
| 192 | 19.8 | 15.7 | 23.5 |

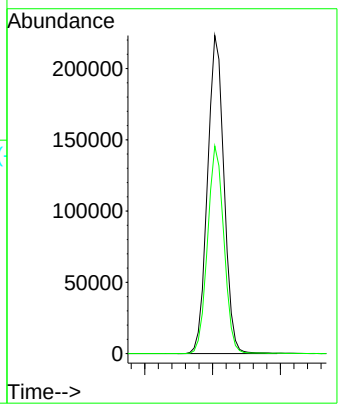


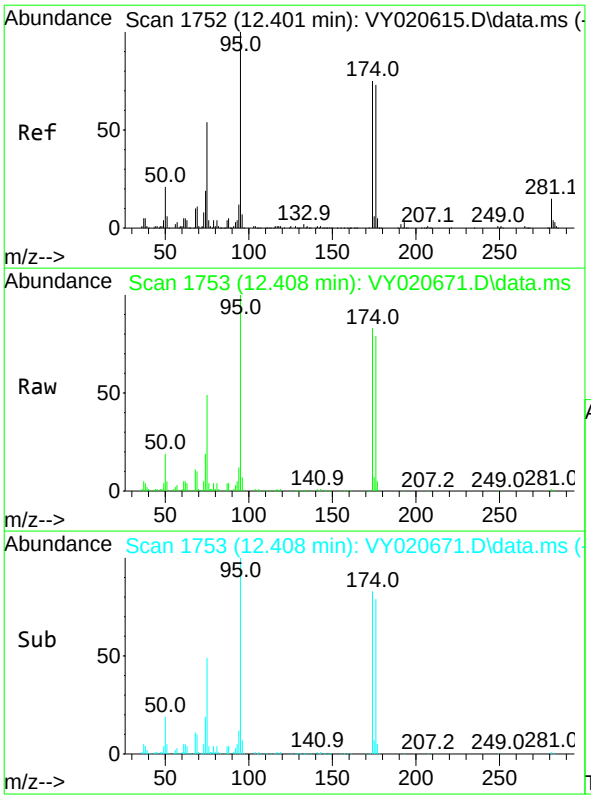




#50
Toluene-d8
Concen: 48.747 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020671.D
Acq: 20 Dec 2024 15:21

Tgt Ion: 98 Resp: 377487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.1 | 78.1 |



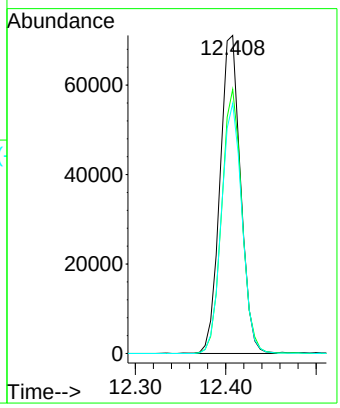


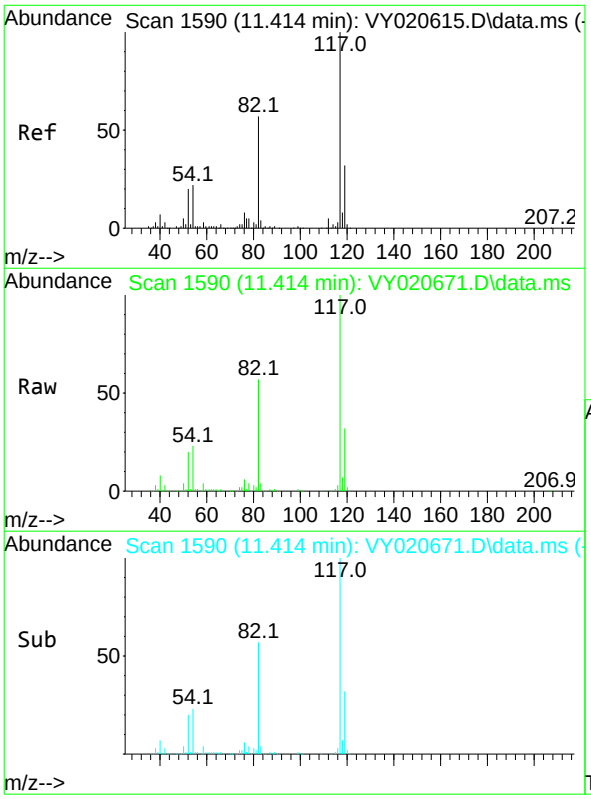

#62
4-Bromofluorobenzene
Concen: 37.154 ug/l
RT: 12.408 min Scan# 17
Delta R.T. 0.006 min
Lab File: VY020671.D
Acq: 20 Dec 2024 15:21

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Tgt Ion: 95 Resp: 112544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.3 | 0.0 | 161.8 |
| 176 | 78.7 | 0.0 | 156.6 |

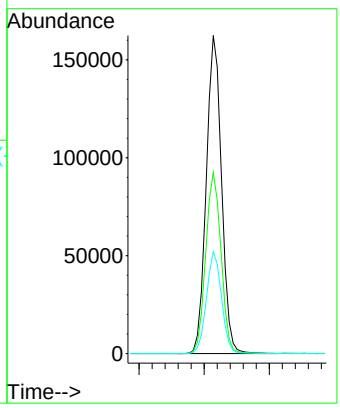


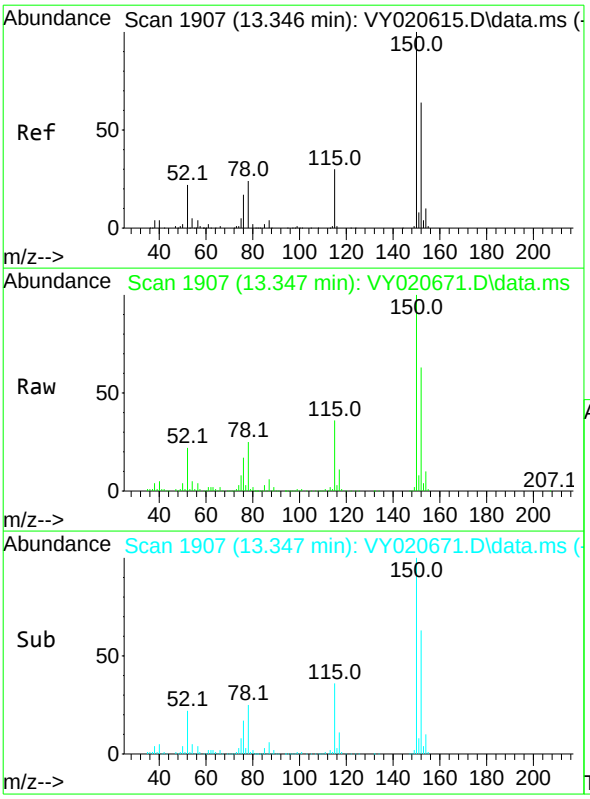




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY020671.D
Acq: 20 Dec 2024 15:21

Tgt Ion:117 Resp: 264293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.0 | 45.8 | 68.6 |
| 119 | 32.0 | 25.3 | 37.9 |



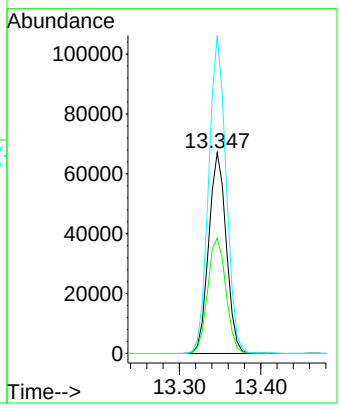



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 19
Delta R.T. 0.000 min
Lab File: VY020671.D
Acq: 20 Dec 2024 15:21

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-3

Tgt Ion:152 Resp: 100425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.5 | 30.2 | 90.6 |
| 150 | 157.6 | 0.0 | 355.4 |



# SHIPPING DOCUMENTS

**CHEMTECH**
CHAIN OF CUSTODY RECORD

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 Fax: (908) 78-8922
www.chemtech.net

Chemtech Project Number: P5316
COC Number:

| CLIENT INFORMATION | PROJECT INFORMATION | BILLING INFORMATION |
|---|---|---|
| COMPANY: Tetra Tech | PROJECT NAME: NWIRP Bethpage | BILL TO: SEE CONTRACT PO# |
| ADDRESS: 4433 Corporation Ln, Suite 300 | PROJECT #: 112G08005-WE13 LOCATION: Soil IDW | ADDRESS: |
| CITY: Virginia Beach STATE: VA ZIP: 23462 | PROJECT MANAGER: Ernie Wu | CITY: STATE: ZIP: |
| ATTENTION: Ernie Wu | E-MAIL: ernie.wu@tetratech.com | ATTENTION: PHONE: |
| PHONE: 757-466-4901 FAX: 757-461-4148 | PHONE: 757-466-4901 FAX: 757-461-4148 | |

**DATA TURNAROUND INFORMATION**

FAX:_____48hrs_____ DAYS*
HARD COPY:_____48hrs_____DAYS*
EDD_____48hrs_____DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

**DATA DELIVERABLE INFORMATION**

- ☐ RESEULTS ONLY
- ☐ RESULTS + QC
- ☐ New Jersey REDUCED
- ☐ New Jersey CLP
- ☐ USEPA CLP
- ☐ New York State ASP "B"
- ☐ New York State ASP "A"
- ☐ Other_____
- ☐ EDD Format_____

**ANALYSIS**

| | NYSDEC 375-6.8(b) VOC | % Solids | NYSDEC 375-6.8(b) Metals | NYSDEC-375-6.8(b) PCB/Pest; NYSDEC 375-6.8(b) SVOCs | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # of Bottles | PRESERVATIVES 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | TT-304-IDWSO-20241217-1 | SOIL | X | | 12/17/24 | 13:00 | 6 | 3 | 1 | 1 | 1 | | | | | | |
| 2. | TT-304-IDWSO-20241217-2 | SOIL | X | | 12/17/24 | 13:05 | 4 | 3 | 1 | | | | | | | | |
| 3. | TT-304-IDWSO-20241217-3 | SOIL | X | | 12/17/24 | 13:10 | 4 | 3 | 1 | | | | | | | | |
| 4. | TT-304-IDWSO-20241217-4 | SOIL | X | | 12/17/24 | 13:15 | 4 | 3 | 1 | | | | | | | | |
| 5. | TT-304-IDWSO-20241217-5 | SOIL | X | | 12/17/24 | 13:20 | 4 | 3 | 1 | | | | | | | | |
| 6. | | | | | | | | | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | |

COMMENTS: <-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

**SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY**

| RELINQUISHED BY SAMPLER | DATE/TIME | RECEIVED BY |
|---|---|---|
| 1. | 12/17/24 1400 | 1. 1530 12-17-24 |
| RELINQUISHED BY | DATE/TIME | RECEIVED BY |
| 2. | | 2. |
| RELINQUISHED BY | DATE/TIME | RECEIVED FOR LAB BY |
| 3. | 12-17-24 1830 | 3. |

**Conditions of bottles or coolers at receipt:** ☐ Compliant ☐ Non Compliant ☐ Cooler Temp 2.9c
MeOH extraction requires an additional 4oz. Jar for percent solid ☐ Ice in Cooler?:_____
**Comments: 48 hrs TAT** - CTO-WE13 Drilling Soil IDW Sampling - NYSDEC 375-6.8(b) VOC

Page 1 of 1

**SHIPPED VIA:** CLIENT: ☐ Hand Delivered ☐ Overnight
CHEMTECH: ☐ Picked Up ☐ Overnight

**Shipment Complete** ☐ YES ☐ NO

**WHITE** - CHEMTECH COPYFOR RETURN TO CLIENT **YELLOW** - CHEMTECH COPY **PINK** - SAMPLER COPY

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

# Laboratory Certification

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

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** P5316 TETR06
**Client Name :** Tetra Tech NUS, Inc.
**Client Contact :** Ernie Wu
**Invoice Name :** Tetra Tech NUS, Inc.
**Invoice Contact :** Ernie Wu

**Order Date :** 12/17/2024 3:44:00 PM
**Project Name :** CTO WE13
**Receive DateTime :** 12/17/2024 ~~12:00:00~~ 18:30 AM
**Purchase Order :**

**Project Mgr :**
**Report Type :** Level 4
**EDD Type :** ADAPT
**Hard Copy Date :**
**Date Signoff :**

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|---|
| P5316-01 | TT-304-IDWSO-20241217-1 | Solid | 12/17/2024 | 13:00 | | | | | | |
| | | | | | VOCMS Group4 | | 8260D | ~~10~~ Bus. Days | 2 days | |
| P5316-02 | TT-304-IDWSO-20241217-2 | Solid | 12/17/2024 | 13:05 | | | | | | |
| | | | | | VOCMS Group4 | | 8260D | ~~10~~ Bus. Days | | |
| P5316-03 | TT-304-IDWSO-20241217-3 | Solid | 12/17/2024 | 13:10 | | | | | | |
| | | | | | VOCMS Group4 | | 8260D | ~~10~~ Bus. Days | | |
| P5316-04 | TT-304-IDWSO-20241217-4 | Solid | 12/17/2024 | 13:15 | | | | | | |
| | | | | | VOCMS Group4 | | 8260D | ~~10~~ Bus. Days | | |
| ~~P5316-05~~ | ~~TT-304-IDWSO-20241217-5~~ | ~~Solid~~ | ~~12/17/2024~~ | ~~13:20~~ | | | | | | |
| | | | | | ~~VOCMS Group4~~ | | ~~8260D~~ | ~~10 Bus. Days~~ | | |

**Relinguished By :** [signature]
**Date / Time :** 12-18-24 1045

**Received By :** [signature]
**Date / Time :** 12-17-24 10:45

**Storage Area :** VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 170610 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 263150 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 228550 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 127910 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 21133 | 11.310 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 22.620%# | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 20262 | 10.925 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 21.860%# | | |
| 50) Toluene-d8 | 10.103 | 98 | 69155 | 10.653 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 21.300%# | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 28323 | 11.154 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 22.300%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 23136 | 10.857 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 16735 | 10.599 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 15133 | 10.297 | ug/l | 98 |
| 5) Bromomethane | 2.598 | 94 | 9934 | 10.516 | ug/l | 95 |
| 6) Chloroethane | 2.732 | 64 | 9308 | 10.249 | ug/l | 93 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 33462 | 10.882 | ug/l | 97 |
| 8) Diethyl Ether | 3.458 | 74 | 11799 | 10.941 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 24382 | 11.062 | ug/l | 99 |
| 10) Methyl Iodide | 4.007 | 142 | 27400 | 11.166 | ug/l | 96 |
| 11) Tert butyl alcohol | 4.842 | 59 | 18830 | 72.145 | ug/l # | 90 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 23914 | 11.182 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 6650 | 75.266 | ug/l | 100 |
| 14) Allyl chloride | 4.385 | 41 | 42157 | 11.250 | ug/l | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 30489 | 59.095 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 24059 | 59.918 | ug/l | 92 |
| 17) Carbon Disulfide | 4.110 | 76 | 79000 | 11.348 | ug/l | 98 |
| 18) Methyl Acetate | 4.391 | 43 | 16164 | 12.714 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 61370 | 11.118 | ug/l | 99 |
| 20) Methylene Chloride | 4.622 | 84 | 25848 | 11.126 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 26315 | 10.969 | ug/l | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 83653 | 10.997 | ug/l | 94 |
| 23) Vinyl Acetate | 5.964 | 43 | 241892 | 56.147 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 47807 | 10.728 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 41782 | 60.169 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 46620 | 11.067 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 29841 | 10.812 | ug/l | 97 |
| 28) Bromochloromethane | 7.250 | 49 | 14872 | 9.894 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.262 | 42 | 26233 | 59.842 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 60327 | 9.156 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 47368 | 11.117 | ug/l # | 93 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 44299 | 10.820 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 36347 | 10.748 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 19950 | 12.541 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 40394 | 10.796 | ug/l | 95 |
| 39) Methylcyclohexane | 9.103 | 83 | 46462 | 10.541 | ug/l | 97 |
| 40) Benzene | 8.079 | 78 | 108150 | 10.910 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 9800 | 11.653 | ug/l | | 95 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 28739 | 10.931 | ug/l | | 98 |
| 43) Isopropyl Acetate | 8.195 | 43 | 35299 | 11.721 | ug/l | # | 88 |
| 44) Trichloroethene | 8.866 | 130 | 26388 | 10.834 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 24889 | 10.743 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 13764 | 11.242 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 35352 | 10.689 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 16060 | 11.218 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 3340 | 237.872 | ug/l | # | 95 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 95663 | 60.180 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 65651 | 10.657 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 33566 | 10.892 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 39068 | 10.698 | ug/l | | 93 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 18100 | 11.181 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.438 | 69 | 25543 | 10.877 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 32029 | 11.099 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 51913 | 52.537 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 59126 | 57.933 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 23549 | 10.878 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 16807 | 11.162 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 23098 | 10.744 | ug/l | | 96 |
| 65) Chlorobenzene | 11.438 | 112 | 68621 | 10.738 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.511 | 131 | 24180 | 11.065 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 125547 | 10.649 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 94273 | 21.506 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 43697 | 10.684 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 72514 | 10.612 | ug/l | | 99 |
| 71) Bromoform | 12.127 | 173 | 13822 | 11.250 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 118590 | 10.624 | ug/l | | 99 |
| 74) N-amyl acetate | 12.066 | 43 | 28977 | 11.093 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 20569 | 11.352 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 27338 | 20.751 | ug/l | # | 100 |
| 77) Bromobenzene | 12.530 | 156 | 25752 | 10.591 | ug/l | | 97 |
| 78) n-propylbenzene | 12.597 | 91 | 142396 | 10.588 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 79651 | 10.527 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 94672 | 10.453 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 6908 | 10.913 | ug/l | | 93 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 81482 | 10.380 | ug/l | | 98 |
| 83) tert-Butylbenzene | 12.993 | 119 | 86405 | 10.534 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 93630 | 10.539 | ug/l | | 98 |
| 85) sec-Butylbenzene | 13.176 | 105 | 125189 | 10.497 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 101690 | 10.342 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 50691 | 10.561 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 50665 | 10.658 | ug/l | | 97 |
| 89) n-Butylbenzene | 13.615 | 91 | 96052 | 10.307 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 20324 | 10.430 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 44391 | 10.674 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 3406 | 11.579 | ug/l | | 91 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 24954 | 9.920 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 16620 | 10.107 | ug/l | | 97 |
| 95) Naphthalene | 15.145 | 128 | 42698 | 9.901 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 20408 | 9.602 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

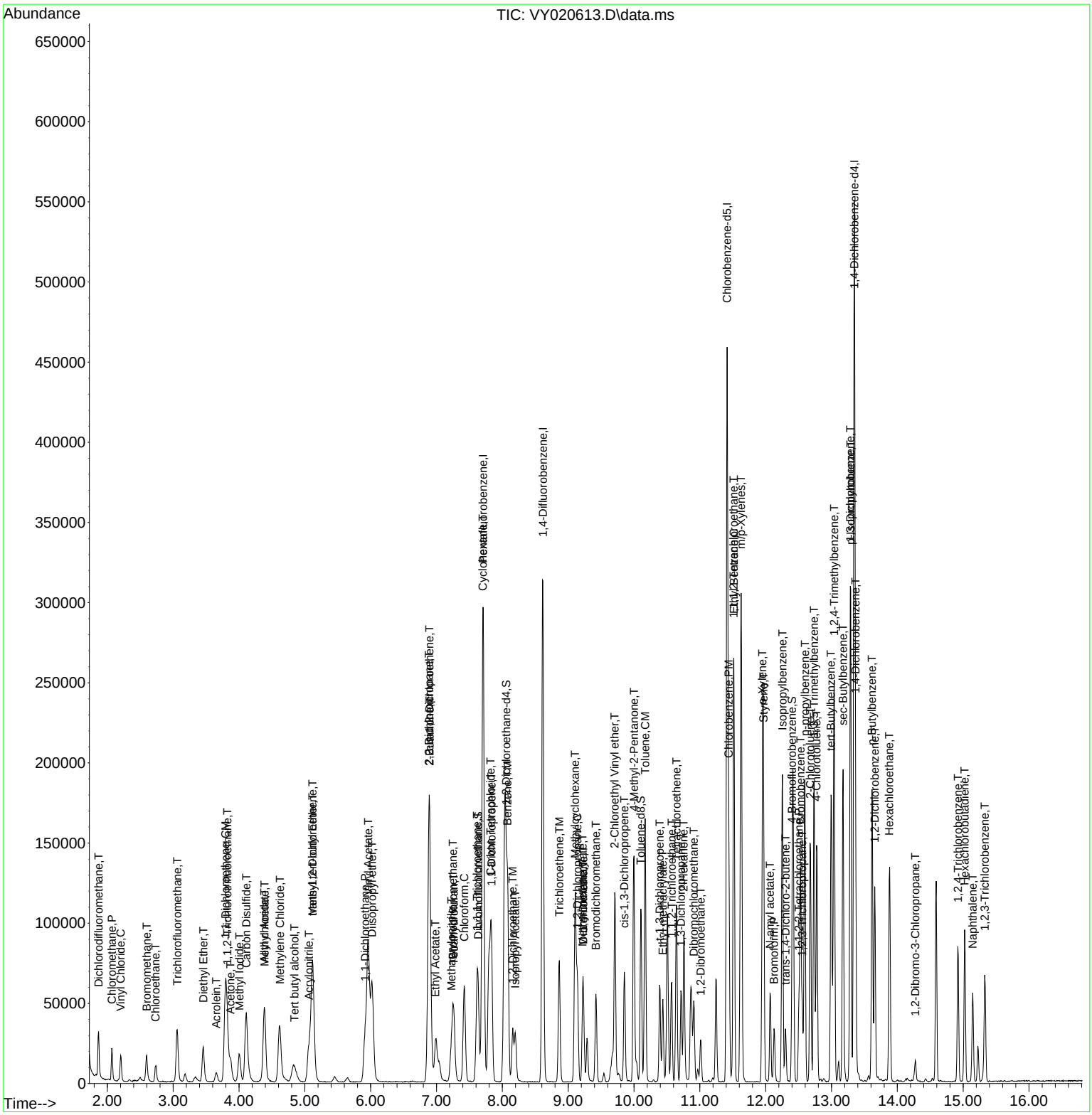
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

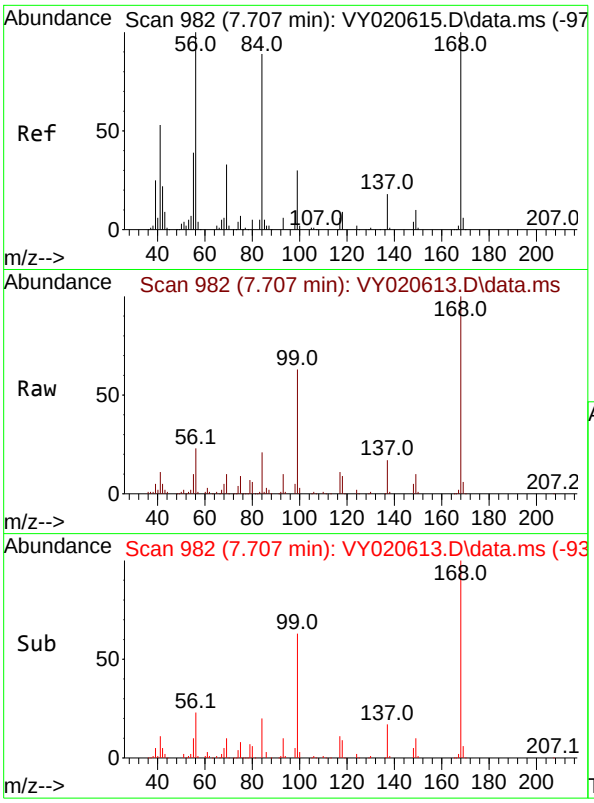
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020613.D
Acq On : 17 Dec 2024 10:01
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Dec 18 04:50:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration



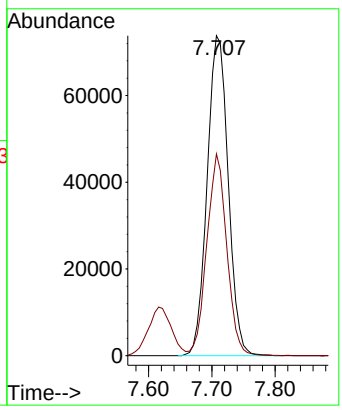


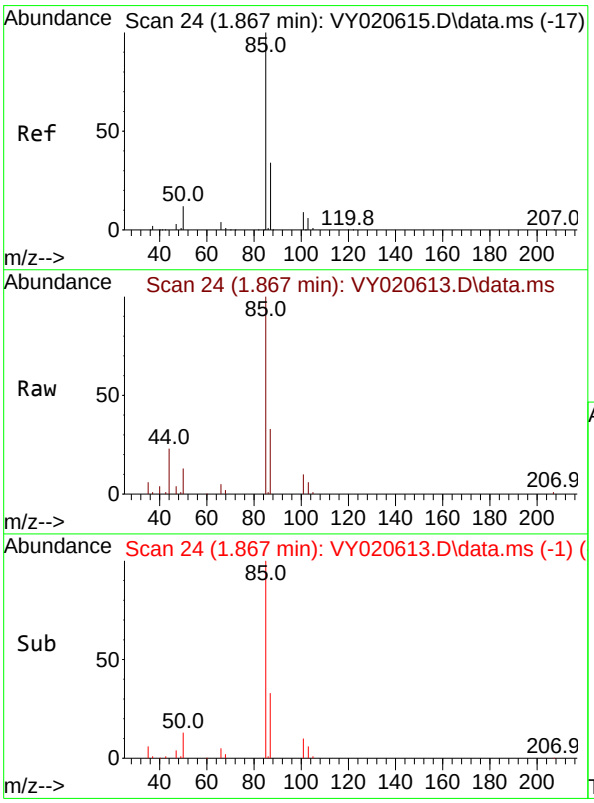

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:168 Resp: 170610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.9 | 47.0 | 70.6 |

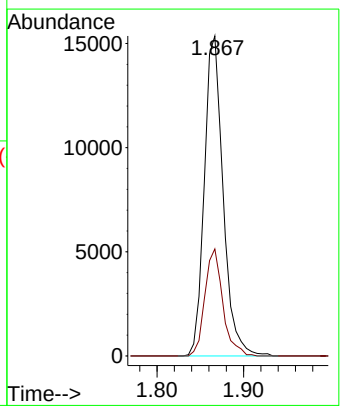


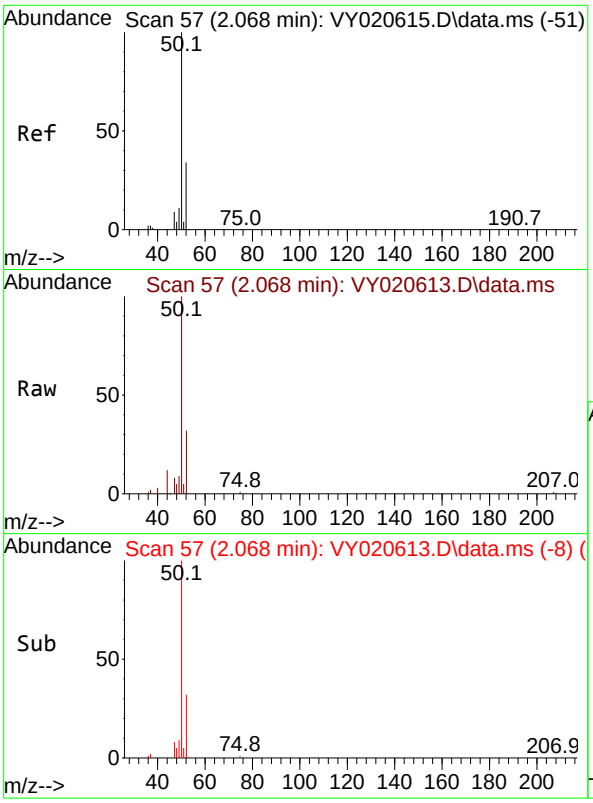




#2
Dichlorodifluoromethane
Concen: 10.857 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 85 Resp: 23136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 16.8 | 50.3 |



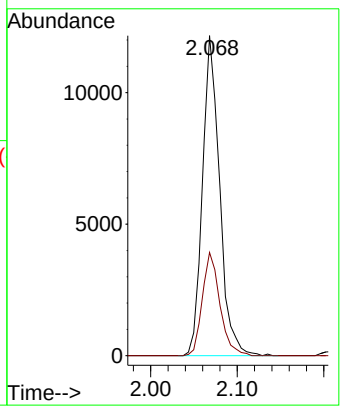


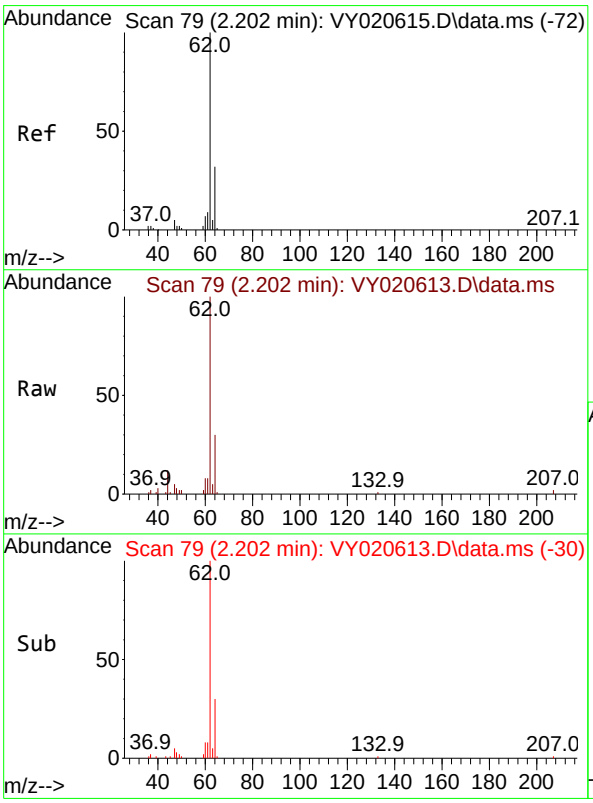

#3
Chloromethane
Concen: 10.599 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 50 Resp: 16735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.3 | 26.8 | 40.2 |

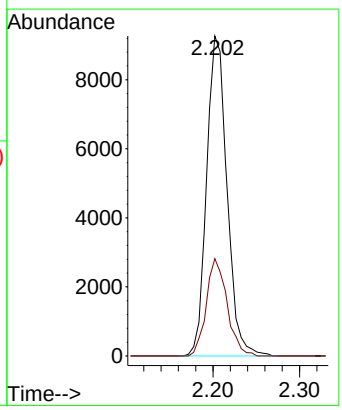


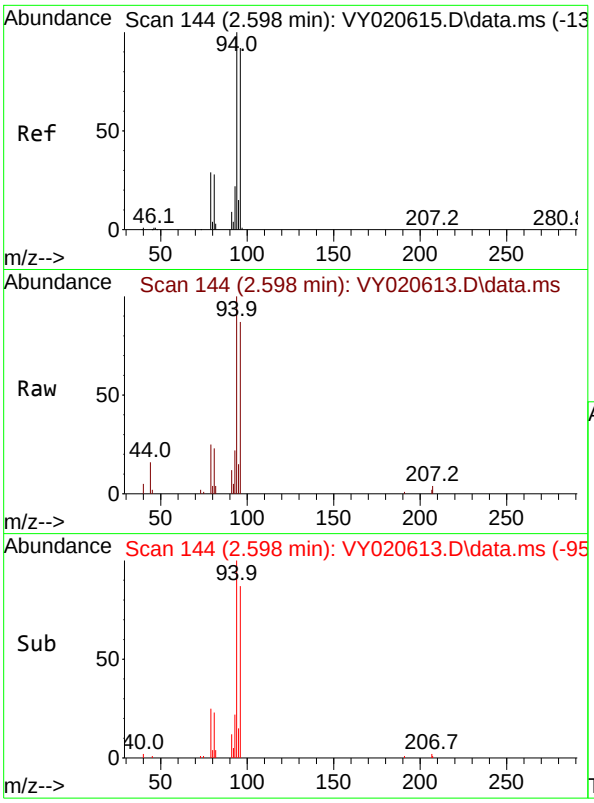




#4
Vinyl Chloride
Concen: 10.297 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 62 Resp: 15133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.4 | 25.3 | 37.9 |



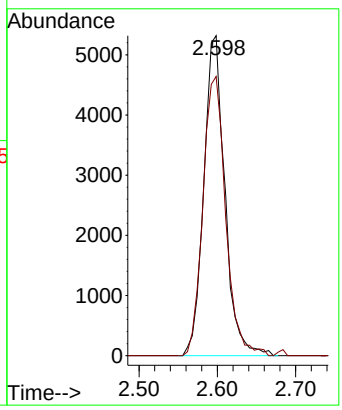


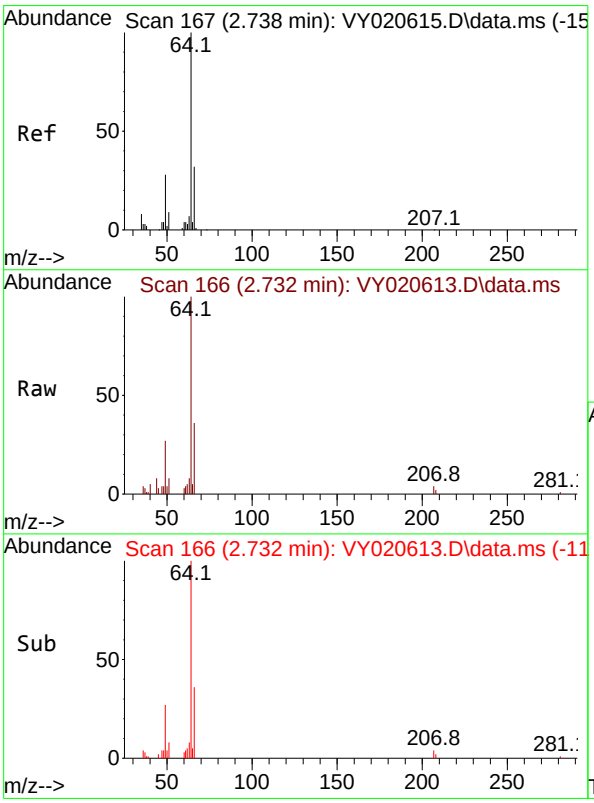

#5
Bromomethane
Concen: 10.516 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 94 Resp: 9934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 87.3 | 73.8 | 110.6 |

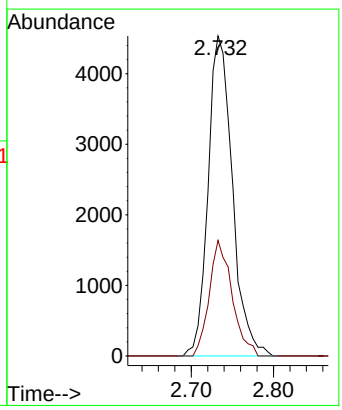


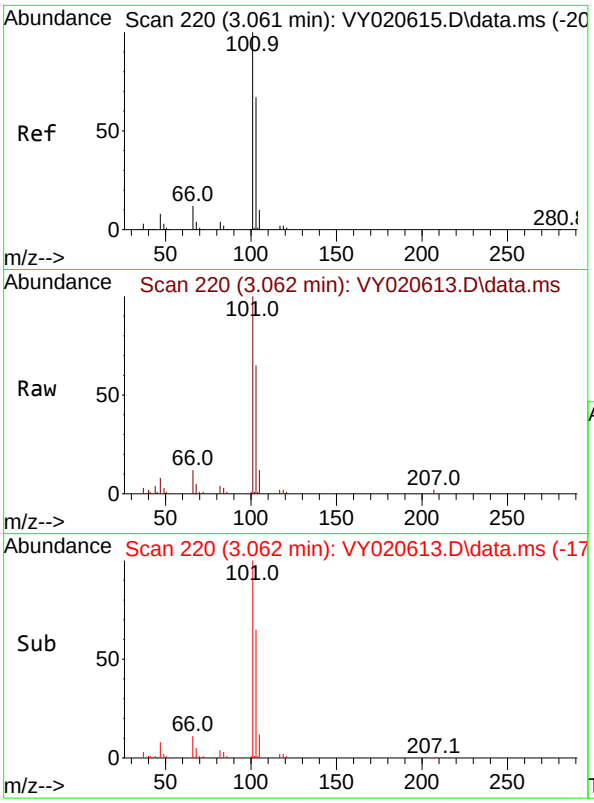




#6
Chloroethane
Concen: 10.249 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 64 Resp: 9308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.1 | 25.8 | 38.6 |



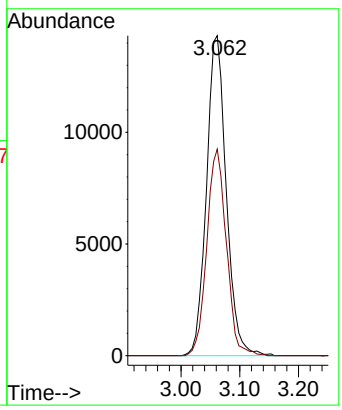


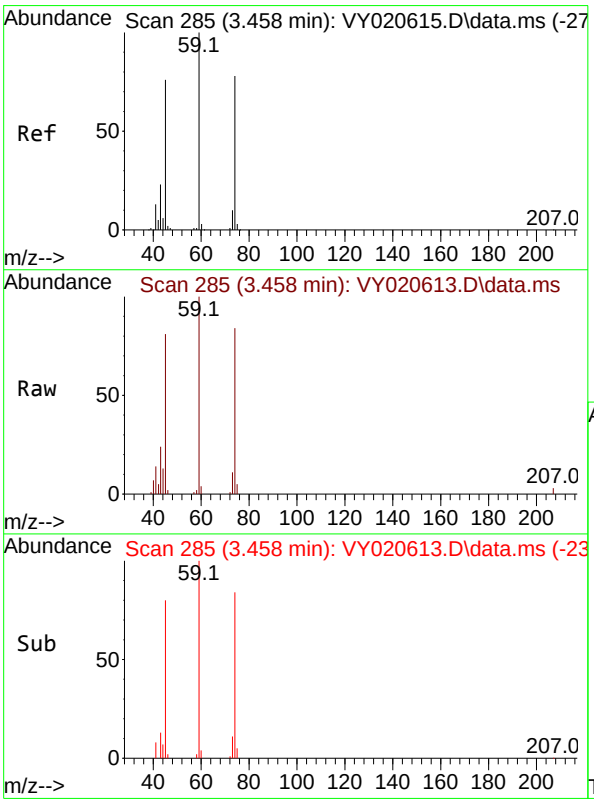

#7
Trichlorofluoromethane
Concen: 10.882 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:101 Resp: 33462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.6 | 53.4 | 80.0 |

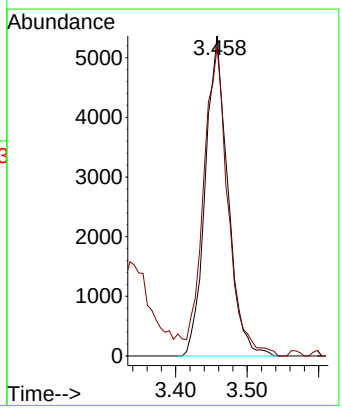


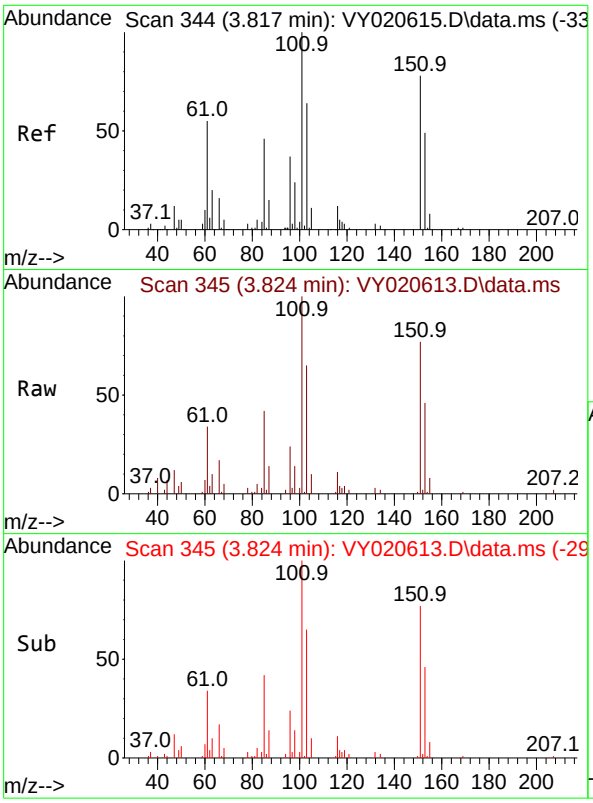




#8
Diethyl Ether
Concen: 10.941 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 74 Resp: 11799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 103.6 | 49.0 | 147.2 |



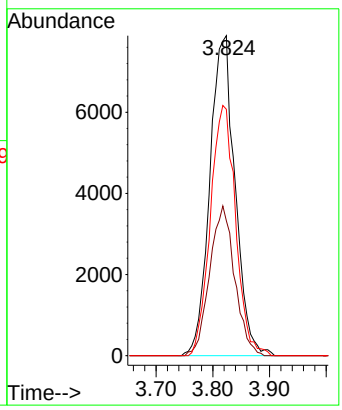


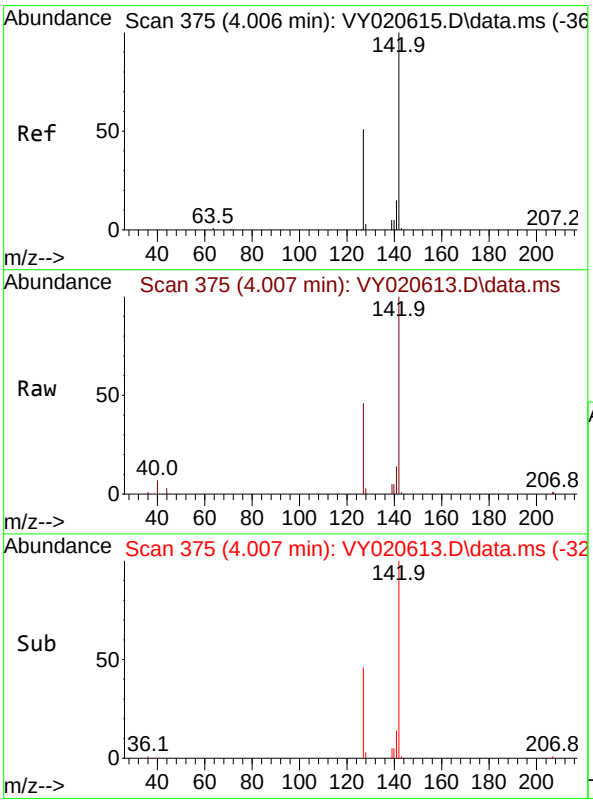

#9
1,1,2-Trichlorotrifluoroethane
Concen: 11.062 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:101 Resp: 24382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.3 | 36.6 | 54.8 |
| 151 | 78.2 | 61.5 | 92.3 |

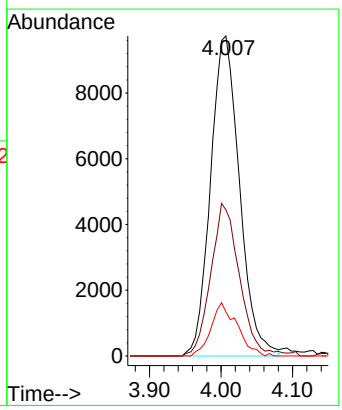


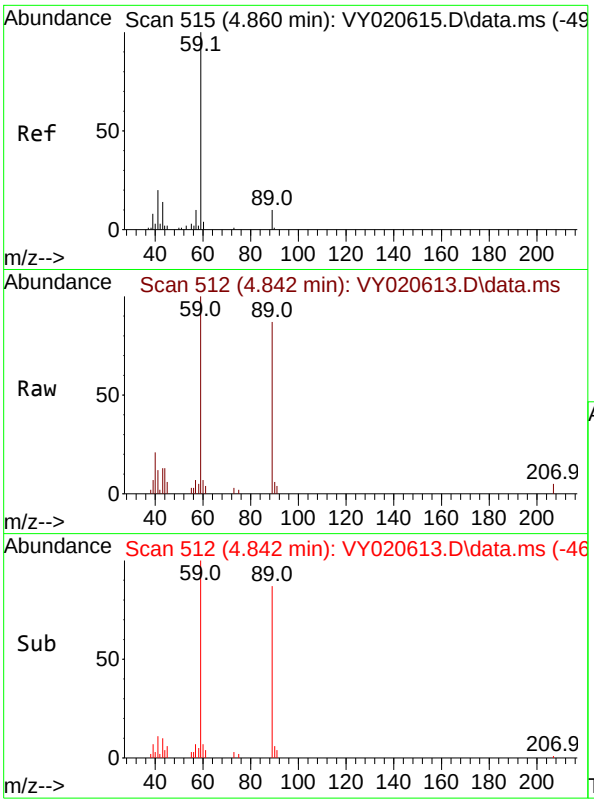




#10
Methyl Iodide
Concen: 11.166 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:142 Resp: 27400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 47.4 | 40.6 | 61.0 |
| 141 | 15.0 | 11.7 | 17.5 |



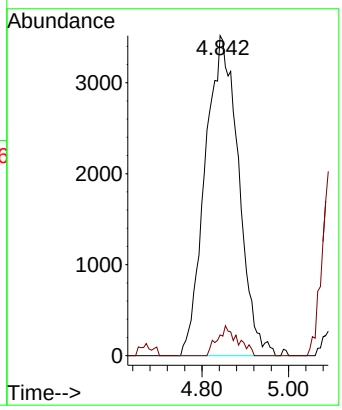


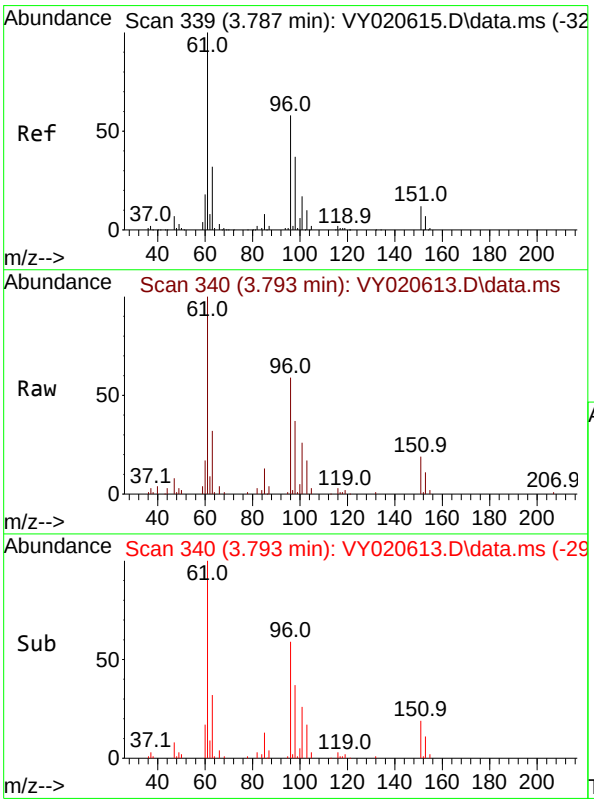

#11
Tert butyl alcohol
Concen: 72.145 ug/l
RT: 4.842 min Scan# 5
Delta R.T. -0.018 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 59 Resp: 18830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 5.7 | 7.4 | 11.0# |

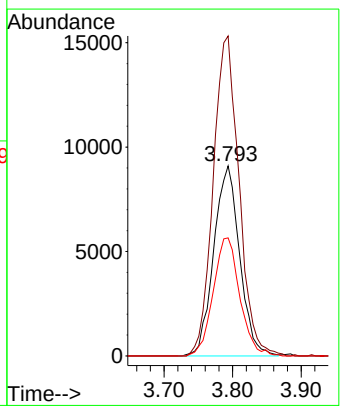


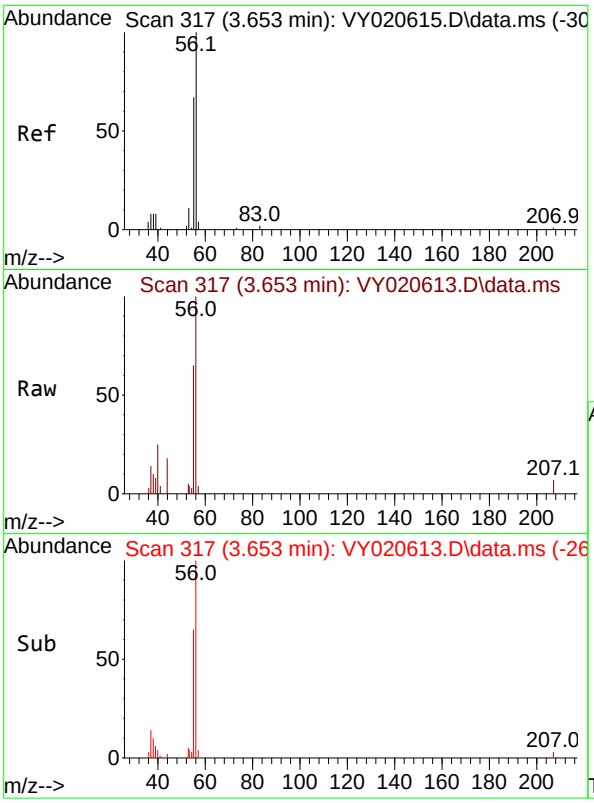




#12
1,1-Dichloroethene
Concen: 11.182 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 96 Resp: 23914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 168.3 | 136.9 | 205.3 |
| 98 | 62.2 | 50.2 | 75.4 |



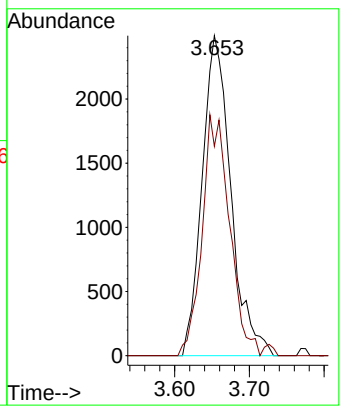


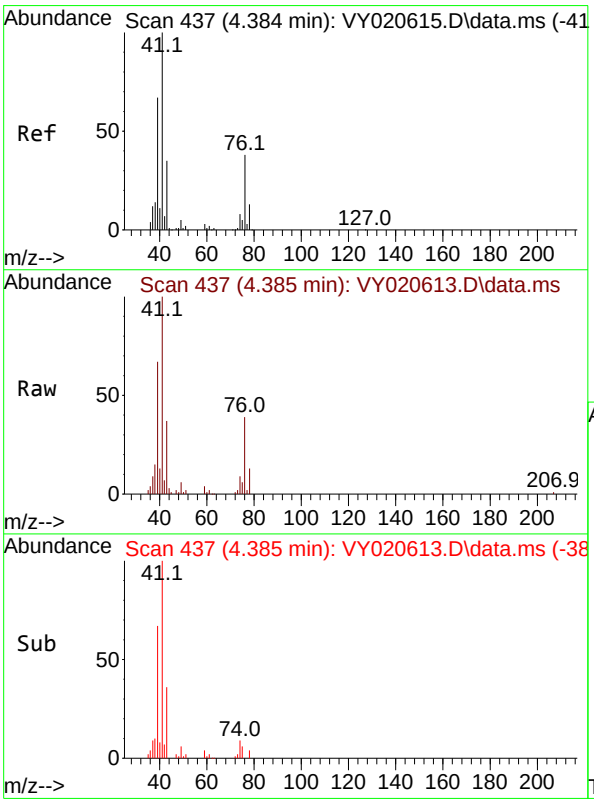

#13
Acrolein
Concen: 75.266 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 56 Resp: 6650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.7 | 57.5 | 86.3 |

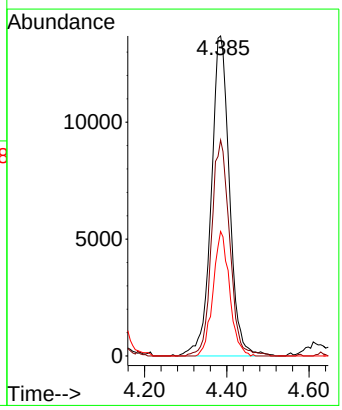


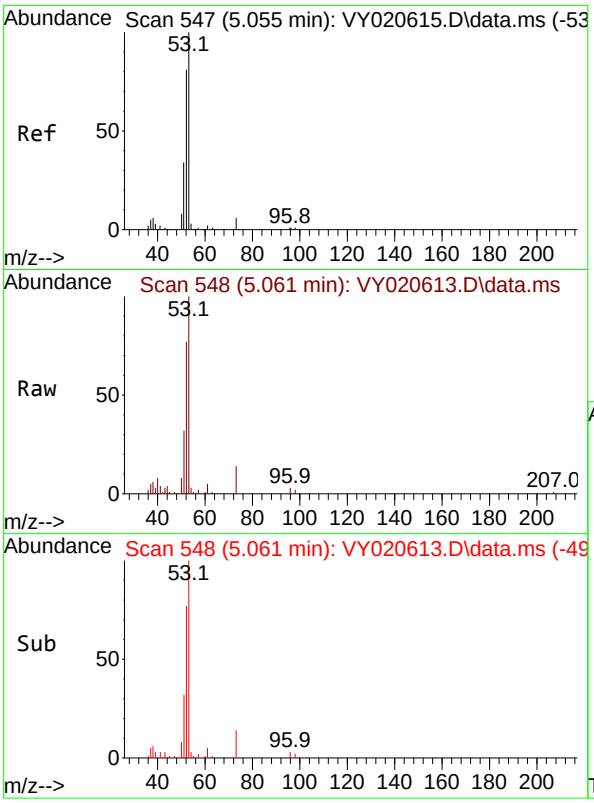




#14
Allyl chloride
Concen: 11.250 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 41 Resp: 42157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.0 | 53.0 | 79.4 |
| 76 | 35.2 | 29.5 | 44.3 |



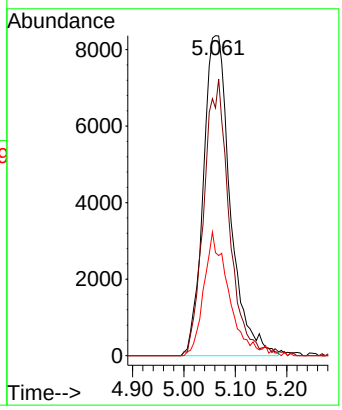


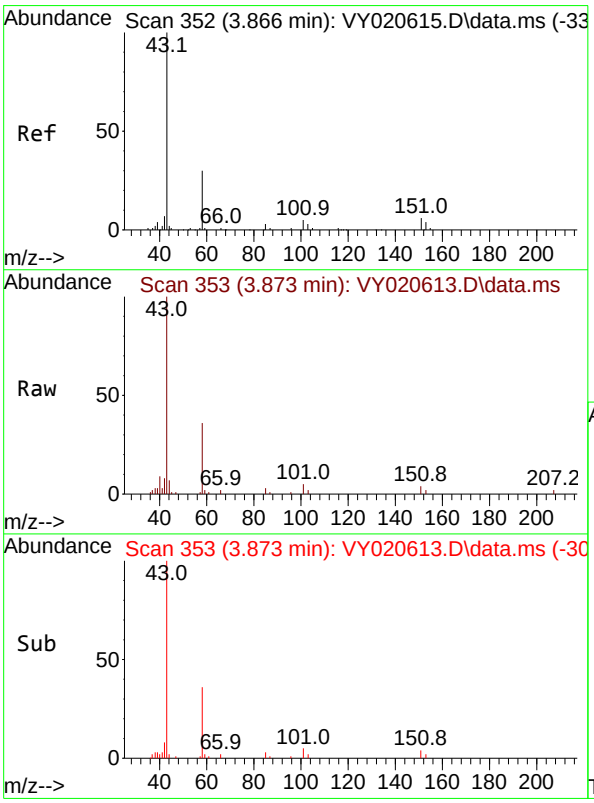

#15
Acrylonitrile
Concen: 59.095 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 53 Resp: 30489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.7 | 64.5 | 96.7 |
| 51 | 35.1 | 29.4 | 44.0 |

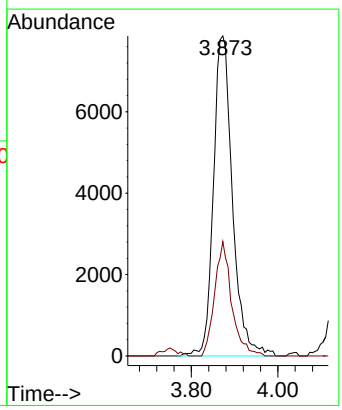


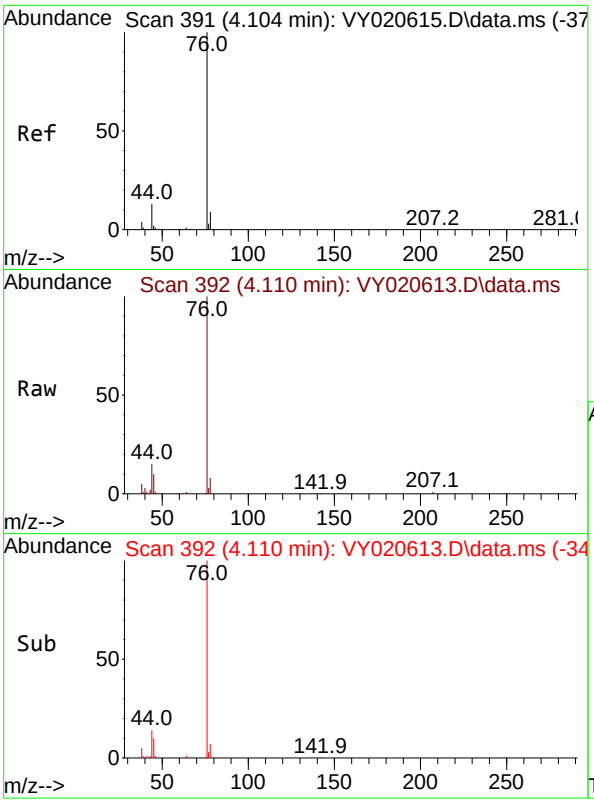




#16
Acetone
Concen: 59.918 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.007 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 24059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.8 | 25.0 | 37.6 |



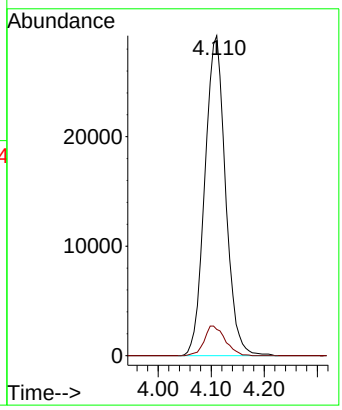


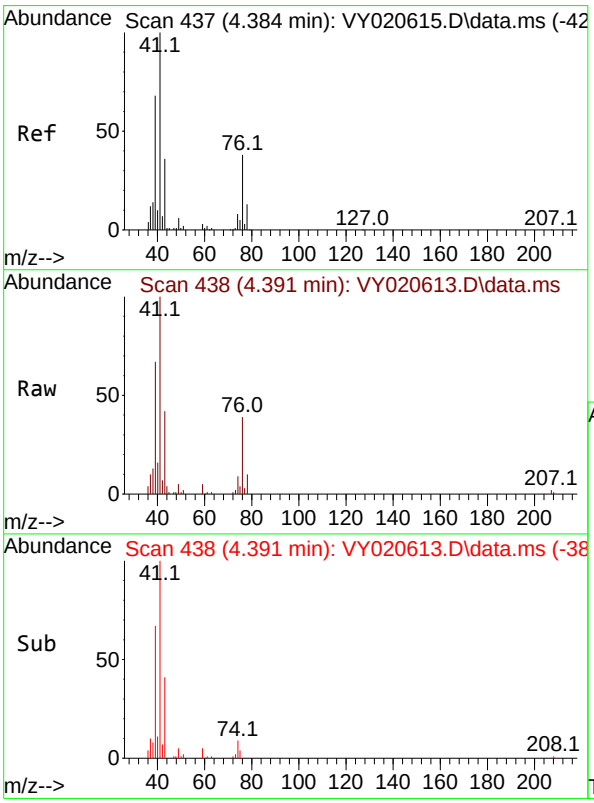

#17
Carbon Disulfide
Concen: 11.348 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 76 Resp: 79000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.2 | 7.2 | 10.8 |

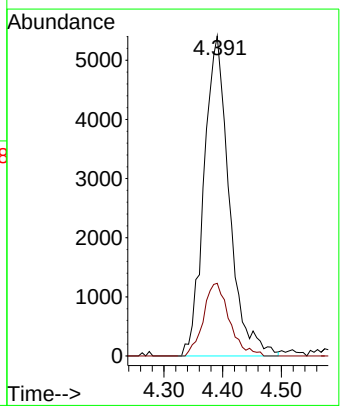


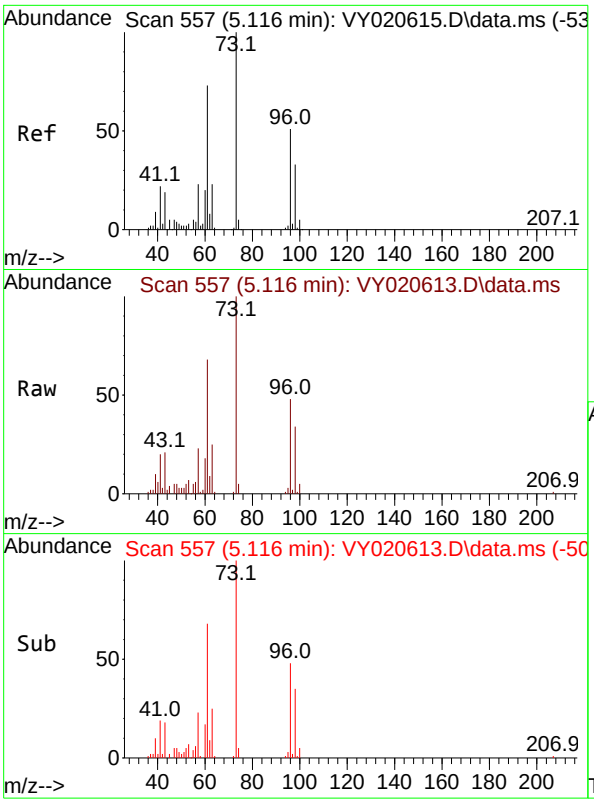




#18
Methyl Acetate
Concen: 12.714 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 16164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.3 | 19.2 | 28.8 |



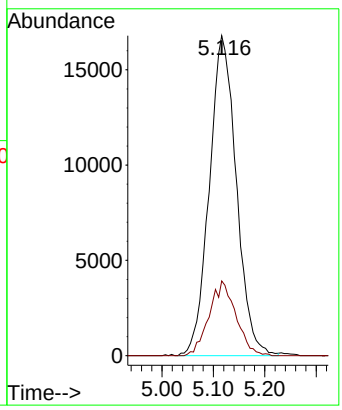


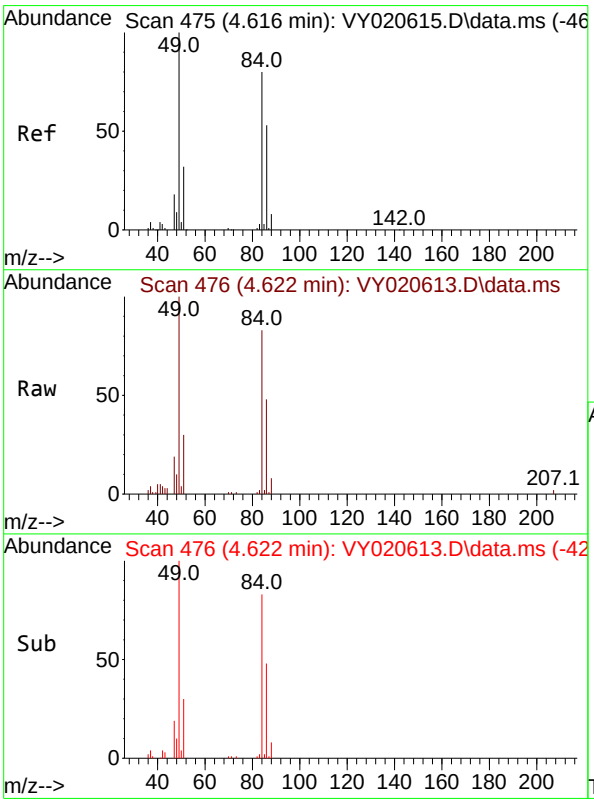

#19
Methyl tert-butyl Ether
Concen: 11.118 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 73 Resp: 61370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.4 | 18.5 | 27.7 |

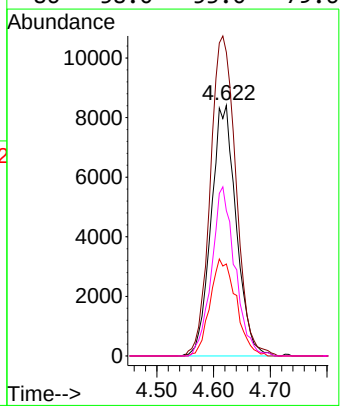


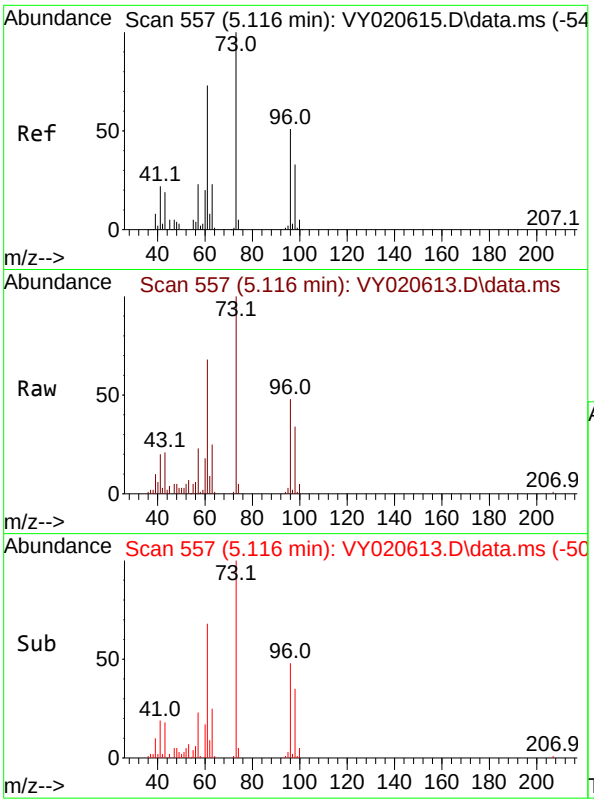




#20
Methylene Chloride
Concen: 11.126 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 84 Resp: 25848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 121.1 | 100.7 | 151.1 |
| 51 | 36.7 | 32.2 | 48.2 |
| 86 | 58.0 | 53.0 | 79.6 |



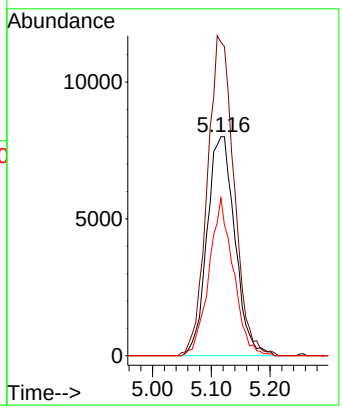


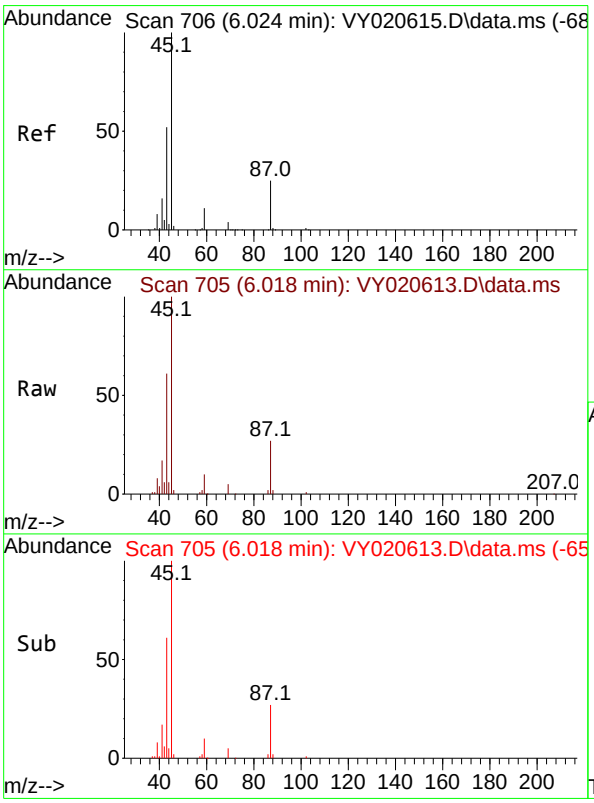

#21
trans-1,2-Dichloroethene
Concen: 10.969 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 96 Resp: 26315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.1 | 113.7 | 170.5 |
| 98 | 71.9 | 51.7 | 77.5 |

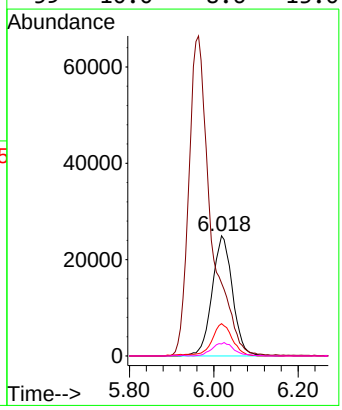


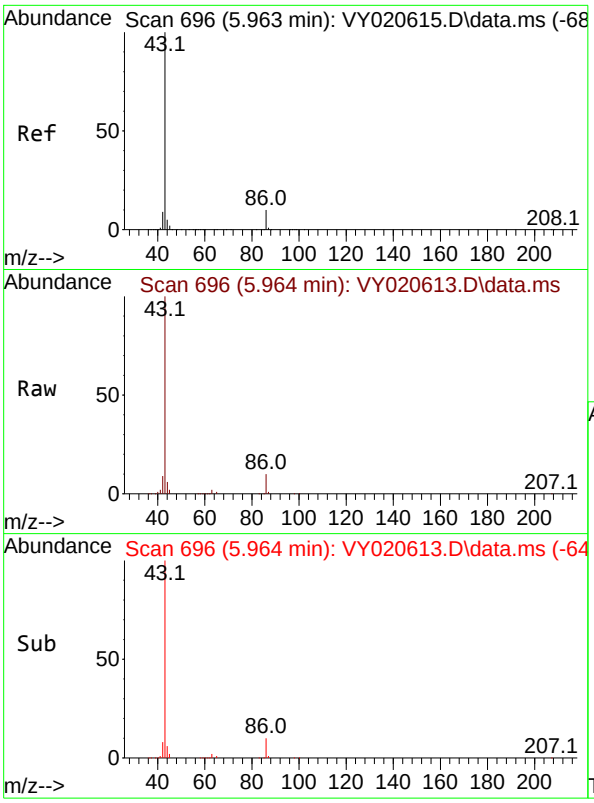




#22
Diisopropyl ether
Concen: 10.997 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 45 Resp: 83653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.8 | 42.6 | 64.0 |
| 87 | 26.9 | 20.6 | 31.0 |
| 59 | 10.0 | 8.6 | 13.0 |



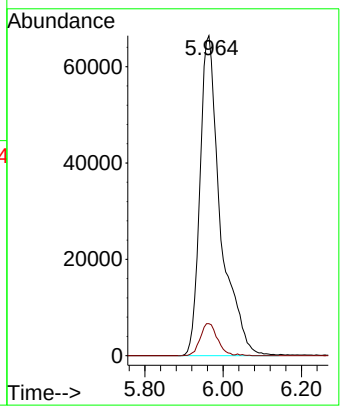


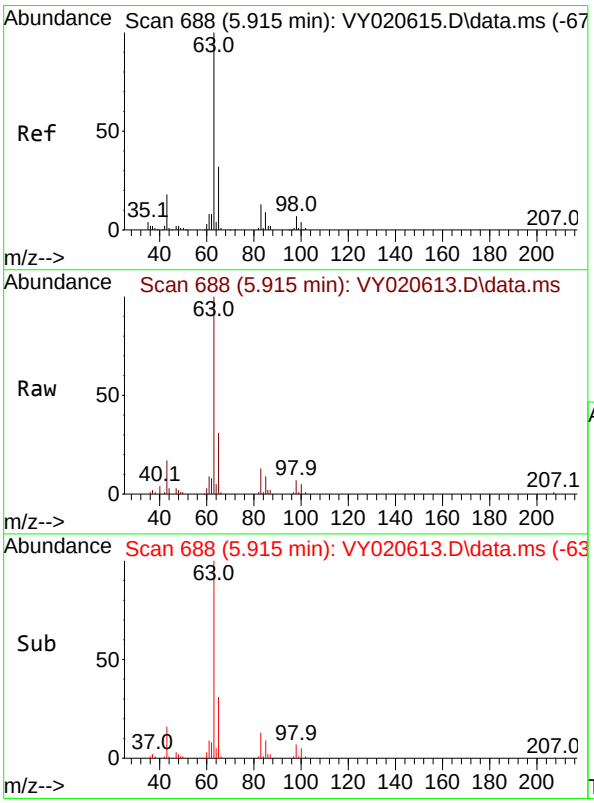

#23
Vinyl Acetate
Concen: 56.147 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 241892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.0 | 8.1 | 12.1 |

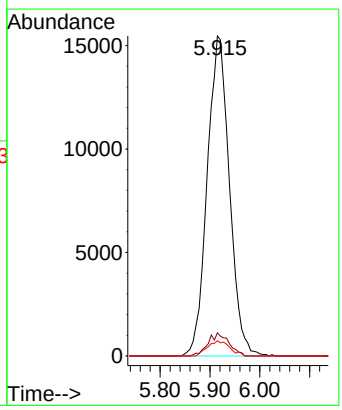


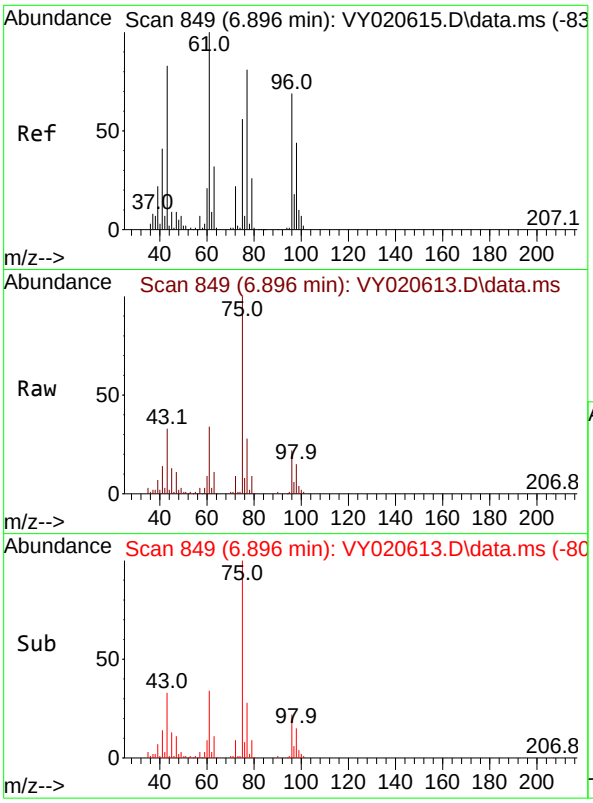




#24
1,1-Dichloroethane
Concen: 10.728 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 63 Resp: 47807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.4 | 10.1 |
| 100 | 4.8 | 2.1 | 6.5 |



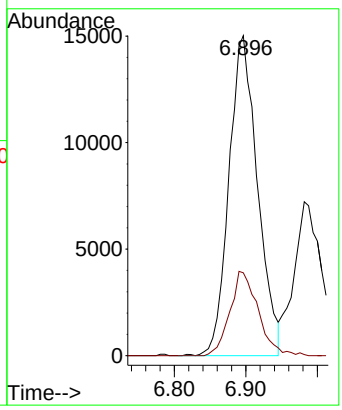


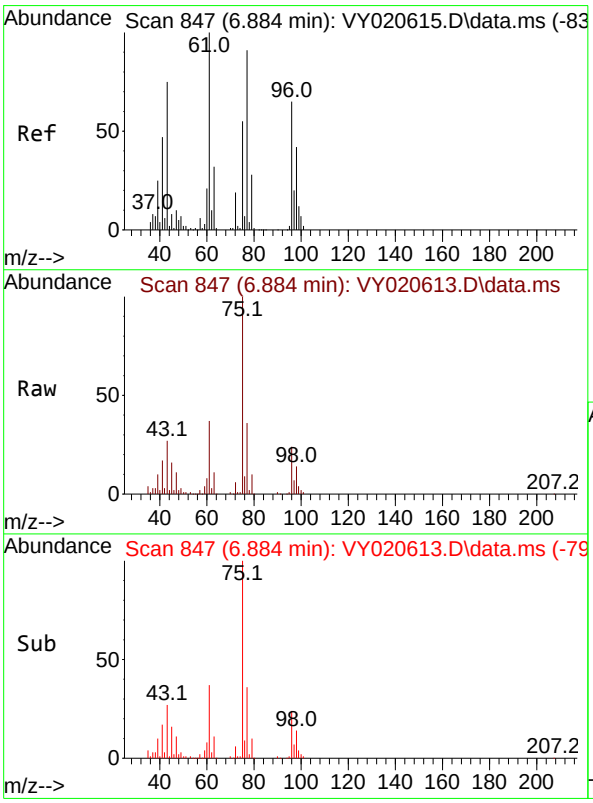

#25
2-Butanone
Concen: 60.169 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 41782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.9 | 20.6 | 31.0 |

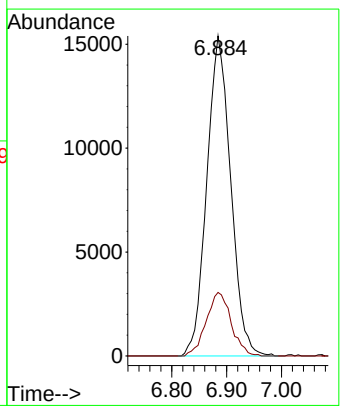


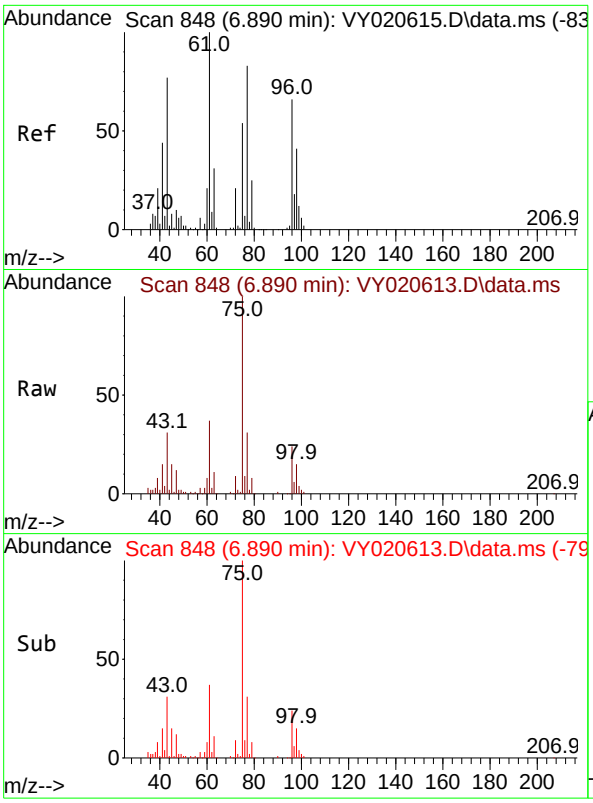




#26
2,2-Dichloropropane
Concen: 11.067 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 77 Resp: 46620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 20.7 | 10.9 | 32.6 |



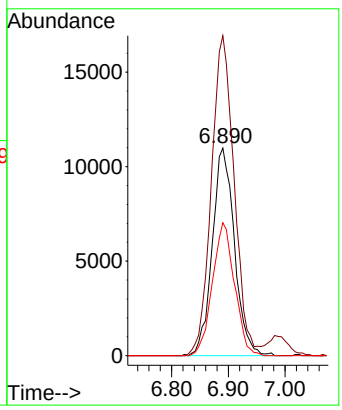


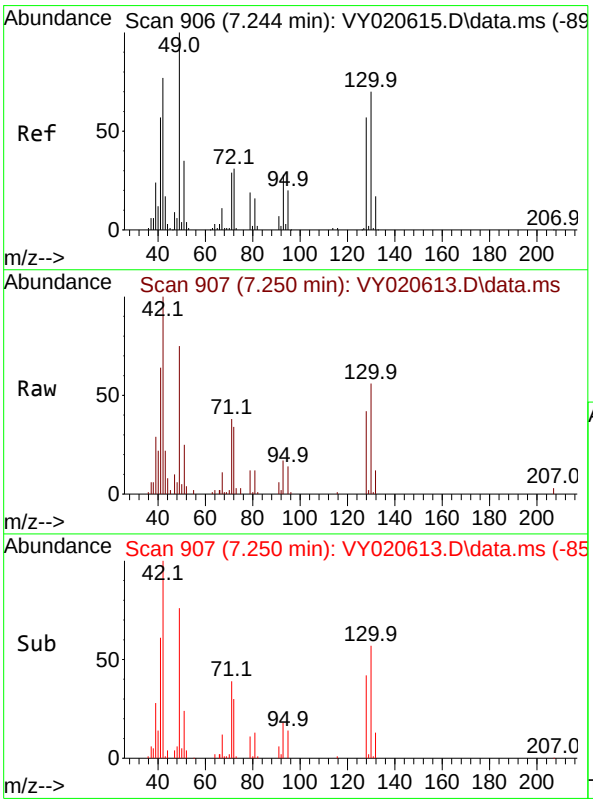

#27
cis-1,2-Dichloroethene
Concen: 10.812 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 96 Resp: 29841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.3 | 0.0 | 306.2 |
| 98 | 63.9 | 0.0 | 127.2 |

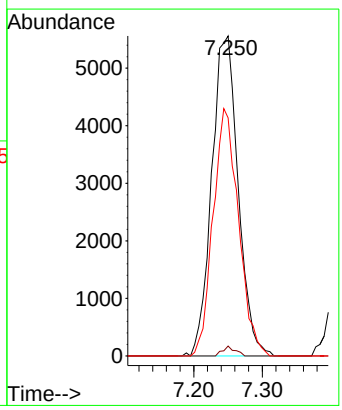


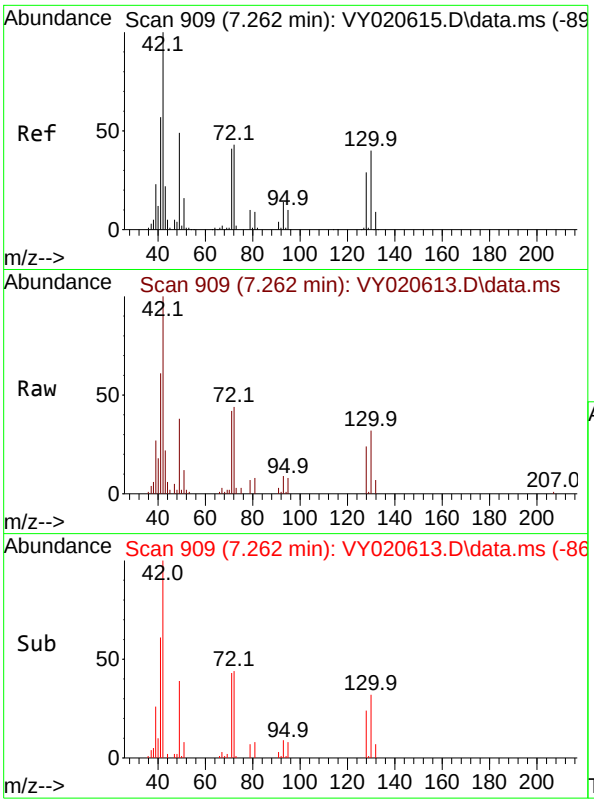




#28
Bromochloromethane
Concen: 9.894 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 49 Resp: 14872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.5 | 0.0 | 3.8 |
| 130 | 74.6 | 58.3 | 87.5 |



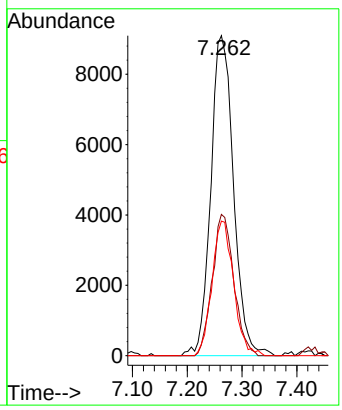


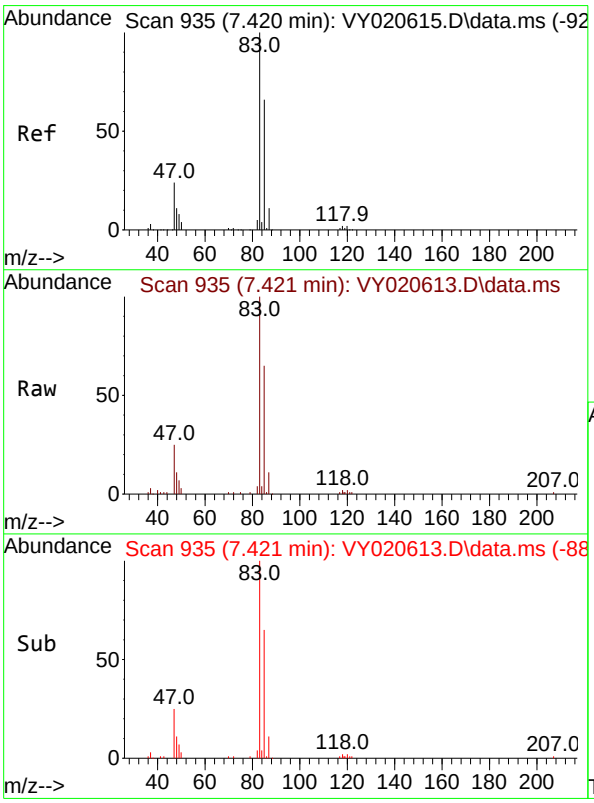

#29
Tetrahydrofuran
Concen: 59.842 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 42 Resp: 26233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.8 | 34.0 | 51.0 |
| 71 | 39.9 | 31.6 | 47.4 |

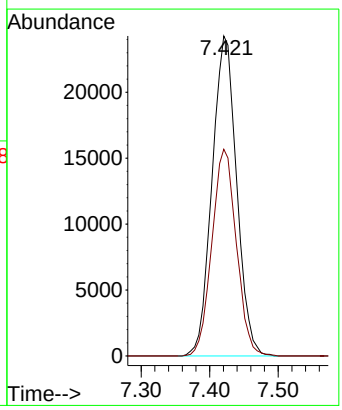


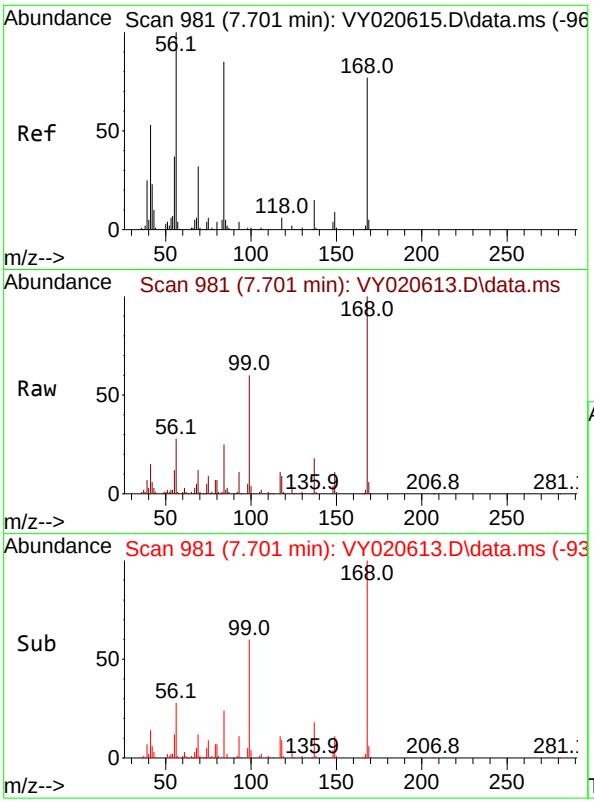




#30
Chloroform
Concen: 9.156 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 83 Resp: 60327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.6 | 52.7 | 79.1 |



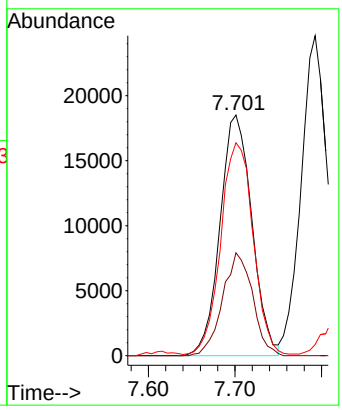


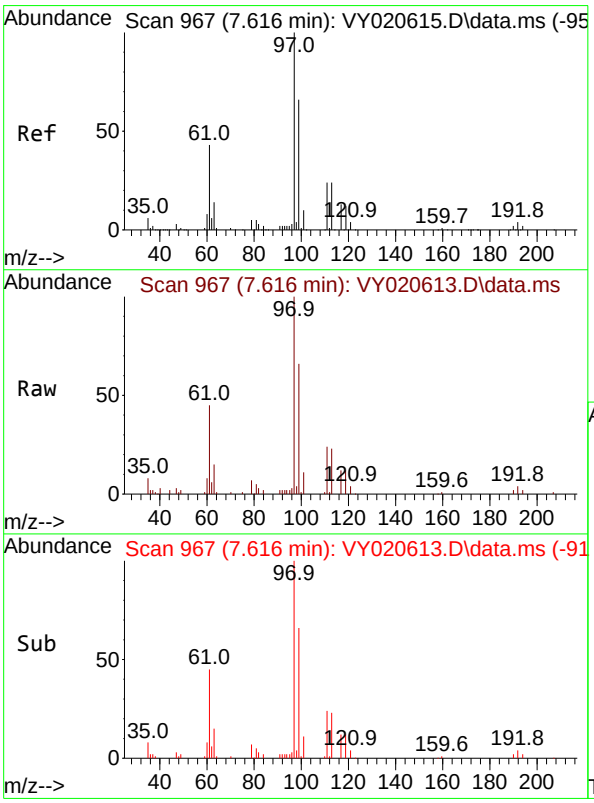

#31
Cyclohexane
Concen: 11.117 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 56 Resp: 47368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 42.7 | 25.4 | 38.0# |
| 84 | 87.5 | 68.3 | 102.5 |

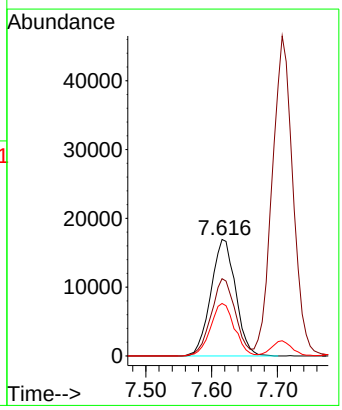


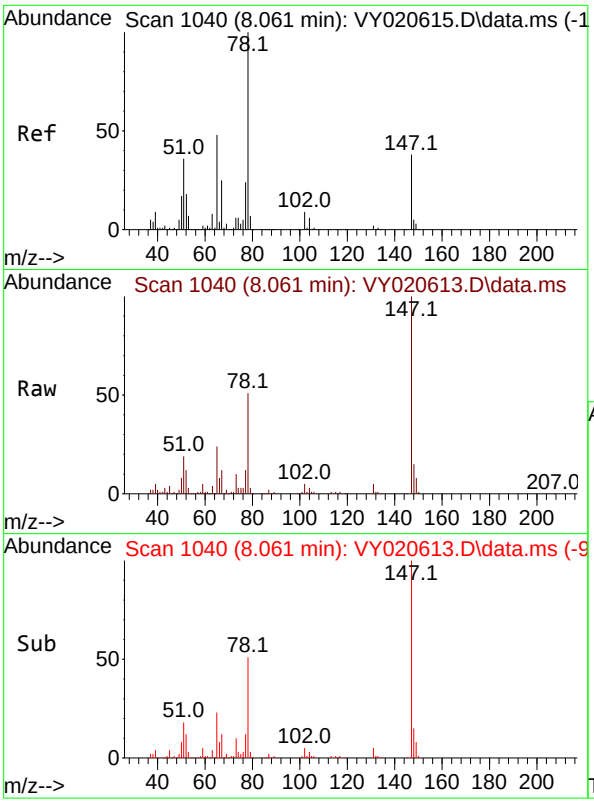




#32
1,1,1-Trichloroethane
Concen: 10.820 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 97 Resp: 44299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 43.9 | 34.7 | 52.1 |



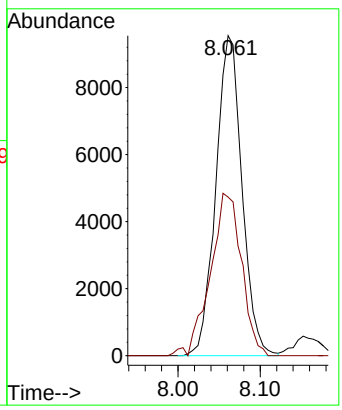


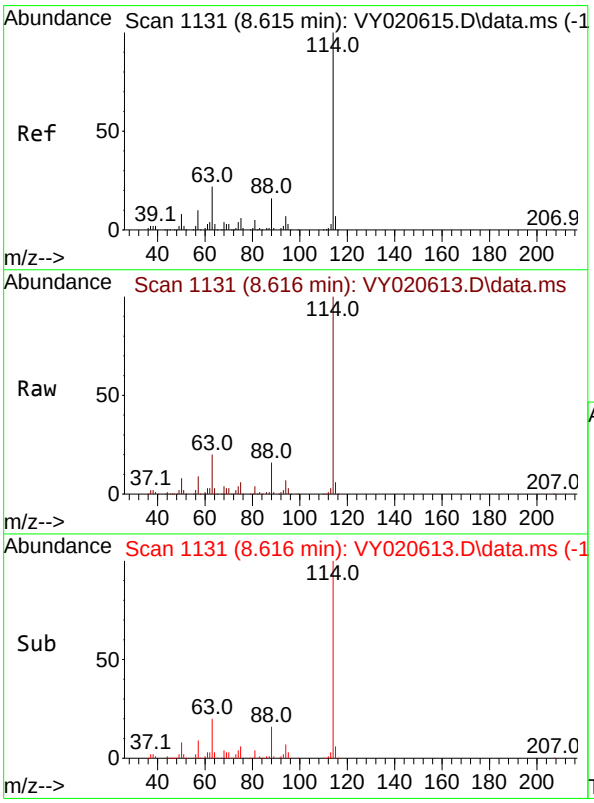

#33
1,2-Dichloroethane-d4
Concen: 11.310 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 65 Resp: 21133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 60.4 | 0.0 | 108.0 |

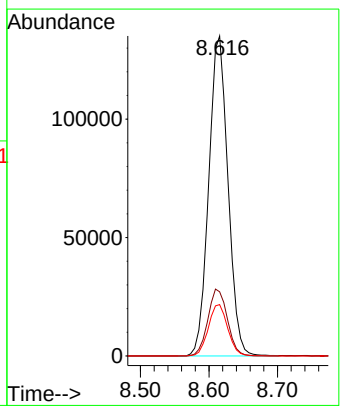


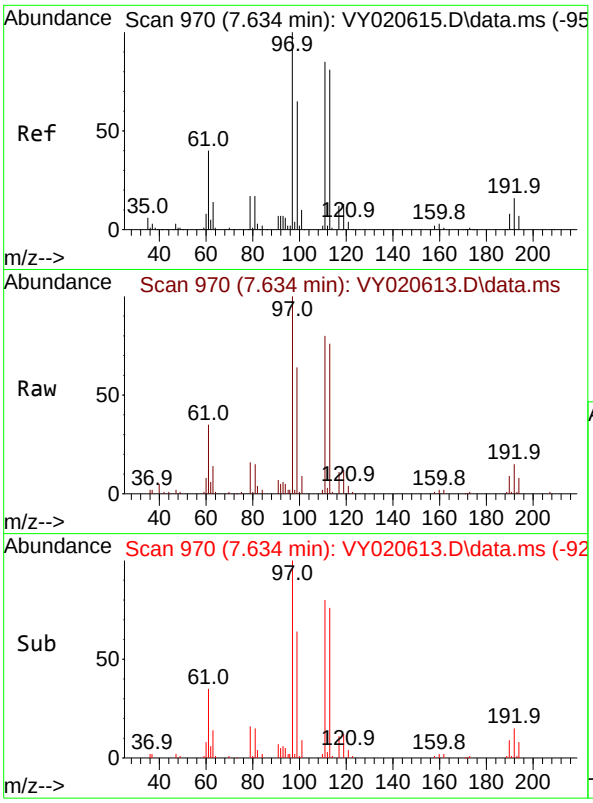




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:114 Resp: 263150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.1 | 0.0 | 44.0 |
| 88 | 16.0 | 0.0 | 32.8 |



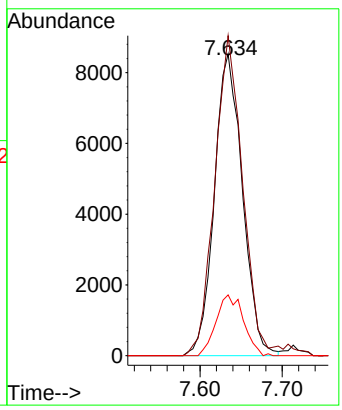


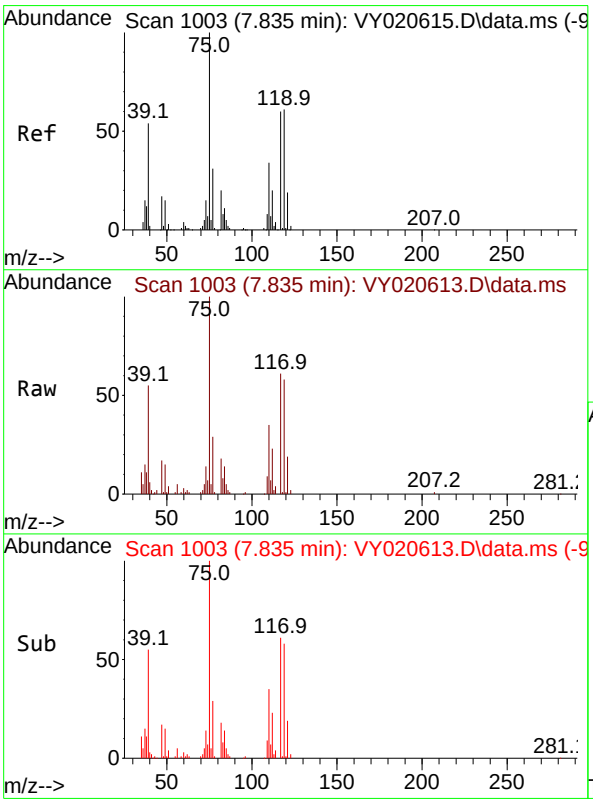

#35
Dibromofluoromethane
Concen: 10.925 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:113 Resp: 20262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.9 | 82.9 | 124.3 |
| 192 | 19.7 | 15.7 | 23.5 |

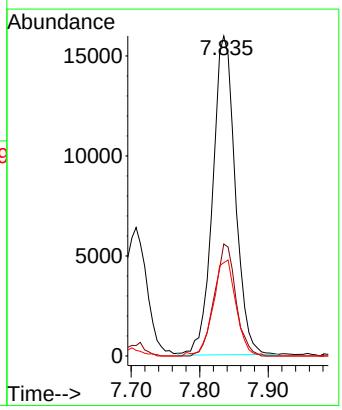


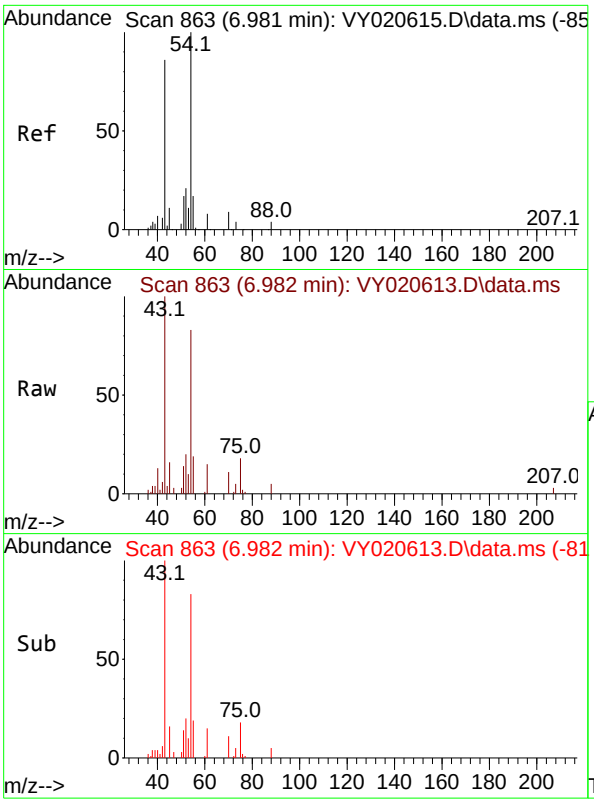




#36
1,1-Dichloropropene
Concen: 10.748 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 75 Resp: 36347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.4 | 16.8 | 50.4 |
| 77 | 30.7 | 25.0 | 37.6 |



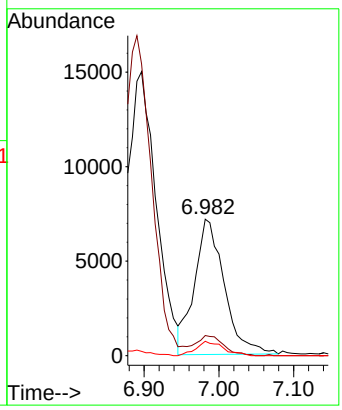


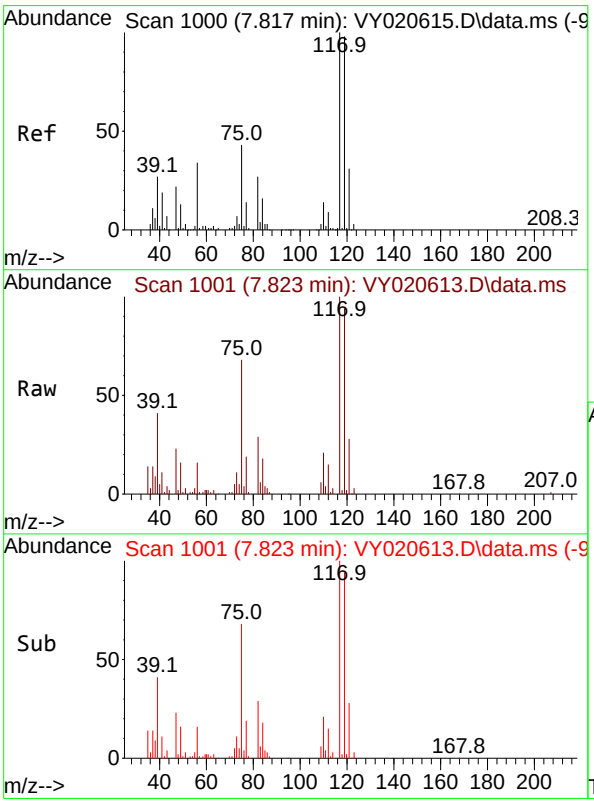

#37
Ethyl Acetate
Concen: 12.541 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 19950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.6 | 11.0 | 16.4 |
| 70 | 9.6 | 7.9 | 11.9 |

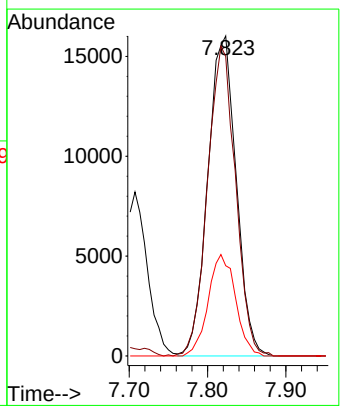


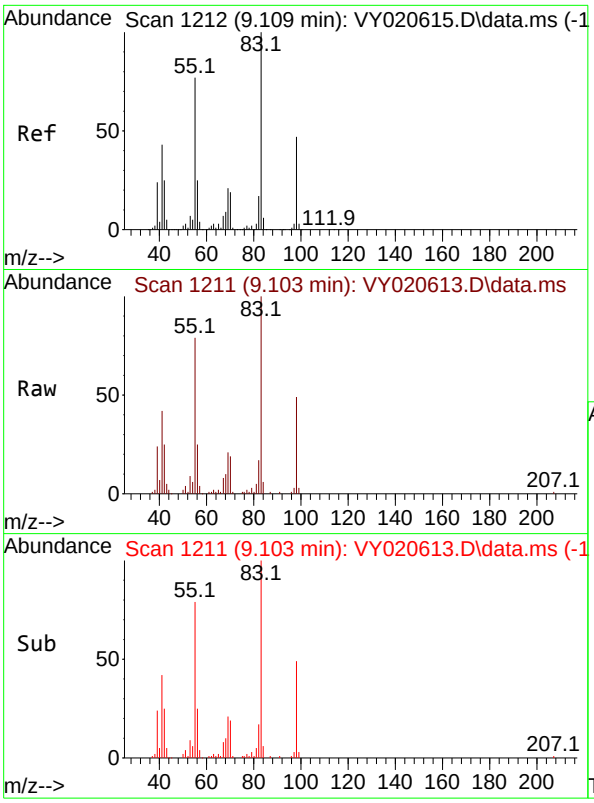




#38
Carbon Tetrachloride
Concen: 10.796 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:117 Resp: 40394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.6 | 78.3 | 117.5 |
| 121 | 28.2 | 25.1 | 37.7 |



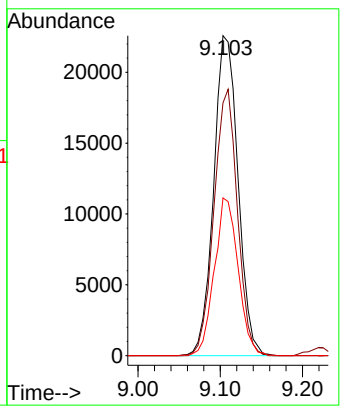


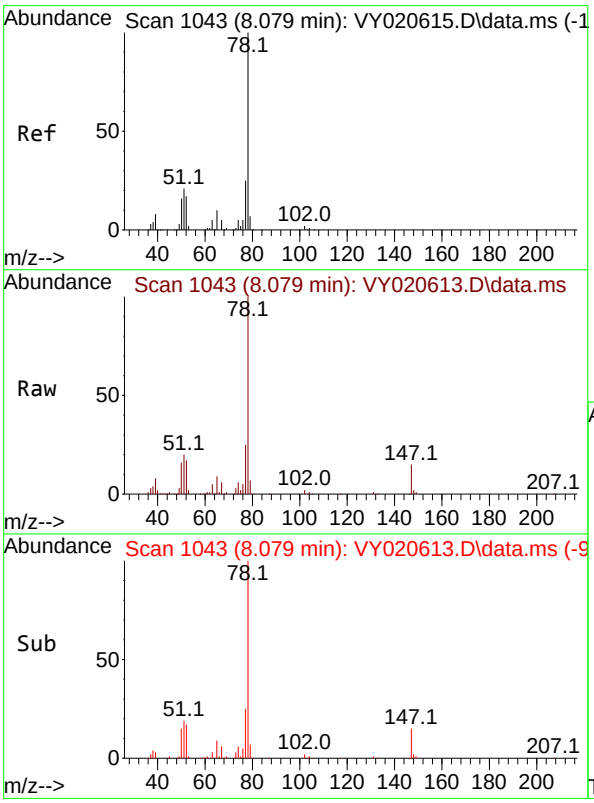

#39
Methylcyclohexane
Concen: 10.541 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 46462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 79.0 | 61.4 | 92.0 |
| 98 | 49.3 | 37.3 | 55.9 |

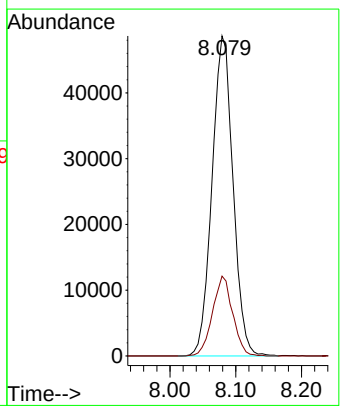


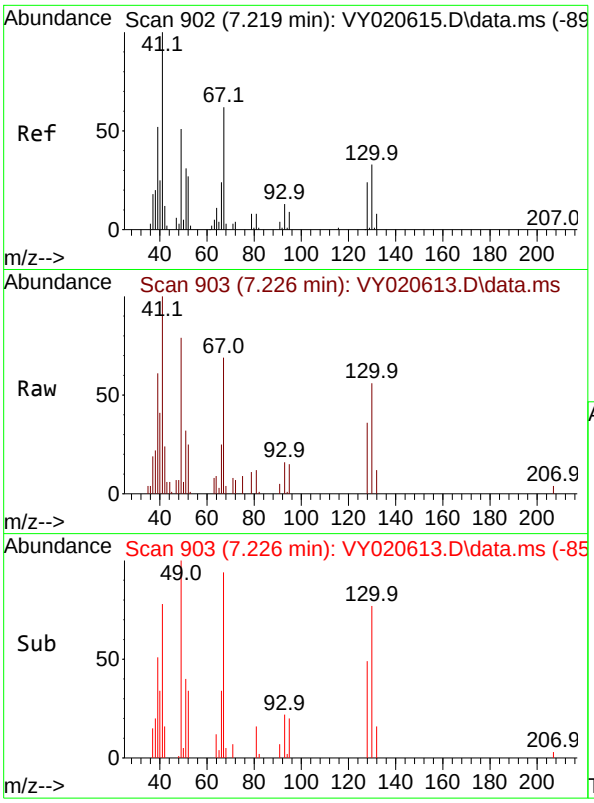




#40
Benzene
Concen: 10.910 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 78 Resp: 108150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.0 | 20.1 | 30.1 |



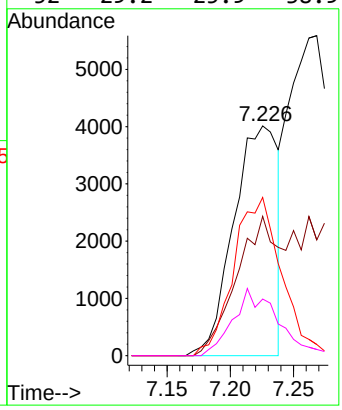


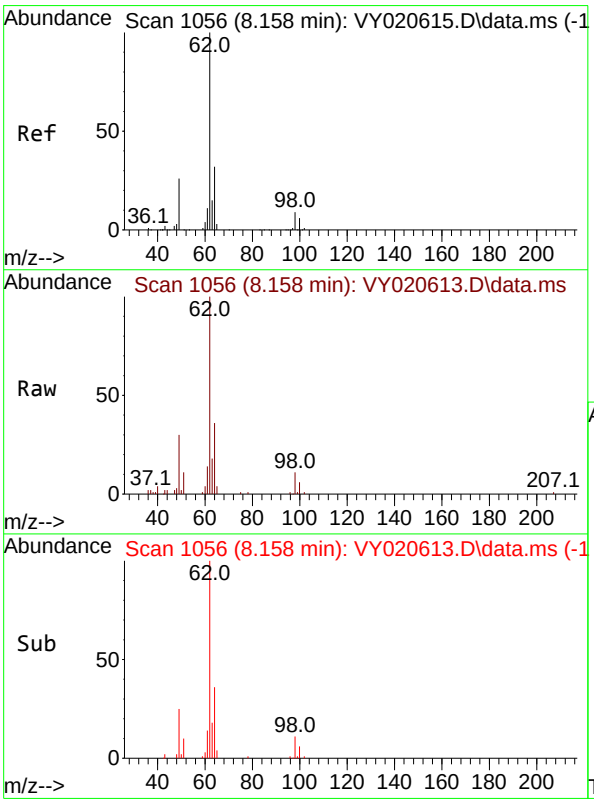

#41
Methacrylonitrile
Concen: 11.653 ug/l
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 41 Resp: 9800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 61.3 | 53.6 | 80.4 |
| 67 | 74.4 | 62.0 | 93.0 |
| 52 | 29.2 | 25.9 | 38.9 |

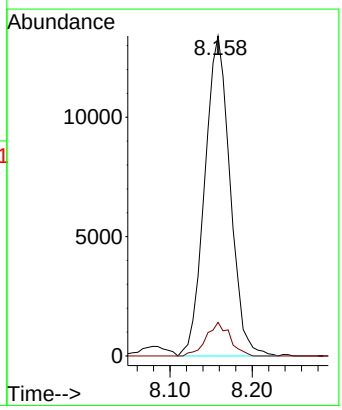


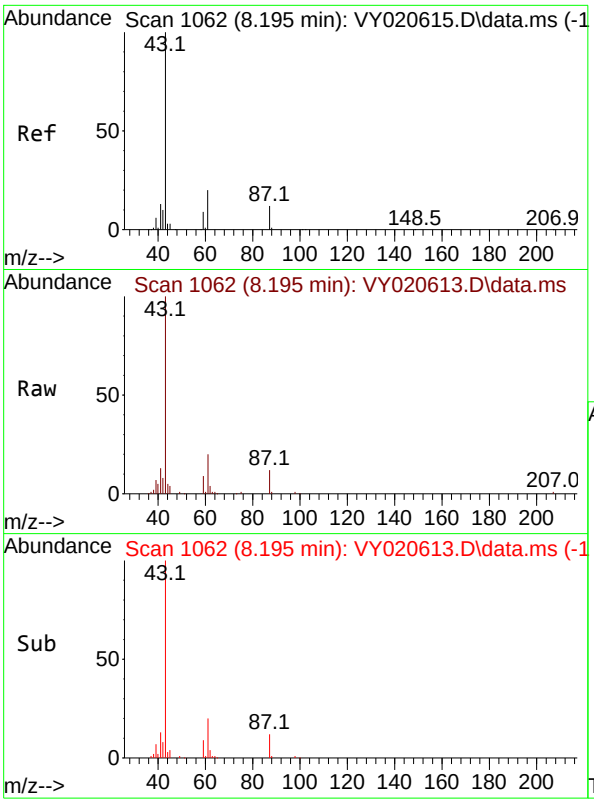




#42
1,2-Dichloroethane
Concen: 10.931 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 62 Resp: 28739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 18.0 |



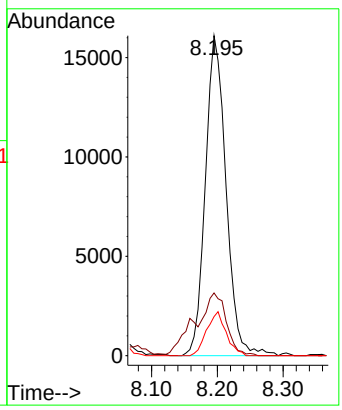


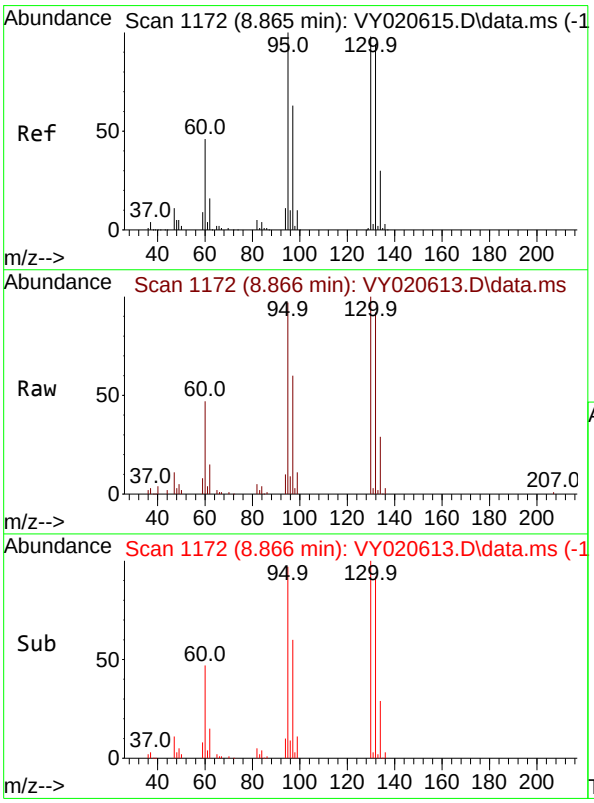

#43
Isopropyl Acetate
Concen: 11.721 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 35299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.6 | 23.8 | 35.6# |
| 87 | 13.0 | 10.2 | 15.4 |

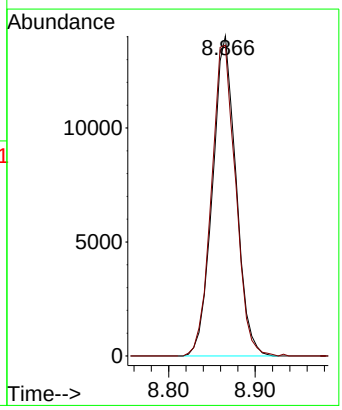


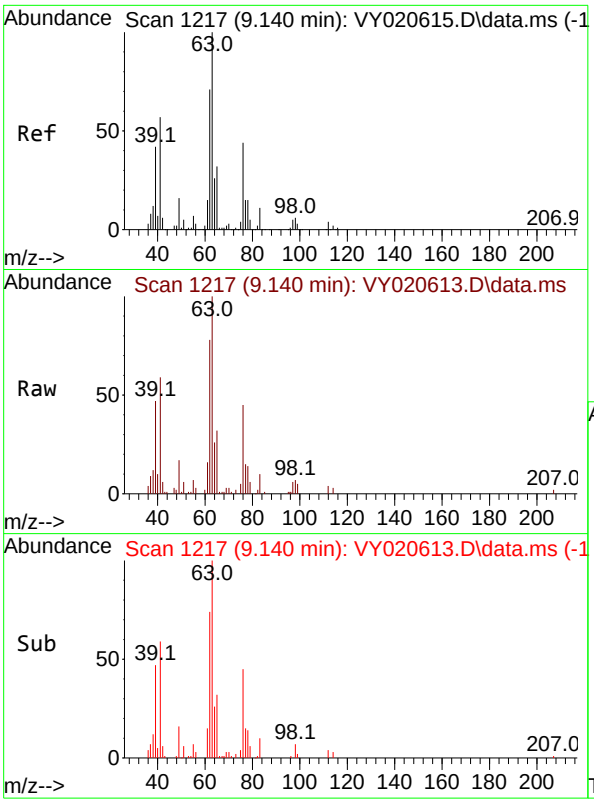




#44
Trichloroethene
Concen: 10.834 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:130 Resp: 26388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.2 | 0.0 | 203.2 |



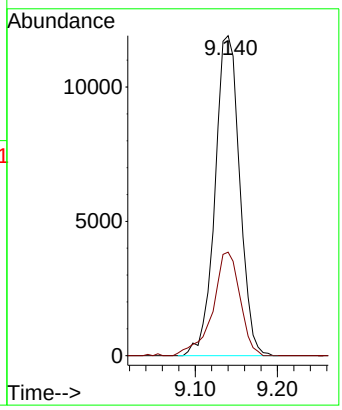


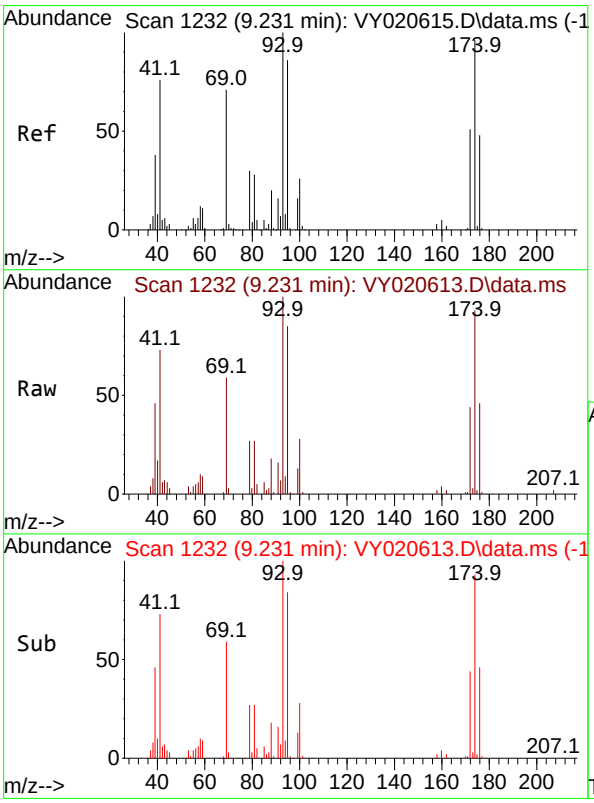

#45
1,2-Dichloropropane
Concen: 10.743 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 63 Resp: 24889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.3 | 25.9 | 38.9 |

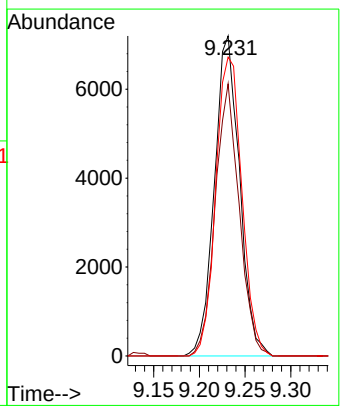


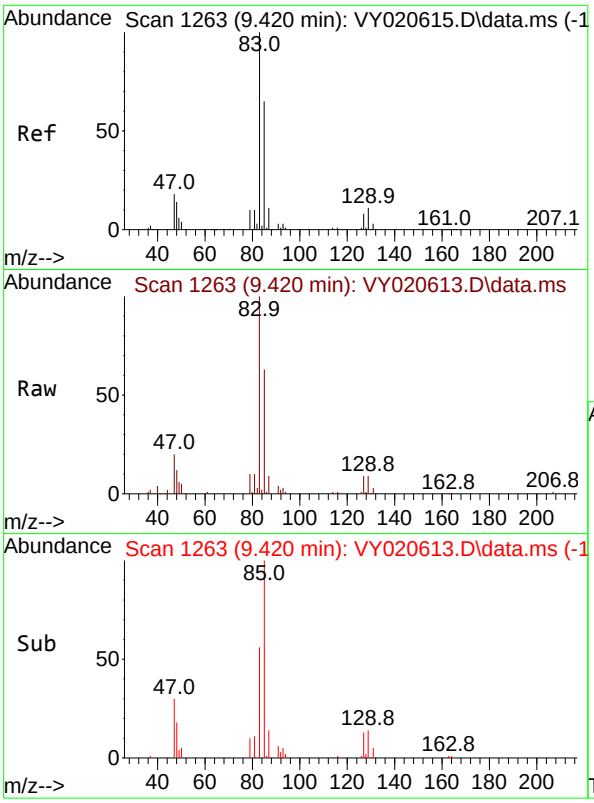




#46
Dibromomethane
Concen: 11.242 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 93 Resp: 13764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.2 | 66.7 | 100.1 |
| 174 | 97.0 | 77.8 | 116.6 |



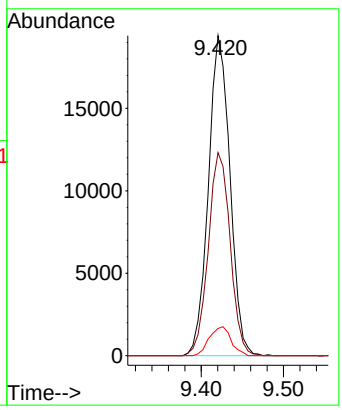


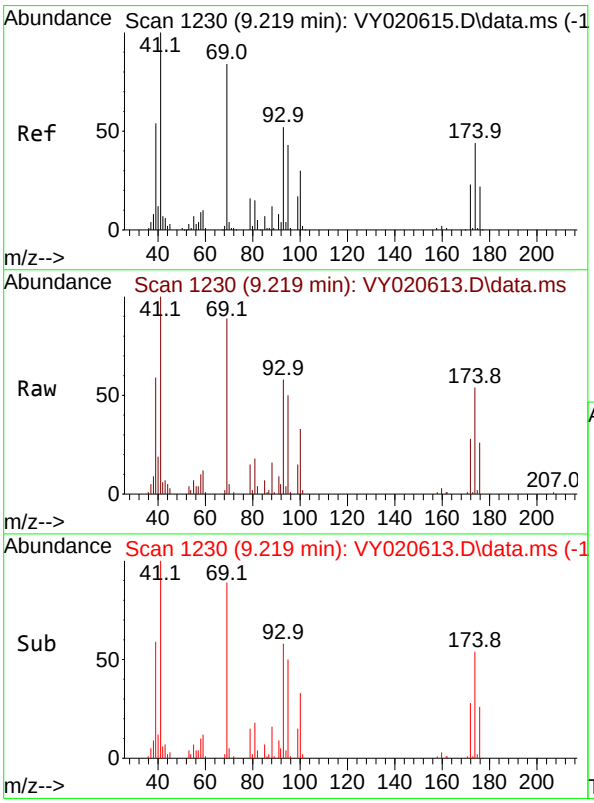

#47
Bromodichloromethane
Concen: 10.689 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 35352

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 52.1 | 78.1 |
| 127 | 8.5 | 6.7 | 10.1 |

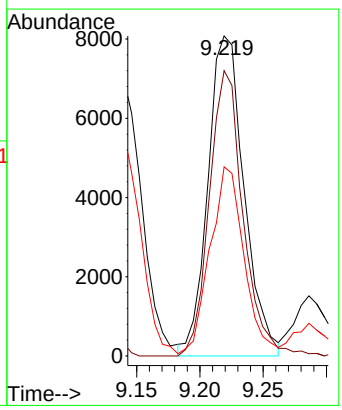


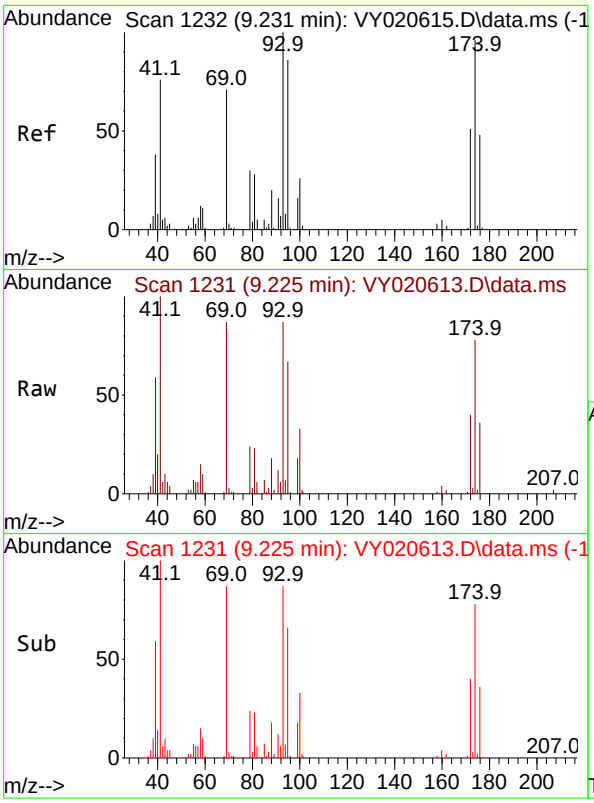




#48
Methyl methacrylate
Concen: 11.218 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 41 Resp: 16060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.4 | 67.2 | 100.8 |
| 39 | 54.3 | 42.2 | 63.4 |



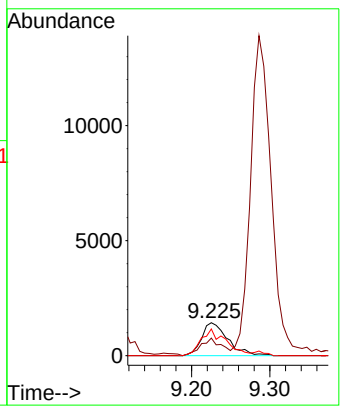


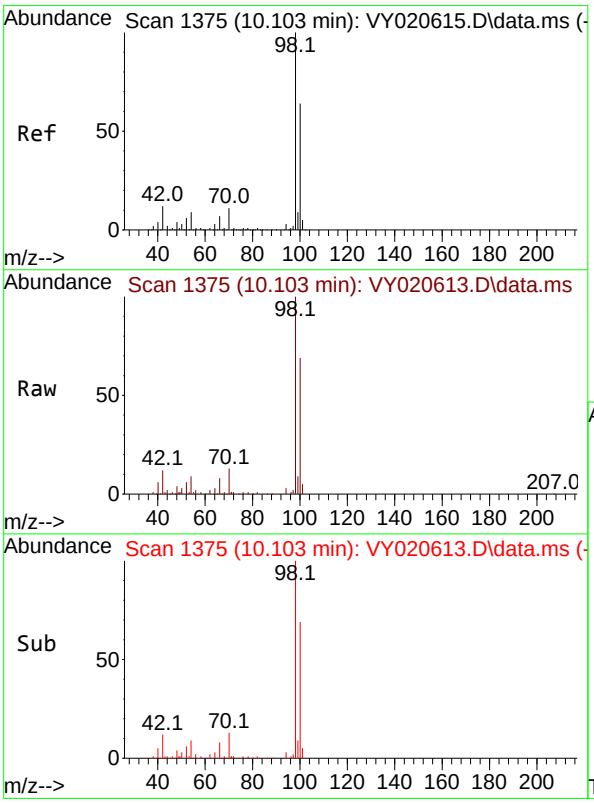

#49
1,4-Dioxane
Concen: 237.872 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 88 Resp: 3340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 42.2 | 27.6 | 41.4# |
| 58 | 76.6 | 61.7 | 92.5 |

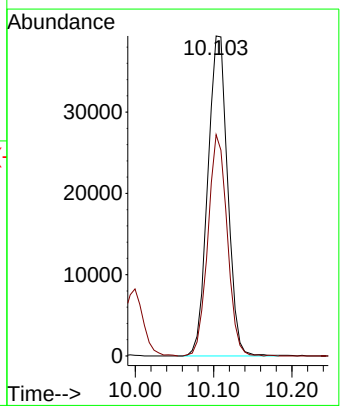


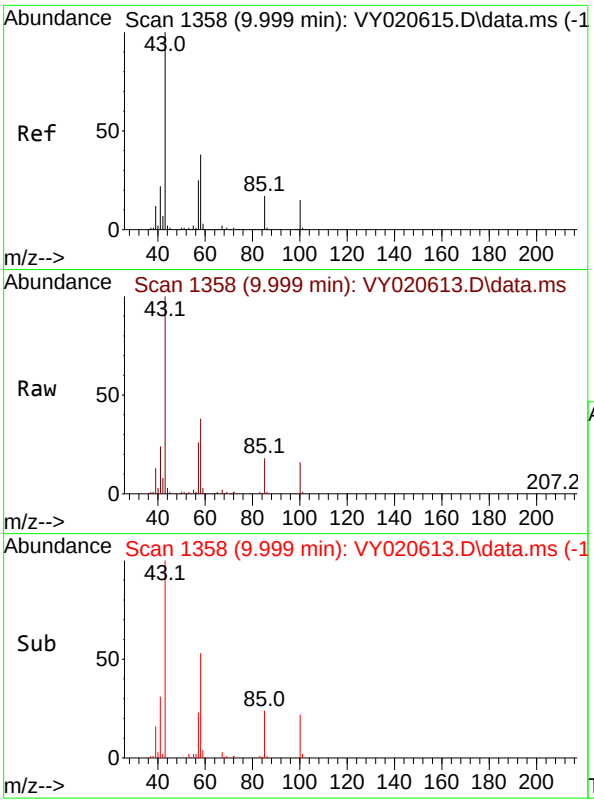




#50
Toluene-d8
Concen: 10.653 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 98 Resp: 69155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 67.3 | 52.1 | 78.1 |



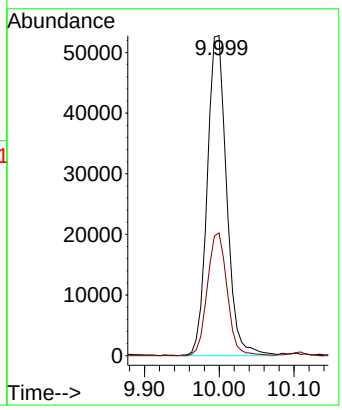


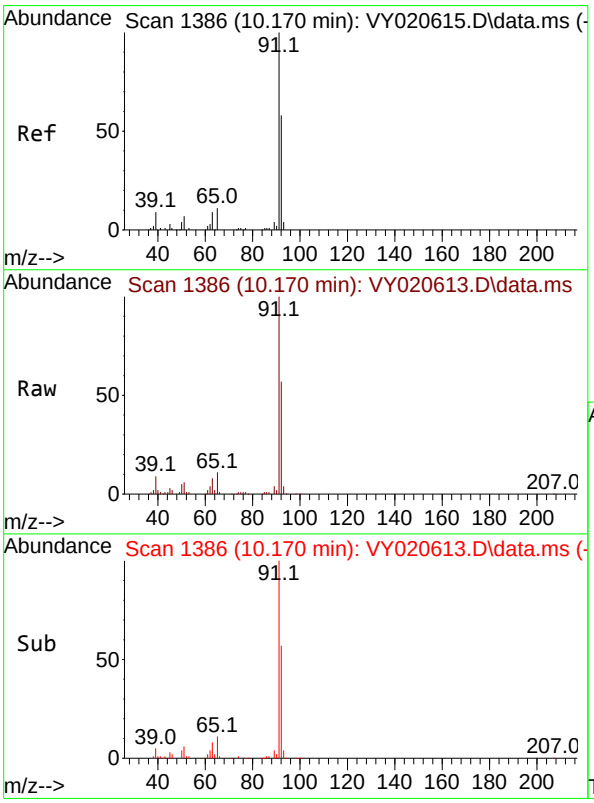

#51
4-Methyl-2-Pentanone
Concen: 60.180 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 95663

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.0 | 31.4 | 47.2 |

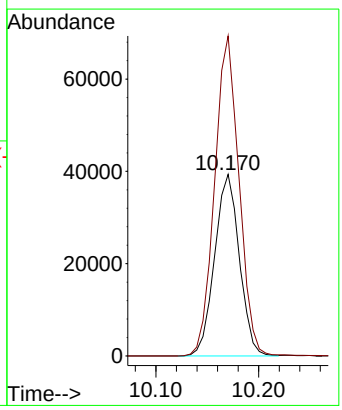


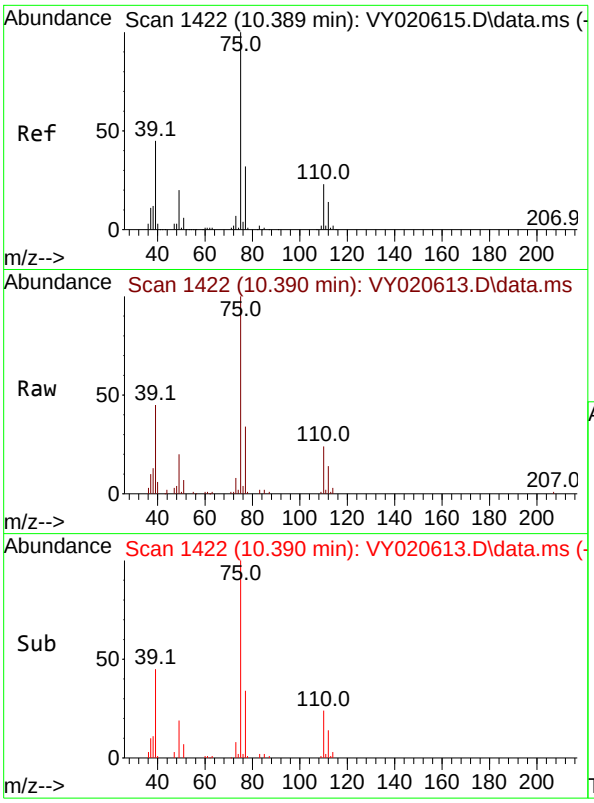




#52
Toluene
Concen: 10.657 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 92 Resp: 65651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.4 | 137.4 | 206.0 |



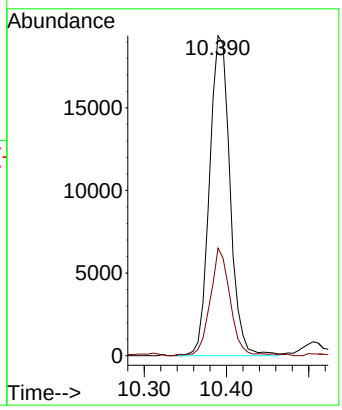


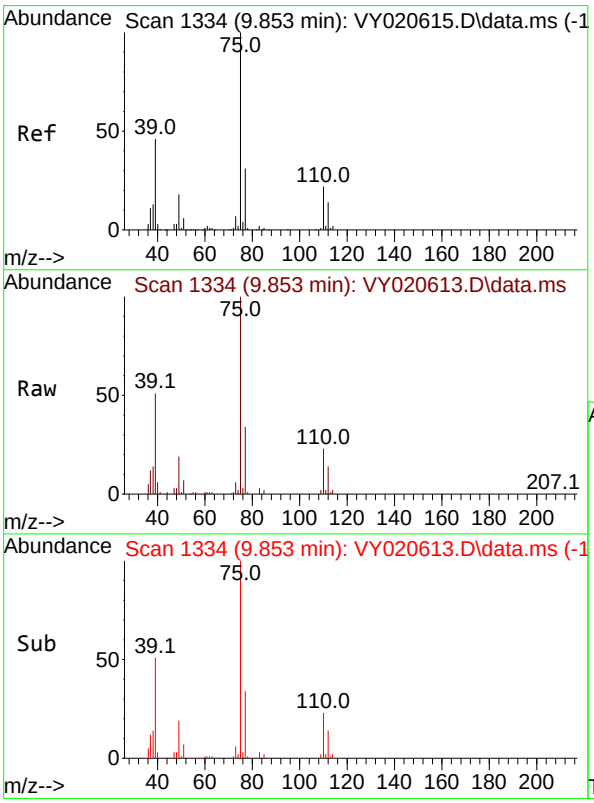

#53
t-1,3-Dichloropropene
Concen: 10.892 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 75 Resp: 33566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.2 | 25.4 | 38.2 |

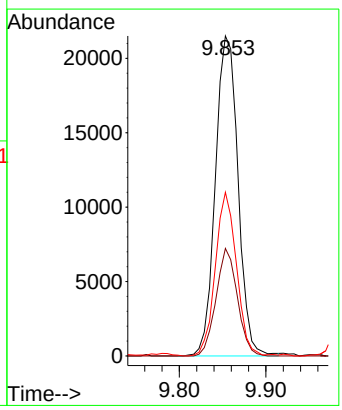


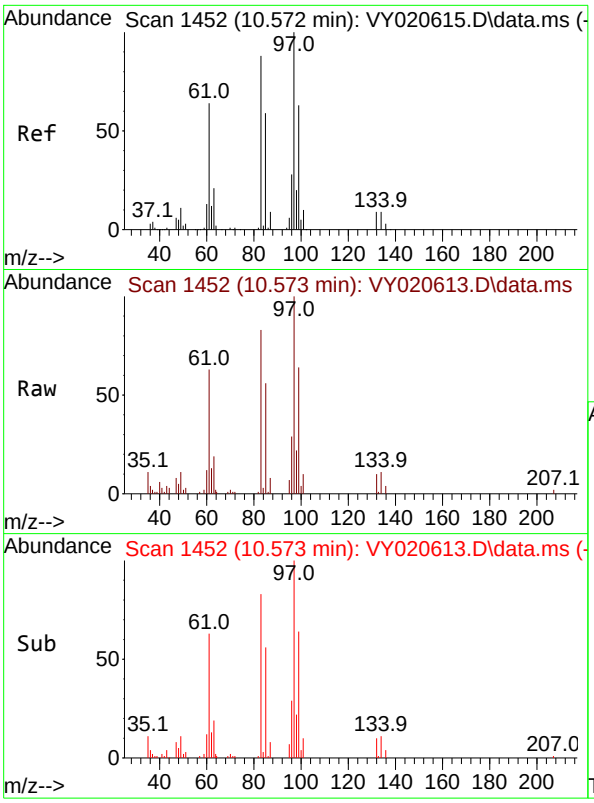




#54
cis-1,3-Dichloropropene
Concen: 10.698 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 75 Resp: 39068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.6 | 24.6 | 36.8 |
| 39 | 50.9 | 36.4 | 54.6 |



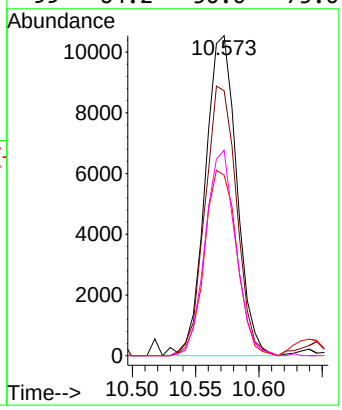


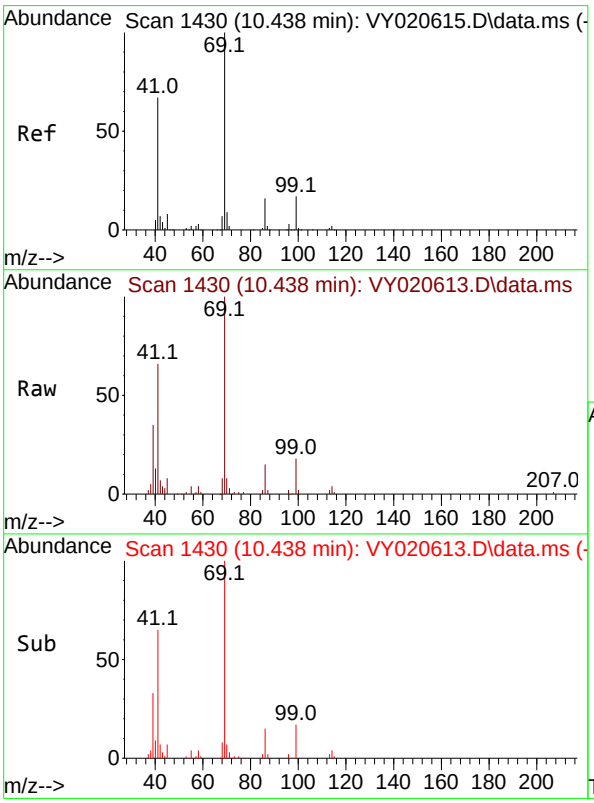

#55
1,1,2-Trichloroethane
Concen: 11.181 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 97 Resp: 18100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.8 | 70.4 | 105.6 |
| 85 | 56.4 | 47.2 | 70.8 |
| 99 | 64.2 | 50.0 | 75.0 |

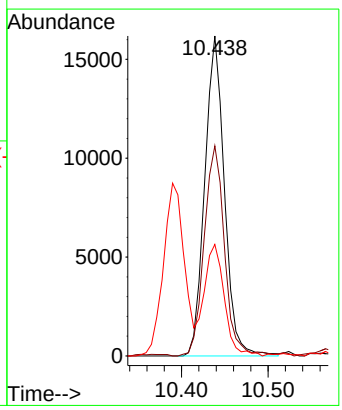


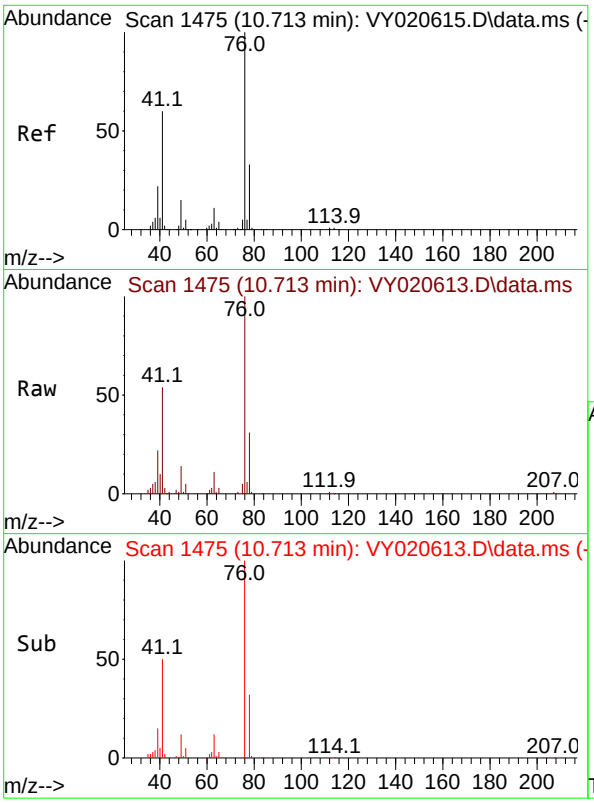




#56
Ethyl methacrylate
Concen: 10.877 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 69 Resp: 25543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 68.1 | 54.0 | 81.0 |
| 39 | 36.0 | 27.9 | 41.9 |



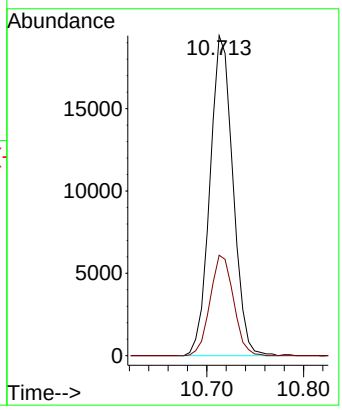


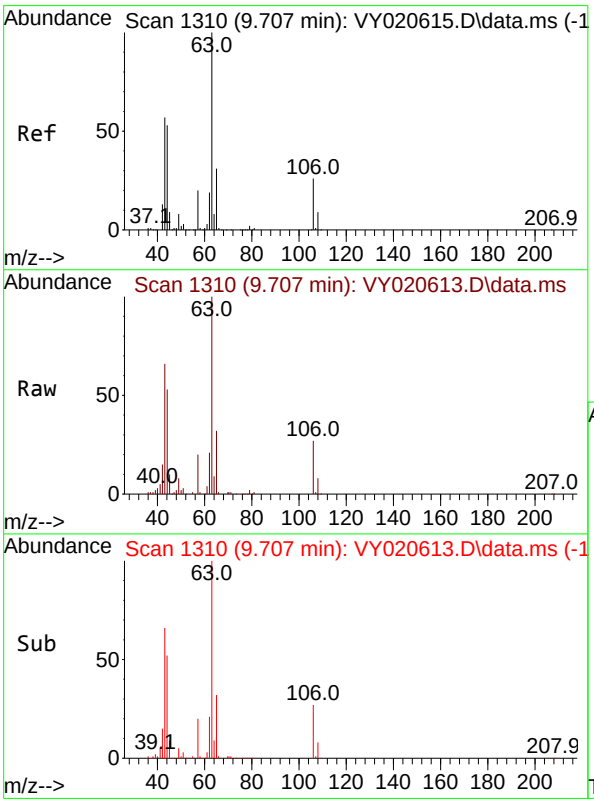

#57
1,3-Dichloropropane
Concen: 11.099 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 76 Resp: 32029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 25.8 | 38.8 |

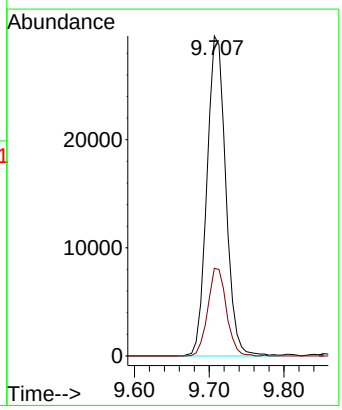


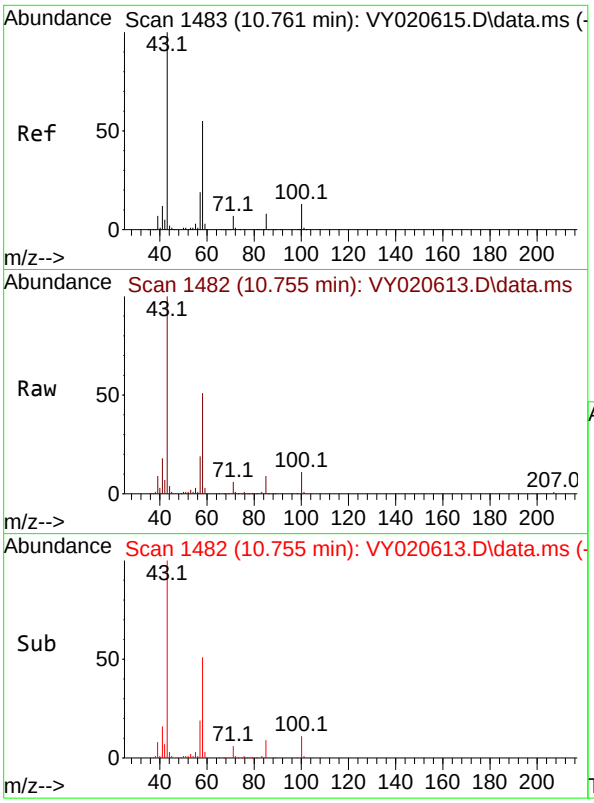




#58
2-Chloroethyl Vinyl ether
Concen: 52.537 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 63 Resp: 51913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.1 | 21.5 | 32.3 |



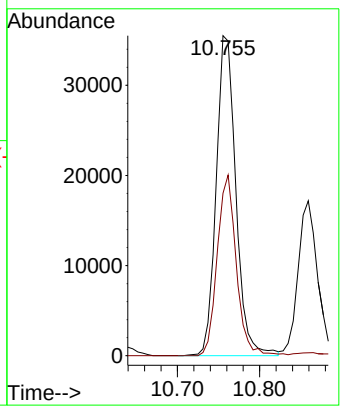


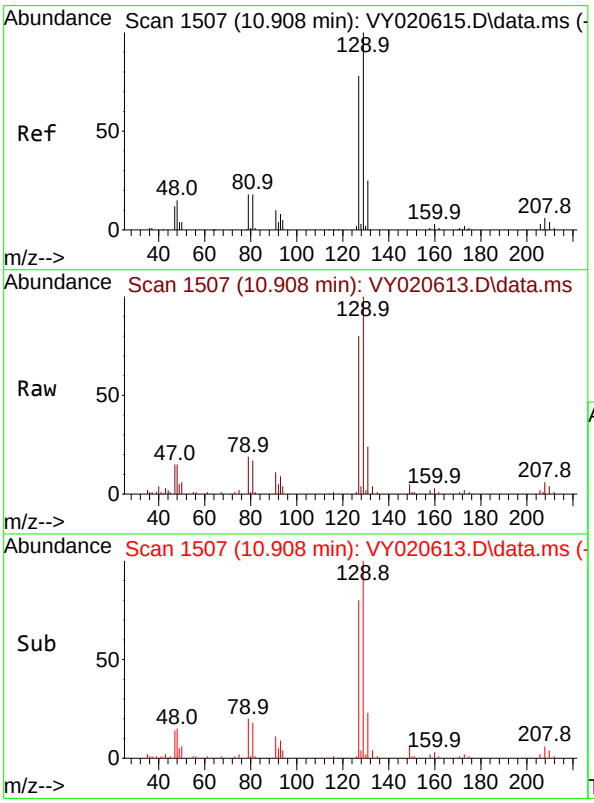

#59
2-Hexanone
Concen: 57.933 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 59126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.7 | 27.2 | 81.6 |

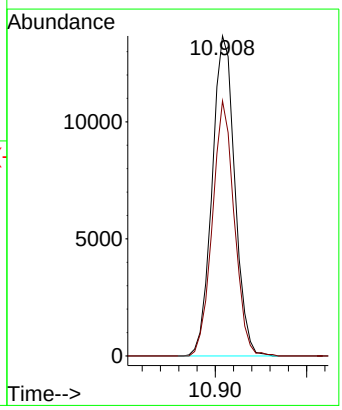


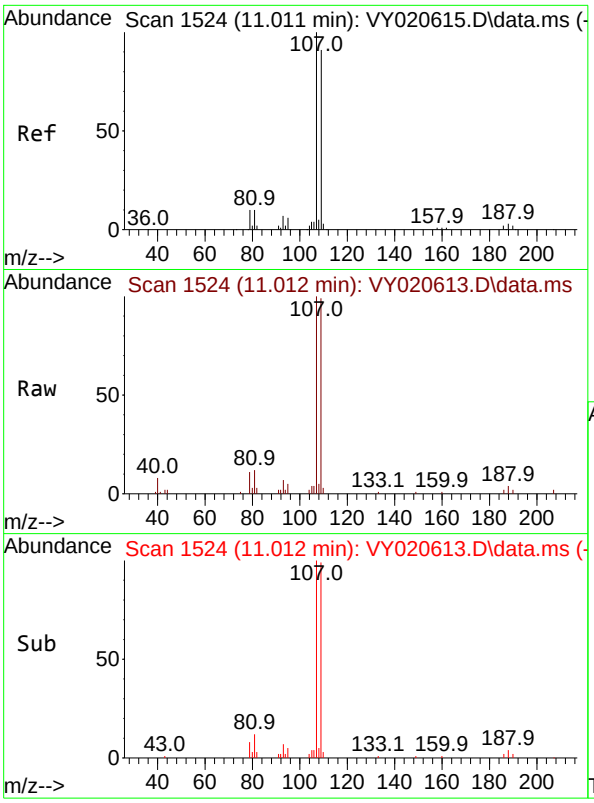




#60
Dibromochloromethane
Concen: 10.878 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:129 Resp: 23549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.9 | 38.1 | 114.3 |



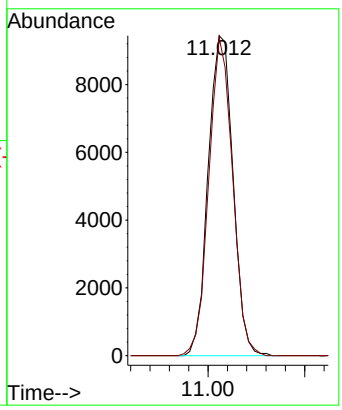


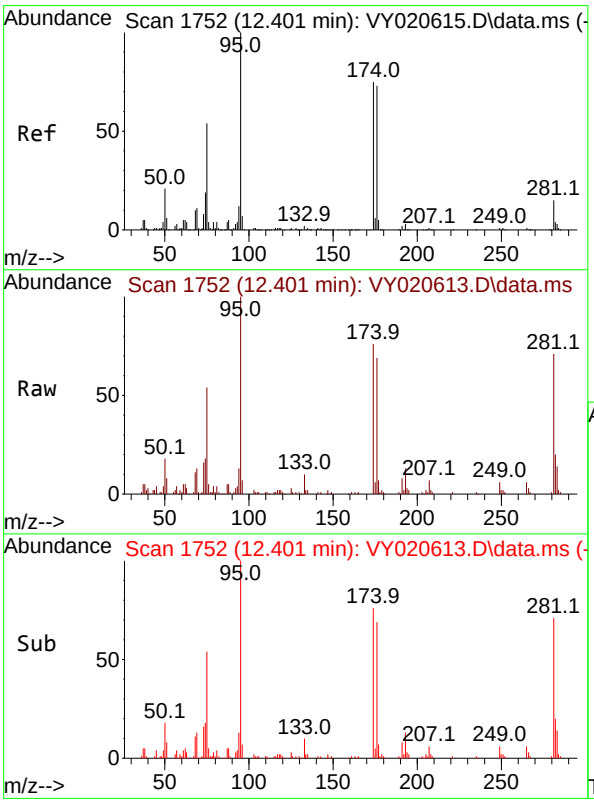

#61
1,2-Dibromoethane
Concen: 11.162 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:107 Resp: 16807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.2 | 75.4 | 113.2 |

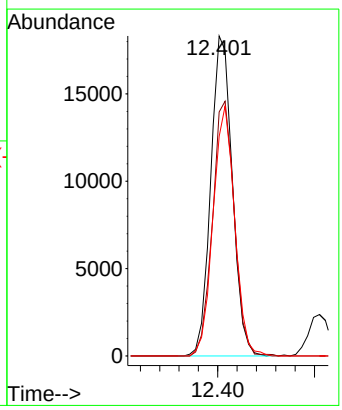


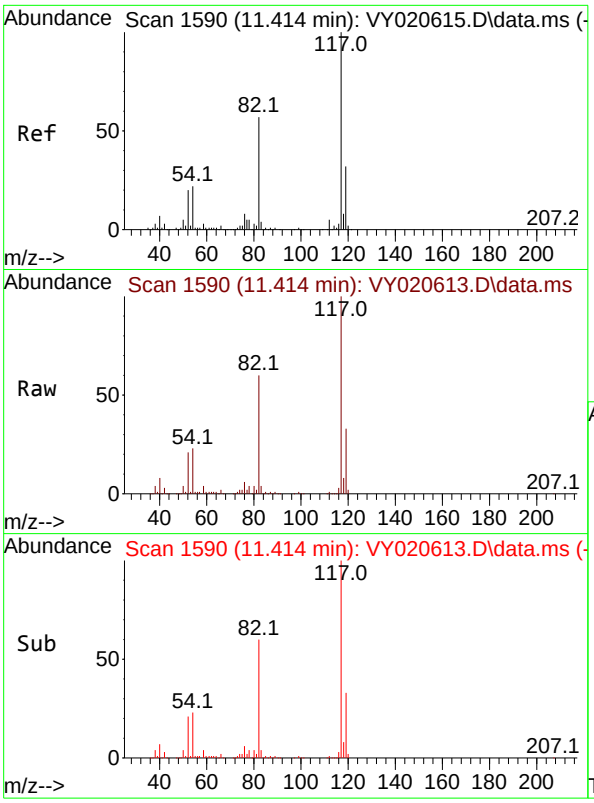




#62
4-Bromofluorobenzene
Concen: 11.154 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 95 Resp: 28323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.6 | 0.0 | 161.8 |
| 176 | 78.3 | 0.0 | 156.6 |



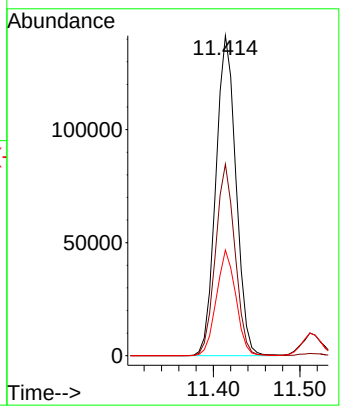


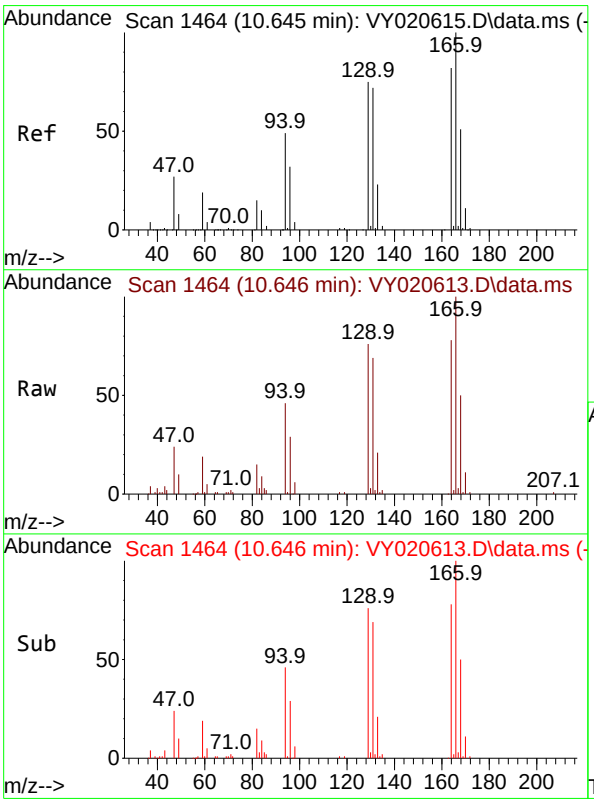

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:117 Resp: 228550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.9 | 45.8 | 68.6 |
| 119 | 33.0 | 25.3 | 37.9 |

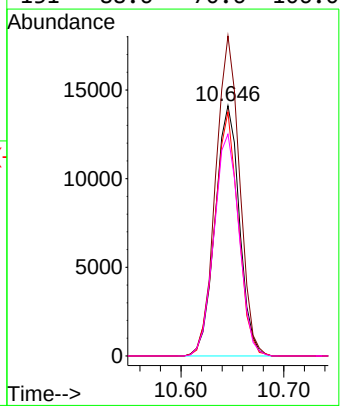


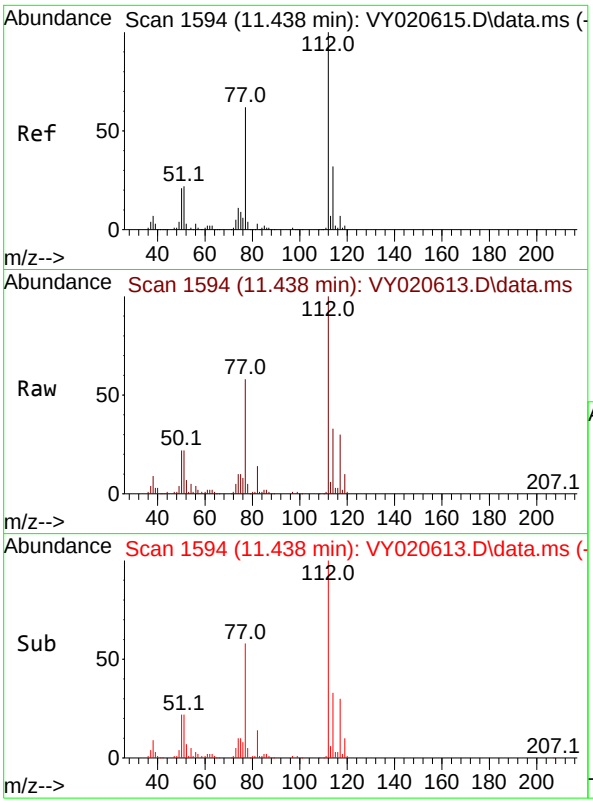




#64
Tetrachloroethene
Concen: 10.744 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:164 Resp: 23098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.9 | 97.9 | 146.9 |
| 129 | 97.5 | 73.4 | 110.0 |
| 131 | 88.6 | 70.6 | 106.0 |



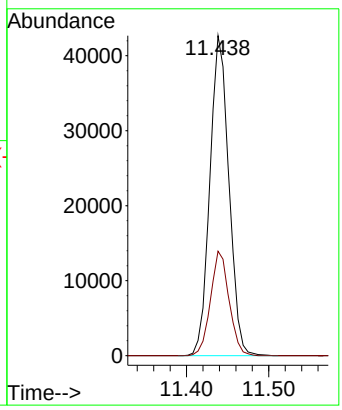


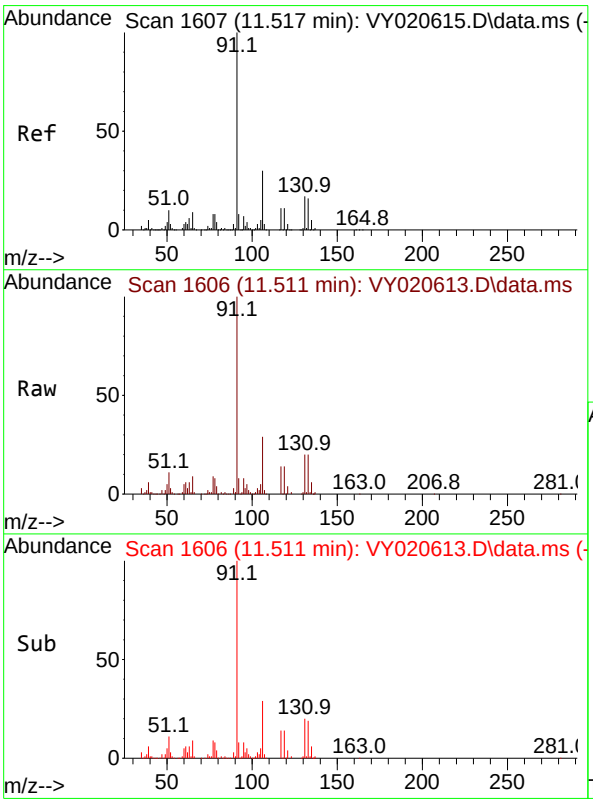

#65
Chlorobenzene
Concen: 10.738 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:112 Resp: 68621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.7 | 26.0 | 39.0 |

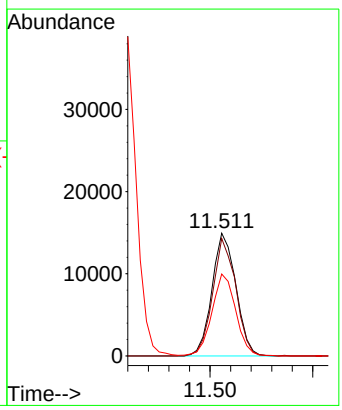


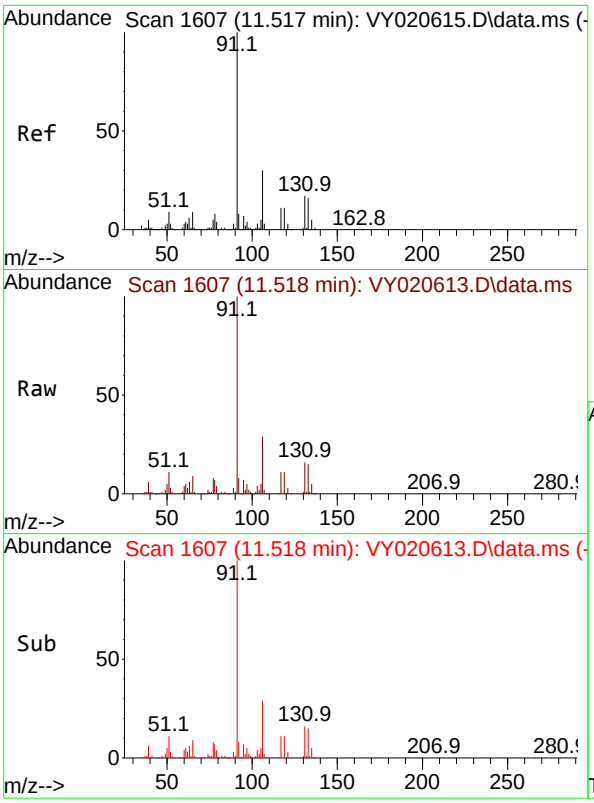




#66
1,1,1,2-Tetrachloroethane
Concen: 11.065 ug/l
RT: 11.511 min Scan# 1606
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:131 Resp: 24180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 92.6 | 46.8 | 140.3 |
| 119 | 66.5 | 31.8 | 95.3 |



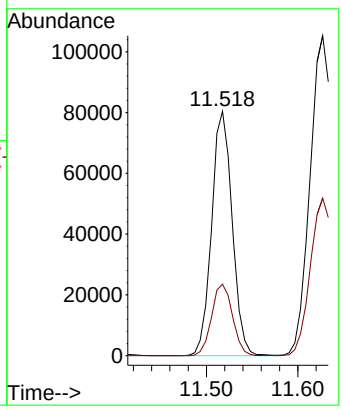


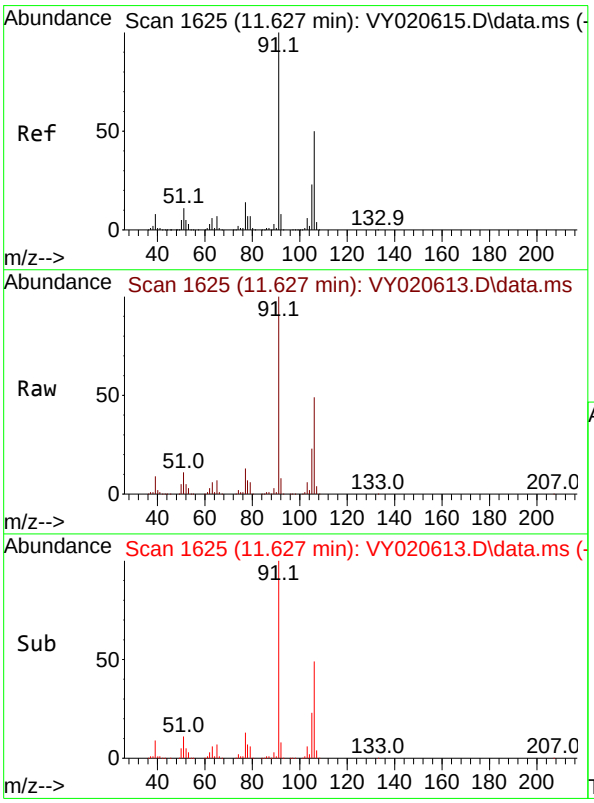

#67
Ethyl Benzene
Concen: 10.649 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 125547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.2 | 23.9 | 35.9 |

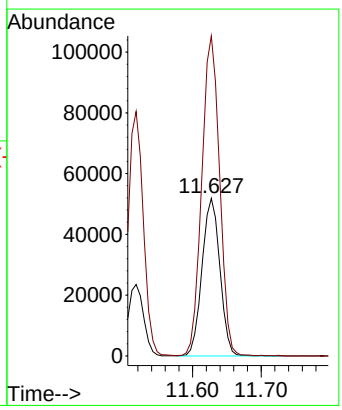


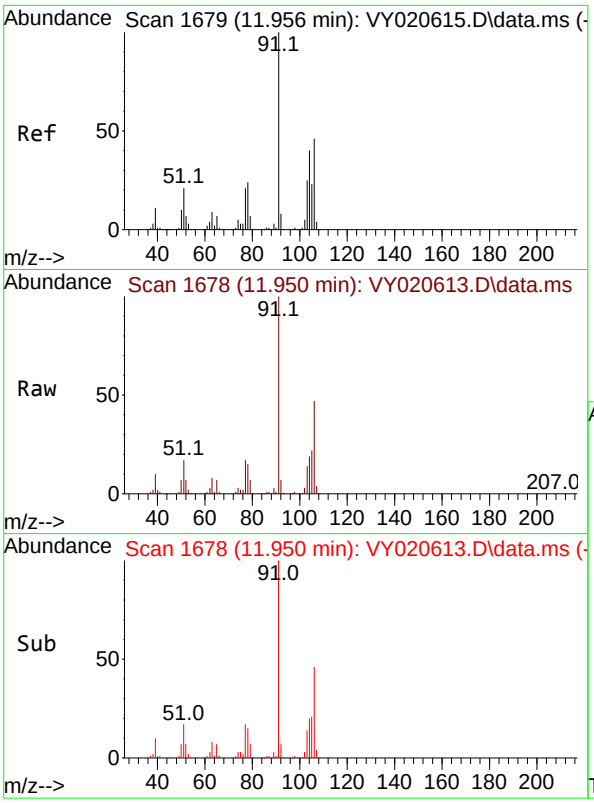




#68
m/p-Xylenes
Concen: 21.506 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:106 Resp: 94273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 202.6 | 165.0 | 247.4 |



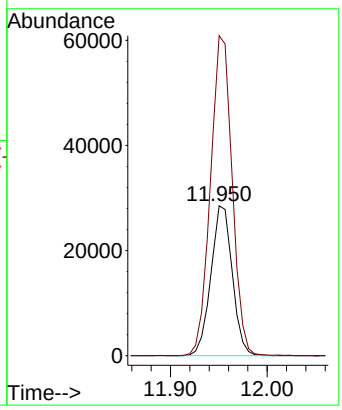


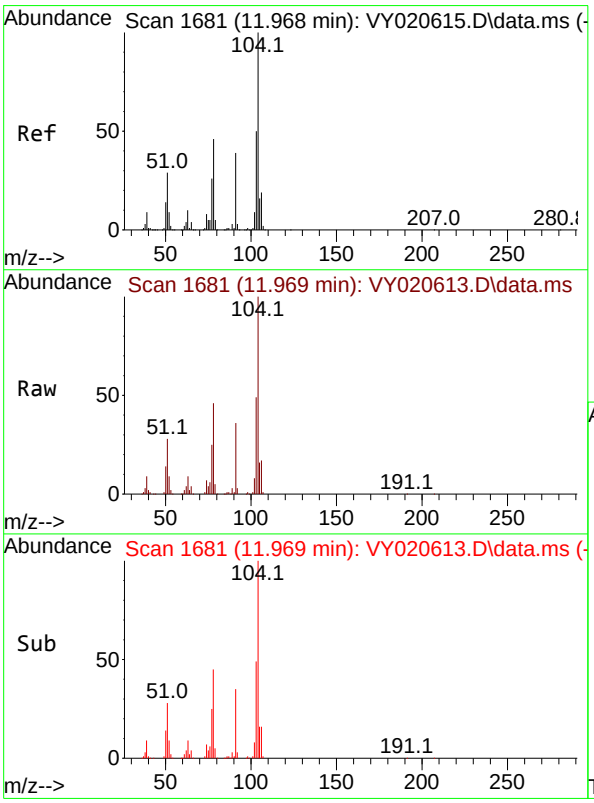

#69
o-Xylene
Concen: 10.684 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:106 Resp: 43697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.0 | 108.4 | 325.2 |

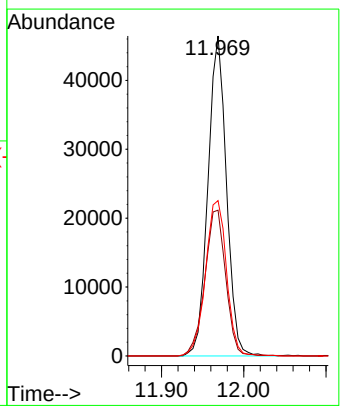


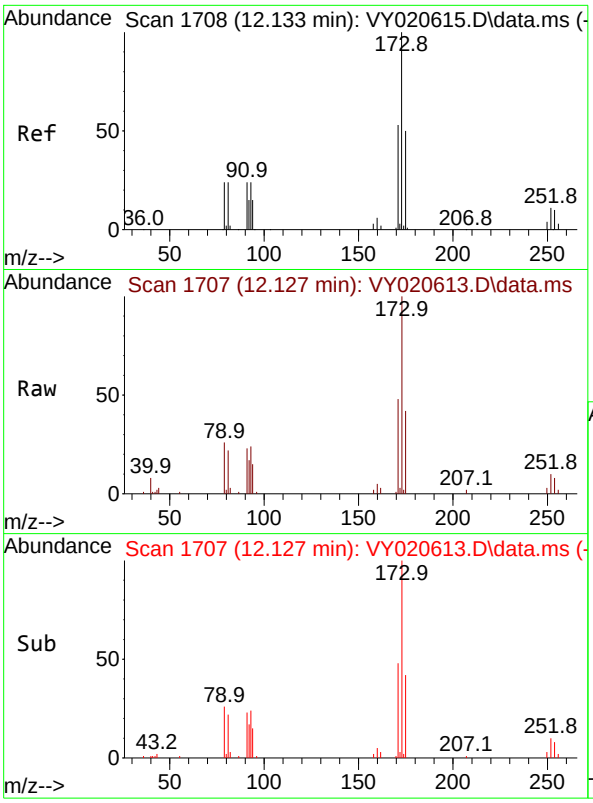




#70
Styrene
Concen: 10.612 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:104 Resp: 72514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.6 | 41.6 | 62.4 |
| 103 | 55.4 | 43.7 | 65.5 |



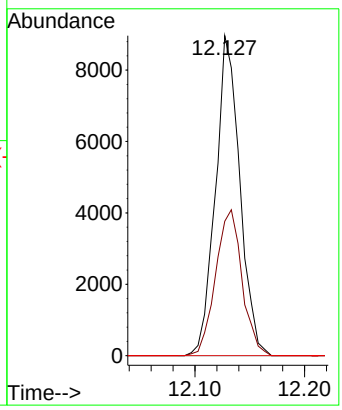


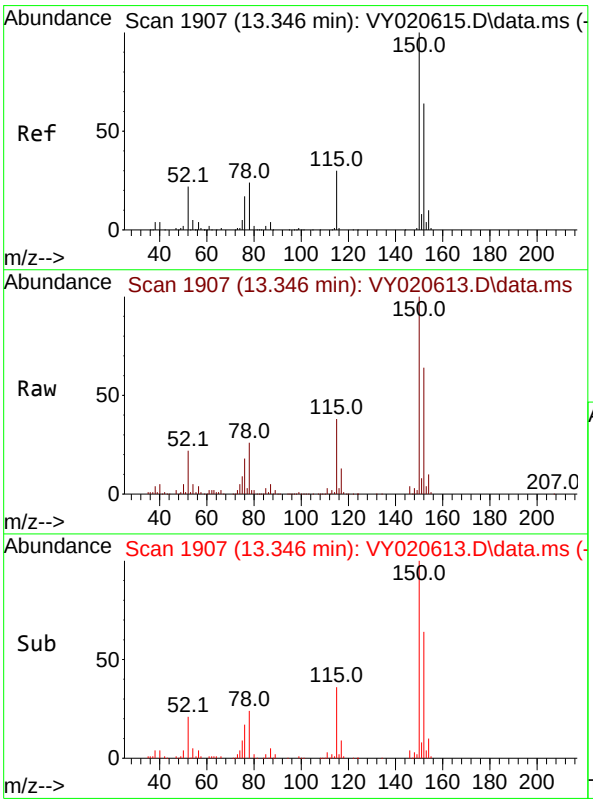

#71
Bromoform
Concen: 11.250 ug/l
RT: 12.127 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:173 Resp: 13822

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.5 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |

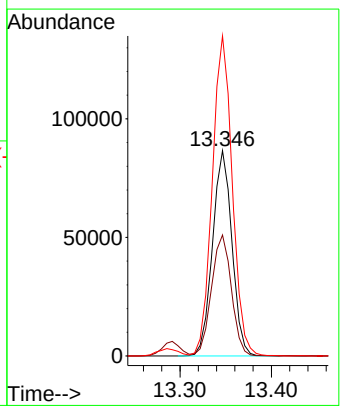


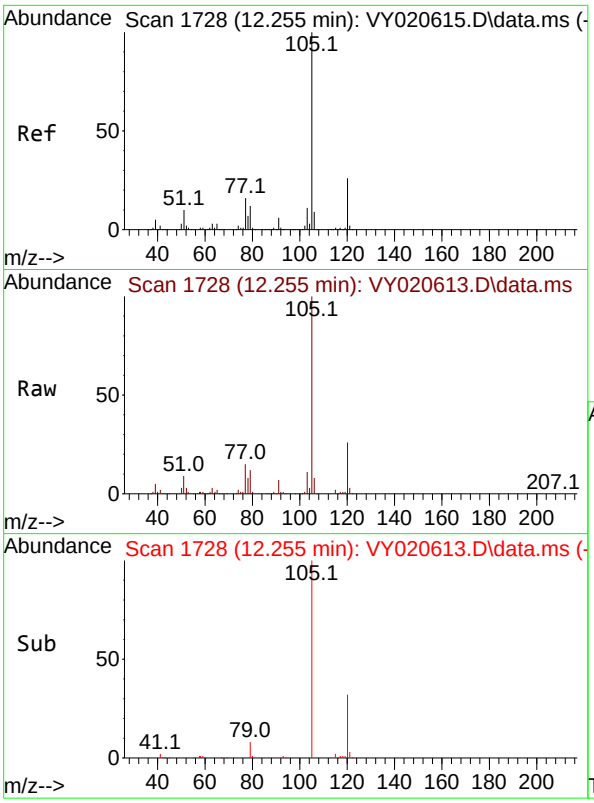




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:152 Resp: 127910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.4 | 30.2 | 90.6 |
| 150 | 160.3 | 0.0 | 355.4 |



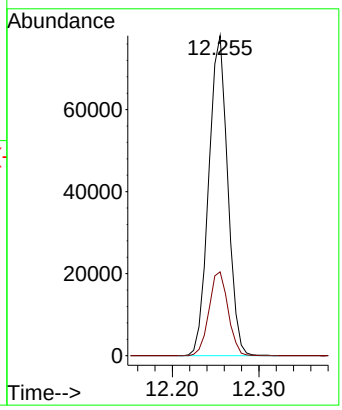


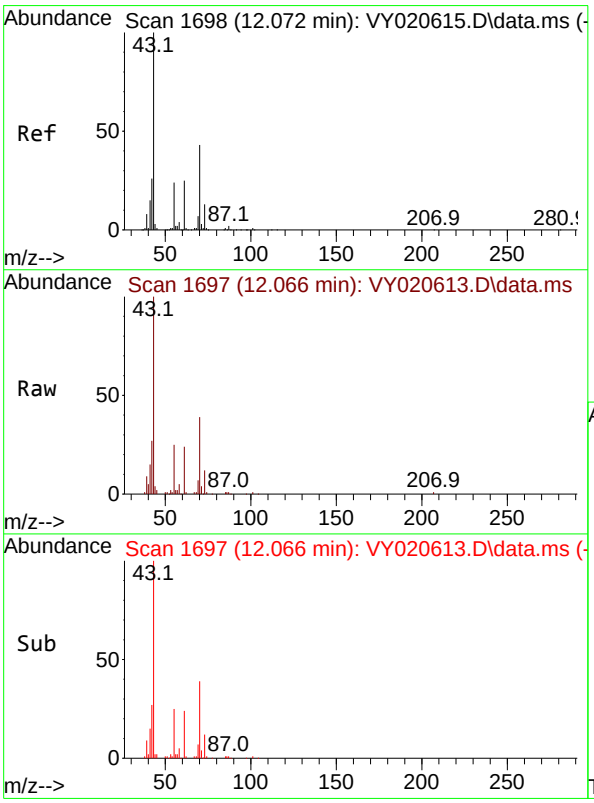

#73
Isopropylbenzene
Concen: 10.624 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:105 Resp: 118590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.1 | 39.1 |

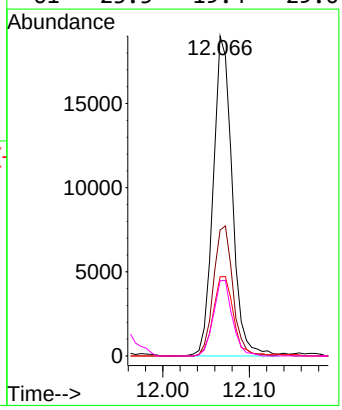


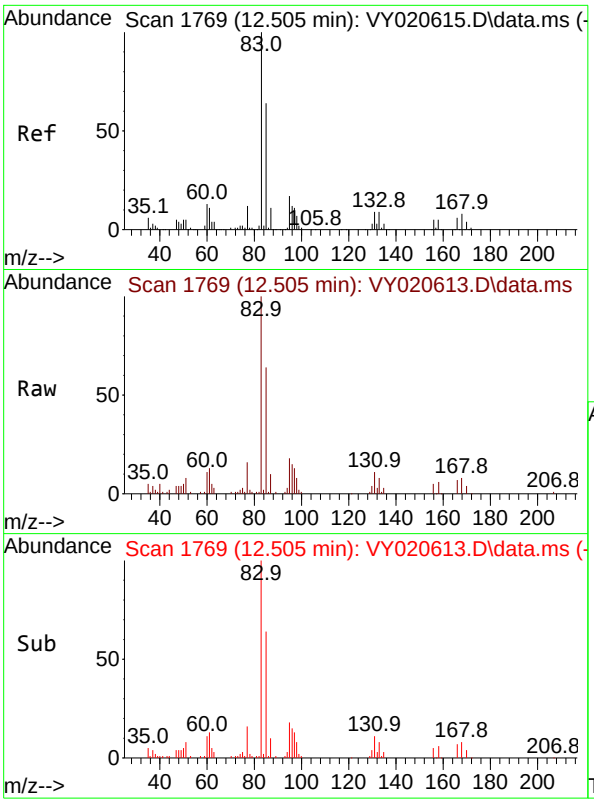




#74
N-amyl acetate
Concen: 11.093 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 43 Resp: 28977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.2 | 34.2 | 51.2 |
| 55 | 26.3 | 19.6 | 29.4 |
| 61 | 23.5 | 19.4 | 29.0 |



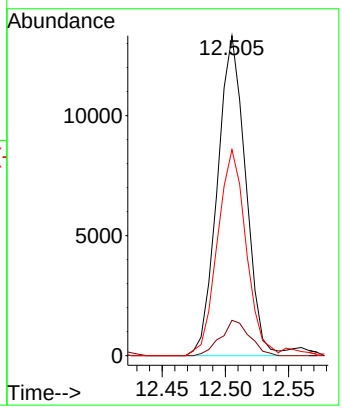


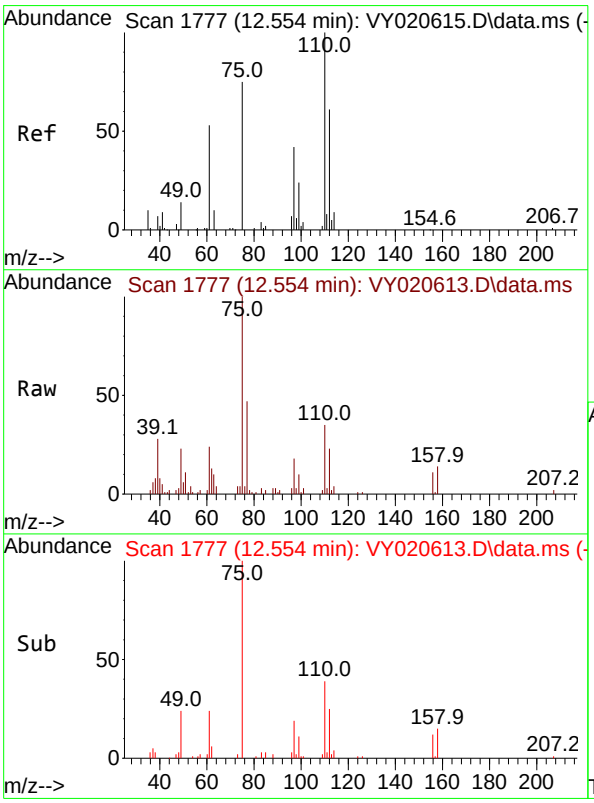

#75
1,1,2,2-Tetrachloroethane
Concen: 11.352 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 20569

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.4 | 5.2 | 15.6 |
| 85 | 65.6 | 32.5 | 97.4 |

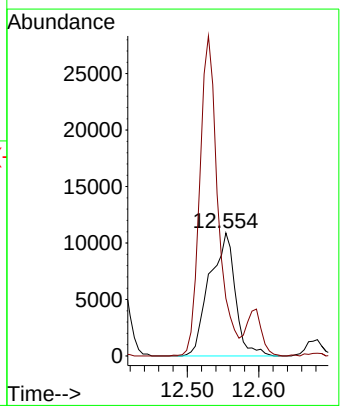


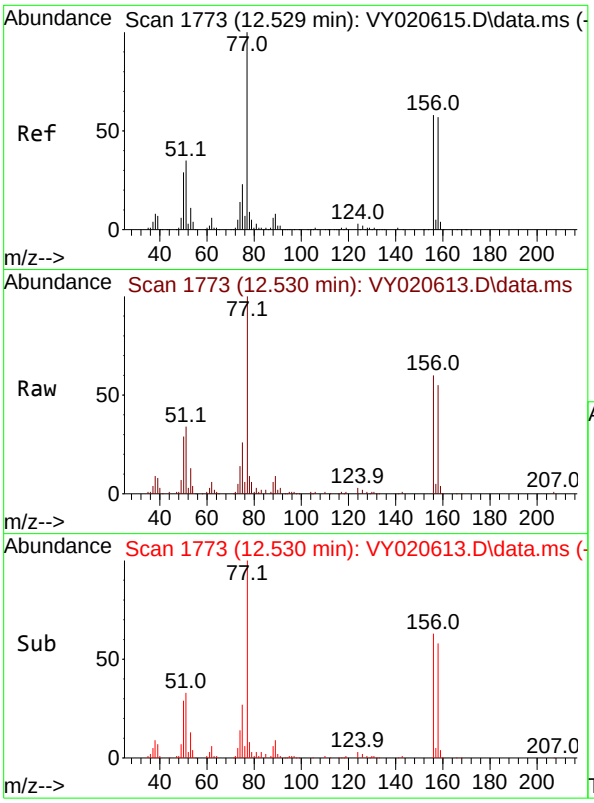




#76
1,2,3-Trichloropropane
Concen: 20.751 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 75 Resp: 27338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



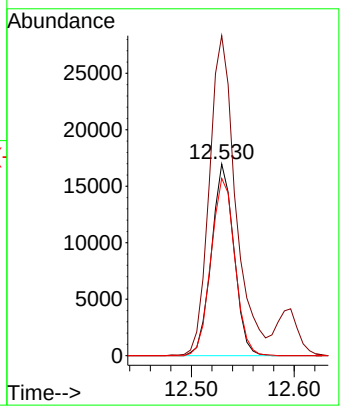


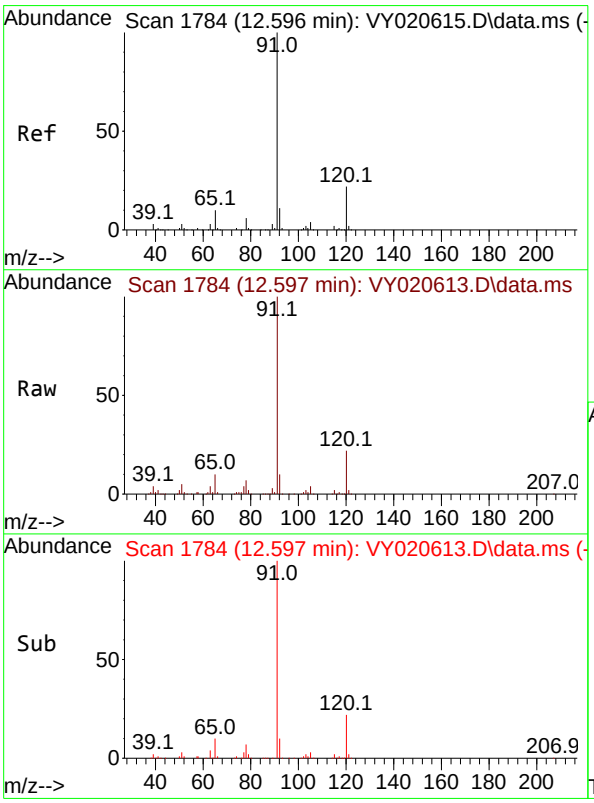

#77
Bromobenzene
Concen: 10.591 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:156 Resp: 25752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 195.4 | 94.2 | 282.4 |
| 158 | 97.9 | 48.9 | 146.6 |

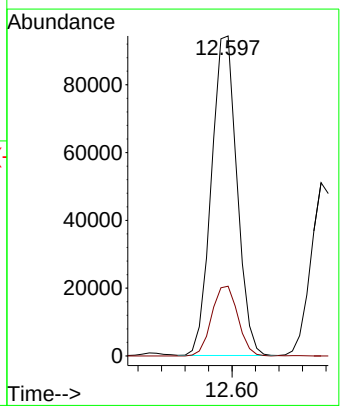


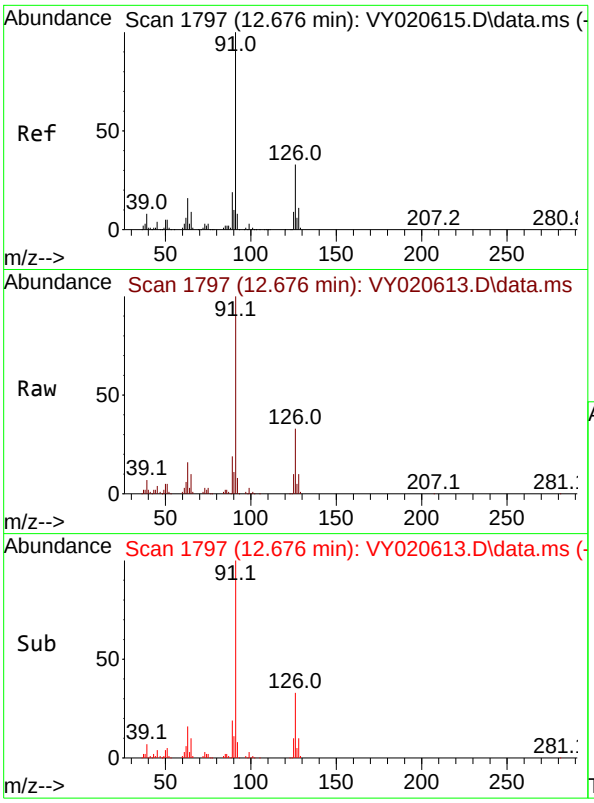




#78
n-propylbenzene
Concen: 10.588 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 91 Resp: 142396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.3 | 11.1 | 33.1 |



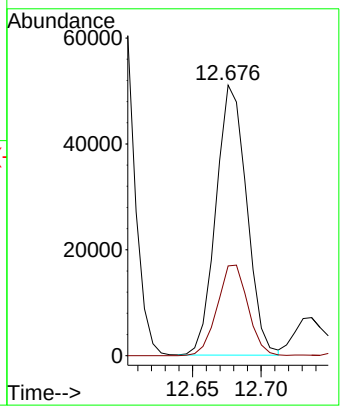


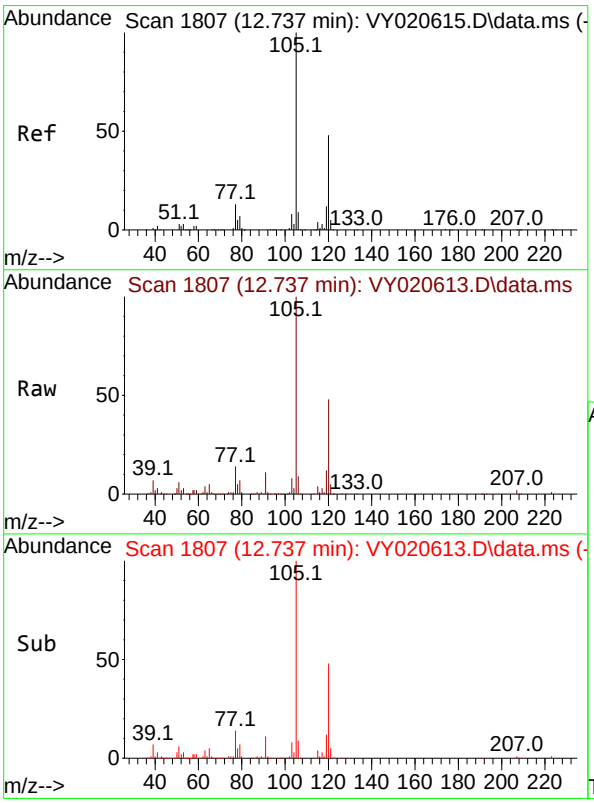

#79
2-Chlorotoluene
Concen: 10.527 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 79651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.5 | 16.6 | 49.7 |

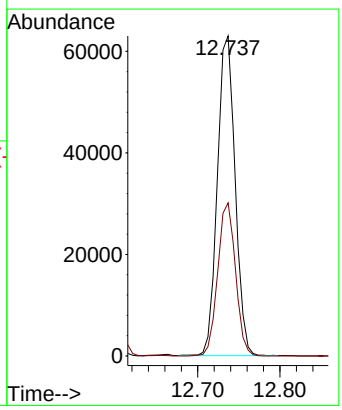


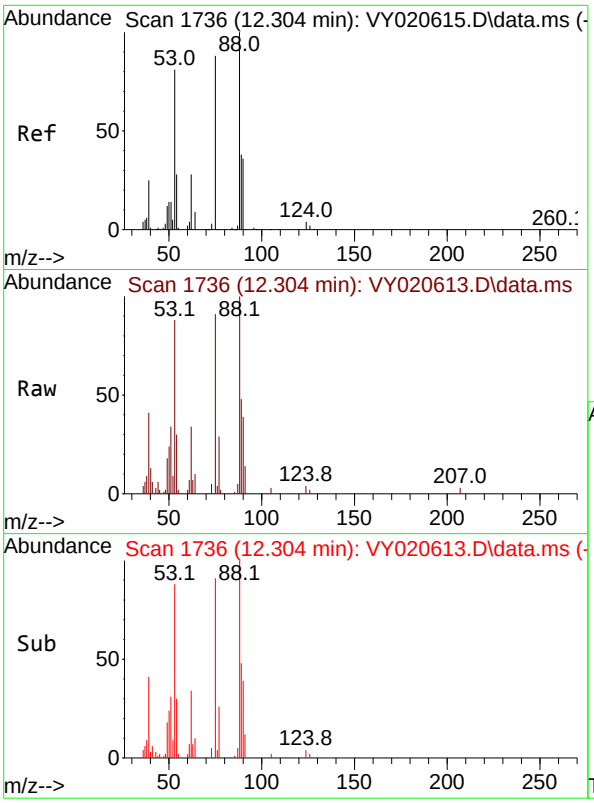




#80
1,3,5-Trimethylbenzene
Concen: 10.453 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:105 Resp: 94672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.9 | 71.7 |



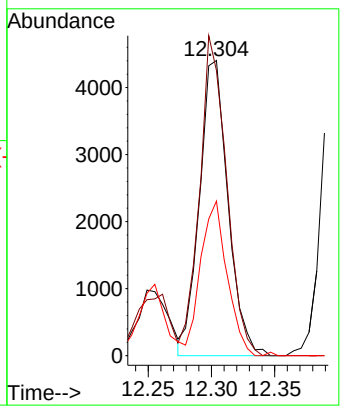


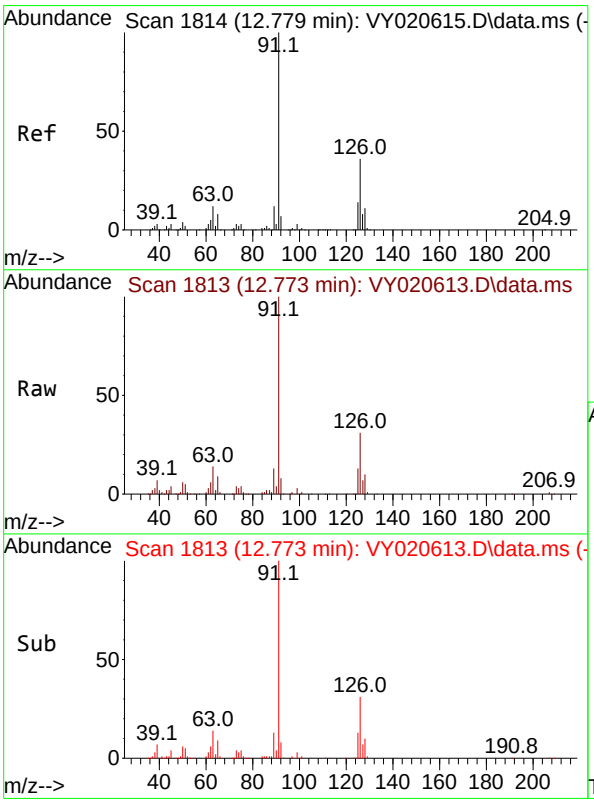

#81
trans-1,4-Dichloro-2-butene
Concen: 10.913 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 75 Resp: 6908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 102.6 | 75.4 | 113.2 |
| 89 | 48.3 | 37.0 | 55.4 |

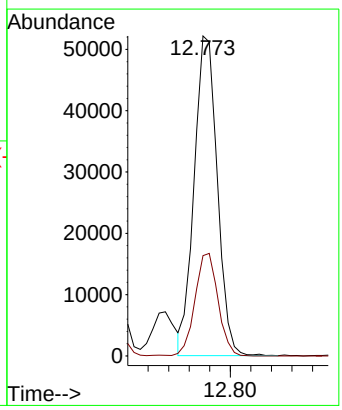


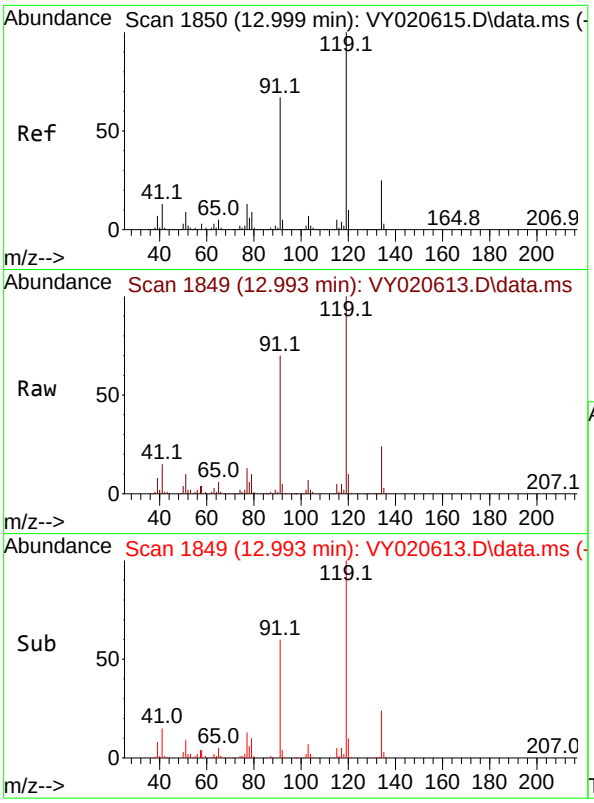




#82
4-Chlorotoluene
Concen: 10.380 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 91 Resp: 81482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.2 | 16.6 | 49.7 |



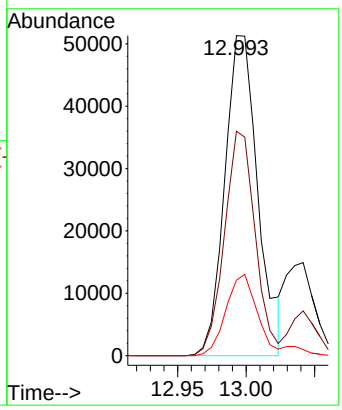


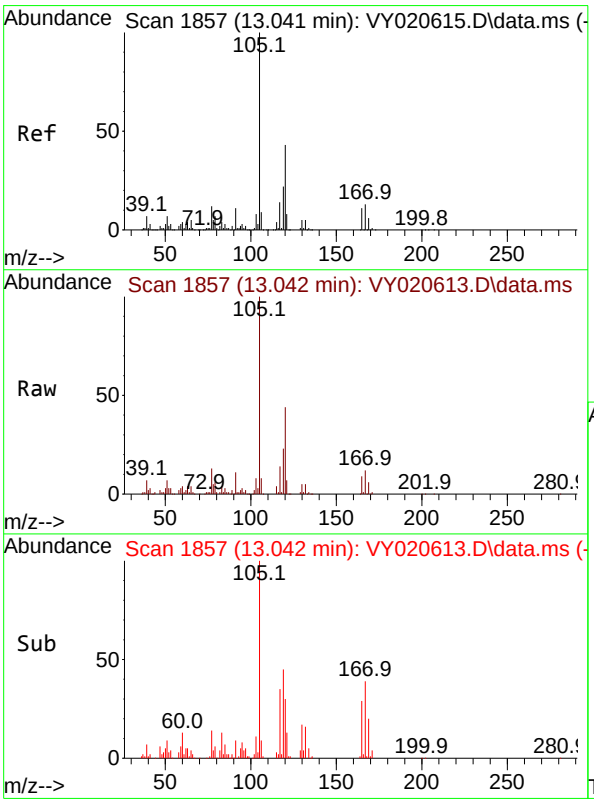

#83
tert-Butylbenzene
Concen: 10.534 ug/l
RT: 12.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:119 Resp: 86405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.2 | 32.9 | 98.6 |
| 134 | 25.8 | 13.1 | 39.1 |

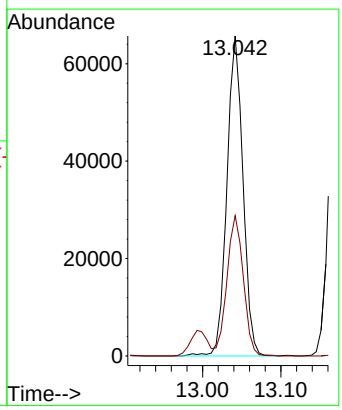


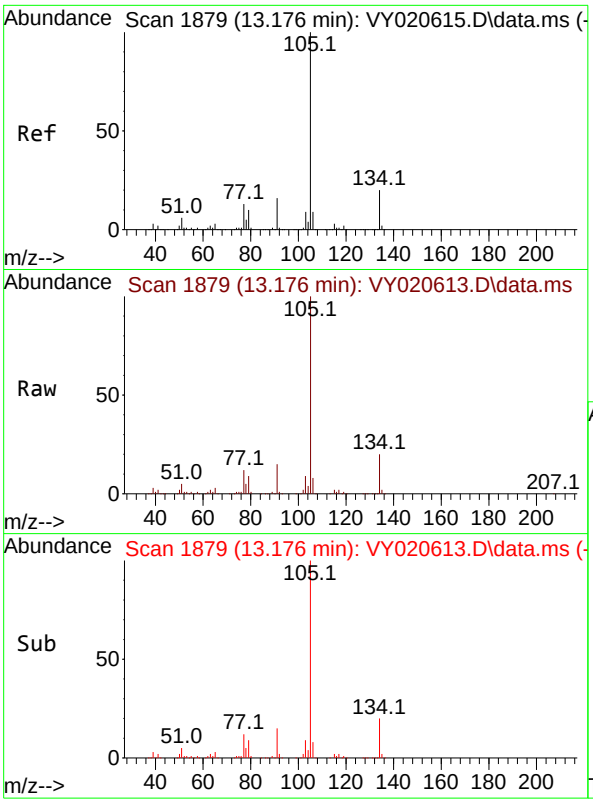




#84
1,2,4-Trimethylbenzene
Concen: 10.539 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:105 Resp: 93630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.9 | 21.8 | 65.4 |



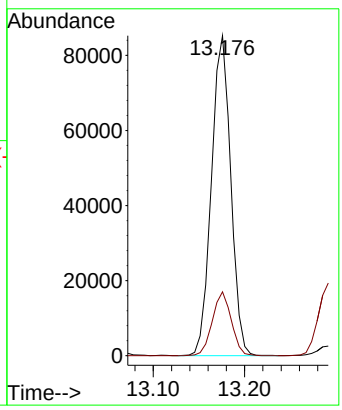


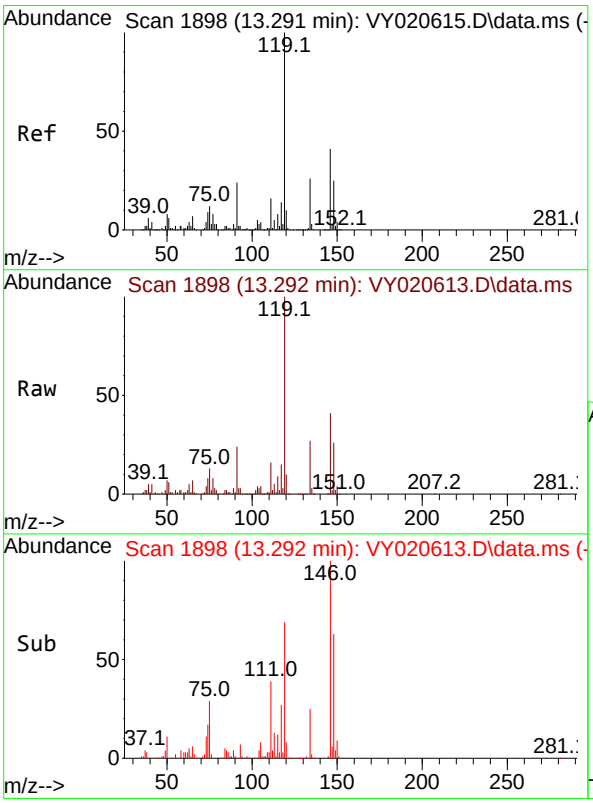

#85
sec-Butylbenzene
Concen: 10.497 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:105 Resp: 125189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.6 | 10.0 | 30.0 |

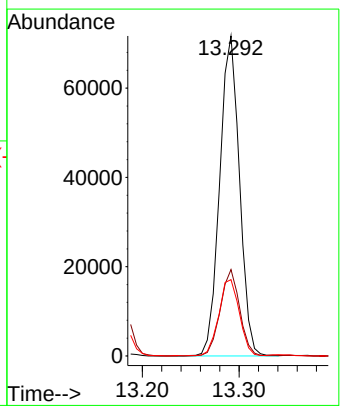


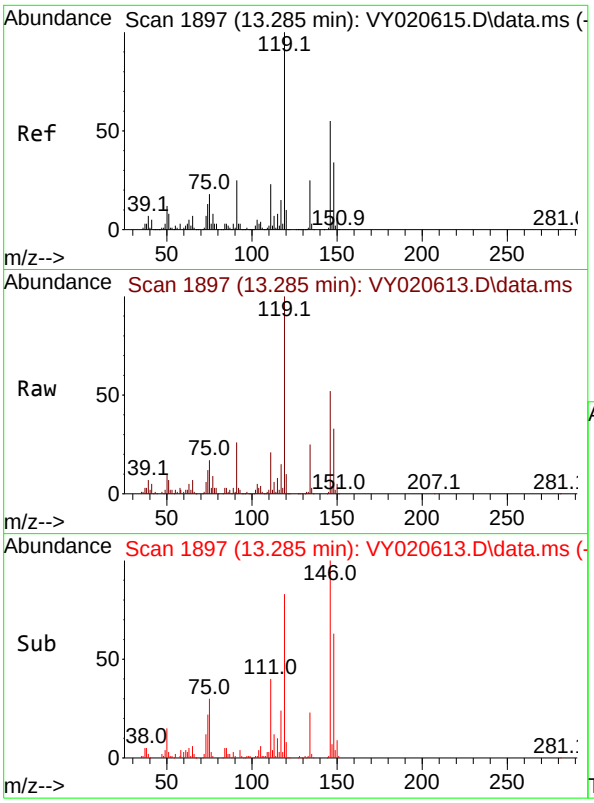




#86
p-Isopropyltoluene
Concen: 10.342 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:119 Resp: 101690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.6 | 12.9 | 38.6 |
| 91 | 24.7 | 12.1 | 36.3 |



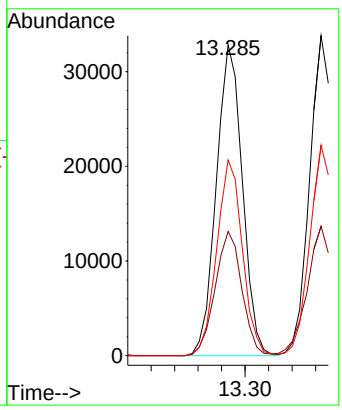


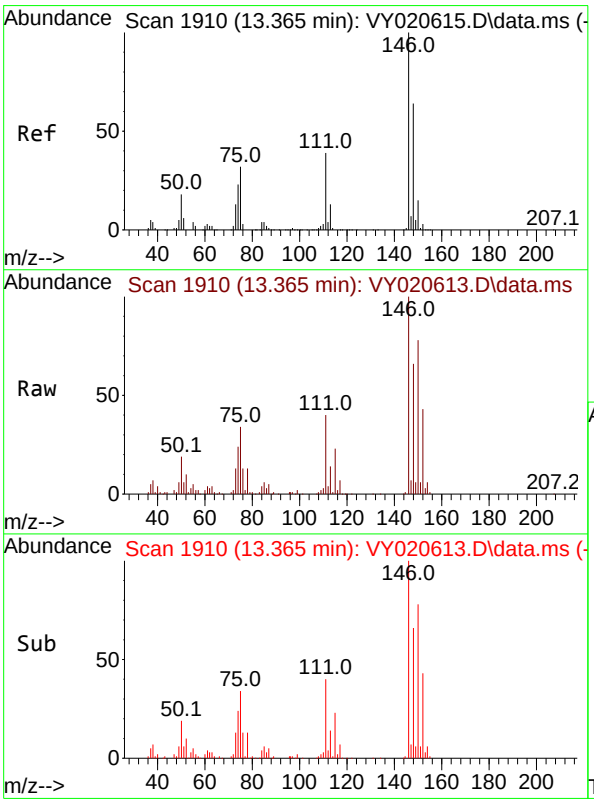

#87
1,3-Dichlorobenzene
Concen: 10.561 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:146 Resp: 50691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.6 | 61.8 |
| 148 | 62.1 | 31.4 | 94.0 |

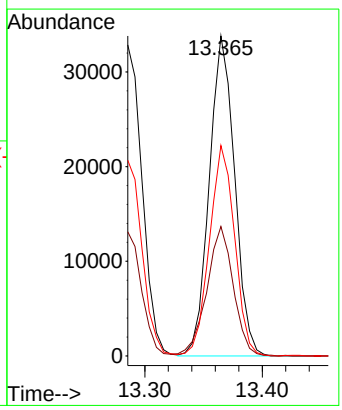


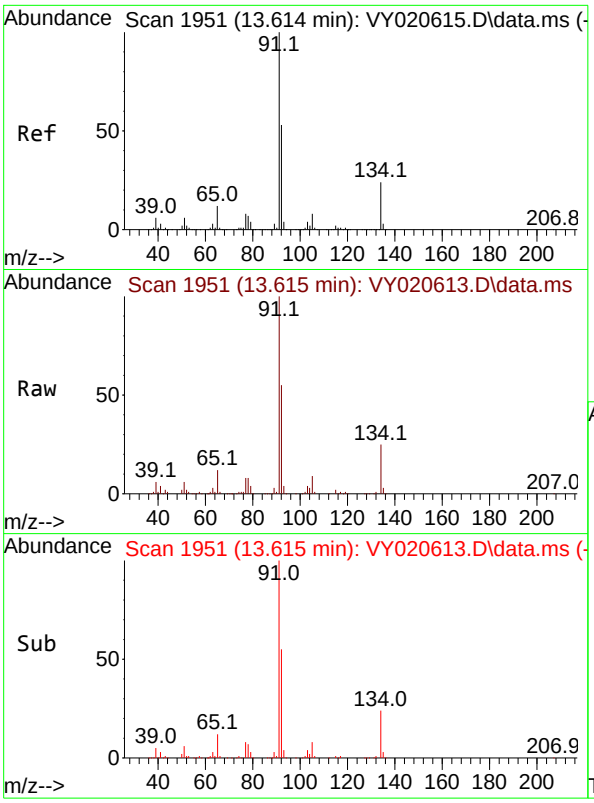




#88
1,4-Dichlorobenzene
Concen: 10.658 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:146 Resp: 50665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.4 | 19.6 | 58.7 |
| 148 | 65.3 | 31.9 | 95.5 |



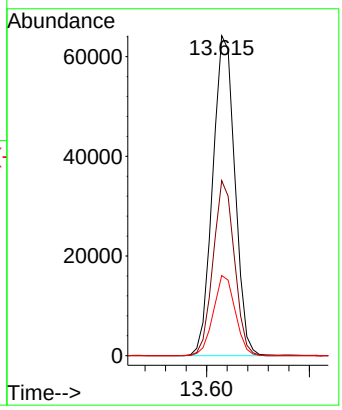


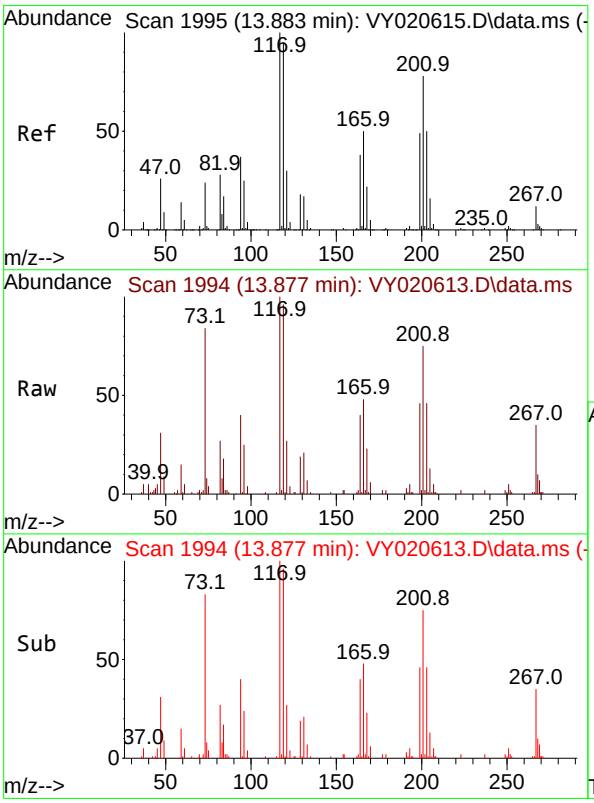

#89
n-Butylbenzene
Concen: 10.307 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 96052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.4 | 26.8 | 80.4 |
| 134 | 24.7 | 12.5 | 37.5 |

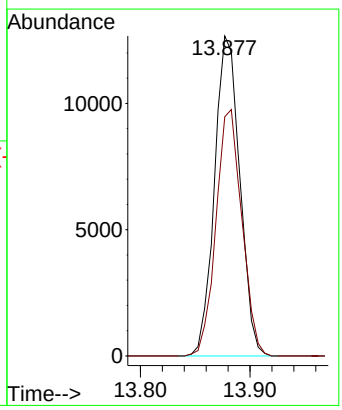


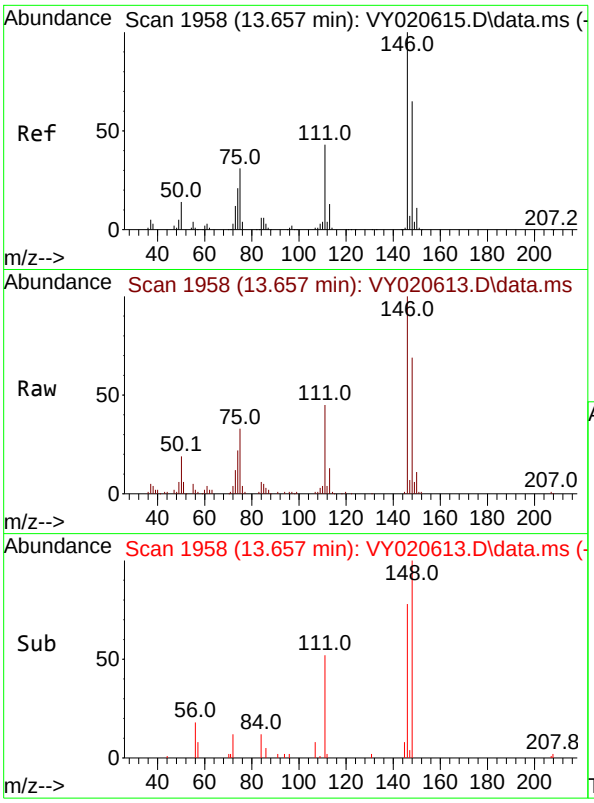




#90
Hexachloroethane
Concen: 10.430 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:117 Resp: 20324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.7 | 39.1 | 117.3 |



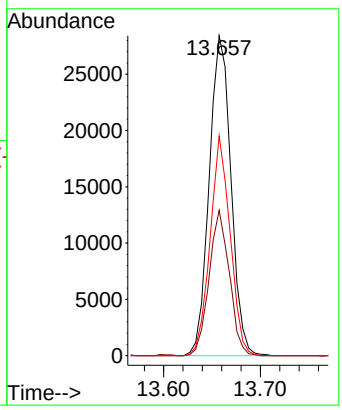


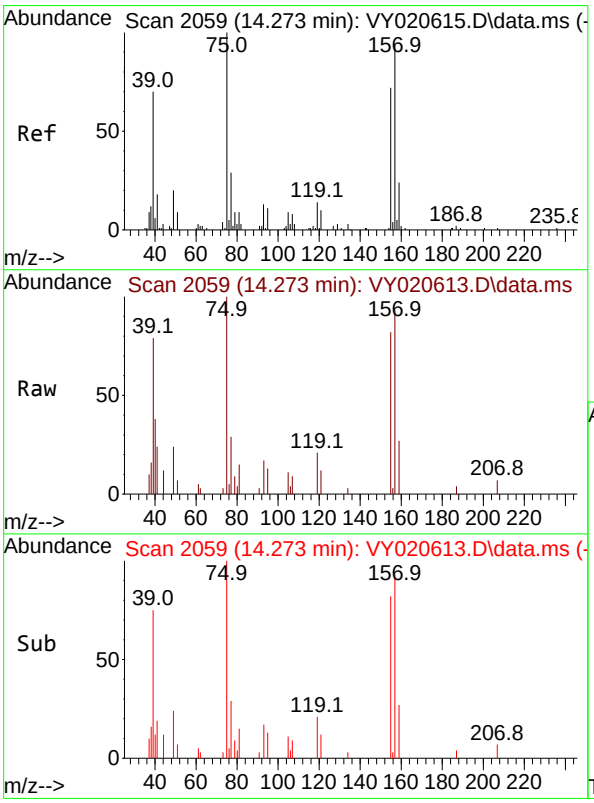

#91
1,2-Dichlorobenzene
Concen: 10.674 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:146 Resp: 44391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.3 | 21.3 | 63.7 |
| 148 | 63.3 | 32.0 | 96.0 |

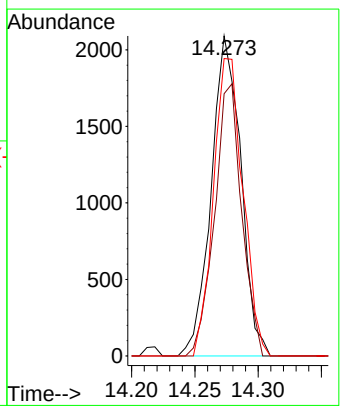


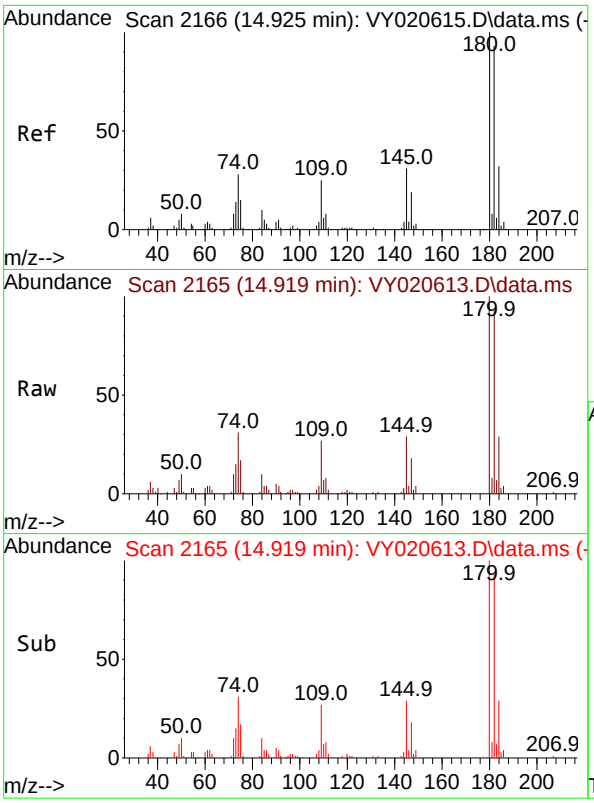




#92
1,2-Dibromo-3-Chloropropane
Concen: 11.579 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion: 75 Resp: 3406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 78.1 | 41.1 | 123.3 |
| 157 | 92.3 | 52.9 | 158.8 |



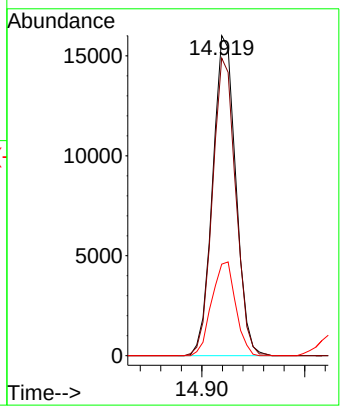


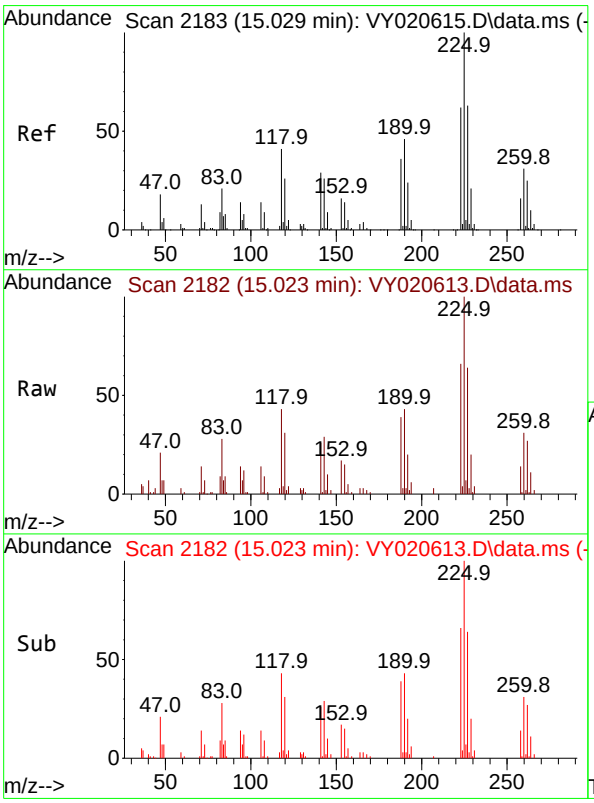

#93
1,2,4-Trichlorobenzene
Concen: 9.920 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:180 Resp: 24954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.2 | 47.9 | 143.6 |
| 145 | 30.3 | 15.6 | 46.7 |

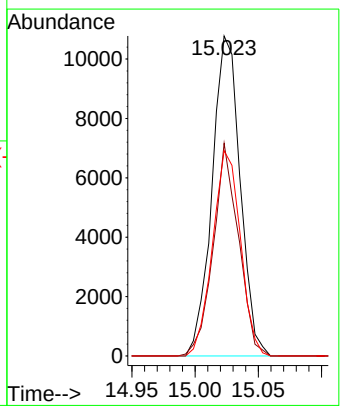


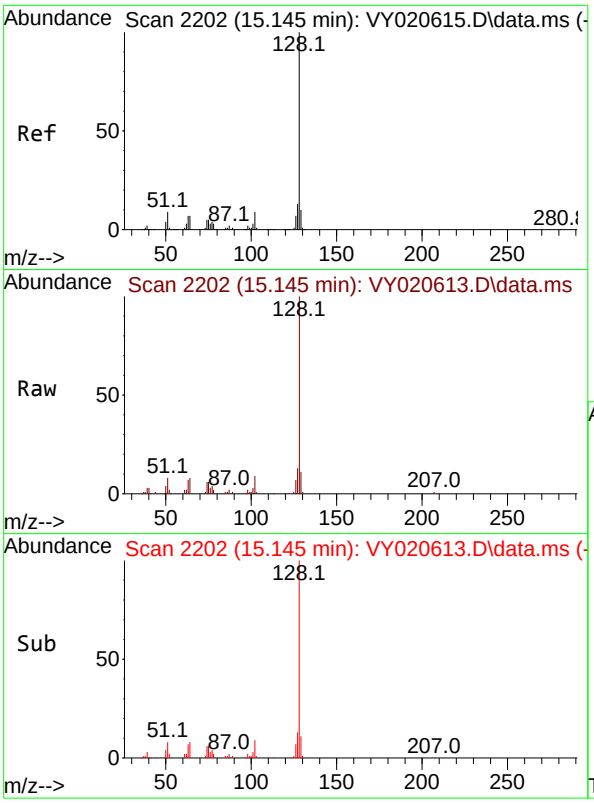




#94
Hexachlorobutadiene
Concen: 10.107 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:225 Resp: 16620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 59.8 | 31.8 | 95.3 |
| 227 | 63.6 | 32.2 | 96.6 |



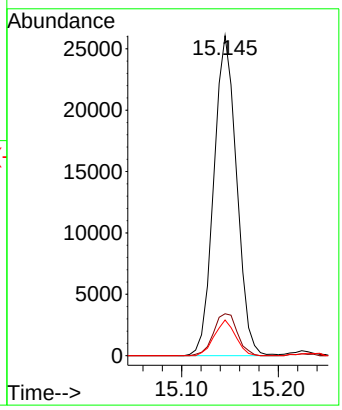


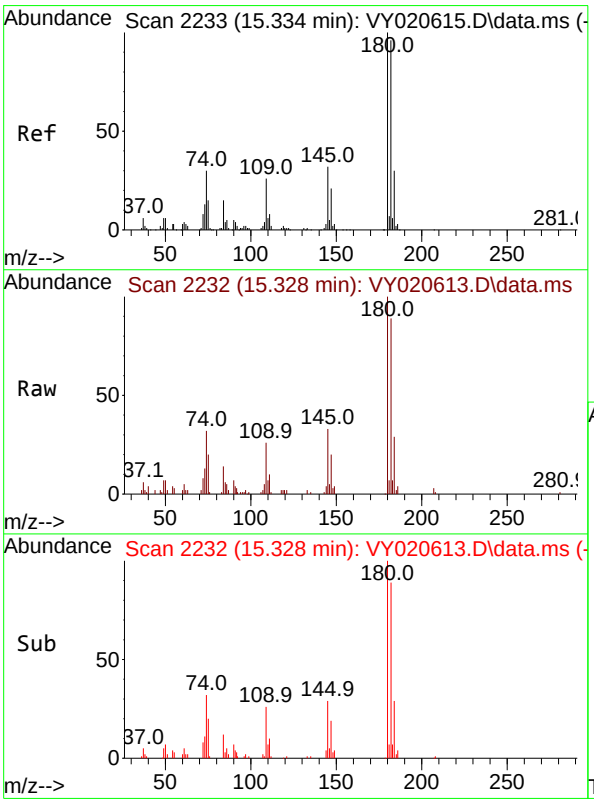

#95
Naphthalene
Concen: 9.901 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:128 Resp: 42698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.8 | 10.7 | 16.1 |
| 129 | 10.4 | 8.5 | 12.7 |

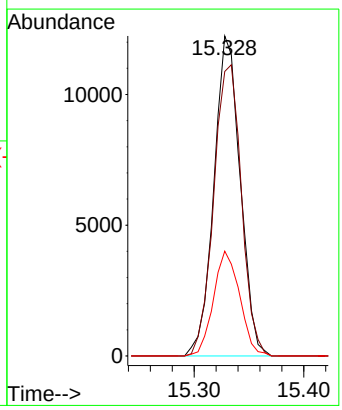



#96
1,2,3-Trichlorobenzene
Concen: 9.602 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.006 min
Lab File: VY020613.D
Acq: 17 Dec 2024 10:01

Tgt Ion:180 Resp: 20408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.3 | 141.9 |
| 145 | 32.7 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 177160 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 272612 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 241222 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 131827 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 34492 | 17.777 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 35.560%# | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 35742 | 18.603 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 37.200%# | | |
| 50) Toluene-d8 | 10.103 | 98 | 122846 | 18.267 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 36.540%# | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 48801 | 18.552 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 37.100% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 44875 | 20.280 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 35845 | 21.863 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 33253 | 21.791 | ug/l | 100 |
| 5) Bromomethane | 2.586 | 94 | 19758 | 20.142 | ug/l | 100 |
| 6) Chloroethane | 2.732 | 64 | 20312 | 21.539 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 67594 | 21.169 | ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 23380 | 20.878 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.817 | 101 | 46696 | 20.403 | ug/l | 100 |
| 10) Methyl Iodide | 4.000 | 142 | 52895 | 20.758 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.866 | 59 | 25807 | 106.274 | ug/l # | 93 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 45124 | 20.319 | ug/l | 99 |
| 13) Acrolein | 3.653 | 56 | 11611 | 126.557 | ug/l | 94 |
| 14) Allyl chloride | 4.384 | 41 | 79257 | 20.368 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 51118 | 95.416 | ug/l | 99 |
| 16) Acetone | 3.866 | 43 | 38075 | 94.781 | ug/l | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 147576 | 20.416 | ug/l | 100 |
| 18) Methyl Acetate | 4.384 | 43 | 24886 | 18.851 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.110 | 73 | 112241 | 19.582 | ug/l | 96 |
| 20) Methylene Chloride | 4.616 | 84 | 48431 | 20.076 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 49814 | 19.997 | ug/l | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 158410 | 20.055 | ug/l | 97 |
| 23) Vinyl Acetate | 5.963 | 43 | 441039 | 98.587 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 92599 | 20.011 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 67498 | 93.608 | ug/l | 98 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 86393 | 19.750 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 57749 | 20.149 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 24987 | 16.009 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.256 | 42 | 44636 | 98.059 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 103806 | 19.065 | ug/l | 99 |
| 31) Cyclohexane | 7.701 | 56 | 88339 | 19.966 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 86081 | 20.249 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 69466 | 19.828 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 31585 | 19.166 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 77945 | 20.109 | ug/l | 96 |
| 39) Methylcyclohexane | 9.103 | 83 | 92458 | 20.249 | ug/l | 97 |
| 40) Benzene | 8.079 | 78 | 207185 | 20.176 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.213 | 41 | 15884 | 18.232 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 54425 | 19.983 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 60446 | 19.375 | ug/l | # | 88 |
| 44) Trichloroethene | 8.865 | 130 | 50346 | 19.952 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 49119 | 20.466 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 25054 | 19.753 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 68951 | 20.125 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 28256 | 19.051 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.225 | 88 | 5399 | 371.167 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 157955 | 95.918 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 129196 | 20.245 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 62391 | 19.543 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 75647 | 19.996 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 33330 | 19.875 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.438 | 69 | 46055 | 18.930 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 59274 | 19.828 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 96023 | 93.804 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 99623 | 94.224 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 43825 | 19.541 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 30621 | 19.630 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 44735 | 19.716 | ug/l | | 98 |
| 65) Chlorobenzene | 11.438 | 112 | 134807 | 19.987 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 45146 | 19.574 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.517 | 91 | 249208 | 20.027 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 183488 | 39.659 | ug/l | | 98 |
| 69) o-Xylene | 11.950 | 106 | 86043 | 19.932 | ug/l | | 98 |
| 70) Styrene | 11.968 | 104 | 144333 | 20.012 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 24718 | 19.062 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 234727 | 20.404 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 52699 | 19.574 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 36998 | 19.813 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 50299 | 37.046 | ug/l | # | 100 |
| 77) Bromobenzene | 12.529 | 156 | 50276 | 20.063 | ug/l | | 99 |
| 78) n-propylbenzene | 12.596 | 91 | 284604 | 20.534 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 158834 | 20.369 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 190968 | 20.458 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 13039 | 19.986 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.773 | 91 | 164692 | 20.358 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 173358 | 20.507 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 186344 | 20.352 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 251880 | 20.492 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 208342 | 20.558 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 100815 | 20.380 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 97668 | 19.935 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.615 | 91 | 196997 | 20.511 | ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 40281 | 20.057 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 85128 | 19.862 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 5627 | 18.561 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 48869 | 18.850 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 33524 | 19.781 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 80562 | 18.126 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 41686 | 19.031 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

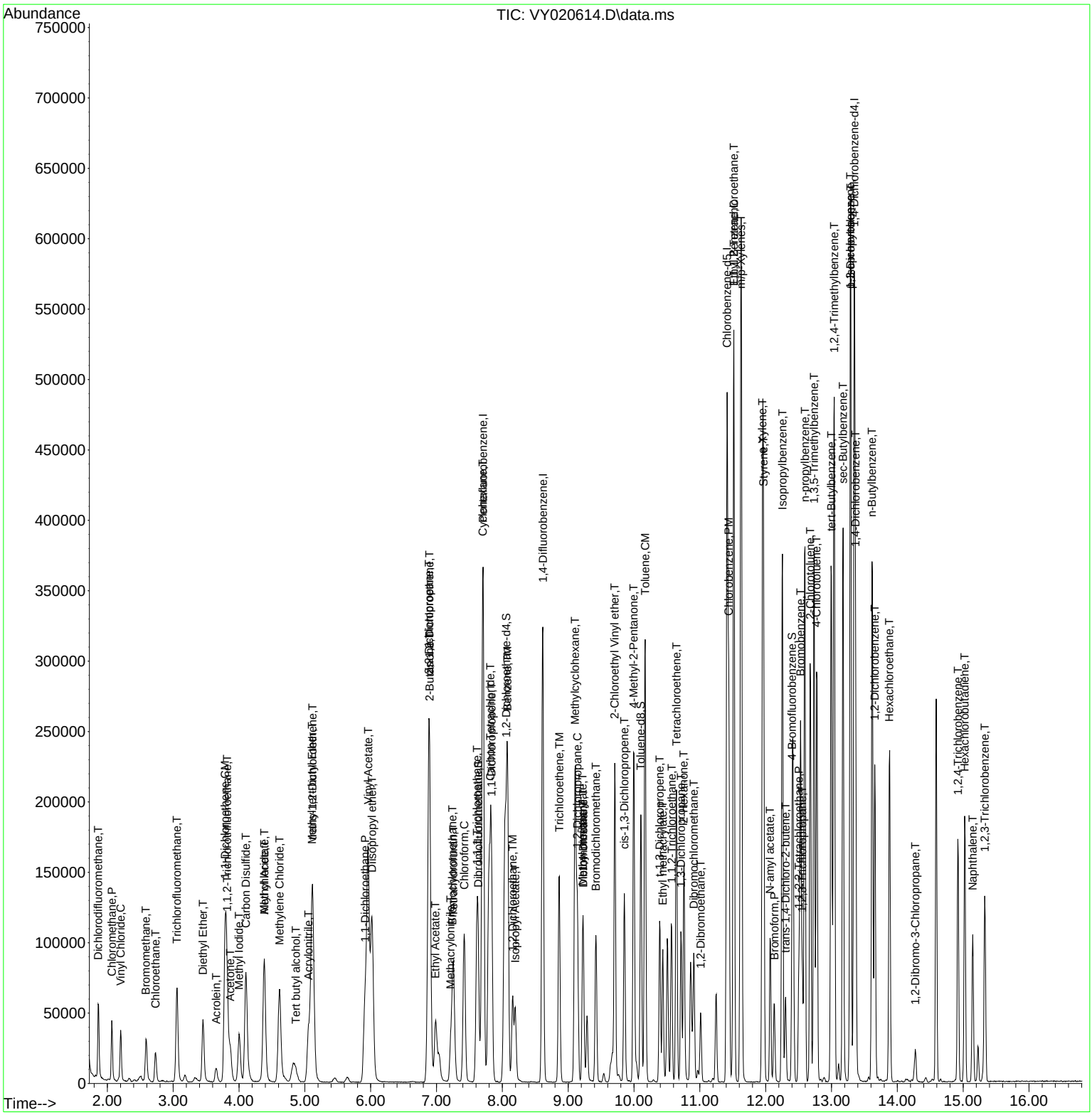
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

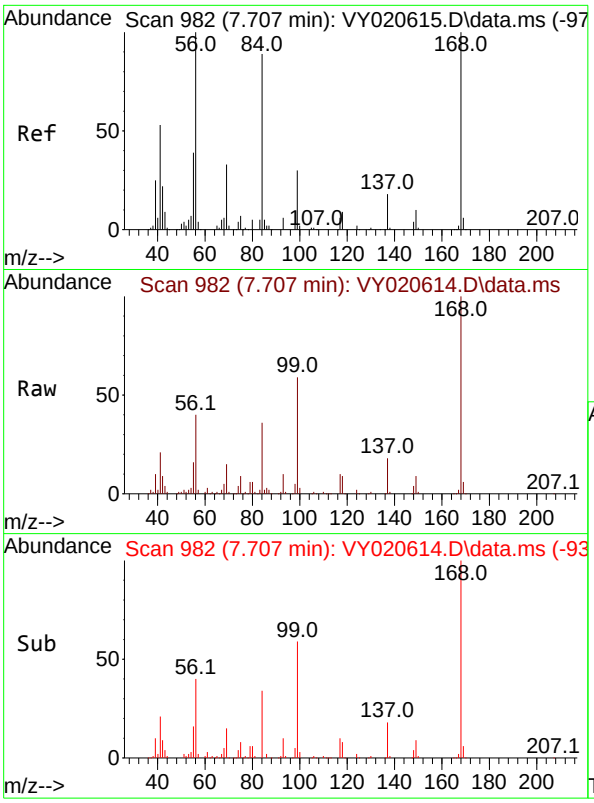
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020614.D
Acq On : 17 Dec 2024 10:23
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Dec 18 04:51:48 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration



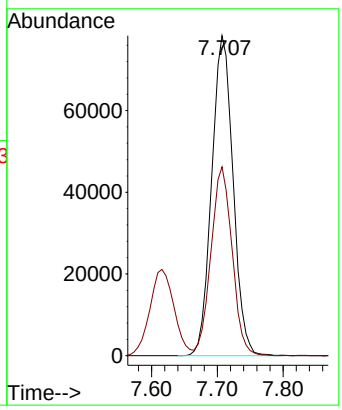


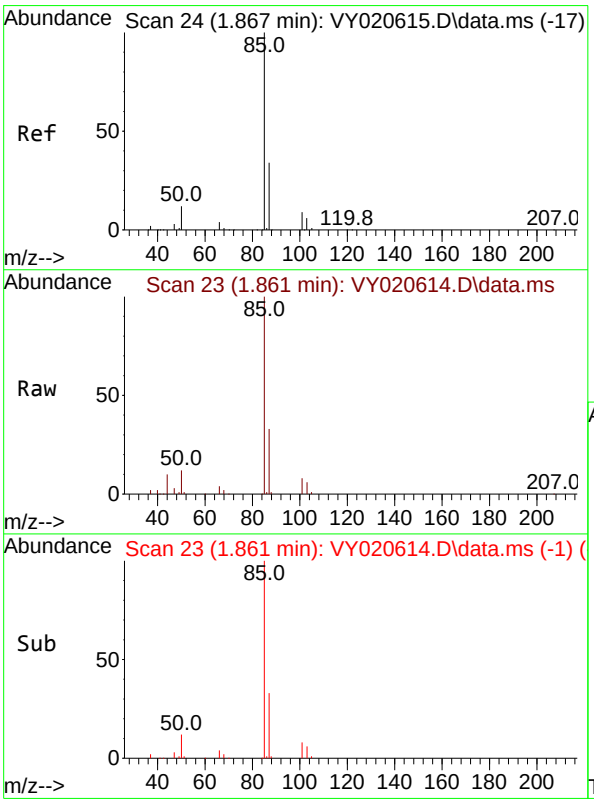

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:168 Resp: 177160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.0 | 47.0 | 70.6 |

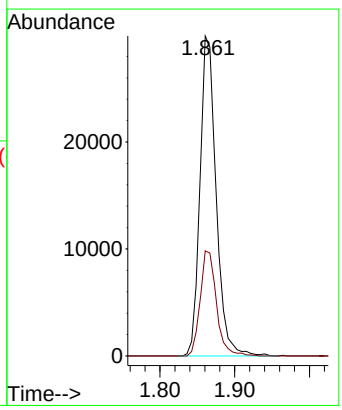


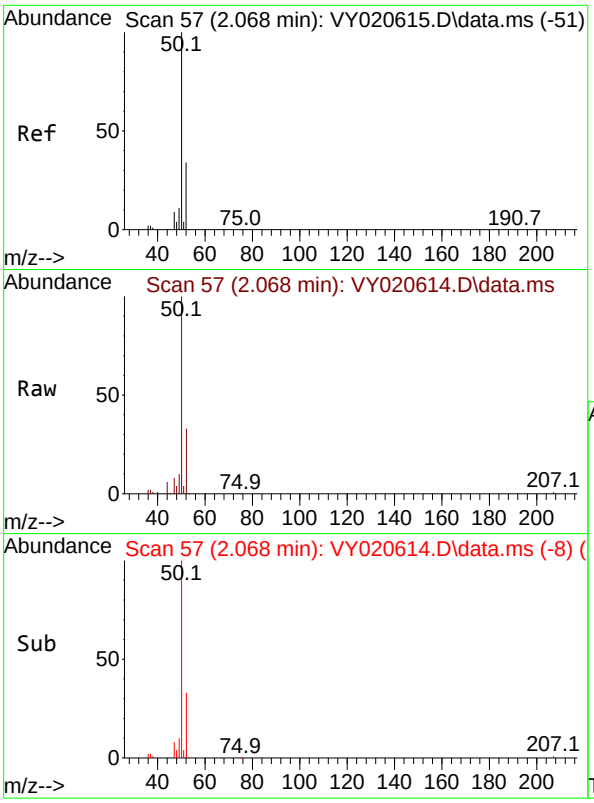




#2
Dichlorodifluoromethane
Concen: 20.280 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 85 Resp: 44875

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.8 | 16.8 | 50.3 |



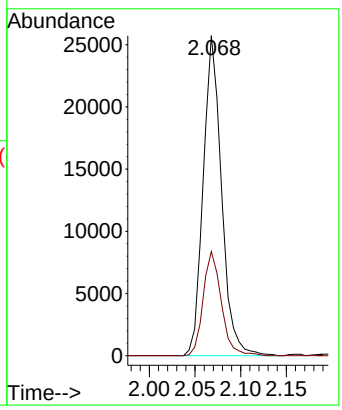


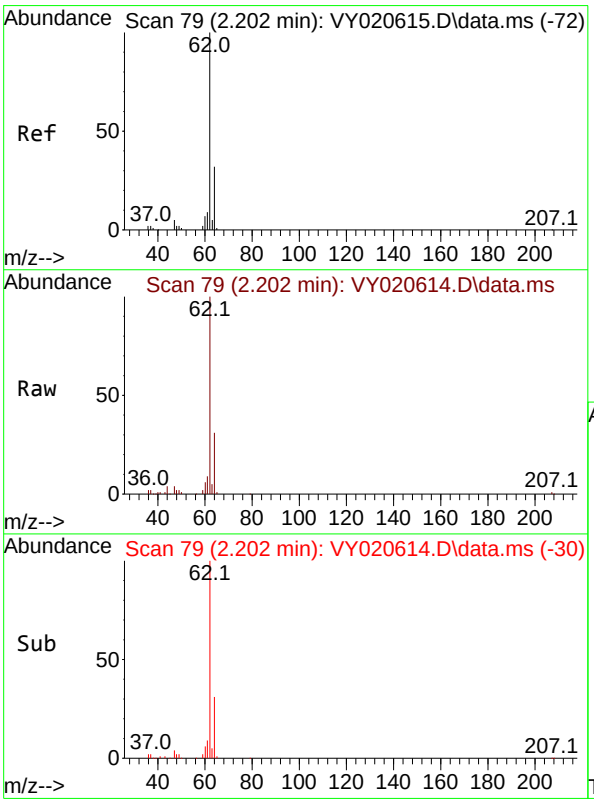

#3
Chloromethane
Concen: 21.863 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 50 Resp: 35845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.5 | 26.8 | 40.2 |

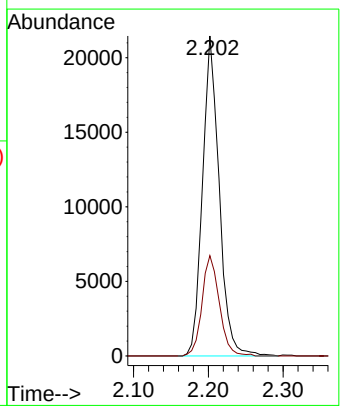


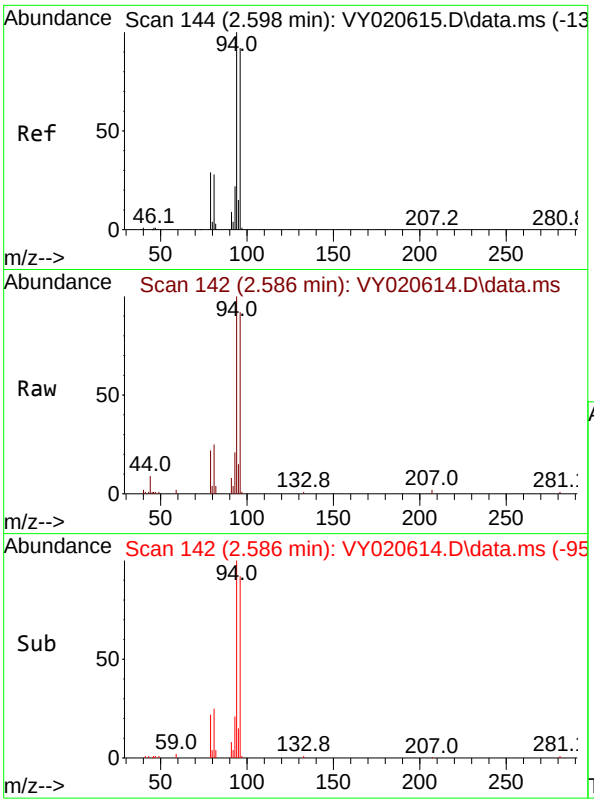




#4
Vinyl Chloride
Concen: 21.791 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 62 Resp: 33253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 25.3 | 37.9 |



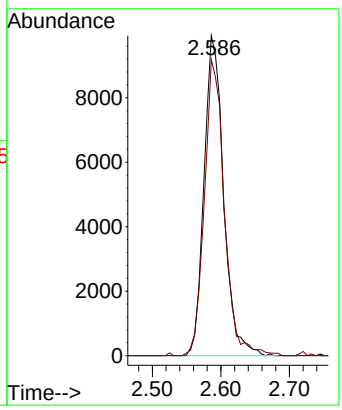


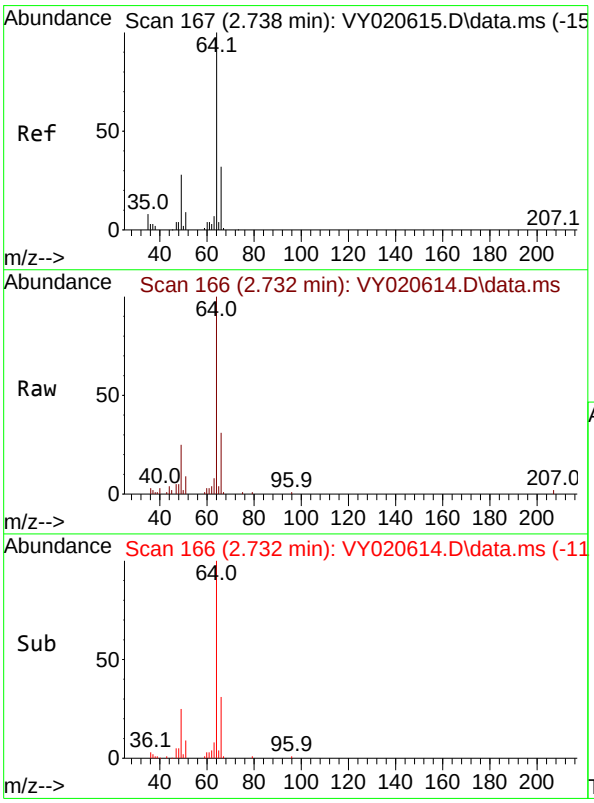

#5
Bromomethane
Concen: 20.142 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 94 Resp: 19758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.5 | 73.8 | 110.6 |

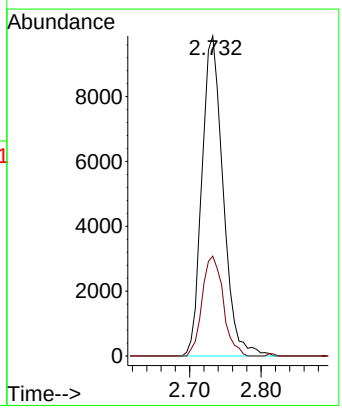


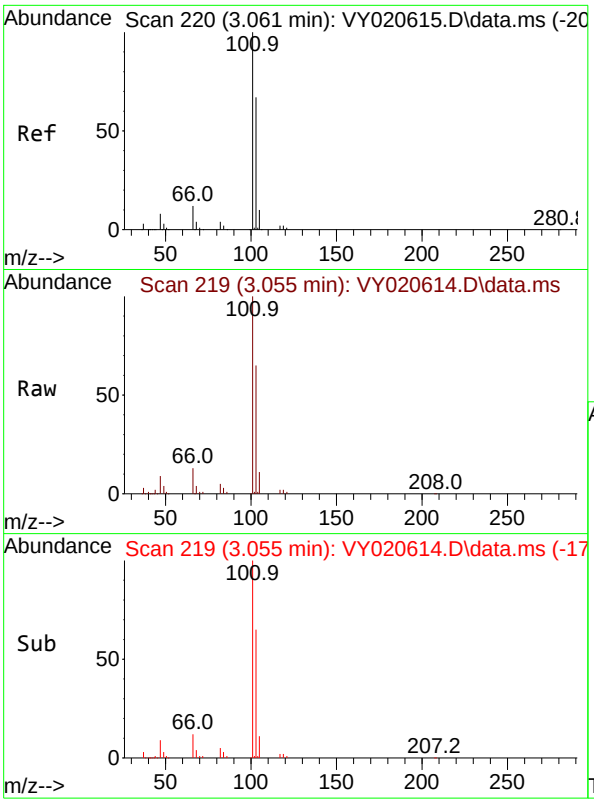




#6
Chloroethane
Concen: 21.539 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 64 Resp: 20312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.2 | 25.8 | 38.6 |



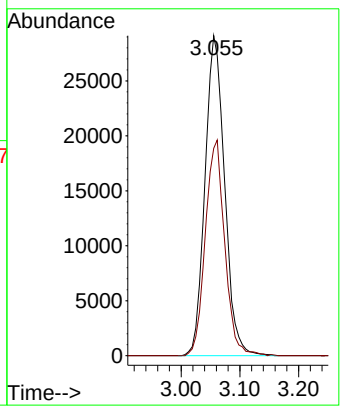


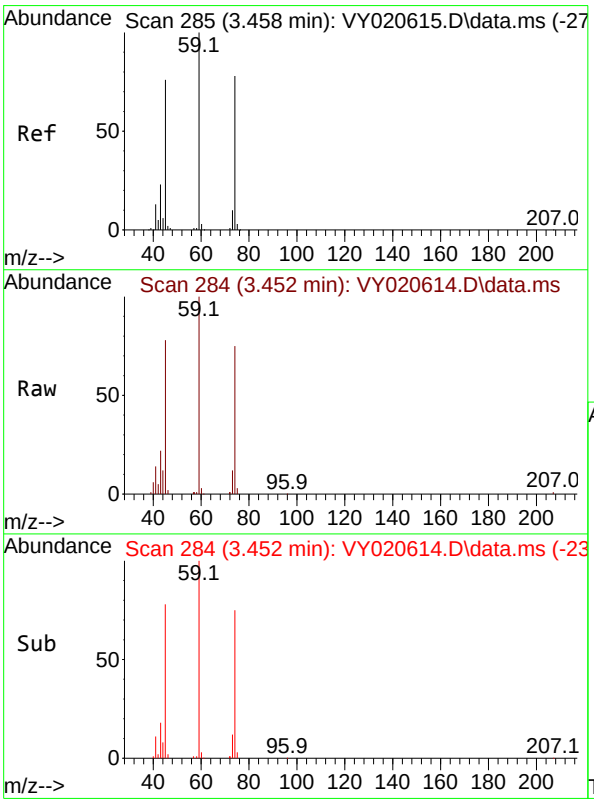

#7
Trichlorofluoromethane
Concen: 21.169 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 67594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.8 | 53.4 | 80.0 |

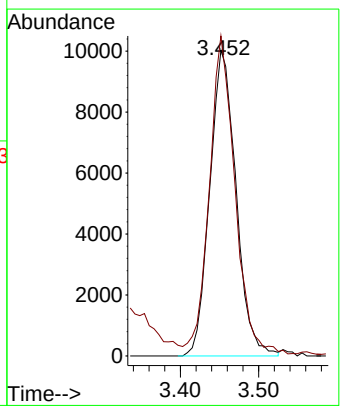


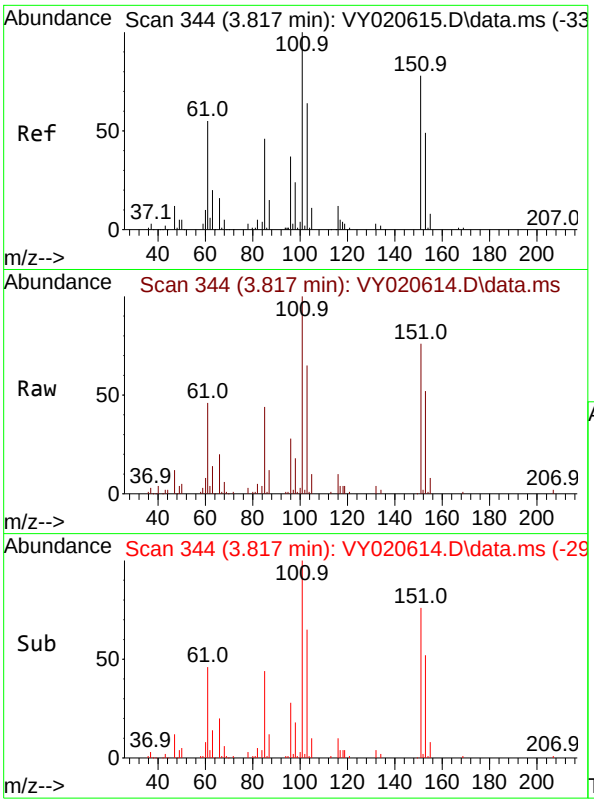




#8
Diethyl Ether
Concen: 20.878 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 74 Resp: 23380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 101.5 | 49.0 | 147.2 |



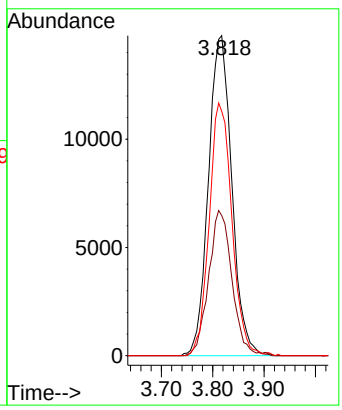


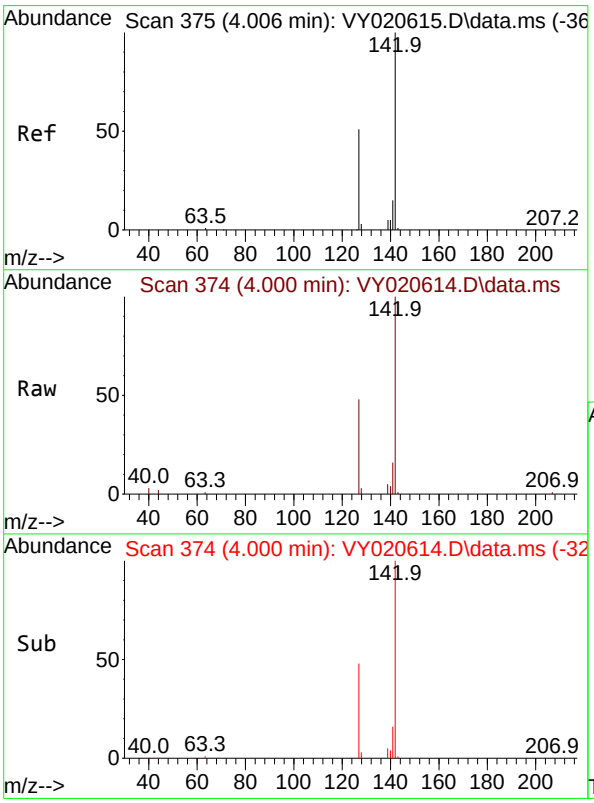

#9
1,1,2-Trichlorotrifluoroethane
Concen: 20.403 ug/l
RT: 3.817 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 46696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.1 | 36.6 | 54.8 |
| 151 | 76.9 | 61.5 | 92.3 |

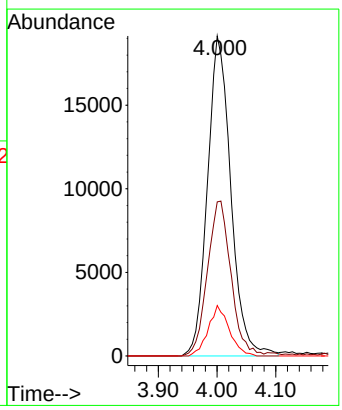


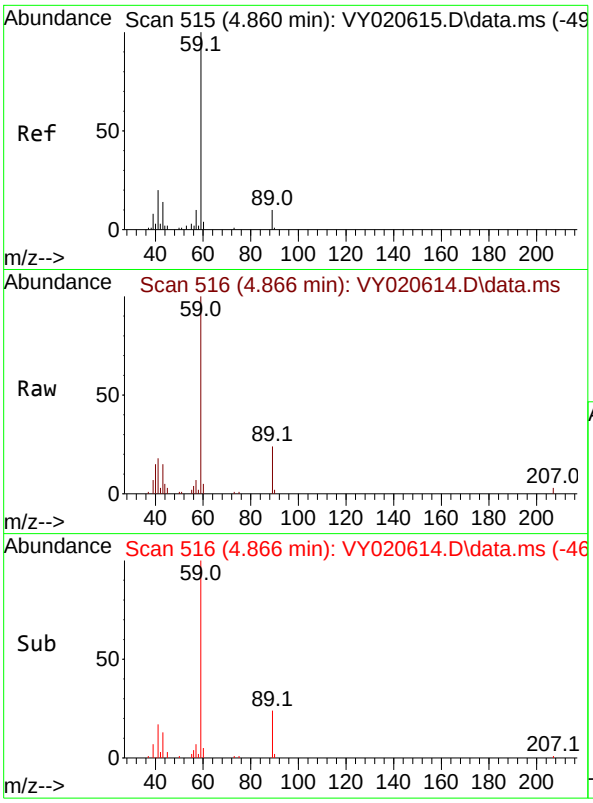




#10
Methyl Iodide
Concen: 20.758 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:142 Resp: 52895

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 48.7 | 40.6 | 61.0 |
| 141 | 14.2 | 11.7 | 17.5 |



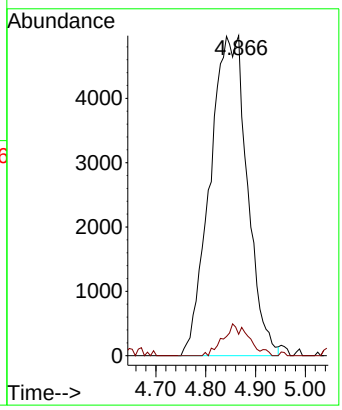


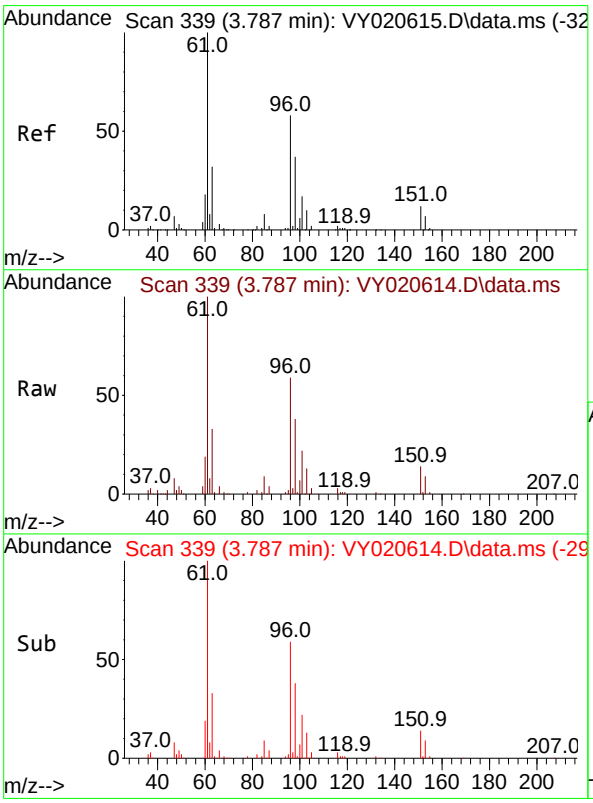

#11
Tert butyl alcohol
Concen: 106.274 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 59 Resp: 25807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 6.5 | 7.4 | 11.0# |

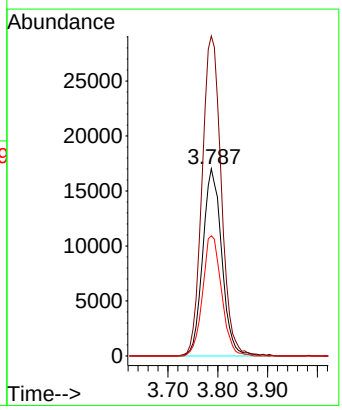


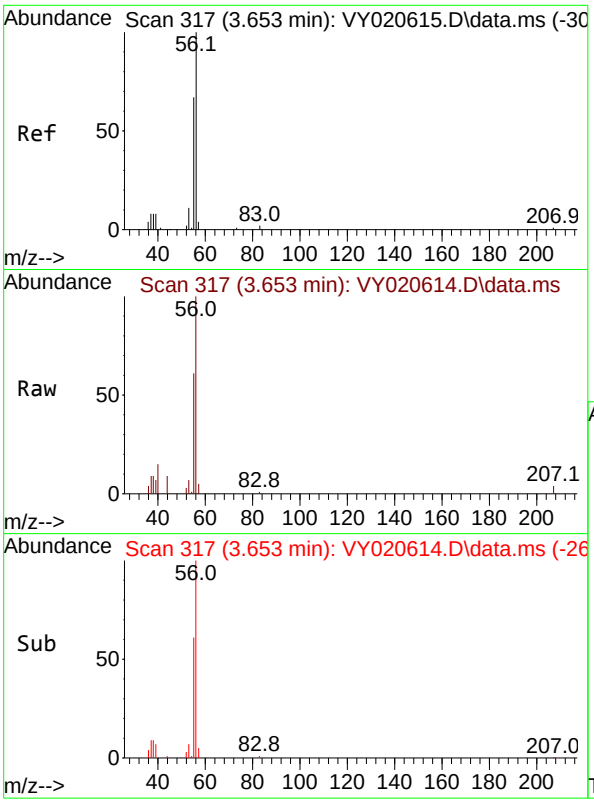




#12
1,1-Dichloroethene
Concen: 20.319 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 96 Resp: 45124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.9 | 136.9 | 205.3 |
| 98 | 64.1 | 50.2 | 75.4 |



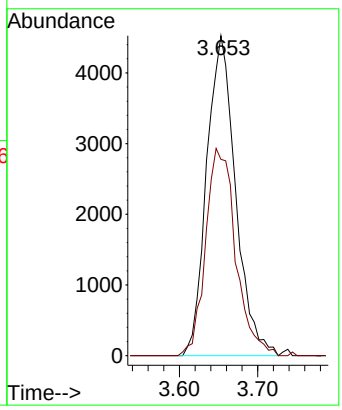


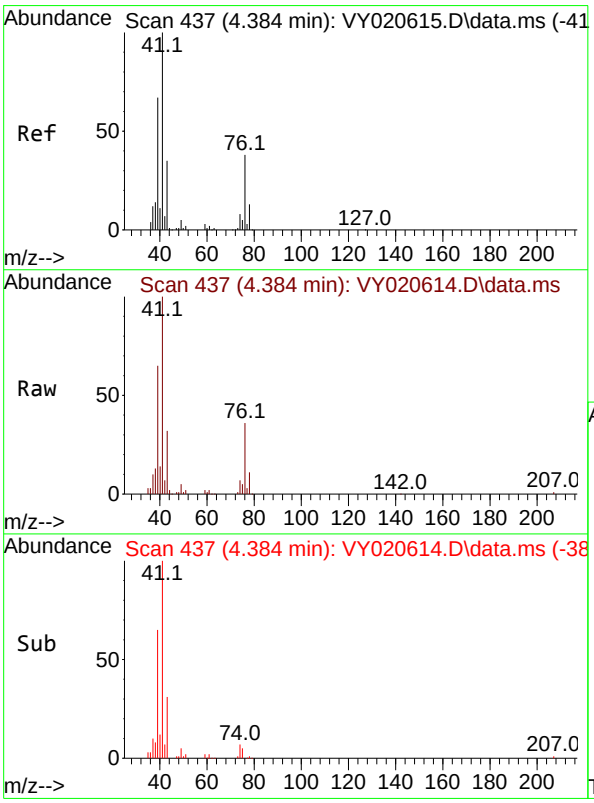

#13
Acrolein
Concen: 126.557 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 11611

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 67.2 | 57.5 | 86.3 |

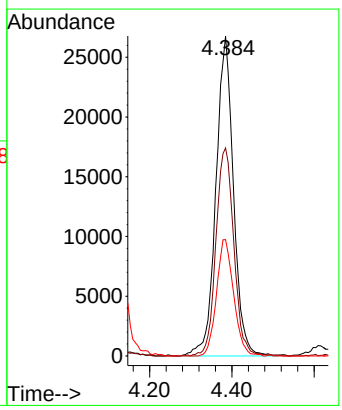


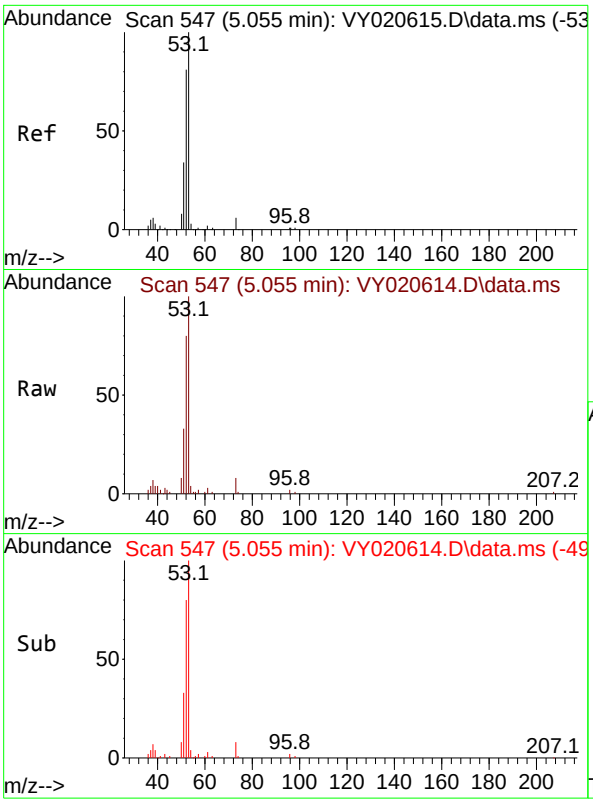




#14
Allyl chloride
Concen: 20.368 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 41 Resp: 79257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.5 | 53.0 | 79.4 |
| 76 | 35.6 | 29.5 | 44.3 |



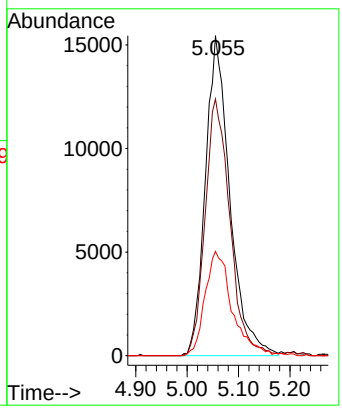


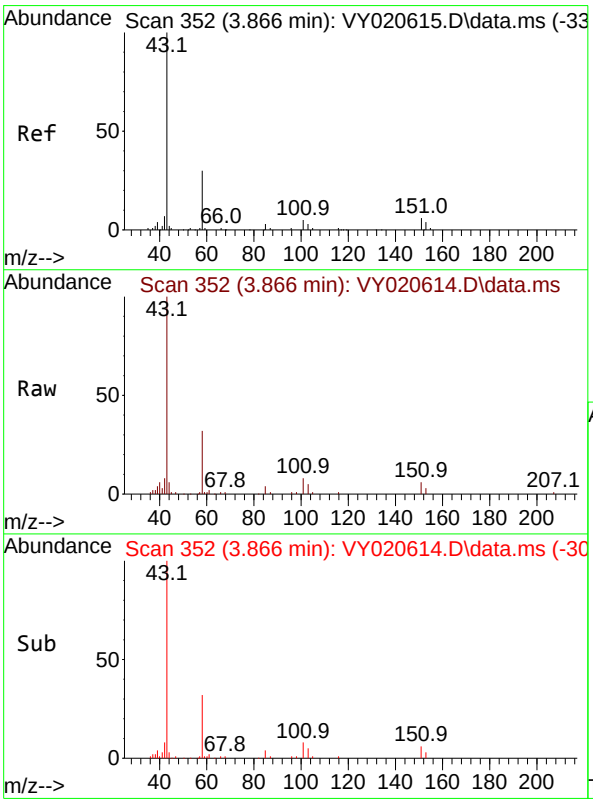

#15
Acrylonitrile
Concen: 95.416 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 53 Resp: 51118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.2 | 64.5 | 96.7 |
| 51 | 36.1 | 29.4 | 44.0 |

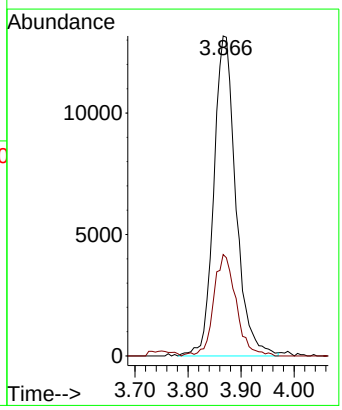


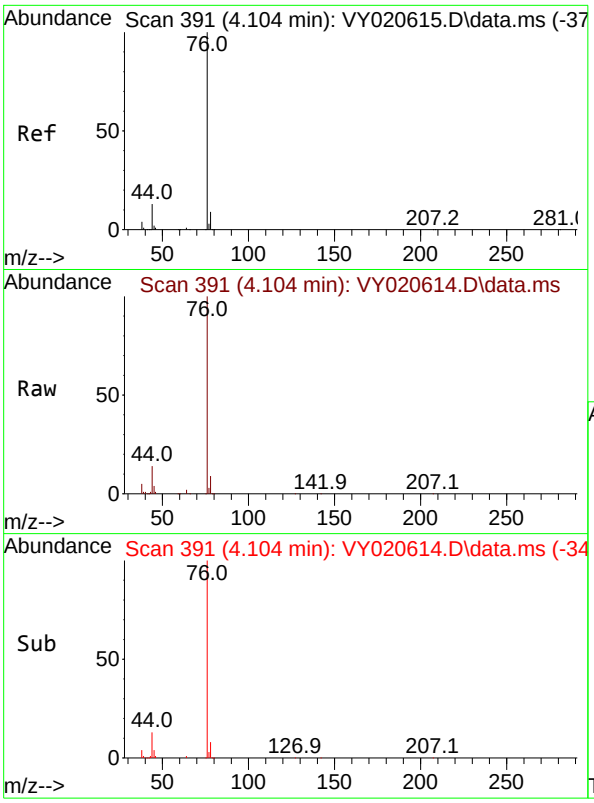




#16
Acetone
Concen: 94.781 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 38075

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.7 | 25.0 | 37.6 |



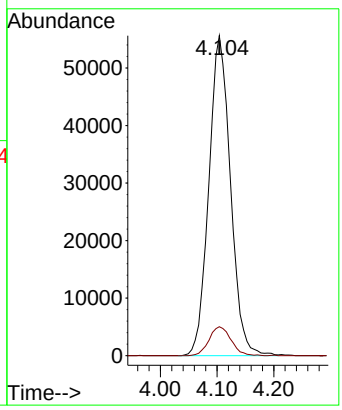


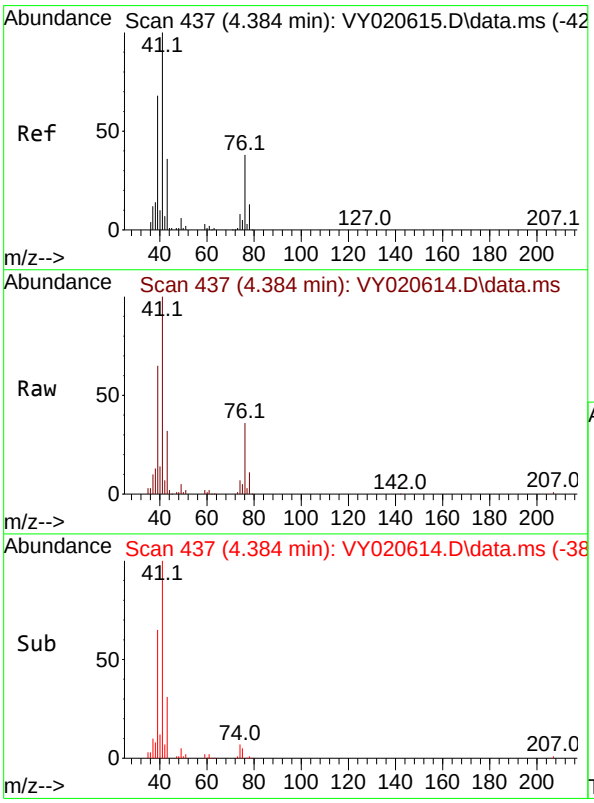

#17
Carbon Disulfide
Concen: 20.416 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 147576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.2 | 10.8 |

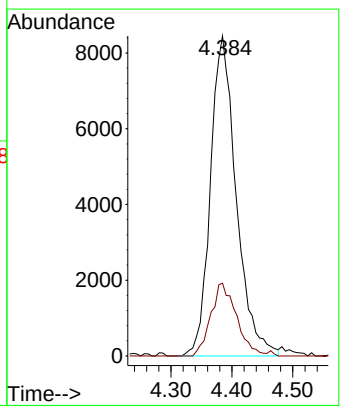


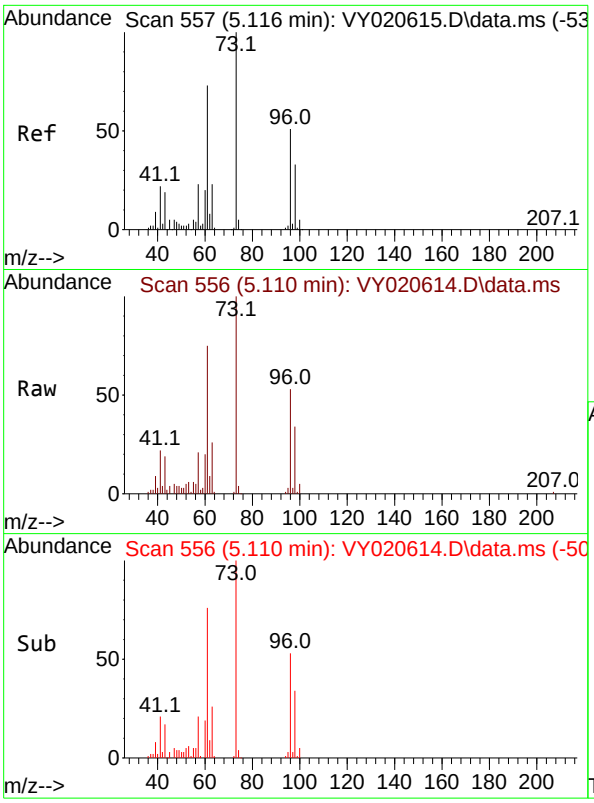




#18
Methyl Acetate
Concen: 18.851 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 24886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.7 | 19.2 | 28.8 |



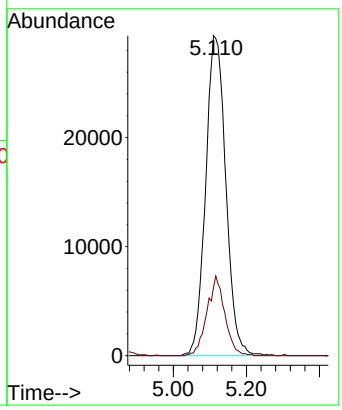


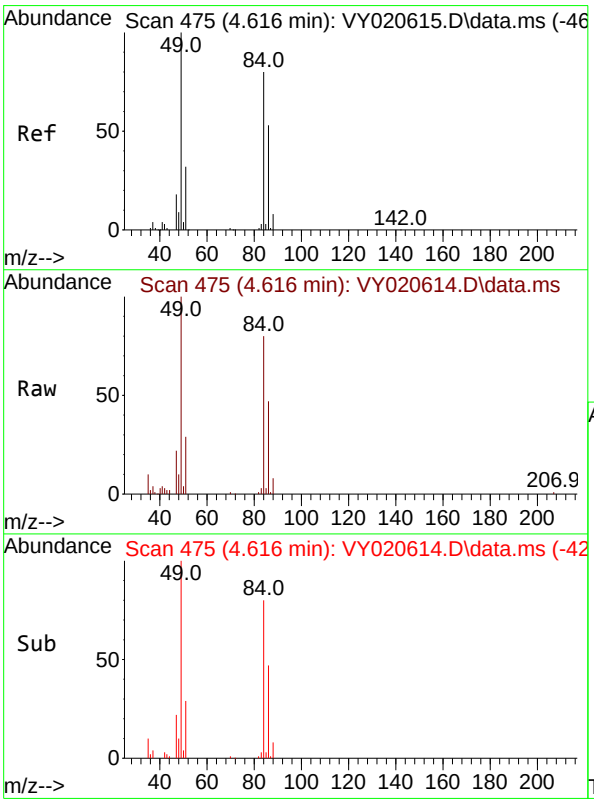

#19
Methyl tert-butyl Ether
Concen: 19.582 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 73 Resp: 112241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 18.5 | 27.7 |

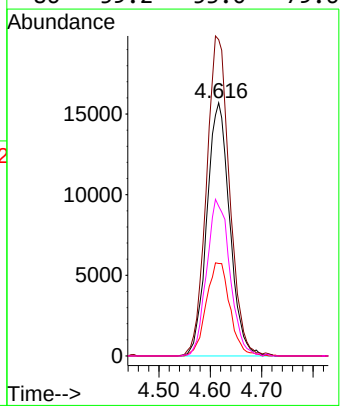


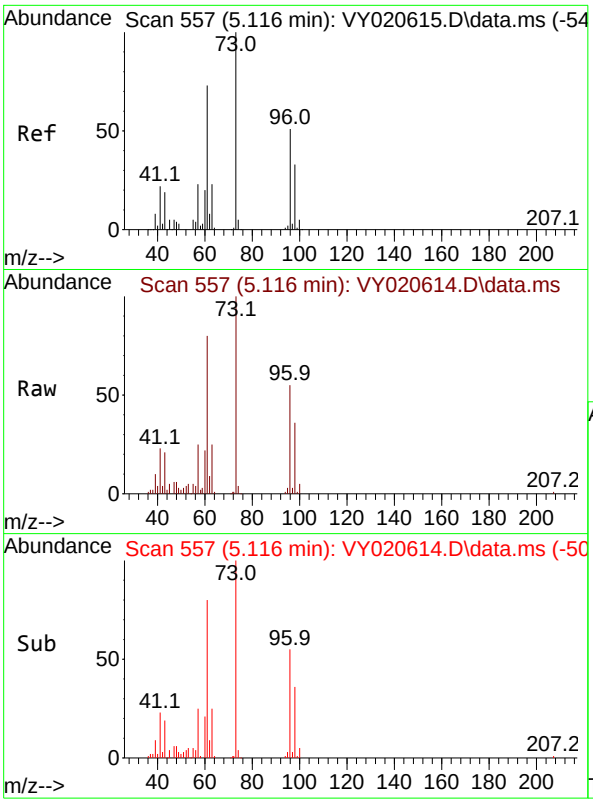




#20
Methylene Chloride
Concen: 20.076 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 84 Resp: 48431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.0 | 100.7 | 151.1 |
| 51 | 36.5 | 32.2 | 48.2 |
| 86 | 59.2 | 53.0 | 79.6 |



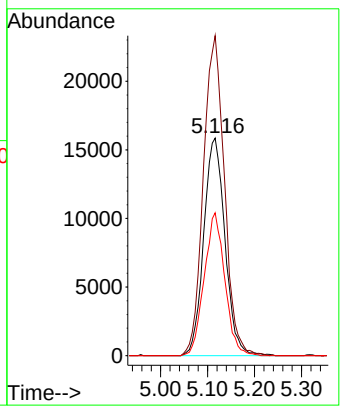


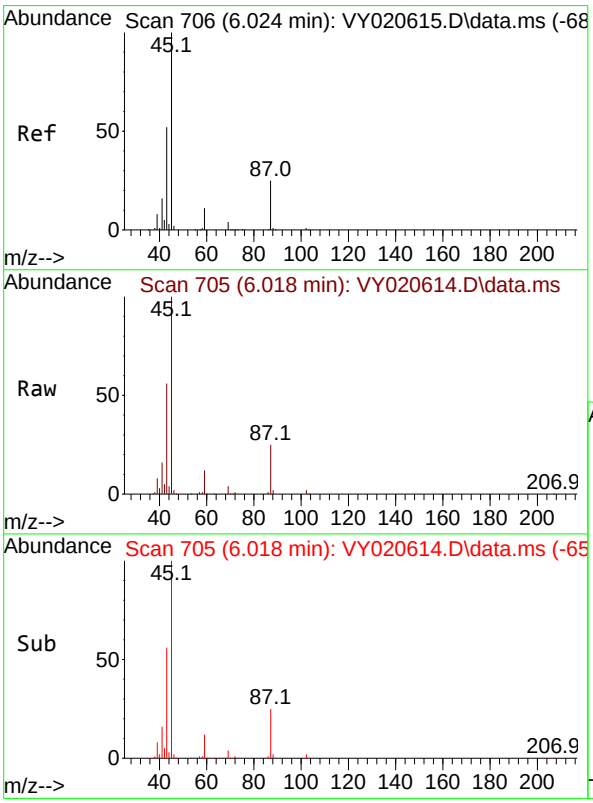

#21
trans-1,2-Dichloroethene
Concen: 19.997 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 49814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.0 | 113.7 | 170.5 |
| 98 | 65.6 | 51.7 | 77.5 |

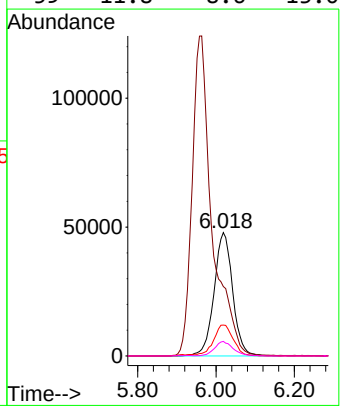


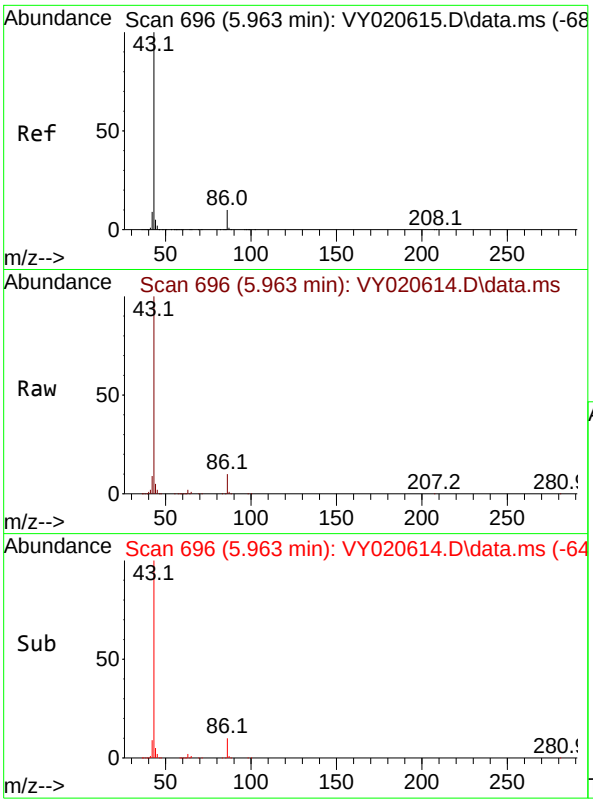




#22
Diisopropyl ether
Concen: 20.055 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 45 Resp: 158410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 55.9 | 42.6 | 64.0 |
| 87 | 25.1 | 20.6 | 31.0 |
| 59 | 11.8 | 8.6 | 13.0 |



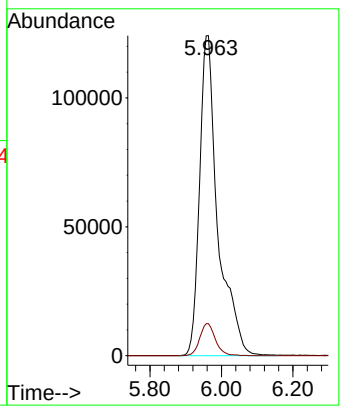


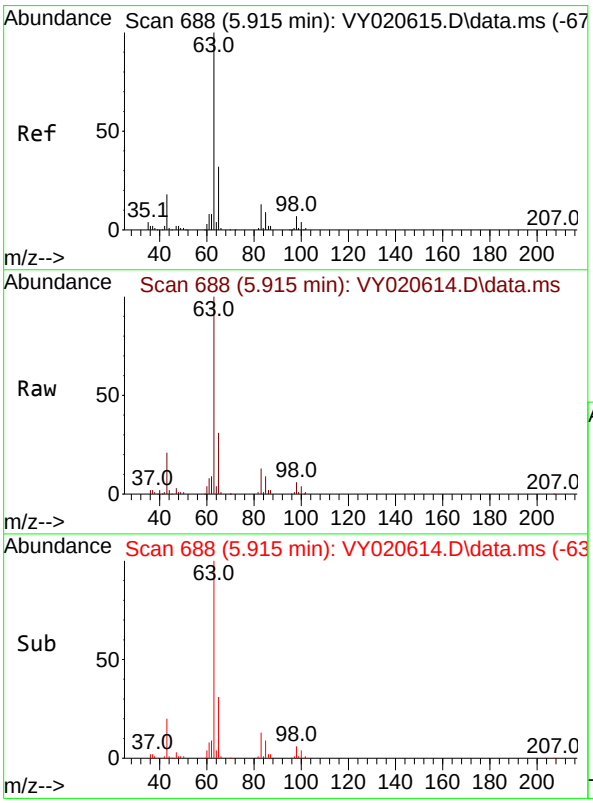

#23
Vinyl Acetate
Concen: 98.587 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 441039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.0 | 8.1 | 12.1 |

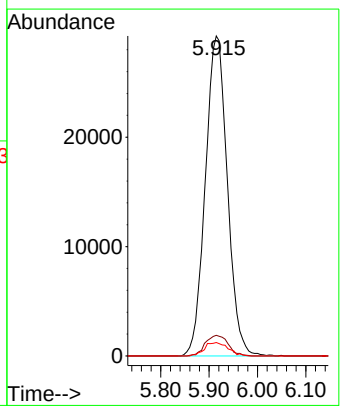


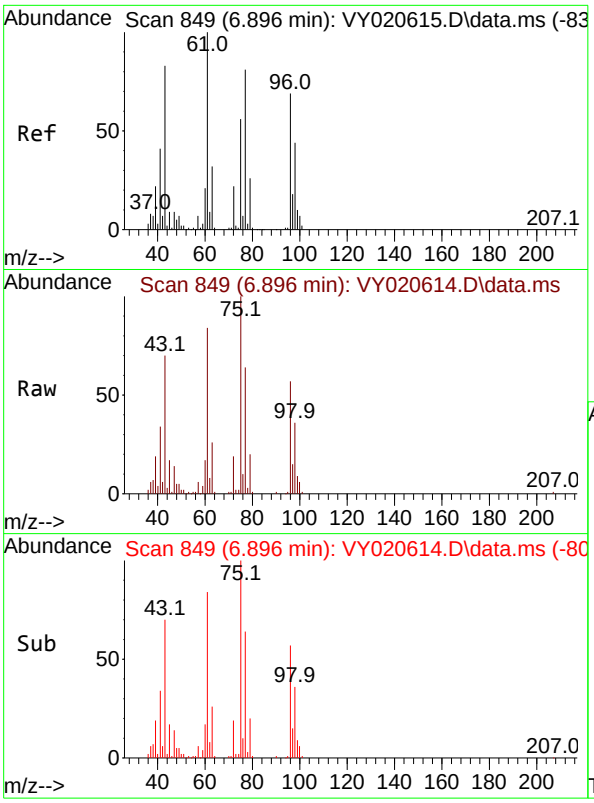




#24
1,1-Dichloroethane
Concen: 20.011 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 63 Resp: 92599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.5 | 3.4 | 10.1 |
| 100 | 4.2 | 2.1 | 6.5 |



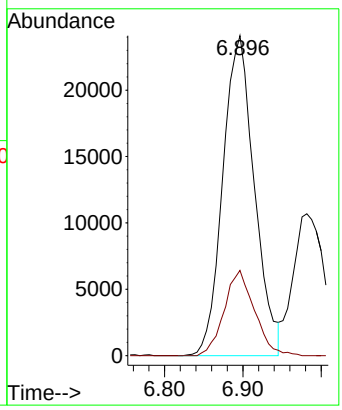


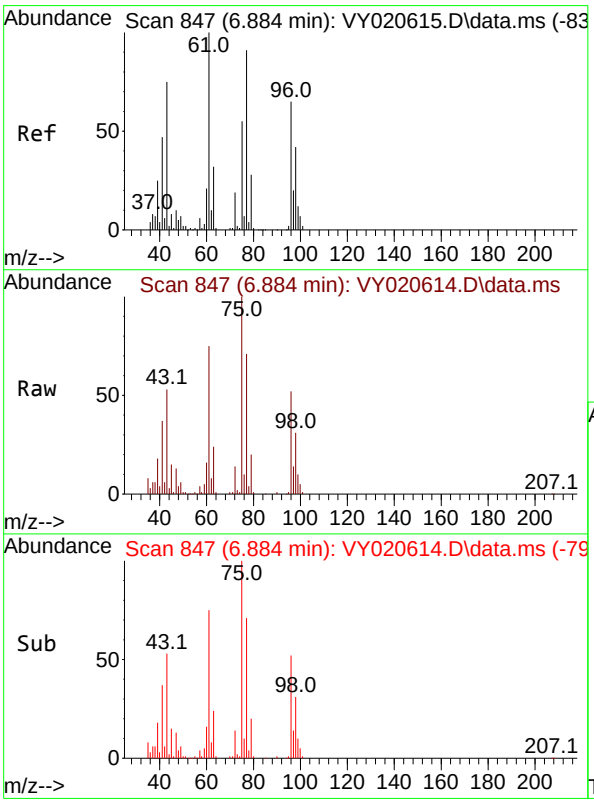

#25
2-Butanone
Concen: 93.608 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 67498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.7 | 20.6 | 31.0 |

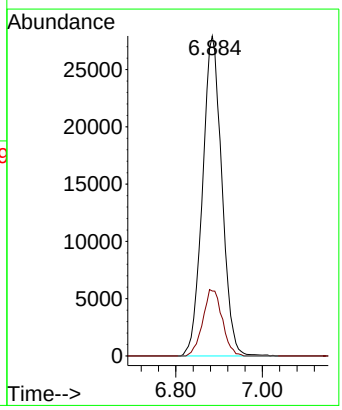


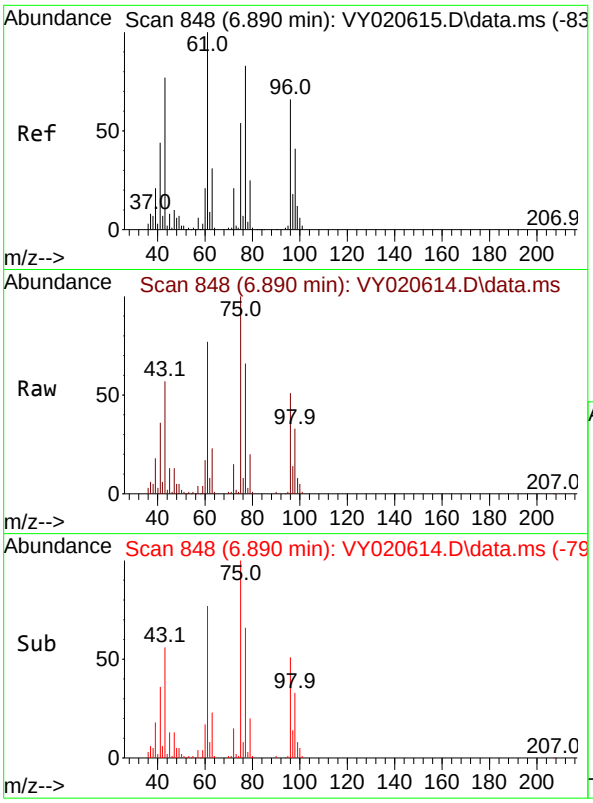




#26
2,2-Dichloropropane
Concen: 19.750 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 77 Resp: 86393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 20.9 | 10.9 | 32.6 |



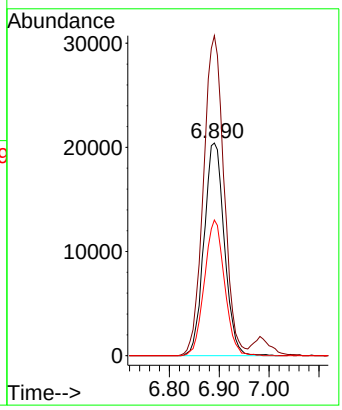


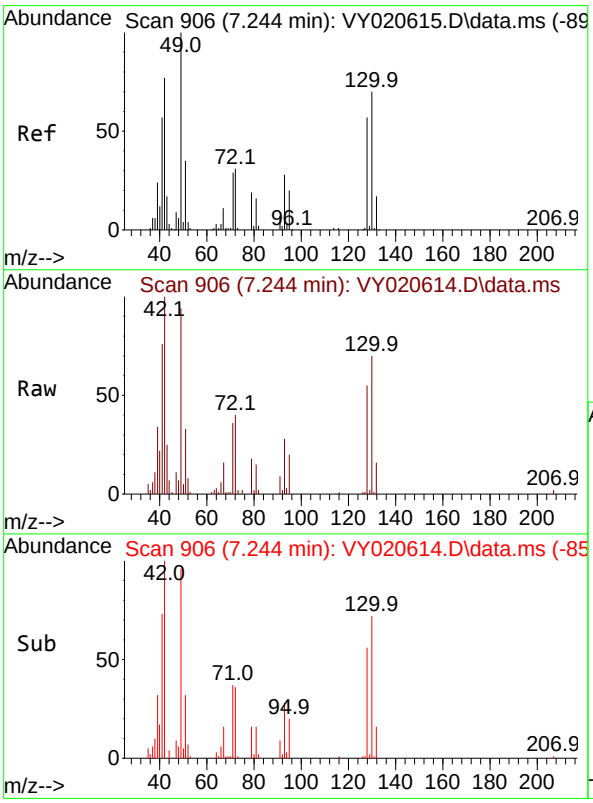

#27
cis-1,2-Dichloroethene
Concen: 20.149 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 57749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 152.3 | 0.0 | 306.2 |
| 98 | 63.2 | 0.0 | 127.2 |

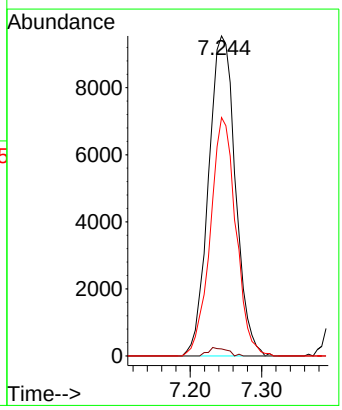


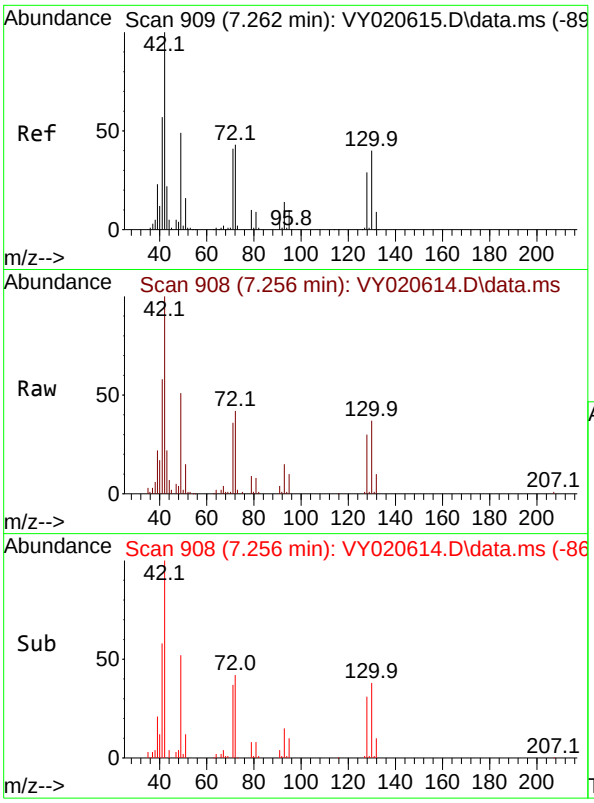




#28
Bromochloromethane
Concen: 16.009 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 49 Resp: 24987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.8 |
| 130 | 70.9 | 58.3 | 87.5 |



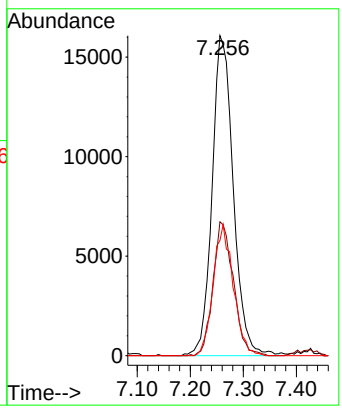


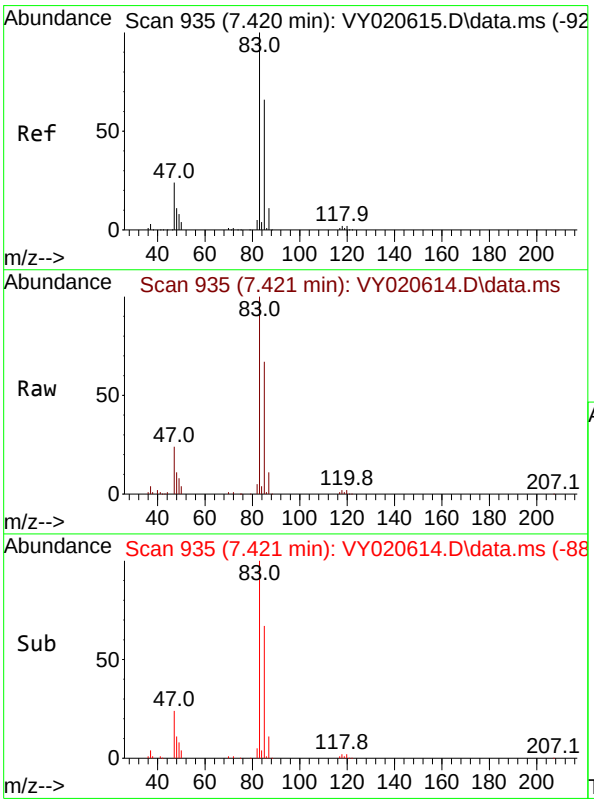

#29
Tetrahydrofuran
Concen: 98.059 ug/l
RT: 7.256 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 42 Resp: 44636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 40.3 | 34.0 | 51.0 |
| 71 | 38.9 | 31.6 | 47.4 |

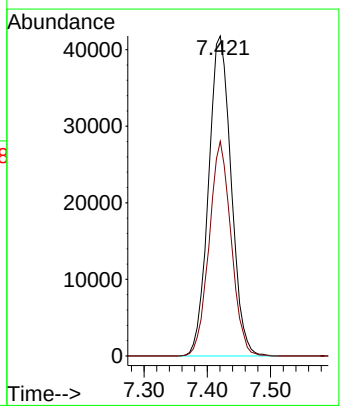


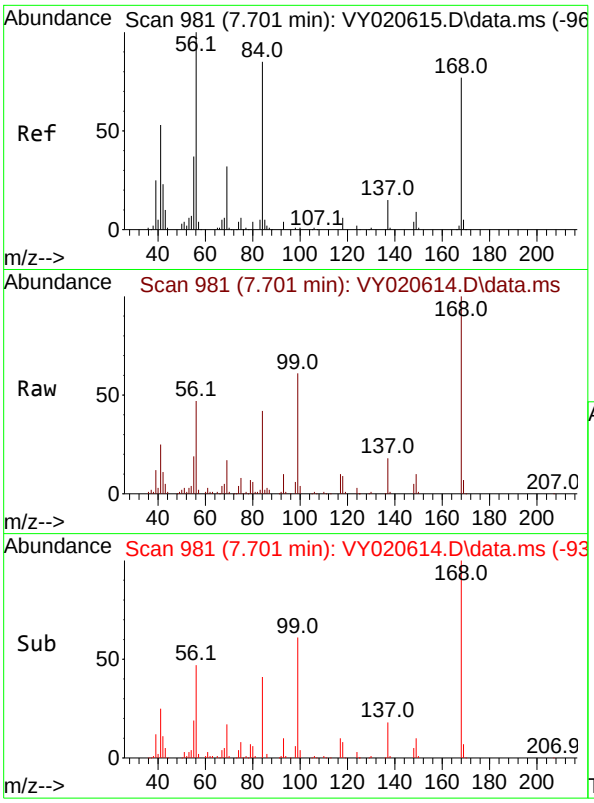




#30
Chloroform
Concen: 19.065 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 83 Resp: 103806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.1 | 52.7 | 79.1 |



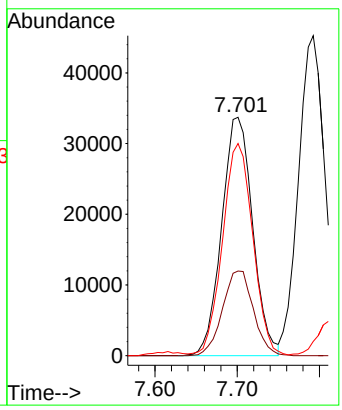


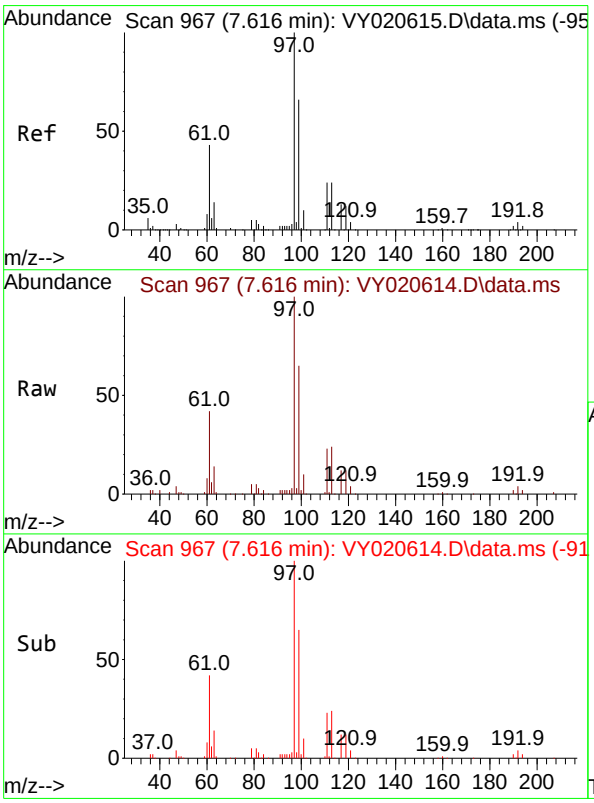

#31
Cyclohexane
Concen: 19.966 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 88339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.5 | 25.4 | 38.0 |
| 84 | 87.8 | 68.3 | 102.5 |

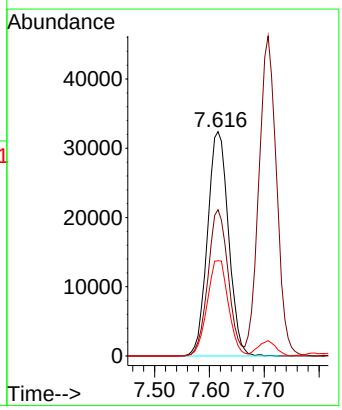


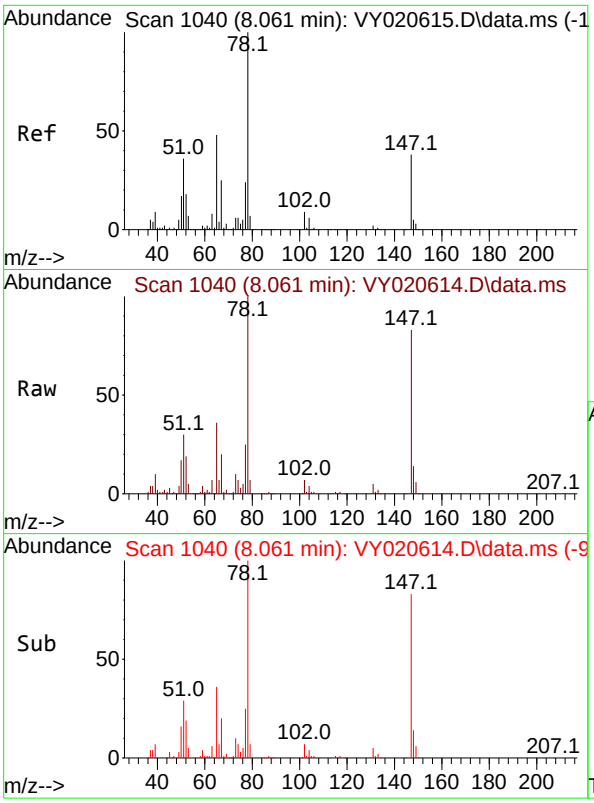




#32
1,1,1-Trichloroethane
Concen: 20.249 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 97 Resp: 86081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.3 | 51.6 | 77.4 |
| 61 | 43.0 | 34.7 | 52.1 |



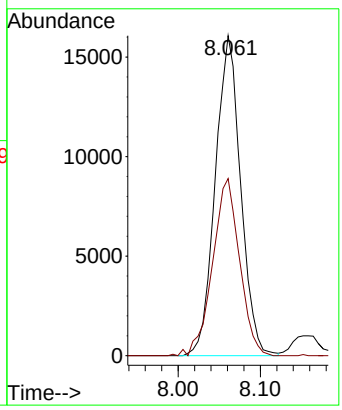


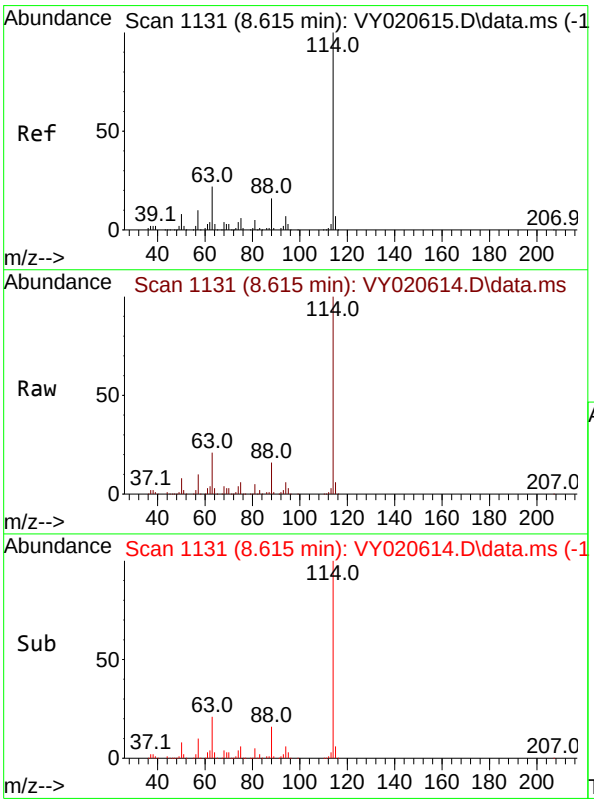

#33
1,2-Dichloroethane-d4
Concen: 17.777 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 65 Resp: 34492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 58.8 | 0.0 | 108.0 |

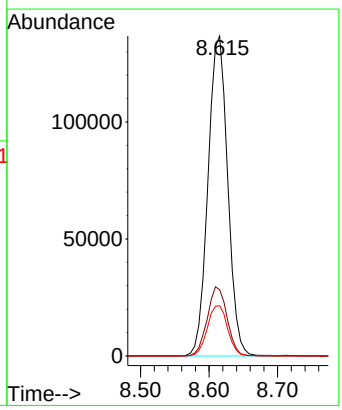


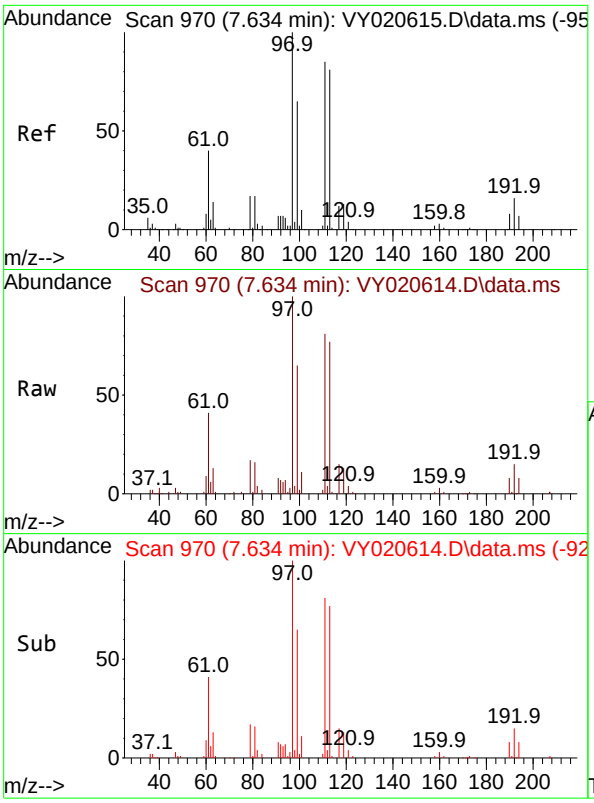




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:114 Resp: 272612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 44.0 |
| 88 | 15.7 | 0.0 | 32.8 |



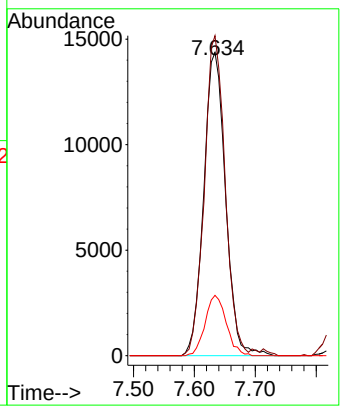


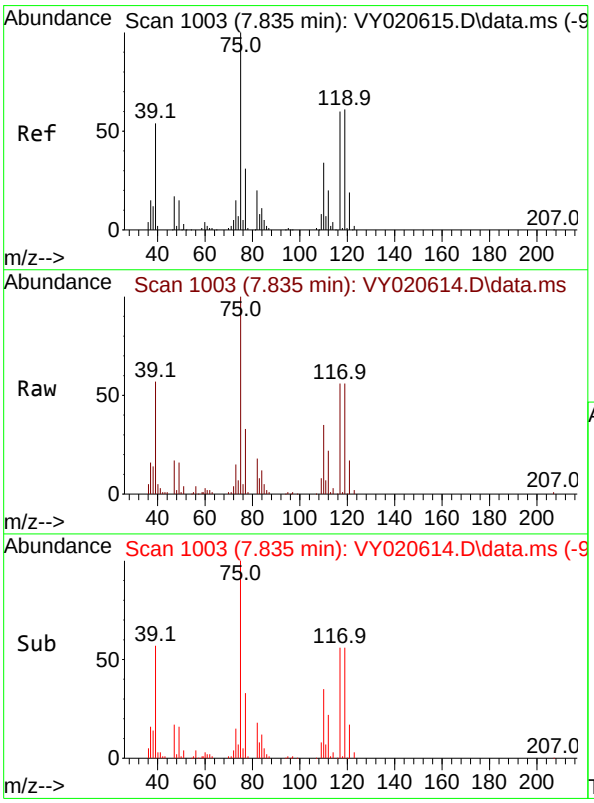

#35
Dibromofluoromethane
Concen: 18.603 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:113 Resp: 35742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 100.5 | 82.9 | 124.3 |
| 192 | 19.3 | 15.7 | 23.5 |

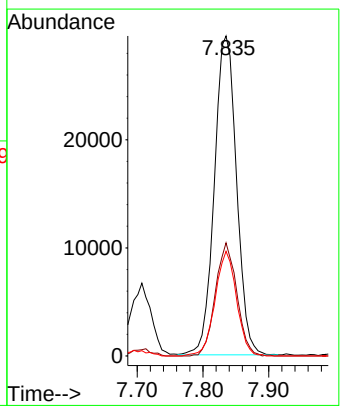


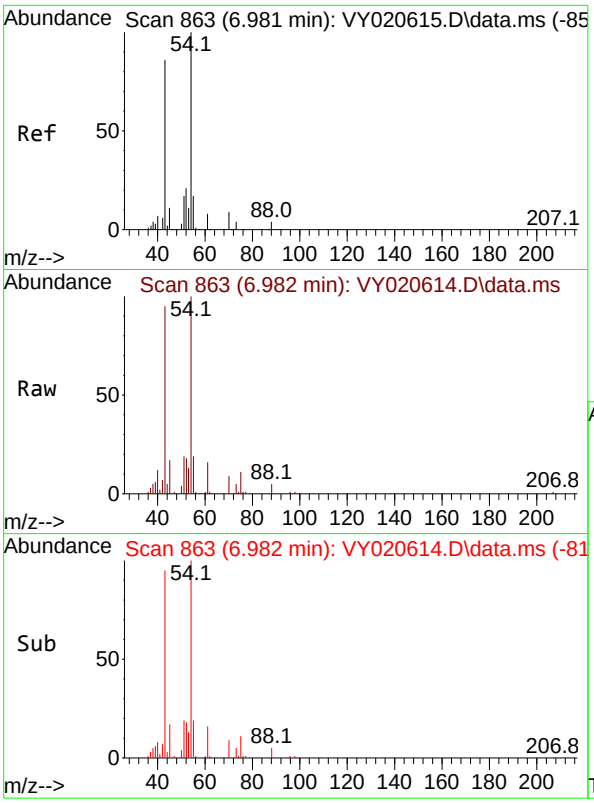




#36
1,1-Dichloropropene
Concen: 19.828 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 75 Resp: 69466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.2 | 16.8 | 50.4 |
| 77 | 31.8 | 25.0 | 37.6 |



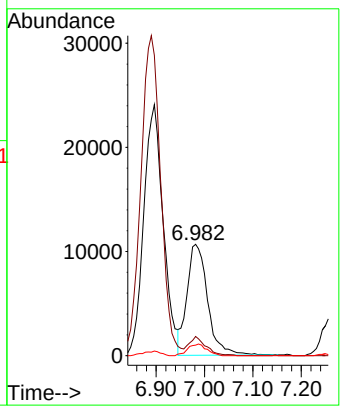


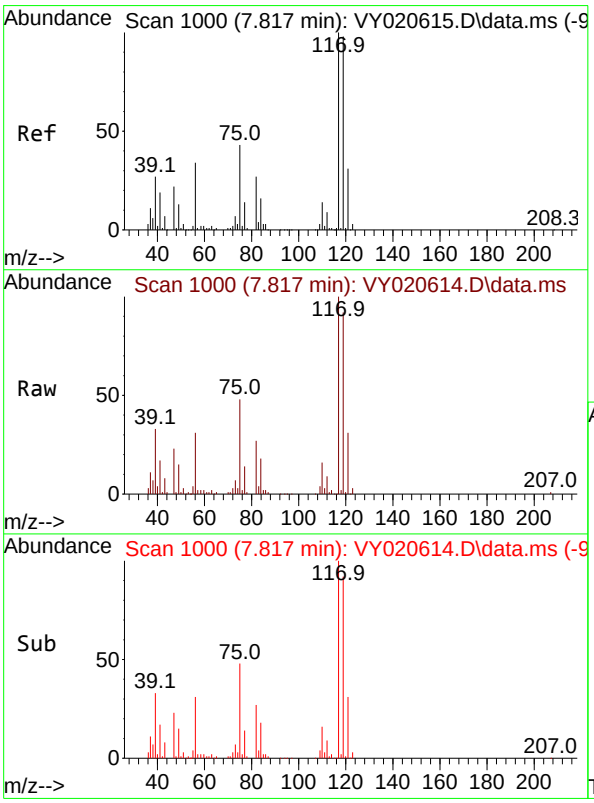

#37
Ethyl Acetate
Concen: 19.166 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 31585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.1 | 11.0 | 16.4 |
| 70 | 9.6 | 7.9 | 11.9 |

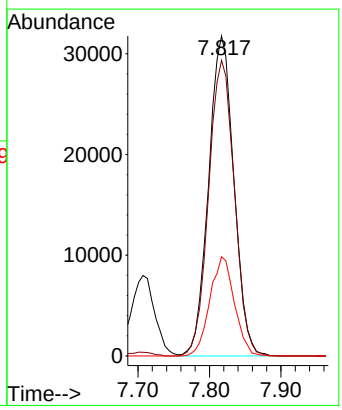


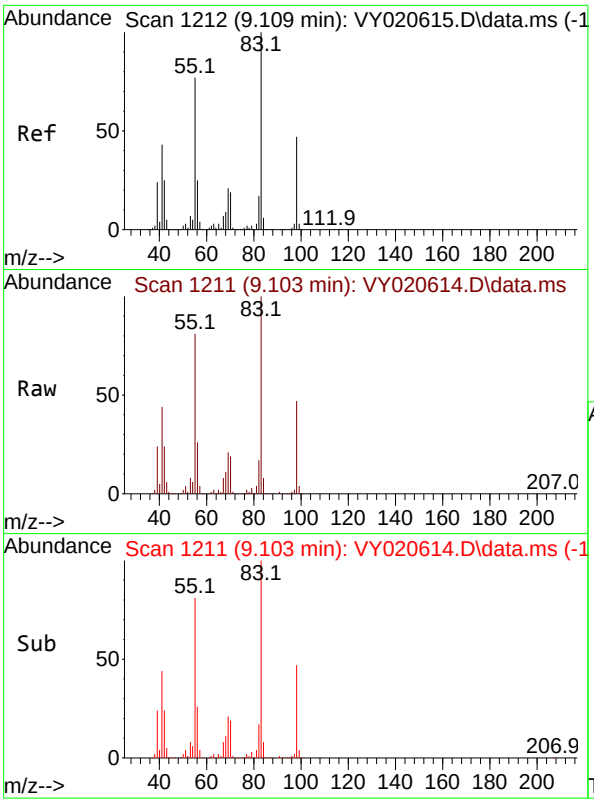




#38
Carbon Tetrachloride
Concen: 20.109 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:117 Resp: 77945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.4 | 78.3 | 117.5 |
| 121 | 31.0 | 25.1 | 37.7 |



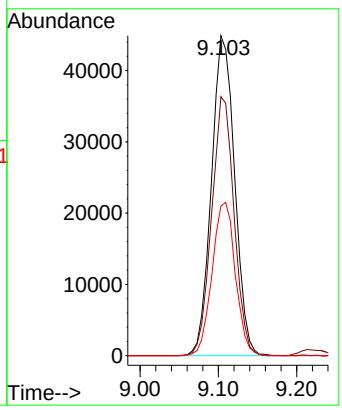


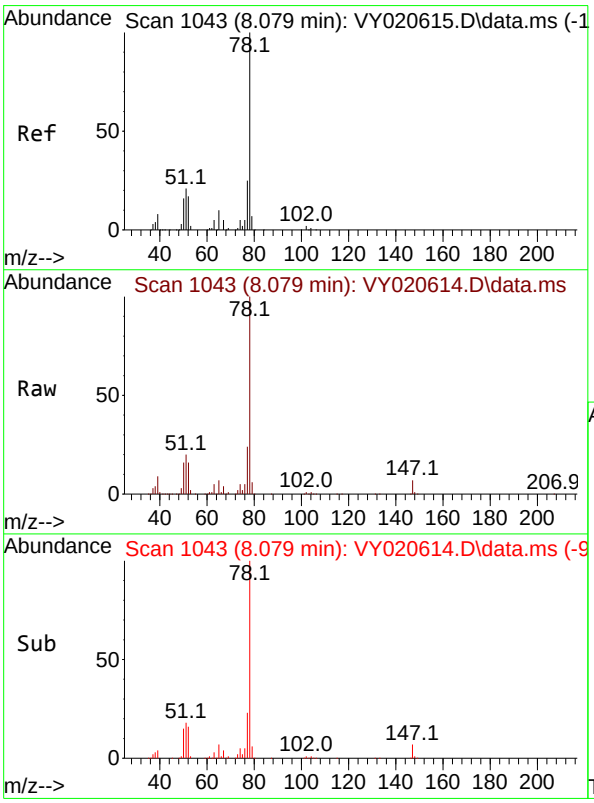

#39
Methylcyclohexane
Concen: 20.249 ug/l
RT: 9.103 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 92458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 81.0 | 61.4 | 92.0 |
| 98 | 46.8 | 37.3 | 55.9 |

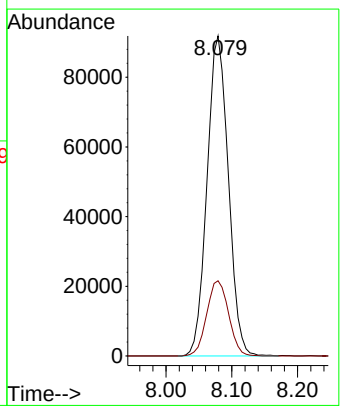


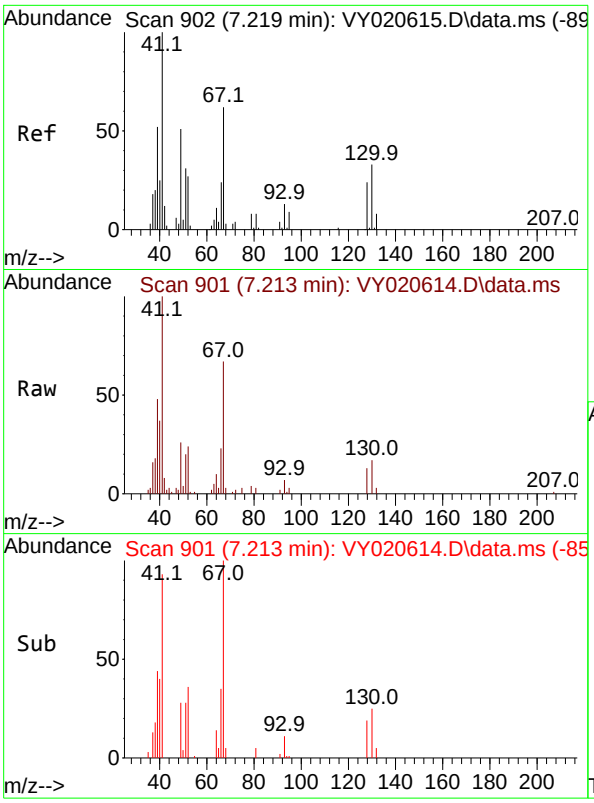




#40
Benzene
Concen: 20.176 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 78 Resp: 207185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 20.1 | 30.1 |



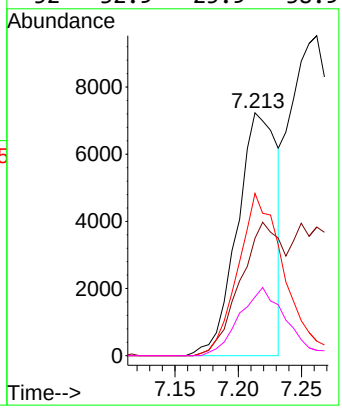


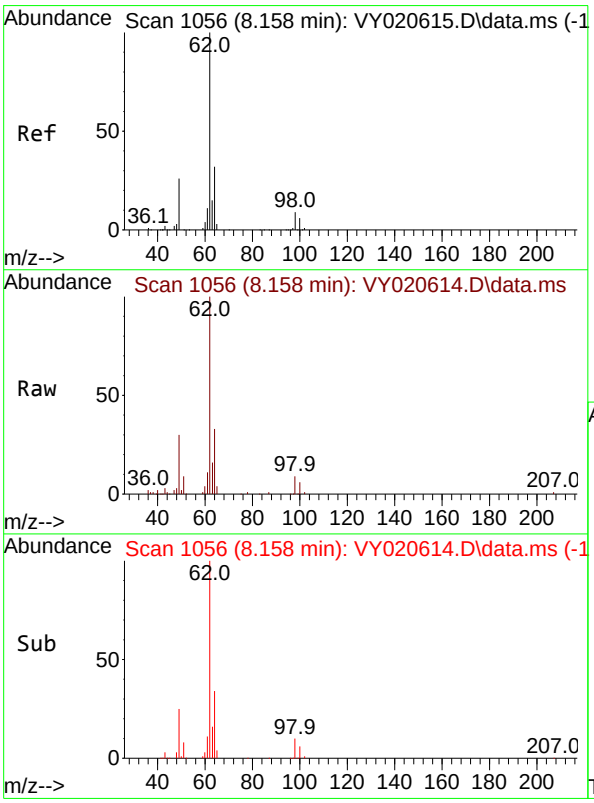

#41
Methacrylonitrile
Concen: 18.232 ug/l
RT: 7.213 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 41 Resp: 15884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.0 | 53.6 | 80.4 |
| 67 | 77.5 | 62.0 | 93.0 |
| 52 | 32.9 | 25.9 | 38.9 |

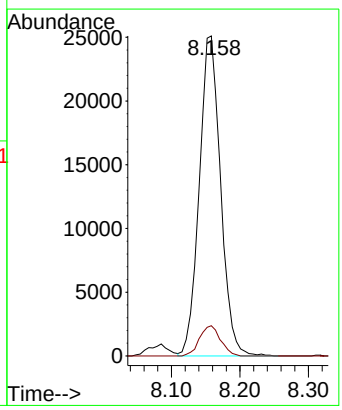


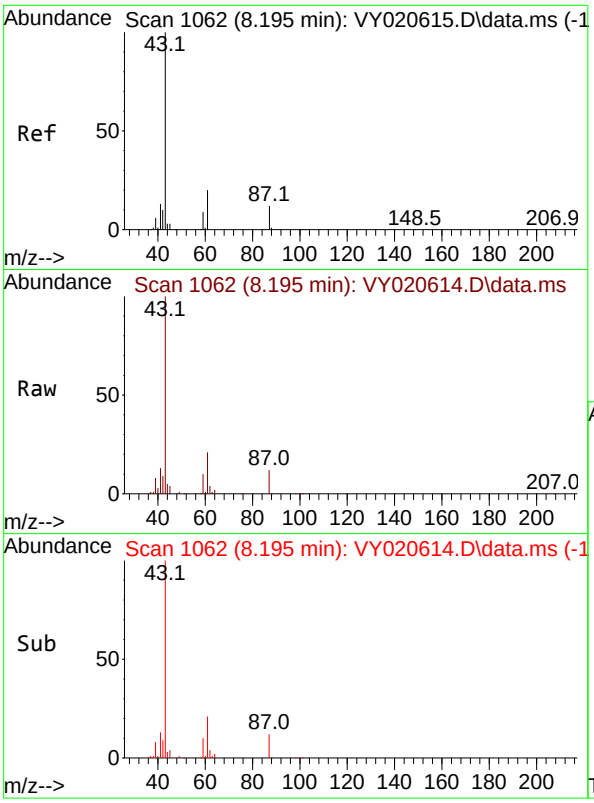




#42
1,2-Dichloroethane
Concen: 19.983 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 62 Resp: 54425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.3 | 0.0 | 18.0 |



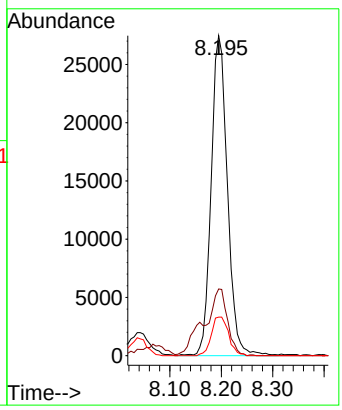


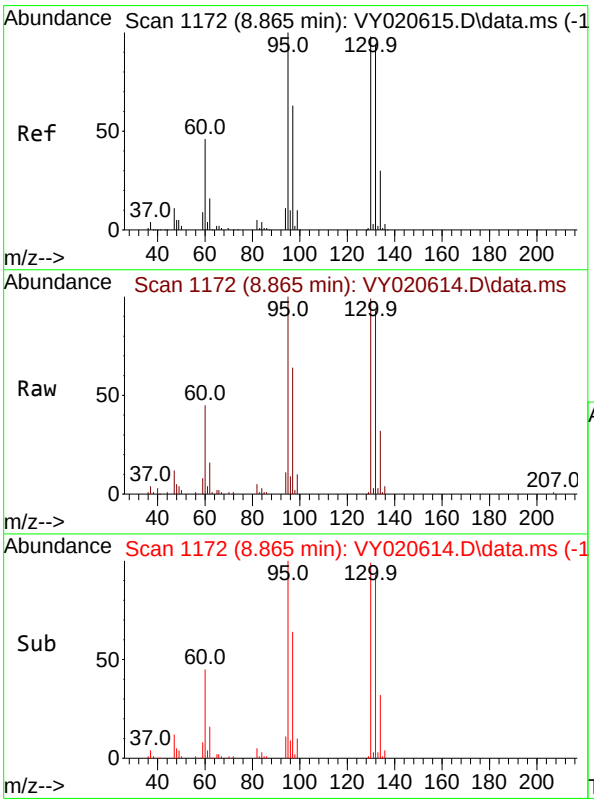

#43
Isopropyl Acetate
Concen: 19.375 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 60446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.4 | 23.8 | 35.6# |
| 87 | 12.8 | 10.2 | 15.4 |

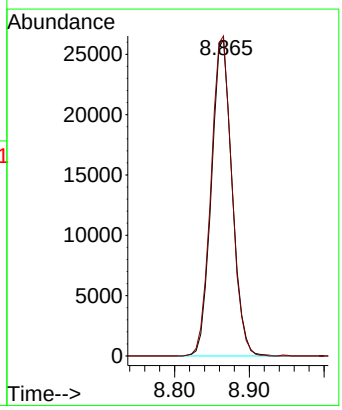


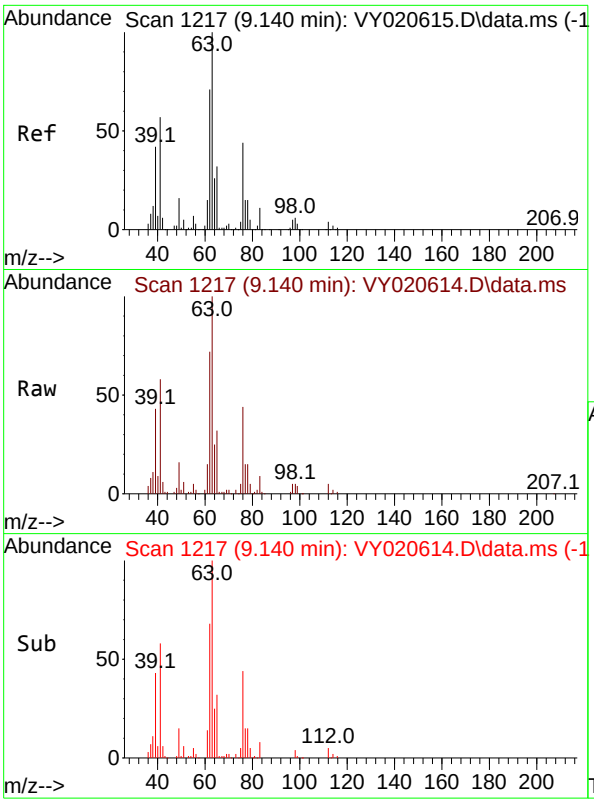




#44
Trichloroethene
Concen: 19.952 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:130 Resp: 50346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.2 | 0.0 | 203.2 |



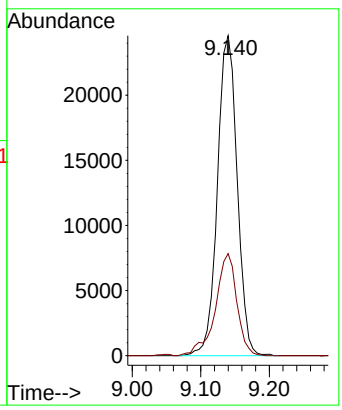


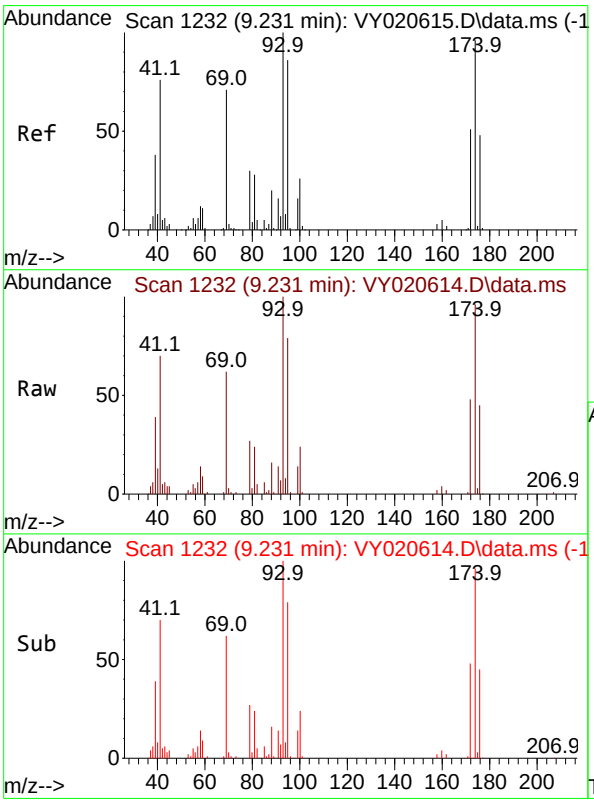

#45
1,2-Dichloropropane
Concen: 20.466 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 63 Resp: 49119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.9 | 25.9 | 38.9 |

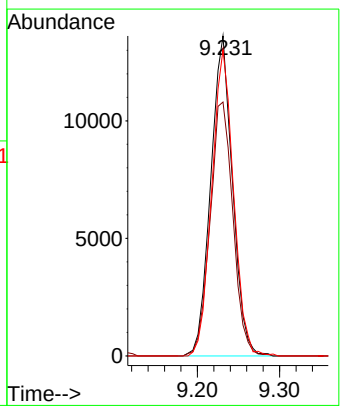


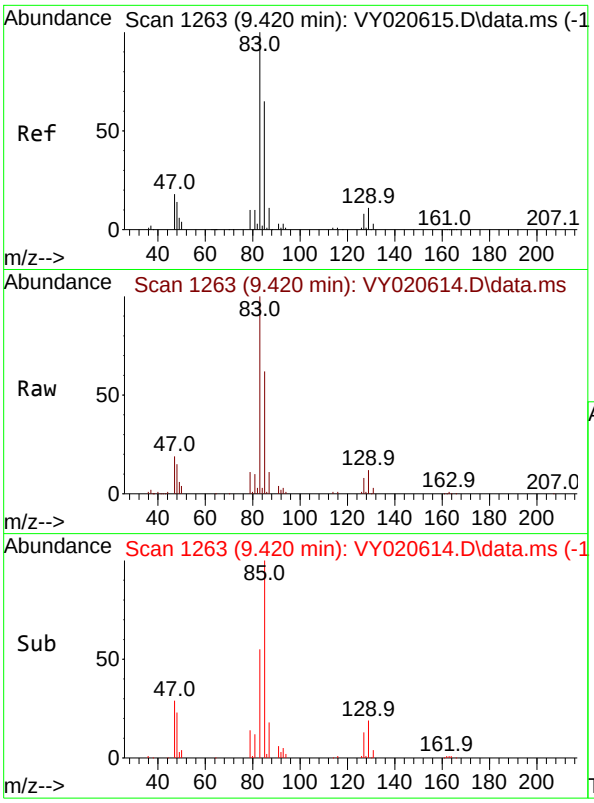




#46
Dibromomethane
Concen: 19.753 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 93 Resp: 25054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.1 | 66.7 | 100.1 |
| 174 | 95.6 | 77.8 | 116.6 |



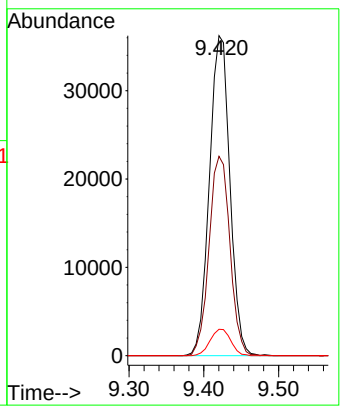


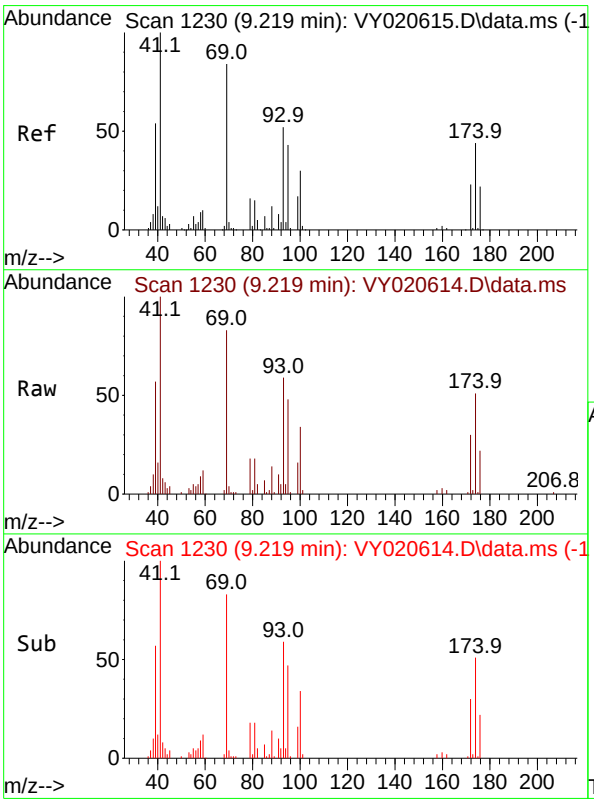

#47
Bromodichloromethane
Concen: 20.125 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 68951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.3 | 52.1 | 78.1 |
| 127 | 8.3 | 6.7 | 10.1 |

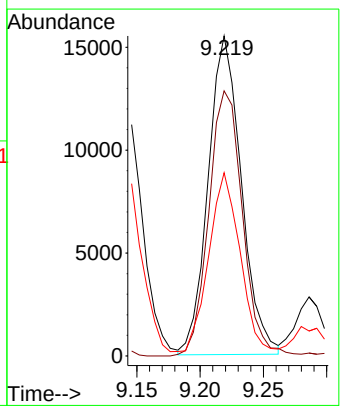


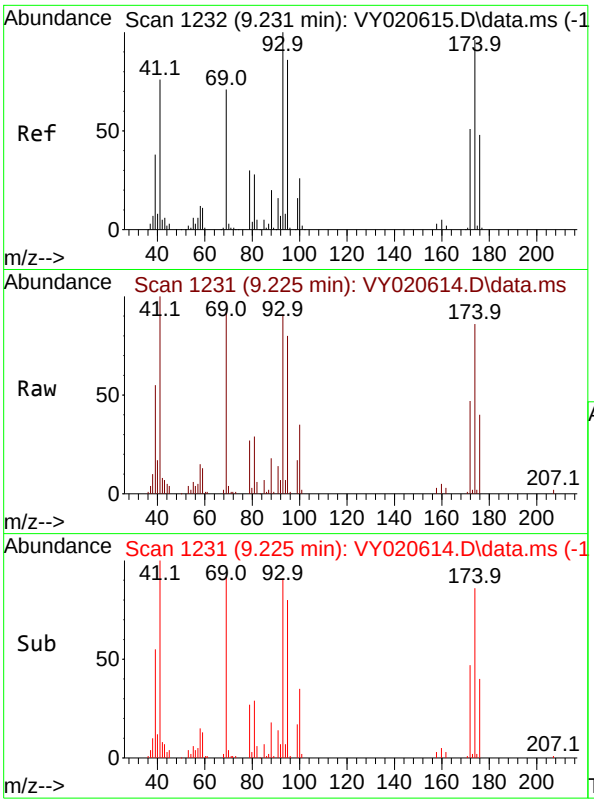




#48
Methyl methacrylate
Concen: 19.051 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 41 Resp: 28256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.4 | 67.2 | 100.8 |
| 39 | 53.2 | 42.2 | 63.4 |



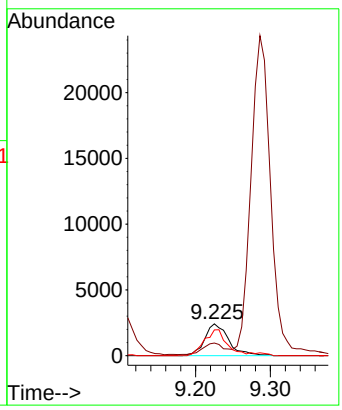


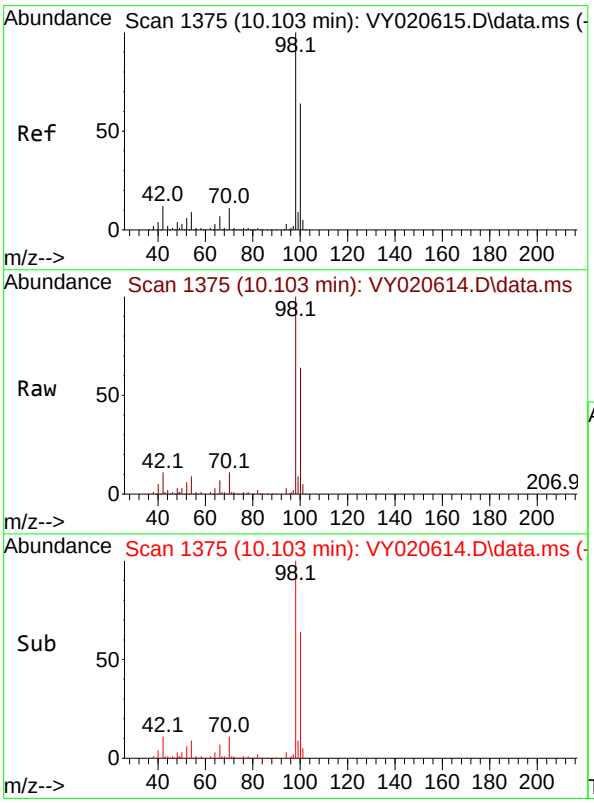

#49
1,4-Dioxane
Concen: 371.167 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 88 Resp: 5399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.4 | 27.6 | 41.4 |
| 58 | 81.6 | 61.7 | 92.5 |

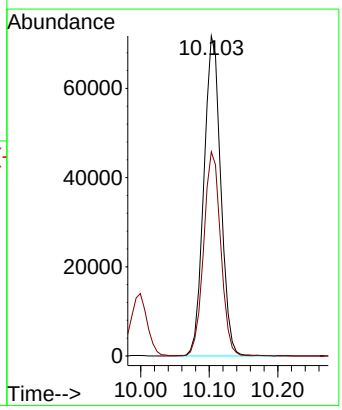


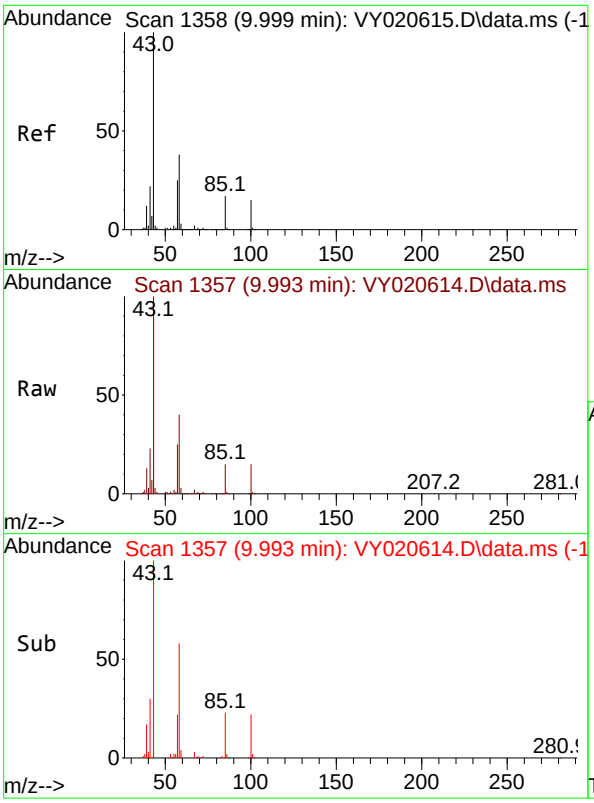




#50
Toluene-d8
Concen: 18.267 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 98 Resp: 122846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 52.1 | 78.1 |



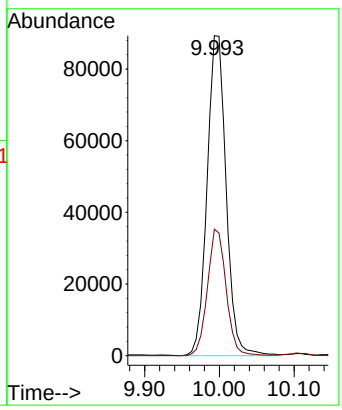


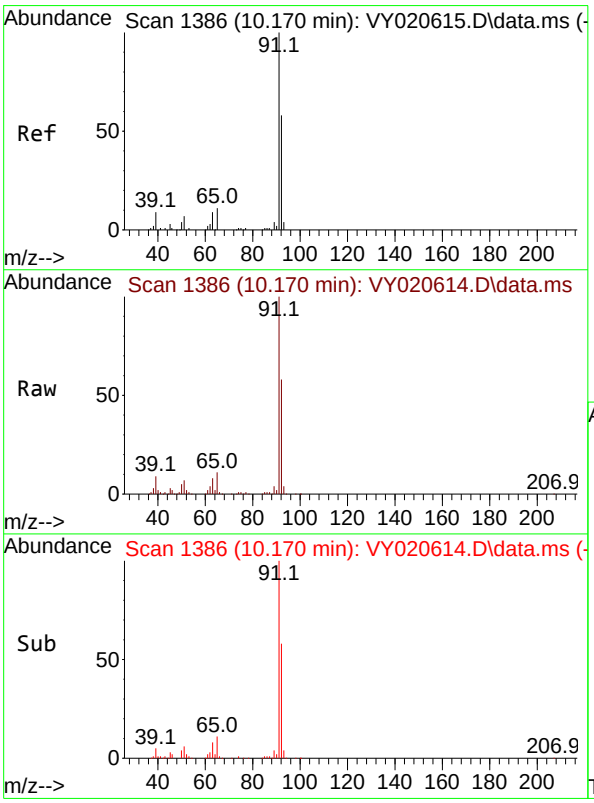

#51
4-Methyl-2-Pentanone
Concen: 95.918 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 157955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.8 | 31.4 | 47.2 |

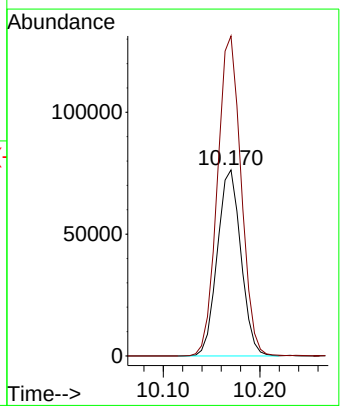


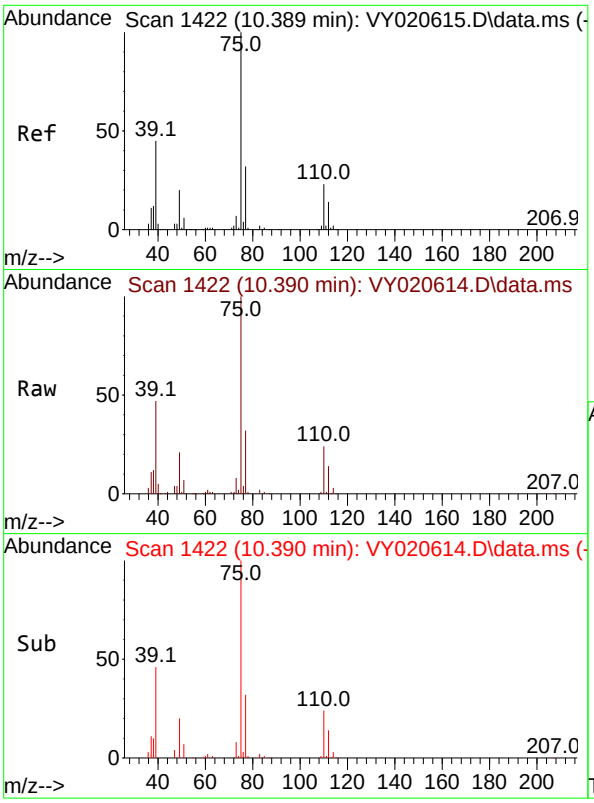




#52
Toluene
Concen: 20.245 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 92 Resp: 129196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.6 | 137.4 | 206.0 |



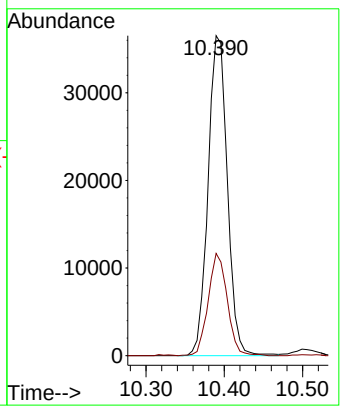


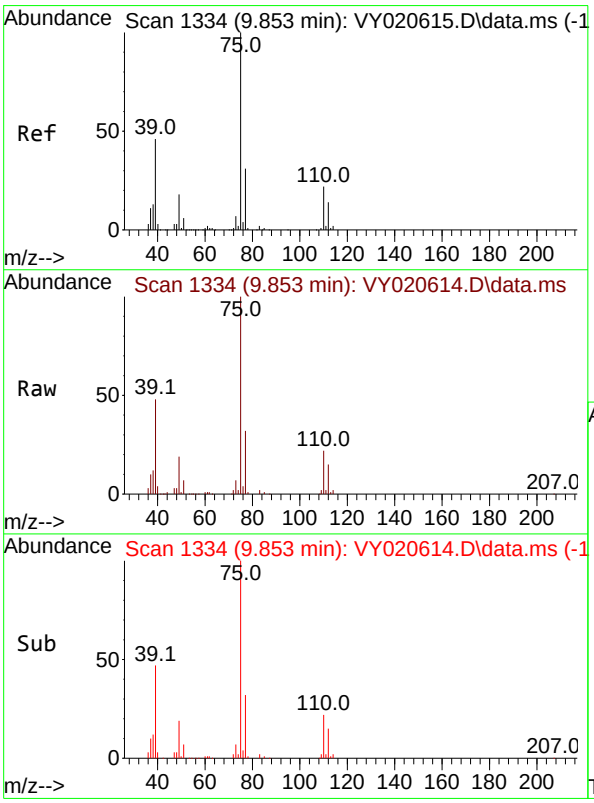

#53
t-1,3-Dichloropropene
Concen: 19.543 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 62391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 25.4 | 38.2 |

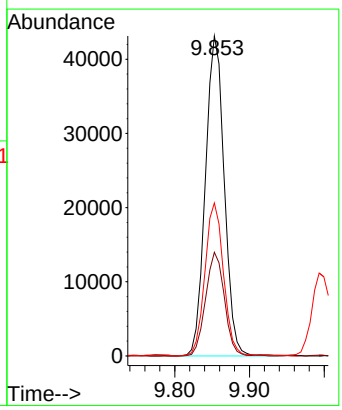


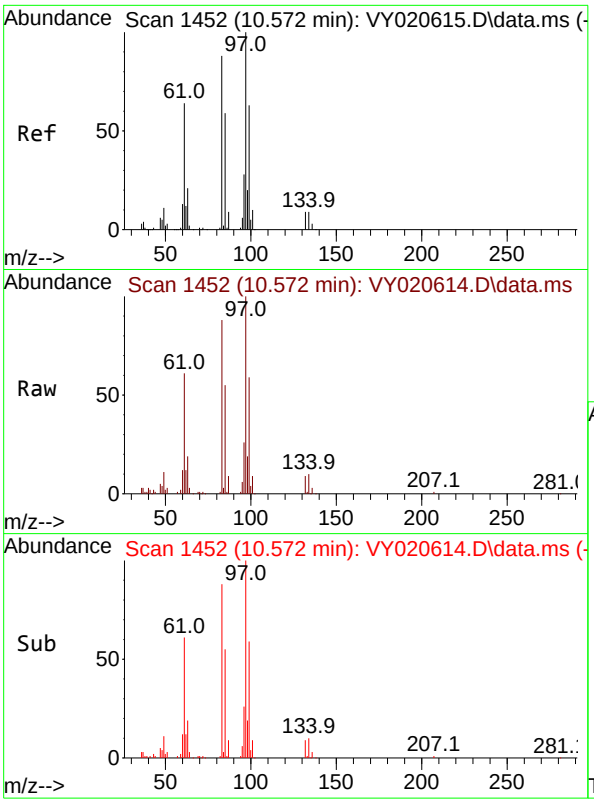




#54
cis-1,3-Dichloropropene
Concen: 19.996 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 75 Resp: 75647

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 24.6 | 36.8 |
| 39 | 47.8 | 36.4 | 54.6 |



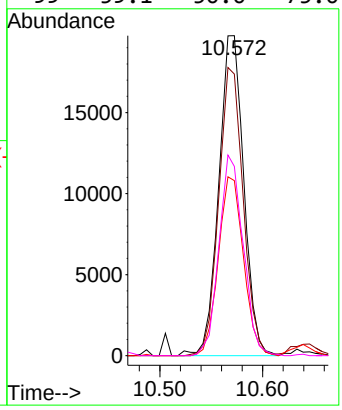


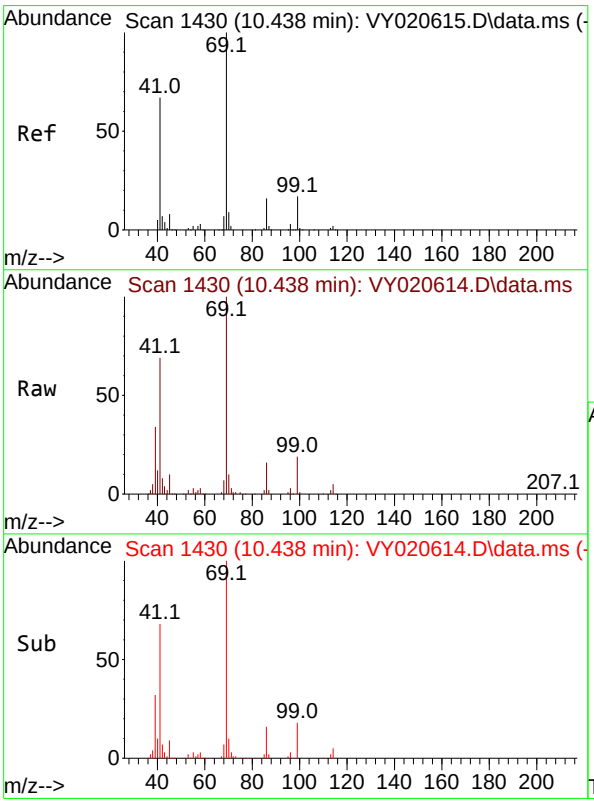

#55
1,1,2-Trichloroethane
Concen: 19.875 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 97 Resp: 33330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.0 | 70.4 | 105.6 |
| 85 | 54.7 | 47.2 | 70.8 |
| 99 | 59.1 | 50.0 | 75.0 |

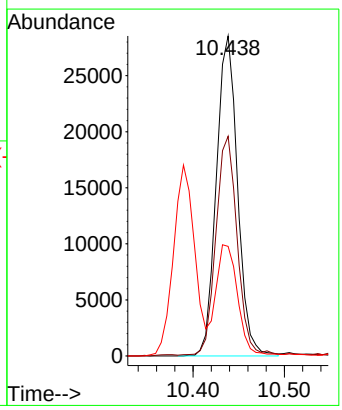


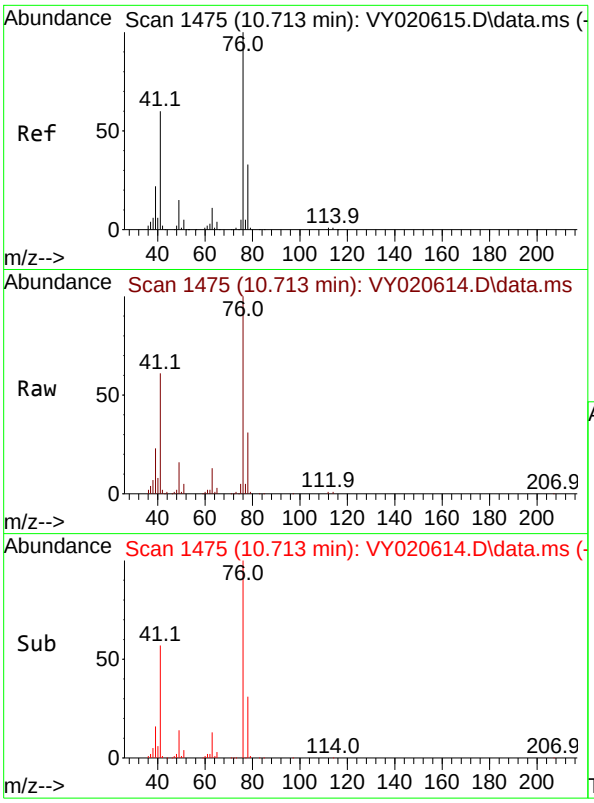




#56
Ethyl methacrylate
Concen: 18.930 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 69 Resp: 46055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 68.4 | 54.0 | 81.0 |
| 39 | 35.0 | 27.9 | 41.9 |



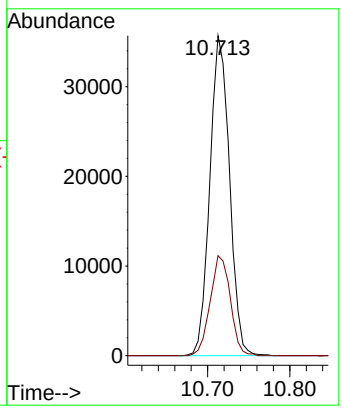


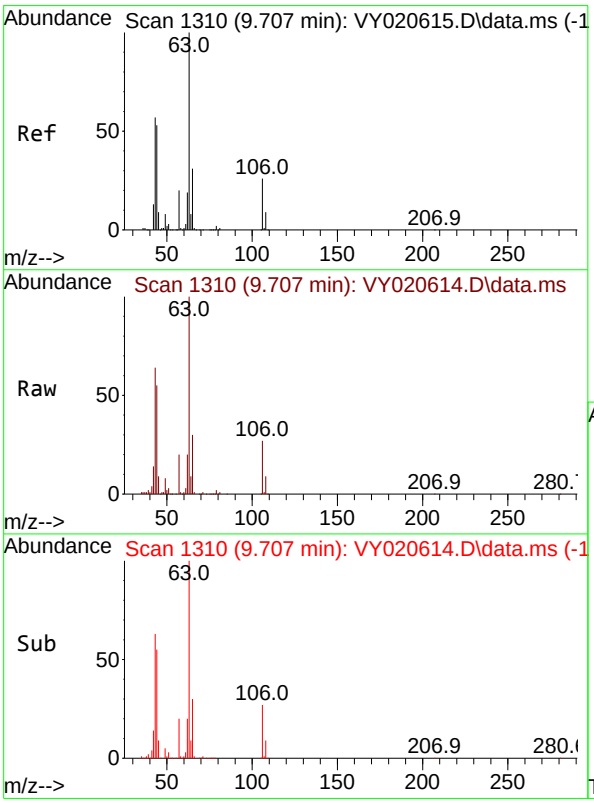

#57
1,3-Dichloropropane
Concen: 19.828 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 59274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 25.8 | 38.8 |

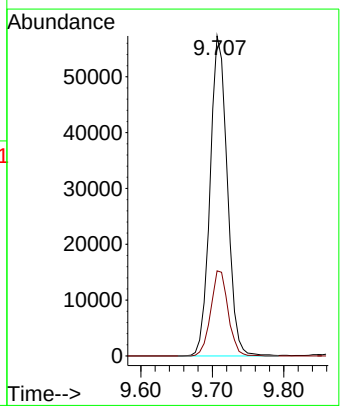


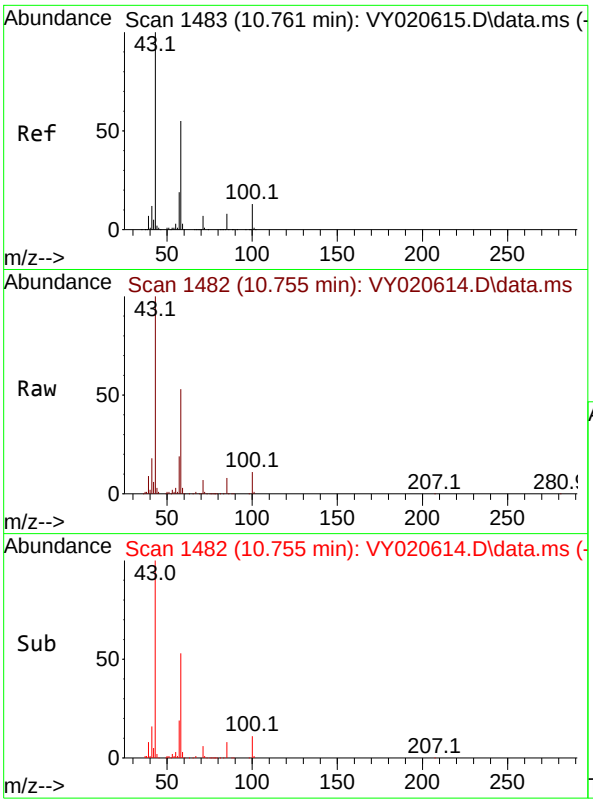




#58
2-Chloroethyl Vinyl ether
Concen: 93.804 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 63 Resp: 96023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.7 | 21.5 | 32.3 |



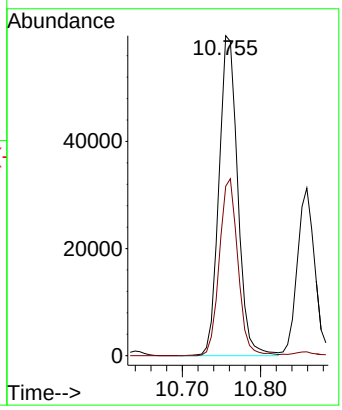


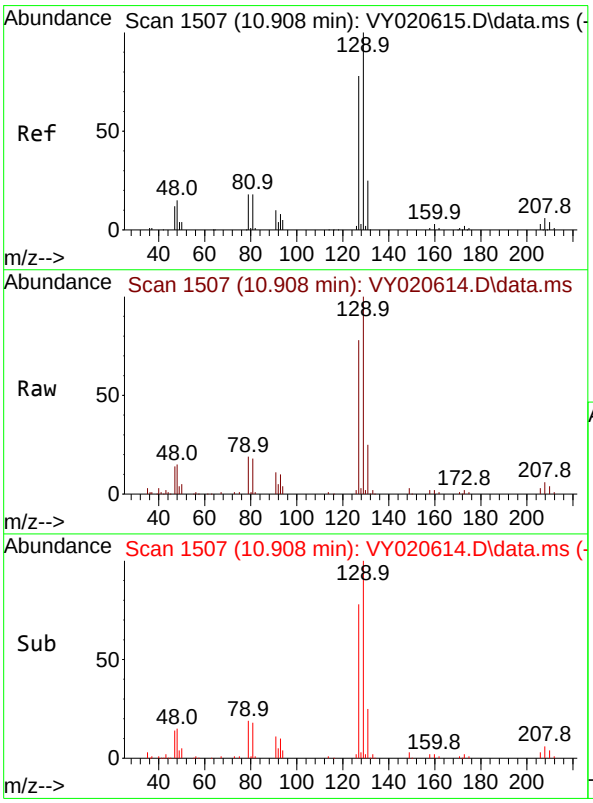

#59
2-Hexanone
Concen: 94.224 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 99623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.6 | 27.2 | 81.6 |

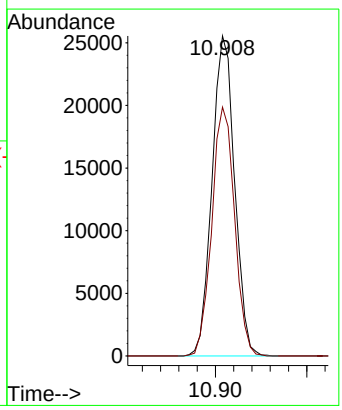


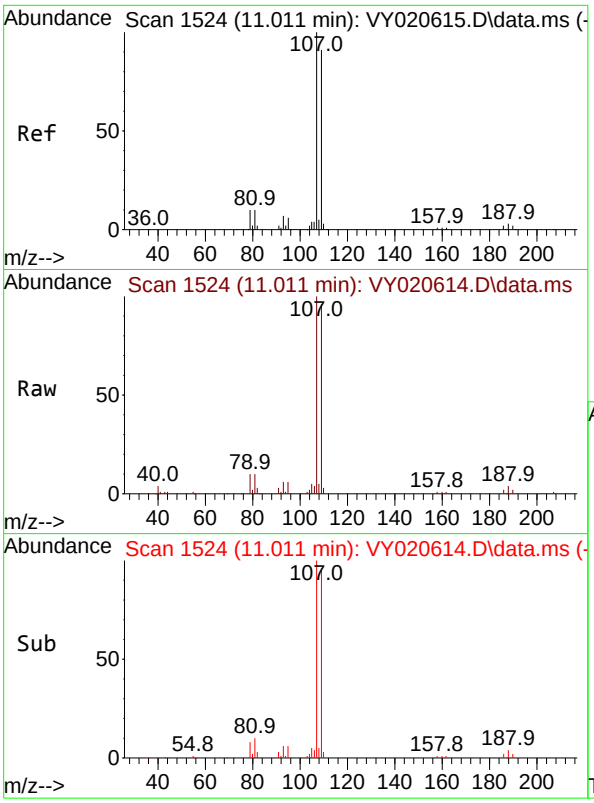




#60
Dibromochloromethane
Concen: 19.541 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:129 Resp: 43825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.2 | 38.1 | 114.3 |



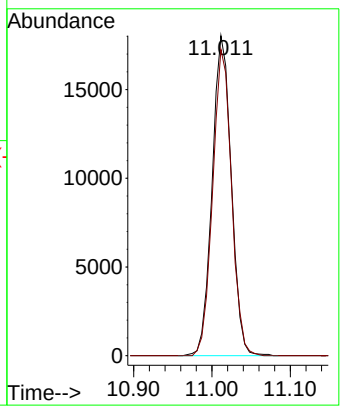


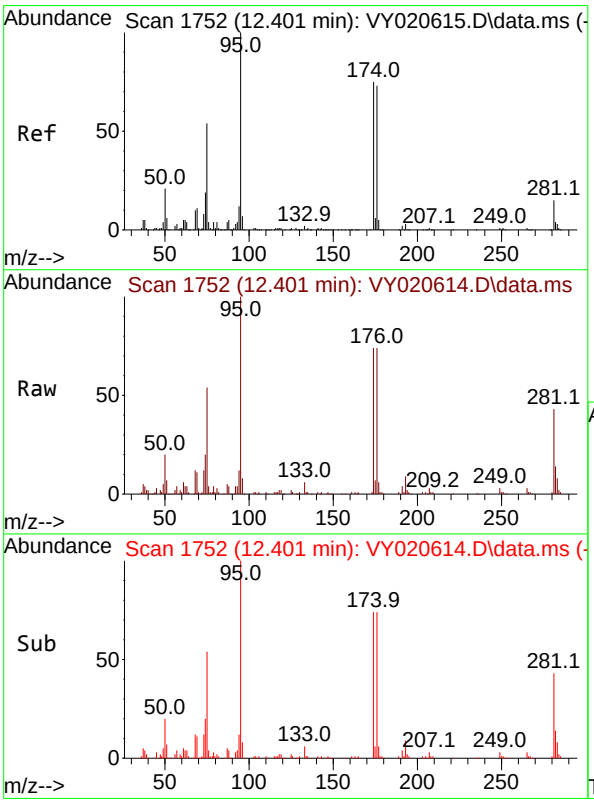

#61
1,2-Dibromoethane
Concen: 19.630 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:107 Resp: 30621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.3 | 75.4 | 113.2 |

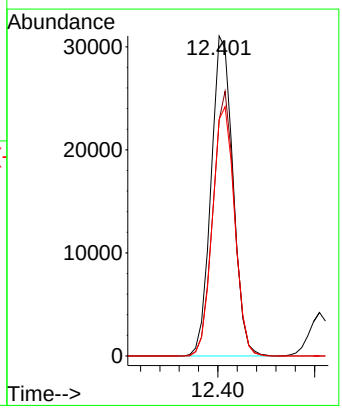


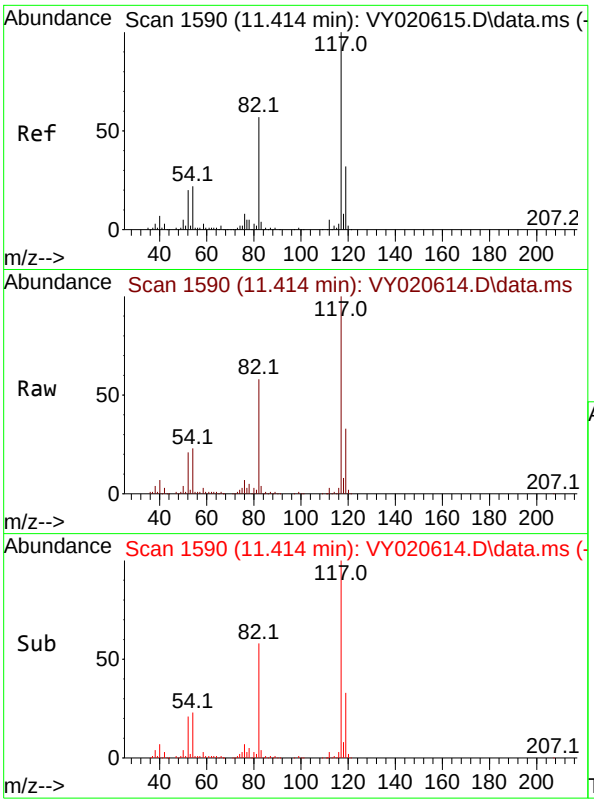




#62
4-Bromofluorobenzene
Concen: 18.552 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 95 Resp: 48801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.8 | 0.0 | 161.8 |
| 176 | 78.7 | 0.0 | 156.6 |



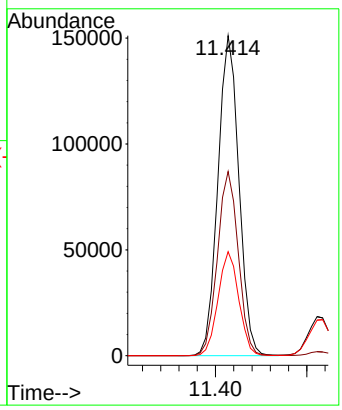


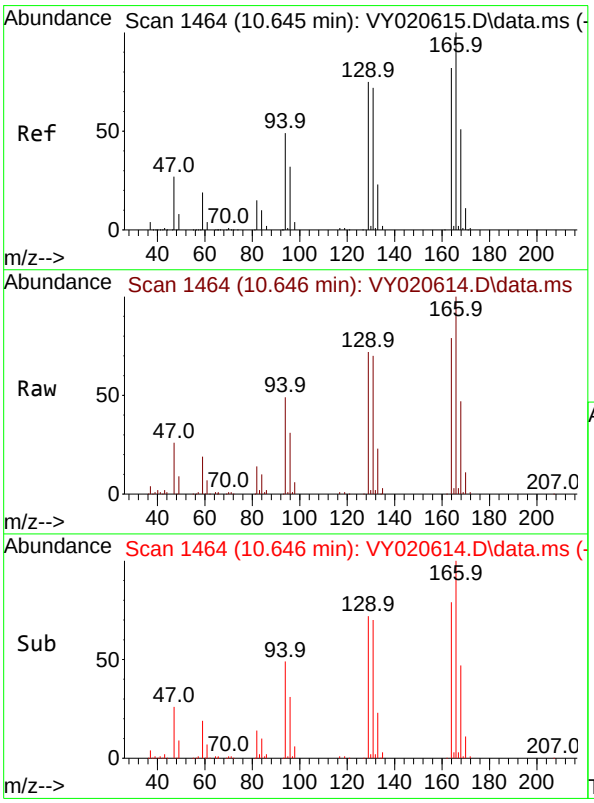

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:117 Resp: 241222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.5 | 45.8 | 68.6 |
| 119 | 32.5 | 25.3 | 37.9 |

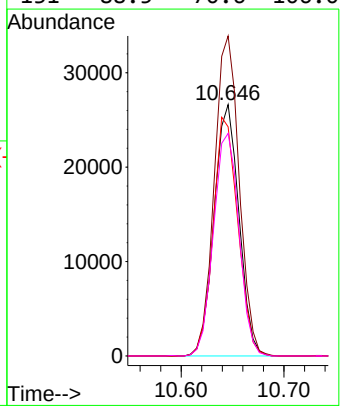


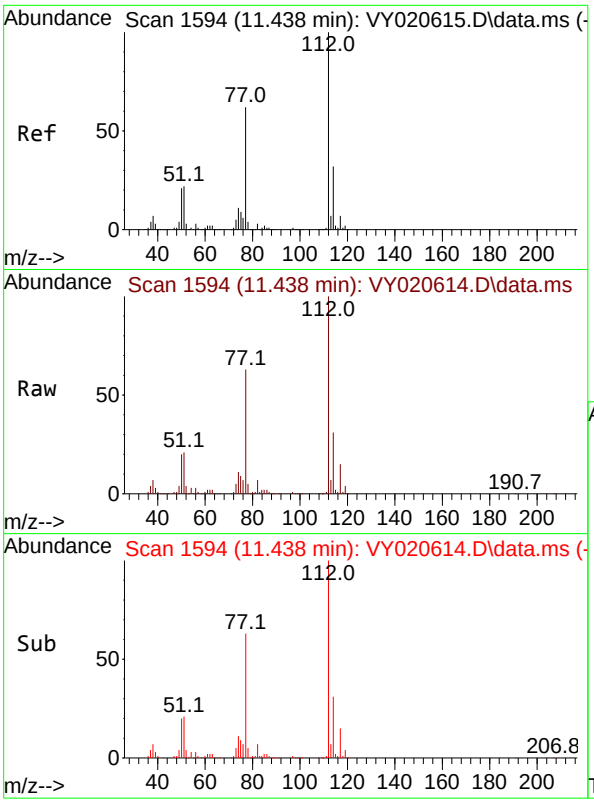




#64
Tetrachloroethene
Concen: 19.716 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:164 Resp: 44735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.3 | 97.9 | 146.9 |
| 129 | 91.1 | 73.4 | 110.0 |
| 131 | 88.5 | 70.6 | 106.0 |



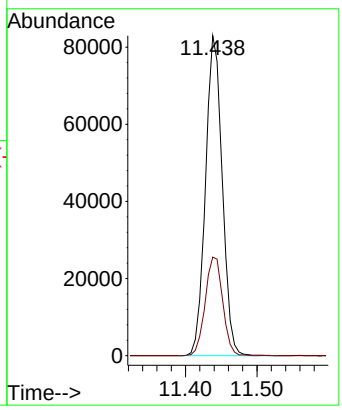


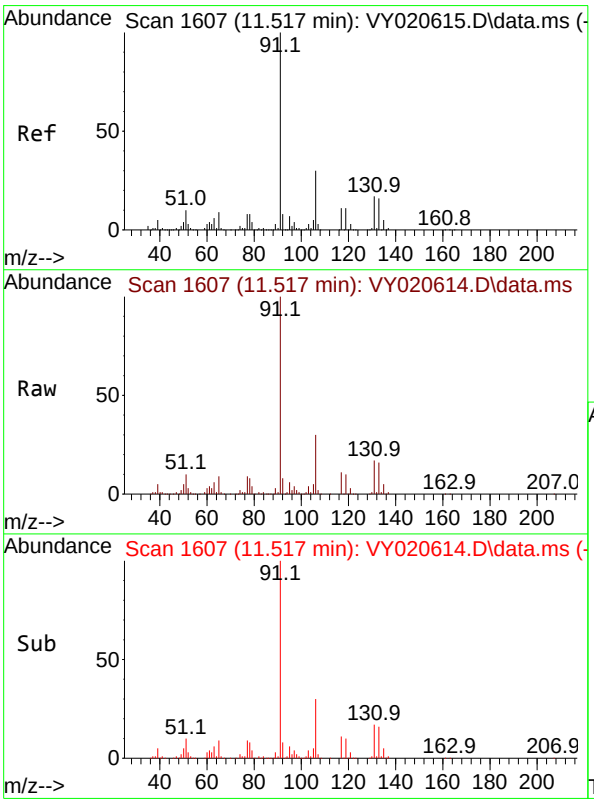

#65
Chlorobenzene
Concen: 19.987 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:112 Resp: 134807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.8 | 26.0 | 39.0 |

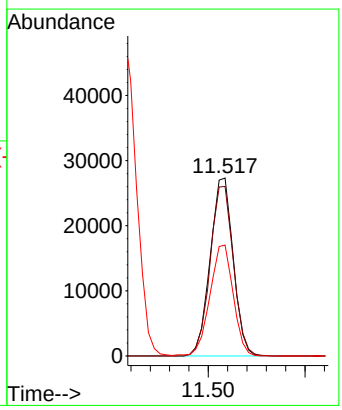


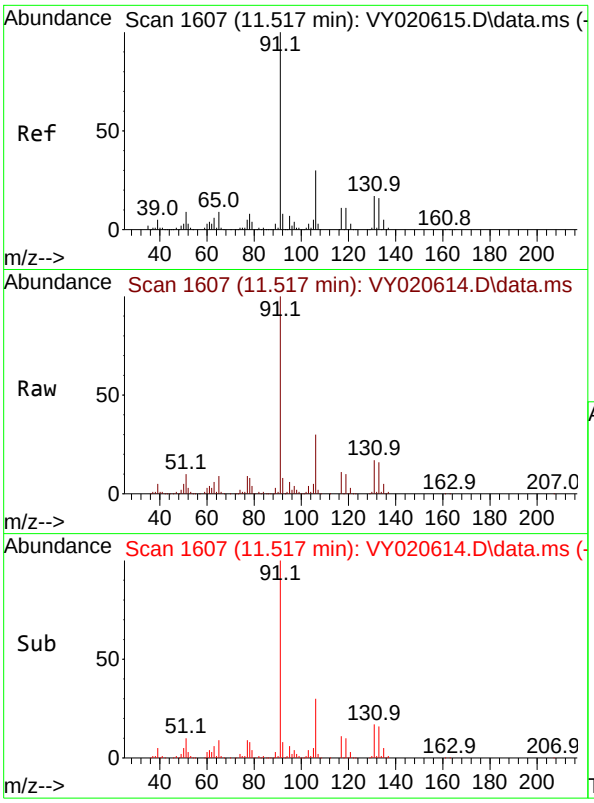




#66
1,1,1,2-Tetrachloroethane
Concen: 19.574 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:131 Resp: 45146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.8 | 46.8 | 140.3 |
| 119 | 63.1 | 31.8 | 95.3 |



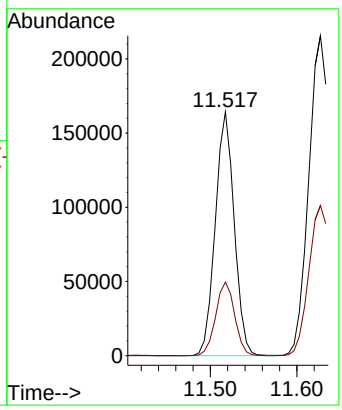


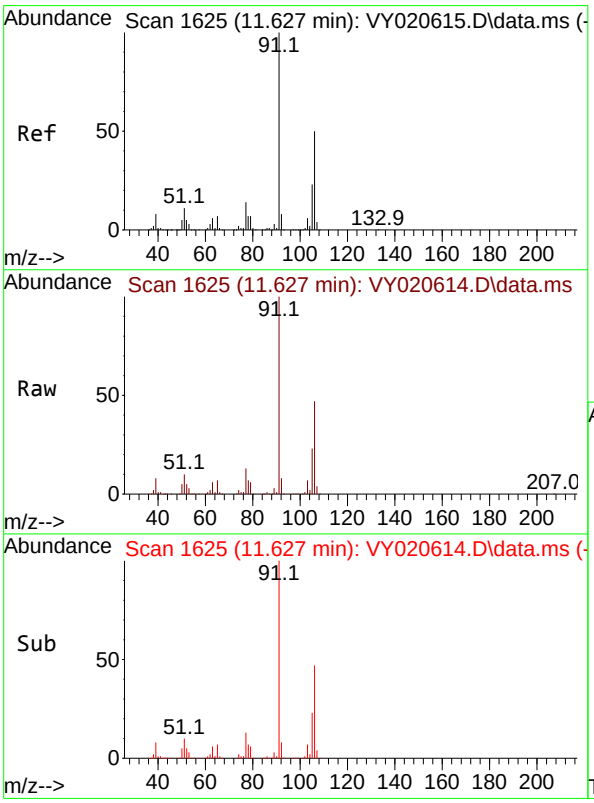

#67
Ethyl Benzene
Concen: 20.027 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 249208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.2 | 23.9 | 35.9 |

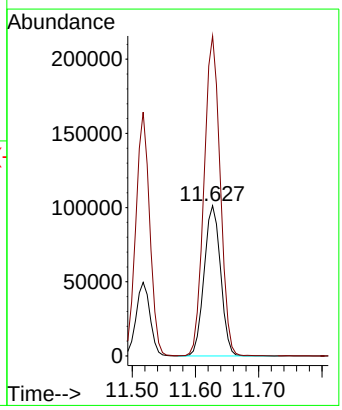


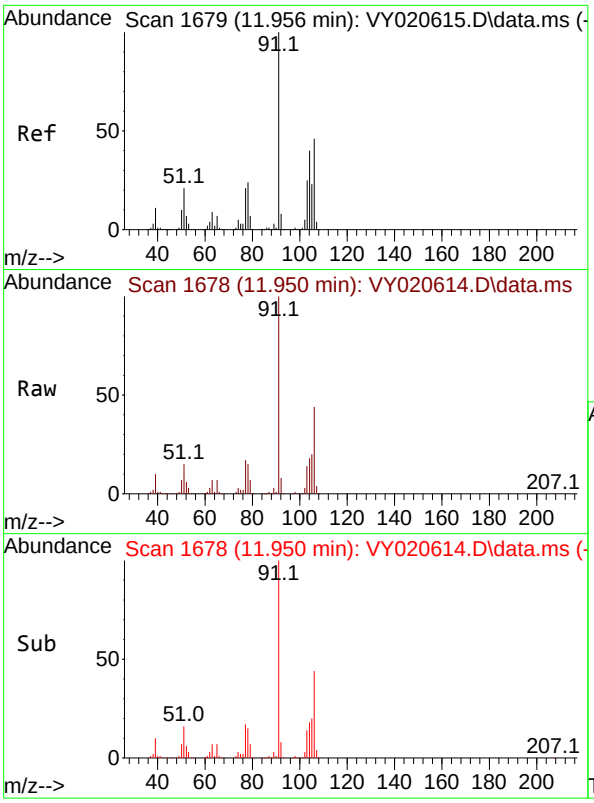




#68
m/p-Xylenes
Concen: 39.659 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:106 Resp: 183488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.9 | 165.0 | 247.4 |



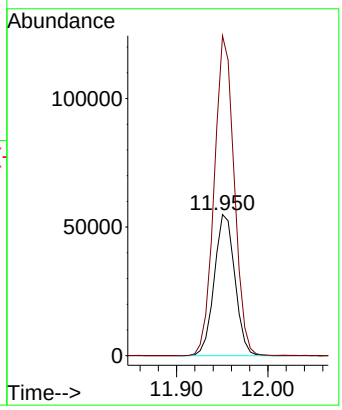


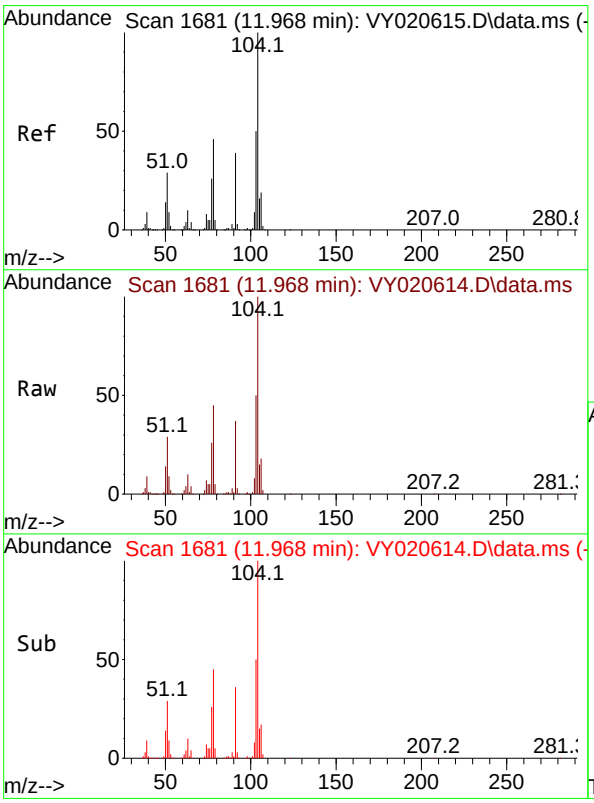

#69
o-Xylene
Concen: 19.932 ug/l
RT: 11.950 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:106 Resp: 86043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.8 | 108.4 | 325.2 |

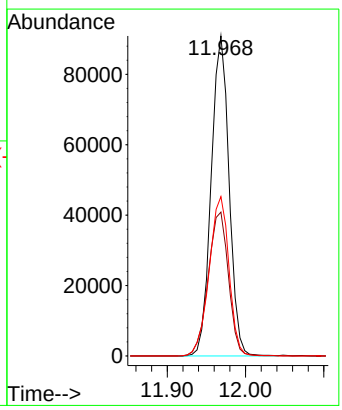


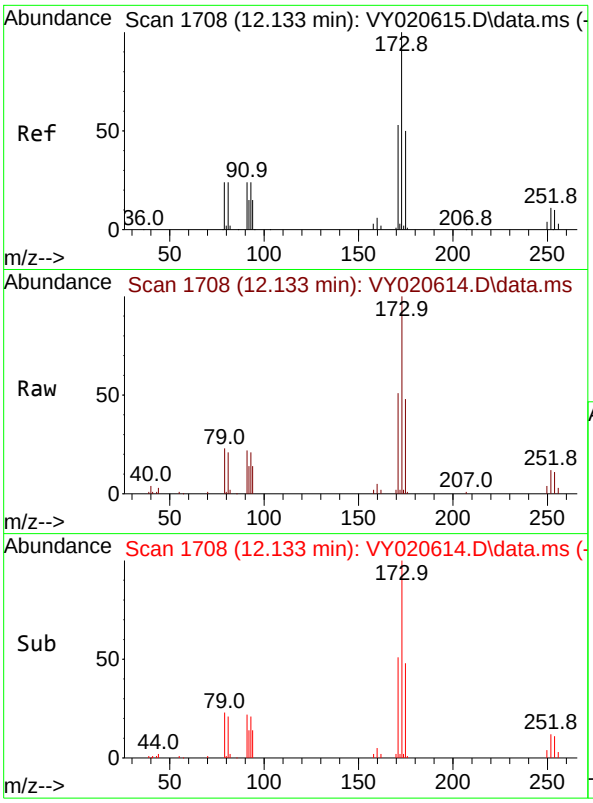




#70
Styrene
Concen: 20.012 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:104 Resp: 144333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.1 | 41.6 | 62.4 |
| 103 | 55.1 | 43.7 | 65.5 |



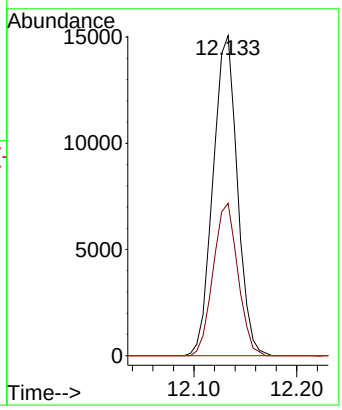


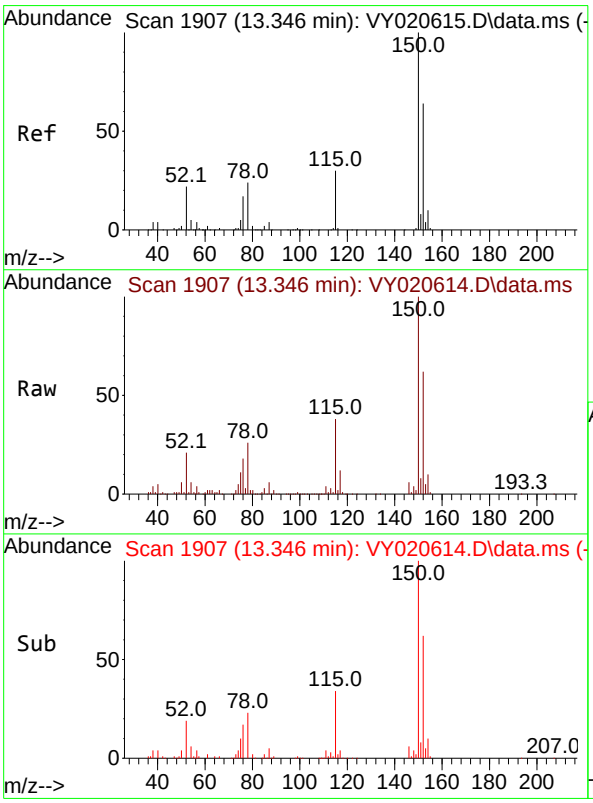

#71
Bromoform
Concen: 19.062 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:173 Resp: 24718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.4 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |

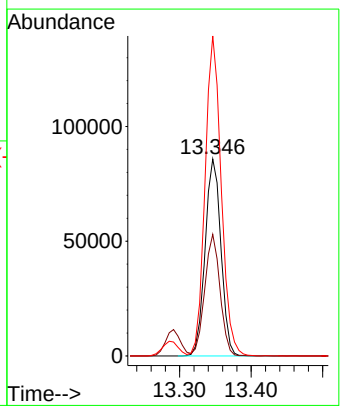


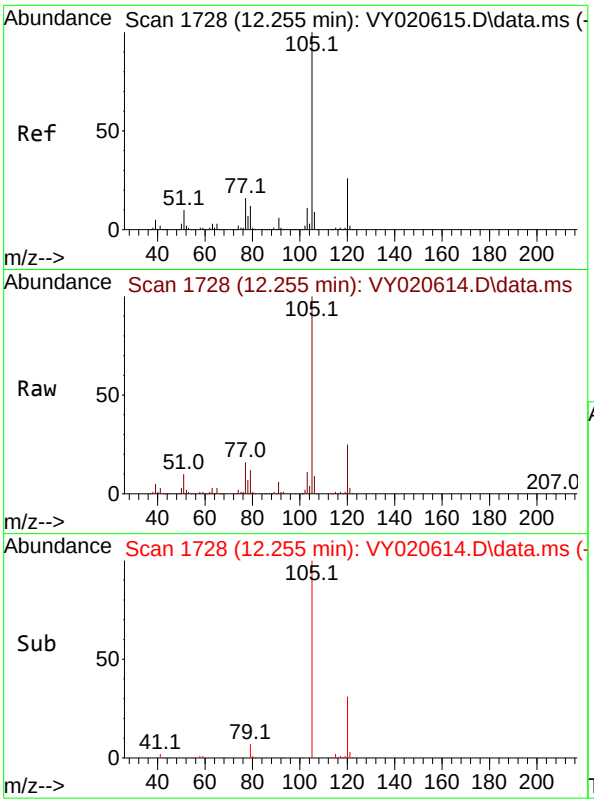




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:152 Resp: 131827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.6 | 30.2 | 90.6 |
| 150 | 165.8 | 0.0 | 355.4 |



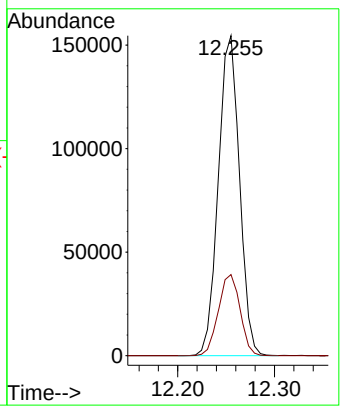


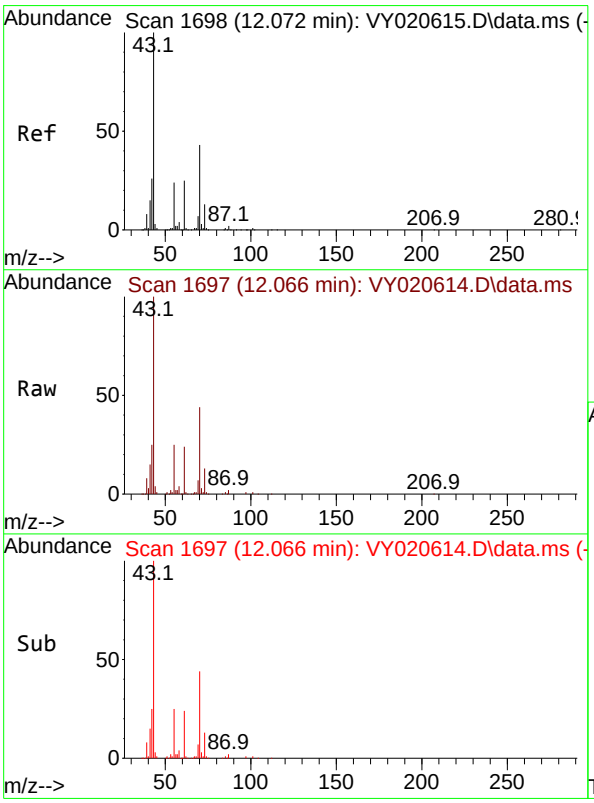

#73
Isopropylbenzene
Concen: 20.404 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 234727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.0 | 13.1 | 39.1 |

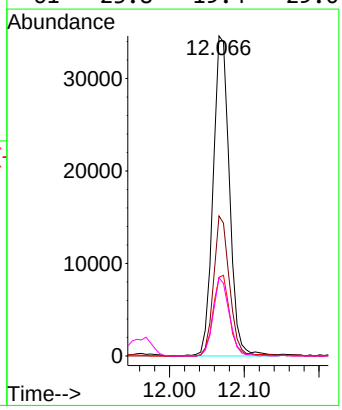


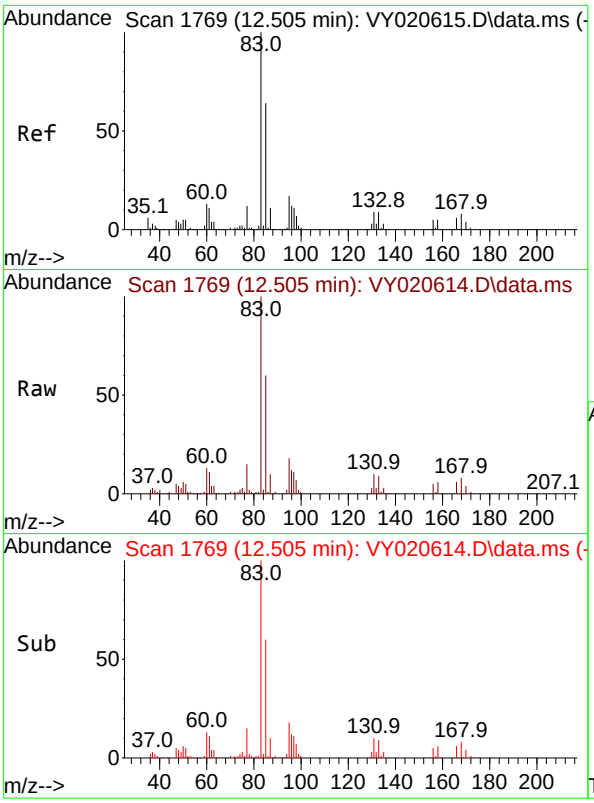




#74
N-amyl acetate
Concen: 19.574 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 43 Resp: 52699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.5 | 34.2 | 51.2 |
| 55 | 25.8 | 19.6 | 29.4 |
| 61 | 23.8 | 19.4 | 29.0 |



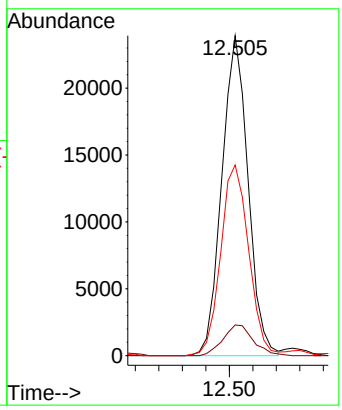


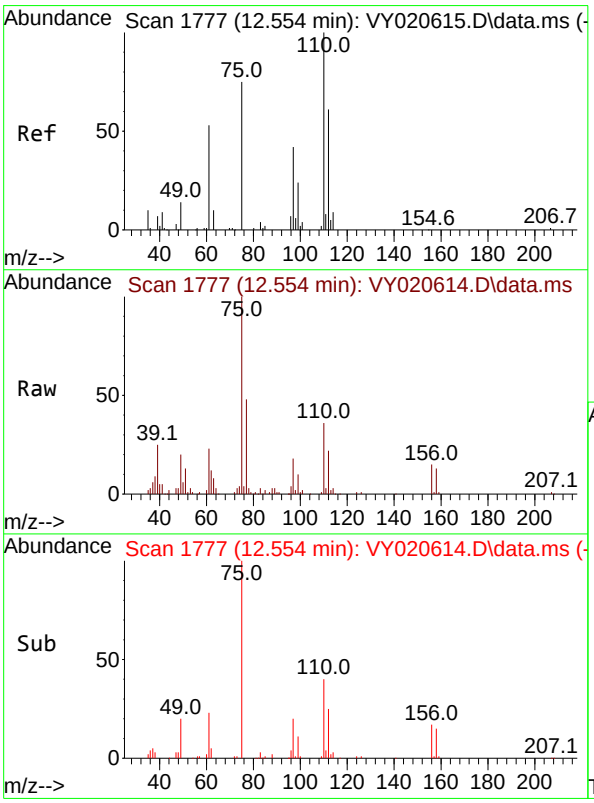

#75
1,1,2,2-Tetrachloroethane
Concen: 19.813 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 36998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.1 | 5.2 | 15.6 |
| 85 | 63.6 | 32.5 | 97.4 |

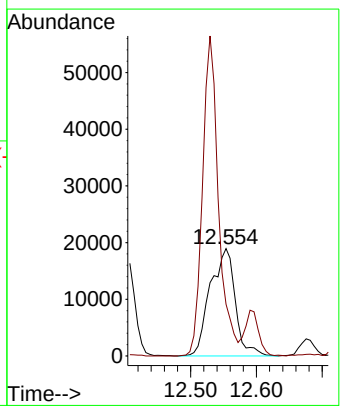


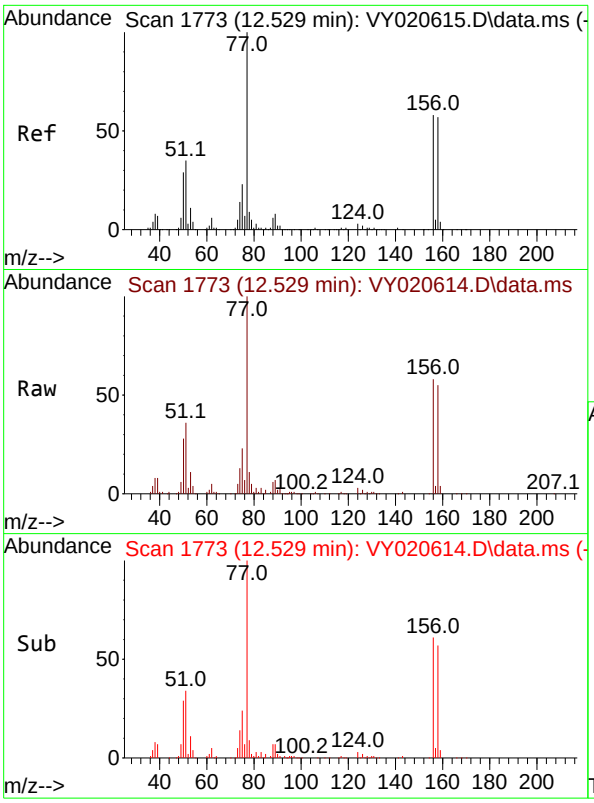




#76
1,2,3-Trichloropropane
Concen: 37.046 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 75 Resp: 50299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



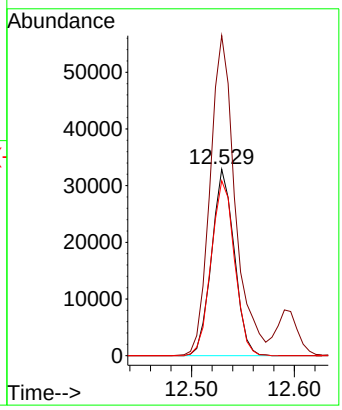


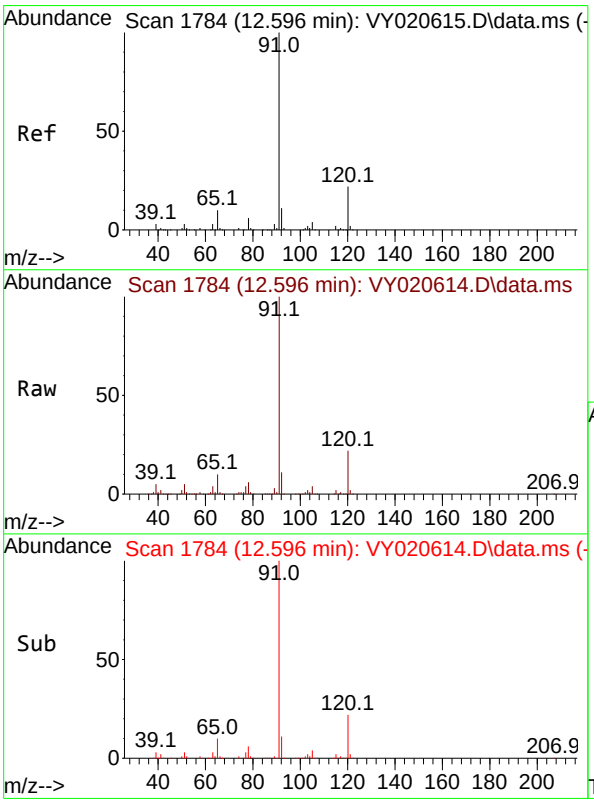

#77
Bromobenzene
Concen: 20.063 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:156 Resp: 50276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 190.2 | 94.2 | 282.4 |
| 158 | 96.8 | 48.9 | 146.6 |

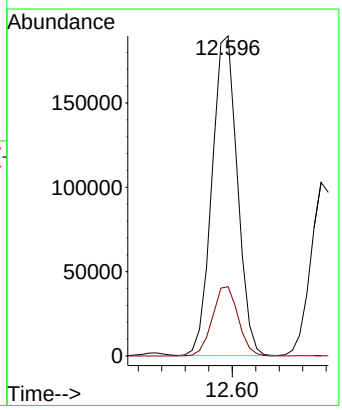


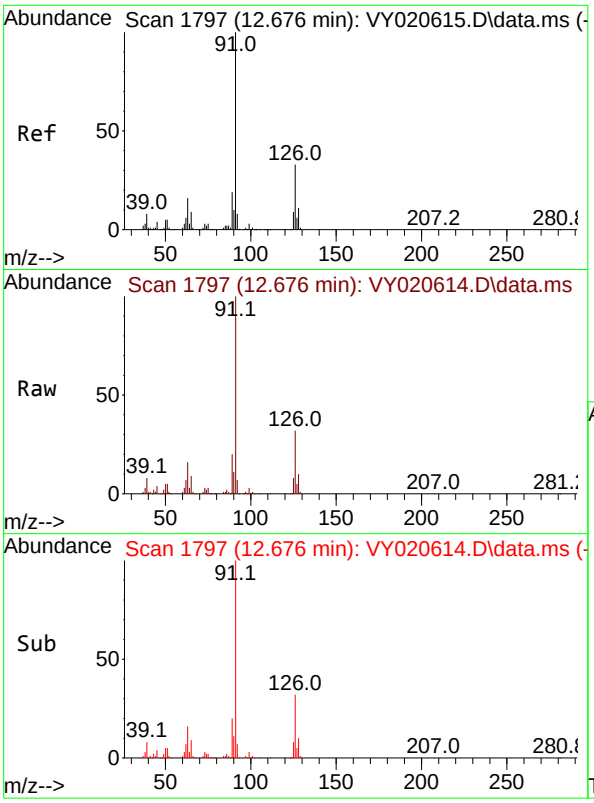




#78
n-propylbenzene
Concen: 20.534 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 91 Resp: 284604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.1 | 11.1 | 33.1 |



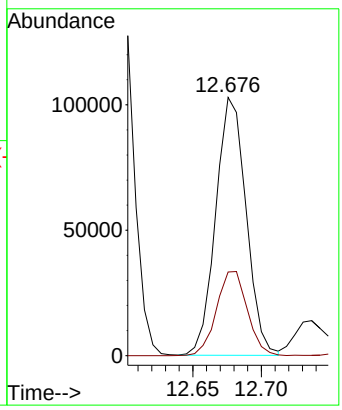


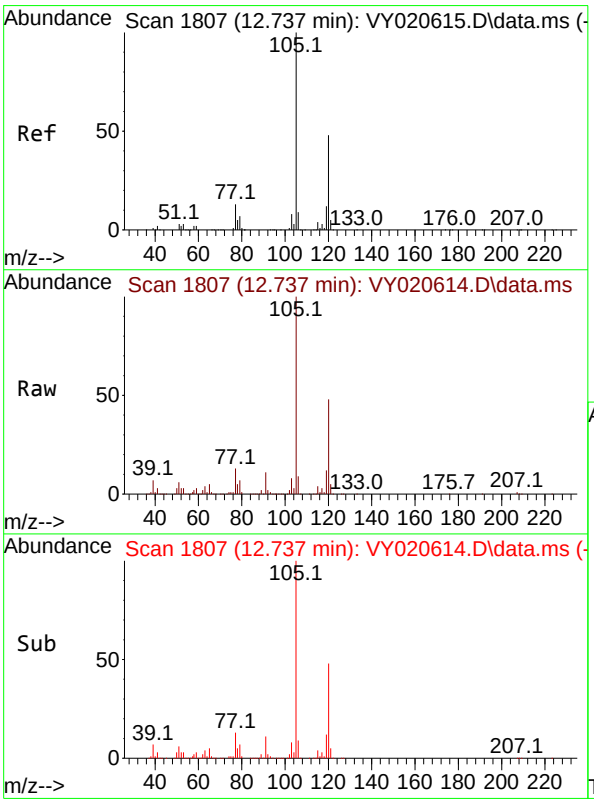

#79
2-Chlorotoluene
Concen: 20.369 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 158834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.2 | 16.6 | 49.7 |

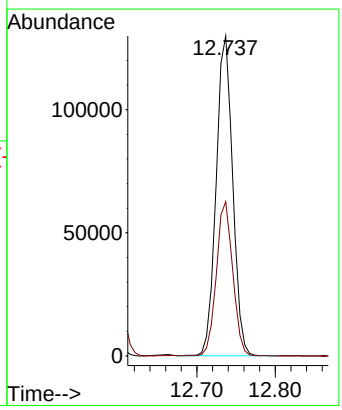


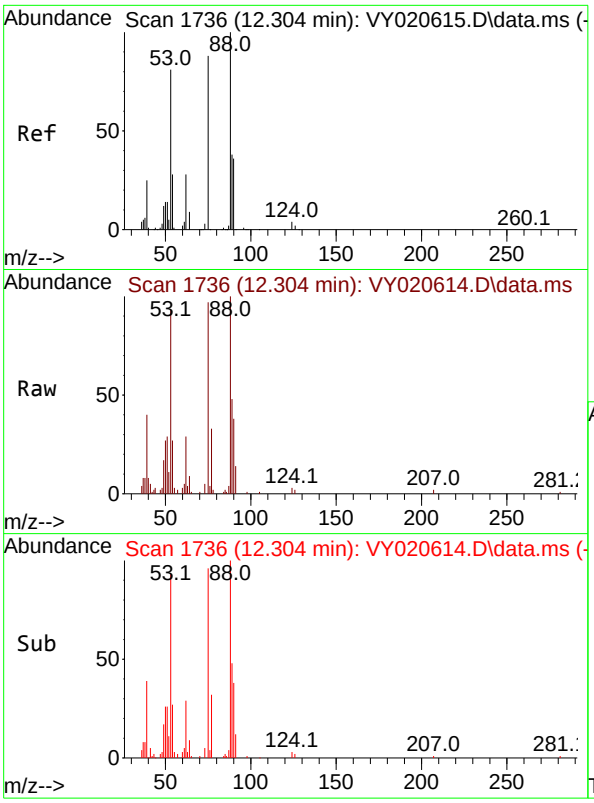




#80
1,3,5-Trimethylbenzene
Concen: 20.458 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:105 Resp: 190968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |



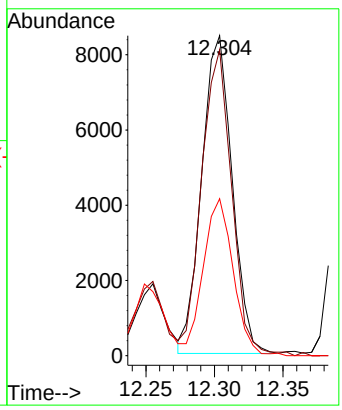


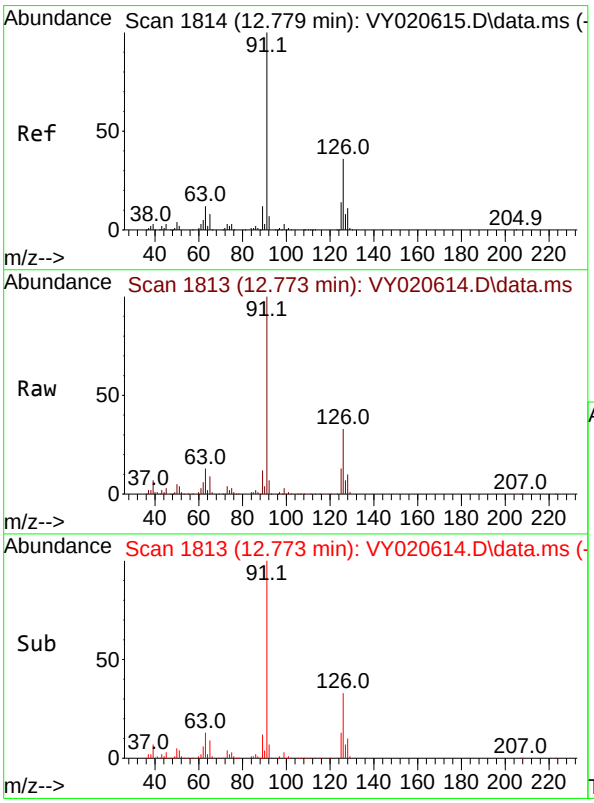

#81
trans-1,4-Dichloro-2-butene
Concen: 19.986 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 13039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.8 | 75.4 | 113.2 |
| 89 | 49.1 | 37.0 | 55.4 |

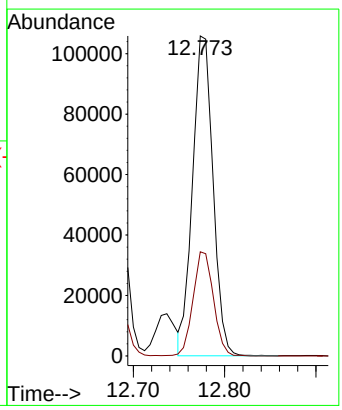


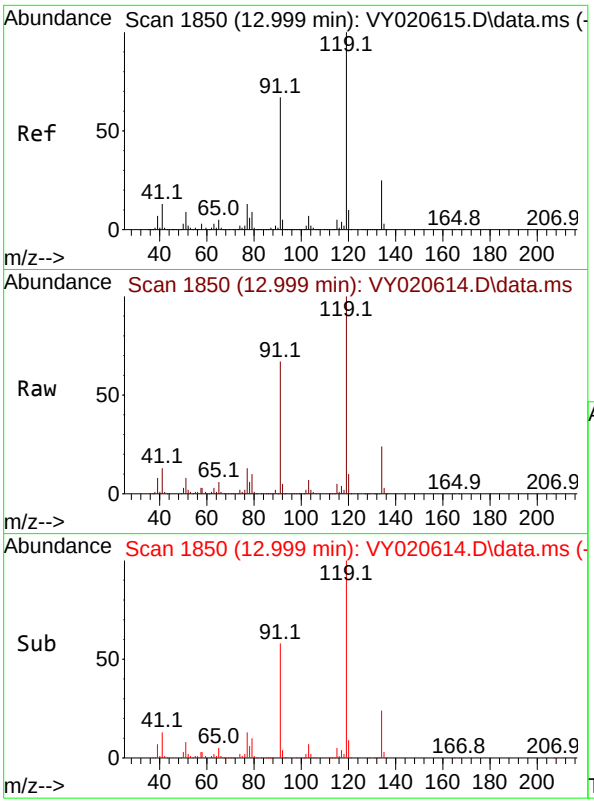




#82
4-Chlorotoluene
Concen: 20.358 ug/l
RT: 12.773 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 91 Resp: 164692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.5 | 16.6 | 49.7 |



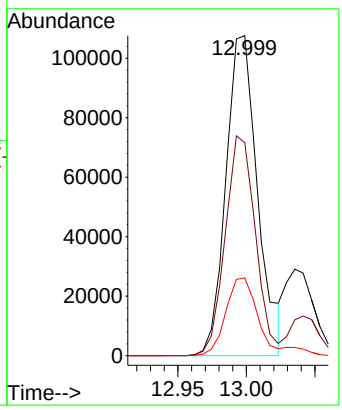


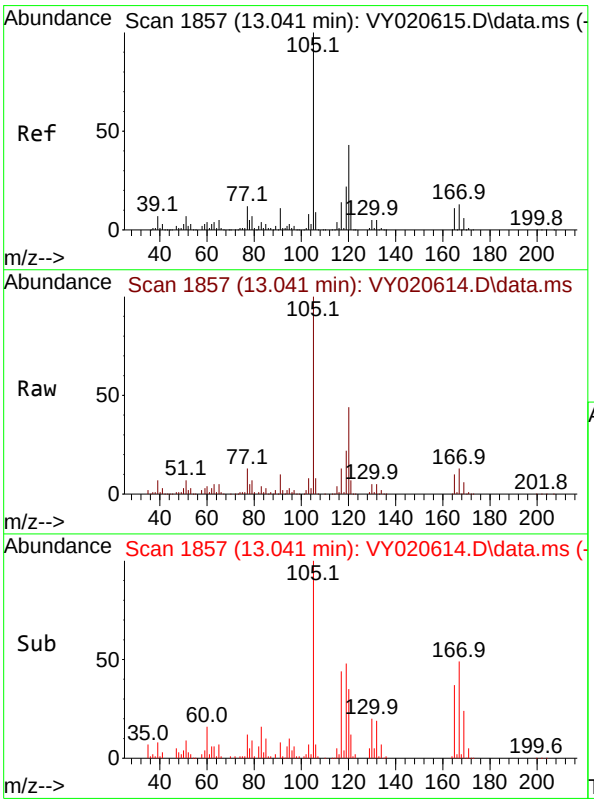

#83
tert-Butylbenzene
Concen: 20.507 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:119 Resp: 173358

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.7 | 32.9 | 98.6 |
| 134 | 25.9 | 13.1 | 39.1 |

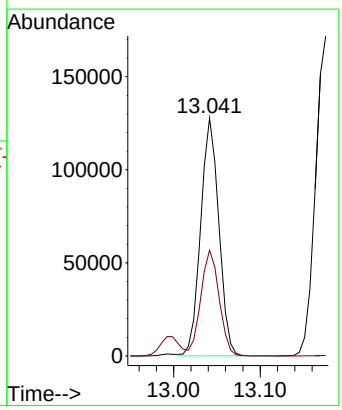


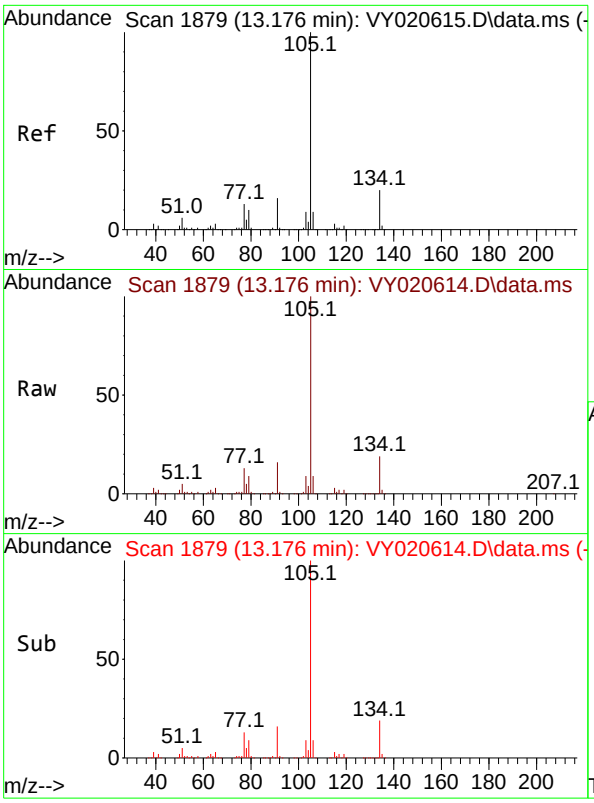




#84
1,2,4-Trimethylbenzene
Concen: 20.352 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:105 Resp: 186344

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 21.8 | 65.4 |



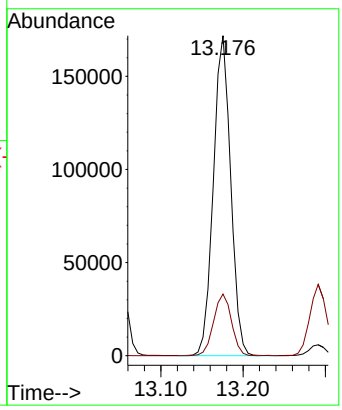


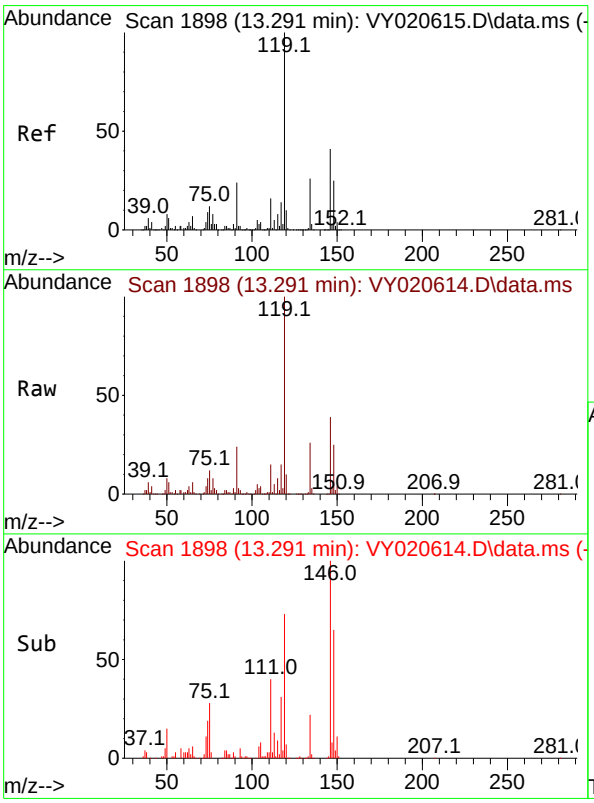

#85
sec-Butylbenzene
Concen: 20.492 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 251880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.0 | 30.0 |

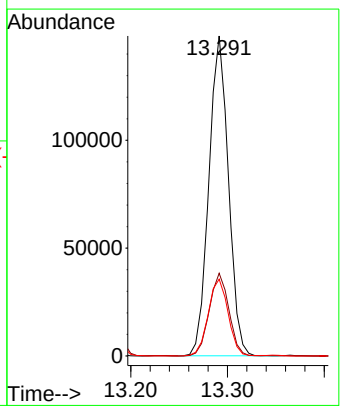


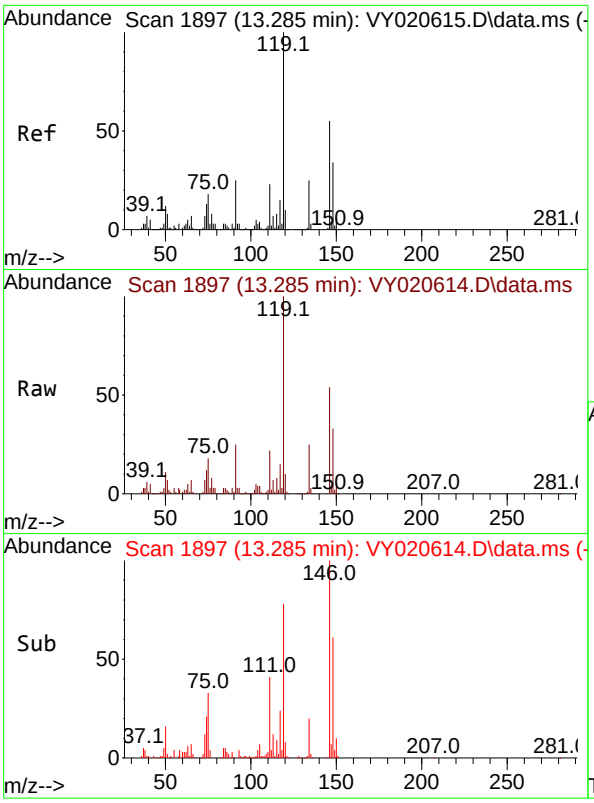




#86
p-Isopropyltoluene
Concen: 20.558 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:119 Resp: 208342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 12.9 | 38.6 |
| 91 | 24.5 | 12.1 | 36.3 |



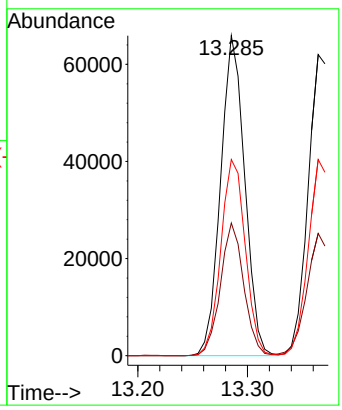


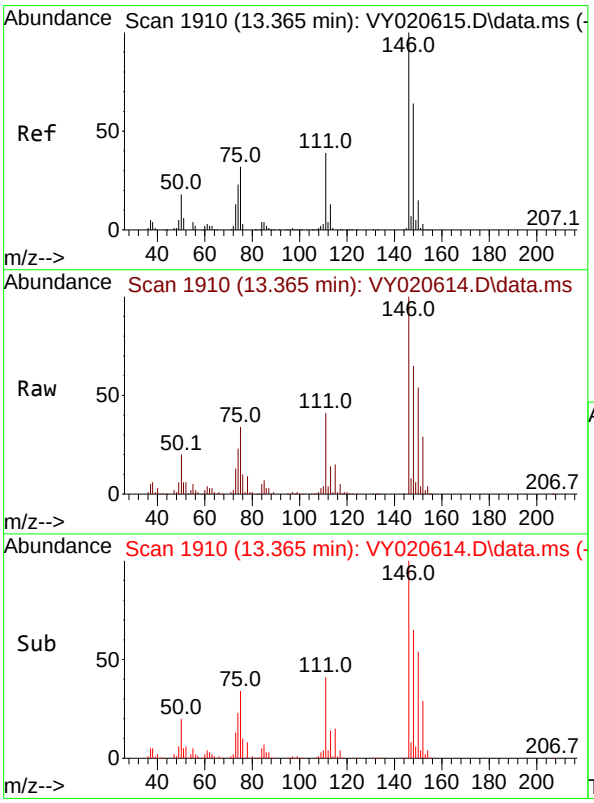

#87
1,3-Dichlorobenzene
Concen: 20.380 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 100815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.1 | 20.6 | 61.8 |
| 148 | 62.1 | 31.4 | 94.0 |

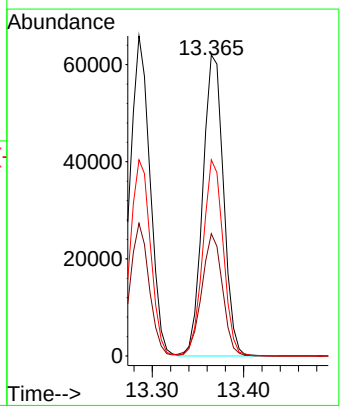


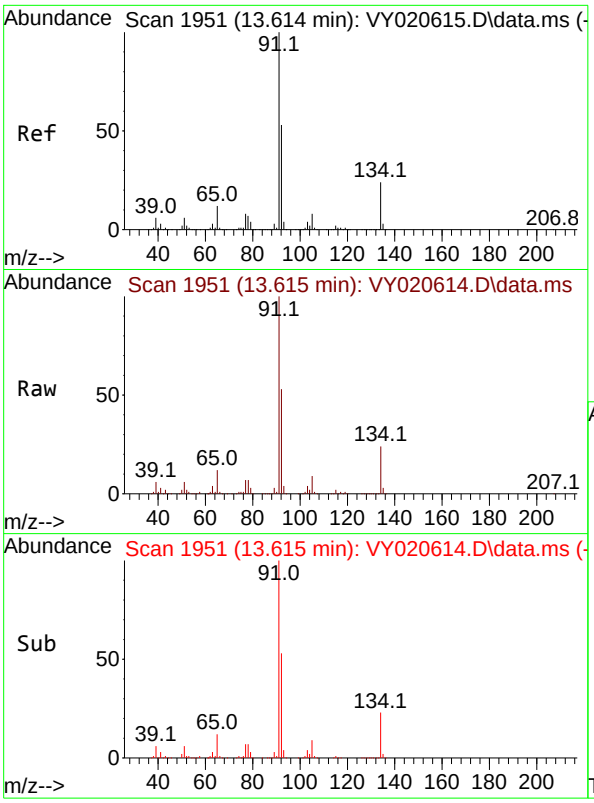




#88
1,4-Dichlorobenzene
Concen: 19.935 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:146 Resp: 97668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.9 | 19.6 | 58.7 |
| 148 | 63.9 | 31.9 | 95.5 |



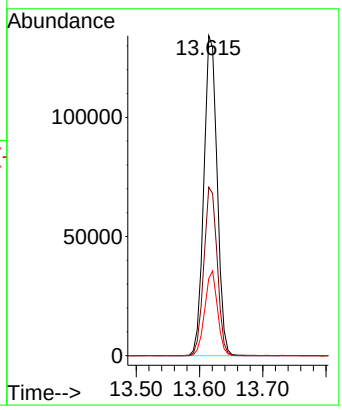


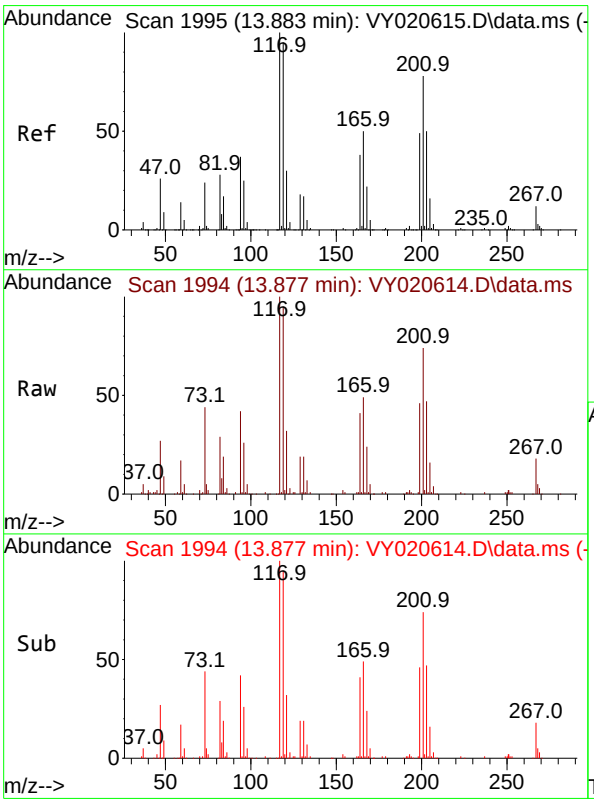

#89
n-Butylbenzene
Concen: 20.511 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 196997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.8 | 26.8 | 80.4 |
| 134 | 25.4 | 12.5 | 37.5 |

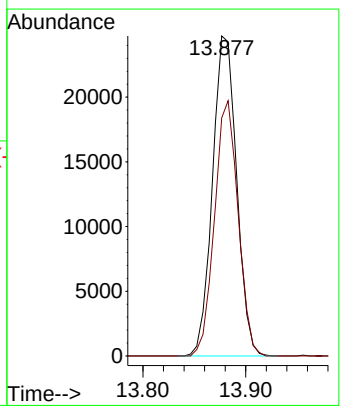


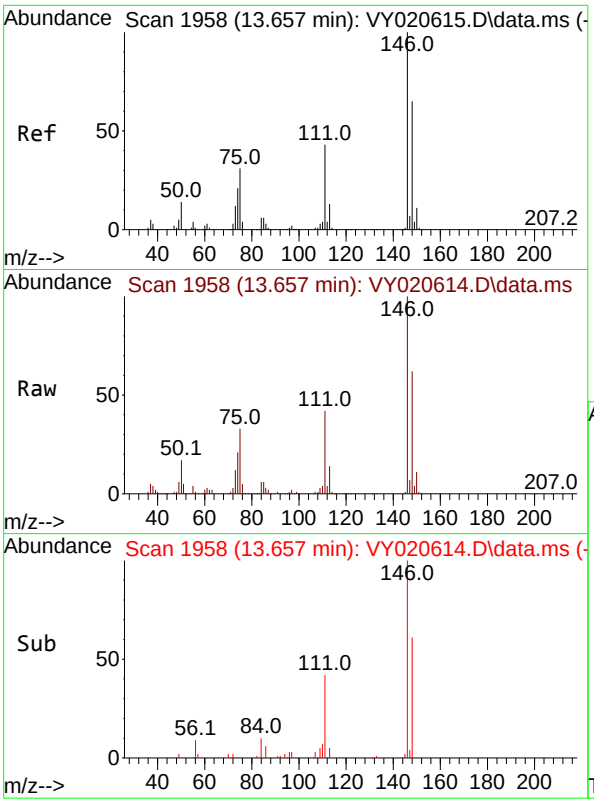




#90
Hexachloroethane
Concen: 20.057 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:117 Resp: 40281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.8 | 39.1 | 117.3 |



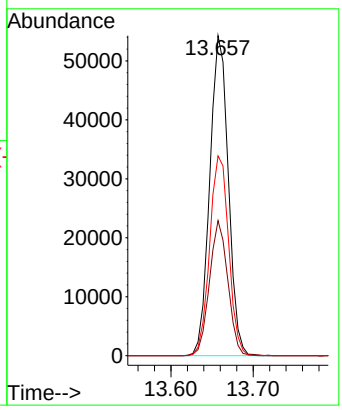


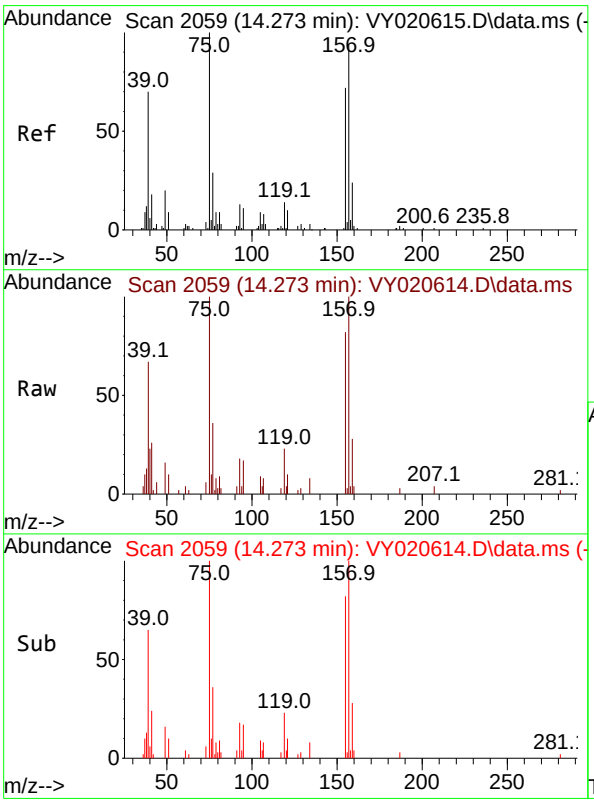

#91
1,2-Dichlorobenzene
Concen: 19.862 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 85128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.6 | 21.3 | 63.7 |
| 148 | 64.0 | 32.0 | 96.0 |

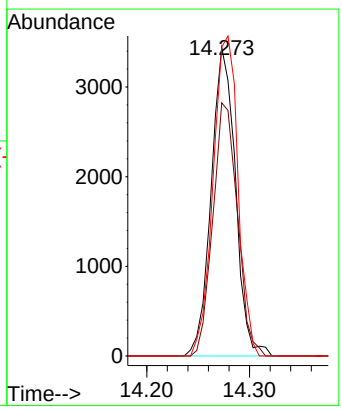


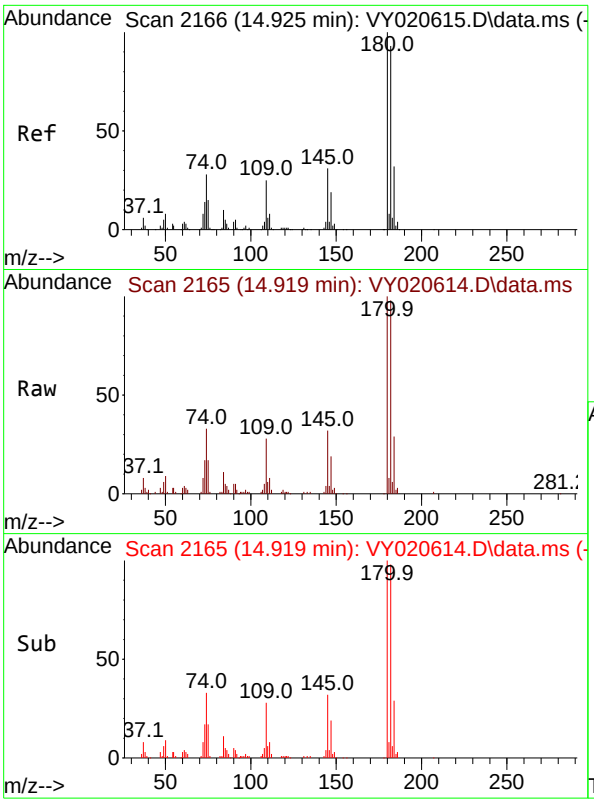




#92
1,2-Dibromo-3-Chloropropane
Concen: 18.561 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion: 75 Resp: 5627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.2 | 41.1 | 123.3 |
| 157 | 106.5 | 52.9 | 158.8 |



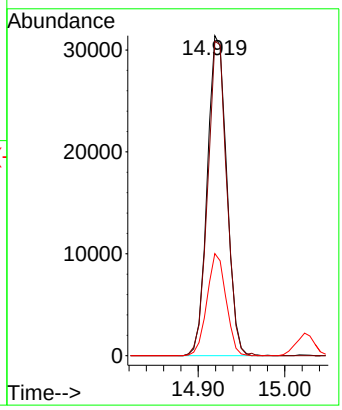


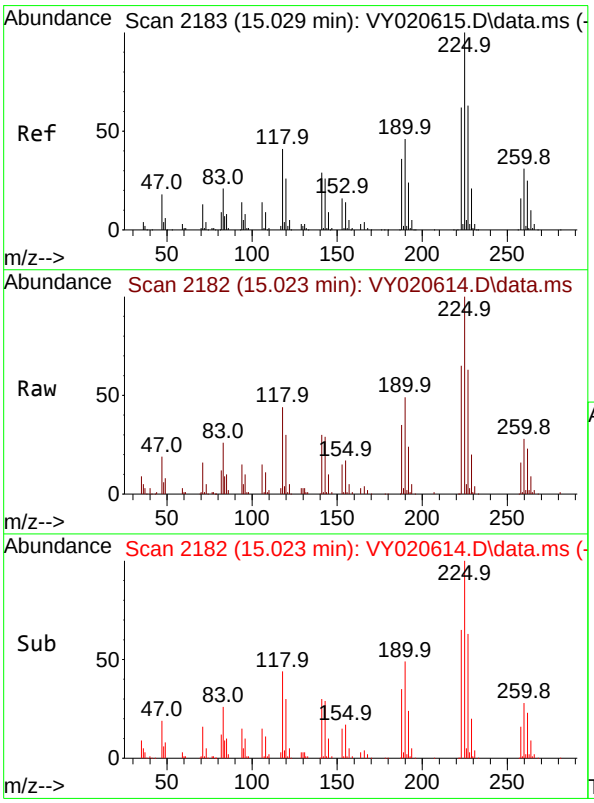

#93
1,2,4-Trichlorobenzene
Concen: 18.850 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:180 Resp: 48869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.4 | 47.9 | 143.6 |
| 145 | 31.3 | 15.6 | 46.7 |

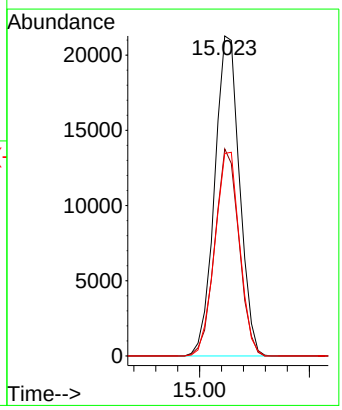


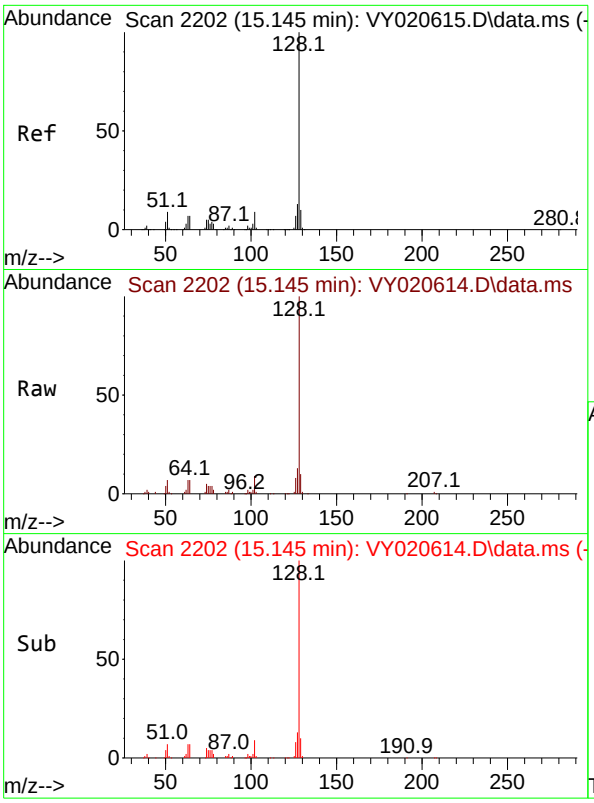




#94
Hexachlorobutadiene
Concen: 19.781 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:225 Resp: 33524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.8 | 95.3 |
| 227 | 63.5 | 32.2 | 96.6 |



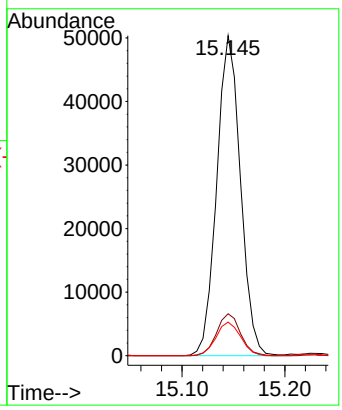


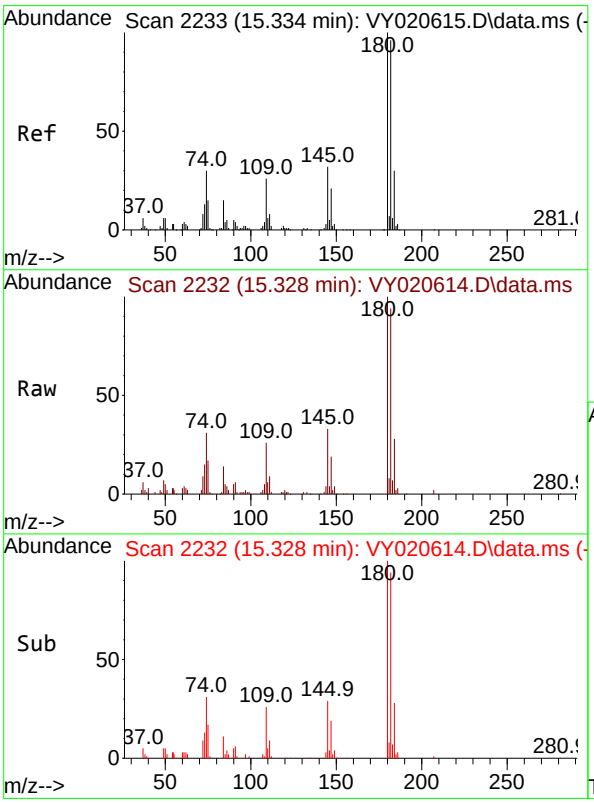

#95
Naphthalene
Concen: 18.126 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:128 Resp: 80562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.7 | 16.1 |
| 129 | 10.9 | 8.5 | 12.7 |

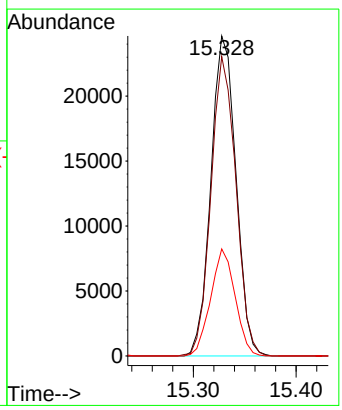



#96
1,2,3-Trichlorobenzene
Concen: 19.031 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.006 min
Lab File: VY020614.D
Acq: 17 Dec 2024 10:23

Tgt Ion:180 Resp: 41686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.1 | 47.3 | 141.9 |
| 145 | 32.6 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 169292 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 263162 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 234325 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 130092 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 96289 | 51.933 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 103.860% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 94848 | 51.139 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 102.280% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 334601 | 51.543 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 103.080% | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 126226 | 49.707 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 99.420% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 104493 | 49.416 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 72429 | 46.229 | ug/l | 100 |
| 4) Vinyl Chloride | 2.202 | 62 | 62750 | 43.031 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 38716 | 41.303 | ug/l | 100 |
| 6) Chloroethane | 2.738 | 64 | 35946 | 39.890 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.061 | 101 | 133990 | 43.913 | ug/l | 100 |
| 8) Diethyl Ether | 3.458 | 74 | 49218 | 45.993 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.817 | 101 | 102158 | 46.710 | ug/l | 100 |
| 10) Methyl Iodide | 4.006 | 142 | 117209 | 48.135 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.860 | 59 | 42756 | 214.068 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 99773 | 47.016 | ug/l | 100 |
| 13) Acrolein | 3.653 | 56 | 14576 | 166.258 | ug/l | 100 |
| 14) Allyl chloride | 4.384 | 41 | 173951 | 46.780 | ug/l | 100 |
| 15) Acrylonitrile | 5.055 | 53 | 130861 | 255.615 | ug/l | 100 |
| 16) Acetone | 3.866 | 43 | 83206 | 225.255 | ug/l | 100 |
| 17) Carbon Disulfide | 4.104 | 76 | 328309 | 47.529 | ug/l | 100 |
| 18) Methyl Acetate | 4.384 | 43 | 59224 | 46.948 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 281609 | 51.414 | ug/l | 100 |
| 20) Methylene Chloride | 4.616 | 84 | 104472 | 45.319 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 120184 | 50.488 | ug/l | 100 |
| 22) Diisopropyl ether | 6.024 | 45 | 387073 | 51.282 | ug/l | 100 |
| 23) Vinyl Acetate | 5.963 | 43 | 1112368 | 260.208 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 223898 | 50.635 | ug/l | 100 |
| 25) 2-Butanone | 6.896 | 43 | 167158 | 242.593 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 200438 | 47.951 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 138280 | 50.490 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 83821 | 56.199 | ug/l | 100 |
| 29) Tetrahydrofuran | 7.262 | 42 | 112230 | 258.011 | ug/l | 100 |
| 30) Chloroform | 7.420 | 83 | 233357 | 52.860 | ug/l | 100 |
| 31) Cyclohexane | 7.701 | 56 | 202782 | 47.962 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 202760 | 49.911 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 167520 | 49.533 | ug/l | 100 |
| 37) Ethyl Acetate | 6.981 | 43 | 78387 | 49.275 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 184345 | 49.267 | ug/l | 100 |
| 39) Methylcyclohexane | 9.109 | 83 | 219055 | 49.696 | ug/l | 100 |
| 40) Benzene | 8.079 | 78 | 489140 | 49.343 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 40529 | 48.191 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 131640 | 50.069 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 153226 | 50.877 | ug/l | | 100 |
| 44) Trichloroethene | 8.865 | 130 | 120552 | 49.491 | ug/l | | 100 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 114250 | 49.313 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 60782 | 49.642 | ug/l | | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 166333 | 50.291 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 72602 | 50.709 | ug/l | | 100 |
| 49) 1,4-Dioxane | 9.231 | 88 | 14069 | 1001.939 | ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 393979 | 247.835 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 307082 | 49.846 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.389 | 75 | 158536 | 51.442 | ug/l | | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 185696 | 50.849 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 79837 | 49.318 | ug/l | | 100 |
| 56) Ethyl methacrylate | 10.438 | 69 | 121030 | 51.535 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 146053 | 50.611 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 226061 | 228.767 | ug/l | | 100 |
| 59) 2-Hexanone | 10.761 | 43 | 261334 | 256.048 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 110597 | 51.085 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 75811 | 50.346 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.645 | 164 | 105939 | 48.065 | ug/l | | 100 |
| 65) Chlorobenzene | 11.438 | 112 | 322053 | 49.154 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 111060 | 49.571 | ug/l | | 100 |
| 67) Ethyl Benzene | 11.517 | 91 | 598896 | 49.546 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 446771 | 99.408 | ug/l | | 100 |
| 69) o-Xylene | 11.956 | 106 | 210499 | 50.198 | ug/l | | 100 |
| 70) Styrene | 11.968 | 104 | 351858 | 50.222 | ug/l | | 100 |
| 71) Bromoform | 12.133 | 173 | 63198 | 50.171 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 566646 | 49.914 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 138830 | 52.254 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 92349 | 50.115 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 122382 | 91.339 | ug/l | # | 100 |
| 77) Bromobenzene | 12.529 | 156 | 123256 | 49.842 | ug/l | | 100 |
| 78) n-propylbenzene | 12.596 | 91 | 687319 | 50.251 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 382511 | 49.707 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 463155 | 50.279 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 33360 | 51.816 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 397958 | 49.848 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 418182 | 50.127 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 459974 | 50.907 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 610142 | 50.301 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 509445 | 50.941 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 242502 | 49.677 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 238266 | 49.281 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.614 | 91 | 487742 | 51.461 | ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 99360 | 50.134 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 208977 | 49.409 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 14740 | 49.268 | ug/l | | 100 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 131852 | 51.538 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 85490 | 51.117 | ug/l | | 100 |
| 95) Naphthalene | 15.145 | 128 | 229979 | 52.434 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 112349 | 51.976 | ug/l | | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

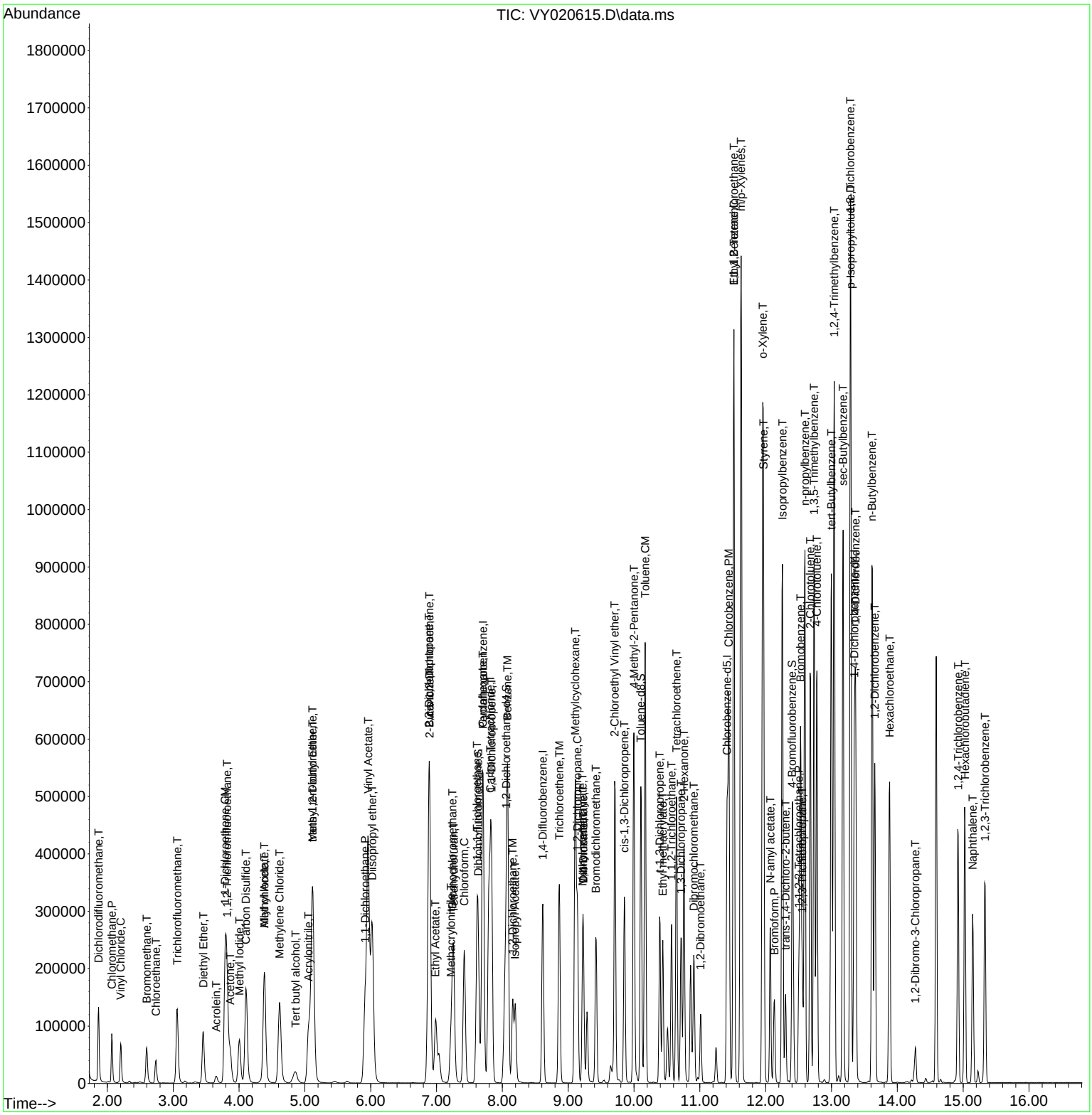
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

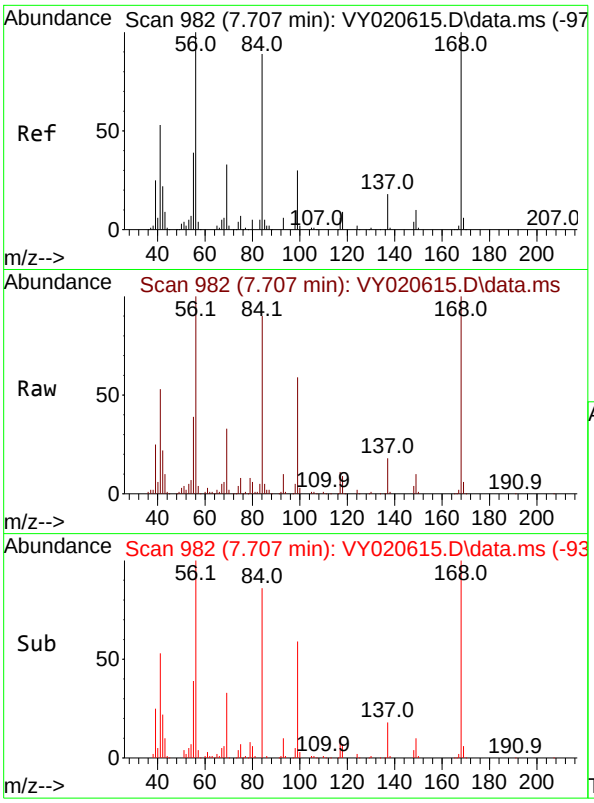
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020615.D
Acq On : 17 Dec 2024 10:51
Operator : SY/MD
Sample : VSTDICCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Dec 18 04:52:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration



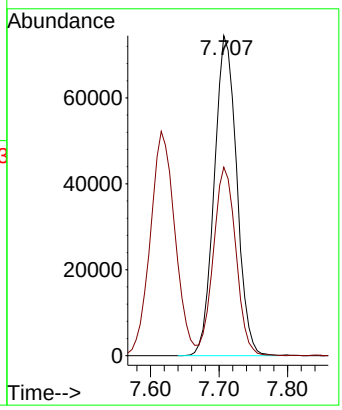


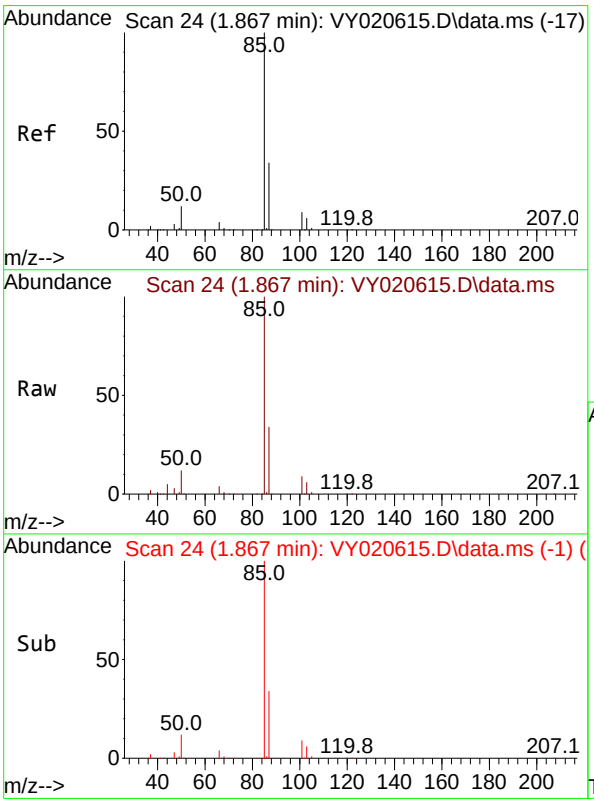

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:168 Resp: 169292

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.8 | 47.0 | 70.6 |

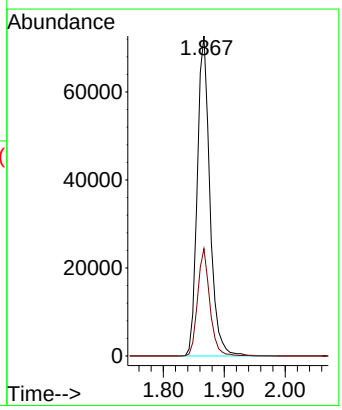


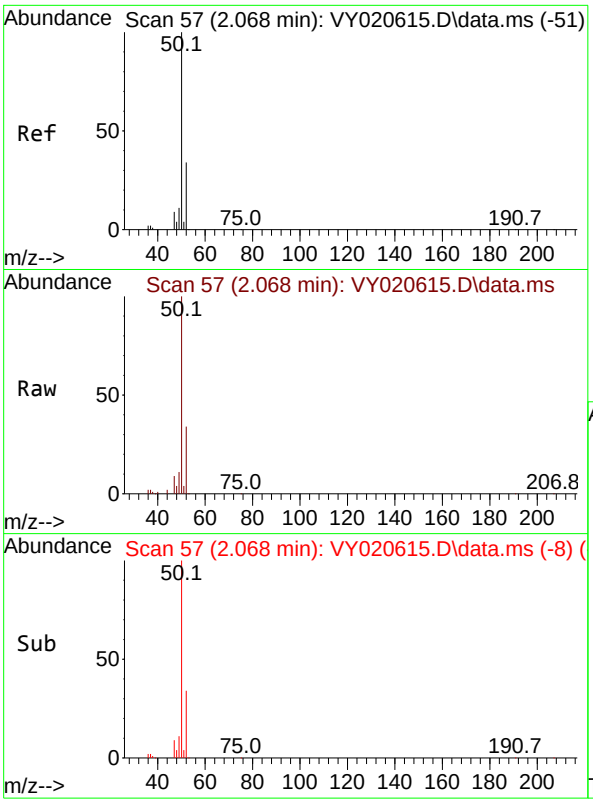




#2
Dichlorodifluoromethane
Concen: 49.416 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 85 Resp: 104493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.5 | 16.8 | 50.3 |



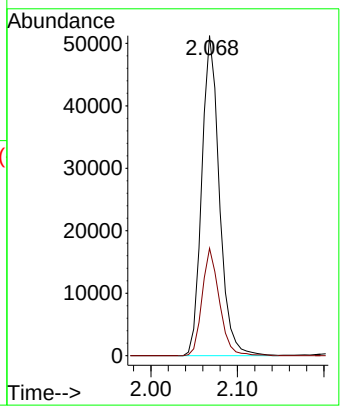


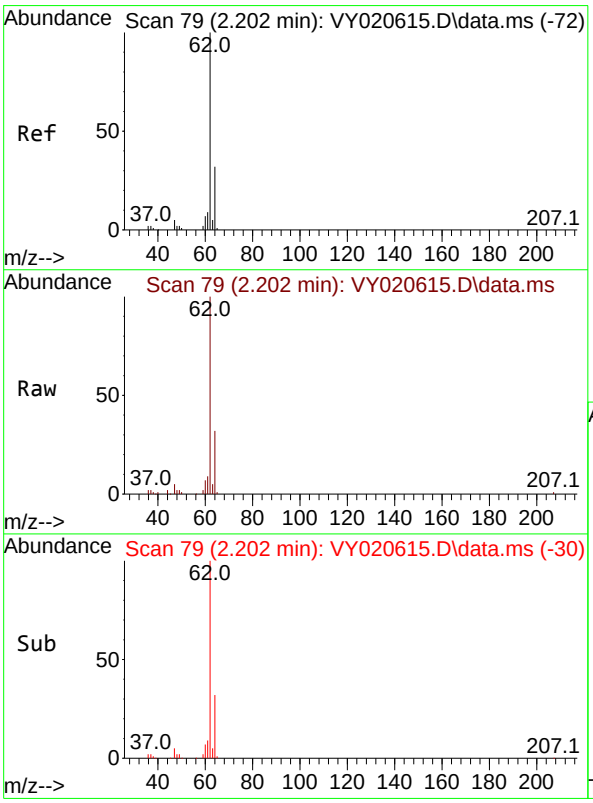

#3
Chloromethane
Concen: 46.229 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 50 Resp: 72429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.5 | 26.8 | 40.2 |

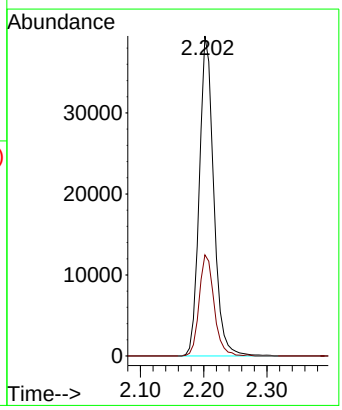


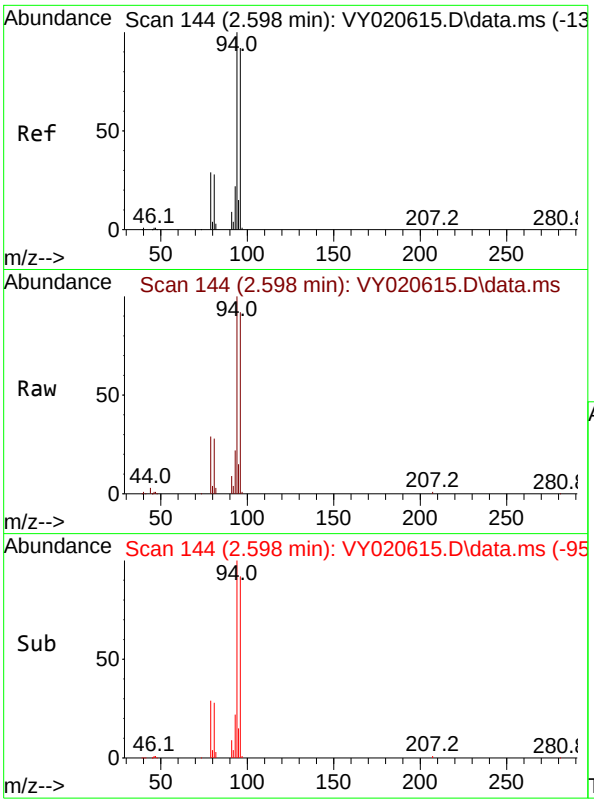




#4
Vinyl Chloride
Concen: 43.031 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 62 Resp: 62750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.6 | 25.3 | 37.9 |



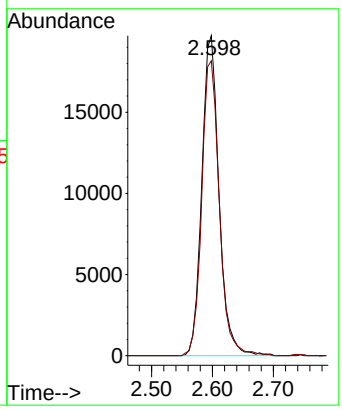


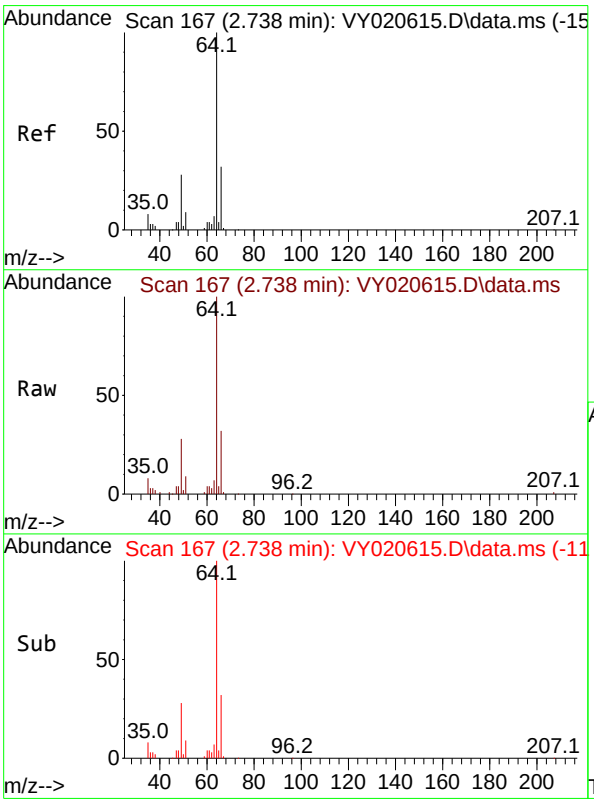

#5
Bromomethane
Concen: 41.303 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 94 Resp: 38716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.2 | 73.8 | 110.6 |

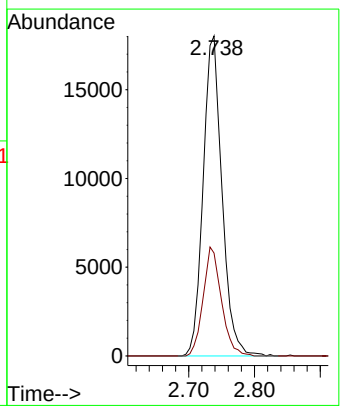


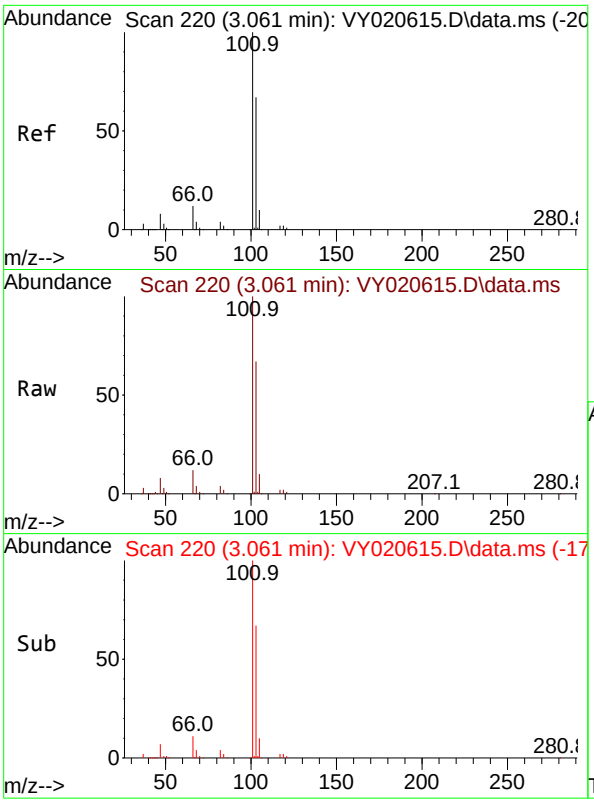




#6
Chloroethane
Concen: 39.890 ug/l
RT: 2.738 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 64 Resp: 35946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 25.8 | 38.6 |



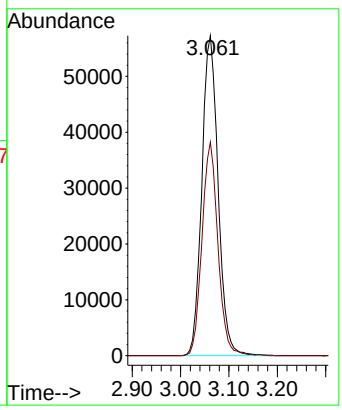


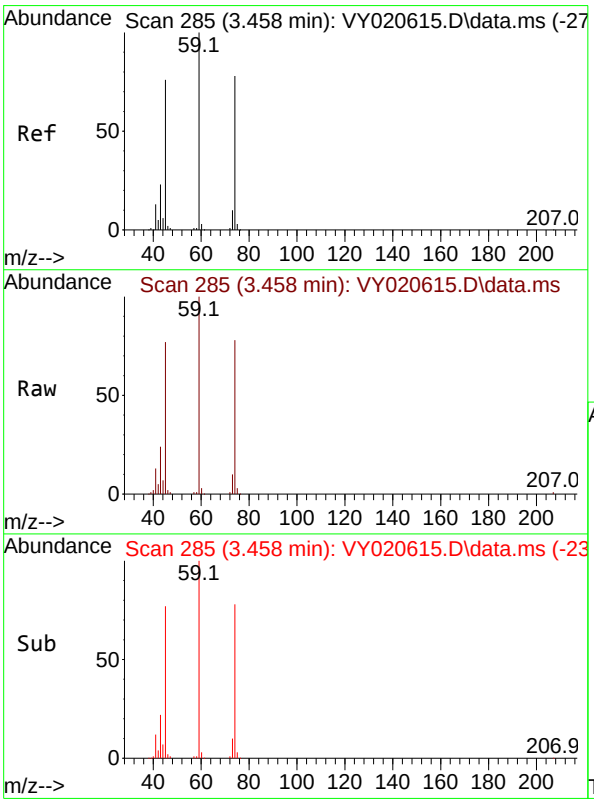

#7
Trichlorofluoromethane
Concen: 43.913 ug/l
RT: 3.061 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 133990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.7 | 53.4 | 80.0 |

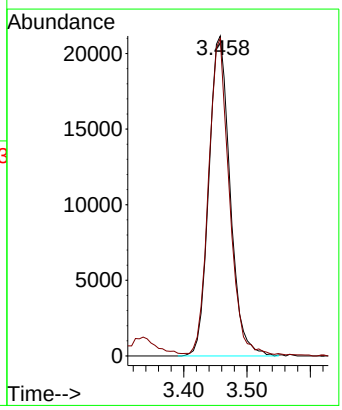


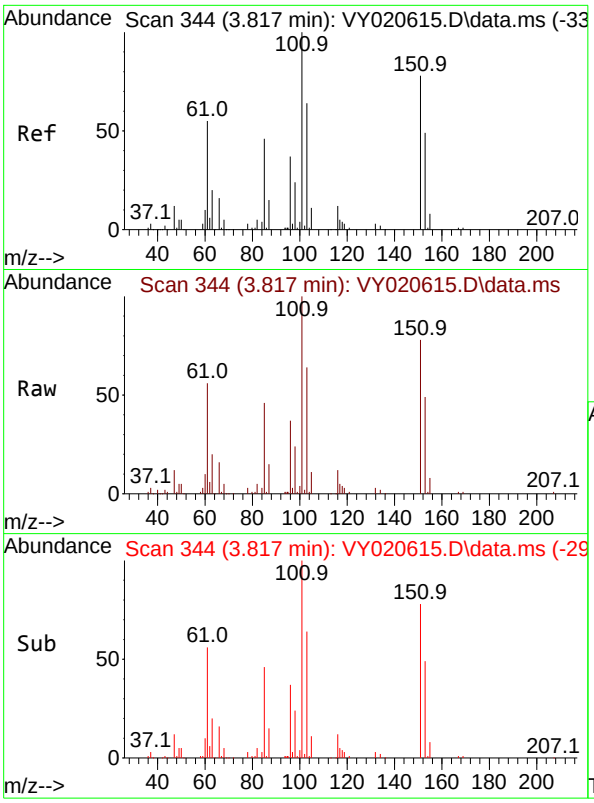




#8
Diethyl Ether
Concen: 45.993 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 74 Resp: 49218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.1 | 49.0 | 147.2 |



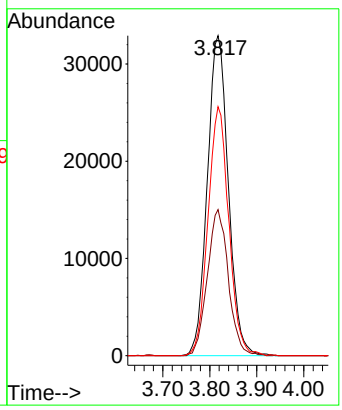


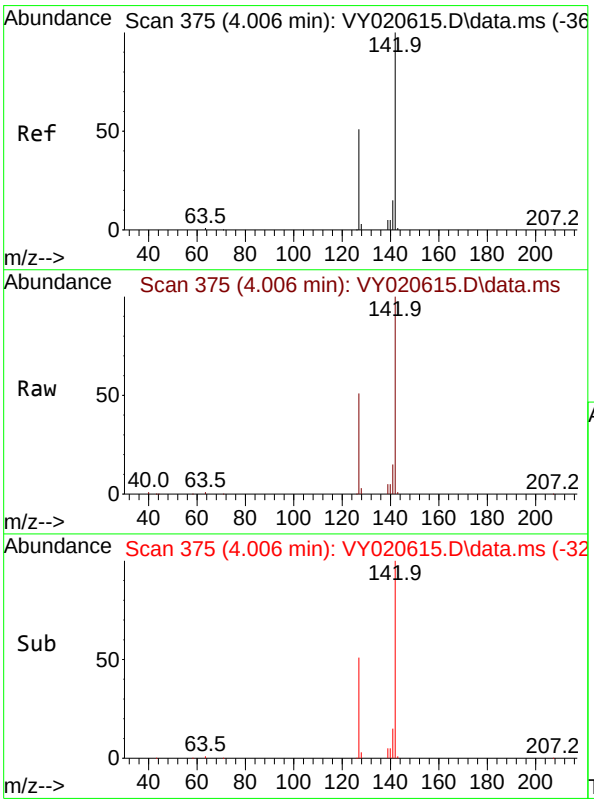

#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.710 ug/l
RT: 3.817 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 102158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.7 | 36.6 | 54.8 |
| 151 | 76.9 | 61.5 | 92.3 |

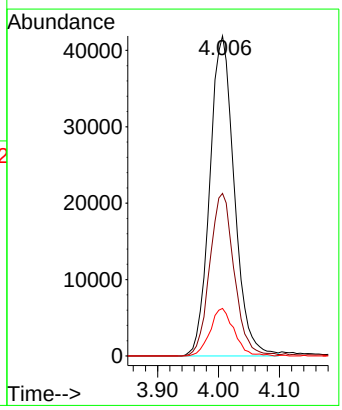


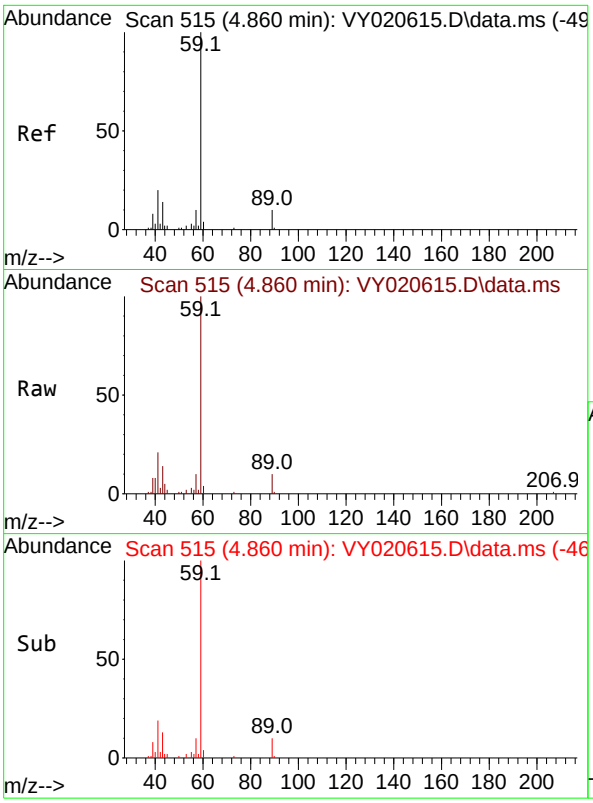




#10
Methyl Iodide
Concen: 48.135 ug/l
RT: 4.006 min Scan# 375
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:142 Resp: 117209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 50.8 | 40.6 | 61.0 |
| 141 | 14.6 | 11.7 | 17.5 |



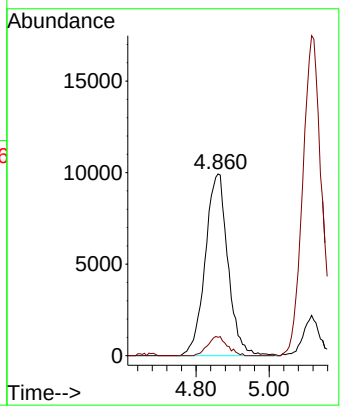


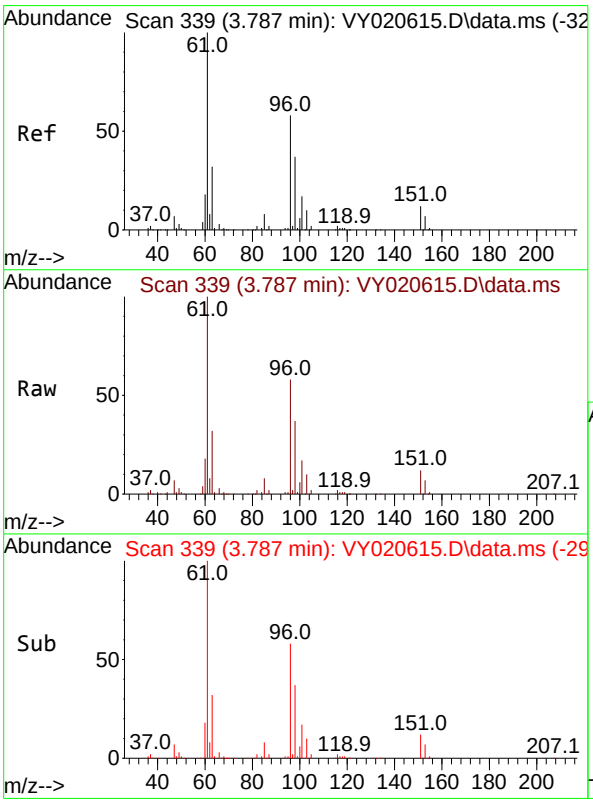

#11
Tert butyl alcohol
Concen: 214.068 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 59 Resp: 42756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.2 | 7.4 | 11.0 |

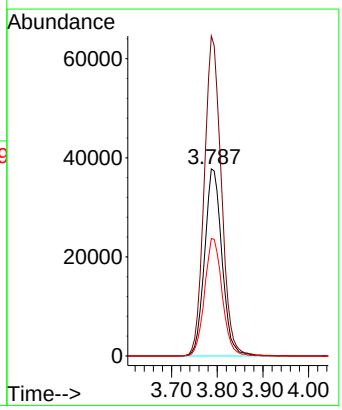


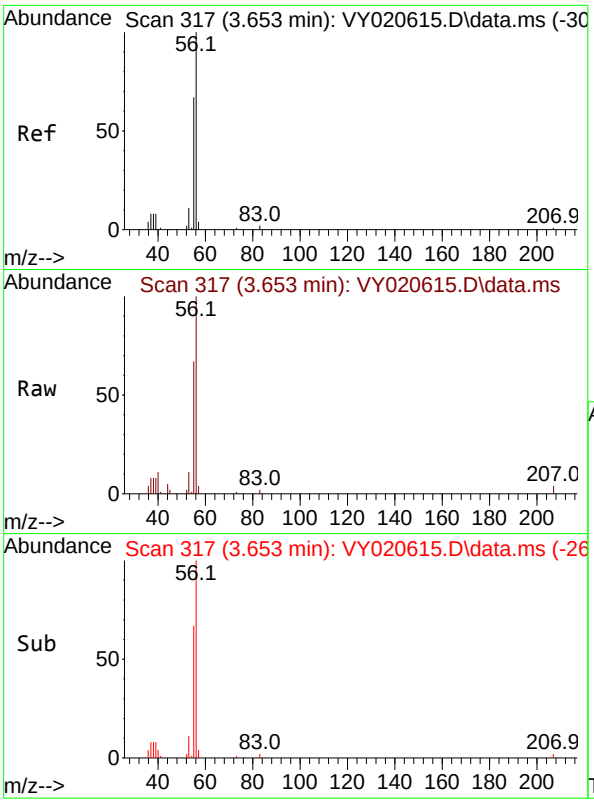




#12
1,1-Dichloroethene
Concen: 47.016 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 96 Resp: 99773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 171.1 | 136.9 | 205.3 |
| 98 | 62.8 | 50.2 | 75.4 |



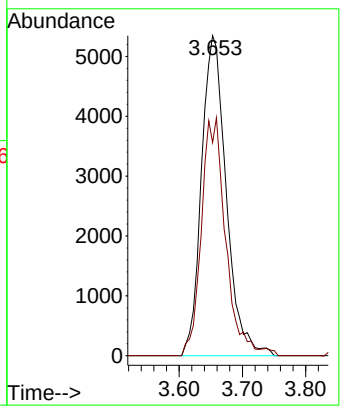


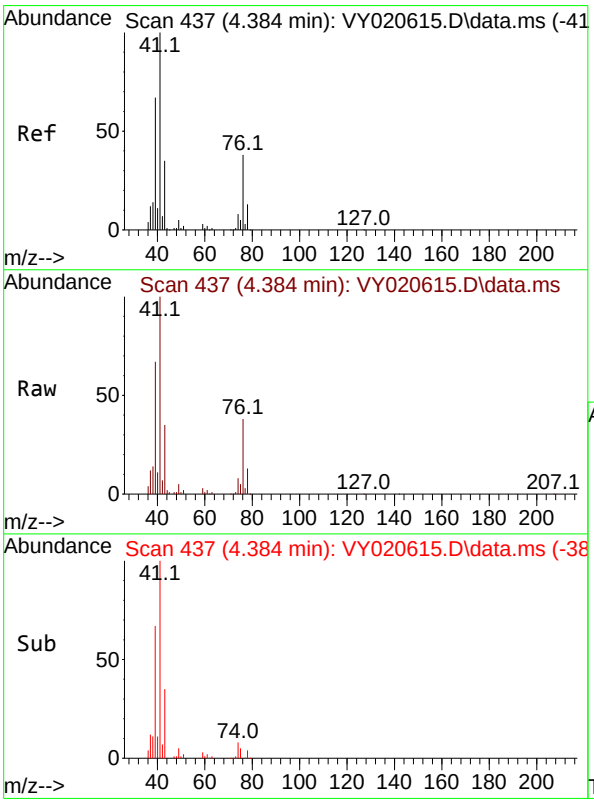

#13
Acrolein
Concen: 166.258 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 14576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.9 | 57.5 | 86.3 |

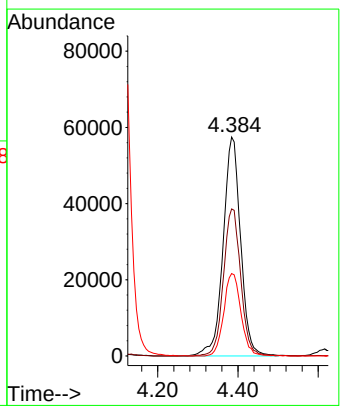


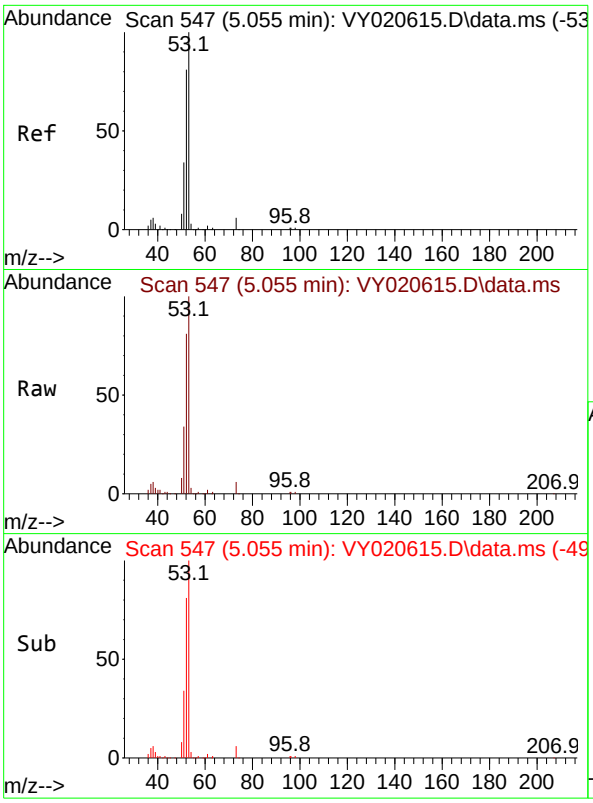




#14
Allyl chloride
Concen: 46.780 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 41 Resp: 173951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.2 | 53.0 | 79.4 |
| 76 | 36.9 | 29.5 | 44.3 |



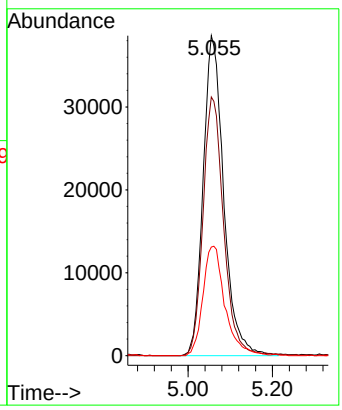


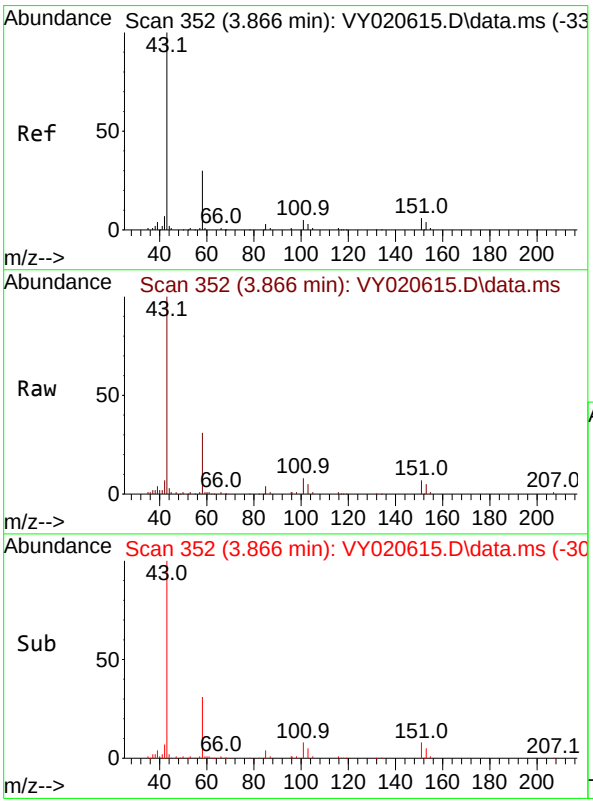

#15
Acrylonitrile
Concen: 255.615 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 53 Resp: 130861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.6 | 64.5 | 96.7 |
| 51 | 36.7 | 29.4 | 44.0 |

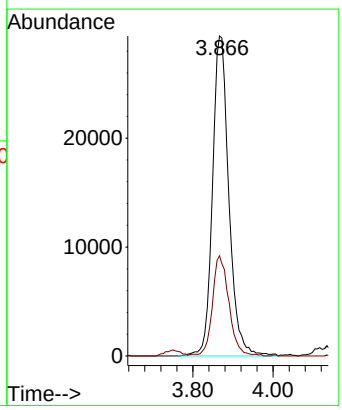


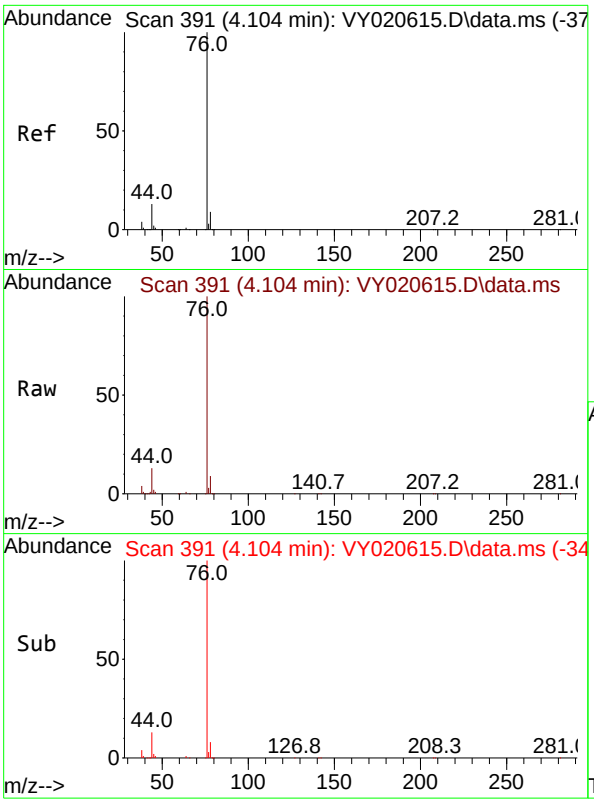




#16
Acetone
Concen: 225.255 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 83206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.3 | 25.0 | 37.6 |



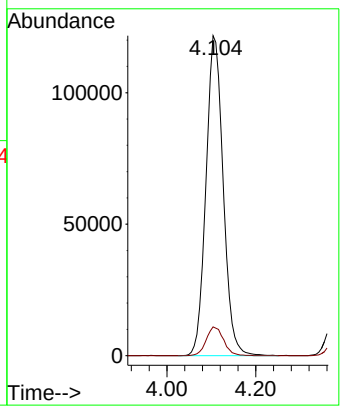


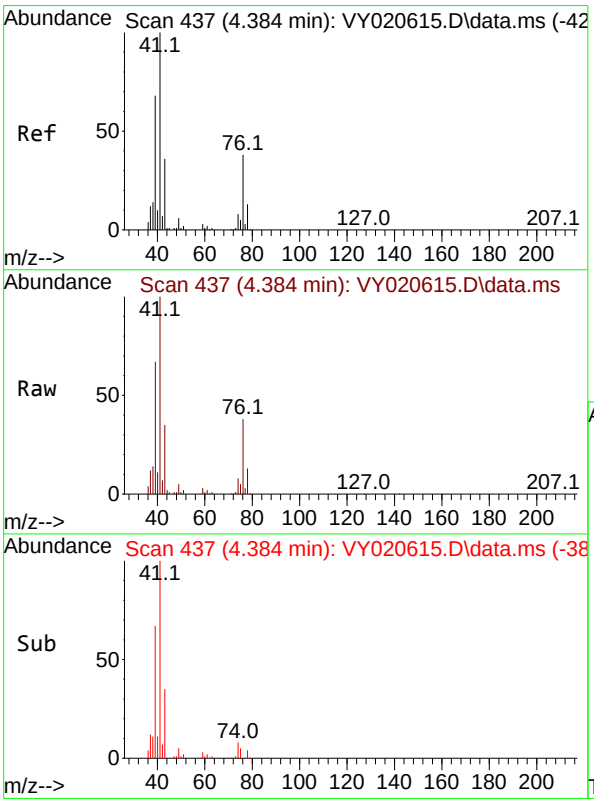

#17
Carbon Disulfide
Concen: 47.529 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 328309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.2 | 10.8 |

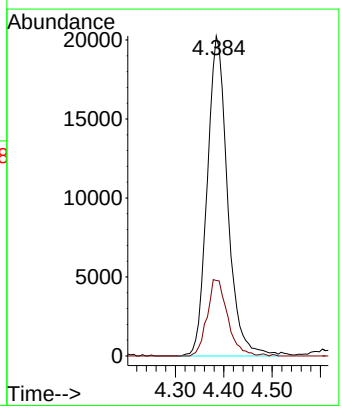


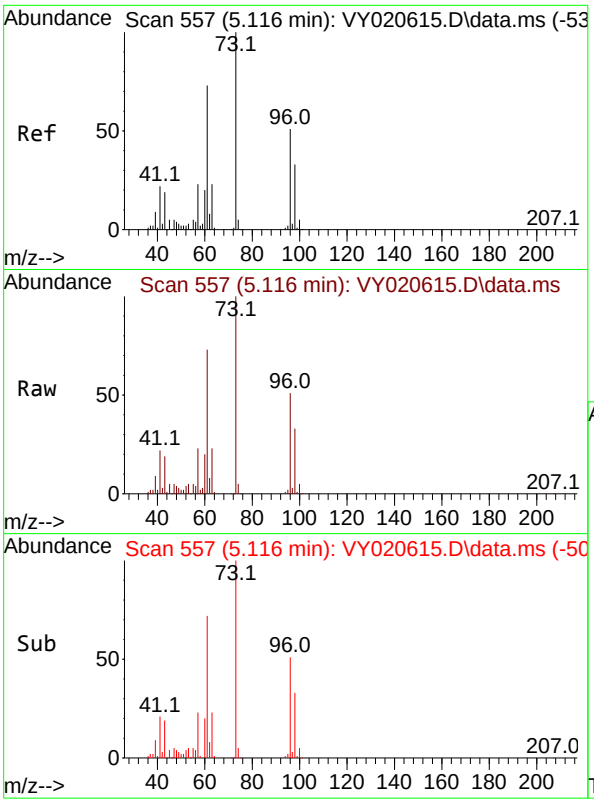




#18
Methyl Acetate
Concen: 46.948 ug/l
RT: 4.384 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 59224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.0 | 19.2 | 28.8 |



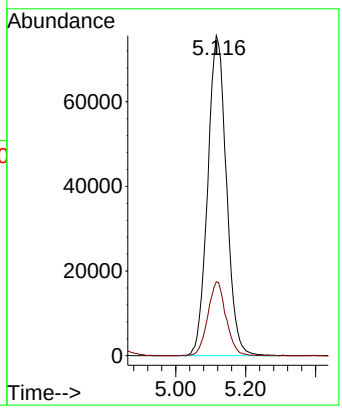


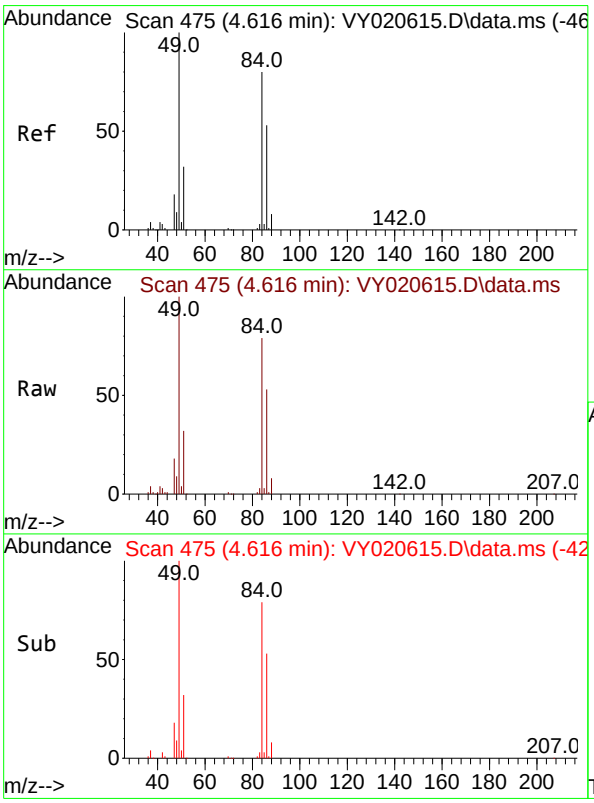

#19
Methyl tert-butyl Ether
Concen: 51.414 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 73 Resp: 281609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.1 | 18.5 | 27.7 |

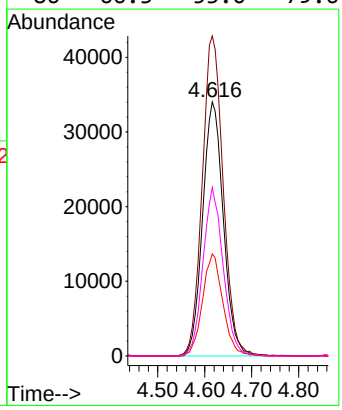


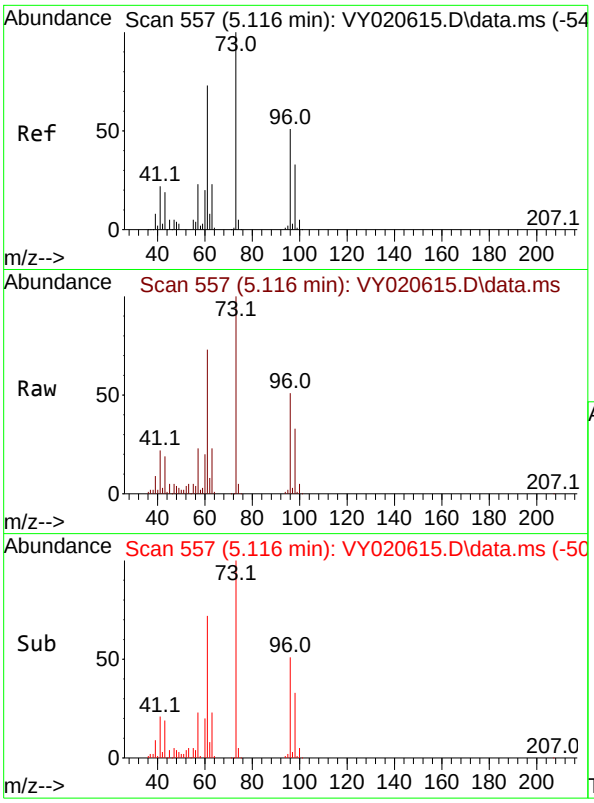




#20
Methylene Chloride
Concen: 45.319 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 84 Resp: 104472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.9 | 100.7 | 151.1 |
| 51 | 40.2 | 32.2 | 48.2 |
| 86 | 66.3 | 53.0 | 79.6 |



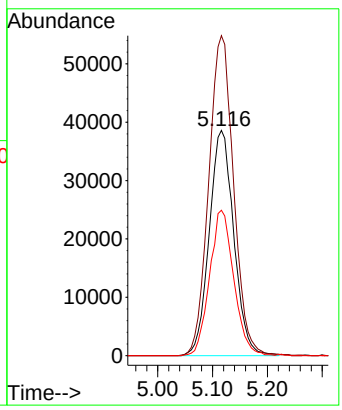


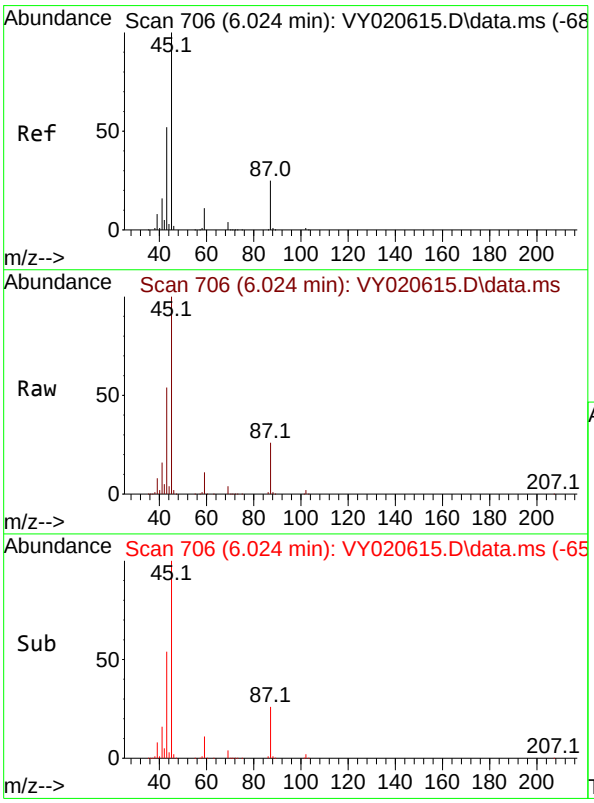

#21
trans-1,2-Dichloroethene
Concen: 50.488 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 120184

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.1 | 113.7 | 170.5 |
| 98 | 64.6 | 51.7 | 77.5 |

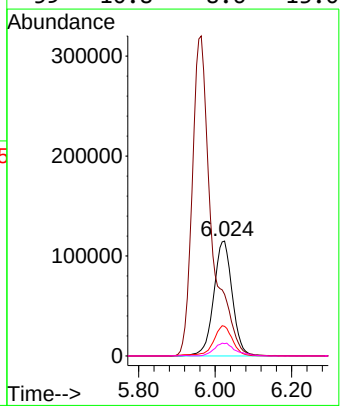


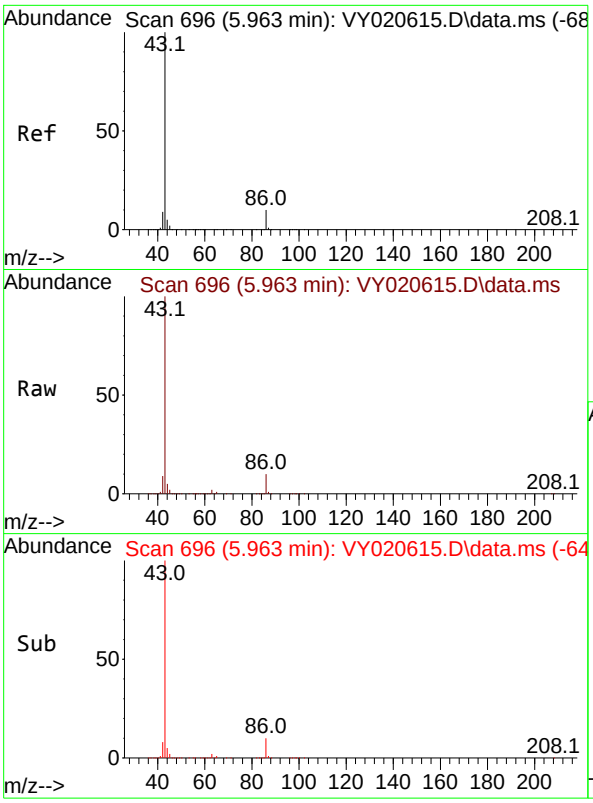




#22
Diisopropyl ether
Concen: 51.282 ug/l
RT: 6.024 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 45 Resp: 387073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 53.3 | 42.6 | 64.0 |
| 87 | 25.8 | 20.6 | 31.0 |
| 59 | 10.8 | 8.6 | 13.0 |



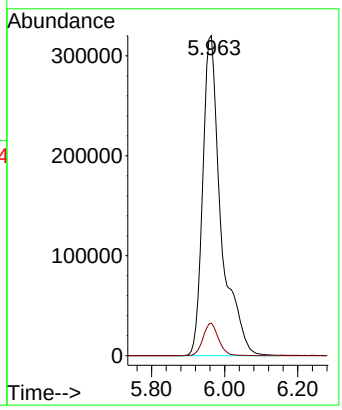


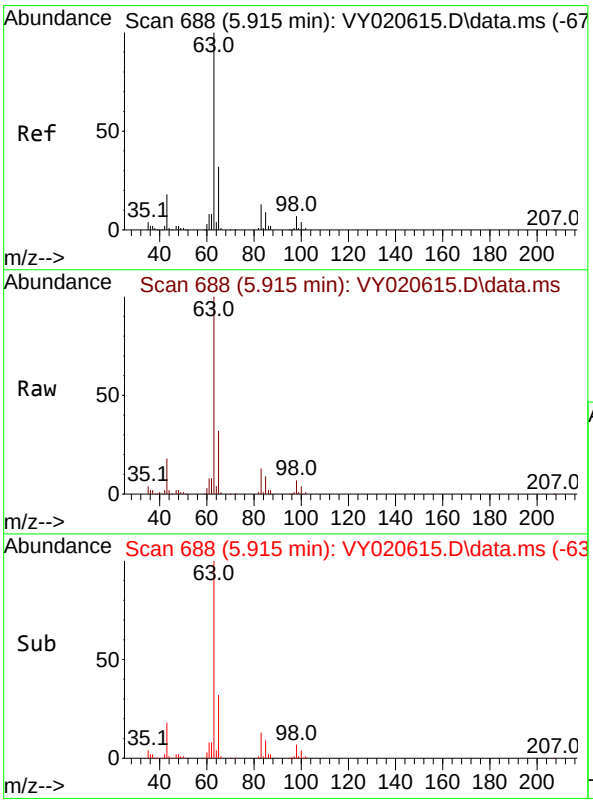

#23
Vinyl Acetate
Concen: 260.208 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 1112368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.1 | 8.1 | 12.1 |

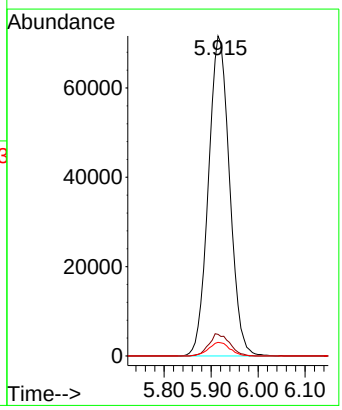


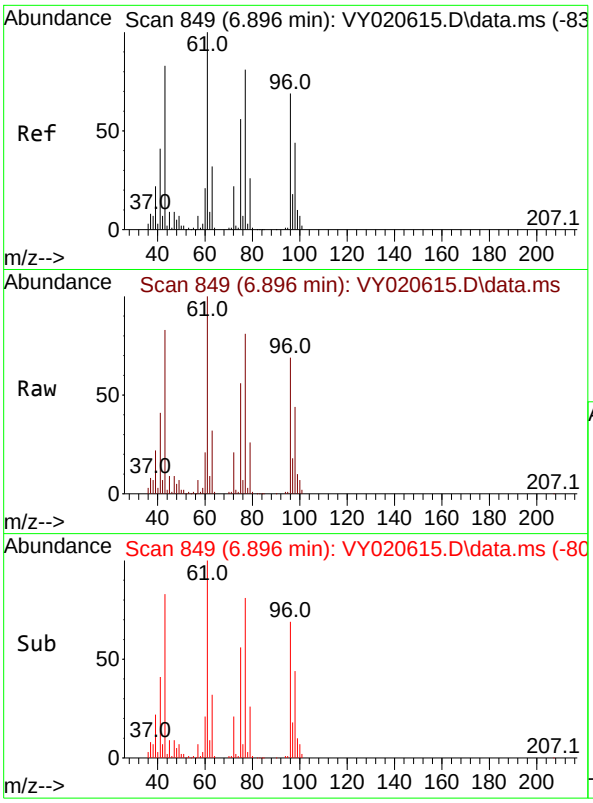




#24
1,1-Dichloroethane
Concen: 50.635 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 63 Resp: 223898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.7 | 3.4 | 10.1 |
| 100 | 4.3 | 2.1 | 6.5 |



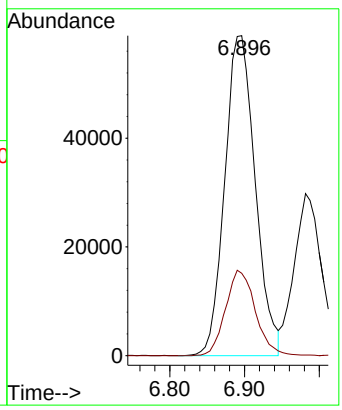


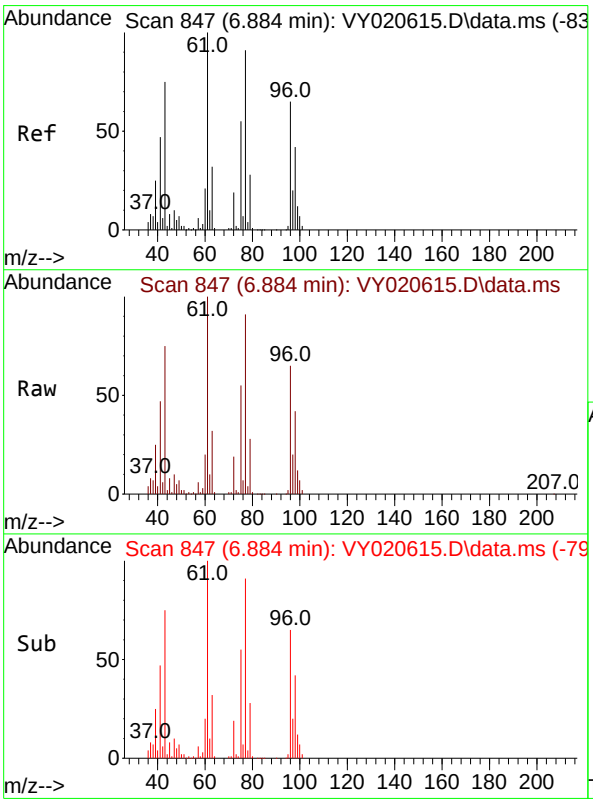

#25
2-Butanone
Concen: 242.593 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 167158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.8 | 20.6 | 31.0 |

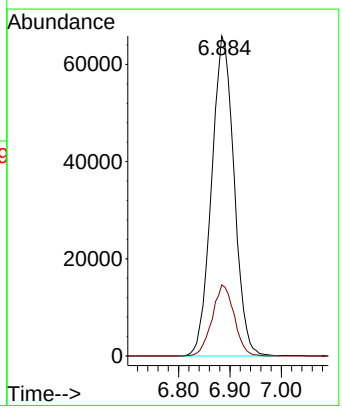


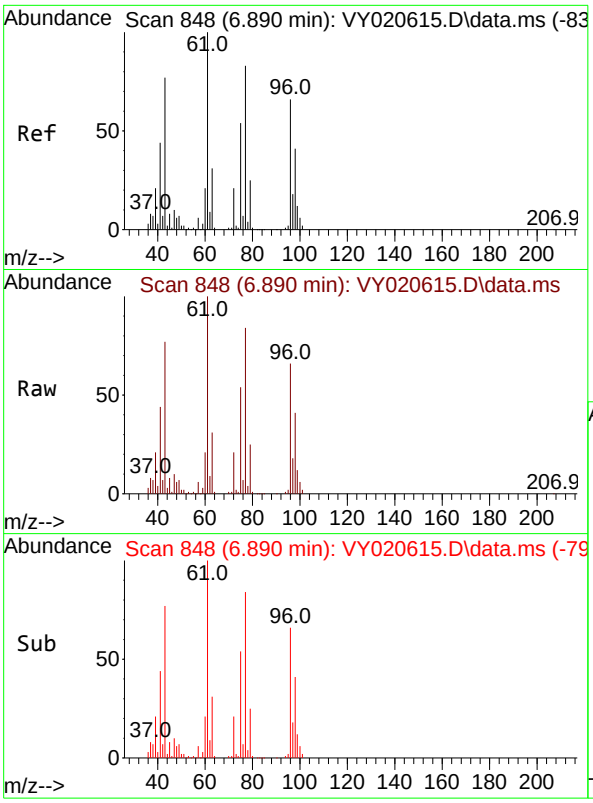




#26
2,2-Dichloropropane
Concen: 47.951 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 77 Resp: 200438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.7 | 10.9 | 32.6 |



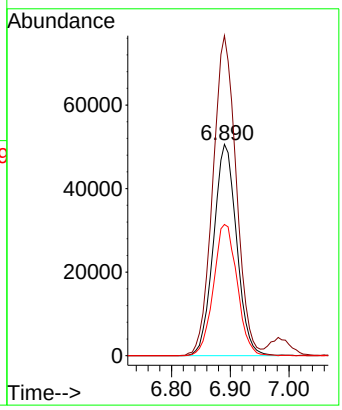


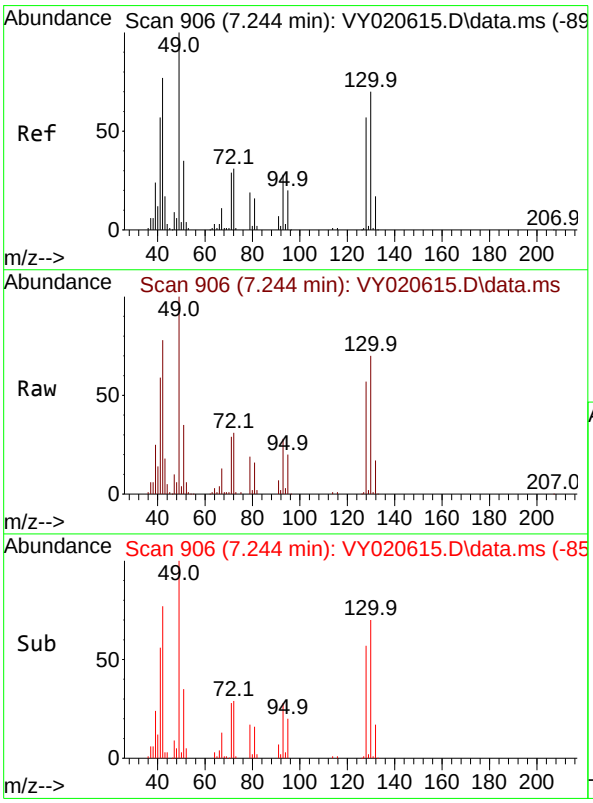

#27
cis-1,2-Dichloroethene
Concen: 50.490 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 138280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.1 | 0.0 | 306.2 |
| 98 | 63.6 | 0.0 | 127.2 |

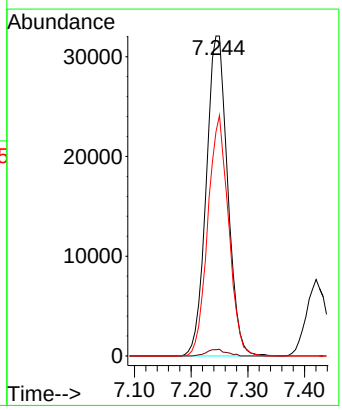


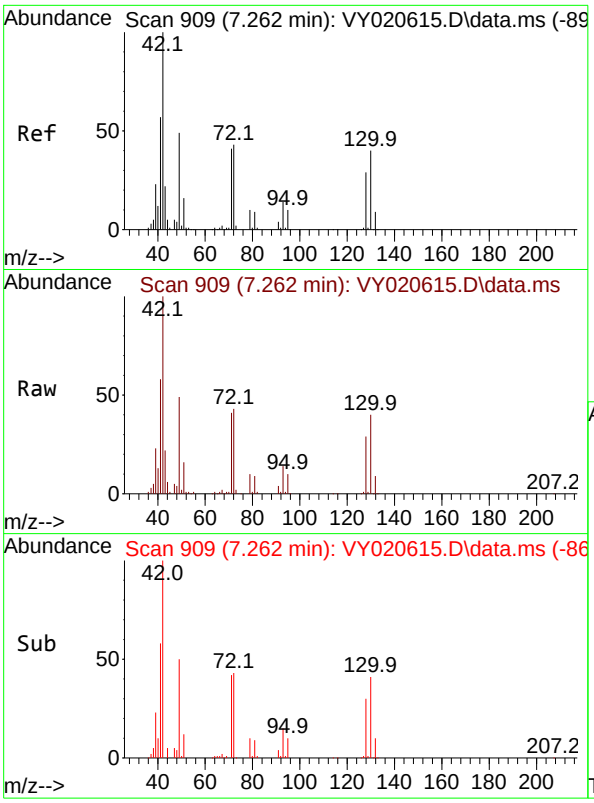




#28
Bromochloromethane
Concen: 56.199 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 49 Resp: 83821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.8 |
| 130 | 72.9 | 58.3 | 87.5 |



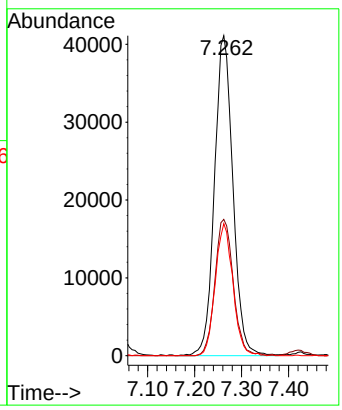


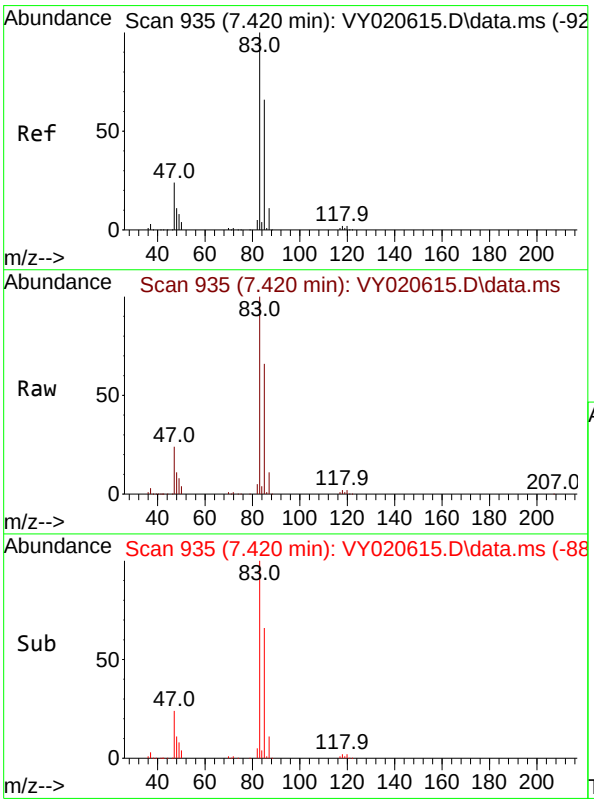

#29
Tetrahydrofuran
Concen: 258.011 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 42 Resp: 112230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.5 | 34.0 | 51.0 |
| 71 | 39.5 | 31.6 | 47.4 |

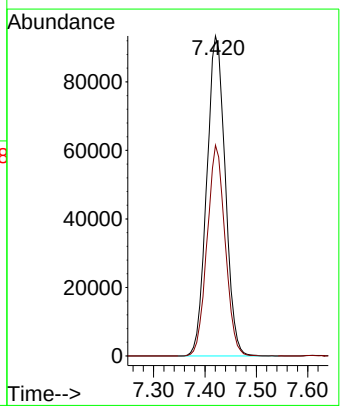


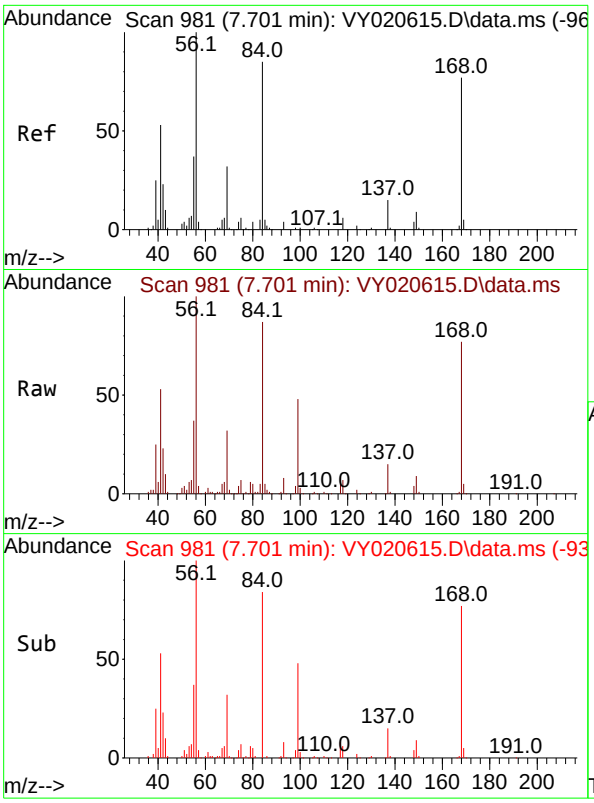




#30
Chloroform
Concen: 52.860 ug/l
RT: 7.420 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 83 Resp: 233357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.9 | 52.7 | 79.1 |



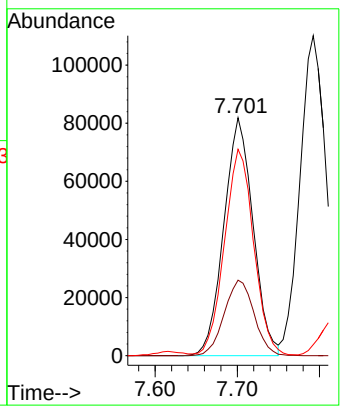


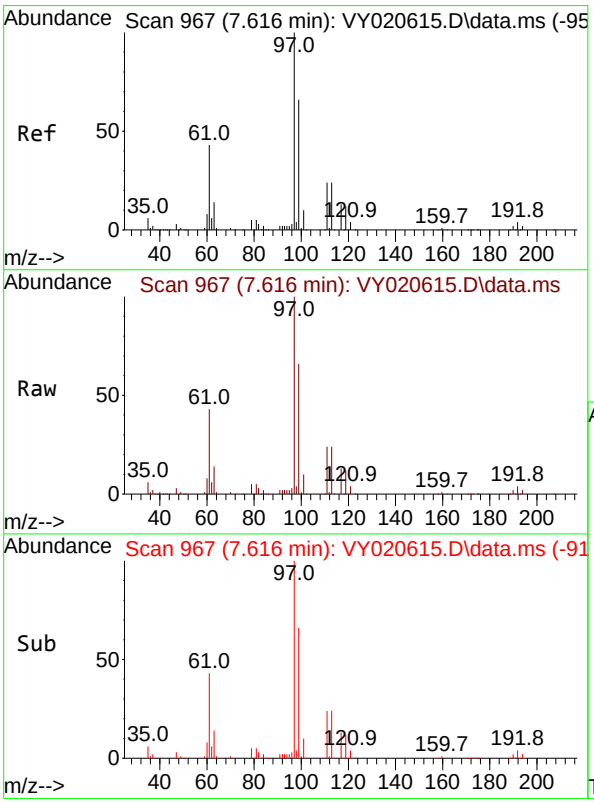

#31
Cyclohexane
Concen: 47.962 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 202782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.7 | 25.4 | 38.0 |
| 84 | 85.4 | 68.3 | 102.5 |

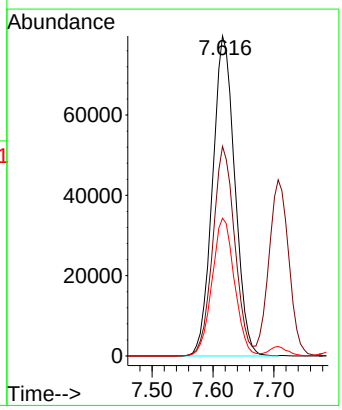


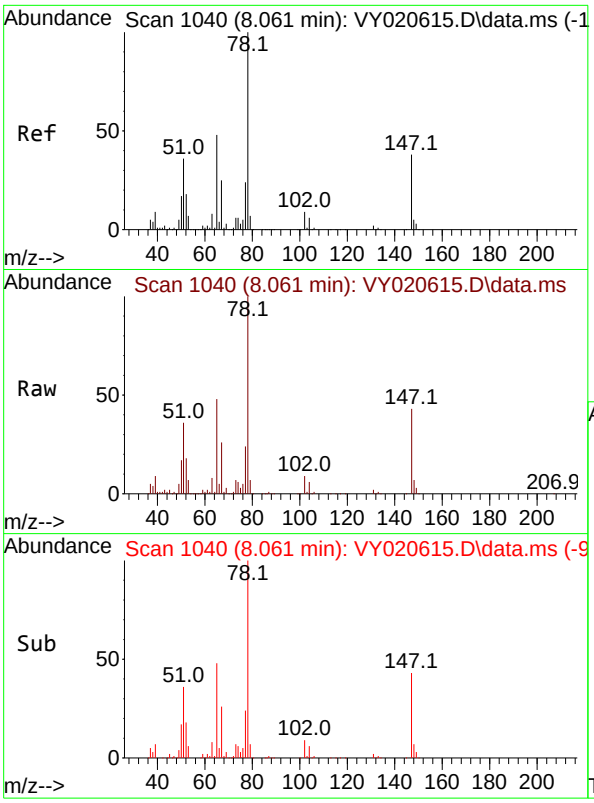




#32
1,1,1-Trichloroethane
Concen: 49.911 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 97 Resp: 202760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 43.4 | 34.7 | 52.1 |



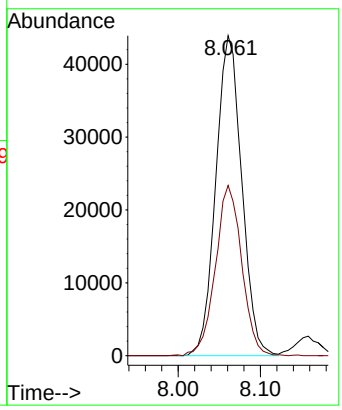


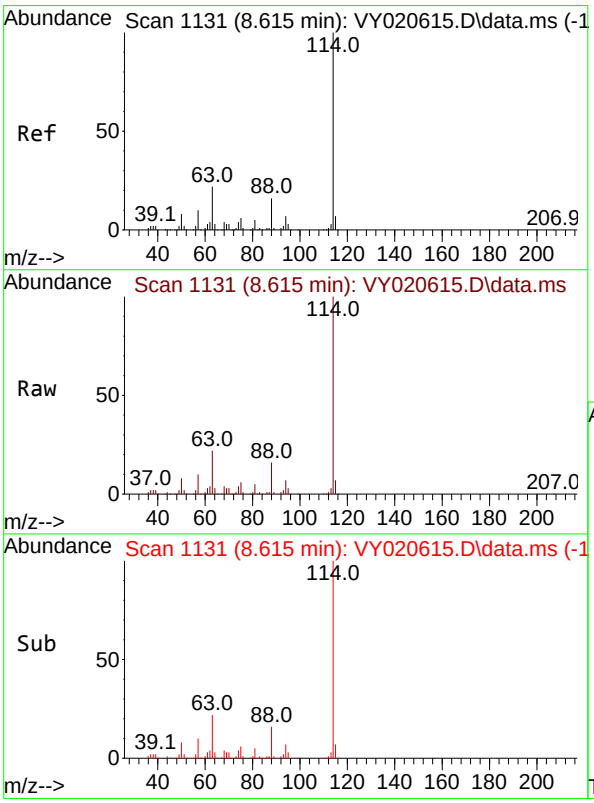

#33
1,2-Dichloroethane-d4
Concen: 51.933 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 65 Resp: 96289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 108.0 |

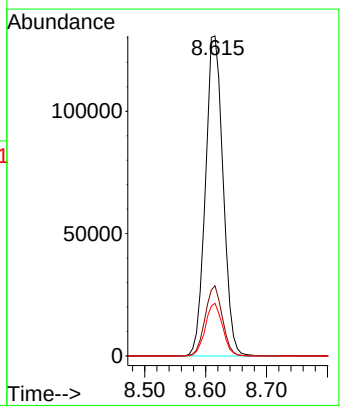


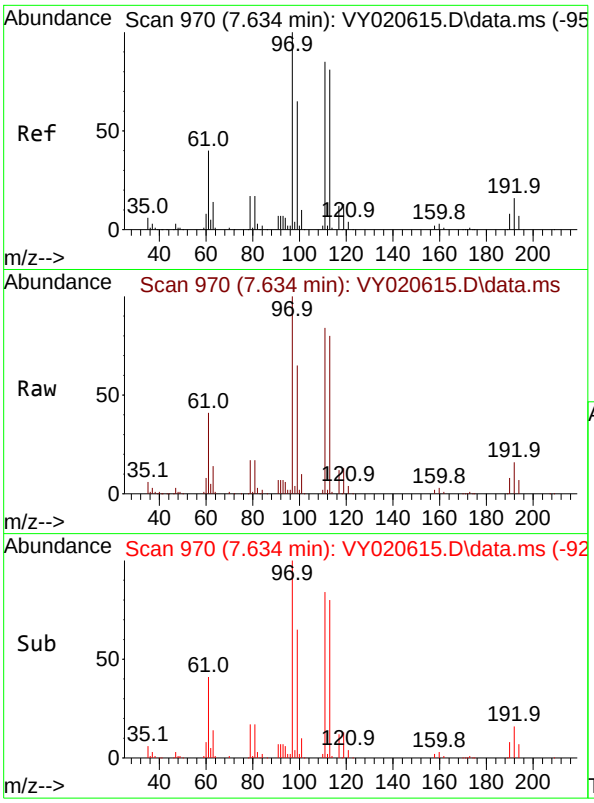




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:114 Resp: 263162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.0 | 0.0 | 44.0 |
| 88 | 16.4 | 0.0 | 32.8 |



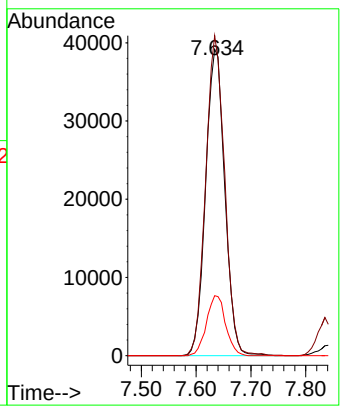


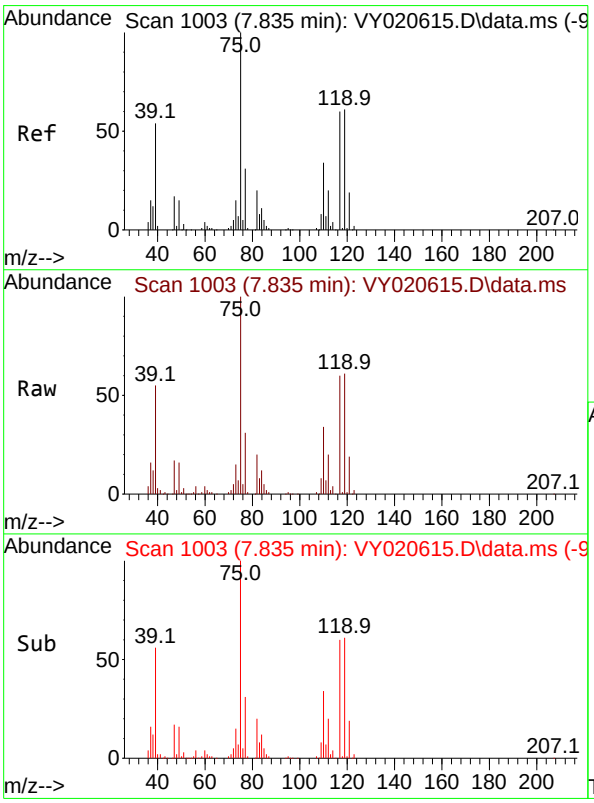

#35
Dibromofluoromethane
Concen: 51.139 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:113 Resp: 94848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.6 | 82.9 | 124.3 |
| 192 | 19.6 | 15.7 | 23.5 |

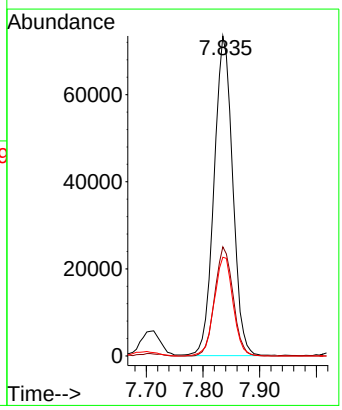


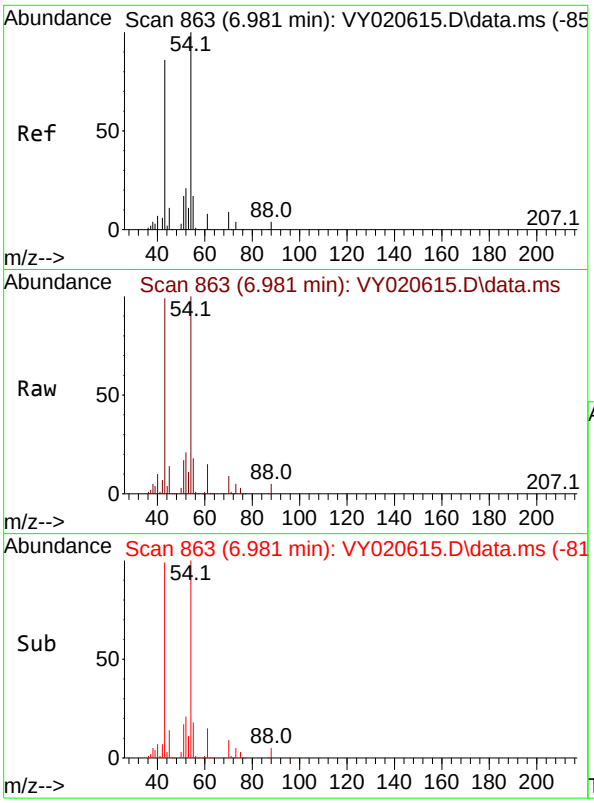




#36
1,1-Dichloropropene
Concen: 49.533 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 75 Resp: 167520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.6 | 16.8 | 50.4 |
| 77 | 31.3 | 25.0 | 37.6 |



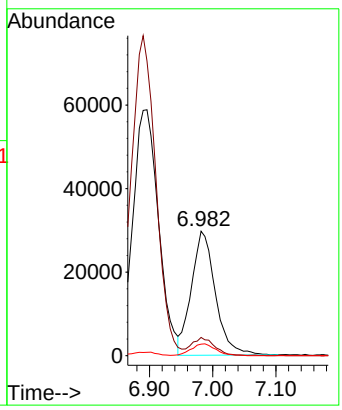


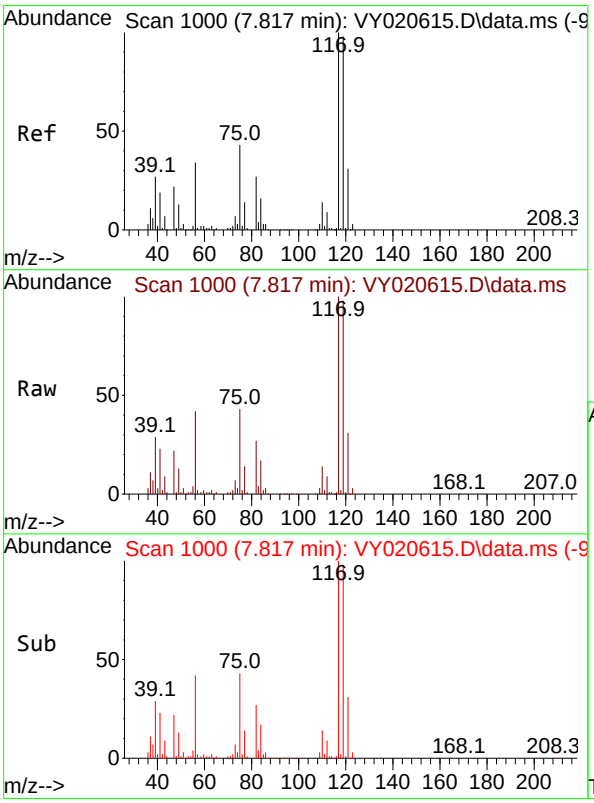

#37
Ethyl Acetate
Concen: 49.275 ug/l
RT: 6.981 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 78387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 11.0 | 16.4 |
| 70 | 9.9 | 7.9 | 11.9 |

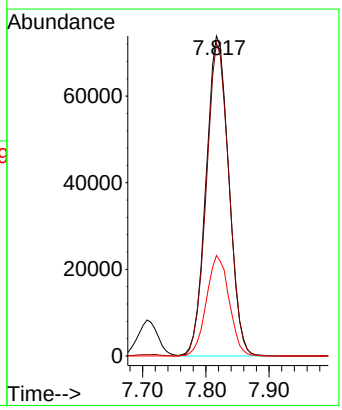


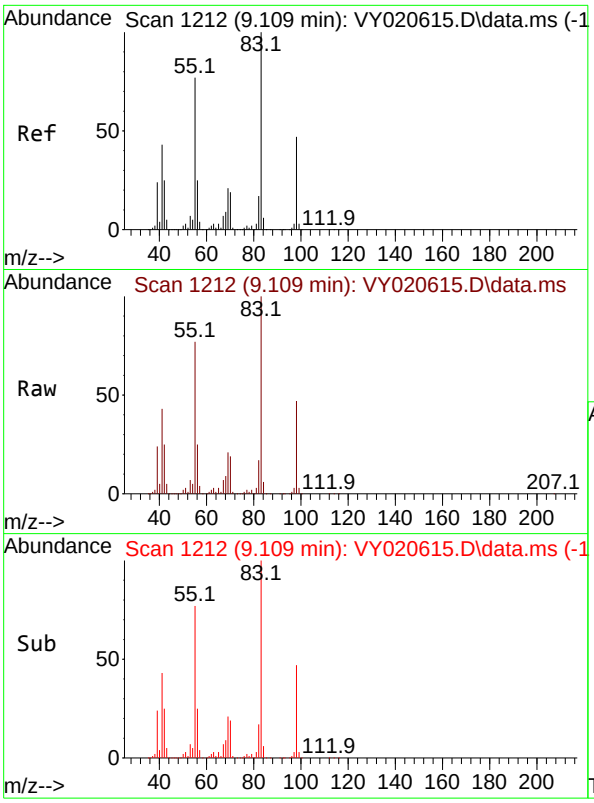




#38
Carbon Tetrachloride
Concen: 49.267 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:117 Resp: 184345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.9 | 78.3 | 117.5 |
| 121 | 31.4 | 25.1 | 37.7 |



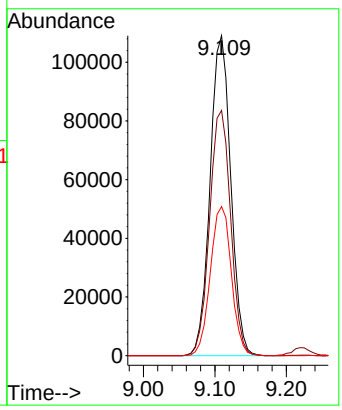


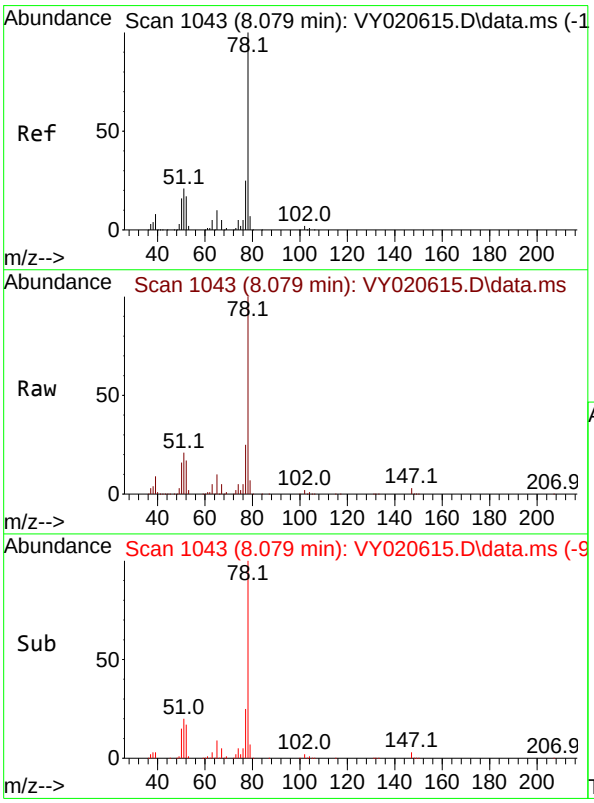

#39
Methylcyclohexane
Concen: 49.696 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 219055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.7 | 61.4 | 92.0 |
| 98 | 46.6 | 37.3 | 55.9 |

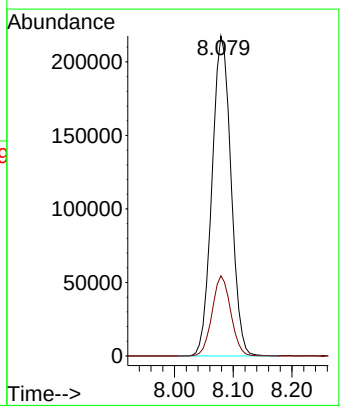


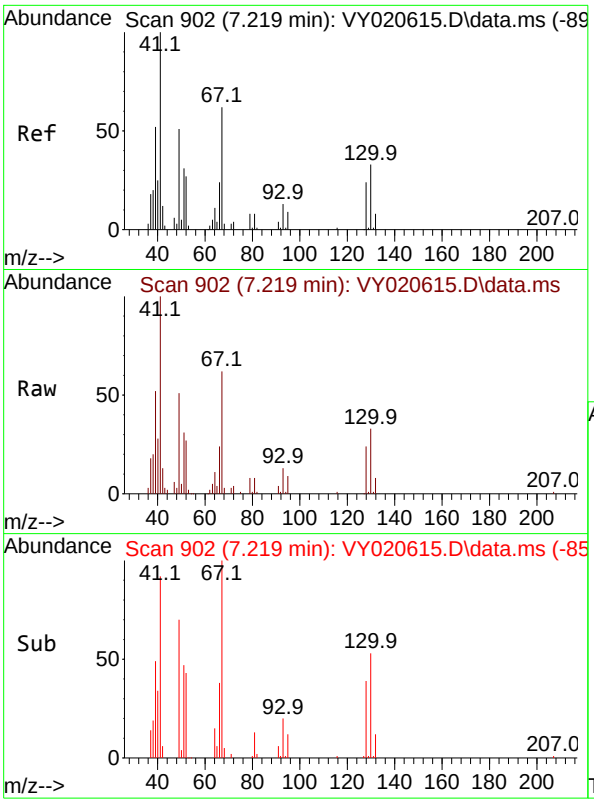




#40
Benzene
Concen: 49.343 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 78 Resp: 489140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.1 | 20.1 | 30.1 |



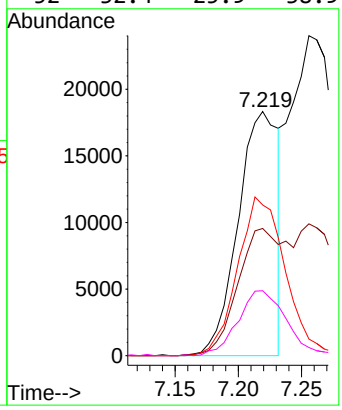


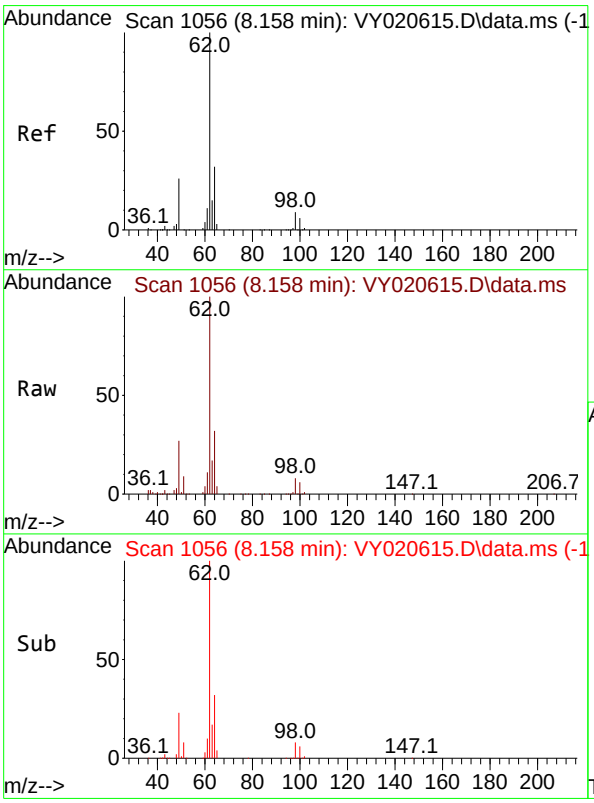

#41
Methacrylonitrile
Concen: 48.191 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 41 Resp: 40529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.0 | 53.6 | 80.4 |
| 67 | 77.5 | 62.0 | 93.0 |
| 52 | 32.4 | 25.9 | 38.9 |

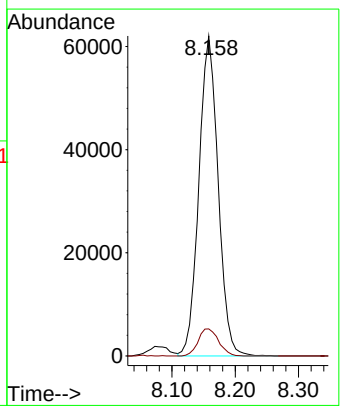


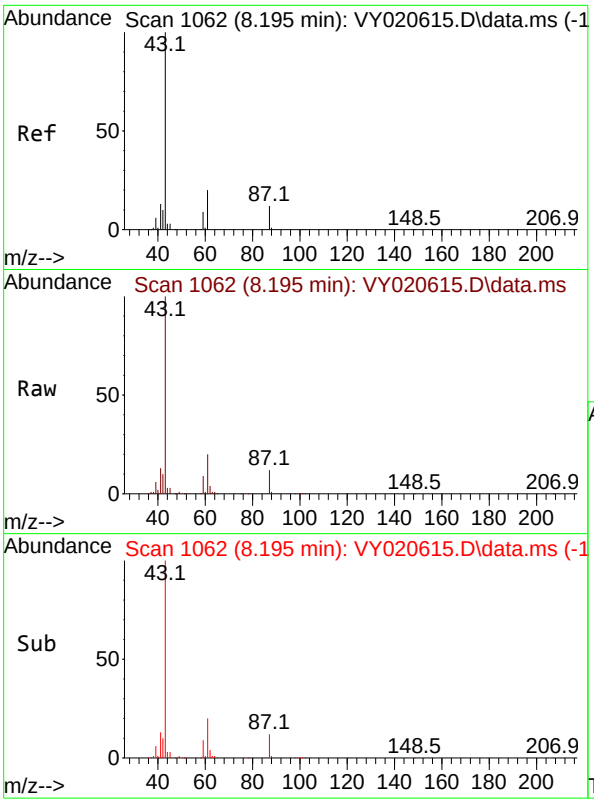




#42
1,2-Dichloroethane
Concen: 50.069 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 62 Resp: 131640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.0 | 0.0 | 18.0 |



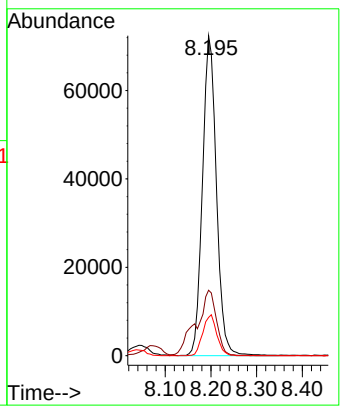


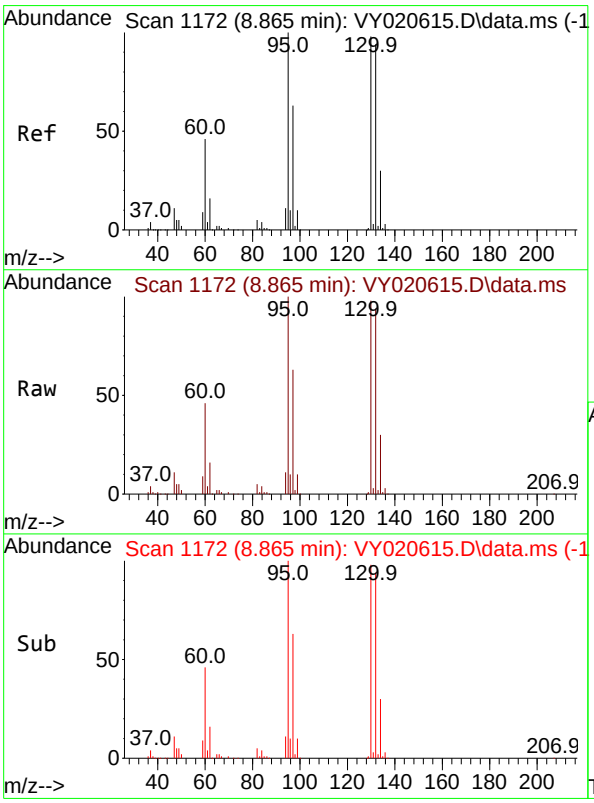

#43
Isopropyl Acetate
Concen: 50.877 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 153226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.7 | 23.8 | 35.6 |
| 87 | 12.8 | 10.2 | 15.4 |

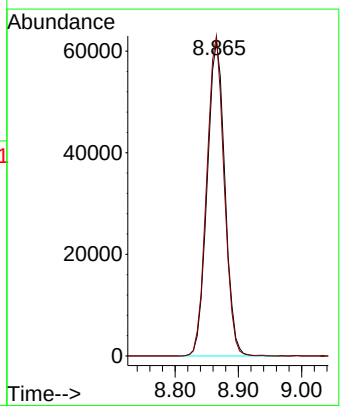


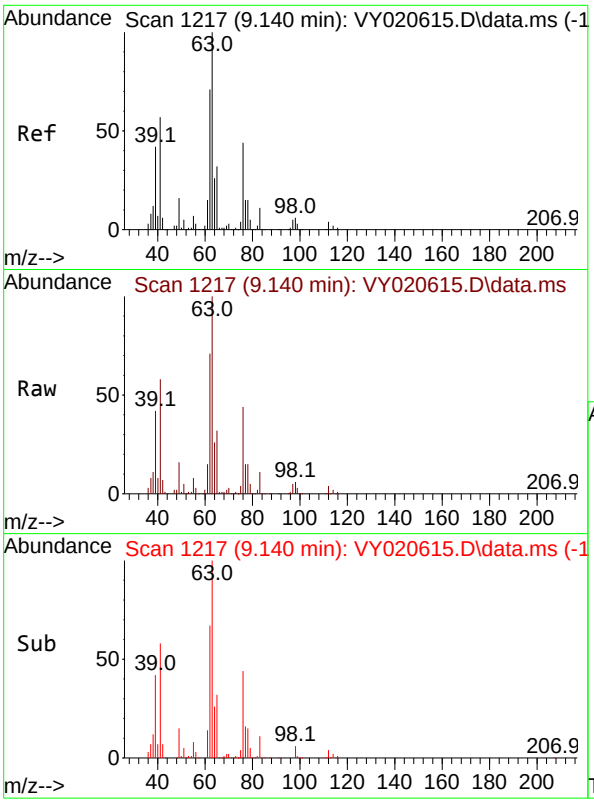




#44
Trichloroethene
Concen: 49.491 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:130 Resp: 120552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 101.6 | 0.0 | 203.2 |



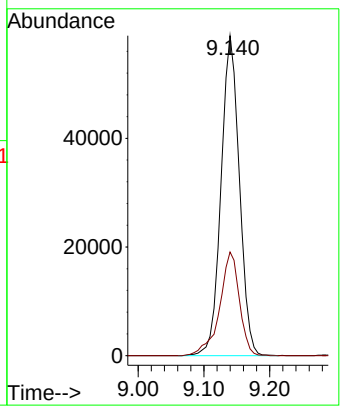


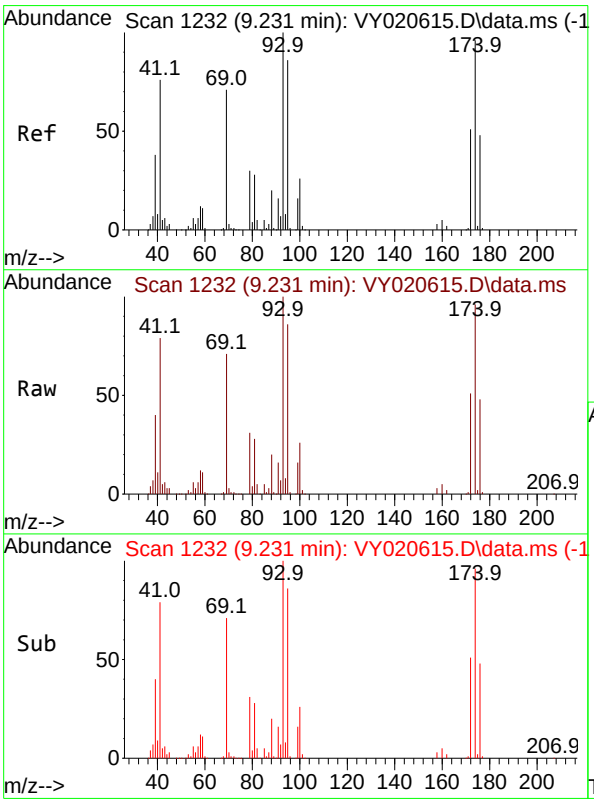

#45
1,2-Dichloropropane
Concen: 49.313 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 63 Resp: 114250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.4 | 25.9 | 38.9 |

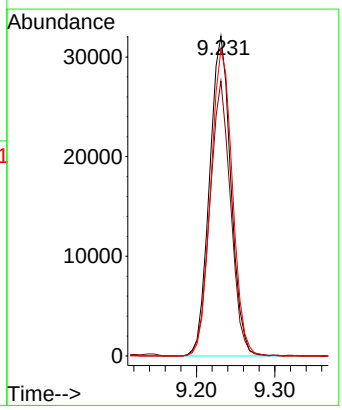


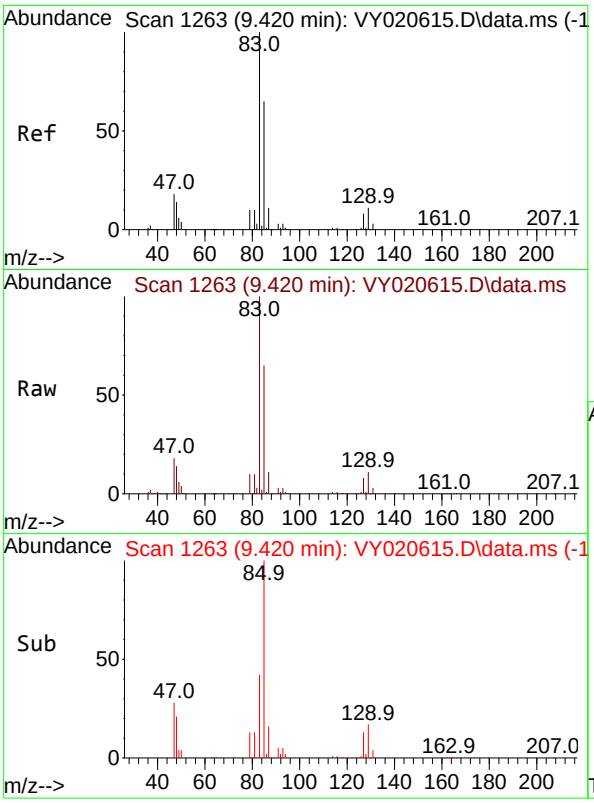




#46
Dibromomethane
Concen: 49.642 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 93 Resp: 60782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.4 | 66.7 | 100.1 |
| 174 | 97.2 | 77.8 | 116.6 |



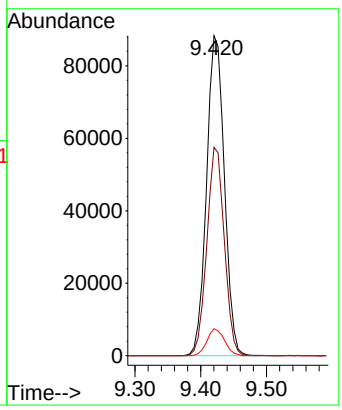


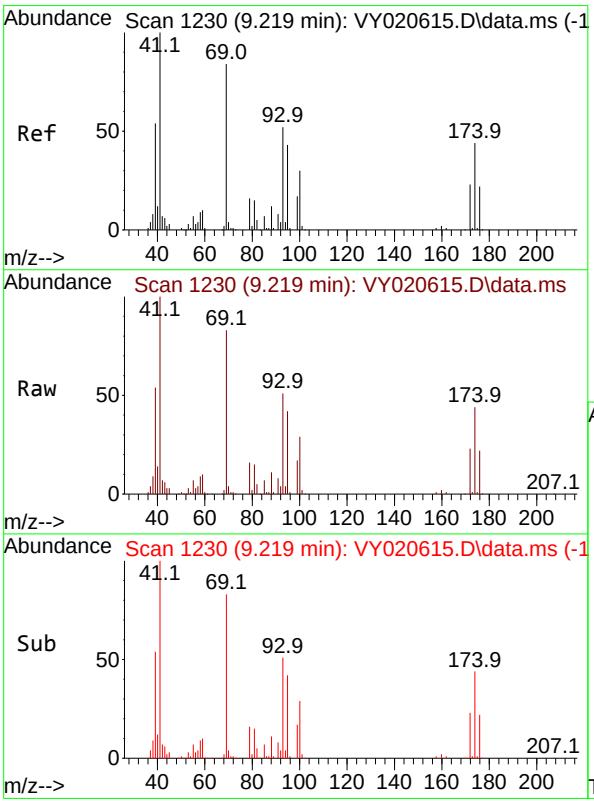

#47
Bromodichloromethane
Concen: 50.291 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 166333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 52.1 | 78.1 |
| 127 | 8.4 | 6.7 | 10.1 |

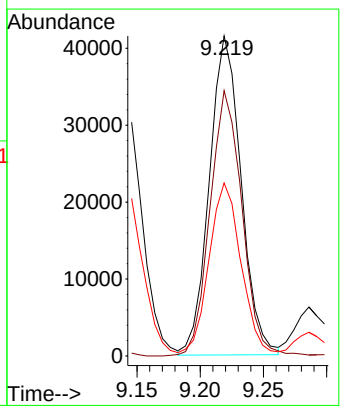


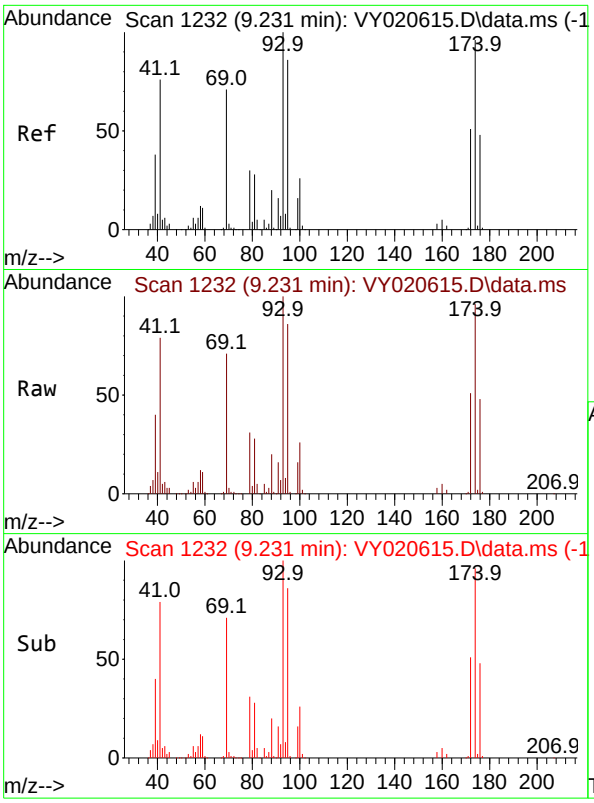




#48
Methyl methacrylate
Concen: 50.709 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 41 Resp: 72602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.0 | 67.2 | 100.8 |
| 39 | 52.8 | 42.2 | 63.4 |



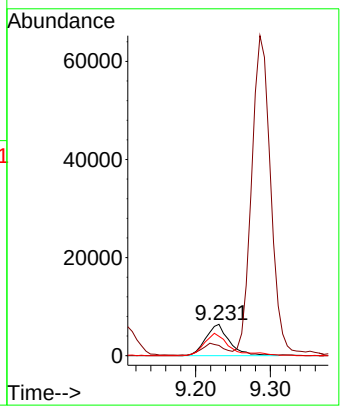


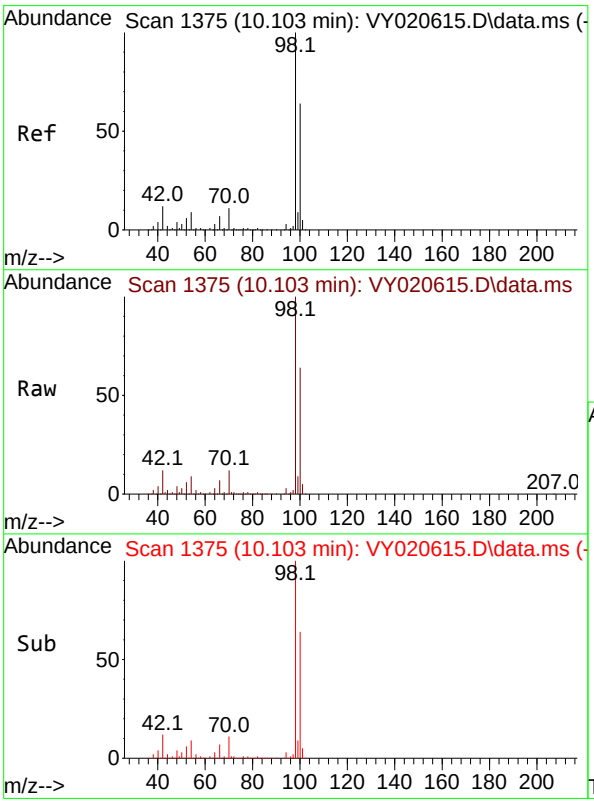

#49
1,4-Dioxane
Concen: 1001.939 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 88 Resp: 14069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.5 | 27.6 | 41.4 |
| 58 | 77.1 | 61.7 | 92.5 |

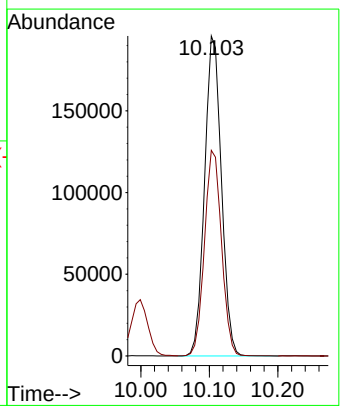


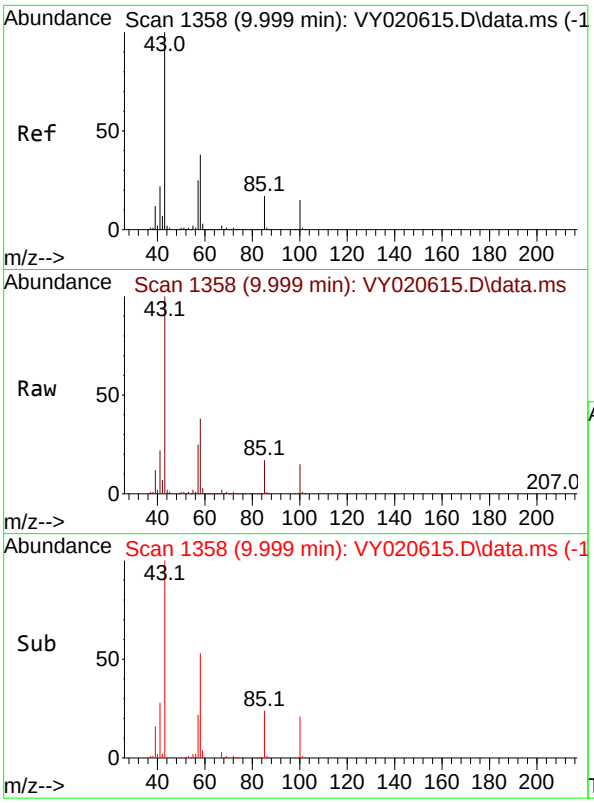




#50
Toluene-d8
Concen: 51.543 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 98 Resp: 334601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.1 | 78.1 |



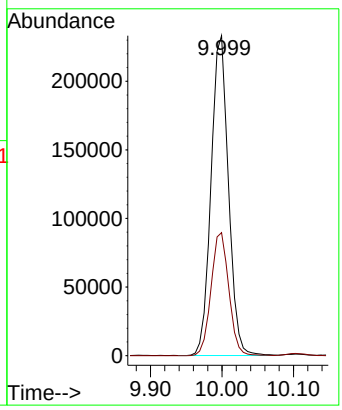


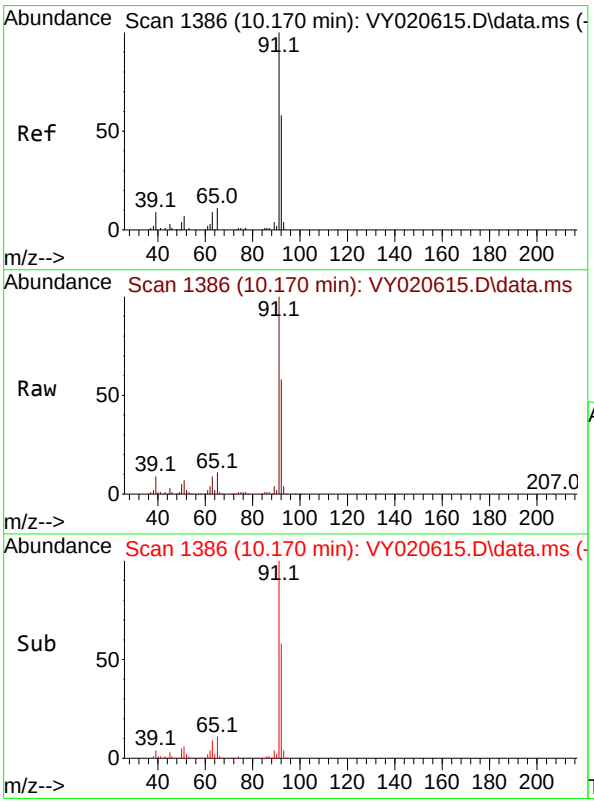

#51
4-Methyl-2-Pentanone
Concen: 247.835 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 393979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.3 | 31.4 | 47.2 |

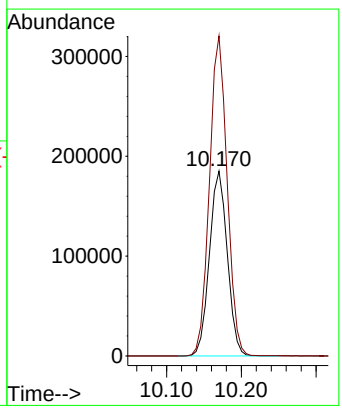


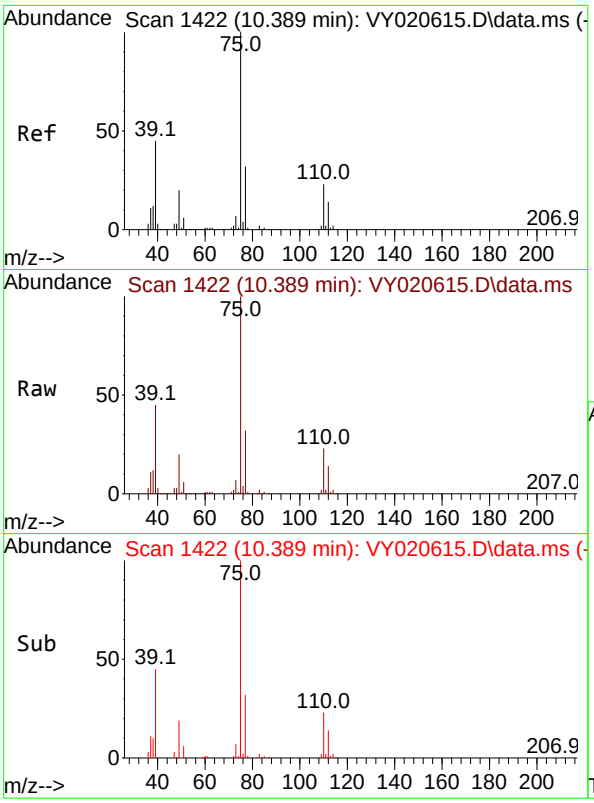




#52
Toluene
Concen: 49.846 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 92 Resp: 307082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.7 | 137.4 | 206.0 |



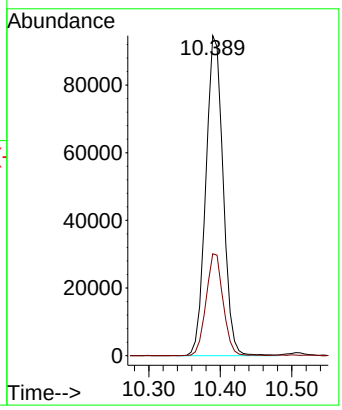


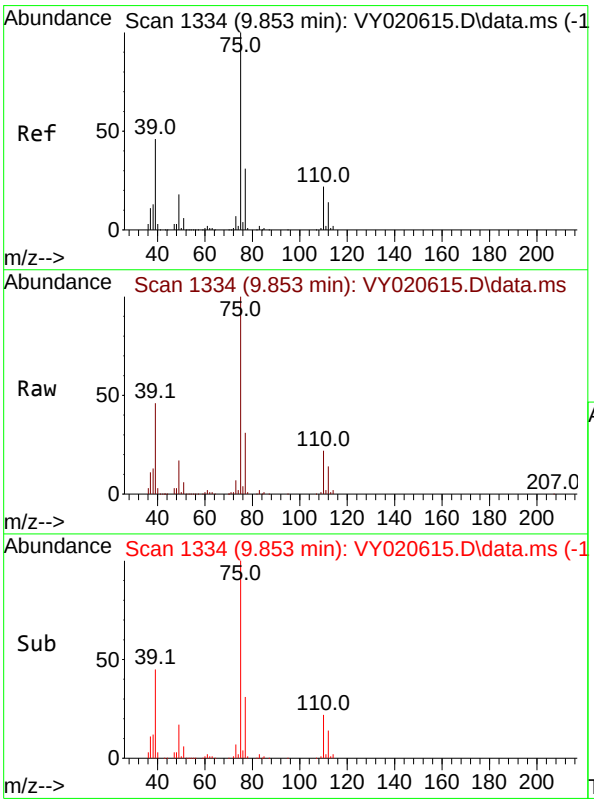

#53
t-1,3-Dichloropropene
Concen: 51.442 ug/l
RT: 10.389 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 158536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.4 | 38.2 |

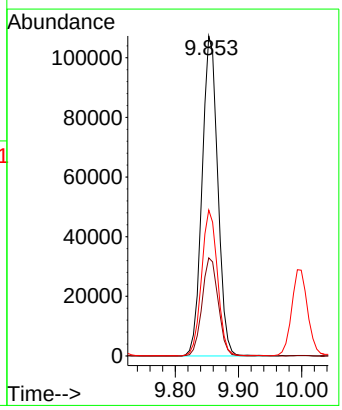


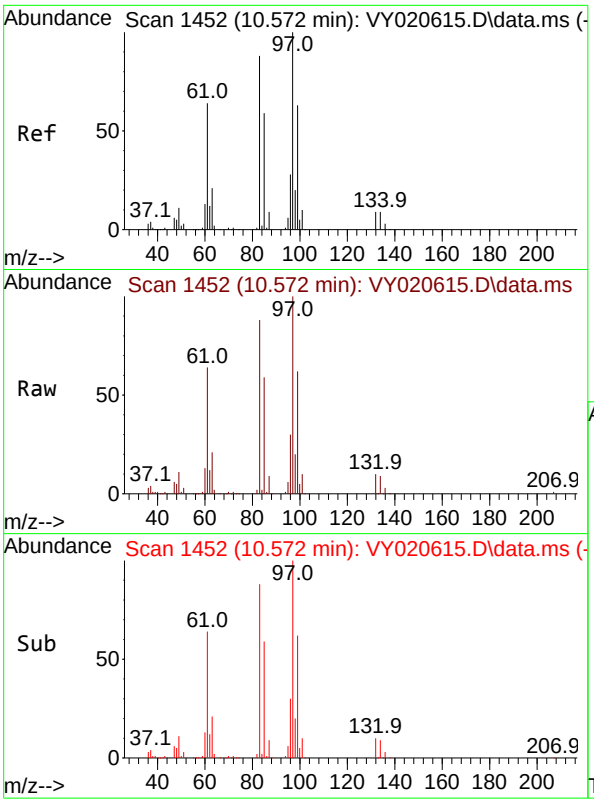




#54
cis-1,3-Dichloropropene
Concen: 50.849 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 75 Resp: 185696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.7 | 24.6 | 36.8 |
| 39 | 45.5 | 36.4 | 54.6 |



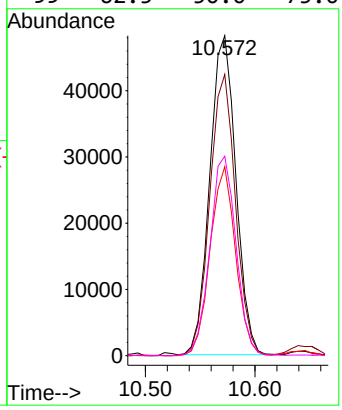


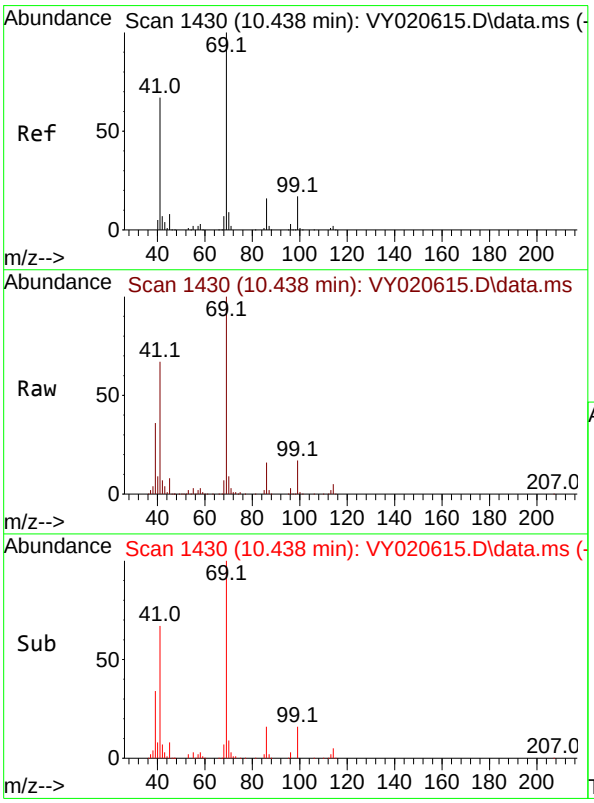

#55
1,1,2-Trichloroethane
Concen: 49.318 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 97 Resp: 79837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.0 | 70.4 | 105.6 |
| 85 | 59.0 | 47.2 | 70.8 |
| 99 | 62.5 | 50.0 | 75.0 |

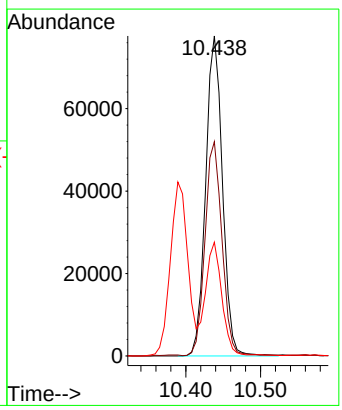


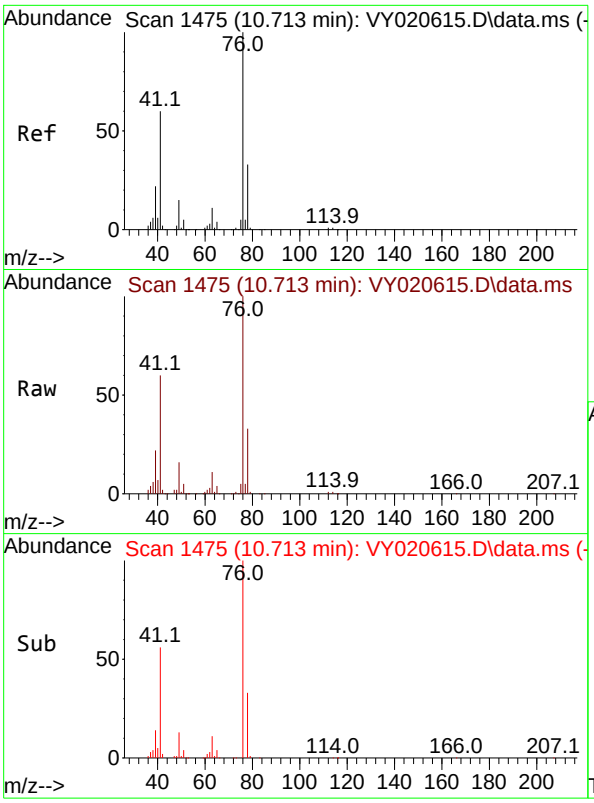




#56
Ethyl methacrylate
Concen: 51.535 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 69 Resp: 121030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 67.5 | 54.0 | 81.0 |
| 39 | 34.9 | 27.9 | 41.9 |



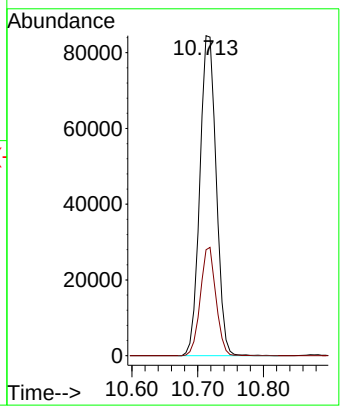


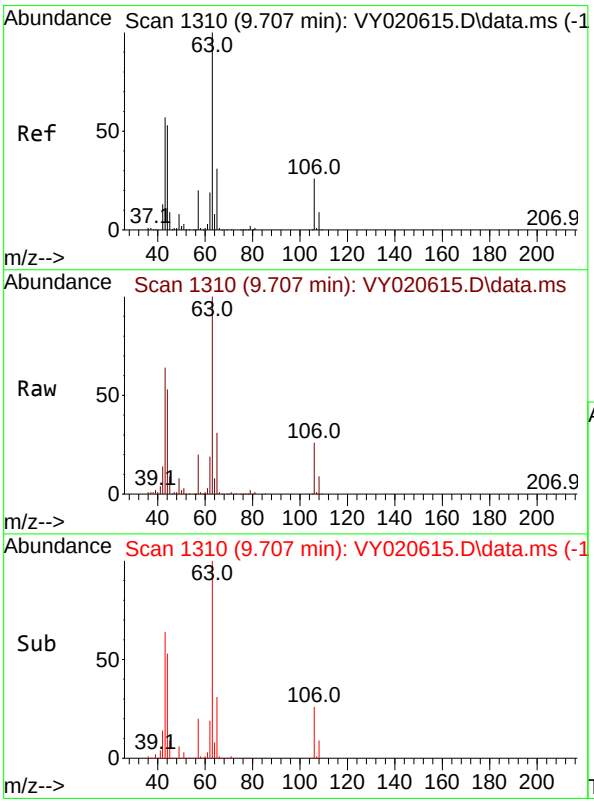

#57
1,3-Dichloropropane
Concen: 50.611 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 146053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 25.8 | 38.8 |

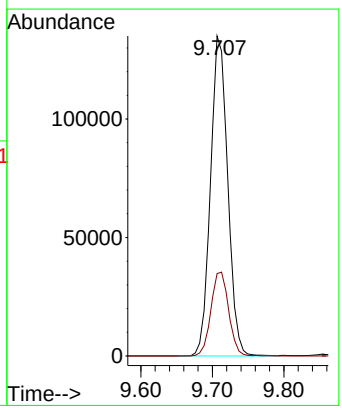


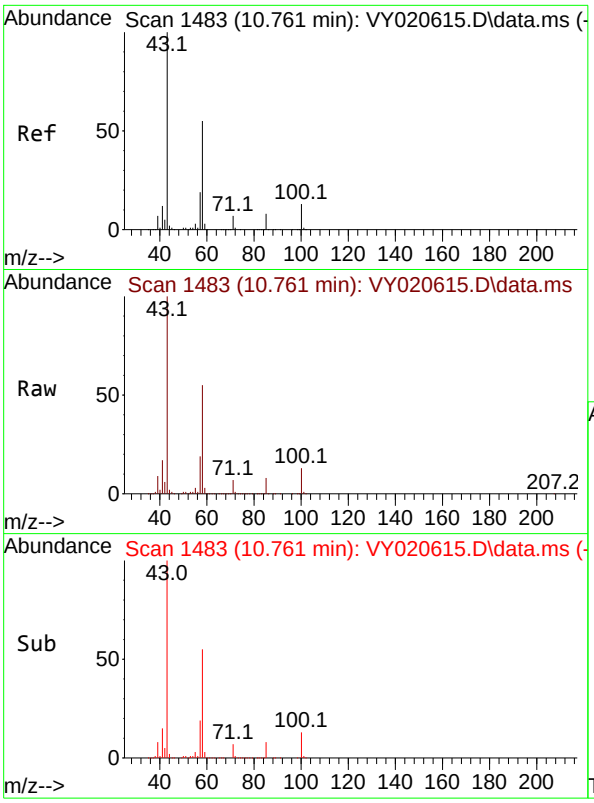




#58
2-Chloroethyl Vinyl ether
Concen: 228.767 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 63 Resp: 226061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.9 | 21.5 | 32.3 |



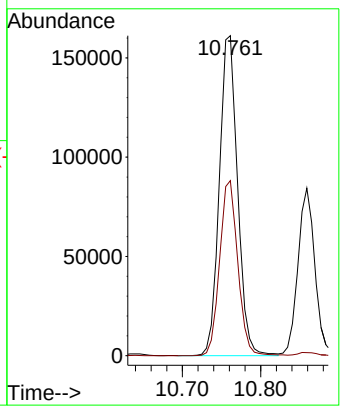


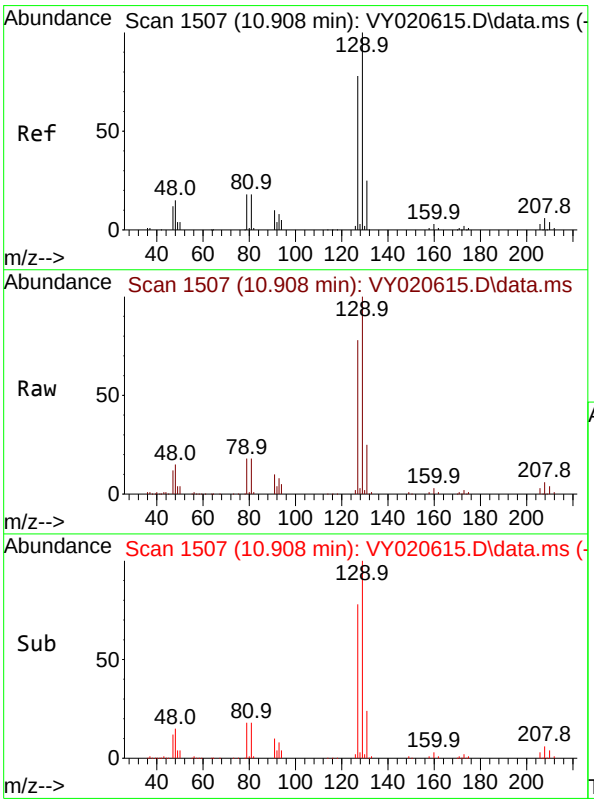

#59
2-Hexanone
Concen: 256.048 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 261334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.4 | 27.2 | 81.6 |

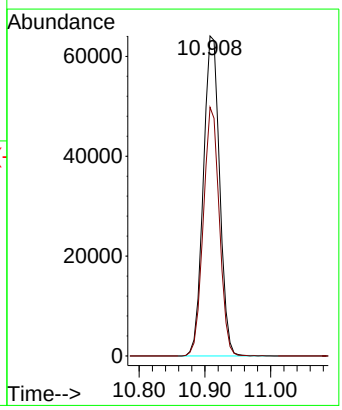


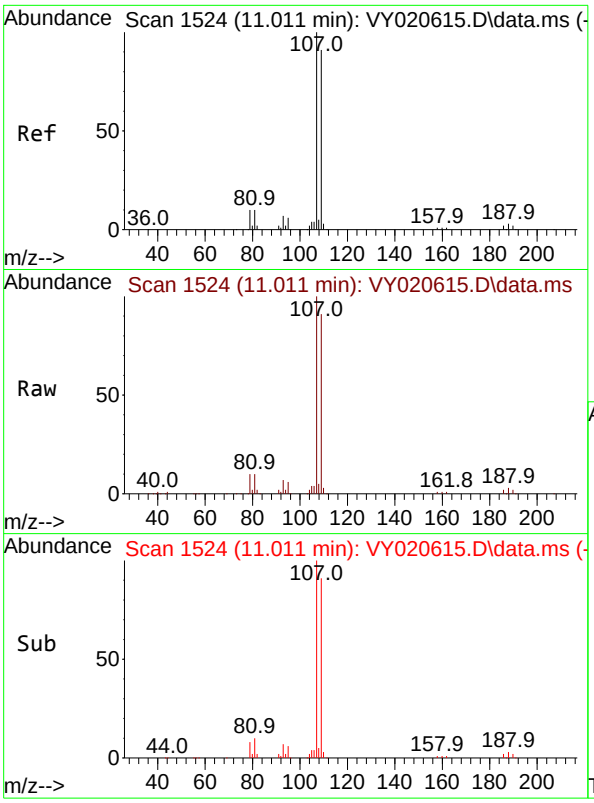




#60
Dibromochloromethane
Concen: 51.085 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:129 Resp: 110597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.2 | 38.1 | 114.3 |



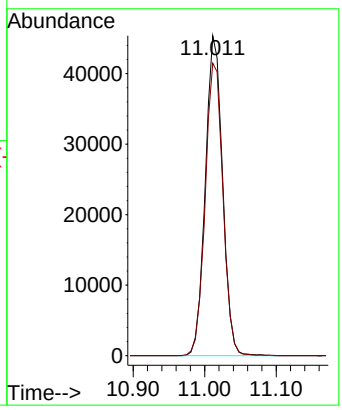


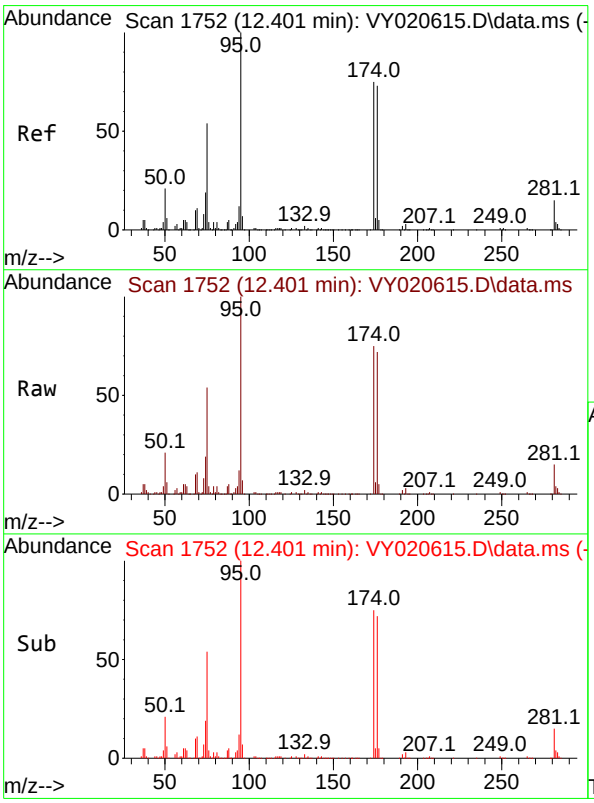

#61
1,2-Dibromoethane
Concen: 50.346 ug/l
RT: 11.011 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:107 Resp: 75811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.3 | 75.4 | 113.2 |

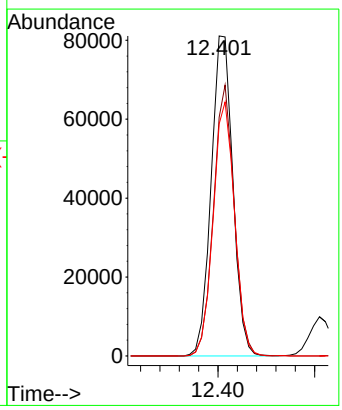


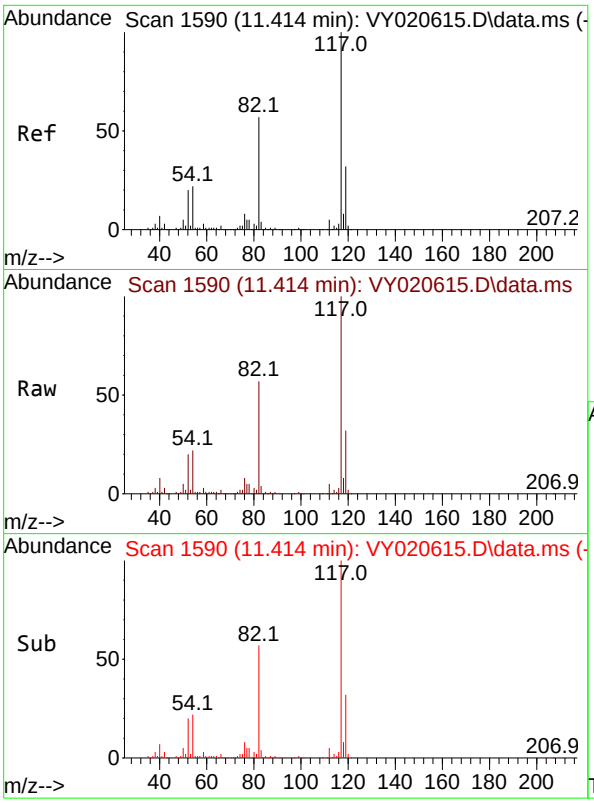




#62
4-Bromofluorobenzene
Concen: 49.707 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 95 Resp: 126226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.9 | 0.0 | 161.8 |
| 176 | 78.3 | 0.0 | 156.6 |



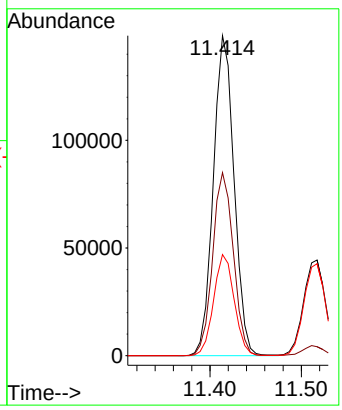


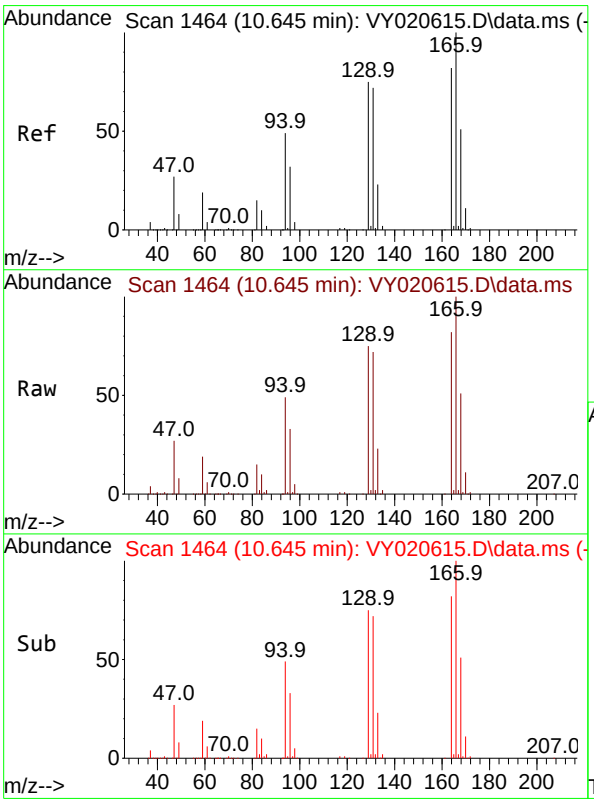

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:117 Resp: 234325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.2 | 45.8 | 68.6 |
| 119 | 31.6 | 25.3 | 37.9 |

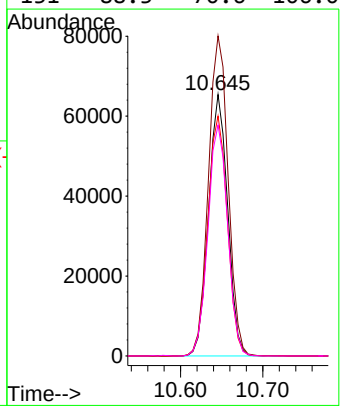


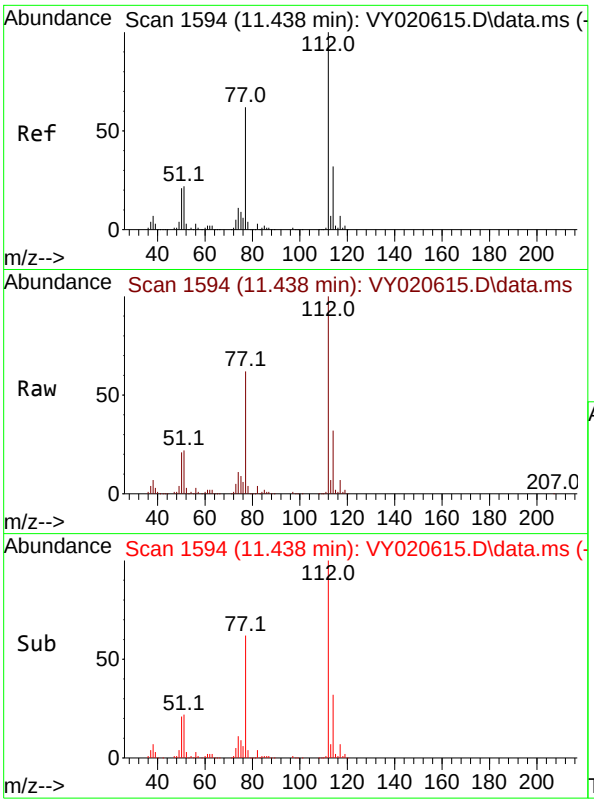




#64
Tetrachloroethene
Concen: 48.065 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:164 Resp: 105939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.4 | 97.9 | 146.9 |
| 129 | 91.7 | 73.4 | 110.0 |
| 131 | 88.3 | 70.6 | 106.0 |



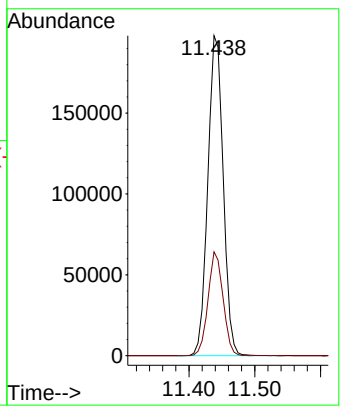


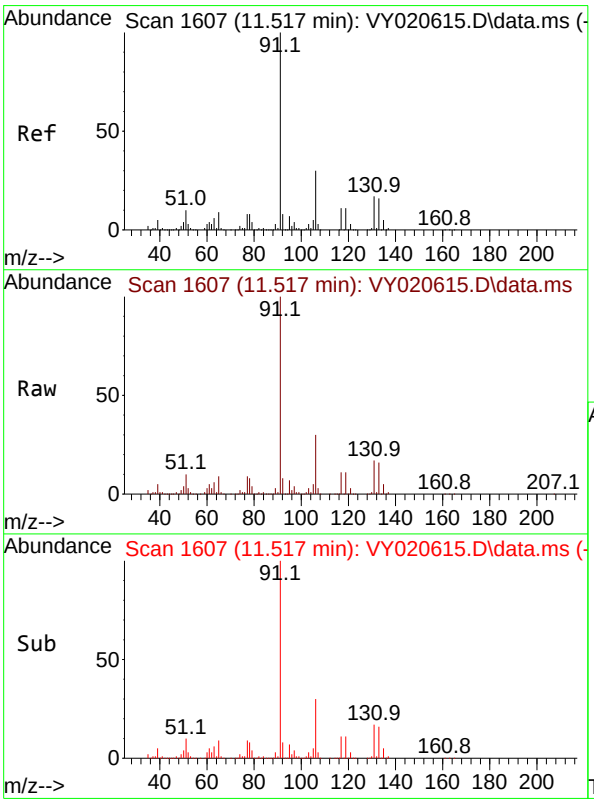

#65
Chlorobenzene
Concen: 49.154 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:112 Resp: 322053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.5 | 26.0 | 39.0 |

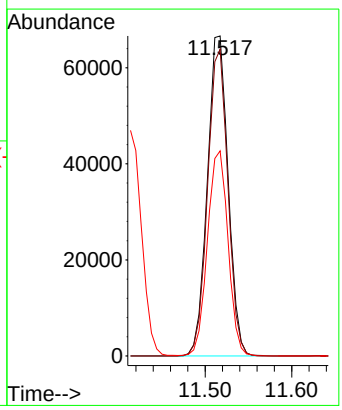


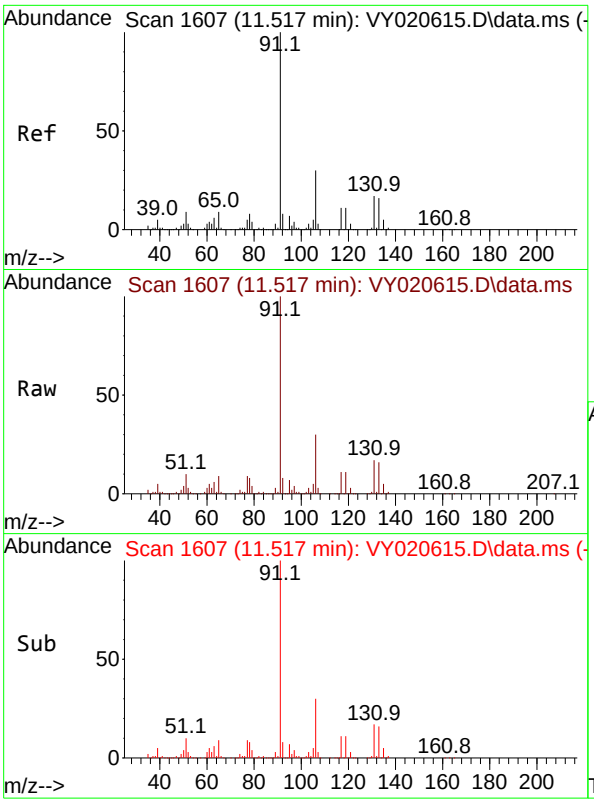




#66
1,1,1,2-Tetrachloroethane
Concen: 49.571 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:131 Resp: 111060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 93.5 | 46.8 | 140.3 |
| 119 | 63.5 | 31.8 | 95.3 |



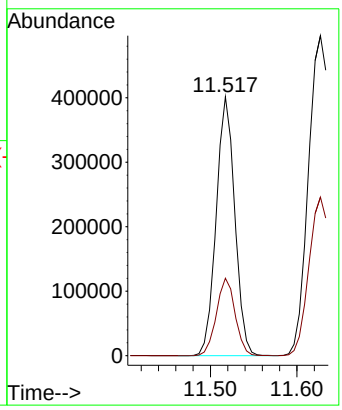


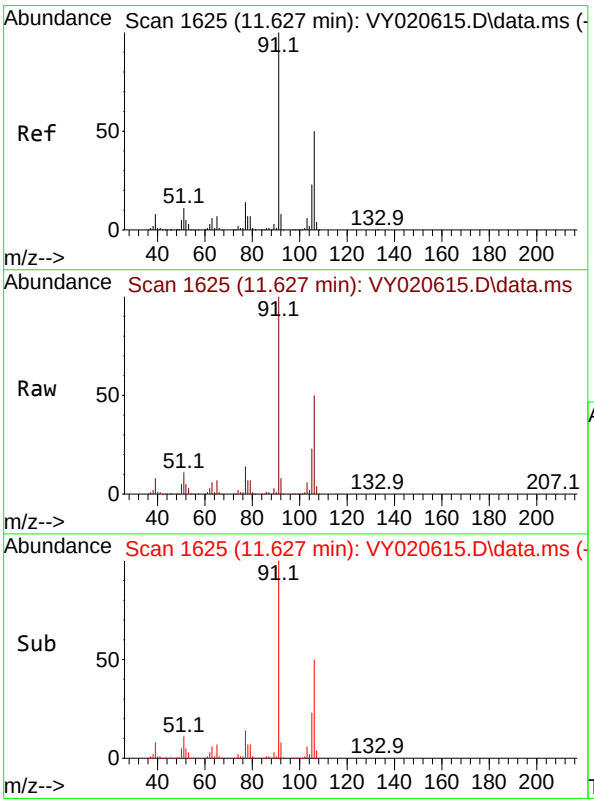

#67
Ethyl Benzene
Concen: 49.546 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 598896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.9 | 23.9 | 35.9 |

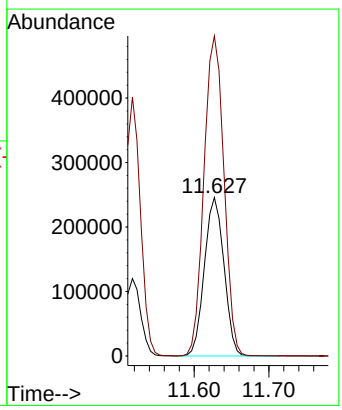


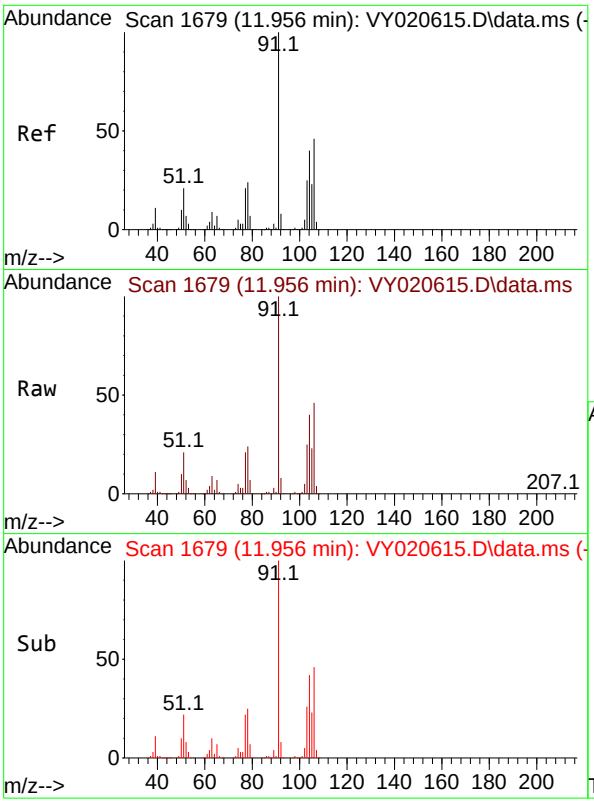




#68
m/p-Xylenes
Concen: 99.408 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:106 Resp: 446771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.2 | 165.0 | 247.4 |



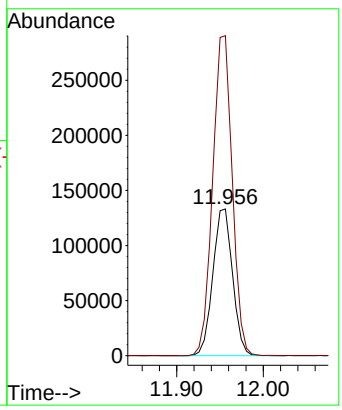


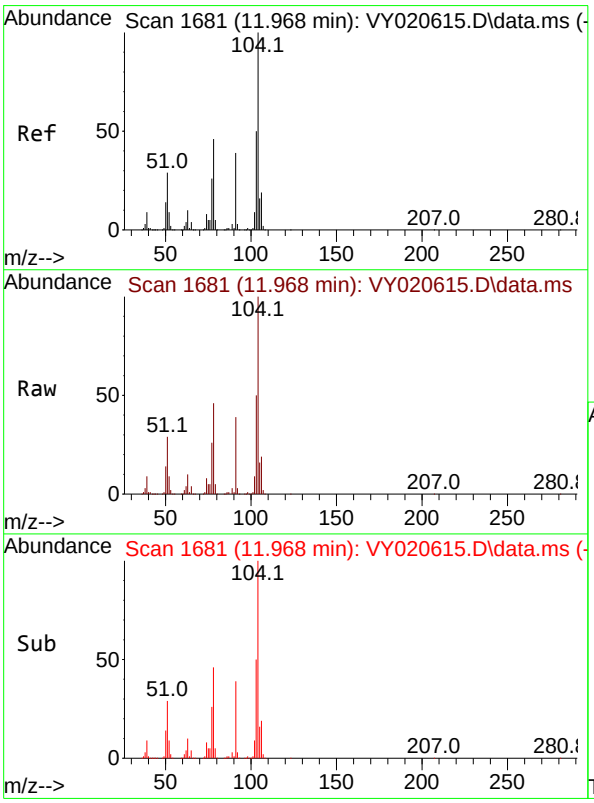

#69
o-Xylene
Concen: 50.198 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:106 Resp: 210499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.8 | 108.4 | 325.2 |

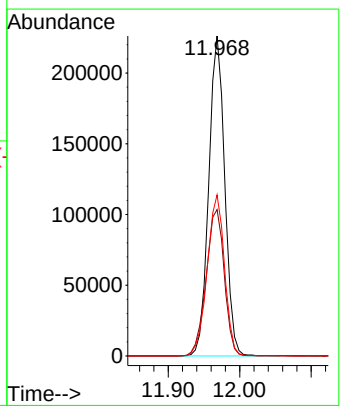


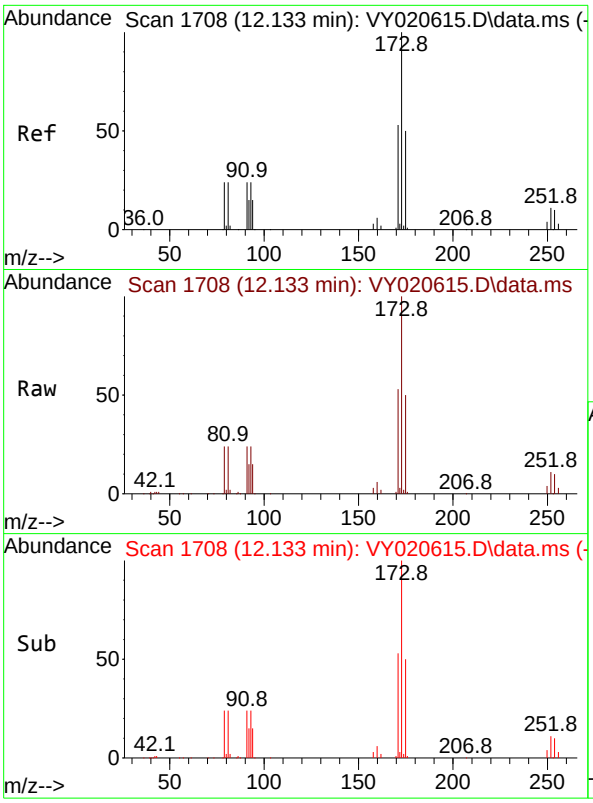




#70
Styrene
Concen: 50.222 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:104 Resp: 351858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.0 | 41.6 | 62.4 |
| 103 | 54.6 | 43.7 | 65.5 |



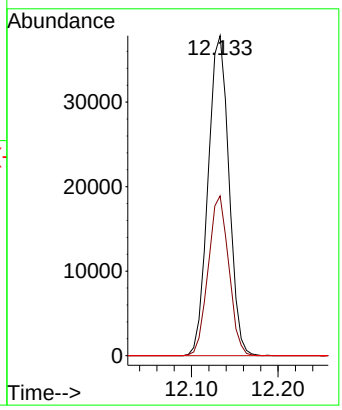


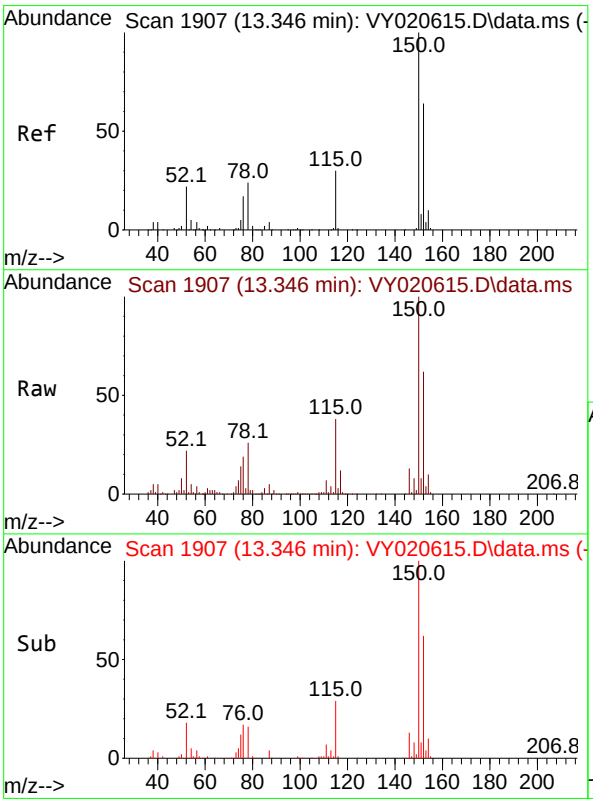

#71
Bromoform
Concen: 50.171 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:173 Resp: 63198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |

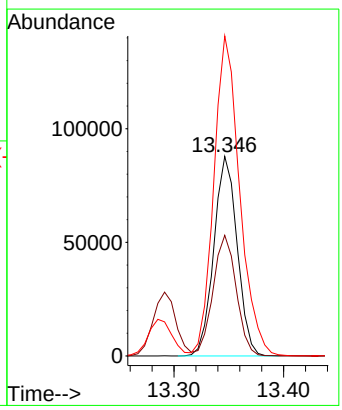


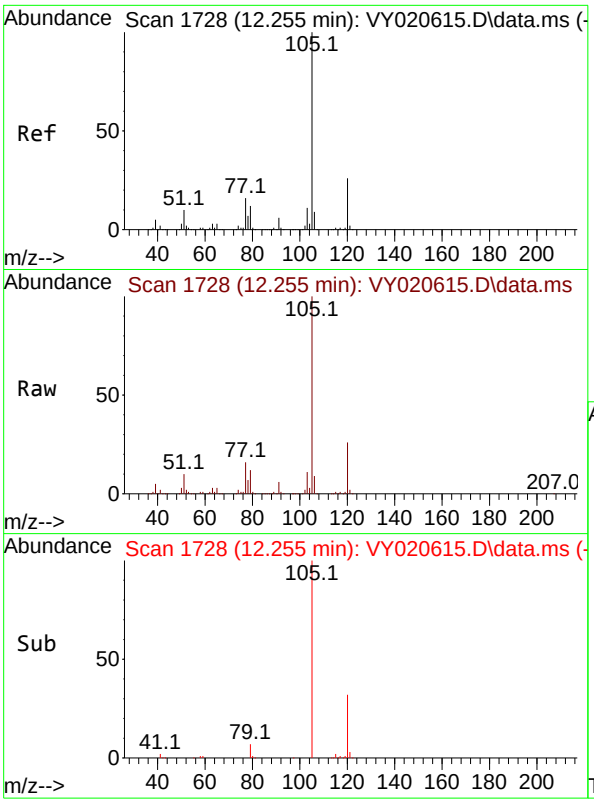




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:152 Resp: 130092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.4 | 30.2 | 90.6 |
| 150 | 177.7 | 0.0 | 355.4 |



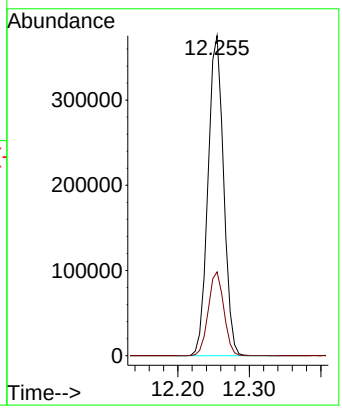


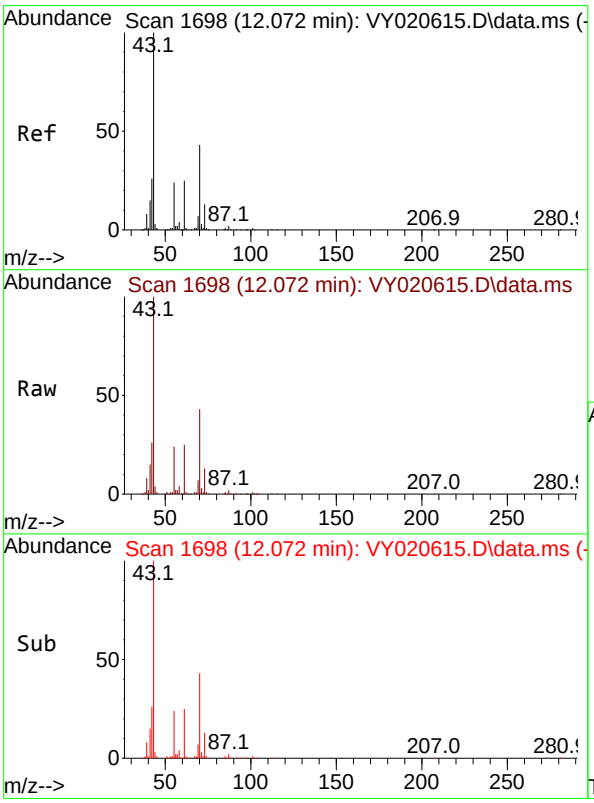

#73
Isopropylbenzene
Concen: 49.914 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 566646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |

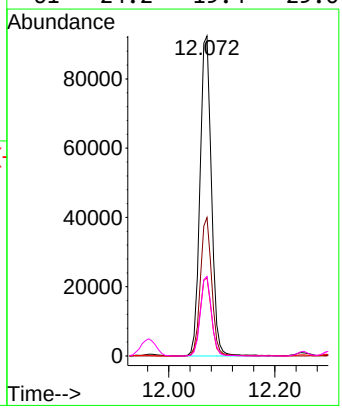


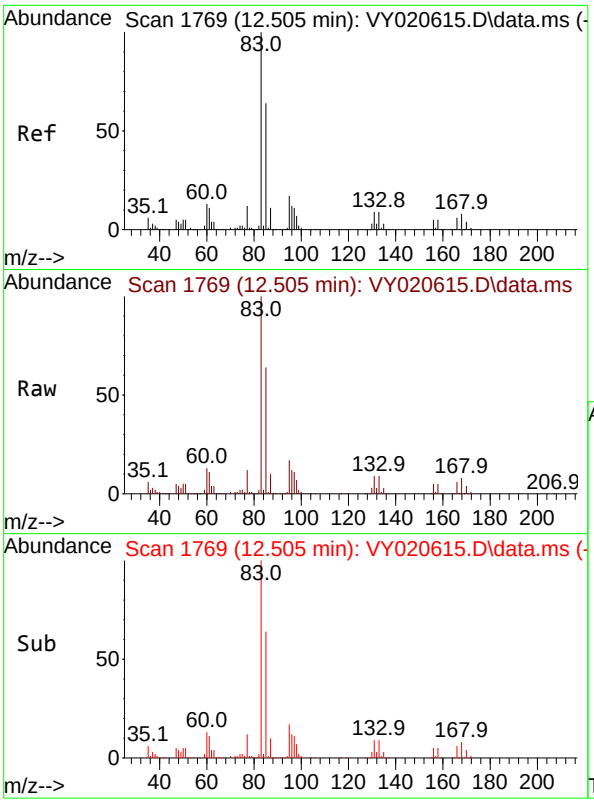




#74
N-amyl acetate
Concen: 52.254 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 43 Resp: 138830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.7 | 34.2 | 51.2 |
| 55 | 24.5 | 19.6 | 29.4 |
| 61 | 24.2 | 19.4 | 29.0 |



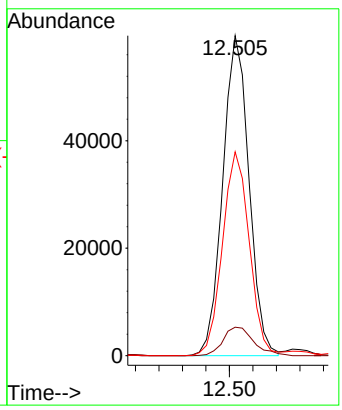


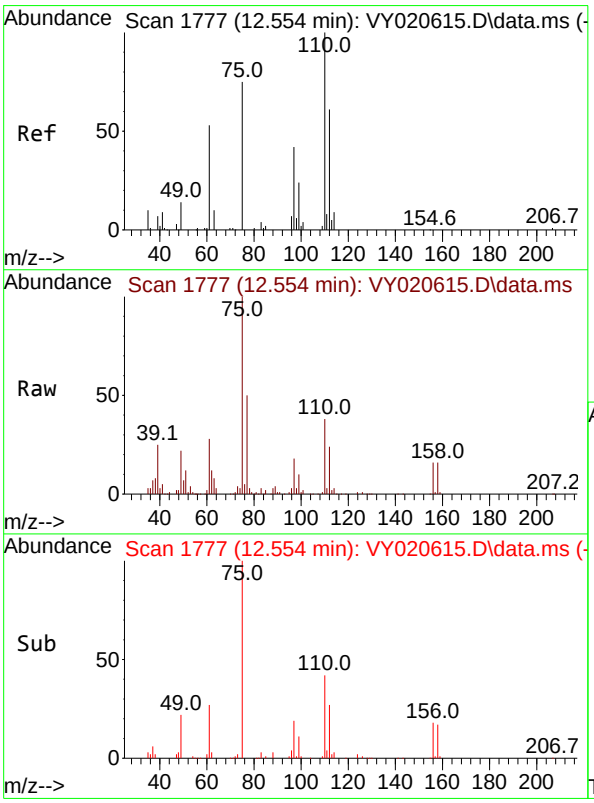

#75
1,1,2,2-Tetrachloroethane
Concen: 50.115 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 92349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 5.2 | 15.6 |
| 85 | 64.9 | 32.5 | 97.4 |

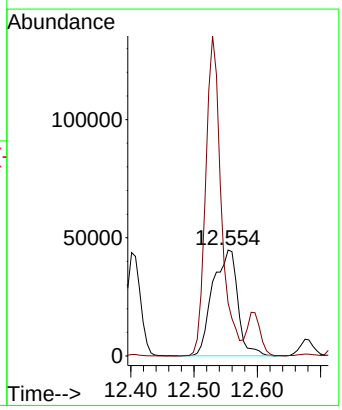


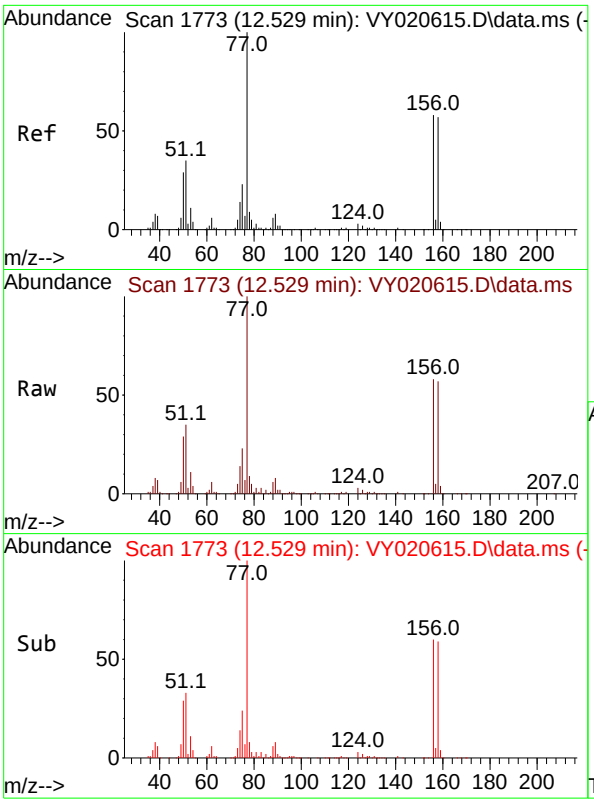




#76
1,2,3-Trichloropropane
Concen: 91.339 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 75 Resp: 122382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



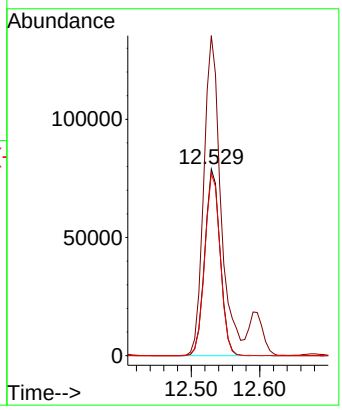


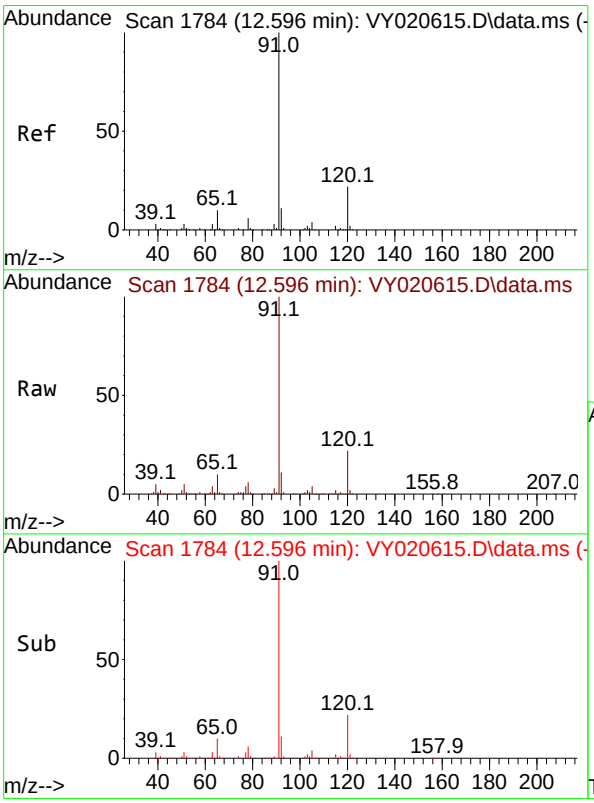

#77
Bromobenzene
Concen: 49.842 ug/l
RT: 12.529 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:156 Resp: 123256

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 188.3 | 94.2 | 282.4 |
| 158 | 97.7 | 48.9 | 146.6 |

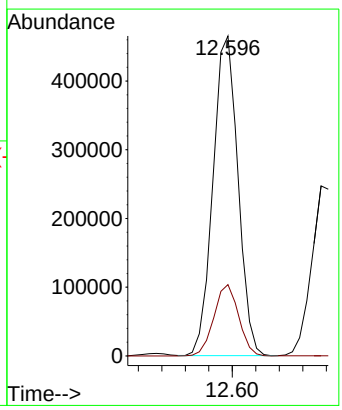


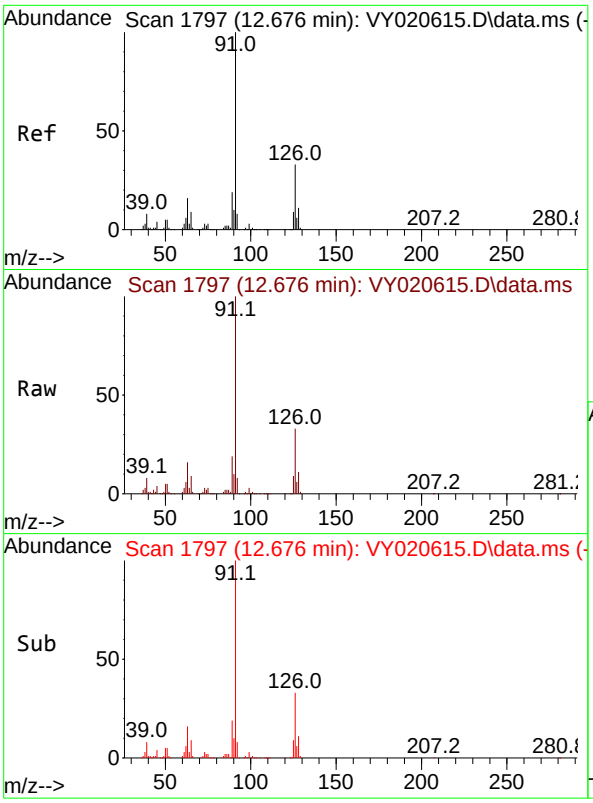




#78
n-propylbenzene
Concen: 50.251 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 91 Resp: 687319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.1 | 11.1 | 33.1 |



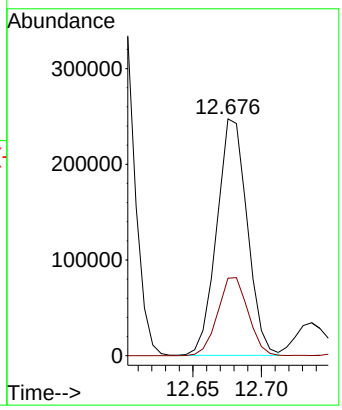


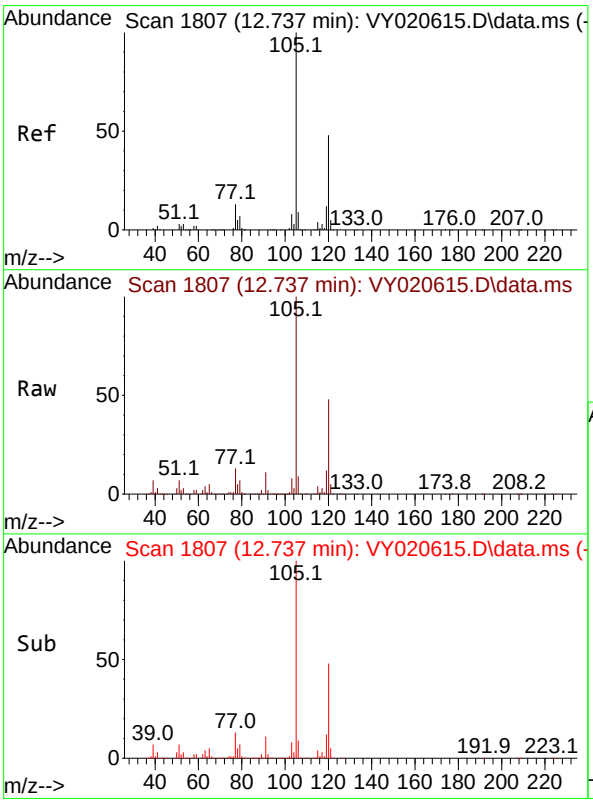

#79
2-Chlorotoluene
Concen: 49.707 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 382511

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.1 | 16.6 | 49.7 |

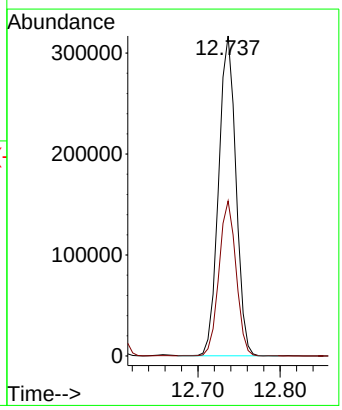


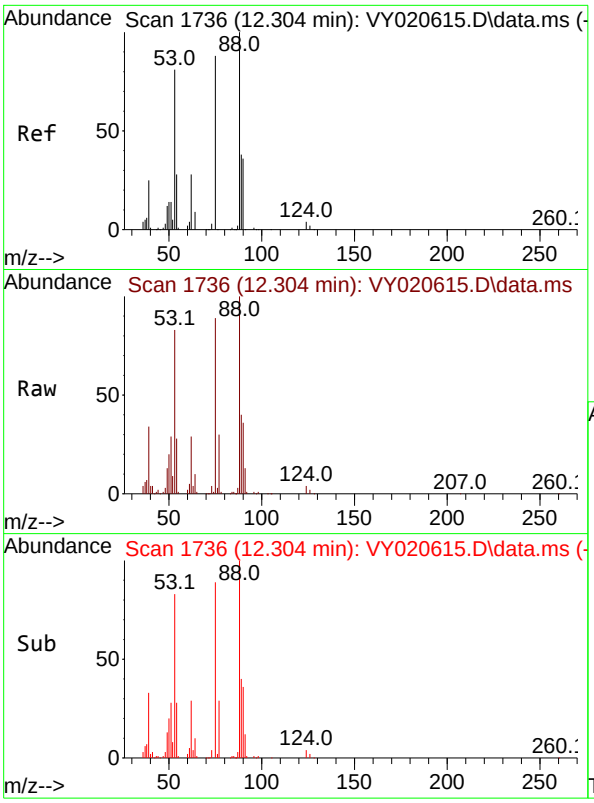




#80
1,3,5-Trimethylbenzene
Concen: 50.279 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:105 Resp: 463155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |



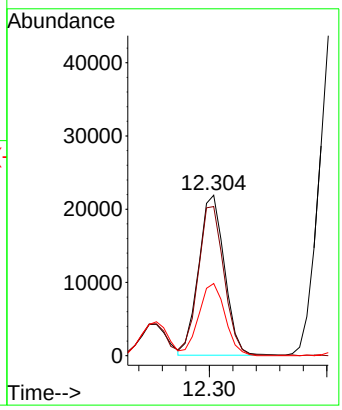


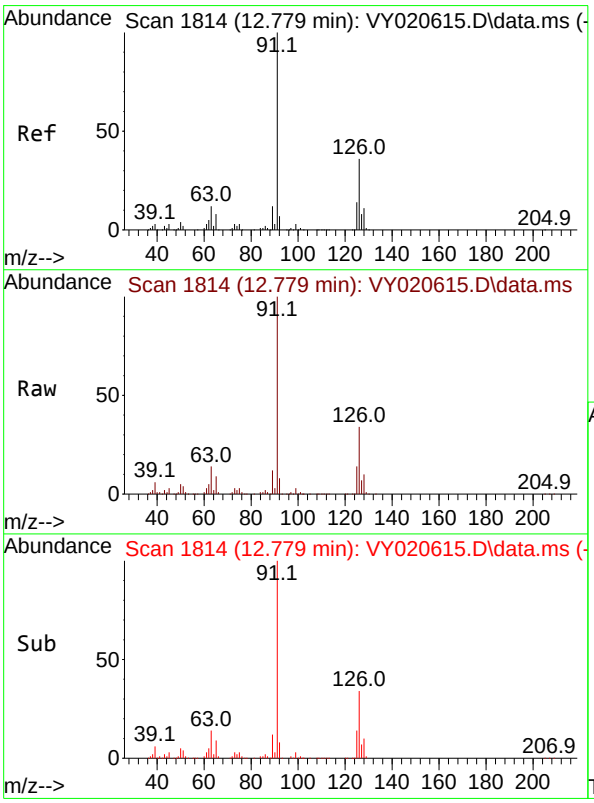

#81
trans-1,4-Dichloro-2-butene
Concen: 51.816 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 33360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 94.3 | 75.4 | 113.2 |
| 89 | 46.2 | 37.0 | 55.4 |

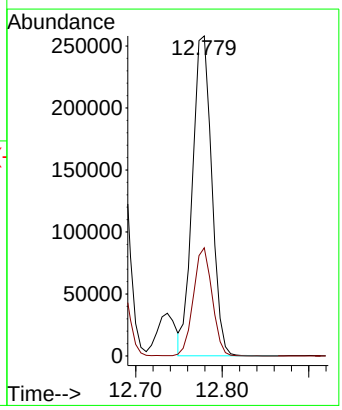


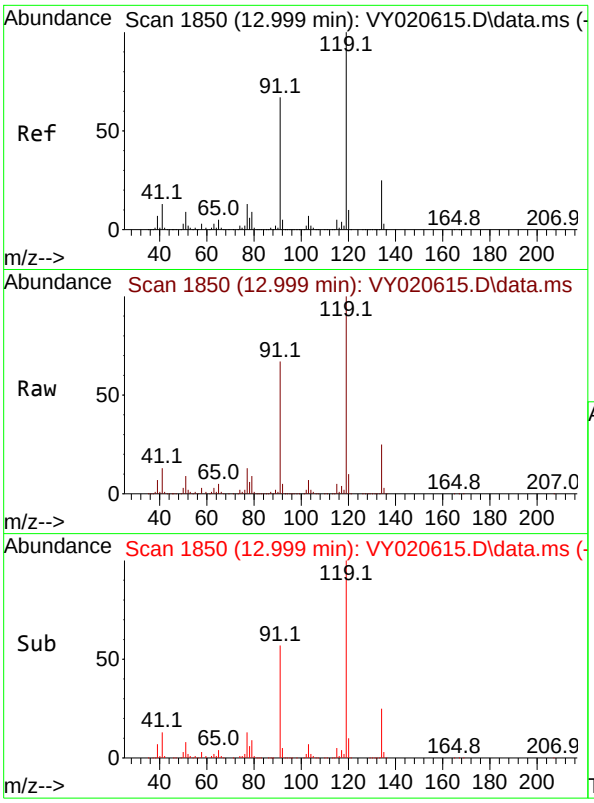




#82
4-Chlorotoluene
Concen: 49.848 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 91 Resp: 397958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.1 | 16.6 | 49.7 |



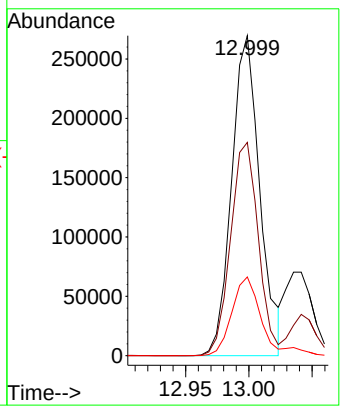


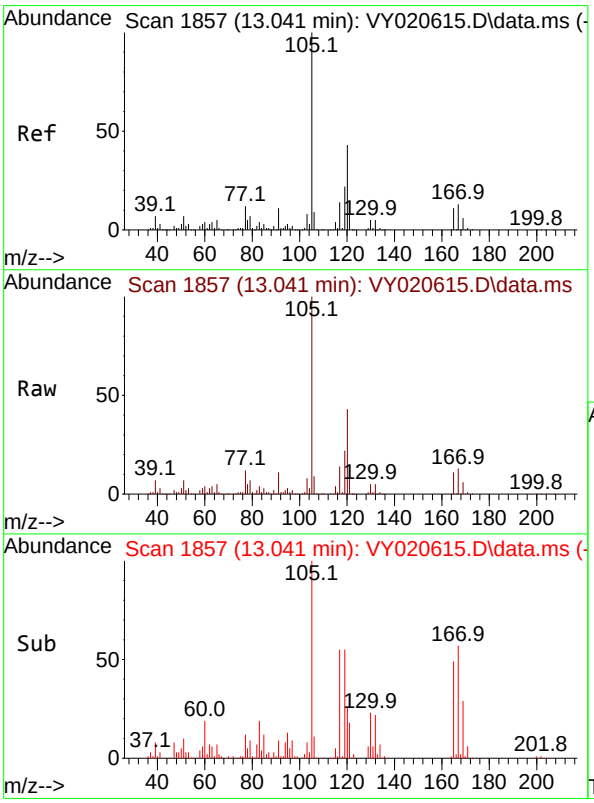

#83
tert-Butylbenzene
Concen: 50.127 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:119 Resp: 418182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.7 | 32.9 | 98.6 |
| 134 | 26.1 | 13.1 | 39.1 |

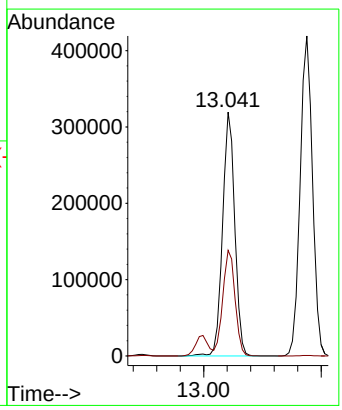


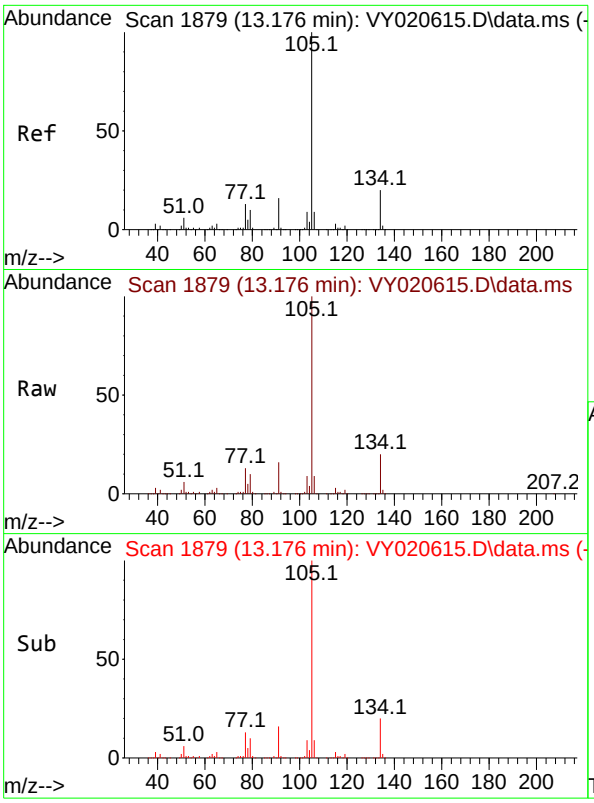




#84
1,2,4-Trimethylbenzene
Concen: 50.907 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:105 Resp: 459974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.6 | 21.8 | 65.4 |



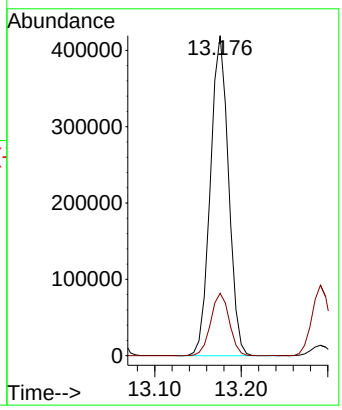


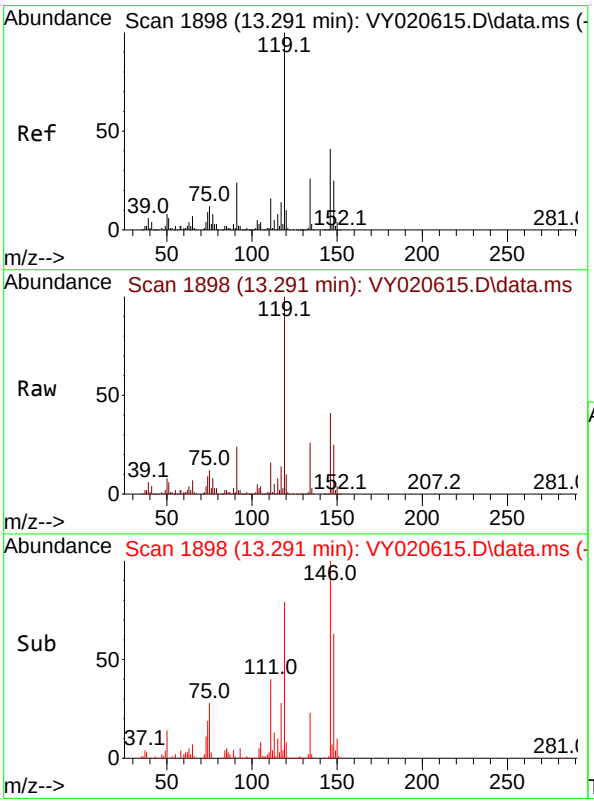

#85
sec-Butylbenzene
Concen: 50.301 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 610142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.0 | 10.0 | 30.0 |

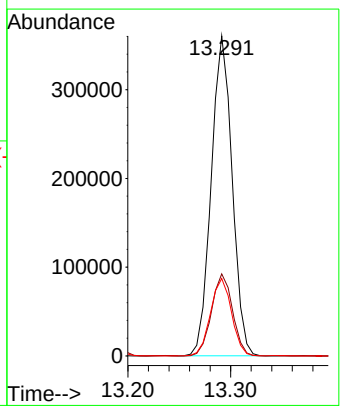


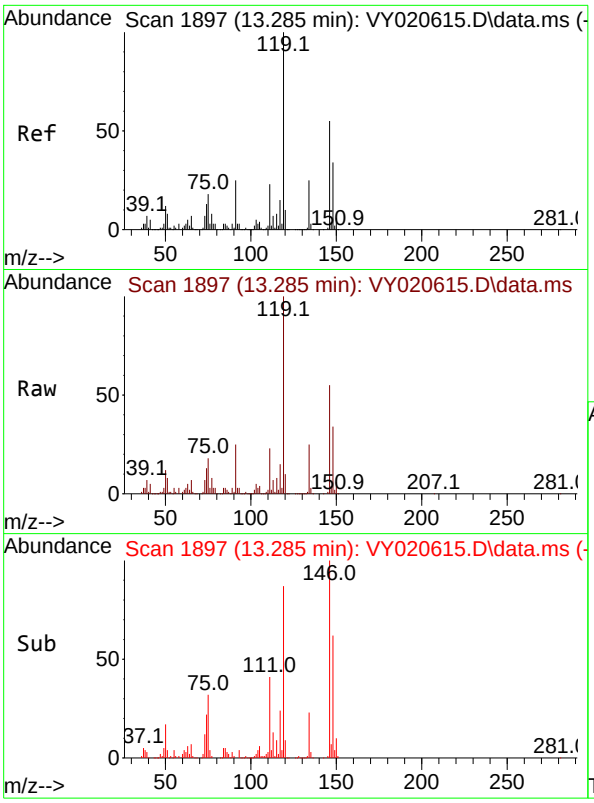




#86
p-Isopropyltoluene
Concen: 50.941 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:119 Resp: 509445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.9 | 38.6 |
| 91 | 24.2 | 12.1 | 36.3 |



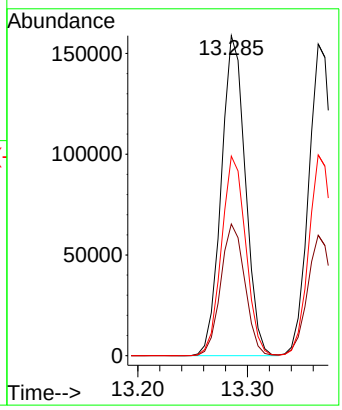


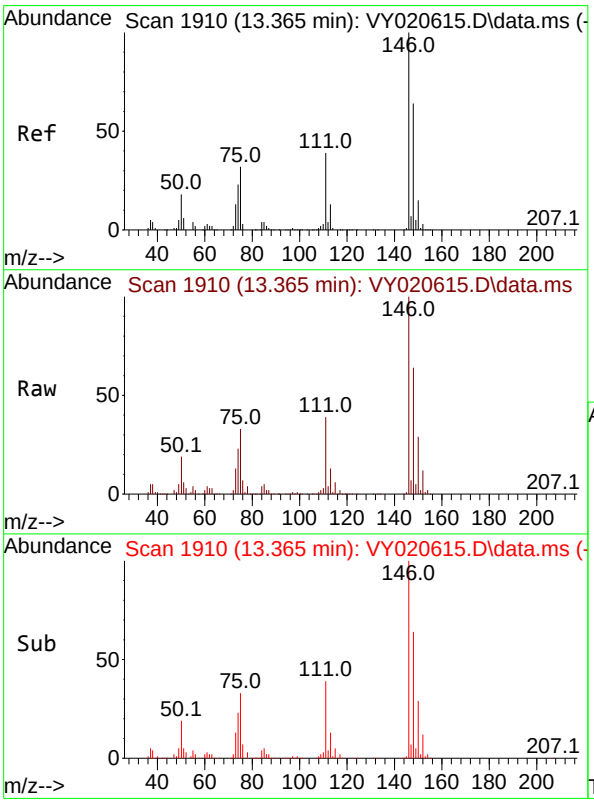

#87
1,3-Dichlorobenzene
Concen: 49.677 ug/l
RT: 13.285 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 242502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.2 | 20.6 | 61.8 |
| 148 | 62.7 | 31.4 | 94.0 |

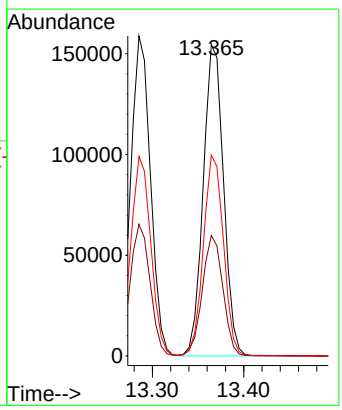


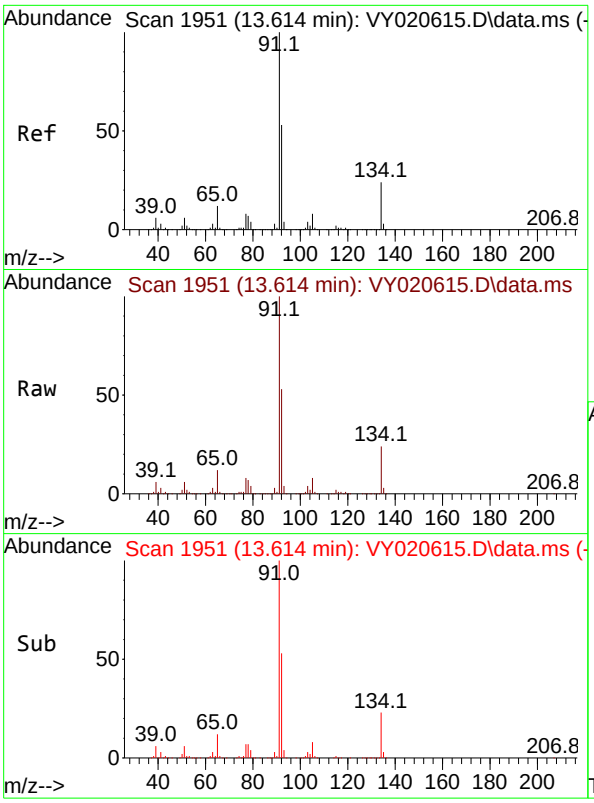




#88
1,4-Dichlorobenzene
Concen: 49.281 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:146 Resp: 238266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 19.6 | 58.7 |
| 148 | 63.7 | 31.9 | 95.5 |



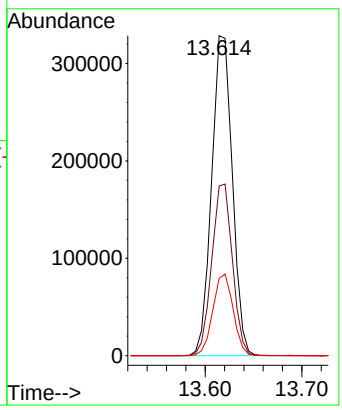


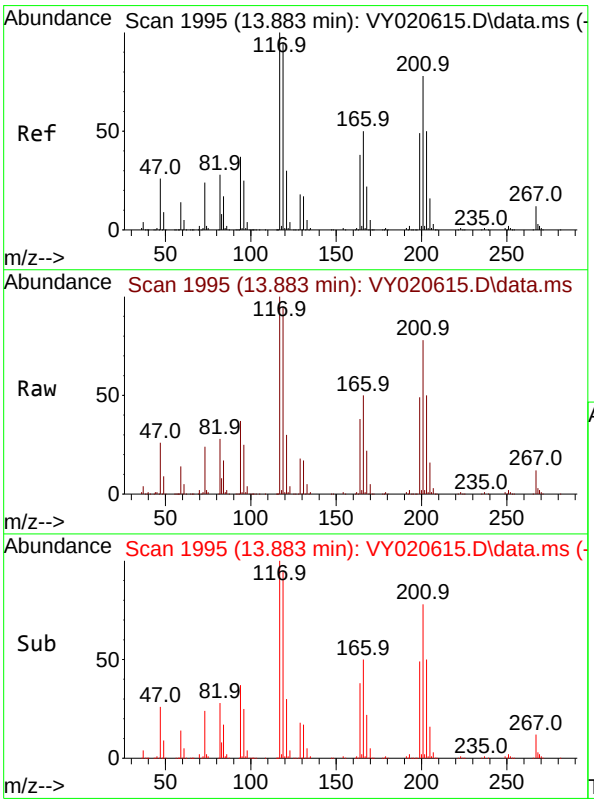

#89
n-Butylbenzene
Concen: 51.461 ug/l
RT: 13.614 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 487742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.6 | 26.8 | 80.4 |
| 134 | 25.0 | 12.5 | 37.5 |

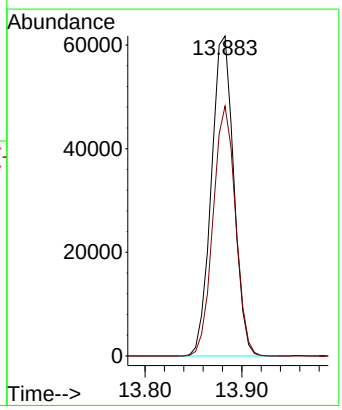


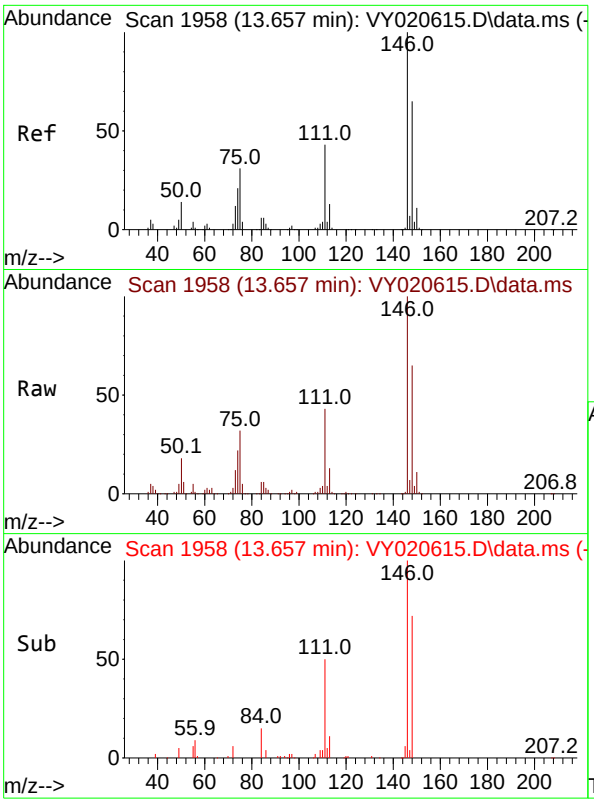




#90
Hexachloroethane
Concen: 50.134 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:117 Resp: 99360

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.2 | 39.1 | 117.3 |



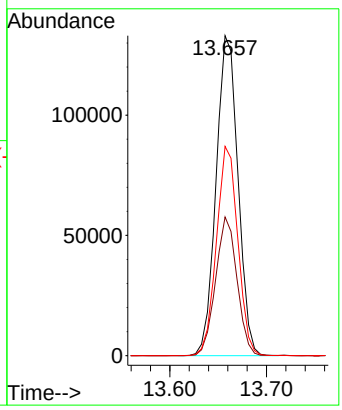


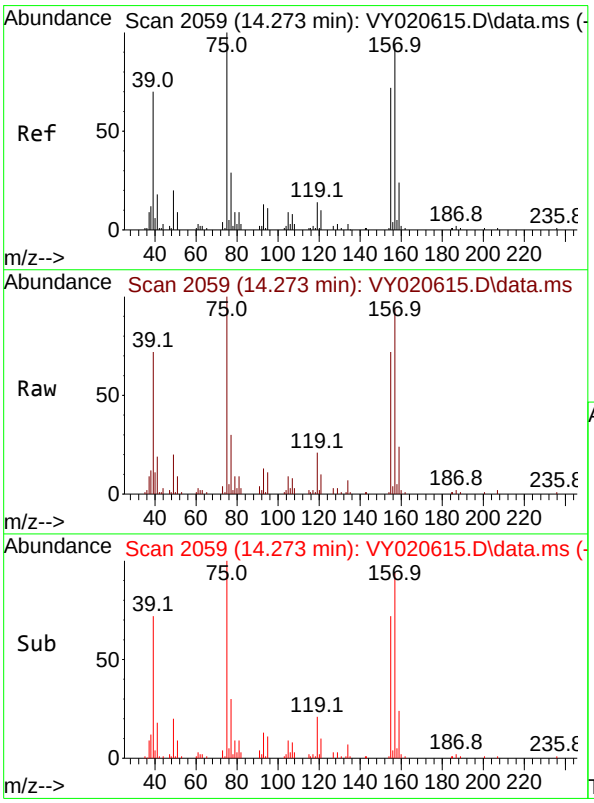

#91
1,2-Dichlorobenzene
Concen: 49.409 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 208977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.5 | 21.3 | 63.7 |
| 148 | 64.0 | 32.0 | 96.0 |

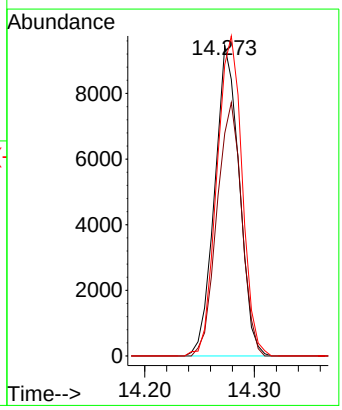


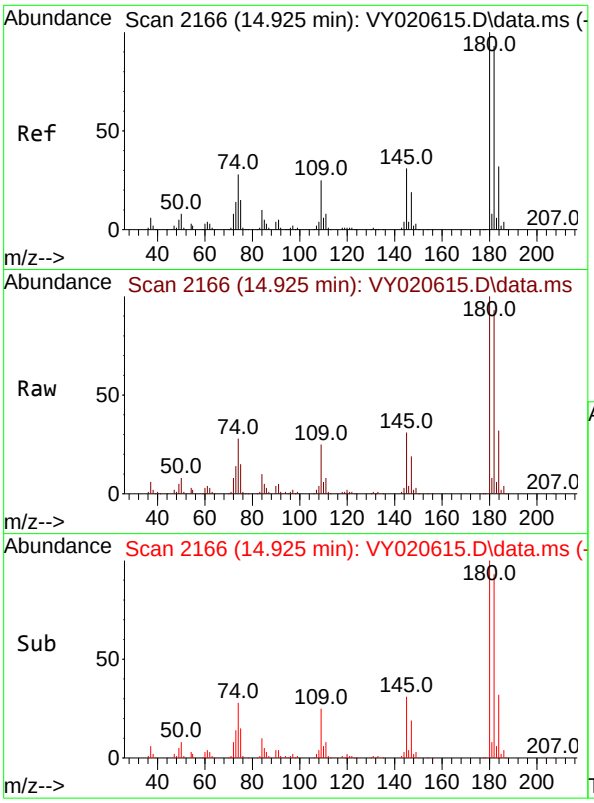




#92
1,2-Dibromo-3-Chloropropane
Concen: 49.268 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion: 75 Resp: 14740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.2 | 41.1 | 123.3 |
| 157 | 105.9 | 52.9 | 158.8 |



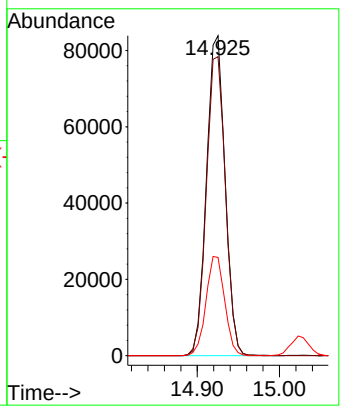


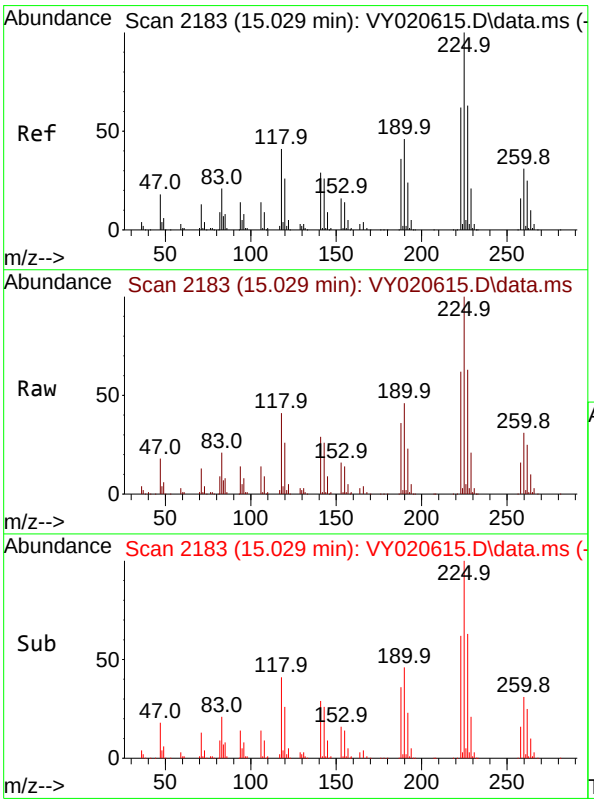

#93
1,2,4-Trichlorobenzene
Concen: 51.538 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:180 Resp: 131852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 47.9 | 143.6 |
| 145 | 31.1 | 15.6 | 46.7 |

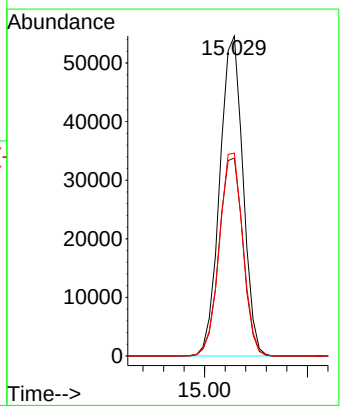


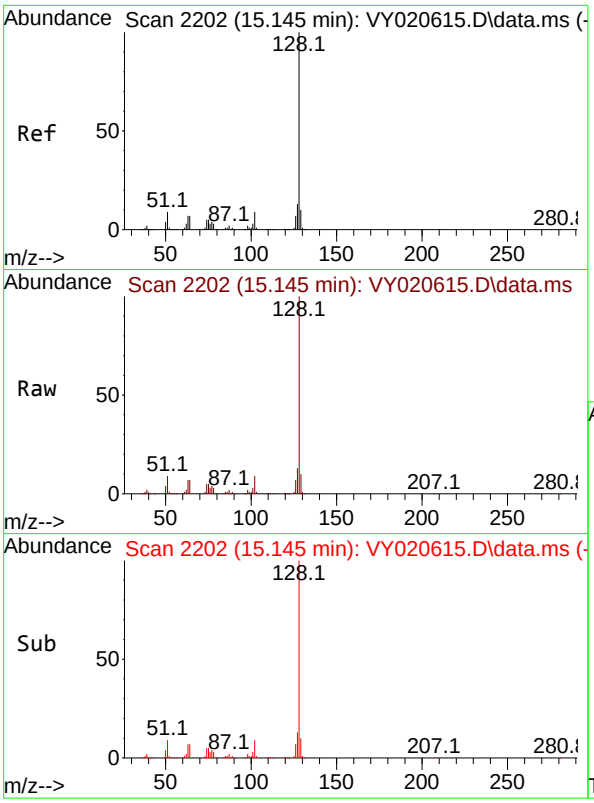




#94
Hexachlorobutadiene
Concen: 51.117 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:225 Resp: 85490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 31.8 | 95.3 |
| 227 | 64.4 | 32.2 | 96.6 |



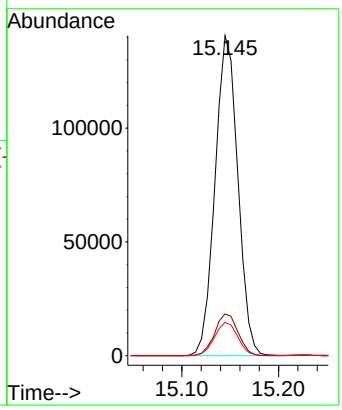


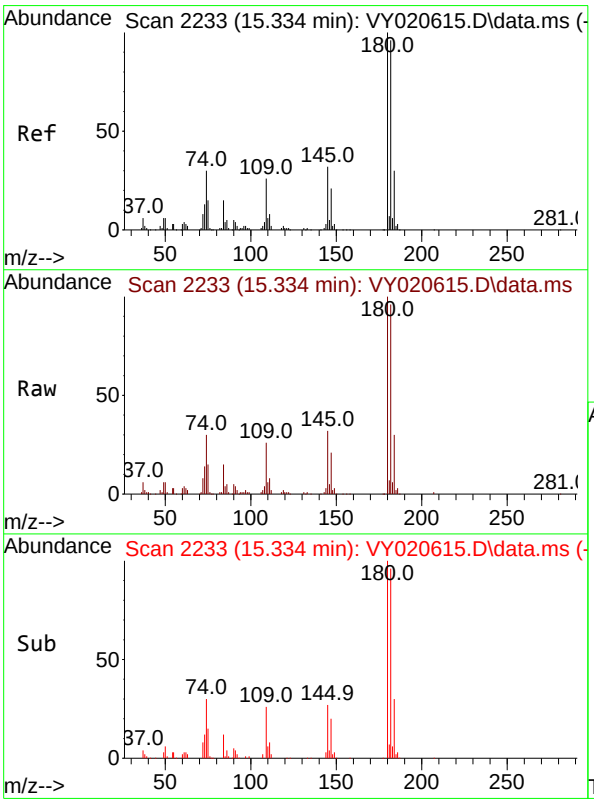

#95
Naphthalene
Concen: 52.434 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:128 Resp: 229979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.7 | 16.1 |
| 129 | 10.6 | 8.5 | 12.7 |

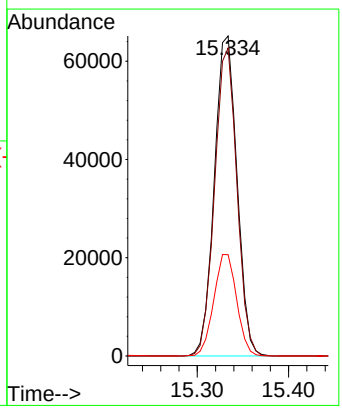



#96
1,2,3-Trichlorobenzene
Concen: 51.976 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020615.D
Acq: 17 Dec 2024 10:51

Tgt Ion:180 Resp: 112349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.6 | 47.3 | 141.9 |
| 145 | 32.0 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 175469 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 270859 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.413 | 117 | 241570 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.346 | 152 | 134321 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.060 | 65 | 177978 | 92.612 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 185.220%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 175849 | 92.118 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 184.240%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 619412 | 92.704 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 185.400%# | | | |
| 62) 4-Bromofluorobenzene | 12.401 | 95 | 234353 | 89.665 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 179.320%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.866 | 85 | 210949 | 96.249 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 149471 | 92.044 | ug/l | 98 |
| 4) Vinyl Chloride | 2.202 | 62 | 154262 | 102.062 | ug/l | 99 |
| 5) Bromomethane | 2.586 | 94 | 98824 | 101.715 | ug/l | 97 |
| 6) Chloroethane | 2.732 | 64 | 95621 | 102.376 | ug/l | 99 |
| 7) Trichlorofluoromethane | 3.055 | 101 | 308242 | 97.464 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 110471 | 99.599 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.811 | 101 | 227753 | 100.469 | ug/l | 99 |
| 10) Methyl Iodide | 4.000 | 142 | 272999 | 108.168 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.860 | 59 | 92710 | 533.746 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 224015 | 101.847 | ug/l | 100 |
| 13) Acrolein | 3.653 | 56 | 32525 | 357.929 | ug/l | 98 |
| 14) Allyl chloride | 4.384 | 41 | 401452 | 104.161 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 268782 | 506.539 | ug/l | 99 |
| 16) Acetone | 3.872 | 43 | 192907 | 512.024 | ug/l | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 734236 | 102.553 | ug/l | 99 |
| 18) Methyl Acetate | 4.384 | 43 | 137166 | 104.906 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 579813 | 102.132 | ug/l | 98 |
| 20) Methylene Chloride | 4.610 | 84 | 233323 | 97.650 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 242695 | 98.365 | ug/l | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 777568 | 99.391 | ug/l | 96 |
| 23) Vinyl Acetate | 5.957 | 43 | 2271891 | 512.739 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.914 | 63 | 456073 | 99.510 | ug/l | 99 |
| 25) 2-Butanone | 6.890 | 43 | 341489 | 478.150 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 402163 | 92.822 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 279676 | 98.523 | ug/l | 99 |
| 28) Bromochloromethane | 7.243 | 49 | 175710 | 113.661 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.262 | 42 | 230877 | 512.090 | ug/l | 100 |
| 30) Chloroform | 7.420 | 83 | 457070 | 105.160 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 407104 | 92.899 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.615 | 97 | 415073 | 98.578 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 337138 | 96.854 | ug/l | 99 |
| 37) Ethyl Acetate | 6.981 | 43 | 160241 | 97.867 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 377406 | 97.998 | ug/l | 100 |
| 39) Methylcyclohexane | 9.109 | 83 | 440006 | 96.986 | ug/l | 99 |
| 40) Benzene | 8.079 | 78 | 1000543 | 98.064 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 99381 | 114.810 | ug/l | # | 86 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 270045 | 99.793 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 318902 | 102.879 | ug/l | | 99 |
| 44) Trichloroethene | 8.865 | 130 | 245474 | 97.912 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 9.139 | 63 | 238605 | 100.062 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 126063 | 100.032 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 339720 | 99.796 | ug/l | | 97 |
| 48) Methyl methacrylate | 9.219 | 41 | 154845 | 105.079 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 29870 | 2066.774 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 814840 | 498.015 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 631368 | 99.573 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.389 | 75 | 330795 | 104.287 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 386715 | 102.884 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 167205 | 100.352 | ug/l | | 95 |
| 56) Ethyl methacrylate | 10.438 | 69 | 263694 | 109.090 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.712 | 76 | 299884 | 100.965 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.706 | 63 | 536306 | 527.303 | ug/l | | 100 |
| 59) 2-Hexanone | 10.755 | 43 | 548285 | 521.929 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.907 | 129 | 228154 | 102.389 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.011 | 107 | 156883 | 101.225 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.645 | 164 | 215415 | 94.803 | ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 667347 | 98.800 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 229790 | 99.489 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.517 | 91 | 1228775 | 98.607 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 910536 | 196.521 | ug/l | | 99 |
| 69) o-Xylene | 11.956 | 106 | 428727 | 99.174 | ug/l | | 97 |
| 70) Styrene | 11.968 | 104 | 725167 | 100.401 | ug/l | | 100 |
| 71) Bromoform | 12.133 | 173 | 131589 | 101.332 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 1150948 | 98.191 | ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 292377 | 106.582 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 190664 | 100.209 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 256421 | 185.352 | ug/l | # | 100 |
| 77) Bromobenzene | 12.529 | 156 | 253587 | 99.317 | ug/l | | 100 |
| 78) n-propylbenzene | 12.596 | 91 | 1383699 | 97.980 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.675 | 91 | 787764 | 99.147 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.736 | 105 | 933106 | 98.108 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 70365 | 105.852 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 804177 | 97.558 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 853675 | 99.108 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.041 | 105 | 921051 | 98.727 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.175 | 105 | 1220465 | 97.450 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 1023181 | 99.089 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.285 | 146 | 492097 | 97.633 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.364 | 146 | 482756 | 96.707 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.614 | 91 | 966758 | 98.789 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 202399 | 98.910 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 430383 | 98.552 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 30584 | 99.008 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 276806 | 104.790 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 170325 | 98.635 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 511948 | 113.046 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.327 | 180 | 234803 | 105.207 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

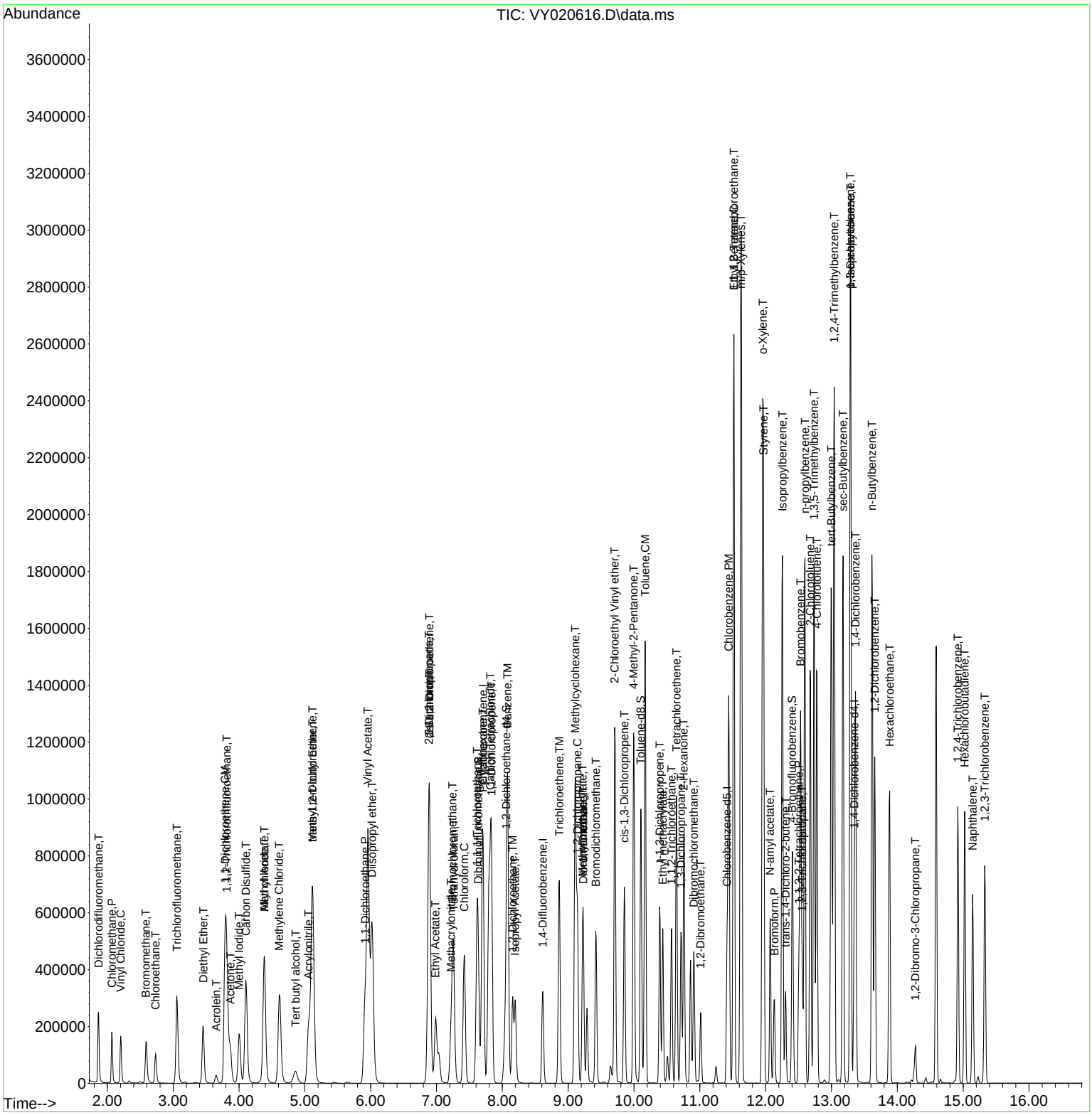
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

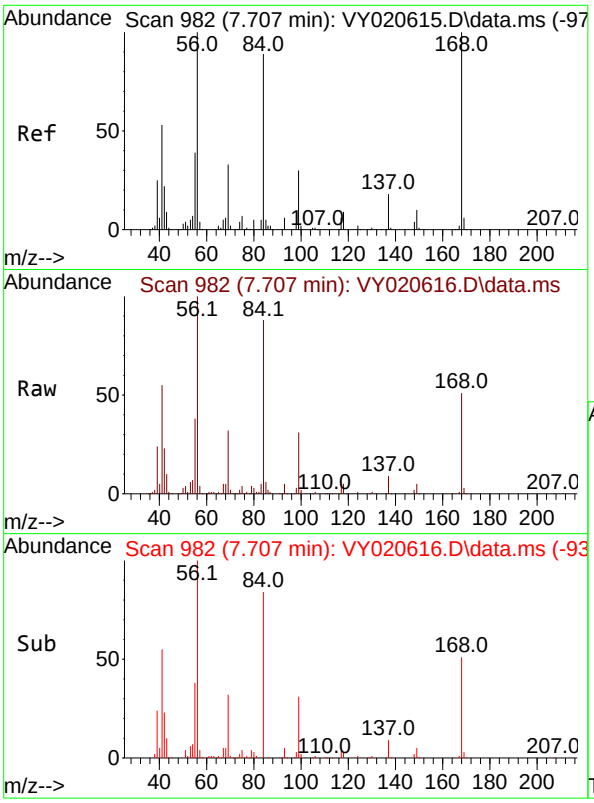
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020616.D
Acq On : 17 Dec 2024 11:14
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Dec 18 04:53:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration



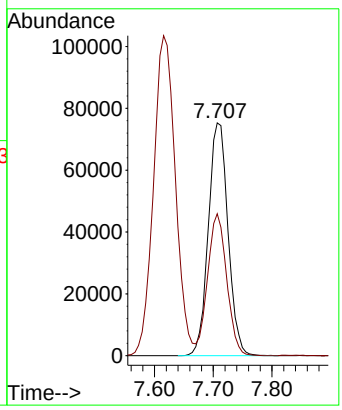


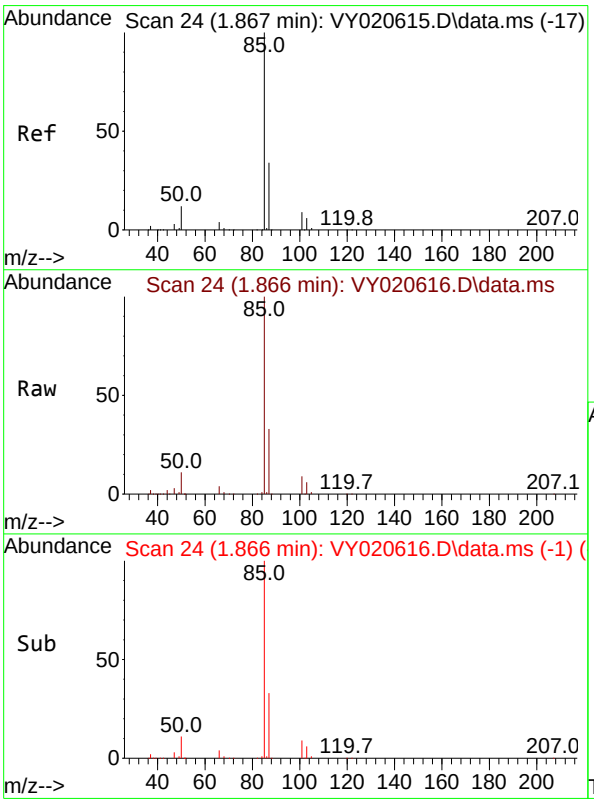

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:168 Resp: 175469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.0 | 47.0 | 70.6 |

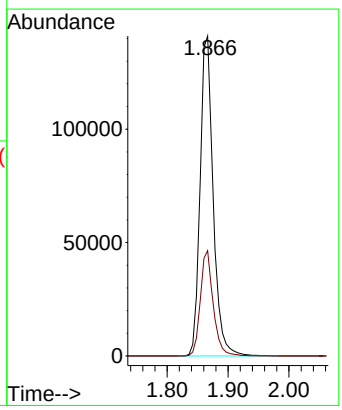


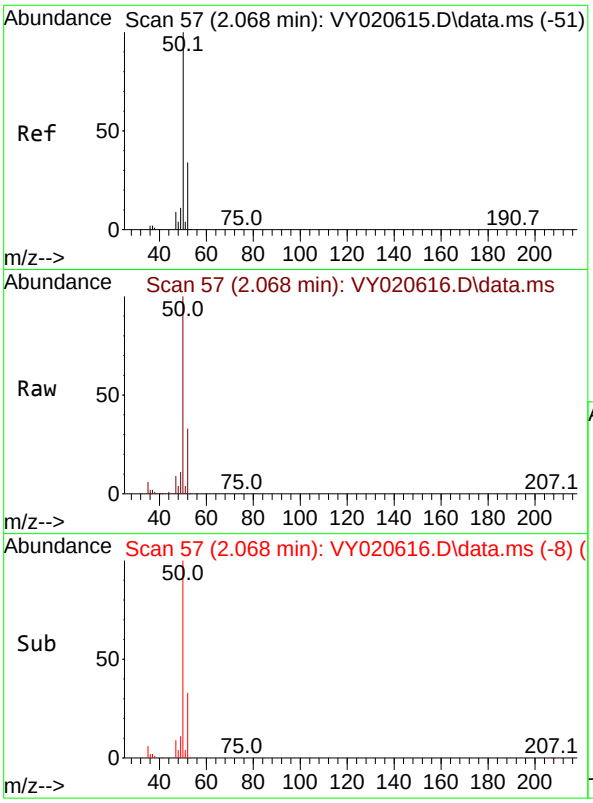




#2
Dichlorodifluoromethane
Concen: 96.249 ug/l
RT: 1.866 min Scan# 24
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 85 Resp: 210949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.9 | 16.8 | 50.3 |



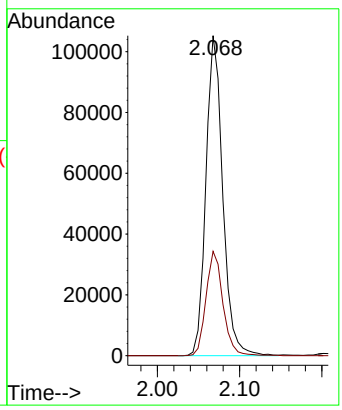


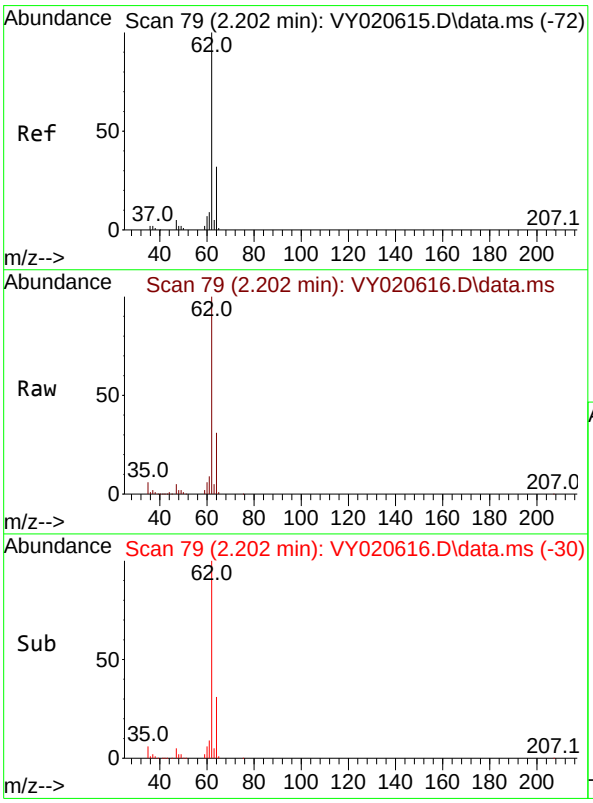

#3
Chloromethane
Concen: 92.044 ug/l
RT: 2.068 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 50 Resp: 149471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.6 | 26.8 | 40.2 |

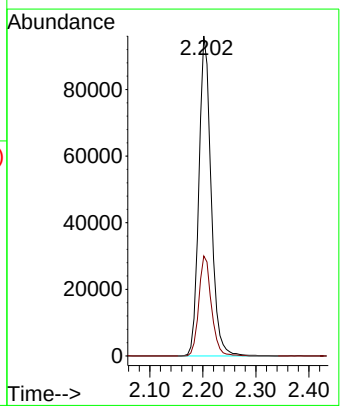


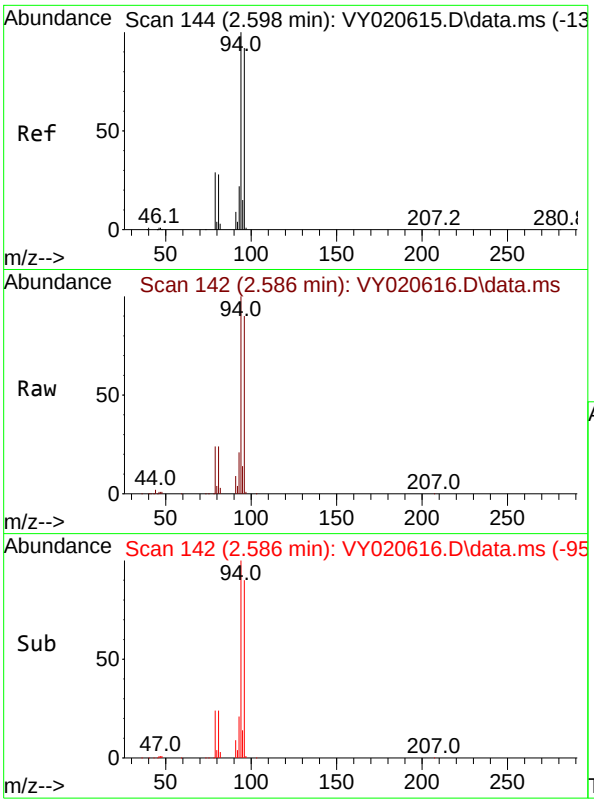




#4
Vinyl Chloride
Concen: 102.062 ug/l
RT: 2.202 min Scan# 79
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 62 Resp: 154262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.3 | 25.3 | 37.9 |



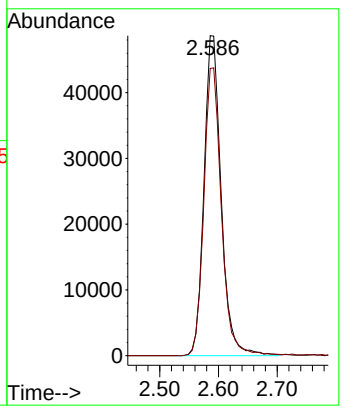


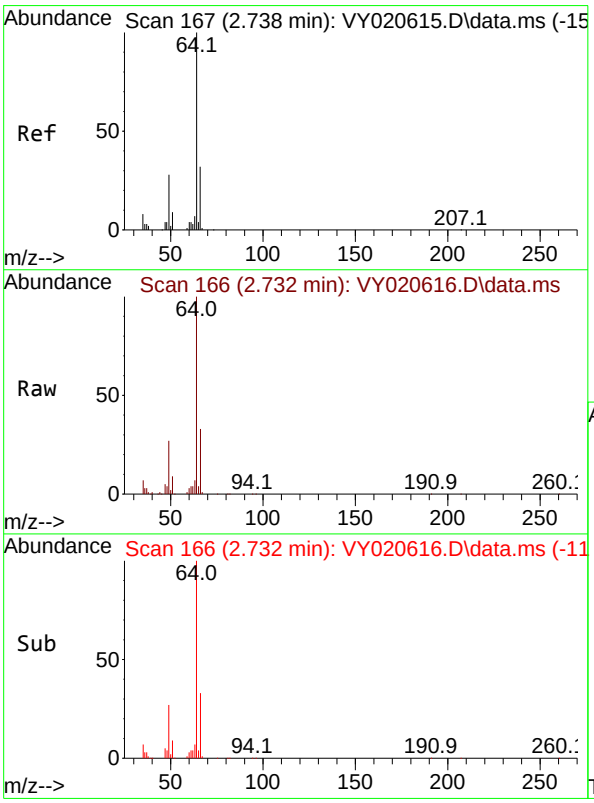

#5
Bromomethane
Concen: 101.715 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 94 Resp: 98824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.7 | 73.8 | 110.6 |

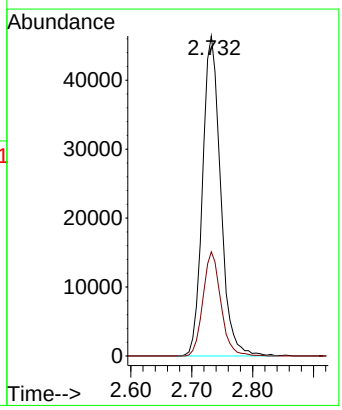


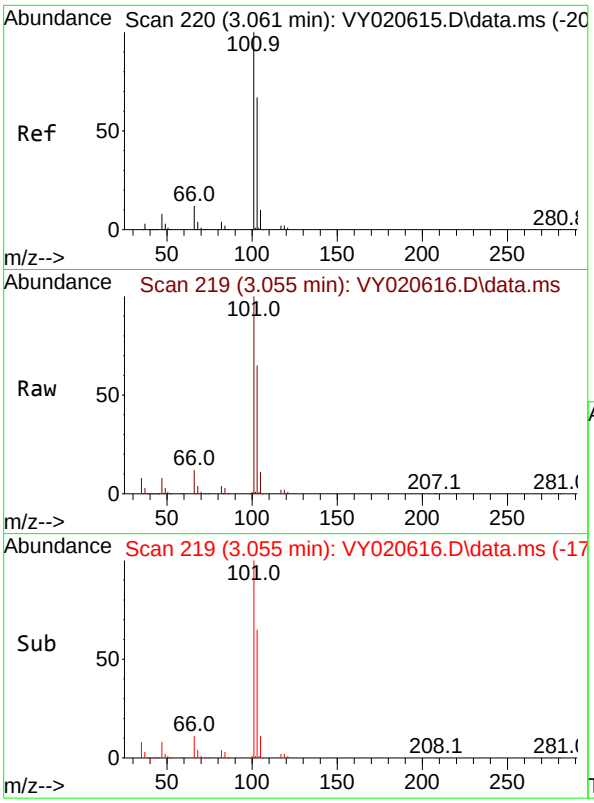




#6
Chloroethane
Concen: 102.376 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 64 Resp: 95621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.6 | 25.8 | 38.6 |



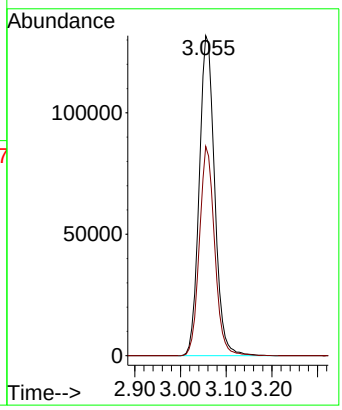


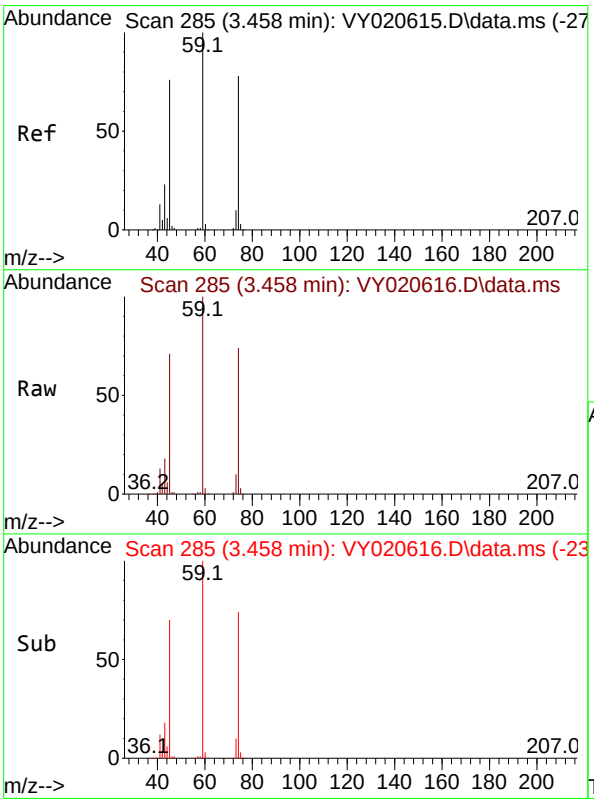

#7
Trichlorofluoromethane
Concen: 97.464 ug/l
RT: 3.055 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 308242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.4 | 53.4 | 80.0 |

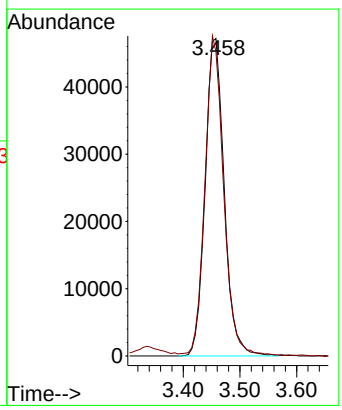


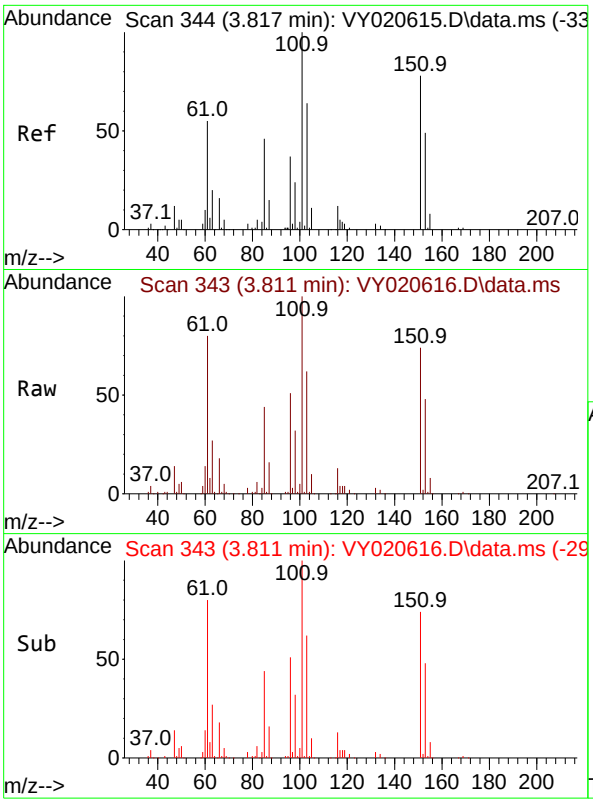




#8
Diethyl Ether
Concen: 99.599 ug/l
RT: 3.458 min Scan# 285
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 74 Resp: 110471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.7 | 49.0 | 147.2 |



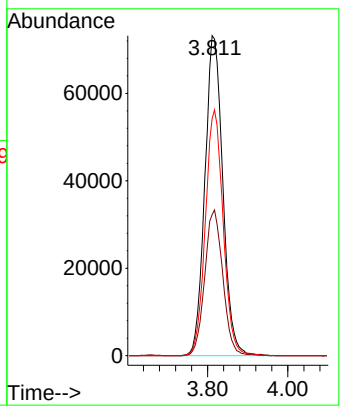


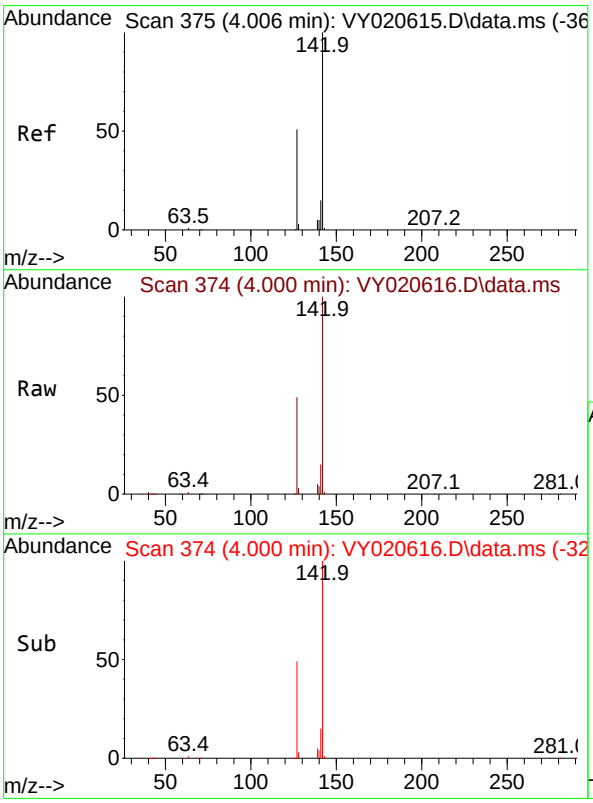

#9
1,1,2-Trichlorotrifluoroethane
Concen: 100.469 ug/l
RT: 3.811 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 227753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.9 | 36.6 | 54.8 |
| 151 | 76.3 | 61.5 | 92.3 |

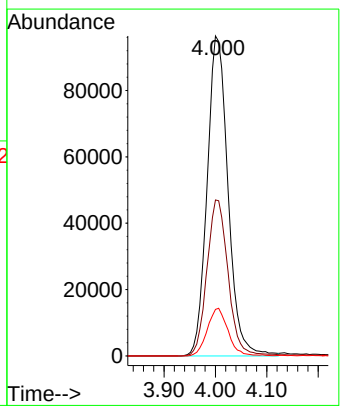


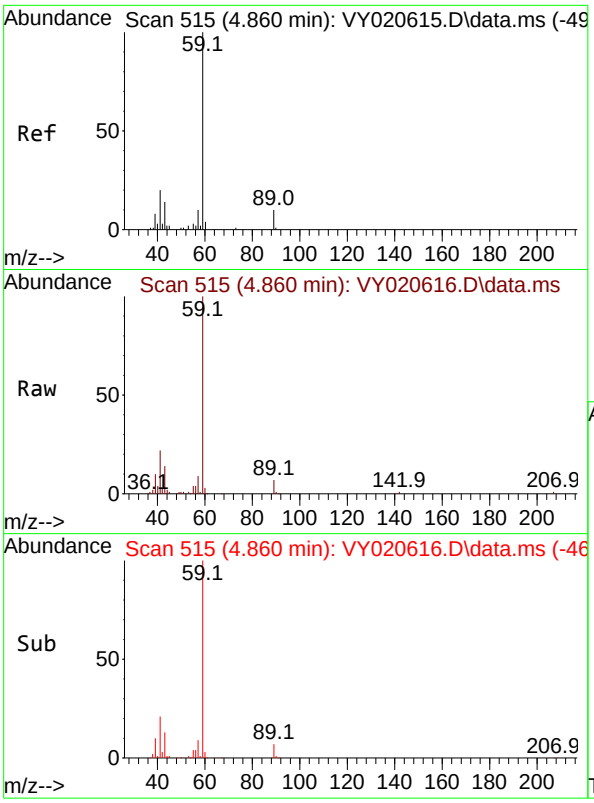




#10
Methyl Iodide
Concen: 108.168 ug/l
RT: 4.000 min Scan# 374
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:142 Resp: 272999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 49.5 | 40.6 | 61.0 |
| 141 | 14.8 | 11.7 | 17.5 |



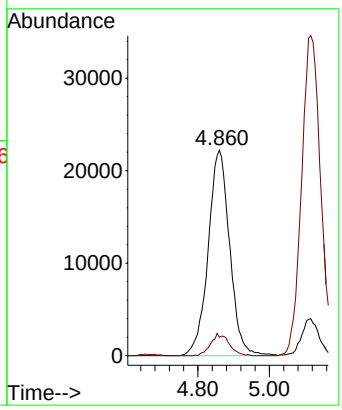


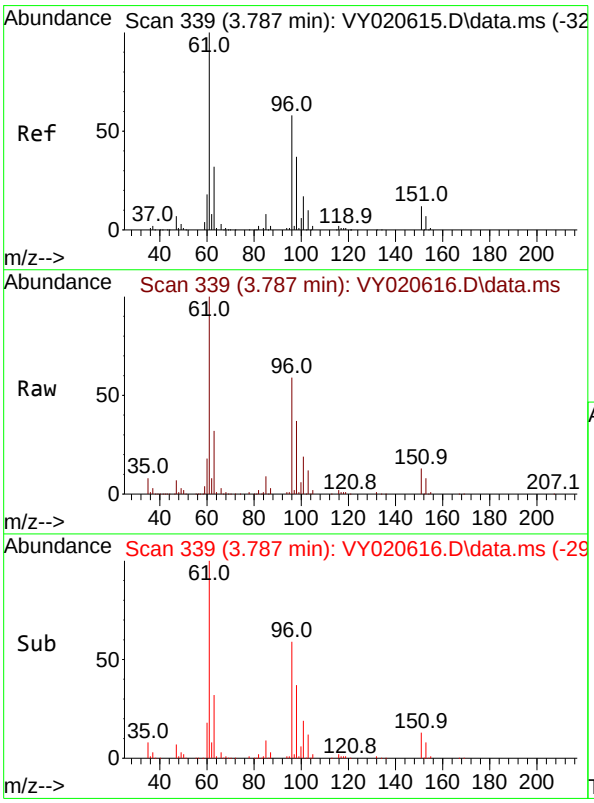

#11
Tert butyl alcohol
Concen: 533.746 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 59 Resp: 92710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.1 | 7.4 | 11.0 |

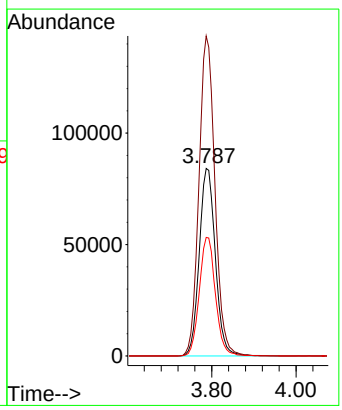


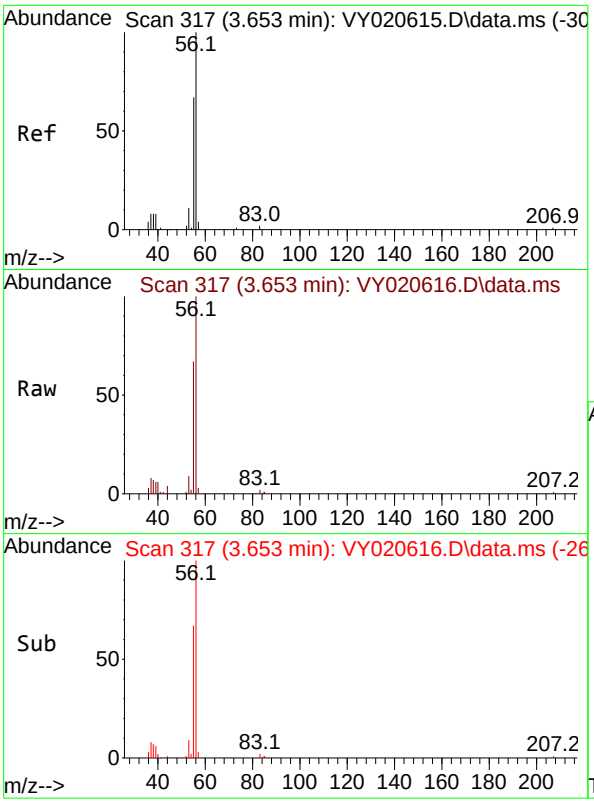




#12
1,1-Dichloroethene
Concen: 101.847 ug/l
RT: 3.787 min Scan# 339
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 96 Resp: 224015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.6 | 136.9 | 205.3 |
| 98 | 63.2 | 50.2 | 75.4 |



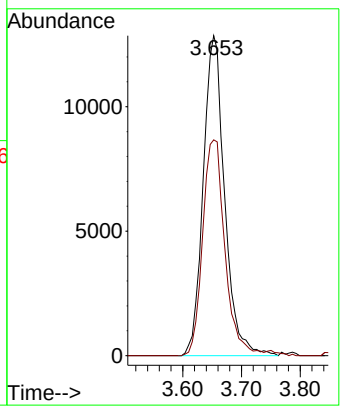


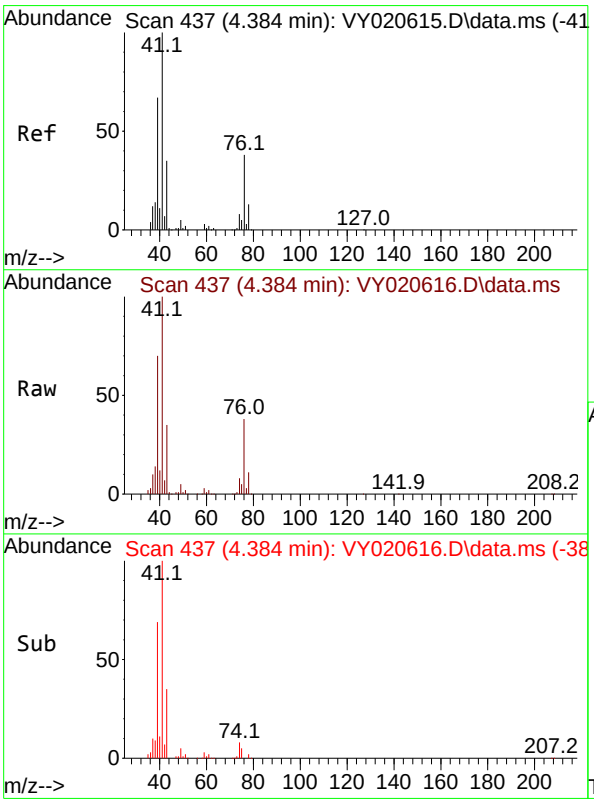

#13
Acrolein
Concen: 357.929 ug/l
RT: 3.653 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 32525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.0 | 57.5 | 86.3 |

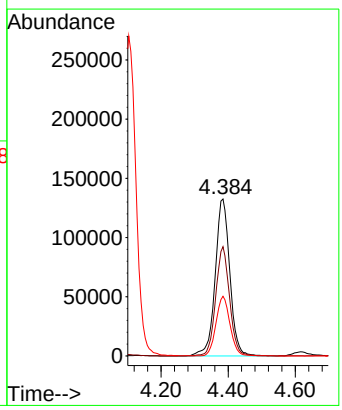


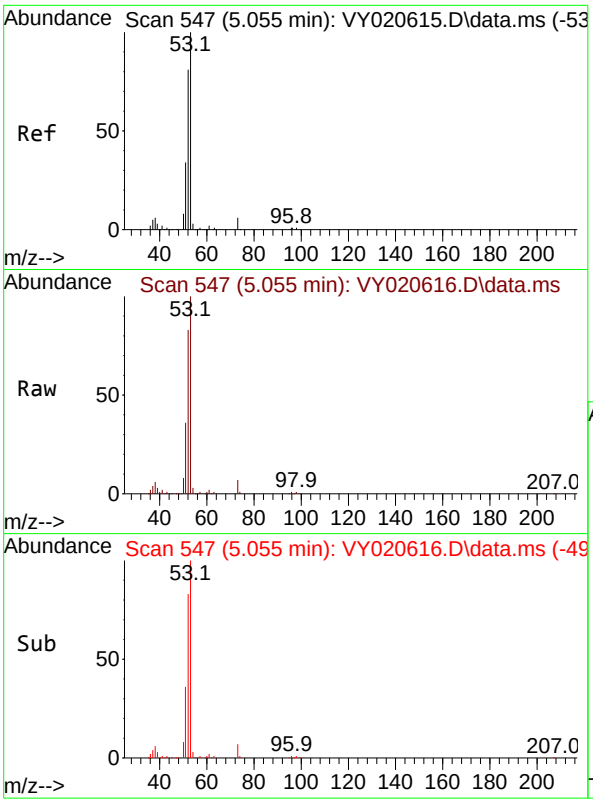




#14
Allyl chloride
Concen: 104.161 ug/l
RT: 4.384 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 41 Resp: 401452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.2 | 53.0 | 79.4 |
| 76 | 36.1 | 29.5 | 44.3 |



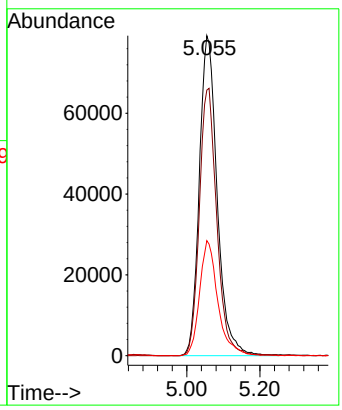


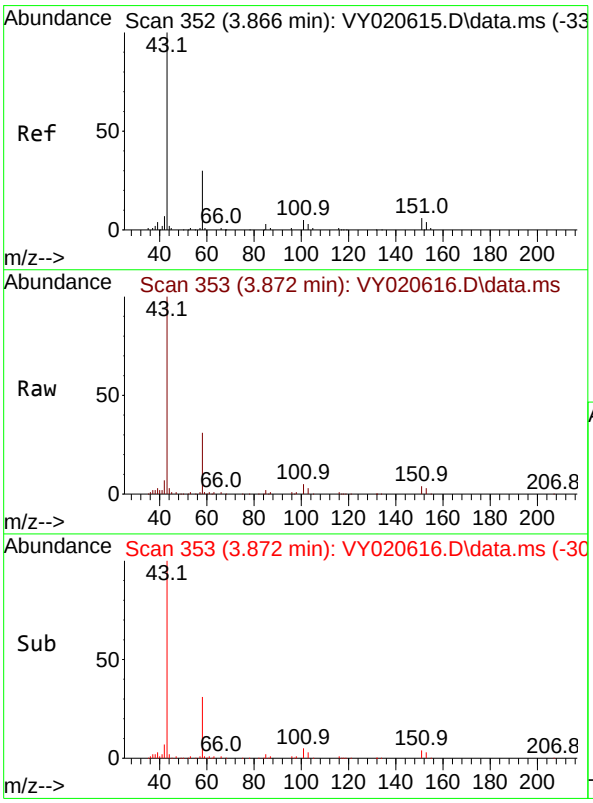

#15
Acrylonitrile
Concen: 506.539 ug/l
RT: 5.055 min Scan# 54
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 53 Resp: 268782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.7 | 64.5 | 96.7 |
| 51 | 36.7 | 29.4 | 44.0 |

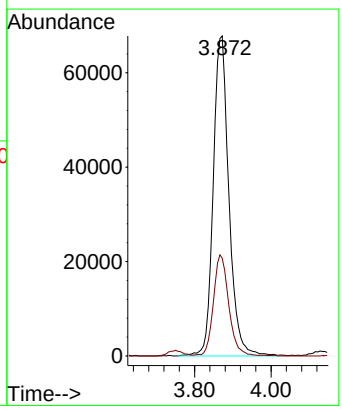


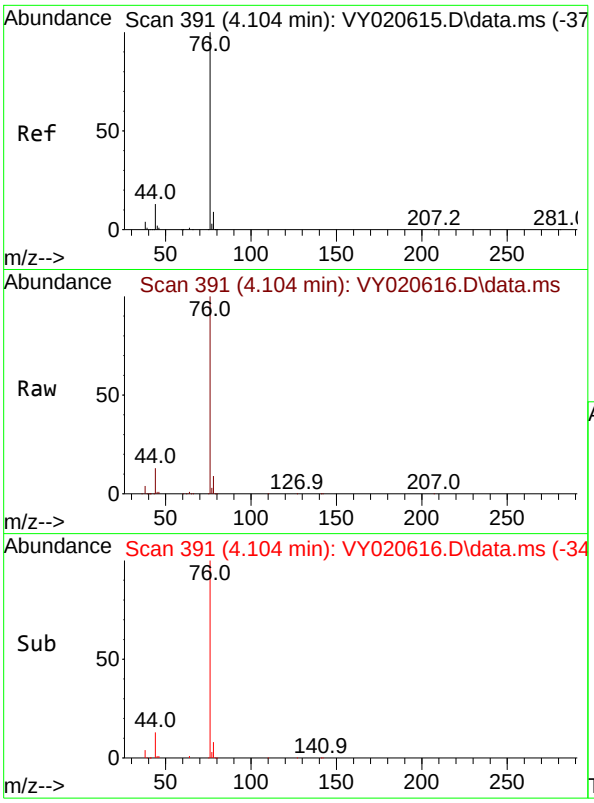




#16
Acetone
Concen: 512.024 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 192907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.6 | 25.0 | 37.6 |



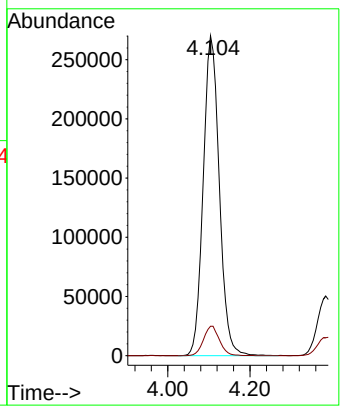


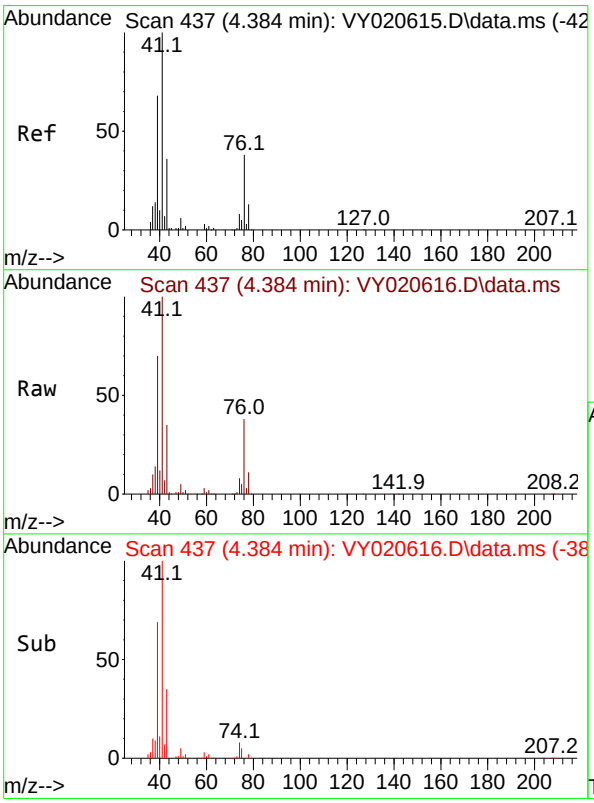

#17
Carbon Disulfide
Concen: 102.553 ug/l
RT: 4.104 min Scan# 3
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 734236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.2 | 10.8 |

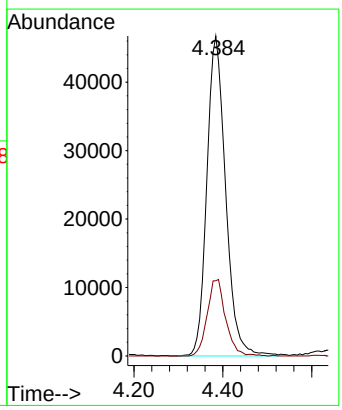


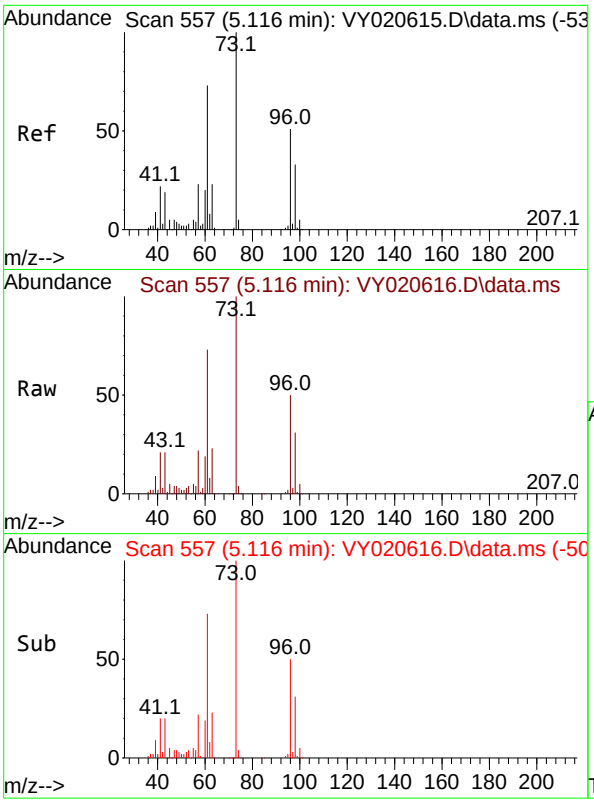




#18
Methyl Acetate
Concen: 104.906 ug/l
RT: 4.384 min Scan# 437
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 137166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.5 | 19.2 | 28.8 |



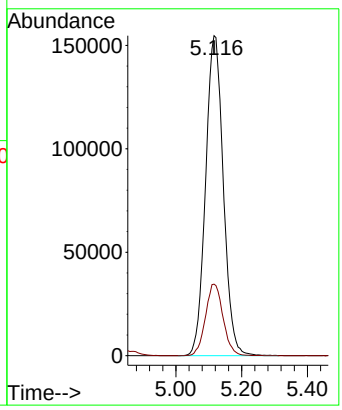


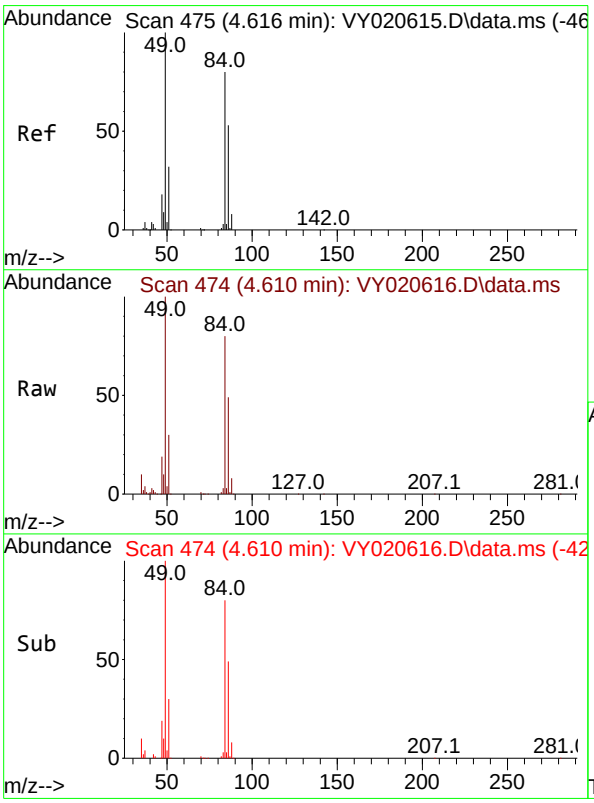

#19
Methyl tert-butyl Ether
Concen: 102.132 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 73 Resp: 579813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.4 | 18.5 | 27.7 |

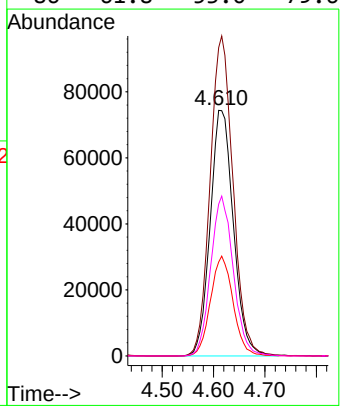


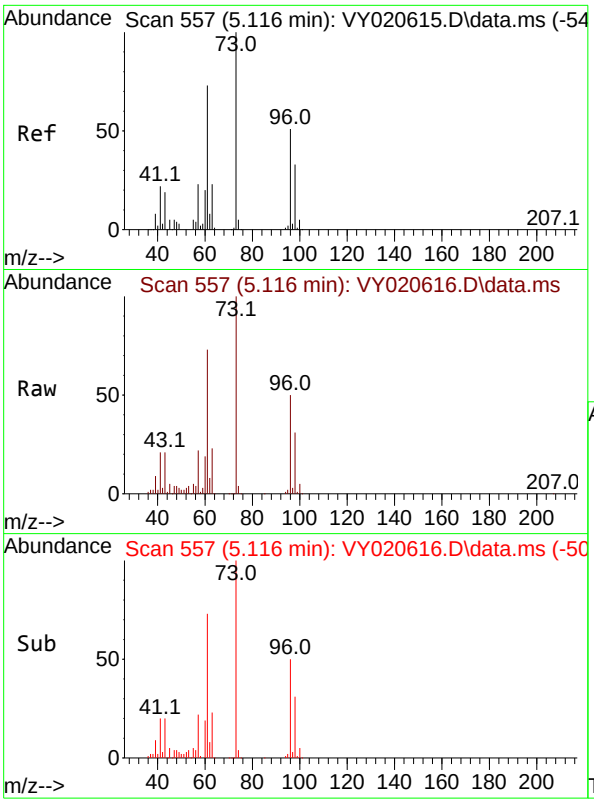




#20
Methylene Chloride
Concen: 97.650 ug/l
RT: 4.610 min Scan# 474
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 84 Resp: 233323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.5 | 100.7 | 151.1 |
| 51 | 38.2 | 32.2 | 48.2 |
| 86 | 61.8 | 53.0 | 79.6 |



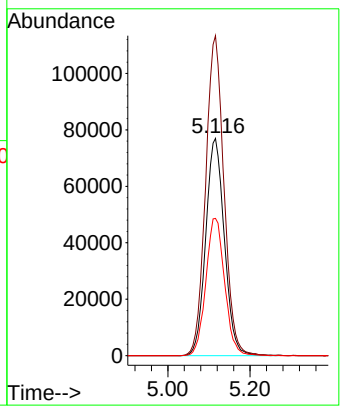


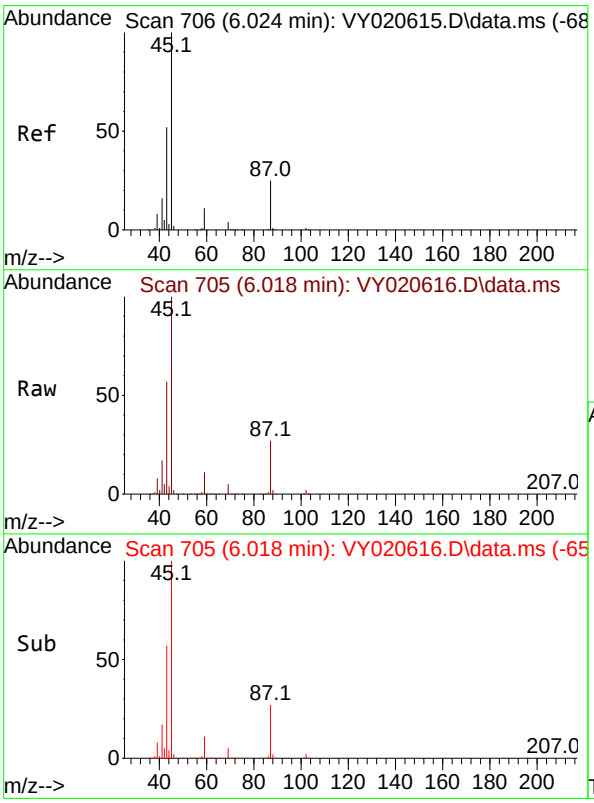

#21
trans-1,2-Dichloroethene
Concen: 98.365 ug/l
RT: 5.116 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 242695

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.3 | 113.7 | 170.5 |
| 98 | 63.2 | 51.7 | 77.5 |

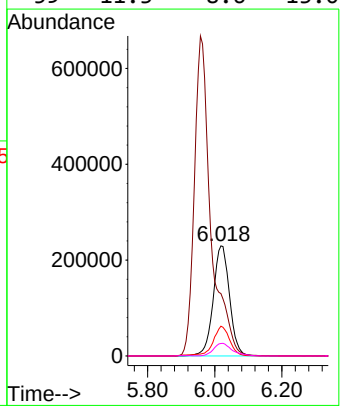


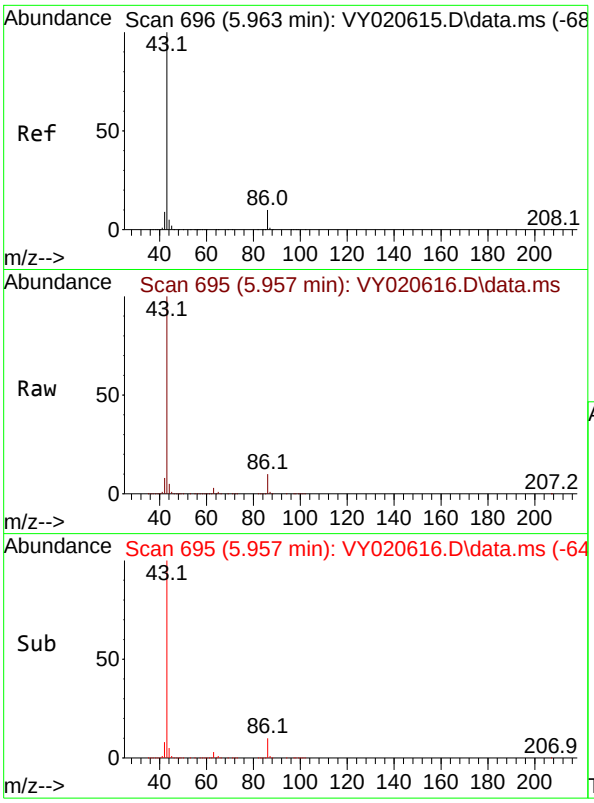




#22
Diisopropyl ether
Concen: 99.391 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 45 Resp: 777568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.5 | 42.6 | 64.0 |
| 87 | 27.1 | 20.6 | 31.0 |
| 59 | 11.3 | 8.6 | 13.0 |



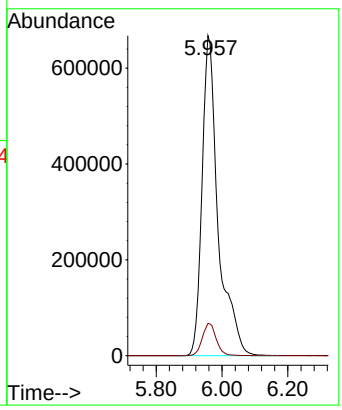


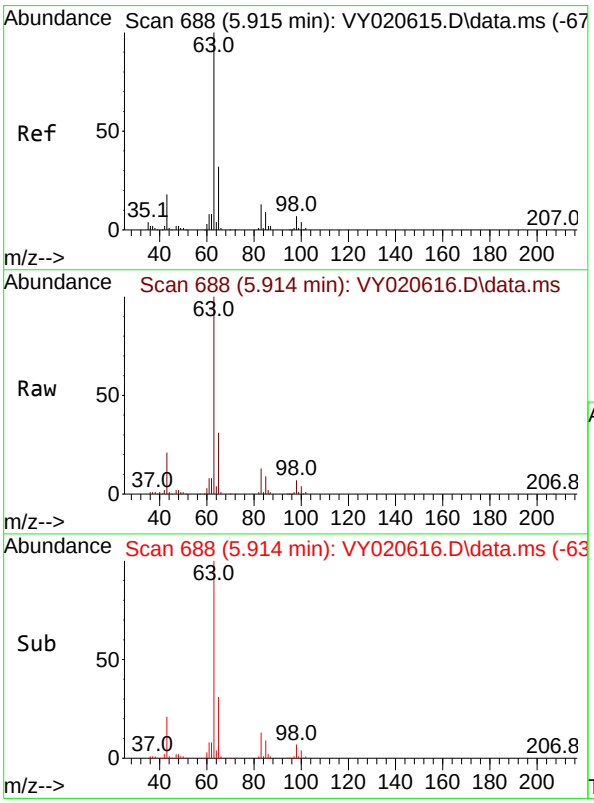

#23
Vinyl Acetate
Concen: 512.739 ug/l
RT: 5.957 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 2271891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.1 | 8.1 | 12.1 |

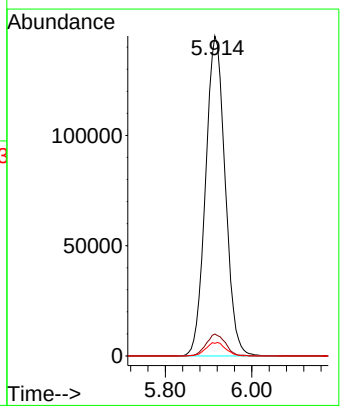


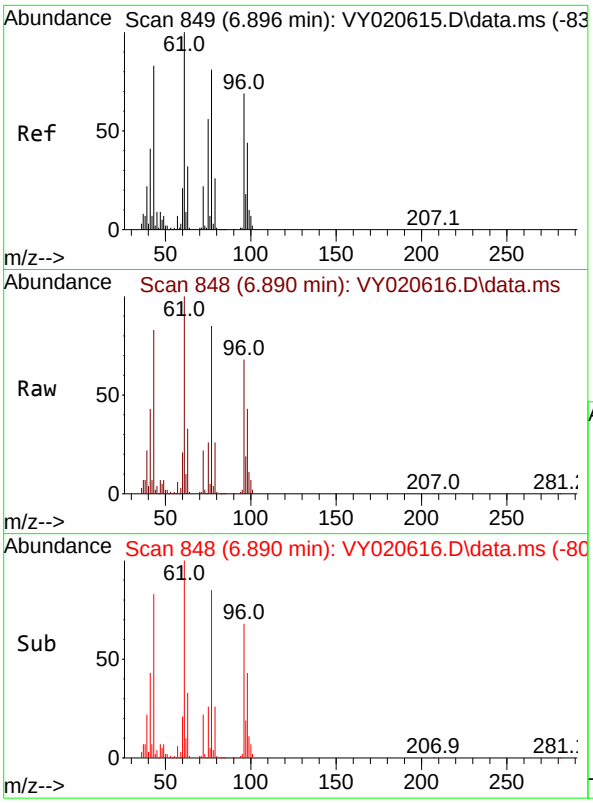




#24
1,1-Dichloroethane
Concen: 99.510 ug/l
RT: 5.914 min Scan# 688
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 63 Resp: 456073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 3.4 | 10.1 |
| 100 | 4.0 | 2.1 | 6.5 |



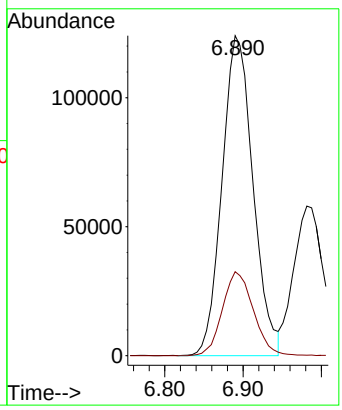


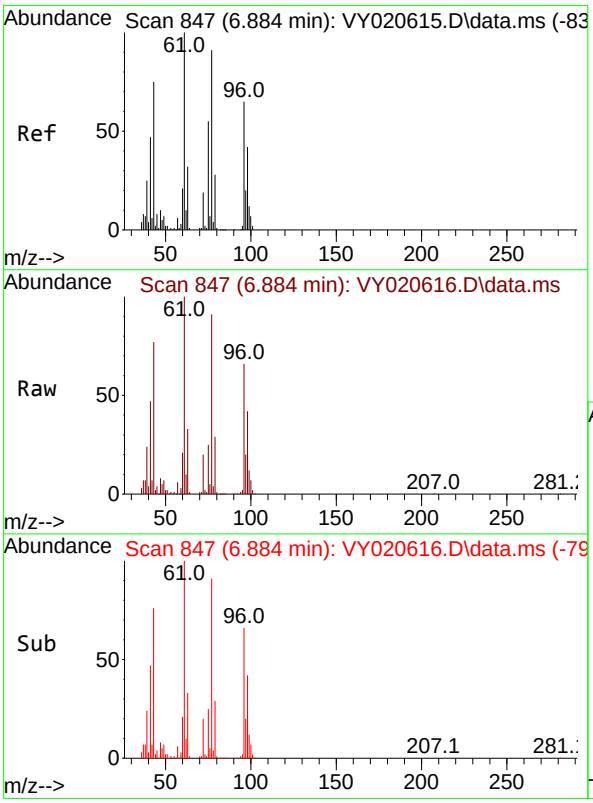

#25
2-Butanone
Concen: 478.150 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 341489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.2 | 20.6 | 31.0 |

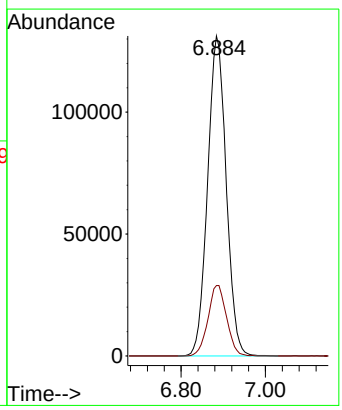


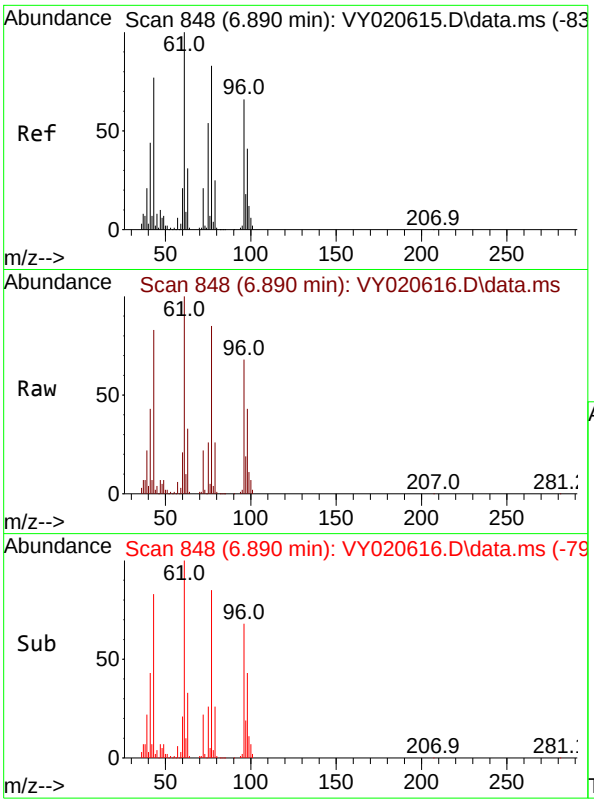




#26
2,2-Dichloropropane
Concen: 92.822 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 77 Resp: 402163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |



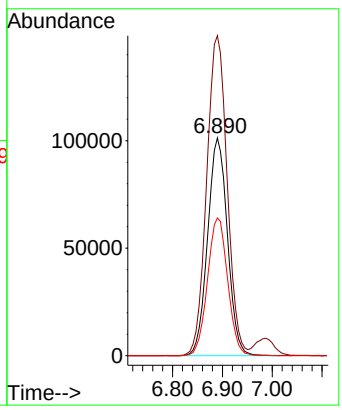


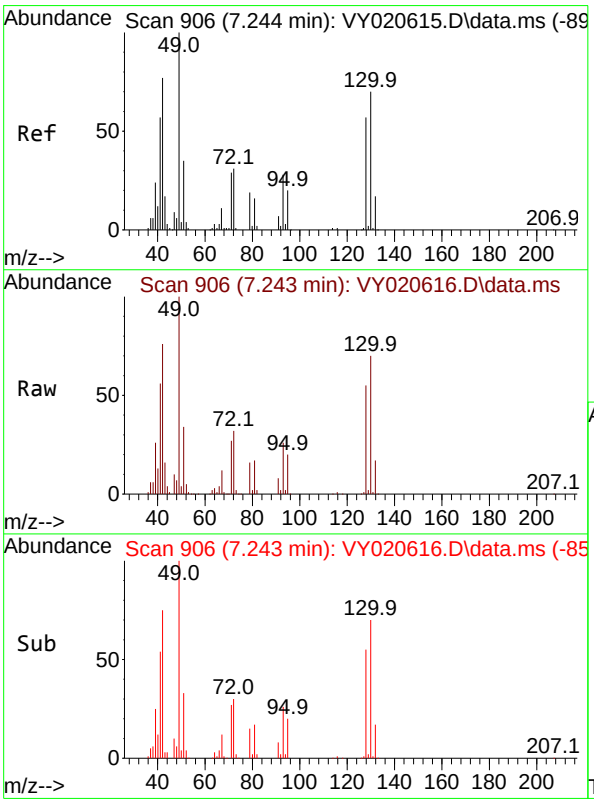

#27
cis-1,2-Dichloroethene
Concen: 98.523 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 279676

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.7 | 0.0 | 306.2 |
| 98 | 64.4 | 0.0 | 127.2 |

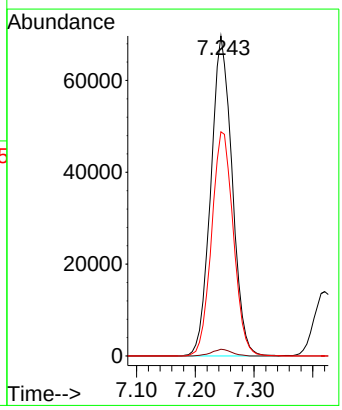


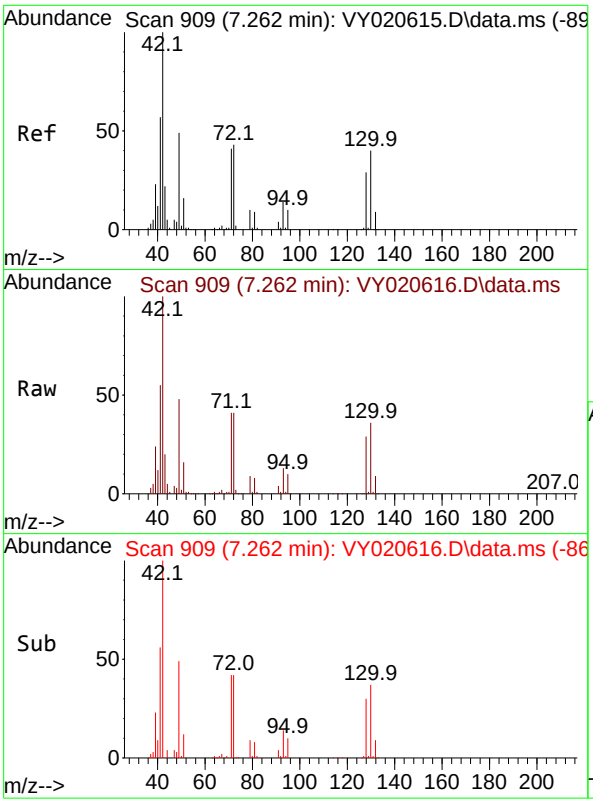




#28
Bromochloromethane
Concen: 113.661 ug/l
RT: 7.243 min Scan# 906
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 49 Resp: 175710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 3.8 |
| 130 | 71.4 | 58.3 | 87.5 |



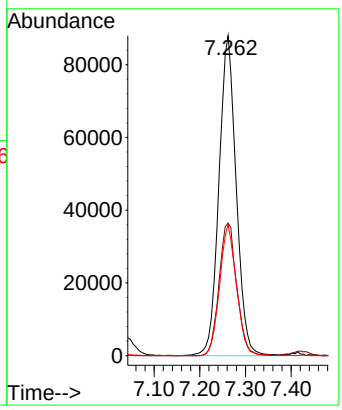


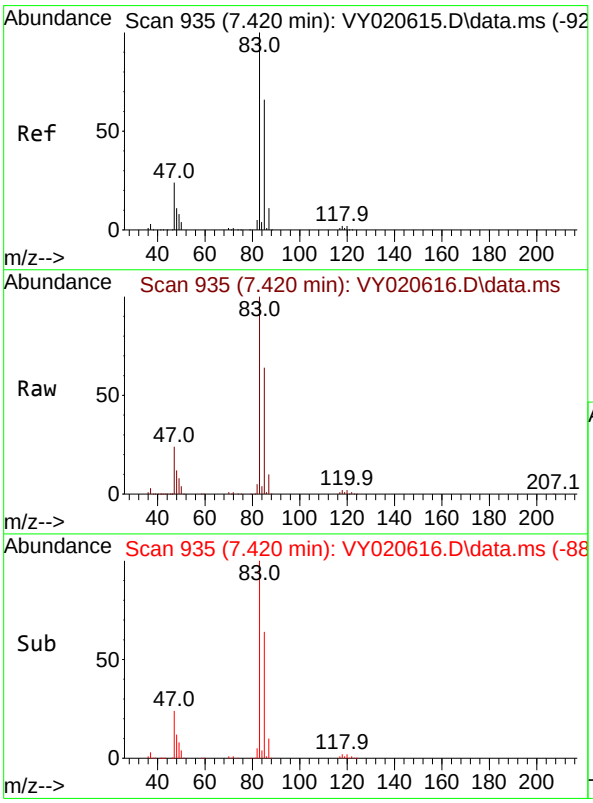

#29
Tetrahydrofuran
Concen: 512.090 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 42 Resp: 230877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.4 | 34.0 | 51.0 |
| 71 | 39.9 | 31.6 | 47.4 |

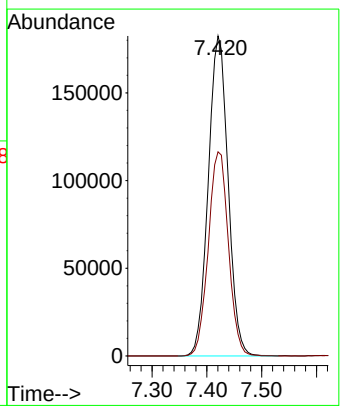


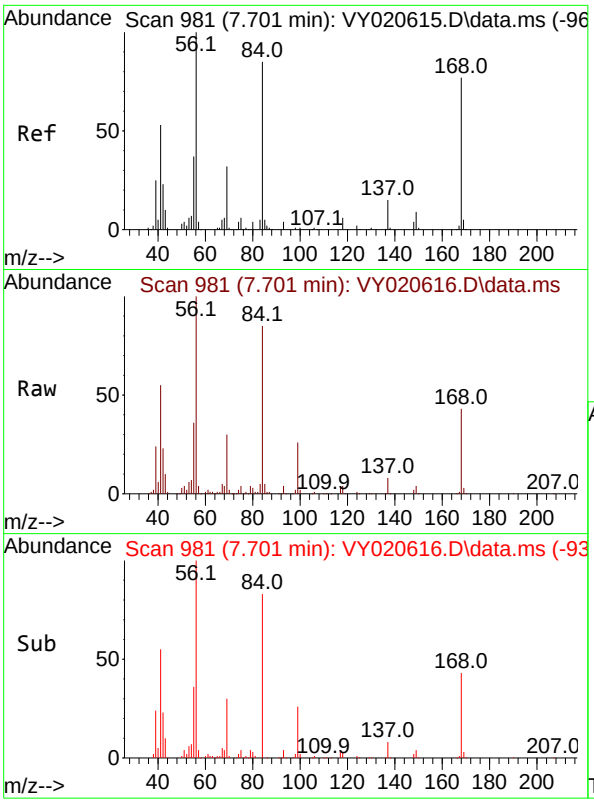




#30
Chloroform
Concen: 105.160 ug/l
RT: 7.420 min Scan# 935
Delta R.T. 0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 83 Resp: 457070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 52.7 | 79.1 |



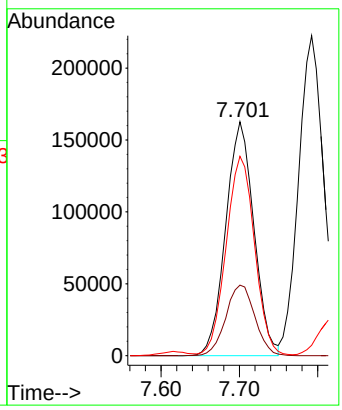


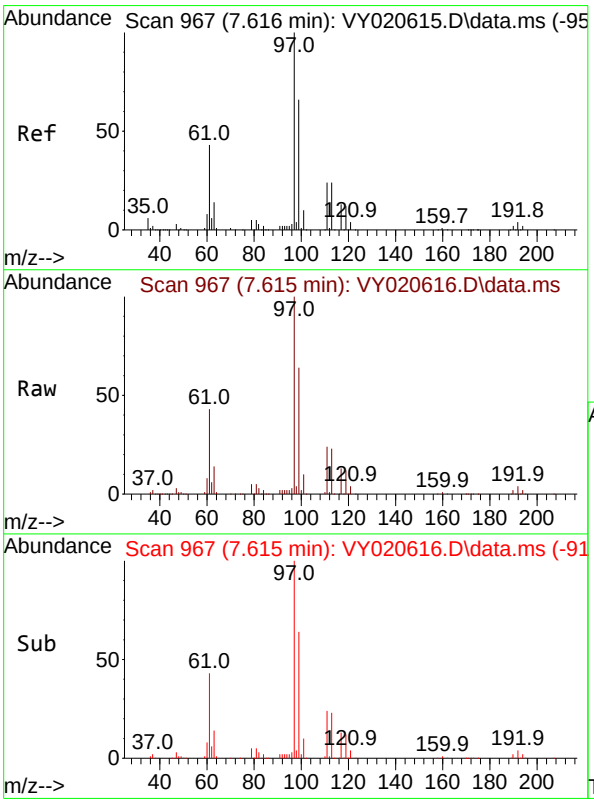

#31
Cyclohexane
Concen: 92.899 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 407104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.2 | 25.4 | 38.0 |
| 84 | 83.7 | 68.3 | 102.5 |

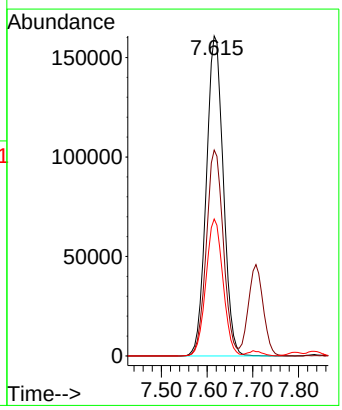


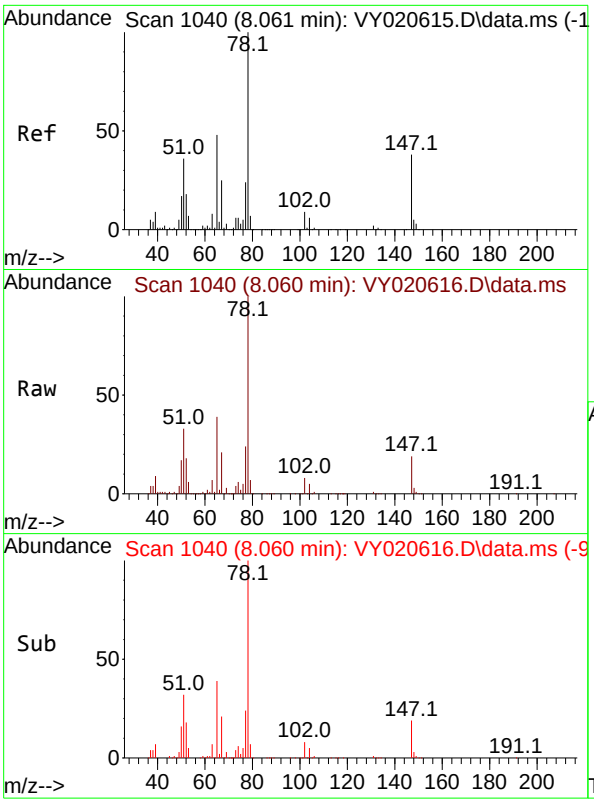




#32
1,1,1-Trichloroethane
Concen: 98.578 ug/l
RT: 7.615 min Scan# 967
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 97 Resp: 415073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.6 | 77.4 |
| 61 | 43.0 | 34.7 | 52.1 |



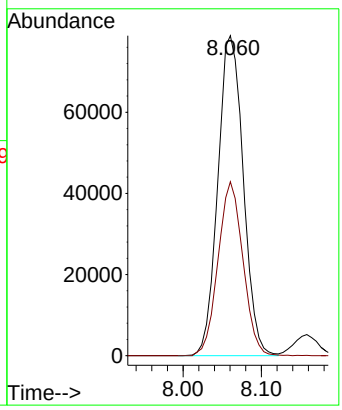


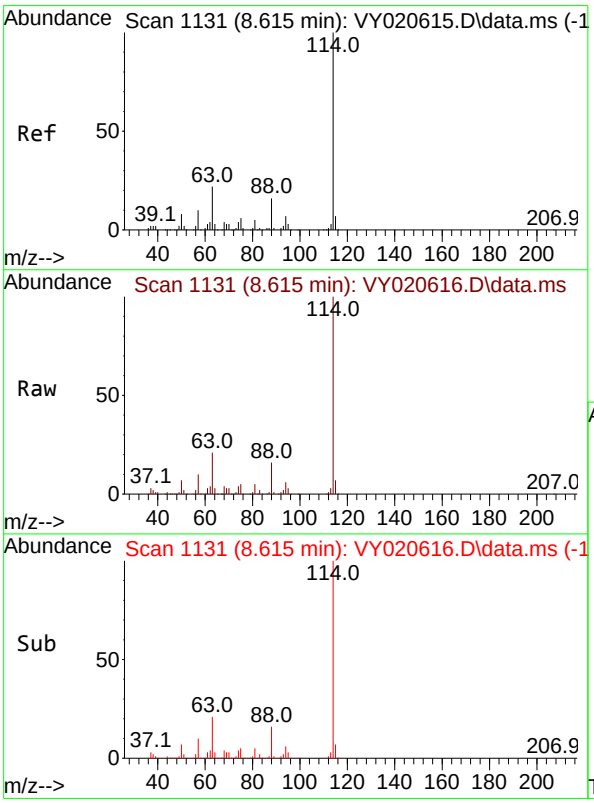

#33
1,2-Dichloroethane-d4
Concen: 92.612 ug/l
RT: 8.060 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 65 Resp: 177978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.2 | 0.0 | 108.0 |

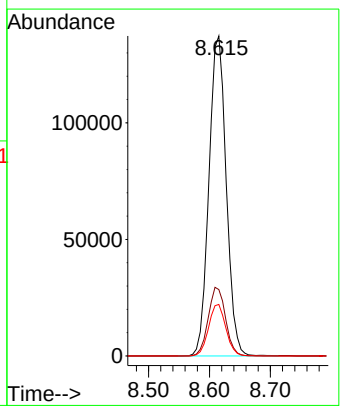


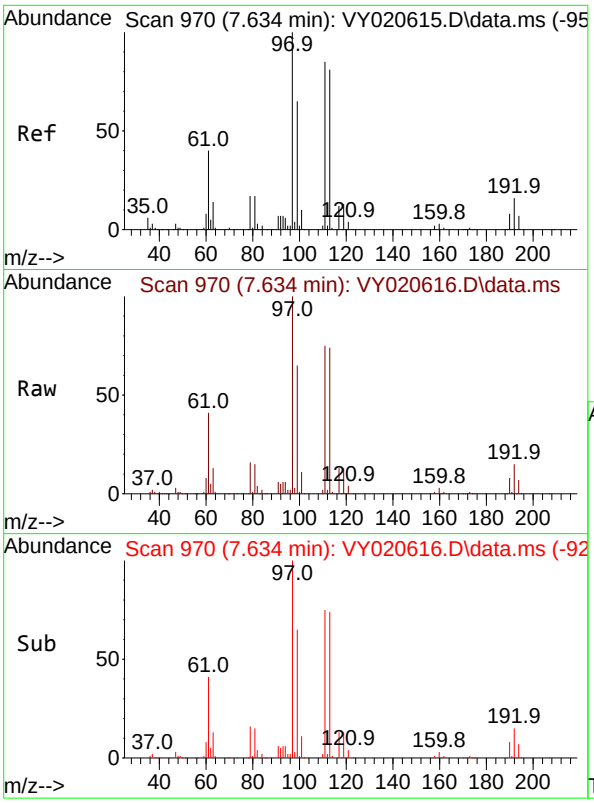




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:114 Resp: 270859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.8 | 0.0 | 44.0 |
| 88 | 16.1 | 0.0 | 32.8 |



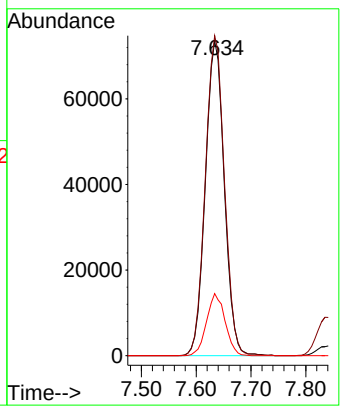


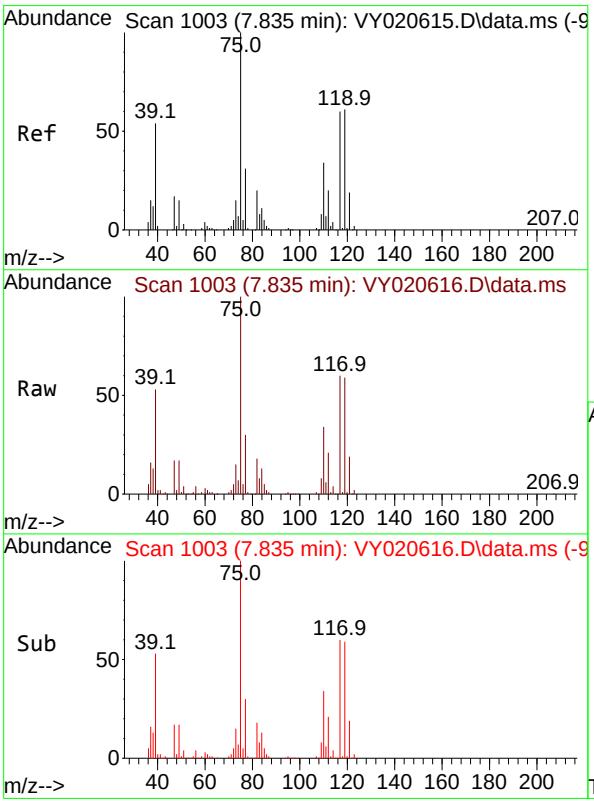

#35
Dibromofluoromethane
Concen: 92.118 ug/l
RT: 7.634 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:113 Resp: 175849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 82.9 | 124.3 |
| 192 | 19.3 | 15.7 | 23.5 |

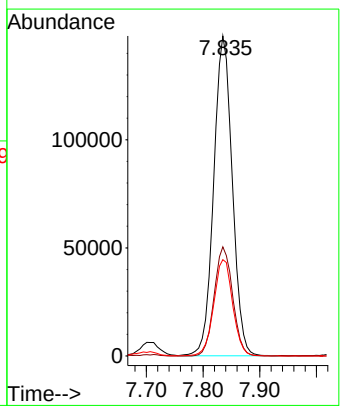


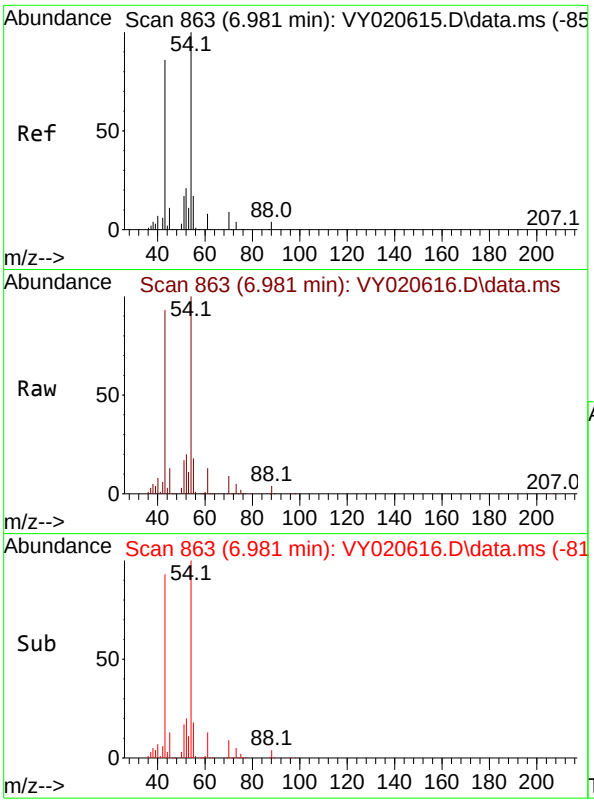




#36
1,1-Dichloropropene
Concen: 96.854 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 75 Resp: 337138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.9 | 16.8 | 50.4 |
| 77 | 30.7 | 25.0 | 37.6 |



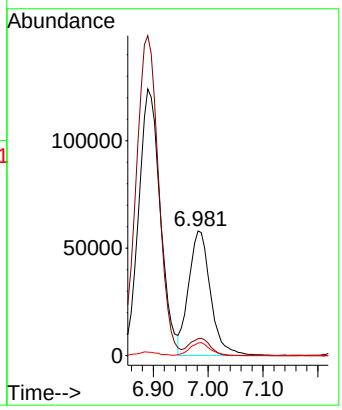


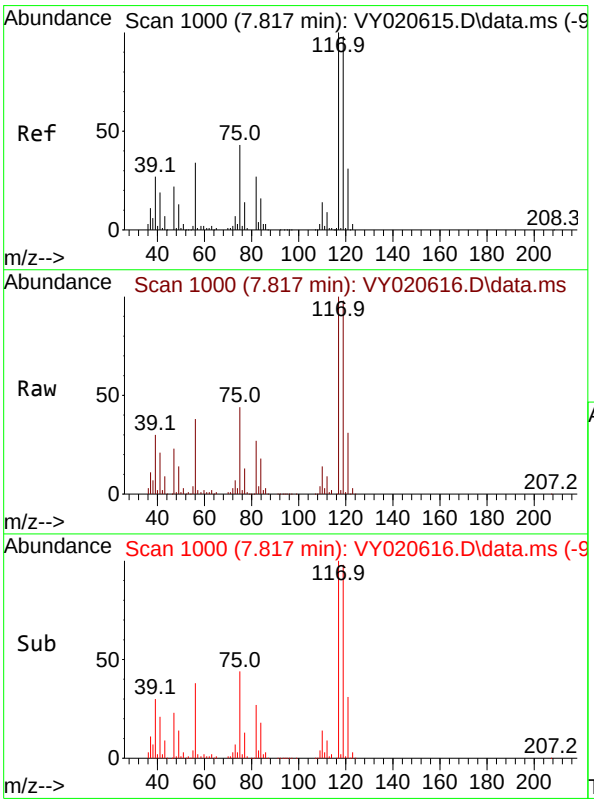

#37
Ethyl Acetate
Concen: 97.867 ug/l
RT: 6.981 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 160241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 11.0 | 16.4 |
| 70 | 9.9 | 7.9 | 11.9 |

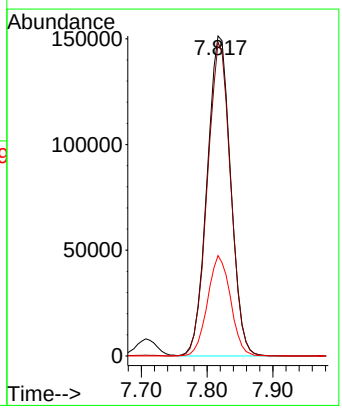


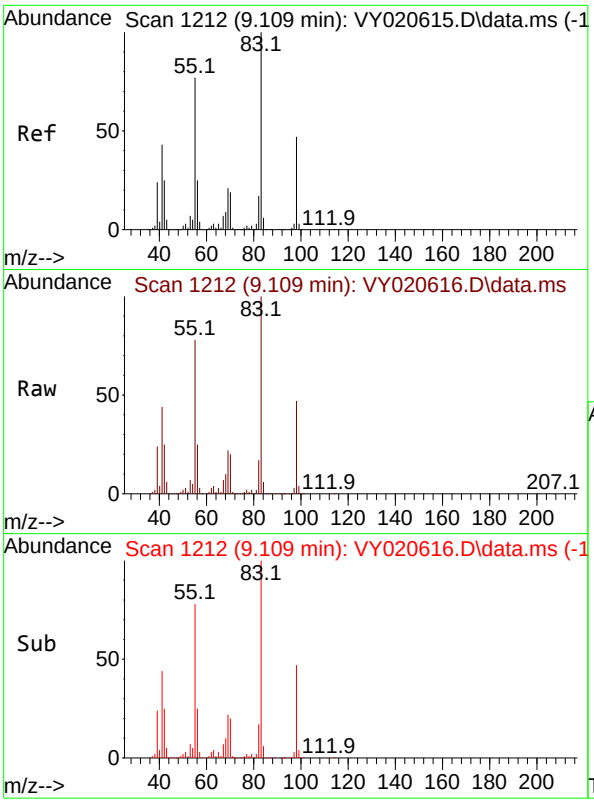




#38
Carbon Tetrachloride
Concen: 97.998 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:117 Resp: 377406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.9 | 78.3 | 117.5 |
| 121 | 31.4 | 25.1 | 37.7 |



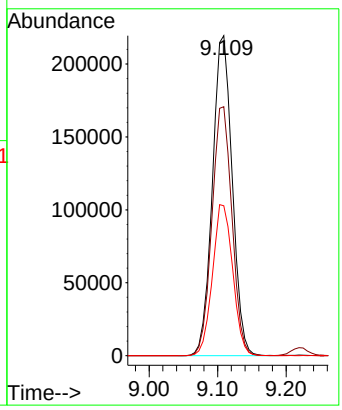


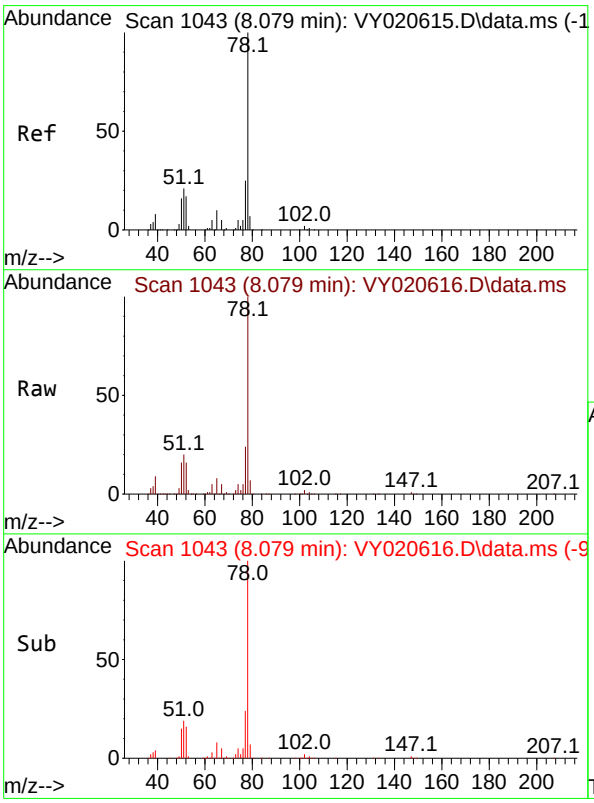

#39
Methylcyclohexane
Concen: 96.986 ug/l
RT: 9.109 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 440006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.8 | 61.4 | 92.0 |
| 98 | 46.9 | 37.3 | 55.9 |

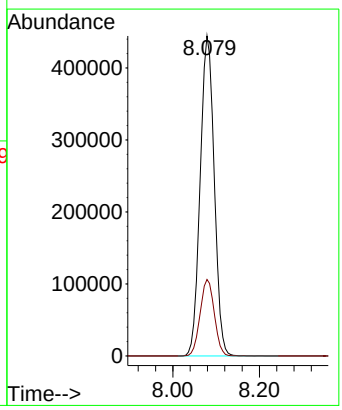


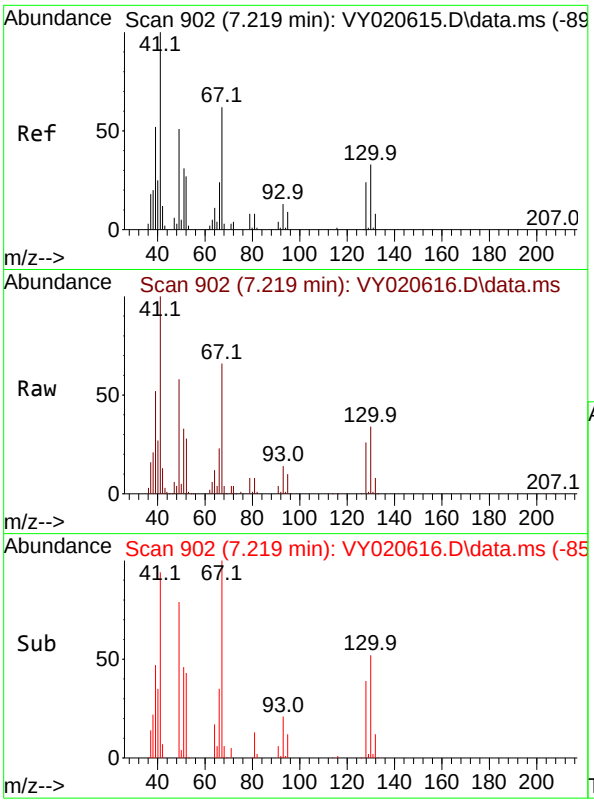




#40
Benzene
Concen: 98.064 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 78 Resp: 1000543

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 20.1 | 30.1 |



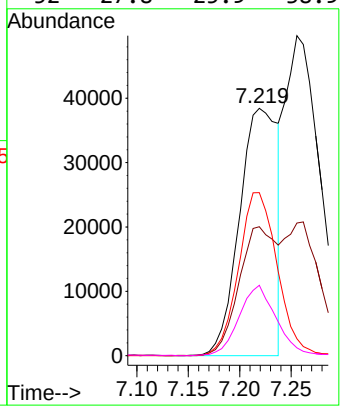


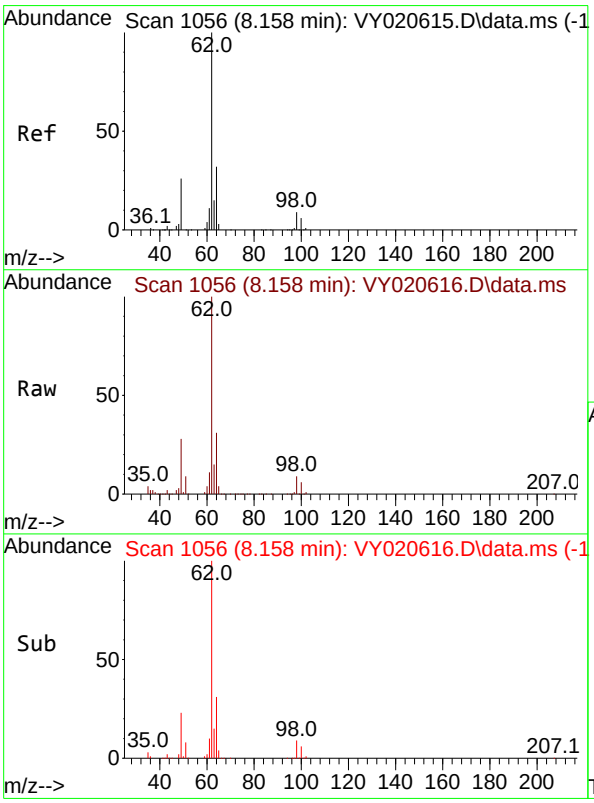

#41
Methacrylonitrile
Concen: 114.810 ug/l
RT: 7.219 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 41 Resp: 99381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.3 | 53.6 | 80.4# |
| 67 | 67.0 | 62.0 | 93.0 |
| 52 | 27.8 | 25.9 | 38.9 |

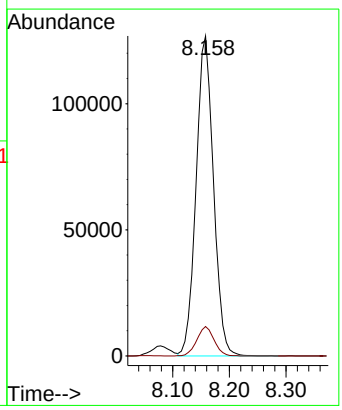


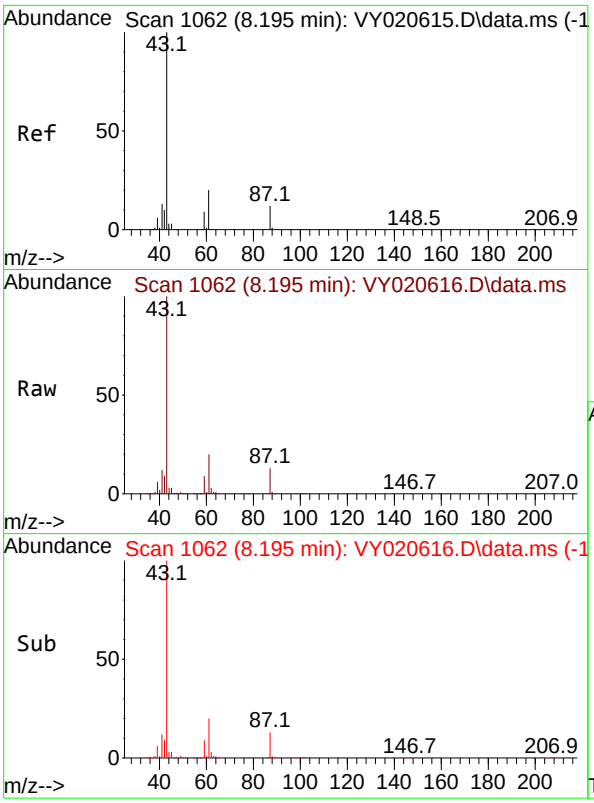




#42
1,2-Dichloroethane
Concen: 99.793 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 62 Resp: 270045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.1 | 0.0 | 18.0 |



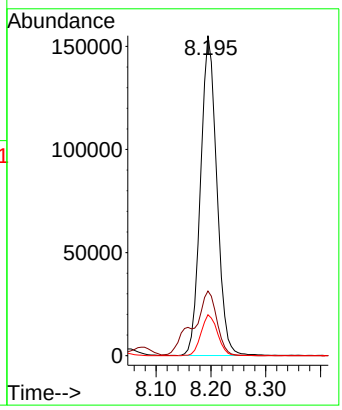


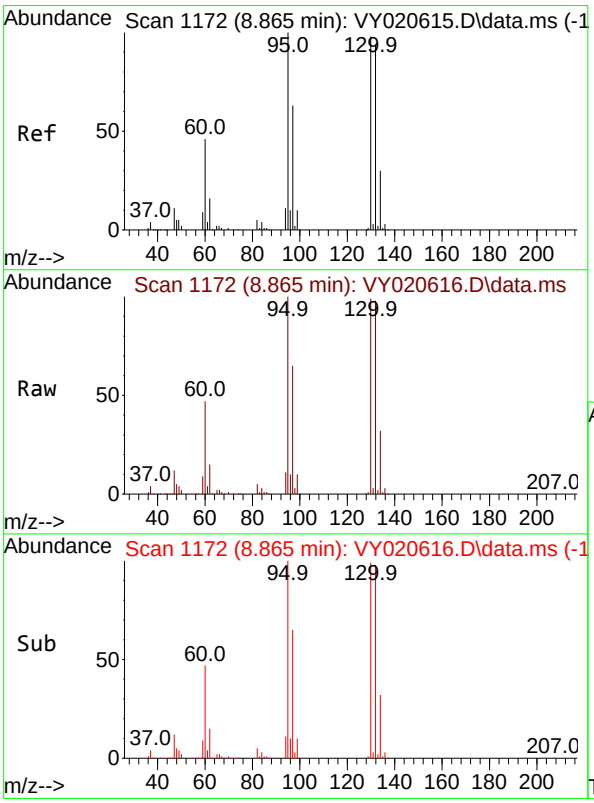

#43
Isopropyl Acetate
Concen: 102.879 ug/l
RT: 8.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 318902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.4 | 23.8 | 35.6 |
| 87 | 13.0 | 10.2 | 15.4 |

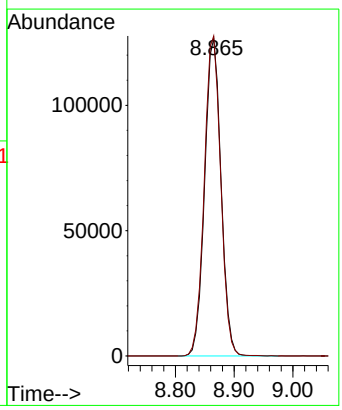


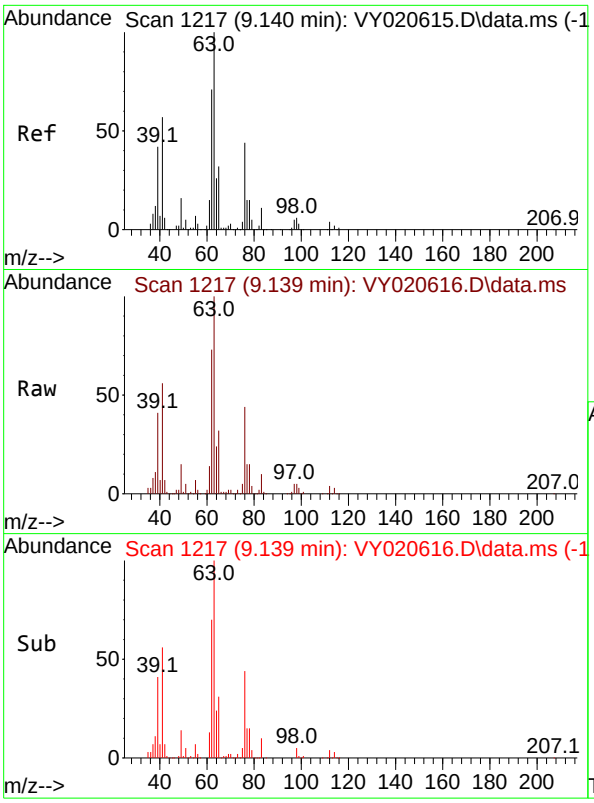




#44
Trichloroethene
Concen: 97.912 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:130 Resp: 245474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.8 | 0.0 | 203.2 |



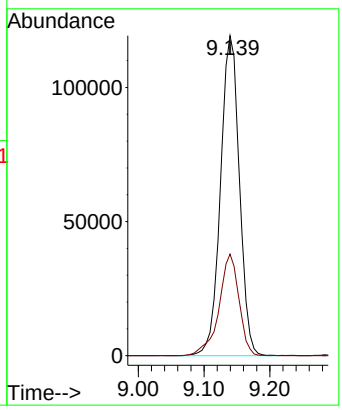


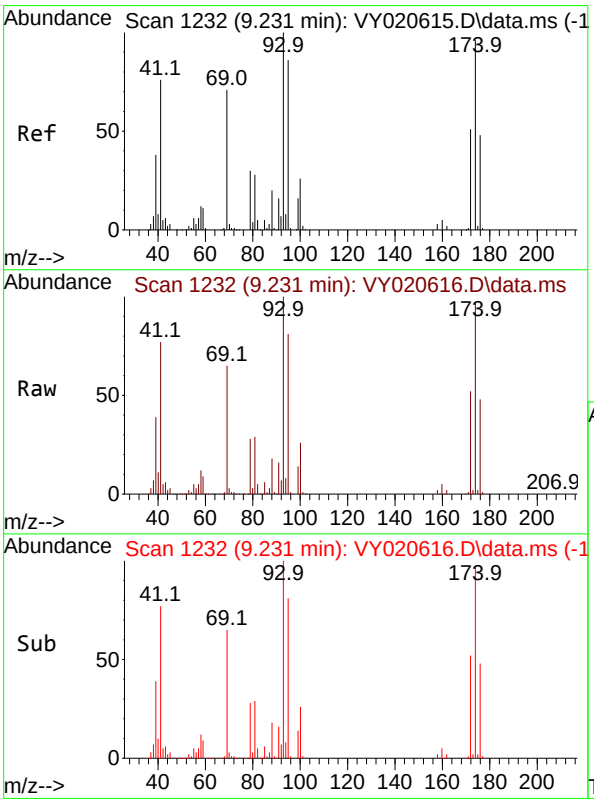

#45
1,2-Dichloropropane
Concen: 100.062 ug/l
RT: 9.139 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 63 Resp: 238605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.8 | 25.9 | 38.9 |

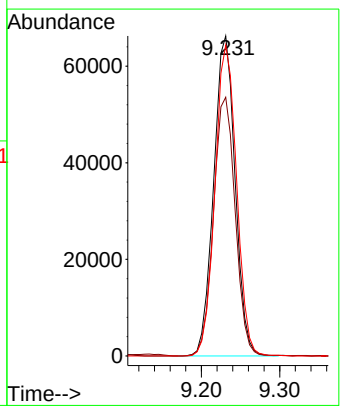


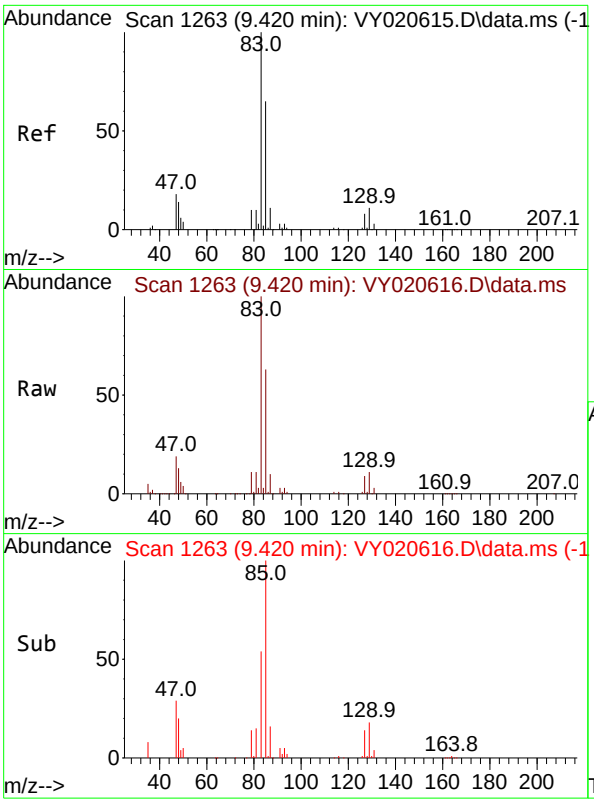




#46
Dibromomethane
Concen: 100.032 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 93 Resp: 126063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.1 | 66.7 | 100.1 |
| 174 | 97.9 | 77.8 | 116.6 |



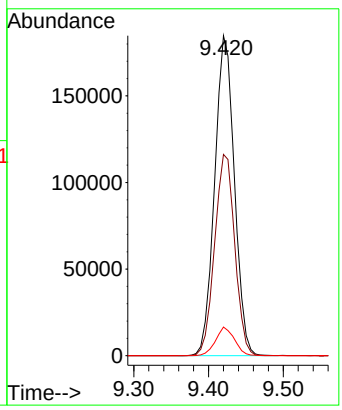


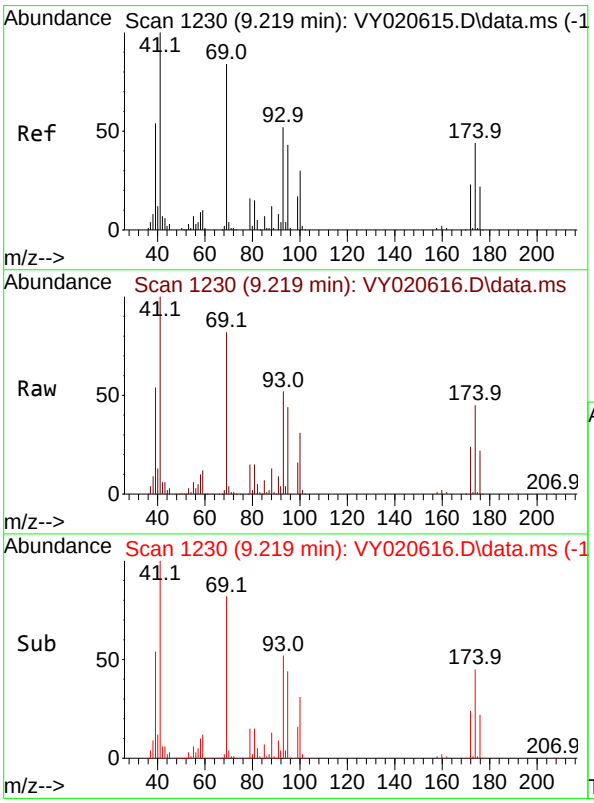

#47
Bromodichloromethane
Concen: 99.796 ug/l
RT: 9.420 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 339720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.9 | 52.1 | 78.1 |
| 127 | 8.9 | 6.7 | 10.1 |

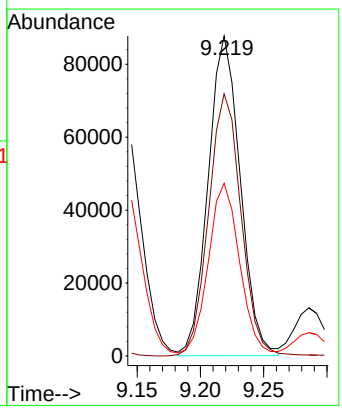


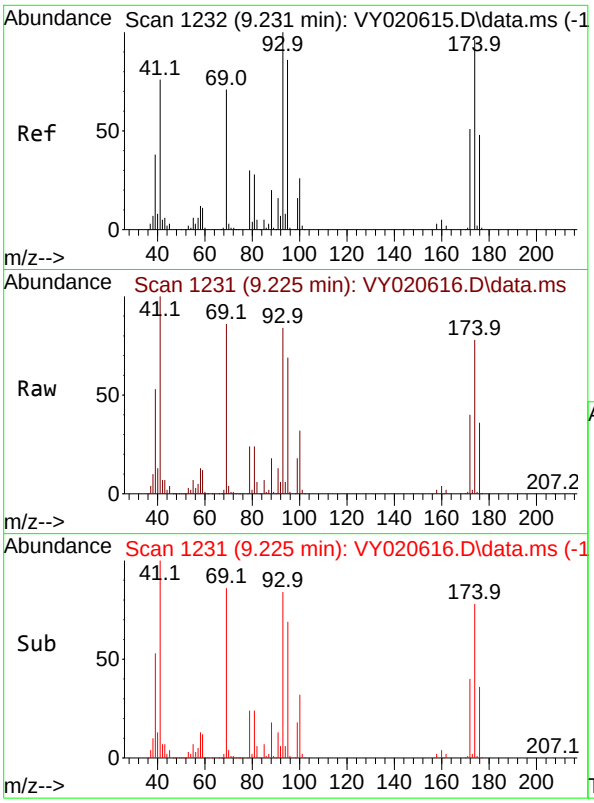




#48
Methyl methacrylate
Concen: 105.079 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 41 Resp: 154845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.1 | 67.2 | 100.8 |
| 39 | 51.3 | 42.2 | 63.4 |



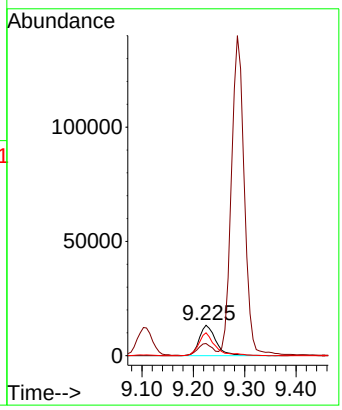


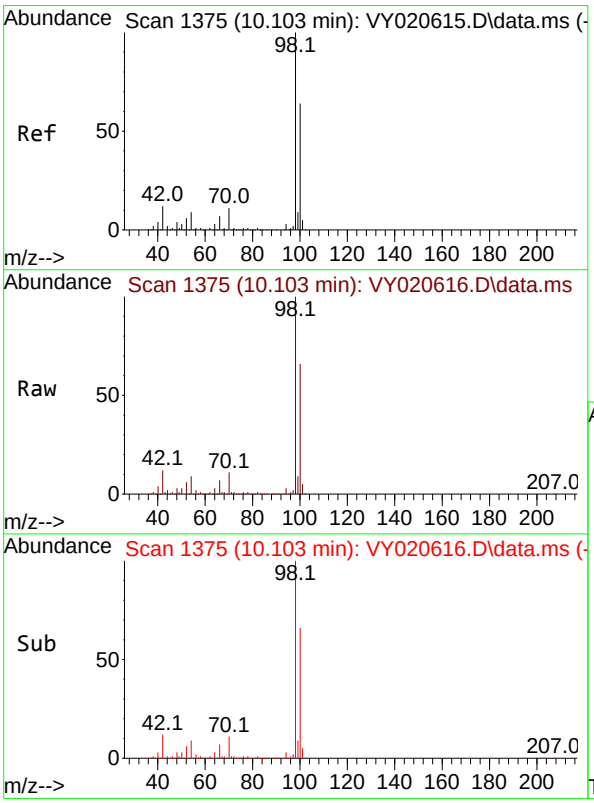

#49
1,4-Dioxane
Concen: 2066.774 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 88 Resp: 29870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 36.4 | 27.6 | 41.4 |
| 58 | 74.7 | 61.7 | 92.5 |

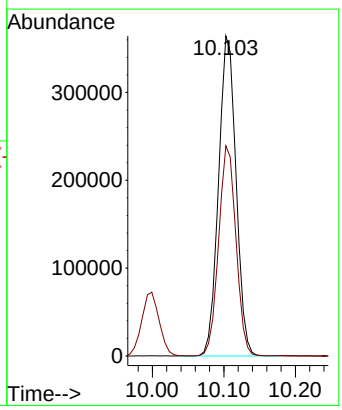


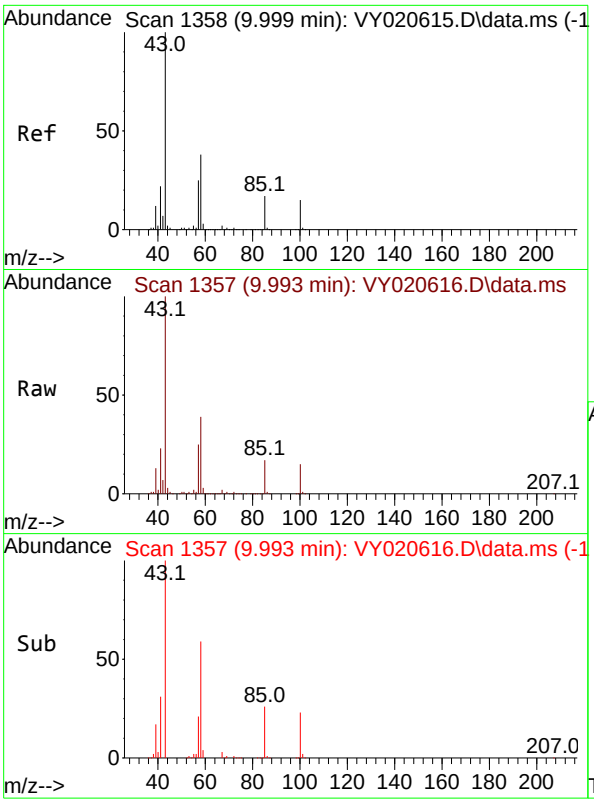




#50
Toluene-d8
Concen: 92.704 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 98 Resp: 619412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.1 | 78.1 |



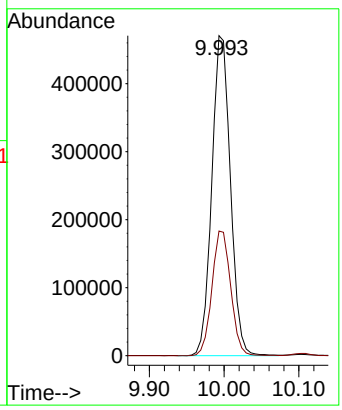


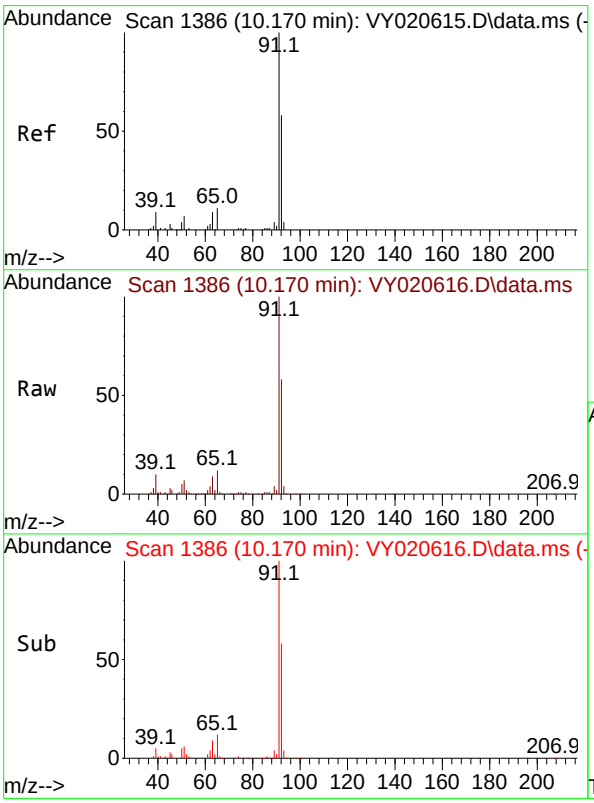

#51
4-Methyl-2-Pentanone
Concen: 498.015 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 814840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.4 | 31.4 | 47.2 |

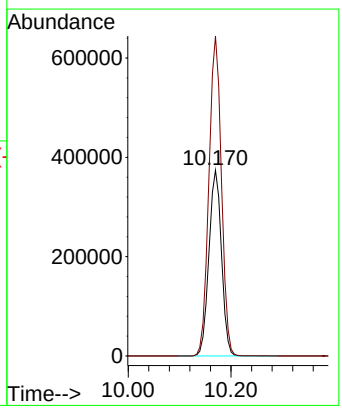


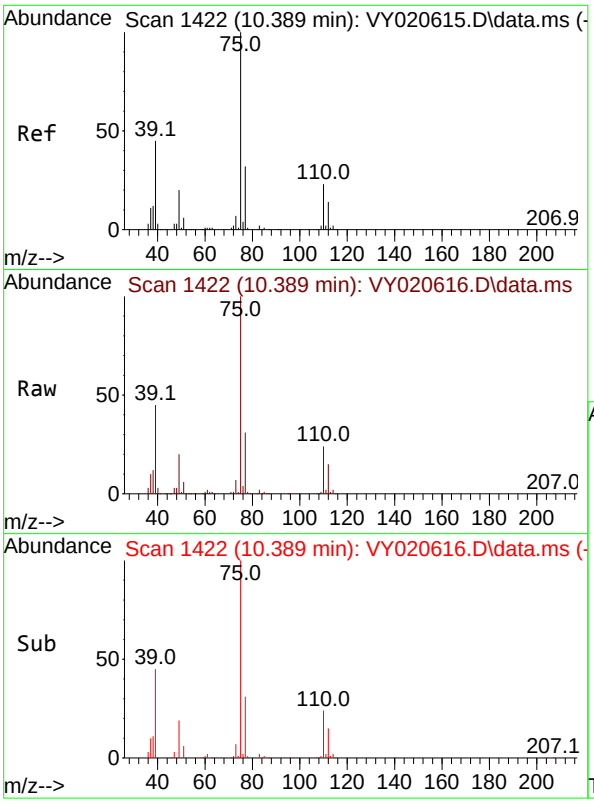




#52
Toluene
Concen: 99.573 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 92 Resp: 631368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.3 | 137.4 | 206.0 |



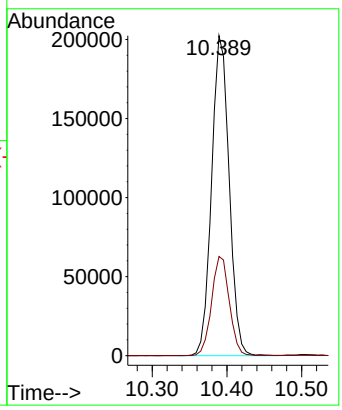


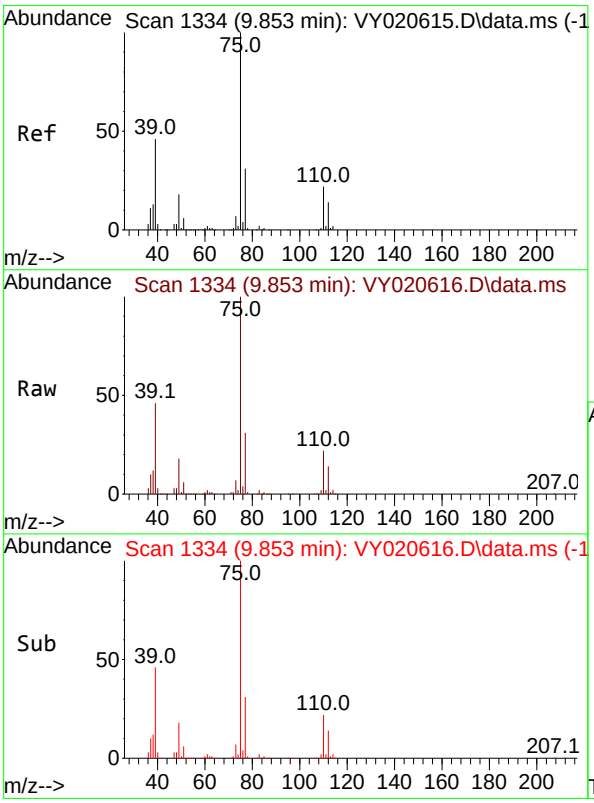

#53
t-1,3-Dichloropropene
Concen: 104.287 ug/l
RT: 10.389 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 330795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.0 | 25.4 | 38.2 |

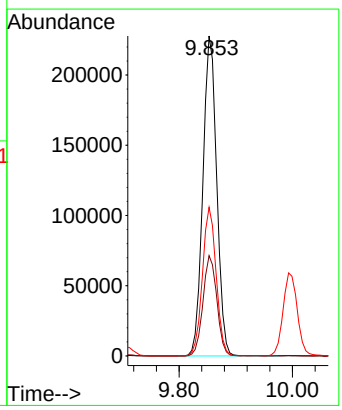


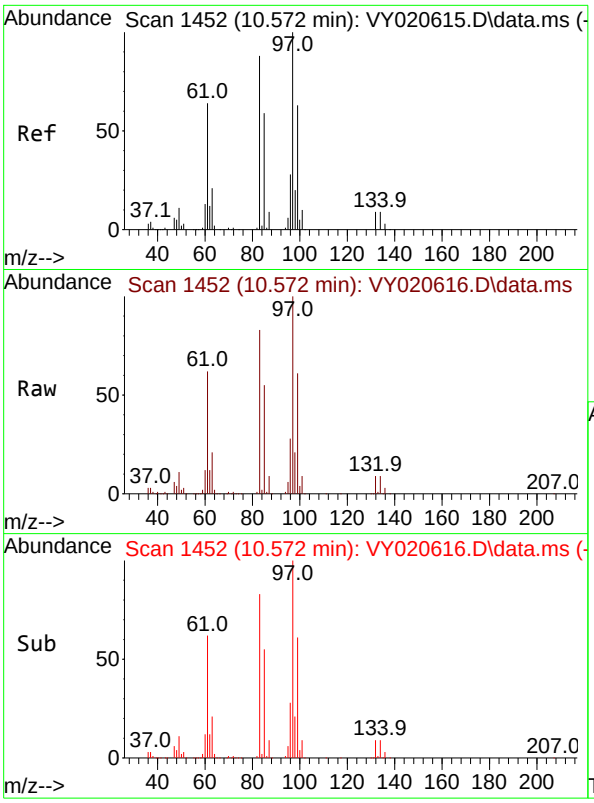




#54
cis-1,3-Dichloropropene
Concen: 102.884 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 75 Resp: 386715

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 24.6 | 36.8 |
| 39 | 46.4 | 36.4 | 54.6 |



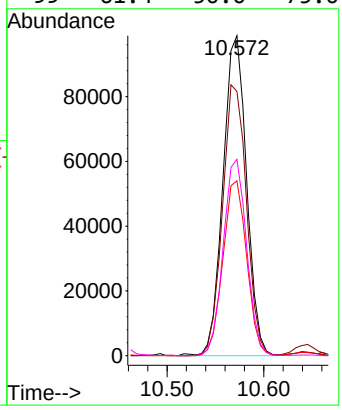


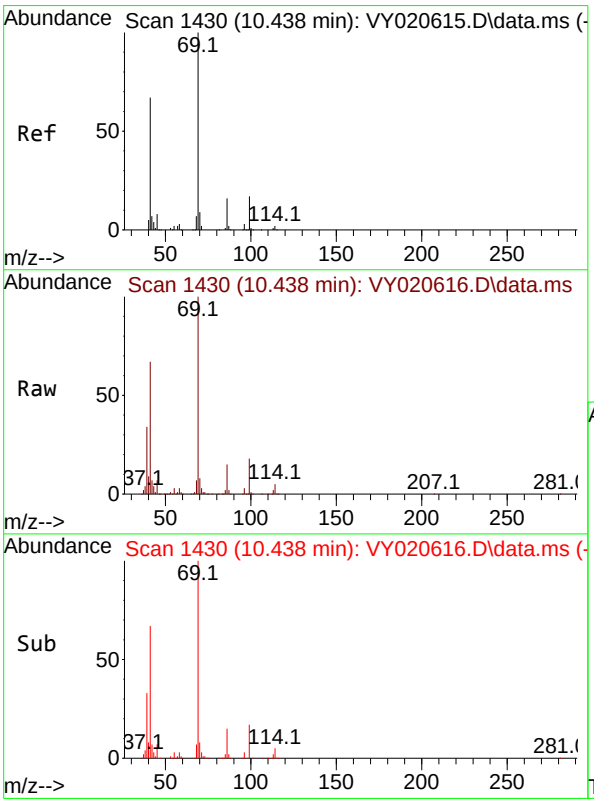

#55
1,1,2-Trichloroethane
Concen: 100.352 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 97 Resp: 167205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.6 | 70.4 | 105.6 |
| 85 | 54.6 | 47.2 | 70.8 |
| 99 | 61.4 | 50.0 | 75.0 |

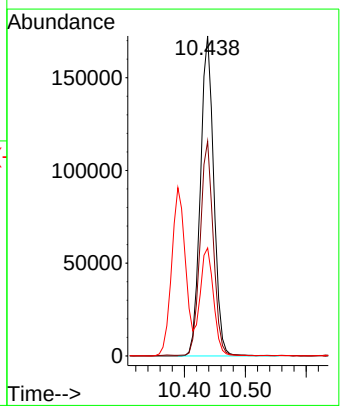


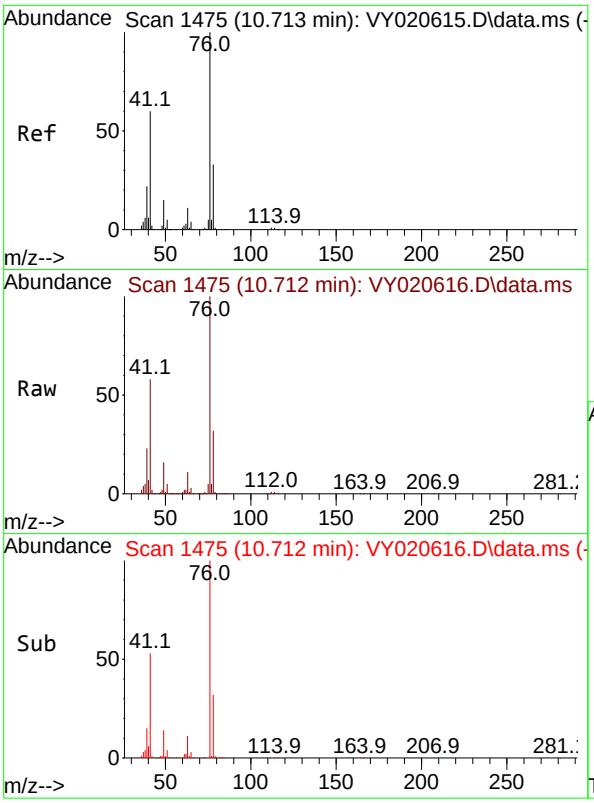




#56
Ethyl methacrylate
Concen: 109.090 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 69 Resp: 263694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.8 | 54.0 | 81.0 |
| 39 | 34.1 | 27.9 | 41.9 |



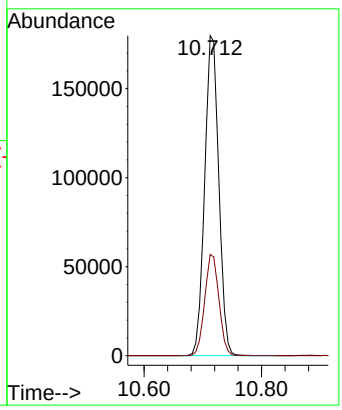


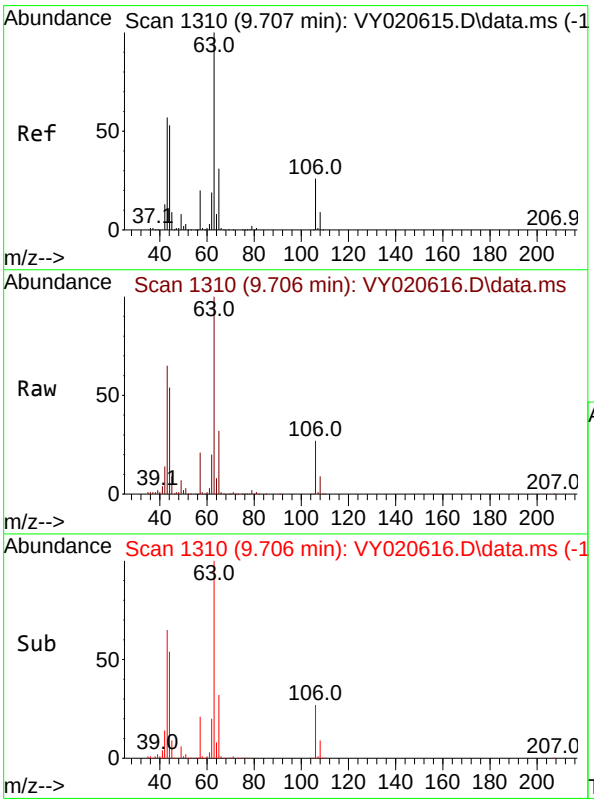

#57
1,3-Dichloropropane
Concen: 100.965 ug/l
RT: 10.712 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 299884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 25.8 | 38.8 |

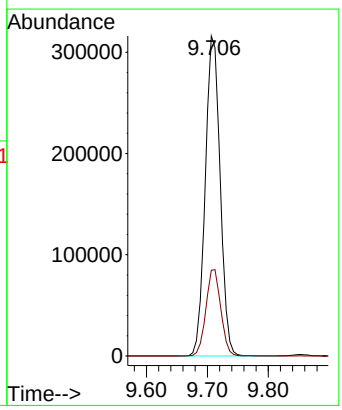


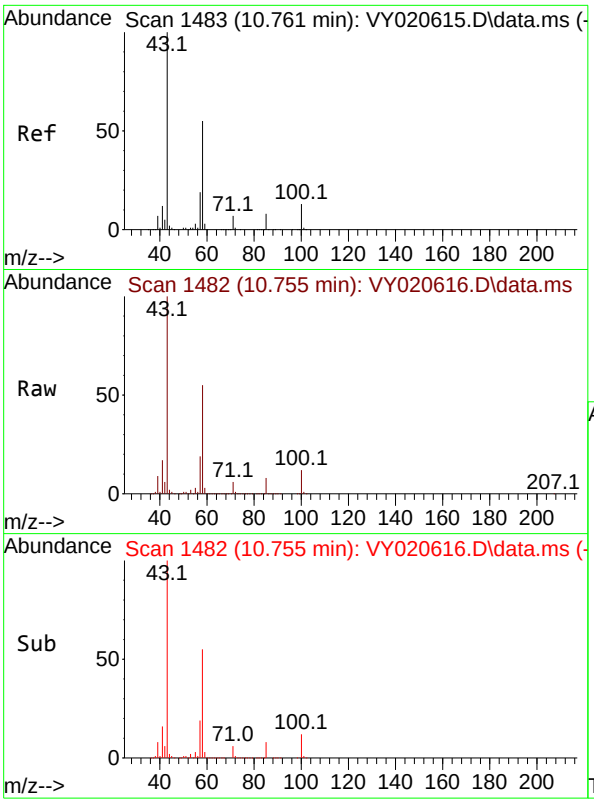




#58
2-Chloroethyl Vinyl ether
Concen: 527.303 ug/l
RT: 9.706 min Scan# 1310
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 63 Resp: 536306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.1 | 21.5 | 32.3 |



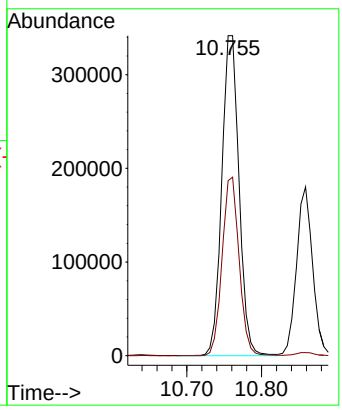


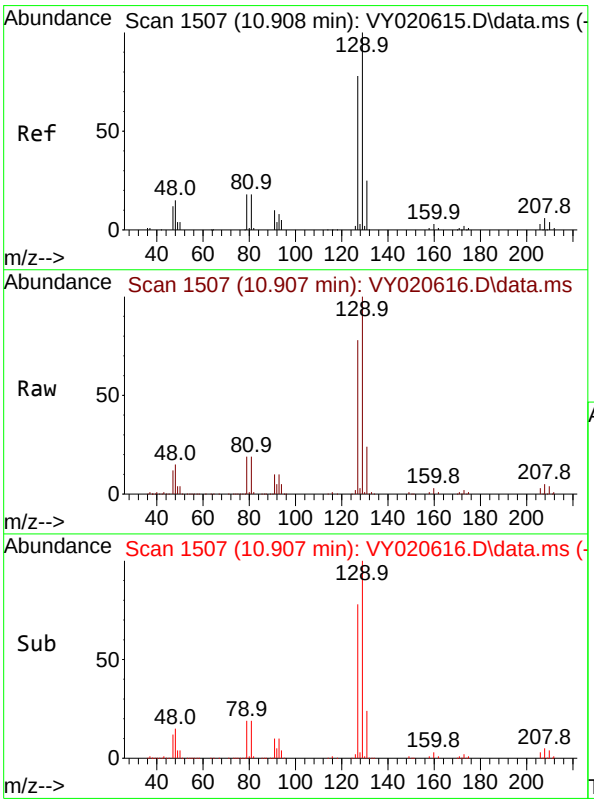

#59
2-Hexanone
Concen: 521.929 ug/l
RT: 10.755 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 548285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.0 | 27.2 | 81.6 |

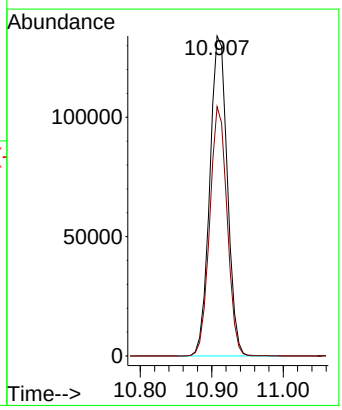


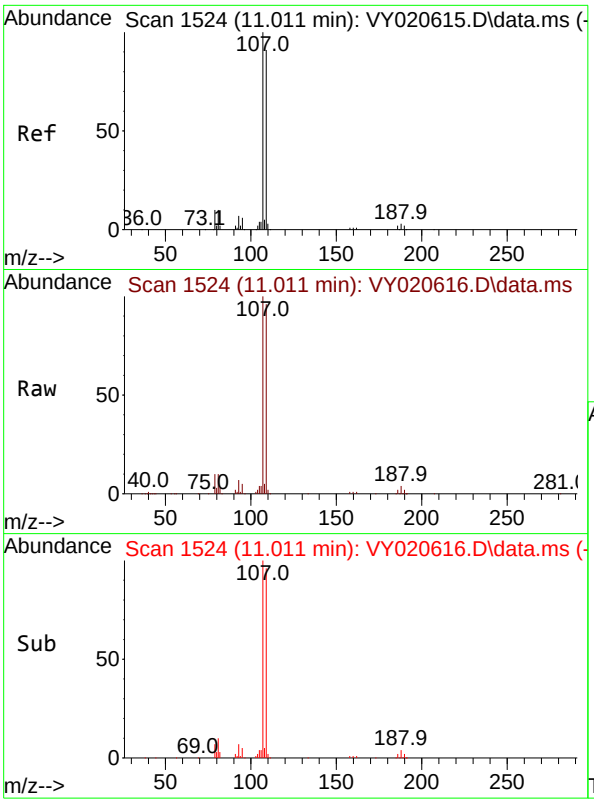




#60
Dibromochloromethane
Concen: 102.389 ug/l
RT: 10.907 min Scan# 1507
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:129 Resp: 228154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 38.1 | 114.3 |



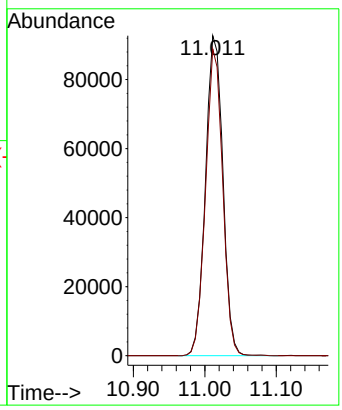


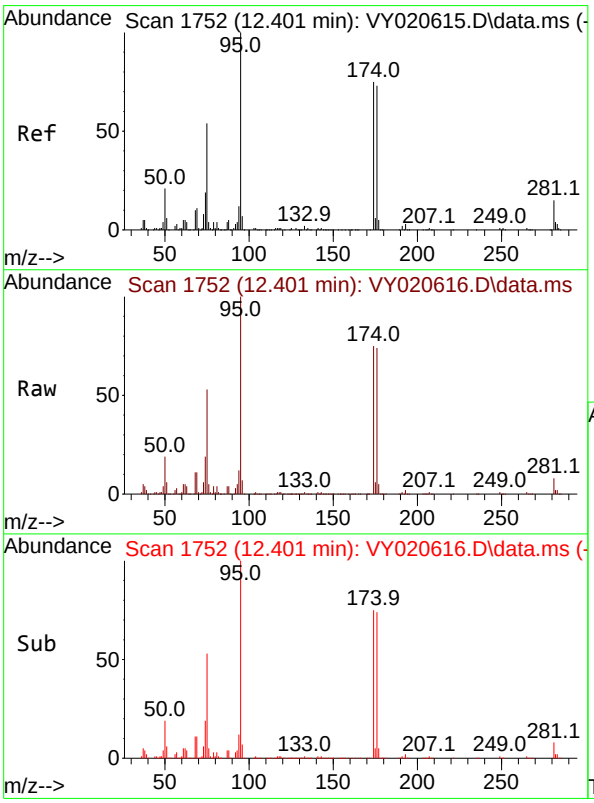

#61
1,2-Dibromoethane
Concen: 101.225 ug/l
RT: 11.011 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:107 Resp: 156883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.0 | 75.4 | 113.2 |

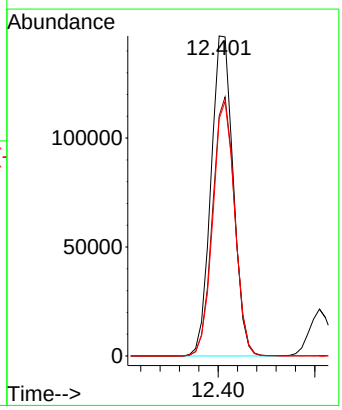


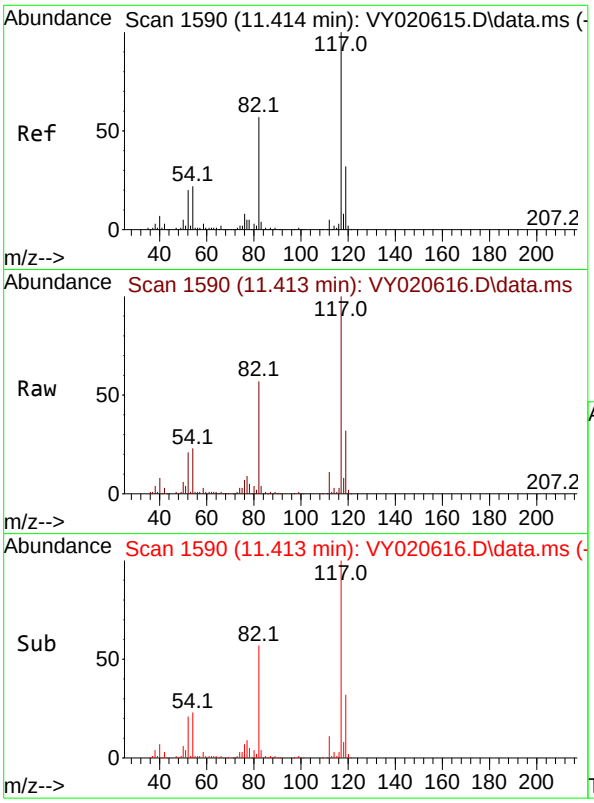




#62
4-Bromofluorobenzene
Concen: 89.665 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 95 Resp: 234353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.4 | 0.0 | 161.8 |
| 176 | 78.3 | 0.0 | 156.6 |



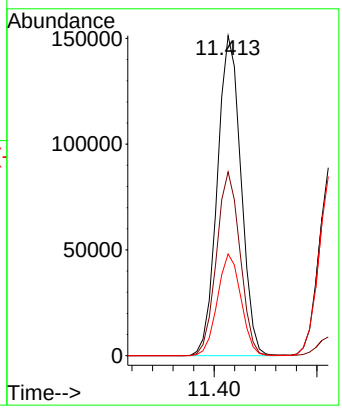


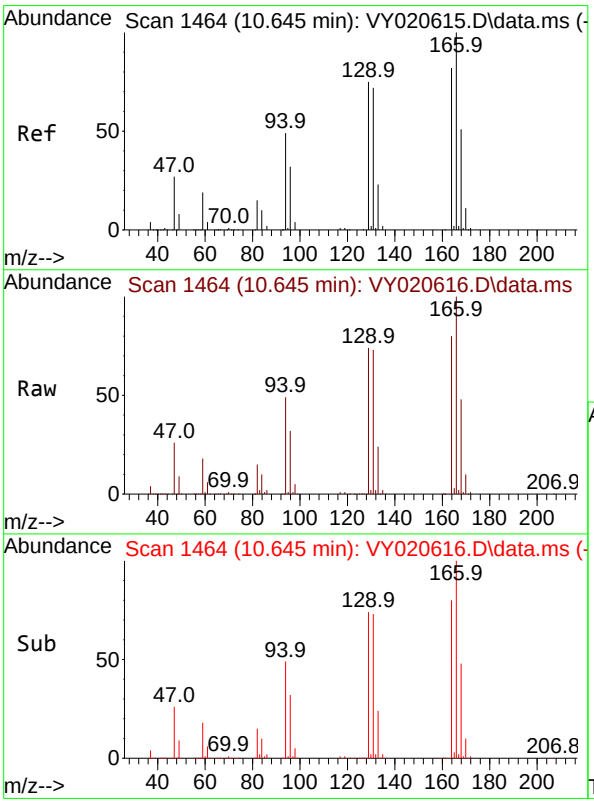

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.413 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:117 Resp: 241570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.4 | 45.8 | 68.6 |
| 119 | 31.8 | 25.3 | 37.9 |

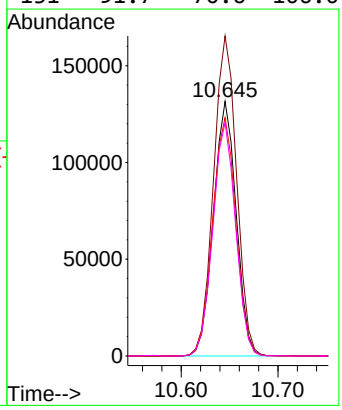


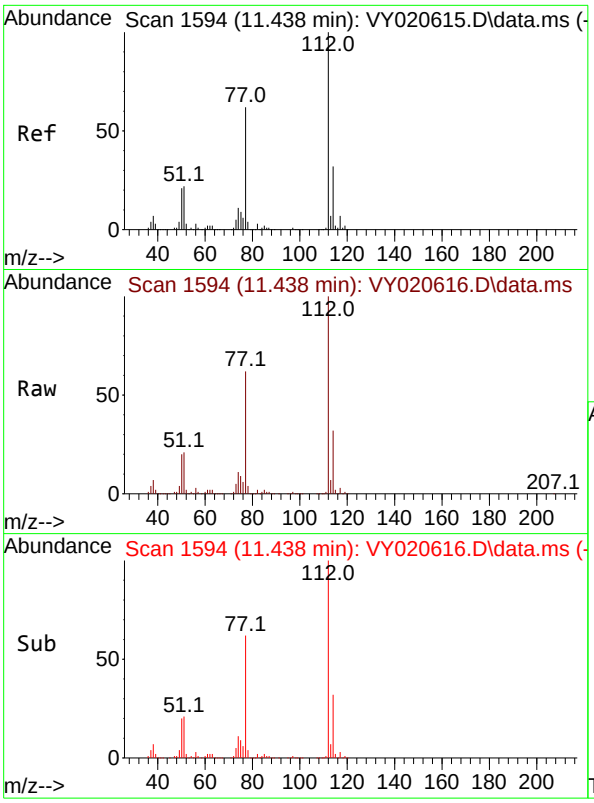




#64
Tetrachloroethene
Concen: 94.803 ug/l
RT: 10.645 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:164 Resp: 215415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.7 | 97.9 | 146.9 |
| 129 | 93.6 | 73.4 | 110.0 |
| 131 | 91.7 | 70.6 | 106.0 |



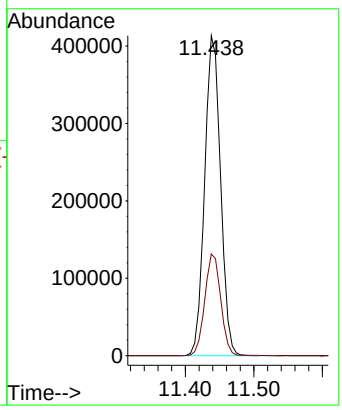


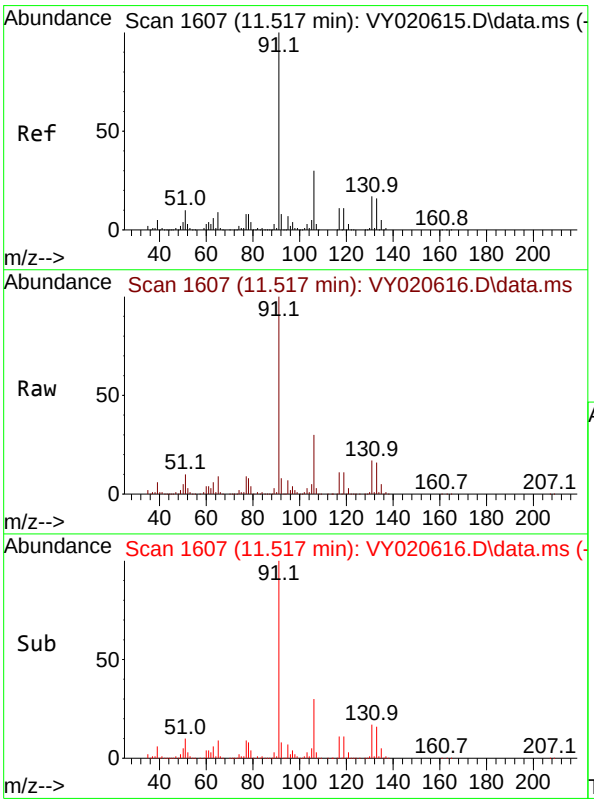

#65
Chlorobenzene
Concen: 98.800 ug/l
RT: 11.438 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:112 Resp: 667347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 26.0 | 39.0 |

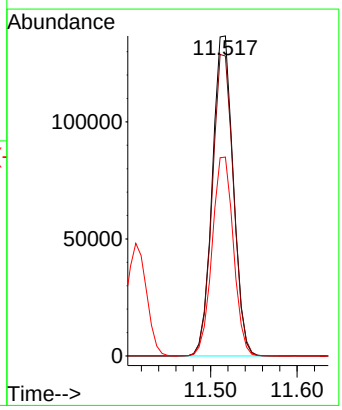


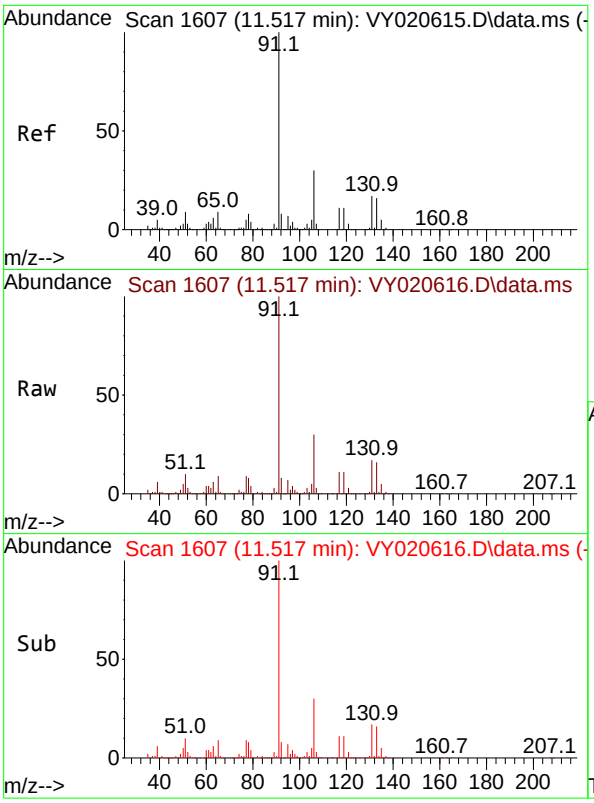




#66
1,1,1,2-Tetrachloroethane
Concen: 99.489 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:131 Resp: 229790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.2 | 46.8 | 140.3 |
| 119 | 63.1 | 31.8 | 95.3 |



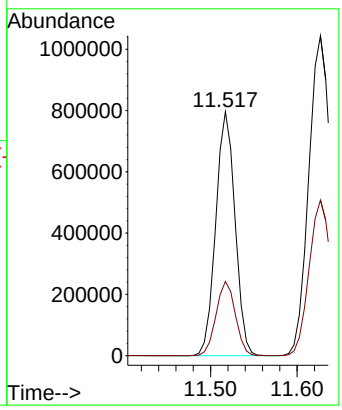


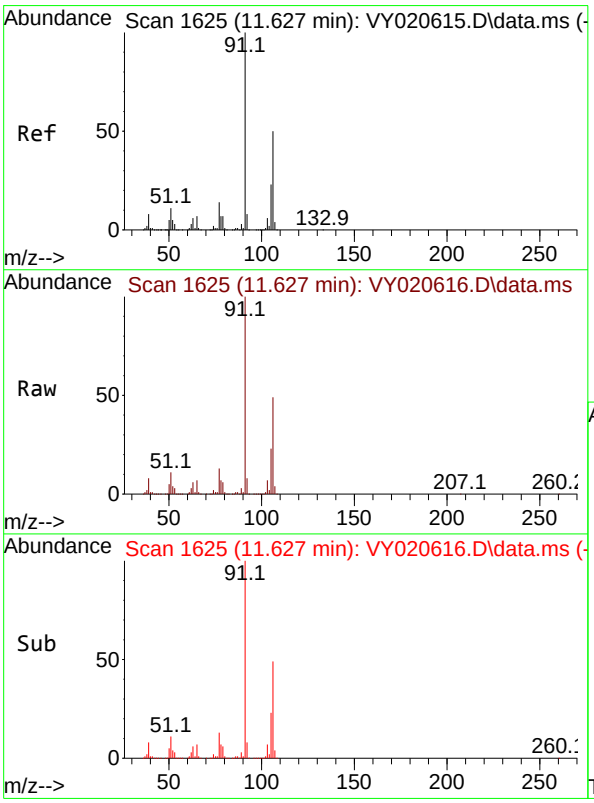

#67
Ethyl Benzene
Concen: 98.607 ug/l
RT: 11.517 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 1228775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 23.9 | 35.9 |

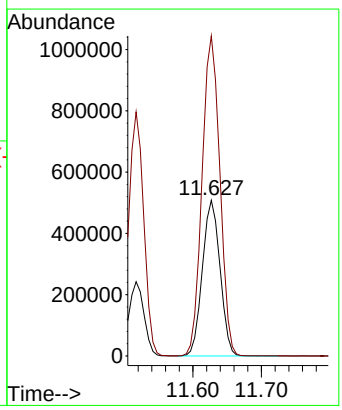


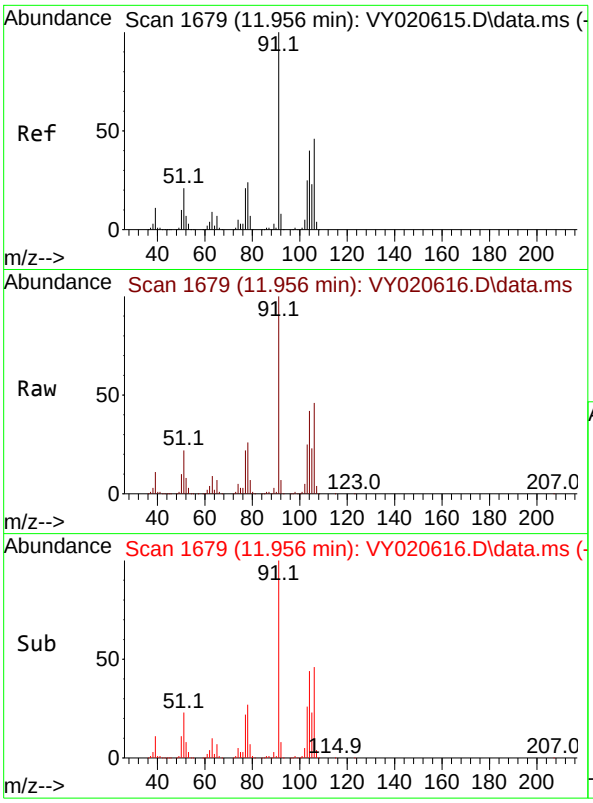




#68
m/p-Xylenes
Concen: 196.521 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:106 Resp: 910536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.4 | 165.0 | 247.4 |



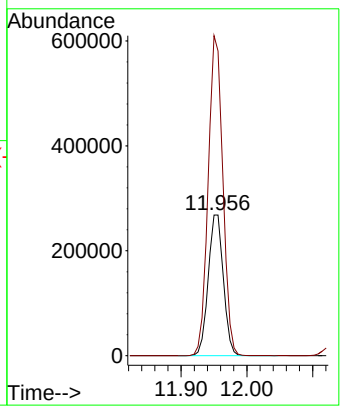


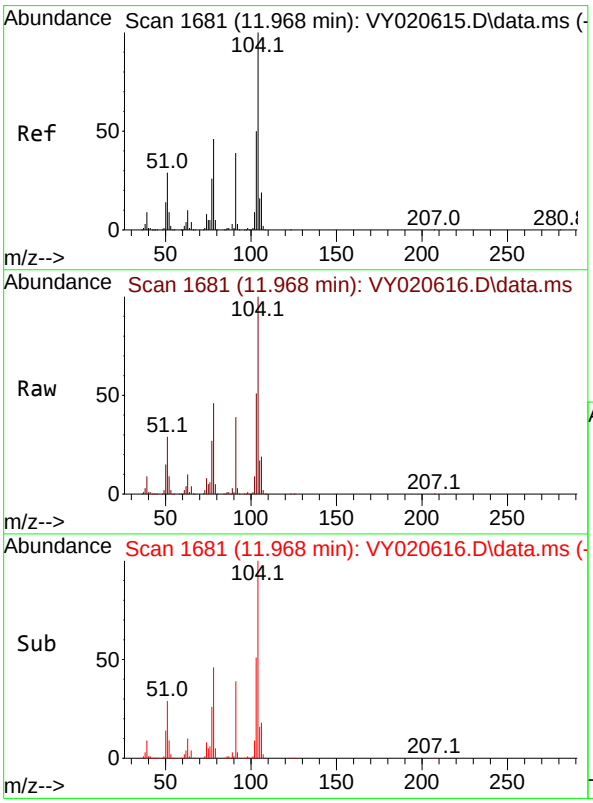

#69
o-Xylene
Concen: 99.174 ug/l
RT: 11.956 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:106 Resp: 428727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 221.0 | 108.4 | 325.2 |

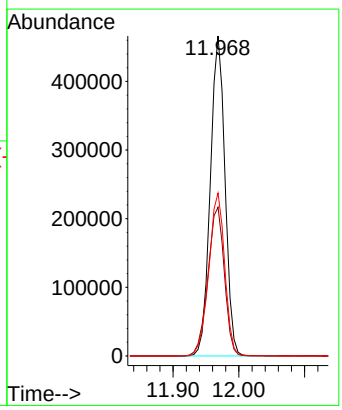


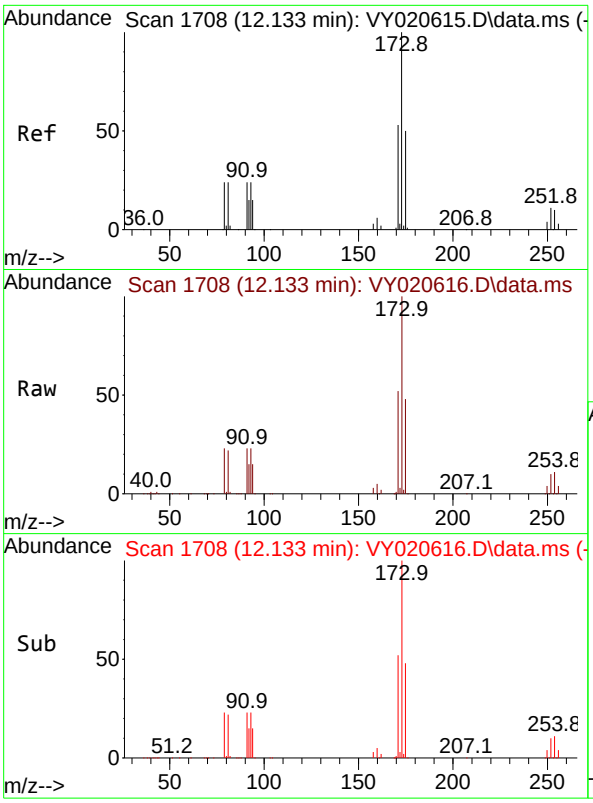




#70
Styrene
Concen: 100.401 ug/l
RT: 11.968 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:104 Resp: 725167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.1 | 41.6 | 62.4 |
| 103 | 55.1 | 43.7 | 65.5 |



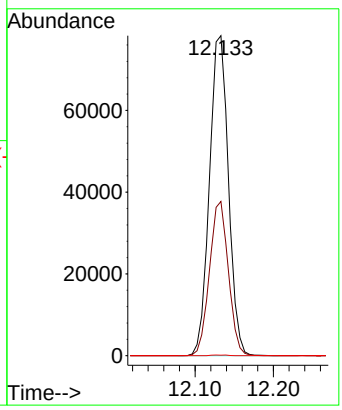


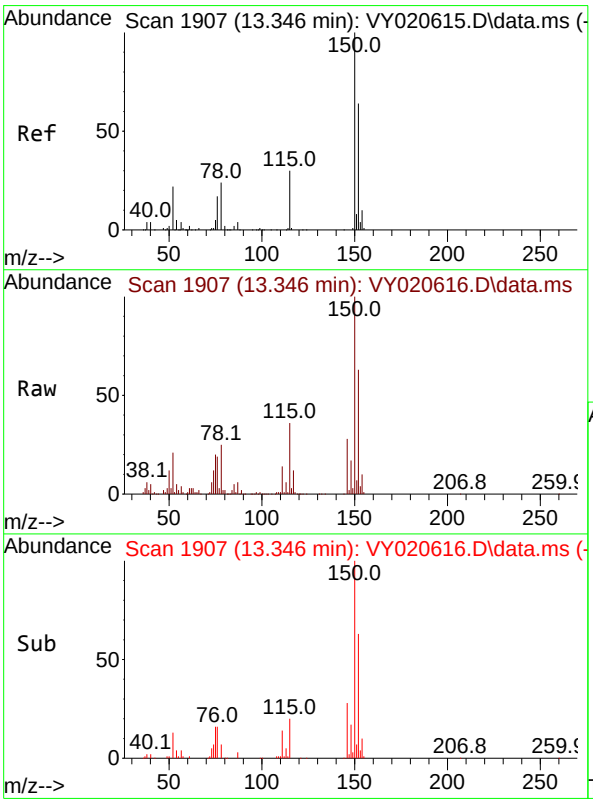

#71
Bromoform
Concen: 101.332 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:173 Resp: 131589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 24.6 | 74.0 |
| 254 | 0.2 | 0.0 | 0.0# |

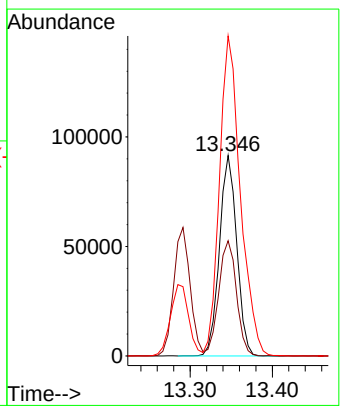


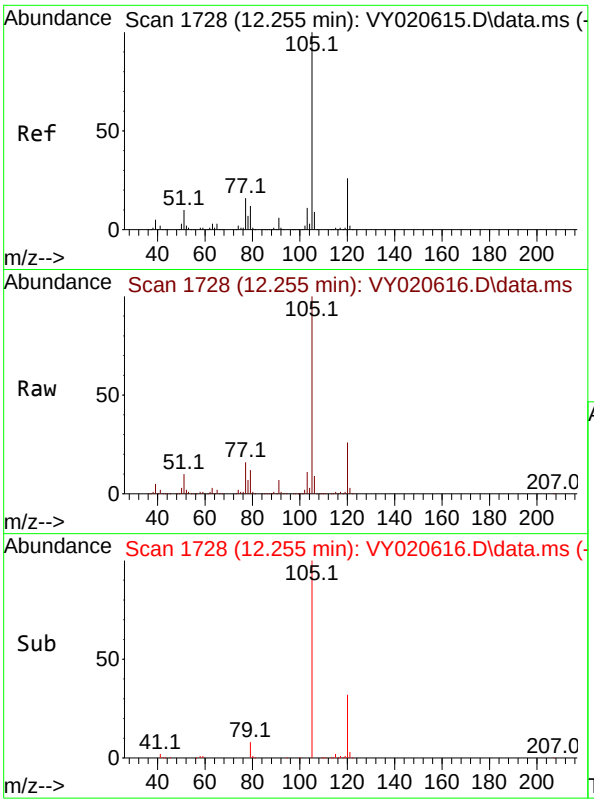




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:152 Resp: 134321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.0 | 30.2 | 90.6 |
| 150 | 192.3 | 0.0 | 355.4 |



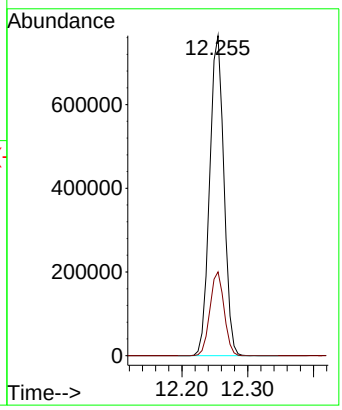


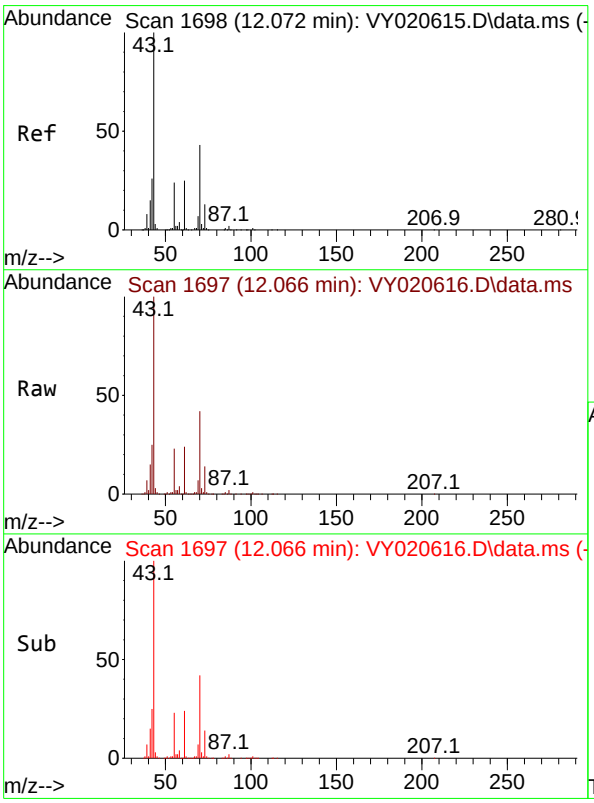

#73
Isopropylbenzene
Concen: 98.191 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 1150948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |

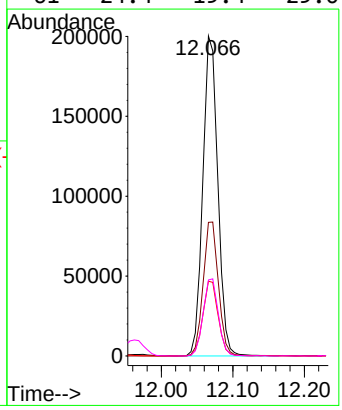


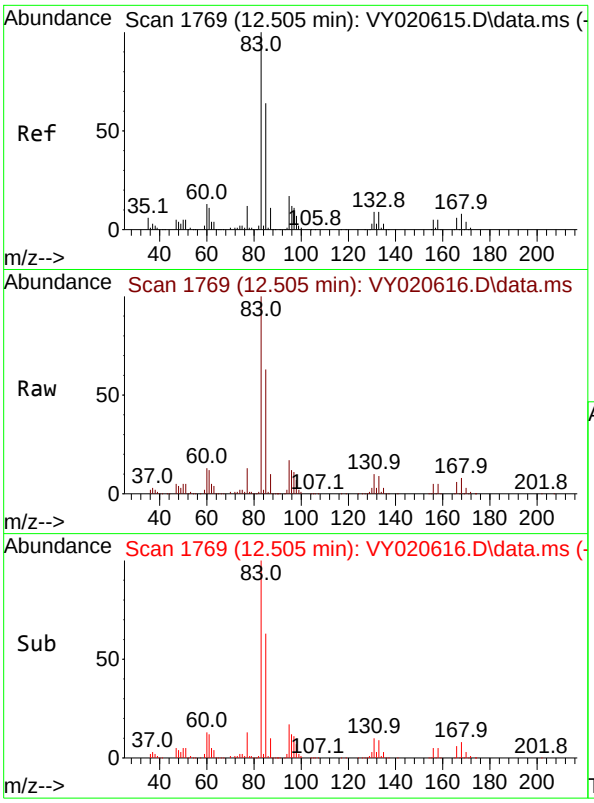




#74
N-amyl acetate
Concen: 106.582 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 43 Resp: 292377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.6 | 34.2 | 51.2 |
| 55 | 23.8 | 19.6 | 29.4 |
| 61 | 24.4 | 19.4 | 29.0 |



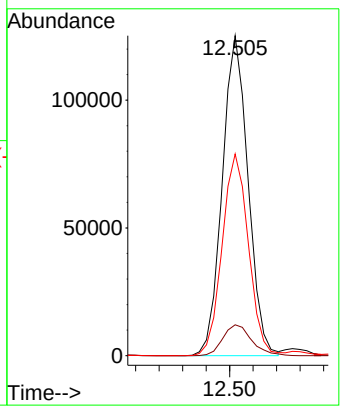


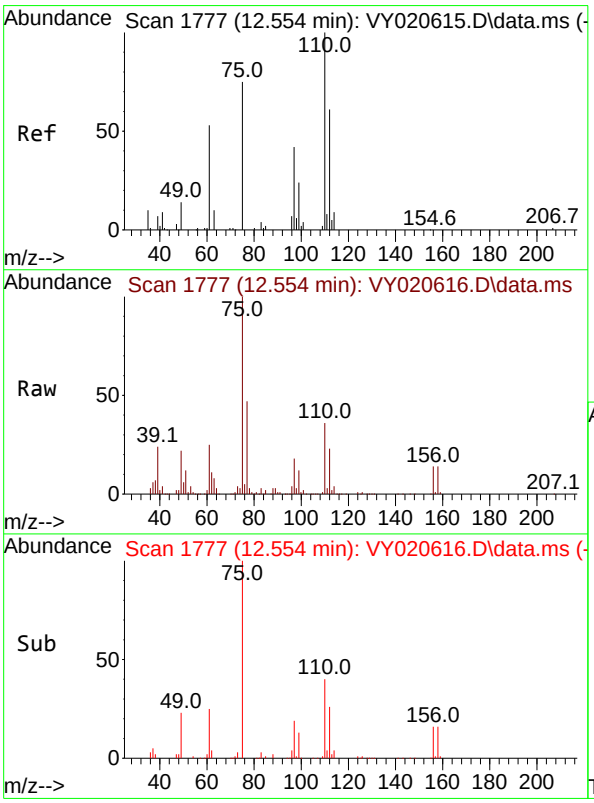

#75
1,1,2,2-Tetrachloroethane
Concen: 100.209 ug/l
RT: 12.505 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 190664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.8 | 5.2 | 15.6 |
| 85 | 64.4 | 32.5 | 97.4 |

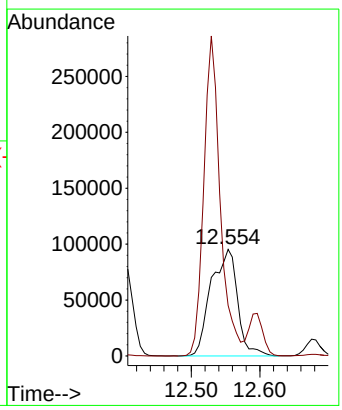


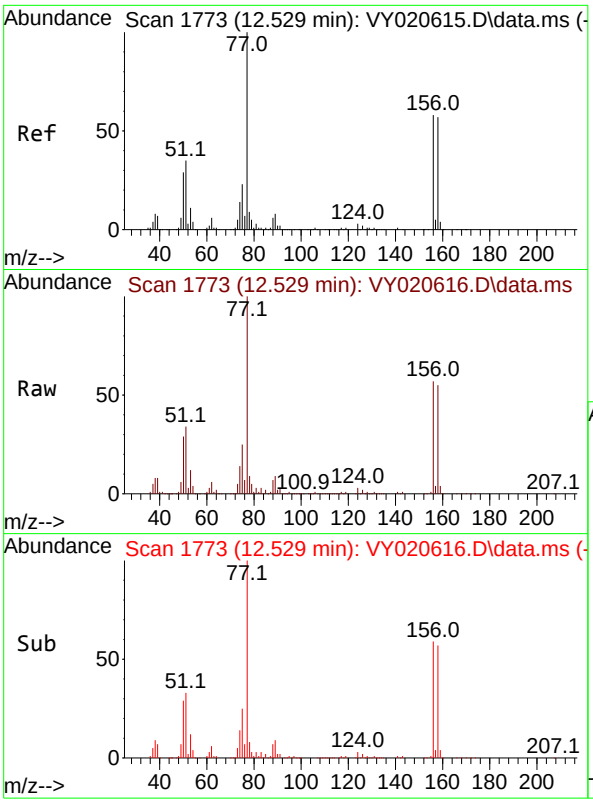




#76
1,2,3-Trichloropropane
Concen: 185.352 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 75 Resp: 256421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



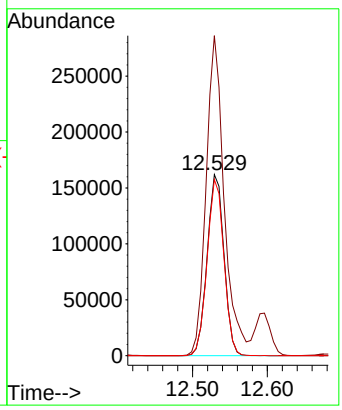


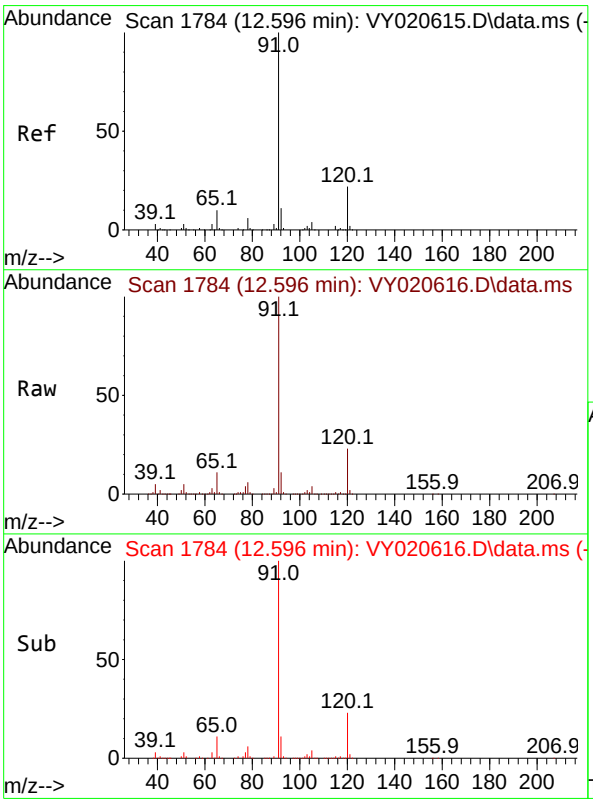

#77
Bromobenzene
Concen: 99.317 ug/l
RT: 12.529 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:156 Resp: 253587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 188.7 | 94.2 | 282.4 |
| 158 | 97.2 | 48.9 | 146.6 |

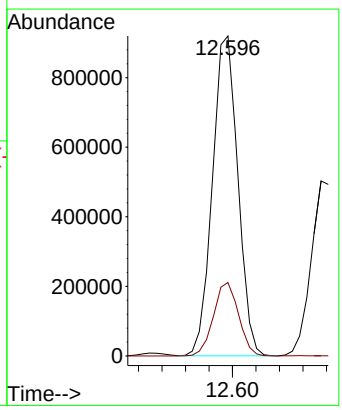


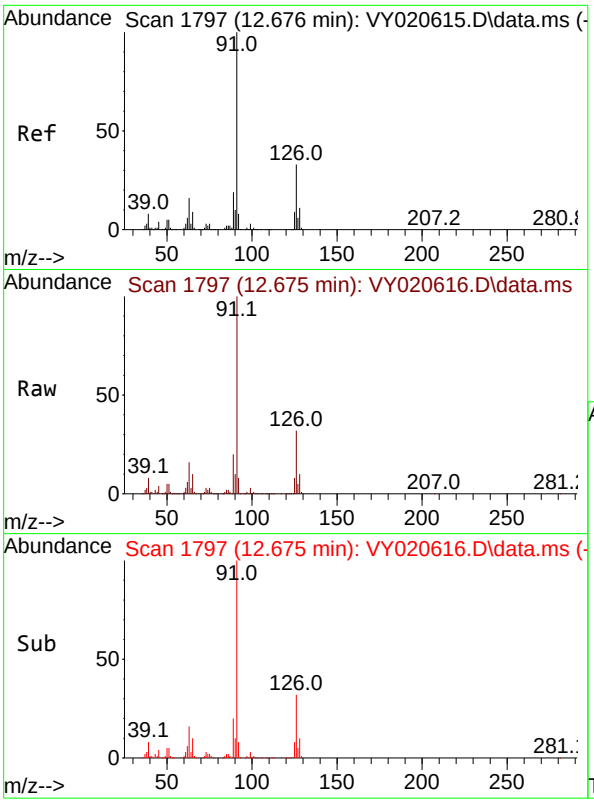




#78
n-propylbenzene
Concen: 97.980 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 91 Resp: 1383699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.6 | 11.1 | 33.1 |



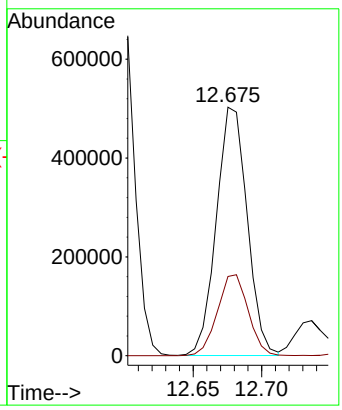


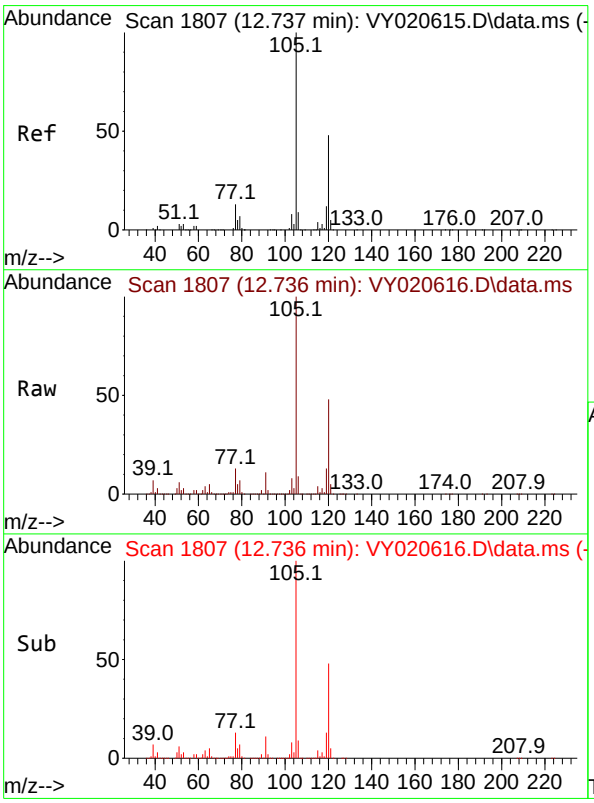

#79
2-Chlorotoluene
Concen: 99.147 ug/l
RT: 12.675 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 787764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.5 | 16.6 | 49.7 |

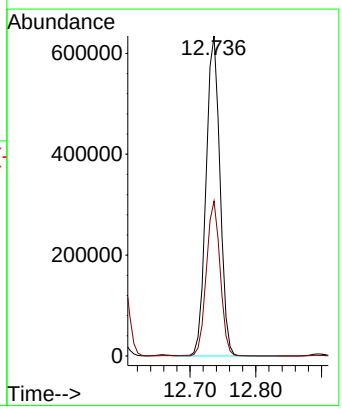


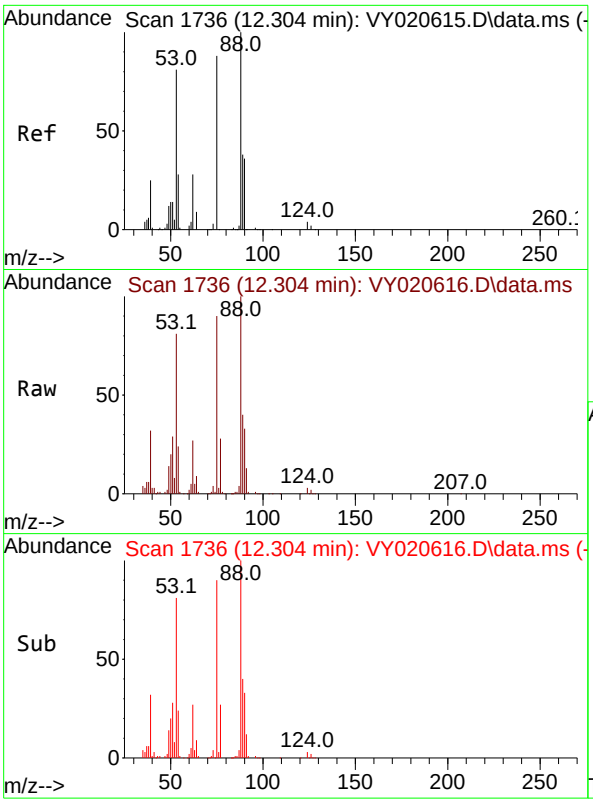




#80
1,3,5-Trimethylbenzene
Concen: 98.108 ug/l
RT: 12.736 min Scan# 1807
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:105 Resp: 933106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.9 | 71.7 |



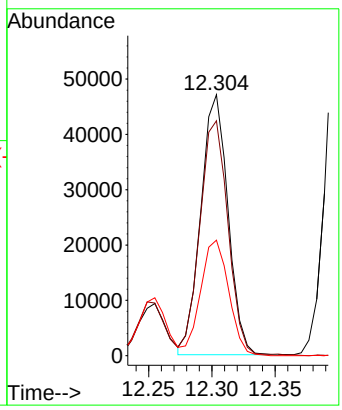


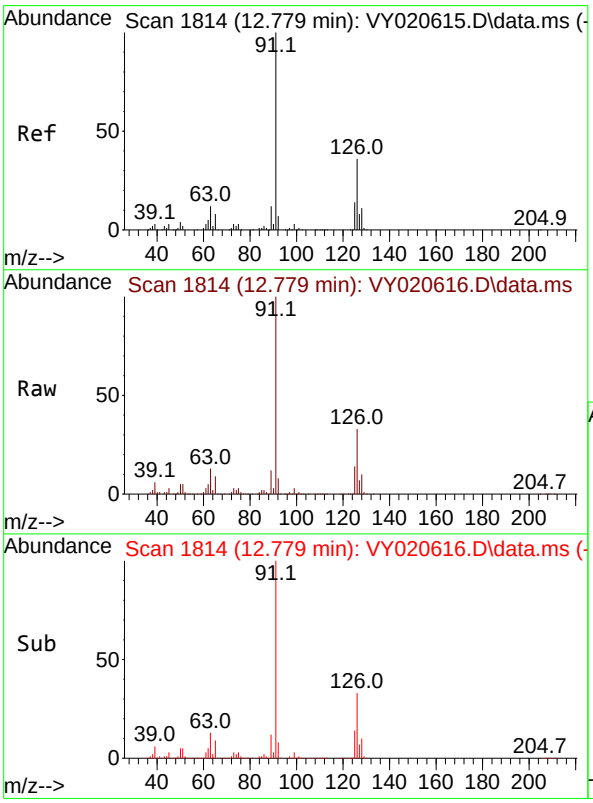

#81
trans-1,4-Dichloro-2-butene
Concen: 105.852 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 70365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 94.0 | 75.4 | 113.2 |
| 89 | 46.2 | 37.0 | 55.4 |

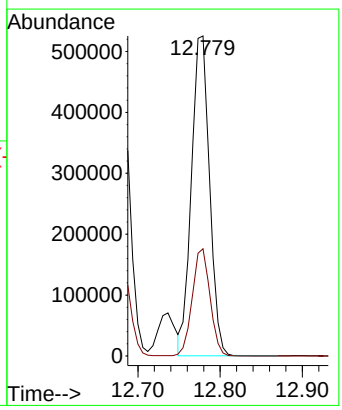


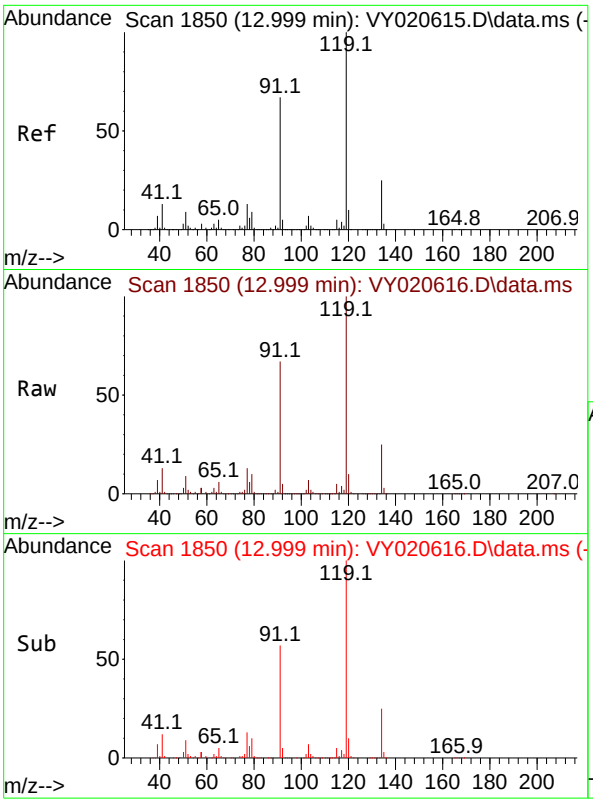




#82
4-Chlorotoluene
Concen: 97.558 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 91 Resp: 804177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.8 | 16.6 | 49.7 |



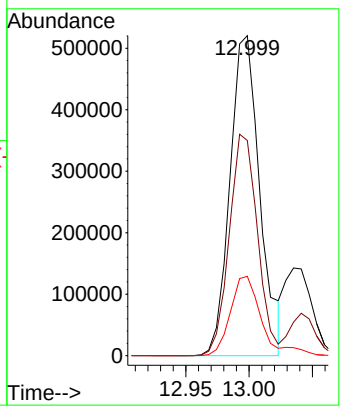


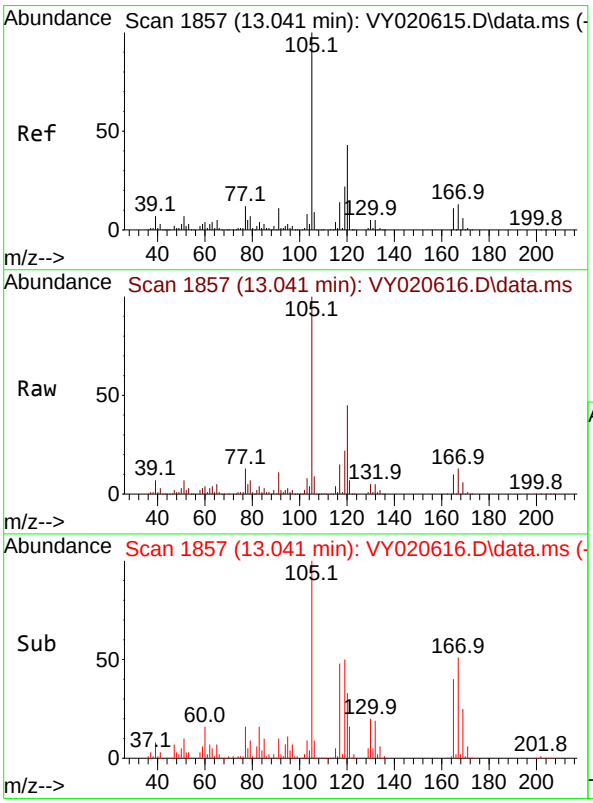

#83
tert-Butylbenzene
Concen: 99.108 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:119 Resp: 853675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.5 | 32.9 | 98.6 |
| 134 | 26.0 | 13.1 | 39.1 |

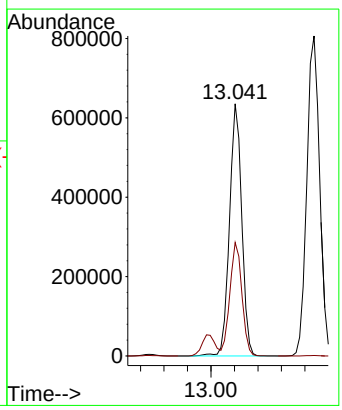


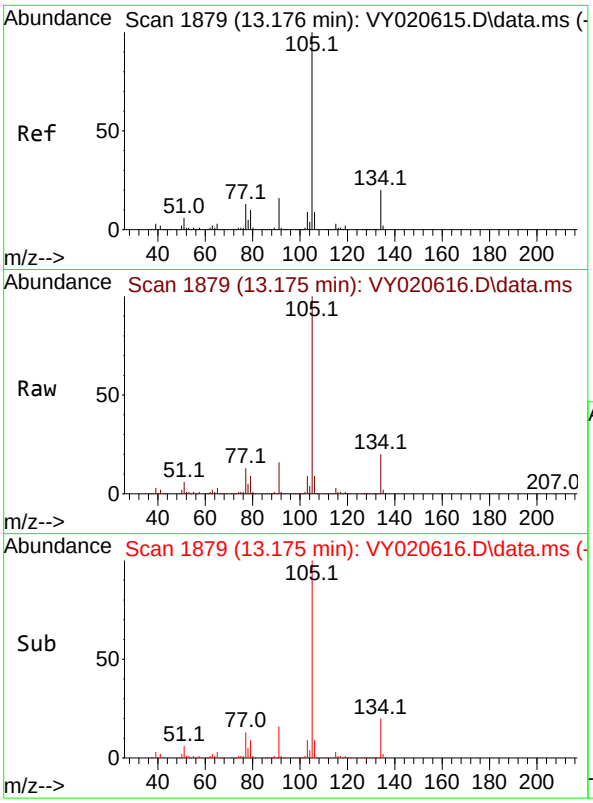




#84
1,2,4-Trimethylbenzene
Concen: 98.727 ug/l
RT: 13.041 min Scan# 1857
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:105 Resp: 921051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.3 | 21.8 | 65.4 |



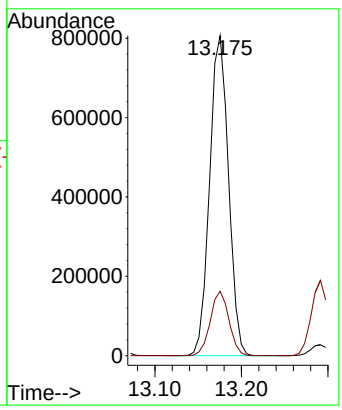


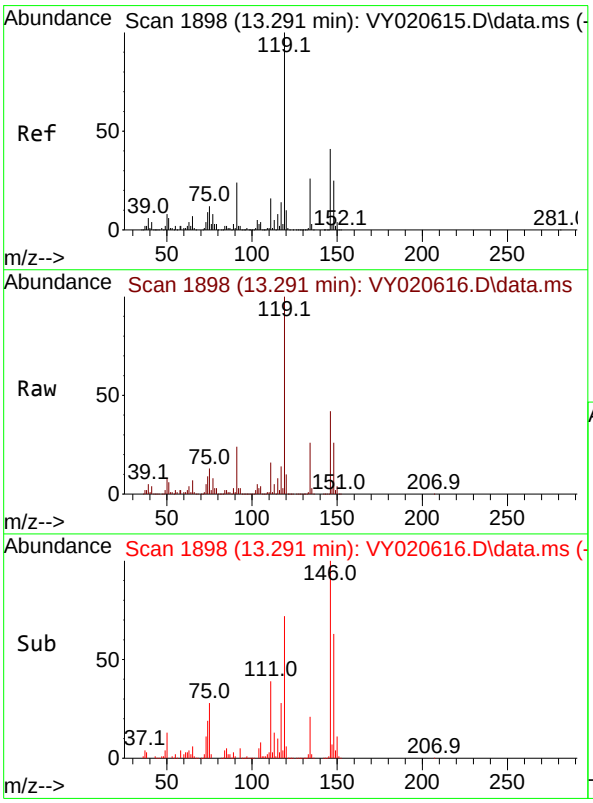

#85
sec-Butylbenzene
Concen: 97.450 ug/l
RT: 13.175 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 1220465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.0 | 30.0 |

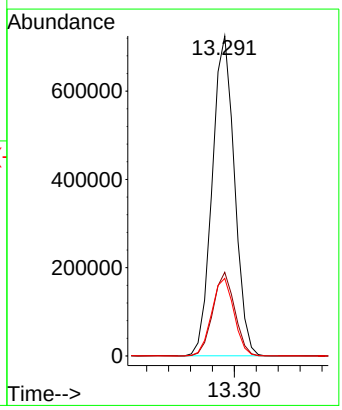


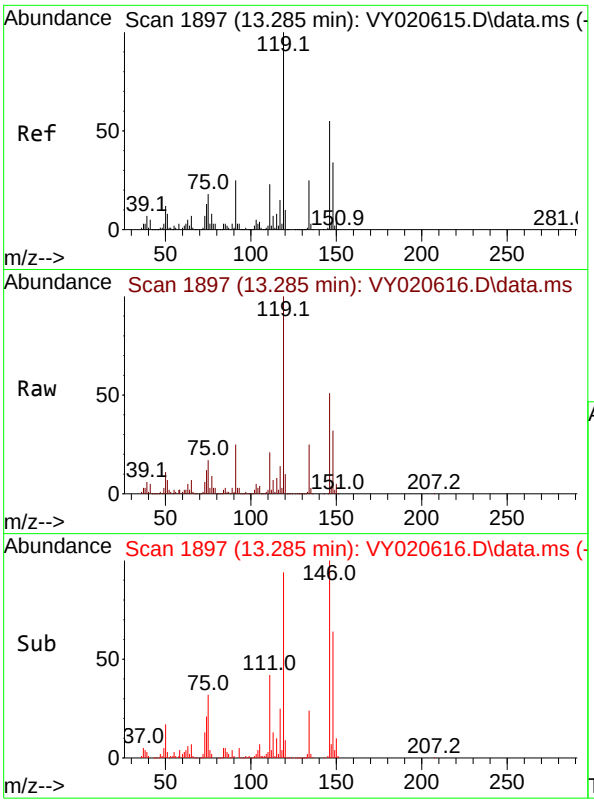




#86
p-Isopropyltoluene
Concen: 99.089 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:119 Resp: 1023181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.6 | 12.9 | 38.6 |
| 91 | 24.3 | 12.1 | 36.3 |



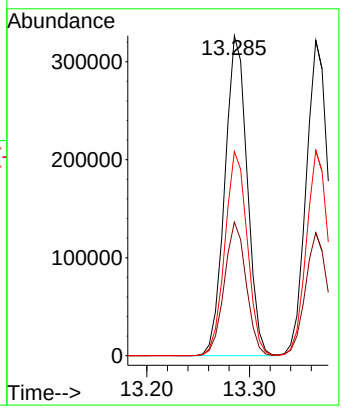


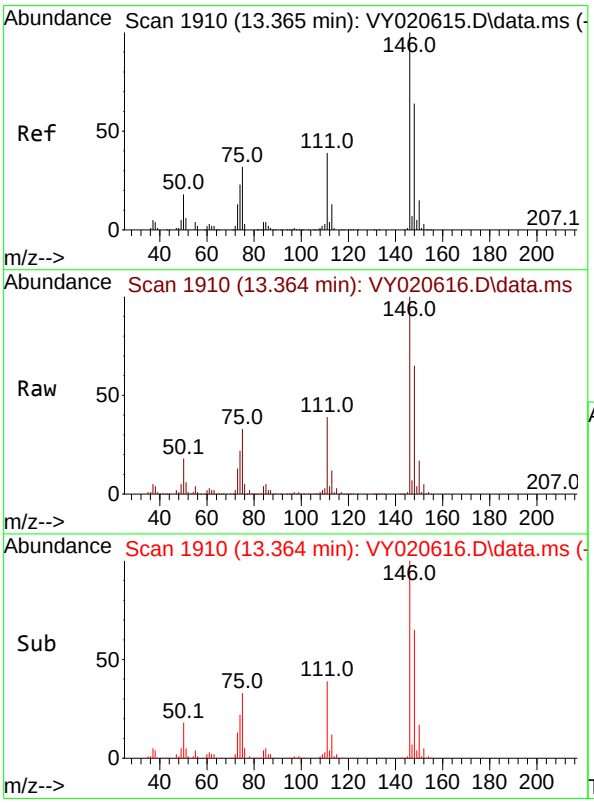

#87
1,3-Dichlorobenzene
Concen: 97.633 ug/l
RT: 13.285 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 492097

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.6 | 61.8 |
| 148 | 63.8 | 31.4 | 94.0 |

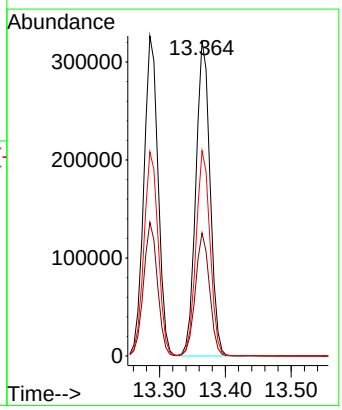


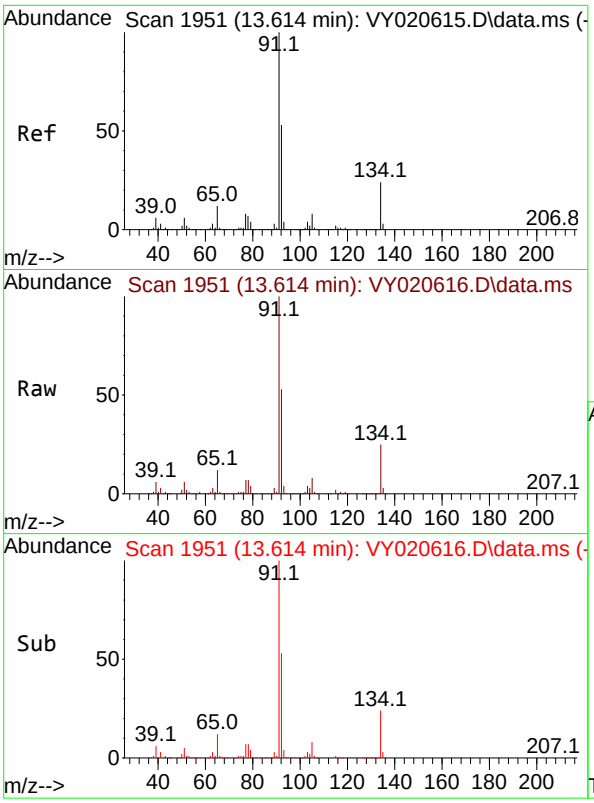




#88
1,4-Dichlorobenzene
Concen: 96.707 ug/l
RT: 13.364 min Scan# 1910
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:146 Resp: 482756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.7 | 19.6 | 58.7 |
| 148 | 64.1 | 31.9 | 95.5 |



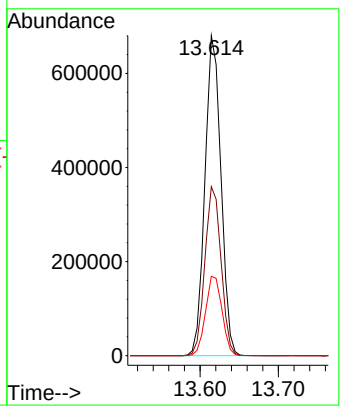


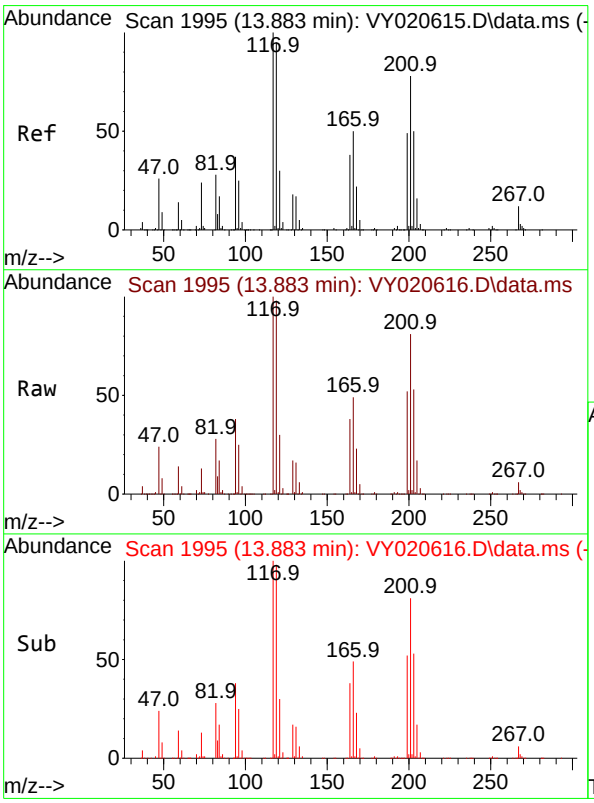

#89
n-Butylbenzene
Concen: 98.789 ug/l
RT: 13.614 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 966758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.3 | 26.8 | 80.4 |
| 134 | 25.5 | 12.5 | 37.5 |

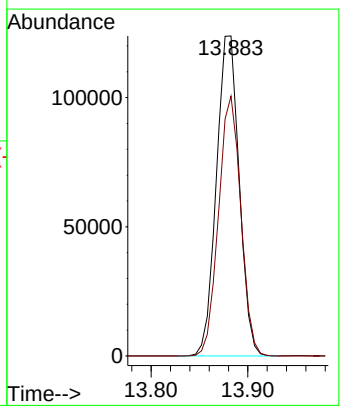


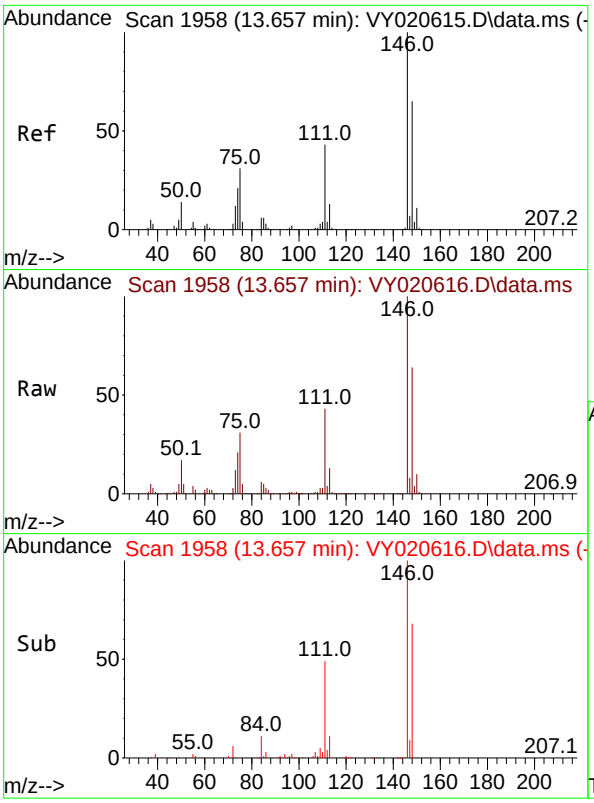




#90
Hexachloroethane
Concen: 98.910 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:117 Resp: 202399

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 79.3 | 39.1 | 117.3 |



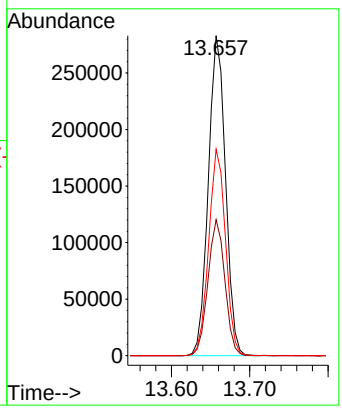


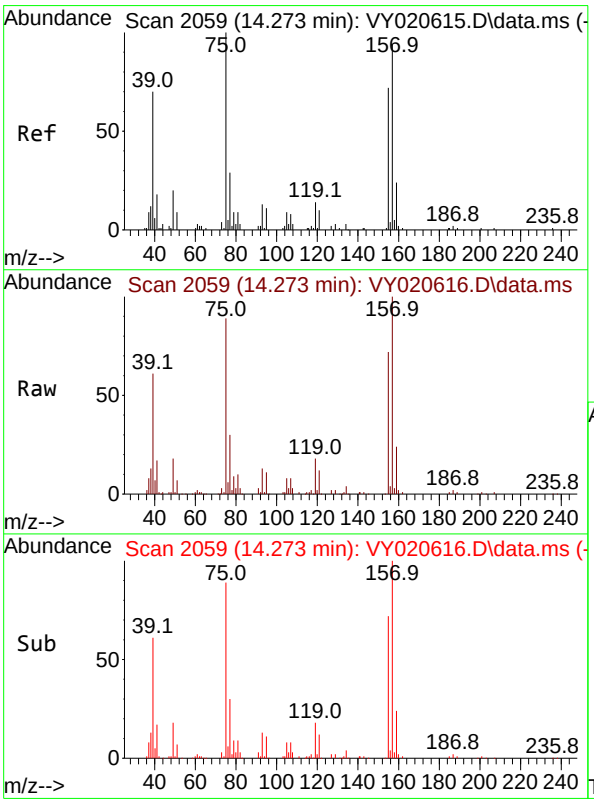

#91
1,2-Dichlorobenzene
Concen: 98.552 ug/l
RT: 13.657 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 430383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.9 | 21.3 | 63.7 |
| 148 | 63.3 | 32.0 | 96.0 |

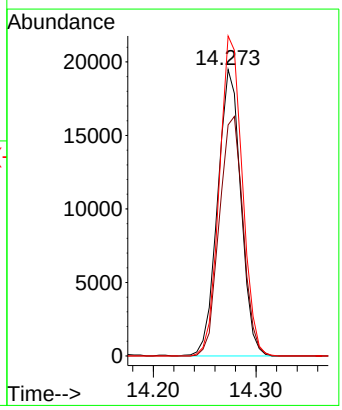


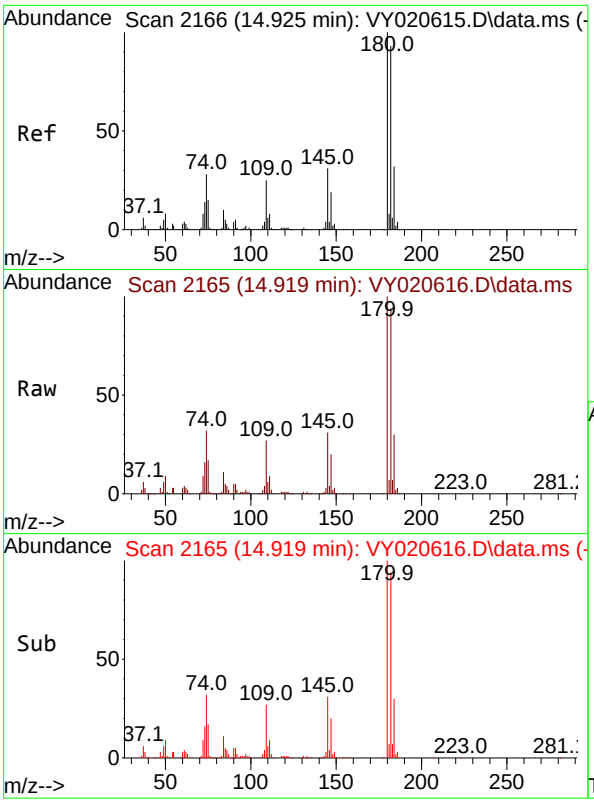




#92
1,2-Dibromo-3-Chloropropane
Concen: 99.008 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion: 75 Resp: 30584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 85.4 | 41.1 | 123.3 |
| 157 | 110.3 | 52.9 | 158.8 |



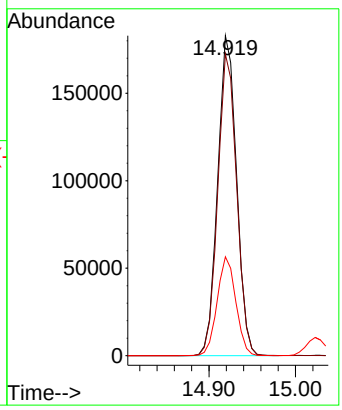


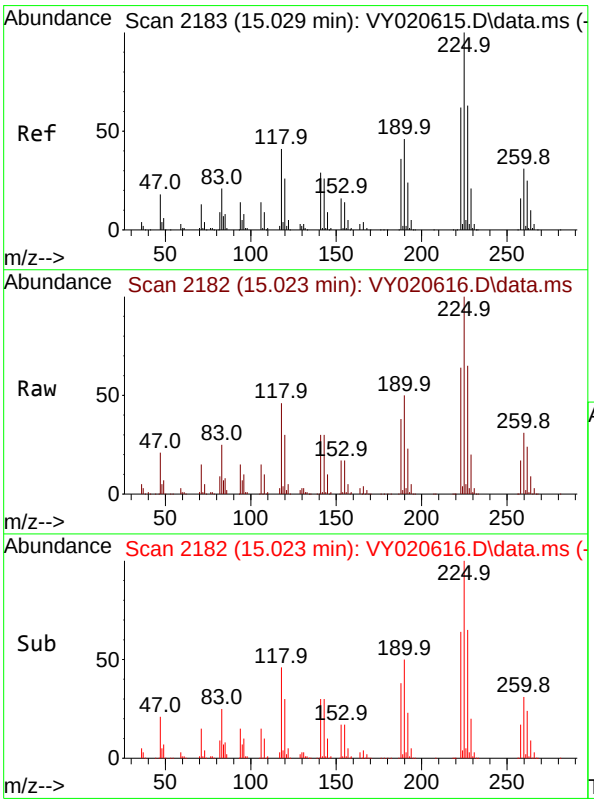

#93
1,2,4-Trichlorobenzene
Concen: 104.790 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:180 Resp: 276806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.5 | 47.9 | 143.6 |
| 145 | 30.6 | 15.6 | 46.7 |

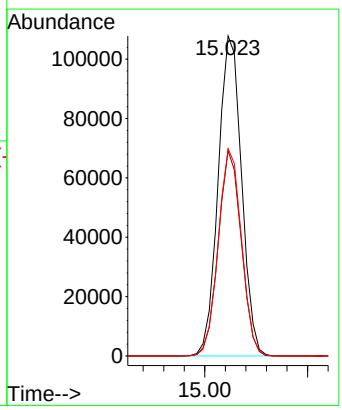


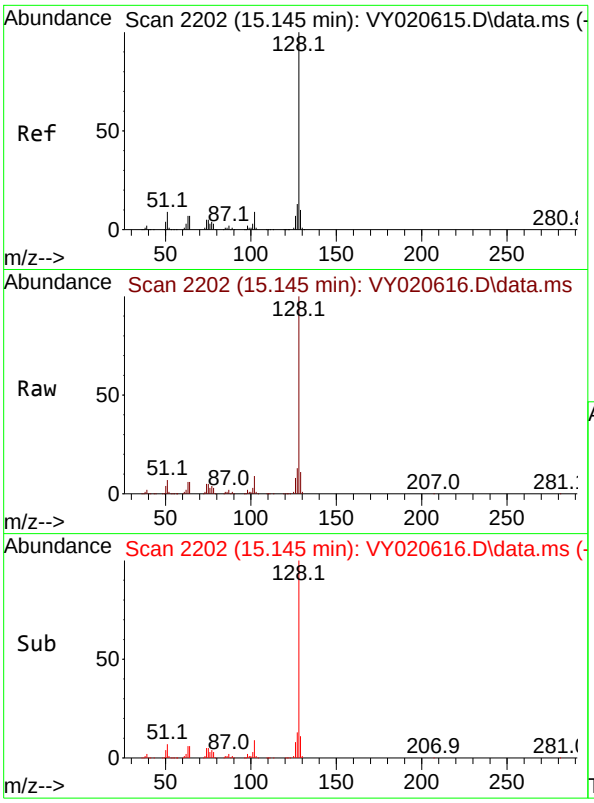




#94
Hexachlorobutadiene
Concen: 98.635 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:225 Resp: 170325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 31.8 | 95.3 |
| 227 | 64.1 | 32.2 | 96.6 |



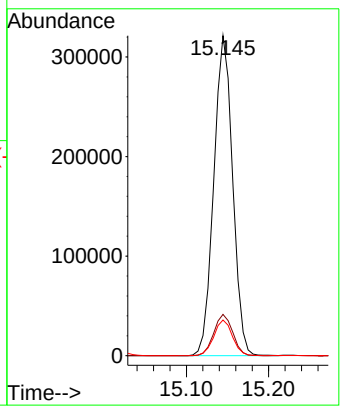


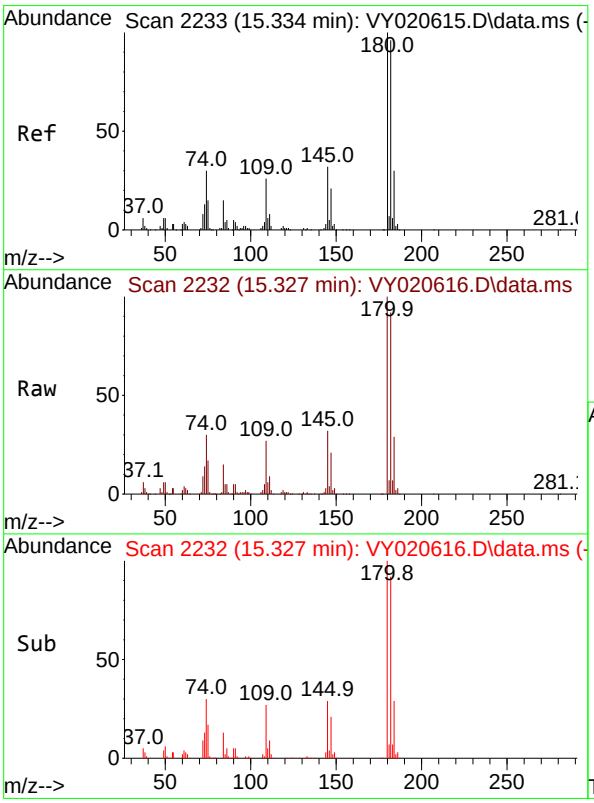

#95
Naphthalene
Concen: 113.046 ug/l
RT: 15.145 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:128 Resp: 511948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.7 | 16.1 |
| 129 | 11.1 | 8.5 | 12.7 |

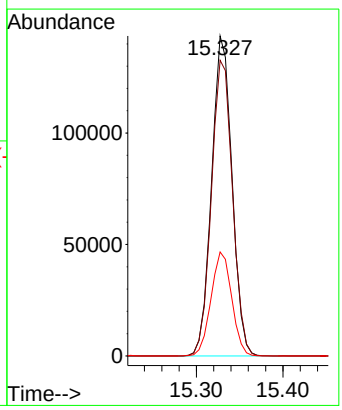



#96
1,2,3-Trichlorobenzene
Concen: 105.207 ug/l
RT: 15.327 min Scan# 2232
Delta R.T. -0.006 min
Lab File: VY020616.D
Acq: 17 Dec 2024 11:14

Tgt Ion:180 Resp: 234803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.3 | 141.9 |
| 145 | 33.0 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 184362 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 278509 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 244385 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 135852 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 258496 | 128.022 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 256.040%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 261486 | 133.217 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 266.440%# | | | |
| 50) Toluene-d8 | 10.103 | 98 | 919148 | 133.785 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 267.580%# | | | |
| 62) 4-Bromofluorobenzene | 12.402 | 95 | 343903 | 127.965 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 255.940%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.861 | 85 | 305452 | 132.646 | ug/l | 99 |
| 3) Chloromethane | 2.068 | 50 | 205555 | 120.474 | ug/l | 97 |
| 4) Vinyl Chloride | 2.202 | 62 | 206764 | 130.199 | ug/l | 100 |
| 5) Bromomethane | 2.586 | 94 | 140413 | 137.550 | ug/l | 99 |
| 6) Chloroethane | 2.727 | 64 | 138821 | 141.459 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.056 | 101 | 447890 | 134.789 | ug/l | 98 |
| 8) Diethyl Ether | 3.452 | 74 | 150374 | 129.035 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.812 | 101 | 297171 | 124.769 | ug/l | 100 |
| 10) Methyl Iodide | 4.001 | 142 | 345686 | 130.361 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 123878 | 737.397 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 291982 | 126.344 | ug/l | 98 |
| 13) Acrolein | 3.653 | 56 | 42281 | 442.848 | ug/l | 97 |
| 14) Allyl chloride | 4.385 | 41 | 498233 | 123.037 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 365294 | 655.216 | ug/l | 98 |
| 16) Acetone | 3.867 | 43 | 229404 | 580.396 | ug/l | 98 |
| 17) Carbon Disulfide | 4.104 | 76 | 923365 | 122.748 | ug/l | 100 |
| 18) Methyl Acetate | 4.385 | 43 | 161535 | 117.584 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 810589 | 135.895 | ug/l | 96 |
| 20) Methylene Chloride | 4.616 | 84 | 329862 | 131.394 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.110 | 96 | 351487 | 135.586 | ug/l | 99 |
| 22) Diisopropyl ether | 6.019 | 45 | 1089955 | 132.601 | ug/l | 99 |
| 23) Vinyl Acetate | 5.958 | 43 | 3123065 | 670.840 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 648906 | 134.755 | ug/l | 100 |
| 25) 2-Butanone | 6.890 | 43 | 458674 | 611.252 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 575868 | 126.503 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 400187 | 134.176 | ug/l | 99 |
| 28) Bromochloromethane | 7.244 | 49 | 238929 | 147.100 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 305396 | 644.700 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 656177 | 145.857 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 584271 | 126.896 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 600711 | 135.784 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 485468 | 135.636 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 213468 | 126.794 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 548361 | 138.477 | ug/l | 98 |
| 39) Methylcyclohexane | 9.110 | 83 | 640301 | 137.259 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 1431012 | 136.402 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 119101 | 133.813 ug/l | | 95 |
| 42) 1,2-Dichloroethane | 8.159 | 62 | 377438 | 135.647 ug/l | | 100 |
| 43) Isopropyl Acetate | 8.195 | 43 | 433206 | 135.916 ug/l | | 100 |
| 44) Trichloroethene | 8.866 | 130 | 352263 | 136.648 ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 335340 | 136.766 ug/l | | 98 |
| 46) Dibromomethane | 9.225 | 93 | 174812 | 134.905 ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 485795 | 138.787 ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 210550 | 138.957 ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 41221 | 2773.834 ug/l | | 100 |
| 51) 4-Methyl-2-Pentanone | 9.994 | 43 | 1092140 | 649.161 ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 904033 | 138.659 ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 464905 | 142.541 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 540157 | 139.760 ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.567 | 97 | 230372 | 134.466 ug/l | | 97 |
| 56) Ethyl methacrylate | 10.439 | 69 | 363115 | 146.095 ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 413542 | 135.406 ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 826777 | 790.569 ug/l | | 99 |
| 59) 2-Hexanone | 10.756 | 43 | 731842 | 677.527 ug/l | | 98 |
| 60) Dibromochloromethane | 10.908 | 129 | 318266 | 138.906 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 218394 | 137.043 ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 309587 | 134.678 ug/l | | 97 |
| 65) Chlorobenzene | 11.438 | 112 | 948051 | 138.742 ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.512 | 131 | 324778 | 138.995 ug/l | | 98 |
| 67) Ethyl Benzene | 11.518 | 91 | 1770086 | 140.410 ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 1308282 | 279.114 ug/l | | 100 |
| 69) o-Xylene | 11.951 | 106 | 617079 | 141.099 ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 1031166 | 141.122 ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 183216 | 139.463 ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 1651138 | 139.276 ug/l | | 100 |
| 74) N-amyl acetate | 12.066 | 43 | 396216 | 142.807 ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 258787 | 134.480 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 351473 | 251.196 ug/l | # | 100 |
| 77) Bromobenzene | 12.530 | 156 | 357464 | 138.423 ug/l | | 100 |
| 78) n-propylbenzene | 12.597 | 91 | 1971458 | 138.026 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 1111362 | 138.298 ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 1332805 | 138.553 ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 96747 | 143.899 ug/l | | 98 |
| 82) 4-Chlorotoluene | 12.774 | 91 | 1135416 | 136.190 ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 1219521 | 139.985 ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 1313945 | 139.253 ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 1737212 | 137.147 ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 1456581 | 139.472 ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 693843 | 136.109 ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 684559 | 135.587 ug/l | | 100 |
| 89) n-Butylbenzene | 13.615 | 91 | 1382912 | 139.722 ug/l | | 99 |
| 90) Hexachloroethane | 13.877 | 117 | 293562 | 141.843 ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.658 | 146 | 611871 | 138.532 ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 43513 | 139.274 ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.919 | 180 | 403445 | 151.011 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.023 | 225 | 250003 | 143.145 ug/l | | 100 |
| 95) Naphthalene | 15.145 | 128 | 736677 | 160.836 ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.328 | 180 | 344880 | 152.787 ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

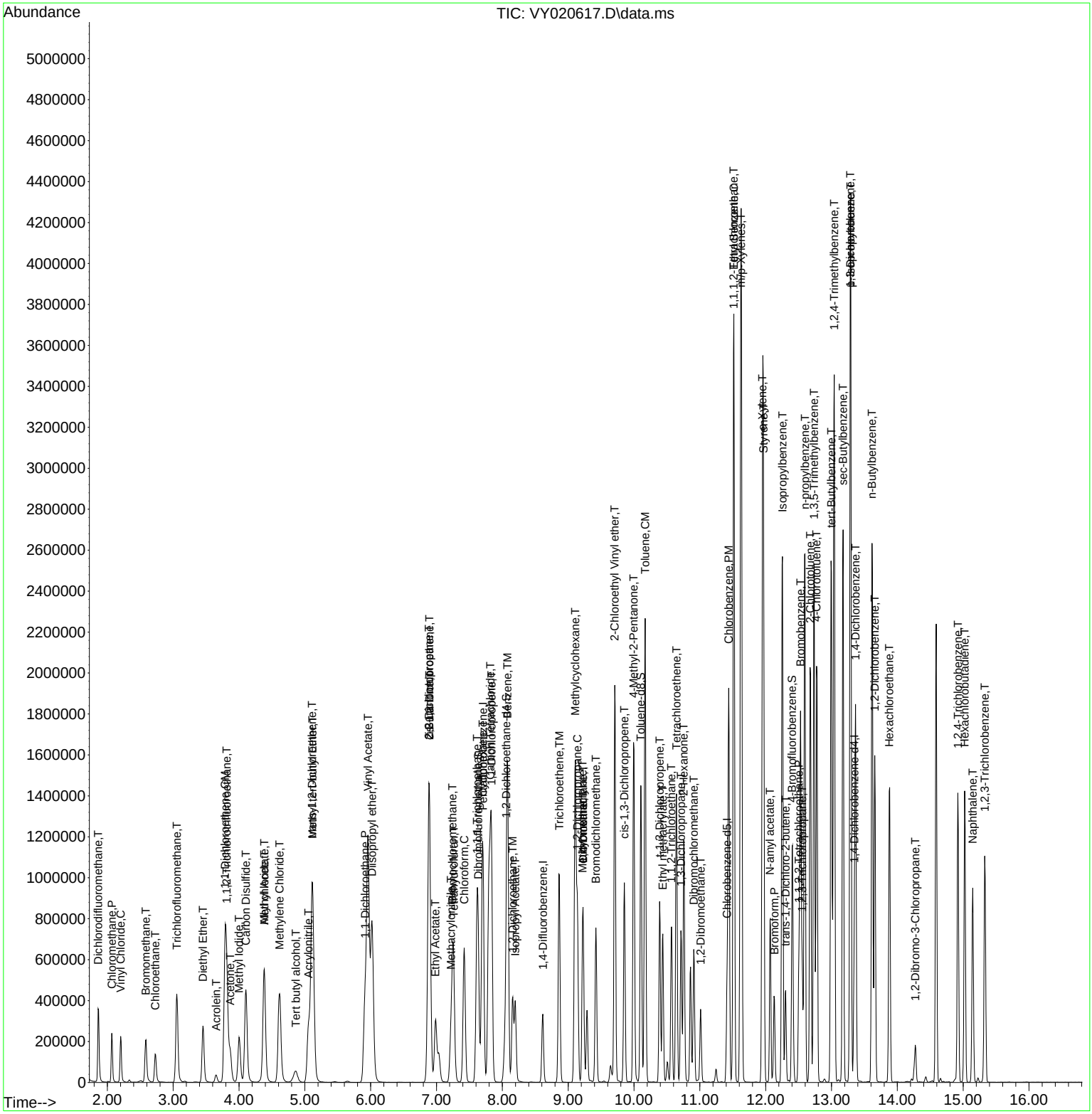
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

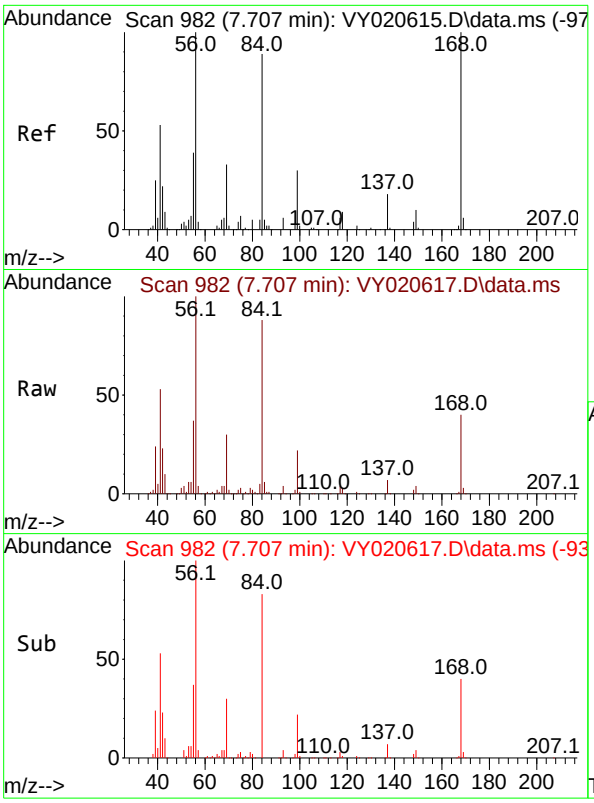
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020617.D
Acq On : 17 Dec 2024 11:37
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Dec 18 04:54:56 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration



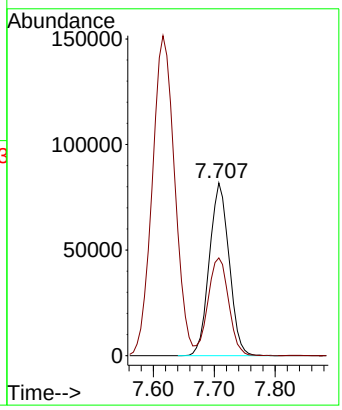


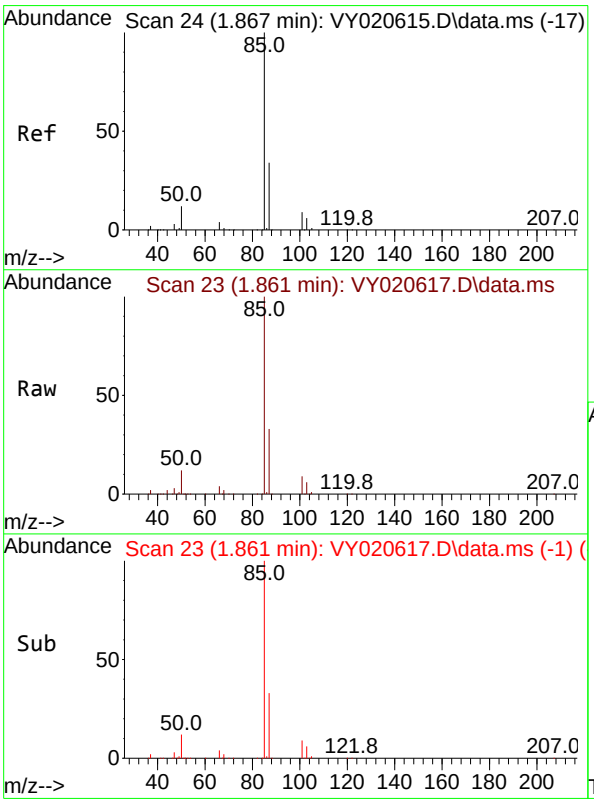

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:168 Resp: 184362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.5 | 47.0 | 70.6 |

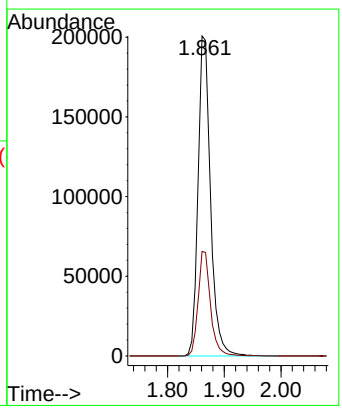


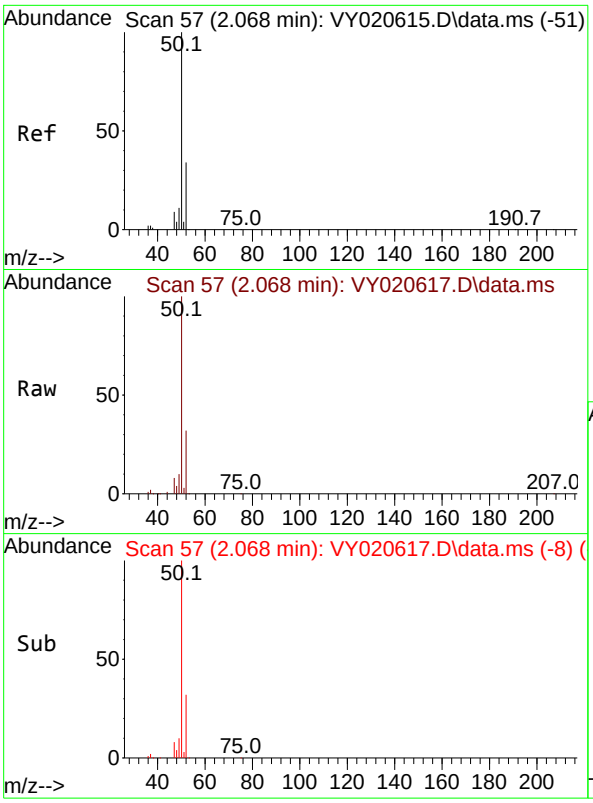




#2
Dichlorodifluoromethane
Concen: 132.646 ug/l
RT: 1.861 min Scan# 23
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 85 Resp: 305452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.7 | 16.8 | 50.3 |



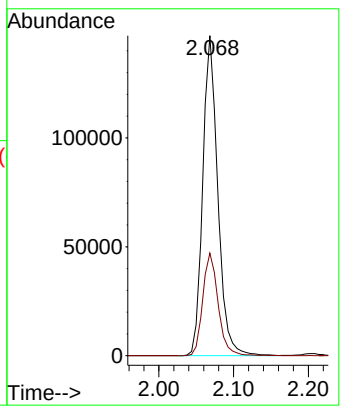


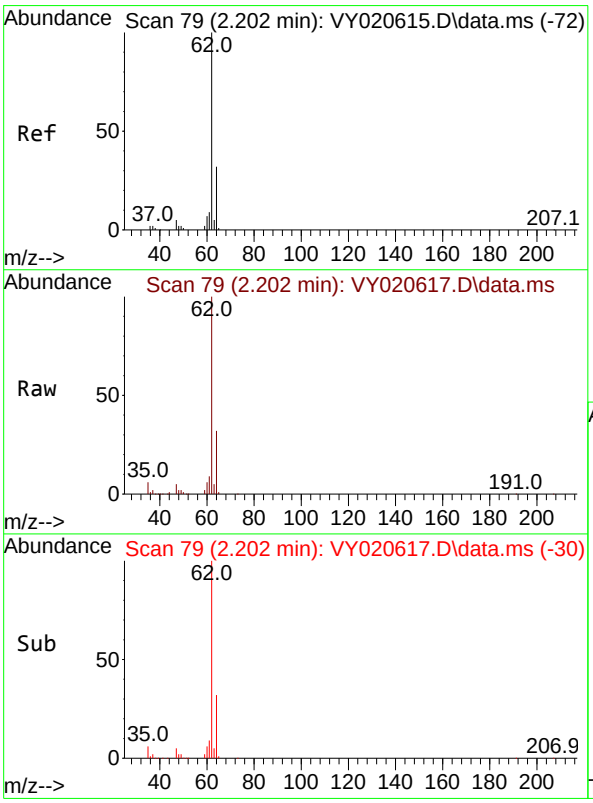

#3
Chloromethane
Concen: 120.474 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 50 Resp: 205555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.1 | 26.8 | 40.2 |

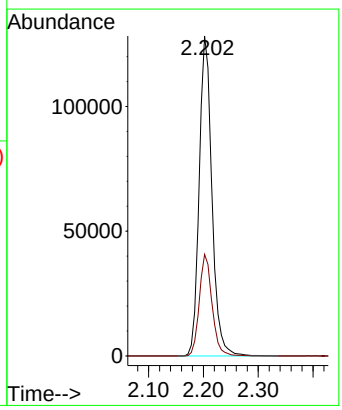


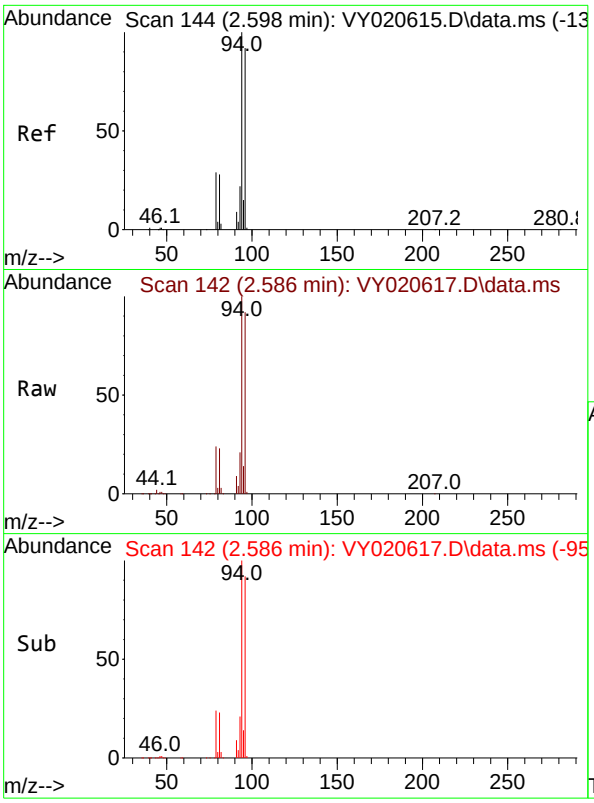




#4
Vinyl Chloride
Concen: 130.199 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 62 Resp: 206764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.3 | 37.9 |



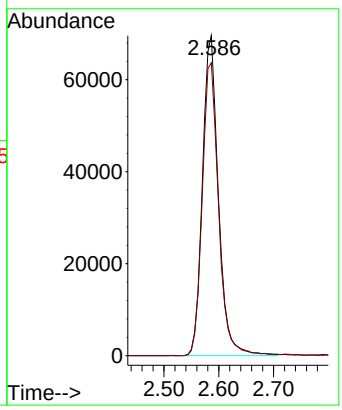


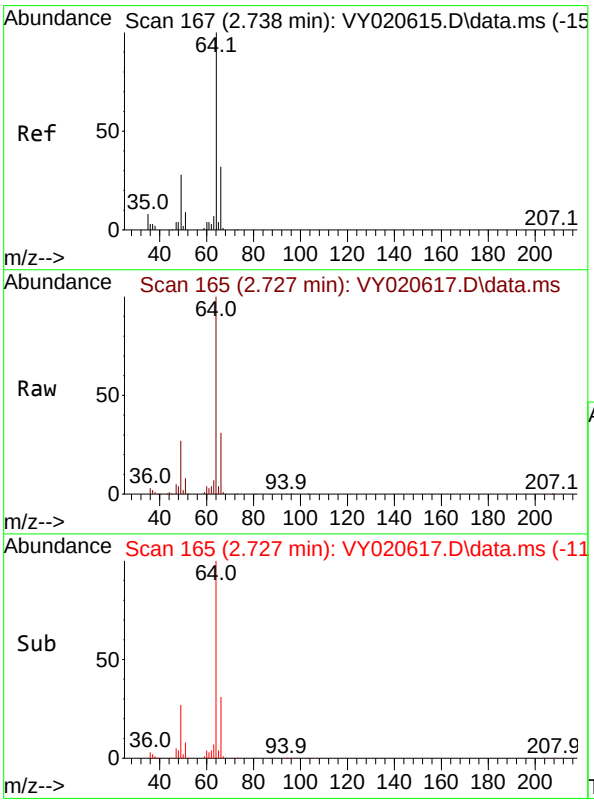

#5
Bromomethane
Concen: 137.550 ug/l
RT: 2.586 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 94 Resp: 140413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.5 | 73.8 | 110.6 |

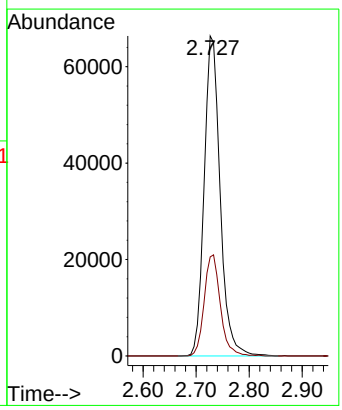


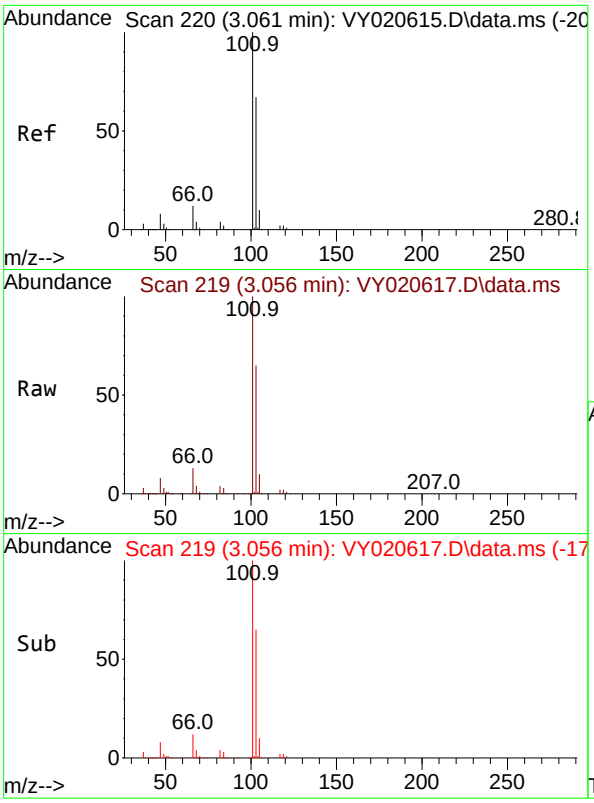




#6
Chloroethane
Concen: 141.459 ug/l
RT: 2.727 min Scan# 165
Delta R.T. -0.012 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 64 Resp: 138821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.0 | 25.8 | 38.6 |



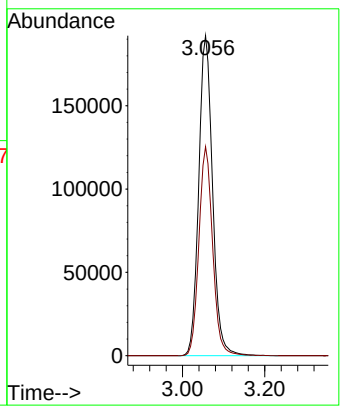


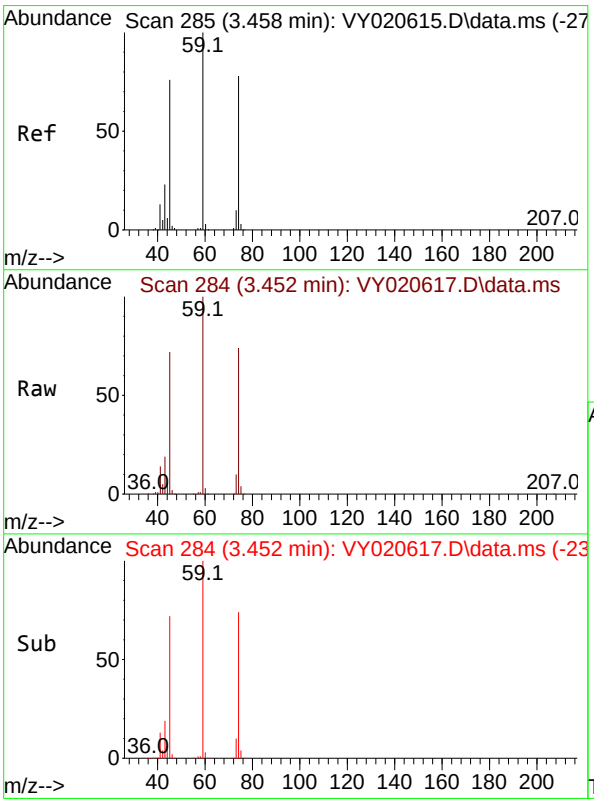

#7
Trichlorofluoromethane
Concen: 134.789 ug/l
RT: 3.056 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 447890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.3 | 53.4 | 80.0 |

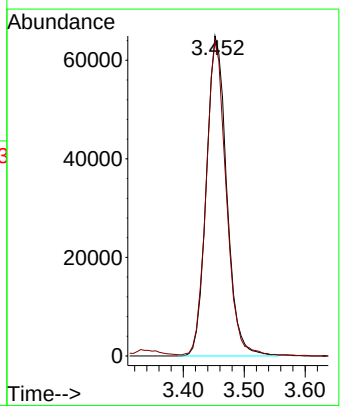


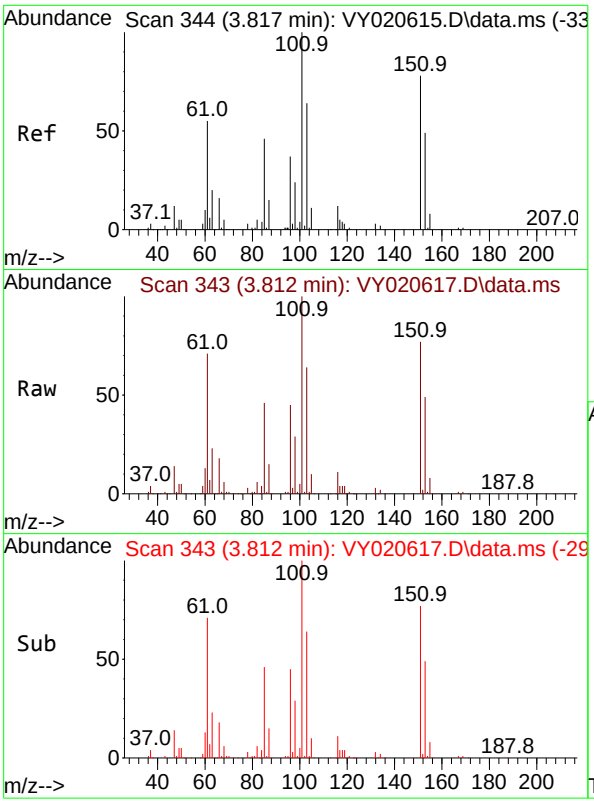




#8
Diethyl Ether
Concen: 129.035 ug/l
RT: 3.452 min Scan# 284
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 74 Resp: 150374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.8 | 49.0 | 147.2 |



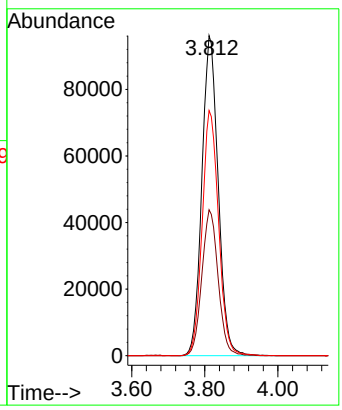


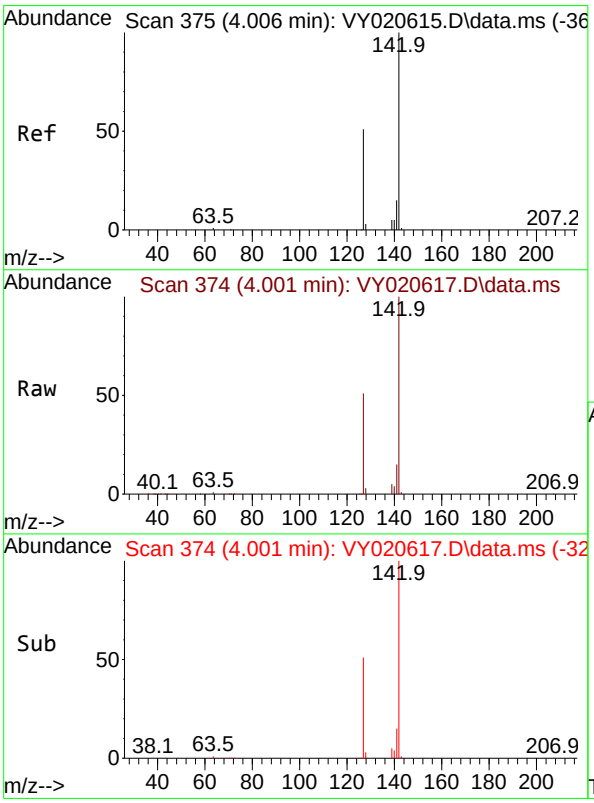

#9
1,1,2-Trichlorotrifluoroethane
Concen: 124.769 ug/l
RT: 3.812 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 297171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.5 | 36.6 | 54.8 |
| 151 | 77.2 | 61.5 | 92.3 |

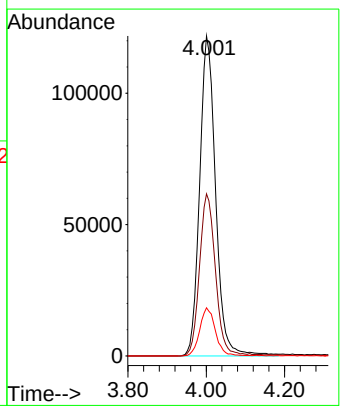


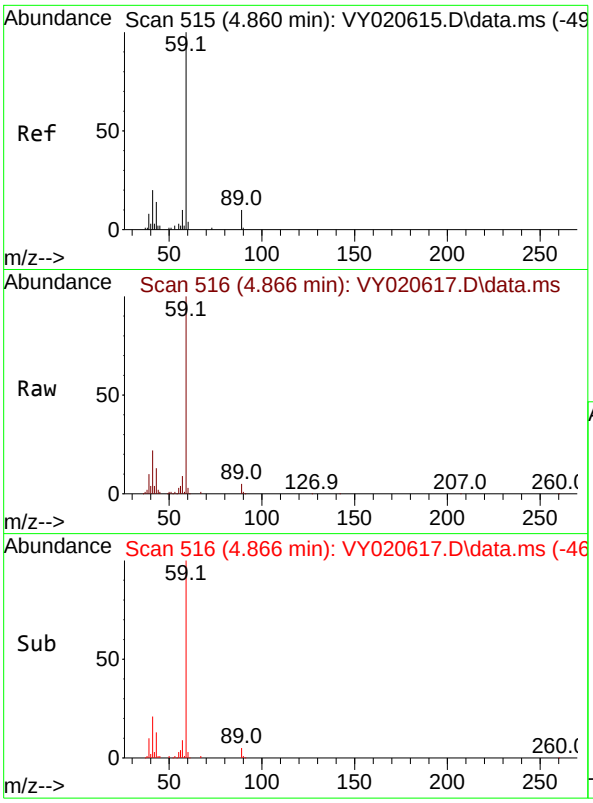




#10
Methyl Iodide
Concen: 130.361 ug/l
RT: 4.001 min Scan# 374
Delta R.T. -0.005 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:142 Resp: 345686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 50.4 | 40.6 | 61.0 |
| 141 | 14.8 | 11.7 | 17.5 |



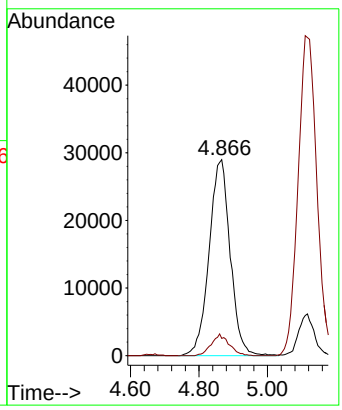


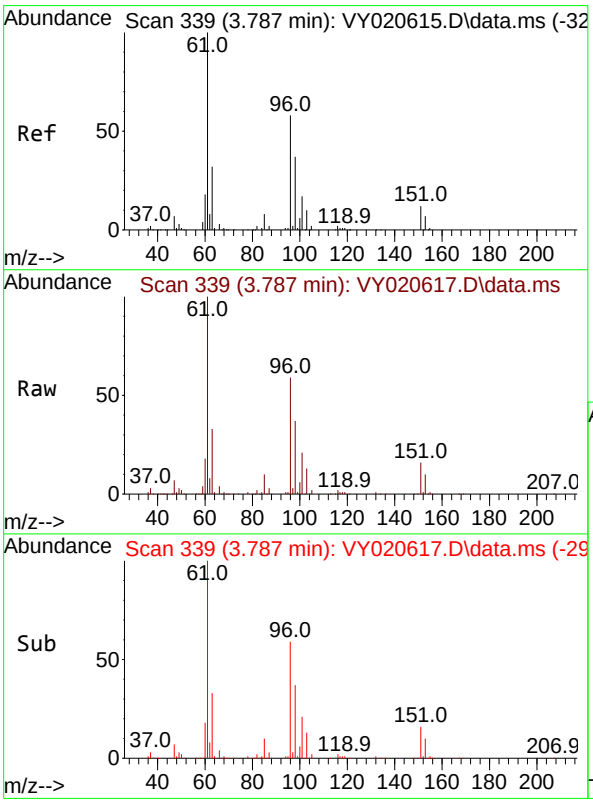

#11
Tert butyl alcohol
Concen: 737.397 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 59 Resp: 123878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.3 | 7.4 | 11.0 |

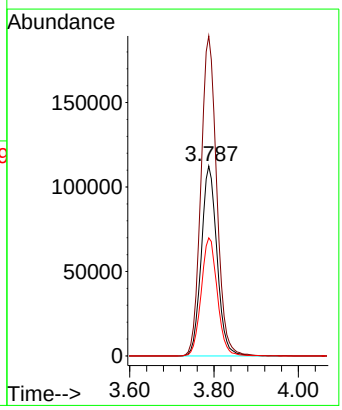


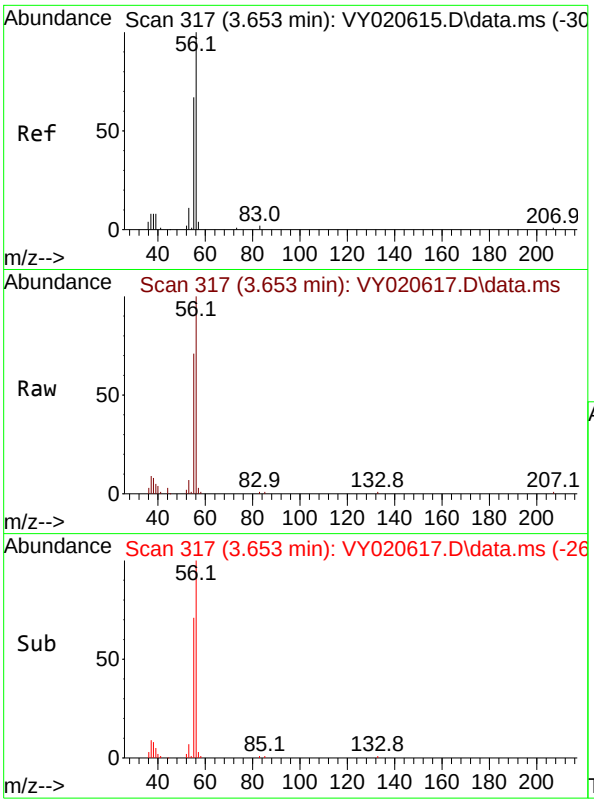




#12
1,1-Dichloroethene
Concen: 126.344 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 96 Resp: 291982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 168.5 | 136.9 | 205.3 |
| 98 | 62.2 | 50.2 | 75.4 |



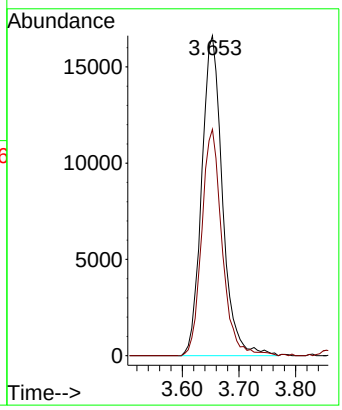


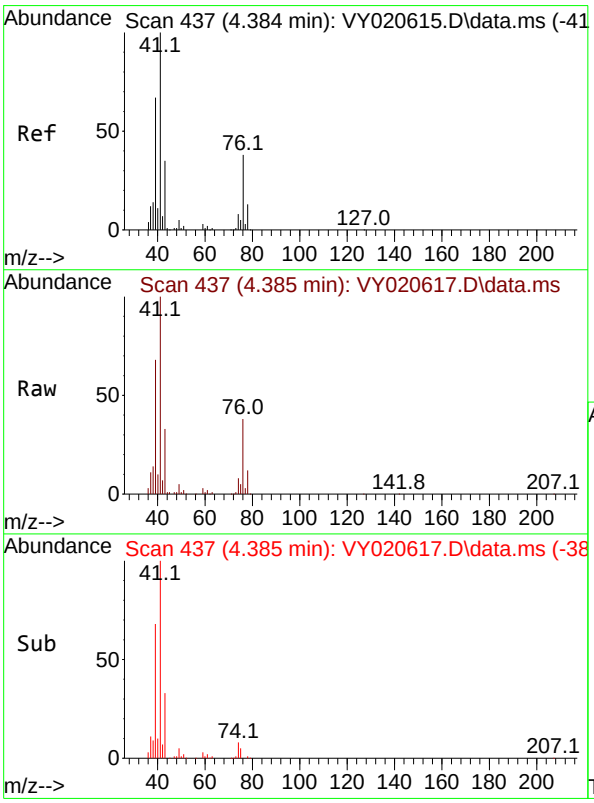

#13
Acrolein
Concen: 442.848 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 56 Resp: 42281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.2 | 57.5 | 86.3 |

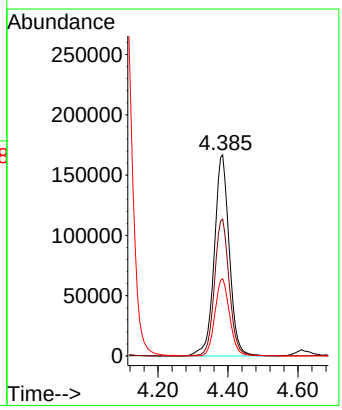


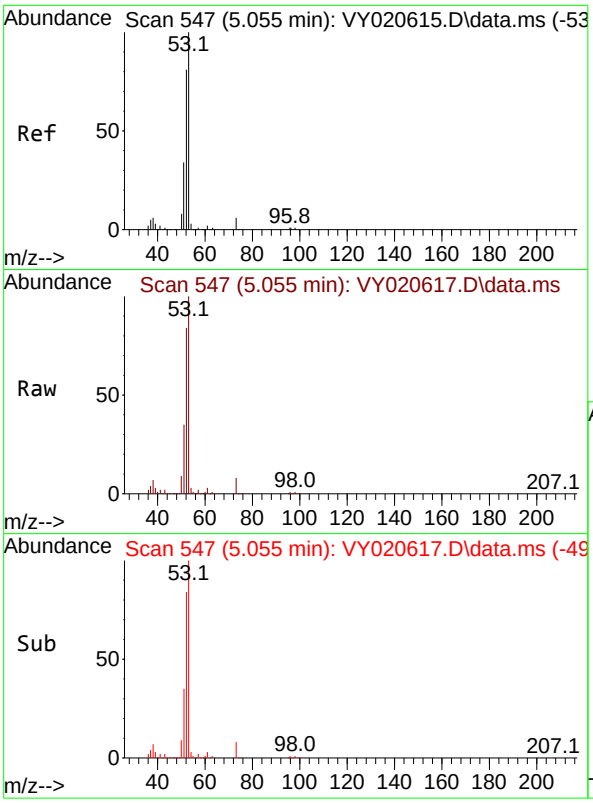




#14
Allyl chloride
Concen: 123.037 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 41 Resp: 498233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.8 | 53.0 | 79.4 |
| 76 | 37.4 | 29.5 | 44.3 |



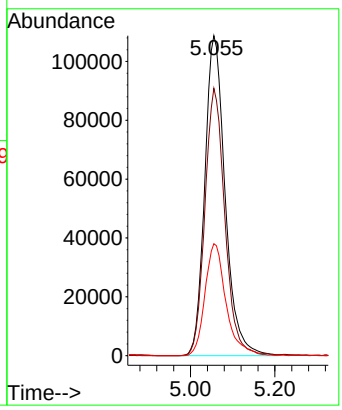


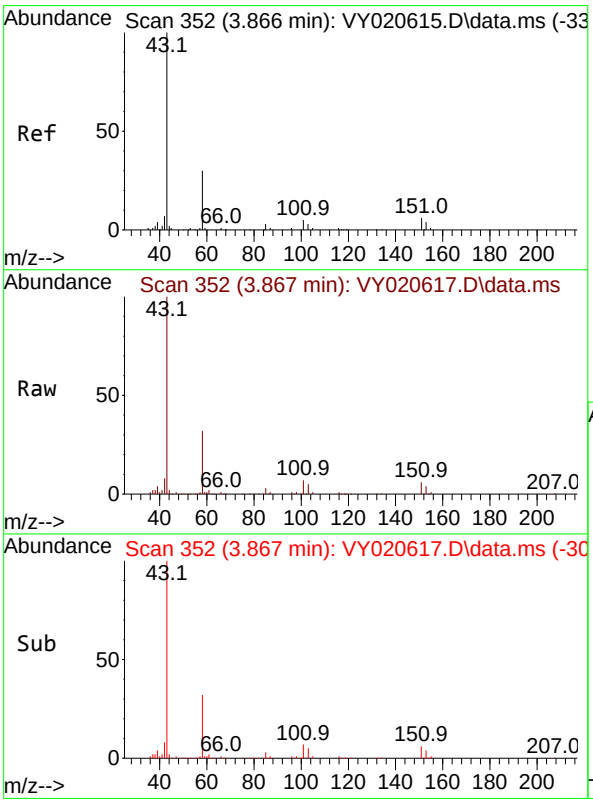

#15
Acrylonitrile
Concen: 655.216 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 53 Resp: 365294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.2 | 64.5 | 96.7 |
| 51 | 36.2 | 29.4 | 44.0 |

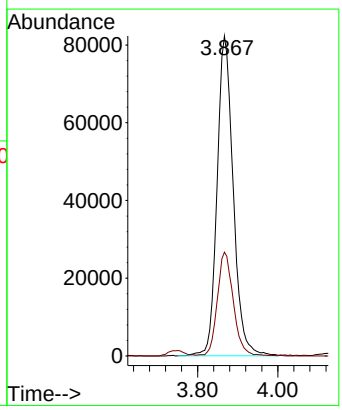


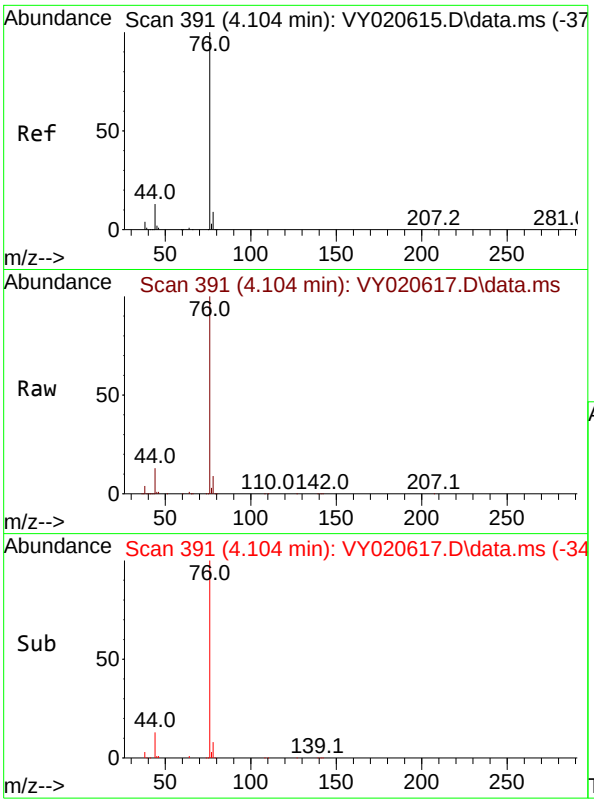




#16
Acetone
Concen: 580.396 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.001 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 229404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.4 | 25.0 | 37.6 |



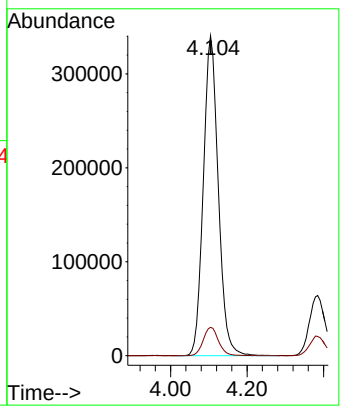


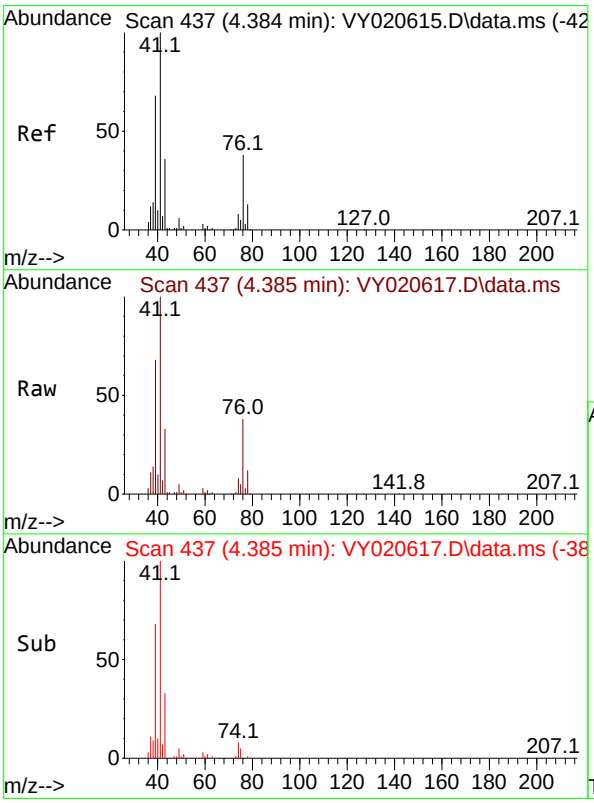

#17
Carbon Disulfide
Concen: 122.748 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 76 Resp: 923365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.2 | 10.8 |

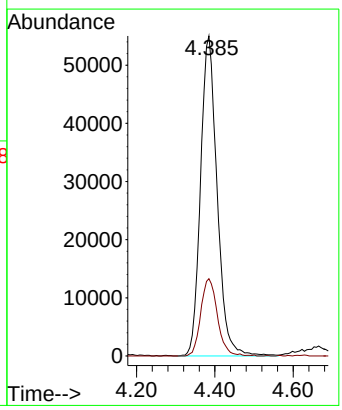


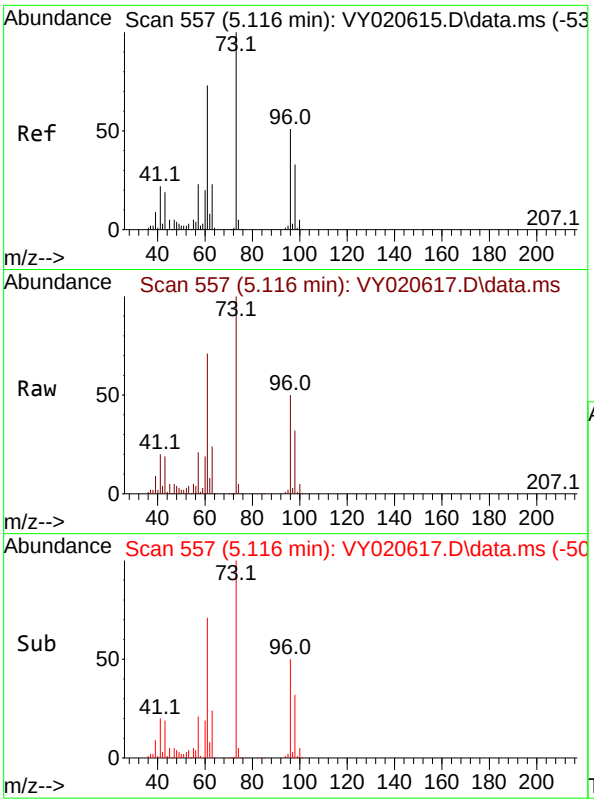




#18
Methyl Acetate
Concen: 117.584 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 161535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.2 | 19.2 | 28.8 |



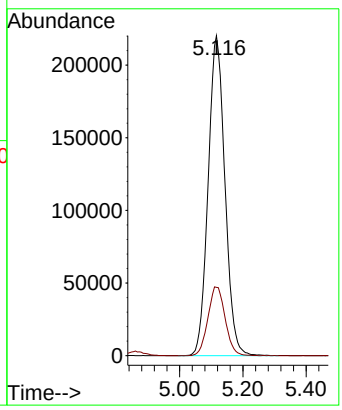


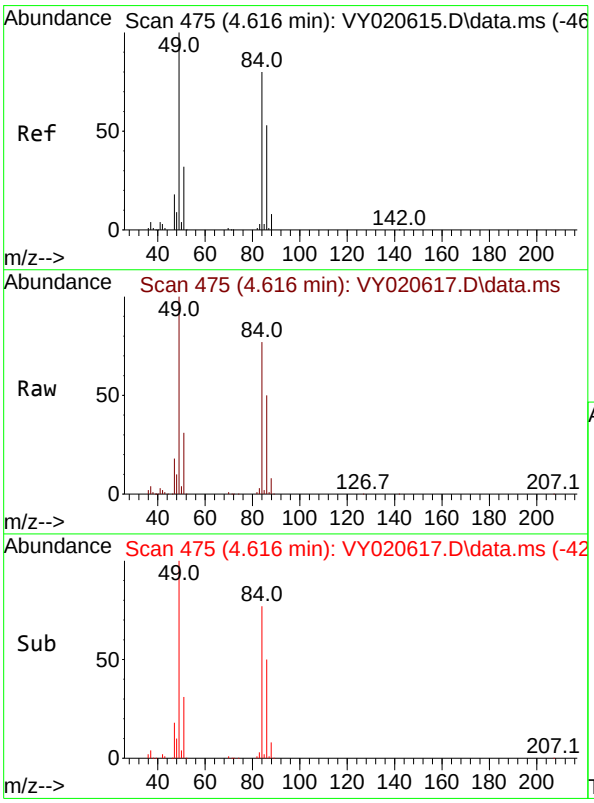

#19
Methyl tert-butyl Ether
Concen: 135.895 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 73 Resp: 810589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.4 | 18.5 | 27.7 |

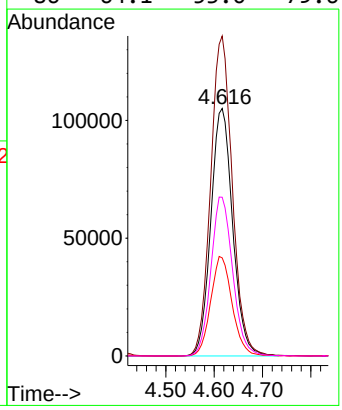


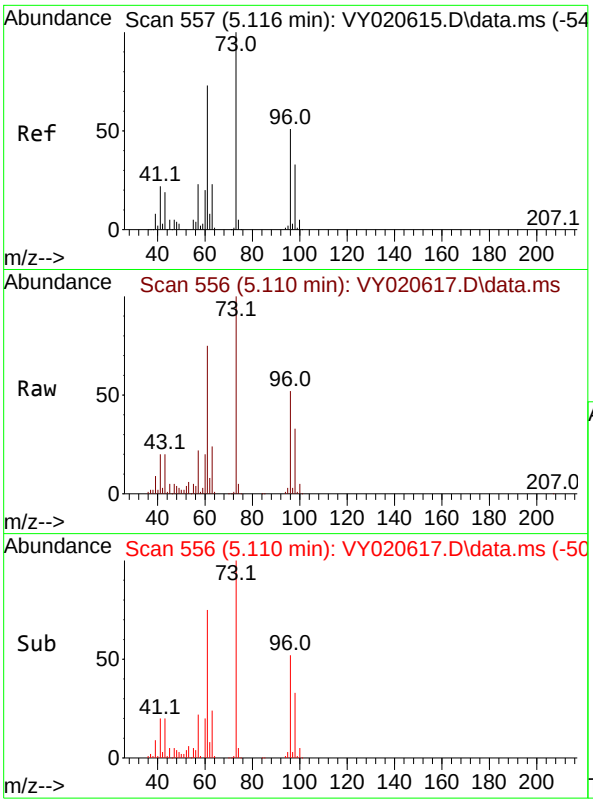




#20
Methylene Chloride
Concen: 131.394 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 84 Resp: 329862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 129.3 | 100.7 | 151.1 |
| 51 | 39.6 | 32.2 | 48.2 |
| 86 | 64.1 | 53.0 | 79.6 |



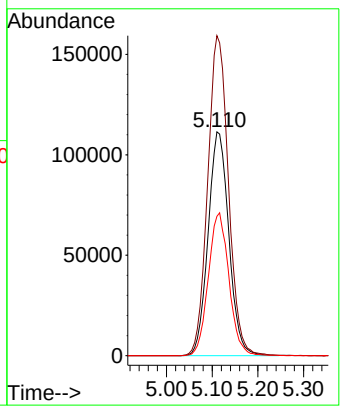


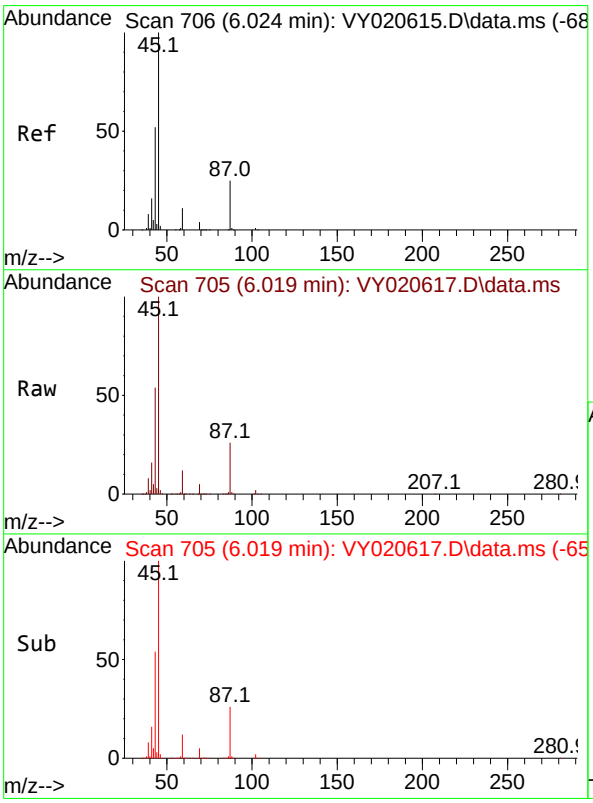

#21
trans-1,2-Dichloroethene
Concen: 135.586 ug/l
RT: 5.110 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 96 Resp: 351487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.9 | 113.7 | 170.5 |
| 98 | 62.2 | 51.7 | 77.5 |

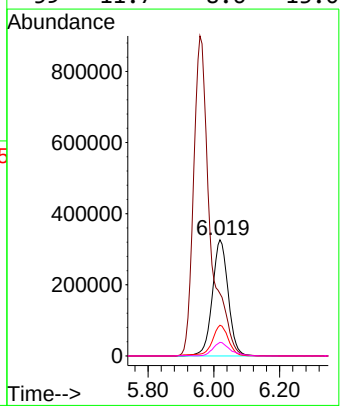


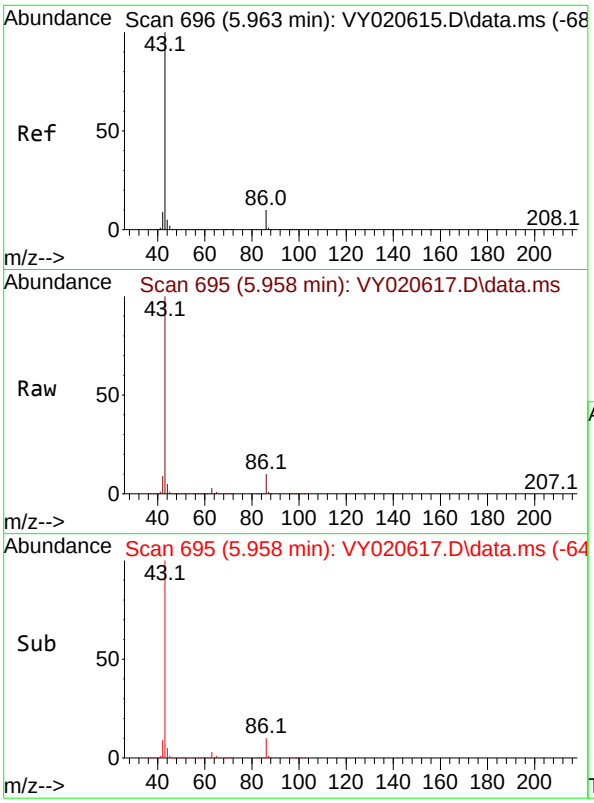




#22
Diisopropyl ether
Concen: 132.601 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 45 Resp: 1089955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 53.7 | 42.6 | 64.0 |
| 87 | 26.4 | 20.6 | 31.0 |
| 59 | 11.7 | 8.6 | 13.0 |



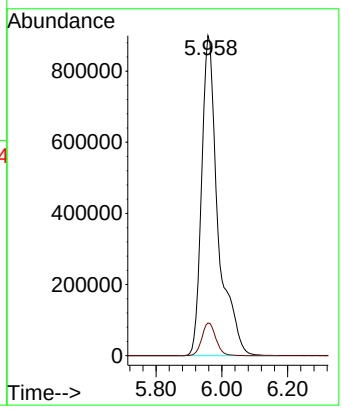


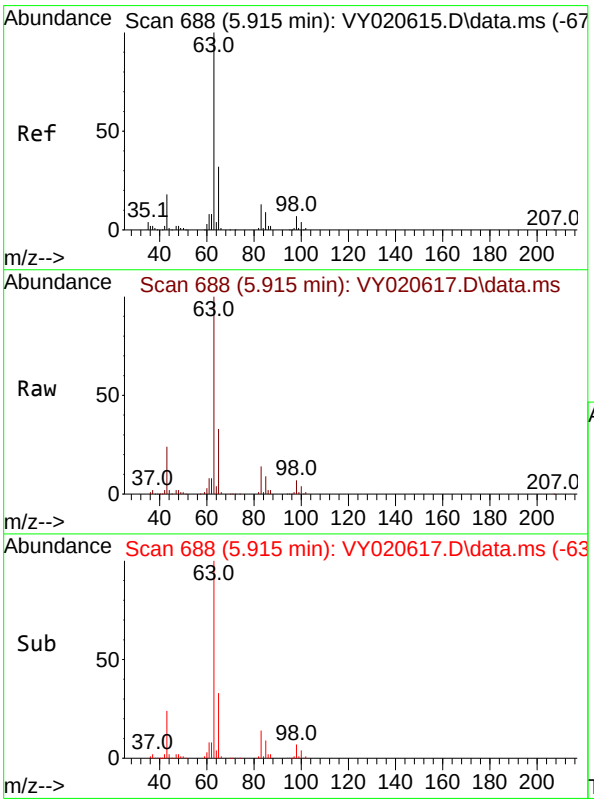

#23
Vinyl Acetate
Concen: 670.840 ug/l
RT: 5.958 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 3123065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.2 | 8.1 | 12.1 |

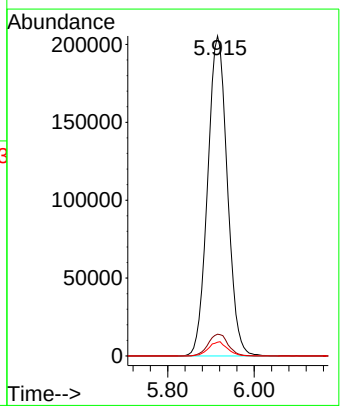


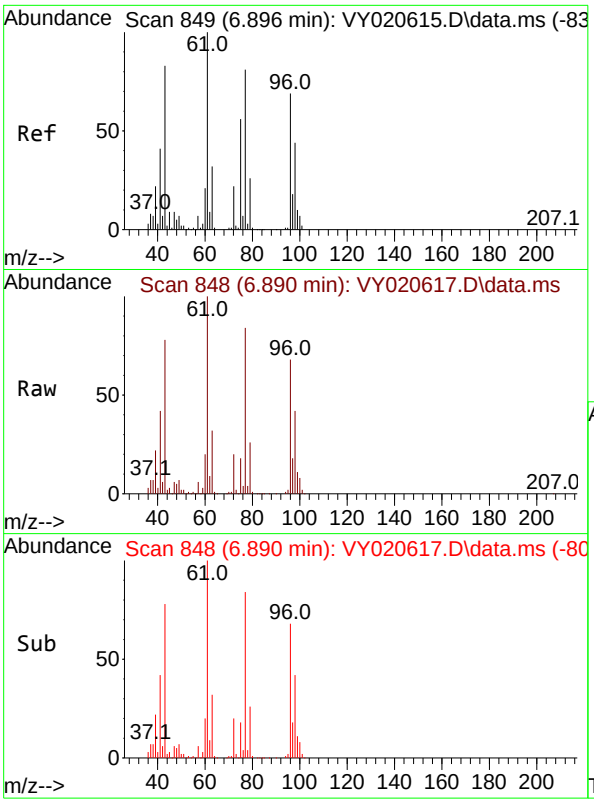




#24
1,1-Dichloroethane
Concen: 134.755 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 63 Resp: 648906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.8 | 3.4 | 10.1 |
| 100 | 4.3 | 2.1 | 6.5 |



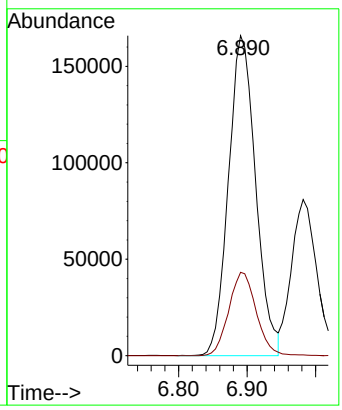


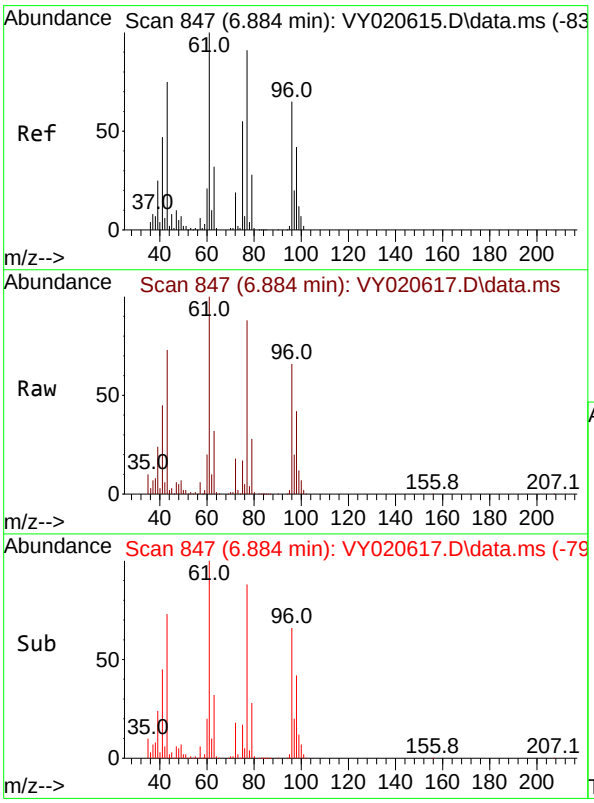

#25
2-Butanone
Concen: 611.252 ug/l
RT: 6.890 min Scan# 84
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 458674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.0 | 20.6 | 31.0 |

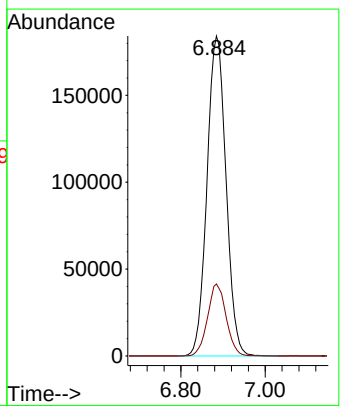


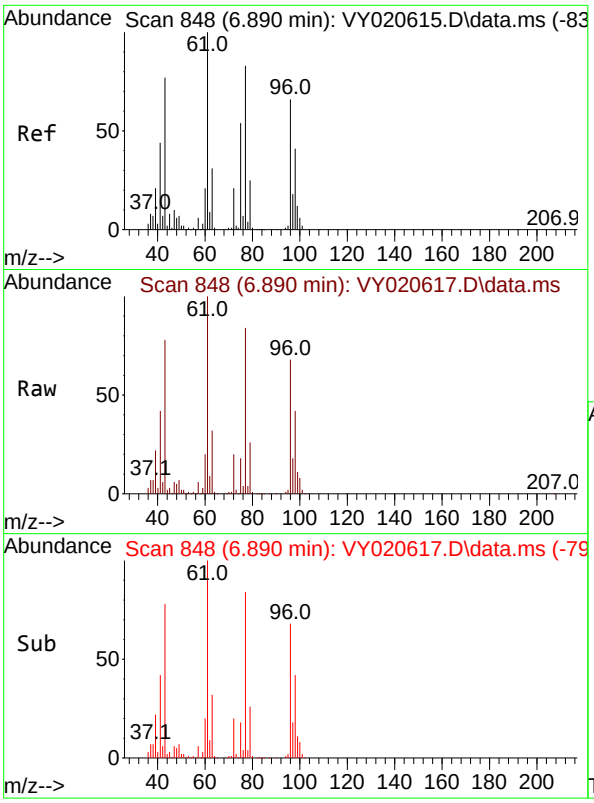




#26
2,2-Dichloropropane
Concen: 126.503 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 77 Resp: 575868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |



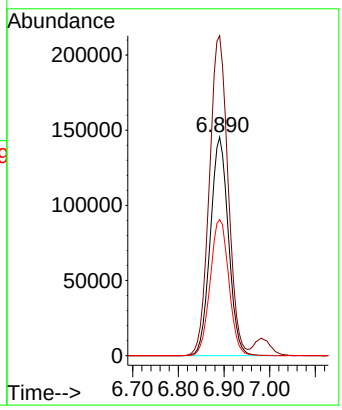


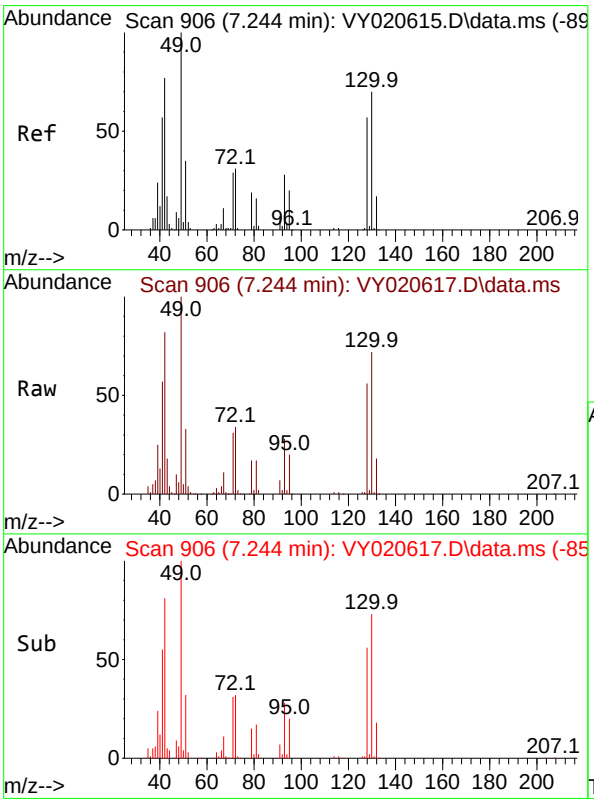

#27
cis-1,2-Dichloroethene
Concen: 134.176 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 96 Resp: 400187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.3 | 0.0 | 306.2 |
| 98 | 64.3 | 0.0 | 127.2 |

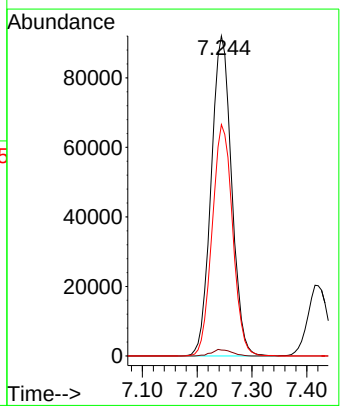


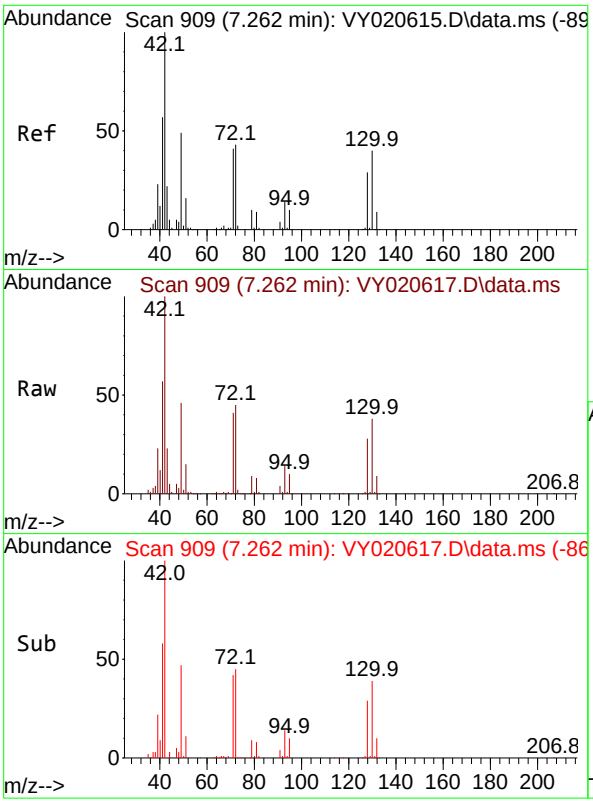




#28
Bromochloromethane
Concen: 147.100 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 49 Resp: 238929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 3.8 |
| 130 | 72.3 | 58.3 | 87.5 |



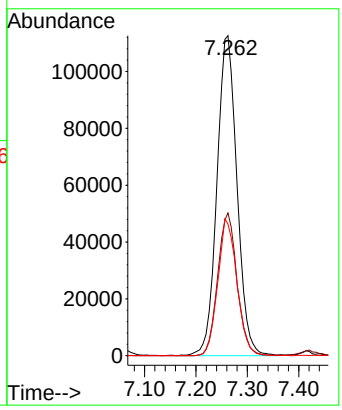


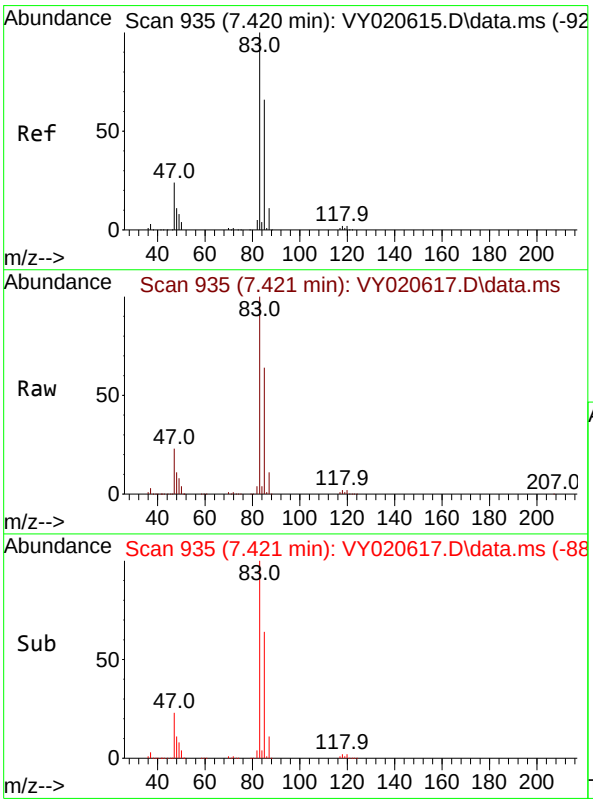

#29
Tetrahydrofuran
Concen: 644.700 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 42 Resp: 305396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.0 | 34.0 | 51.0 |
| 71 | 40.7 | 31.6 | 47.4 |

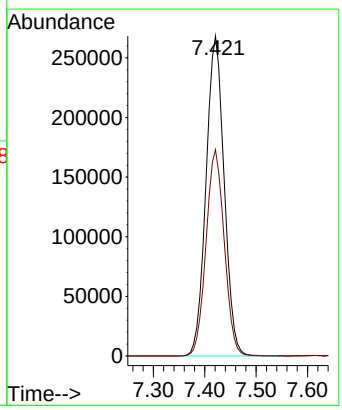


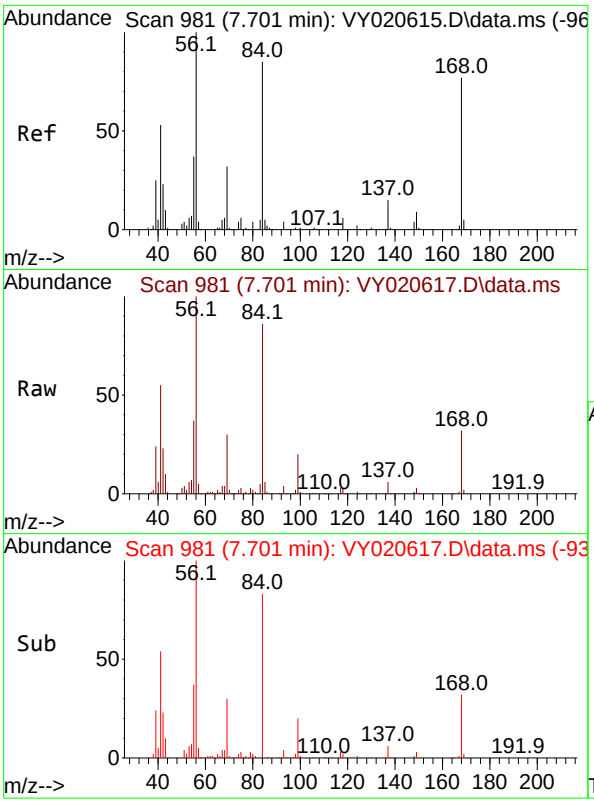




#30
Chloroform
Concen: 145.857 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 83 Resp: 656177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 52.7 | 79.1 |



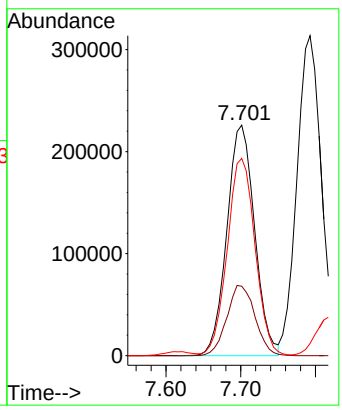


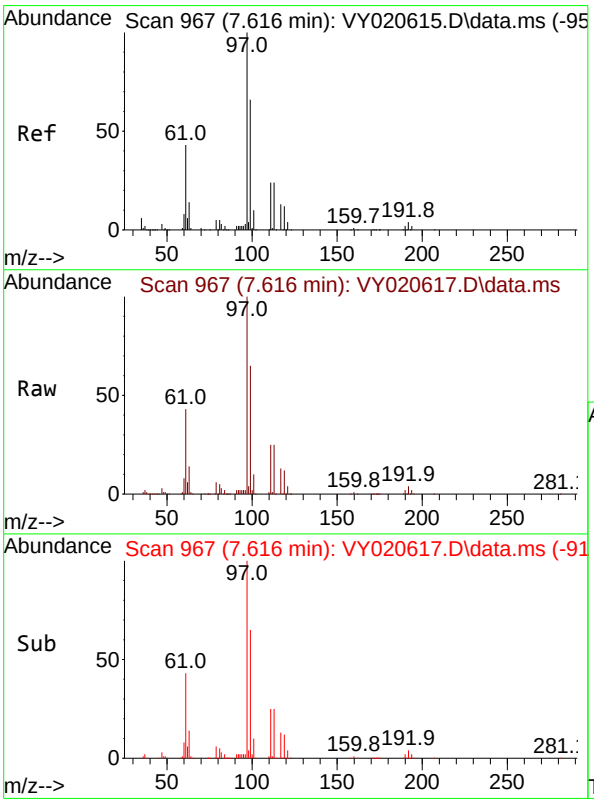

#31
Cyclohexane
Concen: 126.896 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 56 Resp: 584271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.1 | 25.4 | 38.0 |
| 84 | 83.9 | 68.3 | 102.5 |

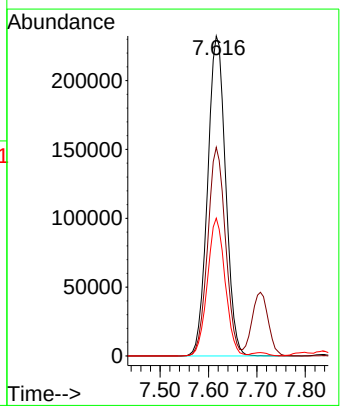


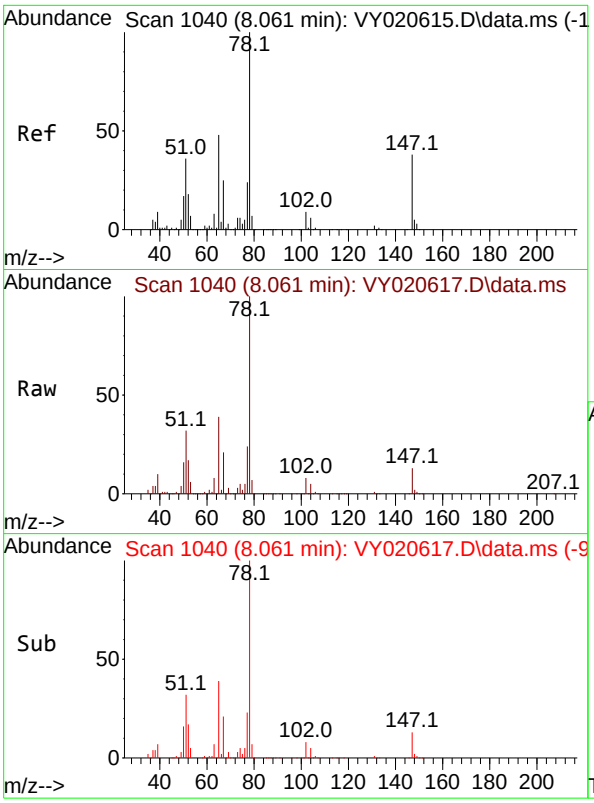




#32
1,1,1-Trichloroethane
Concen: 135.784 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 97 Resp: 600711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 42.4 | 34.7 | 52.1 |



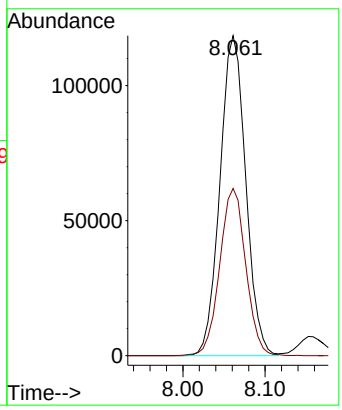


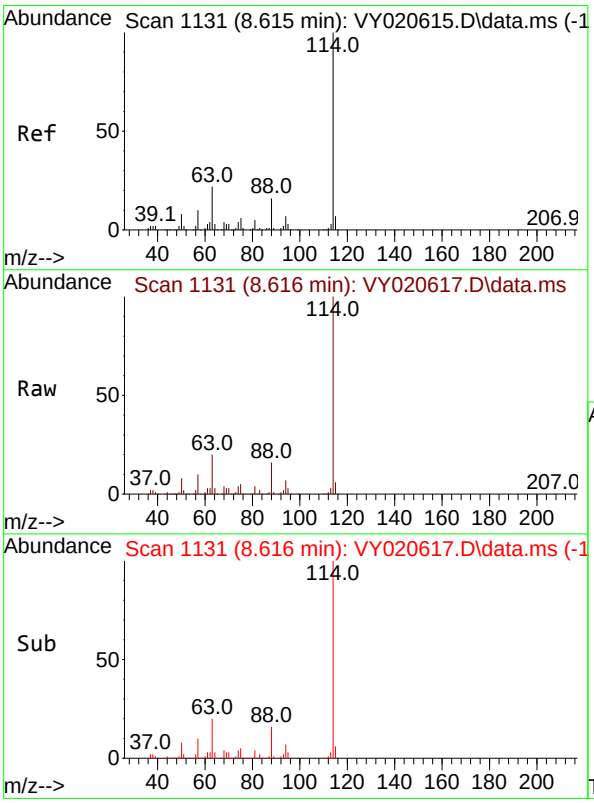

#33
1,2-Dichloroethane-d4
Concen: 128.022 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 65 Resp: 258496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.7 | 0.0 | 108.0 |

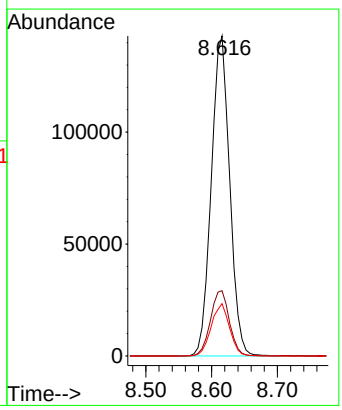


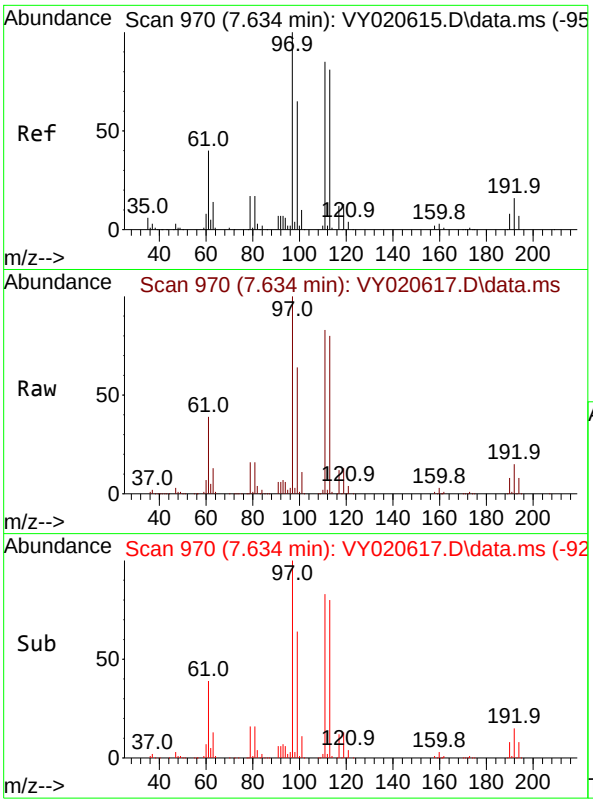




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:114 Resp: 278509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.4 | 0.0 | 44.0 |
| 88 | 16.3 | 0.0 | 32.8 |



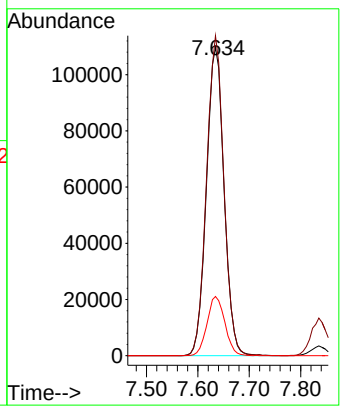


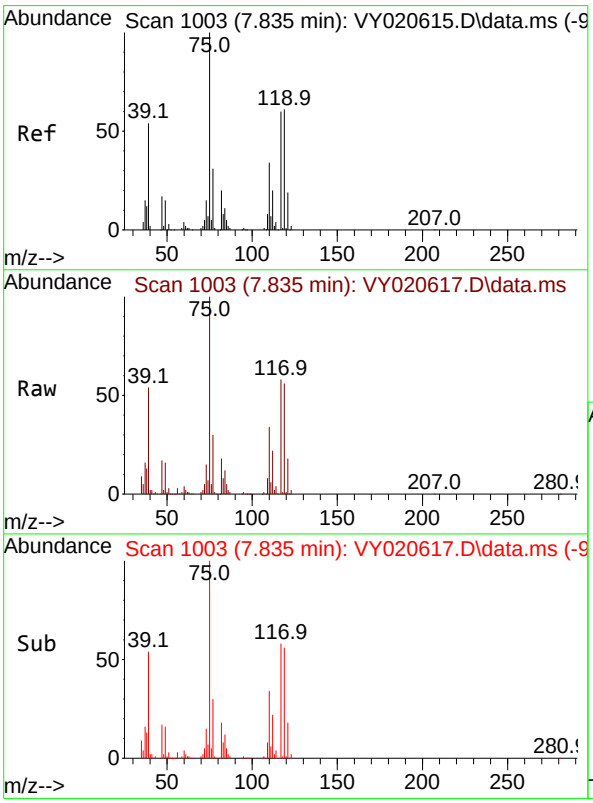

#35
Dibromofluoromethane
Concen: 133.217 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:113 Resp: 261486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 82.9 | 124.3 |
| 192 | 19.4 | 15.7 | 23.5 |

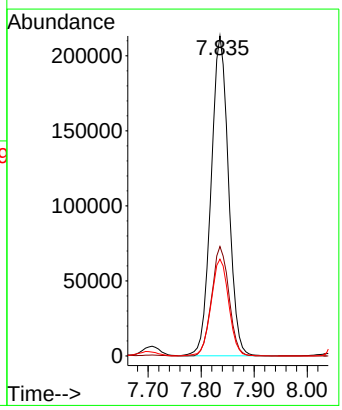


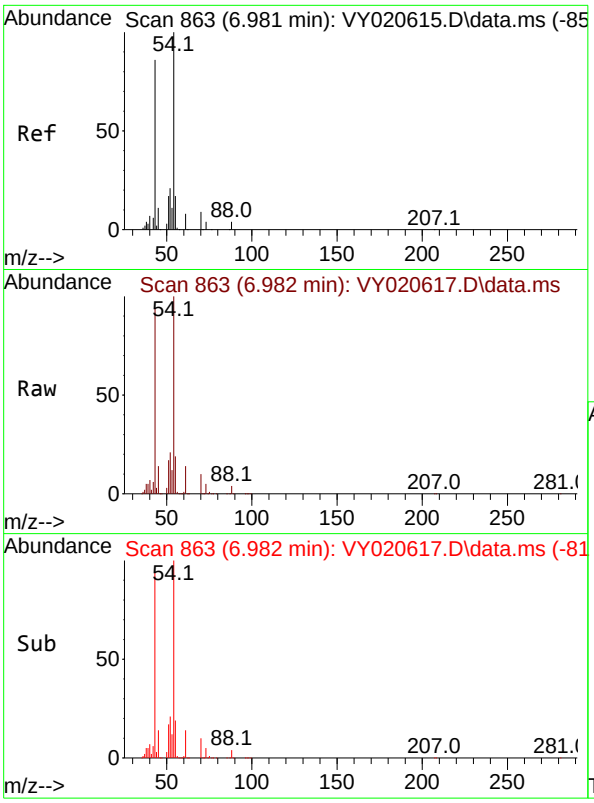




#36
1,1-Dichloropropene
Concen: 135.636 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 75 Resp: 485468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.0 | 16.8 | 50.4 |
| 77 | 30.8 | 25.0 | 37.6 |



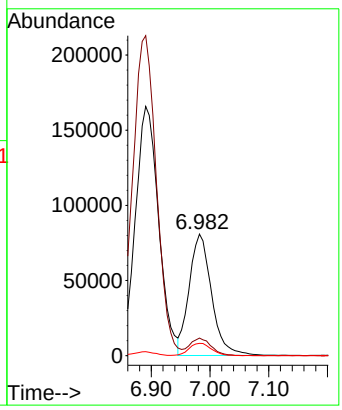


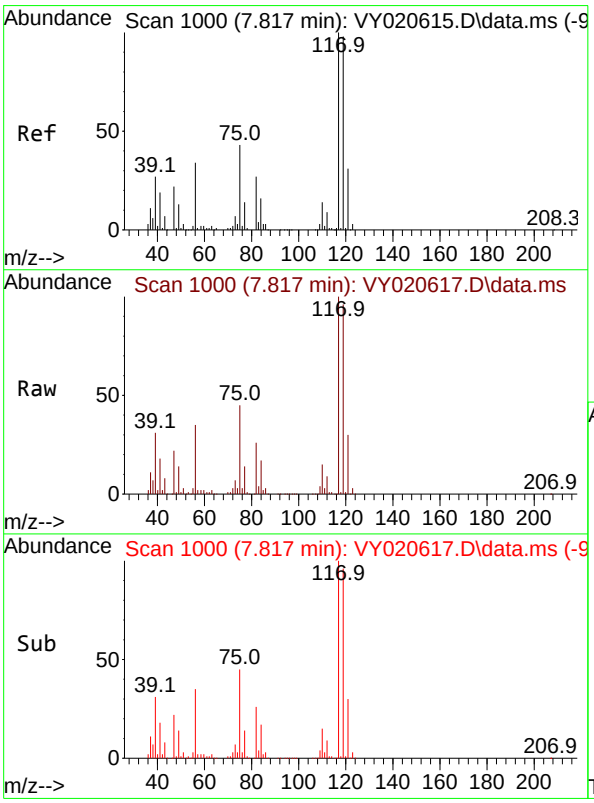

#37
Ethyl Acetate
Concen: 126.794 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 213468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.8 | 11.0 | 16.4 |
| 70 | 10.3 | 7.9 | 11.9 |

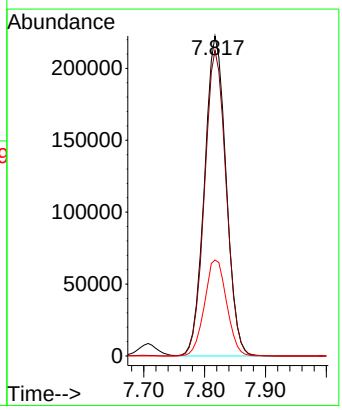


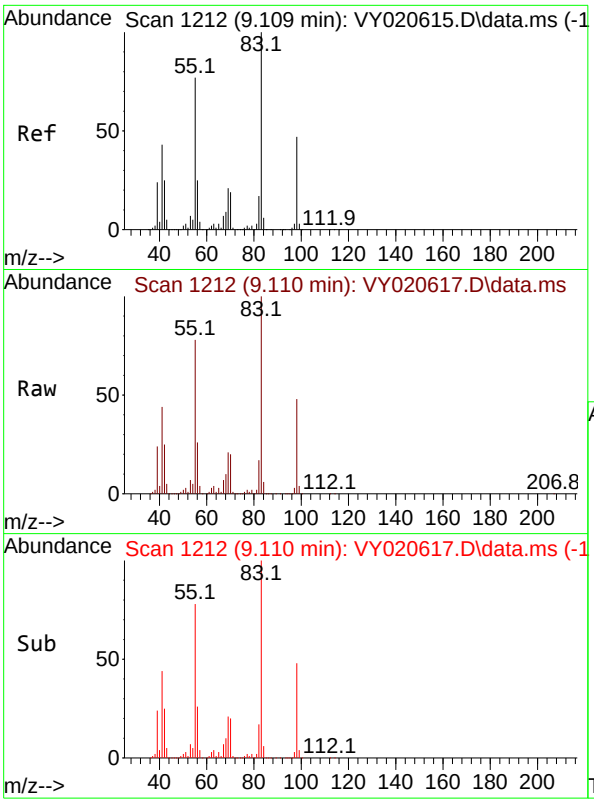




#38
Carbon Tetrachloride
Concen: 138.477 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:117 Resp: 548361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.5 | 78.3 | 117.5 |
| 121 | 30.0 | 25.1 | 37.7 |



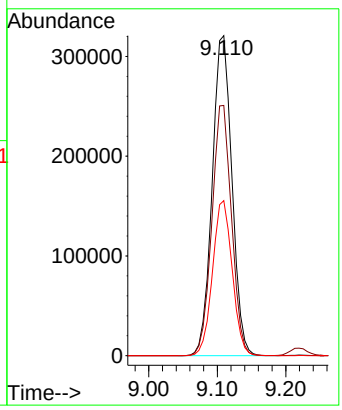


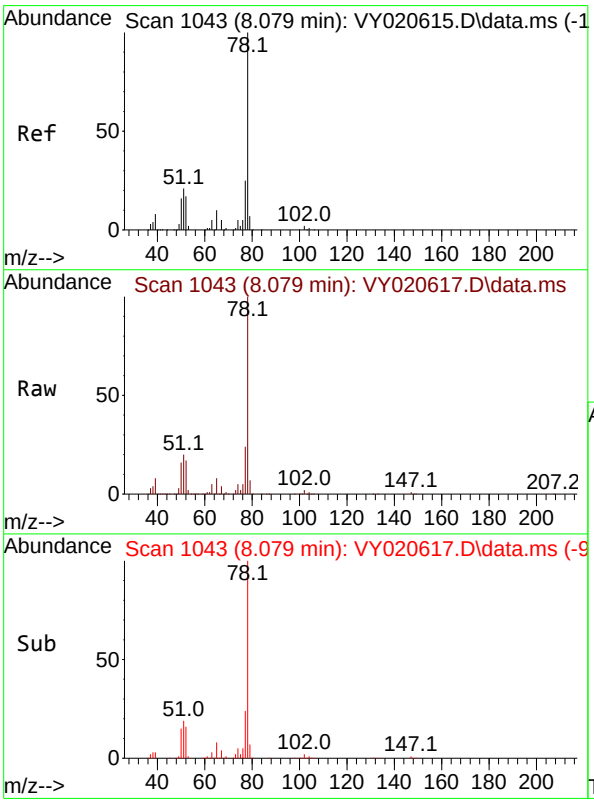

#39
Methylcyclohexane
Concen: 137.259 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 640301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 78.2 | 61.4 | 92.0 |
| 98 | 48.5 | 37.3 | 55.9 |

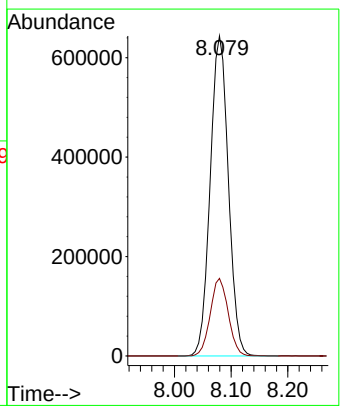


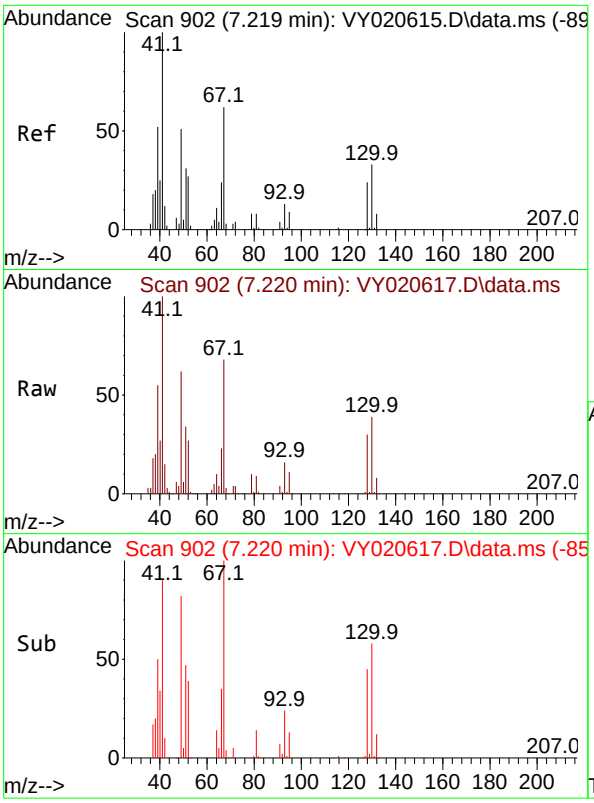




#40
Benzene
Concen: 136.402 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 78 Resp: 1431012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 20.1 | 30.1 |



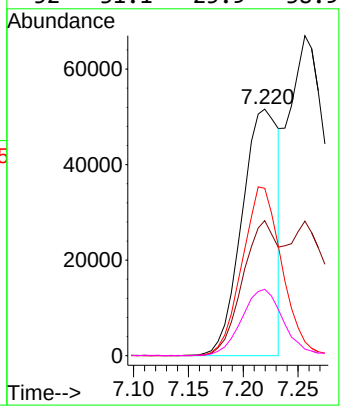


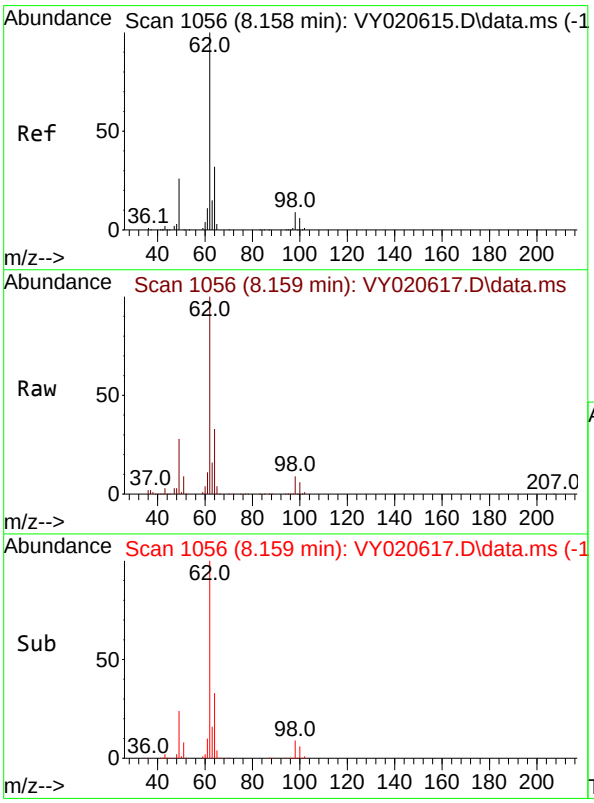

#41
Methacrylonitrile
Concen: 133.813 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 41 Resp: 119101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 59.0 | 53.6 | 80.4 |
| 67 | 75.3 | 62.0 | 93.0 |
| 52 | 31.1 | 25.9 | 38.9 |

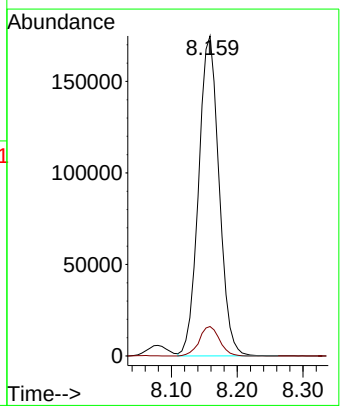


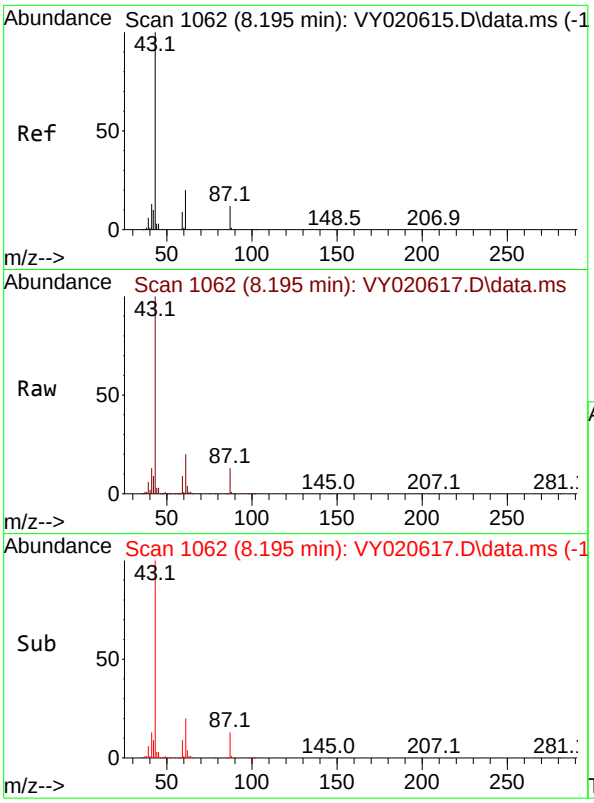




#42
1,2-Dichloroethane
Concen: 135.647 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 62 Resp: 377438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.2 | 0.0 | 18.0 |



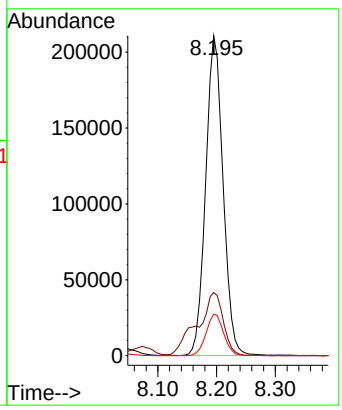


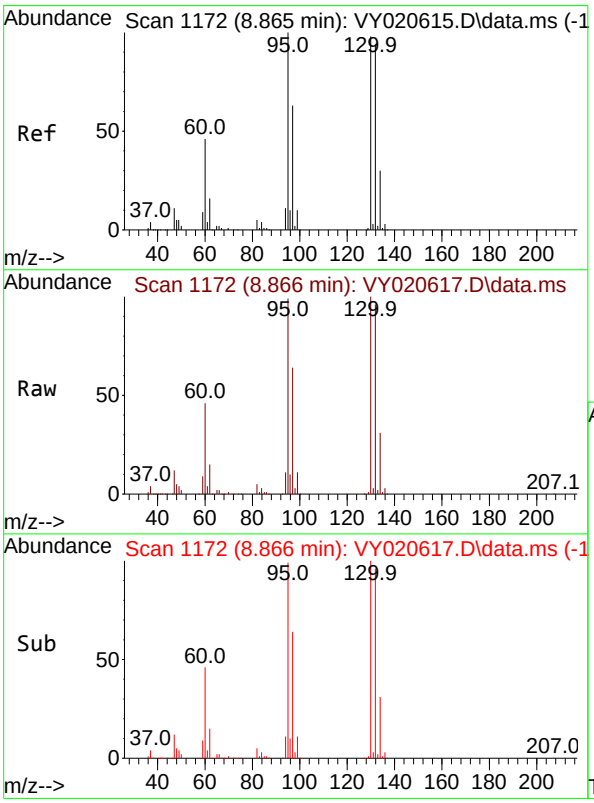

#43
Isopropyl Acetate
Concen: 135.916 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 433206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 29.6 | 23.8 | 35.6 |
| 87 | 13.2 | 10.2 | 15.4 |

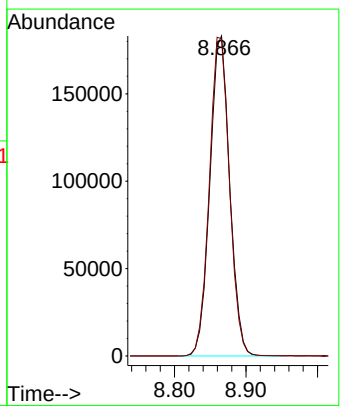


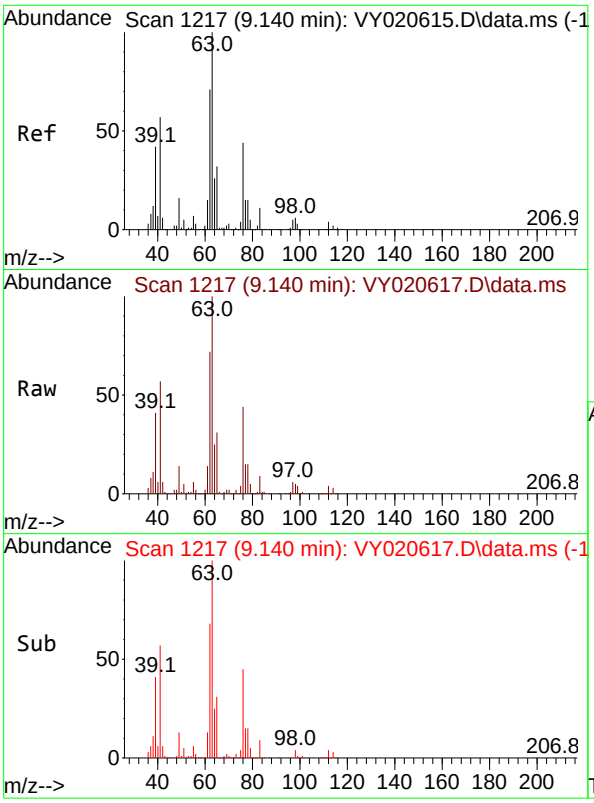




#44
Trichloroethene
Concen: 136.648 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:130 Resp: 352263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.1 | 0.0 | 203.2 |



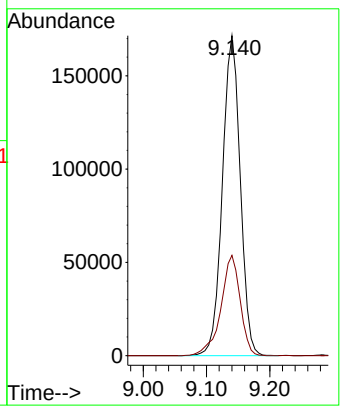


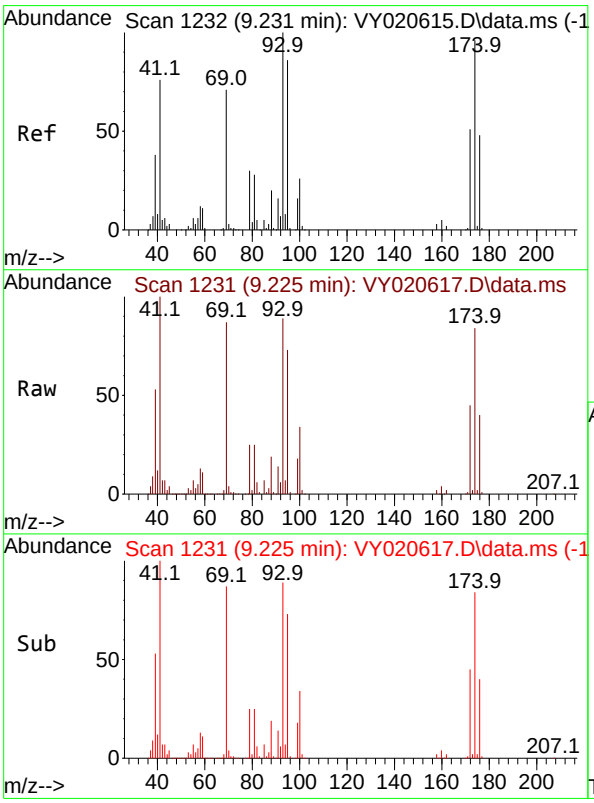

#45
1,2-Dichloropropane
Concen: 136.766 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 63 Resp: 335340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 25.9 | 38.9 |

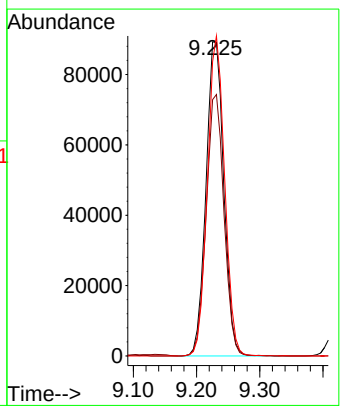


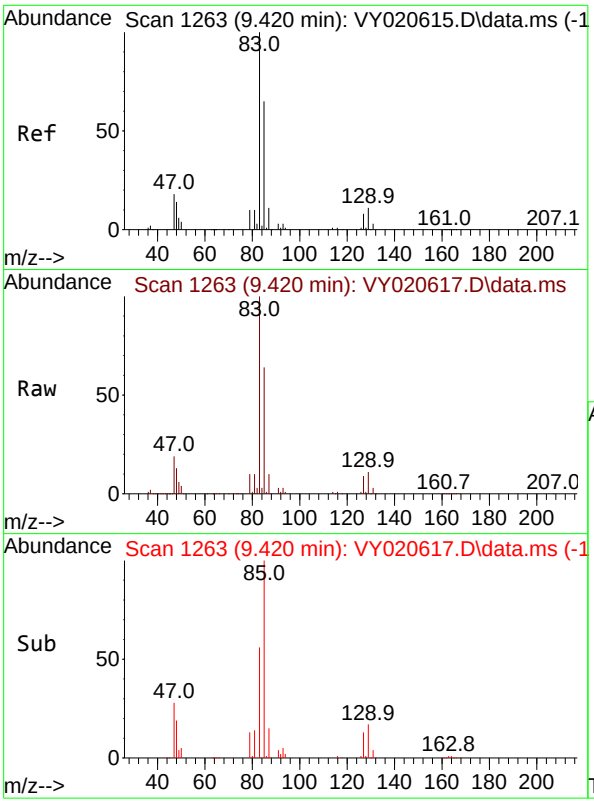




#46
Dibromomethane
Concen: 134.905 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 93 Resp: 174812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.1 | 66.7 | 100.1 |
| 174 | 98.5 | 77.8 | 116.6 |



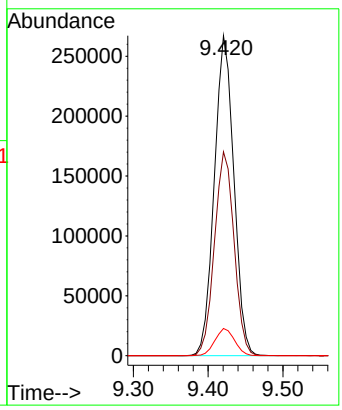


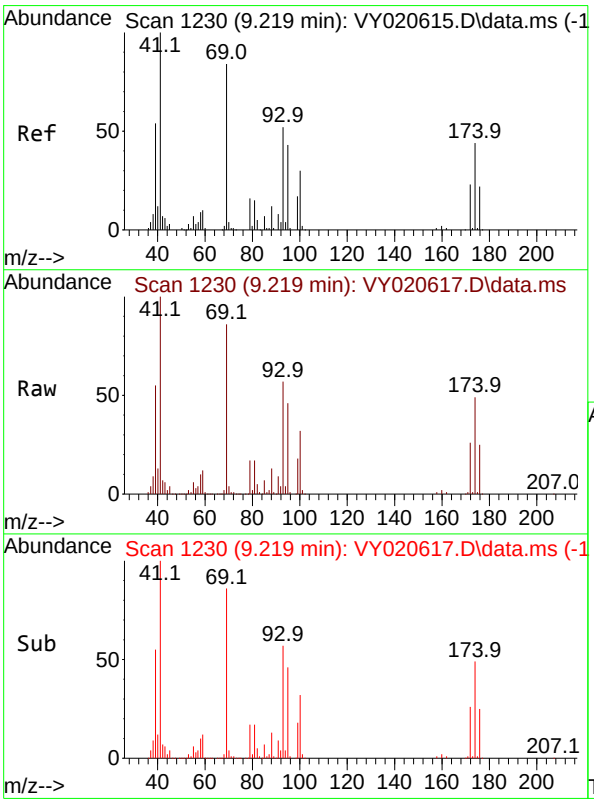

#47
Bromodichloromethane
Concen: 138.787 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 485795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.7 | 52.1 | 78.1 |
| 127 | 8.5 | 6.7 | 10.1 |

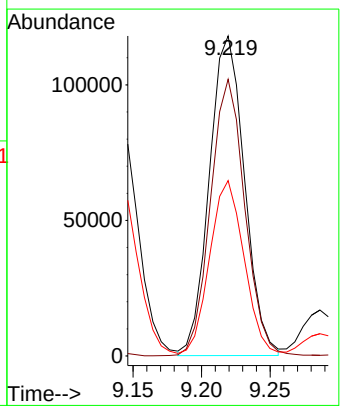


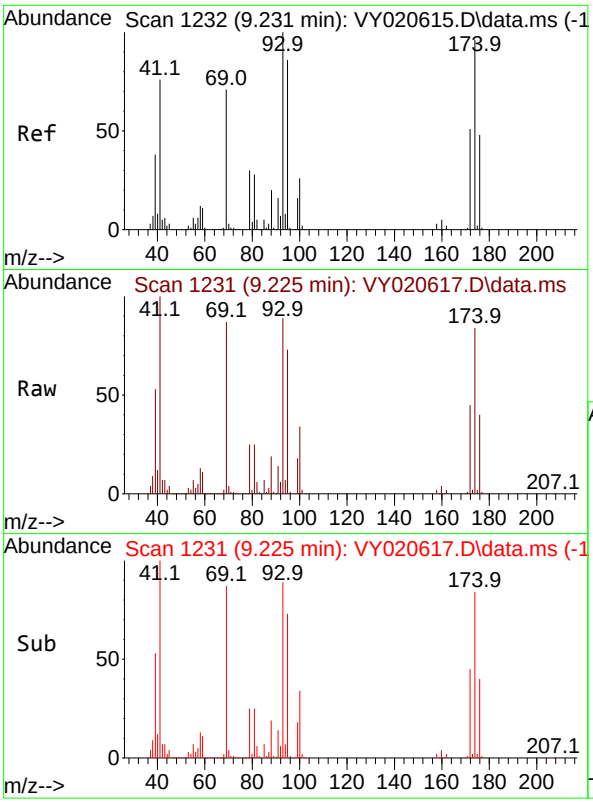




#48
Methyl methacrylate
Concen: 138.957 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 41 Resp: 210550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 85.2 | 67.2 | 100.8 |
| 39 | 52.7 | 42.2 | 63.4 |



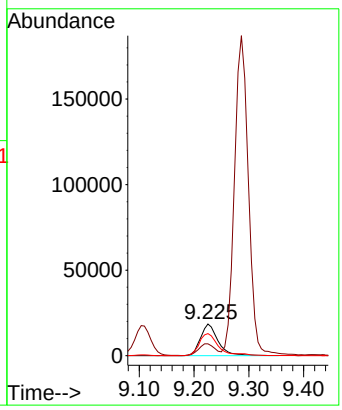


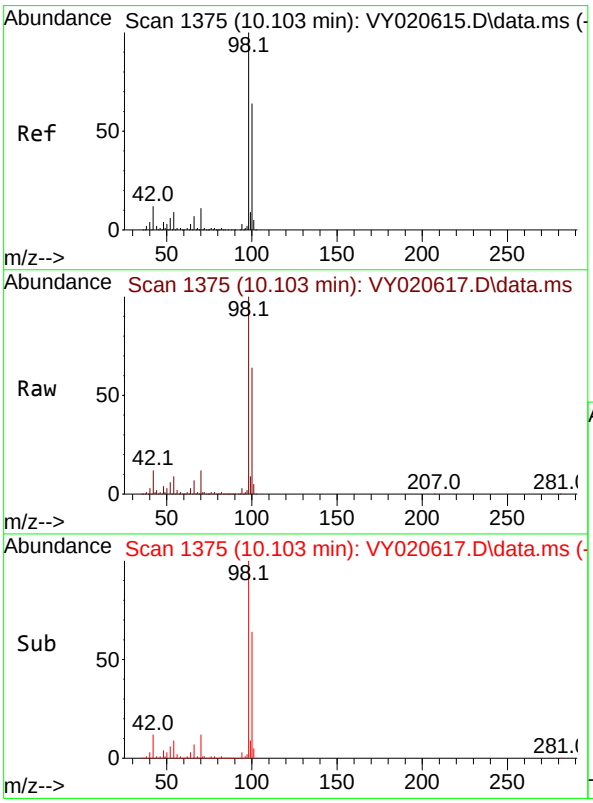

#49
1,4-Dioxane
Concen: 2773.834 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 88 Resp: 41221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.1 | 27.6 | 41.4 |
| 58 | 77.1 | 61.7 | 92.5 |

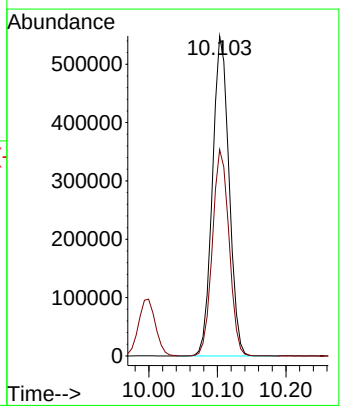


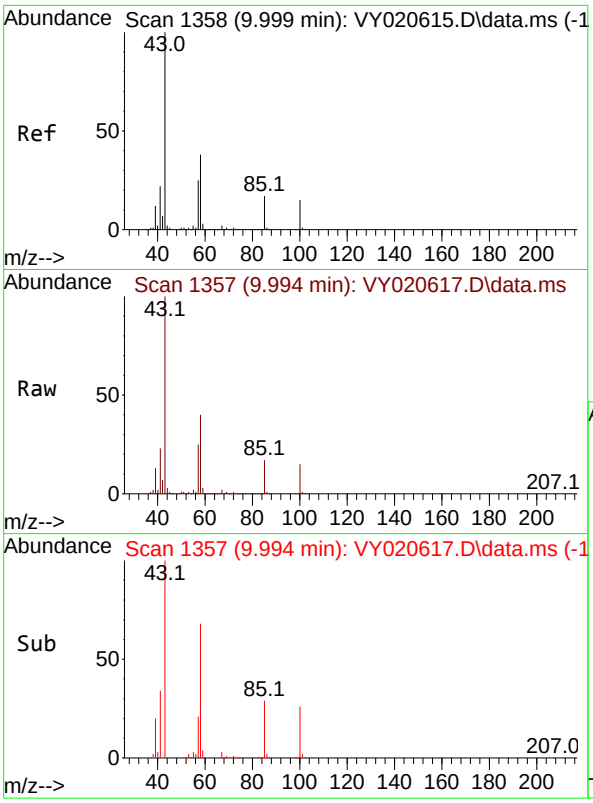




#50
Toluene-d8
Concen: 133.785 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 98 Resp: 919148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.1 | 78.1 |



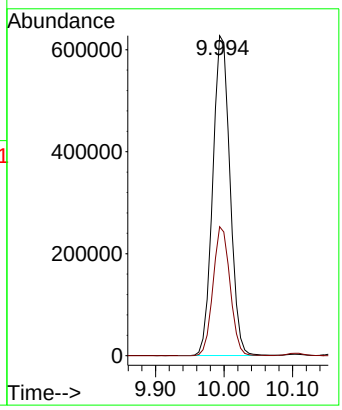


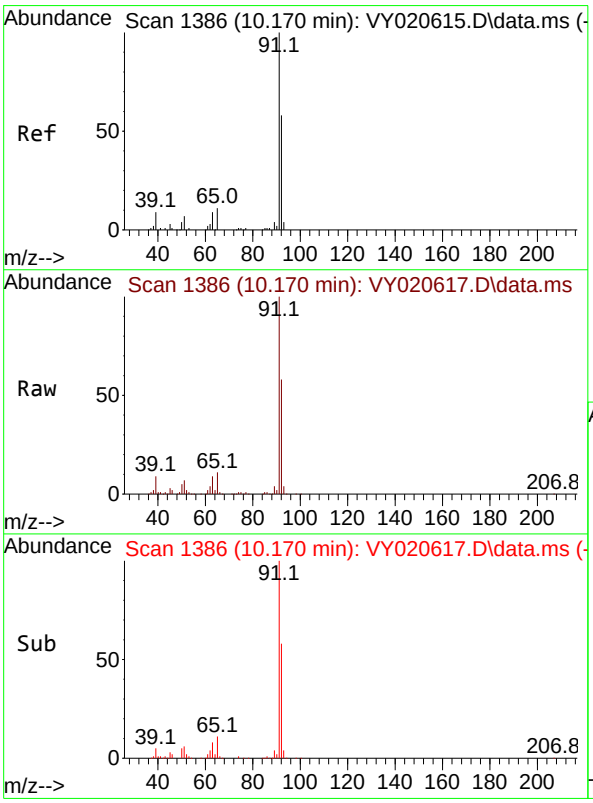

#51
4-Methyl-2-Pentanone
Concen: 649.161 ug/l
RT: 9.994 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 1092140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.9 | 31.4 | 47.2 |

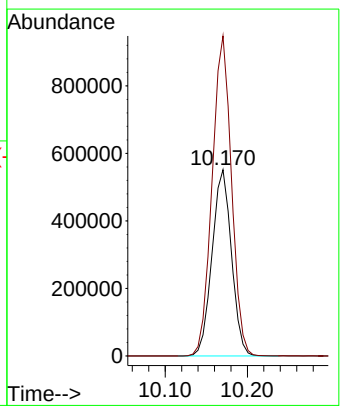


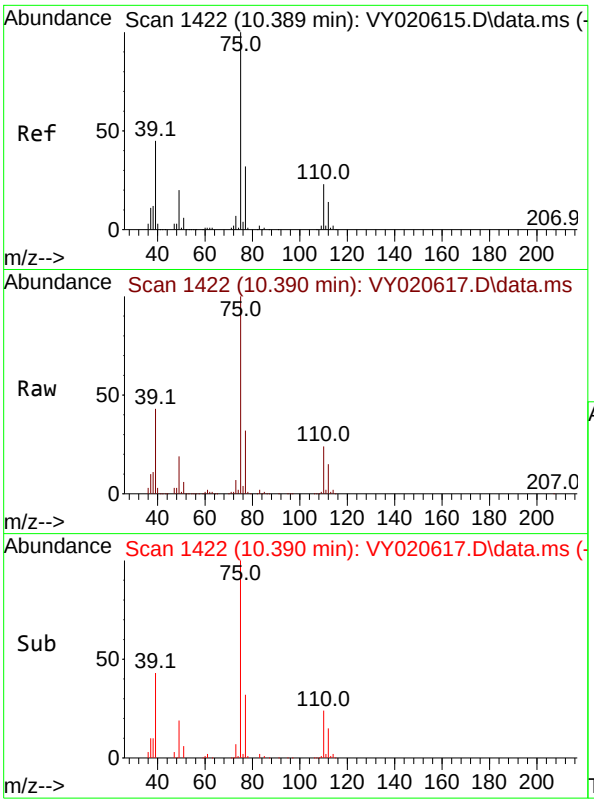




#52
Toluene
Concen: 138.659 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 92 Resp: 904033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 137.4 | 206.0 |



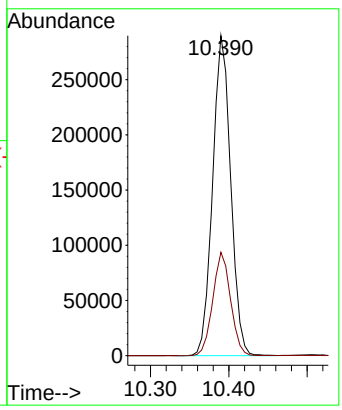


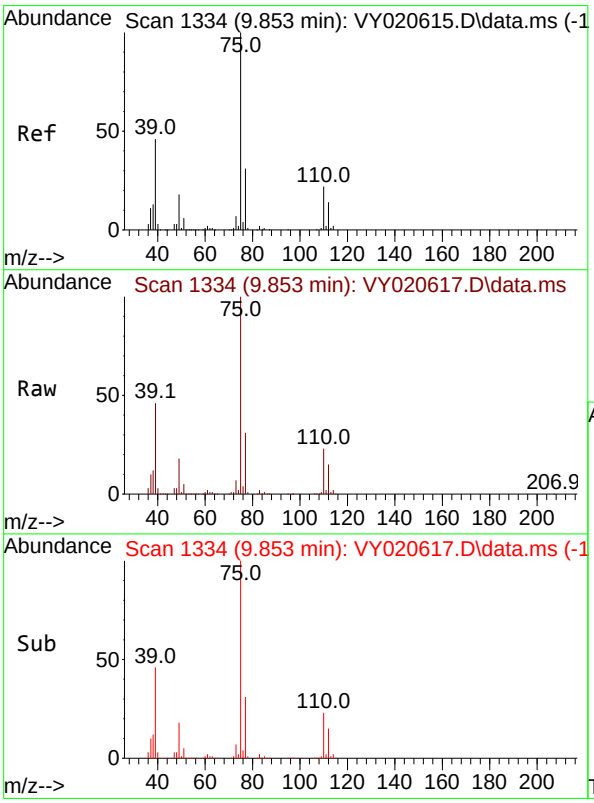

#53
t-1,3-Dichloropropene
Concen: 142.541 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 75 Resp: 464905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 25.4 | 38.2 |

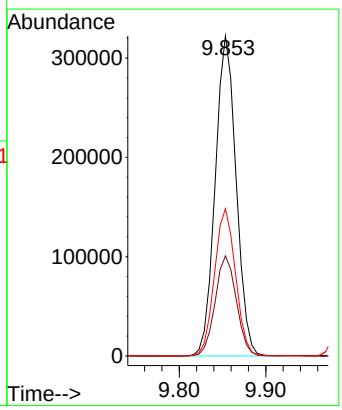


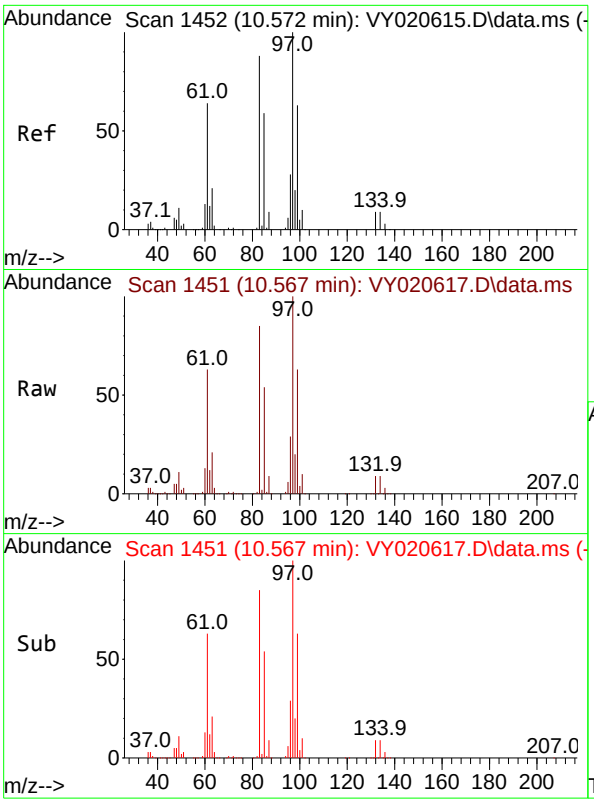




#54
cis-1,3-Dichloropropene
Concen: 139.760 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 75 Resp: 540157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 24.6 | 36.8 |
| 39 | 46.0 | 36.4 | 54.6 |



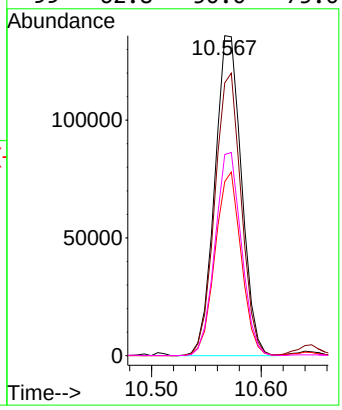


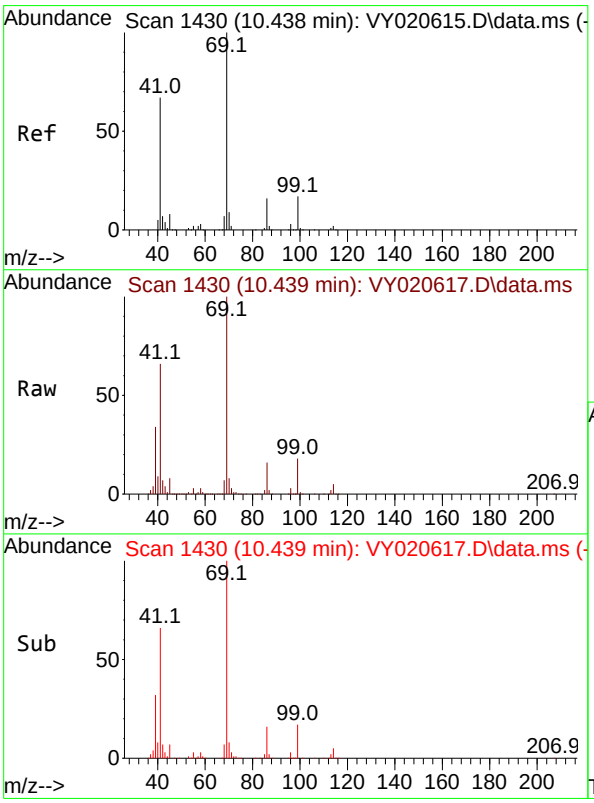

#55
1,1,2-Trichloroethane
Concen: 134.466 ug/l
RT: 10.567 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 97 Resp: 230372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.3 | 70.4 | 105.6 |
| 85 | 54.4 | 47.2 | 70.8 |
| 99 | 62.8 | 50.0 | 75.0 |

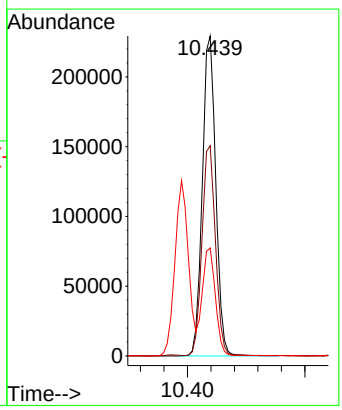


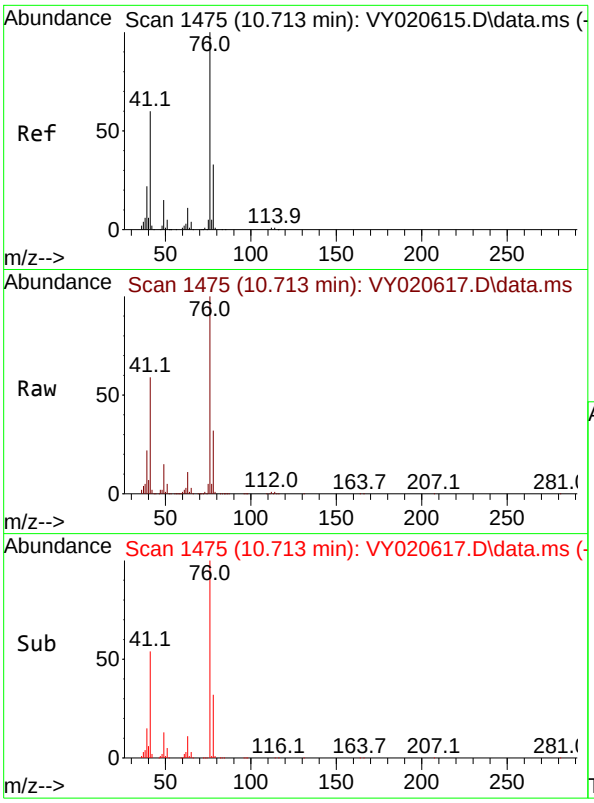




#56
Ethyl methacrylate
Concen: 146.095 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 69 Resp: 363115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.9 | 54.0 | 81.0 |
| 39 | 33.3 | 27.9 | 41.9 |



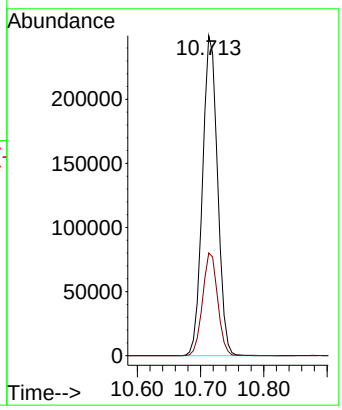


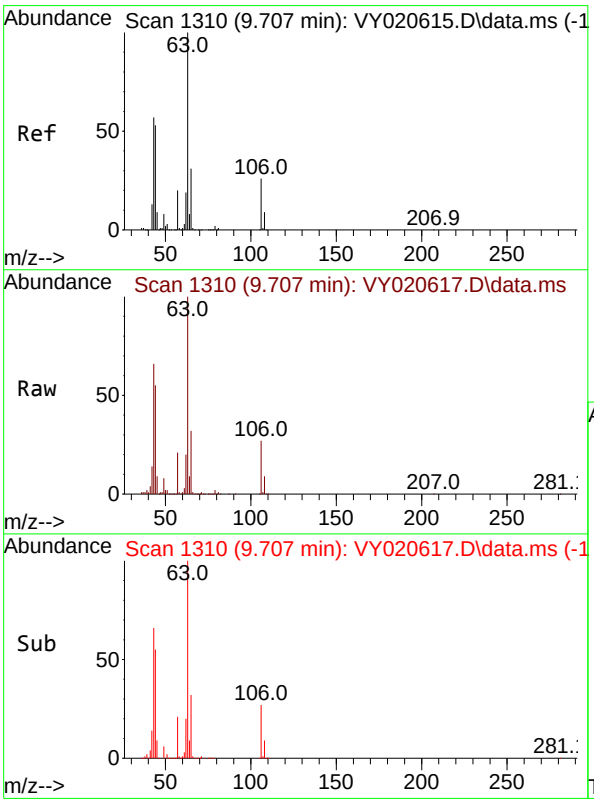

#57
1,3-Dichloropropane
Concen: 135.406 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 76 Resp: 413542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 25.8 | 38.8 |

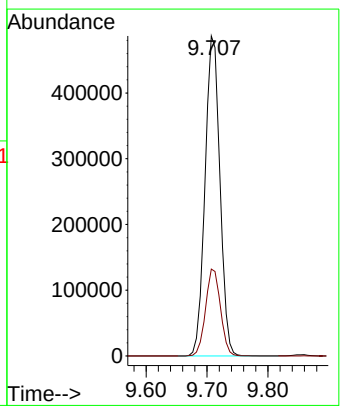


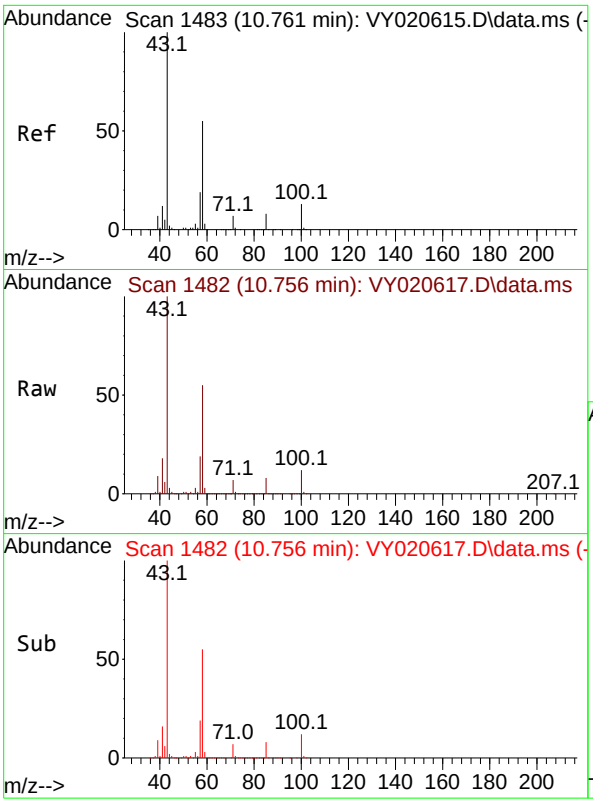




#58
2-Chloroethyl Vinyl ether
Concen: 790.569 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 63 Resp: 826777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.2 | 21.5 | 32.3 |



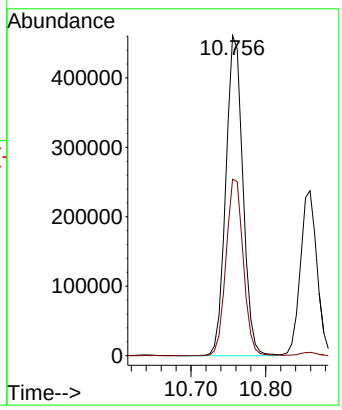


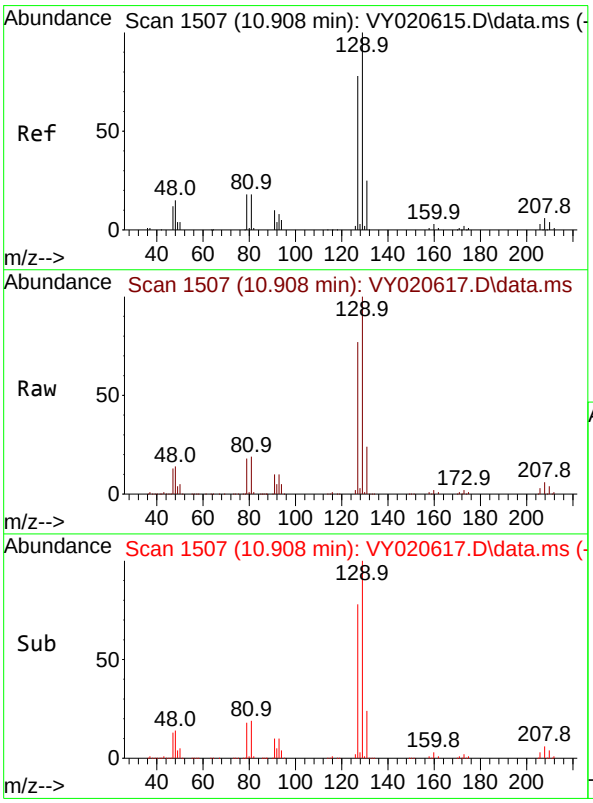

#59
2-Hexanone
Concen: 677.527 ug/l
RT: 10.756 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 731842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.9 | 27.2 | 81.6 |

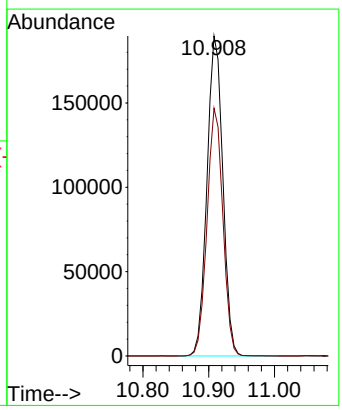


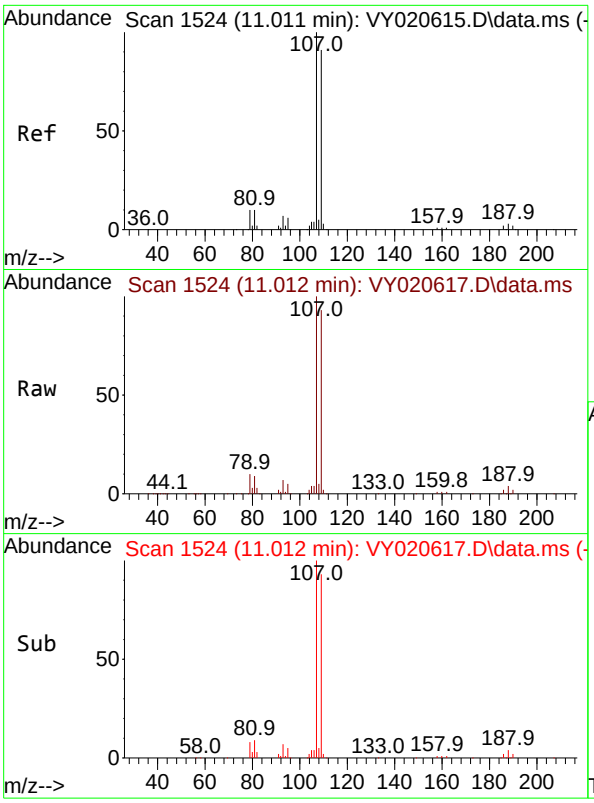




#60
Dibromochloromethane
Concen: 138.906 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:129 Resp: 318266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.1 | 114.3 |



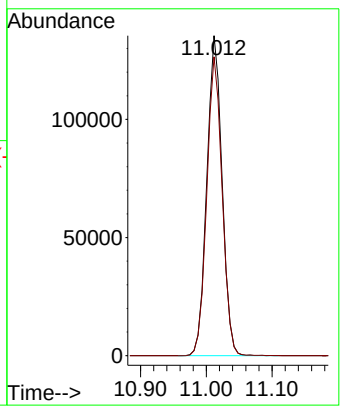


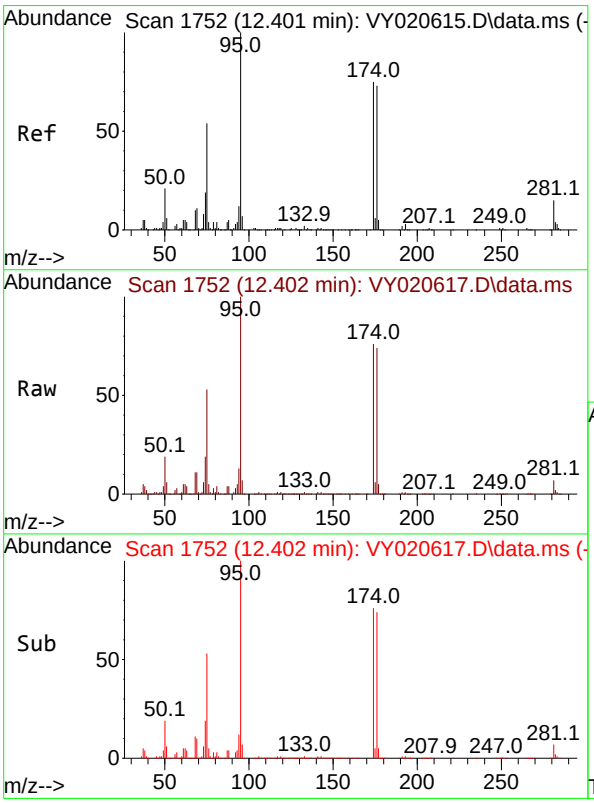

#61
1,2-Dibromoethane
Concen: 137.043 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:107 Resp: 218394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.2 | 75.4 | 113.2 |

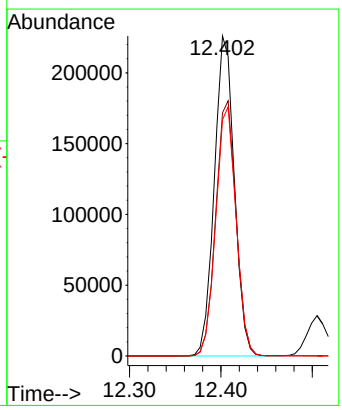


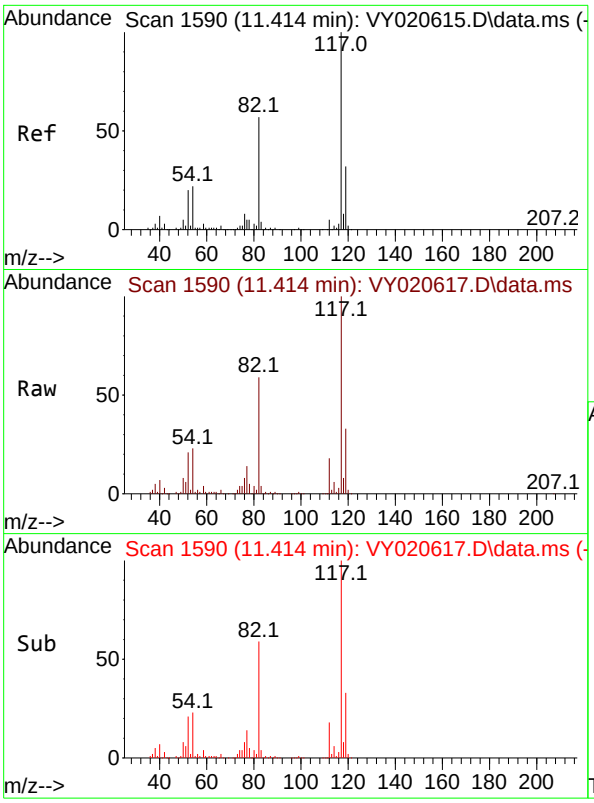




#62
4-Bromofluorobenzene
Concen: 127.965 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 95 Resp: 343903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.8 | 0.0 | 161.8 |
| 176 | 78.9 | 0.0 | 156.6 |



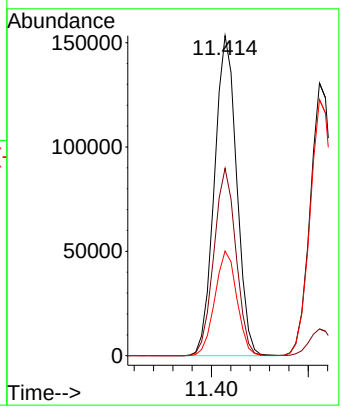


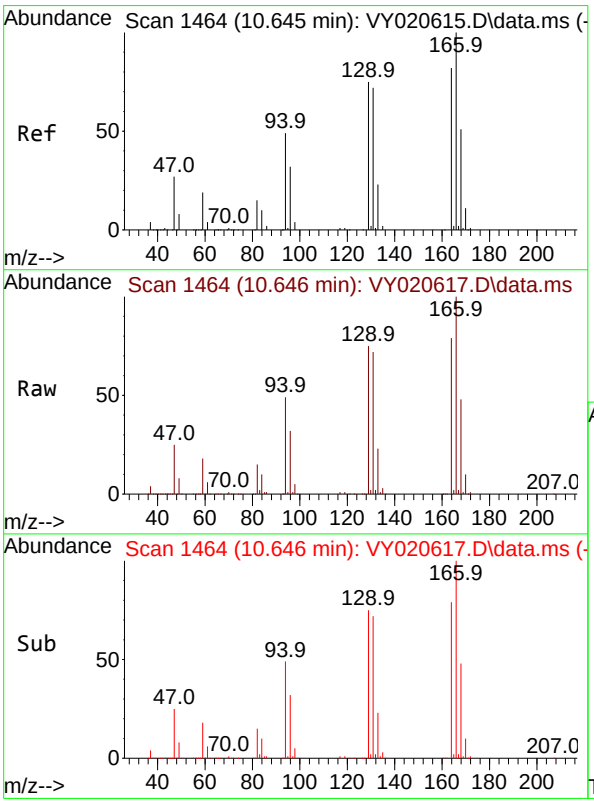

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:117 Resp: 244385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.6 | 45.8 | 68.6 |
| 119 | 32.7 | 25.3 | 37.9 |

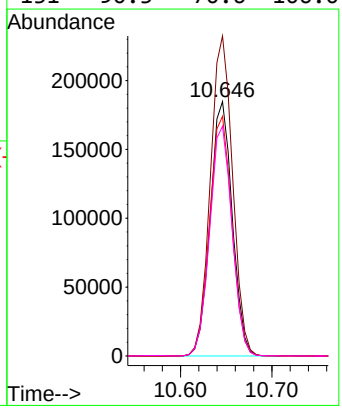


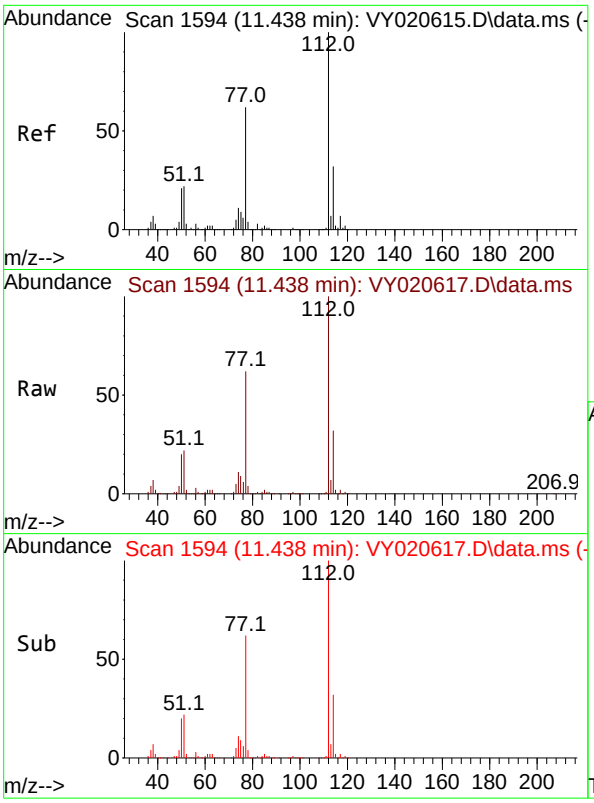




#64
Tetrachloroethene
Concen: 134.678 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:164 Resp: 309587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.8 | 97.9 | 146.9 |
| 129 | 94.2 | 73.4 | 110.0 |
| 131 | 90.3 | 70.6 | 106.0 |



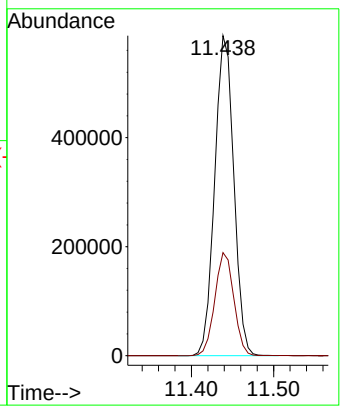


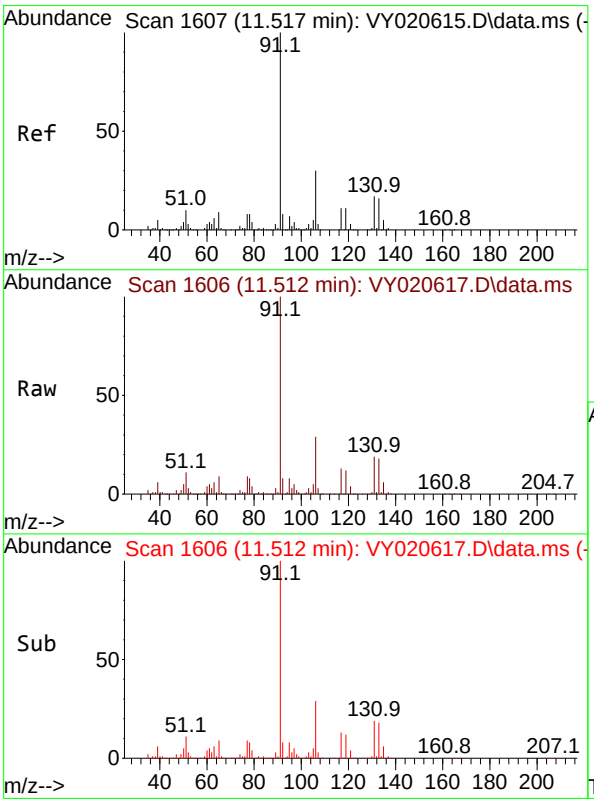

#65
Chlorobenzene
Concen: 138.742 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:112 Resp: 948051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 26.0 | 39.0 |

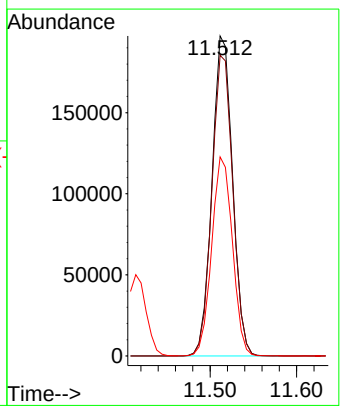


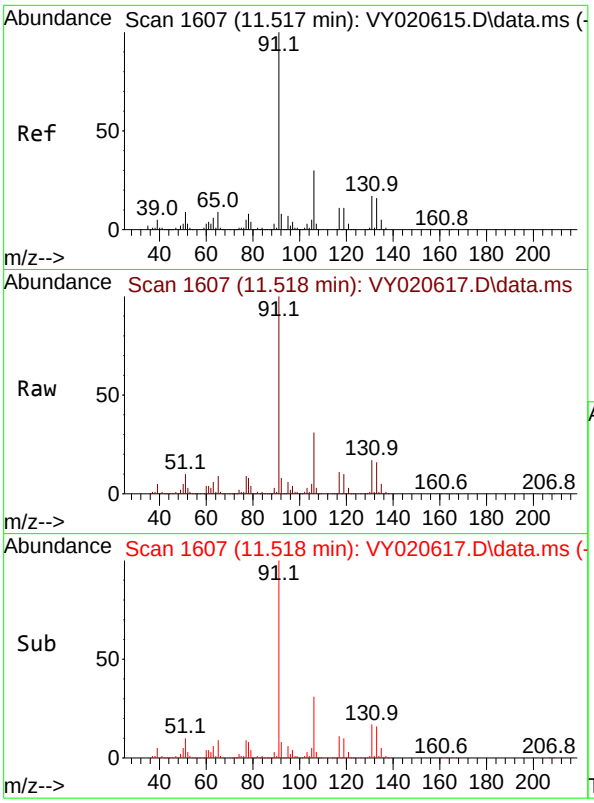




#66
1,1,1,2-Tetrachloroethane
Concen: 138.995 ug/l
RT: 11.512 min Scan# 1606
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:131 Resp: 324778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 46.8 | 140.3 |
| 119 | 62.8 | 31.8 | 95.3 |



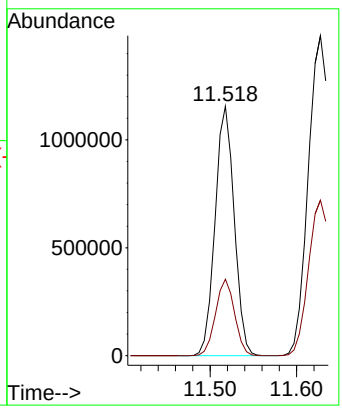


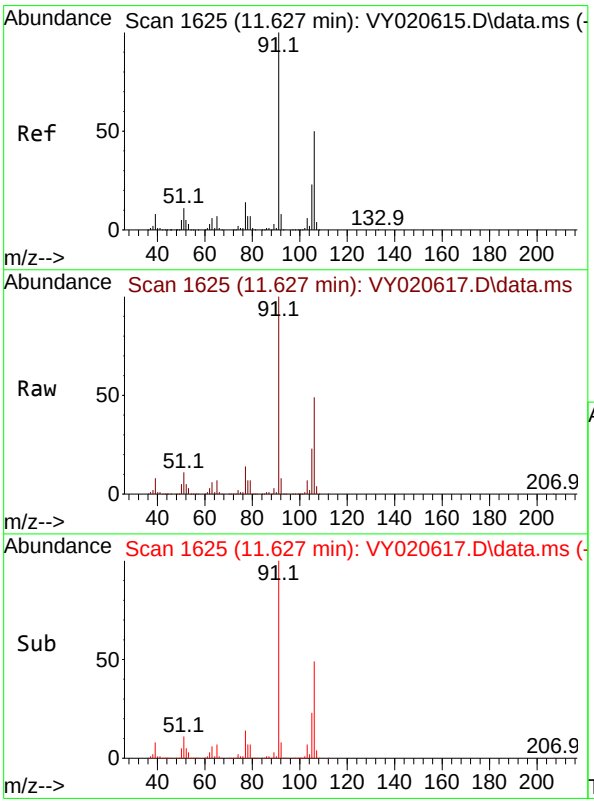

#67
Ethyl Benzene
Concen: 140.410 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 1770086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.7 | 23.9 | 35.9 |

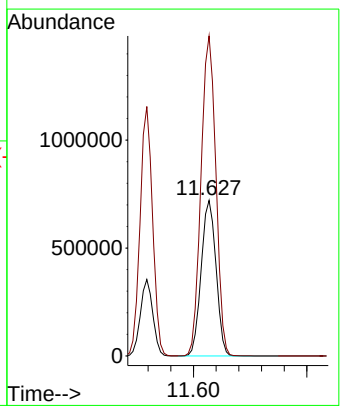


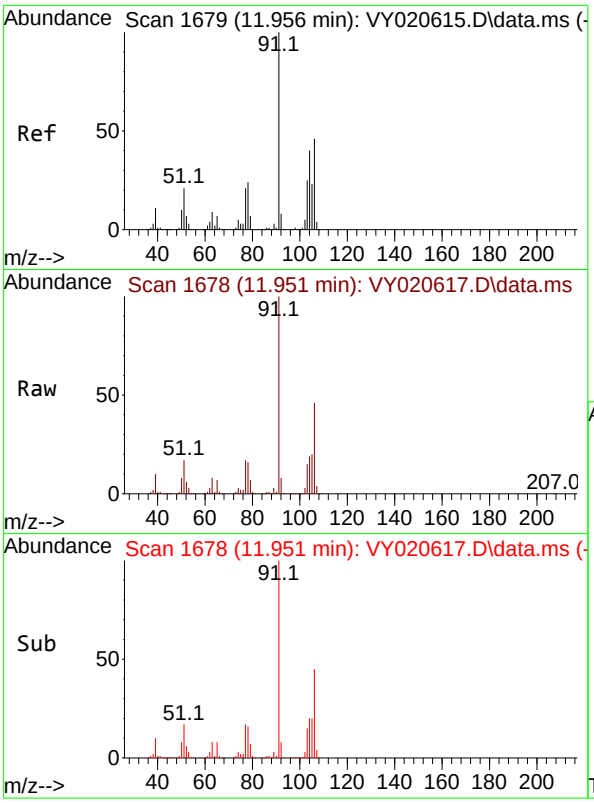




#68
m/p-Xylenes
Concen: 279.114 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:106 Resp: 1308282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.1 | 165.0 | 247.4 |



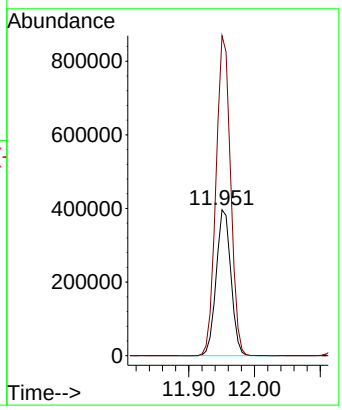


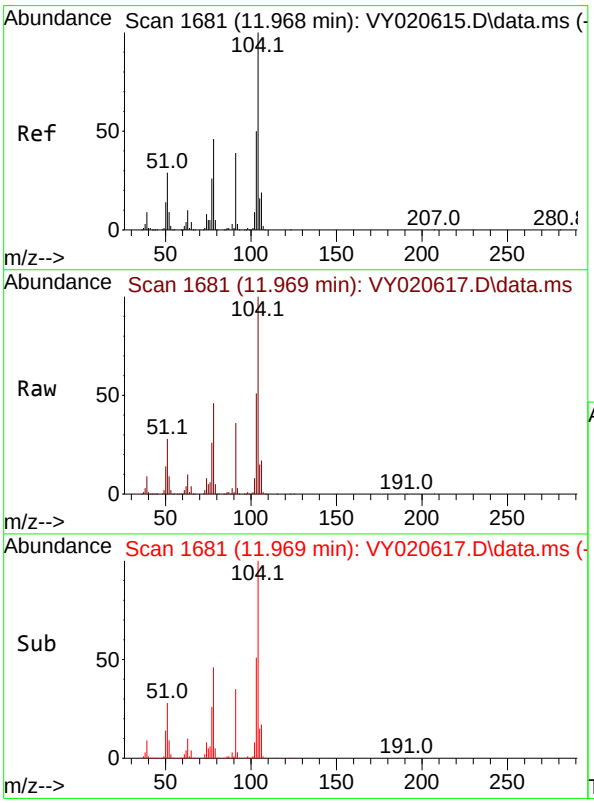

#69
o-Xylene
Concen: 141.099 ug/l
RT: 11.951 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:106 Resp: 617079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.7 | 108.4 | 325.2 |

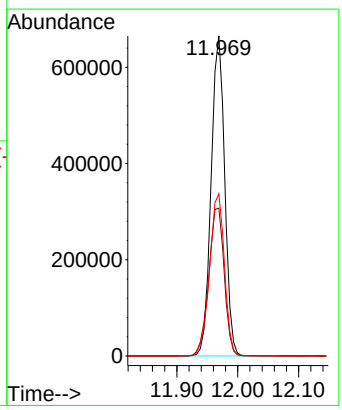


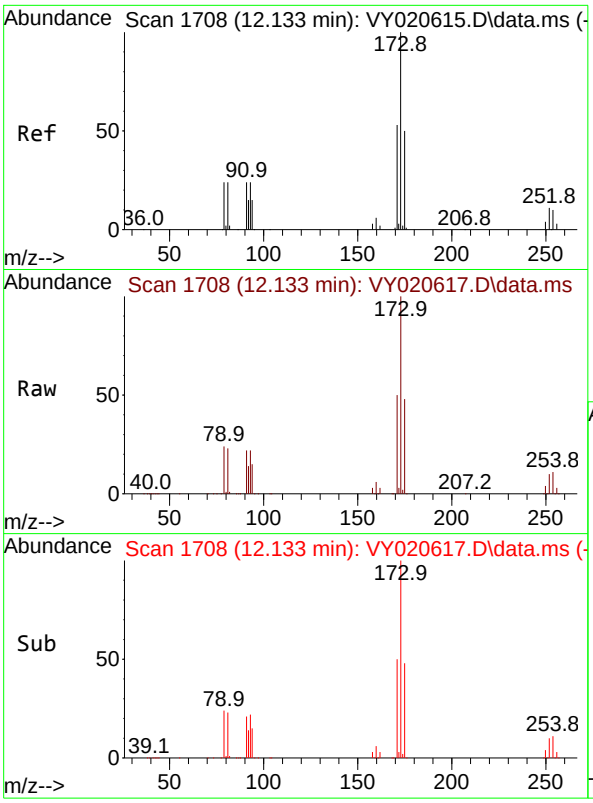




#70
Styrene
Concen: 141.122 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:104 Resp: 1031166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.6 | 41.6 | 62.4 |
| 103 | 55.3 | 43.7 | 65.5 |



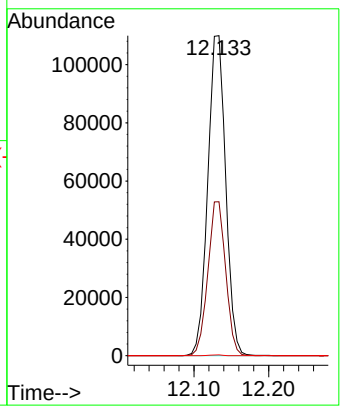


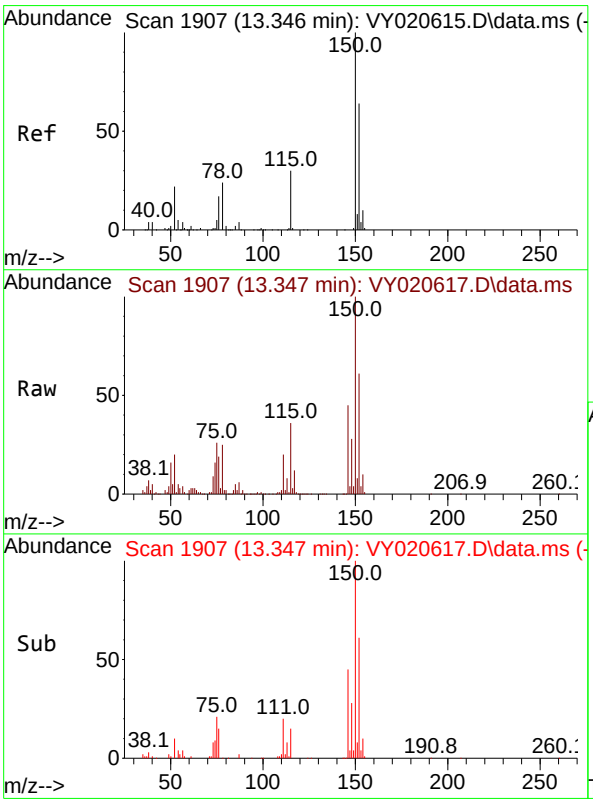

#71
Bromoform
Concen: 139.463 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:173 Resp: 183216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 24.6 | 74.0 |
| 254 | 0.2 | 0.0 | 0.0# |

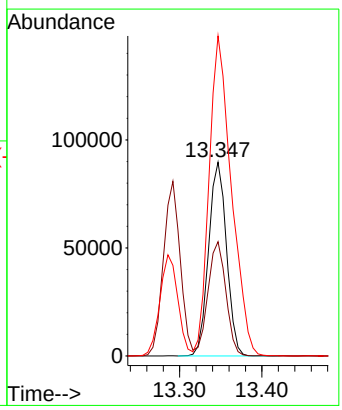


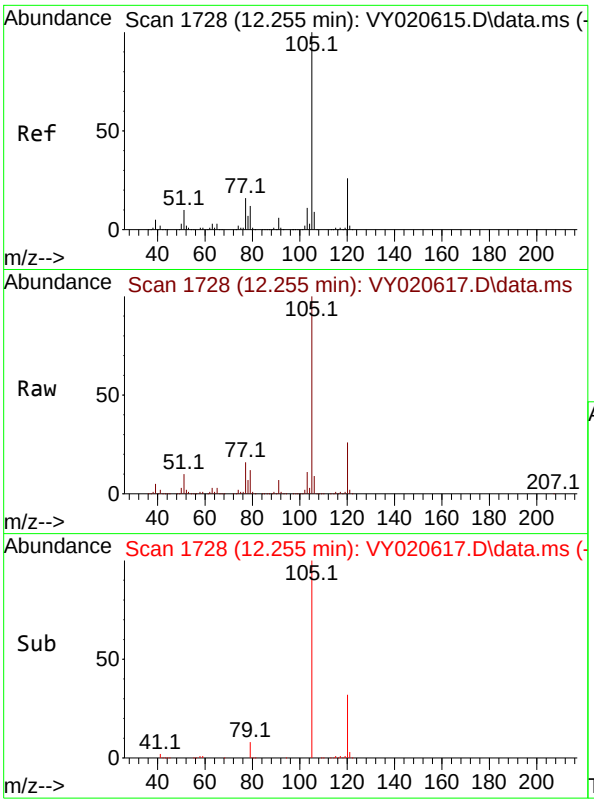




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:152 Resp: 135852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.2 | 30.2 | 90.6 |
| 150 | 205.6 | 0.0 | 355.4 |



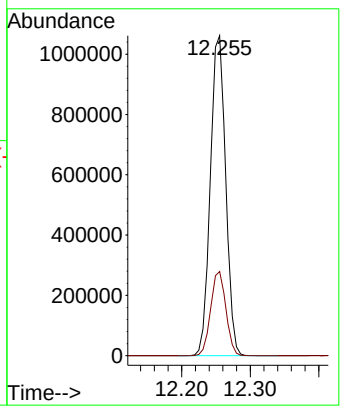


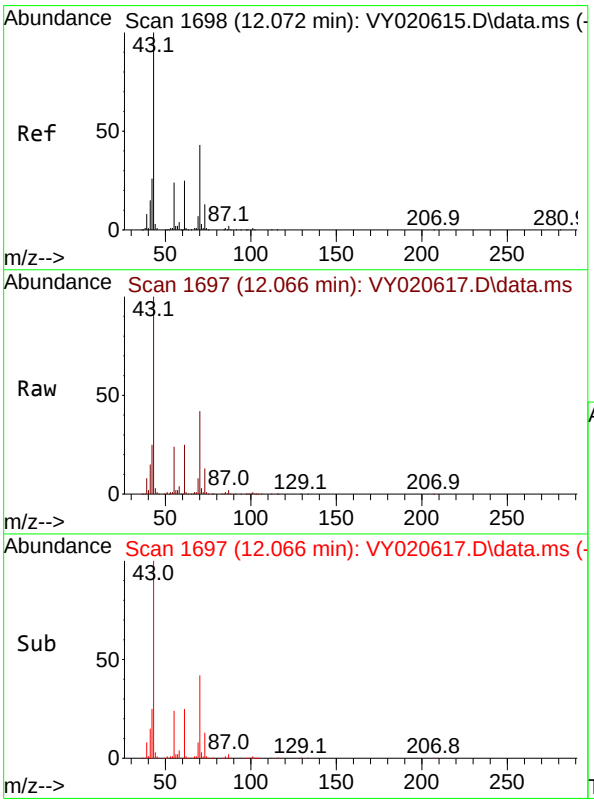

#73
Isopropylbenzene
Concen: 139.276 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:105 Resp: 1651138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |

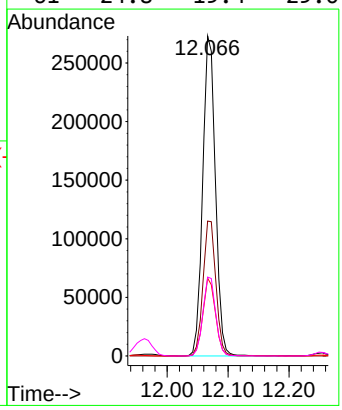


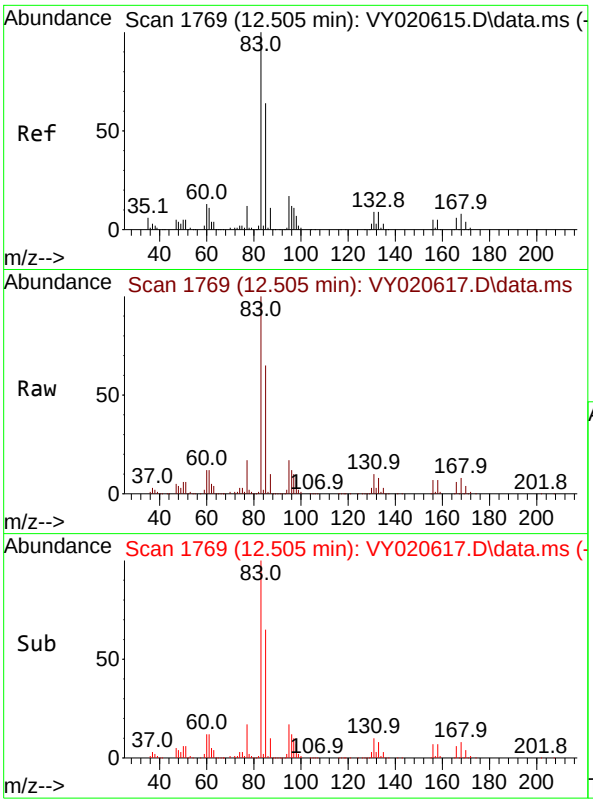




#74
N-amyl acetate
Concen: 142.807 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 43 Resp: 396216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.7 | 34.2 | 51.2 |
| 55 | 24.0 | 19.6 | 29.4 |
| 61 | 24.8 | 19.4 | 29.0 |



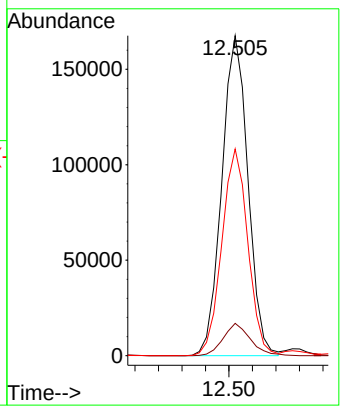


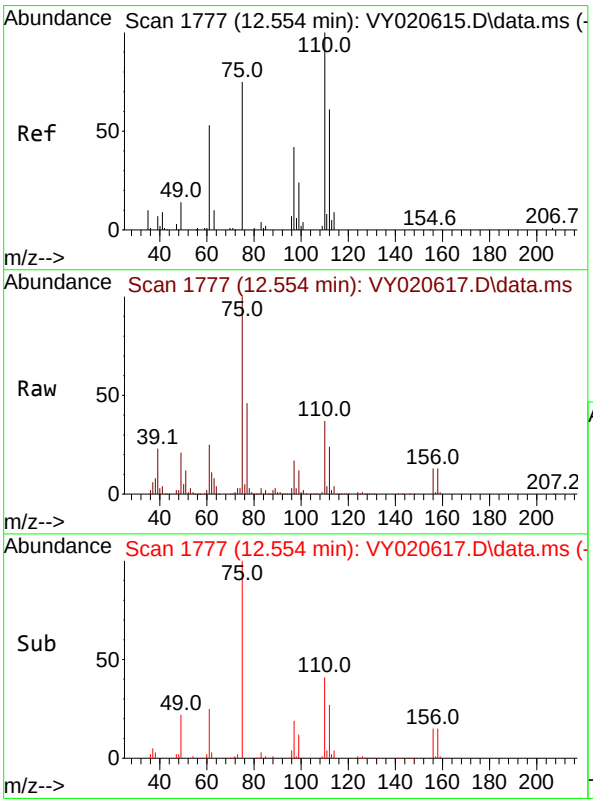

#75
1,1,2,2-Tetrachloroethane
Concen: 134.480 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 258787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.5 | 5.2 | 15.6 |
| 85 | 64.3 | 32.5 | 97.4 |

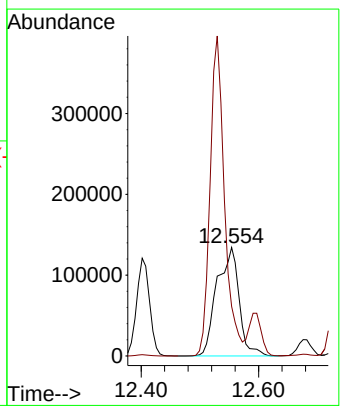


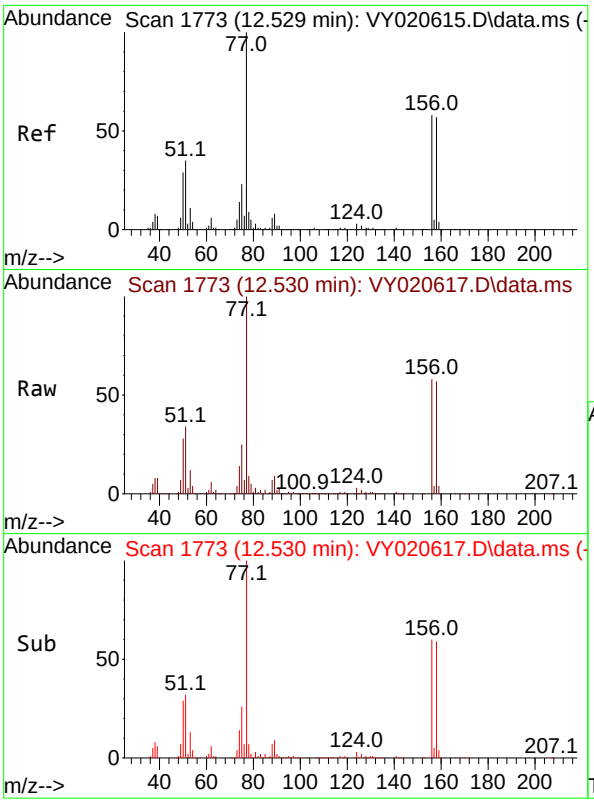




#76
1,2,3-Trichloropropane
Concen: 251.196 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 75 Resp: 351473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



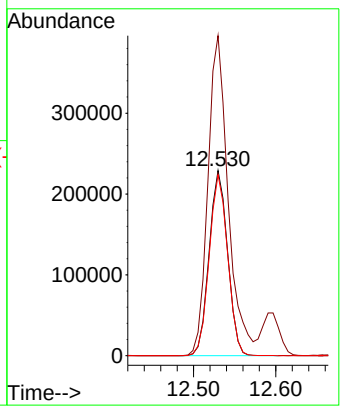


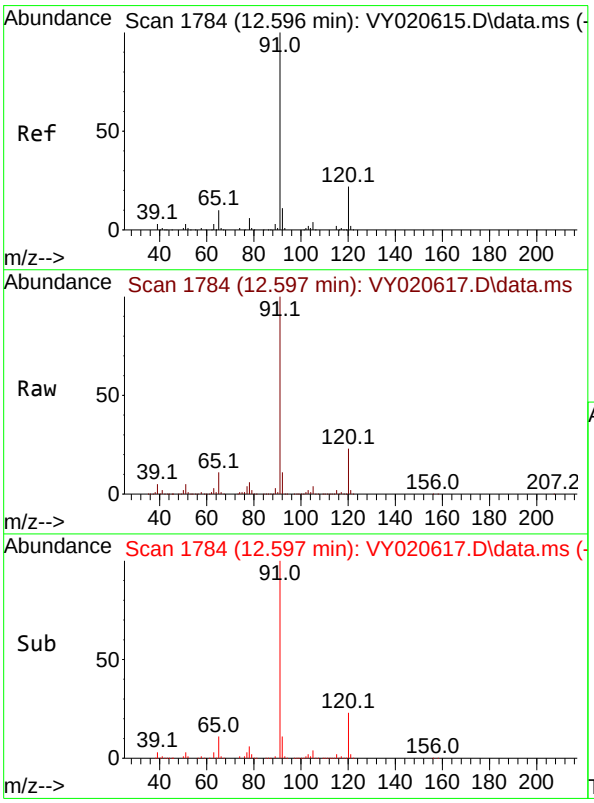

#77
Bromobenzene
Concen: 138.423 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:156 Resp: 357464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 189.2 | 94.2 | 282.4 |
| 158 | 97.4 | 48.9 | 146.6 |

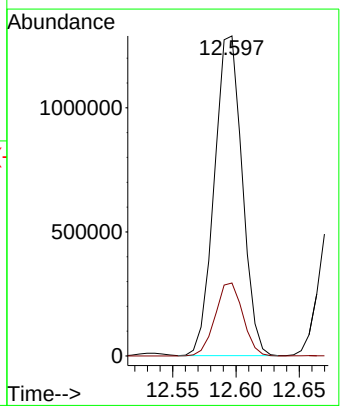


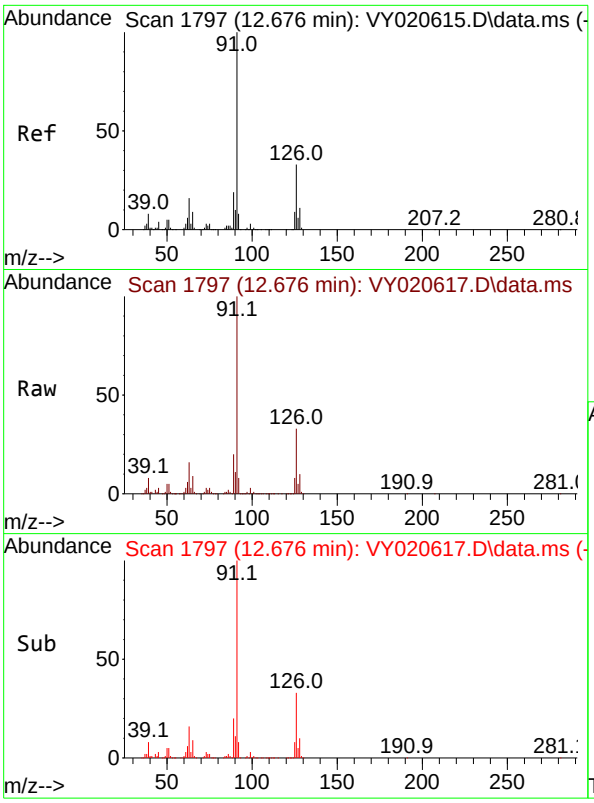




#78
n-propylbenzene
Concen: 138.026 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 91 Resp: 1971458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.1 | 33.1 |



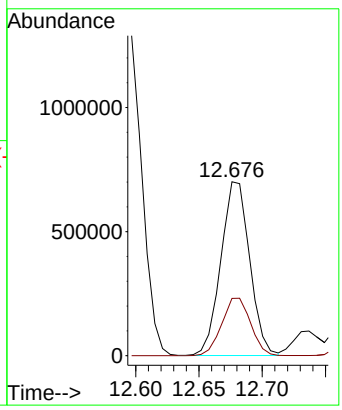


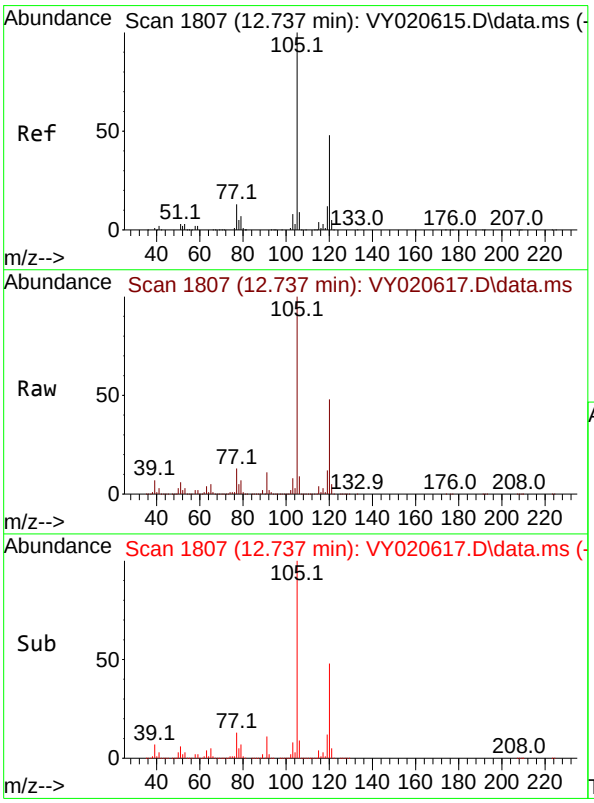

#79
2-Chlorotoluene
Concen: 138.298 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 1111362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.3 | 16.6 | 49.7 |

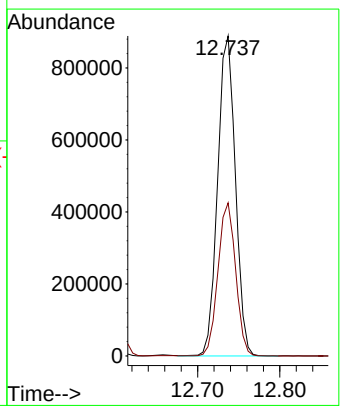


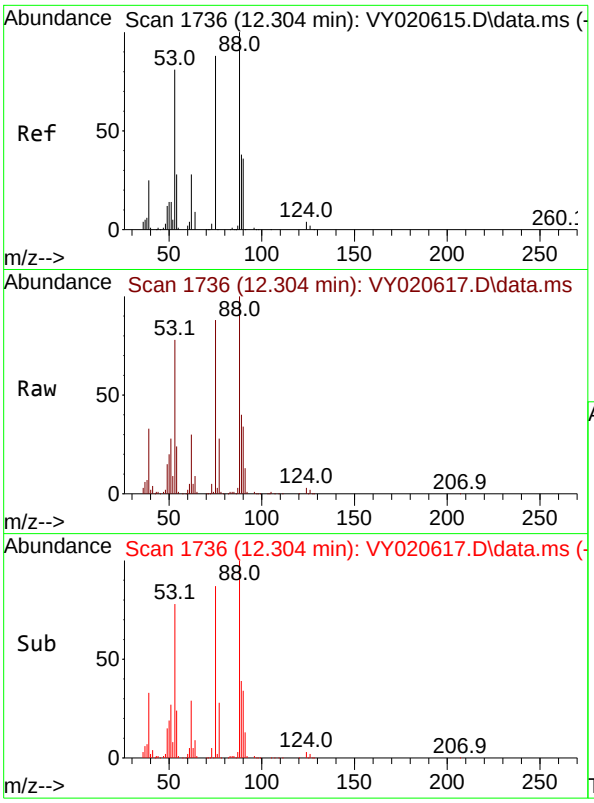




#80
1,3,5-Trimethylbenzene
Concen: 138.553 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:105 Resp: 1332805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |



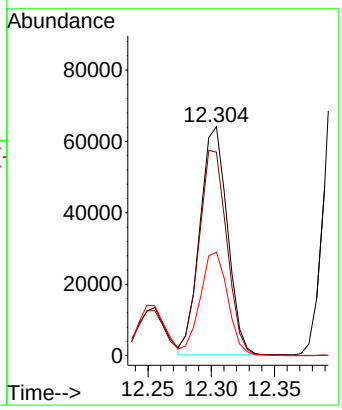


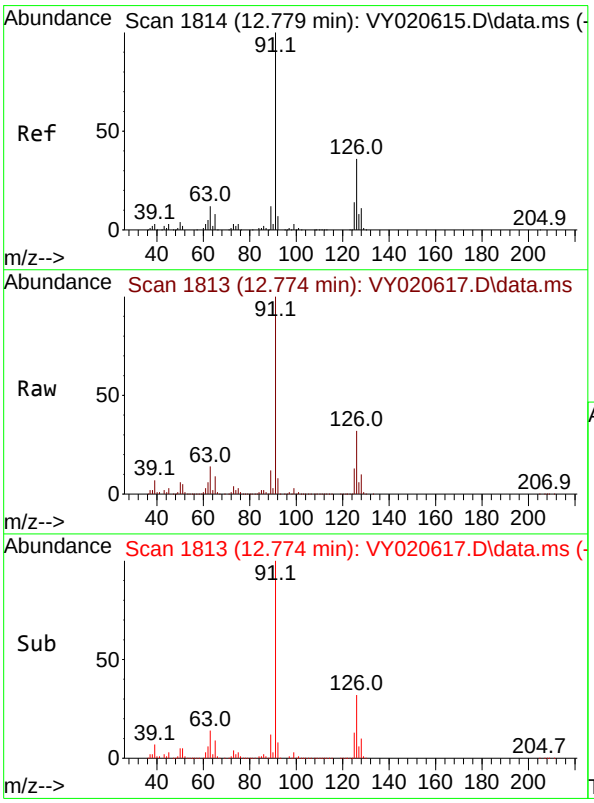

#81
trans-1,4-Dichloro-2-butene
Concen: 143.899 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 75 Resp: 96747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.7 | 75.4 | 113.2 |
| 89 | 46.1 | 37.0 | 55.4 |

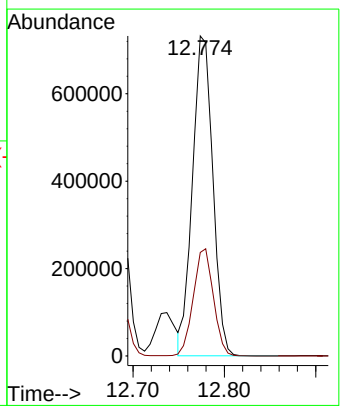


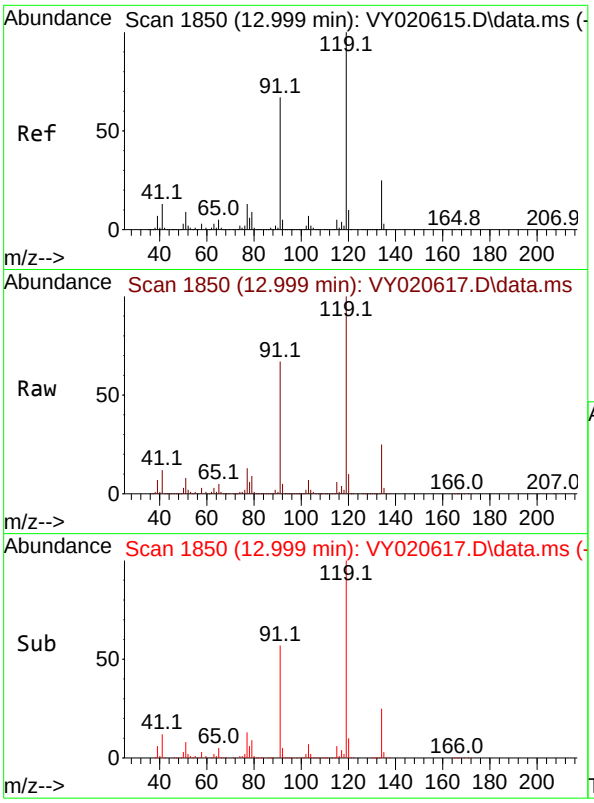




#82
4-Chlorotoluene
Concen: 136.190 ug/l
RT: 12.774 min Scan# 1813
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 91 Resp: 1135416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.1 | 16.6 | 49.7 |



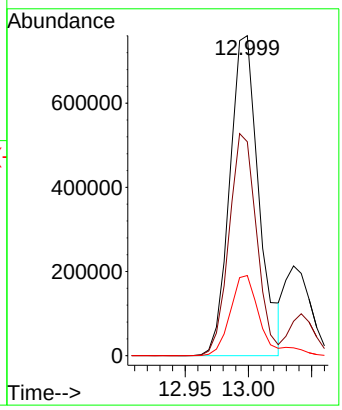


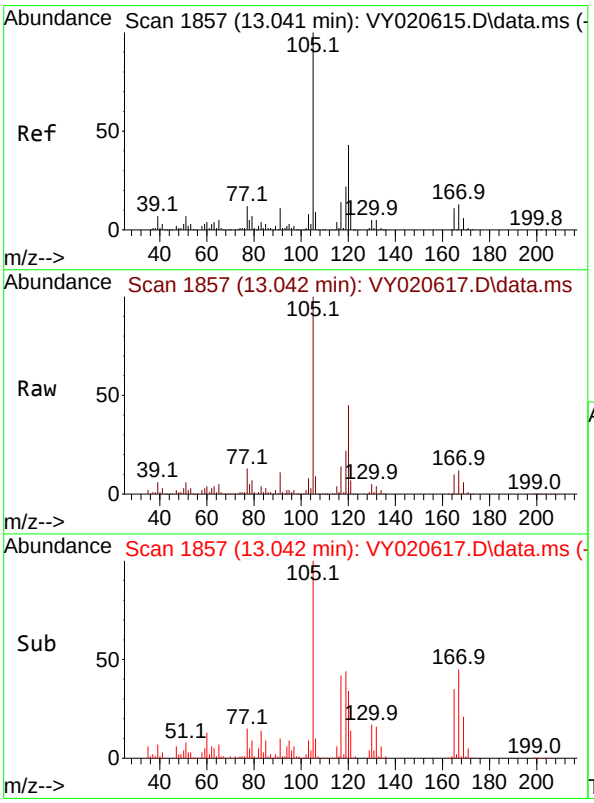

#83
tert-Butylbenzene
Concen: 139.985 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:119 Resp: 1219521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.8 | 32.9 | 98.6 |
| 134 | 26.0 | 13.1 | 39.1 |

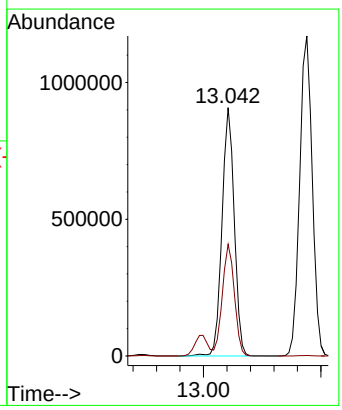


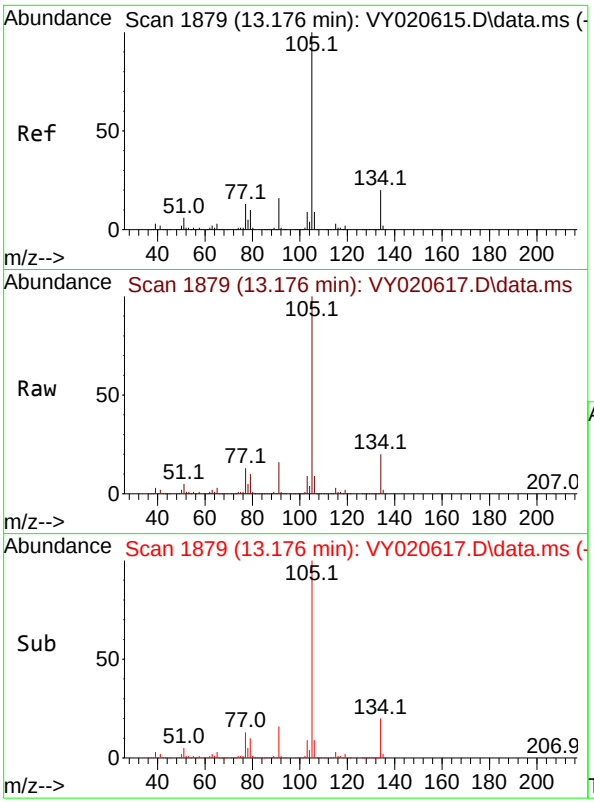




#84
1,2,4-Trimethylbenzene
Concen: 139.253 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:105 Resp: 1313945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.2 | 21.8 | 65.4 |



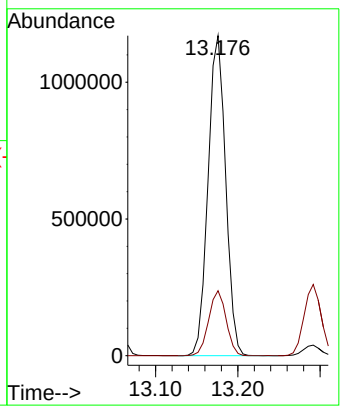


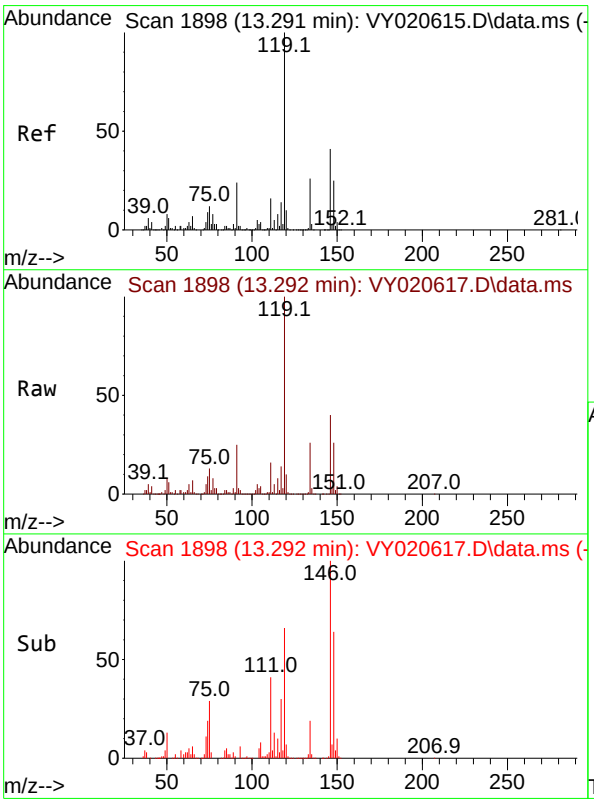

#85
sec-Butylbenzene
Concen: 137.147 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:105 Resp: 1737212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.2 | 10.0 | 30.0 |

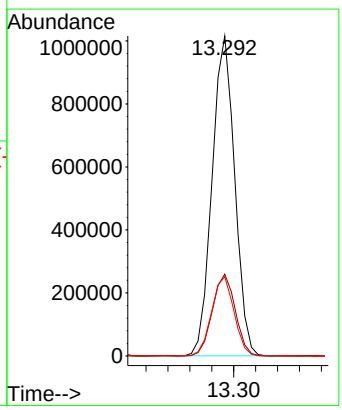


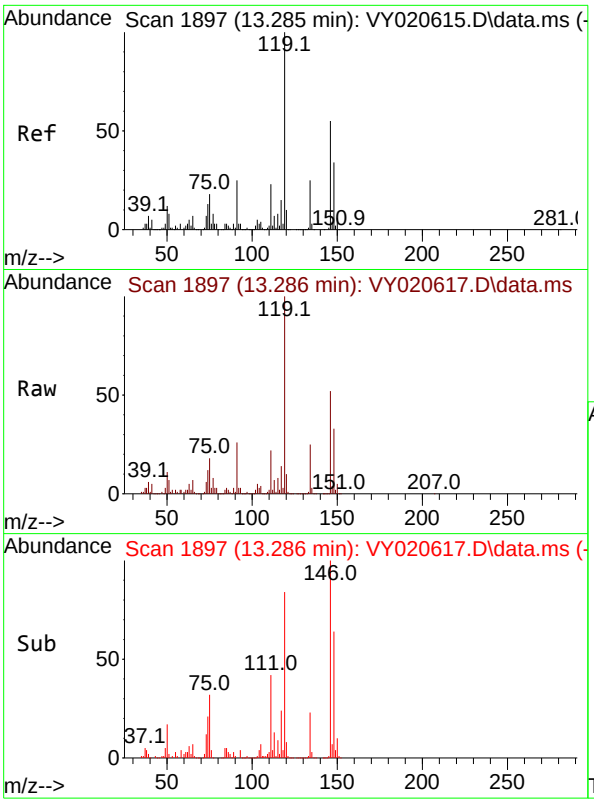




#86
p-Isopropyltoluene
Concen: 139.472 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:119 Resp: 1456581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.9 | 38.6 |
| 91 | 24.5 | 12.1 | 36.3 |



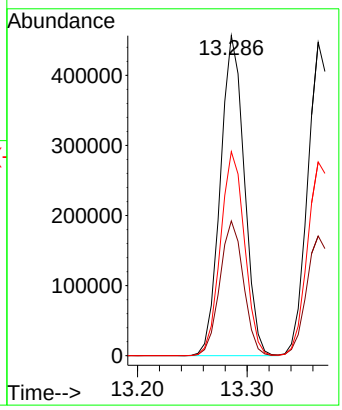


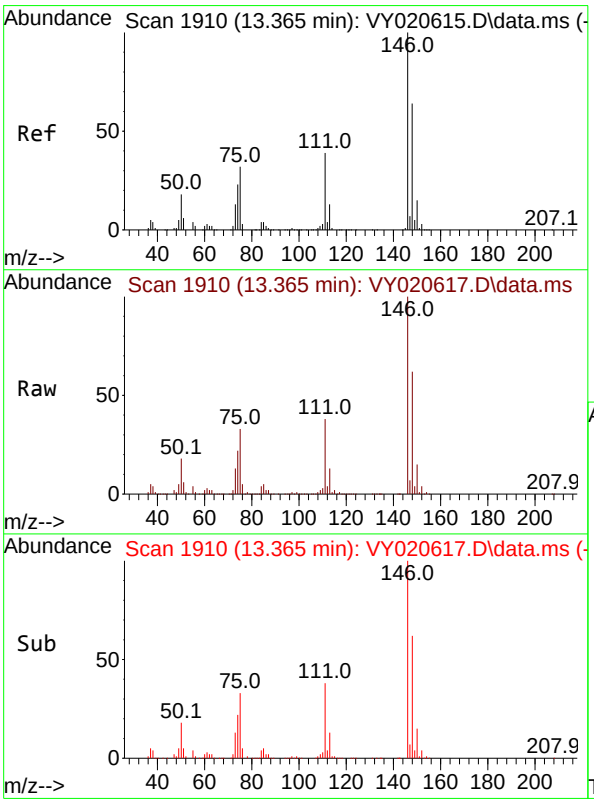

#87
1,3-Dichlorobenzene
Concen: 136.109 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:146 Resp: 693843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.4 | 20.6 | 61.8 |
| 148 | 63.9 | 31.4 | 94.0 |

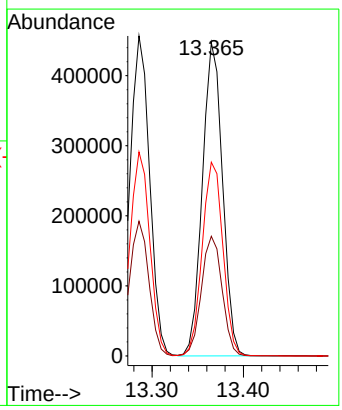


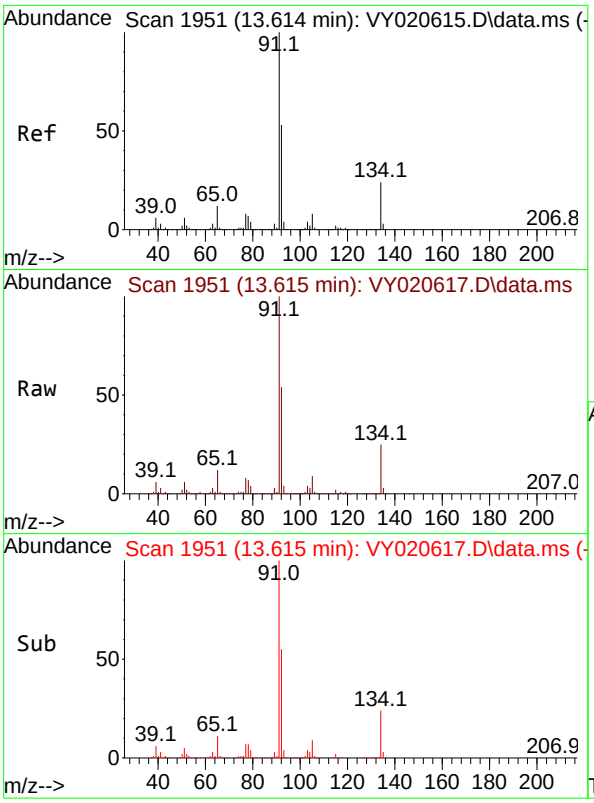




#88
1,4-Dichlorobenzene
Concen: 135.587 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:146 Resp: 684559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.6 | 58.7 |
| 148 | 63.5 | 31.9 | 95.5 |



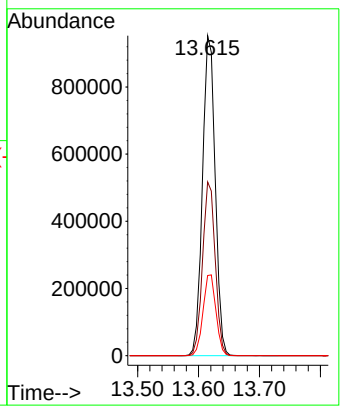


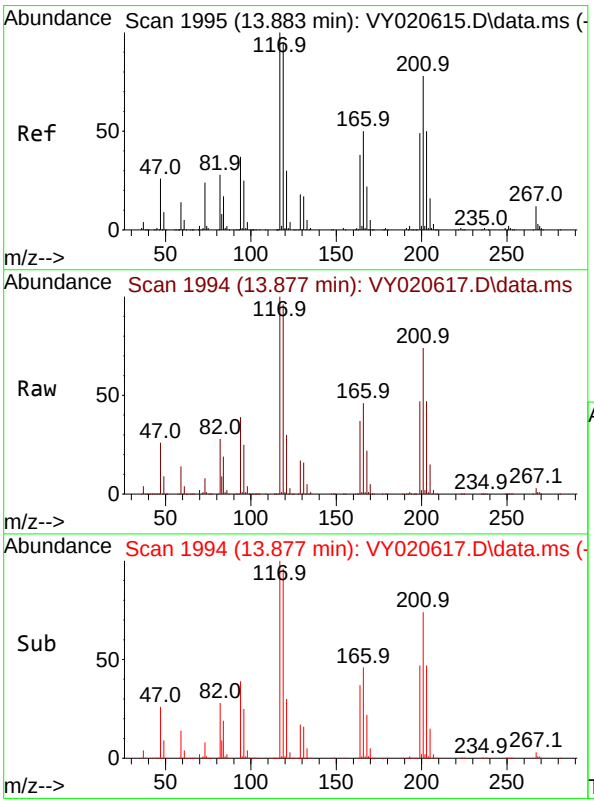

#89
n-Butylbenzene
Concen: 139.722 ug/l
RT: 13.615 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 1382912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.1 | 26.8 | 80.4 |
| 134 | 25.7 | 12.5 | 37.5 |

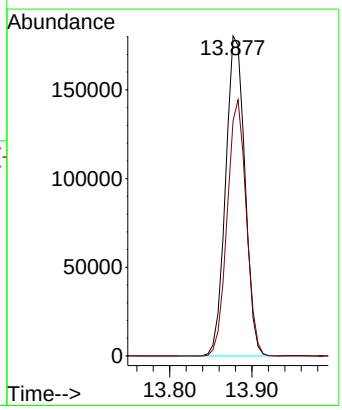


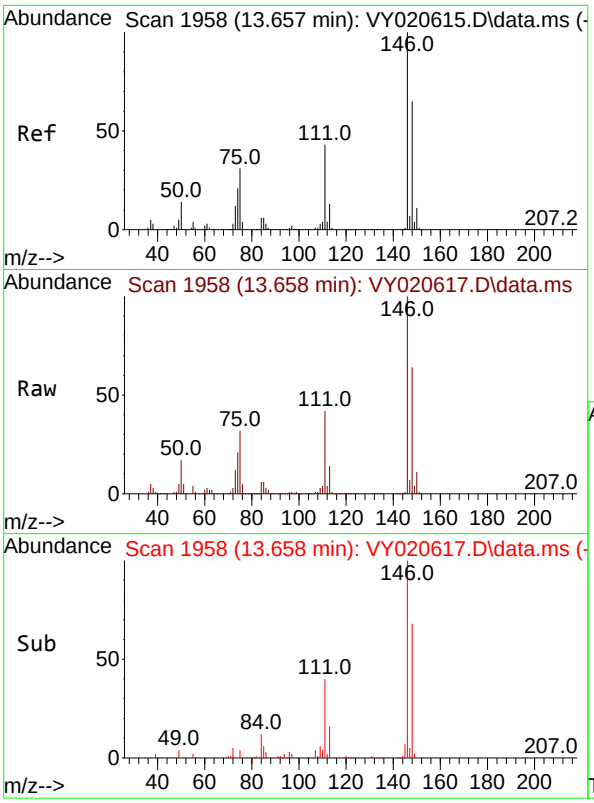




#90
Hexachloroethane
Concen: 141.843 ug/l
RT: 13.877 min Scan# 1994
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:117 Resp: 293562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 79.1 | 39.1 | 117.3 |



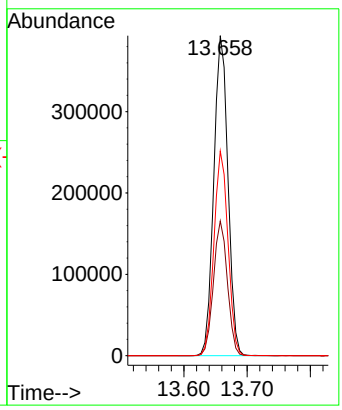


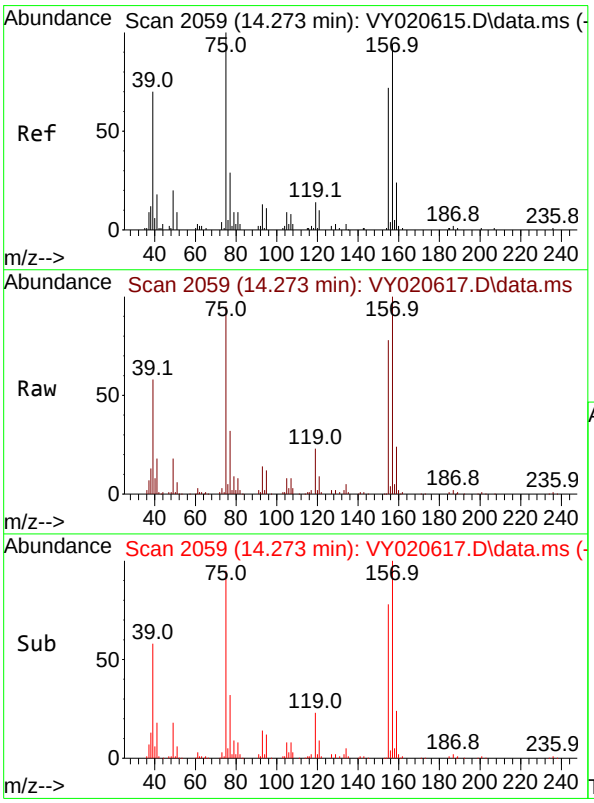

#91
1,2-Dichlorobenzene
Concen: 138.532 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:146 Resp: 611871

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.5 | 21.3 | 63.7 |
| 148 | 63.4 | 32.0 | 96.0 |

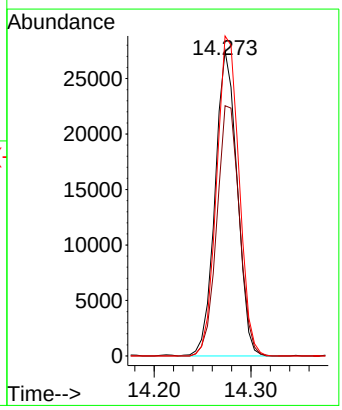


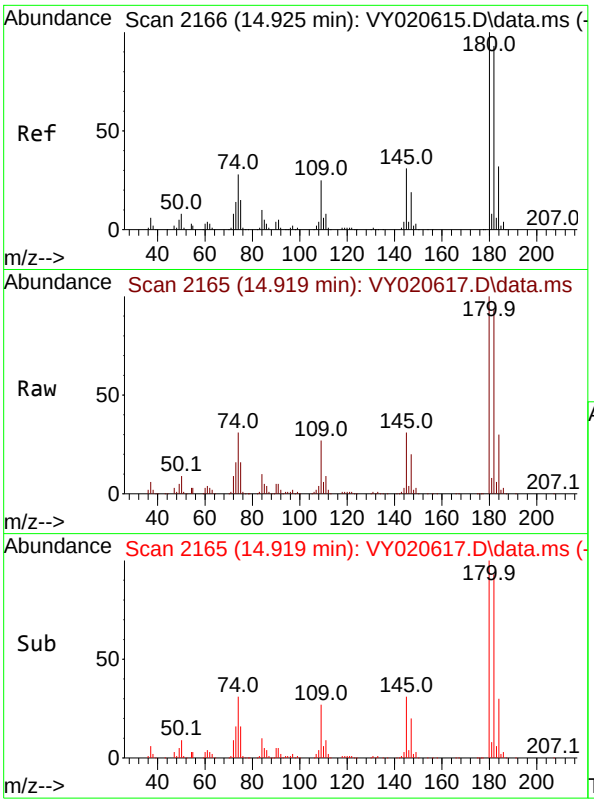




#92
1,2-Dibromo-3-Chloropropane
Concen: 139.274 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion: 75 Resp: 43513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 83.5 | 41.1 | 123.3 |
| 157 | 106.5 | 52.9 | 158.8 |



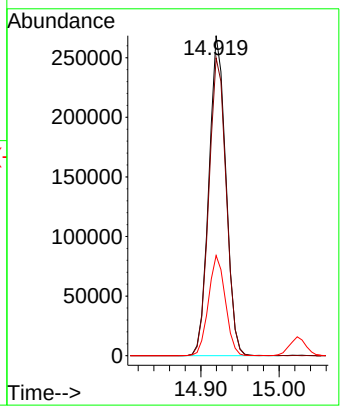


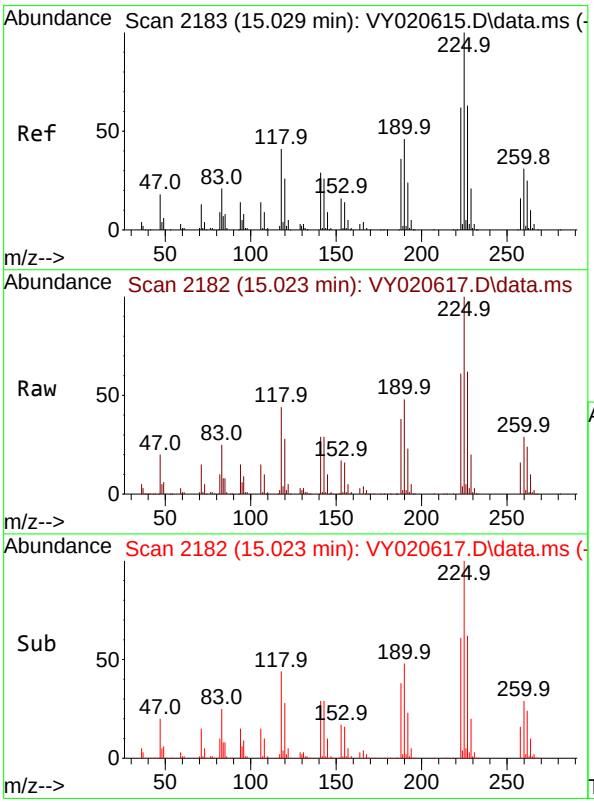

#93
1,2,4-Trichlorobenzene
Concen: 151.011 ug/l
RT: 14.919 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:180 Resp: 403445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 47.9 | 143.6 |
| 145 | 31.1 | 15.6 | 46.7 |

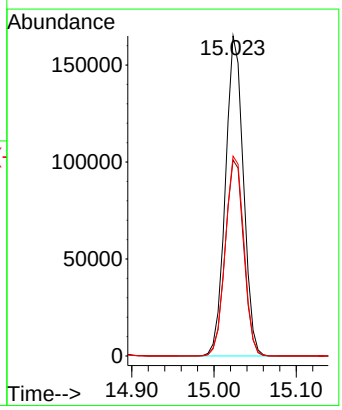


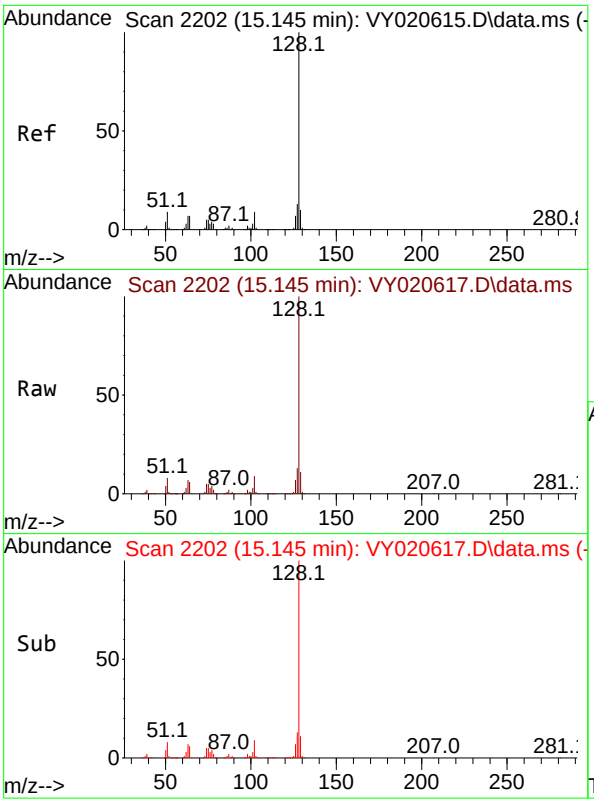




#94
Hexachlorobutadiene
Concen: 143.145 ug/l
RT: 15.023 min Scan# 2182
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:225 Resp: 250003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.1 | 31.8 | 95.3 |
| 227 | 64.5 | 32.2 | 96.6 |



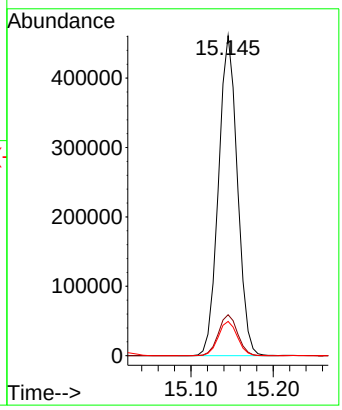


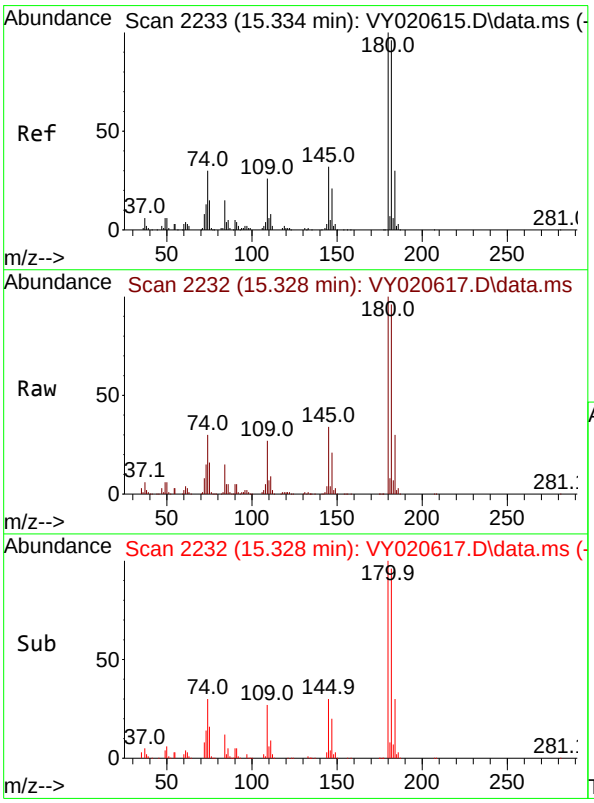

#95
Naphthalene
Concen: 160.836 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:128 Resp: 736677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.7 | 16.1 |
| 129 | 10.8 | 8.5 | 12.7 |

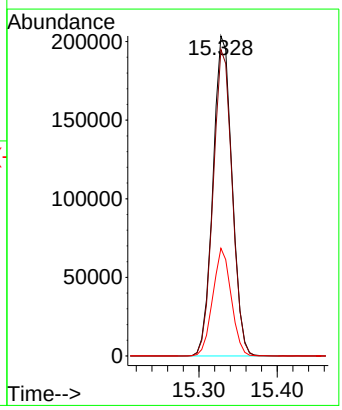



#96
1,2,3-Trichlorobenzene
Concen: 152.787 ug/l
RT: 15.328 min Scan# 2232
Delta R.T. -0.006 min
Lab File: VY020617.D
Acq: 17 Dec 2024 11:37

Tgt Ion:180 Resp: 344880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.4 | 47.3 | 141.9 |
| 145 | 32.5 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 167036 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 257526 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 219786 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 120870 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 10628 | 5.810 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 11.620%# | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 10393 | 5.726 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 11.460%# | | | |
| 50) Toluene-d8 | 10.109 | 98 | 37211 | 5.858 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 11.720%# | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 15073 | 6.066 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 12.140%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 11112 | 5.326 | ug/l | | 100 |
| 3) Chloromethane | 2.074 | 50 | 9266 | 5.994 | ug/l | | 89 |
| 4) Vinyl Chloride | 2.208 | 62 | 8140 | 5.657 | ug/l | | 91 |
| 5) Bromomethane | 2.599 | 94 | 5462 | 5.906 | ug/l | | 84 |
| 6) Chloroethane | 2.739 | 64 | 5039 | 5.667 | ug/l | | 97 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 16587 | 5.509 | ug/l | | 89 |
| 8) Diethyl Ether | 3.464 | 74 | 5733 | 5.430 | ug/l | | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 11901 | 5.515 | ug/l | | 98 |
| 10) Methyl Iodide | 4.007 | 142 | 11197 | 4.660 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.848 | 59 | 7794 | 12.197 | ug/l | # | 86 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 11147 | 5.324 | ug/l | | 85 |
| 13) Acrolein | 3.659 | 56 | 2720 | 31.444 | ug/l | | 97 |
| 14) Allyl chloride | 4.385 | 41 | 19430 | 5.296 | ug/l | | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 12057 | 23.869 | ug/l | | 98 |
| 16) Acetone | 3.873 | 43 | 14032 | 33.023 | ug/l | | 94 |
| 17) Carbon Disulfide | 4.110 | 76 | 35780 | 5.250 | ug/l | | 97 |
| 18) Methyl Acetate | 4.391 | 43 | 6311 | 5.070 | ug/l | | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 25765 | 4.768 | ug/l | | 93 |
| 20) Methylene Chloride | 4.616 | 84 | 12792 | 5.624 | ug/l | | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 11813 | 5.030 | ug/l | | 93 |
| 22) Diisopropyl ether | 6.019 | 45 | 37011 | 4.970 | ug/l | # | 88 |
| 23) Vinyl Acetate | 5.964 | 43 | 98112 | 23.261 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 22261 | 5.102 | ug/l | | 96 |
| 25) 2-Butanone | 6.897 | 43 | 19017 | 27.972 | ug/l | | 94 |
| 26) 2,2-Dichloropropane | 6.878 | 77 | 24236 | 5.876 | ug/l | | 93 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 13806 | 5.109 | ug/l | | 93 |
| 28) Bromochloromethane | 7.244 | 49 | 7129 | 4.844 | ug/l | | 96 |
| 29) Tetrahydrofuran | 7.268 | 42 | 9729 | 22.669 | ug/l | | 97 |
| 30) Chloroform | 7.421 | 83 | 34563 | 2.901 | ug/l | | 98 |
| 31) Cyclohexane | 7.707 | 56 | 24108 | 5.779 | ug/l | # | 85 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 20368 | 5.082 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 17712 | 5.352 | ug/l | | 98 |
| 37) Ethyl Acetate | 6.988 | 43 | 7613 | 4.890 | ug/l | | 96 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 18792 | 5.132 | ug/l | | 96 |
| 39) Methylcyclohexane | 9.110 | 83 | 22745 | 5.273 | ug/l | | 94 |
| 40) Benzene | 8.079 | 78 | 49636 | 5.117 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.268 | 41 | 9689 | 11.773 | ug/l | # | 30 |
| 42) 1,2-Dichloroethane | 8.159 | 62 | 12917 | 5.020 | ug/l | | 95 |
| 43) Isopropyl Acetate | 8.195 | 43 | 13361 | 4.533 | ug/l | # | 86 |
| 44) Trichloroethene | 8.866 | 130 | 12384 | 5.195 | ug/l | | 88 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 11378 | 5.019 | ug/l | | 96 |
| 46) Dibromomethane | 9.231 | 93 | 5965 | 4.978 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 16115 | 4.979 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.219 | 41 | 6545 | 4.671 | ug/l | | 93 |
| 49) 1,4-Dioxane | 9.225 | 88 | 1268 | 92.278 | ug/l | # | 82 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 38280 | 24.607 | ug/l | | 98 |
| 52) Toluene | 10.170 | 92 | 30294 | 5.025 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 13747 | 4.558 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 17025 | 4.764 | ug/l | | 95 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 7935 | 5.009 | ug/l | | 93 |
| 56) Ethyl methacrylate | 10.439 | 69 | 10000 | 4.351 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 13754 | 4.870 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 23872 | 24.686 | ug/l | | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 23164 | 23.192 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.914 | 129 | 10207 | 4.818 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 7143 | 4.847 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.646 | 164 | 11707 | 5.663 | ug/l | | 96 |
| 65) Chlorobenzene | 11.445 | 112 | 31674 | 5.154 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 10526 | 5.009 | ug/l | | 94 |
| 67) Ethyl Benzene | 11.518 | 91 | 57861 | 5.103 | ug/l | | 100 |
| 68) m/p-Xylenes | 11.627 | 106 | 43257 | 10.262 | ug/l | | 100 |
| 69) o-Xylene | 11.957 | 106 | 19639 | 4.993 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 32495 | 4.945 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 5762 | 4.877 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 53196 | 5.043 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 10480 | 4.245 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 8331 | 4.866 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 10818 | 8.690 | ug/l | # | 100 |
| 77) Bromobenzene | 12.536 | 156 | 11774 | 5.124 | ug/l | | 98 |
| 78) n-propylbenzene | 12.597 | 91 | 64140 | 5.047 | ug/l | | 97 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 36508 | 5.106 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 43711 | 5.107 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 2558 | 4.276 | ug/l | | 90 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 39447 | 5.318 | ug/l | | 98 |
| 83) tert-Butylbenzene | 12.999 | 119 | 38538 | 4.972 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 41754 | 4.974 | ug/l | | 97 |
| 85) sec-Butylbenzene | 13.176 | 105 | 58088 | 5.154 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 46384 | 4.992 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 23757 | 5.238 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 24276 | 5.404 | ug/l | | 94 |
| 89) n-Butylbenzene | 13.621 | 91 | 43817 | 4.976 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 9361 | 5.084 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 20478 | 5.211 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 1404 | 5.051 | ug/l | | 89 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 11648 | 4.900 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 8059 | 5.186 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 17365 | 4.261 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 9821 | 4.890 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration

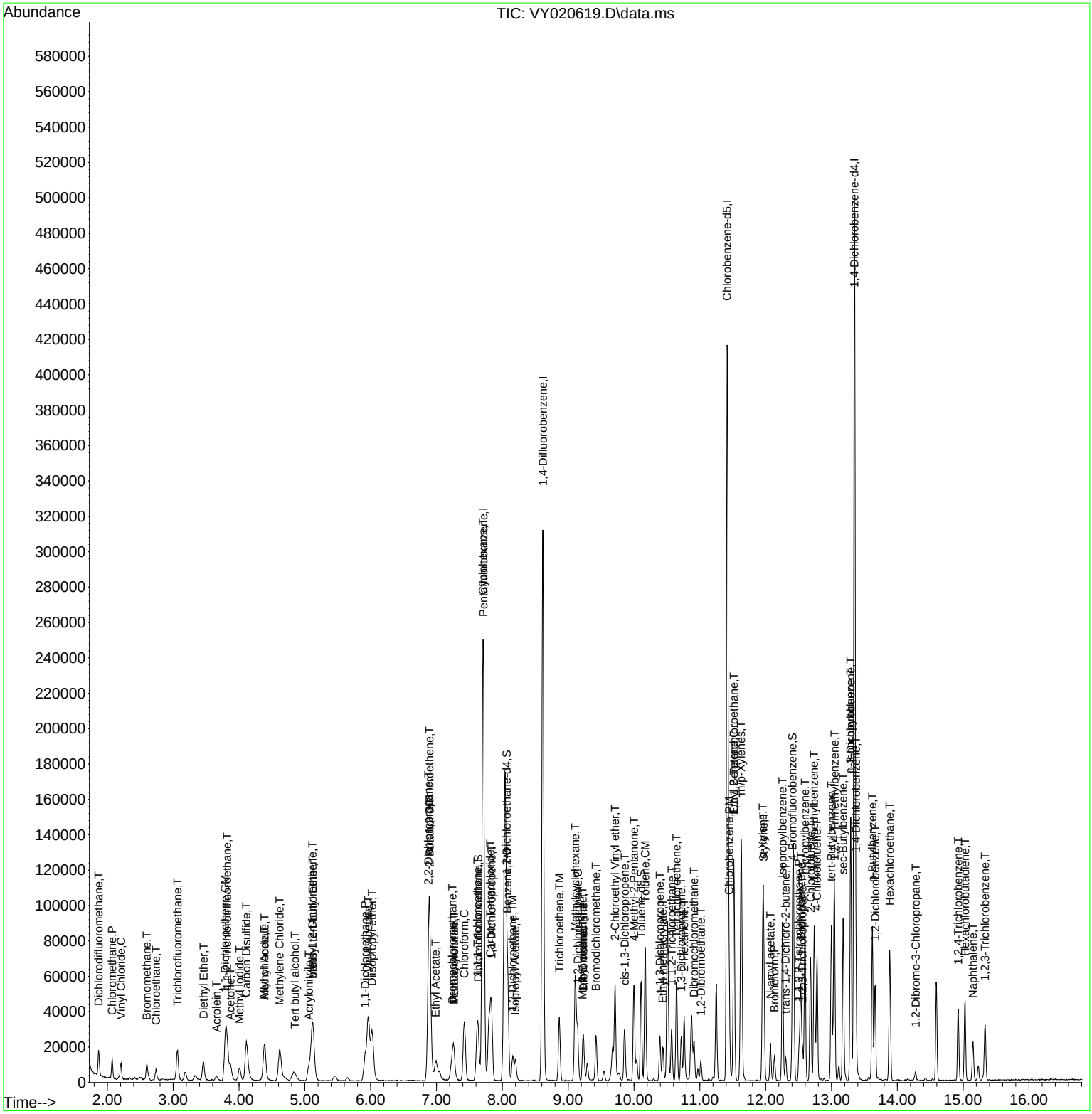
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

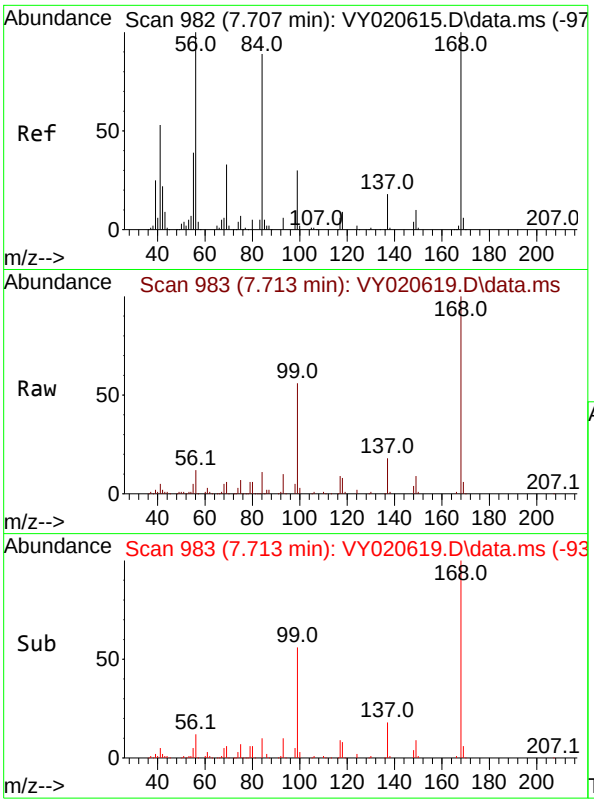
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020619.D
Acq On : 17 Dec 2024 14:51
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Dec 18 04:55:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 04:39:18 2024
Response via : Initial Calibration



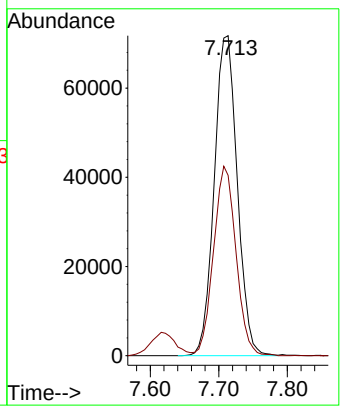


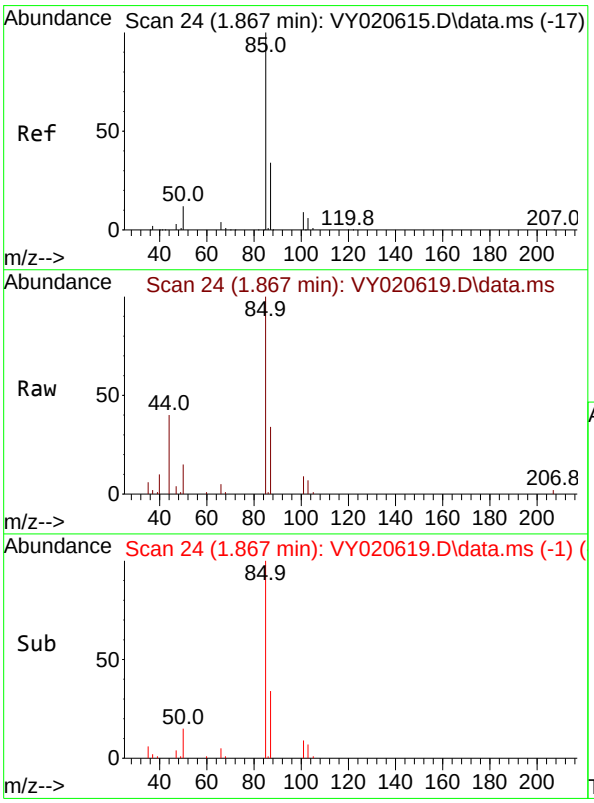

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:168 Resp: 167036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.4 | 47.0 | 70.6 |

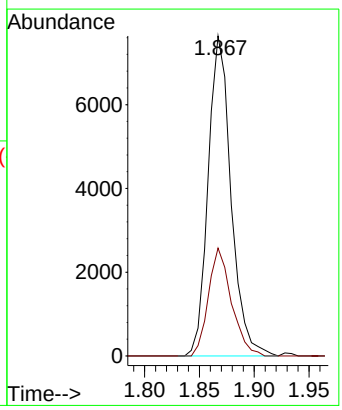


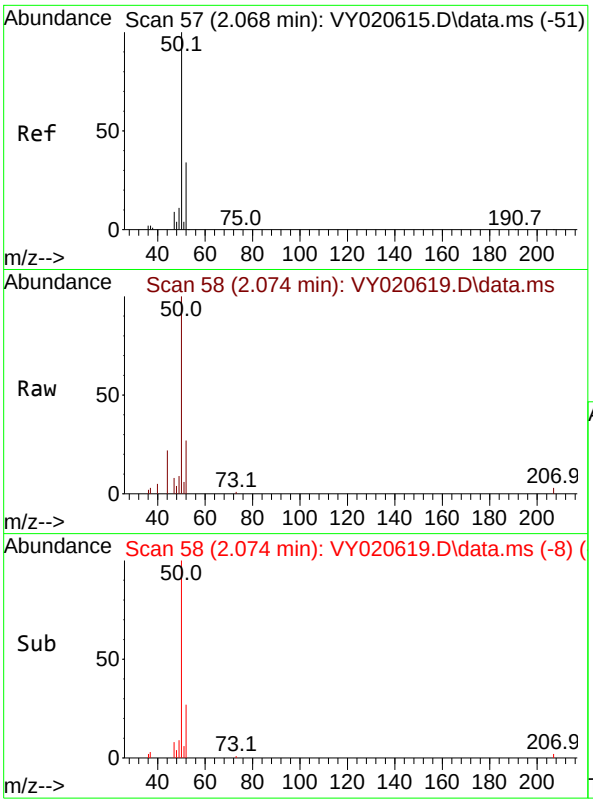




#2
Dichlorodifluoromethane
Concen: 5.326 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 85 Resp: 11112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.7 | 16.8 | 50.3 |



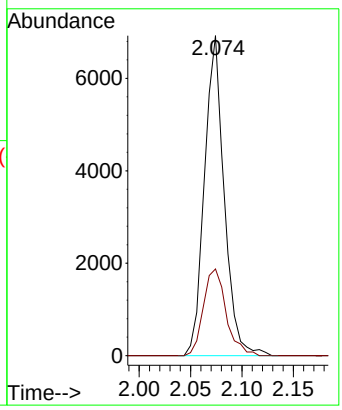


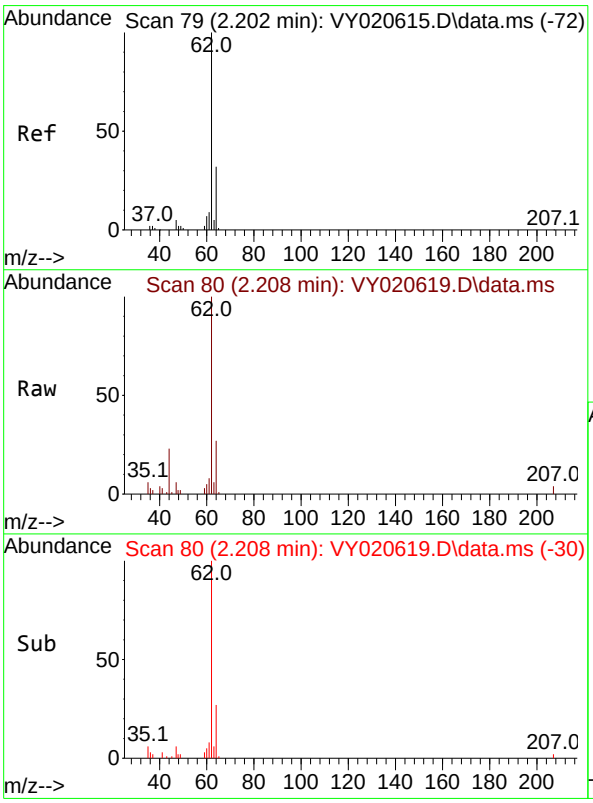

#3
Chloromethane
Concen: 5.994 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 50 Resp: 9266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 27.1 | 26.8 | 40.2 |

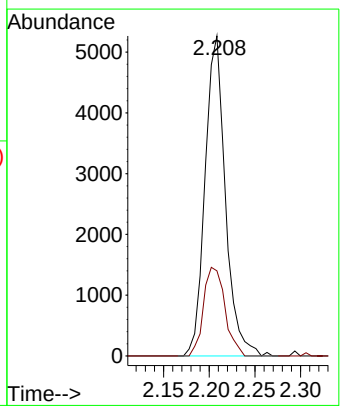


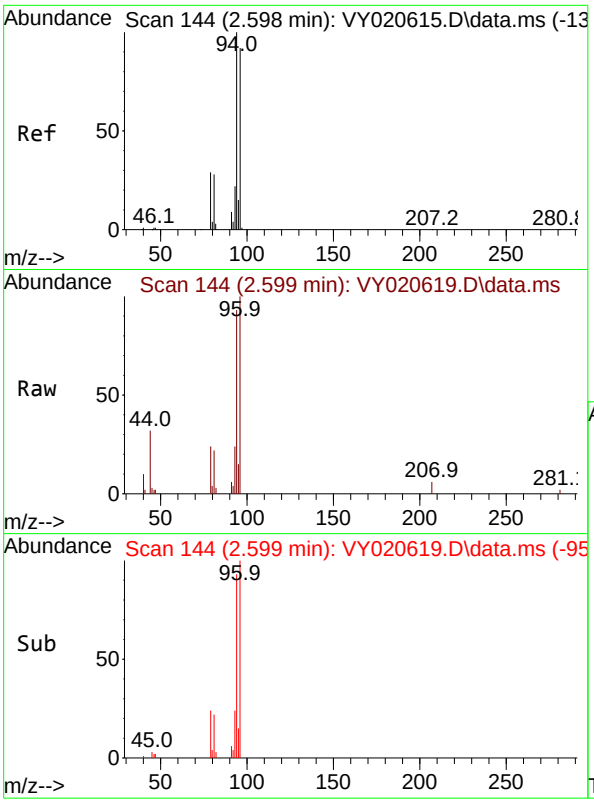




#4
Vinyl Chloride
Concen: 5.657 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 62 Resp: 8140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 26.6 | 25.3 | 37.9 |



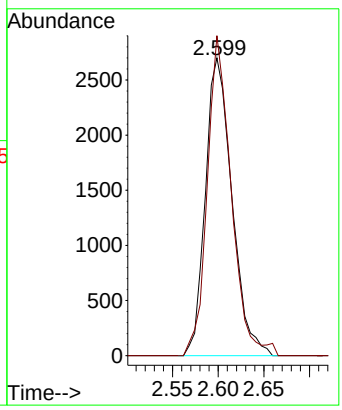


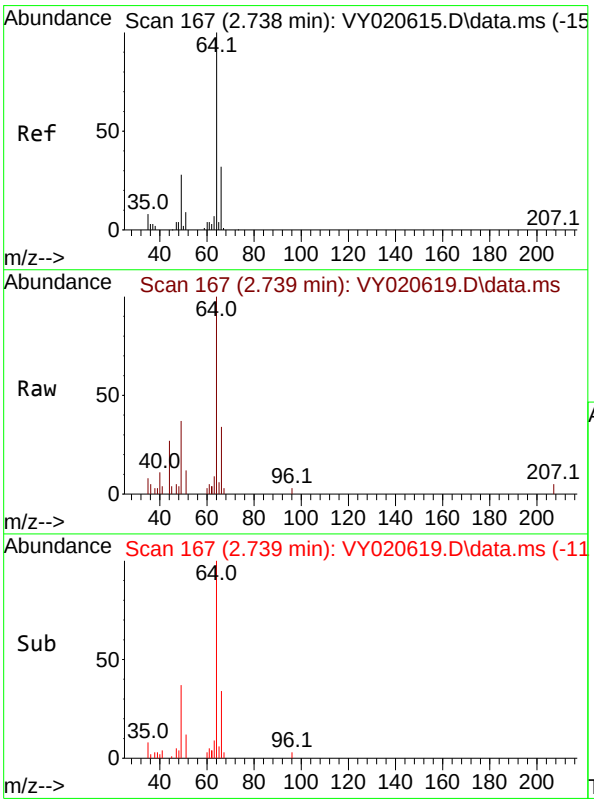

#5
Bromomethane
Concen: 5.906 ug/l
RT: 2.599 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 94 Resp: 5462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 107.5 | 73.8 | 110.6 |

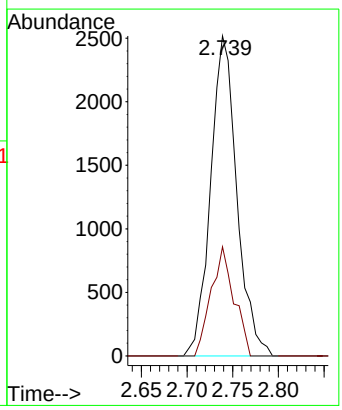


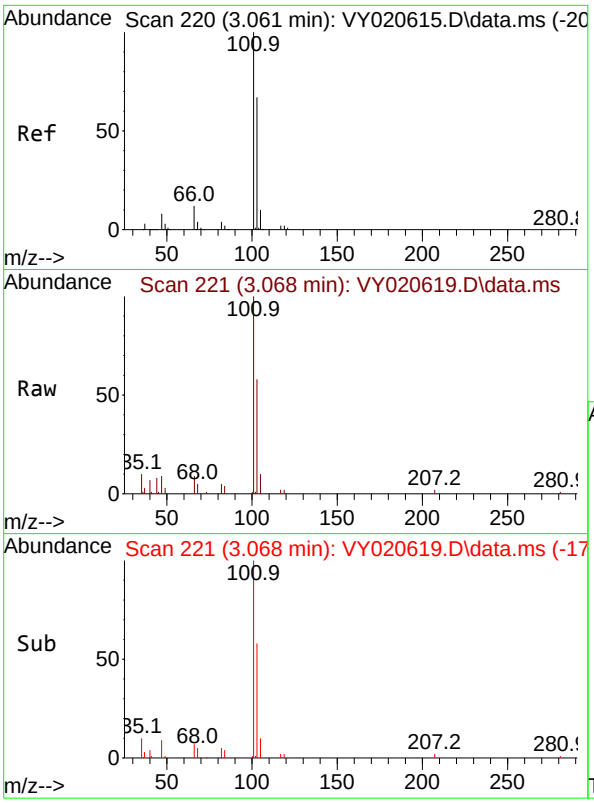




#6
Chloroethane
Concen: 5.667 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 64 Resp: 5039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.1 | 25.8 | 38.6 |



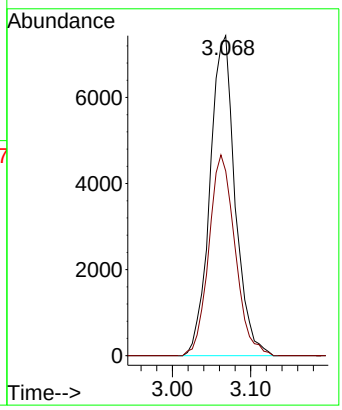


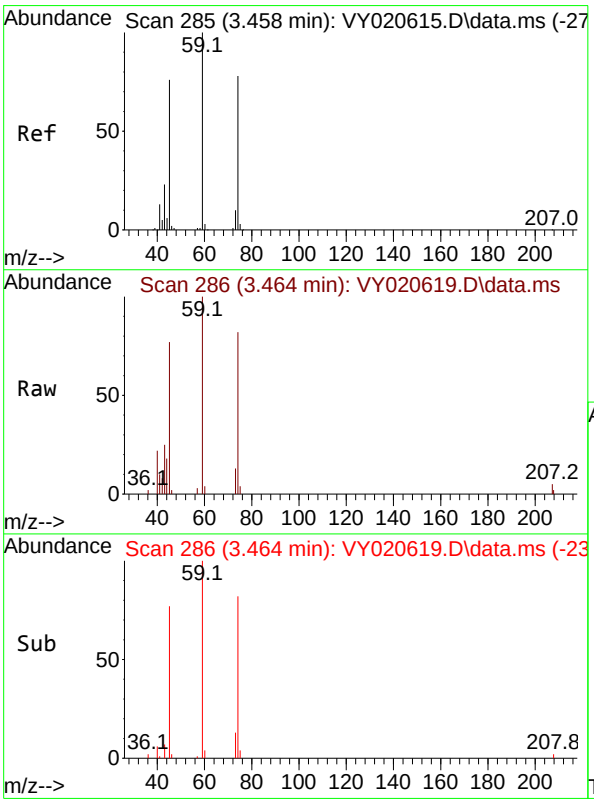

#7
Trichlorofluoromethane
Concen: 5.509 ug/l
RT: 3.068 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 16587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 57.7 | 53.4 | 80.0 |

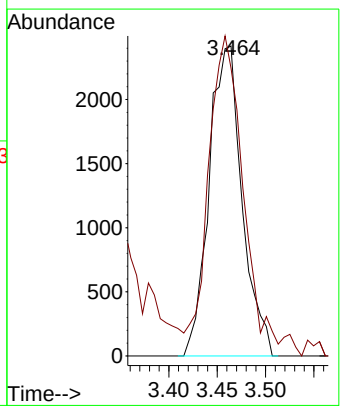


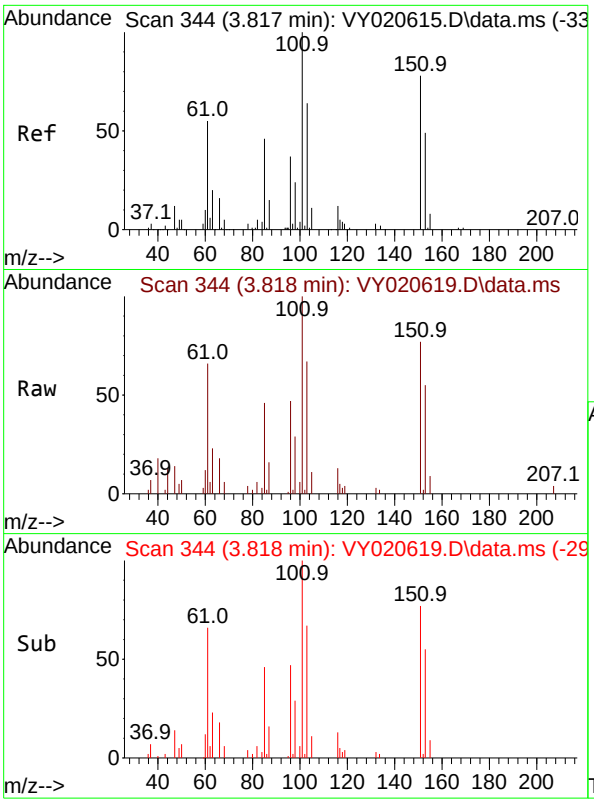




#8
Diethyl Ether
Concen: 5.430 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 74 Resp: 5733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 100.2 | 49.0 | 147.2 |



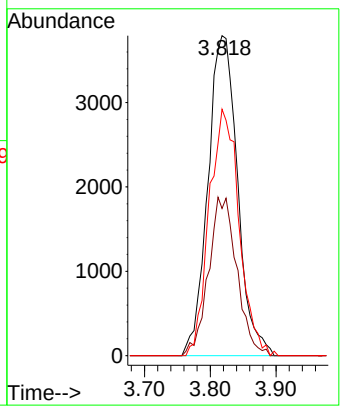


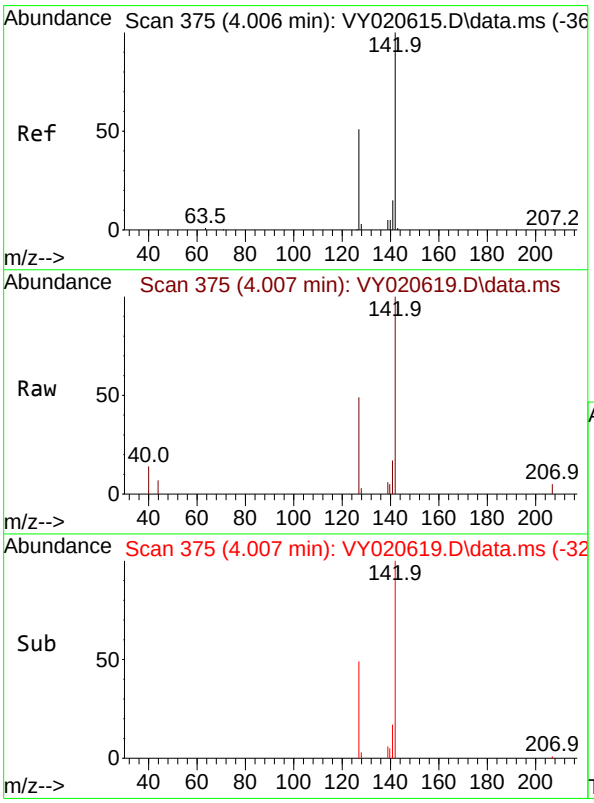

#9
1,1,2-Trichlorotrifluoroethane
Concen: 5.515 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 11901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.3 | 36.6 | 54.8 |
| 151 | 77.7 | 61.5 | 92.3 |

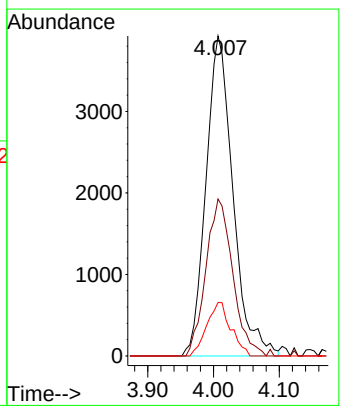


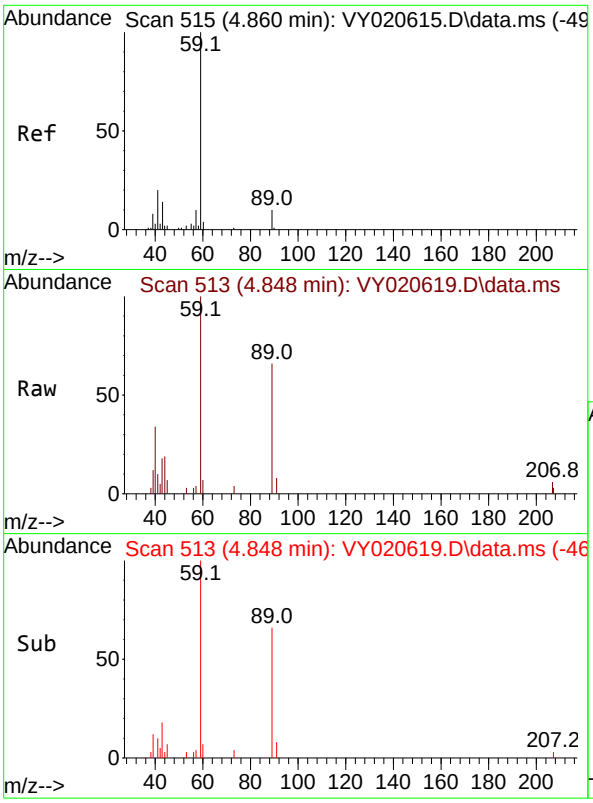




#10
Methyl Iodide
Concen: 4.660 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:142 Resp: 11197

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 48.8 | 40.6 | 61.0 |
| 141 | 14.9 | 11.7 | 17.5 |



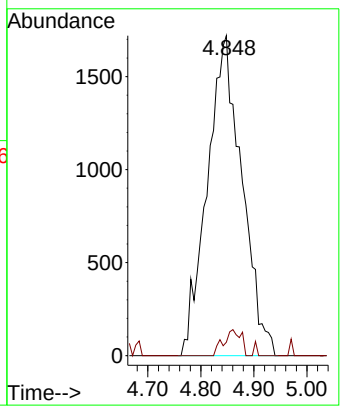


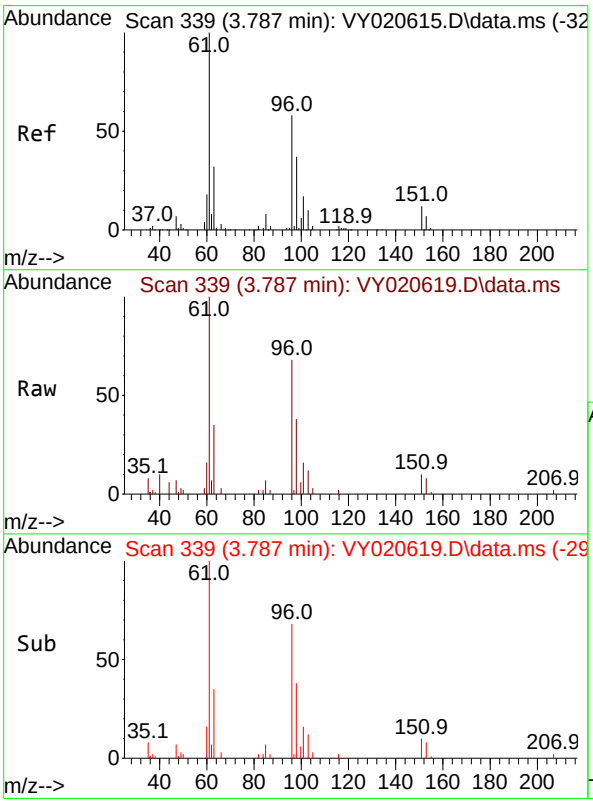

#11
Tert butyl alcohol
Concen: 12.197 ug/l
RT: 4.848 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 59 Resp: 7794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 4.1 | 7.4 | 11.0# |

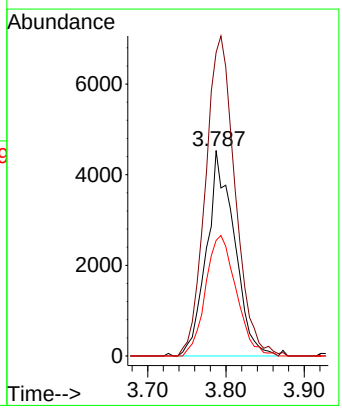


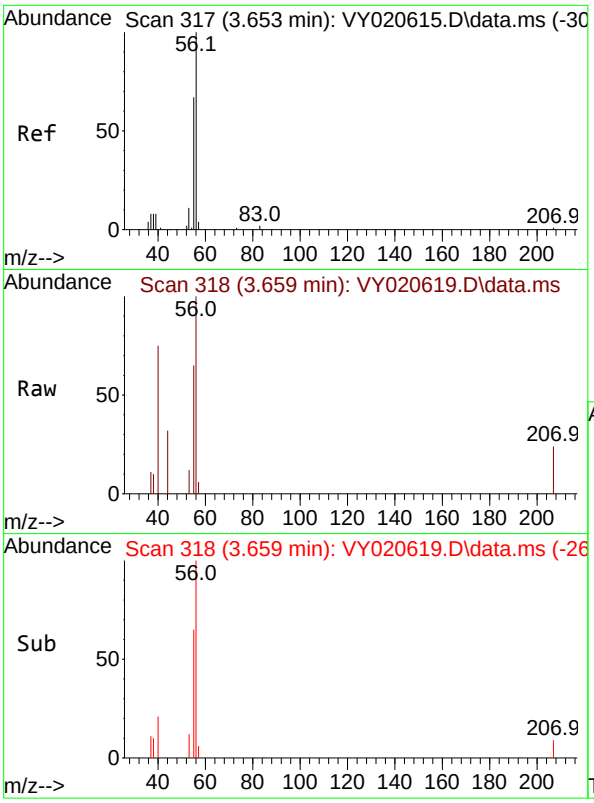




#12
1,1-Dichloroethene
Concen: 5.324 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 96 Resp: 11147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.8 | 136.9 | 205.3 |
| 98 | 56.2 | 50.2 | 75.4 |



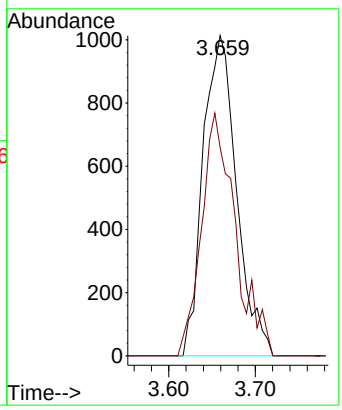


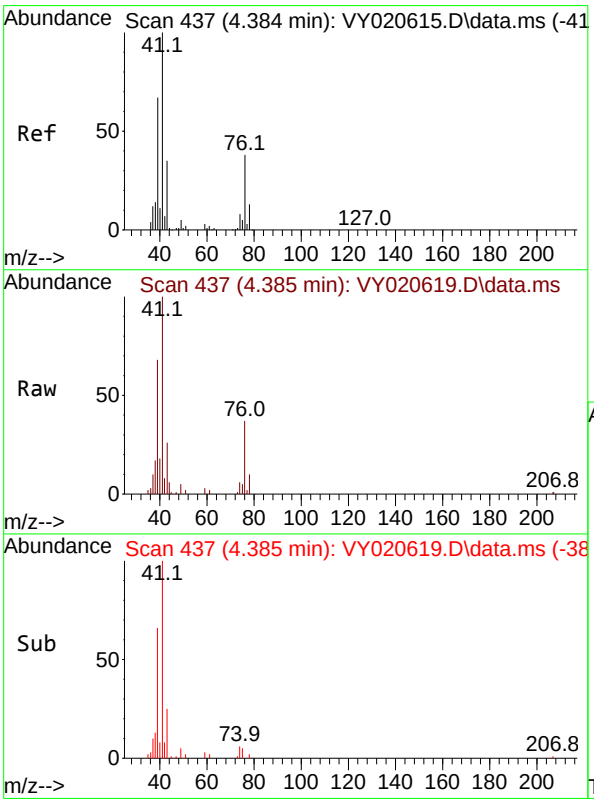

#13
Acrolein
Concen: 31.444 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 2720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.5 | 57.5 | 86.3 |

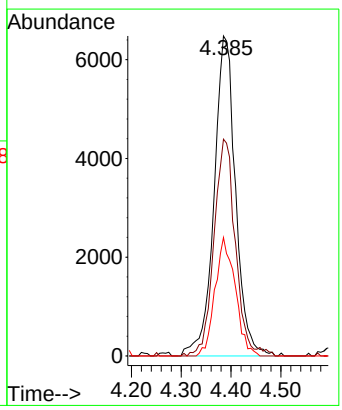


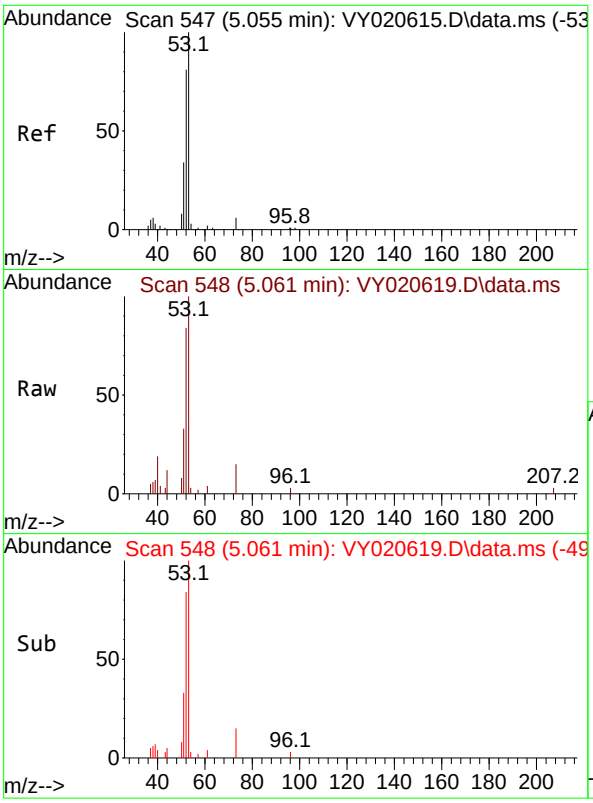




#14
Allyl chloride
Concen: 5.296 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 41 Resp: 19430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.7 | 53.0 | 79.4 |
| 76 | 34.7 | 29.5 | 44.3 |



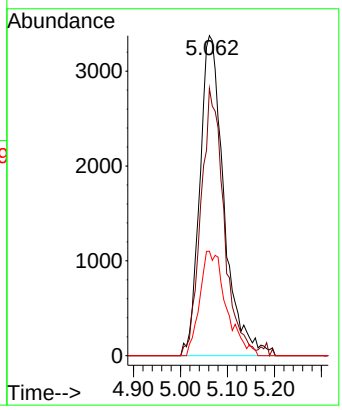


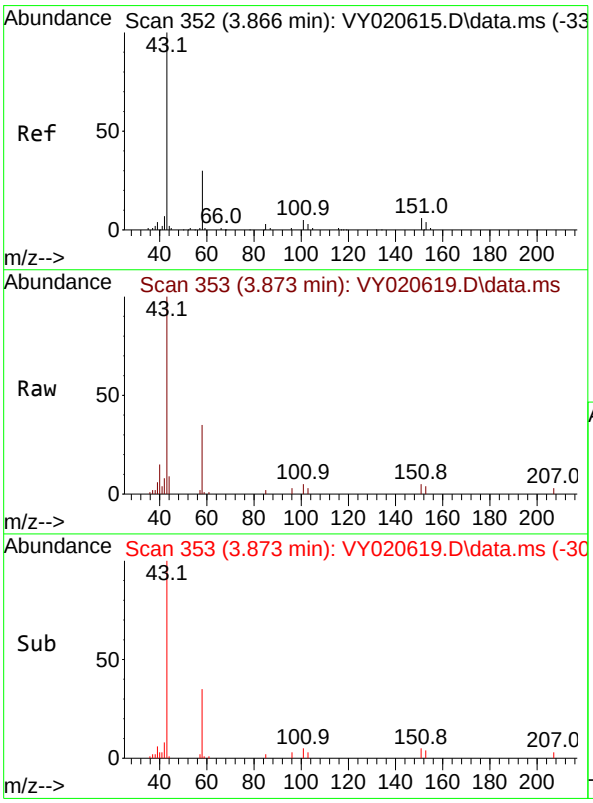

#15
Acrylonitrile
Concen: 23.869 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 53 Resp: 12057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 79.3 | 64.5 | 96.7 |
| 51 | 35.7 | 29.4 | 44.0 |

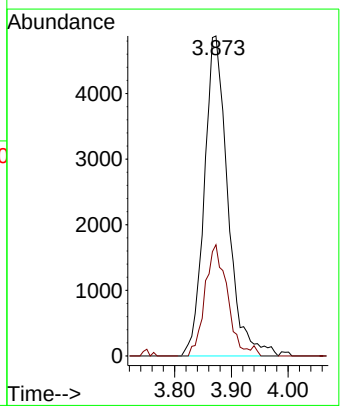


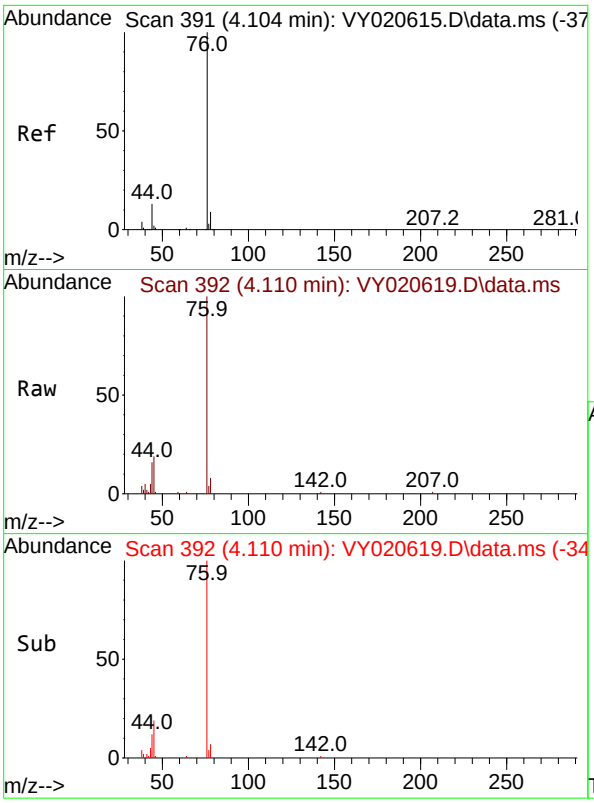




#16
Acetone
Concen: 33.023 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.007 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 14032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.8 | 25.0 | 37.6 |



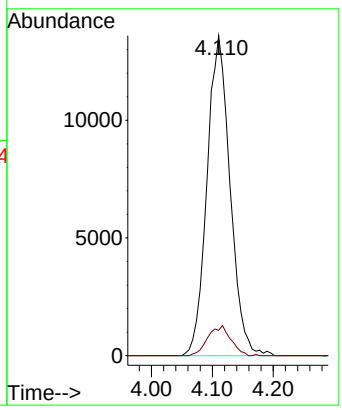


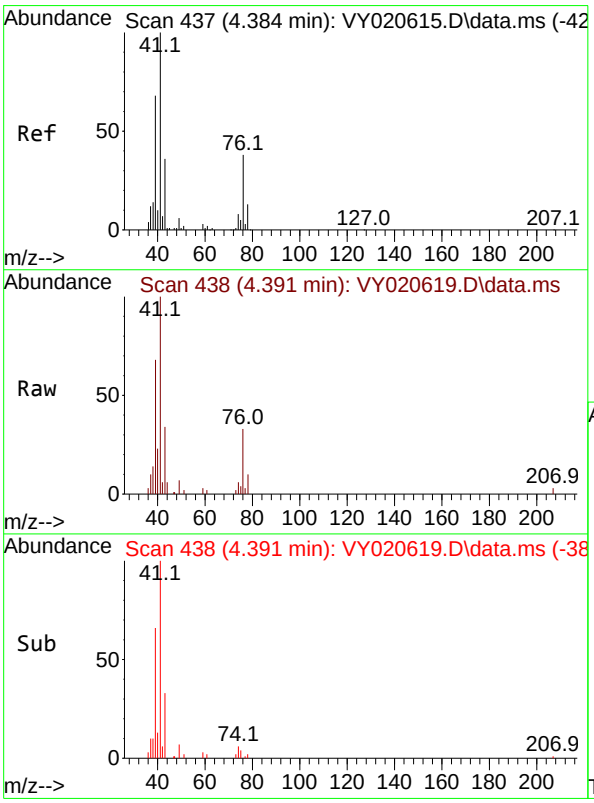

#17
Carbon Disulfide
Concen: 5.250 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 76 Resp: 35780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 7.9 | 7.2 | 10.8 |

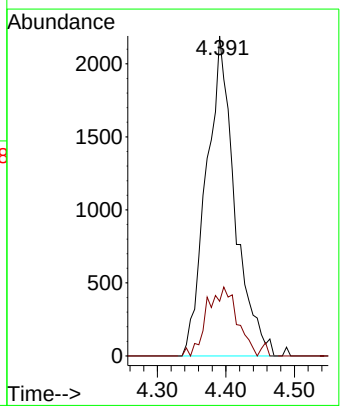


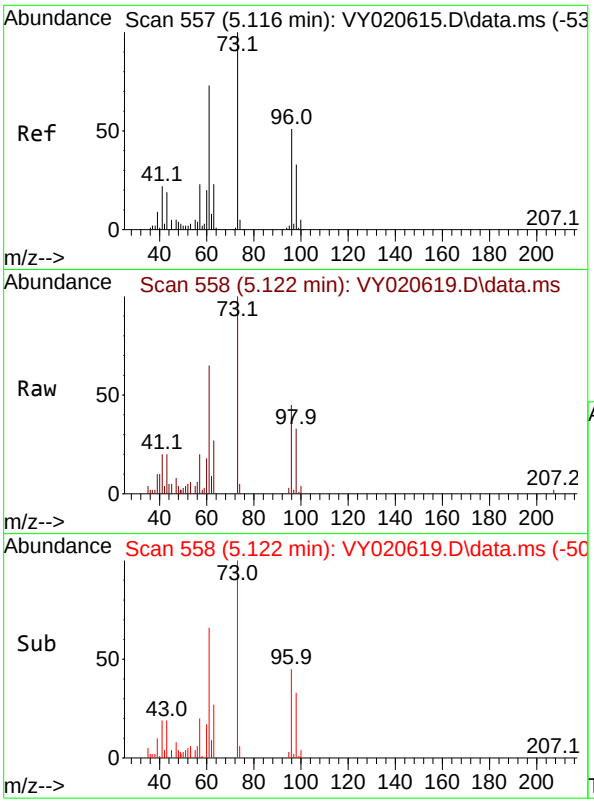




#18
Methyl Acetate
Concen: 5.070 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 6311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 22.8 | 19.2 | 28.8 |



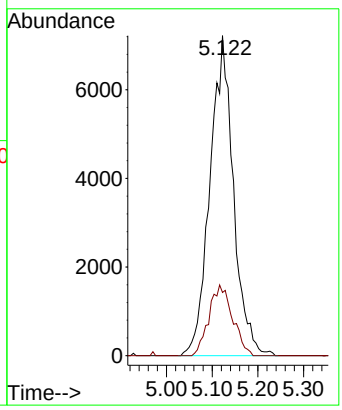


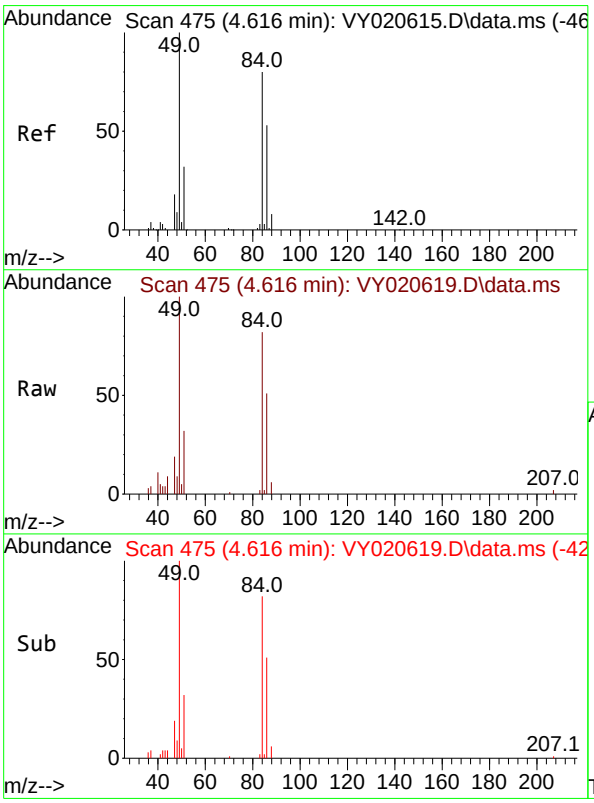

#19
Methyl tert-butyl Ether
Concen: 4.768 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 73 Resp: 25765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.7 | 18.5 | 27.7 |

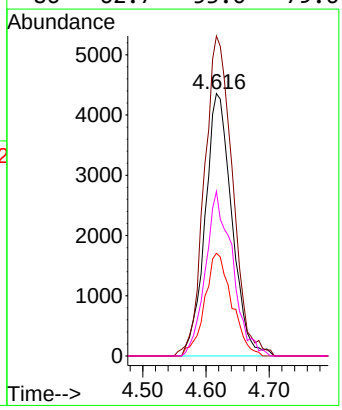


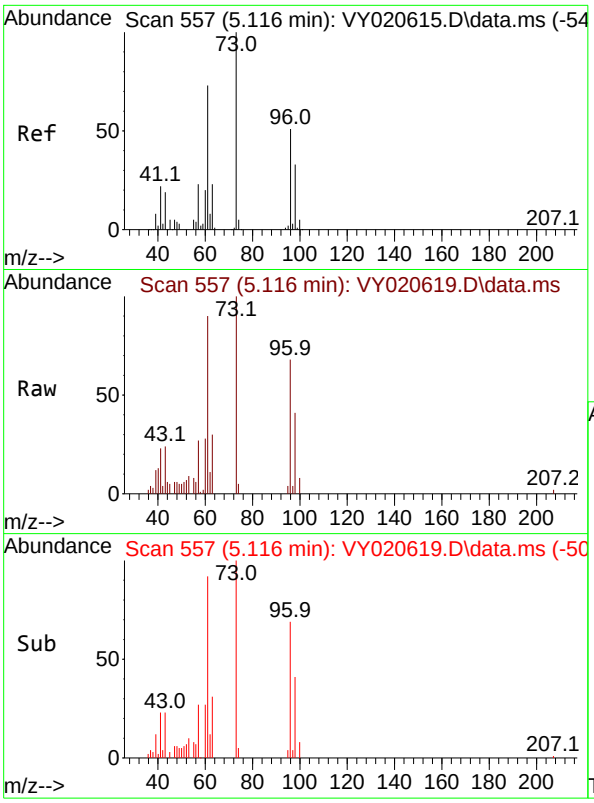




#20
Methylene Chloride
Concen: 5.624 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 84 Resp: 12792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 121.9 | 100.7 | 151.1 |
| 51 | 39.1 | 32.2 | 48.2 |
| 86 | 62.7 | 53.0 | 79.6 |



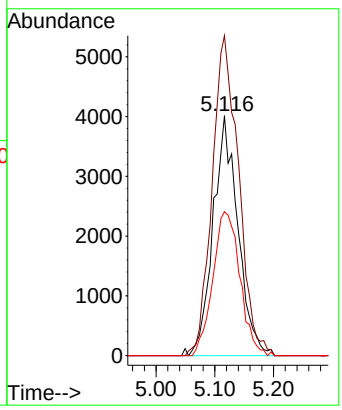


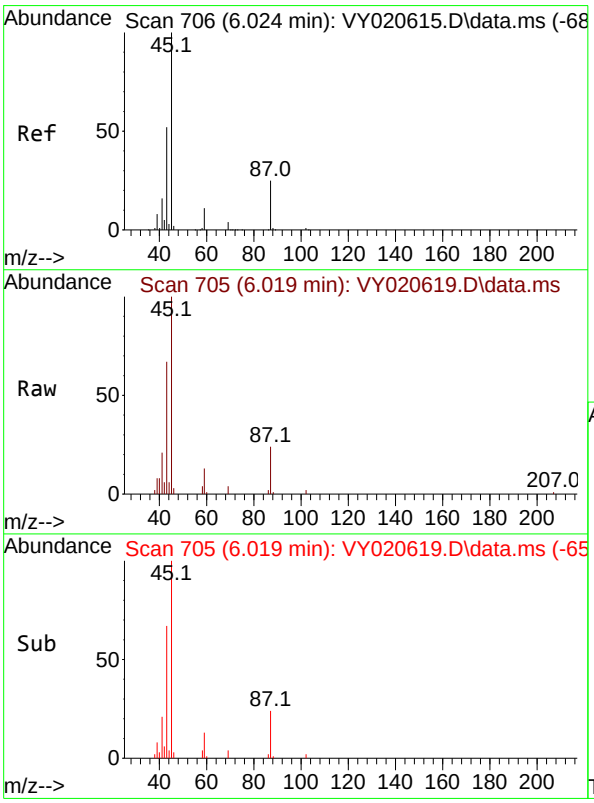

#21
trans-1,2-Dichloroethene
Concen: 5.030 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 96 Resp: 11813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 133.4 | 113.7 | 170.5 |
| 98 | 60.0 | 51.7 | 77.5 |

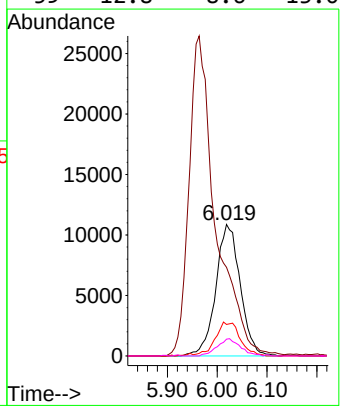


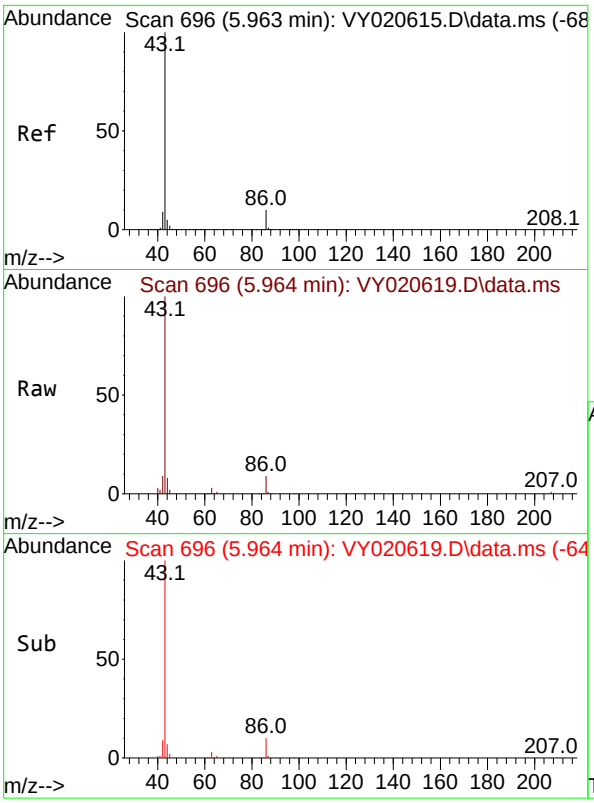




#22
Diisopropyl ether
Concen: 4.970 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 45 Resp: 37011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.6 | 42.6 | 64.0# |
| 87 | 24.0 | 20.6 | 31.0 |
| 59 | 12.8 | 8.6 | 13.0 |



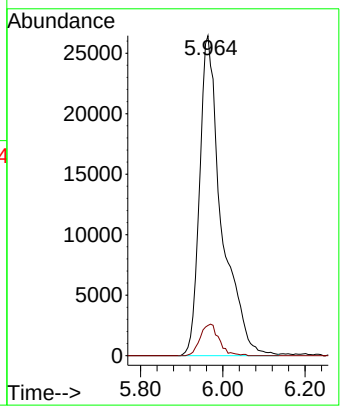


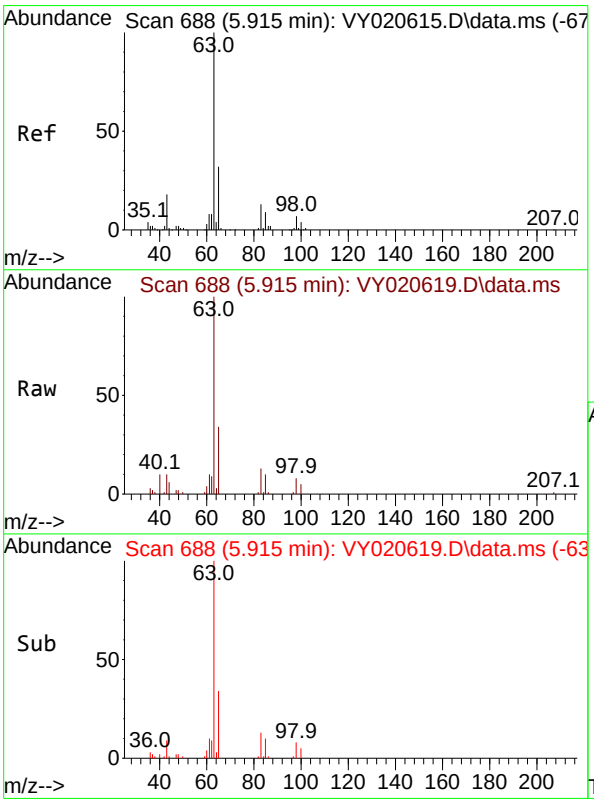

#23
Vinyl Acetate
Concen: 23.261 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 98112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.5 | 8.1 | 12.1 |

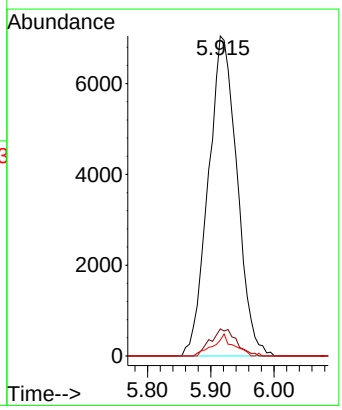


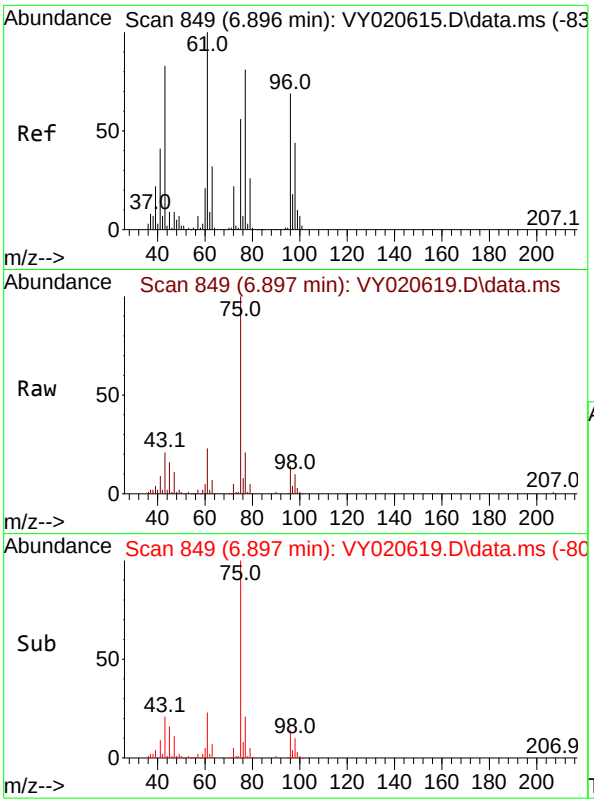




#24
1,1-Dichloroethane
Concen: 5.102 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 63 Resp: 22261

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.4 | 3.4 | 10.1 |
| 100 | 4.9 | 2.1 | 6.5 |



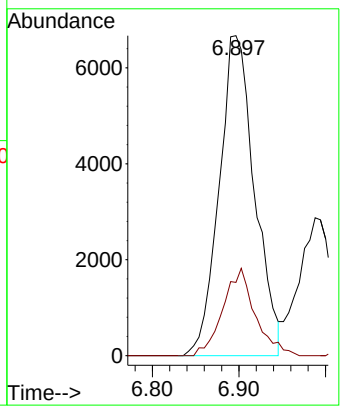


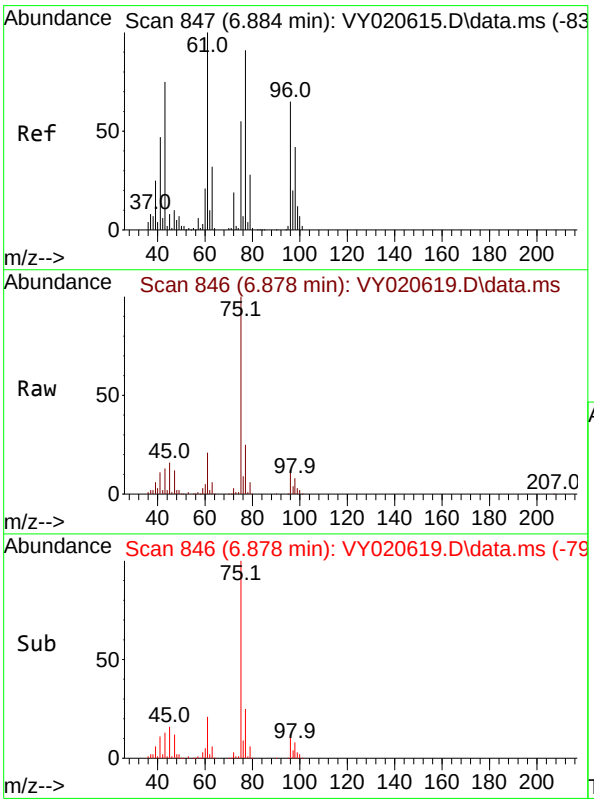

#25
2-Butanone
Concen: 27.972 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 19017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 22.9 | 20.6 | 31.0 |

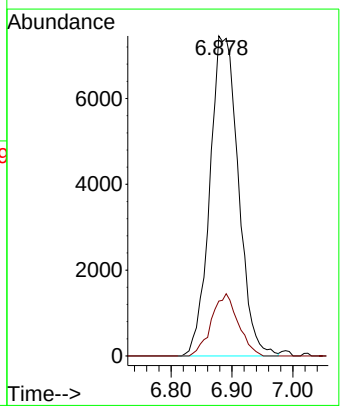


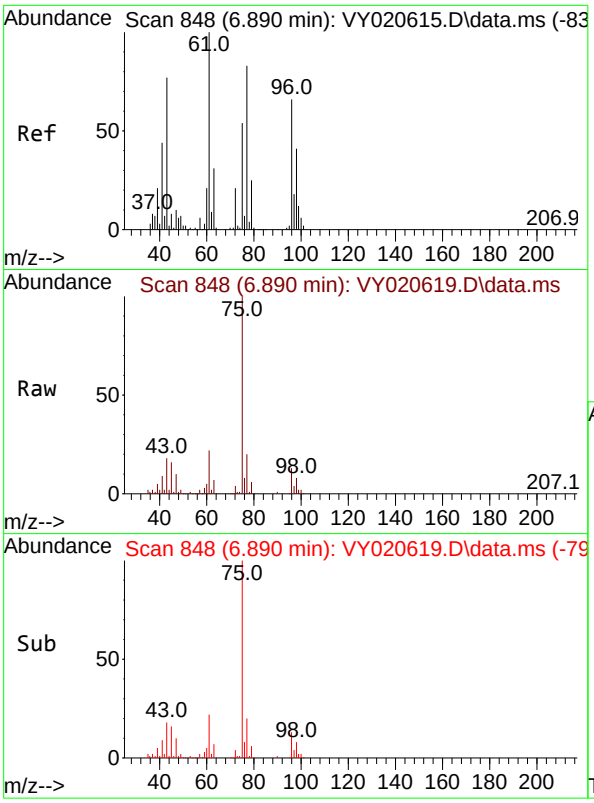




#26
2,2-Dichloropropane
Concen: 5.876 ug/l
RT: 6.878 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 77 Resp: 24236

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 18.3 | 10.9 | 32.6 |



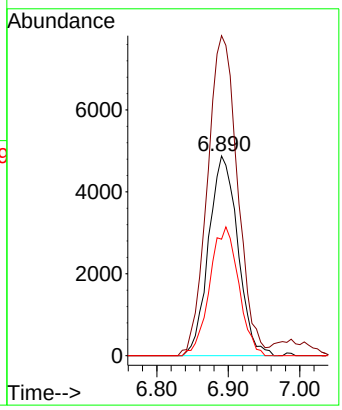


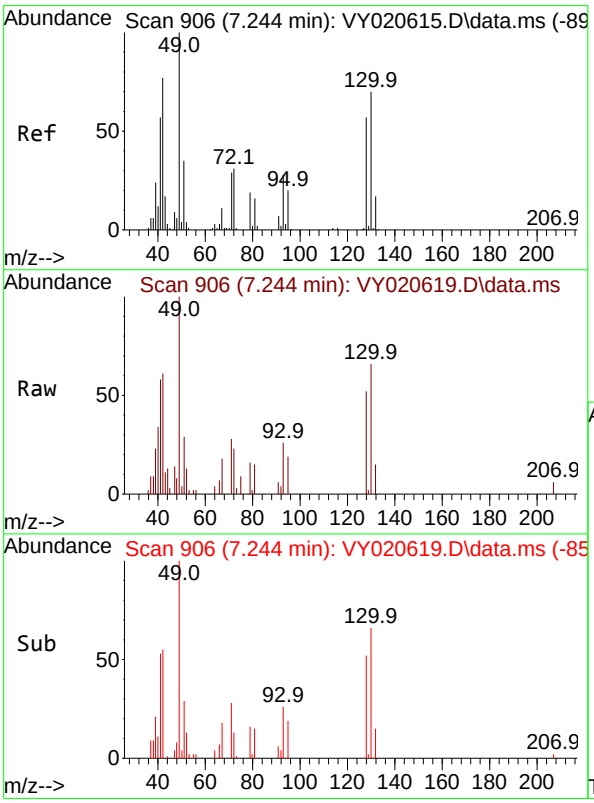

#27
cis-1,2-Dichloroethene
Concen: 5.109 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 96 Resp: 13806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 165.8 | 0.0 | 306.2 |
| 98 | 64.0 | 0.0 | 127.2 |

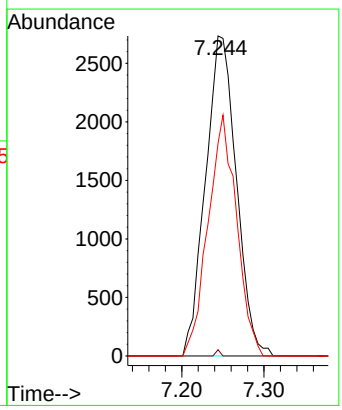


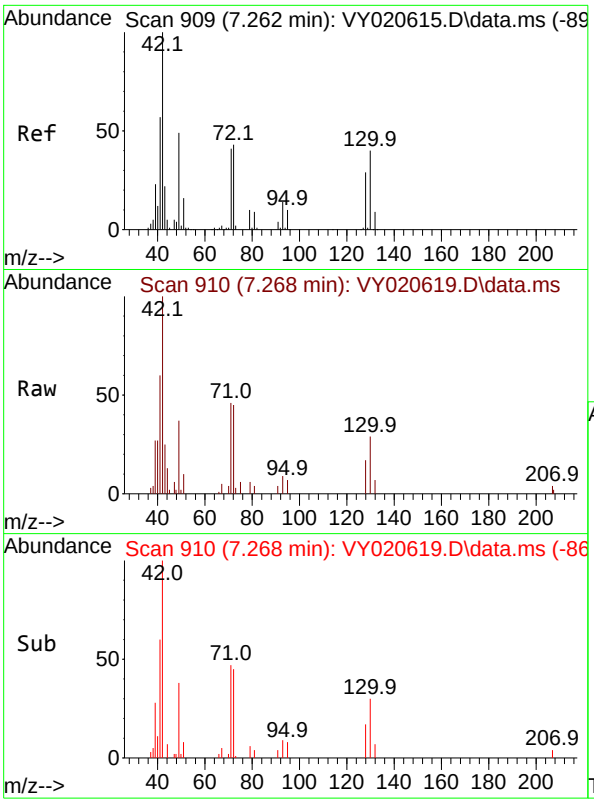




#28
Bromochloromethane
Concen: 4.844 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 49 Resp: 7129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.3 | 0.0 | 3.8 |
| 130 | 69.5 | 58.3 | 87.5 |



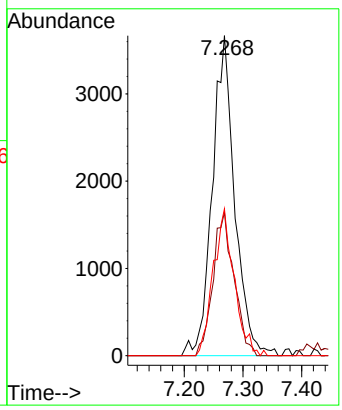


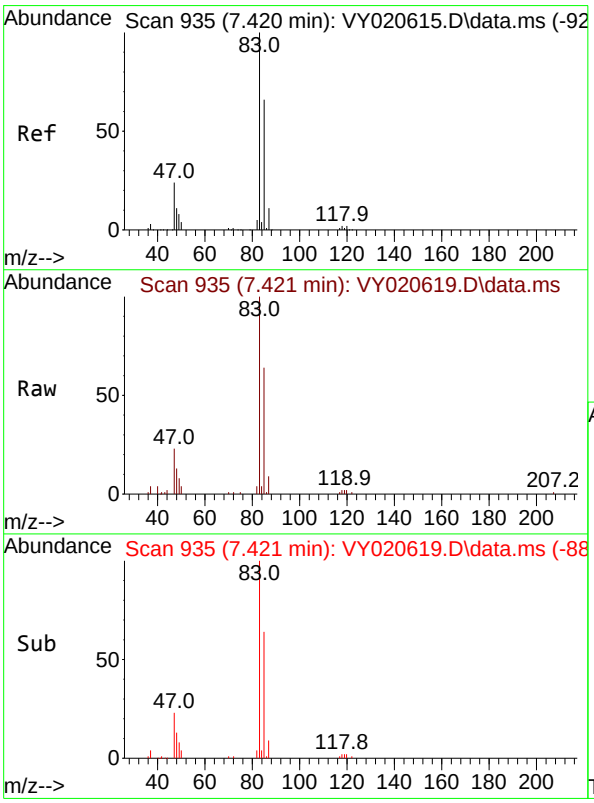

#29
Tetrahydrofuran
Concen: 22.669 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 42 Resp: 9729

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.1 | 34.0 | 51.0 |
| 71 | 42.8 | 31.6 | 47.4 |

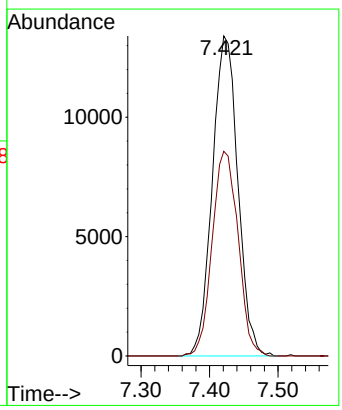


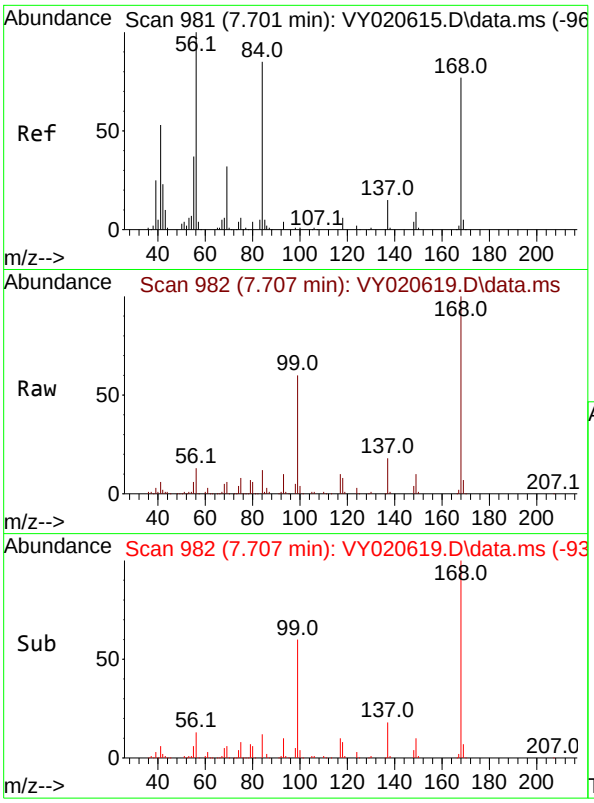




#30
Chloroform
Concen: 2.901 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 83 Resp: 34563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.9 | 52.7 | 79.1 |



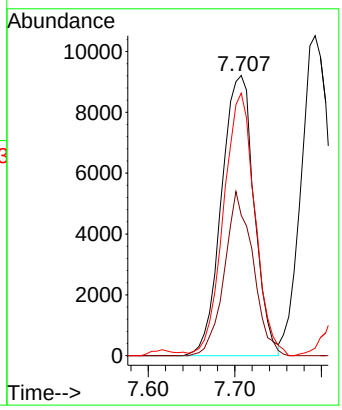


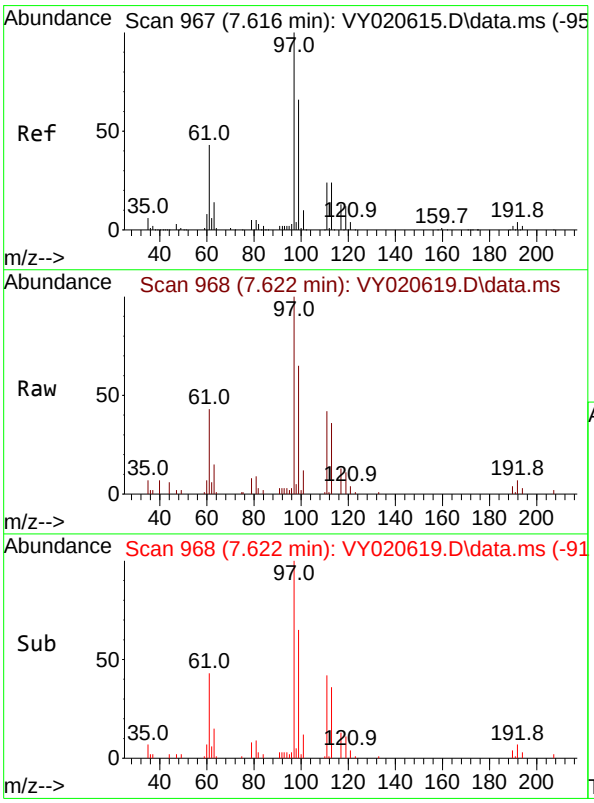

#31
Cyclohexane
Concen: 5.779 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 24108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 50.1 | 25.4 | 38.0# |
| 84 | 92.6 | 68.3 | 102.5 |

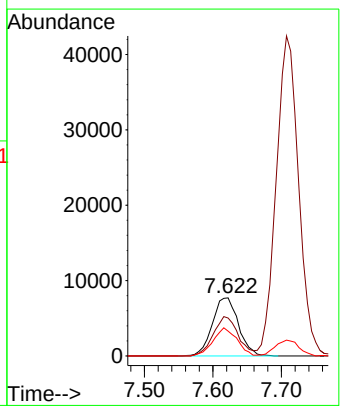


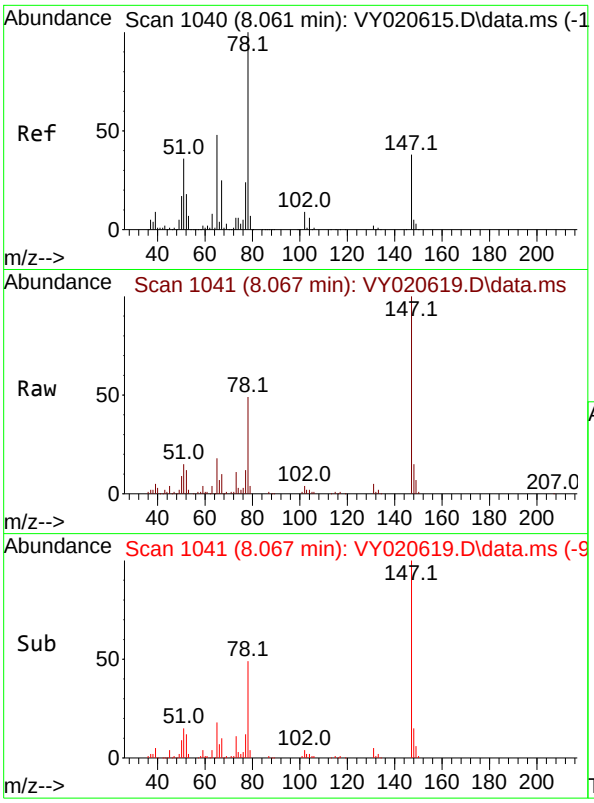




#32
1,1,1-Trichloroethane
Concen: 5.082 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 97 Resp: 20368

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 44.4 | 34.7 | 52.1 |



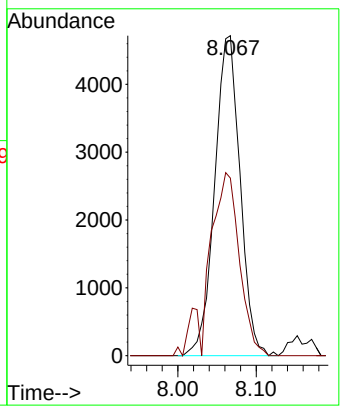


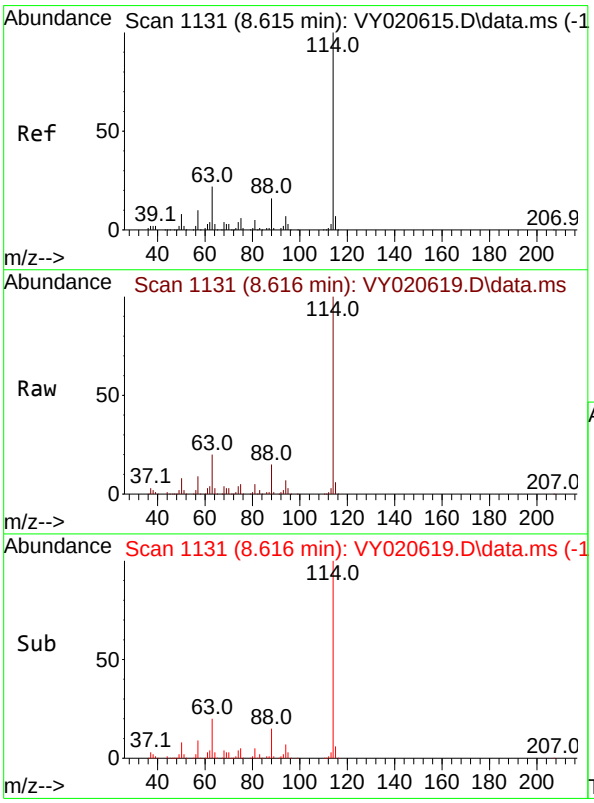

#33
1,2-Dichloroethane-d4
Concen: 5.810 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 65 Resp: 10628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 68.2 | 0.0 | 108.0 |

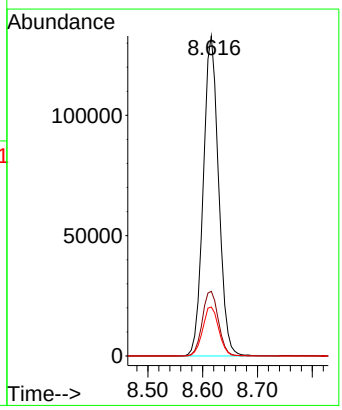


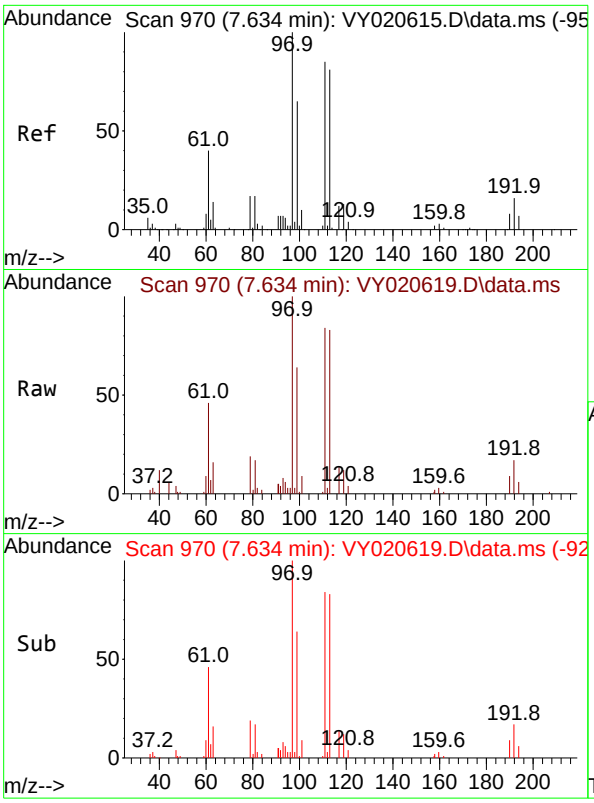




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:114 Resp: 257526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.2 | 0.0 | 44.0 |
| 88 | 15.3 | 0.0 | 32.8 |



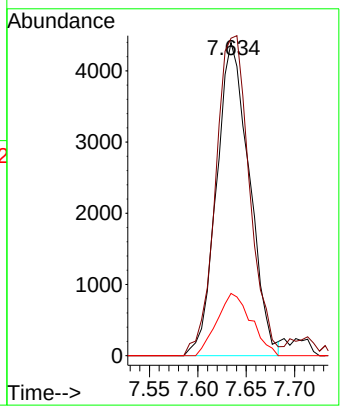


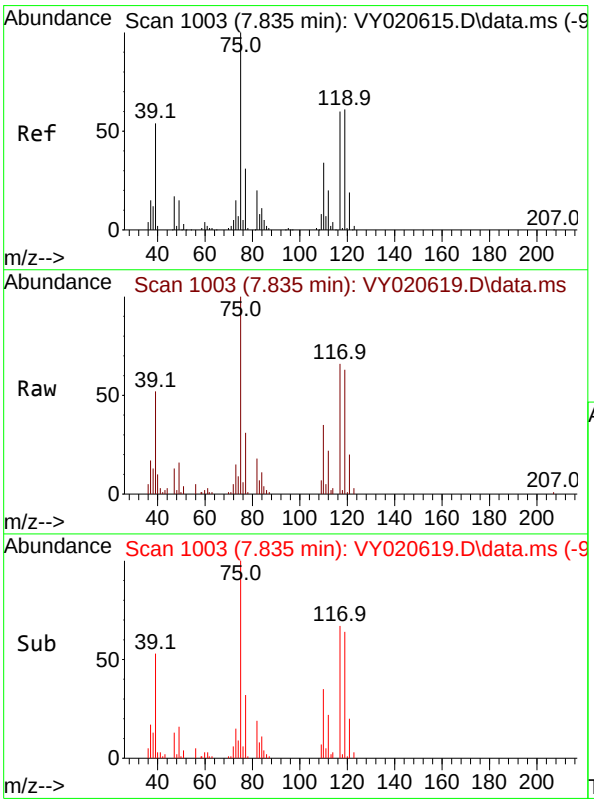

#35
Dibromofluoromethane
Concen: 5.726 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:113 Resp: 10393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 105.2 | 82.9 | 124.3 |
| 192 | 20.7 | 15.7 | 23.5 |

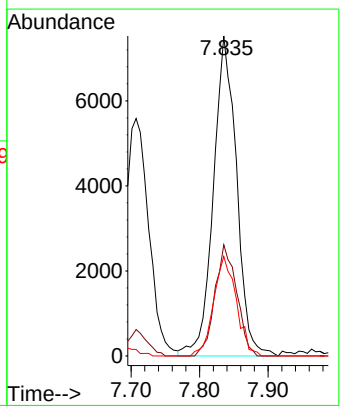


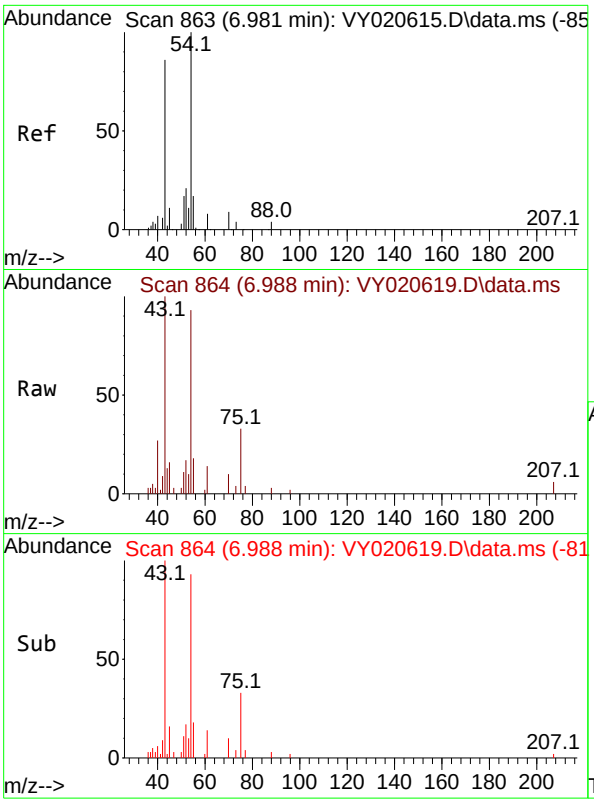




#36
1,1-Dichloropropene
Concen: 5.352 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 75 Resp: 17712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 32.5 | 16.8 | 50.4 |
| 77 | 30.3 | 25.0 | 37.6 |



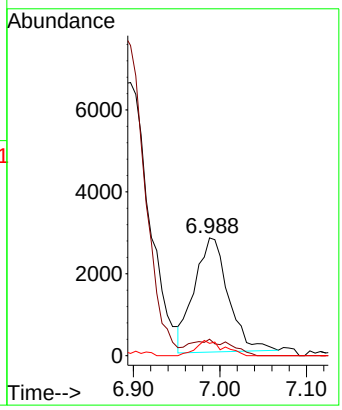


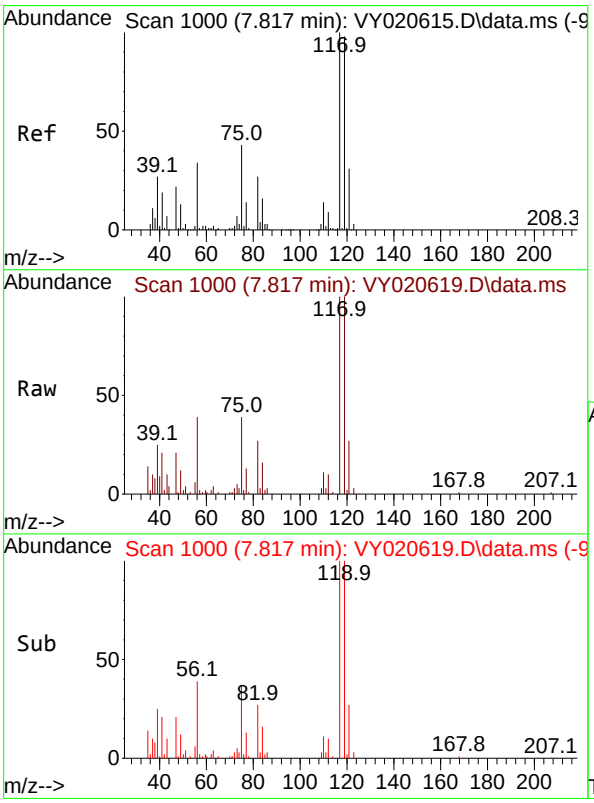

#37
Ethyl Acetate
Concen: 4.890 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 7613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.0 | 11.0 | 16.4 |
| 70 | 10.7 | 7.9 | 11.9 |

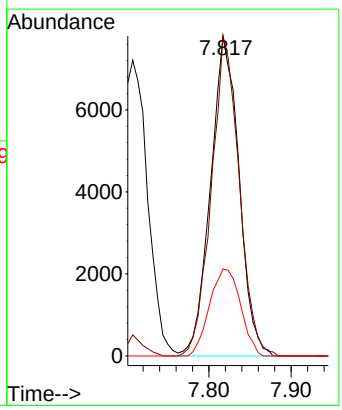


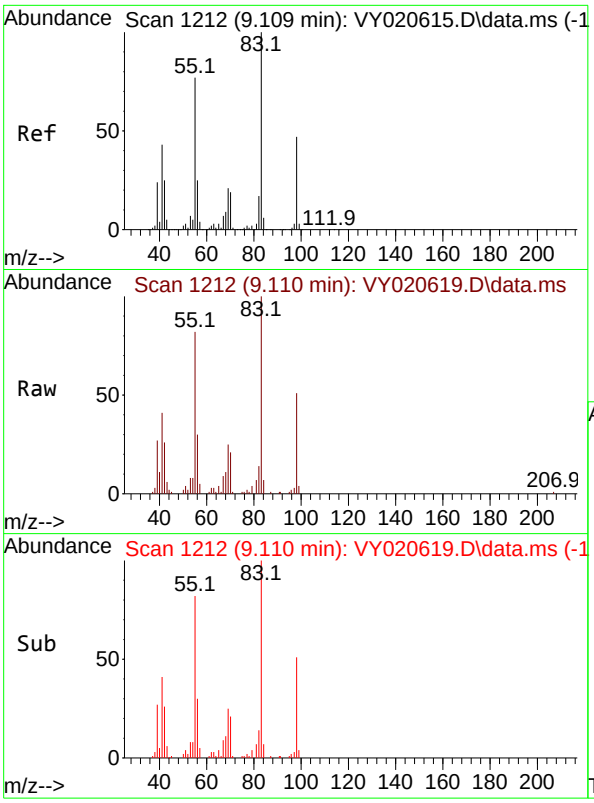




#38
Carbon Tetrachloride
Concen: 5.132 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:117 Resp: 18792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 100.1 | 78.3 | 117.5 |
| 121 | 27.2 | 25.1 | 37.7 |



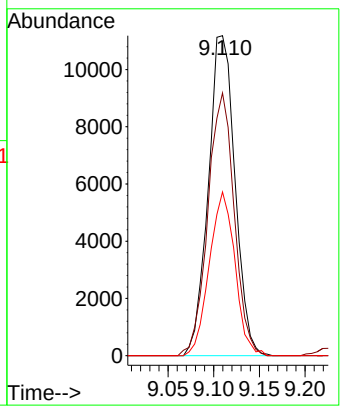


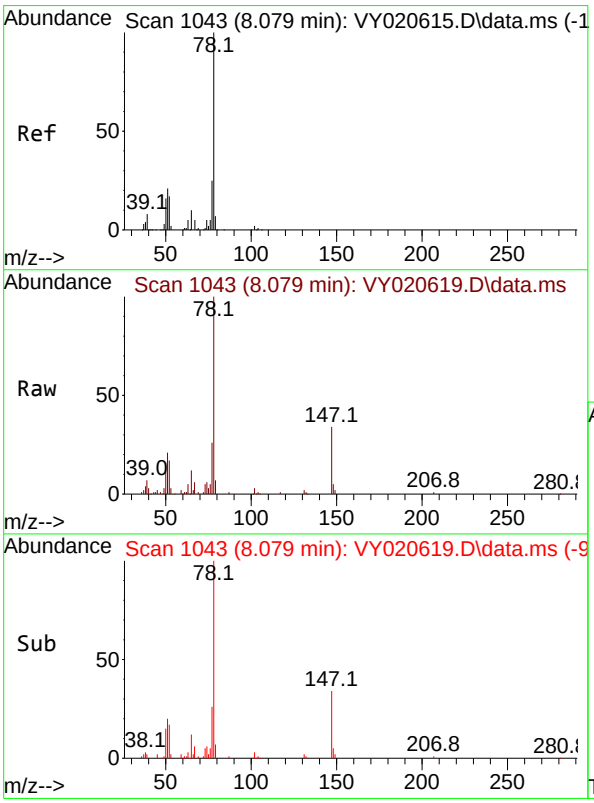

#39
Methylcyclohexane
Concen: 5.273 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 22745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 82.1 | 61.4 | 92.0 |
| 98 | 51.2 | 37.3 | 55.9 |

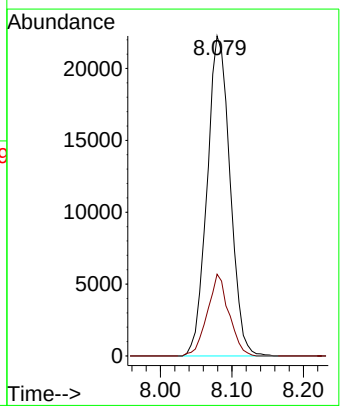


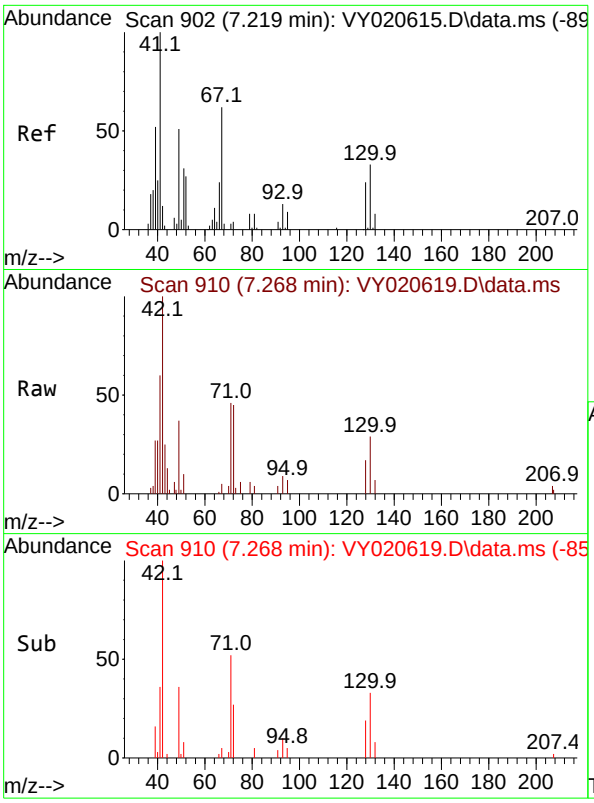




#40
Benzene
Concen: 5.117 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 78 Resp: 49636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.6 | 20.1 | 30.1 |



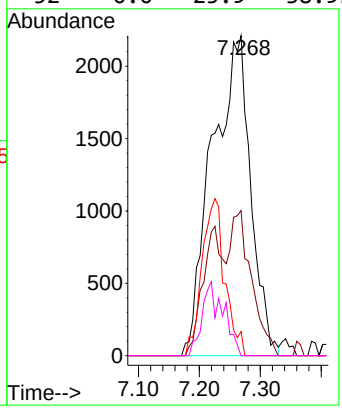


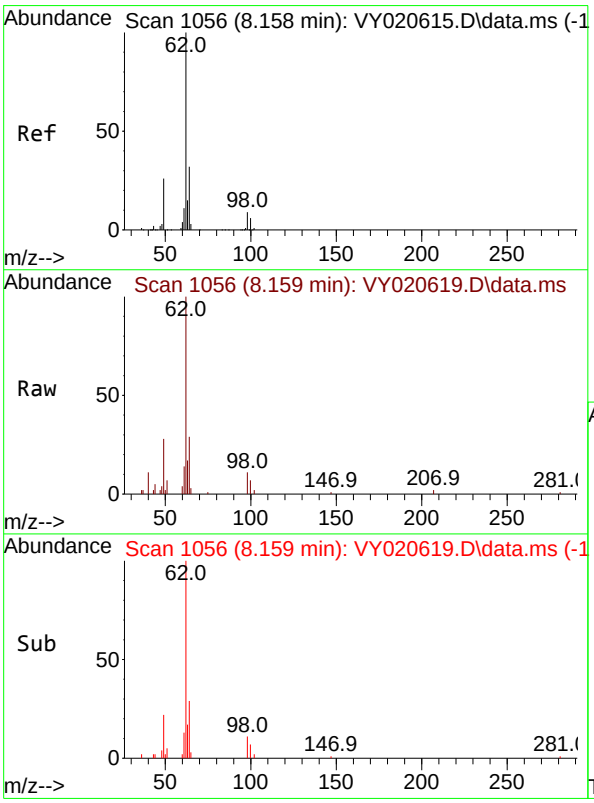

#41
Methacrylonitrile
Concen: 11.773 ug/l
RT: 7.268 min Scan# 9
Delta R.T. 0.049 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 41 Resp: 9689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 25.1 | 53.6 | 80.4# |
| 67 | 0.0 | 62.0 | 93.0# |
| 52 | 0.0 | 25.9 | 38.9# |

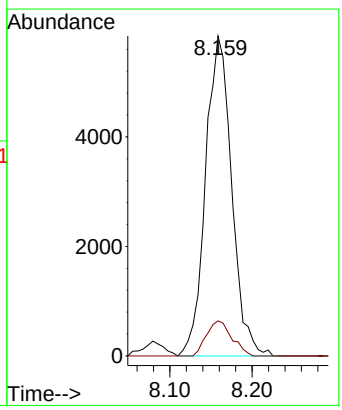


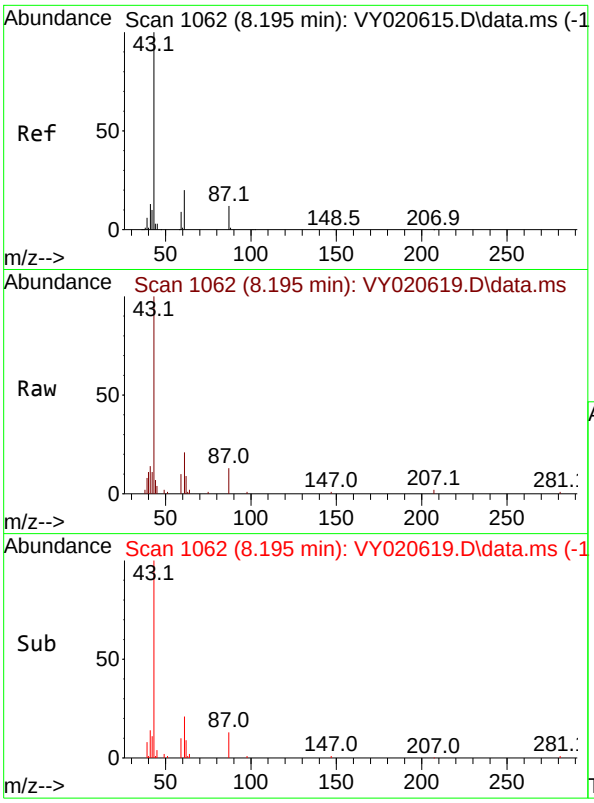




#42
1,2-Dichloroethane
Concen: 5.020 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 62 Resp: 12917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.6 | 0.0 | 18.0 |



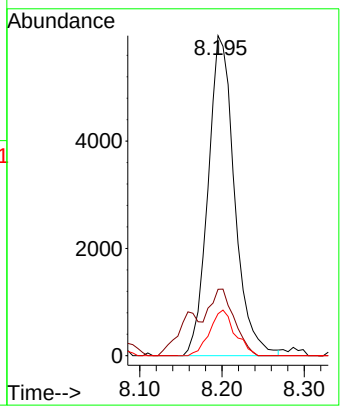


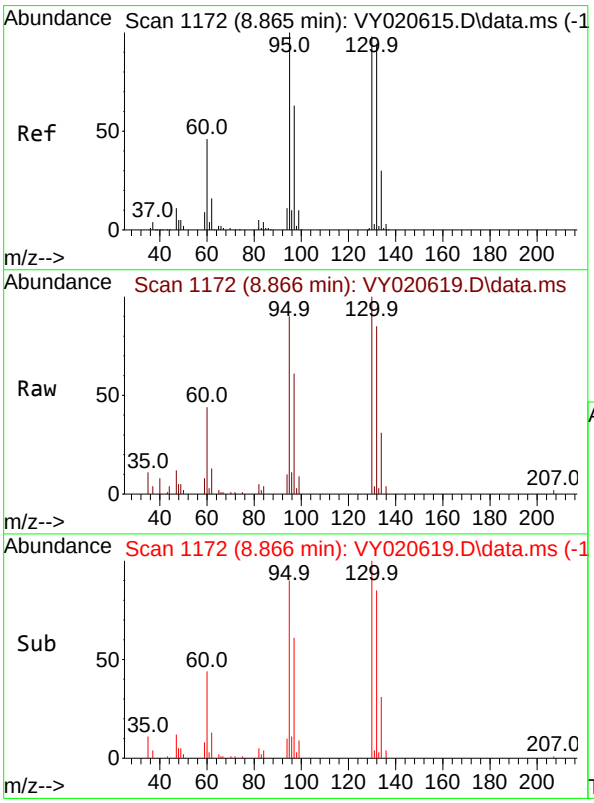

#43
Isopropyl Acetate
Concen: 4.533 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 13361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 19.4 | 23.8 | 35.6# |
| 87 | 13.6 | 10.2 | 15.4 |

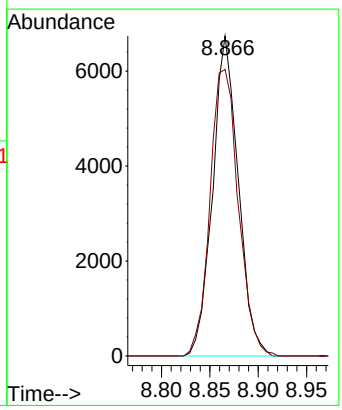


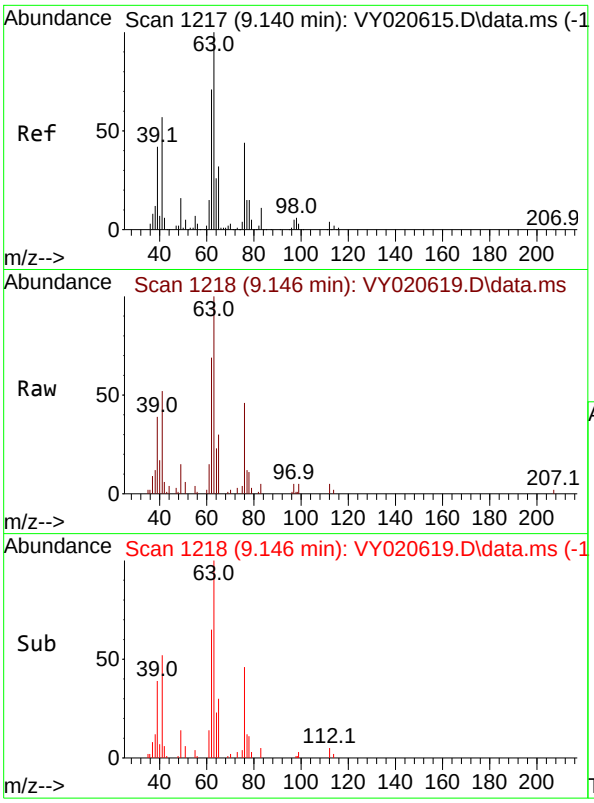




#44
Trichloroethene
Concen: 5.195 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:130 Resp: 12384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 89.5 | 0.0 | 203.2 |



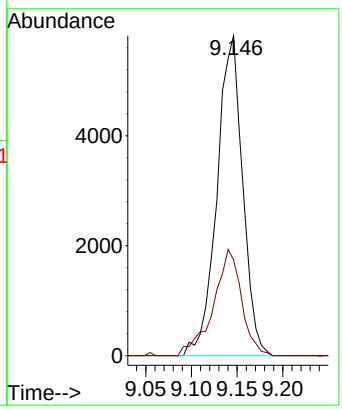


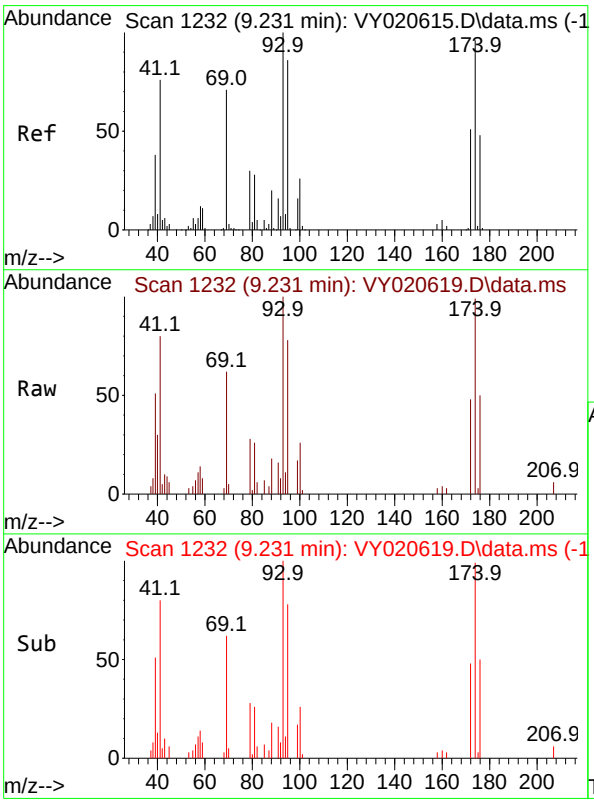

#45
1,2-Dichloropropane
Concen: 5.019 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 63 Resp: 11378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.0 | 25.9 | 38.9 |

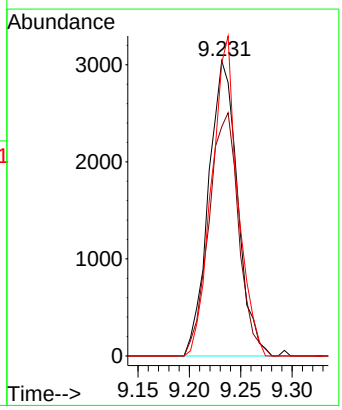


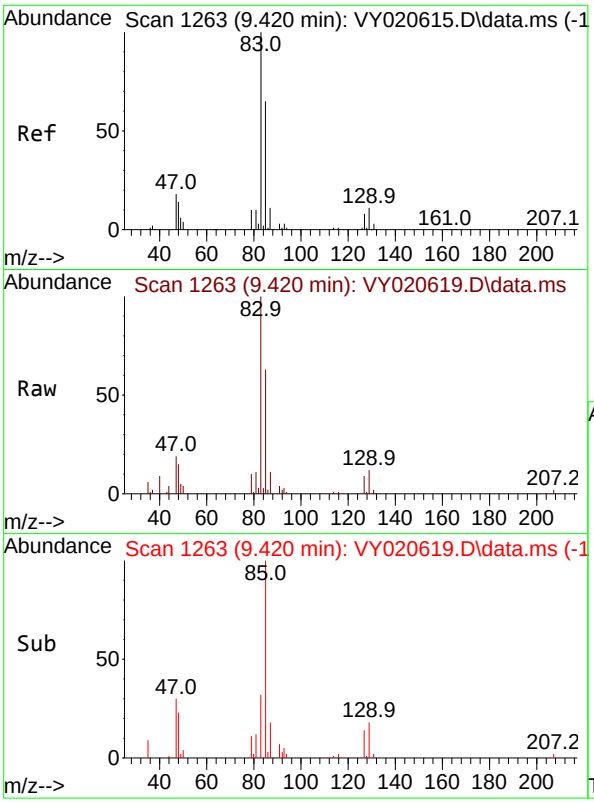




#46
Dibromomethane
Concen: 4.978 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 93 Resp: 5965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.5 | 66.7 | 100.1 |
| 174 | 97.0 | 77.8 | 116.6 |



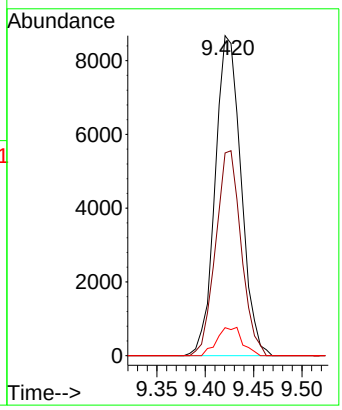


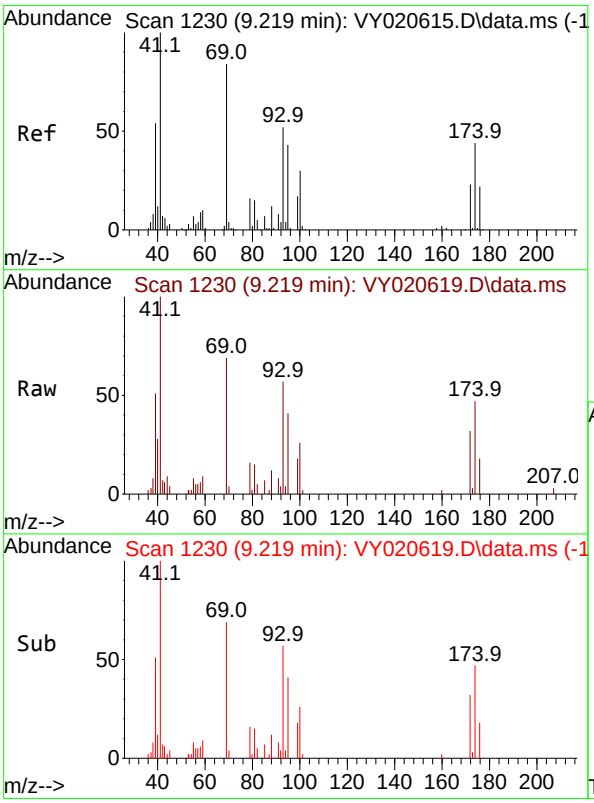

#47
Bromodichloromethane
Concen: 4.979 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 16115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 52.1 | 78.1 |
| 127 | 8.7 | 6.7 | 10.1 |

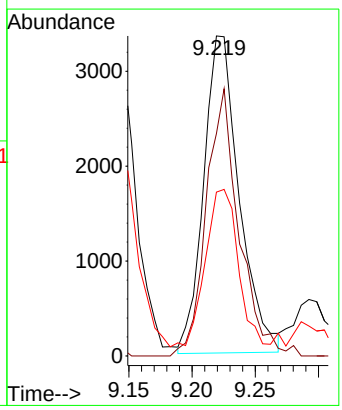


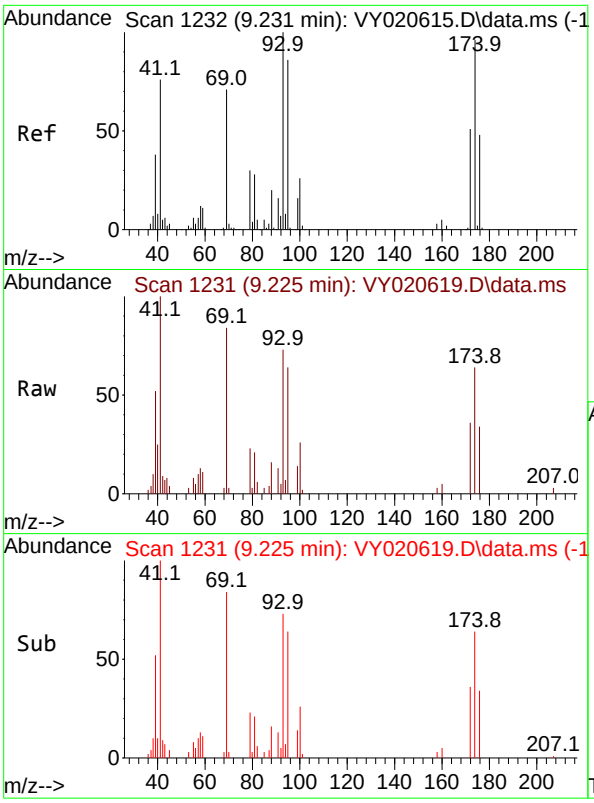




#48
Methyl methacrylate
Concen: 4.671 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 41 Resp: 6545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 77.6 | 67.2 | 100.8 |
| 39 | 47.3 | 42.2 | 63.4 |



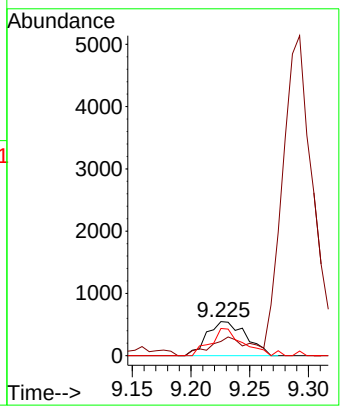


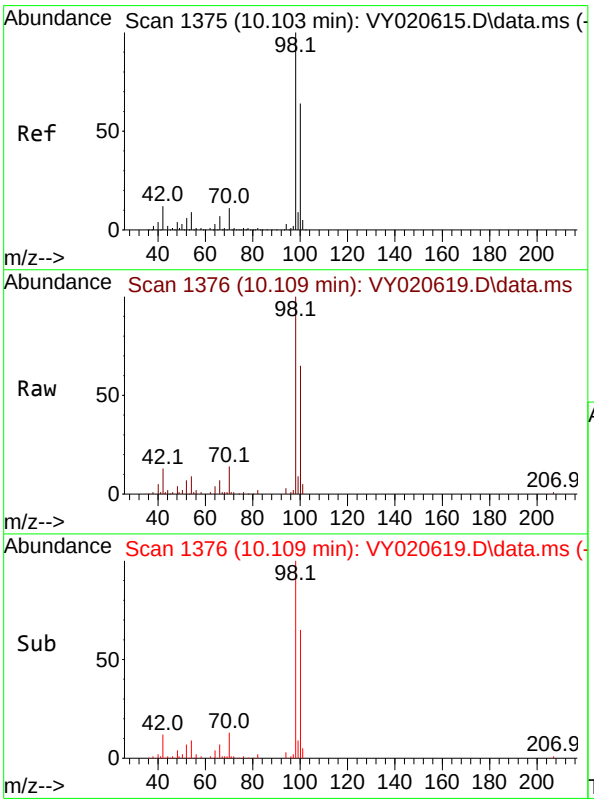

#49
1,4-Dioxane
Concen: 92.278 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 88 Resp: 1268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 51.4 | 27.6 | 41.4# |
| 58 | 66.2 | 61.7 | 92.5 |

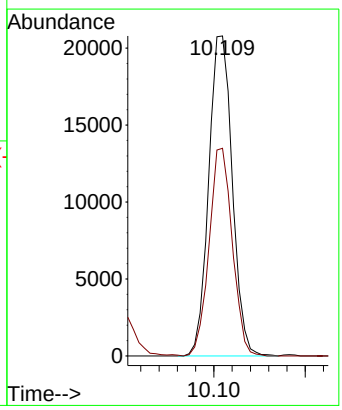


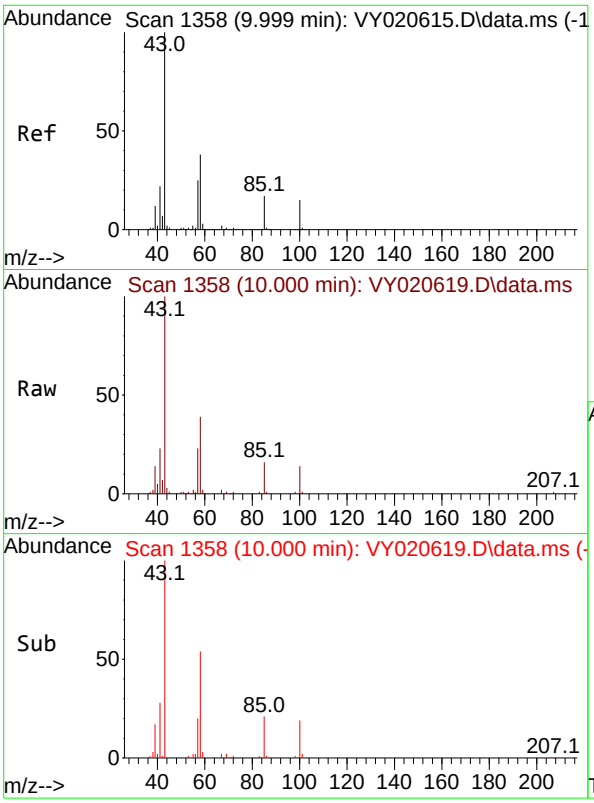




#50
Toluene-d8
Concen: 5.858 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 98 Resp: 37211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.8 | 52.1 | 78.1 |



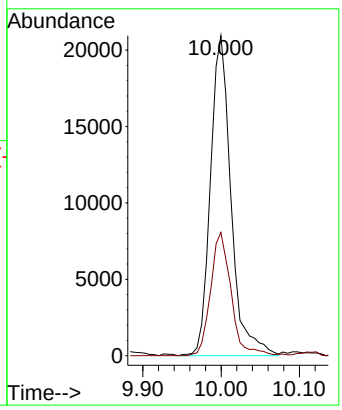


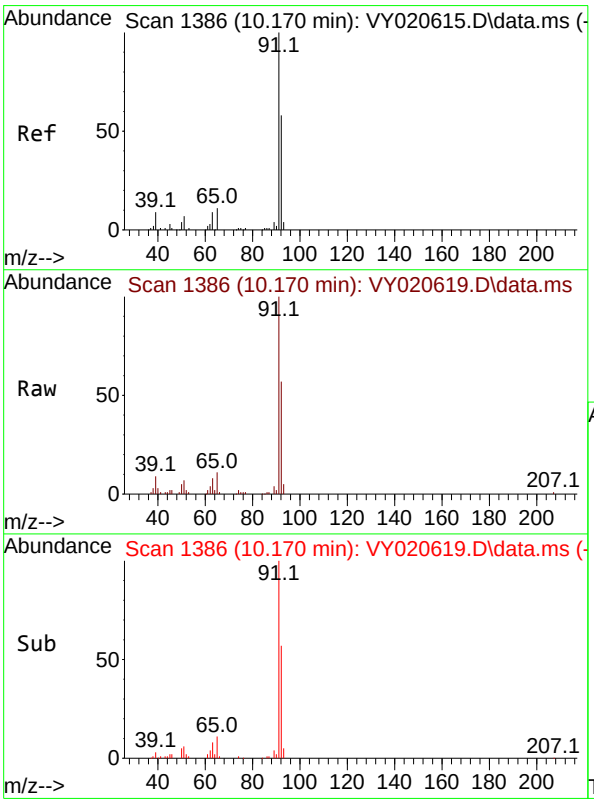

#51
4-Methyl-2-Pentanone
Concen: 24.607 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 38280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.3 | 31.4 | 47.2 |

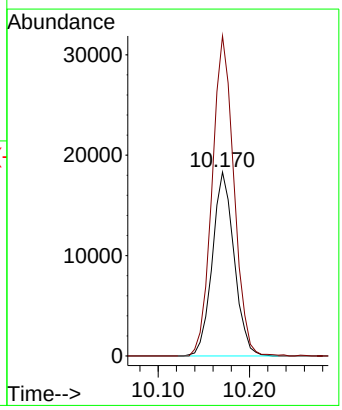


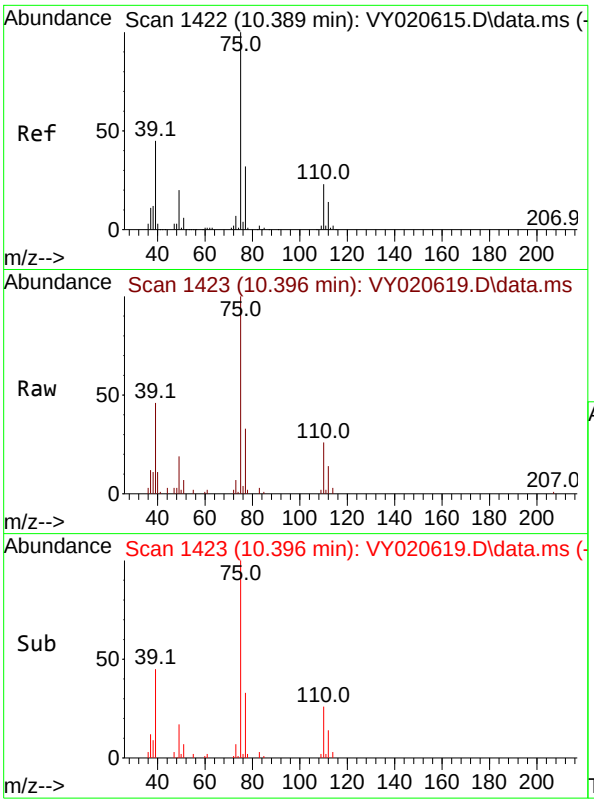




#52
Toluene
Concen: 5.025 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 92 Resp: 30294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.2 | 137.4 | 206.0 |



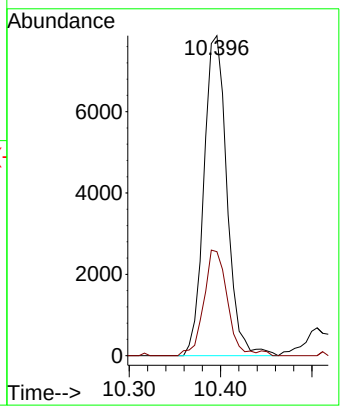


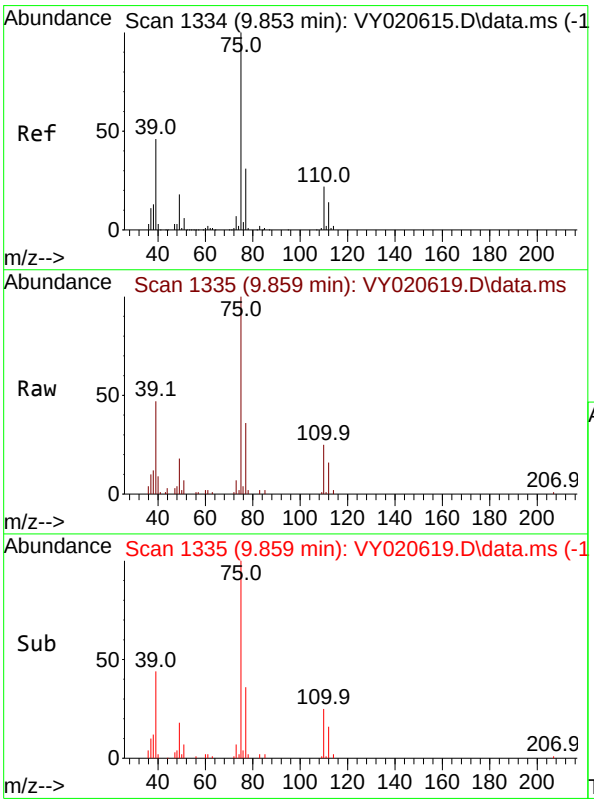

#53
t-1,3-Dichloropropene
Concen: 4.558 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 75 Resp: 13747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 25.4 | 38.2 |

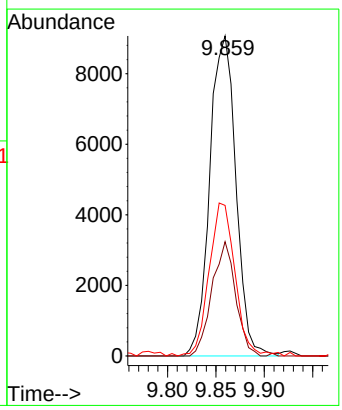


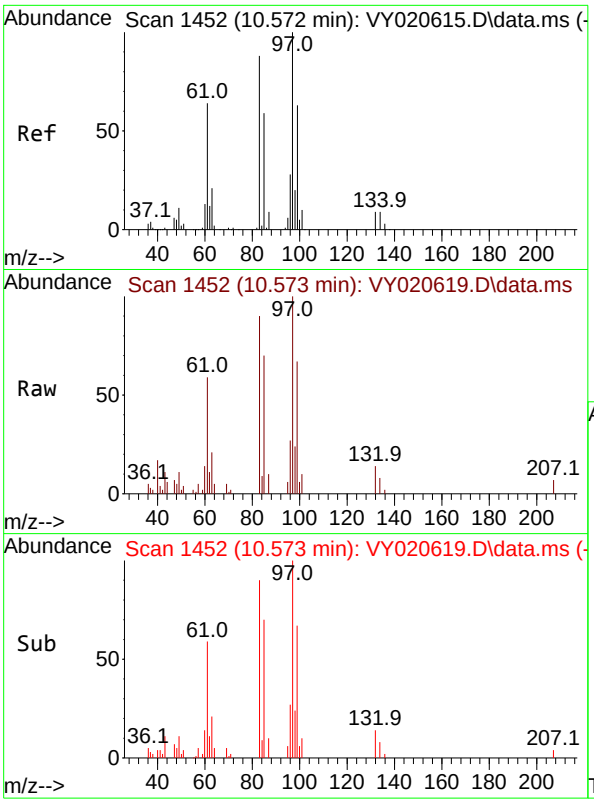




#54
cis-1,3-Dichloropropene
Concen: 4.764 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 75 Resp: 17025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 35.7 | 24.6 | 36.8 |
| 39 | 47.1 | 36.4 | 54.6 |



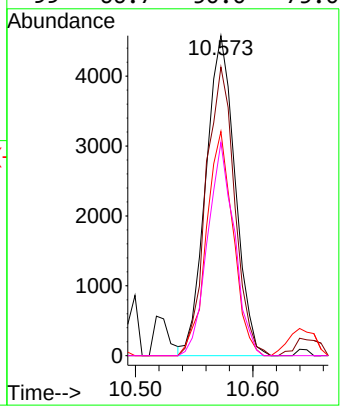


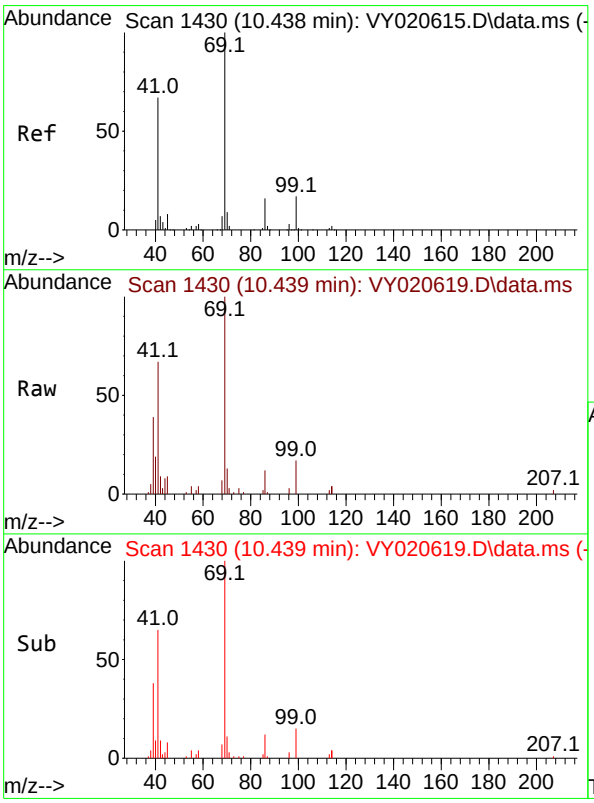

#55
1,1,2-Trichloroethane
Concen: 5.009 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 97 Resp: 7935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 90.2 | 70.4 | 105.6 |
| 85 | 70.1 | 47.2 | 70.8 |
| 99 | 66.7 | 50.0 | 75.0 |

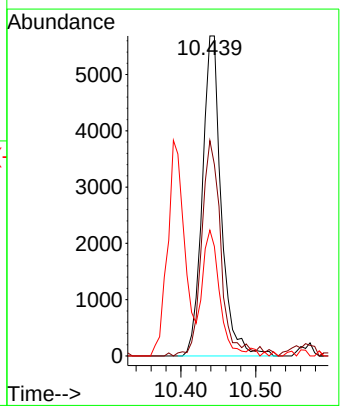


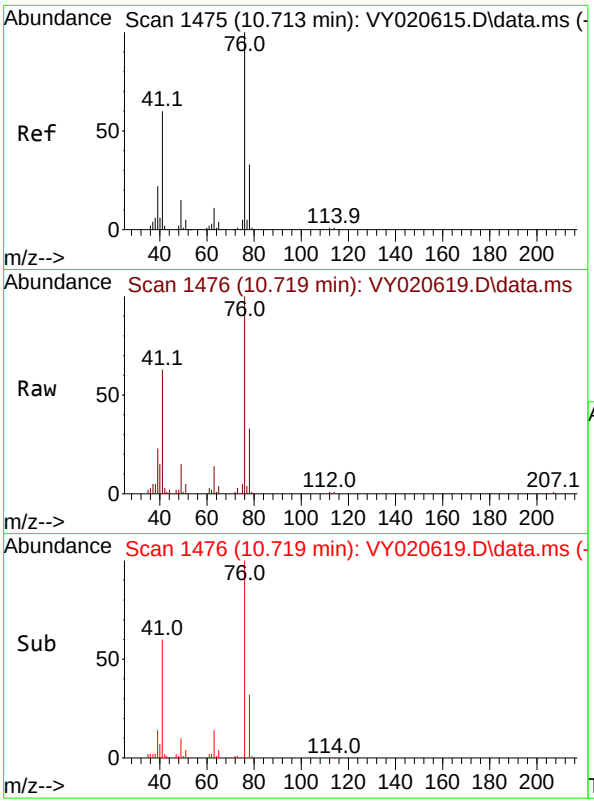




#56
Ethyl methacrylate
Concen: 4.351 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 69 Resp: 10000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 67.9 | 54.0 | 81.0 |
| 39 | 32.8 | 27.9 | 41.9 |



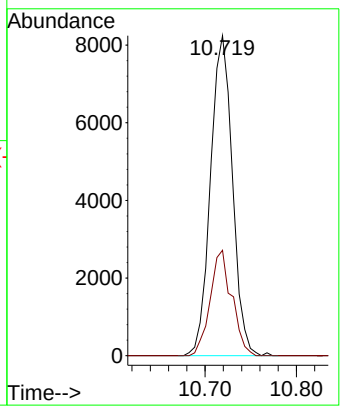


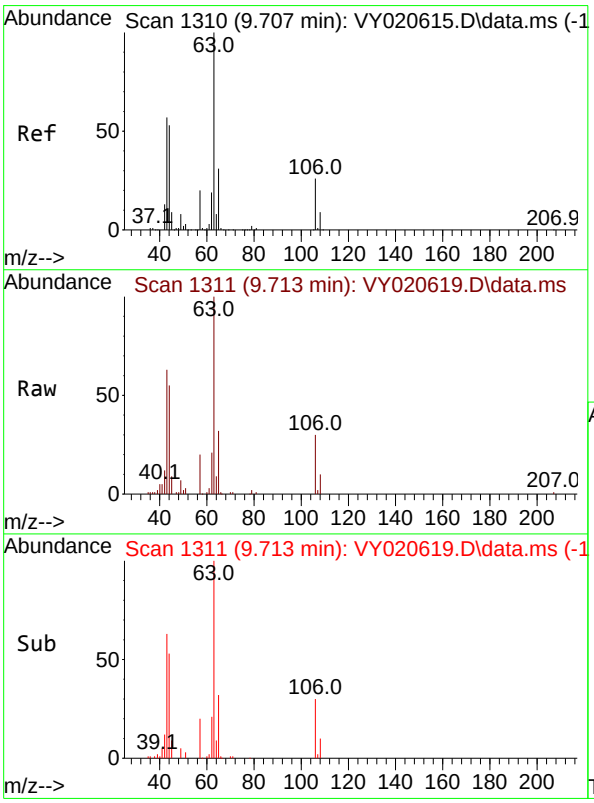

#57
1,3-Dichloropropane
Concen: 4.870 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 76 Resp: 13754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 25.8 | 38.8 |

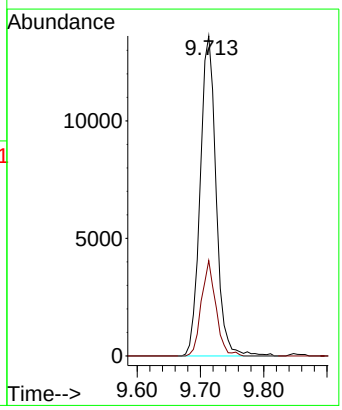


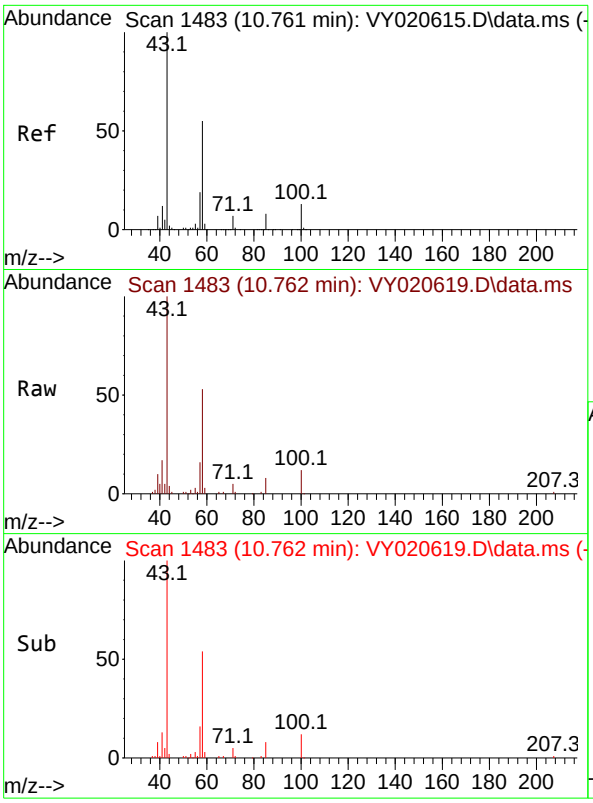




#58
2-Chloroethyl Vinyl ether
Concen: 24.686 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 63 Resp: 23872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.1 | 21.5 | 32.3 |



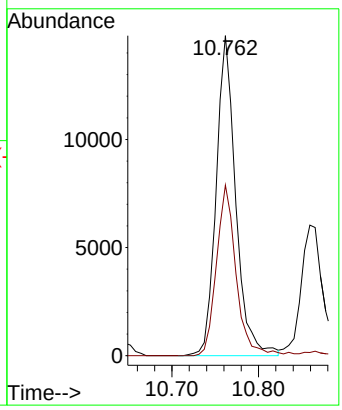


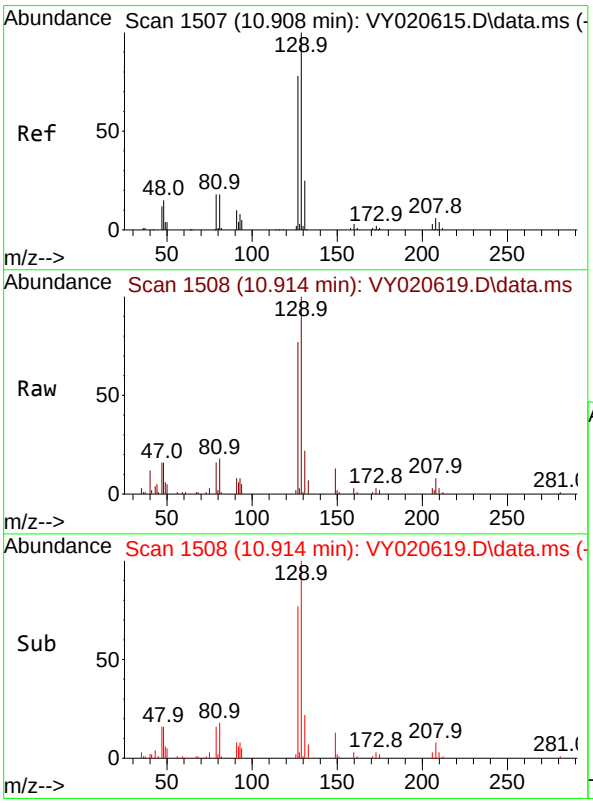

#59
2-Hexanone
Concen: 23.192 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 23164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 53.5 | 27.2 | 81.6 |

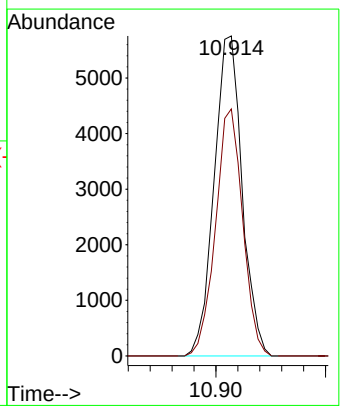


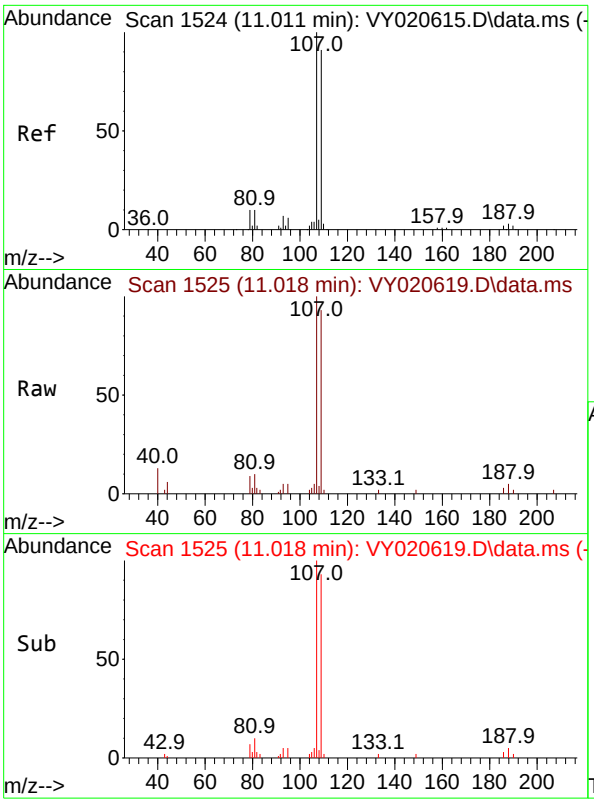




#60
Dibromochloromethane
Concen: 4.818 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:129 Resp: 10207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 74.9 | 38.1 | 114.3 |



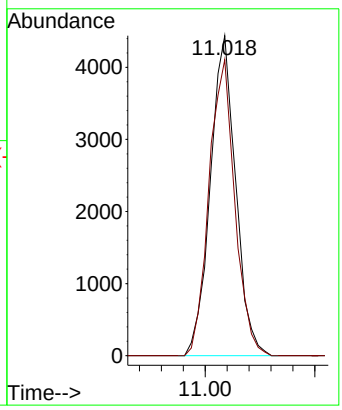


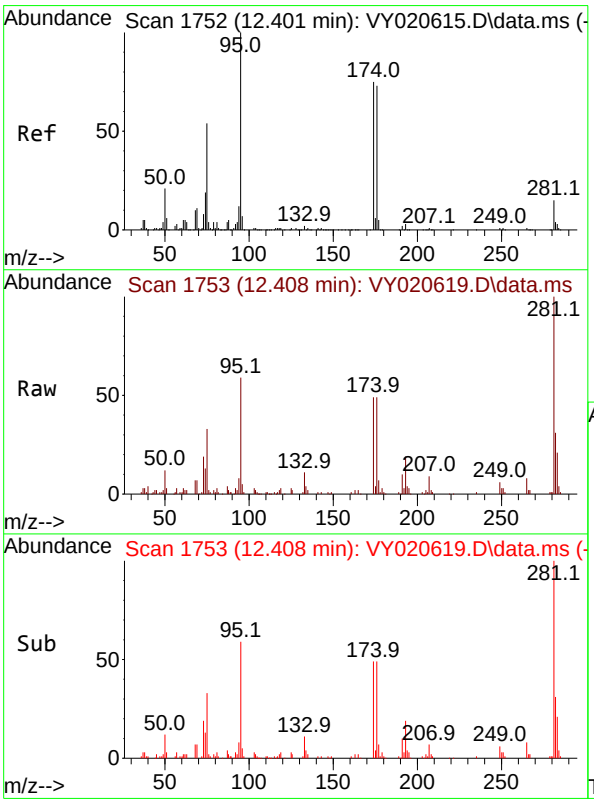

#61
1,2-Dibromoethane
Concen: 4.847 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:107 Resp: 7143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.9 | 75.4 | 113.2 |

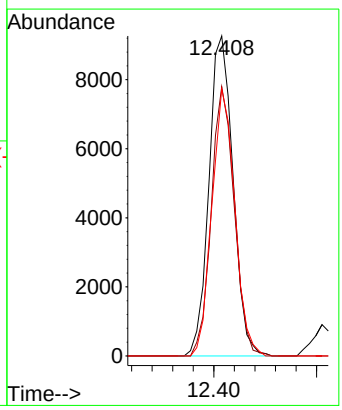


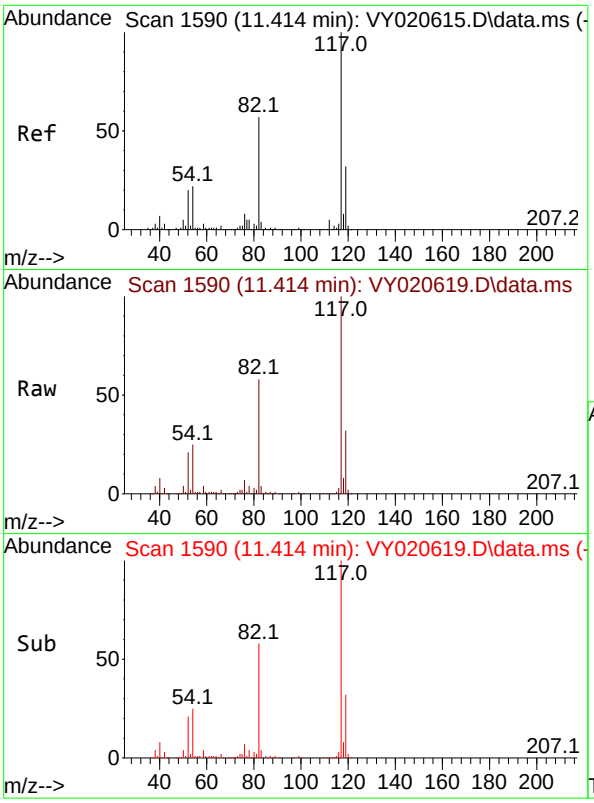




#62
4-Bromofluorobenzene
Concen: 6.066 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 95 Resp: 15073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 80.0 | 0.0 | 161.8 |
| 176 | 79.5 | 0.0 | 156.6 |



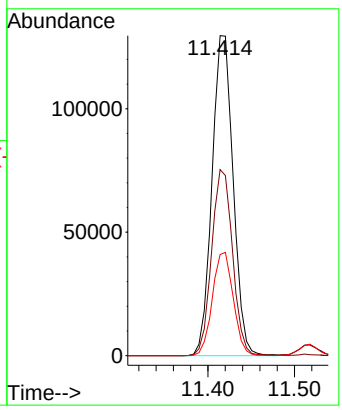


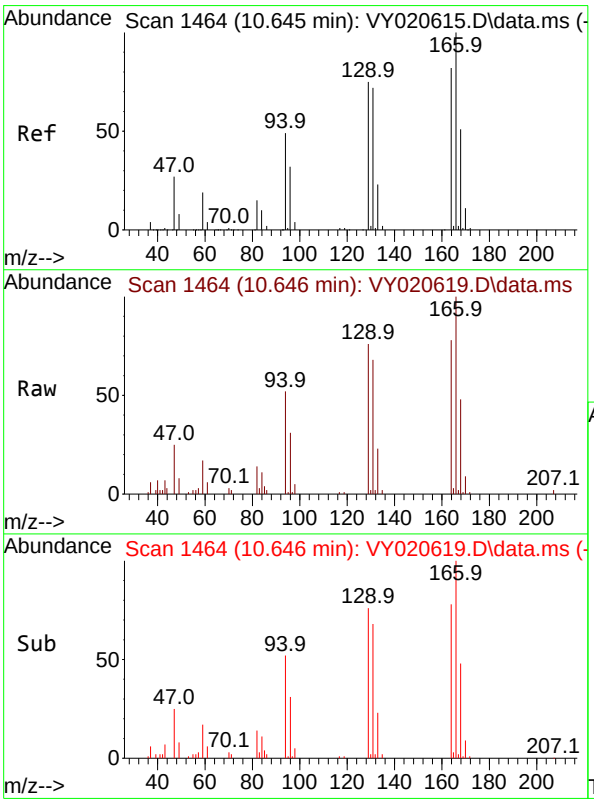

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:117 Resp: 219786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.1 | 45.8 | 68.6 |
| 119 | 31.6 | 25.3 | 37.9 |

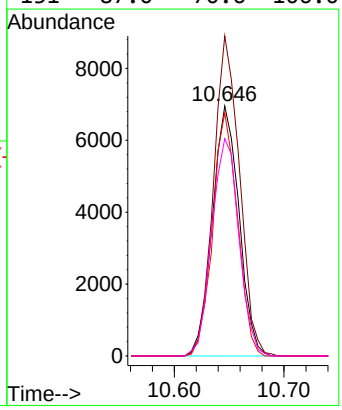


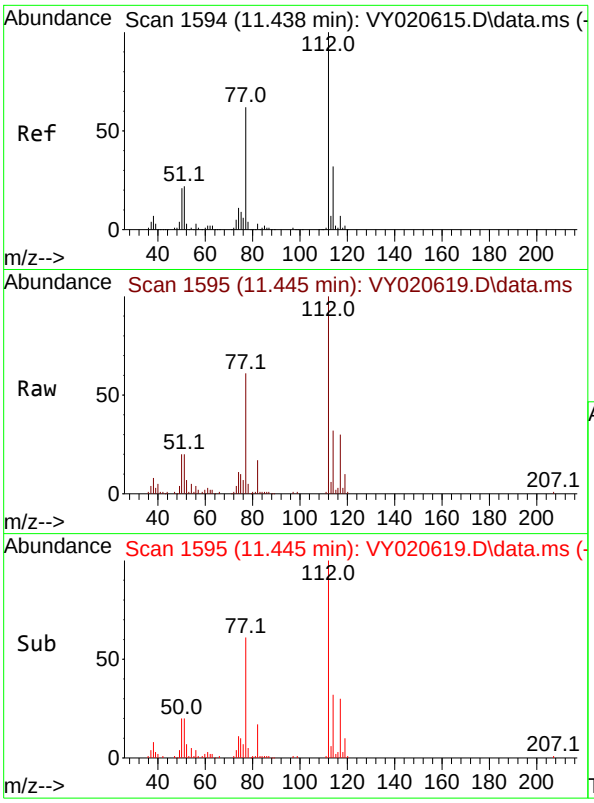




#64
Tetrachloroethene
Concen: 5.663 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:164 Resp: 11707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.0 | 97.9 | 146.9 |
| 129 | 97.3 | 73.4 | 110.0 |
| 131 | 87.0 | 70.6 | 106.0 |



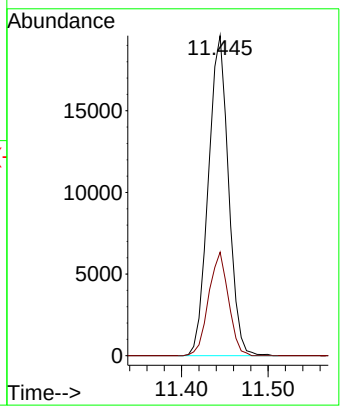


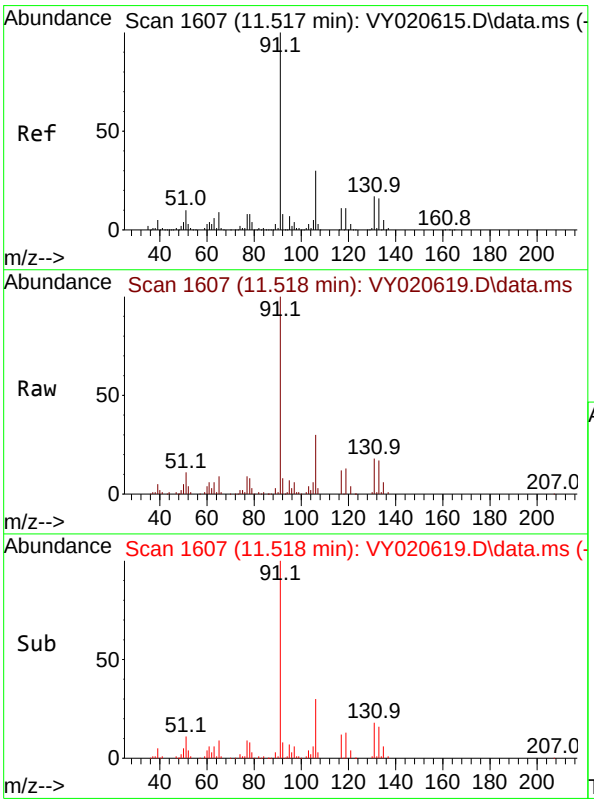

#65
Chlorobenzene
Concen: 5.154 ug/l
RT: 11.445 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:112 Resp: 31674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 26.0 | 39.0 |

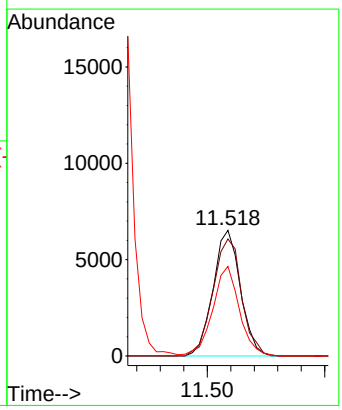


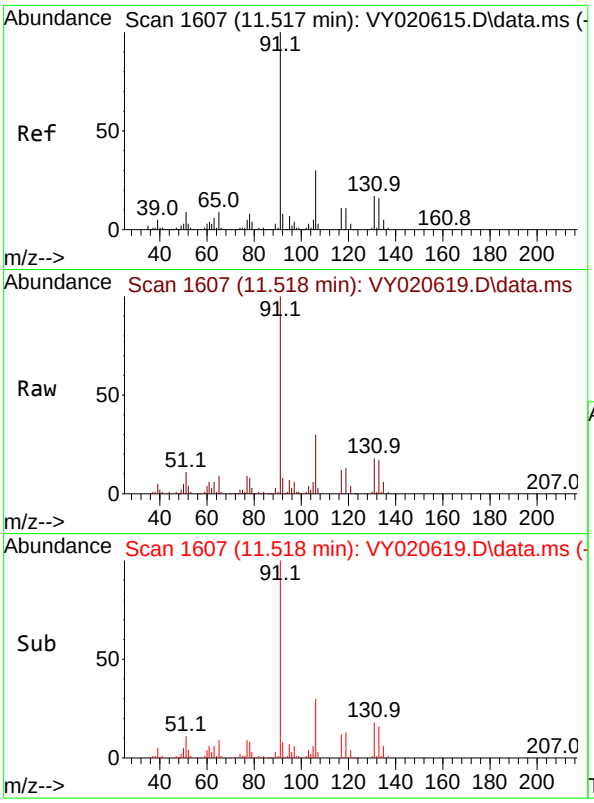




#66
1,1,1,2-Tetrachloroethane
Concen: 5.009 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:131 Resp: 10526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.9 | 46.8 | 140.3 |
| 119 | 69.6 | 31.8 | 95.3 |



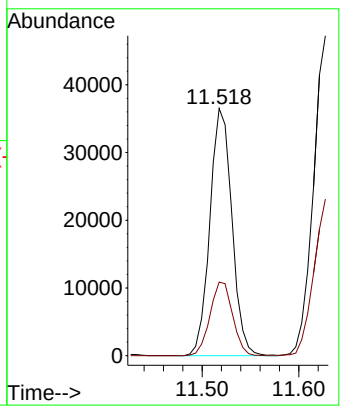


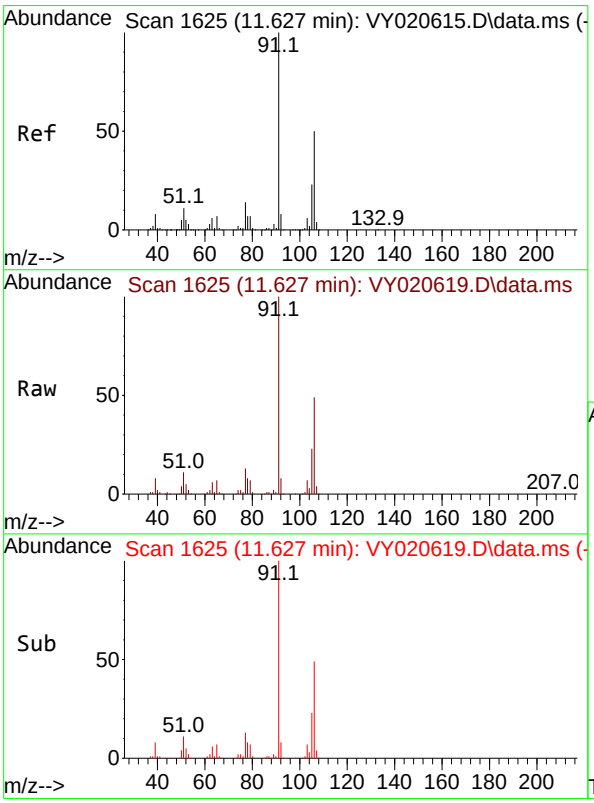

#67
Ethyl Benzene
Concen: 5.103 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 57861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 29.8 | 23.9 | 35.9 |

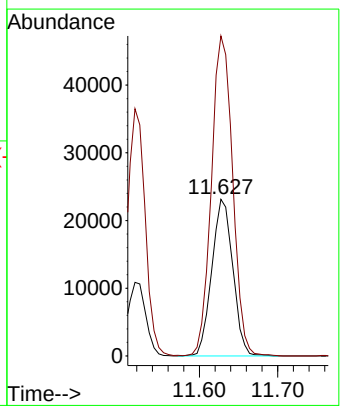


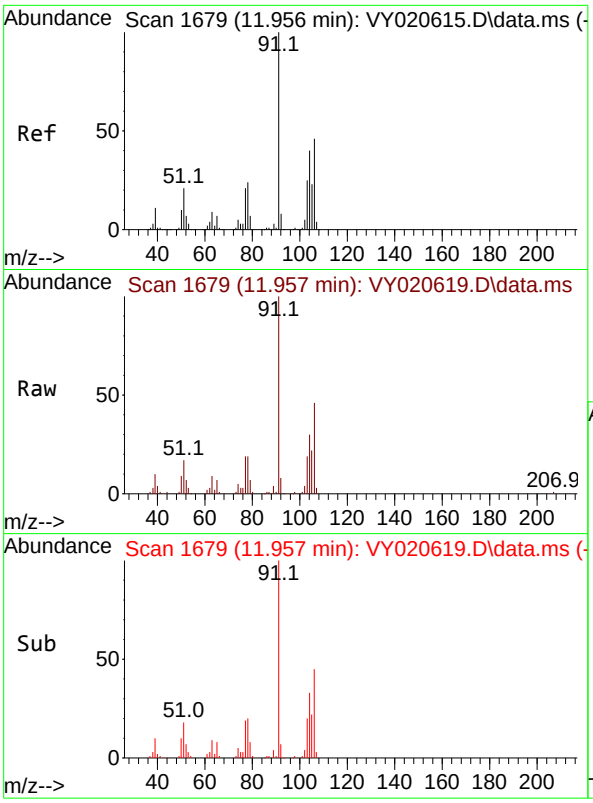




#68
m/p-Xylenes
Concen: 10.262 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:106 Resp: 43257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.6 | 165.0 | 247.4 |



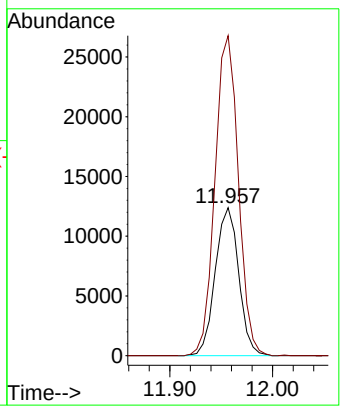


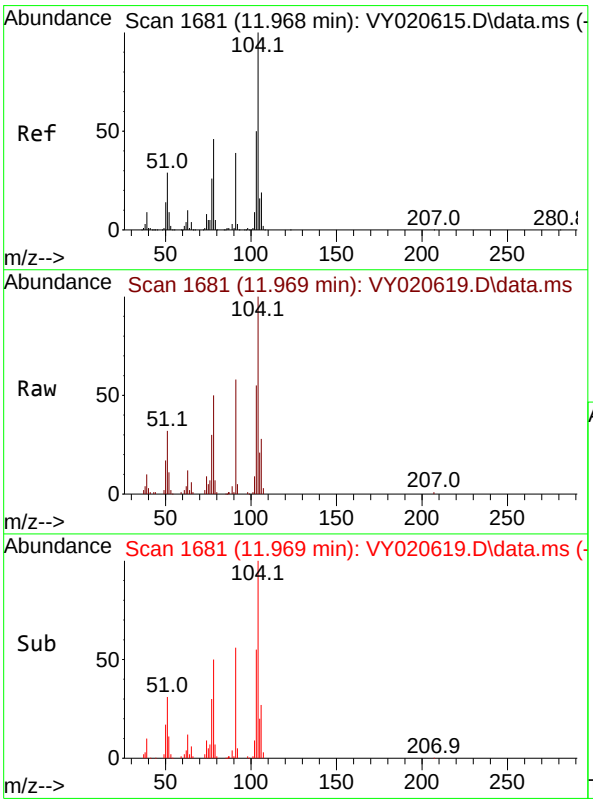

#69
o-Xylene
Concen: 4.993 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:106 Resp: 19639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.2 | 108.4 | 325.2 |

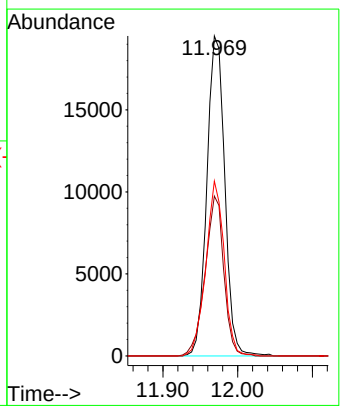


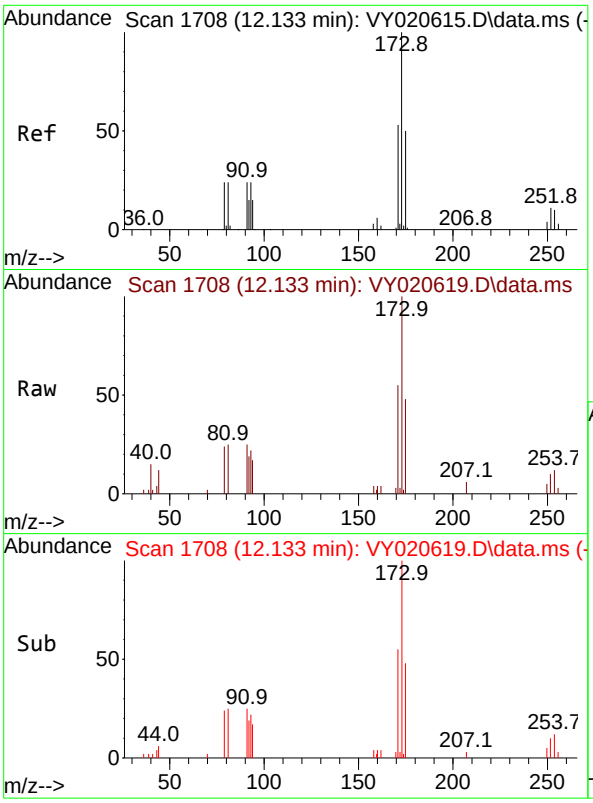




#70
Styrene
Concen: 4.945 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:104 Resp: 32495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.0 | 41.6 | 62.4 |
| 103 | 55.9 | 43.7 | 65.5 |



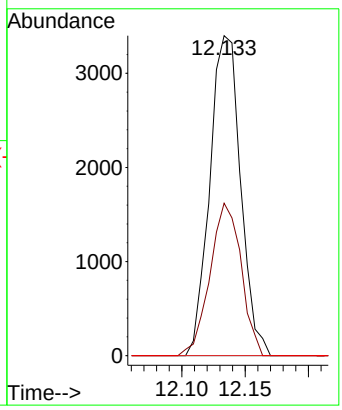


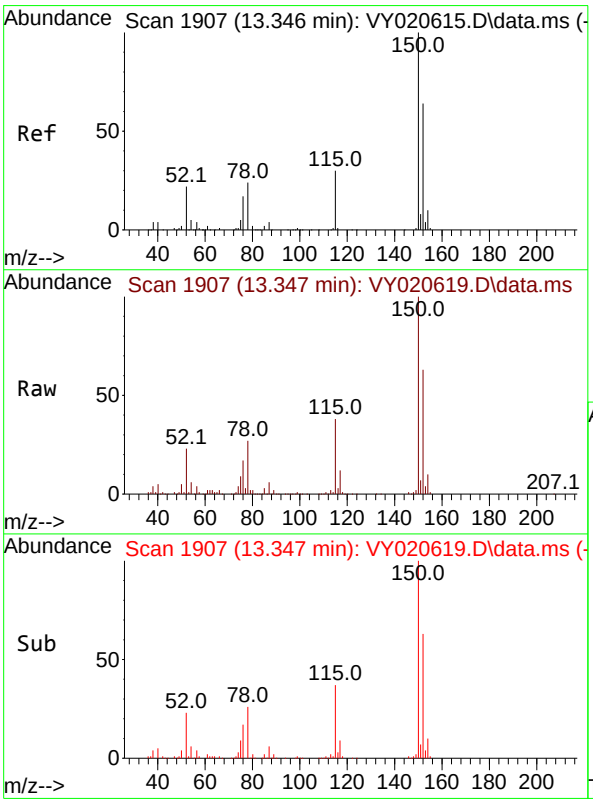

#71
Bromoform
Concen: 4.877 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:173 Resp: 5762

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.1 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |

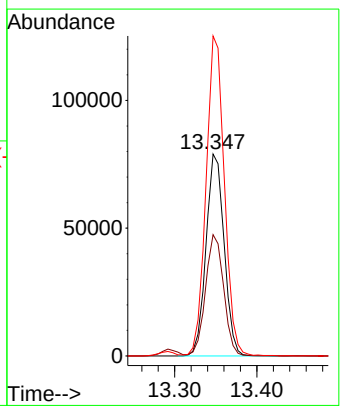


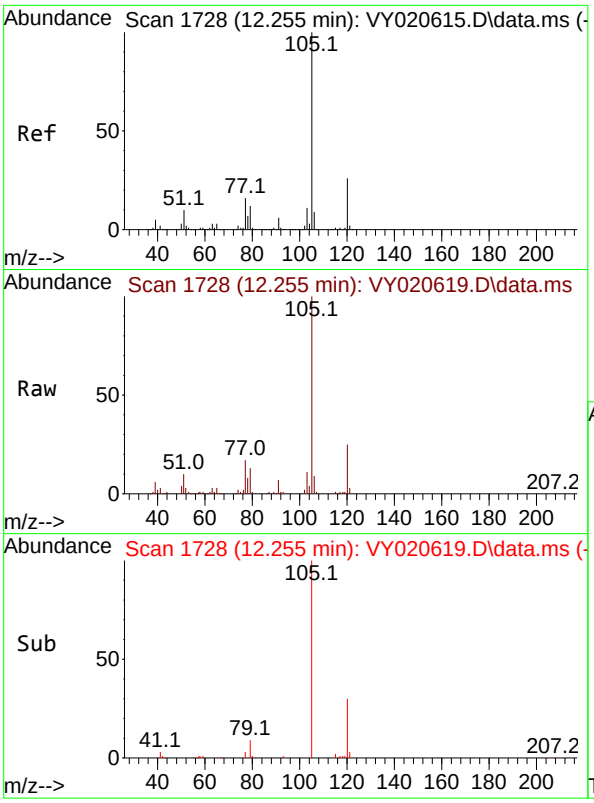




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:152 Resp: 120870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.3 | 30.2 | 90.6 |
| 150 | 160.3 | 0.0 | 355.4 |



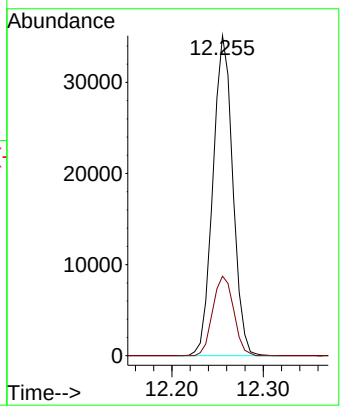


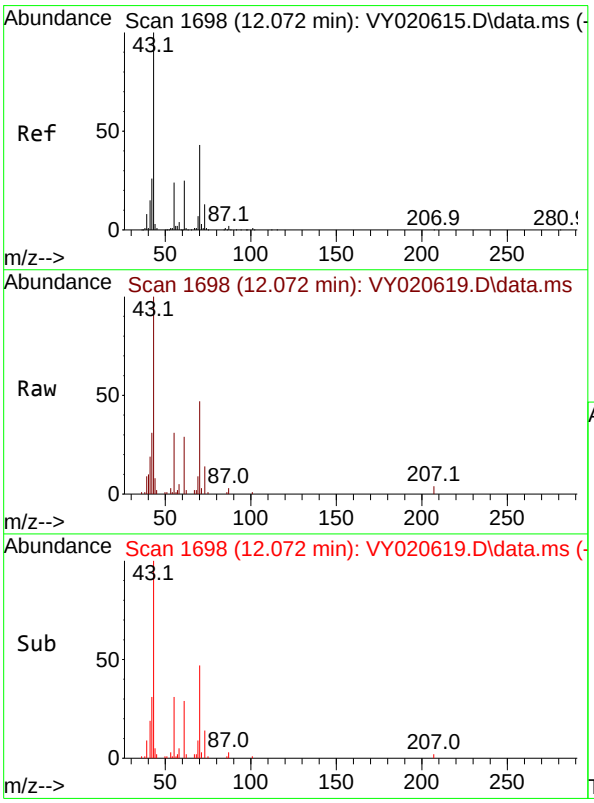

#73
Isopropylbenzene
Concen: 5.043 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:105 Resp: 53196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |

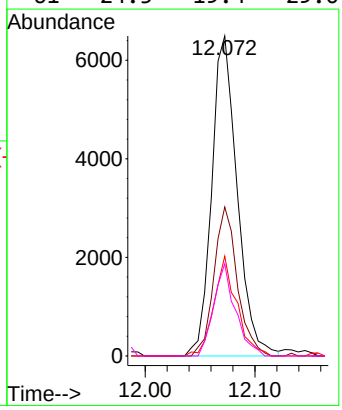


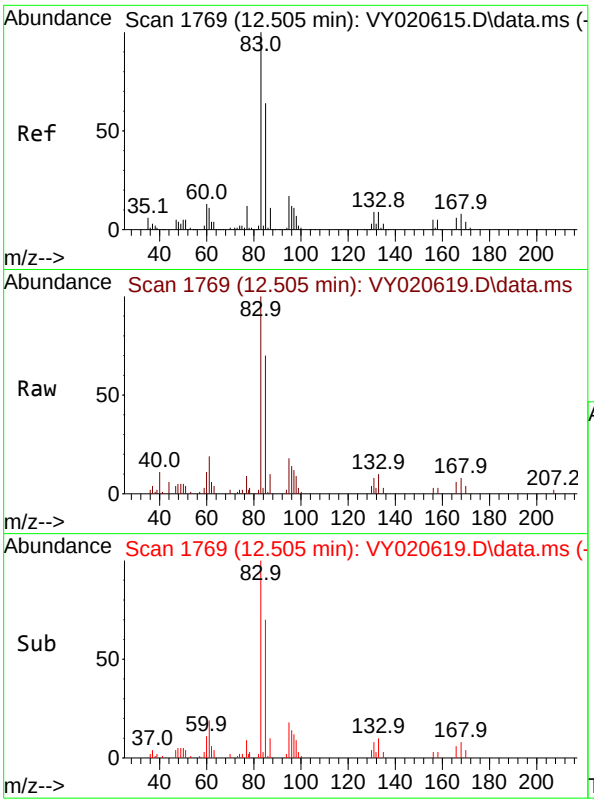




#74
N-amyl acetate
Concen: 4.245 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 43 Resp: 10480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.8 | 34.2 | 51.2 |
| 55 | 27.8 | 19.6 | 29.4 |
| 61 | 24.5 | 19.4 | 29.0 |



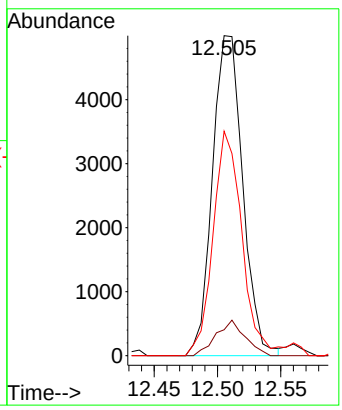


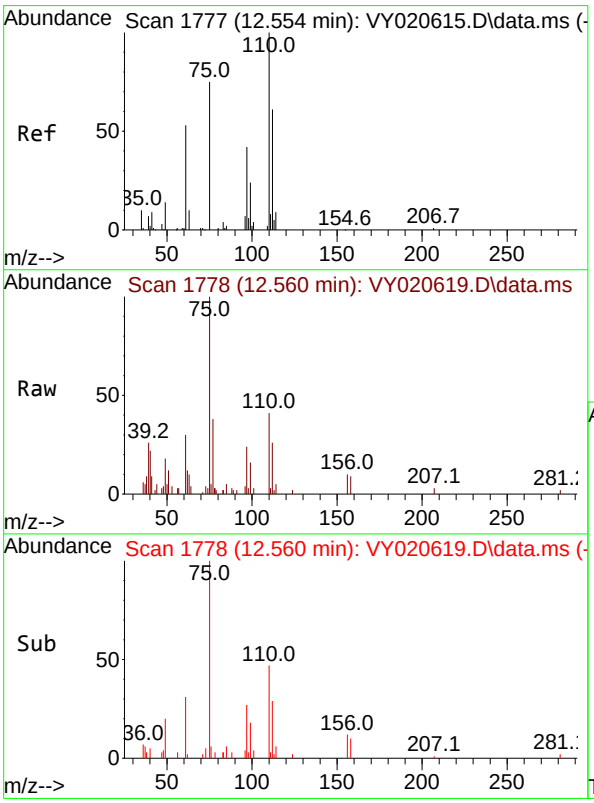

#75
1,1,2,2-Tetrachloroethane
Concen: 4.866 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 8331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.2 | 15.6 |
| 85 | 67.3 | 32.5 | 97.4 |

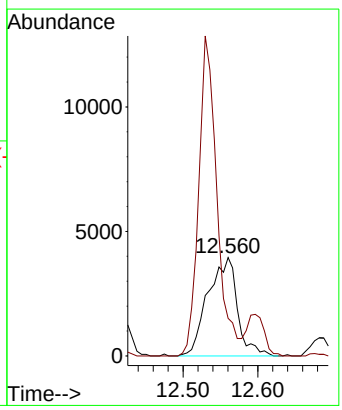


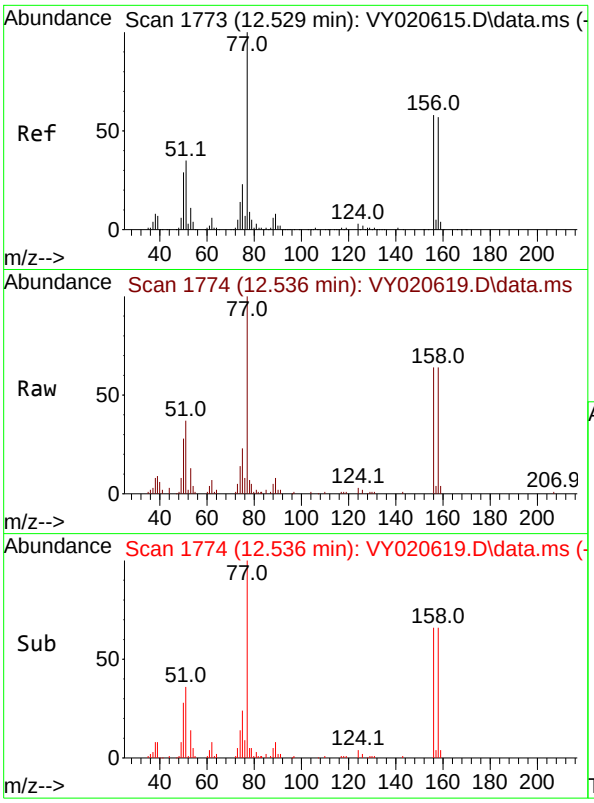




#76
1,2,3-Trichloropropane
Concen: 8.690 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 75 Resp: 10818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



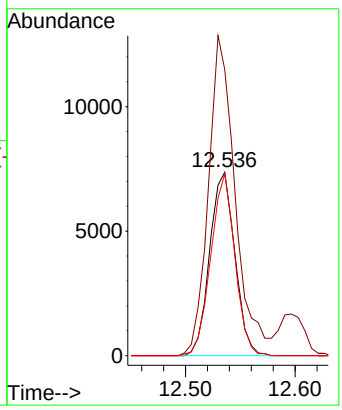


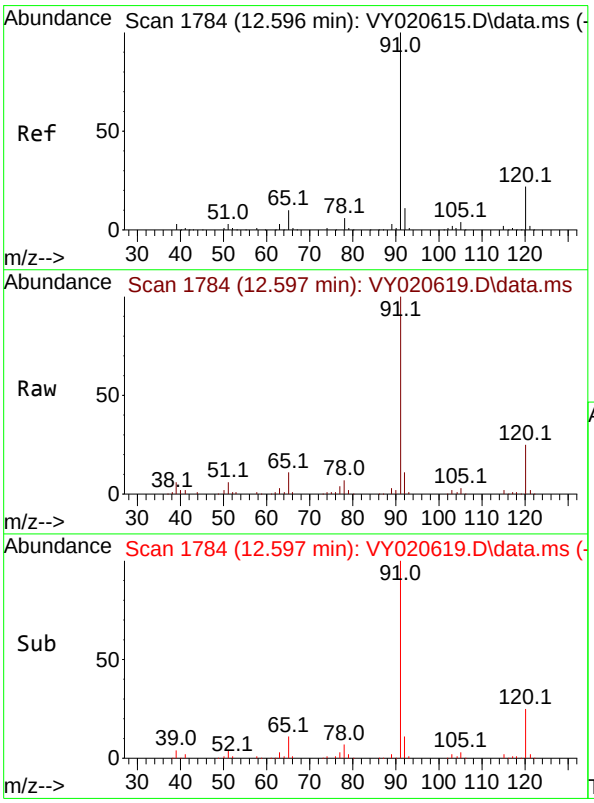

#77
Bromobenzene
Concen: 5.124 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:156 Resp: 11774

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 185.9 | 94.2 | 282.4 |
| 158 | 94.9 | 48.9 | 146.6 |

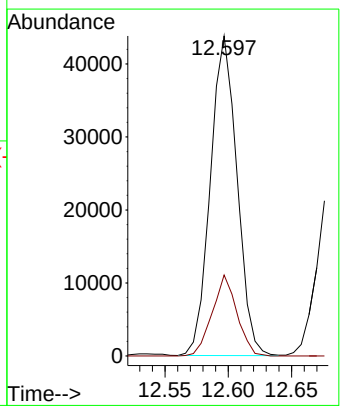


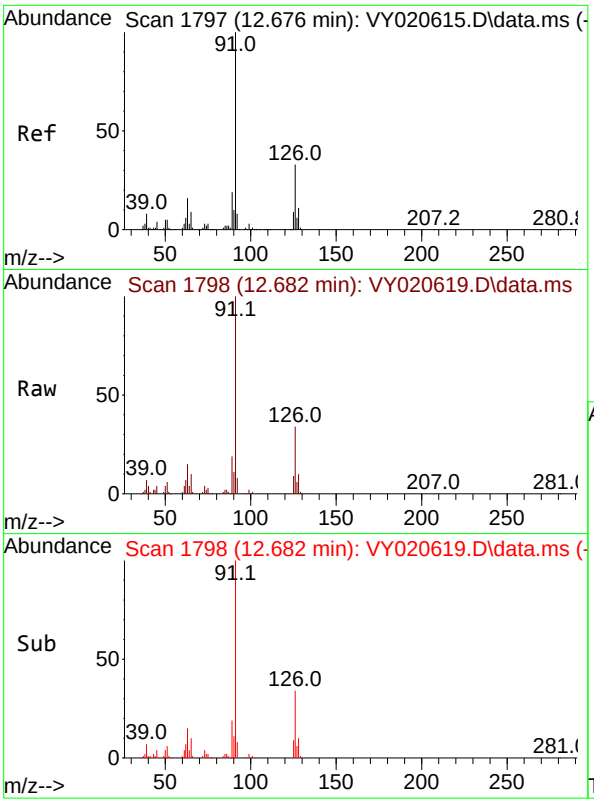




#78
n-propylbenzene
Concen: 5.047 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 91 Resp: 64140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.4 | 11.1 | 33.1 |



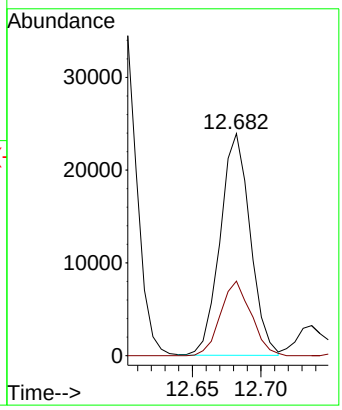


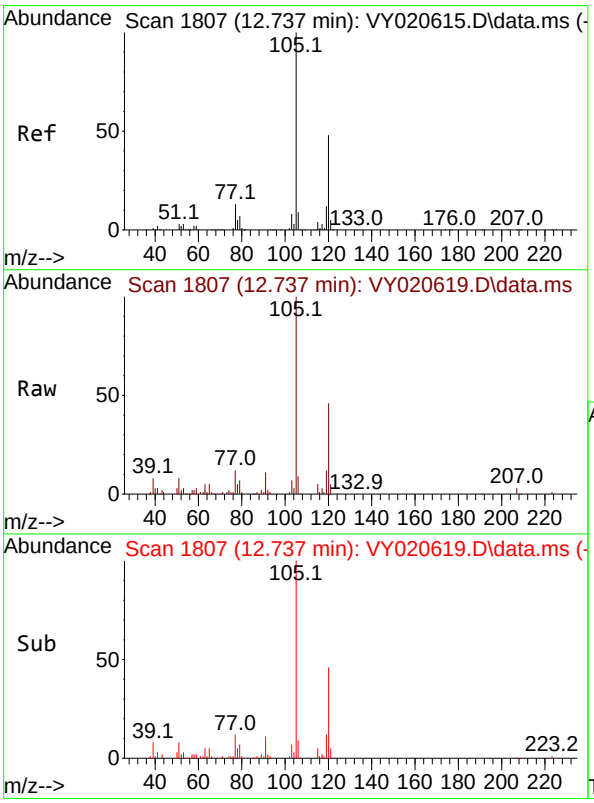

#79
2-Chlorotoluene
Concen: 5.106 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 36508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.1 | 16.6 | 49.7 |

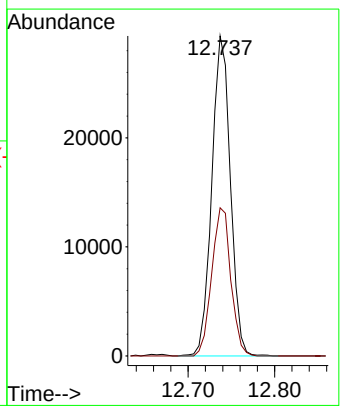


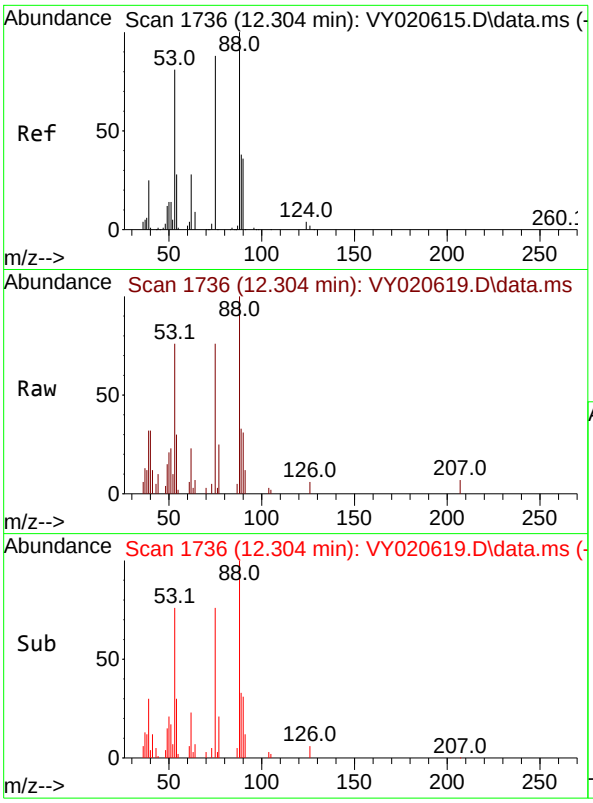




#80
1,3,5-Trimethylbenzene
Concen: 5.107 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:105 Resp: 43711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.5 | 23.9 | 71.7 |



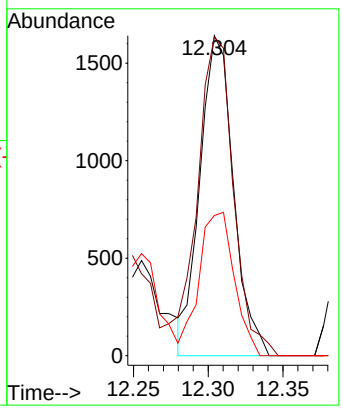


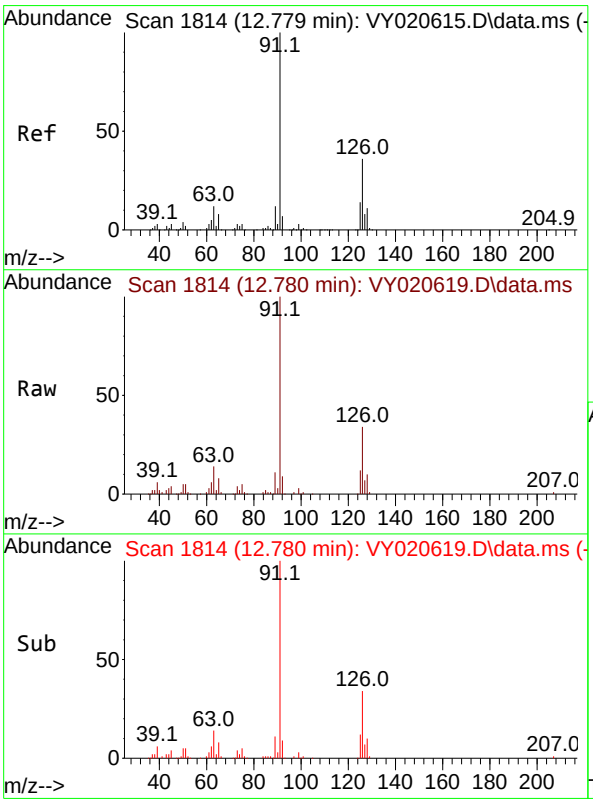

#81
trans-1,4-Dichloro-2-butene
Concen: 4.276 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 75 Resp: 2558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 107.3 | 75.4 | 113.2 |
| 89 | 47.1 | 37.0 | 55.4 |

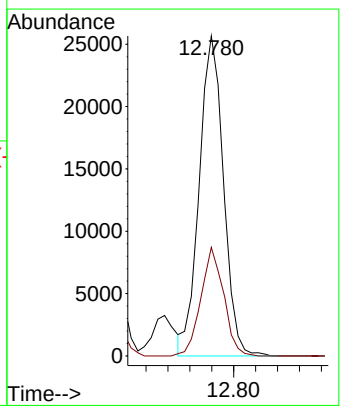


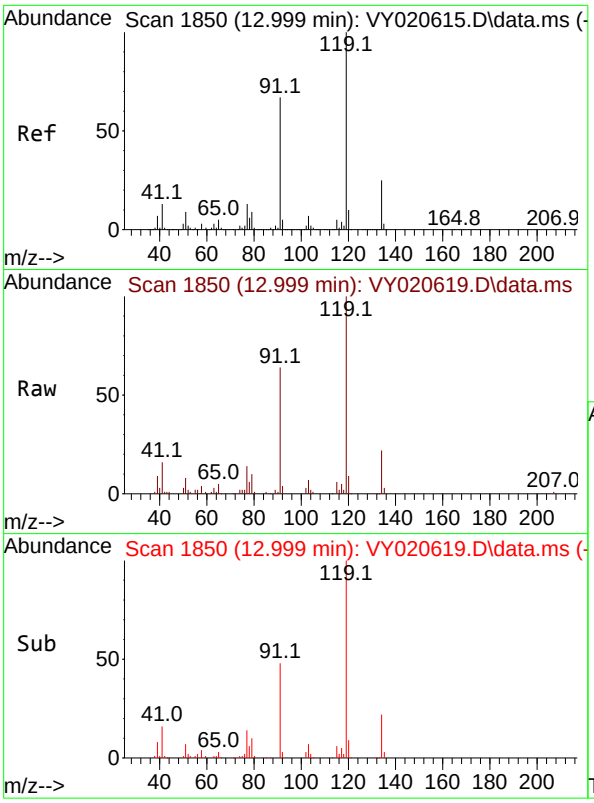




#82
4-Chlorotoluene
Concen: 5.318 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 91 Resp: 39447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.9 | 16.6 | 49.7 |



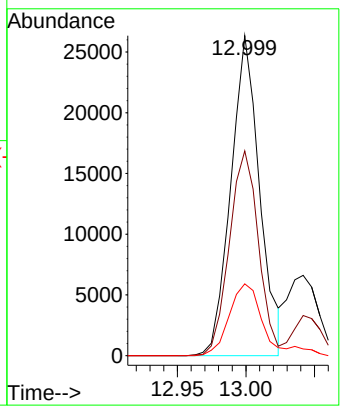


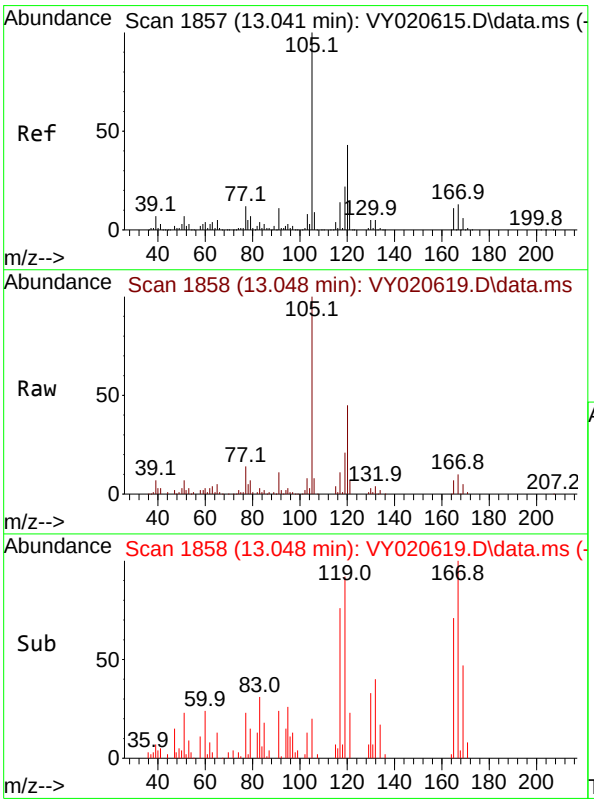

#83
tert-Butylbenzene
Concen: 4.972 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:119 Resp: 38538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.6 | 32.9 | 98.6 |
| 134 | 25.0 | 13.1 | 39.1 |

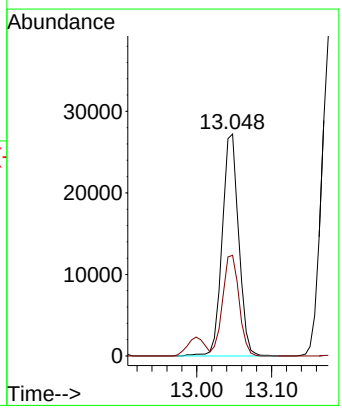


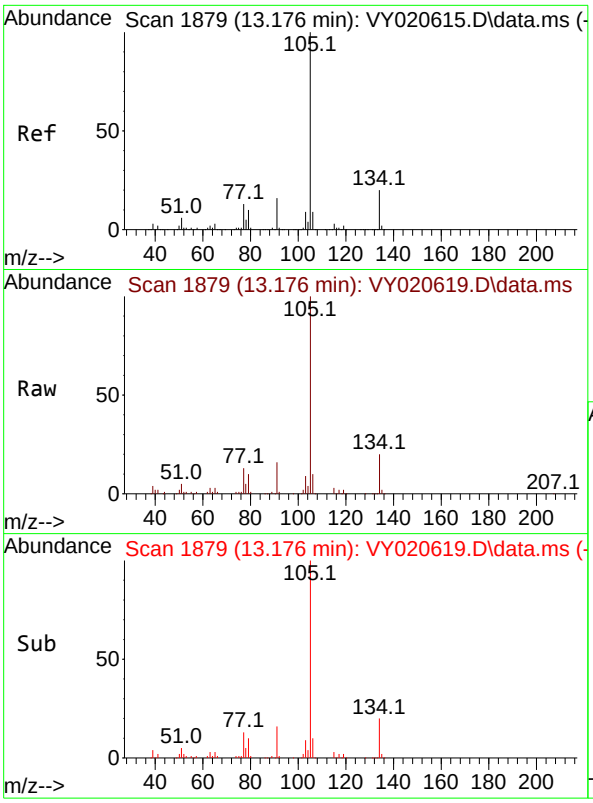




#84
1,2,4-Trimethylbenzene
Concen: 4.974 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:105 Resp: 41754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.5 | 21.8 | 65.4 |



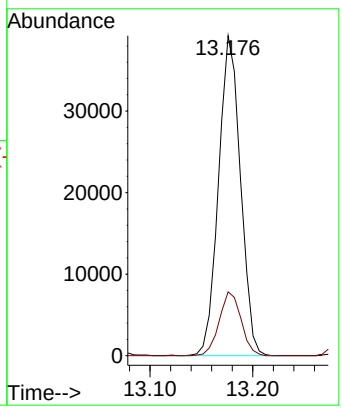


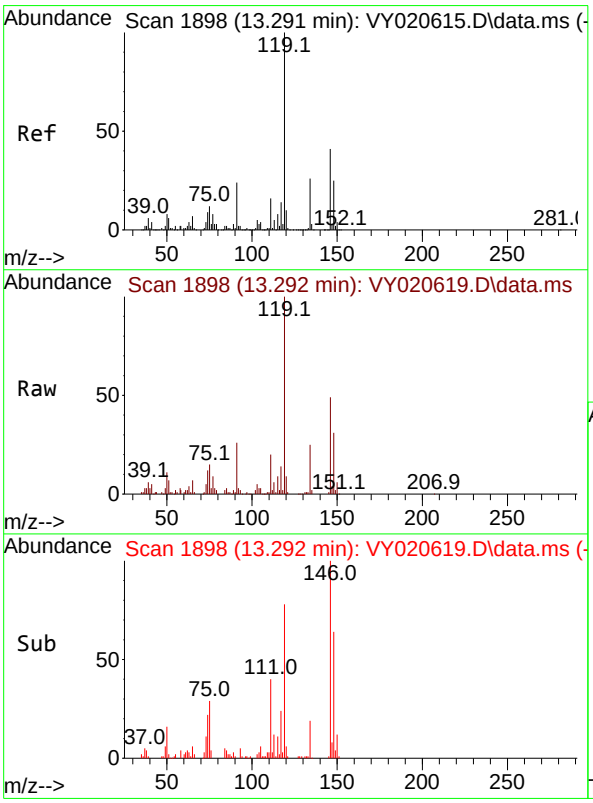

#85
sec-Butylbenzene
Concen: 5.154 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:105 Resp: 58088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.0 | 30.0 |

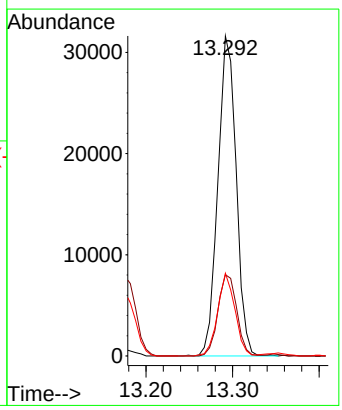


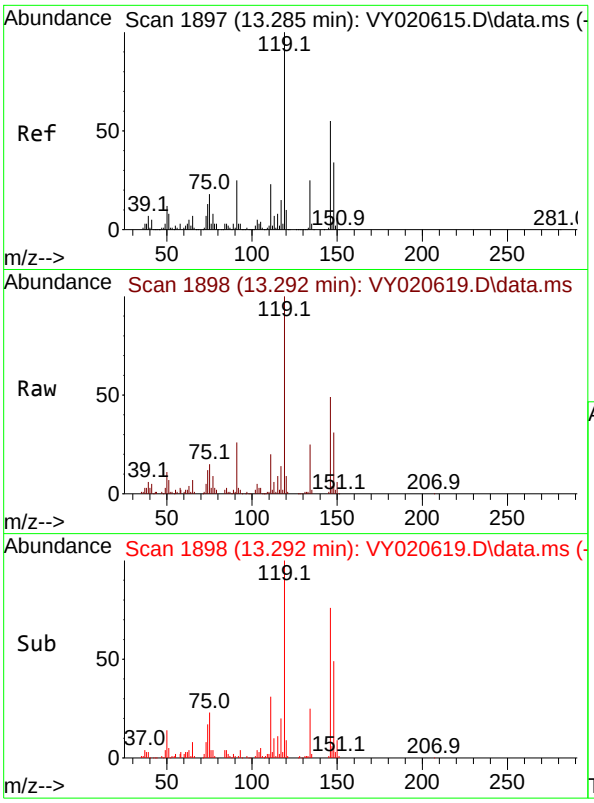




#86
p-Isopropyltoluene
Concen: 4.992 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:119 Resp: 46384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.1 | 12.9 | 38.6 |
| 91 | 24.5 | 12.1 | 36.3 |



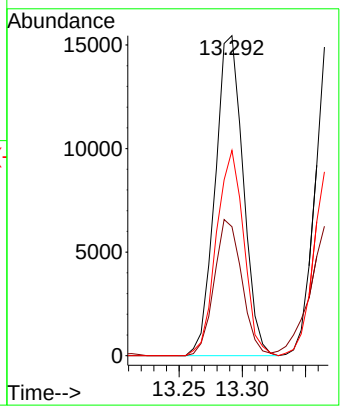


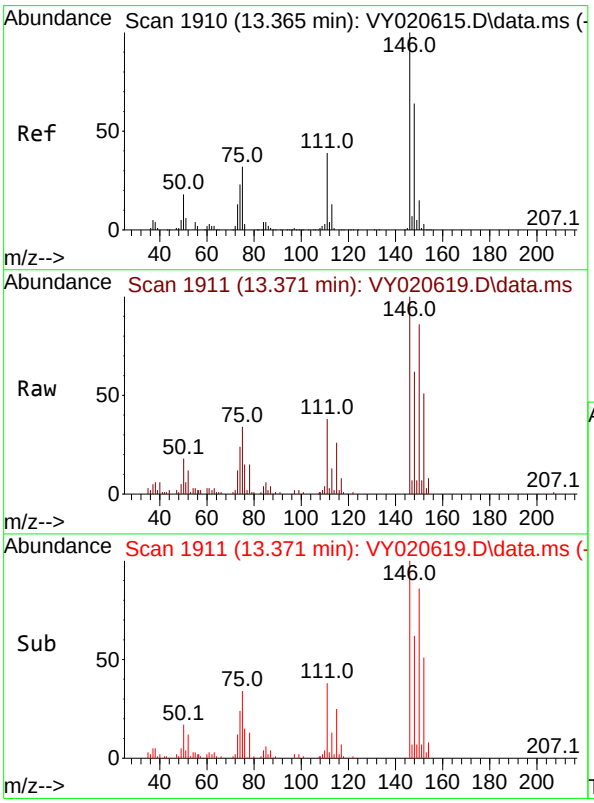

#87
1,3-Dichlorobenzene
Concen: 5.238 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:146 Resp: 23757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.1 | 20.6 | 61.8 |
| 148 | 62.8 | 31.4 | 94.0 |

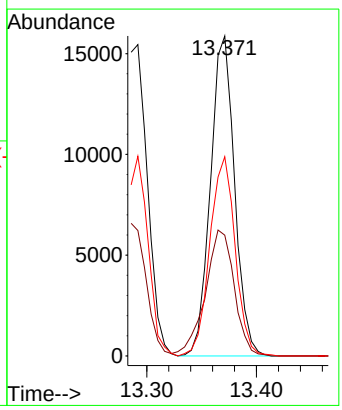


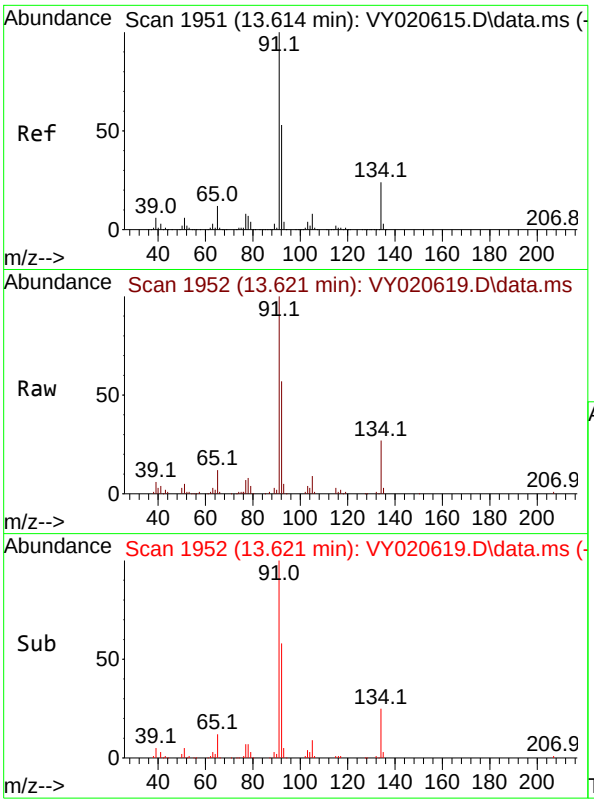




#88
1,4-Dichlorobenzene
Concen: 5.404 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:146 Resp: 24276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.2 | 19.6 | 58.7 |
| 148 | 65.4 | 31.9 | 95.5 |



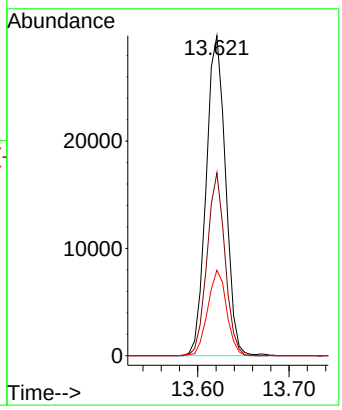


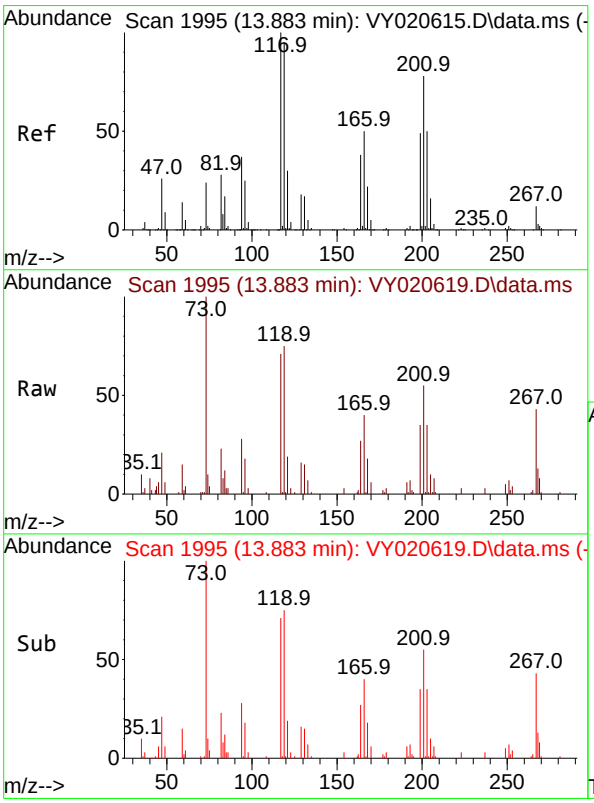

#89
n-Butylbenzene
Concen: 4.976 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 43817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.8 | 80.4 |
| 134 | 26.0 | 12.5 | 37.5 |

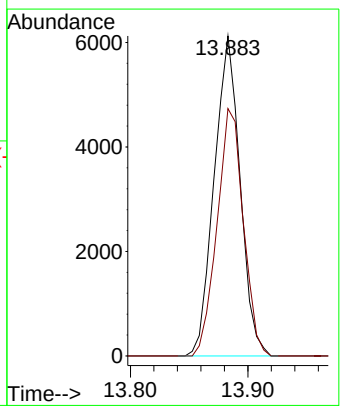


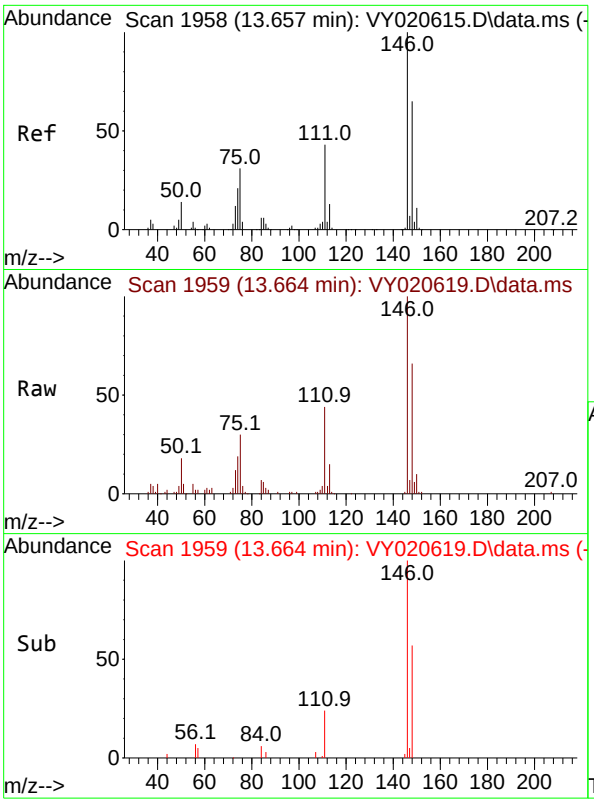




#90
Hexachloroethane
Concen: 5.084 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:117 Resp: 9361

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.4 | 39.1 | 117.3 |



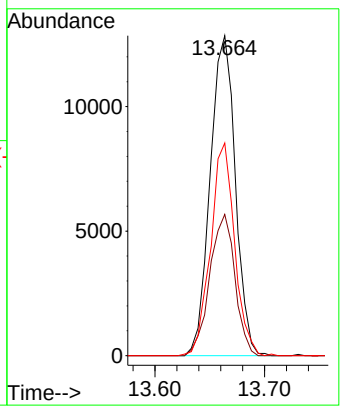


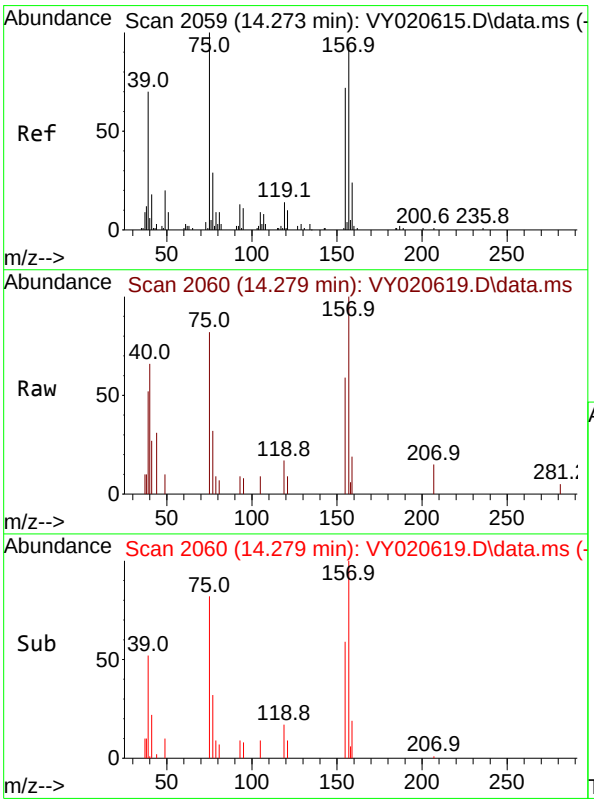

#91
1,2-Dichlorobenzene
Concen: 5.211 ug/l
RT: 13.664 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:146 Resp: 20478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.2 | 21.3 | 63.7 |
| 148 | 63.6 | 32.0 | 96.0 |

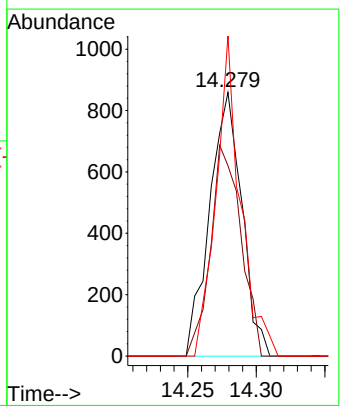


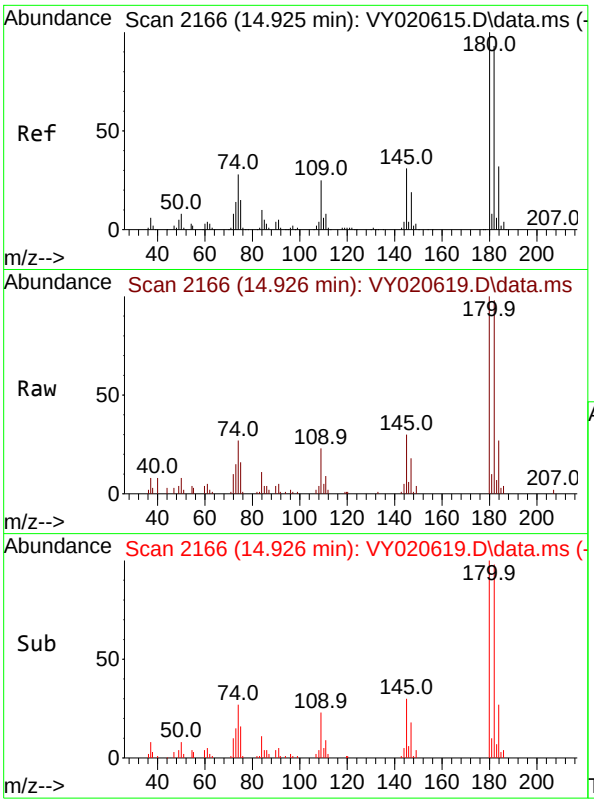




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.051 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion: 75 Resp: 1404

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 75.6 | 41.1 | 123.3 |
| 157 | 92.2 | 52.9 | 158.8 |



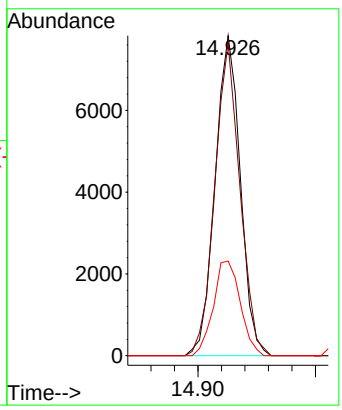


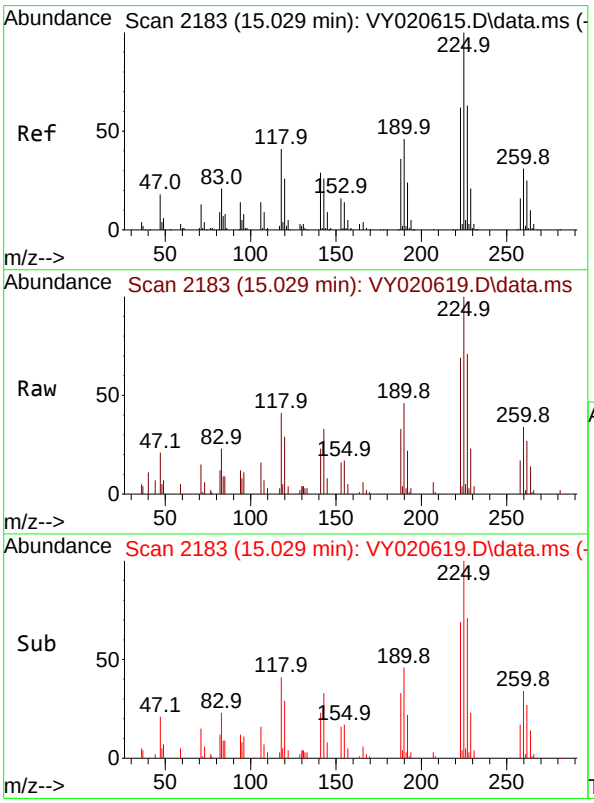

#93
1,2,4-Trichlorobenzene
Concen: 4.900 ug/l
RT: 14.926 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:180 Resp: 11648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.4 | 47.9 | 143.6 |
| 145 | 31.7 | 15.6 | 46.7 |

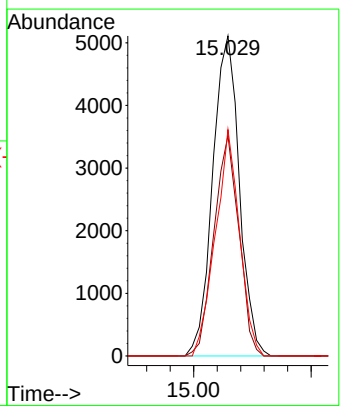


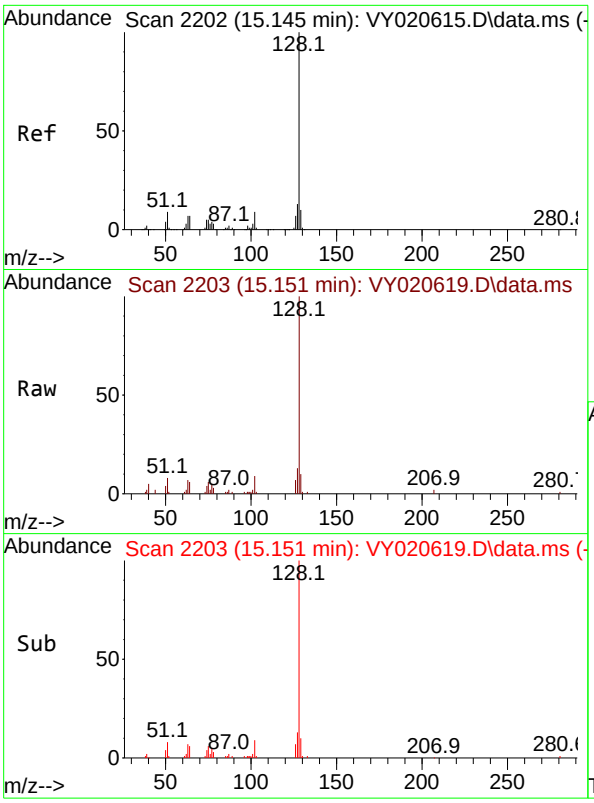




#94
Hexachlorobutadiene
Concen: 5.186 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:225 Resp: 8059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.5 | 31.8 | 95.3 |
| 227 | 64.1 | 32.2 | 96.6 |



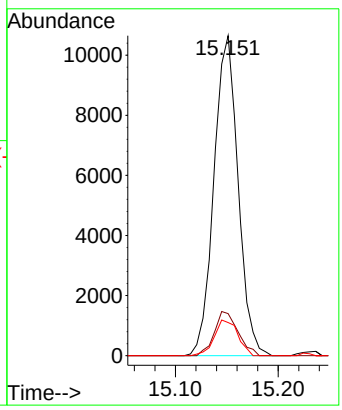


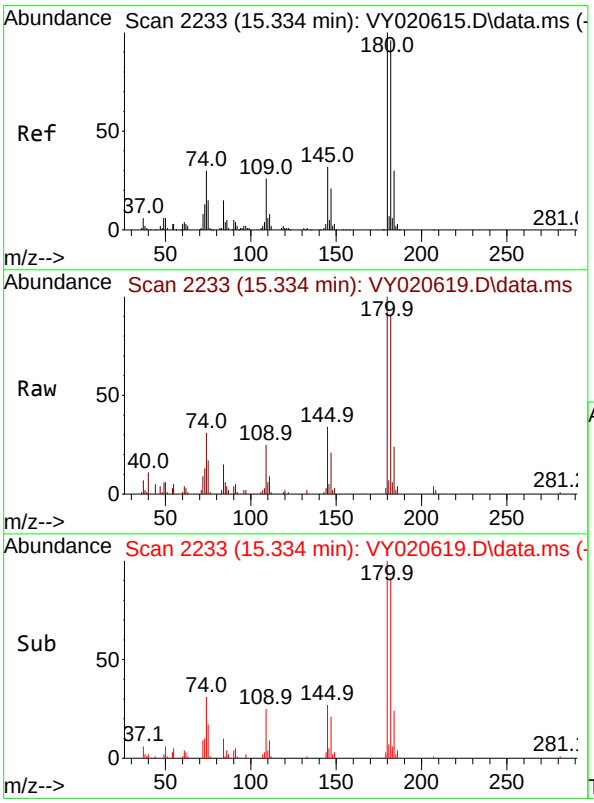

#95
Naphthalene
Concen: 4.261 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:128 Resp: 17365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.7 | 16.1 |
| 129 | 10.9 | 8.5 | 12.7 |

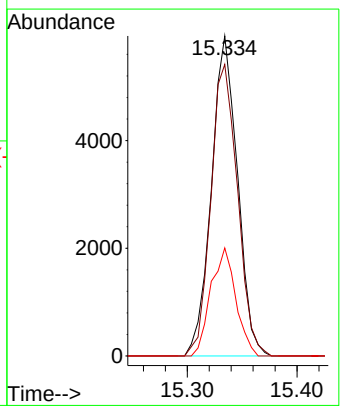



#96
1,2,3-Trichlorobenzene
Concen: 4.890 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020619.D
Acq: 17 Dec 2024 14:51

Tgt Ion:180 Resp: 9821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.2 | 47.3 | 141.9 |
| 145 | 32.3 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 173629 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 261652 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 229207 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 127757 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 79812 | 41.971 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 83.940% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 82508 | 44.743 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 89.480% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 297999 | 46.169 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 92.340% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 108522 | 42.982 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 85.960% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 103417 | 47.686 | ug/l | 96 |
| 3) Chloromethane | 2.068 | 50 | 72696 | 45.240 | ug/l | 96 |
| 4) Vinyl Chloride | 2.202 | 62 | 72204 | 48.277 | ug/l | 100 |
| 5) Bromomethane | 2.599 | 94 | 46536 | 48.405 | ug/l | 95 |
| 6) Chloroethane | 2.733 | 64 | 44843 | 48.520 | ug/l | 95 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 147334 | 47.080 | ug/l | 100 |
| 8) Diethyl Ether | 3.458 | 74 | 48299 | 44.007 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 111288 | 49.613 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 125272 | 50.161 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.854 | 59 | 35896 | 166.993 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 109207 | 50.176 | ug/l | 99 |
| 13) Acrolein | 3.653 | 56 | 13043 | 145.056 | ug/l | 95 |
| 14) Allyl chloride | 4.385 | 41 | 194403 | 50.975 | ug/l | 99 |
| 15) Acrylonitrile | 5.055 | 53 | 111135 | 211.661 | ug/l | 99 |
| 16) Acetone | 3.867 | 43 | 128884 | 343.570 | ug/l | 95 |
| 17) Carbon Disulfide | 4.110 | 76 | 357372 | 50.444 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 56965 | 44.029 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 254917 | 45.379 | ug/l | 98 |
| 20) Methylene Chloride | 4.616 | 84 | 110314 | 46.658 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 118791 | 48.656 | ug/l | 96 |
| 22) Diisopropyl ether | 6.019 | 45 | 373306 | 48.223 | ug/l | 96 |
| 23) Vinyl Acetate | 5.964 | 43 | 993429 | 226.581 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 221322 | 48.802 | ug/l | 100 |
| 25) 2-Butanone | 6.897 | 43 | 162705 | 230.232 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 199229 | 46.471 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 135394 | 48.202 | ug/l | 100 |
| 28) Bromochloromethane | 7.244 | 49 | 78629 | 51.402 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 90590 | 203.060 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 227671 | 49.995 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 199127 | 45.921 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 203477 | 48.837 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 166171 | 49.418 | ug/l | 99 |
| 37) Ethyl Acetate | 6.982 | 43 | 67205 | 42.490 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 185268 | 49.800 | ug/l | 99 |
| 39) Methylcyclohexane | 9.110 | 83 | 214365 | 48.913 | ug/l | 98 |
| 40) Benzene | 8.079 | 78 | 486468 | 49.357 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 39828 | 47.631 | ug/l | # | 86 |
| 42) 1,2-Dichloroethane | 8.159 | 62 | 122520 | 46.869 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 130339 | 43.528 | ug/l | # | 88 |
| 44) Trichloroethene | 8.866 | 130 | 120014 | 49.555 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 112171 | 48.695 | ug/l | | 98 |
| 46) Dibromomethane | 9.232 | 93 | 56323 | 46.265 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.421 | 83 | 158529 | 48.208 | ug/l | | 100 |
| 48) Methyl methacrylate | 9.219 | 41 | 63016 | 44.268 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.232 | 88 | 11394 | 816.119 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 331396 | 209.670 | ug/l | | 100 |
| 52) Toluene | 10.170 | 92 | 300584 | 49.073 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 146498 | 47.810 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 178584 | 49.184 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 73962 | 45.952 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.439 | 69 | 108638 | 46.525 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 134515 | 46.882 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 239347 | 243.610 | ug/l | | 100 |
| 59) 2-Hexanone | 10.756 | 43 | 240324 | 236.822 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 101431 | 47.121 | ug/l | | 97 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 68798 | 45.952 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 106990 | 49.626 | ug/l | | 94 |
| 65) Chlorobenzene | 11.438 | 112 | 313945 | 48.986 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 107564 | 49.083 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 588990 | 49.815 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 437108 | 99.430 | ug/l | | 100 |
| 69) o-Xylene | 11.957 | 106 | 203316 | 49.568 | ug/l | | 98 |
| 70) Styrene | 11.969 | 104 | 341470 | 49.827 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 56002 | 45.451 | ug/l | # | 100 |
| 73) Isopropylbenzene | 12.255 | 105 | 556414 | 49.908 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 118269 | 45.328 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 81117 | 44.824 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 109938 | 82.838 | ug/l | # | 100 |
| 77) Bromobenzene | 12.536 | 156 | 117217 | 48.267 | ug/l | | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 668577 | 49.775 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 375047 | 49.628 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 452266 | 49.995 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 28650 | 45.313 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 383617 | 48.929 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 405285 | 49.469 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 442582 | 49.877 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.176 | 105 | 589060 | 49.451 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 492898 | 50.187 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 233241 | 48.653 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 227374 | 47.888 | ug/l | | 100 |
| 89) n-Butylbenzene | 13.621 | 91 | 472143 | 50.725 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 96035 | 49.342 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.658 | 146 | 200049 | 48.162 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 12169 | 41.418 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 124084 | 49.388 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 84375 | 51.372 | ug/l | | 99 |
| 95) Naphthalene | 15.145 | 128 | 199622 | 46.344 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 103298 | 48.662 | ug/l | | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

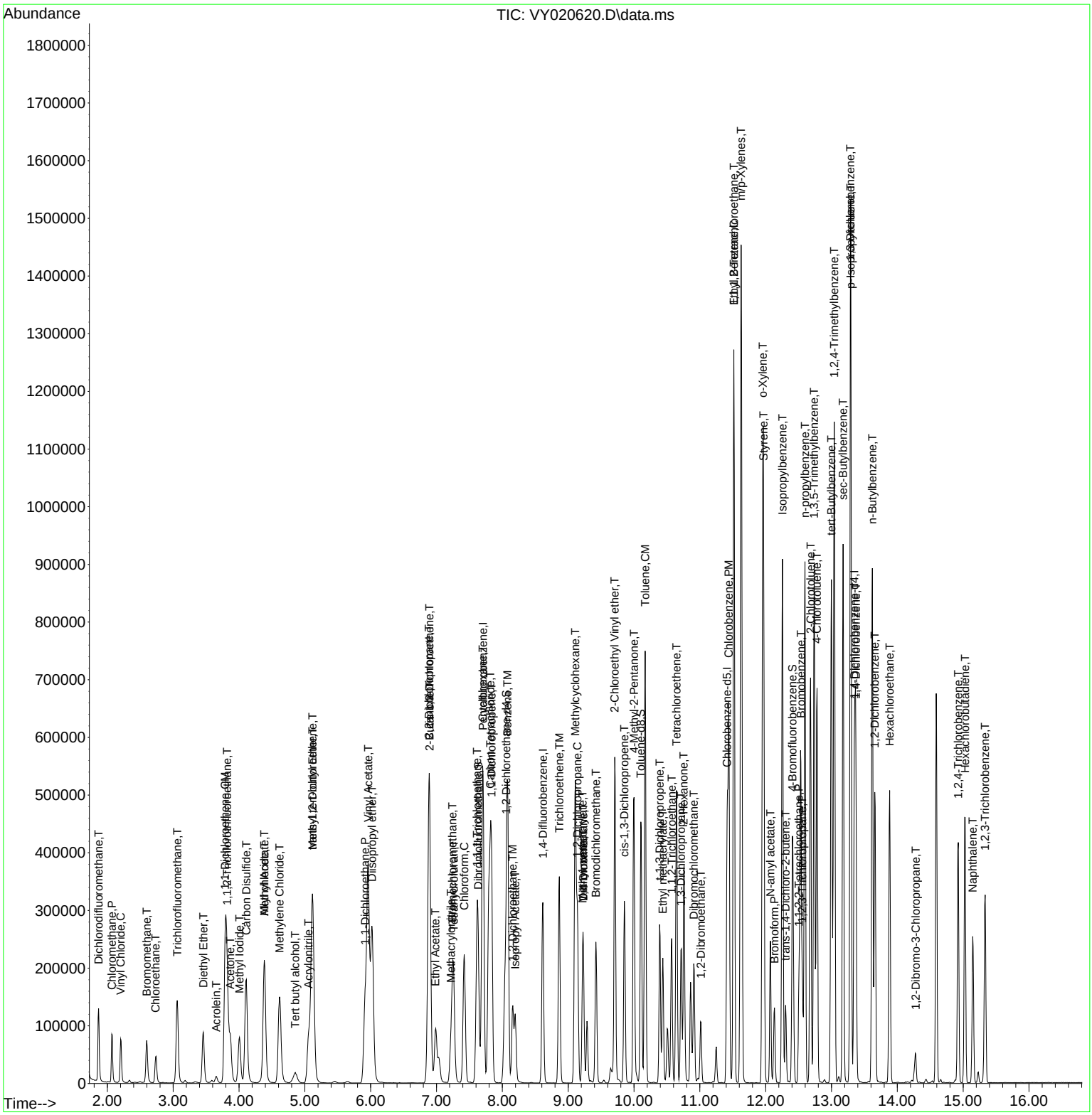
(#) = qualifier out of range (m) = manual integration (+) = signals summed

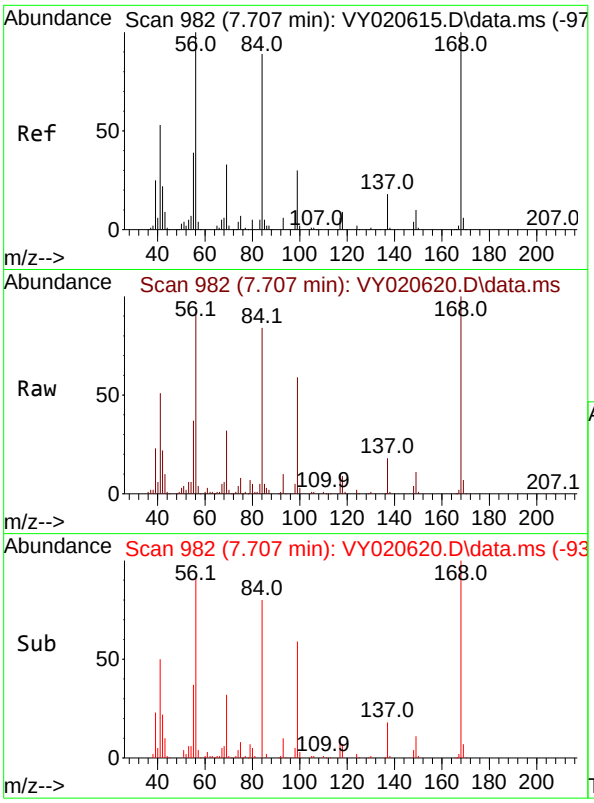
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY121724\
Data File : VY020620.D
Acq On : 17 Dec 2024 17:41
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Quant Time: Dec 18 05:29:05 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



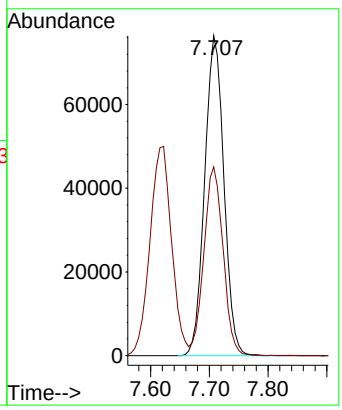


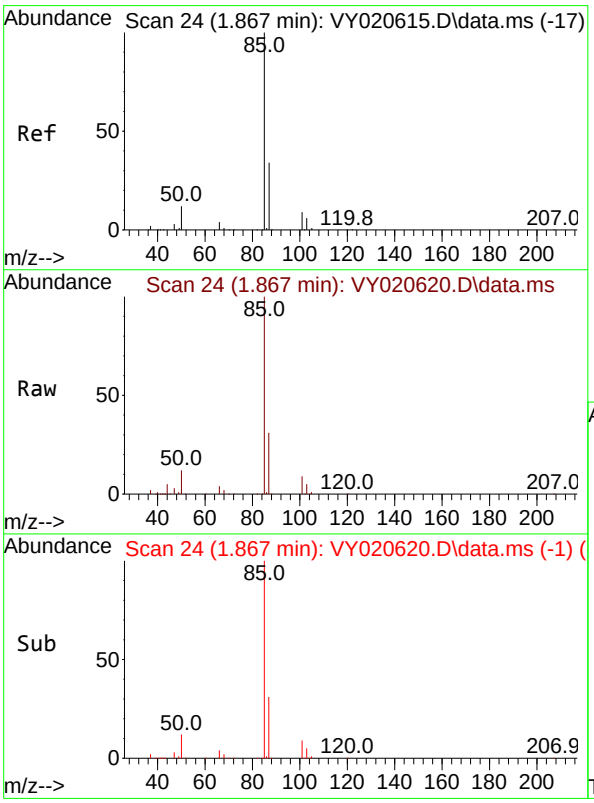

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:168 Resp: 173629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.9 | 47.0 | 70.6 |

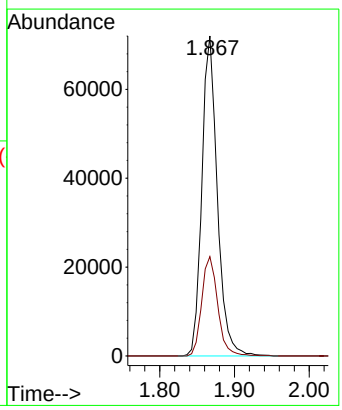


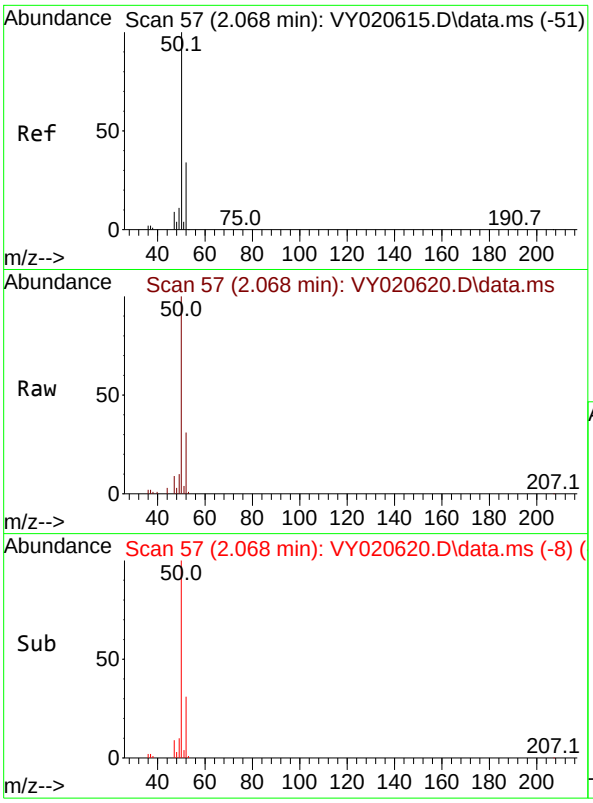




#2
Dichlorodifluoromethane
Concen: 47.686 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 85 Resp: 103417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.1 | 16.8 | 50.3 |



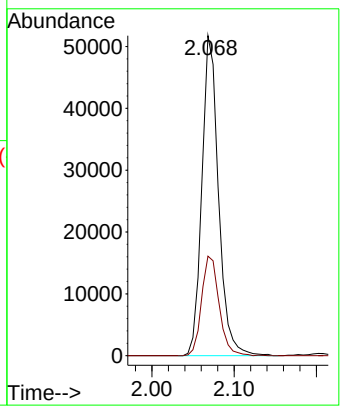


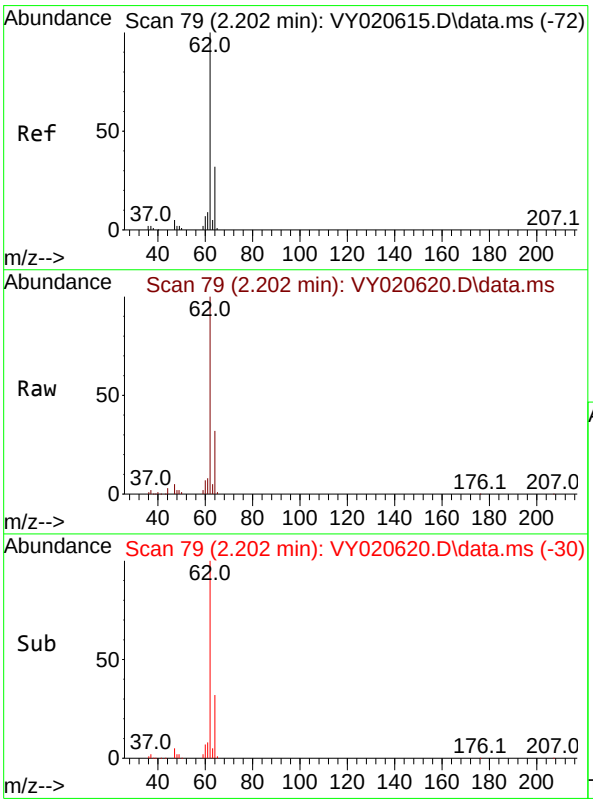

#3
Chloromethane
Concen: 45.240 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 50 Resp: 72696

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.1 | 26.8 | 40.2 |

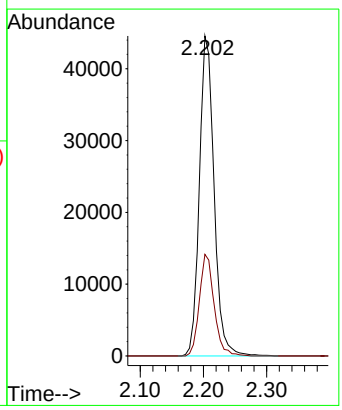


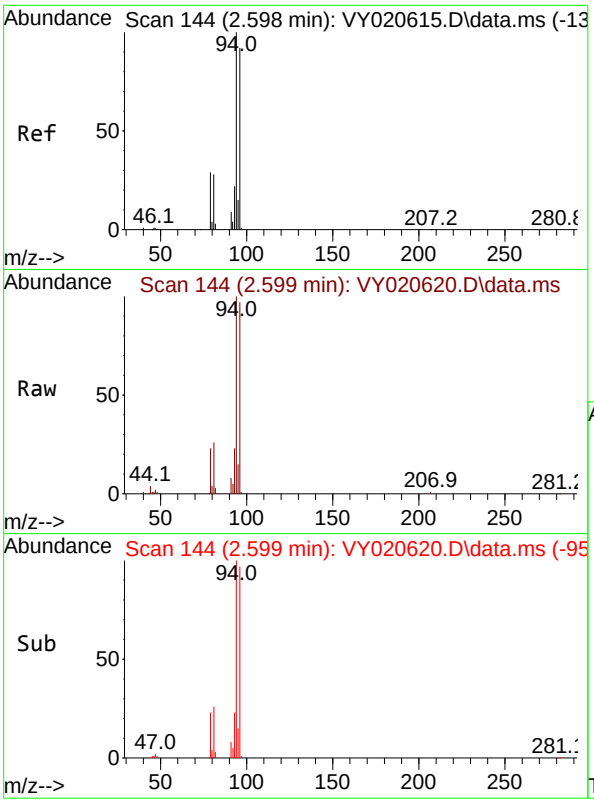




#4
Vinyl Chloride
Concen: 48.277 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 62 Resp: 72204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.3 | 37.9 |



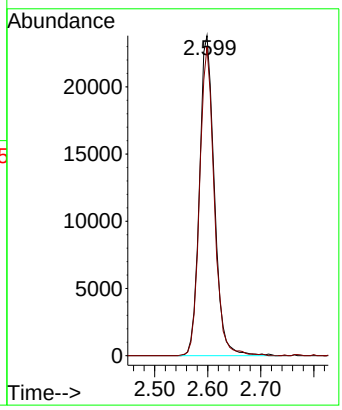


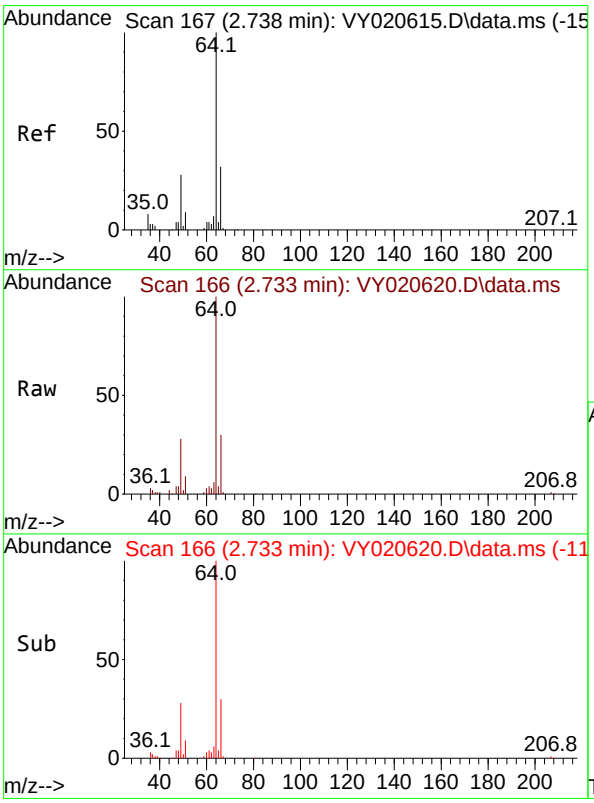

#5
Bromomethane
Concen: 48.405 ug/l
RT: 2.599 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 94 Resp: 46536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.5 | 73.8 | 110.6 |

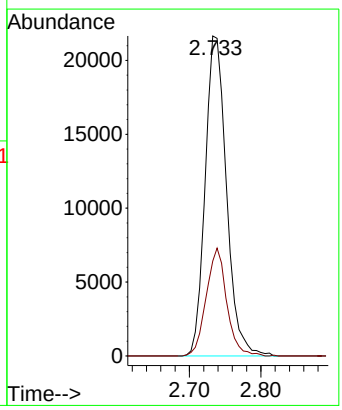


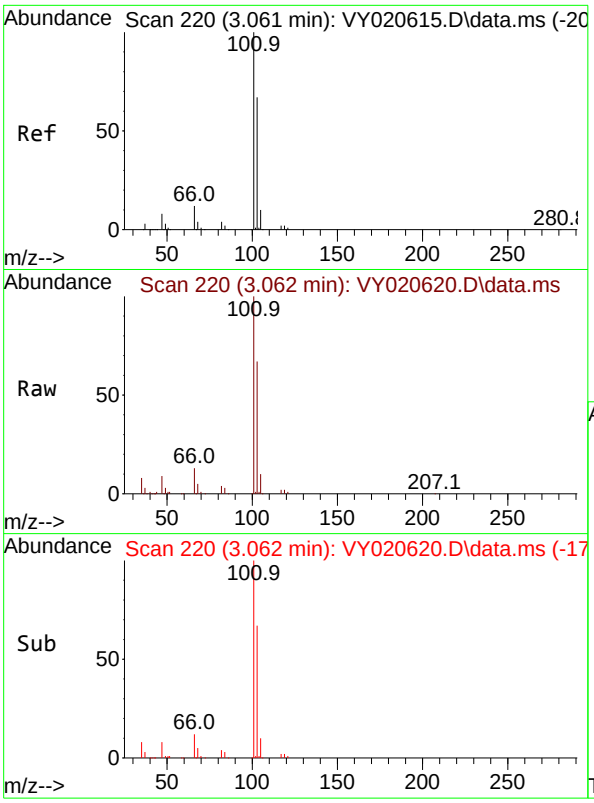




#6
Chloroethane
Concen: 48.520 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 64 Resp: 44843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 29.7 | 25.8 | 38.6 |



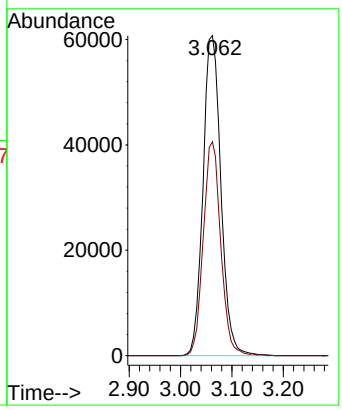


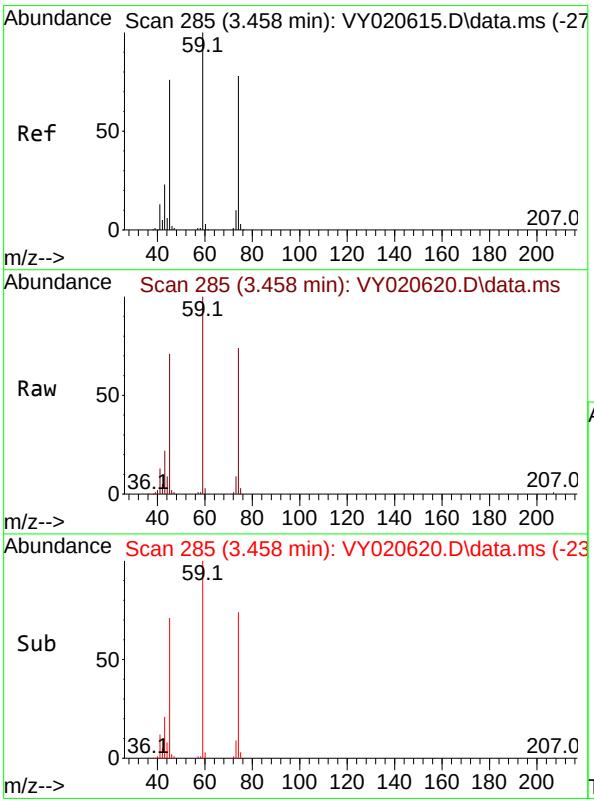

#7
Trichlorofluoromethane
Concen: 47.080 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:101 Resp: 147334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 66.9 | 53.4 | 80.0 |

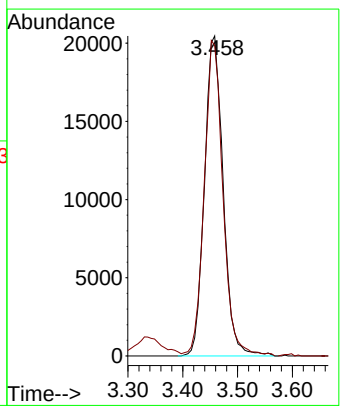


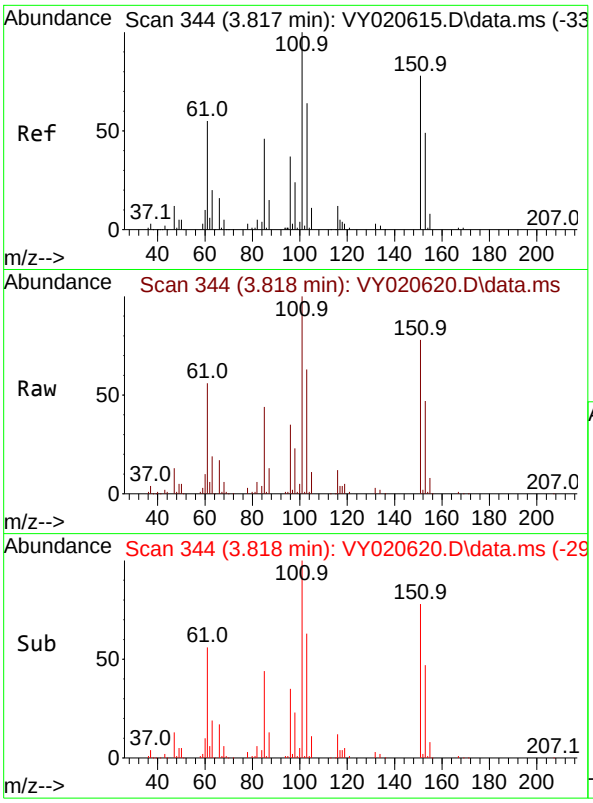




#8
Diethyl Ether
Concen: 44.007 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 74 Resp: 48299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.8 | 49.0 | 147.2 |



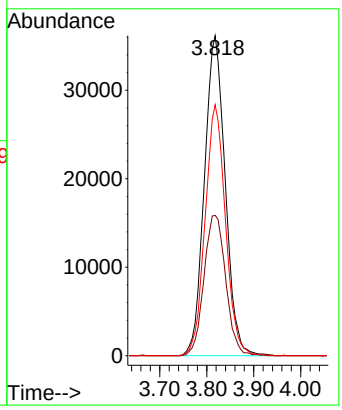


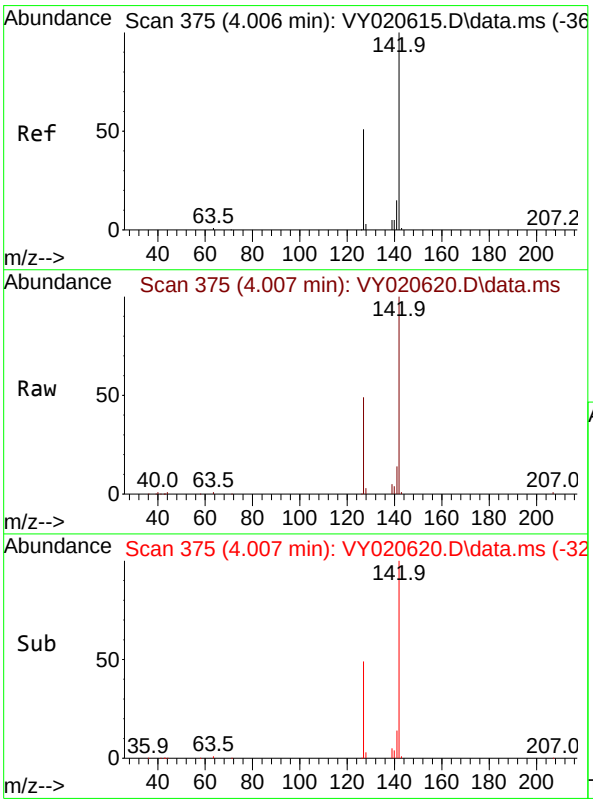

#9
1,1,2-Trichlorotrifluoroethane
Concen: 49.613 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:101 Resp: 111288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.8 | 36.6 | 54.8 |
| 151 | 76.9 | 61.5 | 92.3 |

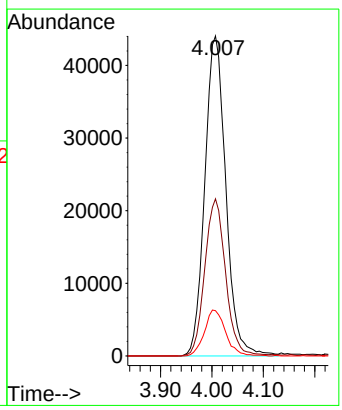


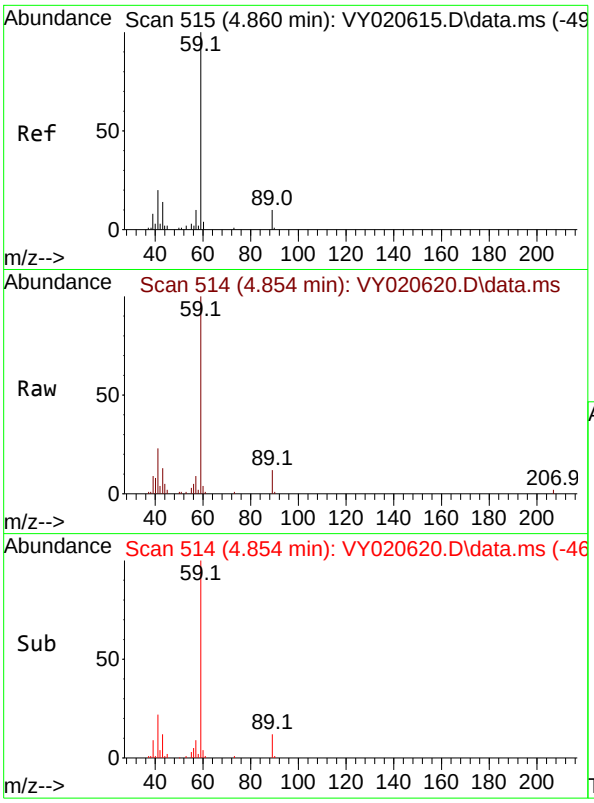




#10
Methyl Iodide
Concen: 50.161 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:142 Resp: 125272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 48.6 | 40.6 | 61.0 |
| 141 | 14.5 | 11.7 | 17.5 |



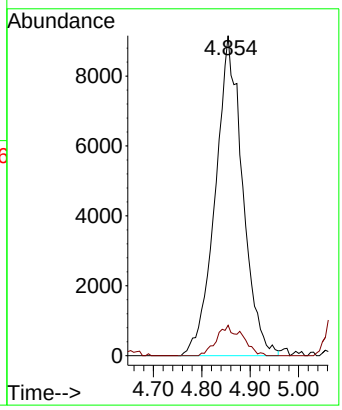


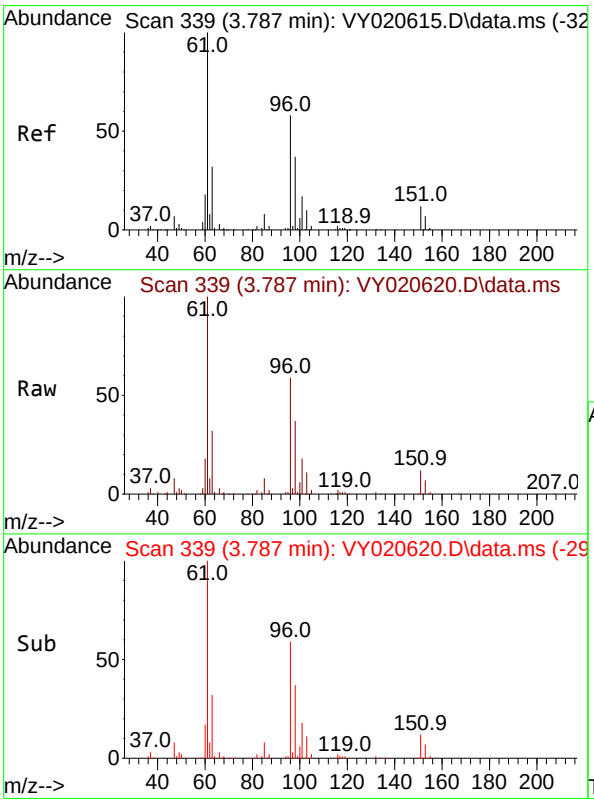

#11
Tert butyl alcohol
Concen: 166.993 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 59 Resp: 35896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.0 | 7.4 | 11.0 |

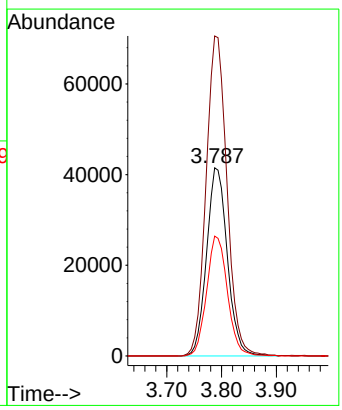


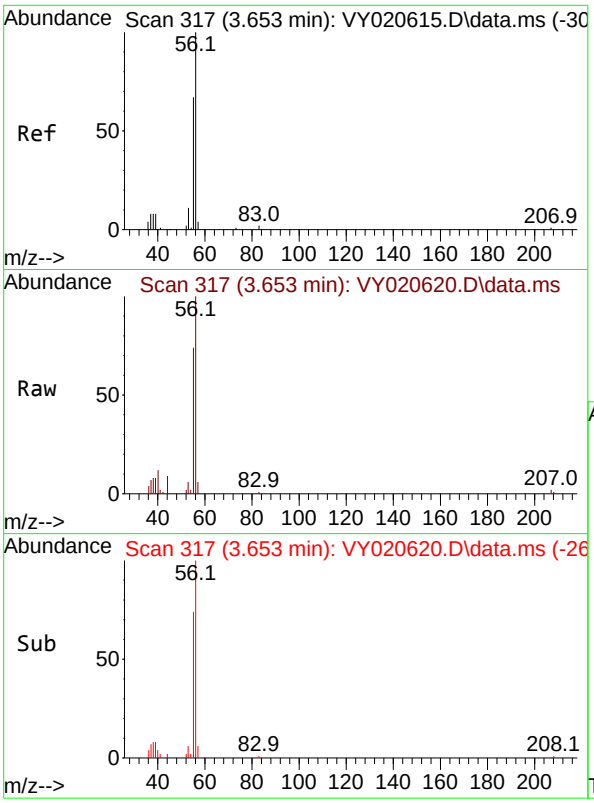




#12
1,1-Dichloroethene
Concen: 50.176 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 96 Resp: 109207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 170.1 | 136.9 | 205.3 |
| 98 | 63.7 | 50.2 | 75.4 |



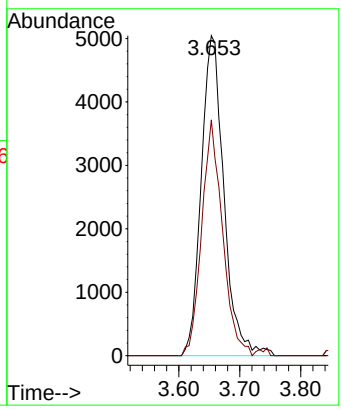


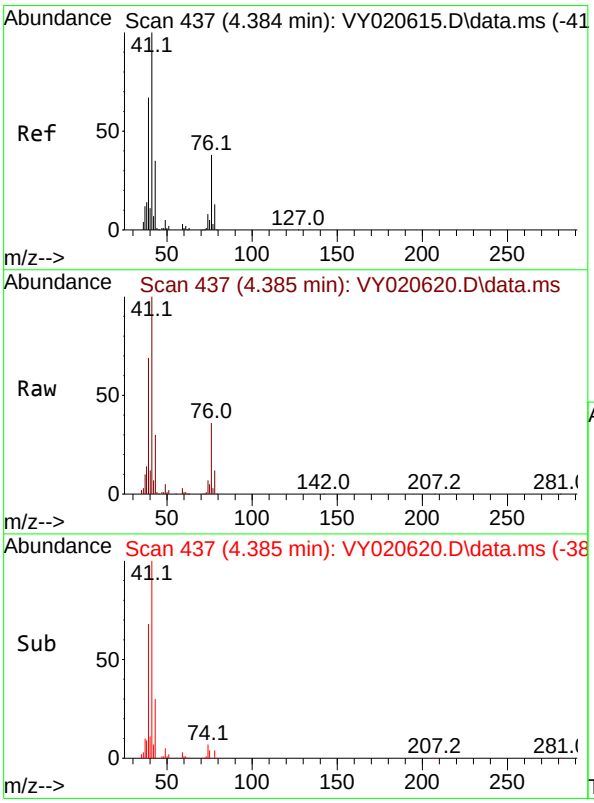

#13
Acrolein
Concen: 145.056 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 56 Resp: 13043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 67.6 | 57.5 | 86.3 |

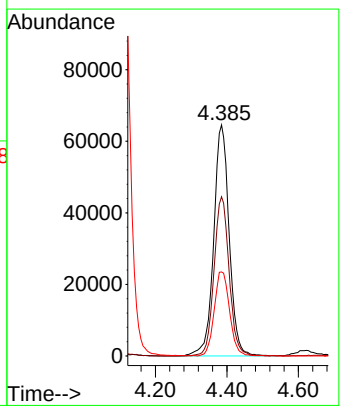


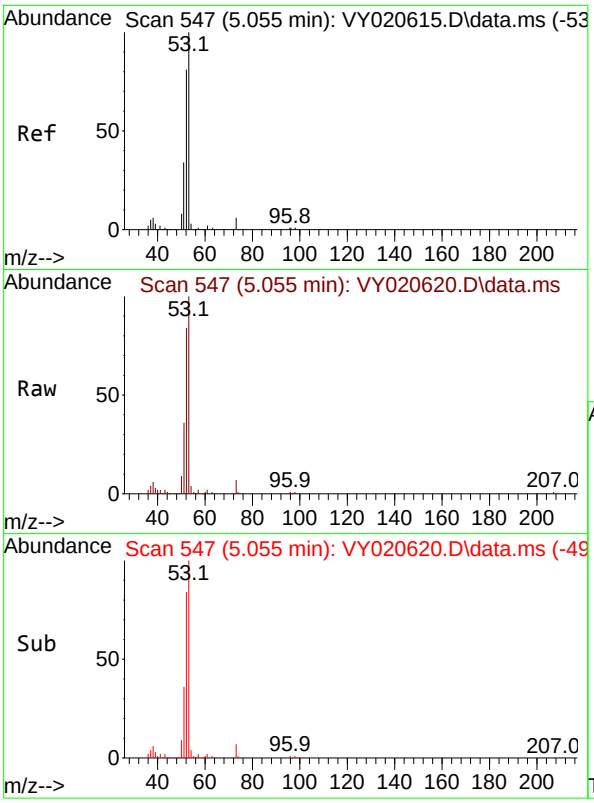




#14
Allyl chloride
Concen: 50.975 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 41 Resp: 194403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.2 | 53.0 | 79.4 |
| 76 | 36.1 | 29.5 | 44.3 |



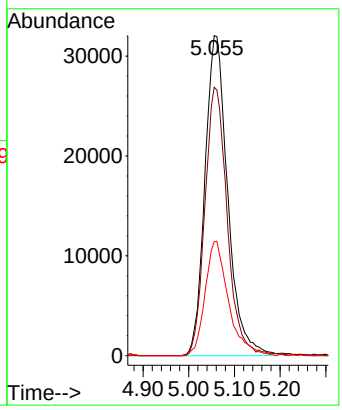


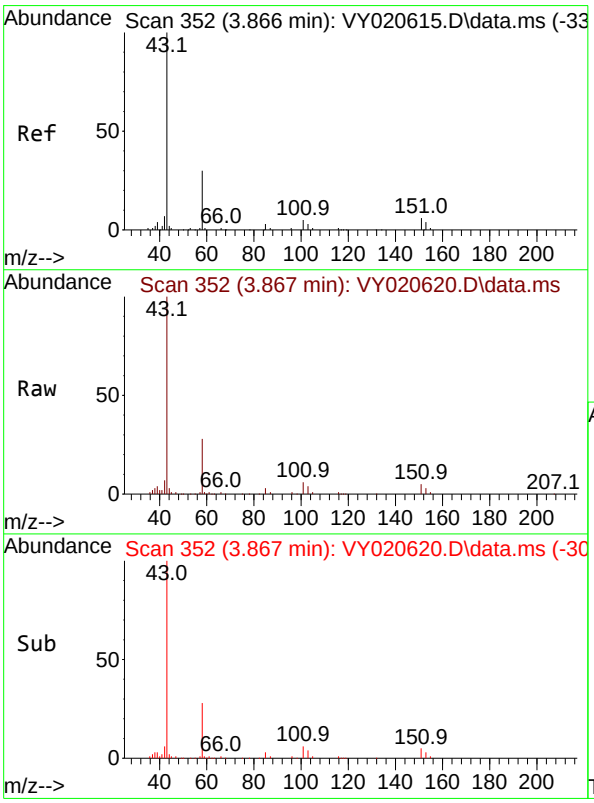

#15
Acrylonitrile
Concen: 211.661 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 53 Resp: 111135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.3 | 64.5 | 96.7 |
| 51 | 36.6 | 29.4 | 44.0 |

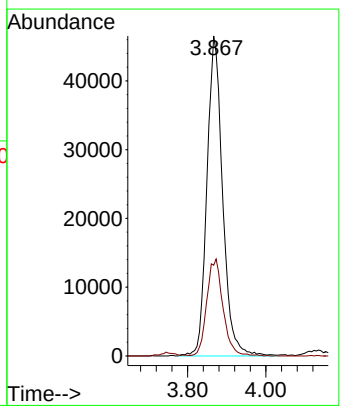


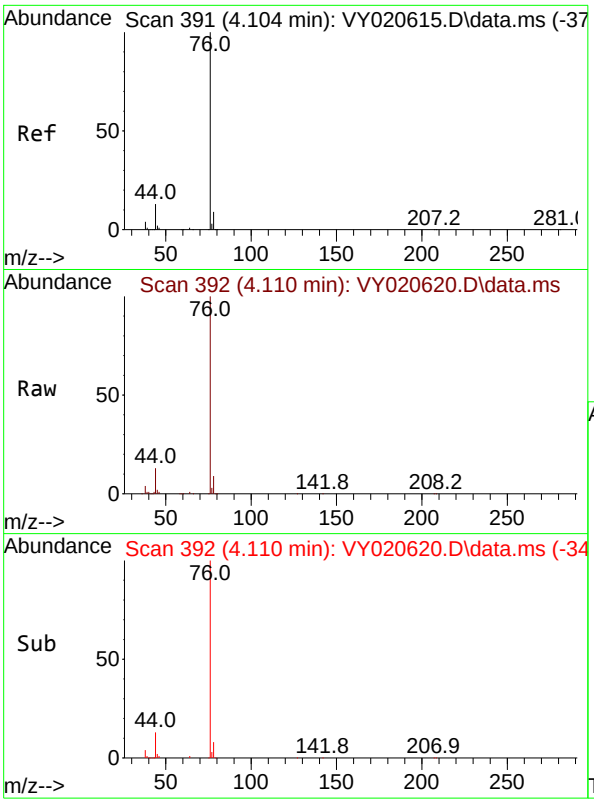




#16
Acetone
Concen: 343.570 ug/l
RT: 3.867 min Scan# 352
Delta R.T. 0.001 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 128884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.4 | 25.0 | 37.6 |



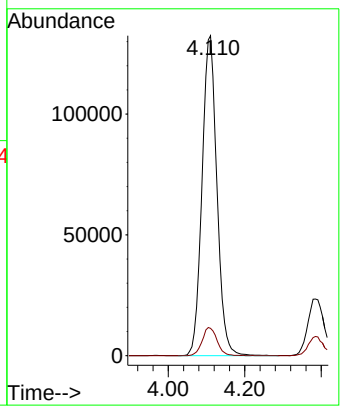


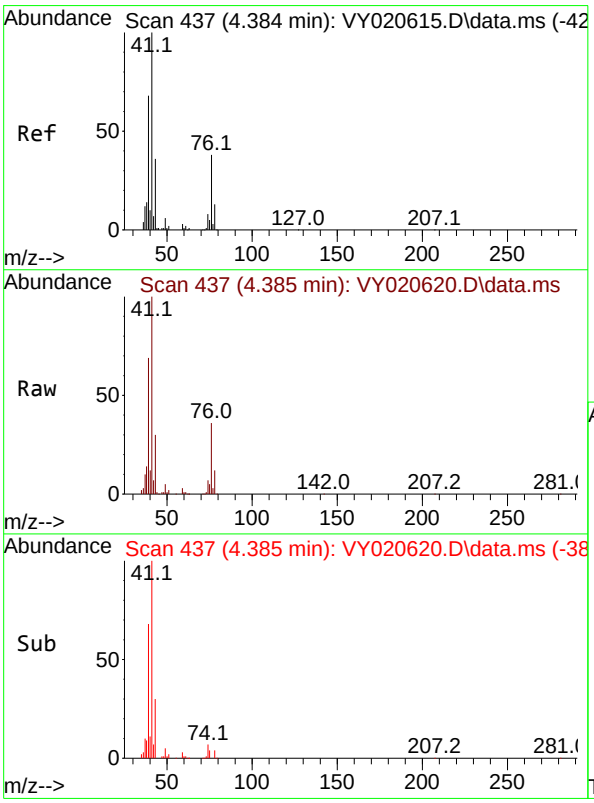

#17
Carbon Disulfide
Concen: 50.444 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 76 Resp: 357372

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.5 | 7.2 | 10.8 |

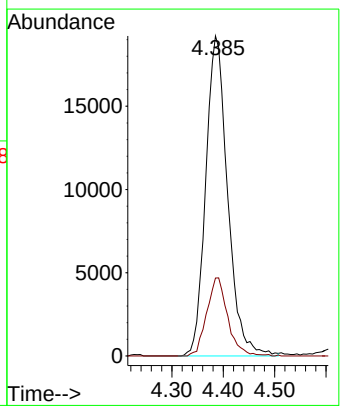


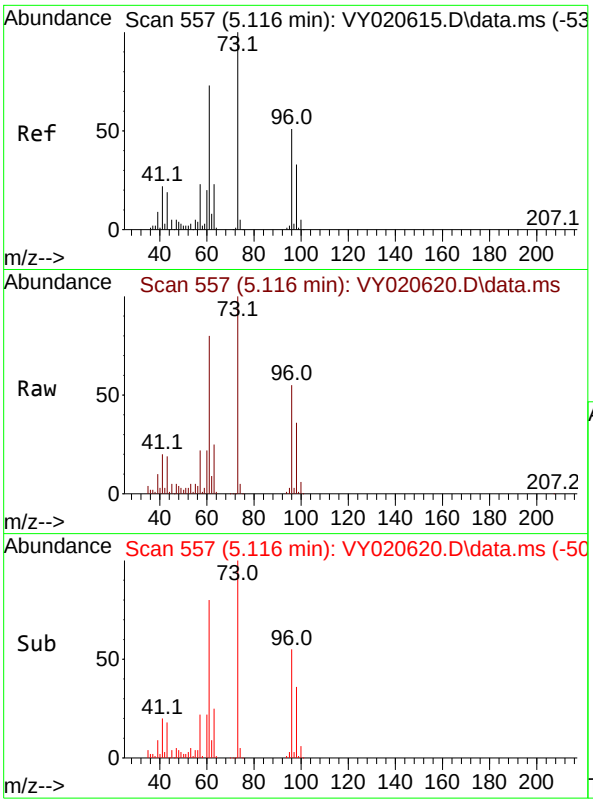




#18
Methyl Acetate
Concen: 44.029 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 56965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.5 | 19.2 | 28.8 |



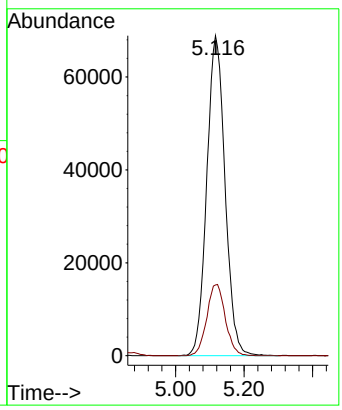


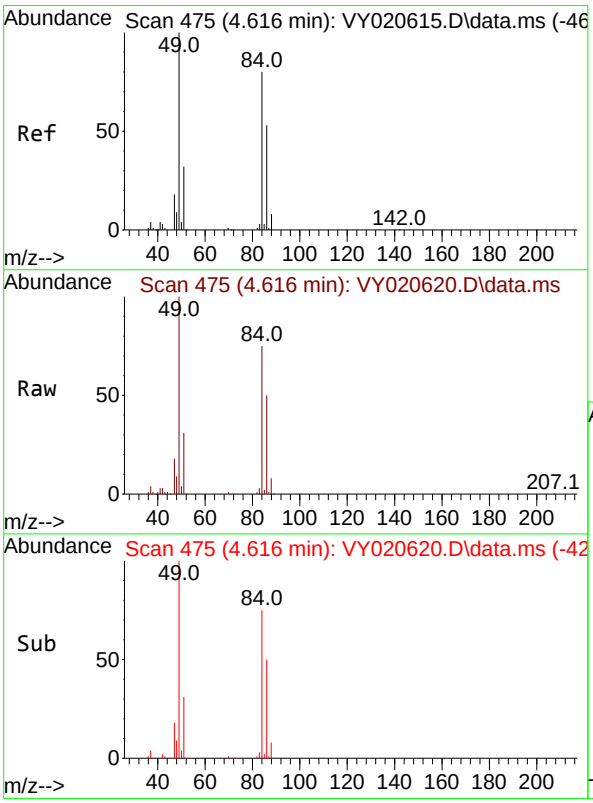

#19
Methyl tert-butyl Ether
Concen: 45.379 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 73 Resp: 254917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 18.5 | 27.7 |

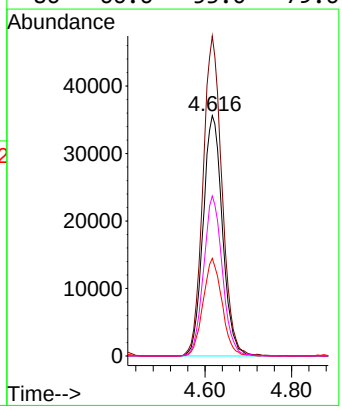


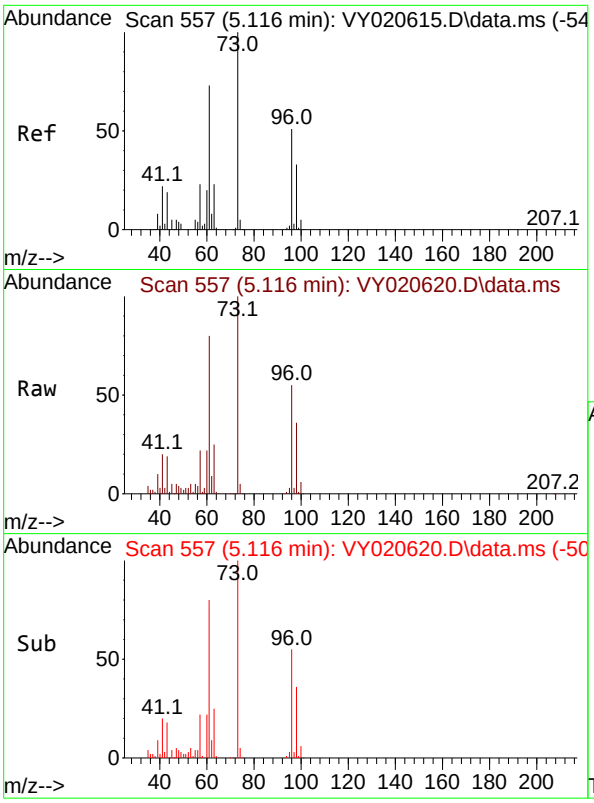




#20
Methylene Chloride
Concen: 46.658 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 84 Resp: 110314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 133.2 | 100.7 | 151.1 |
| 51 | 40.6 | 32.2 | 48.2 |
| 86 | 66.6 | 53.0 | 79.6 |



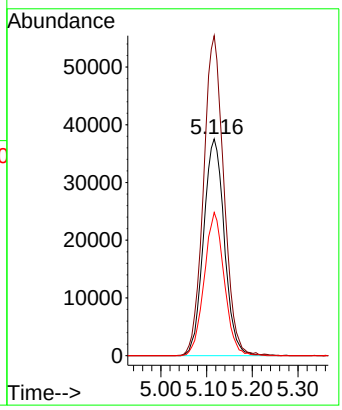


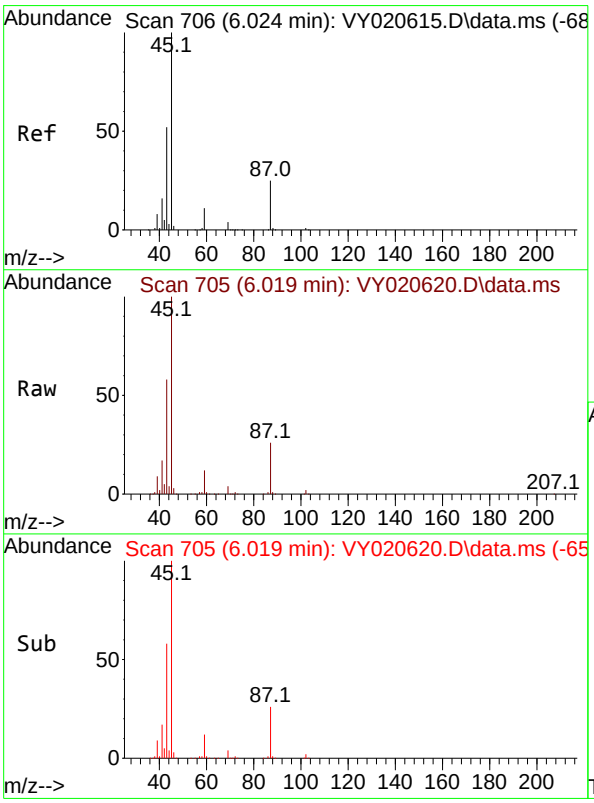

#21
trans-1,2-Dichloroethene
Concen: 48.656 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 96 Resp: 118791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.4 | 113.7 | 170.5 |
| 98 | 66.0 | 51.7 | 77.5 |

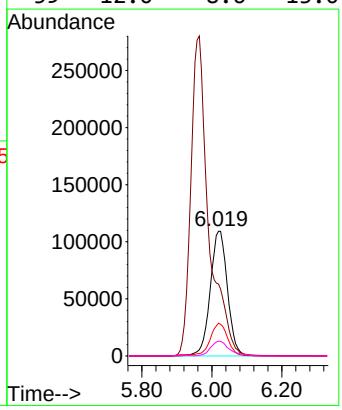


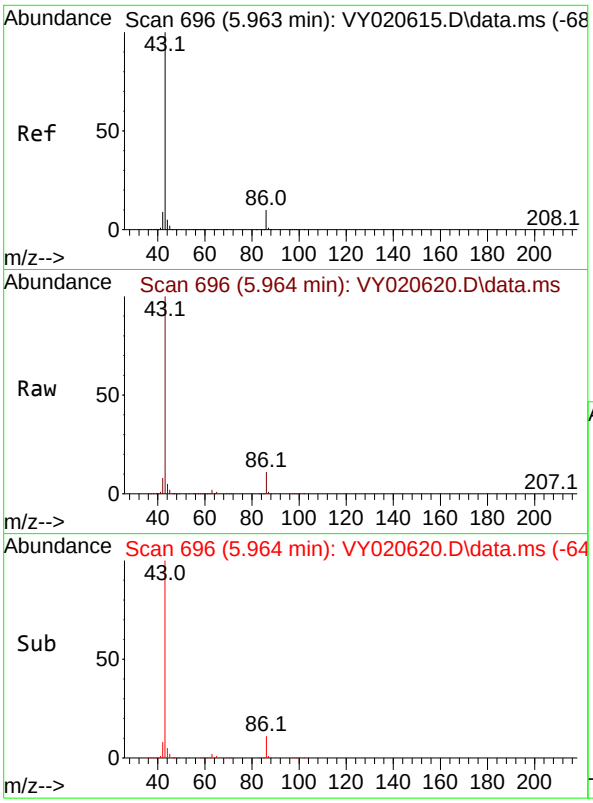




#22
Diisopropyl ether
Concen: 48.223 ug/l
RT: 6.019 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 45 Resp: 373306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.4 | 42.6 | 64.0 |
| 87 | 26.3 | 20.6 | 31.0 |
| 59 | 12.0 | 8.6 | 13.0 |



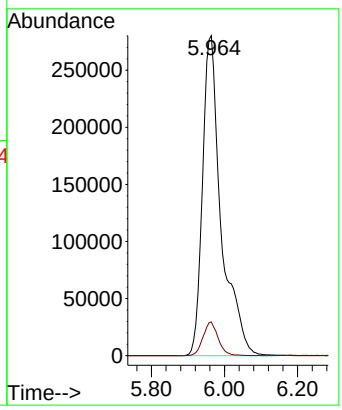


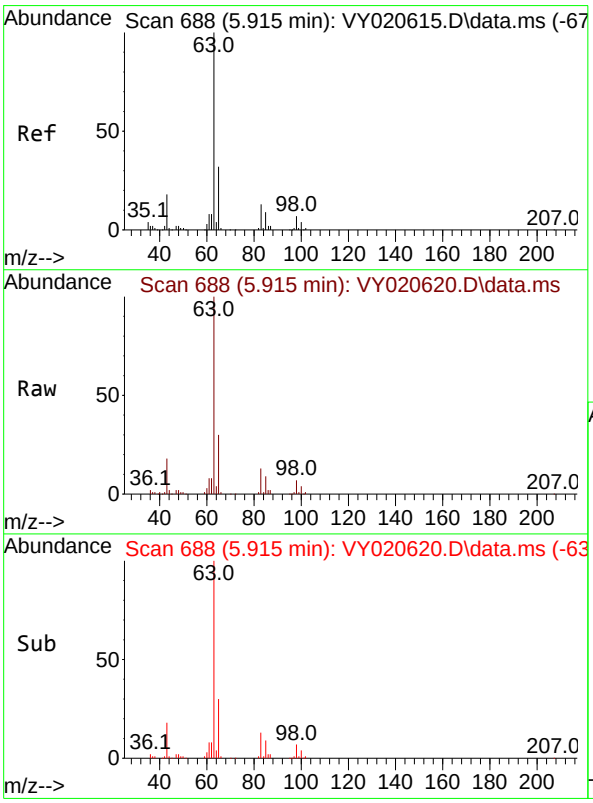

#23
Vinyl Acetate
Concen: 226.581 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 43 Resp: 993429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.6 | 8.1 | 12.1 |

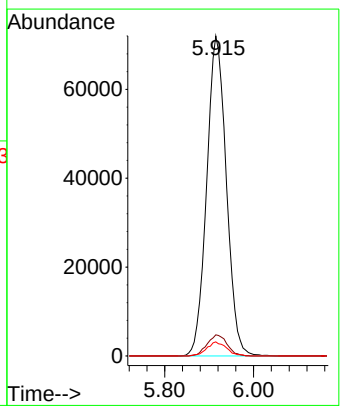


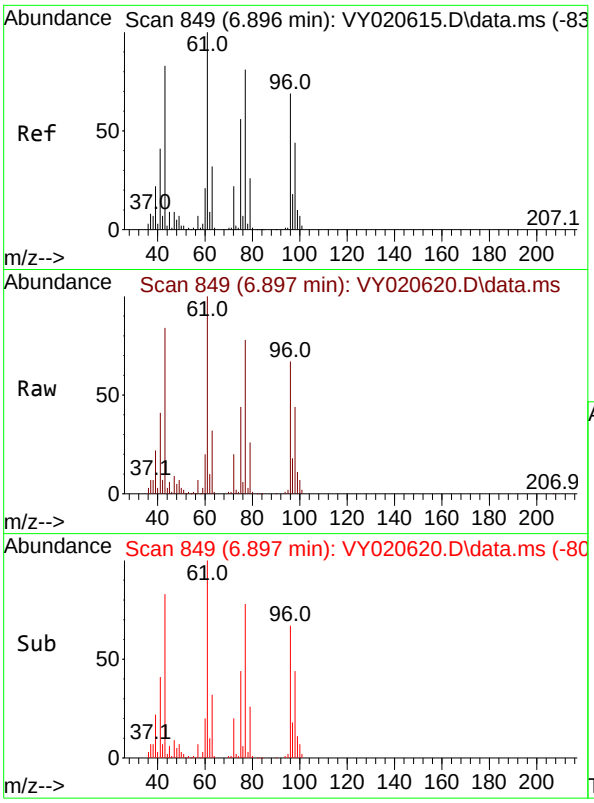




#24
1,1-Dichloroethane
Concen: 48.802 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 63 Resp: 221322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.6 | 3.4 | 10.1 |
| 100 | 4.4 | 2.1 | 6.5 |



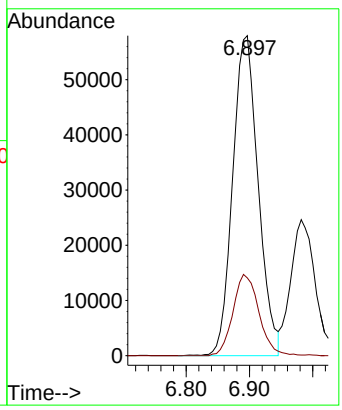


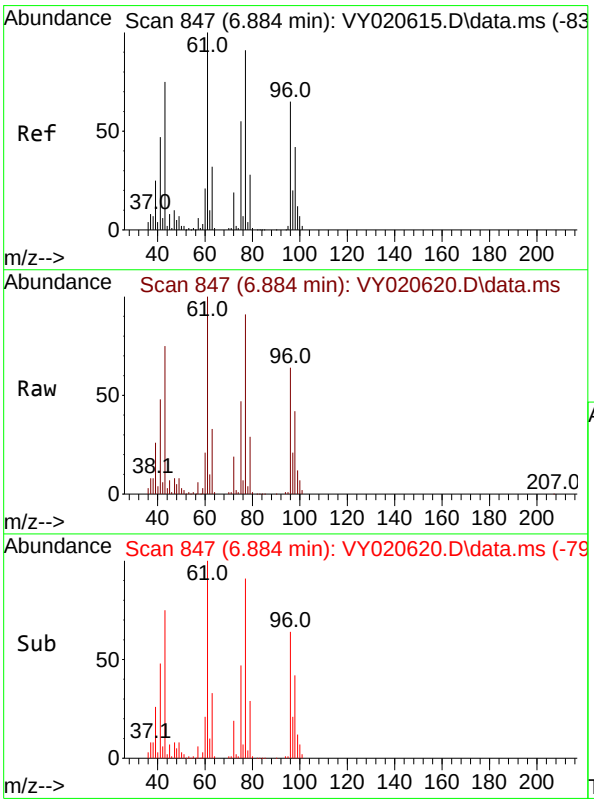

#25
2-Butanone
Concen: 230.232 ug/l
RT: 6.897 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 43 Resp: 162705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.3 | 20.6 | 31.0 |

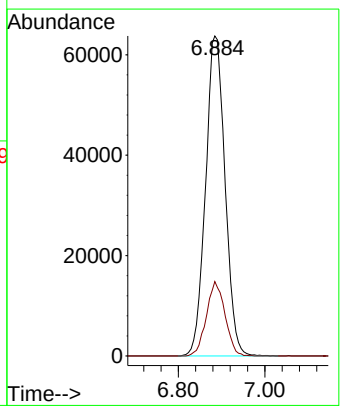


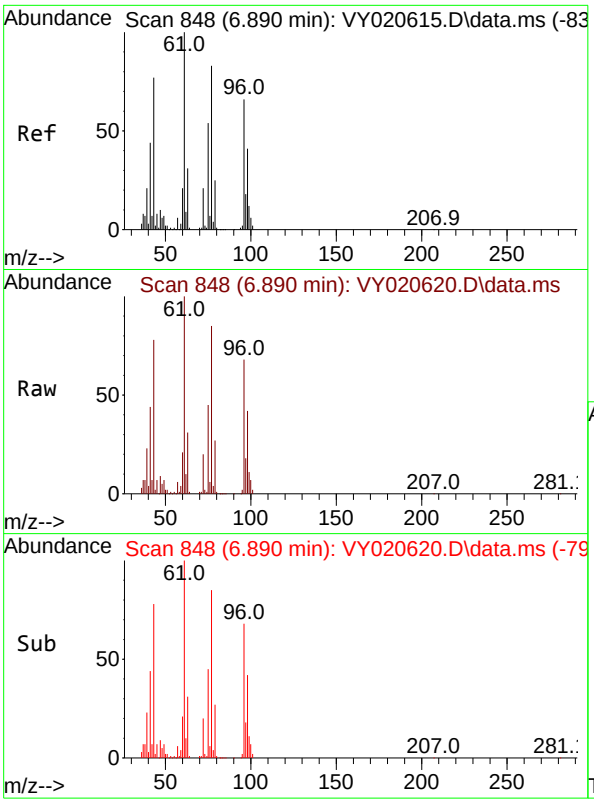




#26
2,2-Dichloropropane
Concen: 46.471 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 77 Resp: 199229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.2 | 10.9 | 32.6 |



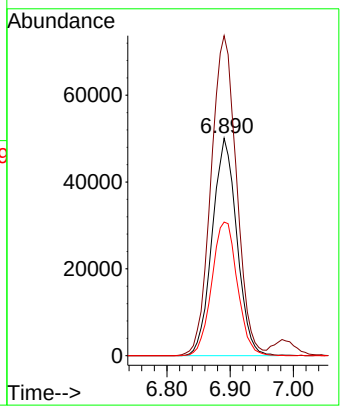


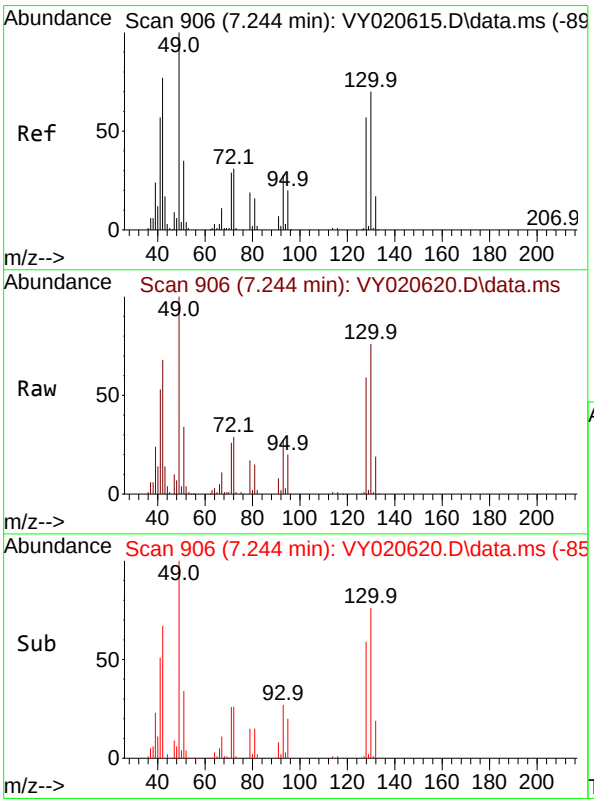

#27
cis-1,2-Dichloroethene
Concen: 48.202 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 96 Resp: 135394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 152.6 | 0.0 | 306.2 |
| 98 | 63.9 | 0.0 | 127.2 |

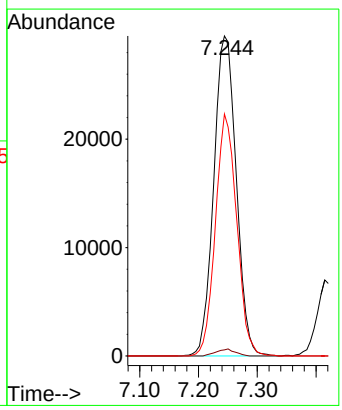


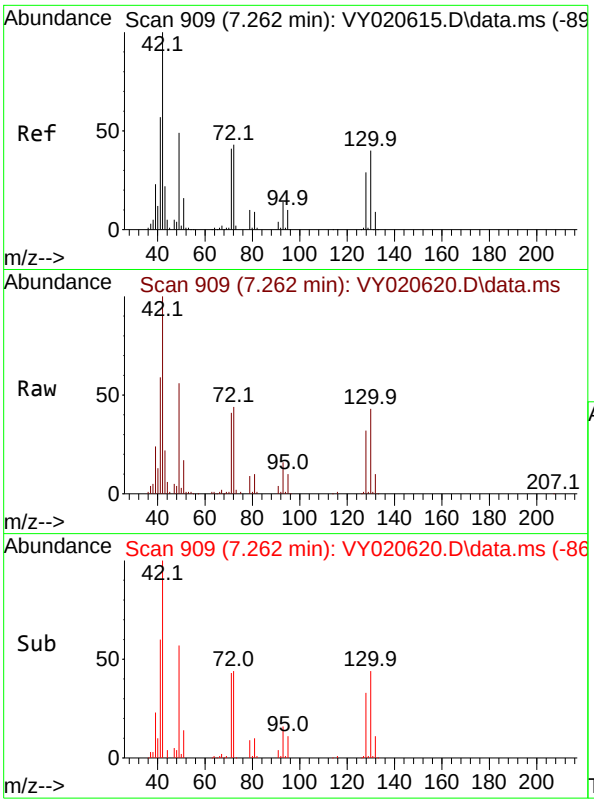




#28
Bromochloromethane
Concen: 51.402 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 49 Resp: 78629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 3.8 |
| 130 | 71.6 | 58.3 | 87.5 |



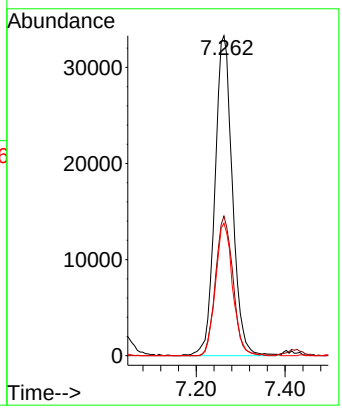


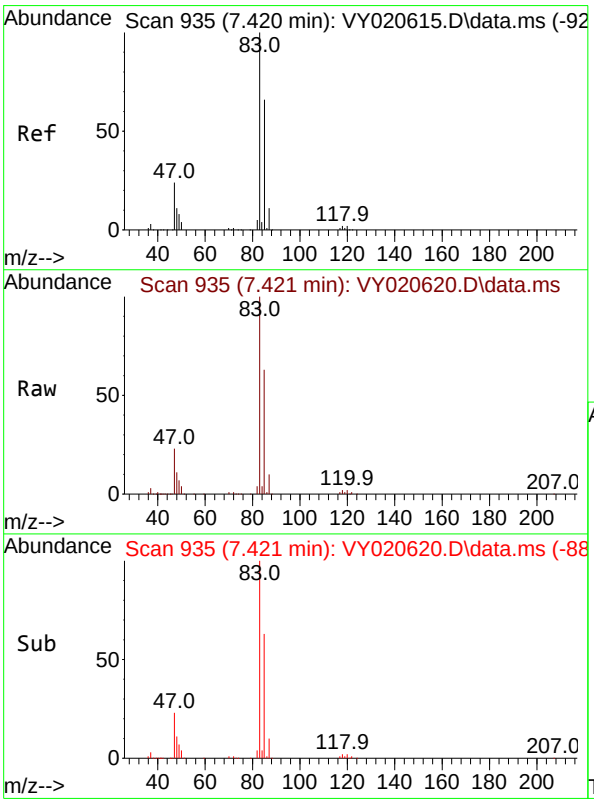

#29
Tetrahydrofuran
Concen: 203.060 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 42 Resp: 90590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 43.4 | 34.0 | 51.0 |
| 71 | 40.8 | 31.6 | 47.4 |

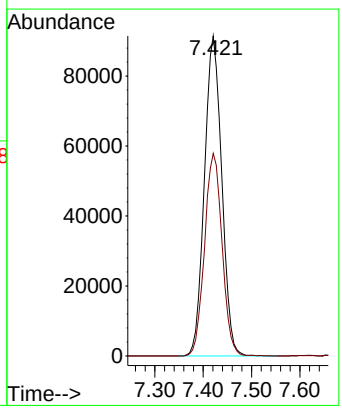


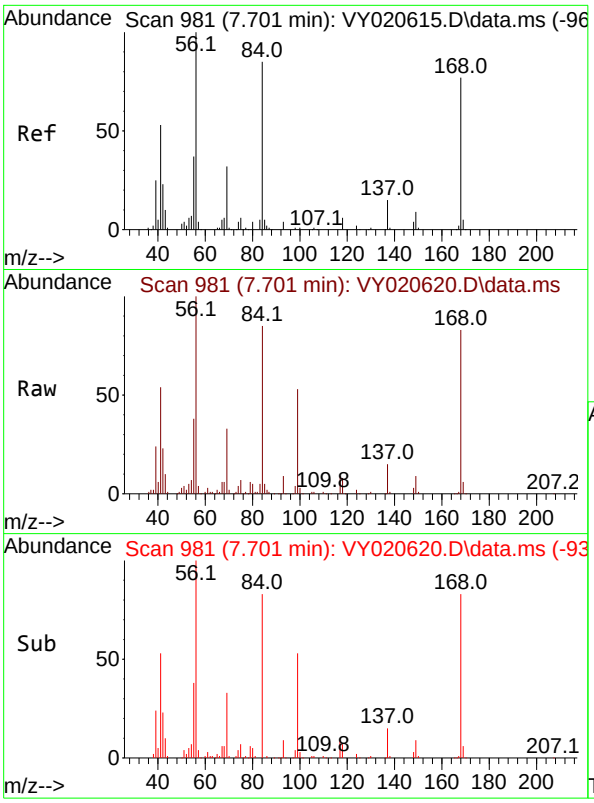




#30
Chloroform
Concen: 49.995 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 83 Resp: 227671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 52.7 | 79.1 |



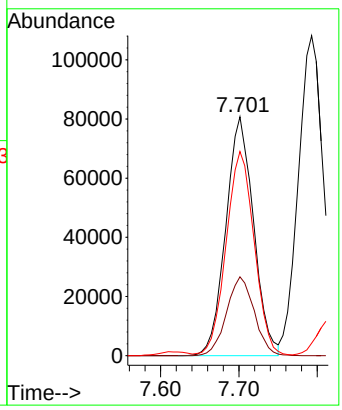


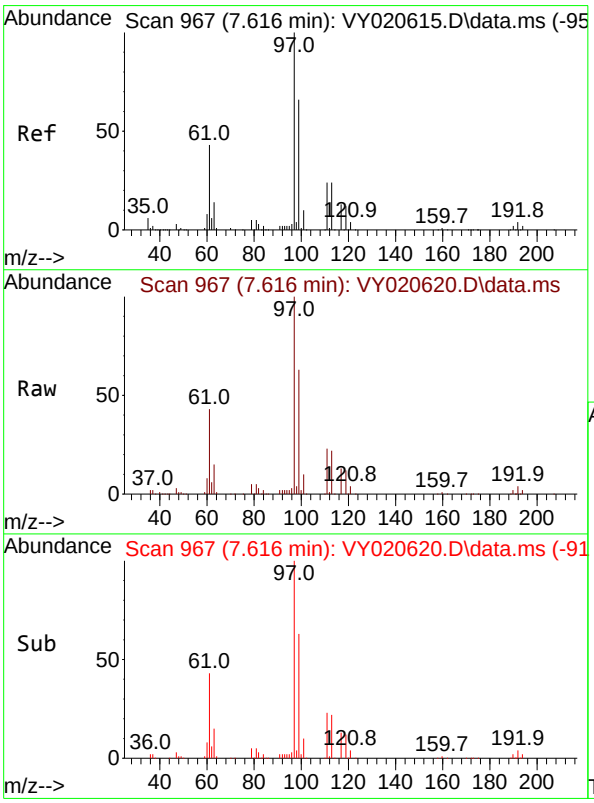

#31
Cyclohexane
Concen: 45.921 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 56 Resp: 199127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.0 | 25.4 | 38.0 |
| 84 | 83.9 | 68.3 | 102.5 |

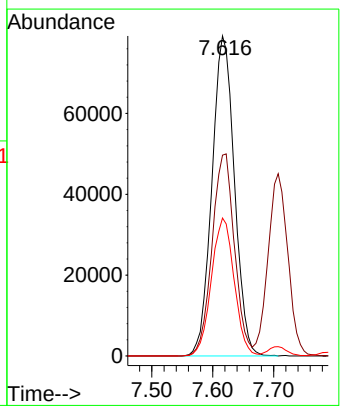


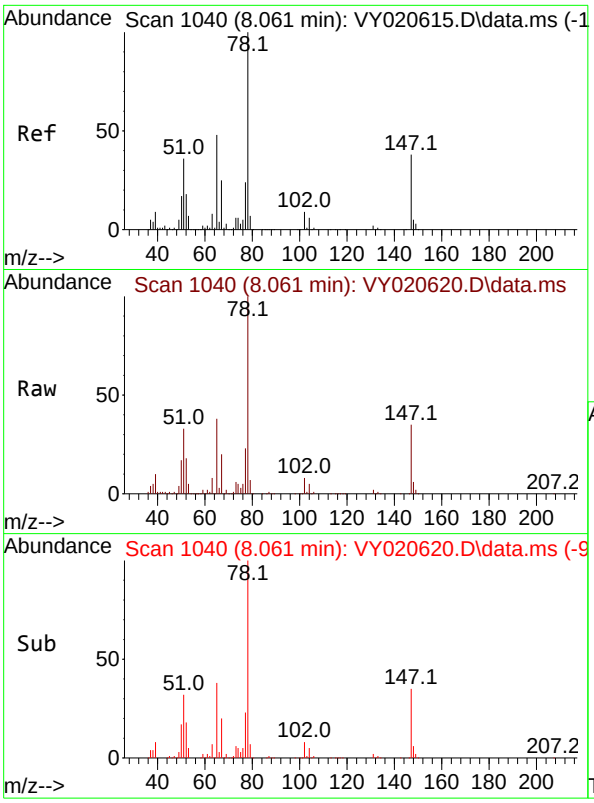




#32
1,1,1-Trichloroethane
Concen: 48.837 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 97 Resp: 203477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.1 | 51.6 | 77.4 |
| 61 | 43.6 | 34.7 | 52.1 |



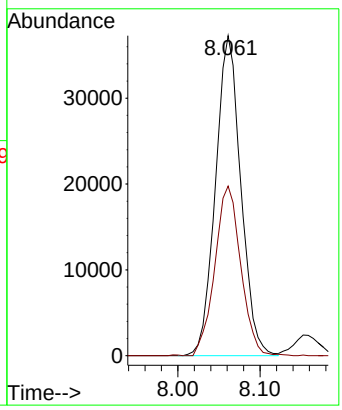


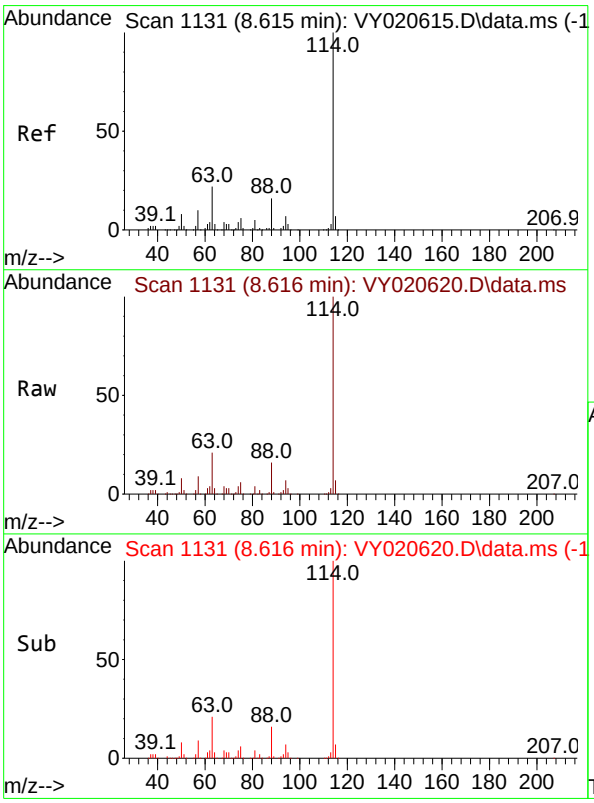

#33
1,2-Dichloroethane-d4
Concen: 41.971 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 65 Resp: 79812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.2 | 0.0 | 108.0 |

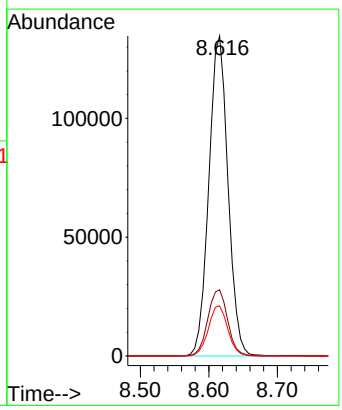


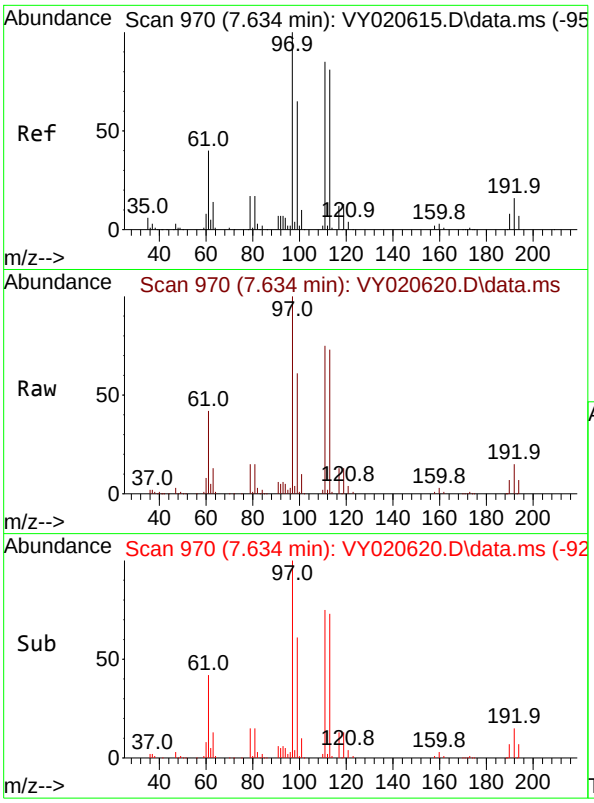




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:114 Resp: 261652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 44.0 |
| 88 | 15.6 | 0.0 | 32.8 |



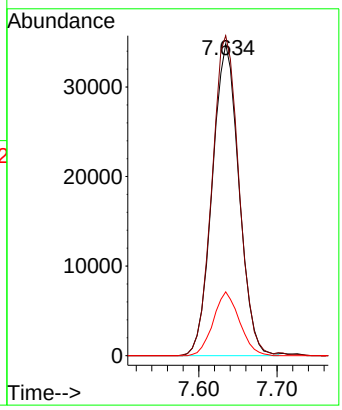


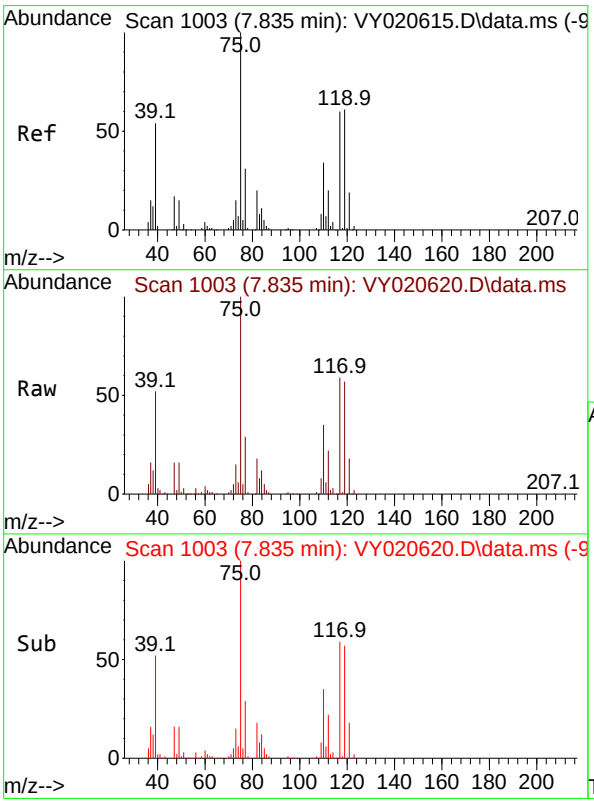

#35
Dibromofluoromethane
Concen: 44.743 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:113 Resp: 82508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.7 | 82.9 | 124.3 |
| 192 | 20.0 | 15.7 | 23.5 |

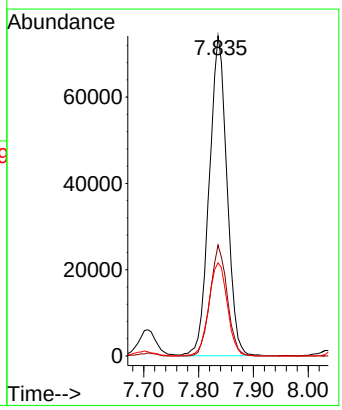


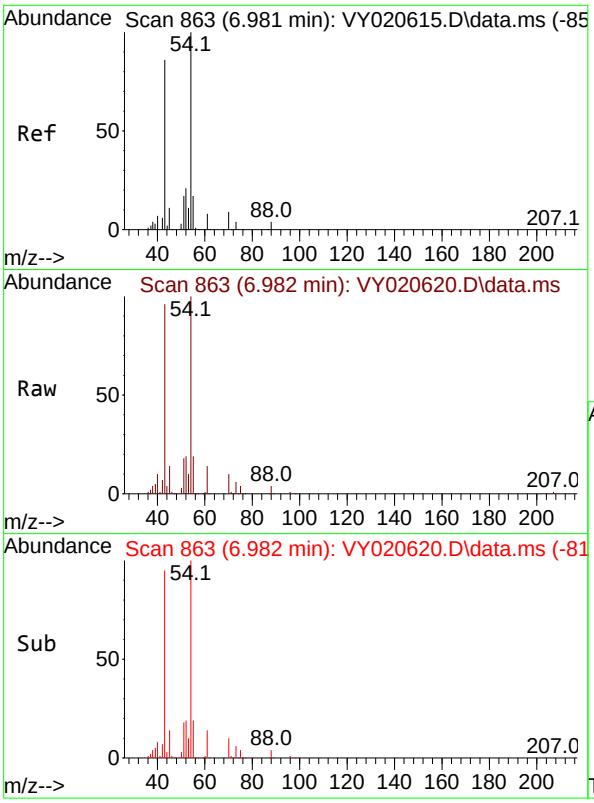




#36
1,1-Dichloropropene
Concen: 49.418 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 75 Resp: 166171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.6 | 16.8 | 50.4 |
| 77 | 30.5 | 25.0 | 37.6 |



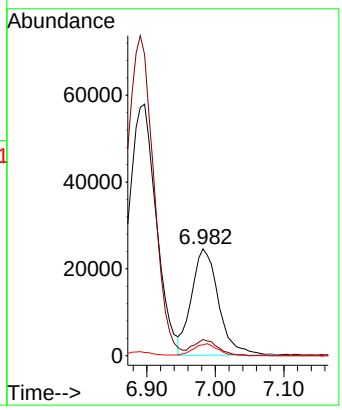


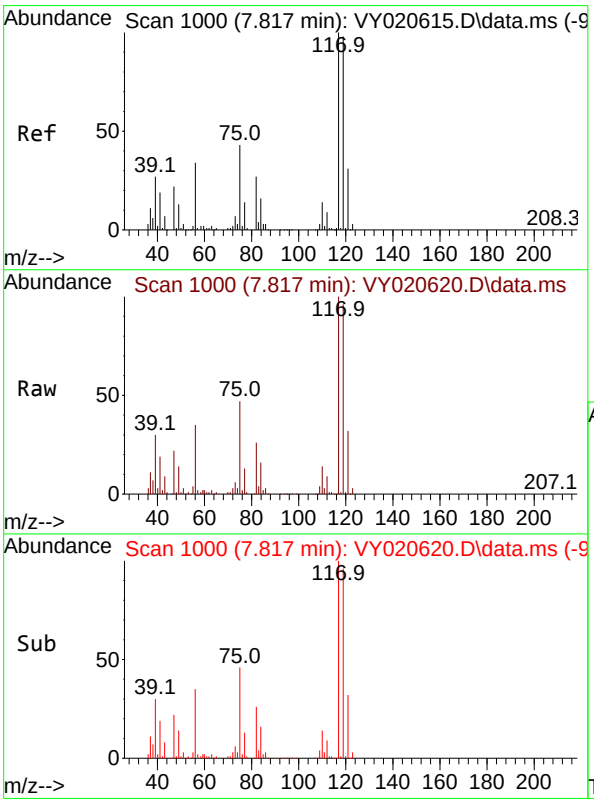

#37
Ethyl Acetate
Concen: 42.490 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 43 Resp: 67205

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.1 | 11.0 | 16.4 |
| 70 | 10.4 | 7.9 | 11.9 |

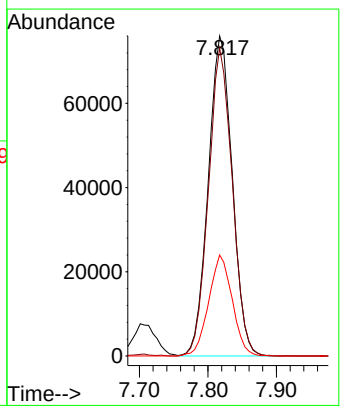


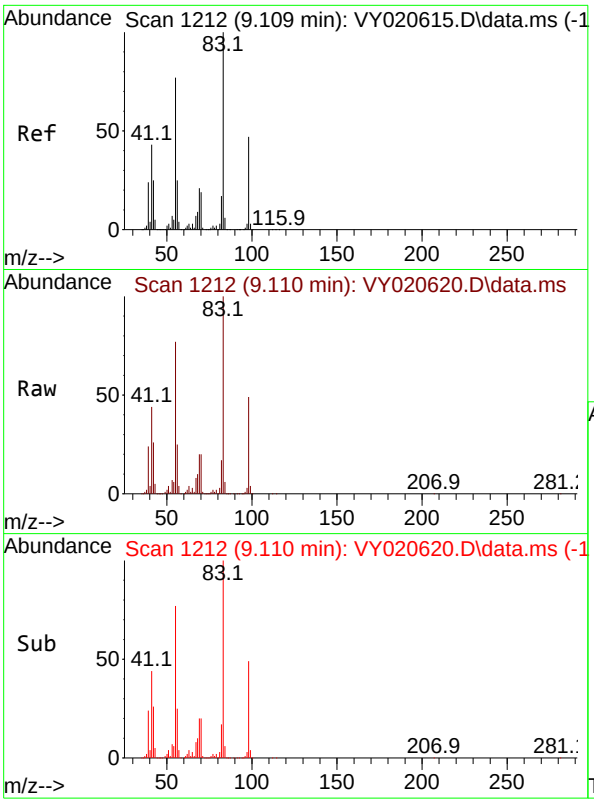




#38
Carbon Tetrachloride
Concen: 49.800 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:117 Resp: 185268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.3 | 78.3 | 117.5 |
| 121 | 31.5 | 25.1 | 37.7 |



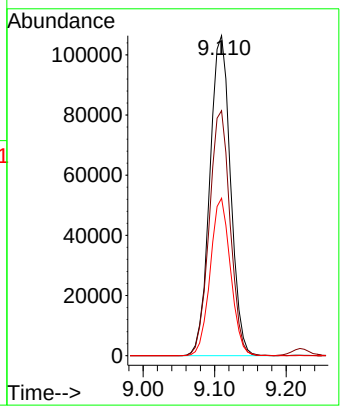


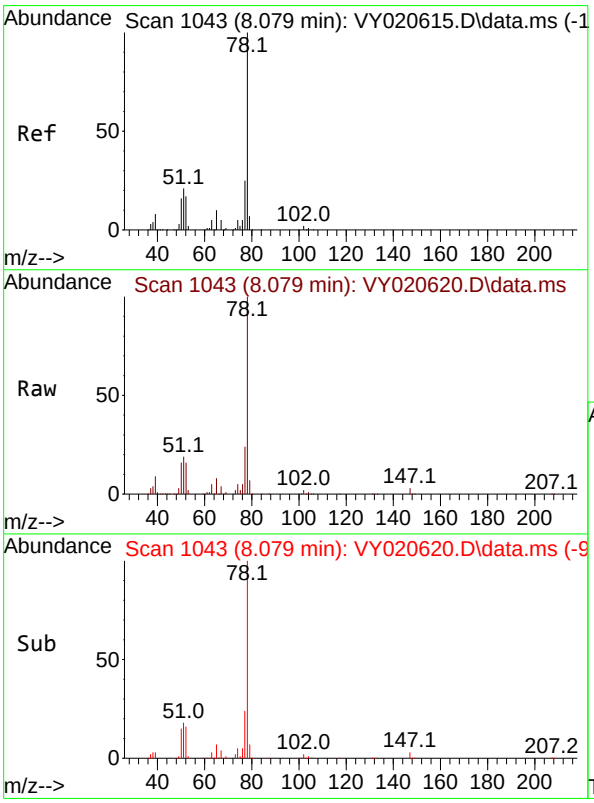

#39
Methylcyclohexane
Concen: 48.913 ug/l
RT: 9.110 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 83 Resp: 214365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.6 | 61.4 | 92.0 |
| 98 | 49.2 | 37.3 | 55.9 |

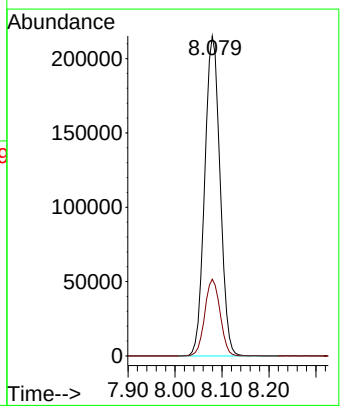


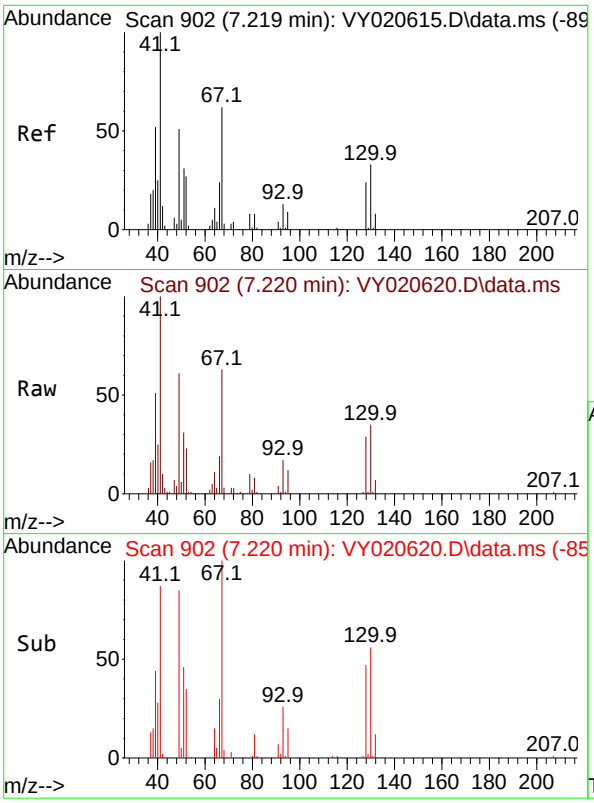




#40
Benzene
Concen: 49.357 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 78 Resp: 486468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 20.1 | 30.1 |



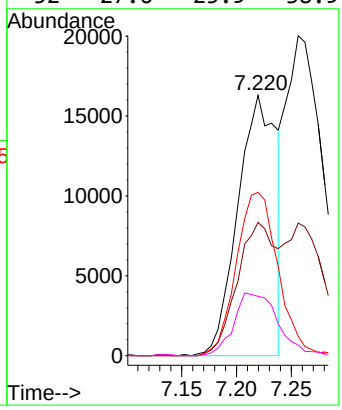


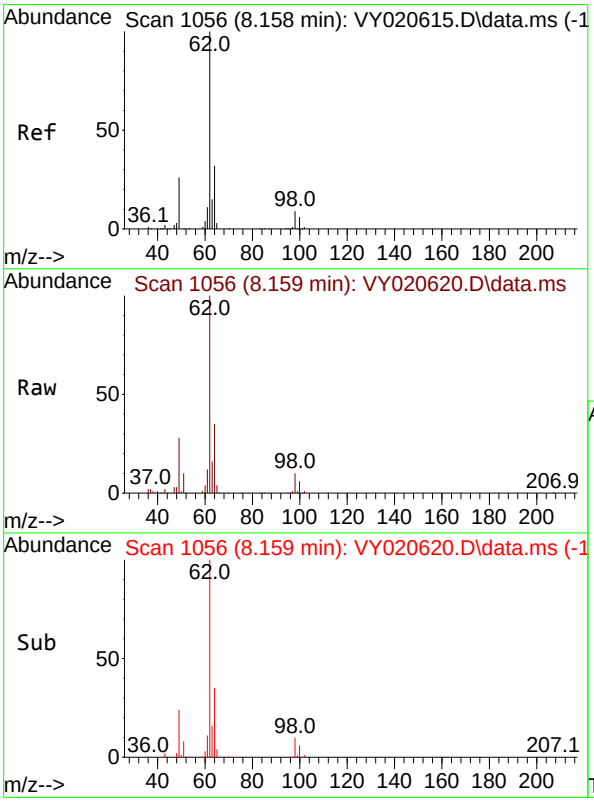

#41
Methacrylonitrile
Concen: 47.631 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 41 Resp: 39828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.2 | 53.6 | 80.4# |
| 67 | 68.3 | 62.0 | 93.0 |
| 52 | 27.6 | 25.9 | 38.9 |

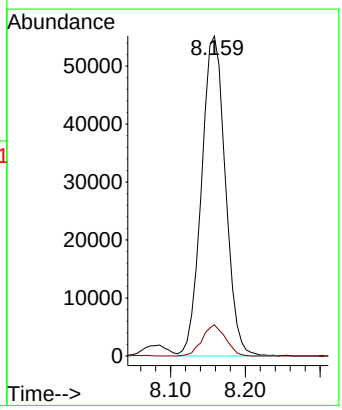


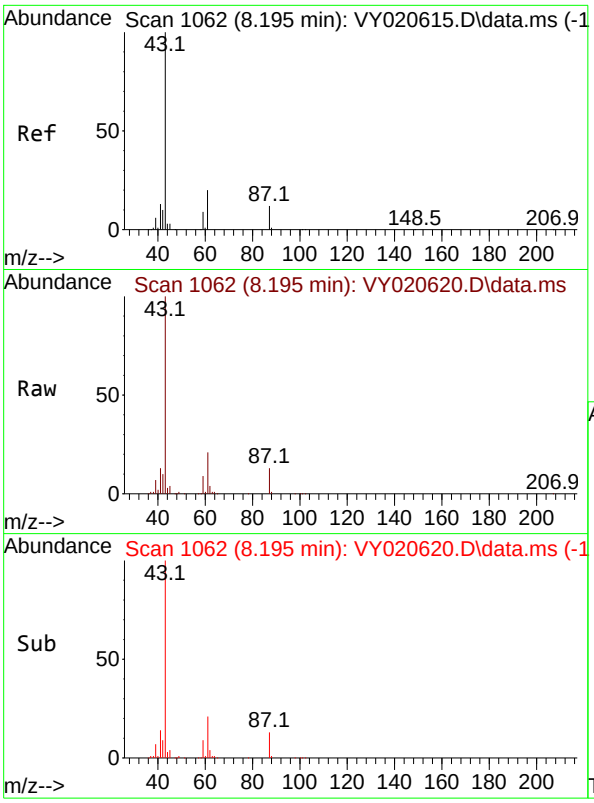




#42
1,2-Dichloroethane
Concen: 46.869 ug/l
RT: 8.159 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 62 Resp: 122520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.4 | 0.0 | 18.0 |



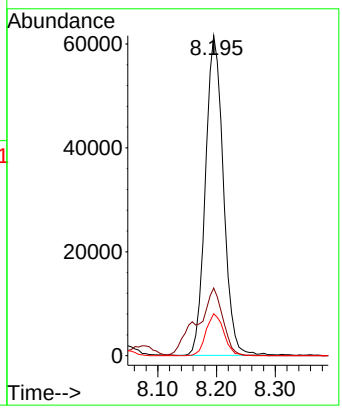


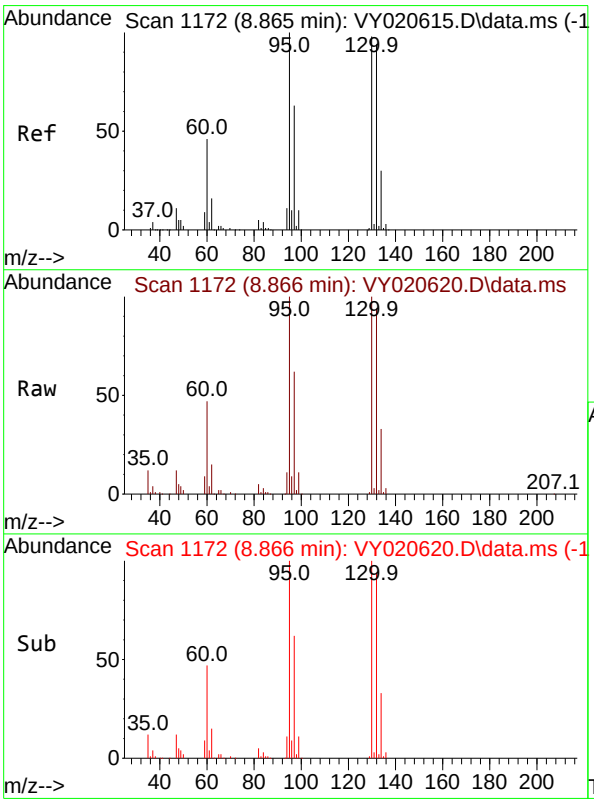

#43
Isopropyl Acetate
Concen: 43.528 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 43 Resp: 130339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.2 | 23.8 | 35.6# |
| 87 | 13.1 | 10.2 | 15.4 |

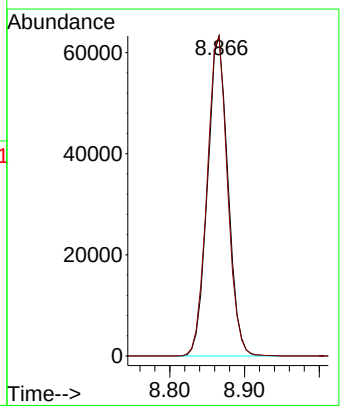


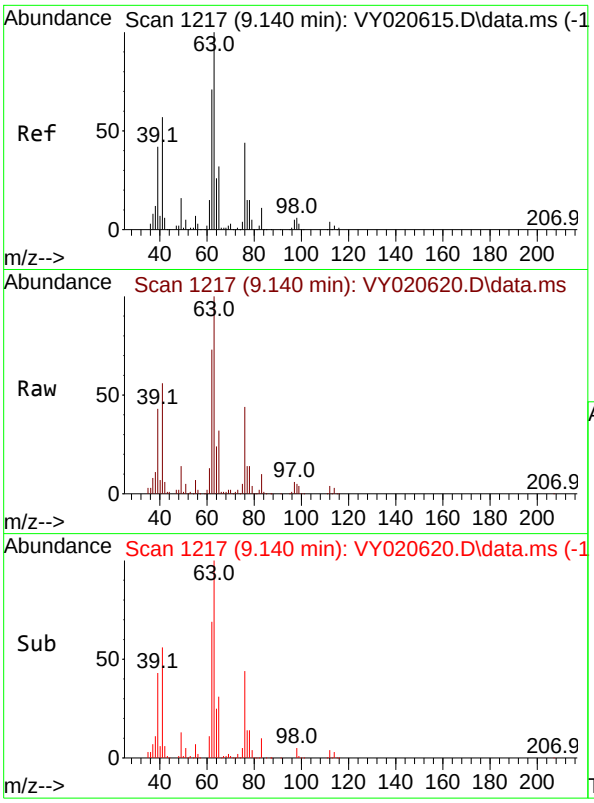




#44
Trichloroethene
Concen: 49.555 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:130 Resp: 120014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.1 | 0.0 | 203.2 |



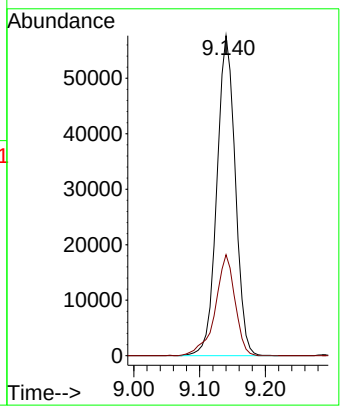


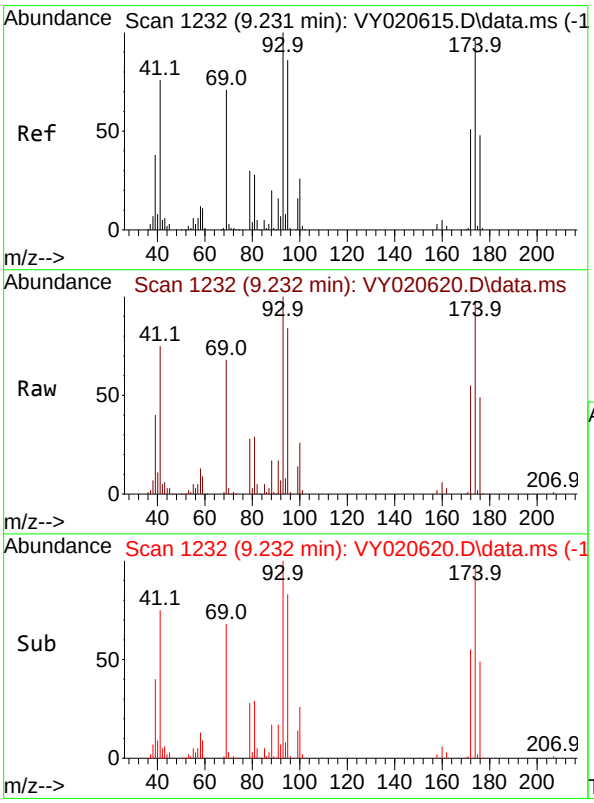

#45
1,2-Dichloropropane
Concen: 48.695 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 63 Resp: 112171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.5 | 25.9 | 38.9 |

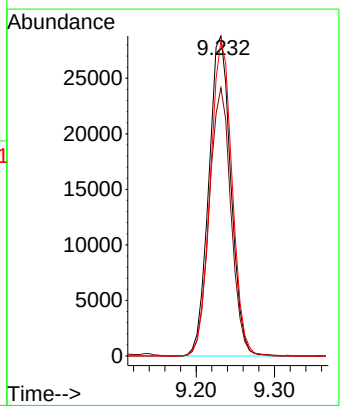


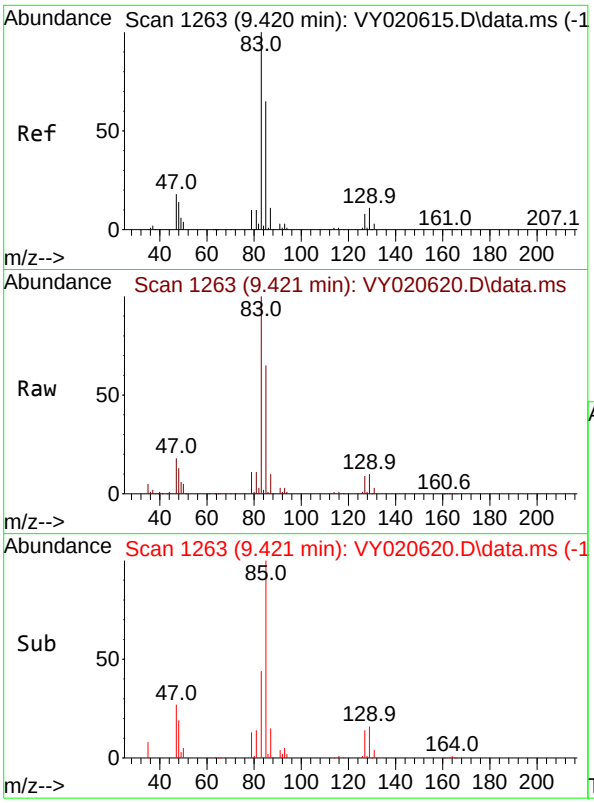




#46
Dibromomethane
Concen: 46.265 ug/l
RT: 9.232 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 93 Resp: 56323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.4 | 66.7 | 100.1 |
| 174 | 97.6 | 77.8 | 116.6 |



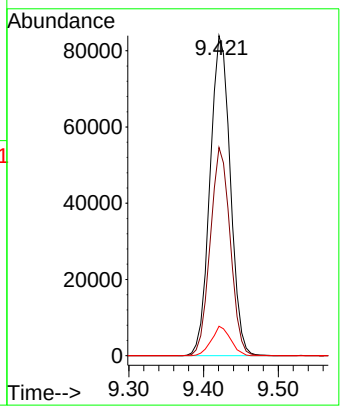


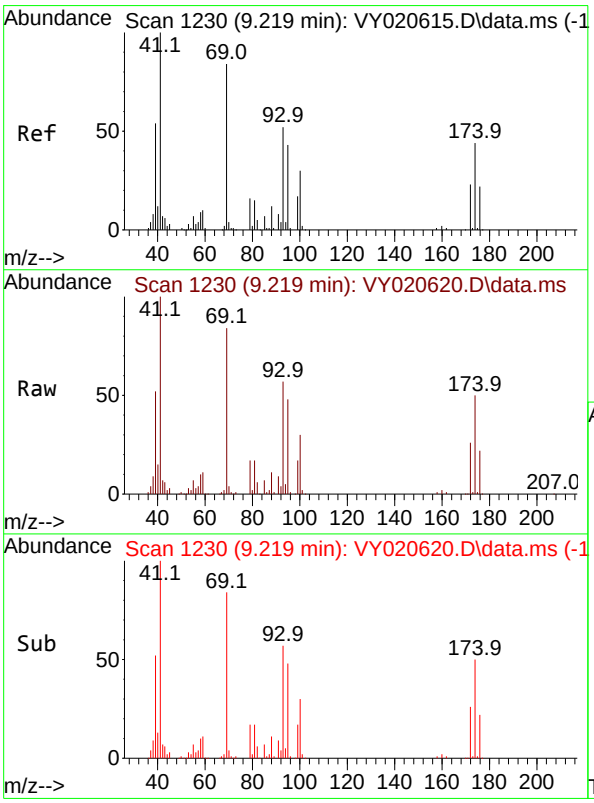

#47
Bromodichloromethane
Concen: 48.208 ug/l
RT: 9.421 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 83 Resp: 158529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 52.1 | 78.1 |
| 127 | 9.2 | 6.7 | 10.1 |

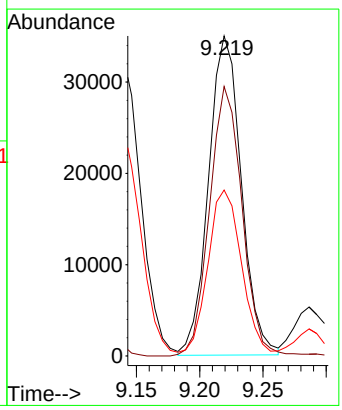


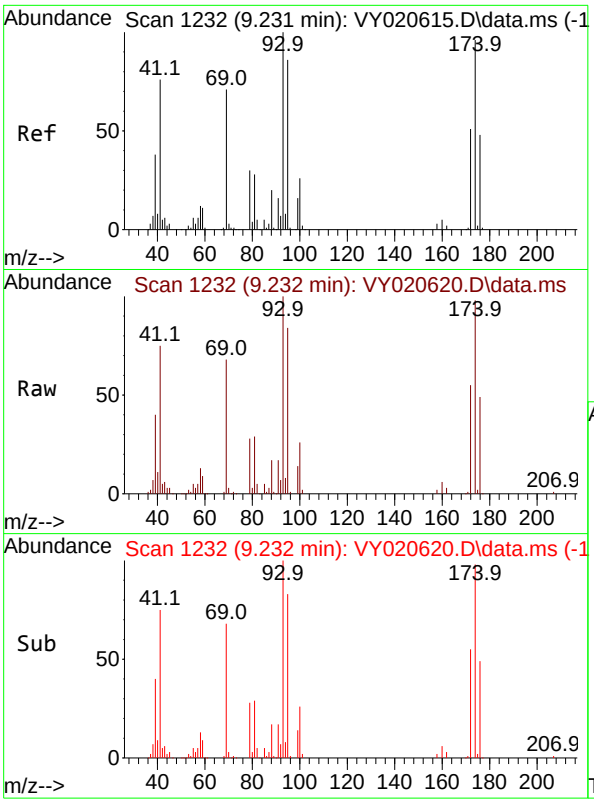




#48
Methyl methacrylate
Concen: 44.268 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 41 Resp: 63016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.2 | 67.2 | 100.8 |
| 39 | 51.5 | 42.2 | 63.4 |



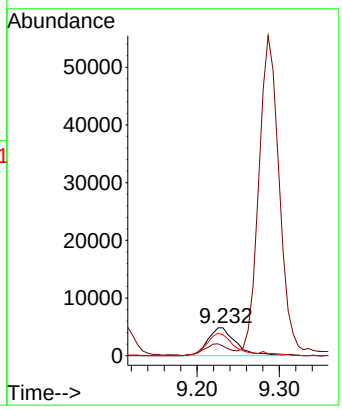


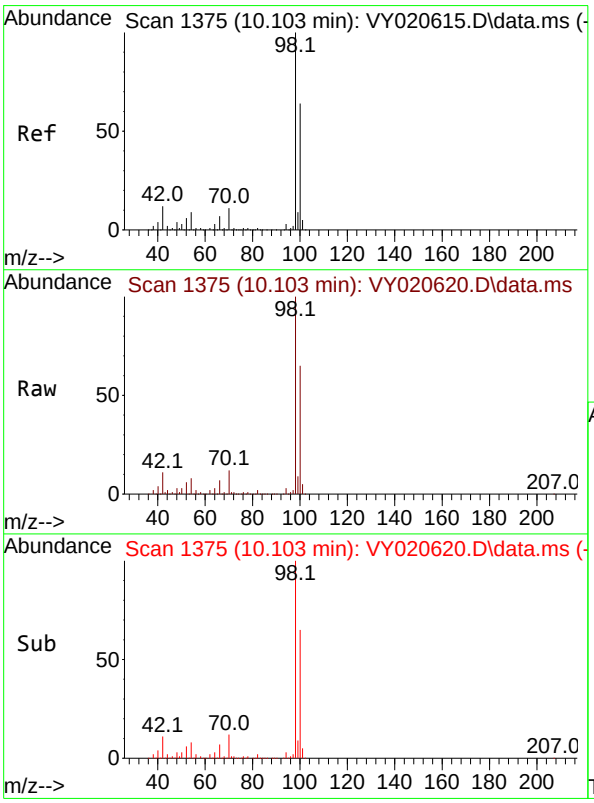

#49
1,4-Dioxane
Concen: 816.119 ug/l
RT: 9.232 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 88 Resp: 11394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 38.7 | 27.6 | 41.4 |
| 58 | 75.9 | 61.7 | 92.5 |

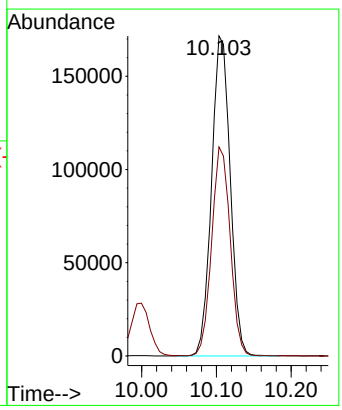


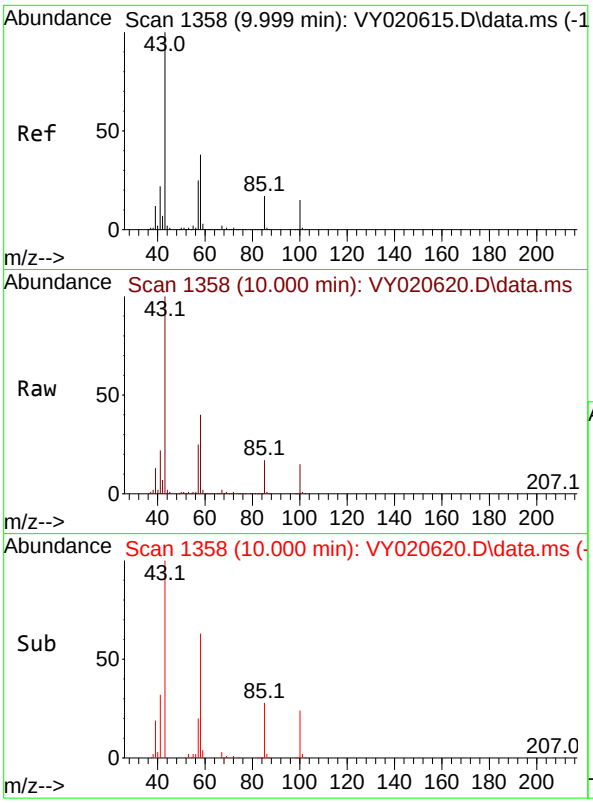




#50
Toluene-d8
Concen: 46.169 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 98 Resp: 297999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.1 | 78.1 |



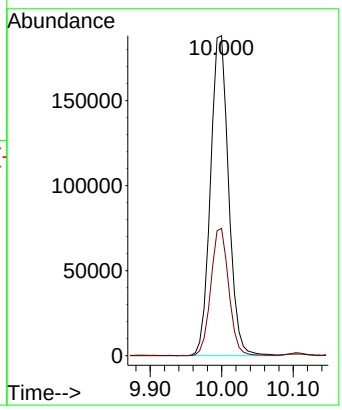


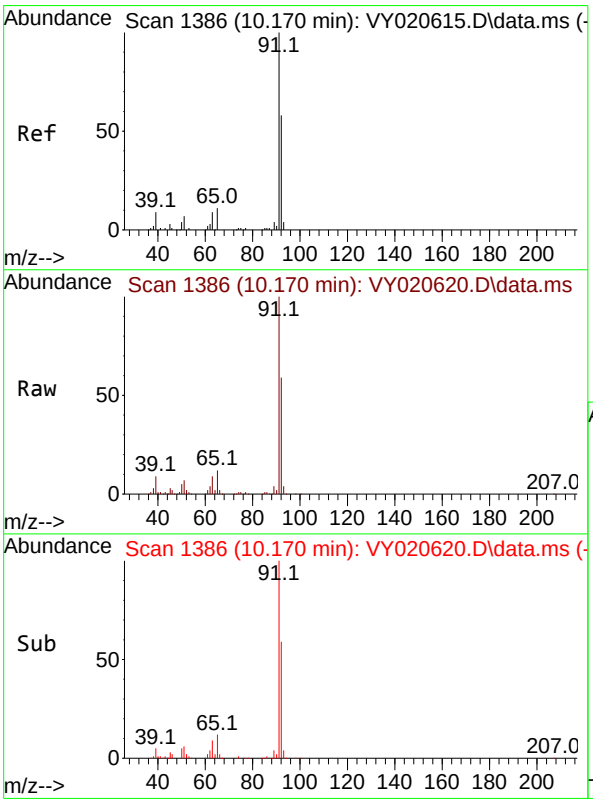

#51
4-Methyl-2-Pentanone
Concen: 209.670 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 43 Resp: 331396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.3 | 31.4 | 47.2 |

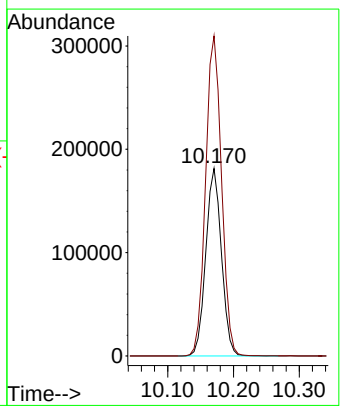


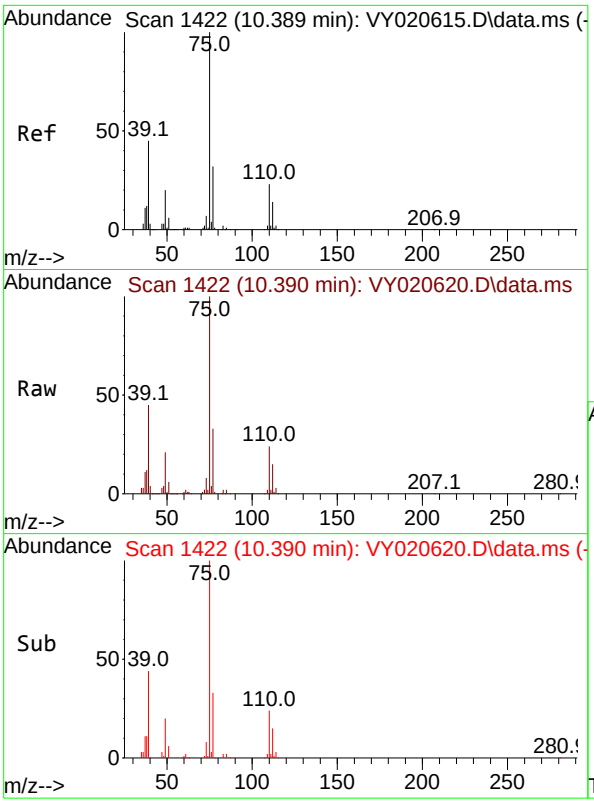




#52
Toluene
Concen: 49.073 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 92 Resp: 300584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.8 | 137.4 | 206.0 |



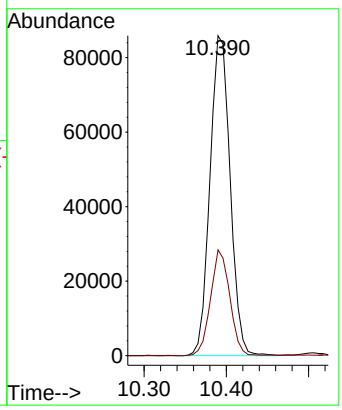


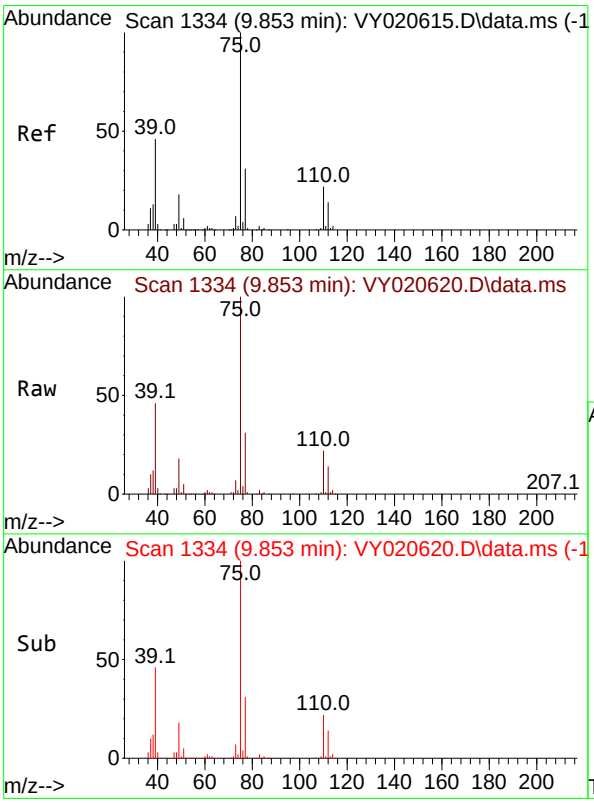

#53
t-1,3-Dichloropropene
Concen: 47.810 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 75 Resp: 146498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.0 | 25.4 | 38.2 |

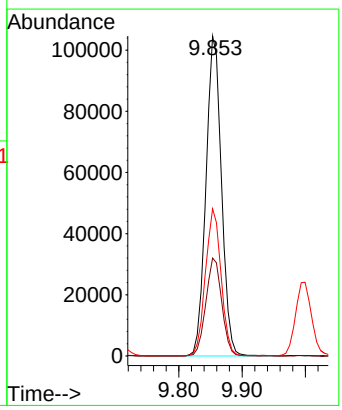


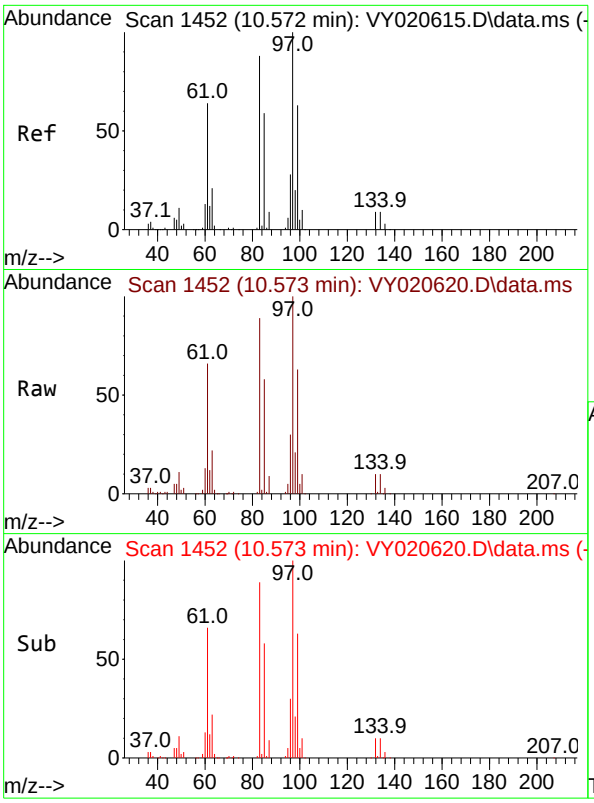




#54
cis-1,3-Dichloropropene
Concen: 49.184 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 75 Resp: 178584

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.6 | 24.6 | 36.8 |
| 39 | 45.9 | 36.4 | 54.6 |



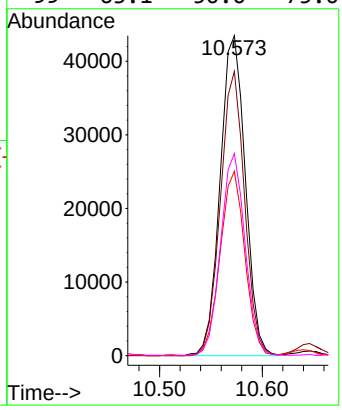


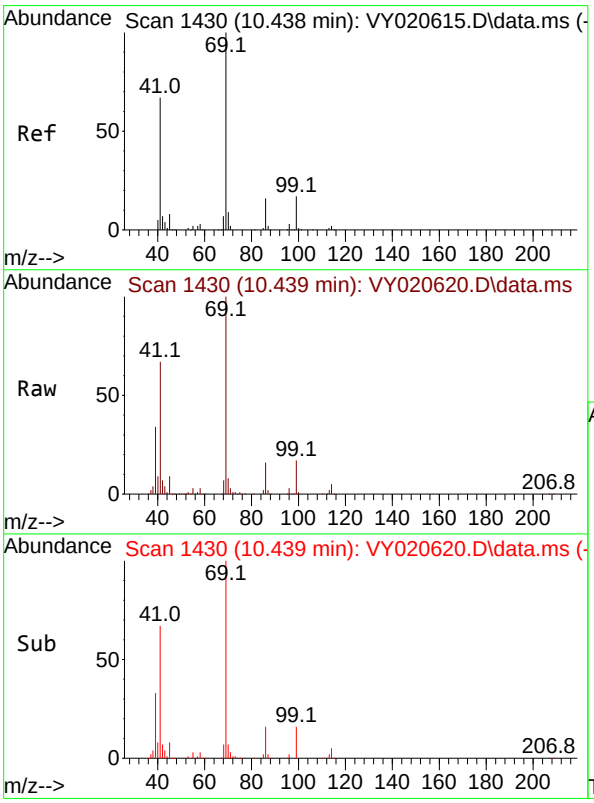

#55
1,1,2-Trichloroethane
Concen: 45.952 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 97 Resp: 73962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.7 | 70.4 | 105.6 |
| 85 | 57.6 | 47.2 | 70.8 |
| 99 | 63.1 | 50.0 | 75.0 |

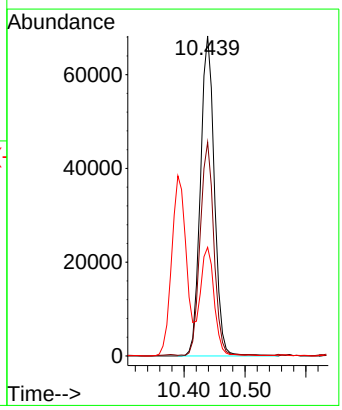


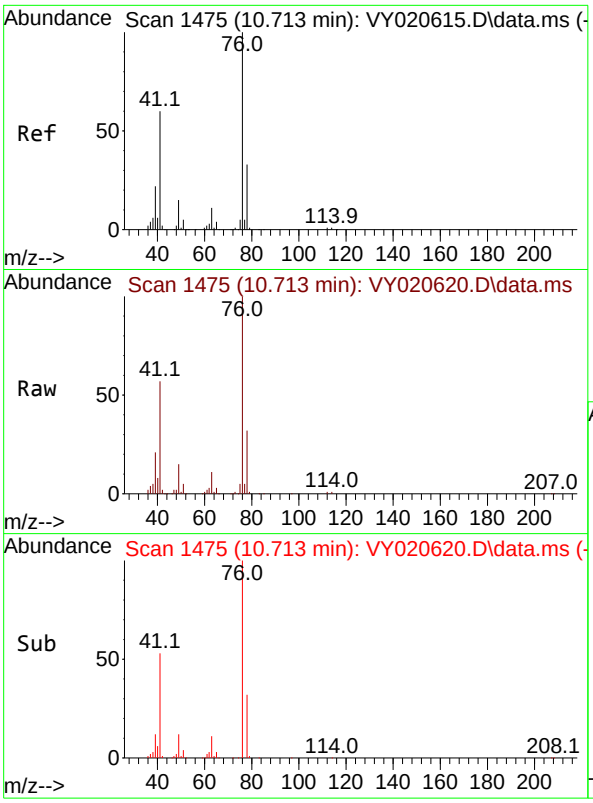




#56
Ethyl methacrylate
Concen: 46.525 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 69 Resp: 108638

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.7 | 54.0 | 81.0 |
| 39 | 34.3 | 27.9 | 41.9 |



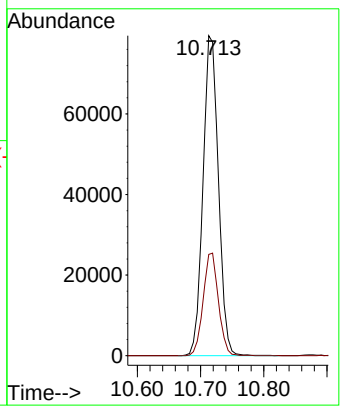


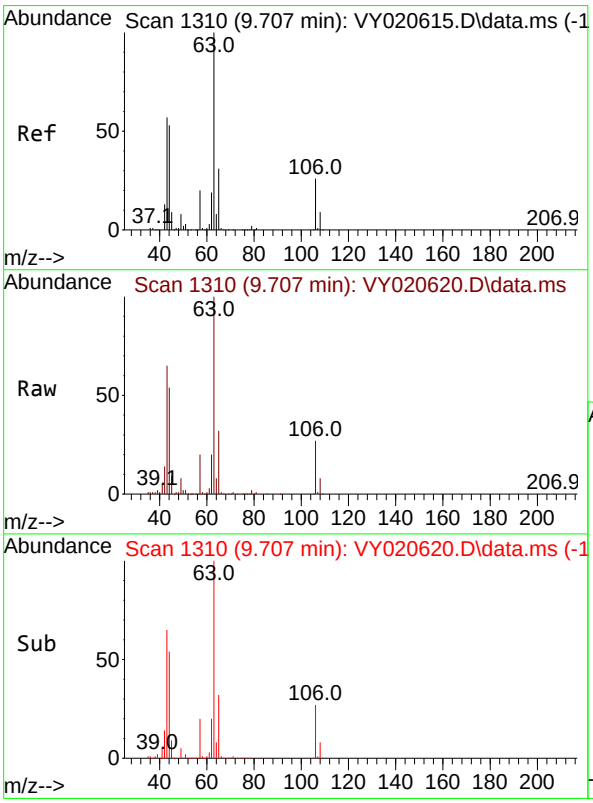

#57
1,3-Dichloropropane
Concen: 46.882 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 76 Resp: 134515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.8 | 25.8 | 38.8 |

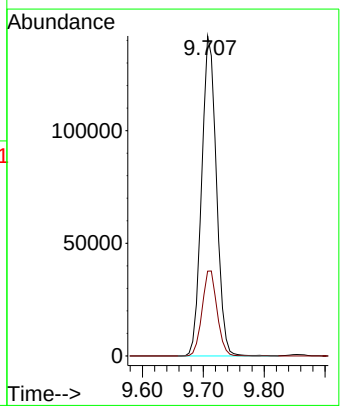


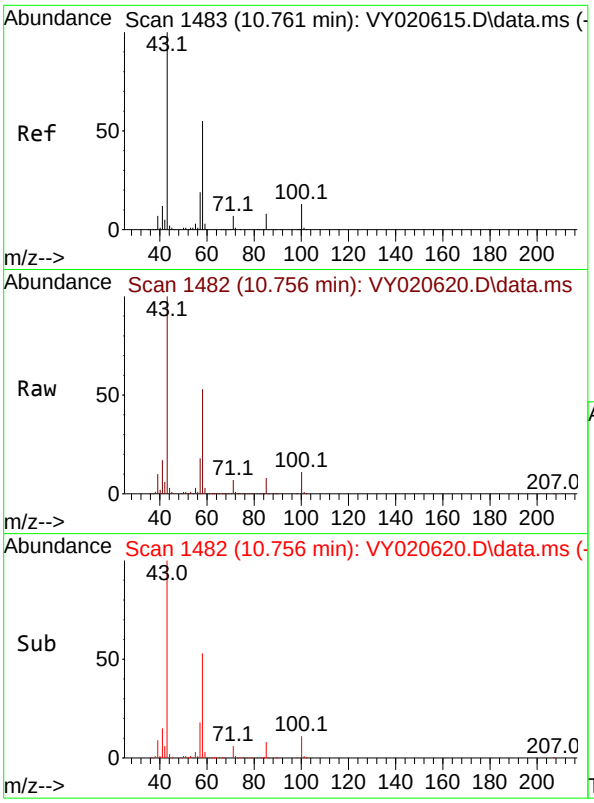




#58
2-Chloroethyl Vinyl ether
Concen: 243.610 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 63 Resp: 239347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 26.9 | 21.5 | 32.3 |



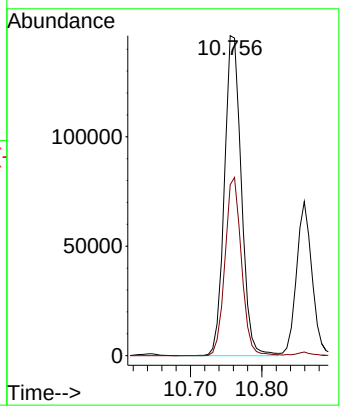


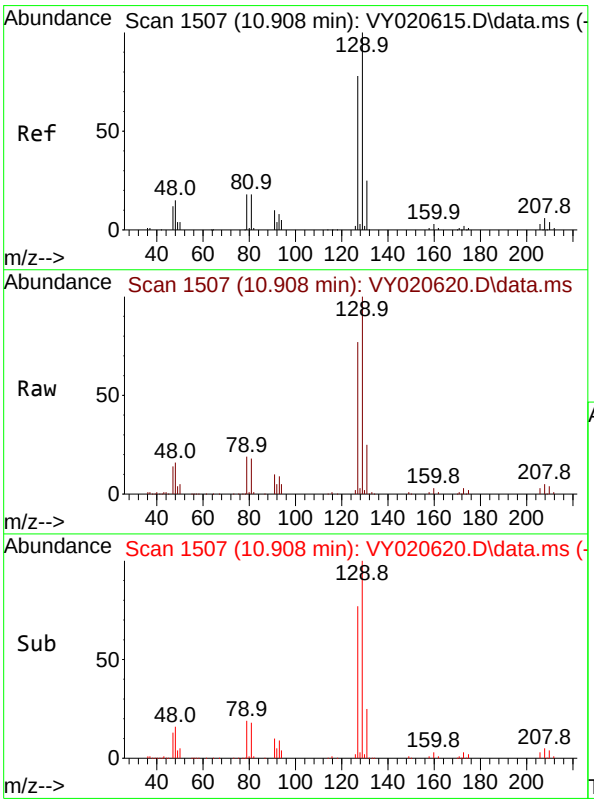

#59
2-Hexanone
Concen: 236.822 ug/l
RT: 10.756 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 43 Resp: 240324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.2 | 27.2 | 81.6 |

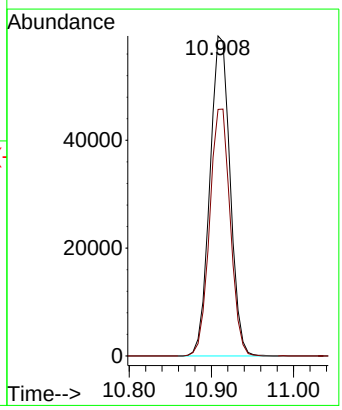


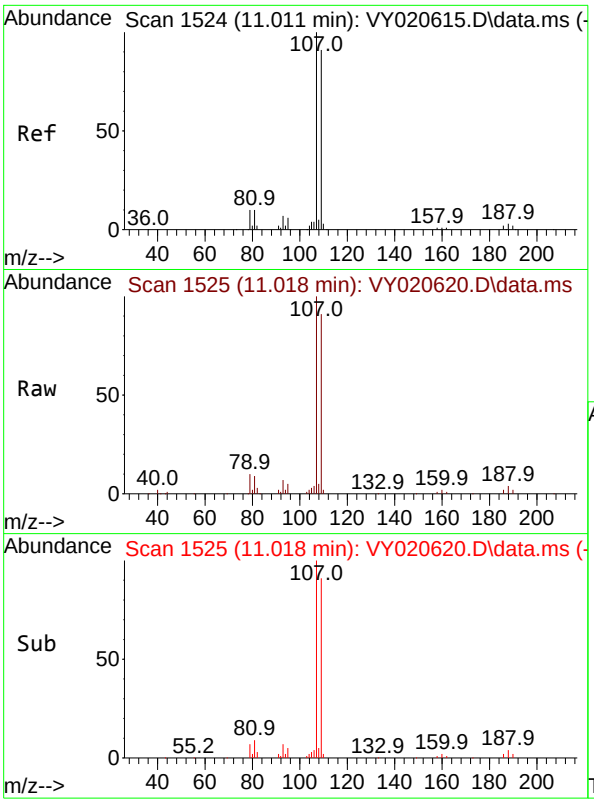




#60
Dibromochloromethane
Concen: 47.121 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:129 Resp: 101431

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.4 | 38.1 | 114.3 |



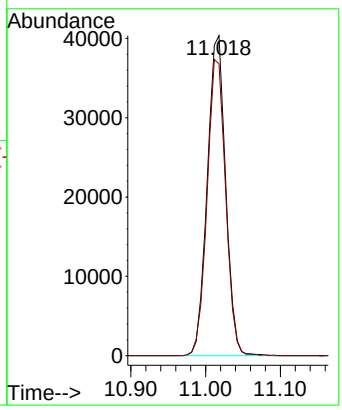


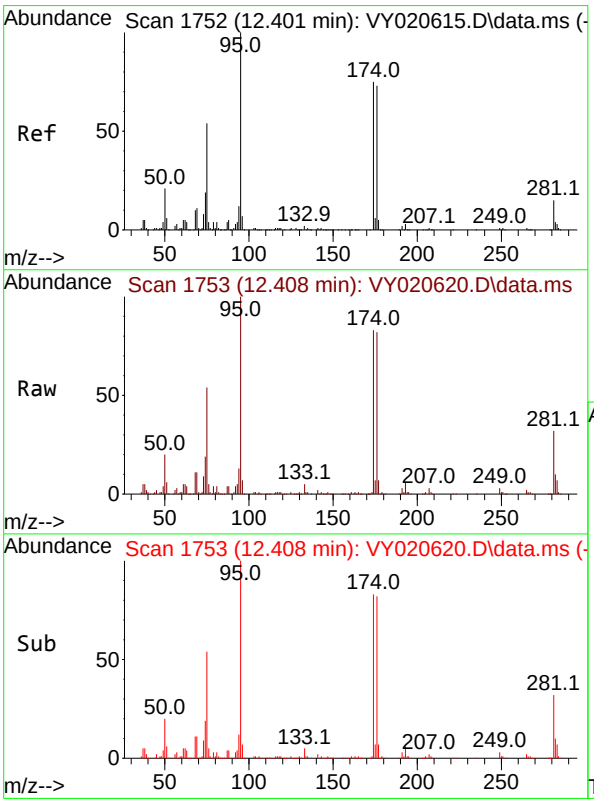

#61
1,2-Dibromoethane
Concen: 45.952 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:107 Resp: 68798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.4 | 75.4 | 113.2 |

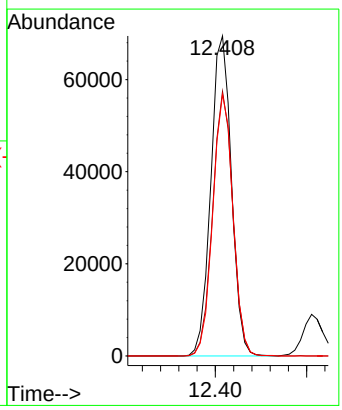


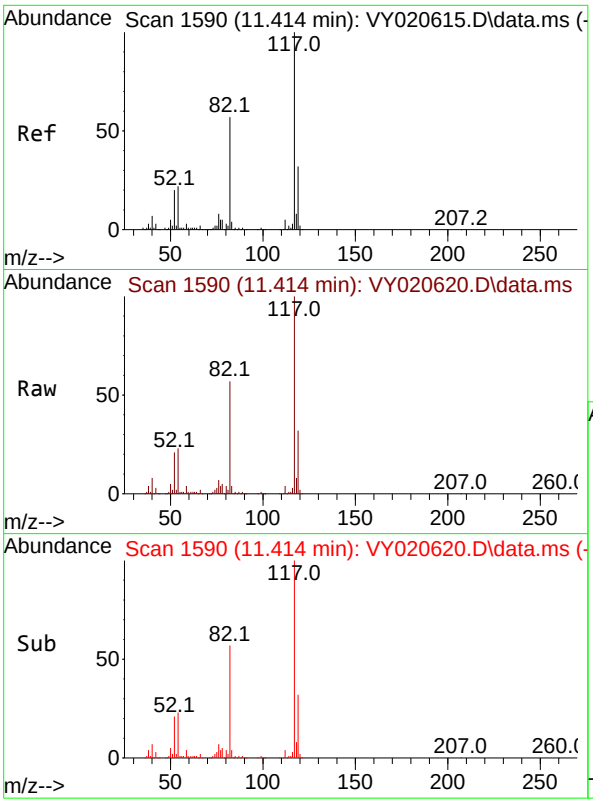




#62
4-Bromofluorobenzene
Concen: 42.982 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 95 Resp: 108522

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.1 | 0.0 | 161.8 |
| 176 | 80.1 | 0.0 | 156.6 |



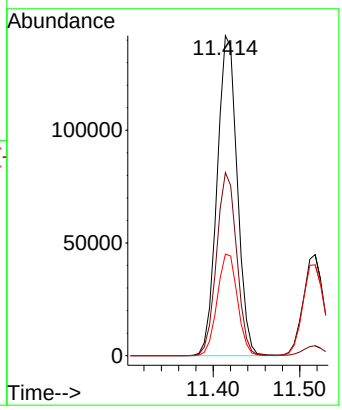


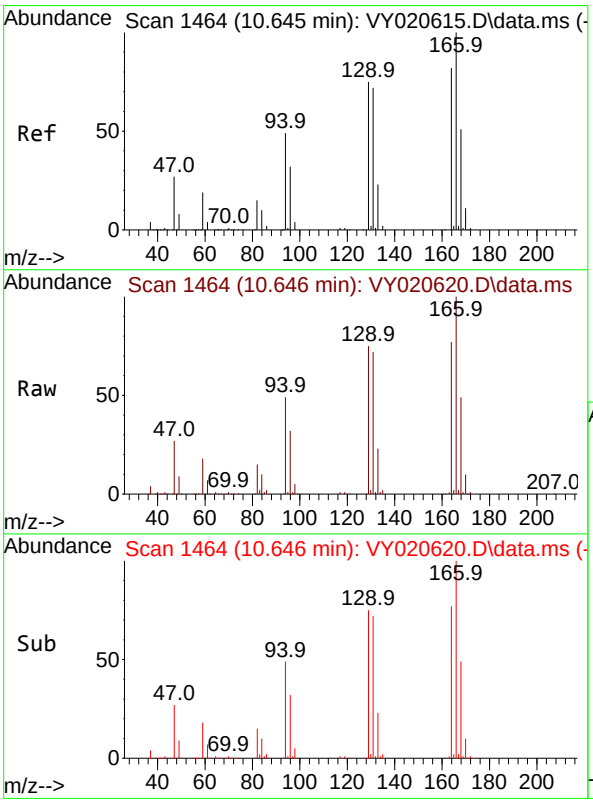

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:117 Resp: 229207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.2 | 45.8 | 68.6 |
| 119 | 31.7 | 25.3 | 37.9 |

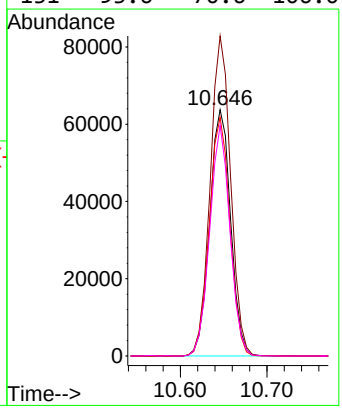


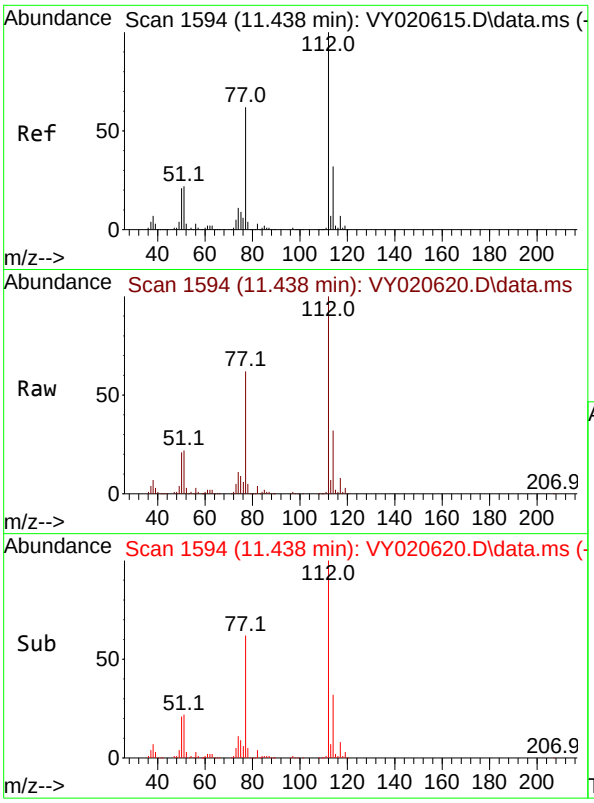




#64
Tetrachloroethene
Concen: 49.626 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:164 Resp: 106990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 130.0 | 97.9 | 146.9 |
| 129 | 96.9 | 73.4 | 110.0 |
| 131 | 93.6 | 70.6 | 106.0 |



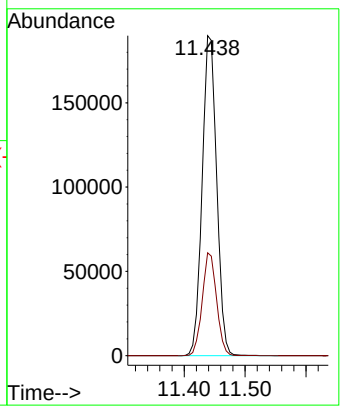


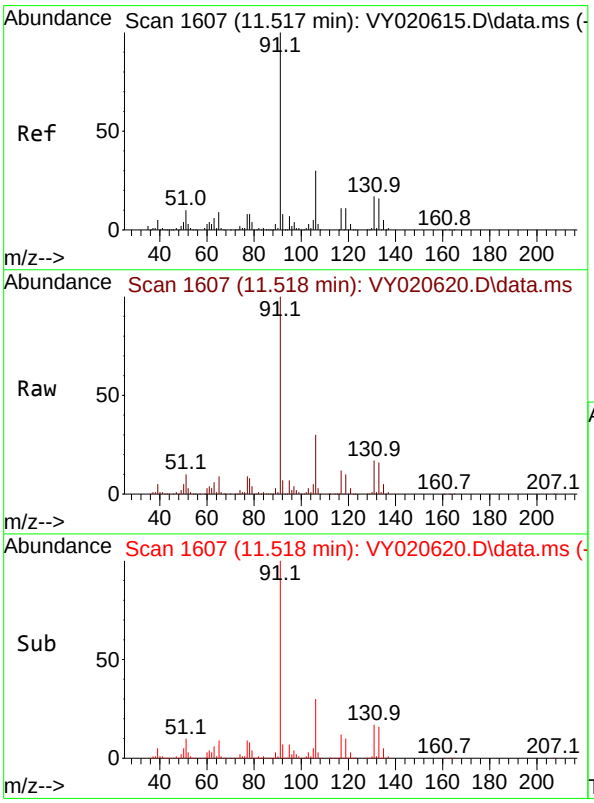

#65
Chlorobenzene
Concen: 48.986 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:112 Resp: 313945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 26.0 | 39.0 |

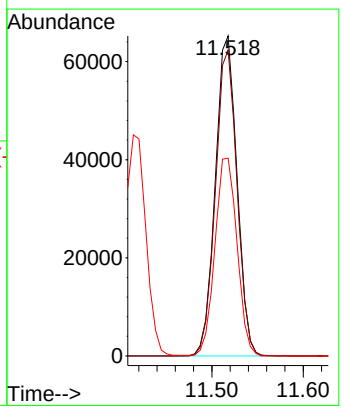


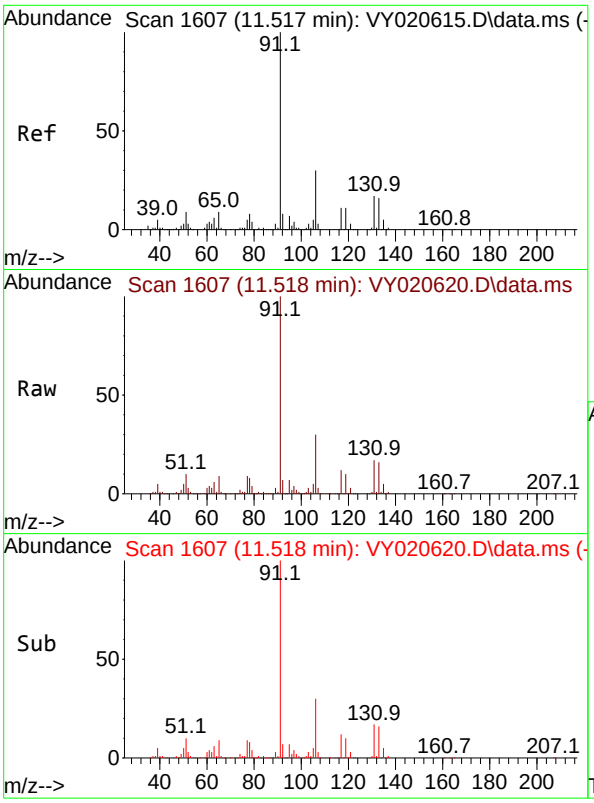




#66
1,1,1,2-Tetrachloroethane
Concen: 49.083 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:131 Resp: 107564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.2 | 46.8 | 140.3 |
| 119 | 63.1 | 31.8 | 95.3 |



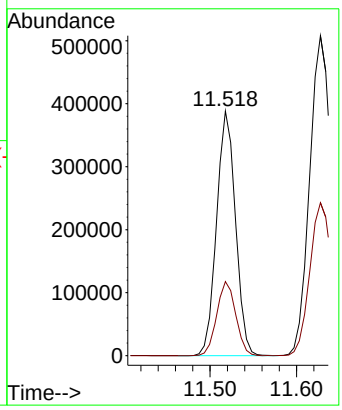


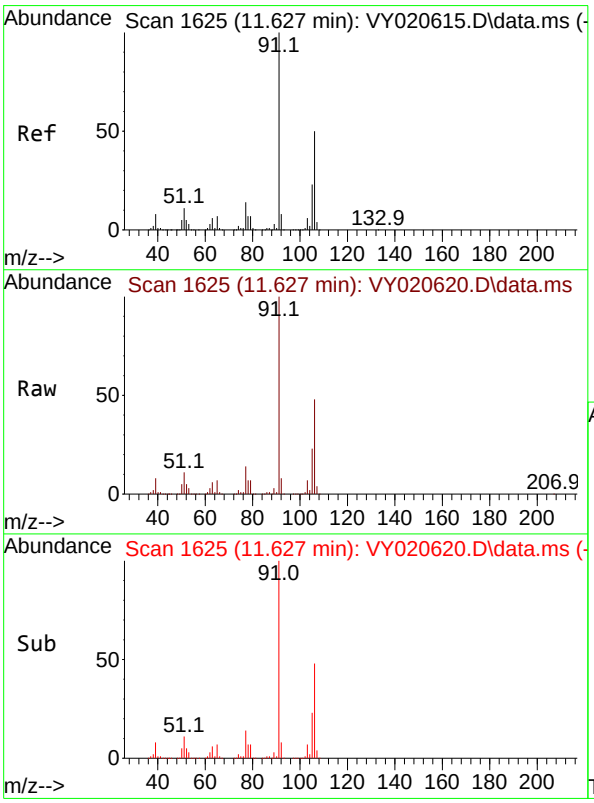

#67
Ethyl Benzene
Concen: 49.815 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 91 Resp: 588990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.3 | 23.9 | 35.9 |

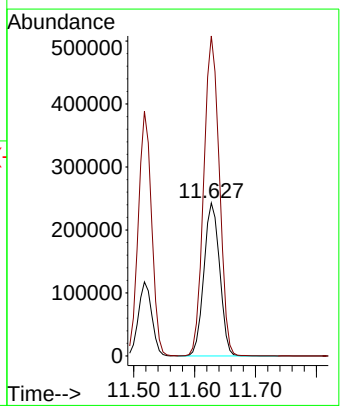


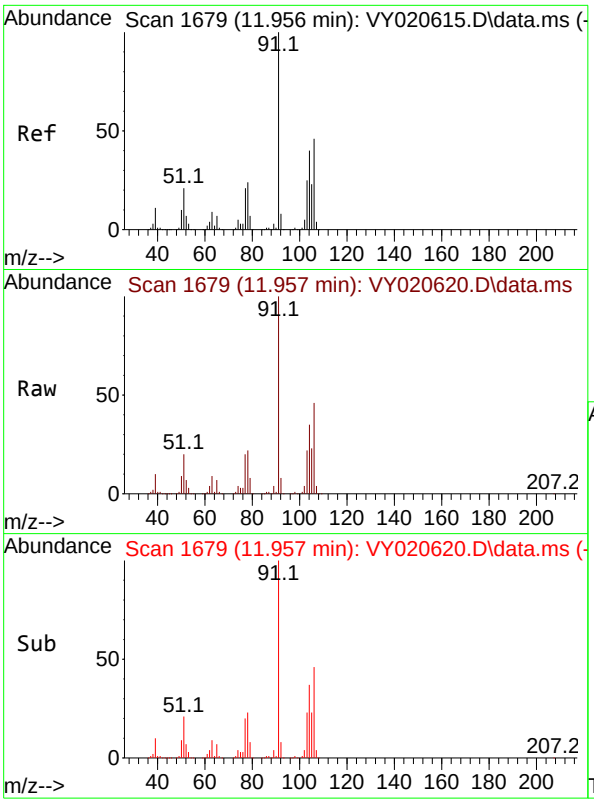




#68
m/p-Xylenes
Concen: 99.430 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:106 Resp: 437108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.6 | 165.0 | 247.4 |



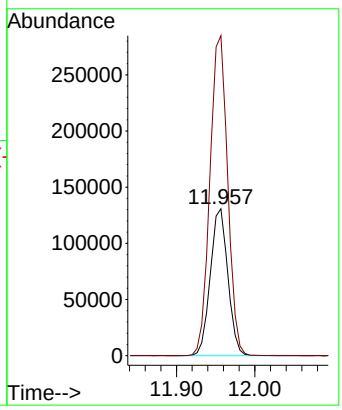


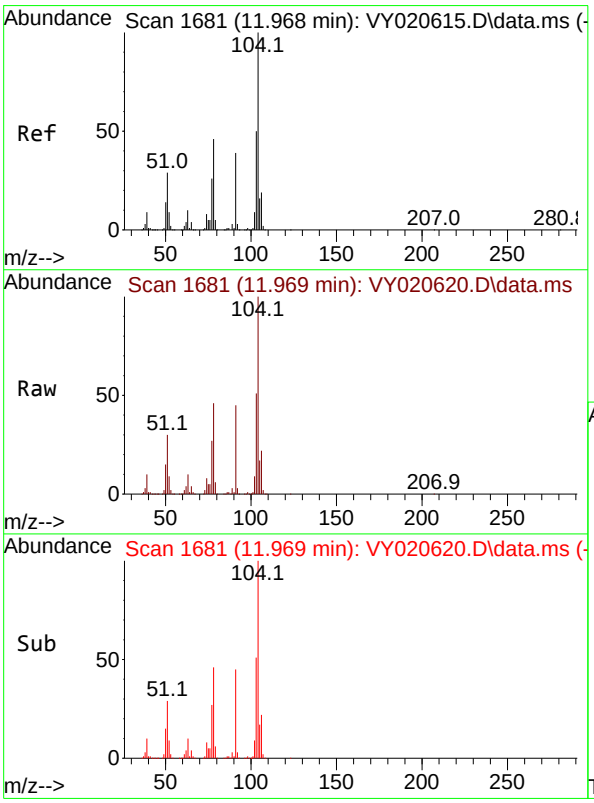

#69
o-Xylene
Concen: 49.568 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:106 Resp: 203316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.3 | 108.4 | 325.2 |

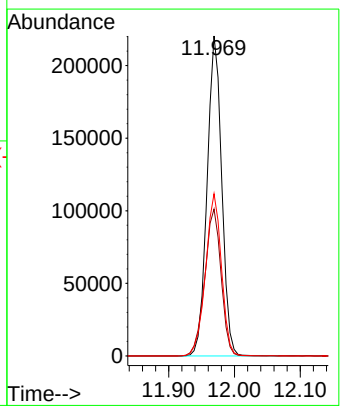


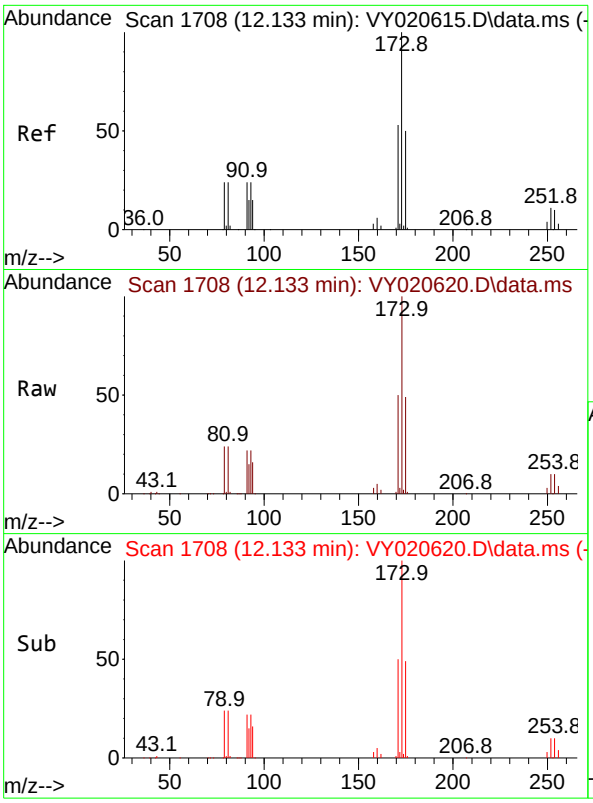




#70
Styrene
Concen: 49.827 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:104 Resp: 341470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.2 | 41.6 | 62.4 |
| 103 | 55.0 | 43.7 | 65.5 |



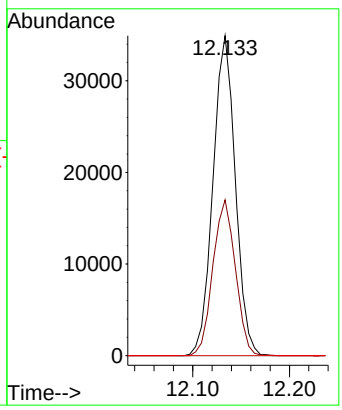


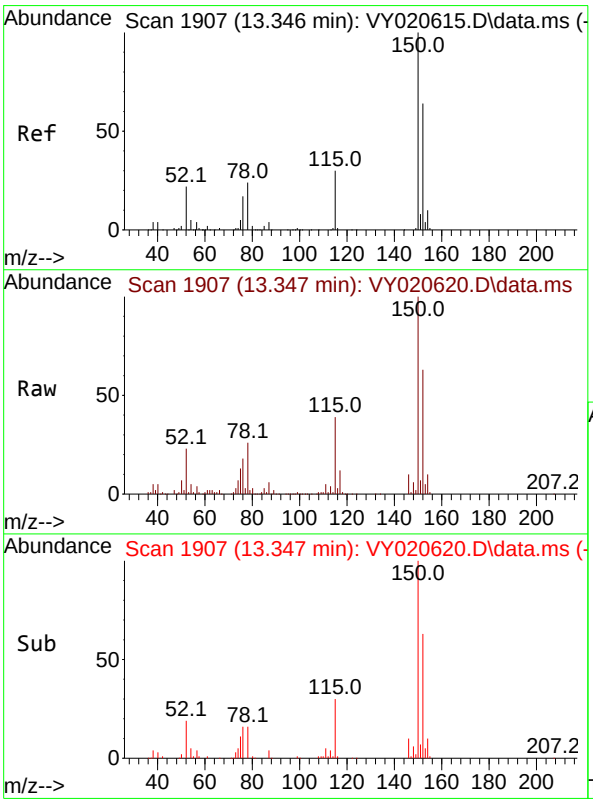

#71
Bromoform
Concen: 45.451 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:173 Resp: 56002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.0 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |

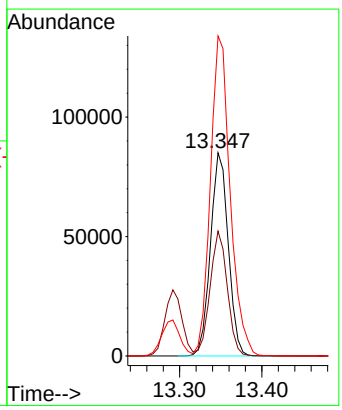


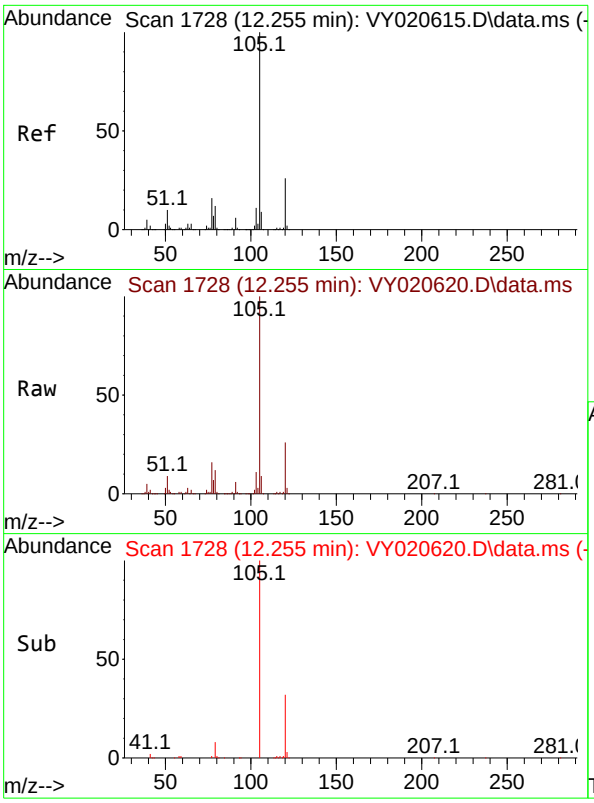




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:152 Resp: 127757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.6 | 30.2 | 90.6 |
| 150 | 175.1 | 0.0 | 355.4 |



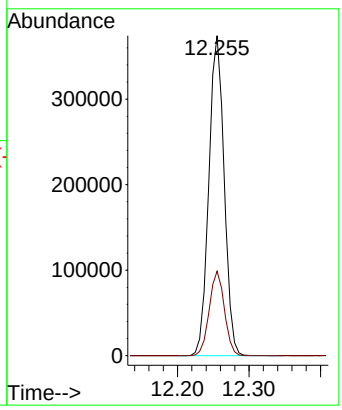


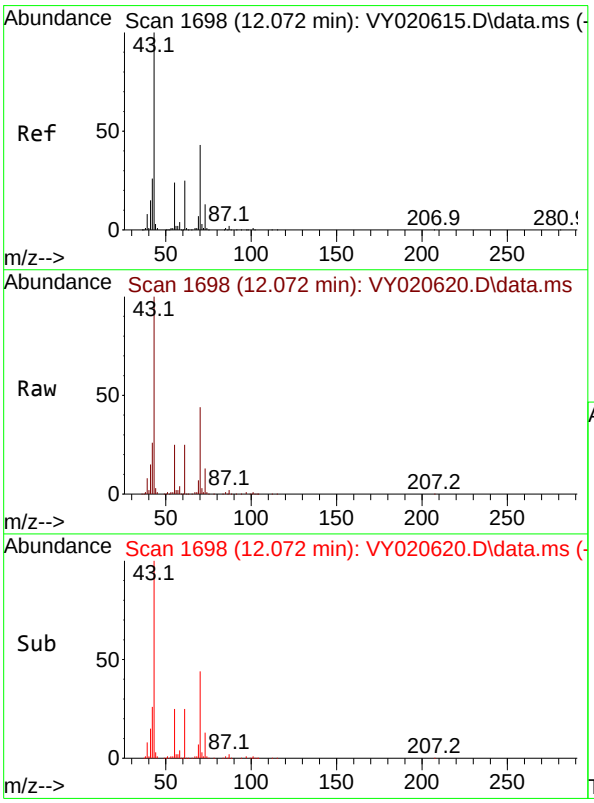

#73
Isopropylbenzene
Concen: 49.908 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:105 Resp: 556414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.1 | 39.1 |

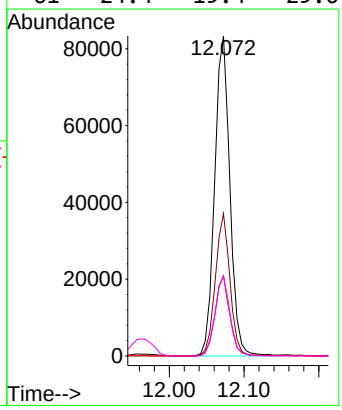


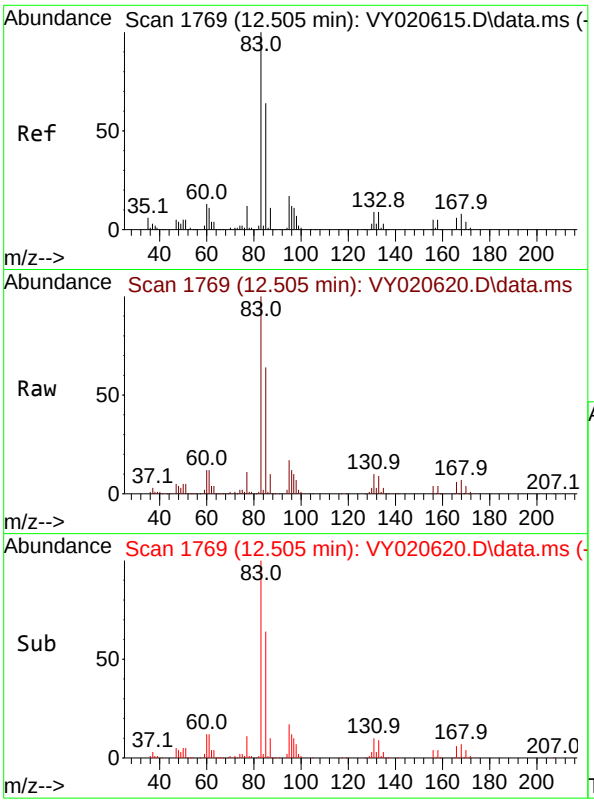




#74
N-amyl acetate
Concen: 45.328 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 43 Resp: 118269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.7 | 34.2 | 51.2 |
| 55 | 24.2 | 19.6 | 29.4 |
| 61 | 24.4 | 19.4 | 29.0 |



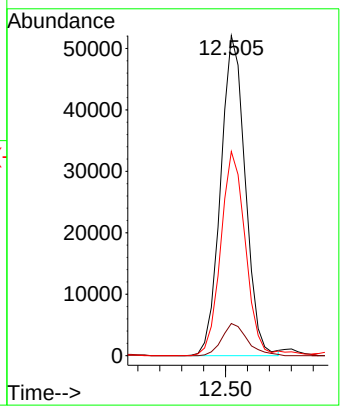


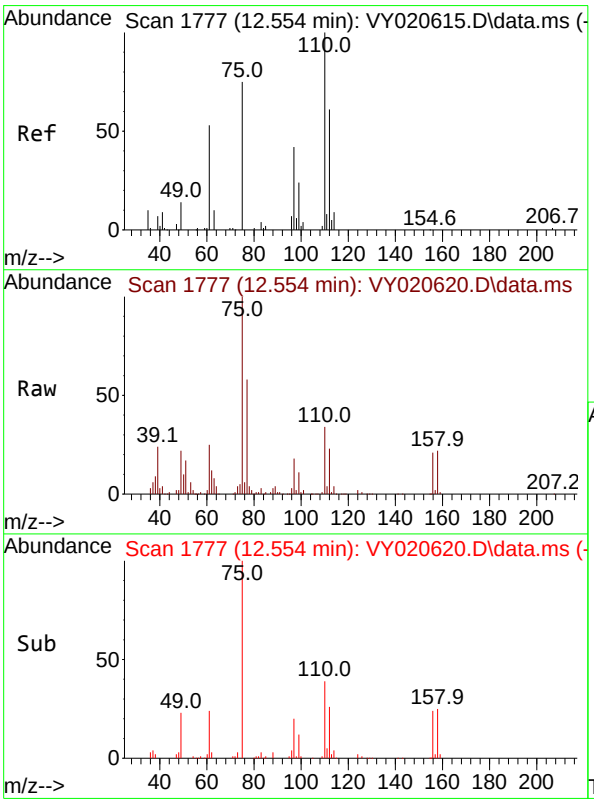

#75
1,1,2,2-Tetrachloroethane
Concen: 44.824 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 83 Resp: 81117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 5.2 | 15.6 |
| 85 | 64.7 | 32.5 | 97.4 |

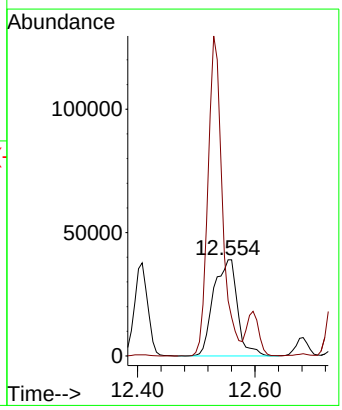


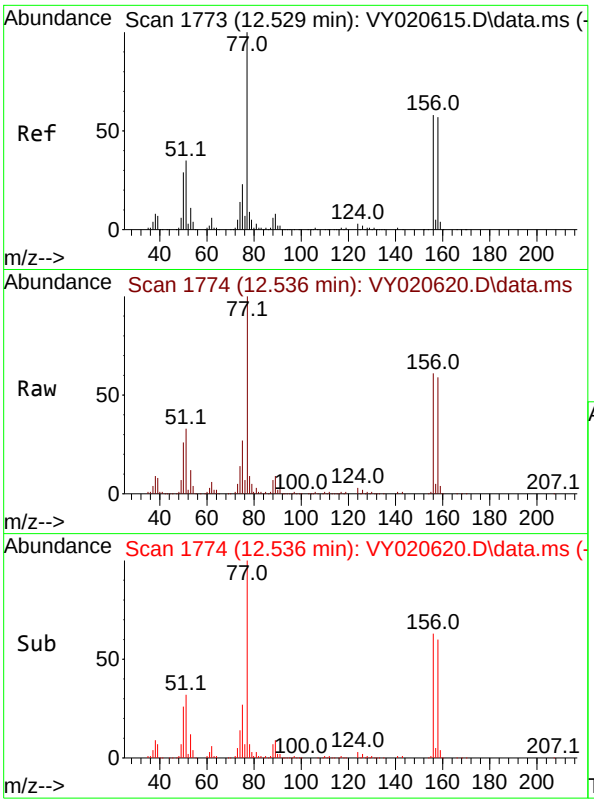




#76
1,2,3-Trichloropropane
Concen: 82.838 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 75 Resp: 109938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



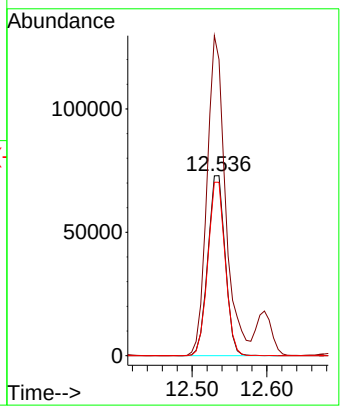


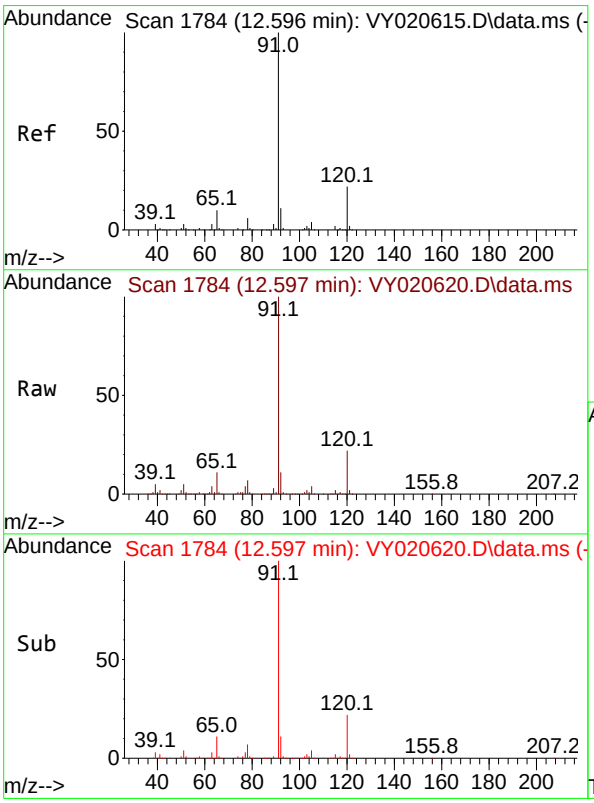

#77
Bromobenzene
Concen: 48.267 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:156 Resp: 117217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 190.2 | 94.2 | 282.4 |
| 158 | 96.8 | 48.9 | 146.6 |

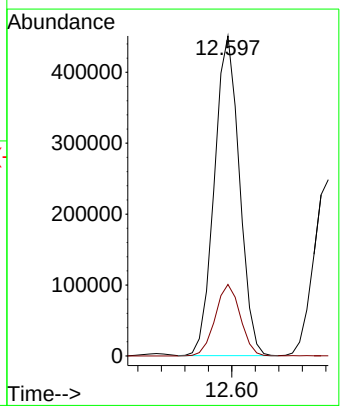


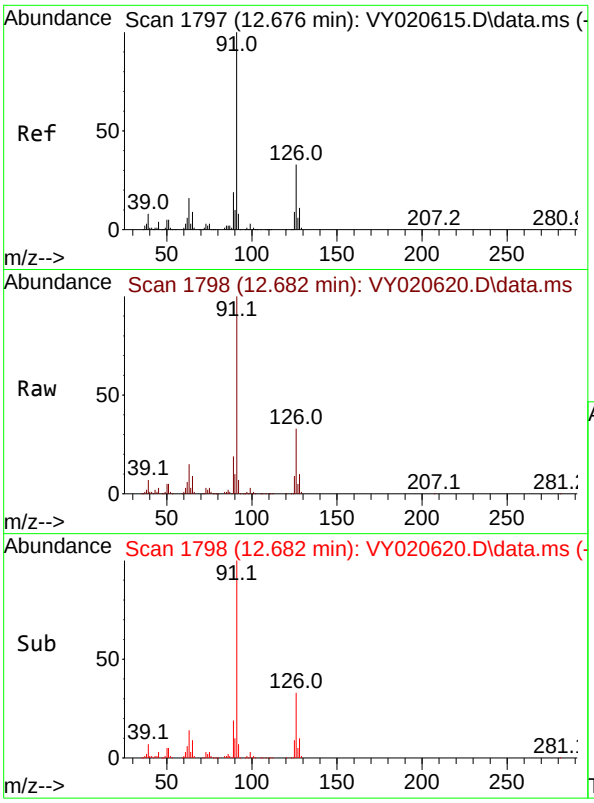




#78
n-propylbenzene
Concen: 49.775 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 91 Resp: 668577

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.3 | 11.1 | 33.1 |



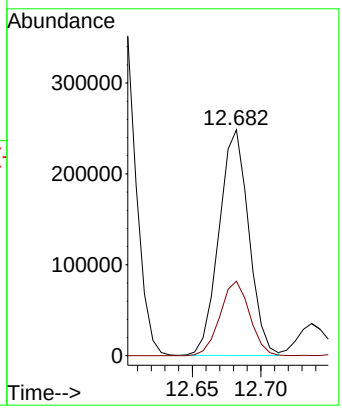


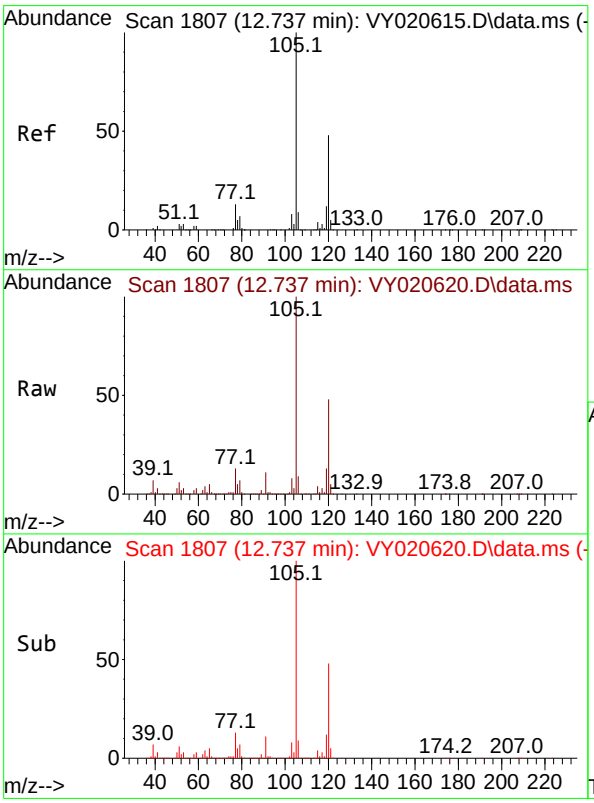

#79
2-Chlorotoluene
Concen: 49.628 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 91 Resp: 375047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.8 | 16.6 | 49.7 |

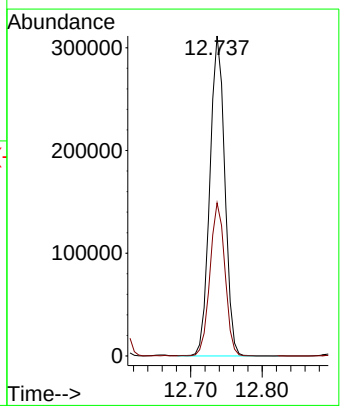


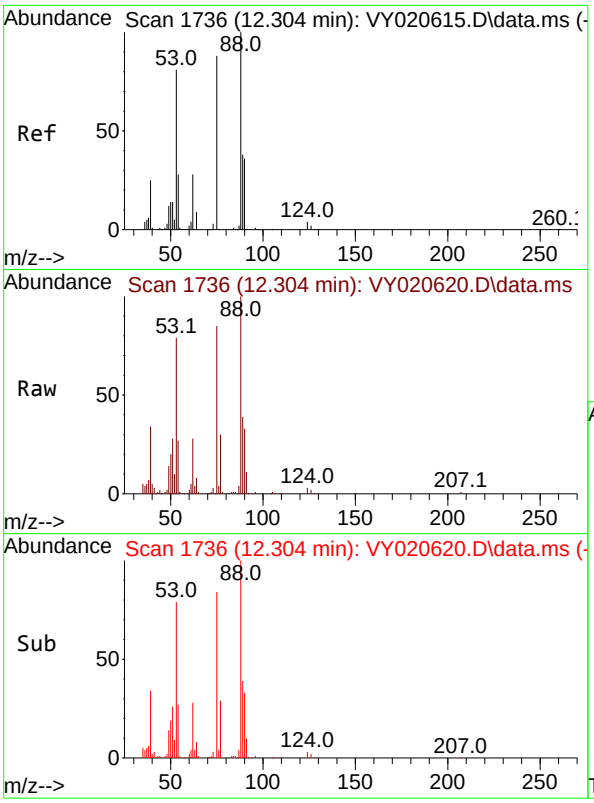




#80
1,3,5-Trimethylbenzene
Concen: 49.995 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:105 Resp: 452266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.9 | 71.7 |



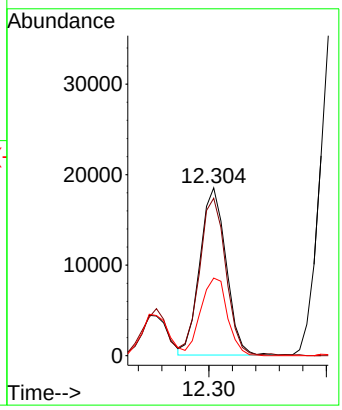


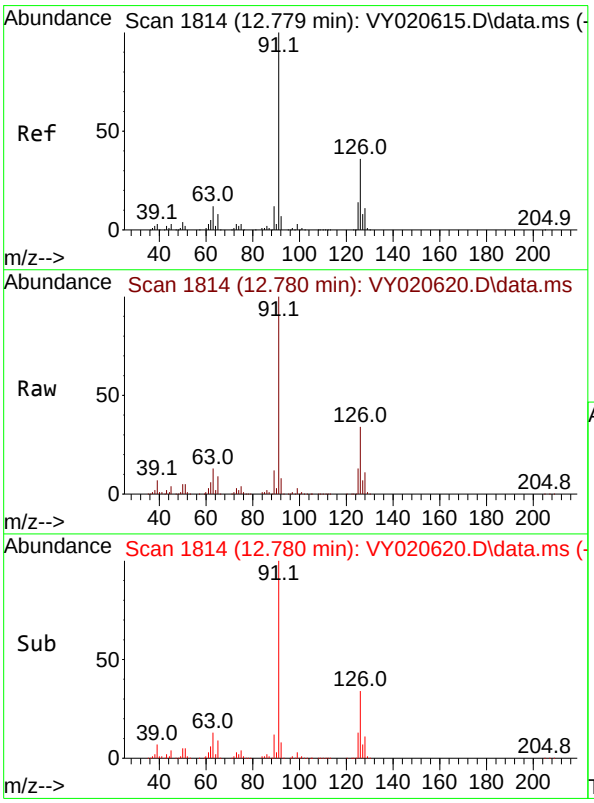

#81
trans-1,4-Dichloro-2-butene
Concen: 45.313 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 75 Resp: 28650

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.4 | 75.4 | 113.2 |
| 89 | 47.1 | 37.0 | 55.4 |

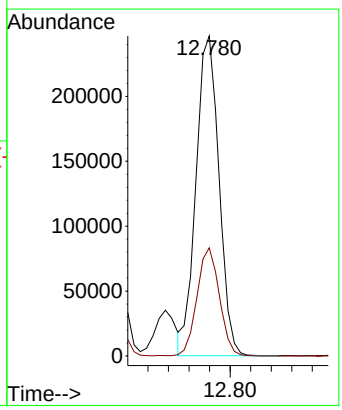


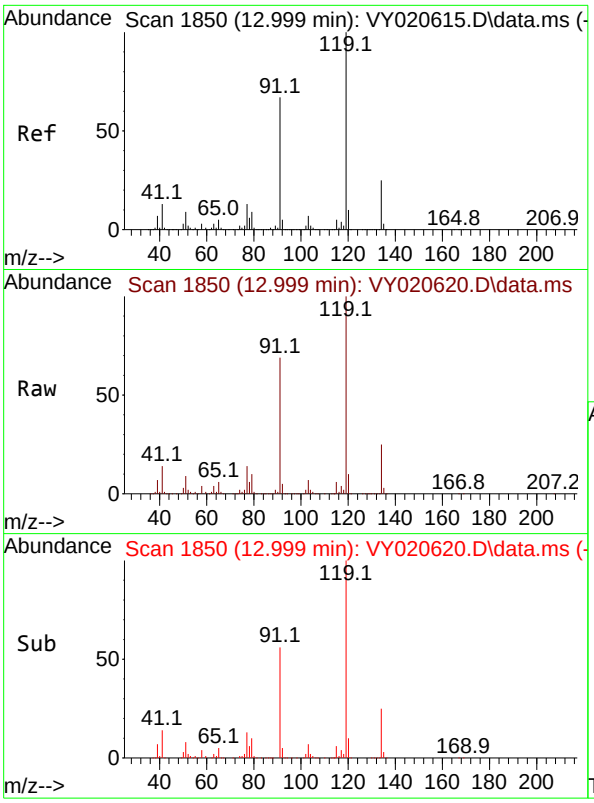




#82
4-Chlorotoluene
Concen: 48.929 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 91 Resp: 383617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.0 | 16.6 | 49.7 |



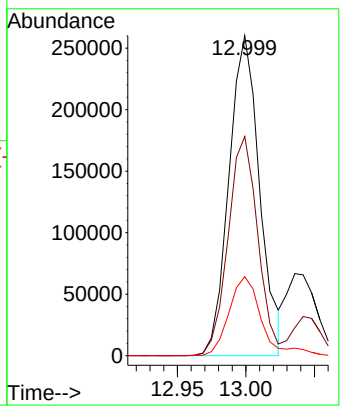


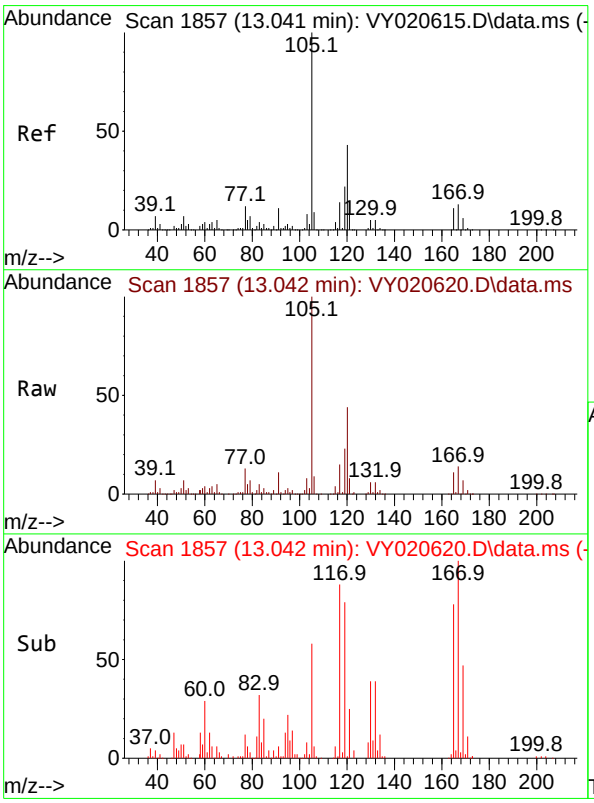

#83
tert-Butylbenzene
Concen: 49.469 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:119 Resp: 405285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.1 | 32.9 | 98.6 |
| 134 | 26.2 | 13.1 | 39.1 |

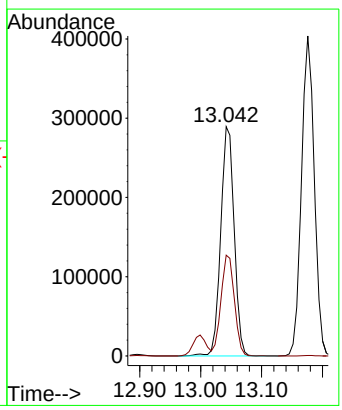


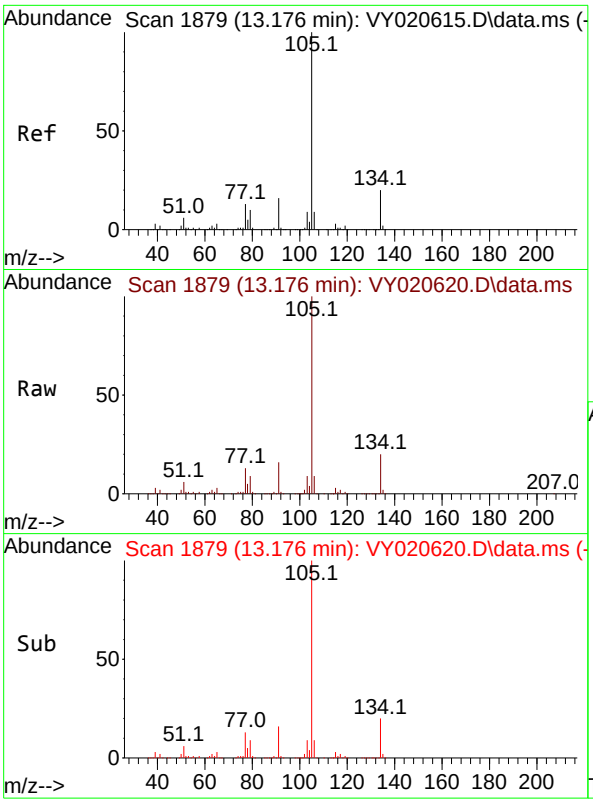




#84
1,2,4-Trimethylbenzene
Concen: 49.877 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:105 Resp: 442582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.7 | 21.8 | 65.4 |



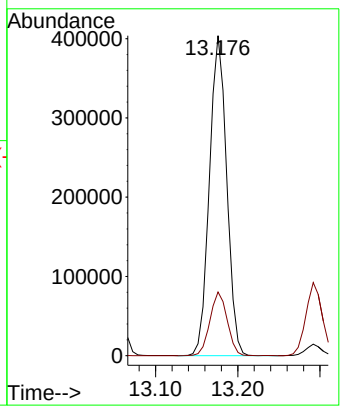


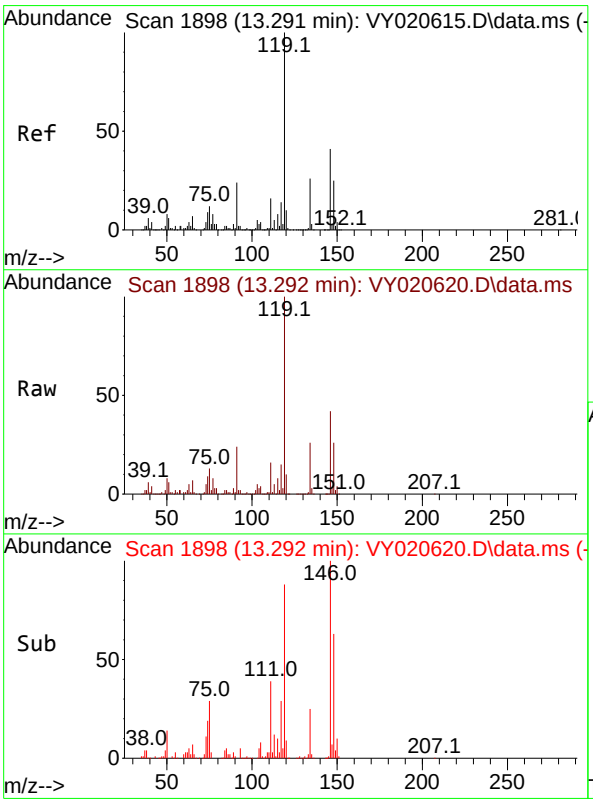

#85
sec-Butylbenzene
Concen: 49.451 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:105 Resp: 589060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.0 | 30.0 |

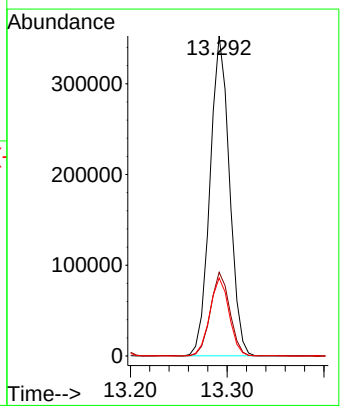


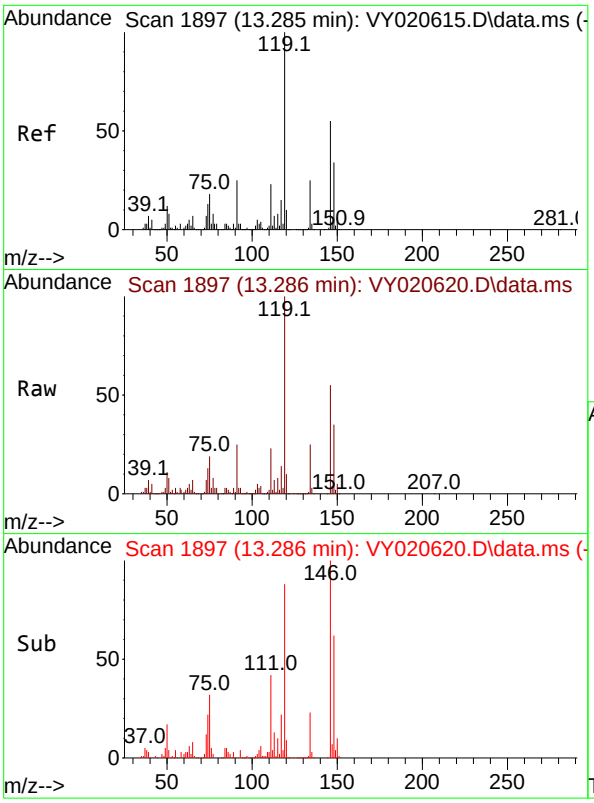




#86
p-Isopropyltoluene
Concen: 50.187 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:119 Resp: 492898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.9 | 38.6 |
| 91 | 24.2 | 12.1 | 36.3 |



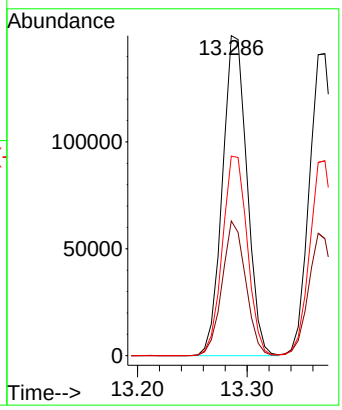


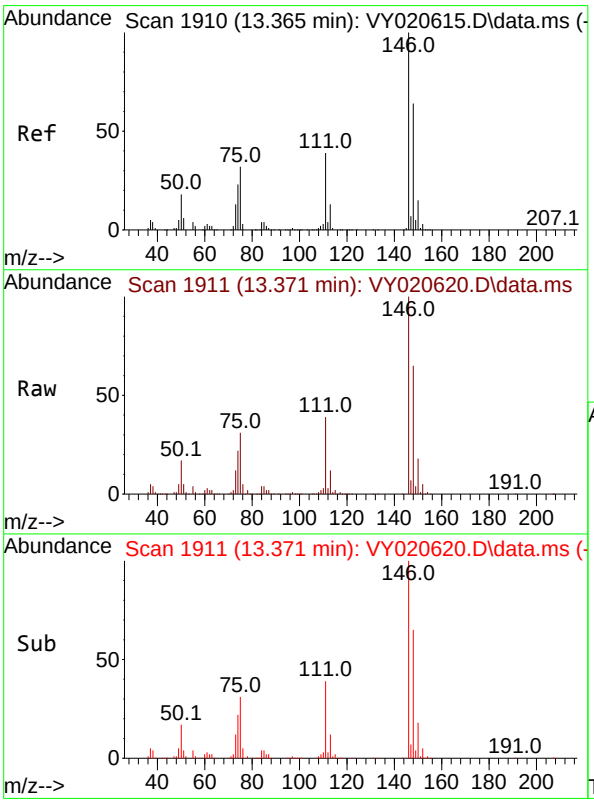

#87
1,3-Dichlorobenzene
Concen: 48.653 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:146 Resp: 233241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 20.6 | 61.8 |
| 148 | 63.2 | 31.4 | 94.0 |

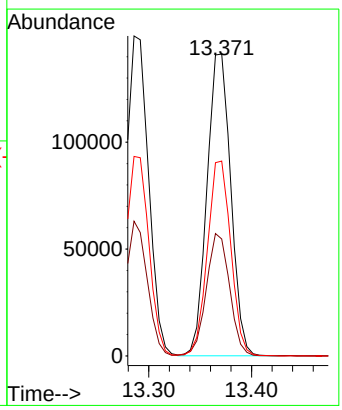


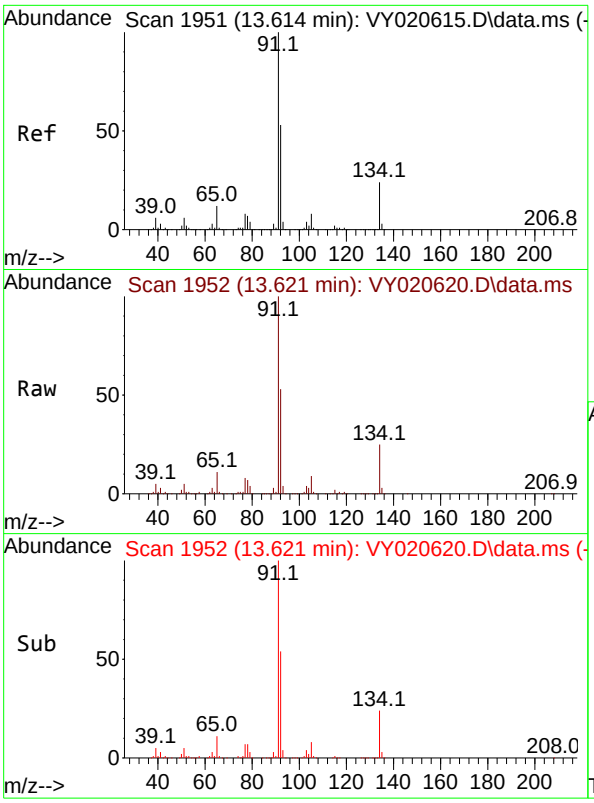




#88
1,4-Dichlorobenzene
Concen: 47.888 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:146 Resp: 227374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 19.6 | 58.7 |
| 148 | 63.6 | 31.9 | 95.5 |



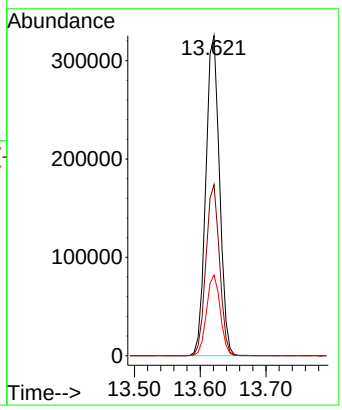


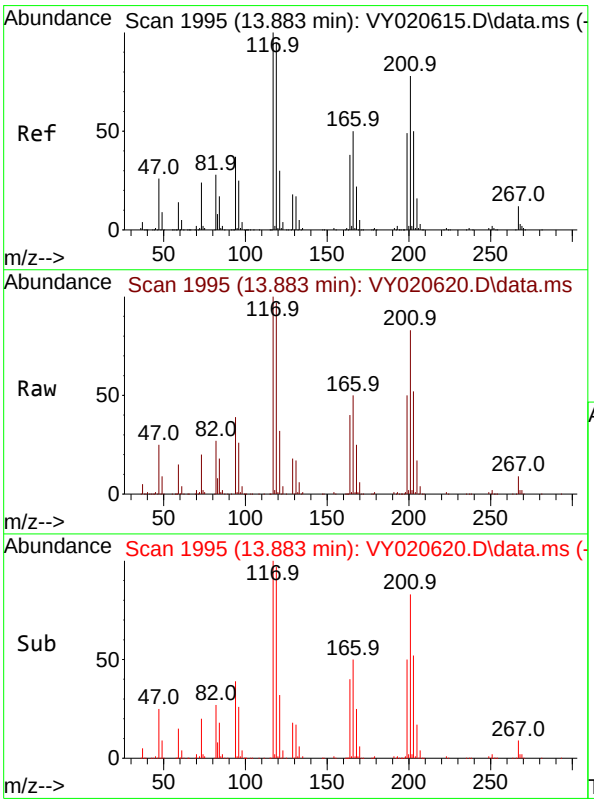

#89
n-Butylbenzene
Concen: 50.725 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion: 91 Resp: 472143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.1 | 26.8 | 80.4 |
| 134 | 25.2 | 12.5 | 37.5 |

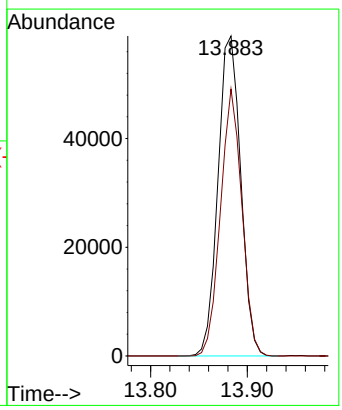


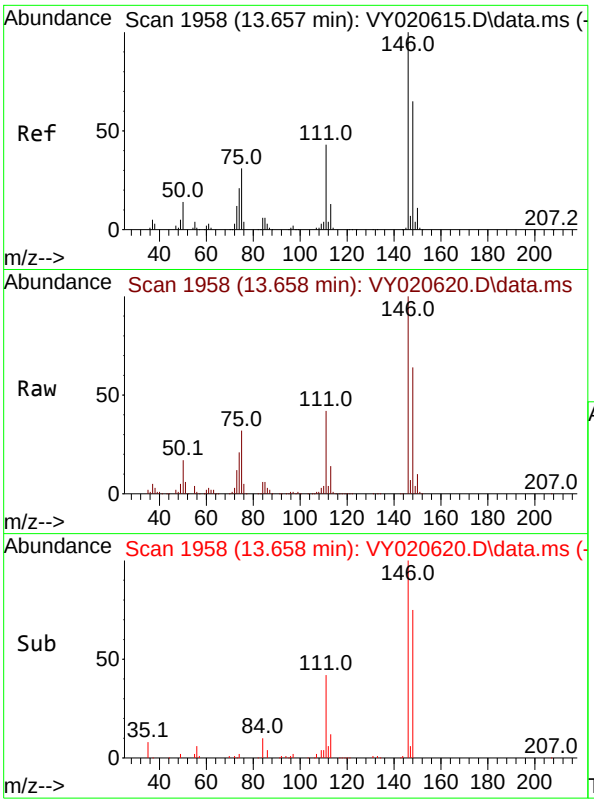




#90
Hexachloroethane
Concen: 49.342 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:117 Resp: 96035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.5 | 39.1 | 117.3 |



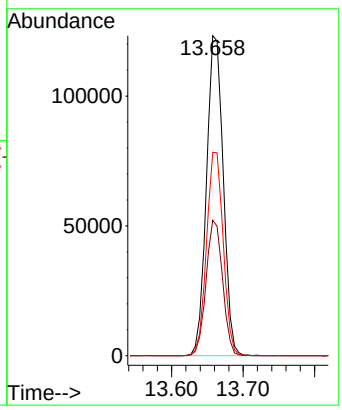


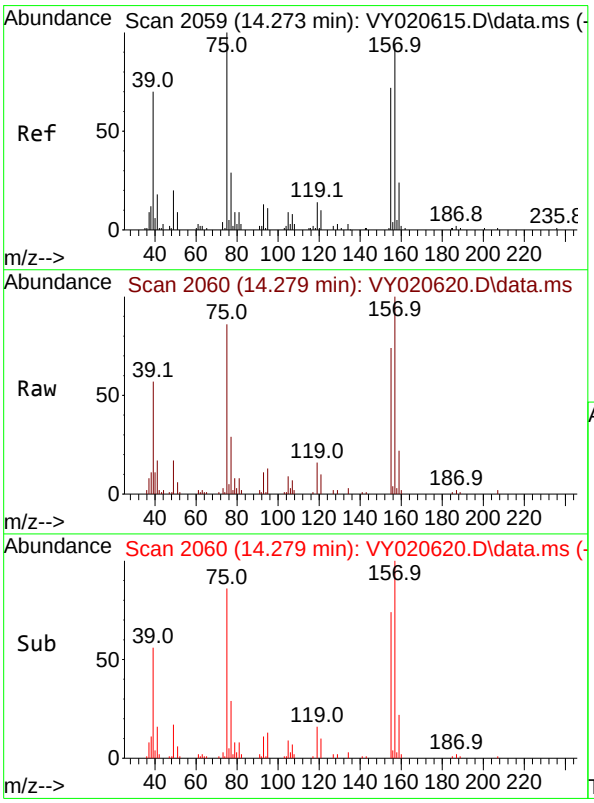

#91
1,2-Dichlorobenzene
Concen: 48.162 ug/l
RT: 13.658 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:146 Resp: 200049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.8 | 21.3 | 63.7 |
| 148 | 63.3 | 32.0 | 96.0 |

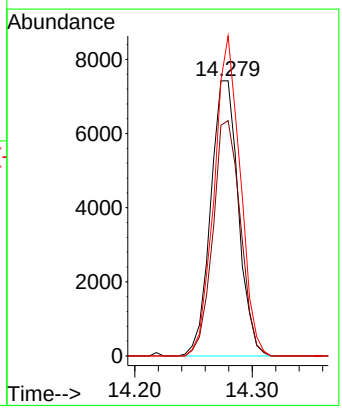


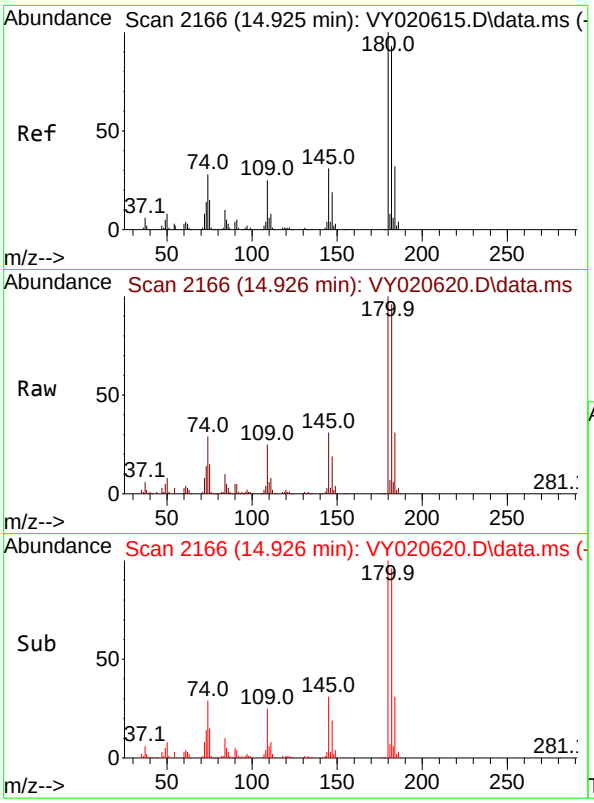




#92
1,2-Dibromo-3-Chloropropane
Concen: 41.418 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.007 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion: 75 Resp: 12169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 84.9 | 41.1 | 123.3 |
| 157 | 109.1 | 52.9 | 158.8 |



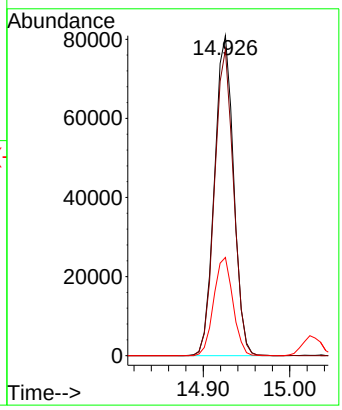


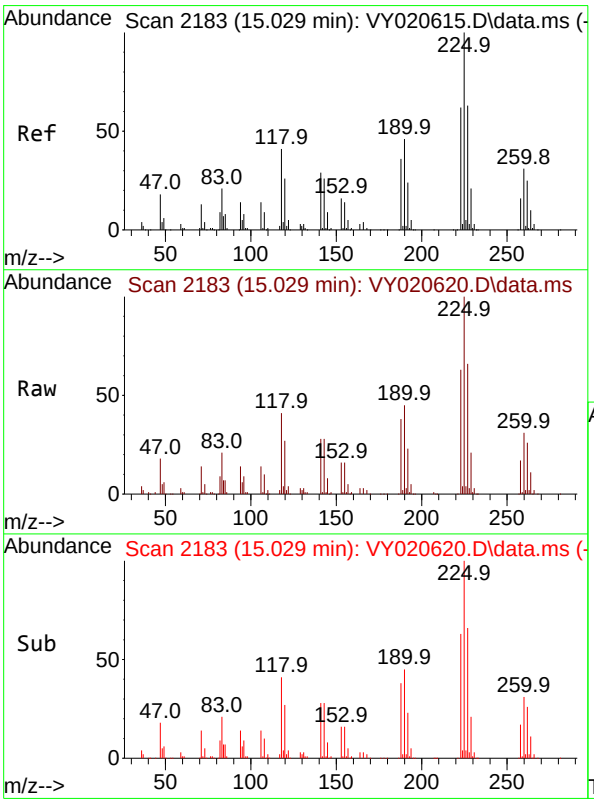

#93
1,2,4-Trichlorobenzene
Concen: 49.388 ug/l
RT: 14.926 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:180 Resp: 124084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 47.9 | 143.6 |
| 145 | 30.8 | 15.6 | 46.7 |

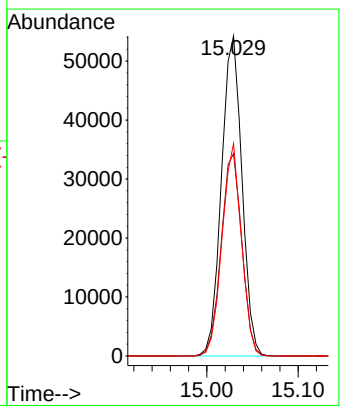


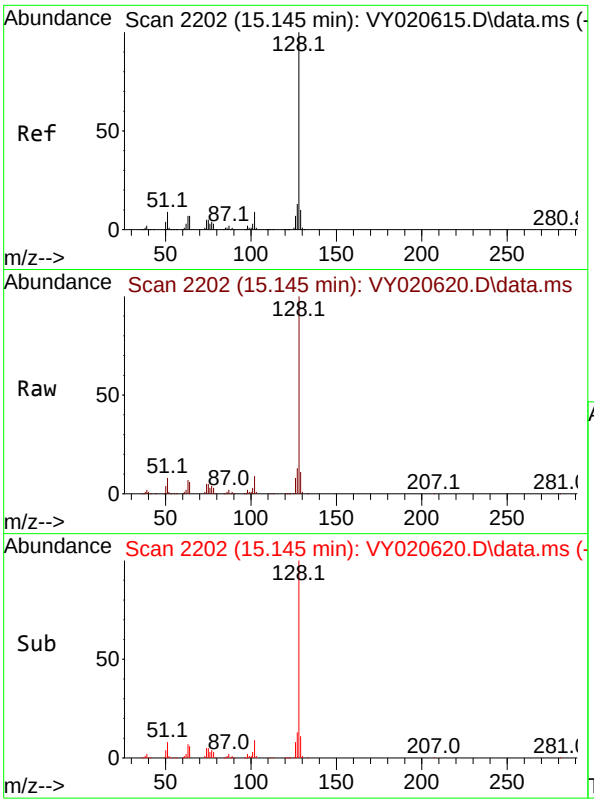




#94
Hexachlorobutadiene
Concen: 51.372 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:225 Resp: 84375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.8 | 31.8 | 95.3 |
| 227 | 63.0 | 32.2 | 96.6 |



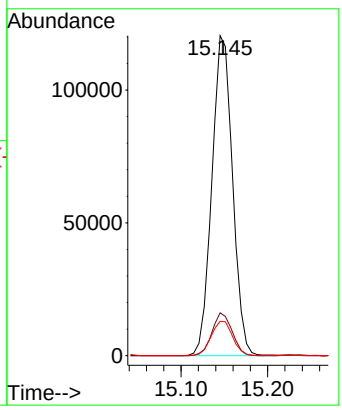


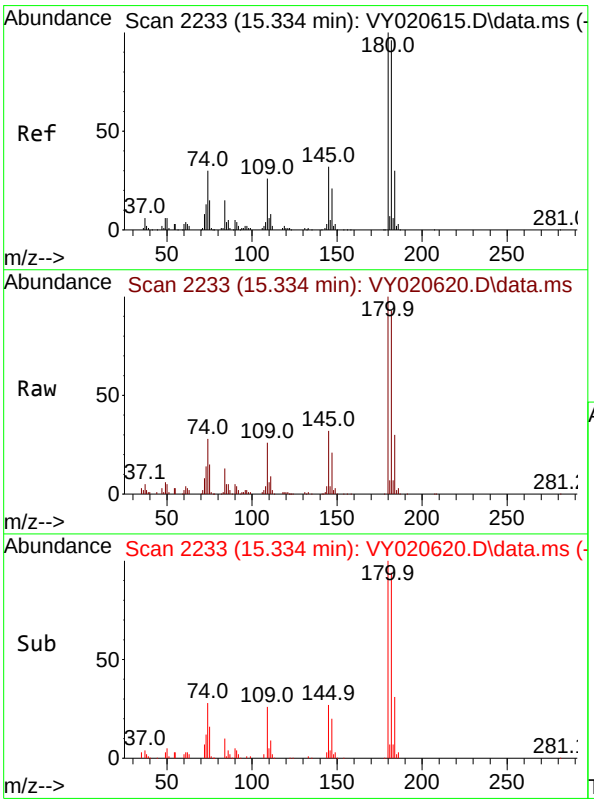

#95
Naphthalene
Concen: 46.344 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY121724

Tgt Ion:128 Resp: 199622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.7 | 16.1 |
| 129 | 11.2 | 8.5 | 12.7 |

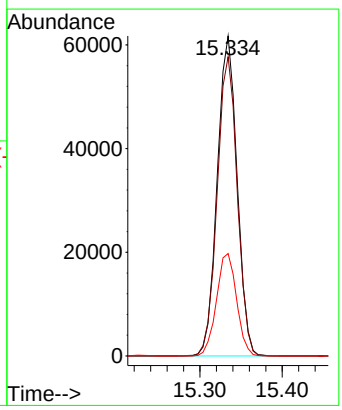



#96
1,2,3-Trichlorobenzene
Concen: 48.662 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020620.D
Acq: 17 Dec 2024 17:41

Tgt Ion:180 Resp: 103298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 47.3 | 141.9 |
| 145 | 32.5 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 162547 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 240673 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 212145 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 119359 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 71807 | 40.336 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 80.680% | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 73716 | 43.459 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 86.920% | | |
| 50) Toluene-d8 | 10.109 | 98 | 259216 | 43.661 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 87.320% | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 97623 | 42.036 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 84.080% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 101237 | 49.863 | ug/l | 99 |
| 3) Chloromethane | 2.074 | 50 | 65890 | 43.800 | ug/l | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 60443 | 43.169 | ug/l | 100 |
| 5) Bromomethane | 2.605 | 94 | 35571 | 39.522 | ug/l | 96 |
| 6) Chloroethane | 2.739 | 64 | 34884 | 40.318 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 142498 | 48.639 | ug/l | 97 |
| 8) Diethyl Ether | 3.464 | 74 | 46033 | 44.802 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 110942 | 52.831 | ug/l | 99 |
| 10) Methyl Iodide | 4.013 | 142 | 131655 | 56.311 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.860 | 59 | 40751 | 212.136 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 104993 | 51.529 | ug/l | 97 |
| 13) Acrolein | 3.659 | 56 | 10168 | 120.792 | ug/l | 96 |
| 14) Allyl chloride | 4.391 | 41 | 192684 | 53.969 | ug/l | 99 |
| 15) Acrylonitrile | 5.068 | 53 | 125271 | 254.850 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 90623 | 256.402 | ug/l | 96 |
| 17) Carbon Disulfide | 4.116 | 76 | 360666 | 54.380 | ug/l | 99 |
| 18) Methyl Acetate | 4.391 | 43 | 65339 | 53.944 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 272592 | 51.833 | ug/l | 100 |
| 20) Methylene Chloride | 4.622 | 84 | 113838 | 51.431 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 120568 | 52.751 | ug/l | 99 |
| 22) Diisopropyl ether | 6.025 | 45 | 385510 | 53.195 | ug/l | 97 |
| 23) Vinyl Acetate | 5.964 | 43 | 1068233 | 260.253 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 224983 | 52.991 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 158594 | 239.715 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 201830 | 50.287 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 137382 | 52.244 | ug/l | 99 |
| 28) Bromochloromethane | 7.250 | 49 | 72076 | 50.330 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.268 | 42 | 104646 | 250.559 | ug/l | 100 |
| 30) Chloroform | 7.427 | 83 | 227859 | 53.857 | ug/l | 98 |
| 31) Cyclohexane | 7.707 | 56 | 199490 | 49.141 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 206129 | 52.846 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 169048 | 54.656 | ug/l | 100 |
| 37) Ethyl Acetate | 6.988 | 43 | 73443 | 50.481 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 190940 | 55.798 | ug/l | 99 |
| 39) Methylcyclohexane | 9.116 | 83 | 216273 | 53.650 | ug/l | 97 |
| 40) Benzene | 8.085 | 78 | 496803 | 54.799 | ug/l | 97 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 39064 | 50.789 | ug/l | | 93 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 129790 | 53.978 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 146927 | 53.344 | ug/l | # | 89 |
| 44) Trichloroethene | 8.866 | 130 | 120106 | 53.915 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 114657 | 54.113 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 60564 | 54.086 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.427 | 83 | 165285 | 54.644 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.225 | 41 | 69098 | 52.772 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 12610 | 981.949 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 372513 | 256.228 | ug/l | | 100 |
| 52) Toluene | 10.176 | 92 | 310772 | 55.159 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 153061 | 54.306 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 185052 | 55.407 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 80376 | 54.290 | ug/l | | 97 |
| 56) Ethyl methacrylate | 10.439 | 69 | 116828 | 54.394 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 143193 | 54.257 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 242438 | 268.265 | ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 246134 | 263.689 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 109346 | 55.226 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 73670 | 53.496 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 107671 | 53.958 | ug/l | | 97 |
| 65) Chlorobenzene | 11.444 | 112 | 323124 | 54.474 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 114100 | 56.252 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 607565 | 55.519 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.633 | 106 | 444911 | 109.344 | ug/l | | 99 |
| 69) o-Xylene | 11.957 | 106 | 208015 | 54.792 | ug/l | | 97 |
| 70) Styrene | 11.975 | 104 | 349665 | 55.127 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 63758 | 55.908 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 571028 | 54.823 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 126874 | 52.048 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 90544 | 53.553 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 121614 | 98.083 | ug/l | # | 100 |
| 77) Bromobenzene | 12.536 | 156 | 121520 | 53.559 | ug/l | | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 691545 | 55.107 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 382585 | 54.188 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 460381 | 54.473 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 32476 | 54.979 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 394546 | 53.864 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 425908 | 55.644 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 454208 | 54.789 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 615306 | 55.289 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 507405 | 55.299 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 240167 | 53.623 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 233518 | 52.643 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 482377 | 55.471 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 99835 | 54.904 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 205065 | 52.844 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 13979 | 50.926 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 121126 | 51.603 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 83298 | 54.285 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 204937 | 50.926 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 100879 | 50.866 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

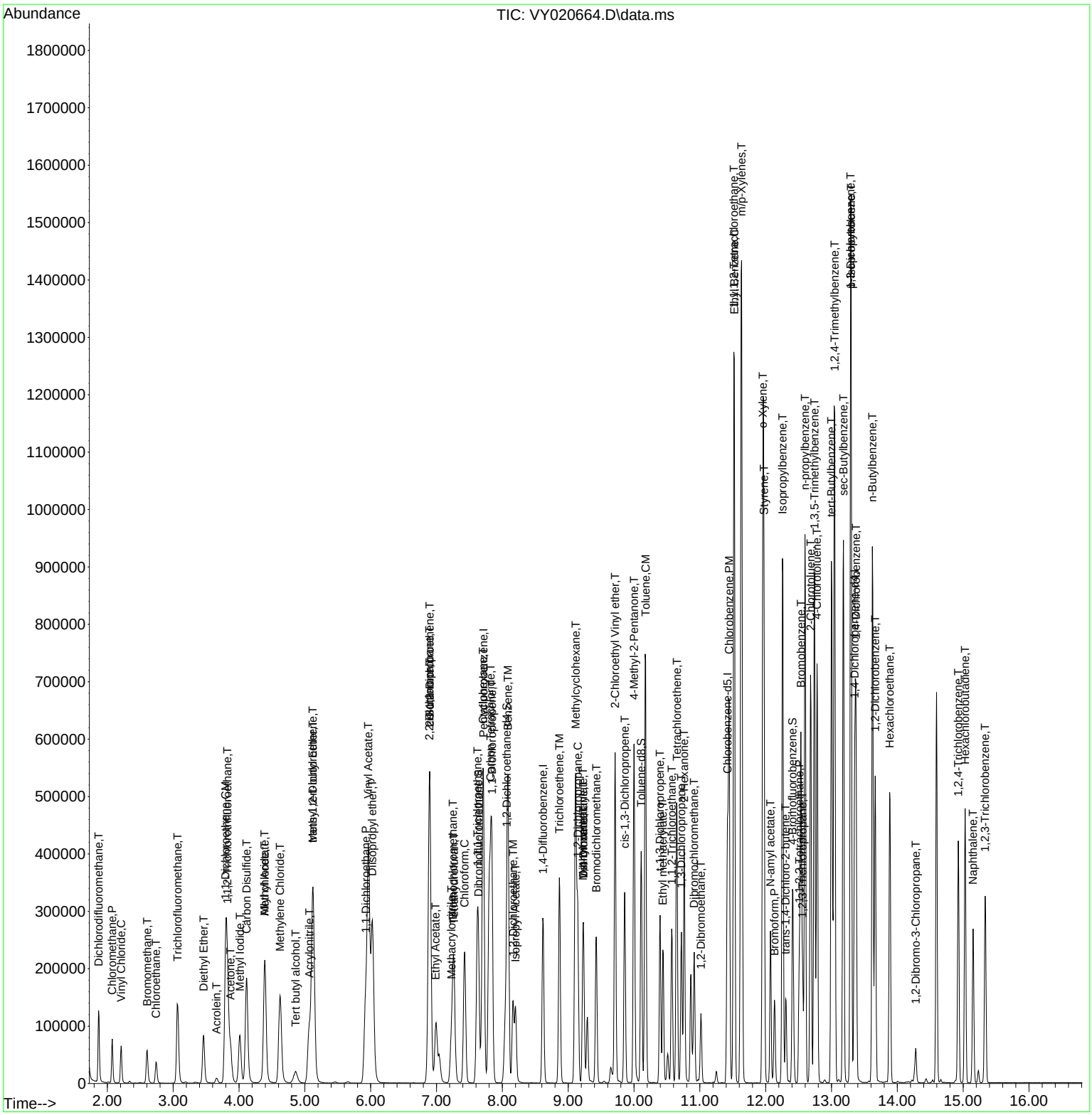
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

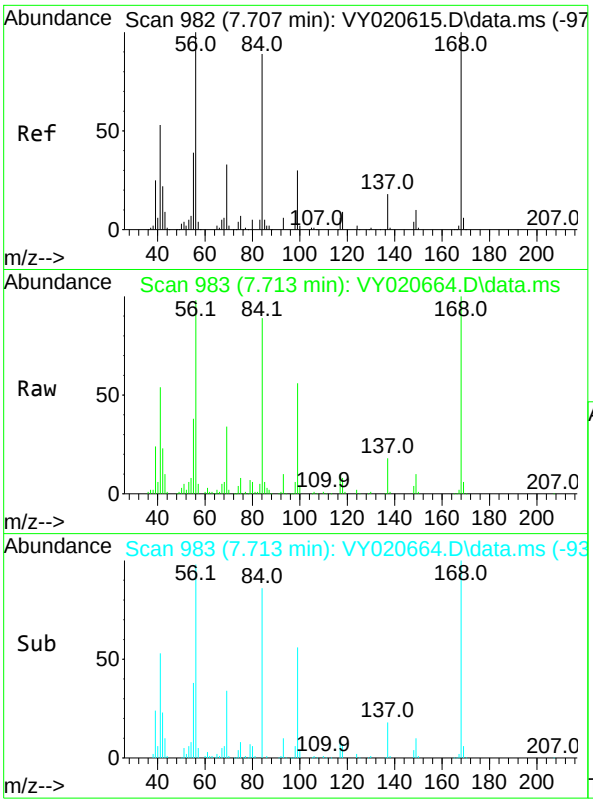
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020664.D
Acq On : 20 Dec 2024 09:09
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Quant Time: Dec 20 18:07:52 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



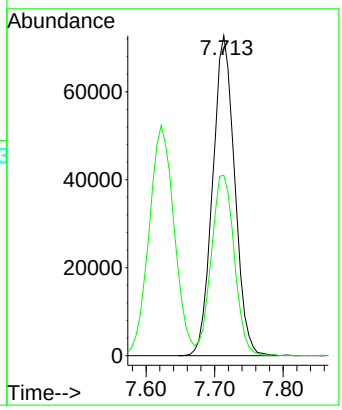


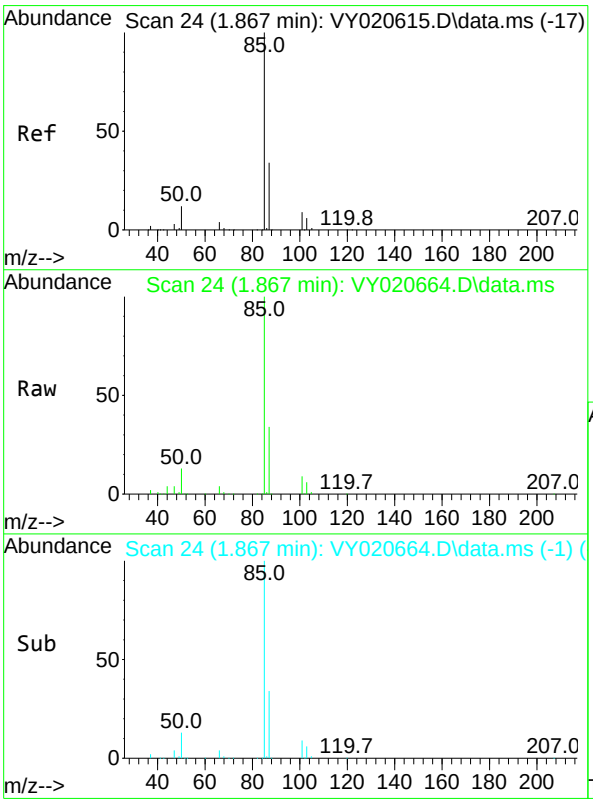

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:168 Resp: 162547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.3 | 47.0 | 70.6 |

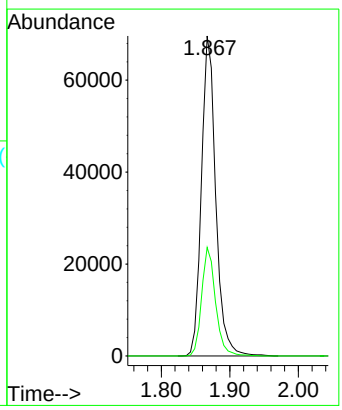


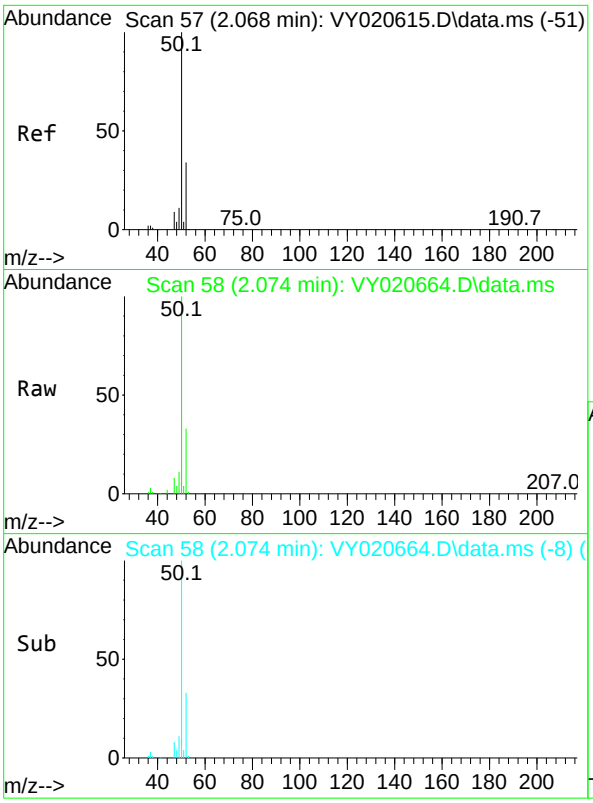




#2
Dichlorodifluoromethane
Concen: 49.863 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 85 Resp: 101237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.9 | 16.8 | 50.3 |



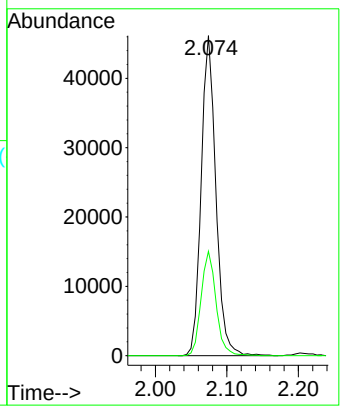


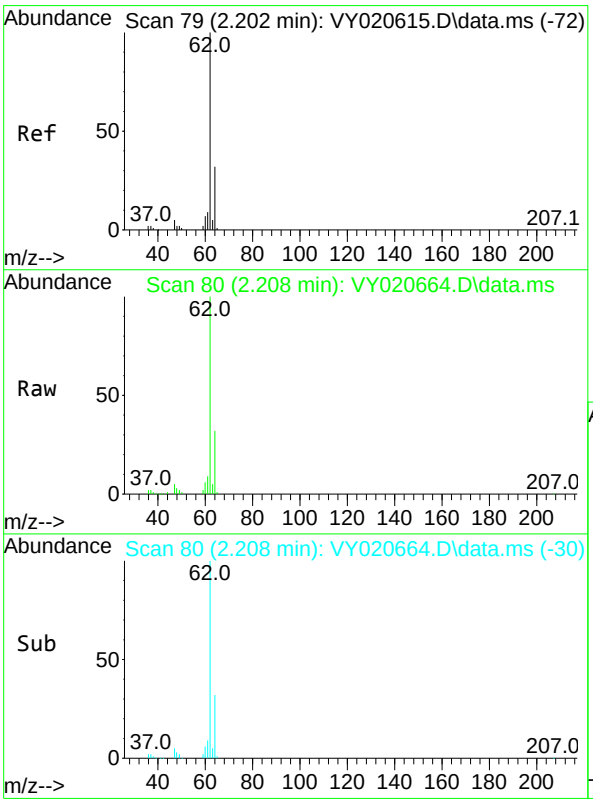

#3
Chloromethane
Concen: 43.800 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 50 Resp: 65890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.6 | 26.8 | 40.2 |

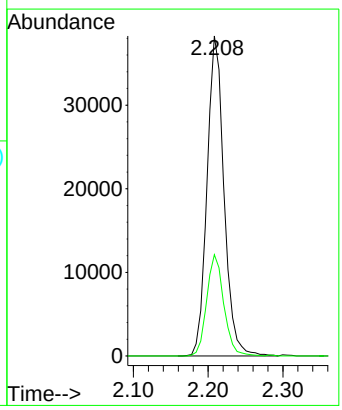


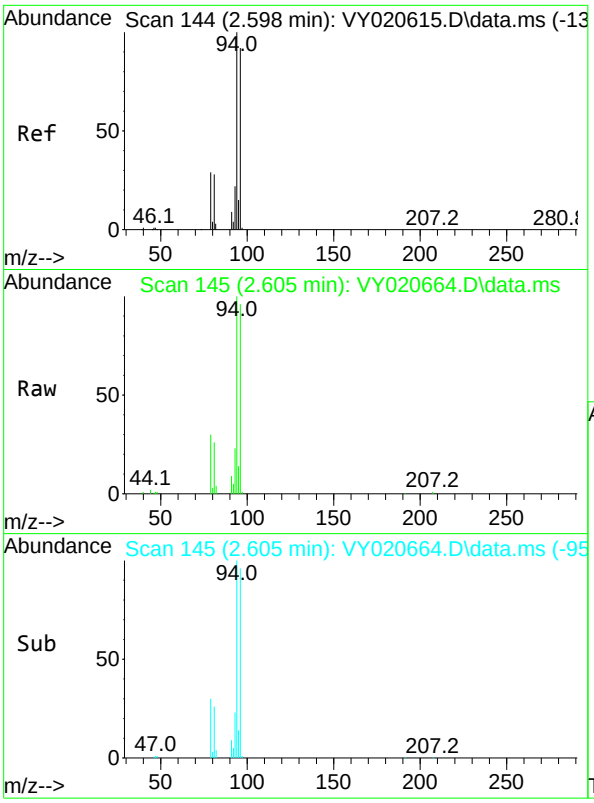




#4
Vinyl Chloride
Concen: 43.169 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 62 Resp: 60443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.7 | 25.3 | 37.9 |



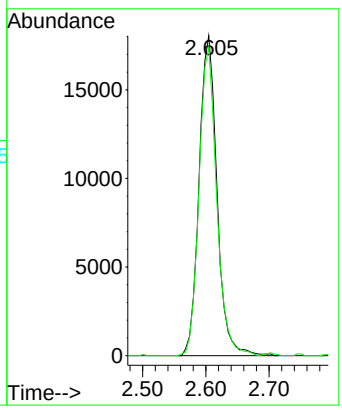


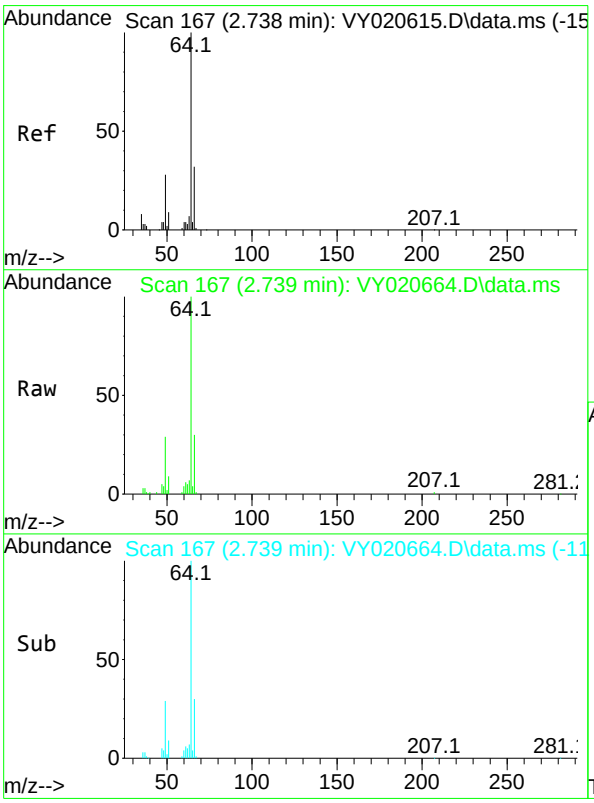

#5
Bromomethane
Concen: 39.522 ug/l
RT: 2.605 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 94 Resp: 35571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.4 | 73.8 | 110.6 |

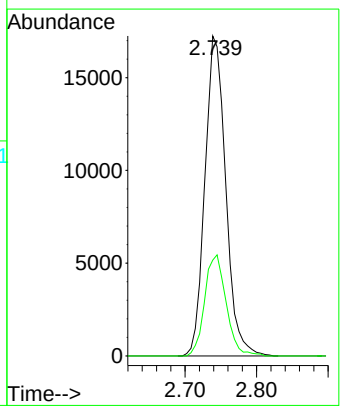


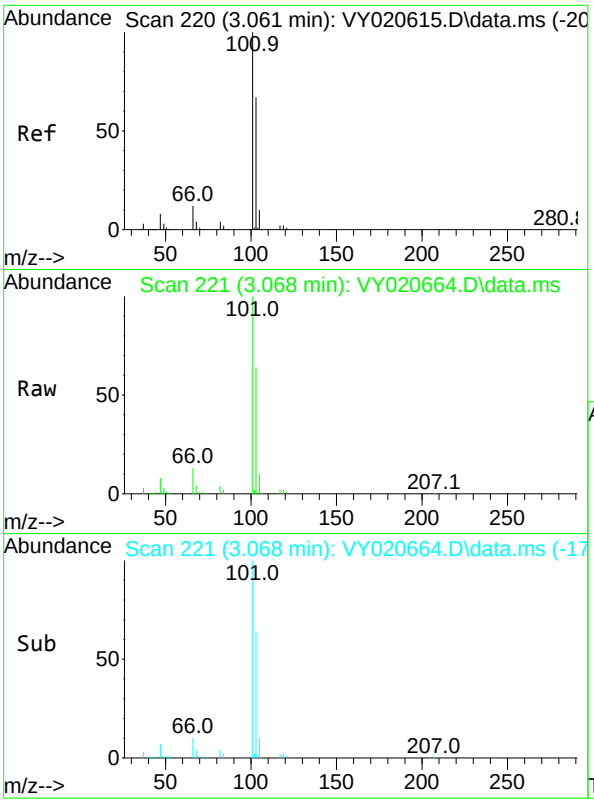




#6
Chloroethane
Concen: 40.318 ug/l
RT: 2.739 min Scan# 167
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 64 Resp: 34884

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.0 | 25.8 | 38.6 |



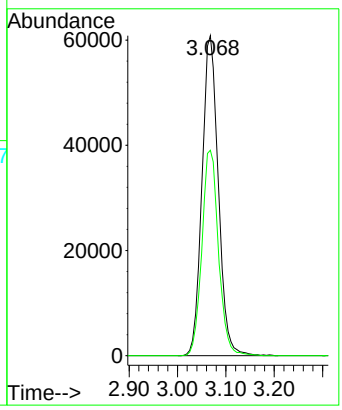


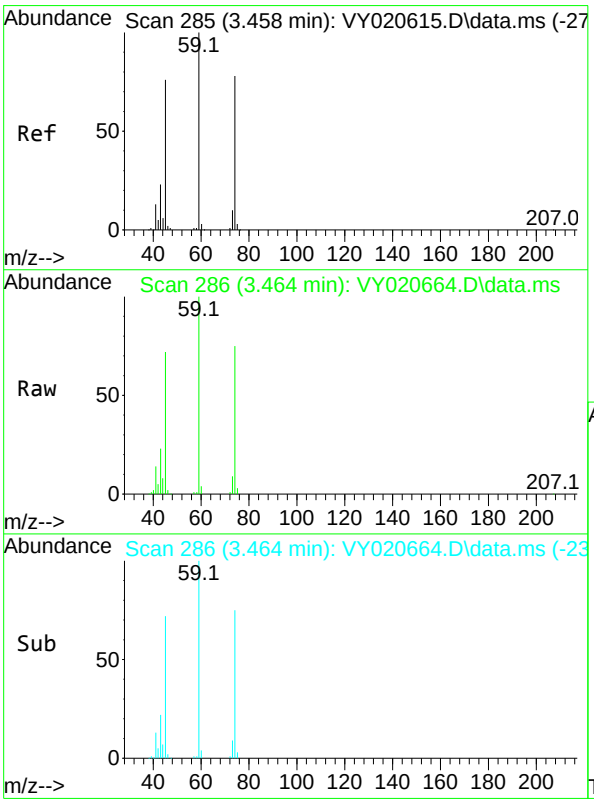

#7
Trichlorofluoromethane
Concen: 48.639 ug/l
RT: 3.068 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 142498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.2 | 53.4 | 80.0 |

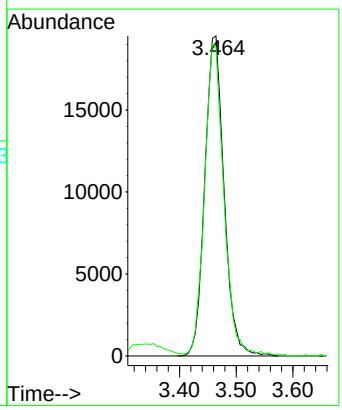


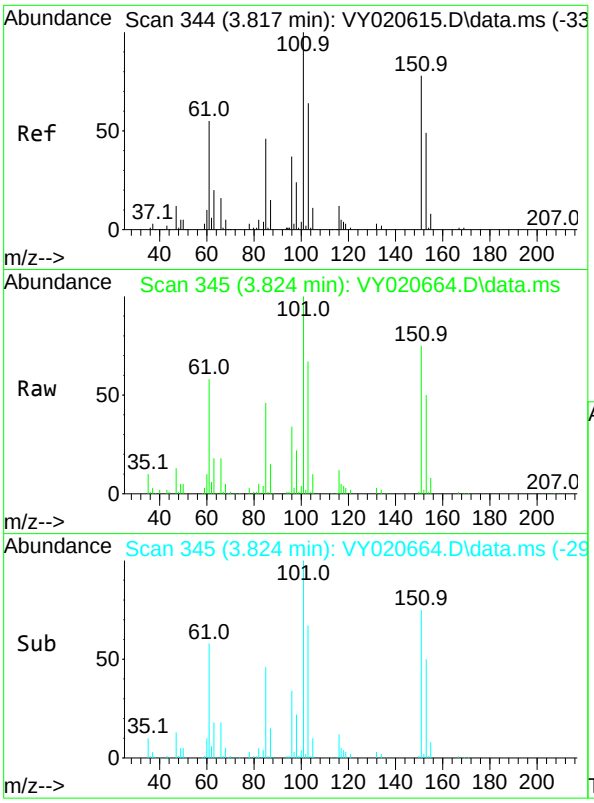




#8
Diethyl Ether
Concen: 44.802 ug/l
RT: 3.464 min Scan# 286
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 74 Resp: 46033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.1 | 49.0 | 147.2 |



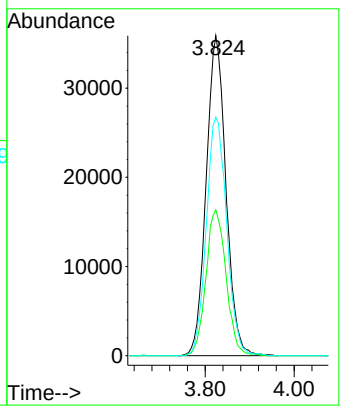


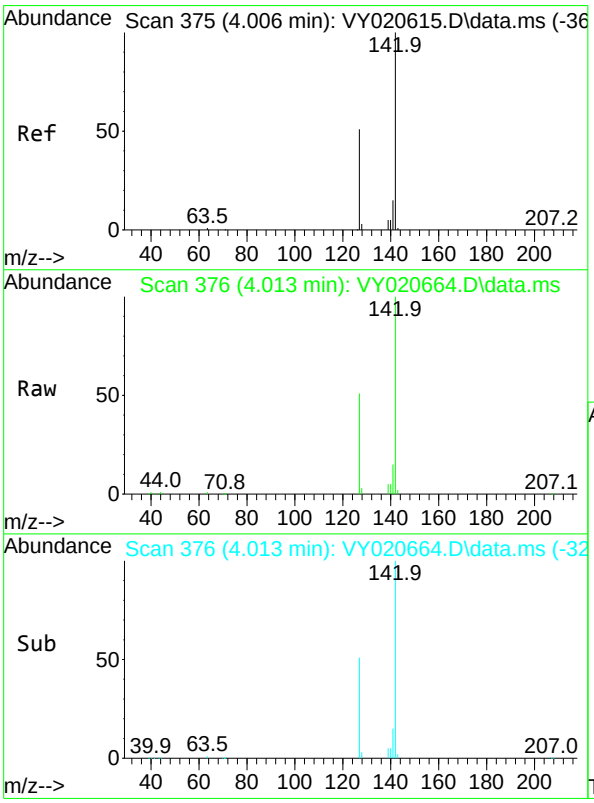

#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.831 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 110942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.5 | 36.6 | 54.8 |
| 151 | 77.1 | 61.5 | 92.3 |

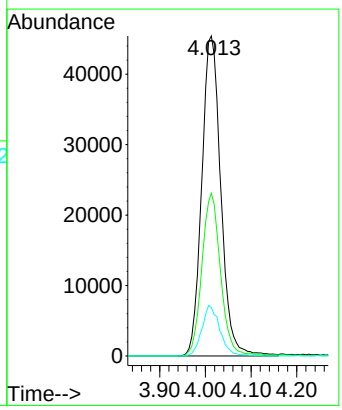


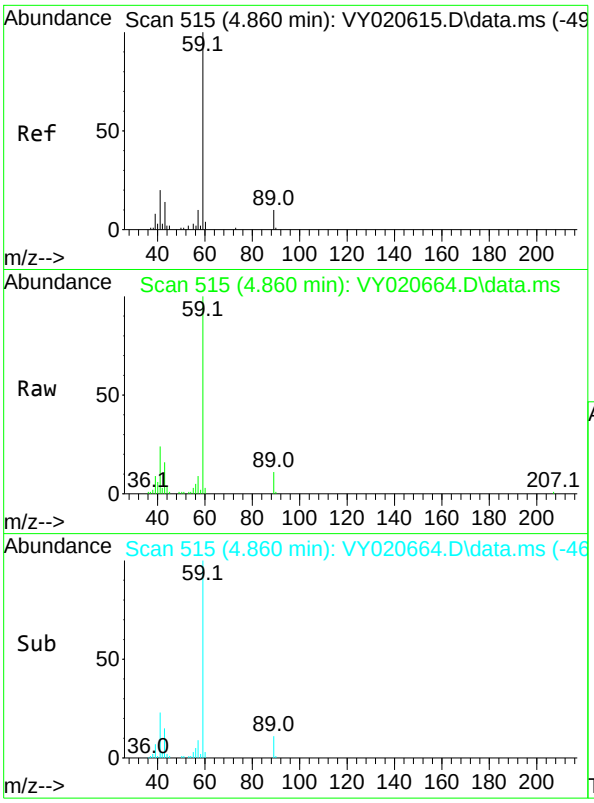




#10
Methyl Iodide
Concen: 56.311 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.007 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:142 Resp: 131655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 49.9 | 40.6 | 61.0 |
| 141 | 15.0 | 11.7 | 17.5 |



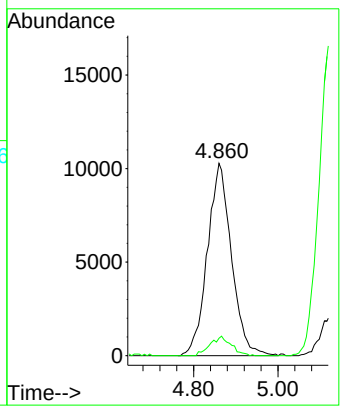


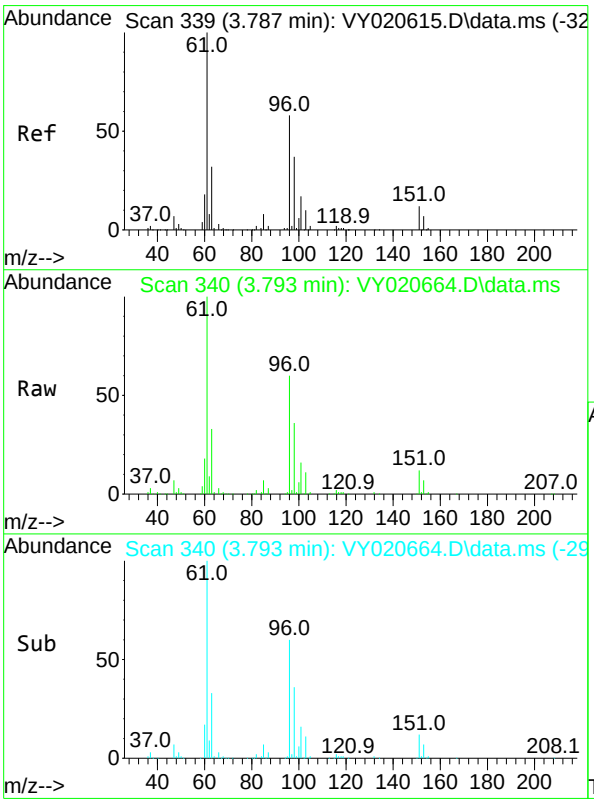

#11
Tert butyl alcohol
Concen: 212.136 ug/l
RT: 4.860 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 59 Resp: 40751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.9 | 7.4 | 11.0 |

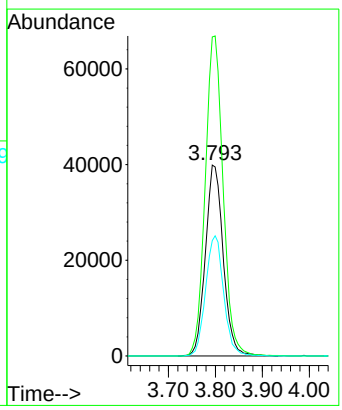


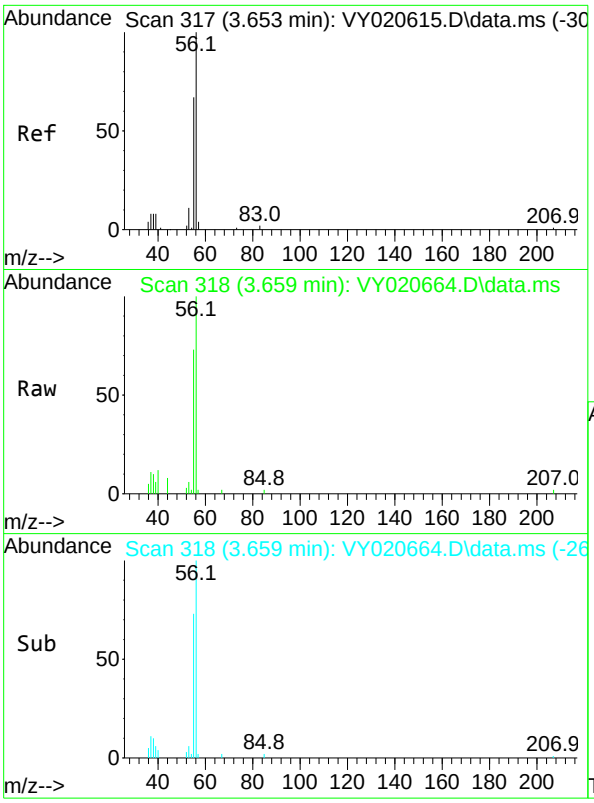




#12
1,1-Dichloroethene
Concen: 51.529 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 96 Resp: 104993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 167.1 | 136.9 | 205.3 |
| 98 | 60.4 | 50.2 | 75.4 |



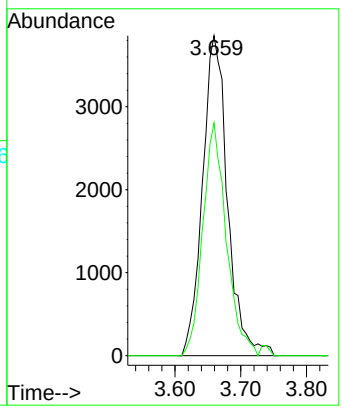


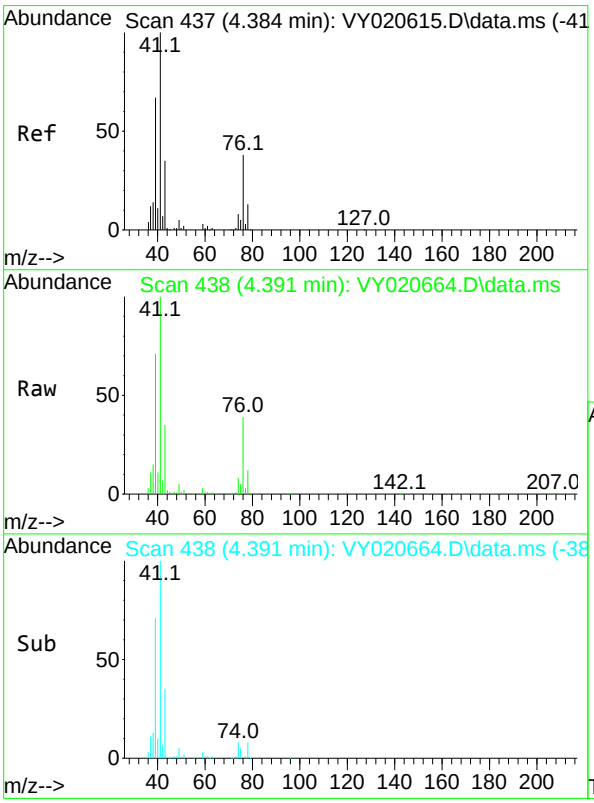

#13
Acrolein
Concen: 120.792 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 10168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.3 | 57.5 | 86.3 |

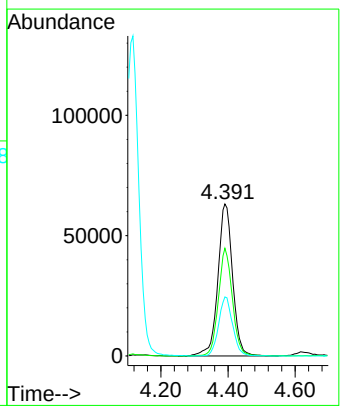


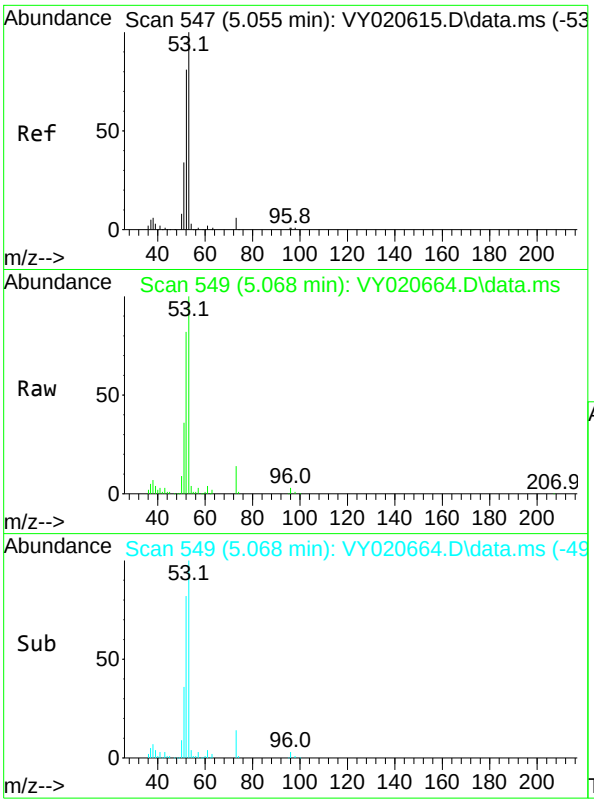




#14
Allyl chloride
Concen: 53.969 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 41 Resp: 192684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 67.0 | 53.0 | 79.4 |
| 76 | 36.8 | 29.5 | 44.3 |



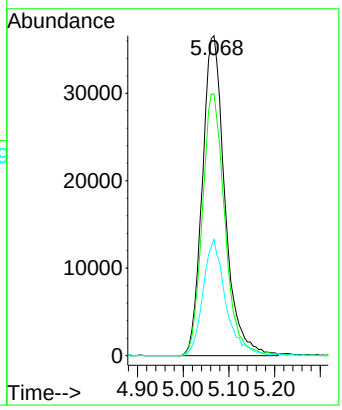


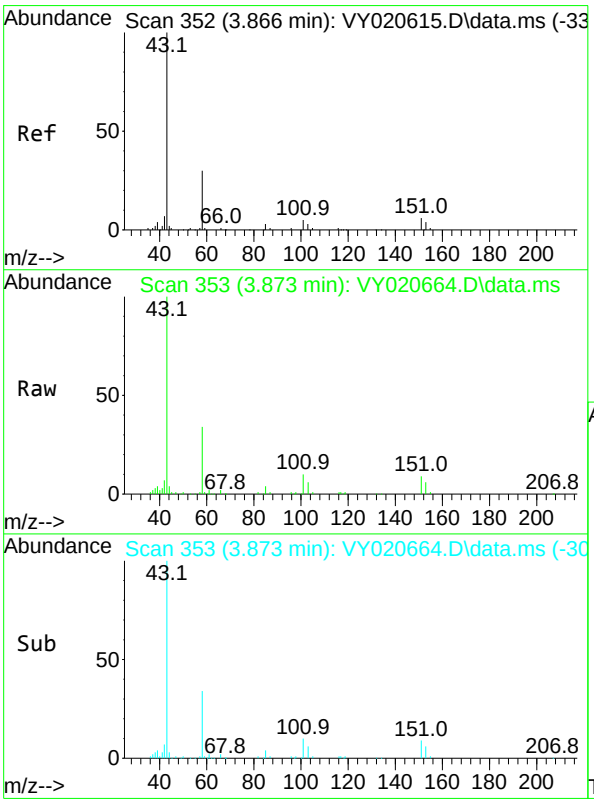

#15
Acrylonitrile
Concen: 254.850 ug/l
RT: 5.068 min Scan# 54
Delta R.T. 0.012 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 53 Resp: 125271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.2 | 64.5 | 96.7 |
| 51 | 36.5 | 29.4 | 44.0 |

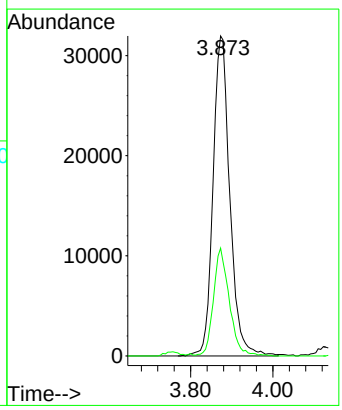


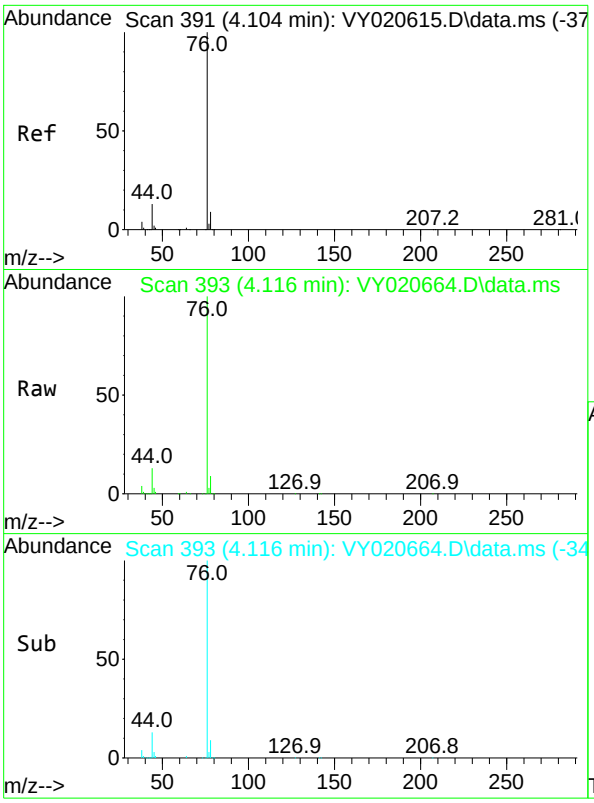




#16
Acetone
Concen: 256.402 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.007 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 90623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.7 | 25.0 | 37.6 |



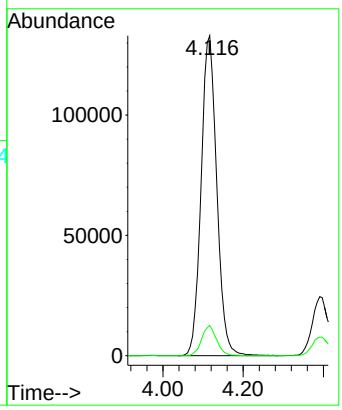


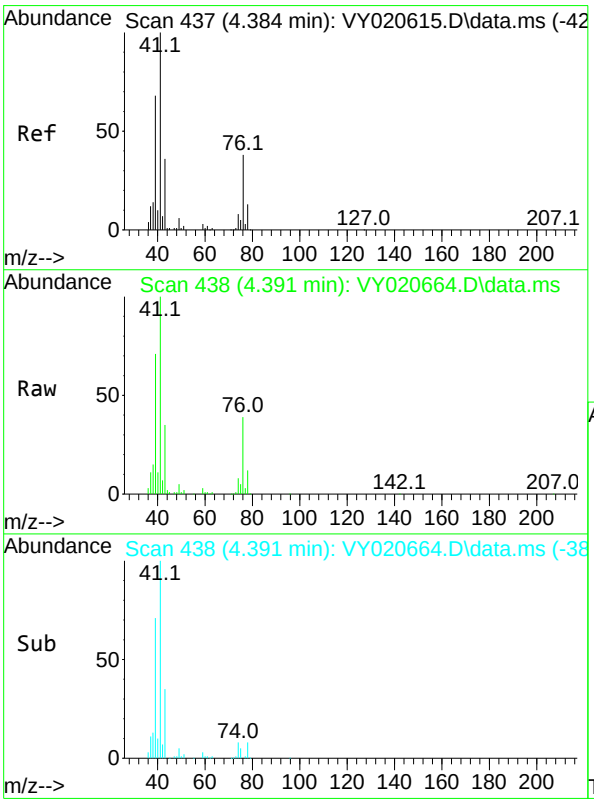

#17
Carbon Disulfide
Concen: 54.380 ug/l
RT: 4.116 min Scan# 3
Delta R.T. 0.013 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 360666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.5 | 7.2 | 10.8 |

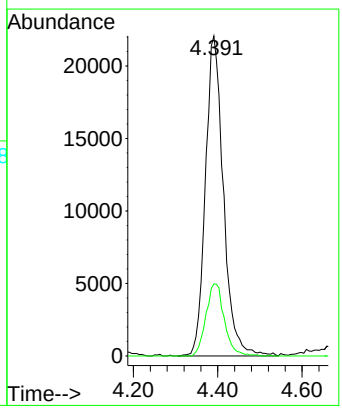


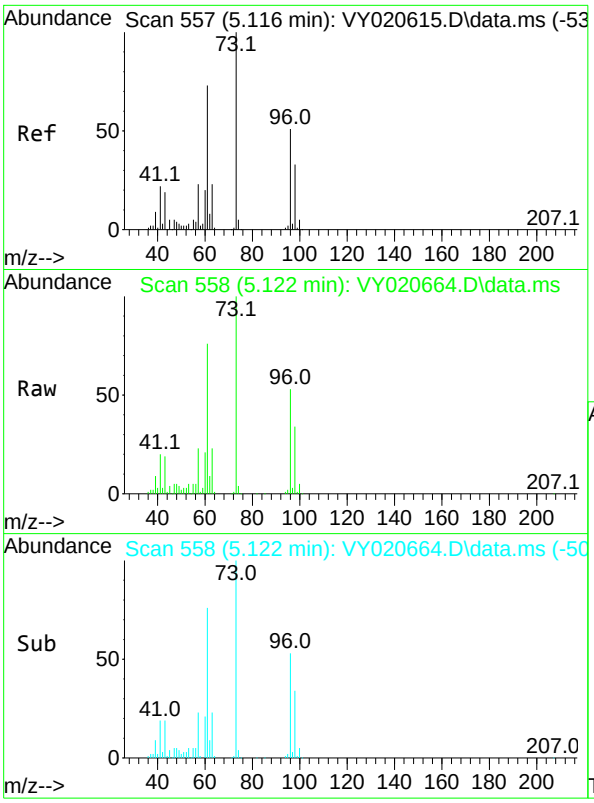




#18
Methyl Acetate
Concen: 53.944 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 65339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.1 | 19.2 | 28.8 |



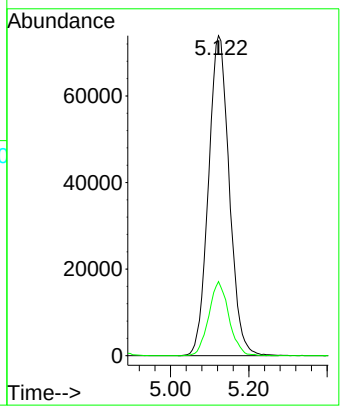


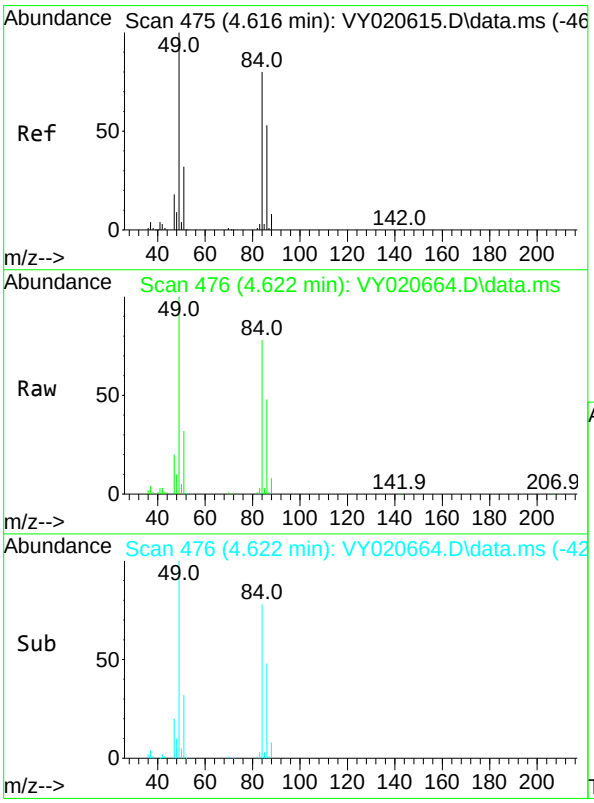

#19
Methyl tert-butyl Ether
Concen: 51.833 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 73 Resp: 272592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.1 | 18.5 | 27.7 |

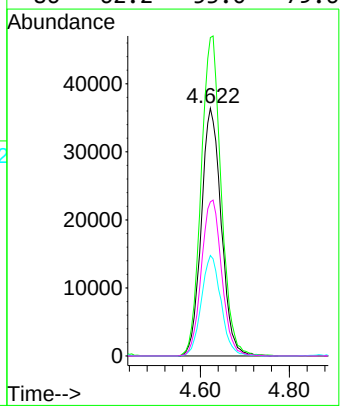


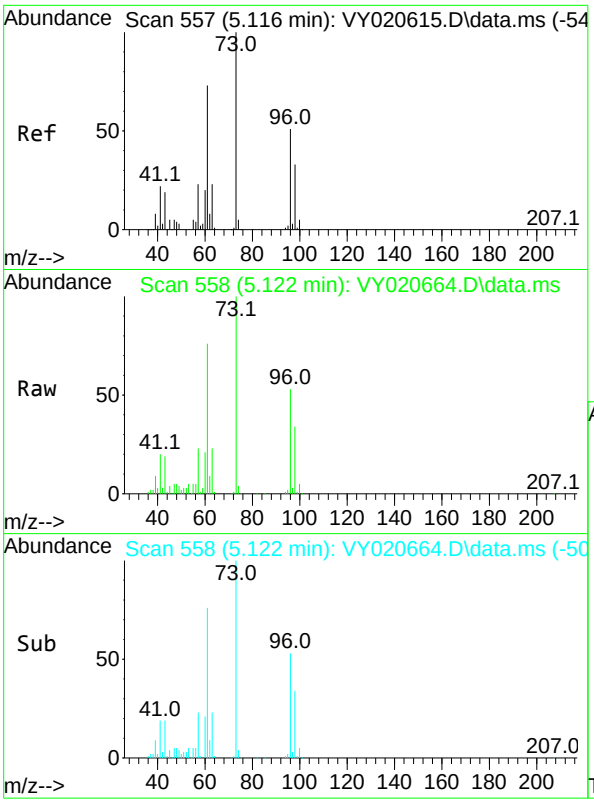




#20
Methylene Chloride
Concen: 51.431 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 84 Resp: 113838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 128.6 | 100.7 | 151.1 |
| 51 | 40.6 | 32.2 | 48.2 |
| 86 | 62.2 | 53.0 | 79.6 |



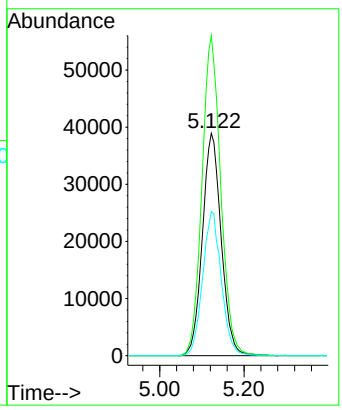


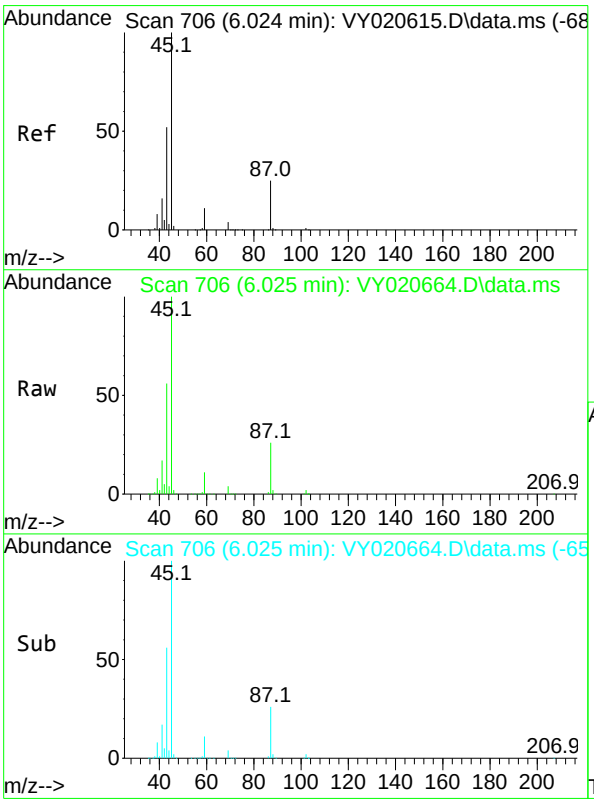

#21
trans-1,2-Dichloroethene
Concen: 52.751 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 120568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.9 | 113.7 | 170.5 |
| 98 | 64.8 | 51.7 | 77.5 |

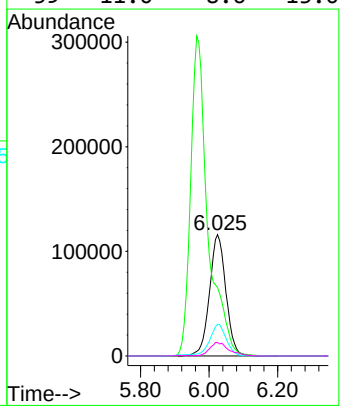


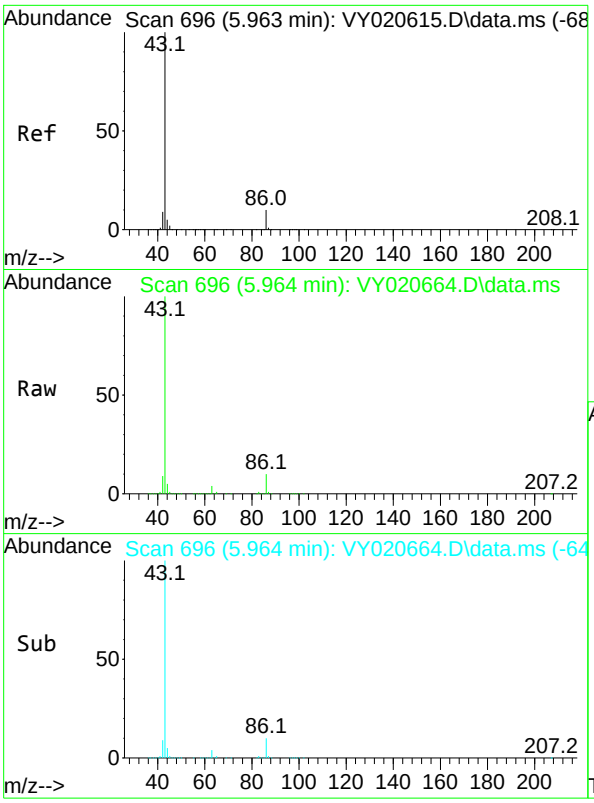




#22
Diisopropyl ether
Concen: 53.195 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 45 Resp: 385510

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 56.1 | 42.6 | 64.0 |
| 87 | 26.0 | 20.6 | 31.0 |
| 59 | 11.0 | 8.6 | 13.0 |



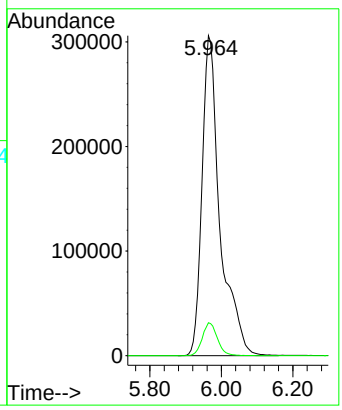


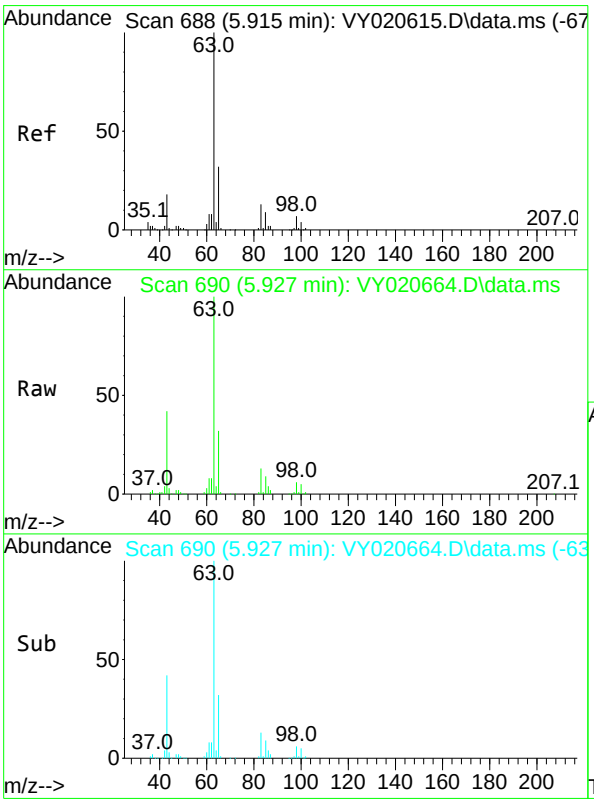

#23
Vinyl Acetate
Concen: 260.253 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 1068233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.3 | 8.1 | 12.1 |

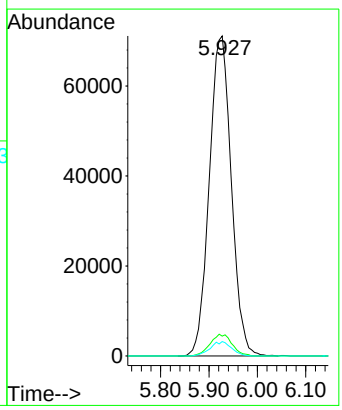


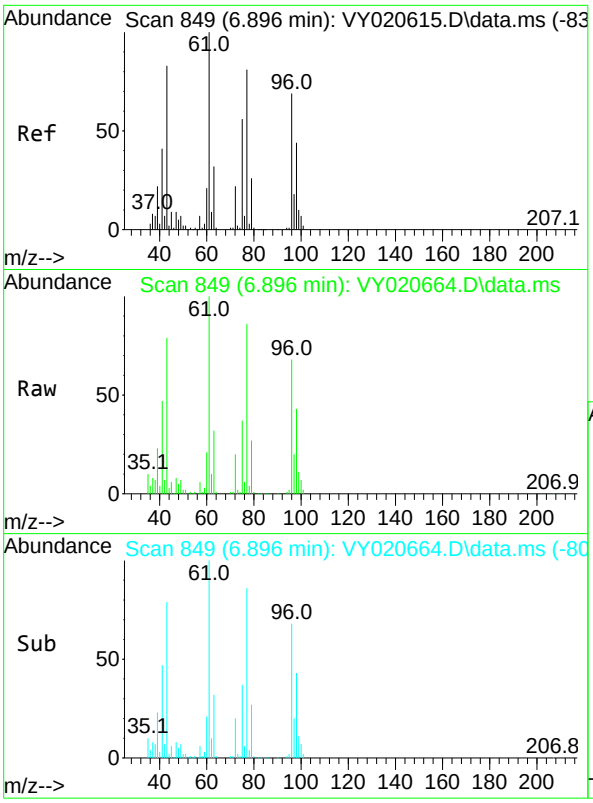




#24
1,1-Dichloroethane
Concen: 52.991 ug/l
RT: 5.927 min Scan# 690
Delta R.T. 0.013 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 63 Resp: 224983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.2 | 3.4 | 10.1 |
| 100 | 4.5 | 2.1 | 6.5 |



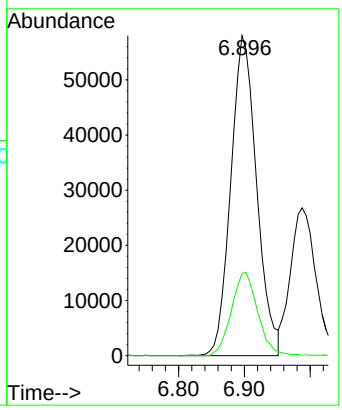


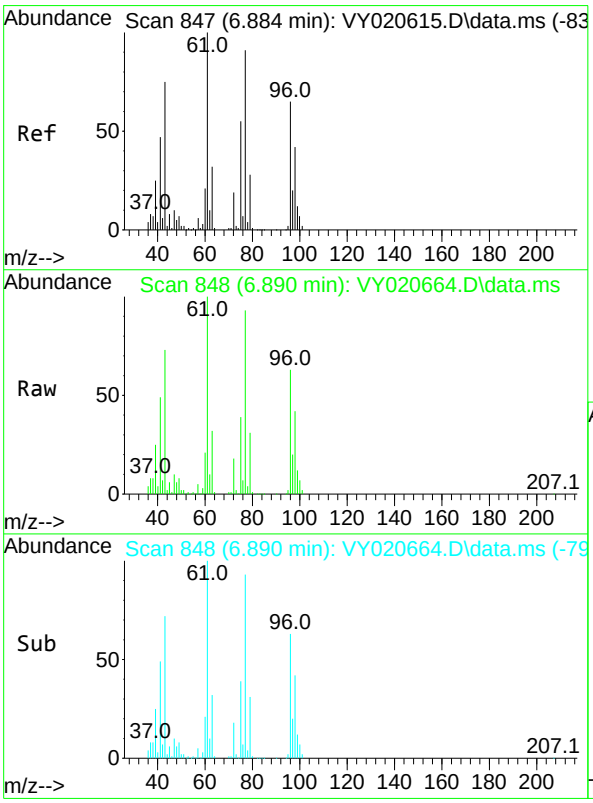

#25
2-Butanone
Concen: 239.715 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 158594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.8 | 20.6 | 31.0 |

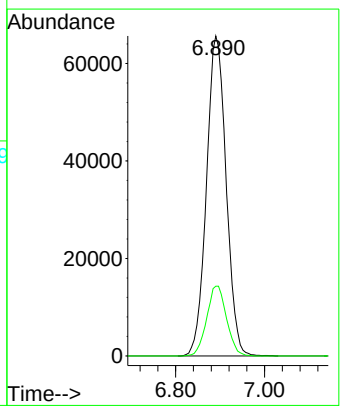


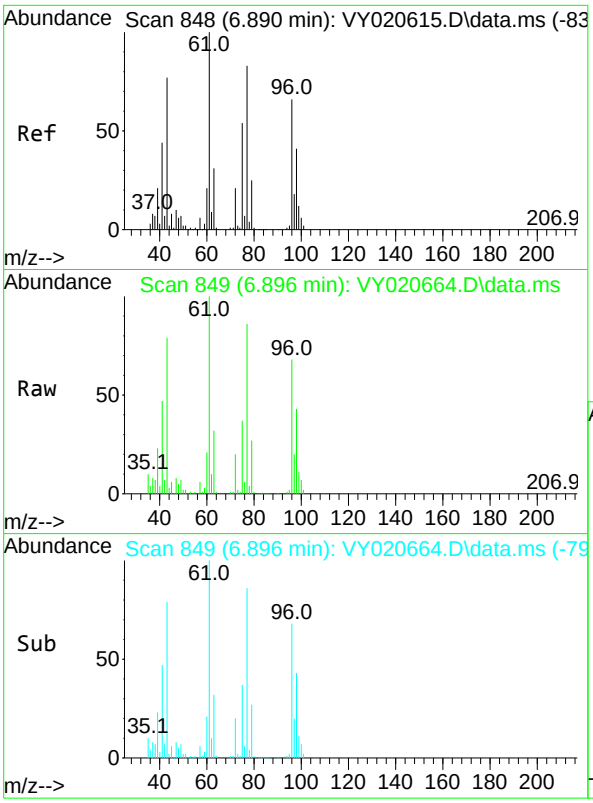




#26
2,2-Dichloropropane
Concen: 50.287 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 77 Resp: 201830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |



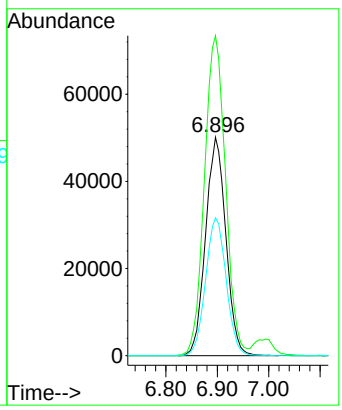


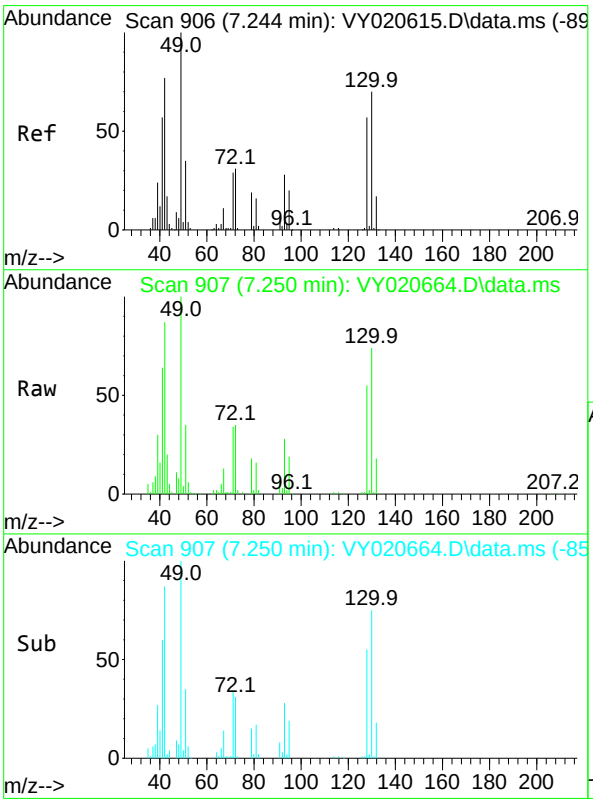

#27
cis-1,2-Dichloroethene
Concen: 52.244 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 137382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.8 | 0.0 | 306.2 |
| 98 | 64.2 | 0.0 | 127.2 |

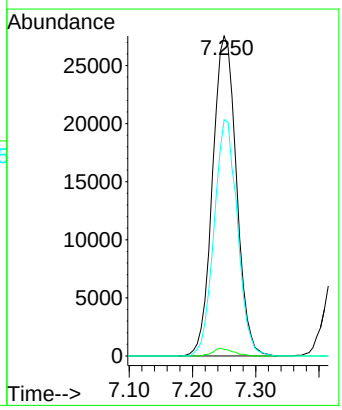


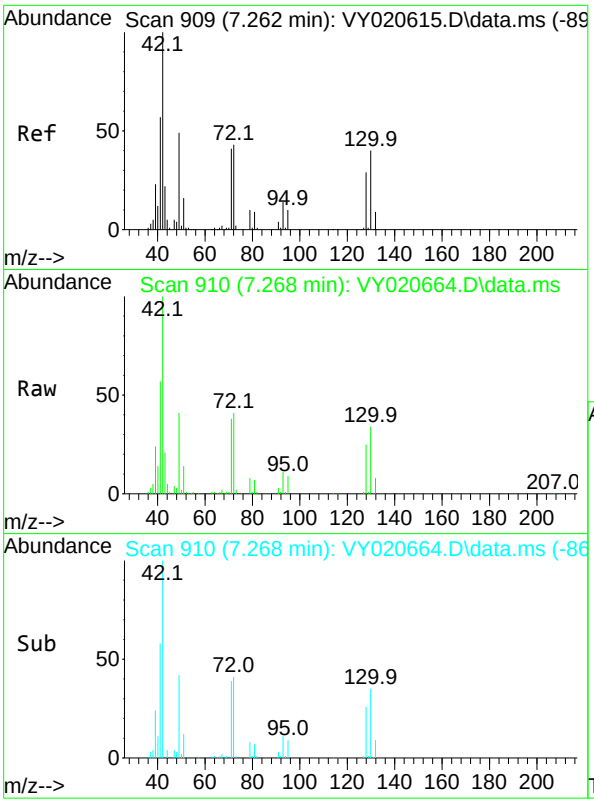




#28
Bromochloromethane
Concen: 50.330 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 49 Resp: 72076

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 3.8 |
| 130 | 71.9 | 58.3 | 87.5 |



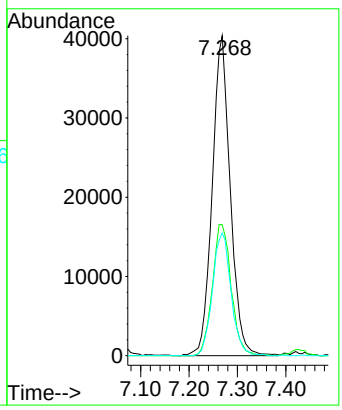


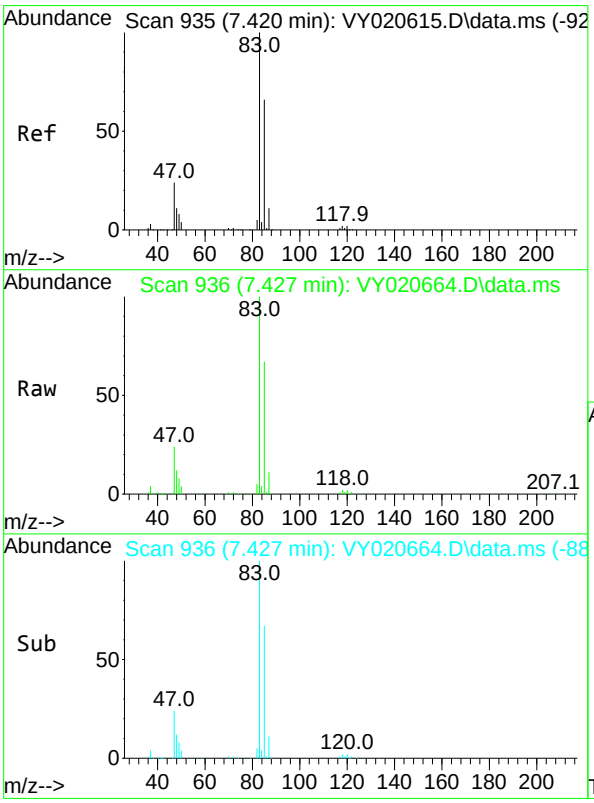

#29
Tetrahydrofuran
Concen: 250.559 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 42 Resp: 104646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.9 | 34.0 | 51.0 |
| 71 | 39.5 | 31.6 | 47.4 |

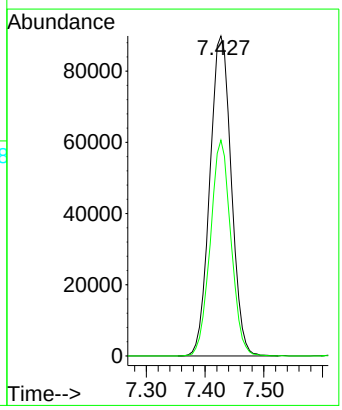


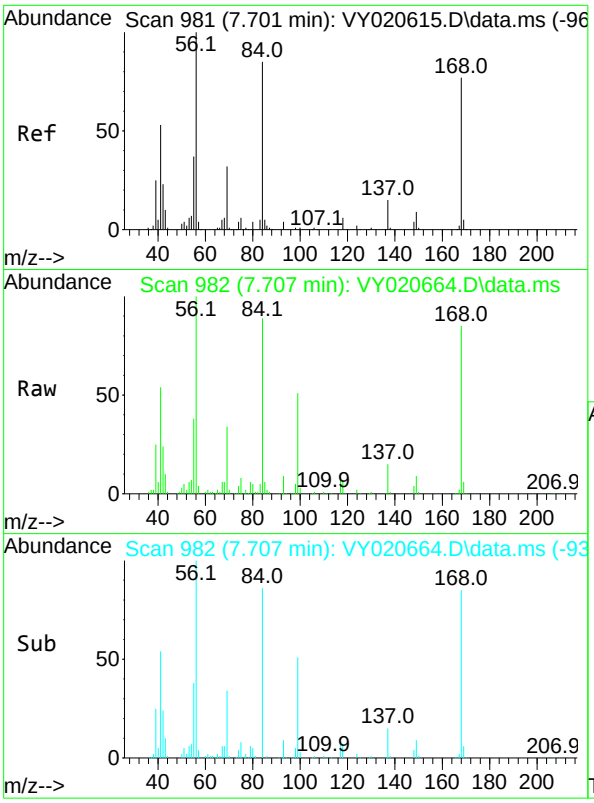




#30
Chloroform
Concen: 53.857 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.007 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 83 Resp: 227859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.5 | 52.7 | 79.1 |



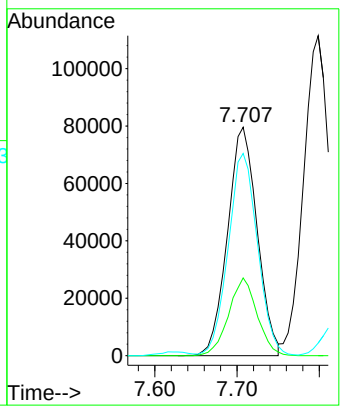


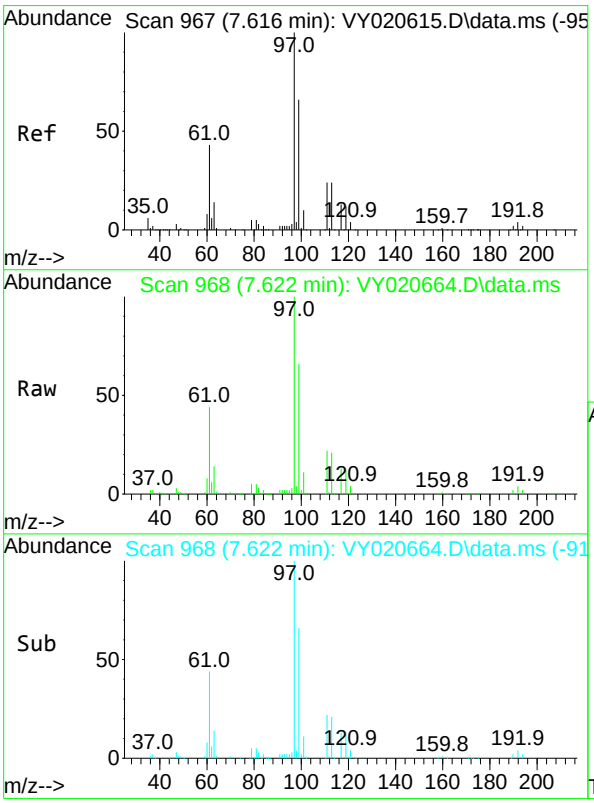

#31
Cyclohexane
Concen: 49.141 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 199490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 34.0 | 25.4 | 38.0 |
| 84 | 86.9 | 68.3 | 102.5 |

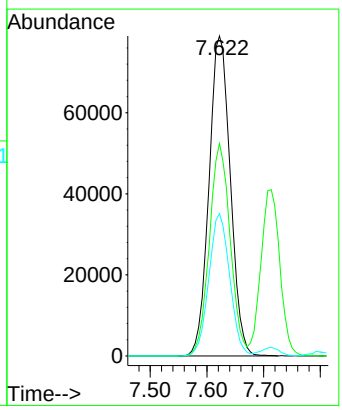


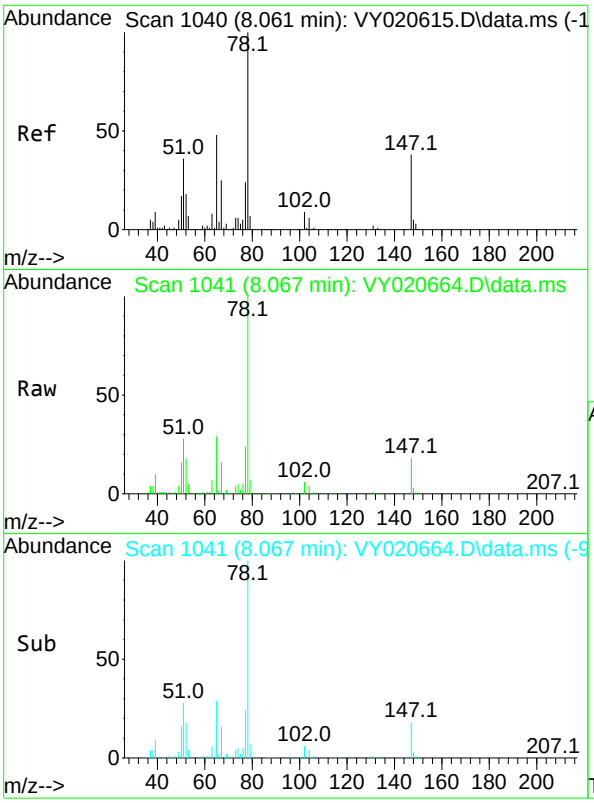




#32
1,1,1-Trichloroethane
Concen: 52.846 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 97 Resp: 206129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.9 | 51.6 | 77.4 |
| 61 | 43.6 | 34.7 | 52.1 |



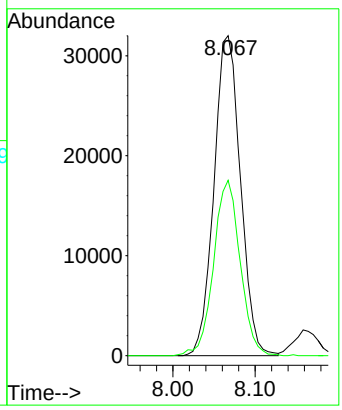


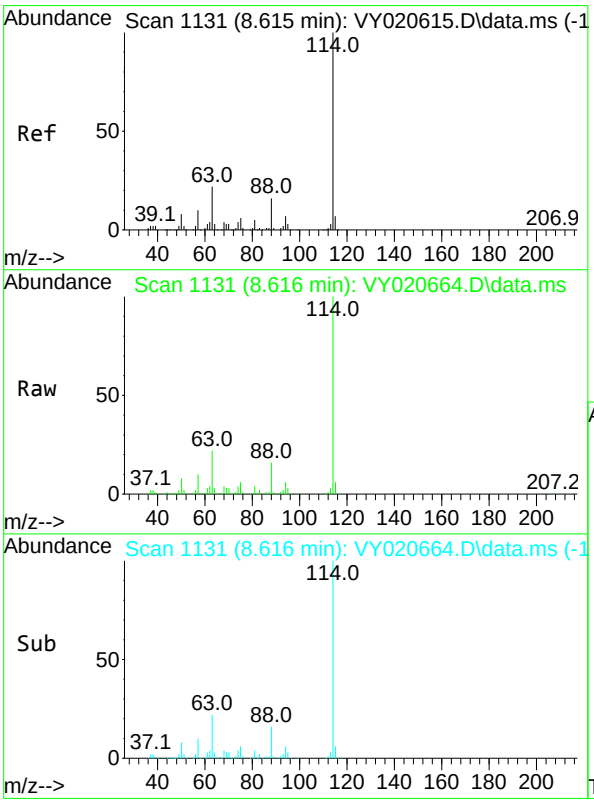

#33
1,2-Dichloroethane-d4
Concen: 40.336 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 65 Resp: 71807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.8 | 0.0 | 108.0 |

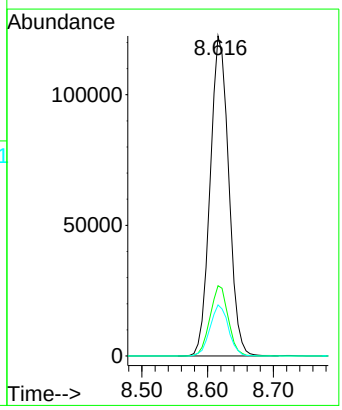


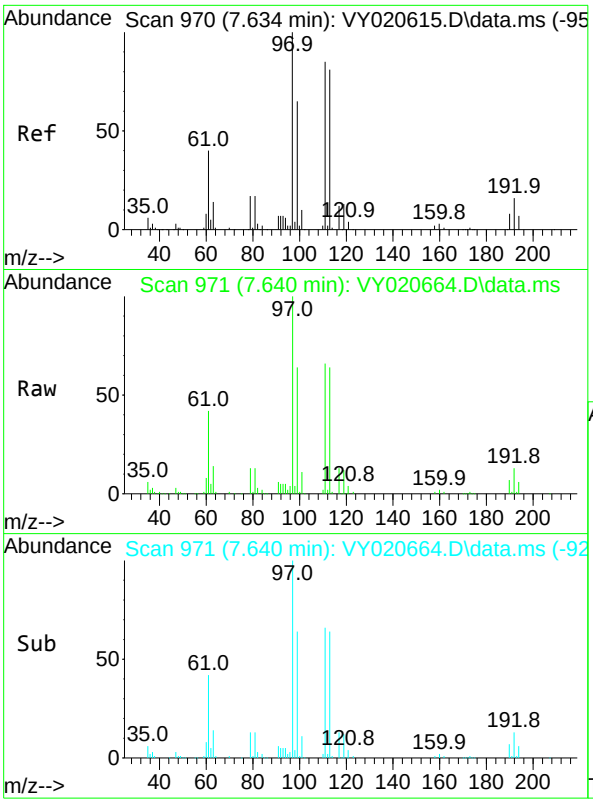




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:114 Resp: 240673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.0 | 0.0 | 44.0 |
| 88 | 16.0 | 0.0 | 32.8 |



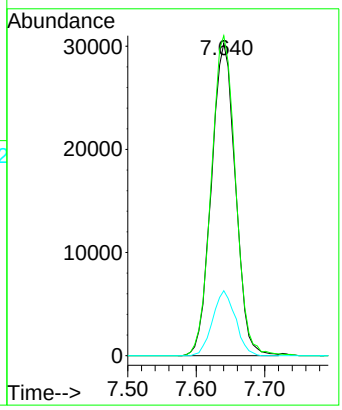


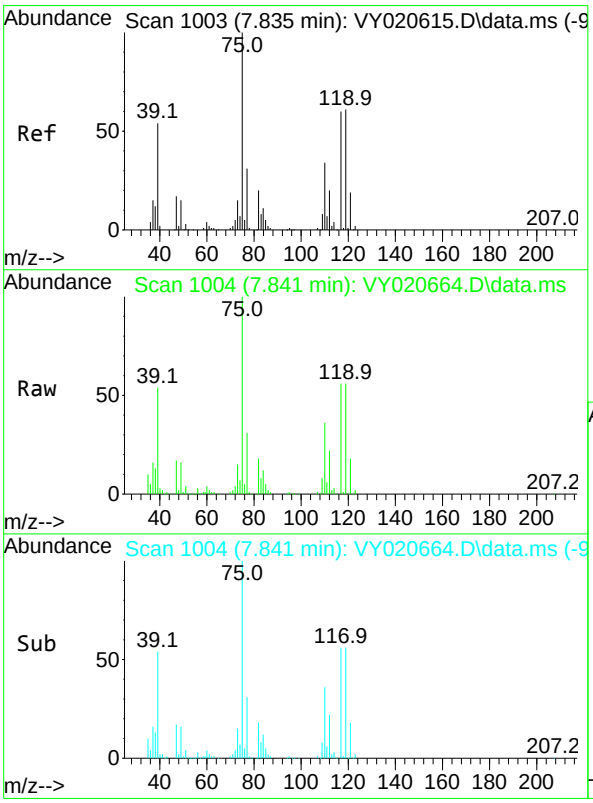

#35
Dibromofluoromethane
Concen: 43.459 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:113 Resp: 73716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.4 | 82.9 | 124.3 |
| 192 | 19.8 | 15.7 | 23.5 |

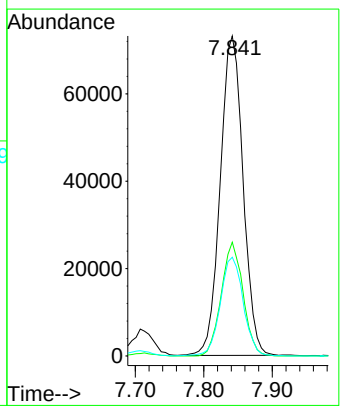


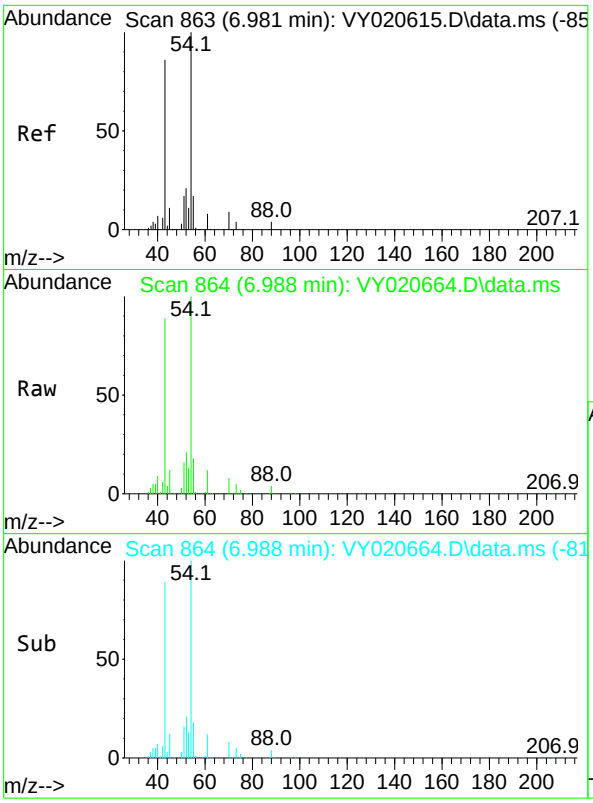




#36
1,1-Dichloropropene
Concen: 54.656 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 75 Resp: 169048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.9 | 16.8 | 50.4 |
| 77 | 31.1 | 25.0 | 37.6 |



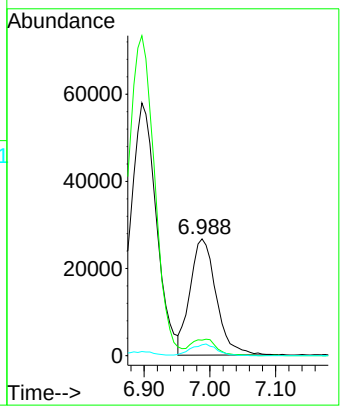


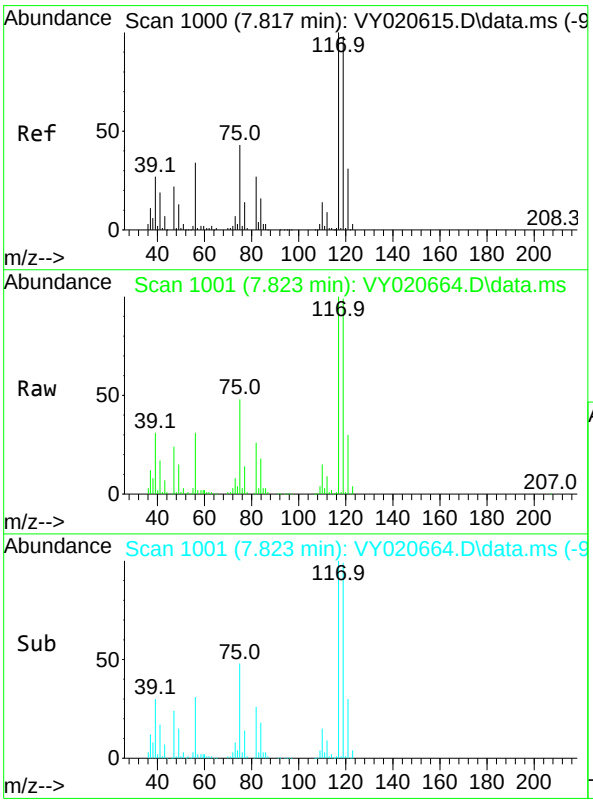

#37
Ethyl Acetate
Concen: 50.481 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 73443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.5 | 11.0 | 16.4 |
| 70 | 9.9 | 7.9 | 11.9 |

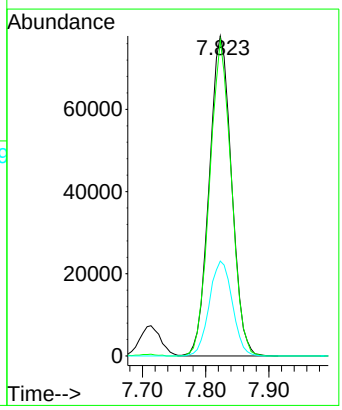


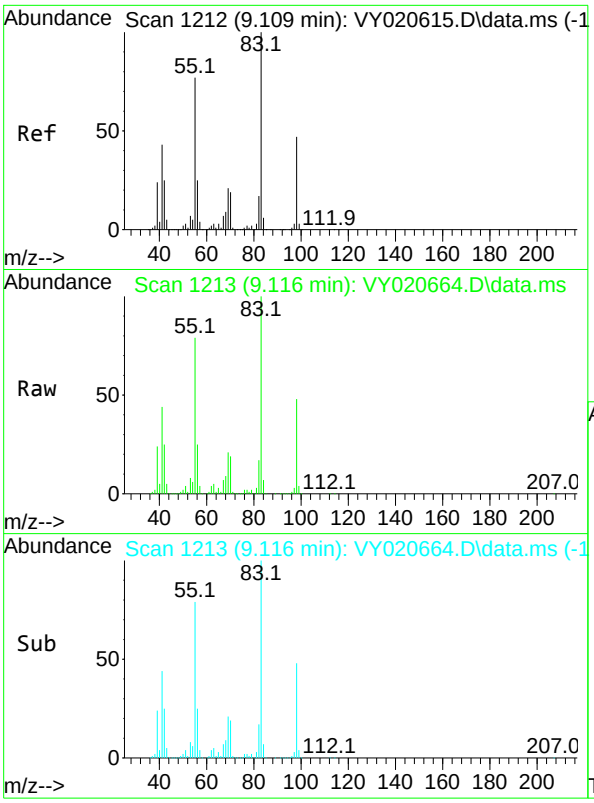




#38
Carbon Tetrachloride
Concen: 55.798 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:117 Resp: 190940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.6 | 78.3 | 117.5 |
| 121 | 29.6 | 25.1 | 37.7 |



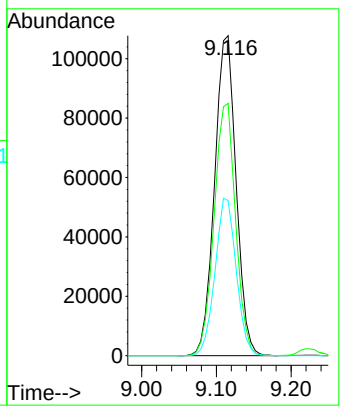


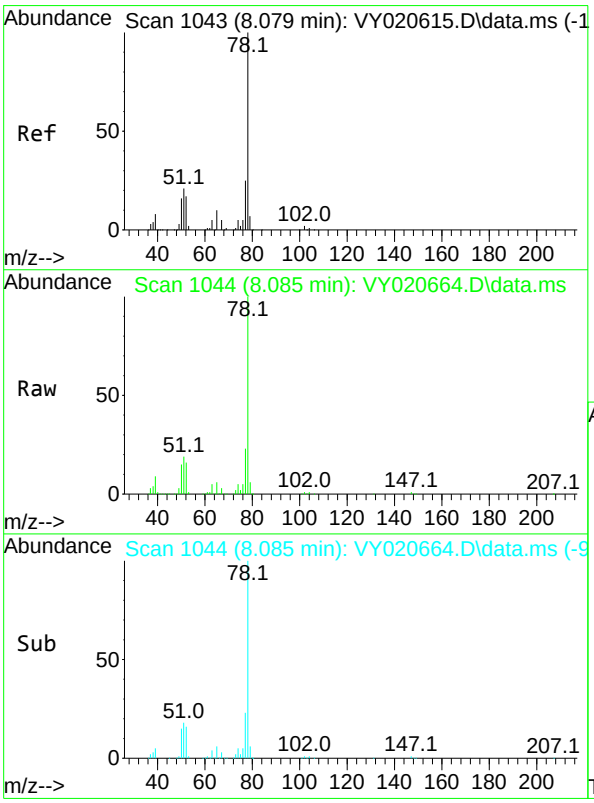

#39
Methylcyclohexane
Concen: 53.650 ug/l
RT: 9.116 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 216273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 78.8 | 61.4 | 92.0 |
| 98 | 48.5 | 37.3 | 55.9 |

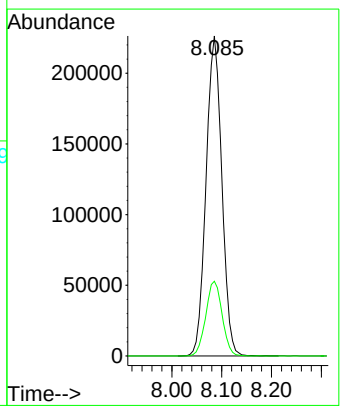


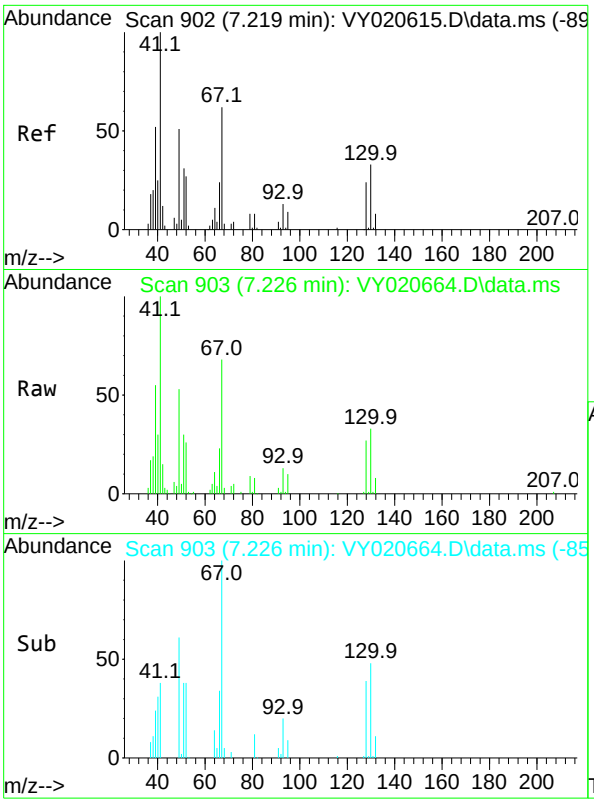




#40
Benzene
Concen: 54.799 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 78 Resp: 496803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.3 | 20.1 | 30.1 |



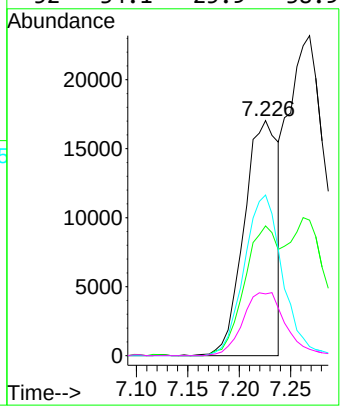


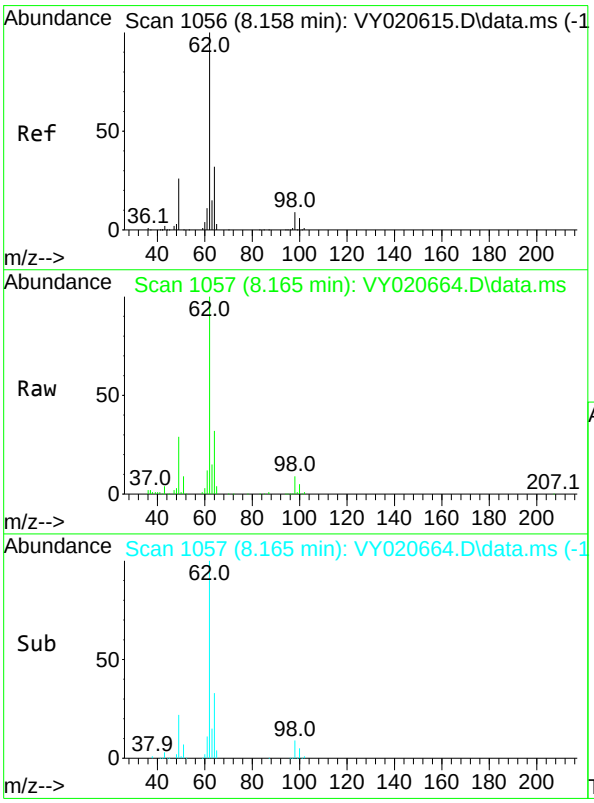

#41
Methacrylonitrile
Concen: 50.789 ug/l
RT: 7.226 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 41 Resp: 39064

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.9 | 53.6 | 80.4 |
| 67 | 77.3 | 62.0 | 93.0 |
| 52 | 34.1 | 25.9 | 38.9 |

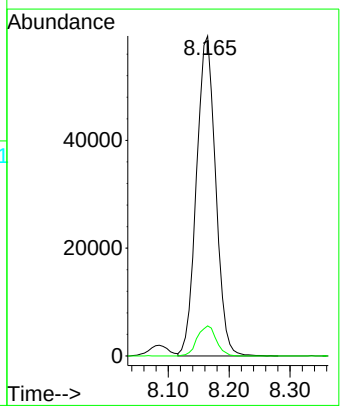


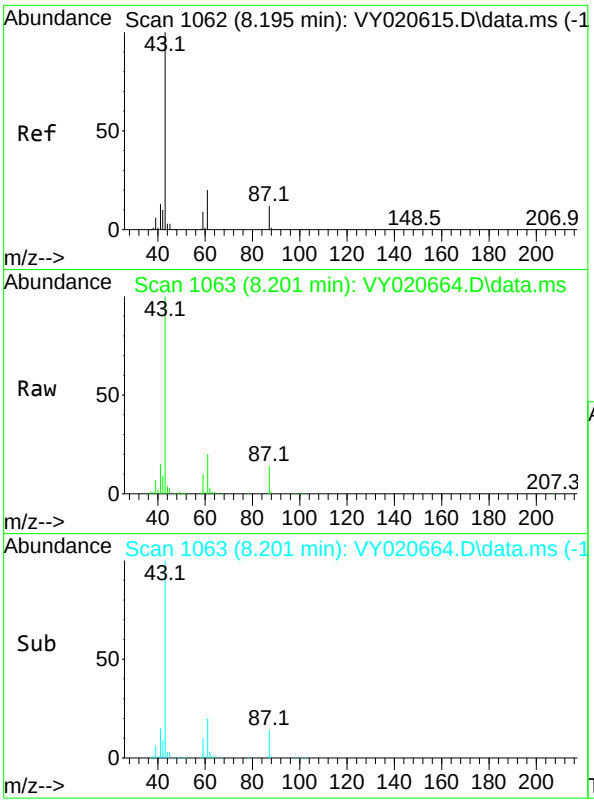




#42
1,2-Dichloroethane
Concen: 53.978 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 62 Resp: 129790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.3 | 0.0 | 18.0 |



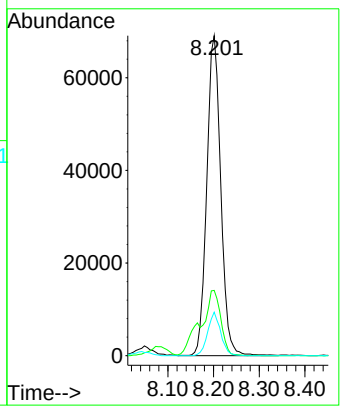


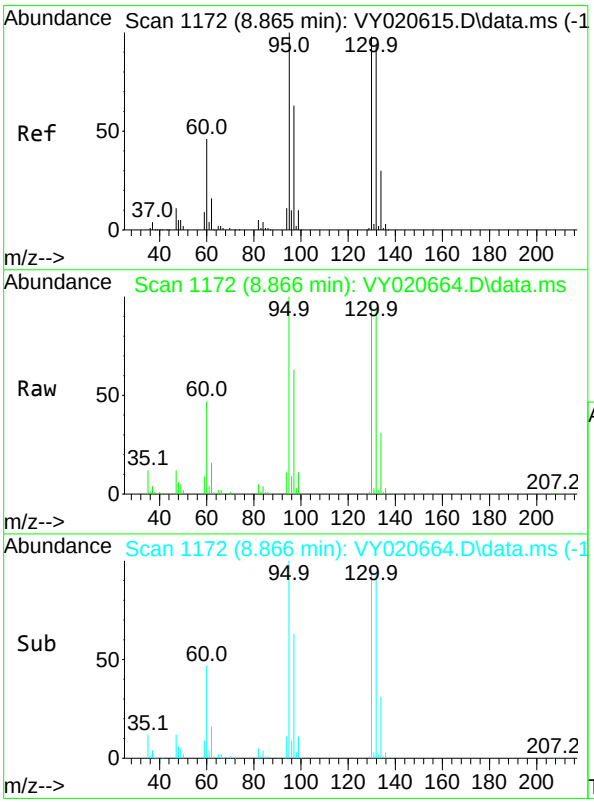

#43
Isopropyl Acetate
Concen: 53.344 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 146927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.5 | 23.8 | 35.6# |
| 87 | 12.6 | 10.2 | 15.4 |

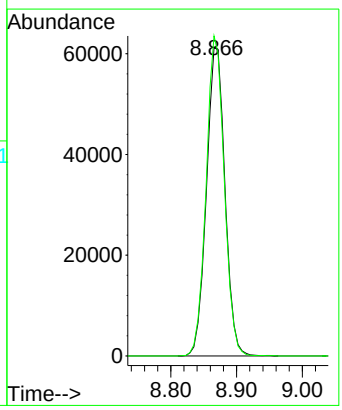


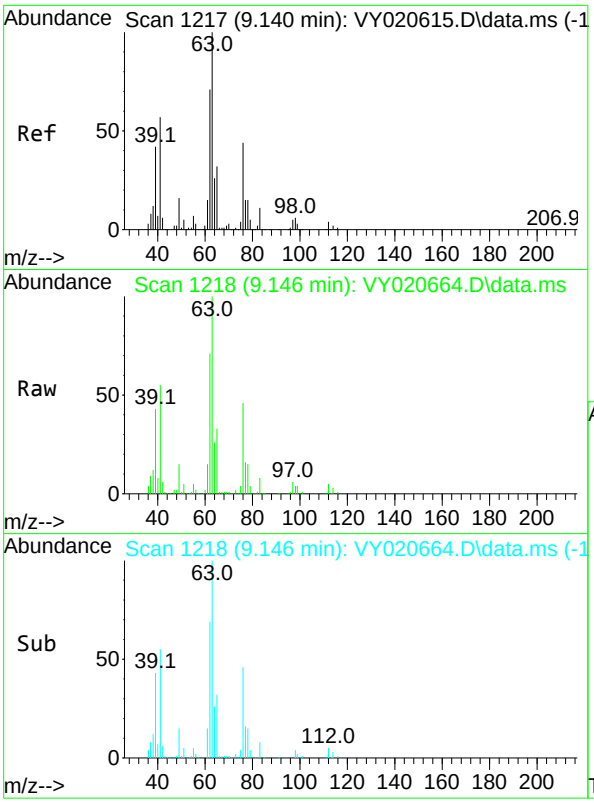




#44
Trichloroethene
Concen: 53.915 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:130 Resp: 120106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 103.8 | 0.0 | 203.2 |



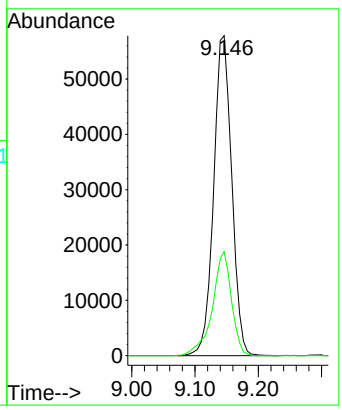


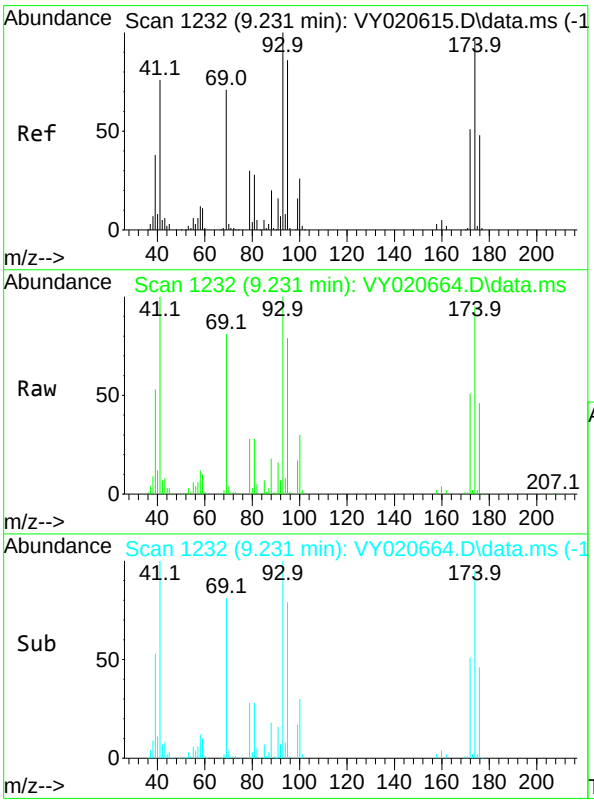

#45
1,2-Dichloropropane
Concen: 54.113 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 63 Resp: 114657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.5 | 25.9 | 38.9 |

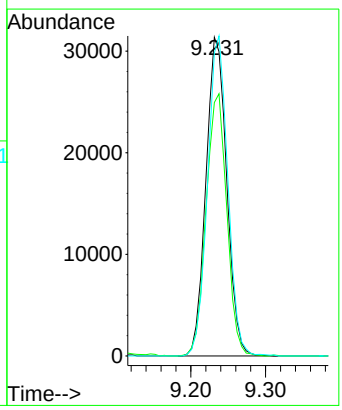


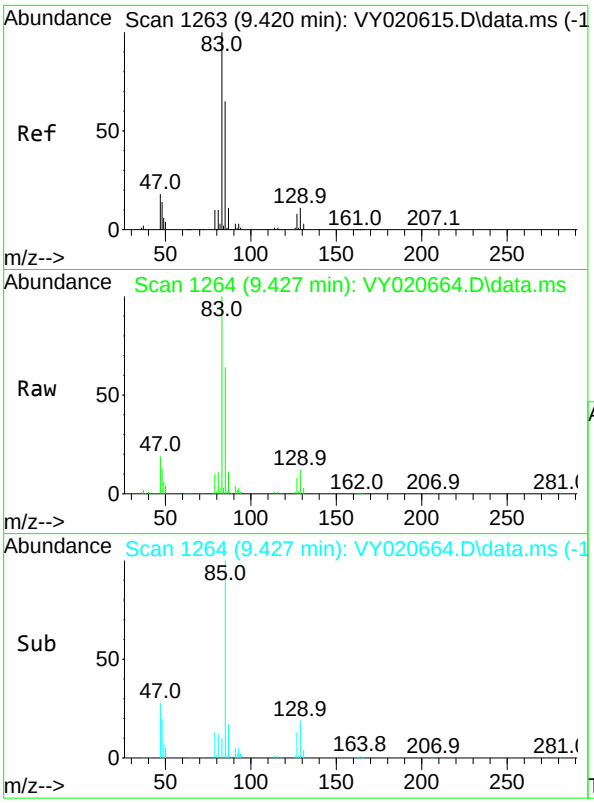




#46
Dibromomethane
Concen: 54.086 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 93 Resp: 60564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.9 | 66.7 | 100.1 |
| 174 | 97.9 | 77.8 | 116.6 |



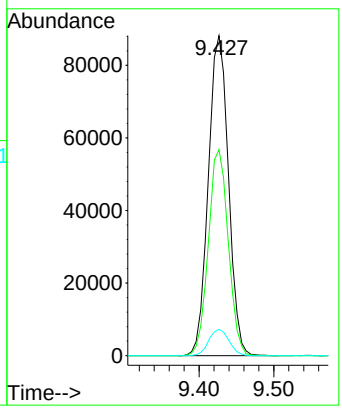


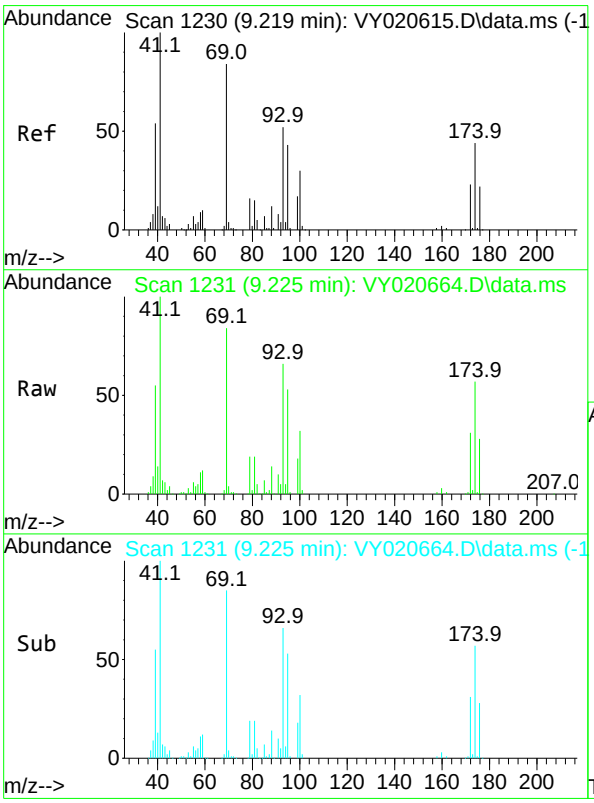

#47
Bromodichloromethane
Concen: 54.644 ug/l
RT: 9.427 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 165285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.4 | 52.1 | 78.1 |
| 127 | 8.2 | 6.7 | 10.1 |

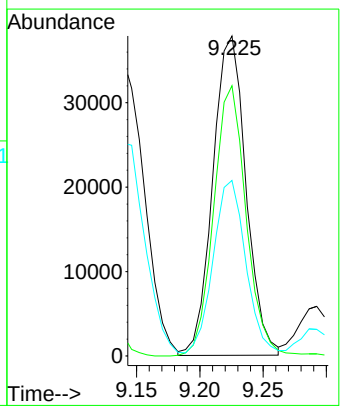


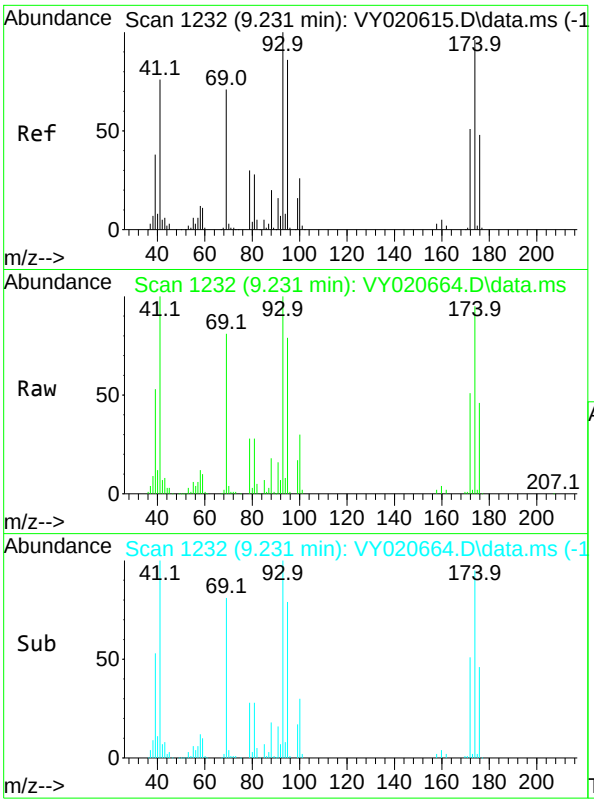




#48
Methyl methacrylate
Concen: 52.772 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 41 Resp: 69098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 82.9 | 67.2 | 100.8 |
| 39 | 52.7 | 42.2 | 63.4 |



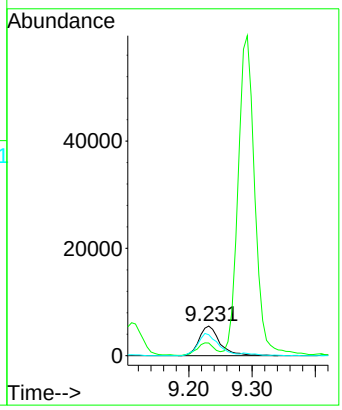


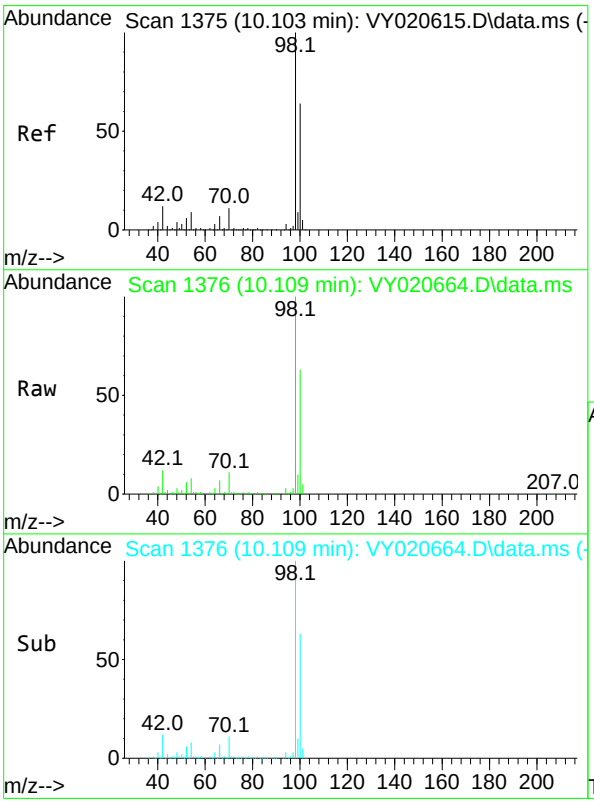

#49
1,4-Dioxane
Concen: 981.949 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 88 Resp: 12610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.8 | 27.6 | 41.4 |
| 58 | 73.7 | 61.7 | 92.5 |

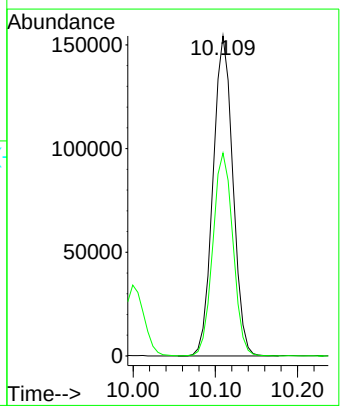


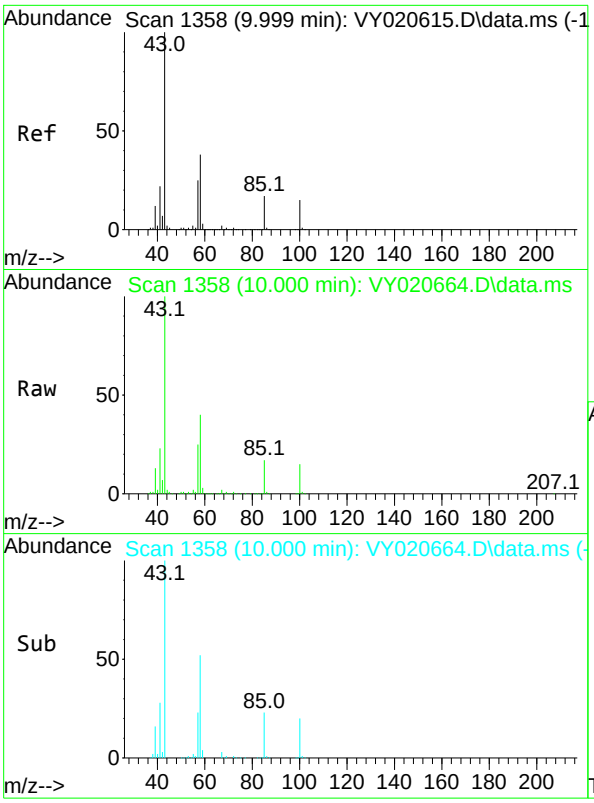




#50
Toluene-d8
Concen: 43.661 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 98 Resp: 259216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.2 | 52.1 | 78.1 |



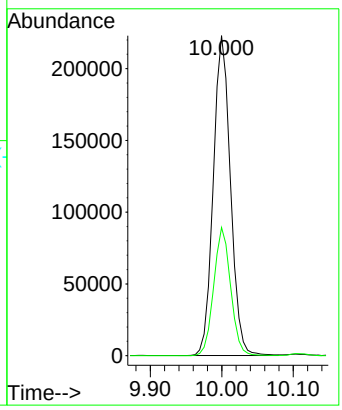


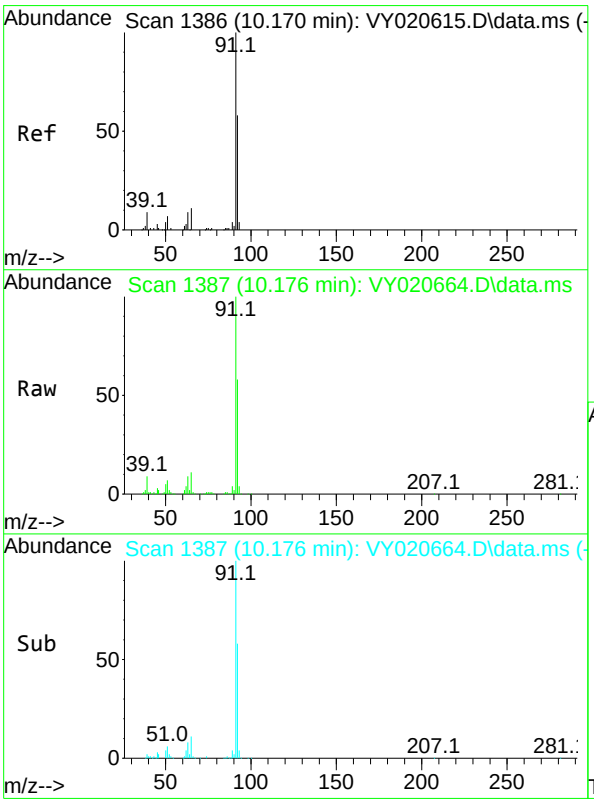

#51
4-Methyl-2-Pentanone
Concen: 256.228 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 372513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.4 | 31.4 | 47.2 |

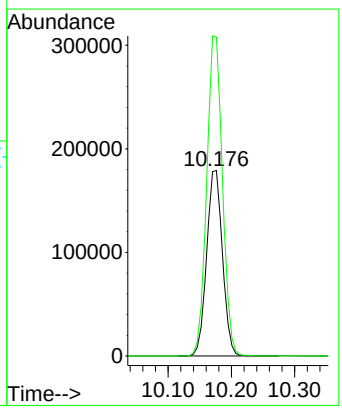


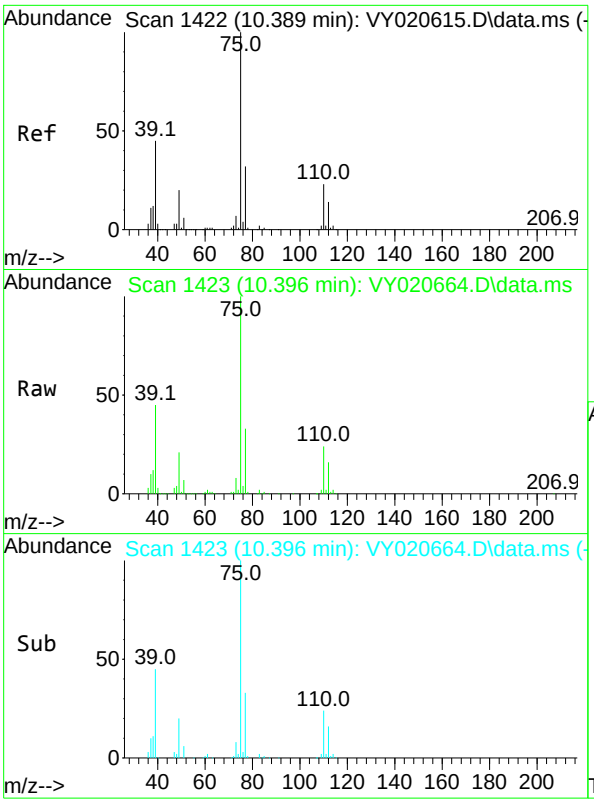




#52
Toluene
Concen: 55.159 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 92 Resp: 310772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.3 | 137.4 | 206.0 |



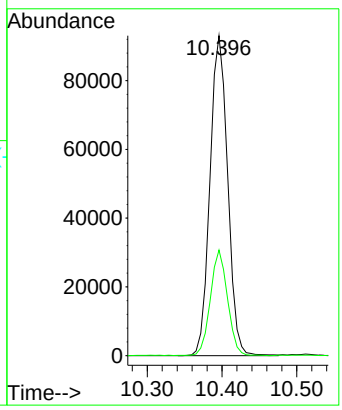


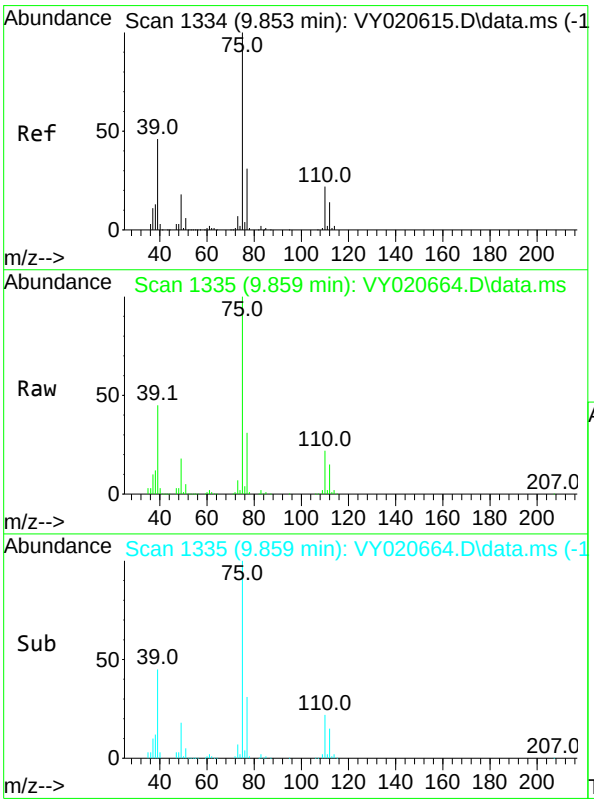

#53
t-1,3-Dichloropropene
Concen: 54.306 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 153061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.4 | 38.2 |

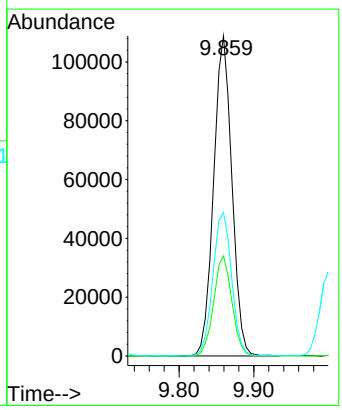


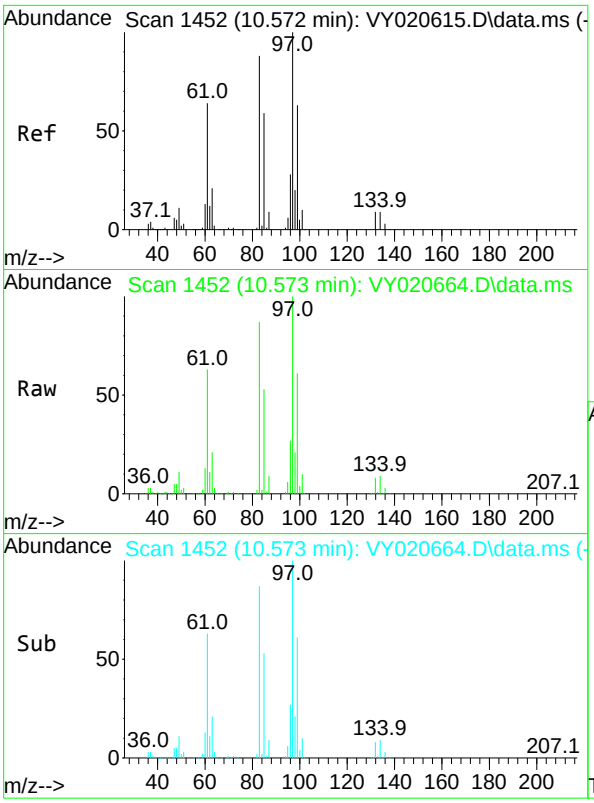




#54
cis-1,3-Dichloropropene
Concen: 55.407 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 75 Resp: 185052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 24.6 | 36.8 |
| 39 | 44.8 | 36.4 | 54.6 |



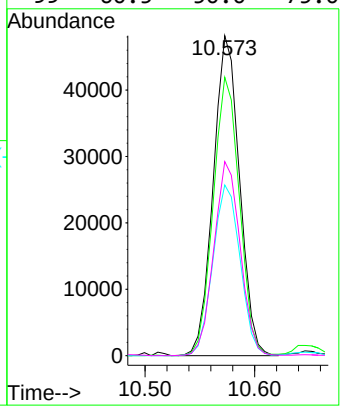


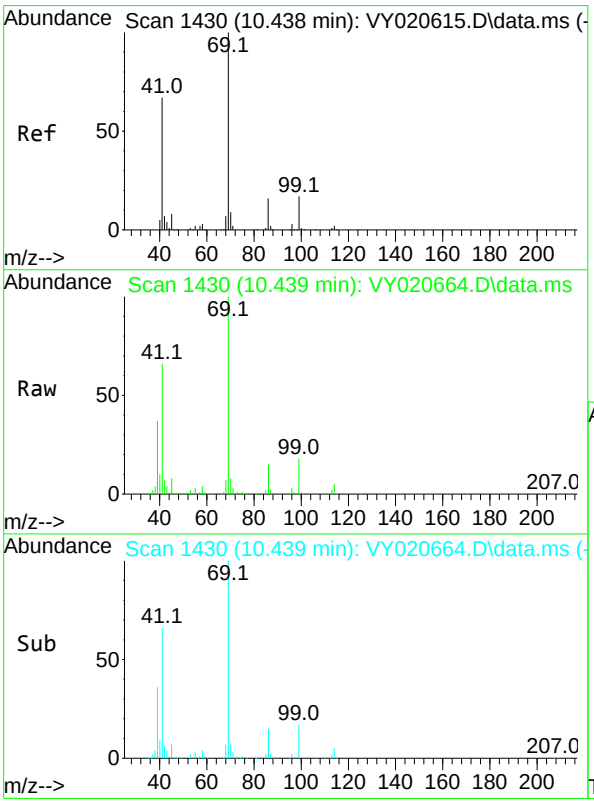

#55
1,1,2-Trichloroethane
Concen: 54.290 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 97 Resp: 80376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.9 | 70.4 | 105.6 |
| 85 | 53.3 | 47.2 | 70.8 |
| 99 | 60.5 | 50.0 | 75.0 |

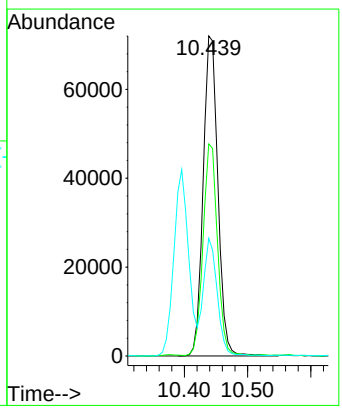


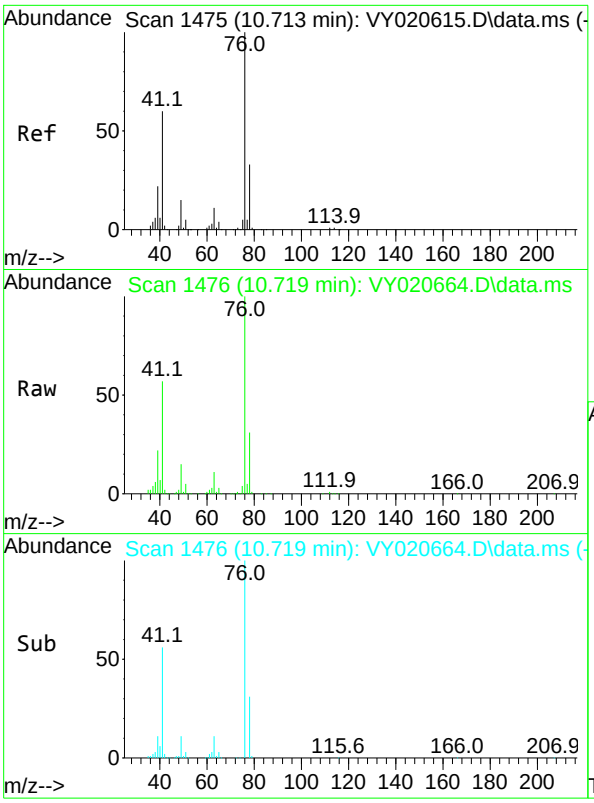




#56
Ethyl methacrylate
Concen: 54.394 ug/l
RT: 10.439 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 69 Resp: 116828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 64.9 | 54.0 | 81.0 |
| 39 | 34.0 | 27.9 | 41.9 |



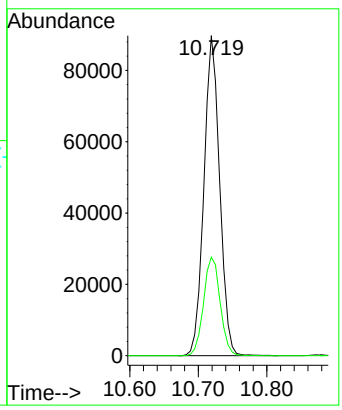


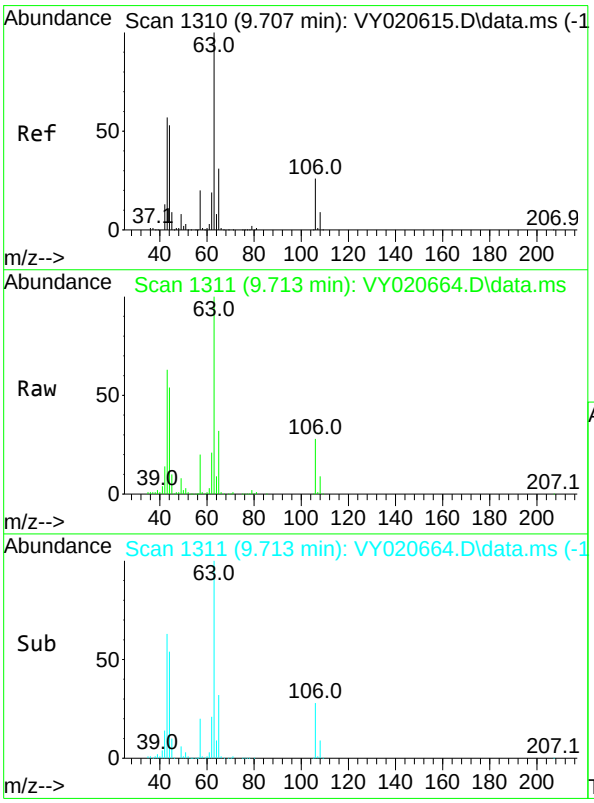

#57
1,3-Dichloropropane
Concen: 54.257 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 143193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 25.8 | 38.8 |

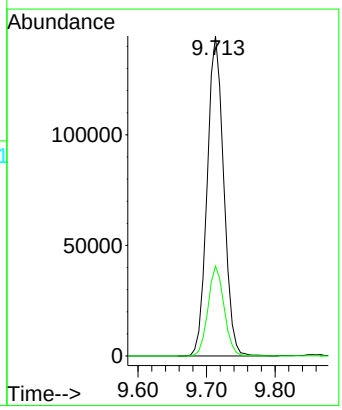


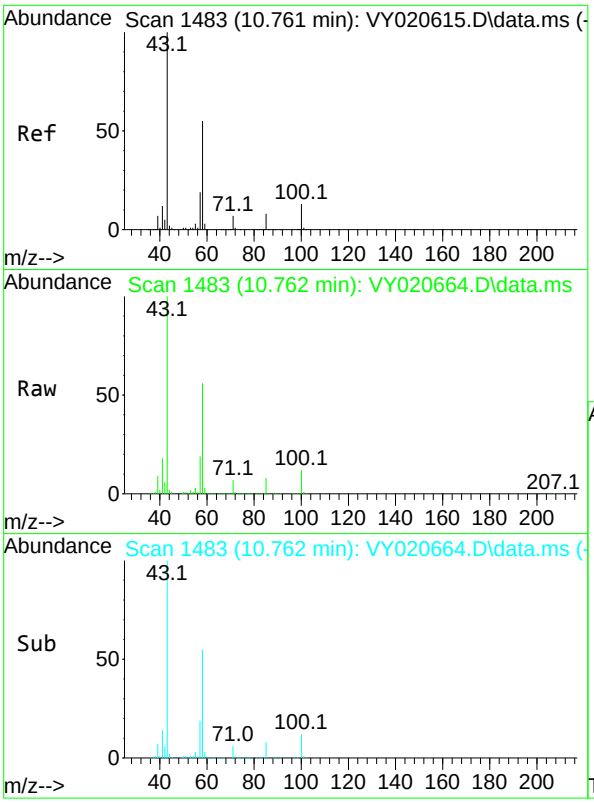




#58
2-Chloroethyl Vinyl ether
Concen: 268.265 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 63 Resp: 242438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.3 | 21.5 | 32.3 |



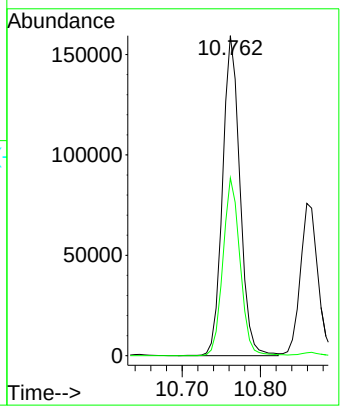


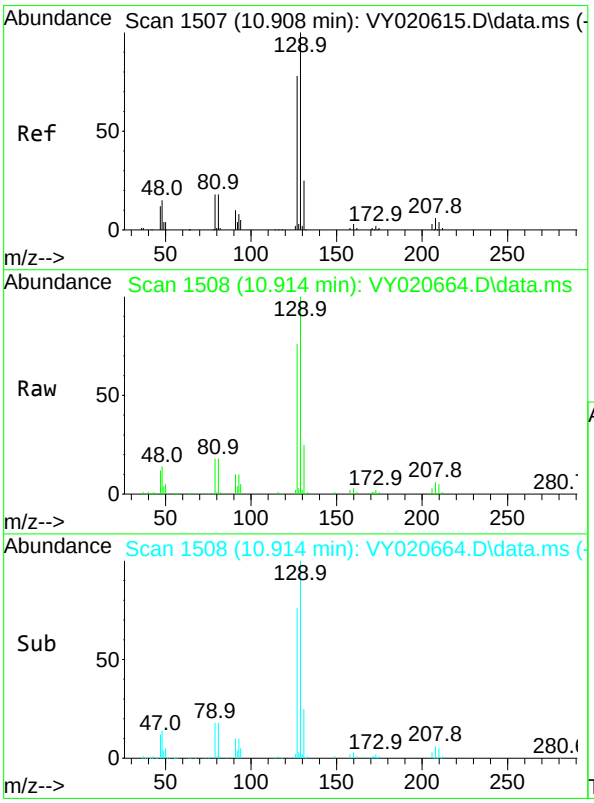

#59
2-Hexanone
Concen: 263.689 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 246134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.7 | 27.2 | 81.6 |

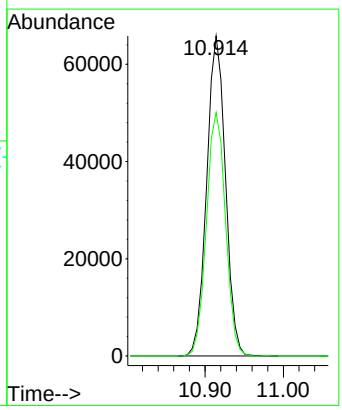


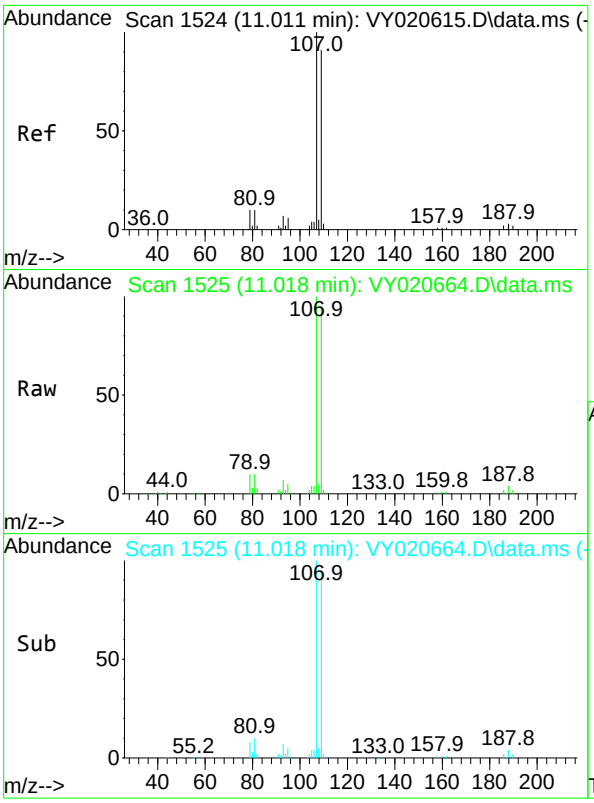




#60
Dibromochloromethane
Concen: 55.226 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:129 Resp: 109346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.1 | 114.3 |



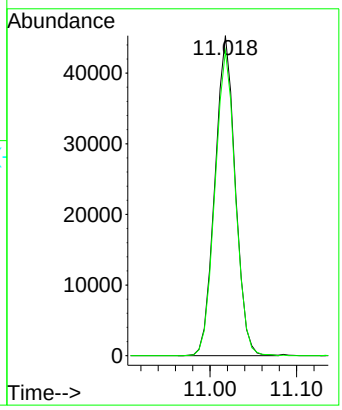


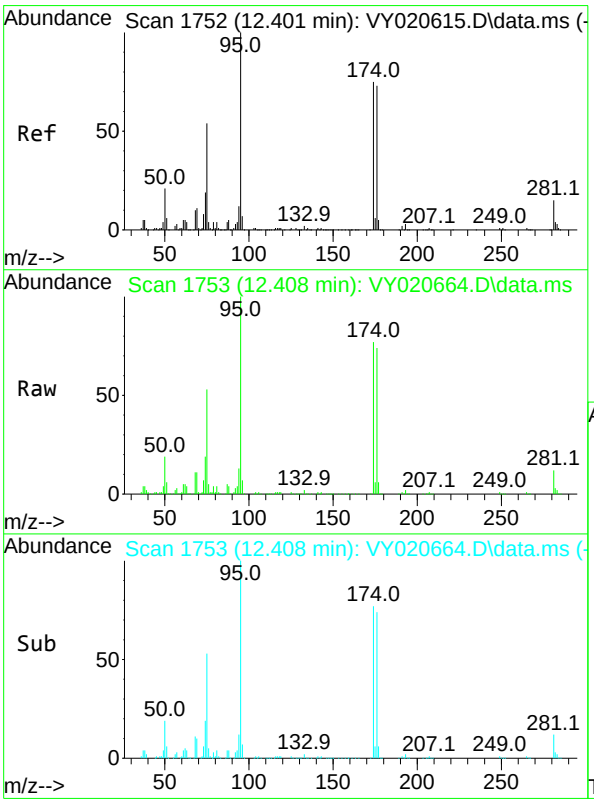

#61
1,2-Dibromoethane
Concen: 53.496 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:107 Resp: 73670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.0 | 75.4 | 113.2 |

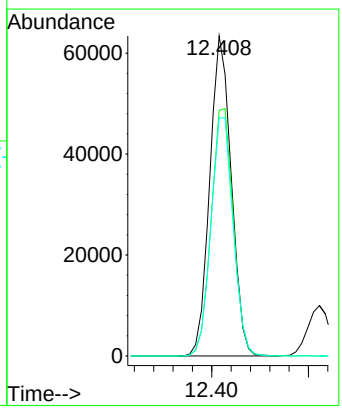


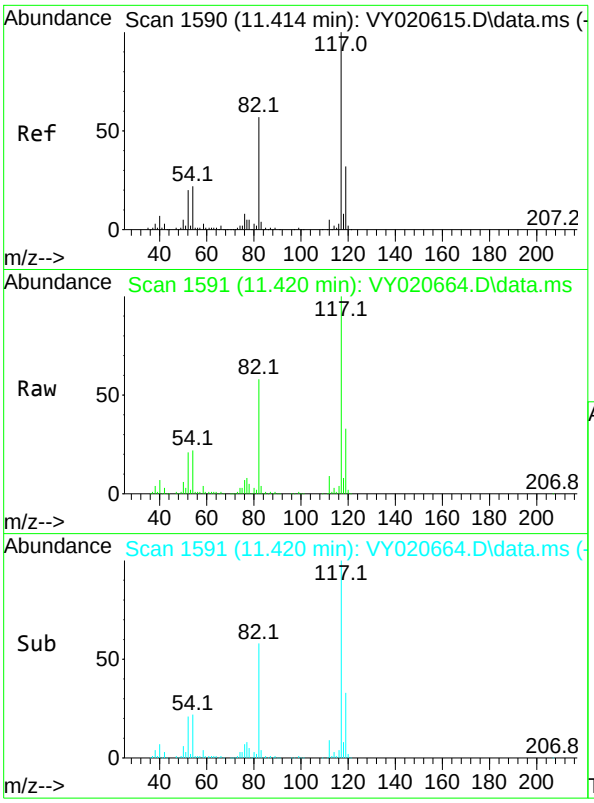




#62
4-Bromofluorobenzene
Concen: 42.036 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 95 Resp: 97623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 79.5 | 0.0 | 161.8 |
| 176 | 77.0 | 0.0 | 156.6 |



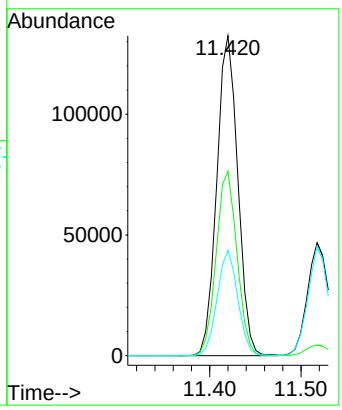


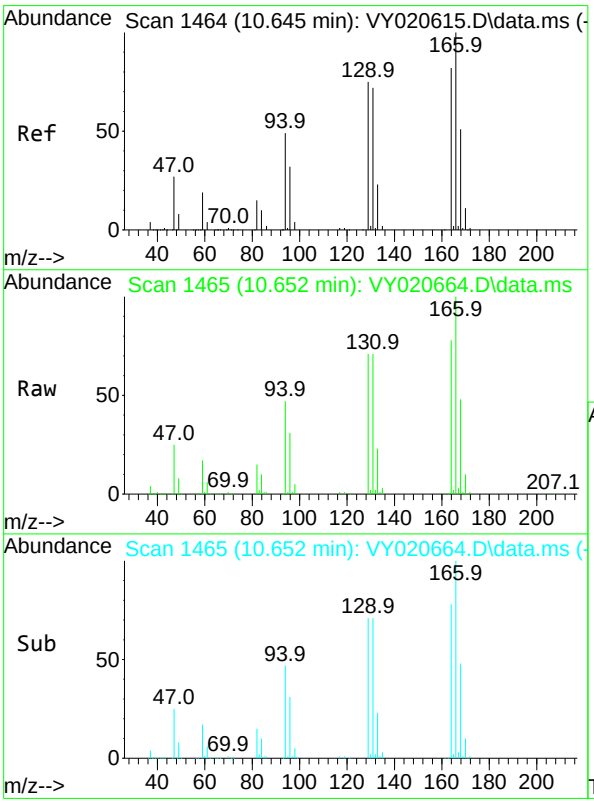

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:117 Resp: 212145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.6 | 45.8 | 68.6 |
| 119 | 32.9 | 25.3 | 37.9 |

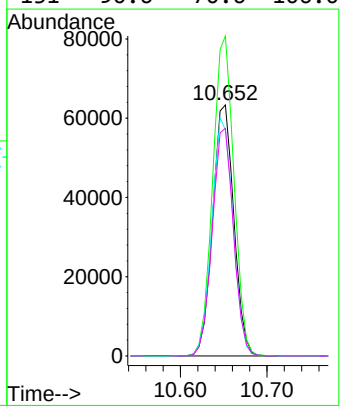


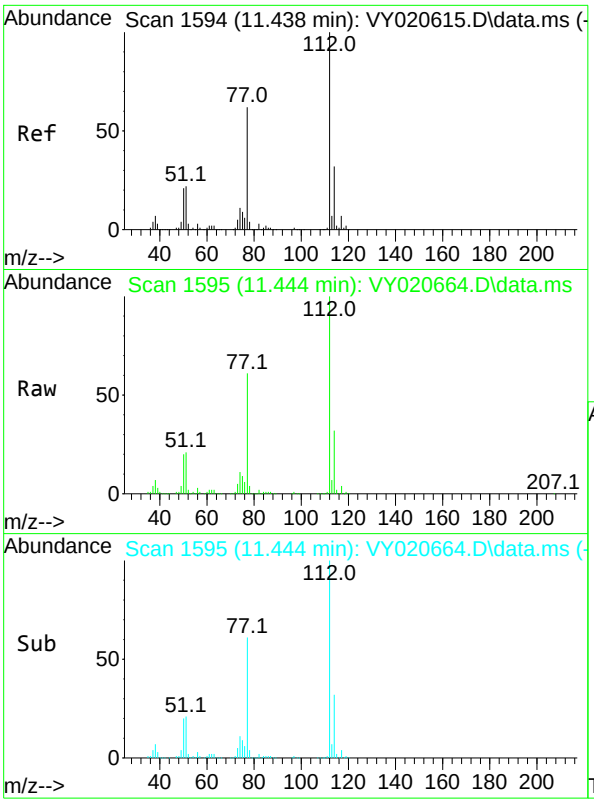




#64
Tetrachloroethene
Concen: 53.958 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:164 Resp: 107671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.4 | 97.9 | 146.9 |
| 129 | 90.1 | 73.4 | 110.0 |
| 131 | 90.6 | 70.6 | 106.0 |



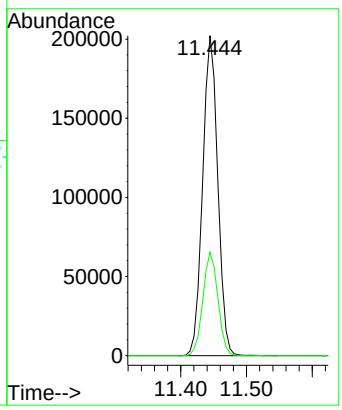


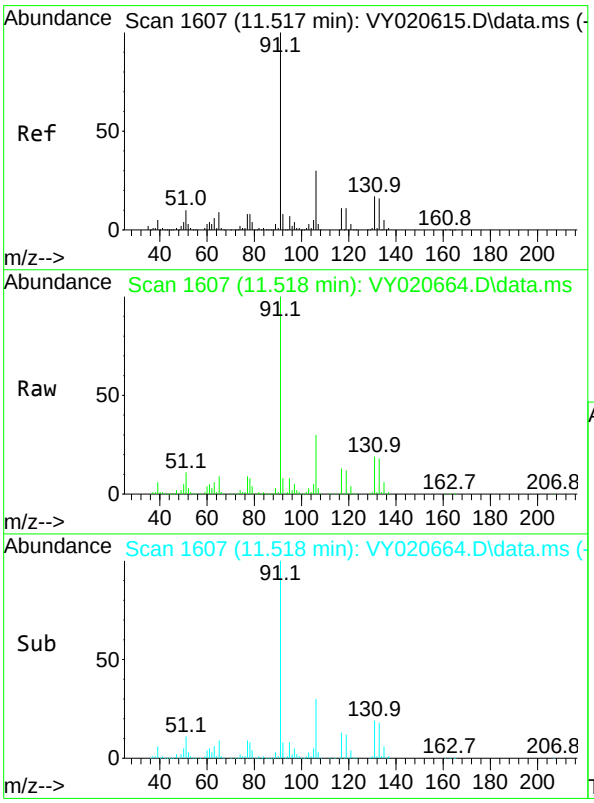

#65
Chlorobenzene
Concen: 54.474 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:112 Resp: 323124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.3 | 26.0 | 39.0 |

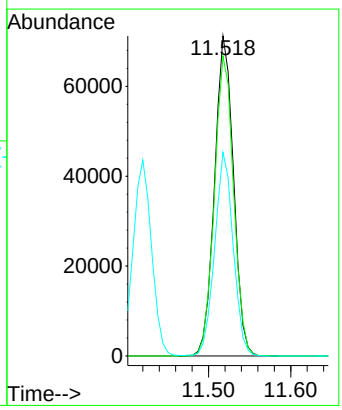


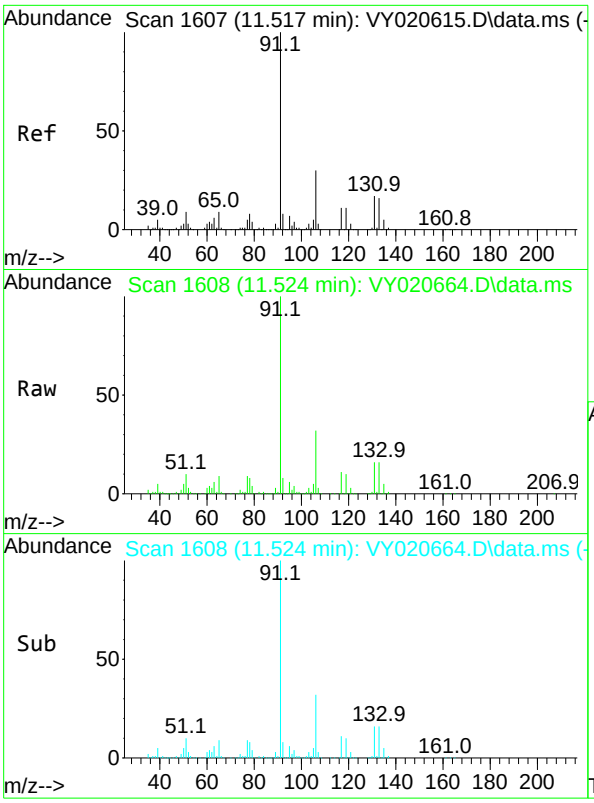




#66
1,1,1,2-Tetrachloroethane
Concen: 56.252 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:131 Resp: 114100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 46.8 | 140.3 |
| 119 | 62.2 | 31.8 | 95.3 |



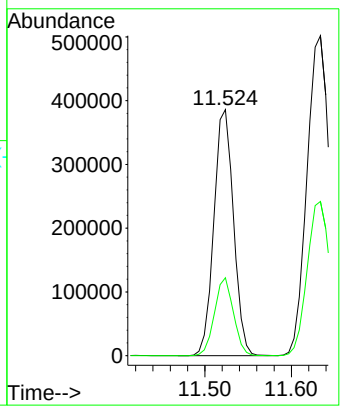


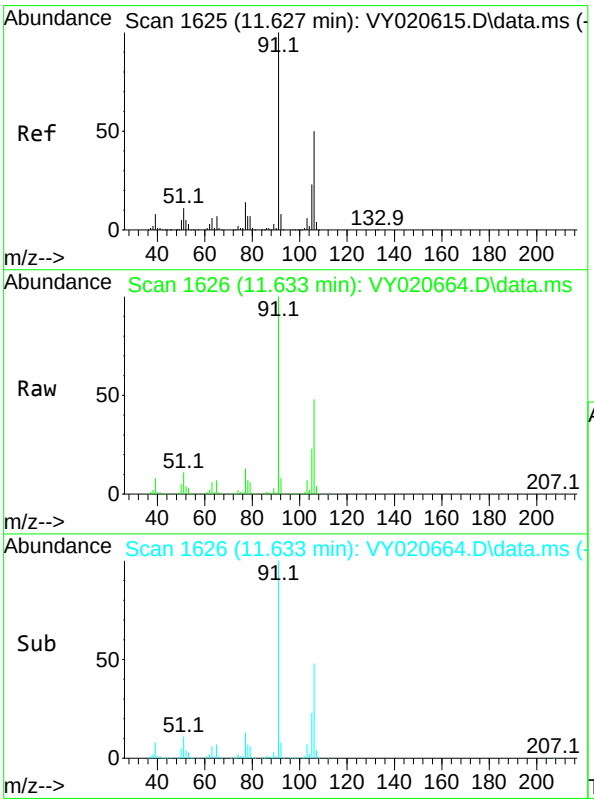

#67
Ethyl Benzene
Concen: 55.519 ug/l
RT: 11.524 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 607565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.6 | 23.9 | 35.9 |

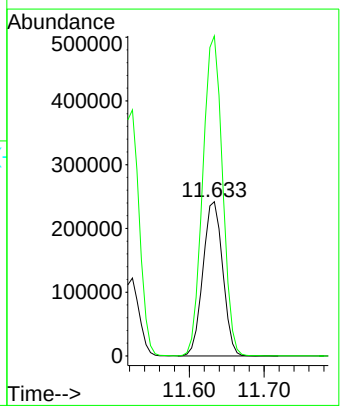


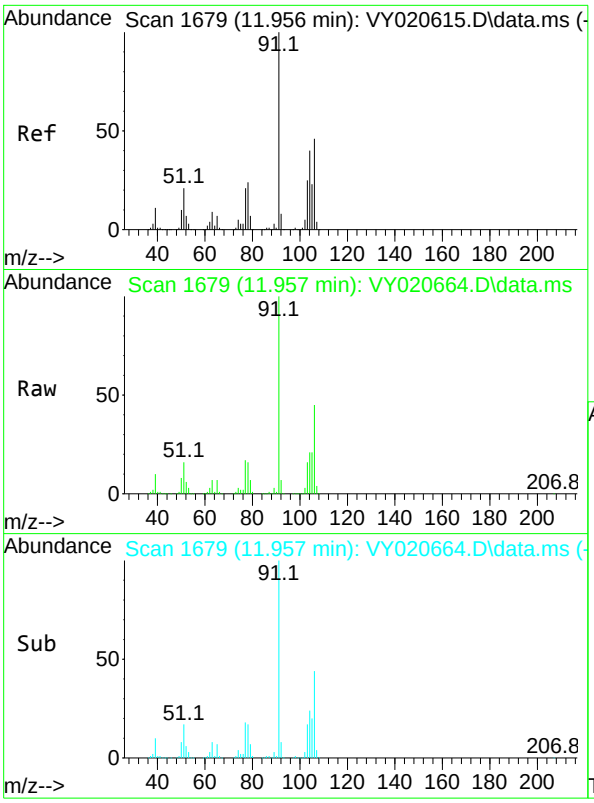




#68
m/p-Xylenes
Concen: 109.344 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:106 Resp: 444911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.2 | 165.0 | 247.4 |



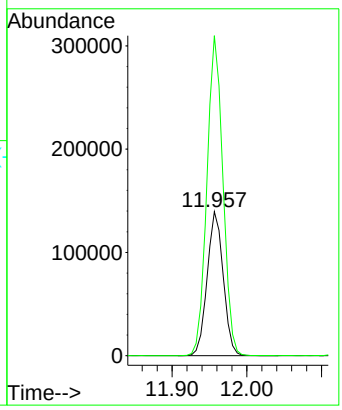


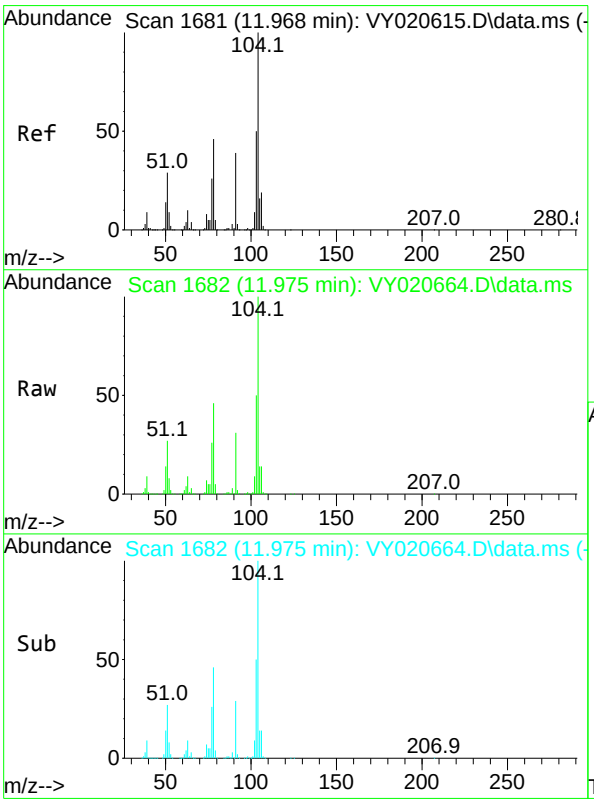

#69
o-Xylene
Concen: 54.792 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:106 Resp: 208015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 221.2 | 108.4 | 325.2 |

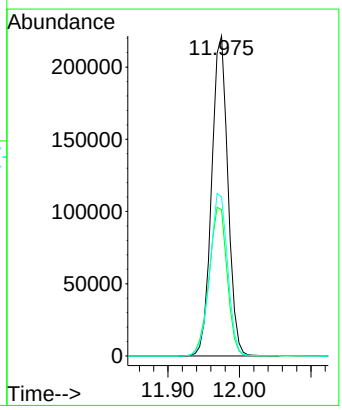


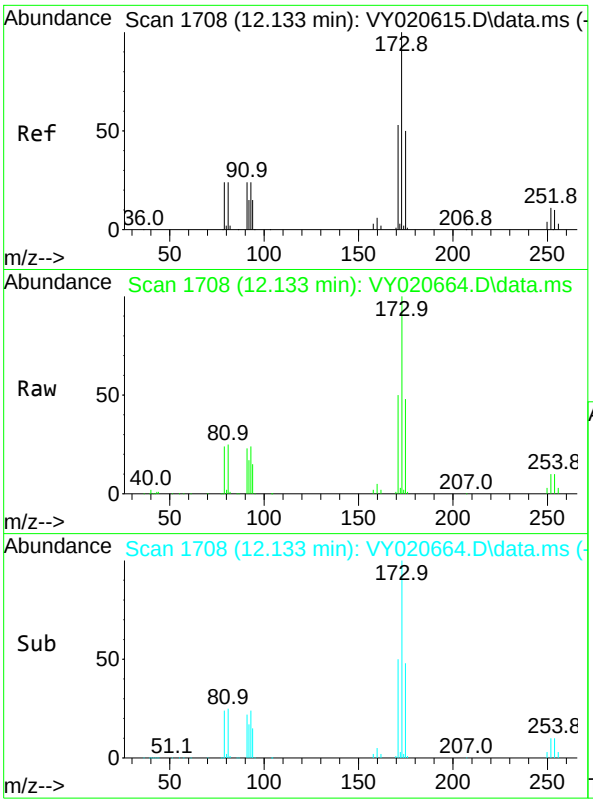




#70
Styrene
Concen: 55.127 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:104 Resp: 349665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.8 | 41.6 | 62.4 |
| 103 | 55.6 | 43.7 | 65.5 |



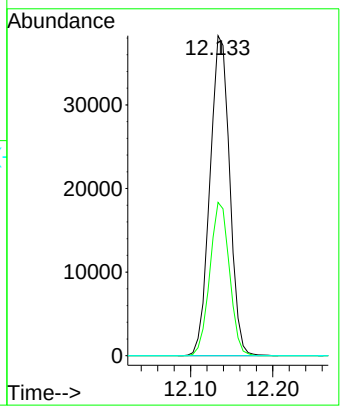


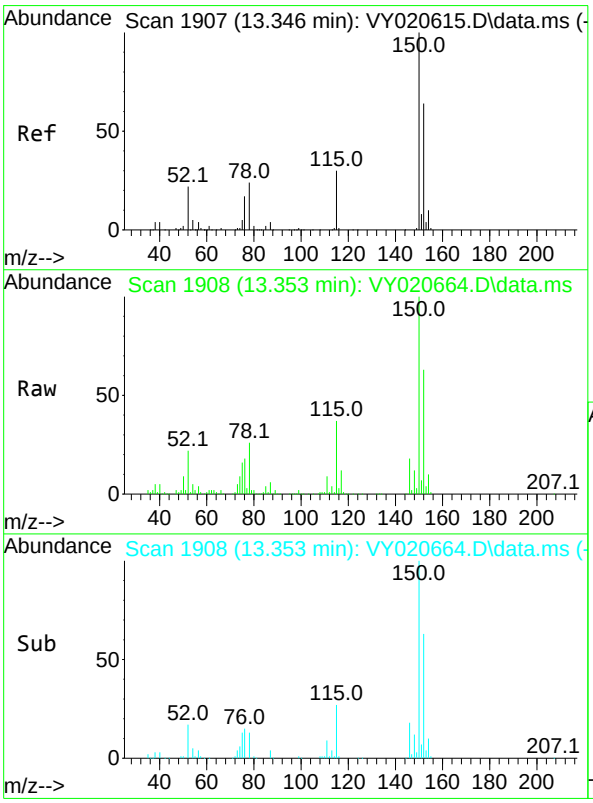

#71
Bromoform
Concen: 55.908 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:173 Resp: 63758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.6 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |

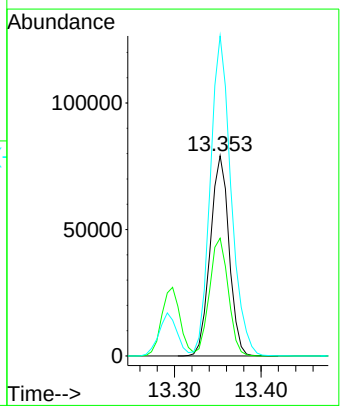


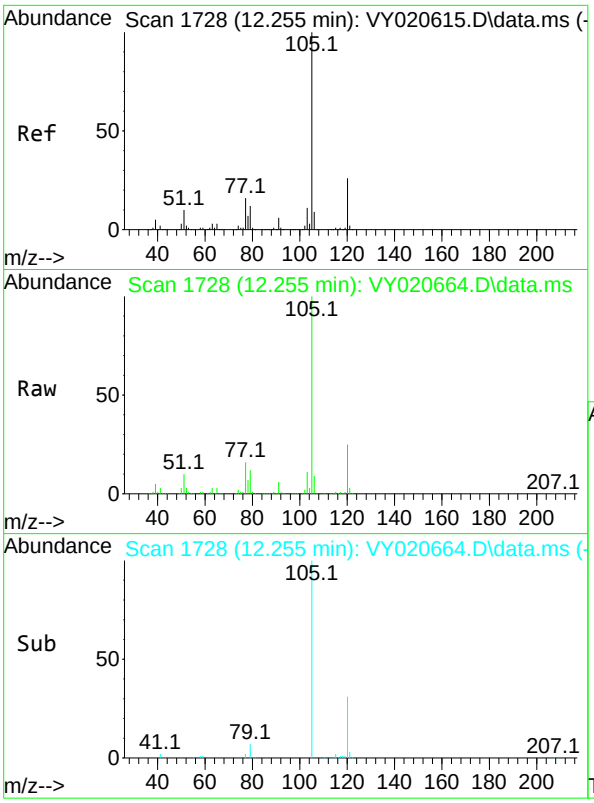




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:152 Resp: 119359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.9 | 30.2 | 90.6 |
| 150 | 176.8 | 0.0 | 355.4 |



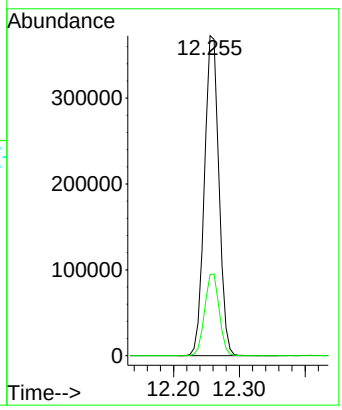


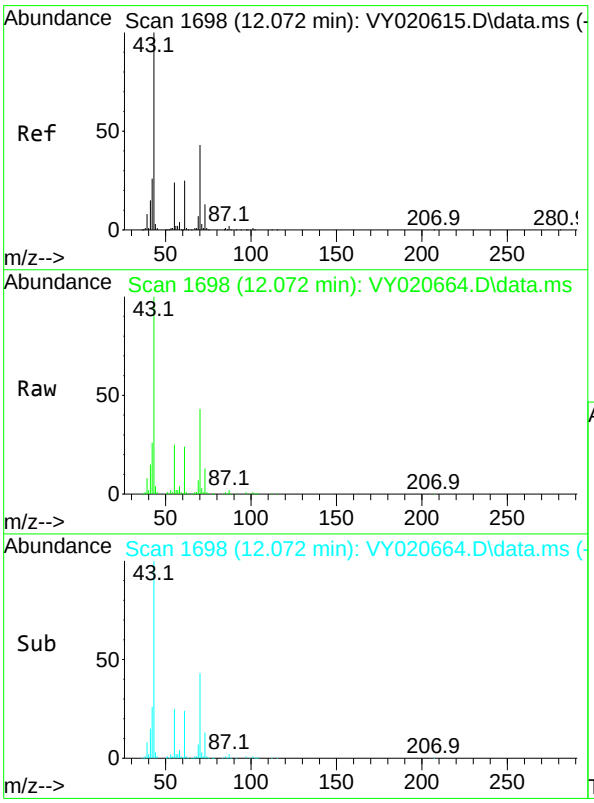

#73
Isopropylbenzene
Concen: 54.823 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 571028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.6 | 13.1 | 39.1 |

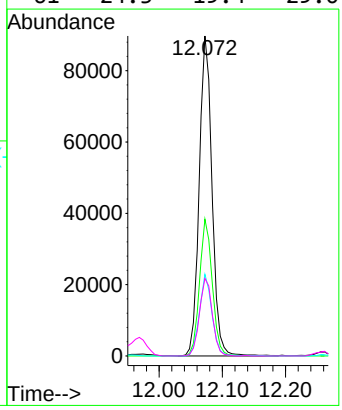


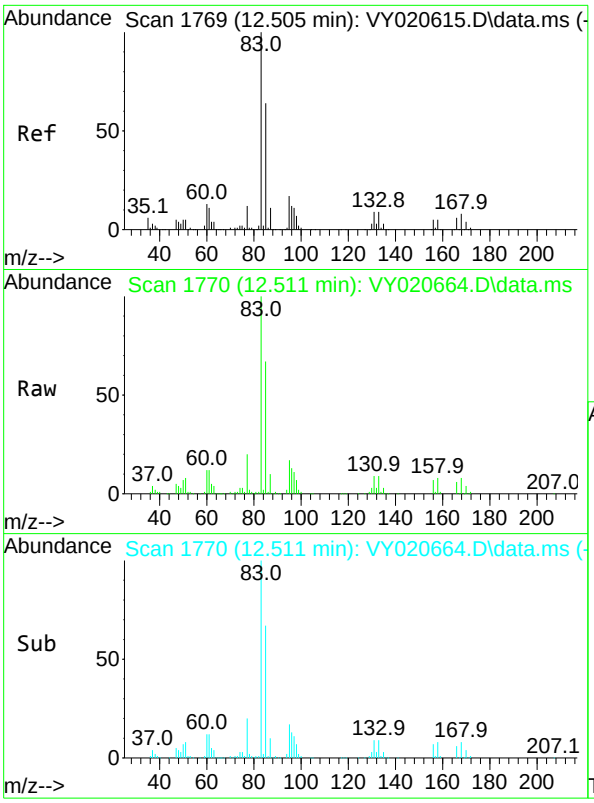




#74
N-amyl acetate
Concen: 52.048 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 43 Resp: 126874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.4 | 34.2 | 51.2 |
| 55 | 24.9 | 19.6 | 29.4 |
| 61 | 24.3 | 19.4 | 29.0 |



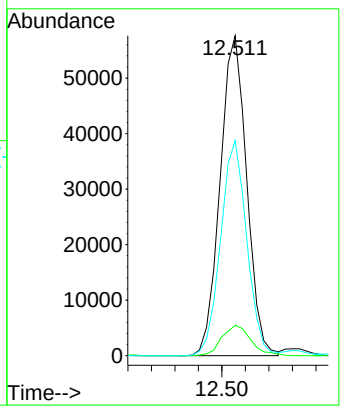


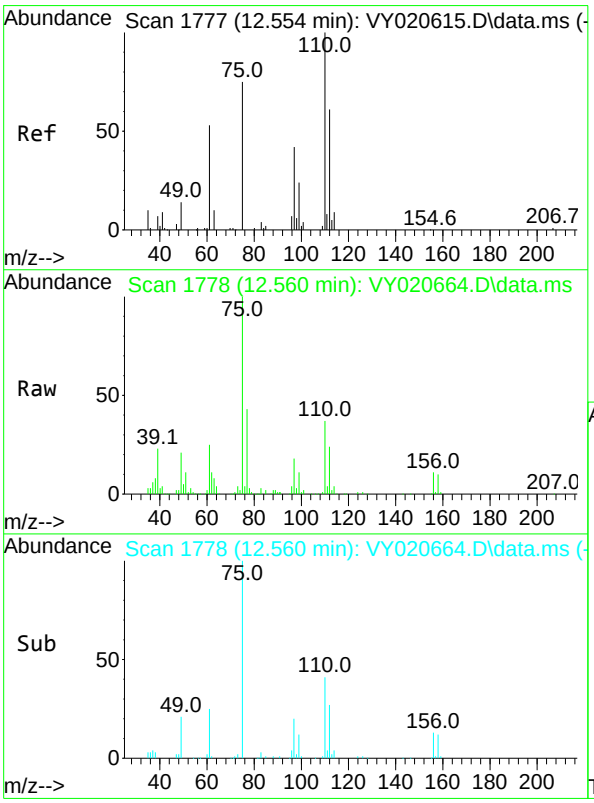

#75
1,1,2,2-Tetrachloroethane
Concen: 53.553 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 90544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.4 | 5.2 | 15.6 |
| 85 | 66.2 | 32.5 | 97.4 |

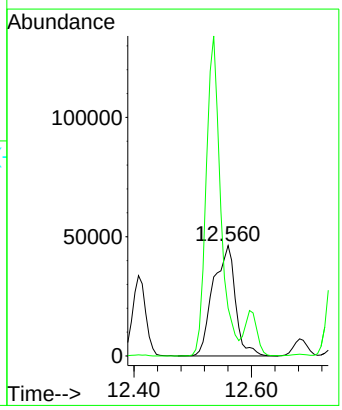


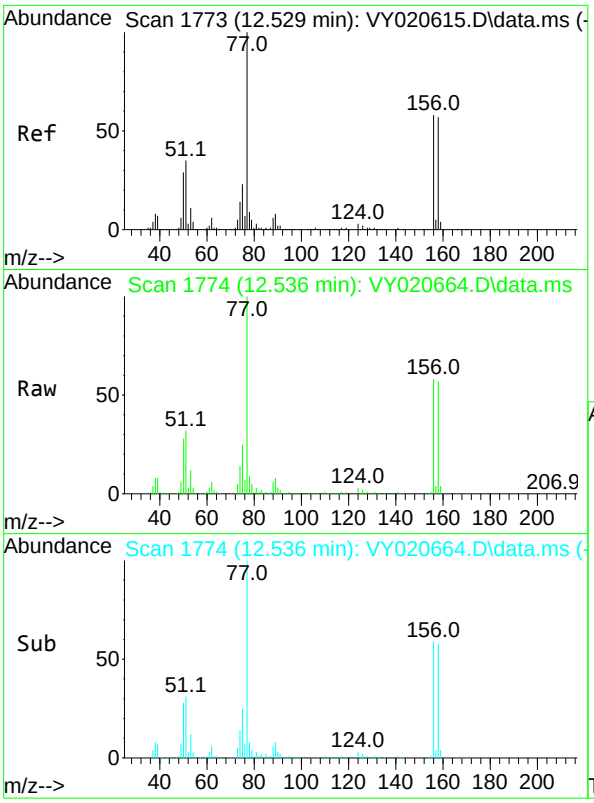




#76
1,2,3-Trichloropropane
Concen: 98.083 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 75 Resp: 121614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



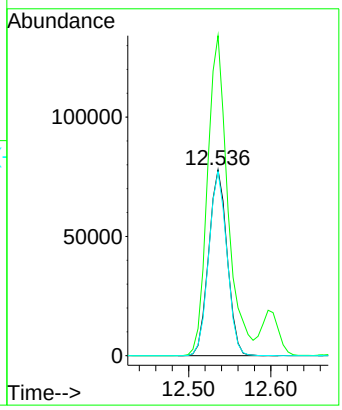


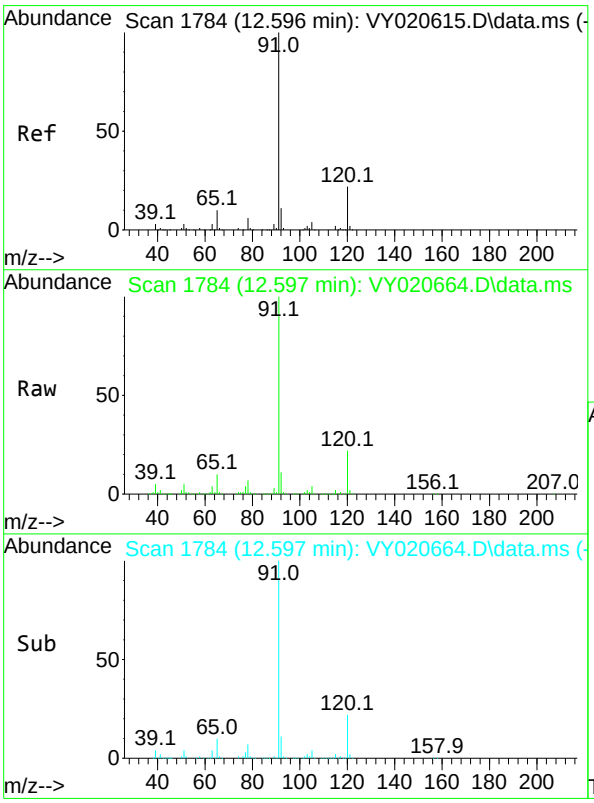

#77
Bromobenzene
Concen: 53.559 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:156 Resp: 121520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 189.5 | 94.2 | 282.4 |
| 158 | 97.6 | 48.9 | 146.6 |

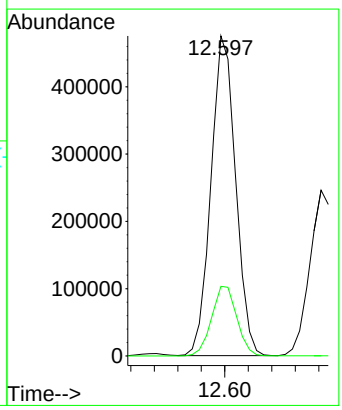


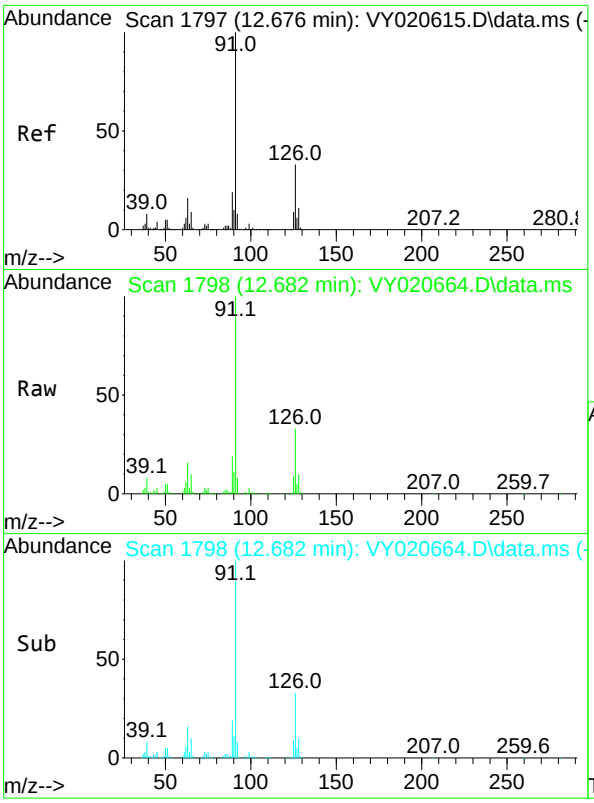




#78
n-propylbenzene
Concen: 55.107 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 91 Resp: 691545

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.3 | 11.1 | 33.1 |



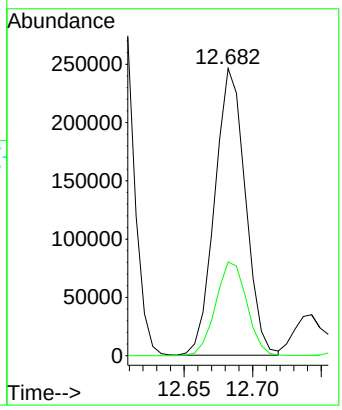


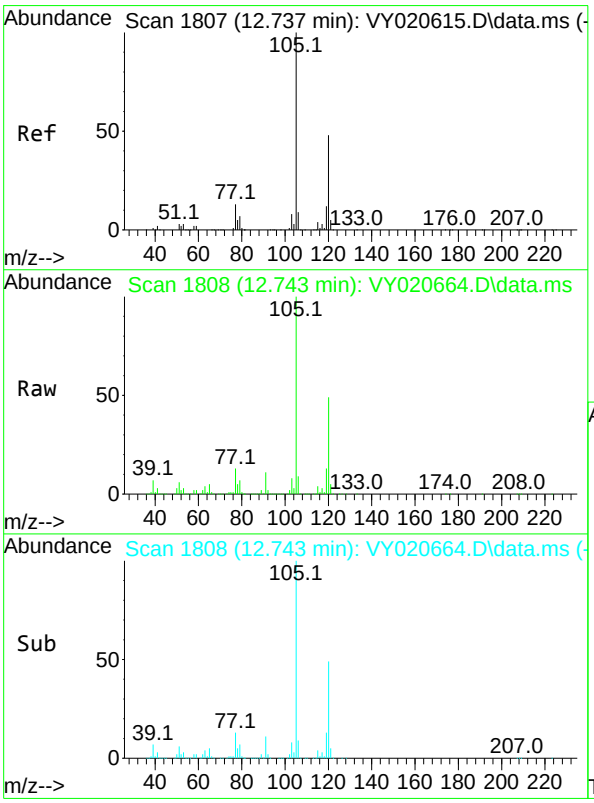

#79
2-Chlorotoluene
Concen: 54.188 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 382585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.2 | 16.6 | 49.7 |

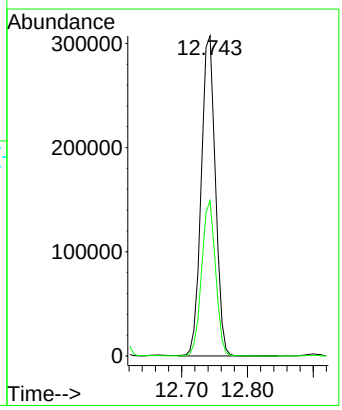


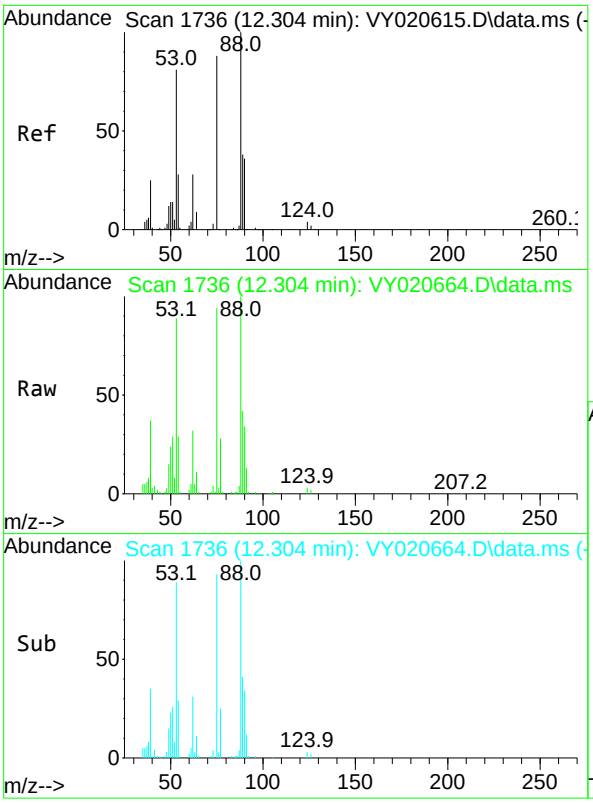




#80
1,3,5-Trimethylbenzene
Concen: 54.473 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:105 Resp: 460381

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |



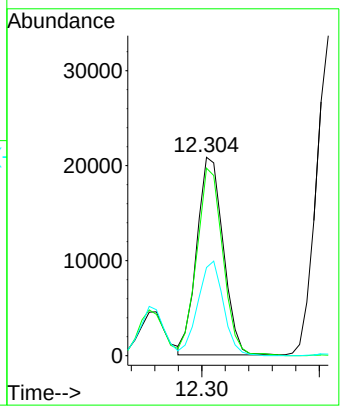


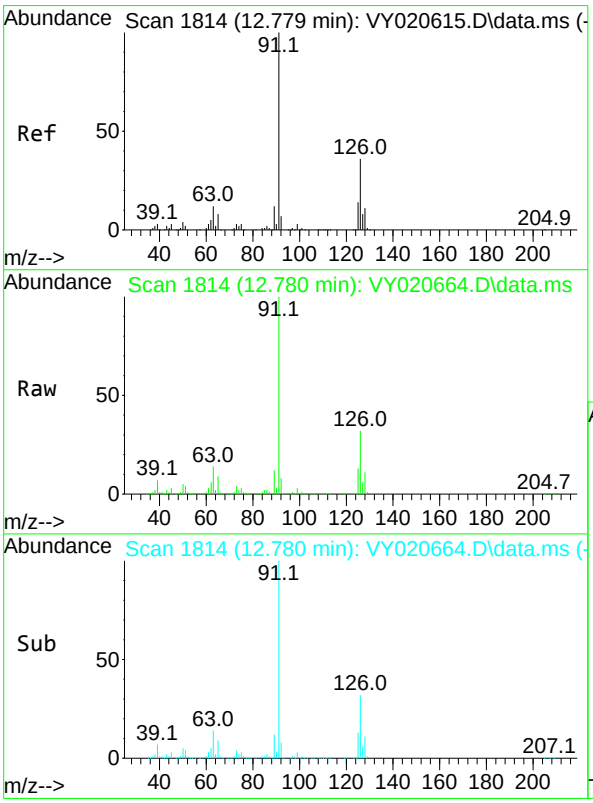

#81
trans-1,4-Dichloro-2-butene
Concen: 54.979 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 32476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.7 | 75.4 | 113.2 |
| 89 | 46.5 | 37.0 | 55.4 |

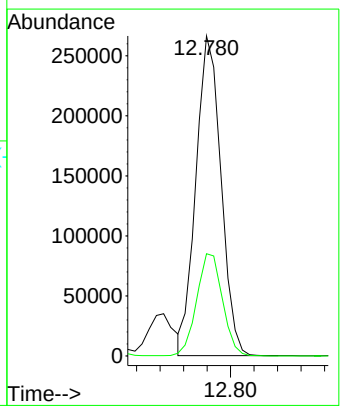


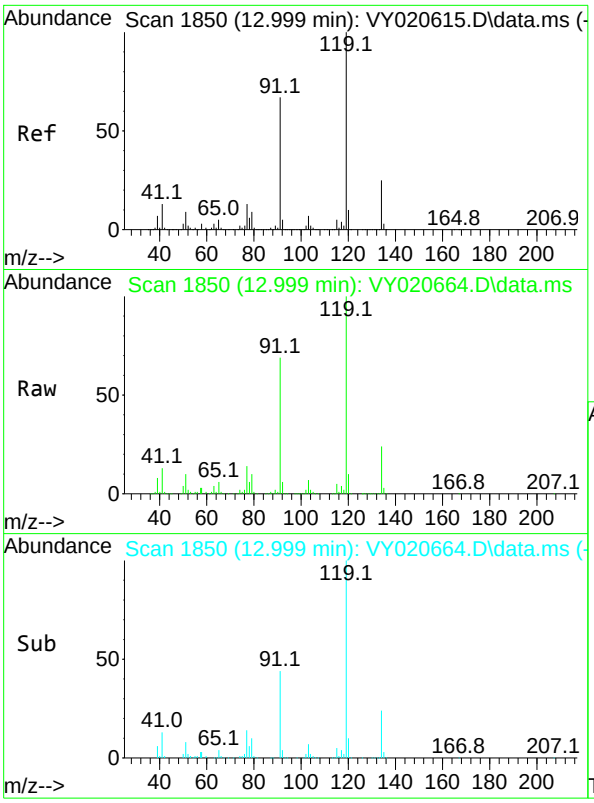




#82
4-Chlorotoluene
Concen: 53.864 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 91 Resp: 394546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.1 | 16.6 | 49.7 |



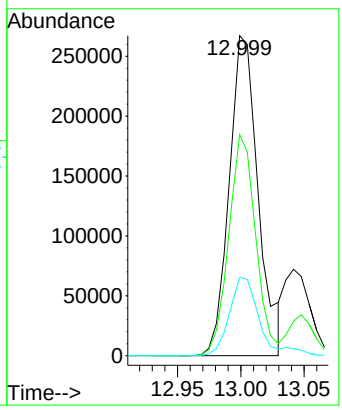


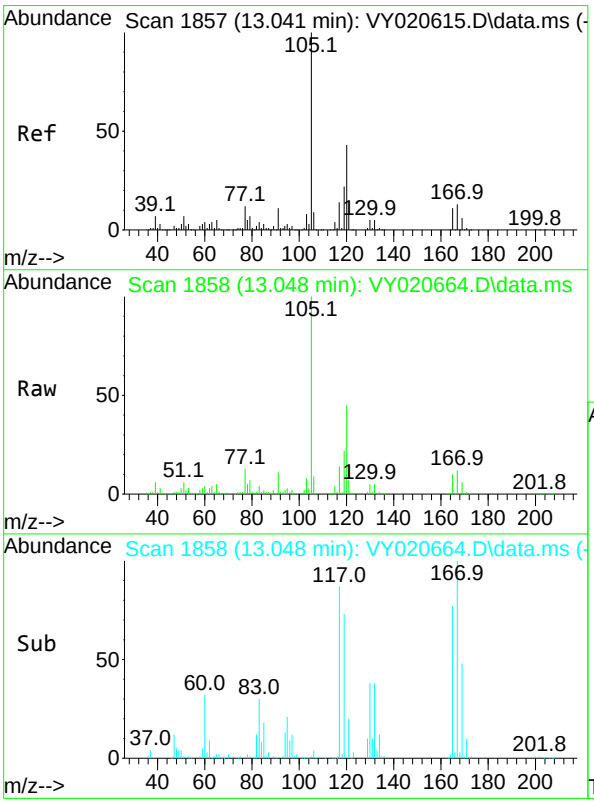

#83
tert-Butylbenzene
Concen: 55.644 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:119 Resp: 425908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.4 | 32.9 | 98.6 |
| 134 | 25.5 | 13.1 | 39.1 |

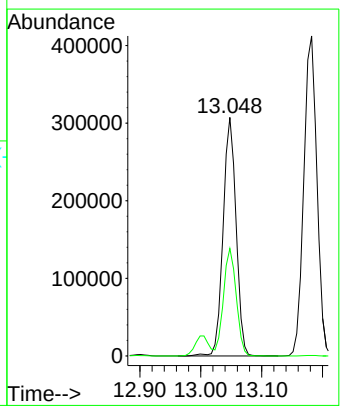


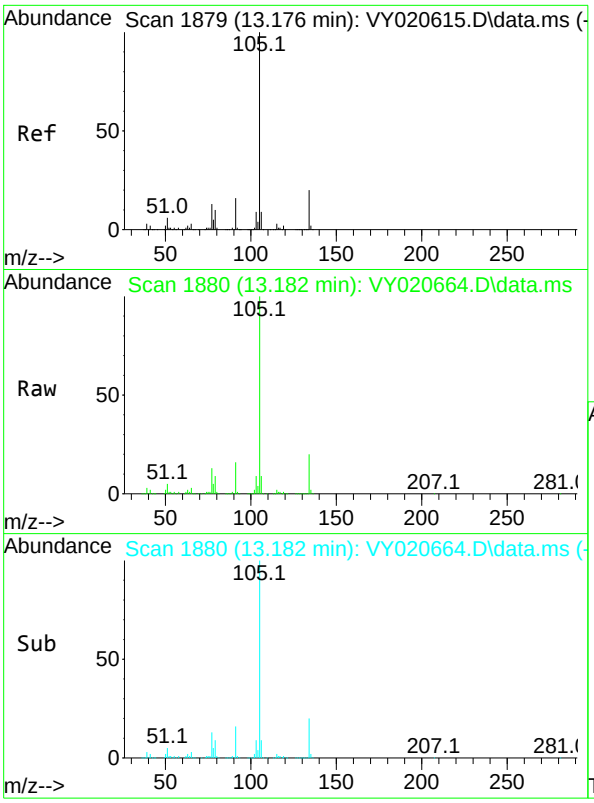




#84
1,2,4-Trimethylbenzene
Concen: 54.789 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:105 Resp: 454208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.2 | 21.8 | 65.4 |



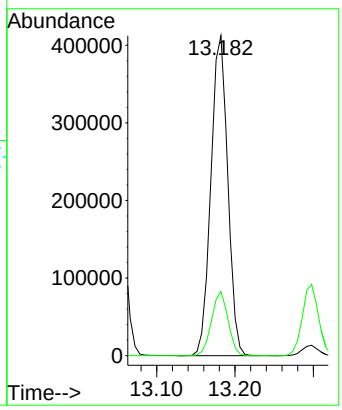


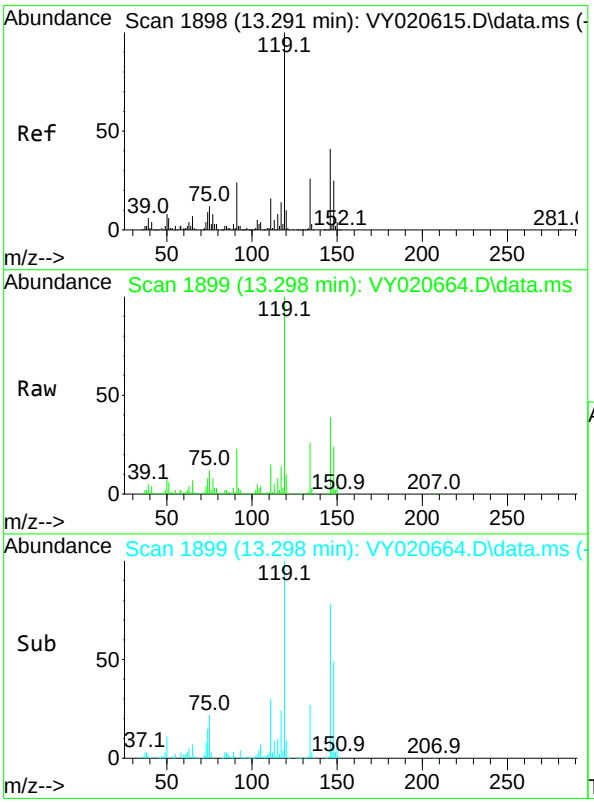

#85
sec-Butylbenzene
Concen: 55.289 ug/l
RT: 13.182 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 615306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.6 | 10.0 | 30.0 |

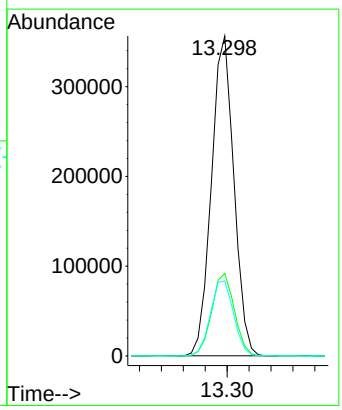


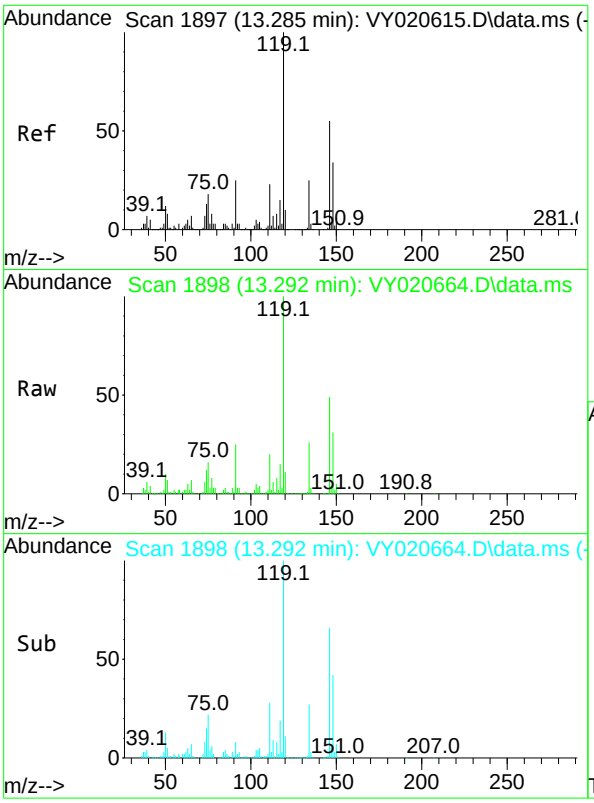




#86
p-Isopropyltoluene
Concen: 55.299 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:119 Resp: 507405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.1 | 12.9 | 38.6 |
| 91 | 24.5 | 12.1 | 36.3 |



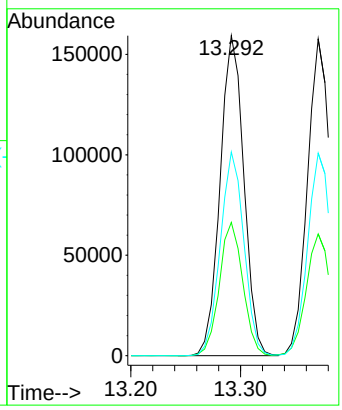


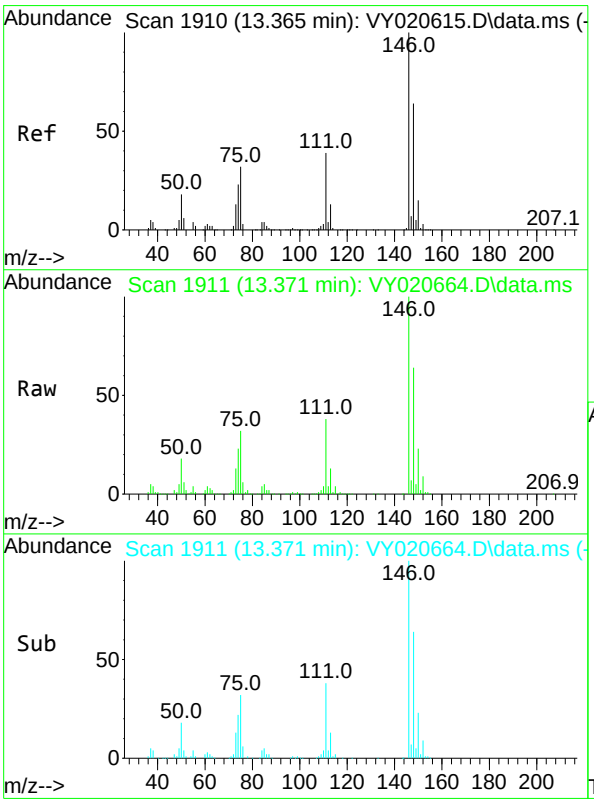

#87
1,3-Dichlorobenzene
Concen: 53.623 ug/l
RT: 13.292 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 240167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.1 | 20.6 | 61.8 |
| 148 | 63.3 | 31.4 | 94.0 |

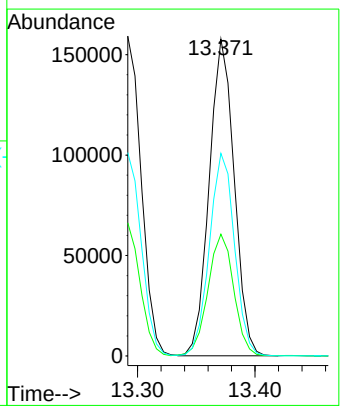


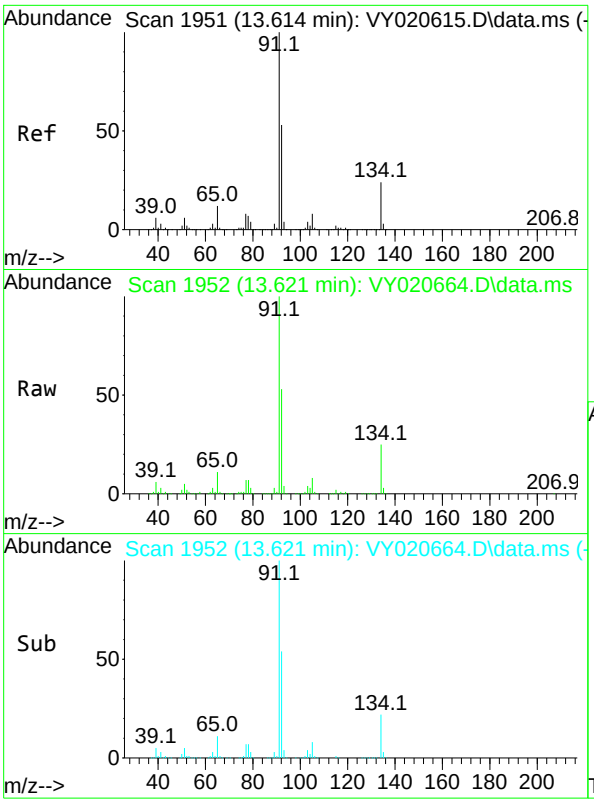




#88
1,4-Dichlorobenzene
Concen: 52.643 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:146 Resp: 233518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 19.6 | 58.7 |
| 148 | 64.3 | 31.9 | 95.5 |



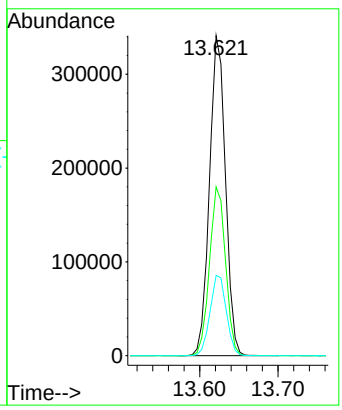


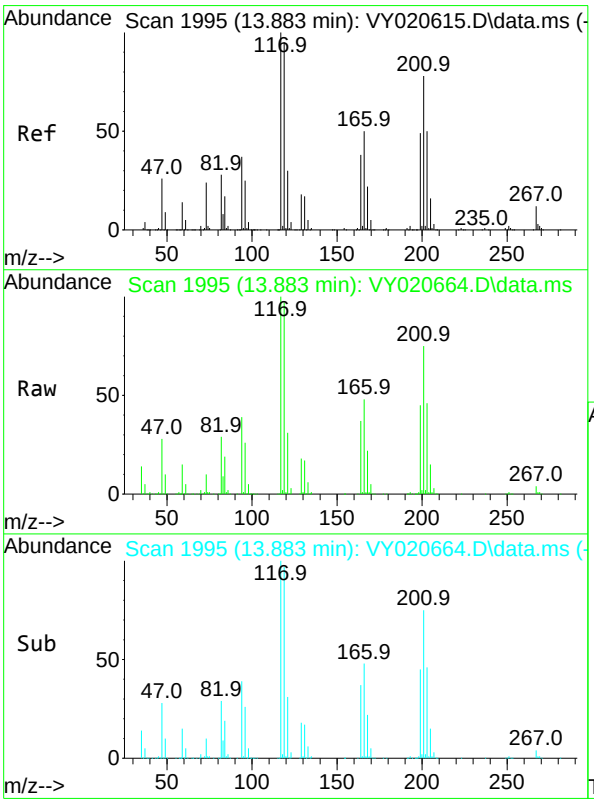

#89
n-Butylbenzene
Concen: 55.471 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 482377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.1 | 26.8 | 80.4 |
| 134 | 25.6 | 12.5 | 37.5 |

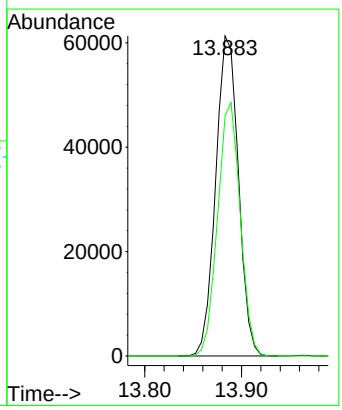


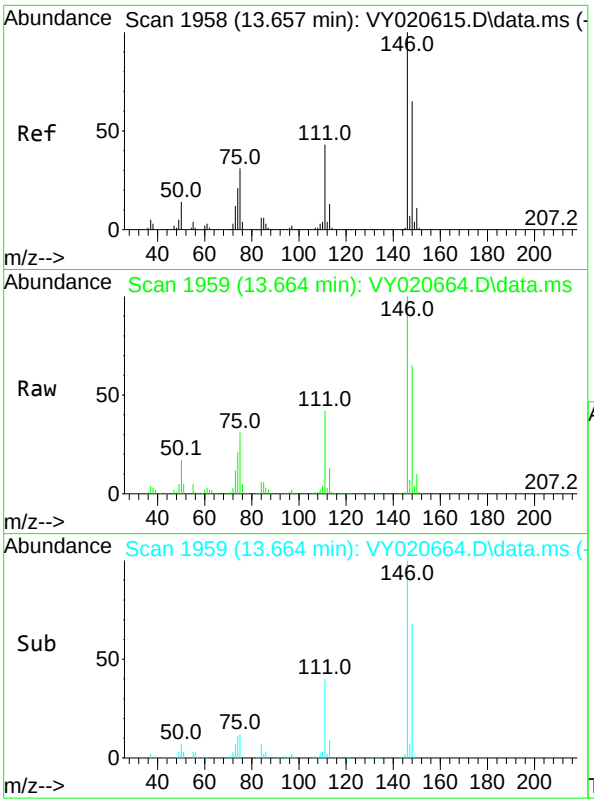




#90
Hexachloroethane
Concen: 54.904 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:117 Resp: 99835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 78.8 | 39.1 | 117.3 |



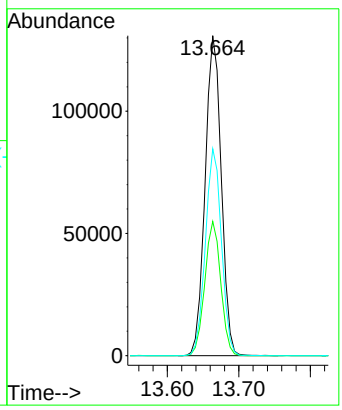


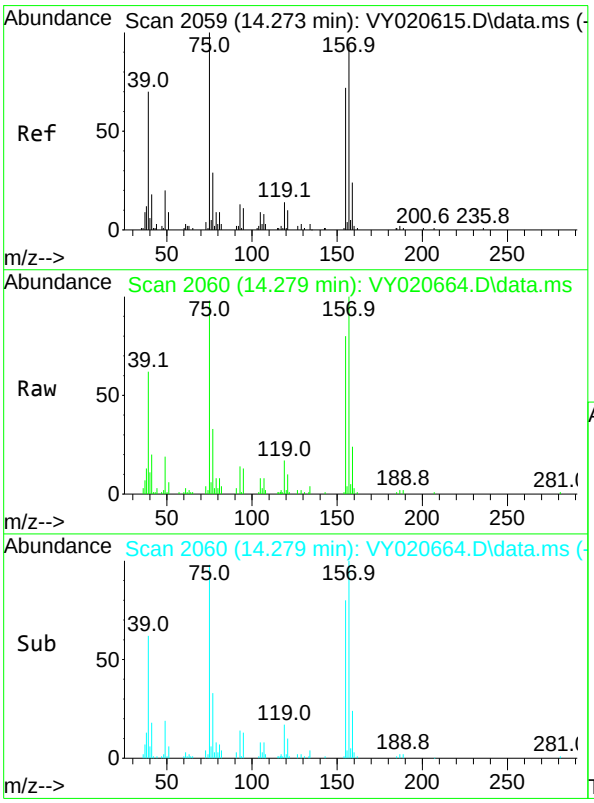

#91
1,2-Dichlorobenzene
Concen: 52.844 ug/l
RT: 13.664 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 205065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.5 | 21.3 | 63.7 |
| 148 | 64.4 | 32.0 | 96.0 |

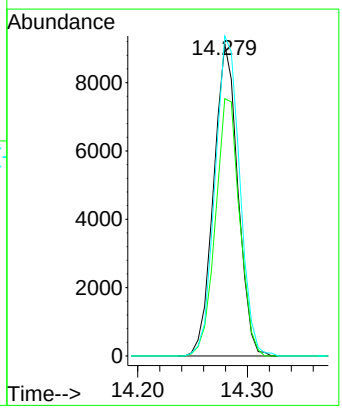


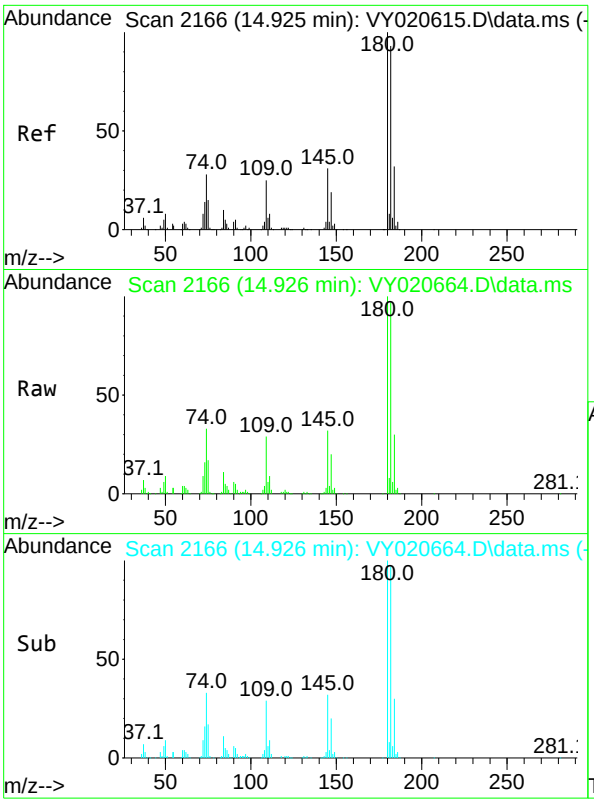




#92
1,2-Dibromo-3-Chloropropane
Concen: 50.926 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion: 75 Resp: 13979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.4 | 41.1 | 123.3 |
| 157 | 104.5 | 52.9 | 158.8 |



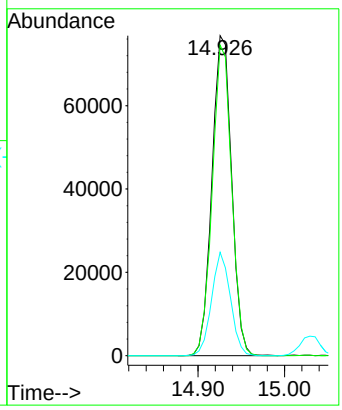


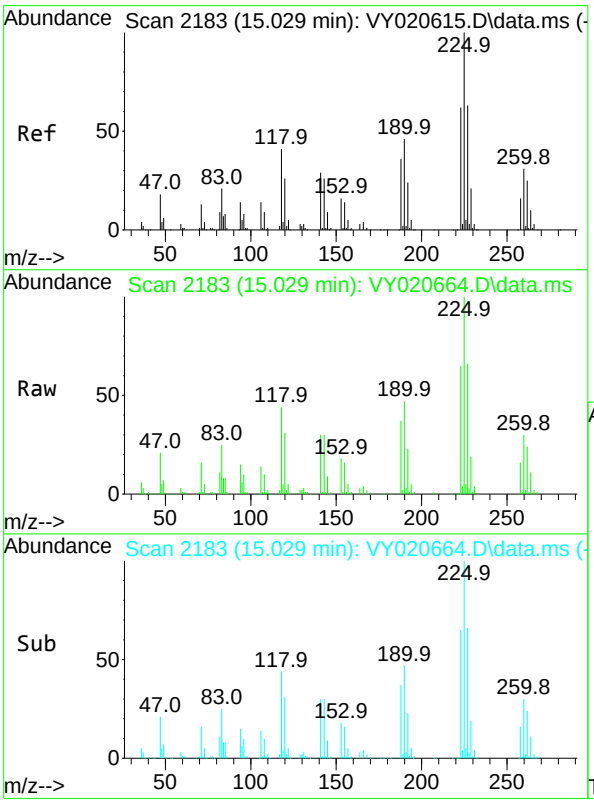

#93
1,2,4-Trichlorobenzene
Concen: 51.603 ug/l
RT: 14.926 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:180 Resp: 121126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.9 | 143.6 |
| 145 | 31.0 | 15.6 | 46.7 |

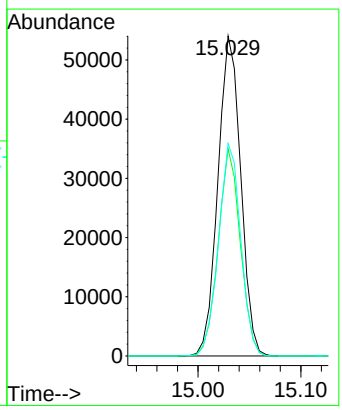


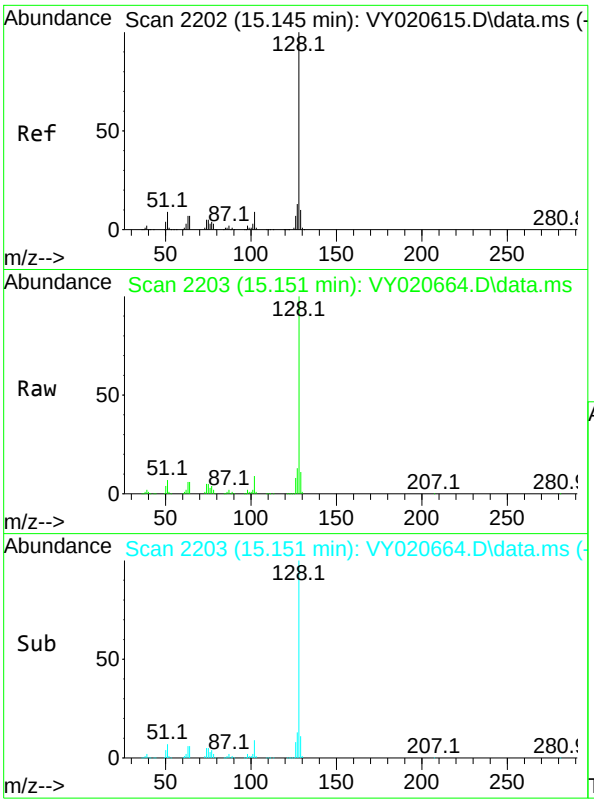




#94
Hexachlorobutadiene
Concen: 54.285 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:225 Resp: 83298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 31.8 | 95.3 |
| 227 | 64.6 | 32.2 | 96.6 |



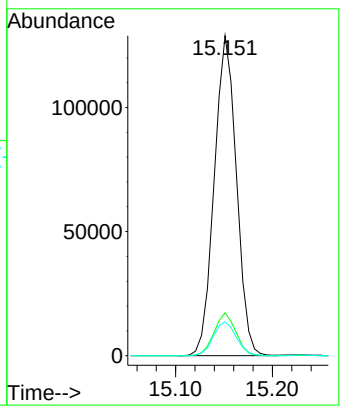


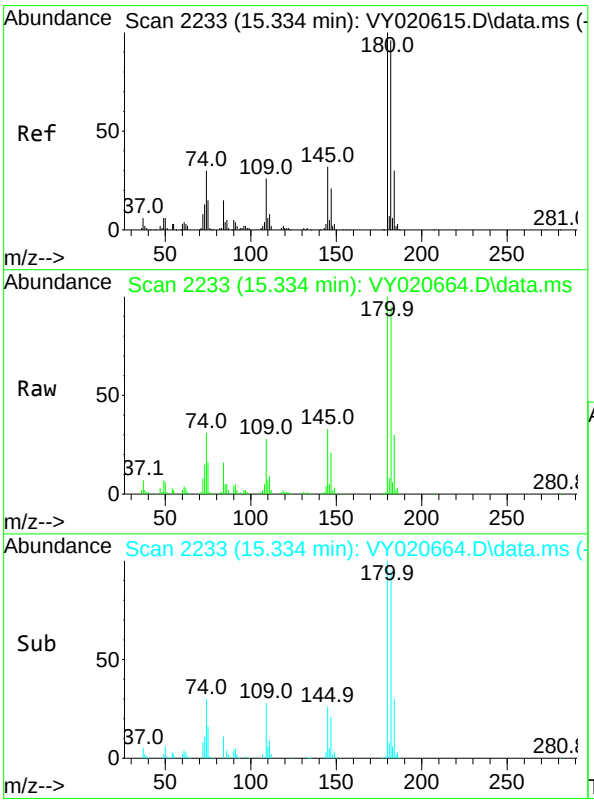

#95
Naphthalene
Concen: 50.926 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050

Tgt Ion:128 Resp: 204937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.7 | 16.1 |
| 129 | 10.9 | 8.5 | 12.7 |

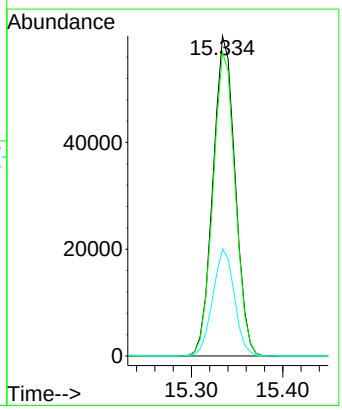



#96
1,2,3-Trichlorobenzene
Concen: 50.866 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020664.D
Acq: 20 Dec 2024 09:09

Tgt Ion:180 Resp: 100879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.1 | 47.3 | 141.9 |
| 145 | 32.7 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 157442 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.615 | 114 | 237485 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 207752 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 116933 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 74322 | 43.102 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 86.200% | | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 77189 | 46.118 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 92.240% | | | | |
| 50) Toluene-d8 | 10.109 | 98 | 273250 | 46.643 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 93.280% | | | | |
| 62) 4-Bromofluorobenzene | 12.407 | 95 | 101336 | 44.220 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 88.440% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 46496 | 23.644 | ug/l | | 99 |
| 3) Chloromethane | 2.074 | 50 | 24398 | 16.744 | ug/l | | 97 |
| 4) Vinyl Chloride | 2.208 | 62 | 21407 | 15.785 | ug/l | | 97 |
| 5) Bromomethane | 2.598 | 94 | 12985 | 14.895 | ug/l | | 97 |
| 6) Chloroethane | 2.732 | 64 | 11282 | 13.462 | ug/l | | 91 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 47245 | 16.649 | ug/l | | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 13504 | 13.569 | ug/l | | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 32580 | 16.018 | ug/l | | 94 |
| 10) Methyl Iodide | 4.007 | 142 | 38530 | 17.014 | ug/l | | 98 |
| 11) Tert butyl alcohol | 4.854 | 59 | 18773 | 80.656 | ug/l | # | 94 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 31773 | 16.099 | ug/l | | 94 |
| 13) Acrolein | 3.659 | 56 | 5627 | 69.014 | ug/l | | 97 |
| 14) Allyl chloride | 4.385 | 41 | 56459 | 16.326 | ug/l | | 96 |
| 15) Acrylonitrile | 5.061 | 53 | 46605 | 97.887 | ug/l | | 99 |
| 16) Acetone | 3.872 | 43 | 23242 | 63.034 | ug/l | | 99 |
| 17) Carbon Disulfide | 4.110 | 76 | 111849 | 17.411 | ug/l | | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 17854 | 15.218 | ug/l | | 97 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 101223 | 19.872 | ug/l | | 97 |
| 20) Methylene Chloride | 4.616 | 84 | 38027 | 17.737 | ug/l | | 98 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 47558 | 21.482 | ug/l | | 97 |
| 22) Diisopropyl ether | 6.018 | 45 | 147396 | 20.998 | ug/l | | 94 |
| 23) Vinyl Acetate | 5.963 | 43 | 401517 | 100.993 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 5.915 | 63 | 87971 | 21.392 | ug/l | | 99 |
| 25) 2-Butanone | 6.896 | 43 | 58734 | 91.655 | ug/l | | 98 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 82041 | 21.104 | ug/l | | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 53177 | 20.878 | ug/l | | 99 |
| 28) Bromochloromethane | 7.250 | 49 | 23622 | 17.030 | ug/l | | 100 |
| 29) Tetrahydrofuran | 7.268 | 42 | 38523 | 95.228 | ug/l | | 99 |
| 30) Chloroform | 7.427 | 83 | 92559 | 19.148 | ug/l | | 97 |
| 31) Cyclohexane | 7.701 | 56 | 83030 | 21.116 | ug/l | | 98 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 81959 | 21.694 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 67060 | 21.973 | ug/l | # | 91 |
| 37) Ethyl Acetate | 6.988 | 43 | 26953 | 18.775 | ug/l | | 97 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 75634 | 22.399 | ug/l | | 99 |
| 39) Methylcyclohexane | 9.109 | 83 | 87624 | 22.028 | ug/l | | 98 |
| 40) Benzene | 8.079 | 78 | 197331 | 22.058 | ug/l | | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.219 | 41 | 14883 | 19.610 | ug/l | | 93 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 49803 | 20.991 | ug/l | | 100 |
| 43) Isopropyl Acetate | 8.201 | 43 | 54326 | 19.989 | ug/l | | 99 |
| 44) Trichloroethene | 8.865 | 130 | 48185 | 21.921 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 45779 | 21.896 | ug/l | | 99 |
| 46) Dibromomethane | 9.231 | 93 | 23641 | 21.396 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.426 | 83 | 63960 | 21.429 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 25905 | 20.050 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 4698 | 370.747 | ug/l | # | 93 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 135892 | 94.726 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 122615 | 22.055 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 89982 | 32.354 | ug/l | | 94 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 70570 | 21.413 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 30195 | 20.669 | ug/l | | 98 |
| 56) Ethyl methacrylate | 10.438 | 69 | 42515 | 20.060 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 66722 | 25.621 | ug/l | # | 42 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 91434 | 102.533 | ug/l | # | 71 |
| 59) 2-Hexanone | 10.761 | 43 | 90691 | 98.464 | ug/l | | 97 |
| 60) Dibromochloromethane | 10.914 | 129 | 41185 | 21.080 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.017 | 107 | 28561 | 21.018 | ug/l | | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 42833 | 21.919 | ug/l | | 92 |
| 65) Chlorobenzene | 11.444 | 112 | 129331 | 22.264 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 43055 | 21.675 | ug/l | | 97 |
| 67) Ethyl Benzene | 11.517 | 91 | 238433 | 22.248 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.627 | 106 | 178050 | 44.684 | ug/l | # | 30 |
| 69) o-Xylene | 11.956 | 106 | 82478 | 22.185 | ug/l | | 99 |
| 70) Styrene | 11.969 | 104 | 136494 | 21.974 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 23329 | 20.889 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.255 | 105 | 221703 | 21.727 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 47848 | 20.036 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 34416 | 20.778 | ug/l | | 97 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 45694 | 37.617 | ug/l | # | 100 |
| 77) Bromobenzene | 12.536 | 156 | 47306 | 21.282 | ug/l | | 98 |
| 78) n-propylbenzene | 12.596 | 91 | 270238 | 21.981 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 150281 | 21.727 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 180725 | 21.827 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 11746 | 20.297 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 156322 | 21.784 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 156978 | 20.934 | ug/l | | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 199323 | 24.542 | ug/l | | 95 |
| 85) sec-Butylbenzene | 13.176 | 105 | 237258 | 21.761 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.291 | 119 | 198272 | 22.057 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.291 | 146 | 94820 | 21.610 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 94077 | 21.648 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 189919 | 22.293 | ug/l | | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 38301 | 21.500 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 81571 | 21.456 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 9414 | 35.007 | ug/l | | 57 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 49266 | 21.424 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 32852 | 21.854 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 80228 | 20.350 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 41397 | 21.307 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

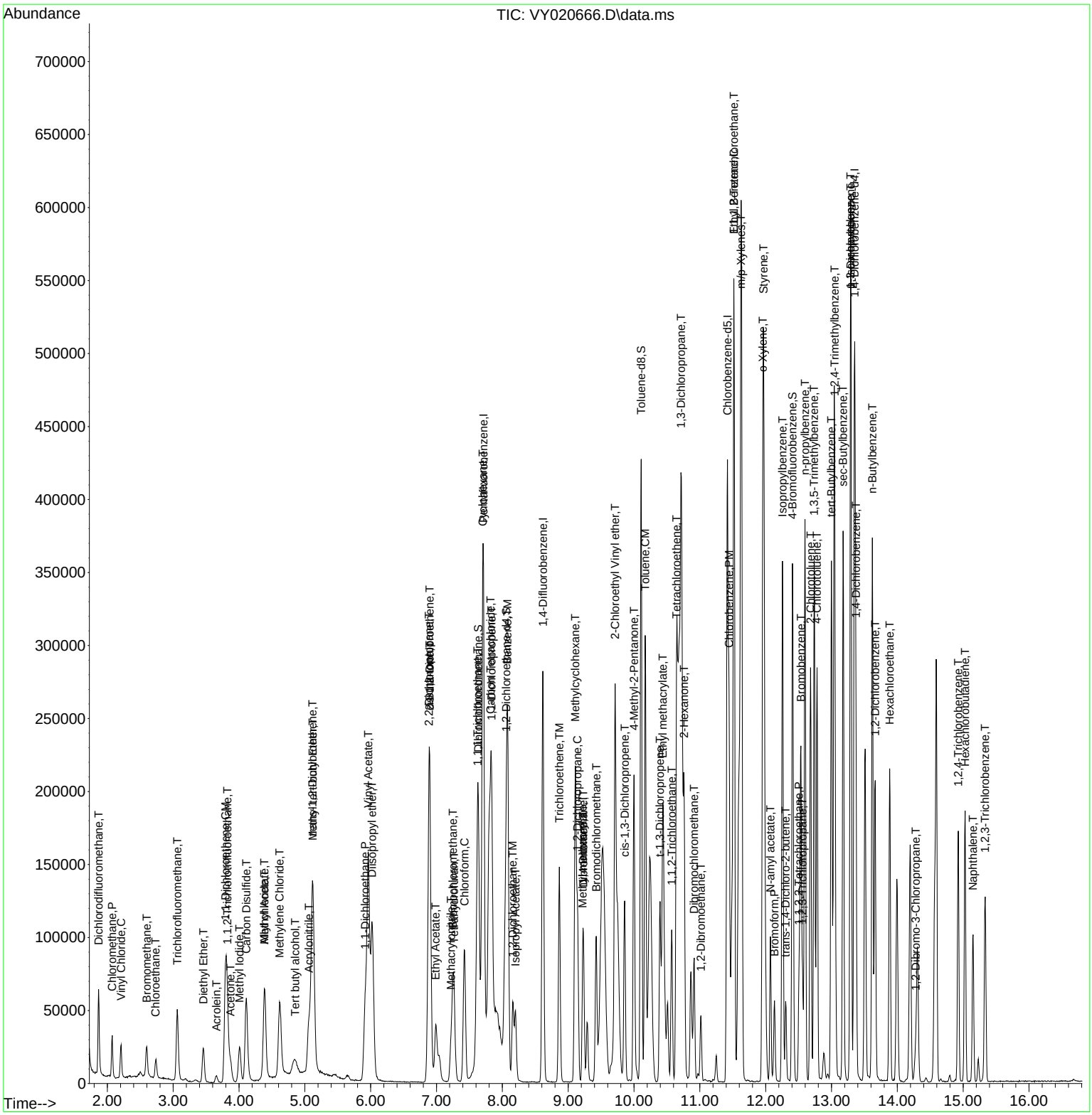
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

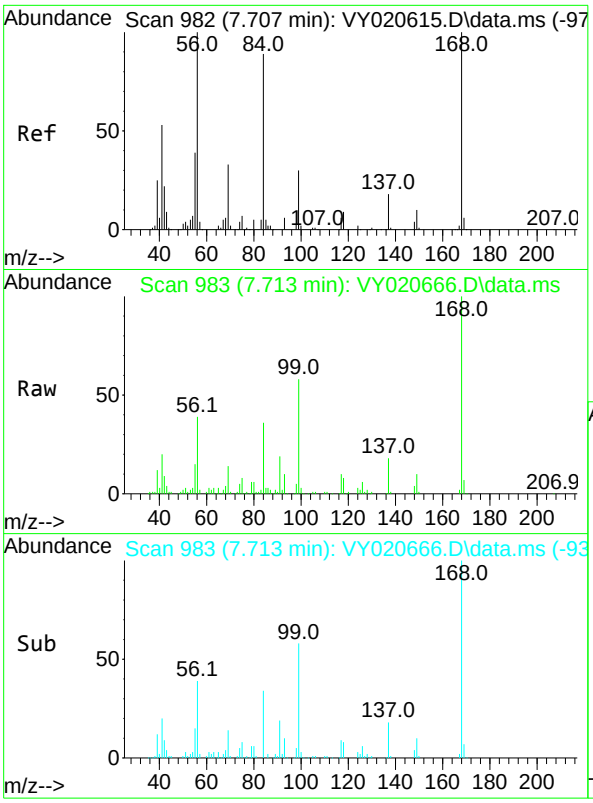
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020666.D
Acq On : 20 Dec 2024 13:12
Operator : SY/MD
Sample : VY1220SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Quant Time: Dec 20 18:08:25 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



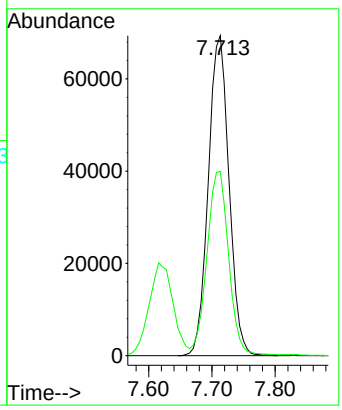


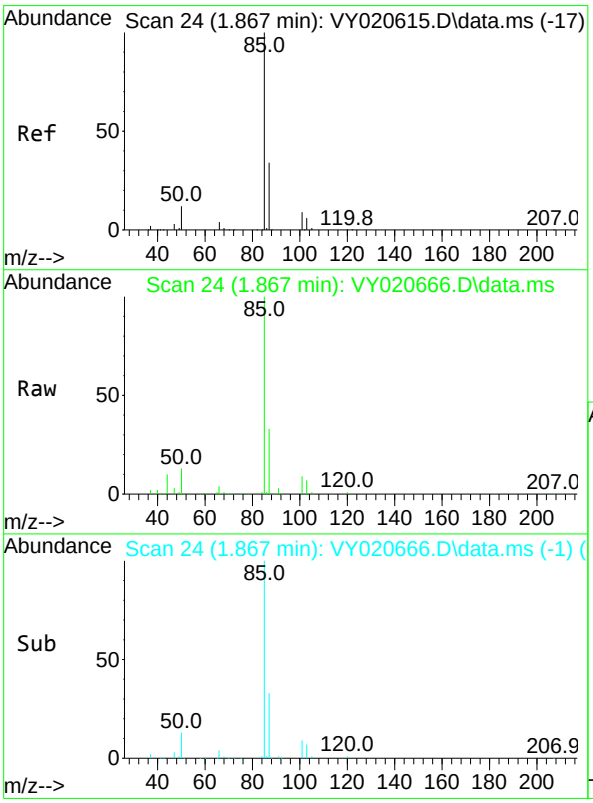

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:168 Resp: 157442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.3 | 47.0 | 70.6 |

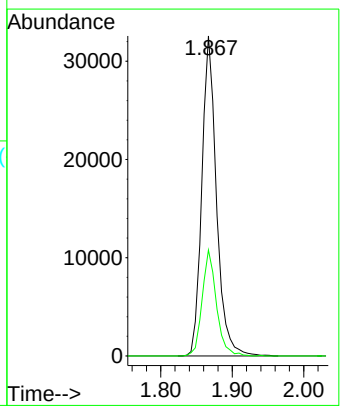


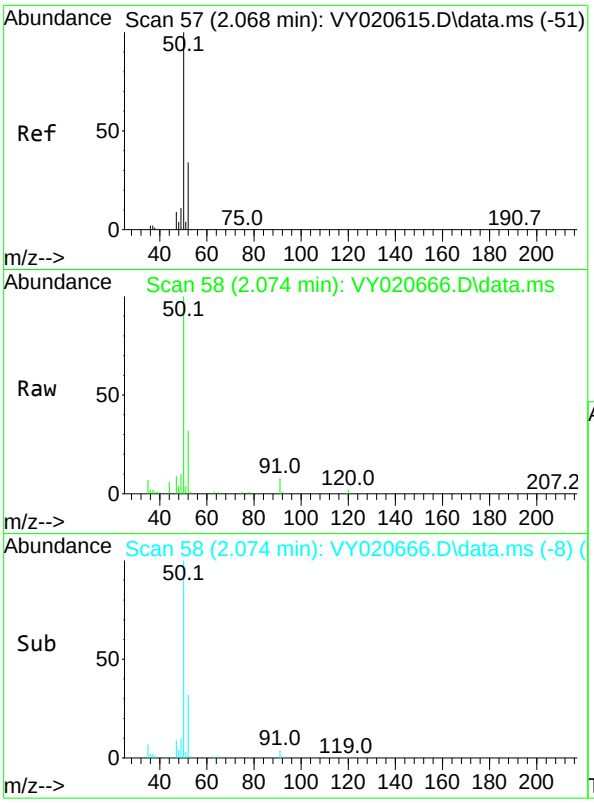




#2
Dichlorodifluoromethane
Concen: 23.644 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 85 Resp: 46496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 16.8 | 50.3 |



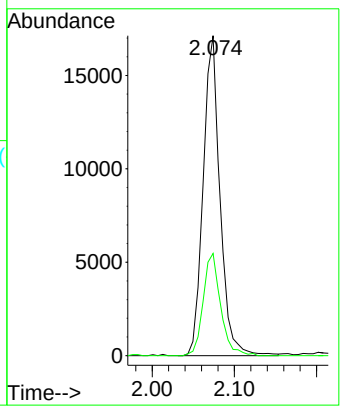


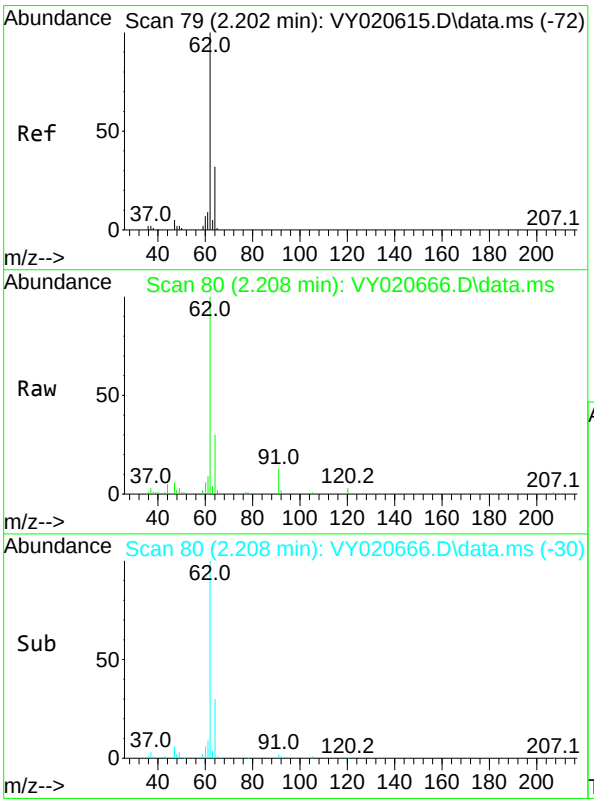

#3
Chloromethane
Concen: 16.744 ug/l
RT: 2.074 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 50 Resp: 24398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.0 | 26.8 | 40.2 |

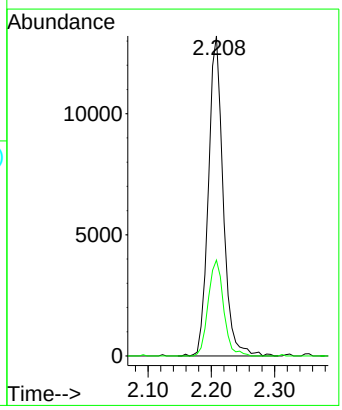


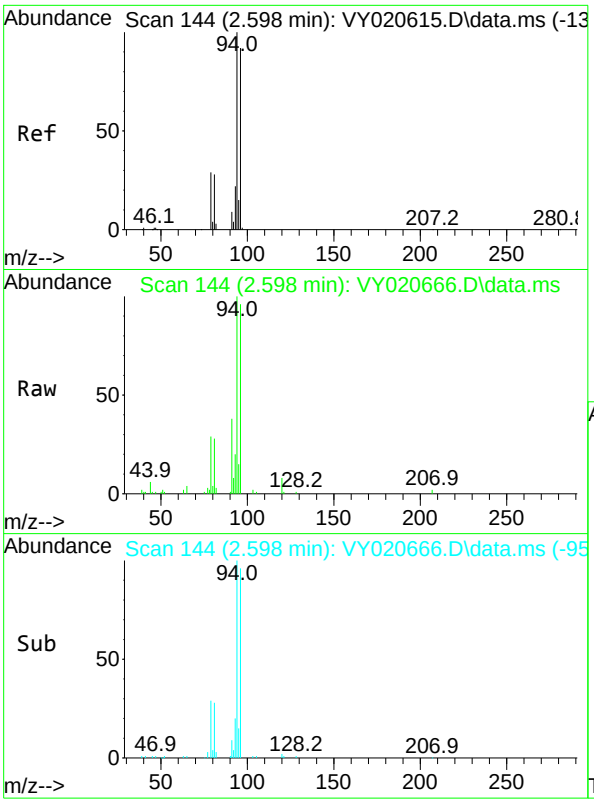




#4
Vinyl Chloride
Concen: 15.785 ug/l
RT: 2.208 min Scan# 80
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 62 Resp: 21407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 29.9 | 25.3 | 37.9 |



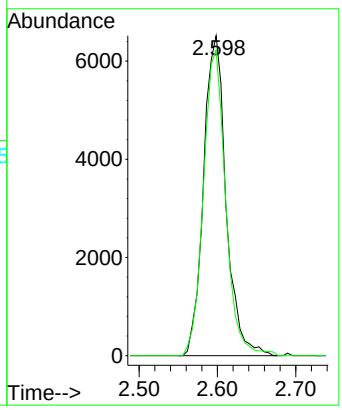


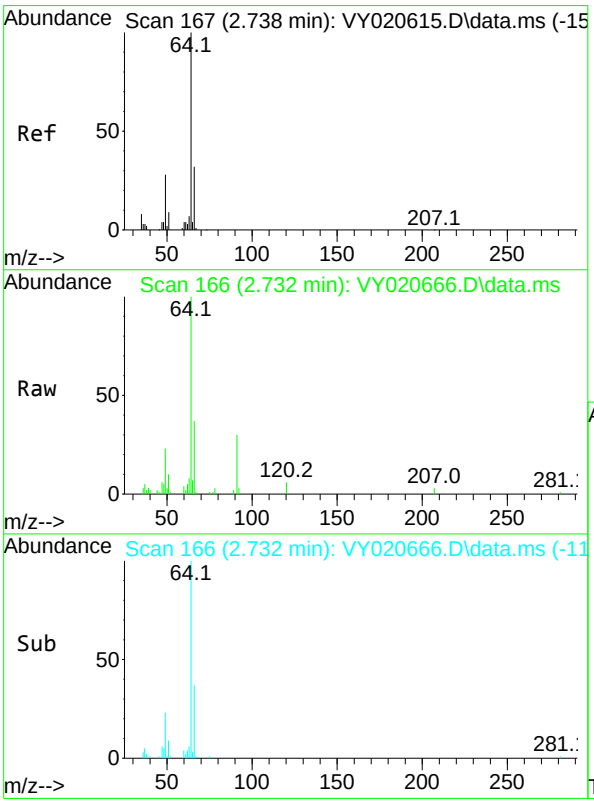

#5
Bromomethane
Concen: 14.895 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 94 Resp: 12985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.5 | 73.8 | 110.6 |

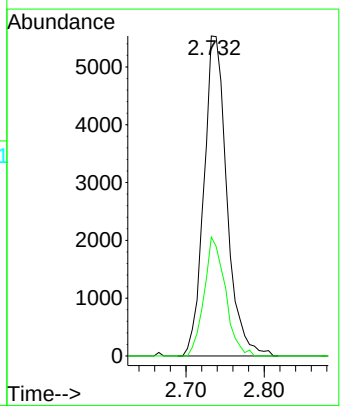


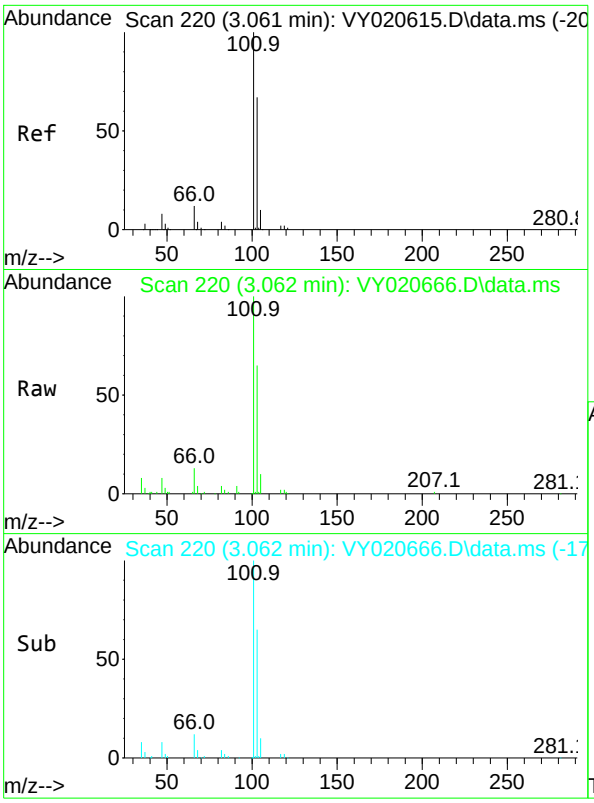




#6
Chloroethane
Concen: 13.462 ug/l
RT: 2.732 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 64 Resp: 11282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 37.1 | 25.8 | 38.6 |



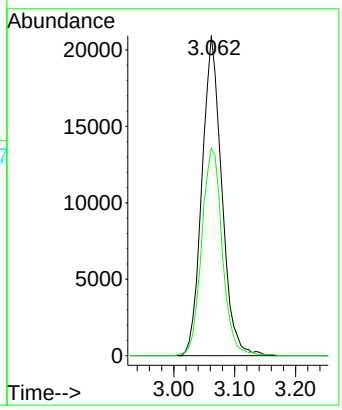


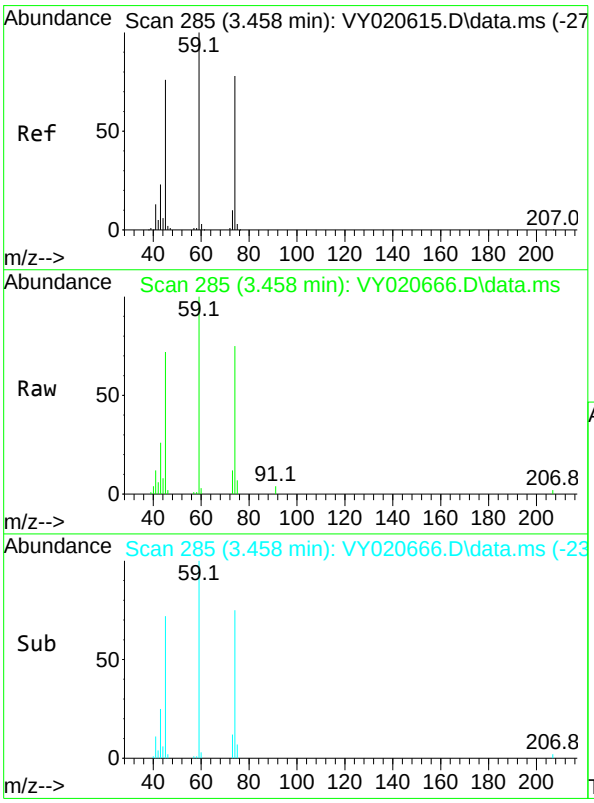

#7
Trichlorofluoromethane
Concen: 16.649 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:101 Resp: 47245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.9 | 53.4 | 80.0 |

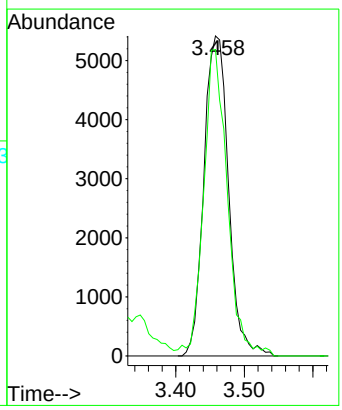


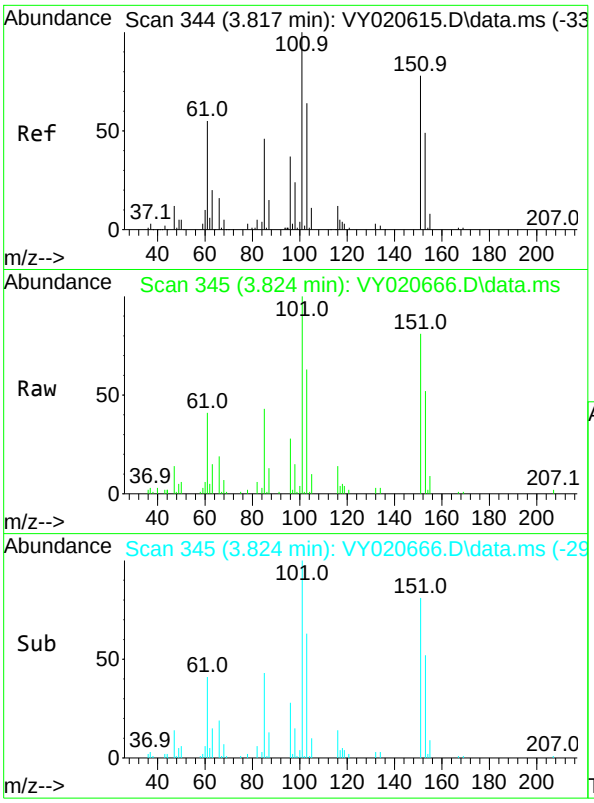




#8
Diethyl Ether
Concen: 13.569 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 74 Resp: 13504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 92.8 | 49.0 | 147.2 |



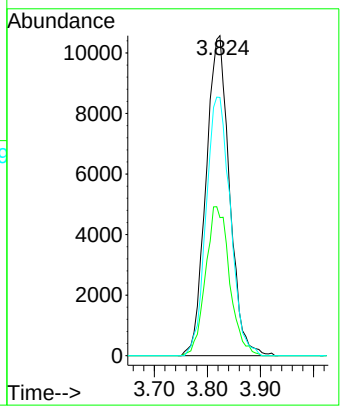


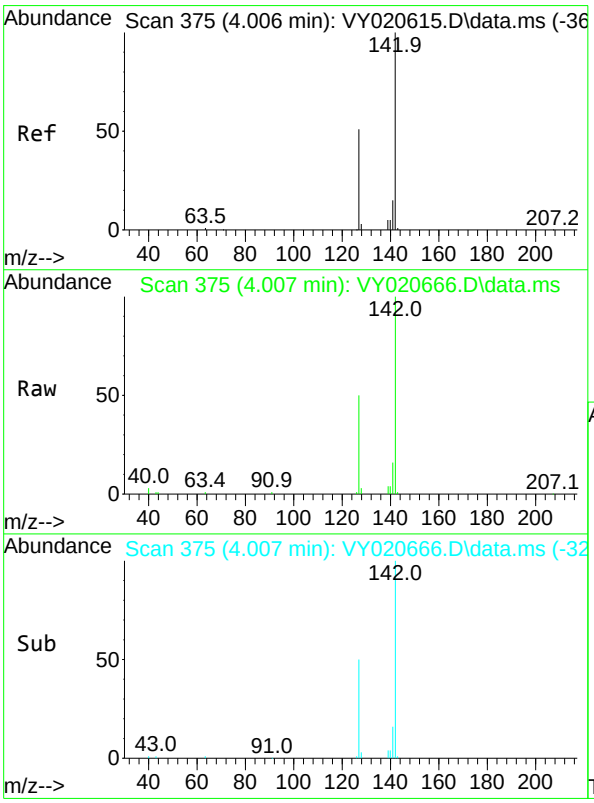

#9
1,1,2-Trichlorotrifluoroethane
Concen: 16.018 ug/l
RT: 3.824 min Scan# 34
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:101 Resp: 32580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.6 | 36.6 | 54.8 |
| 151 | 83.2 | 61.5 | 92.3 |

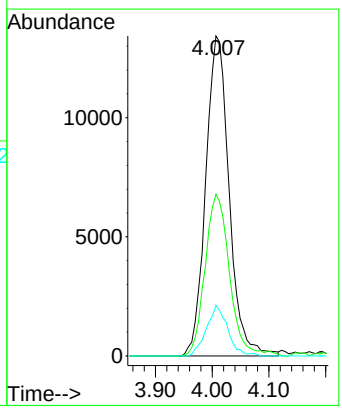


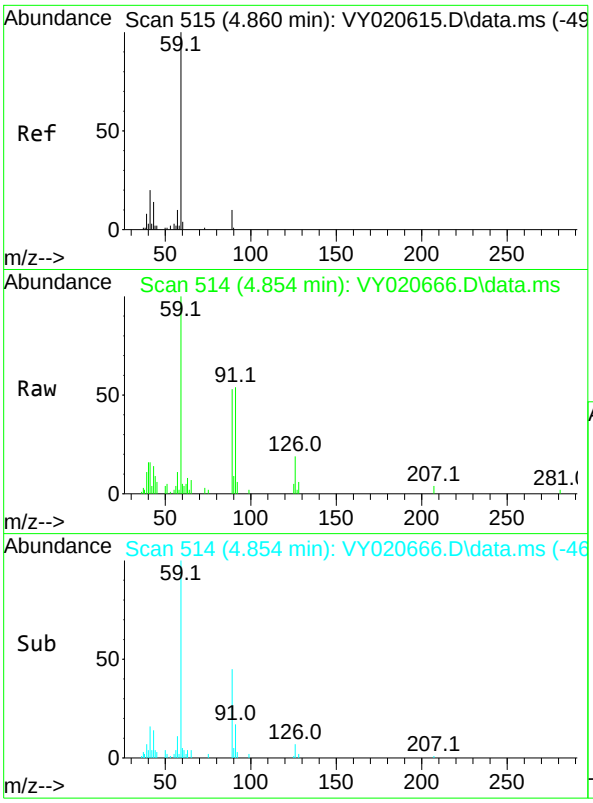




#10
Methyl Iodide
Concen: 17.014 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:142 Resp: 38530

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 52.2 | 40.6 | 61.0 |
| 141 | 14.4 | 11.7 | 17.5 |



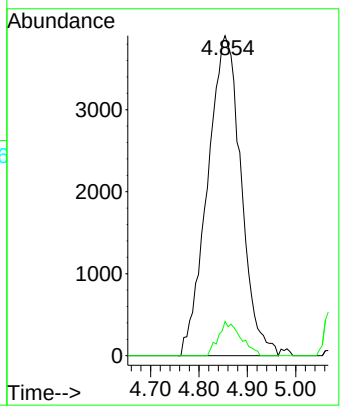


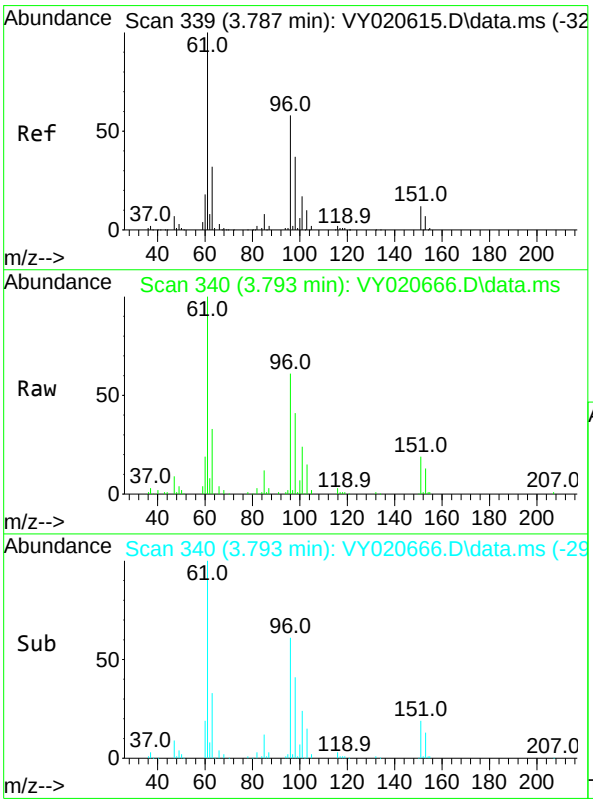

#11
Tert butyl alcohol
Concen: 80.656 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 59 Resp: 18773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 7.1 | 7.4 | 11.0# |

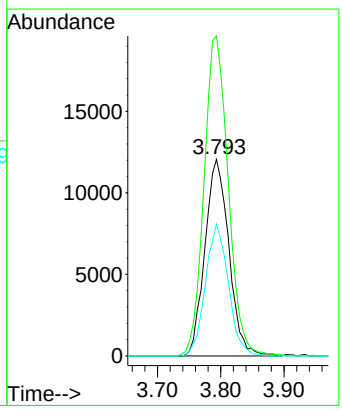


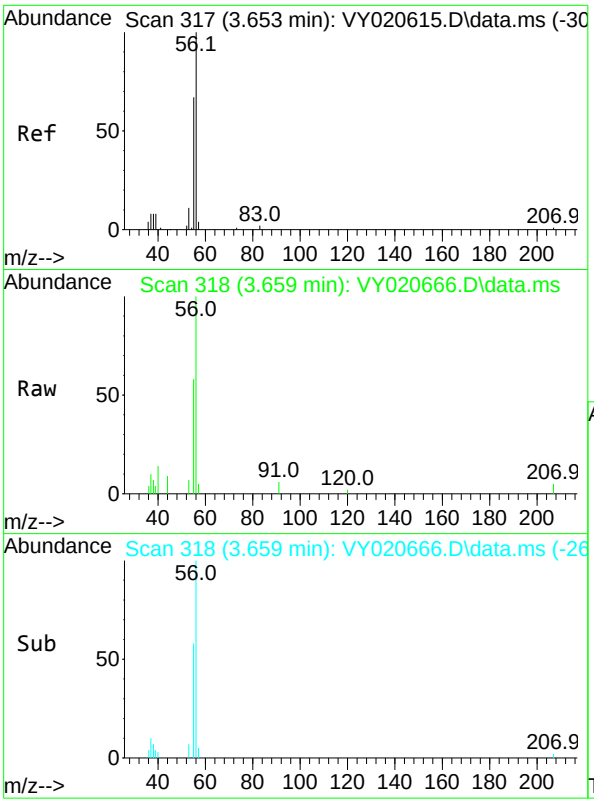




#12
1,1-Dichloroethene
Concen: 16.099 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 96 Resp: 31773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.7 | 136.9 | 205.3 |
| 98 | 67.1 | 50.2 | 75.4 |



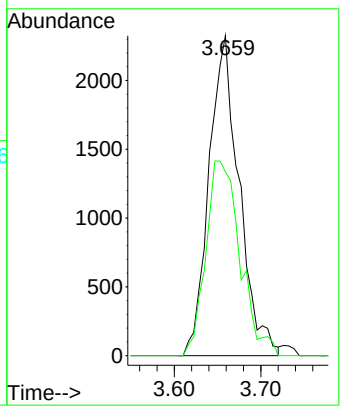


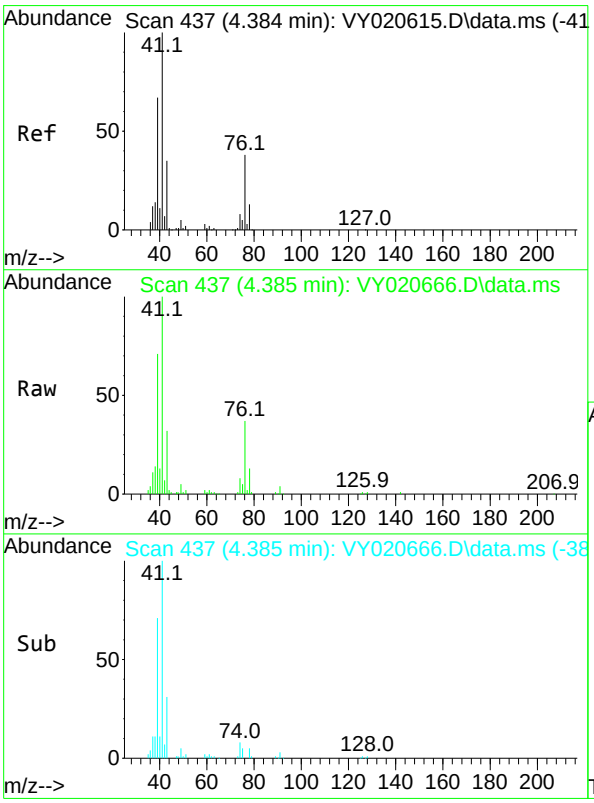

#13
Acrolein
Concen: 69.014 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 56 Resp: 5627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.1 | 57.5 | 86.3 |

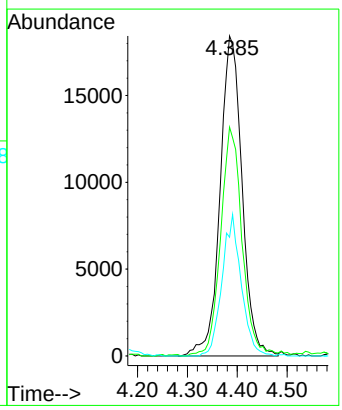


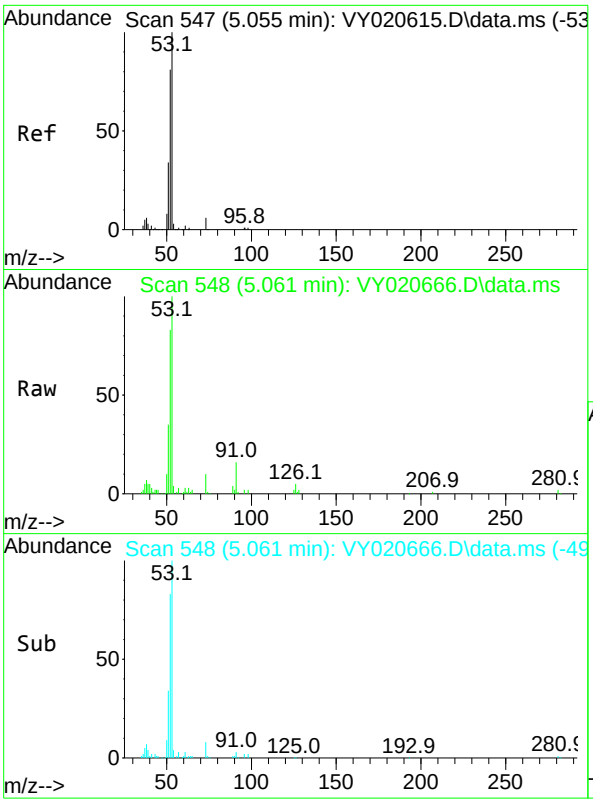




#14
Allyl chloride
Concen: 16.326 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 41 Resp: 56459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 69.5 | 53.0 | 79.4 |
| 76 | 38.6 | 29.5 | 44.3 |



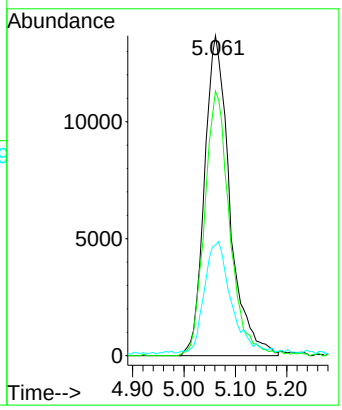


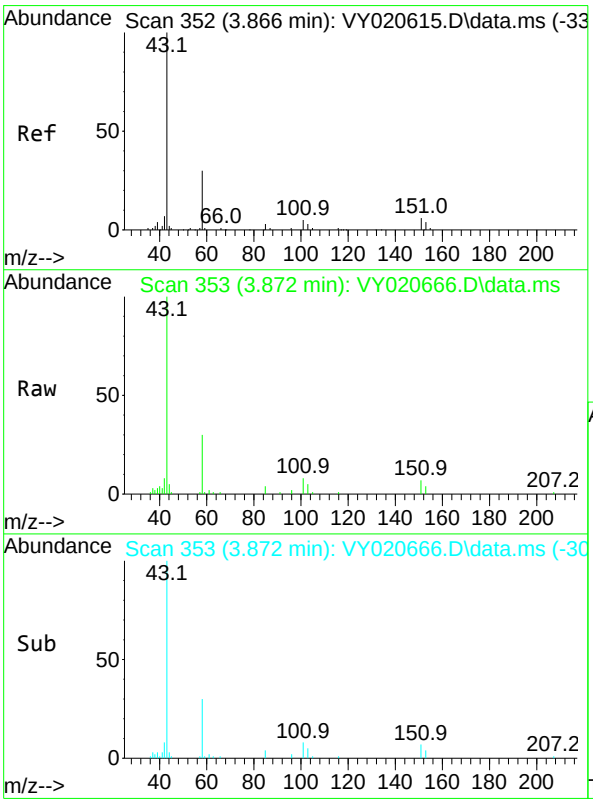

#15
Acrylonitrile
Concen: 97.887 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 53 Resp: 46605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.6 | 64.5 | 96.7 |
| 51 | 37.2 | 29.4 | 44.0 |

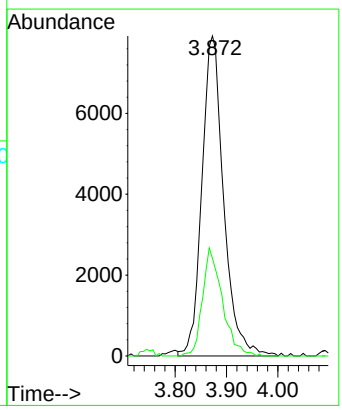


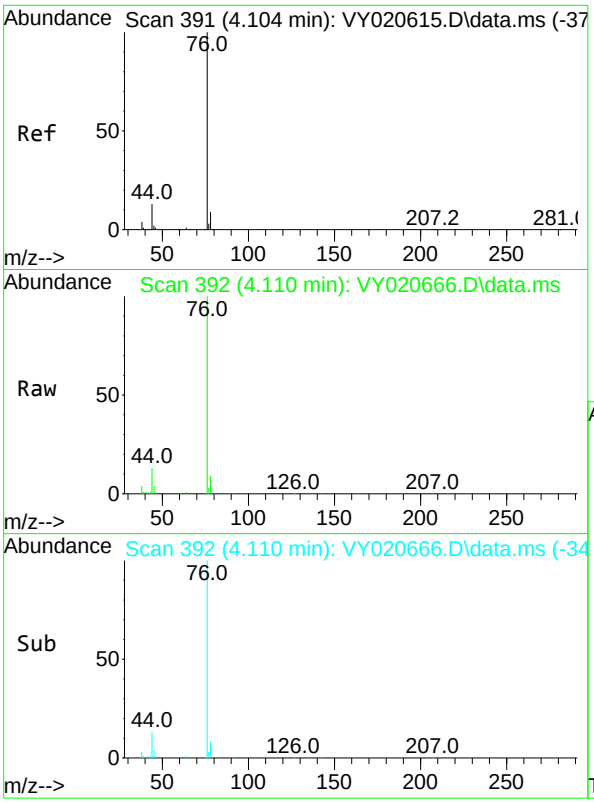




#16
Acetone
Concen: 63.034 ug/l
RT: 3.872 min Scan# 353
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 23242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.5 | 25.0 | 37.6 |



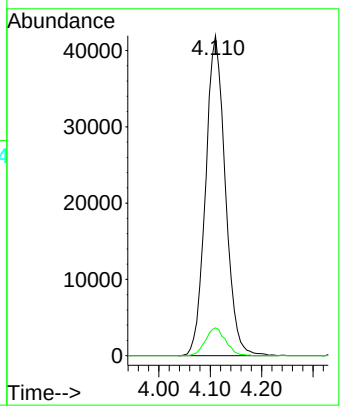


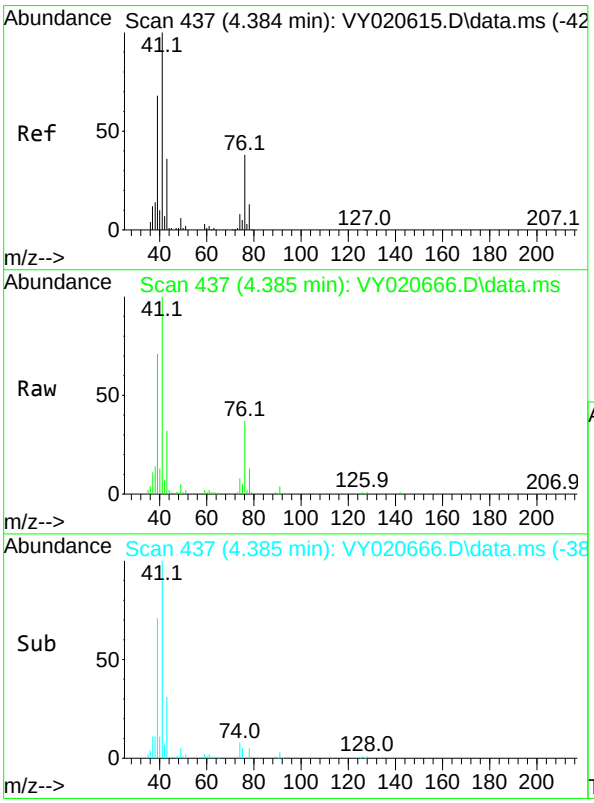

#17
Carbon Disulfide
Concen: 17.411 ug/l
RT: 4.110 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 76 Resp: 111849

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.7 | 7.2 | 10.8 |

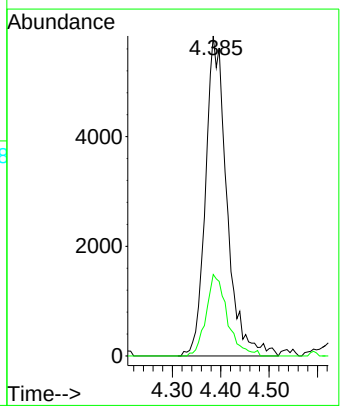


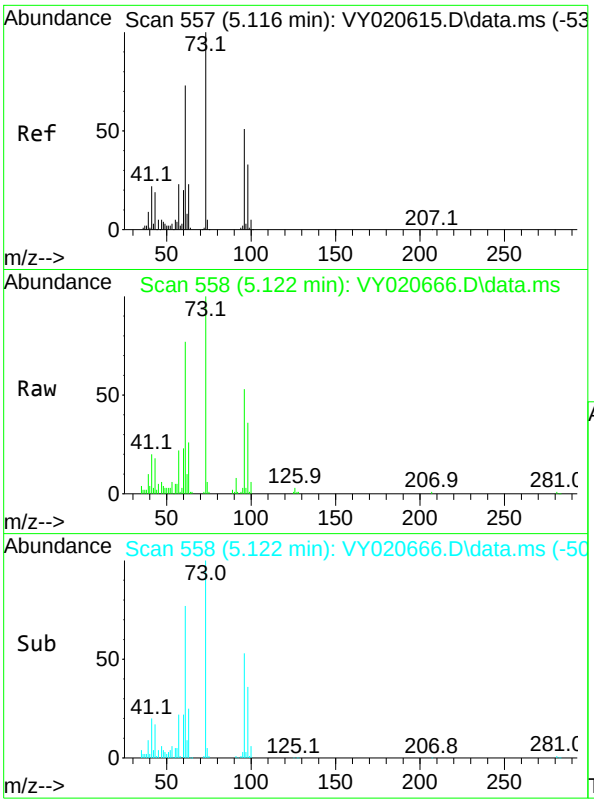




#18
Methyl Acetate
Concen: 15.218 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 17854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.3 | 19.2 | 28.8 |



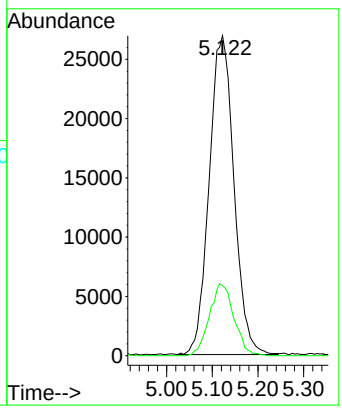


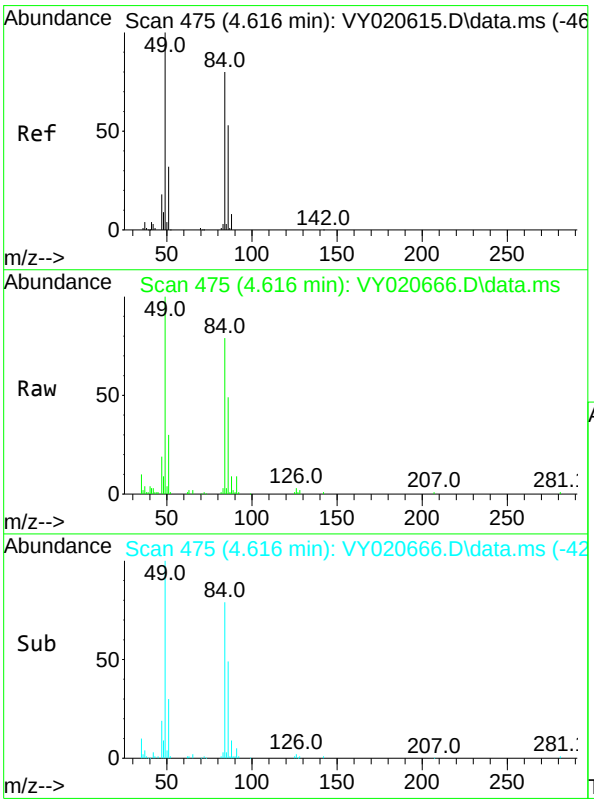

#19
Methyl tert-butyl Ether
Concen: 19.872 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 73 Resp: 101223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 18.5 | 27.7 |

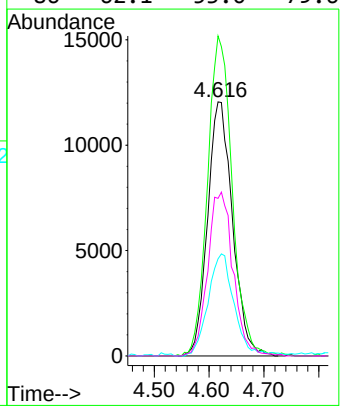


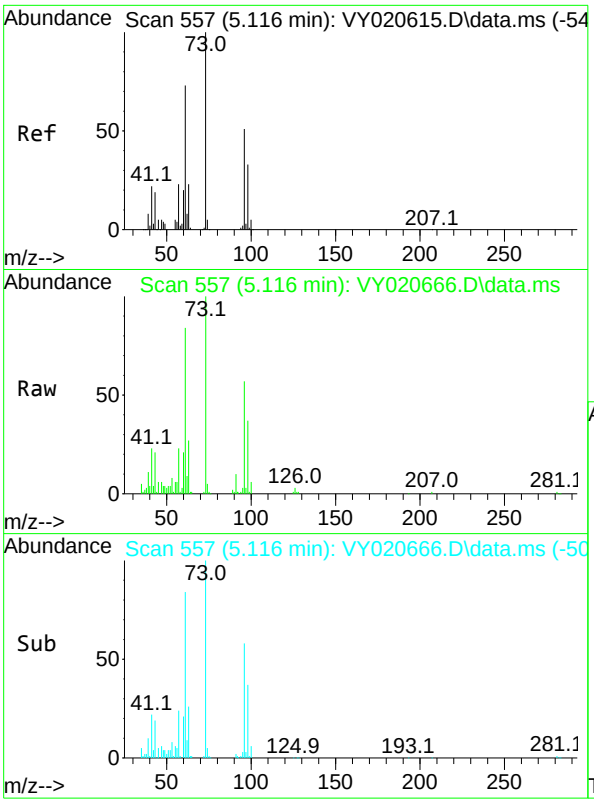




#20
Methylene Chloride
Concen: 17.737 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 84 Resp: 38027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 125.5 | 100.7 | 151.1 |
| 51 | 38.2 | 32.2 | 48.2 |
| 86 | 62.1 | 53.0 | 79.6 |



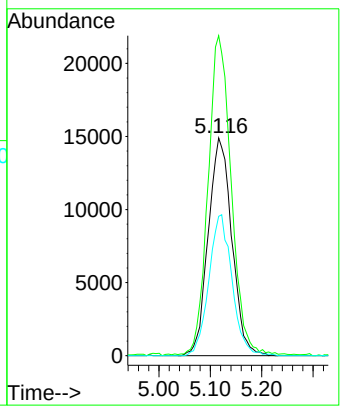


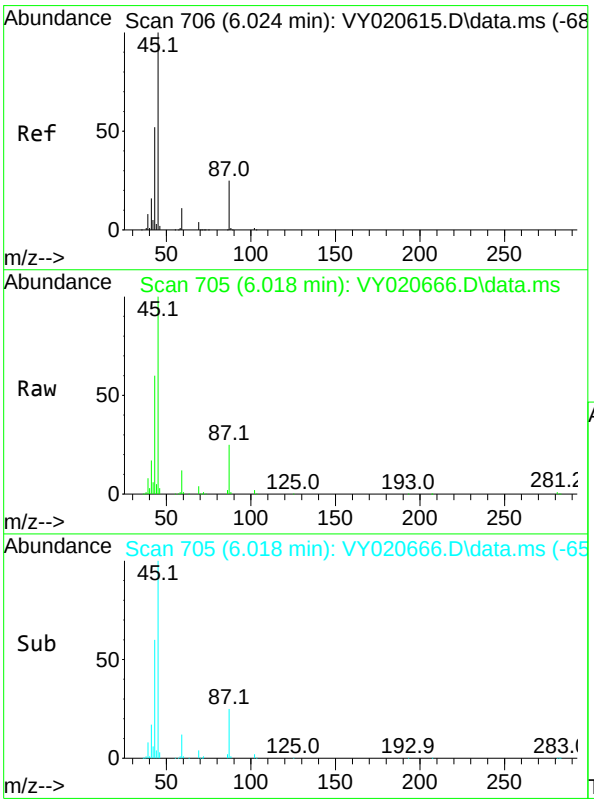

#21
trans-1,2-Dichloroethene
Concen: 21.482 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 96 Resp: 47558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.4 | 113.7 | 170.5 |
| 98 | 64.0 | 51.7 | 77.5 |

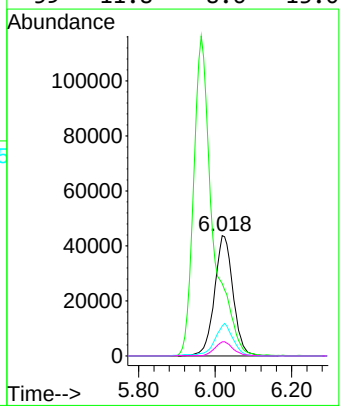


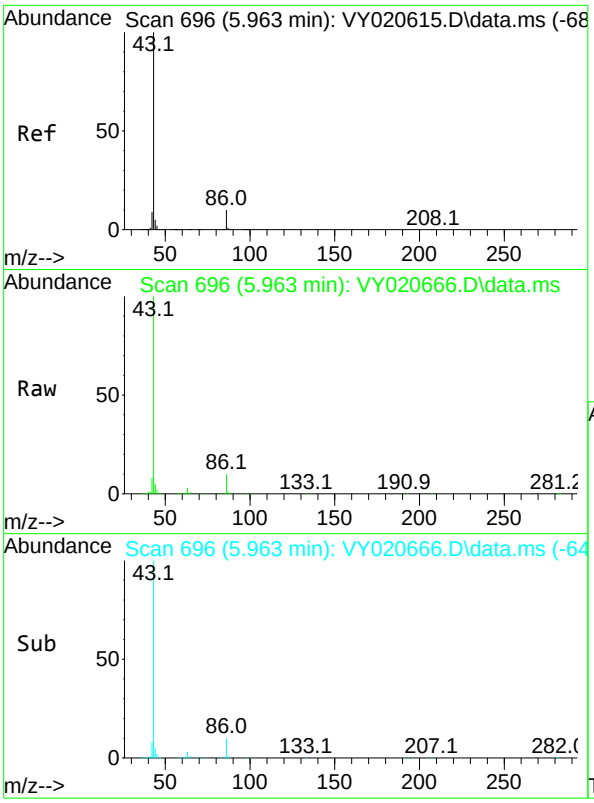




#22
Diisopropyl ether
Concen: 20.998 ug/l
RT: 6.018 min Scan# 705
Delta R.T. -0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 45 Resp: 147396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 59.8 | 42.6 | 64.0 |
| 87 | 24.9 | 20.6 | 31.0 |
| 59 | 11.8 | 8.6 | 13.0 |



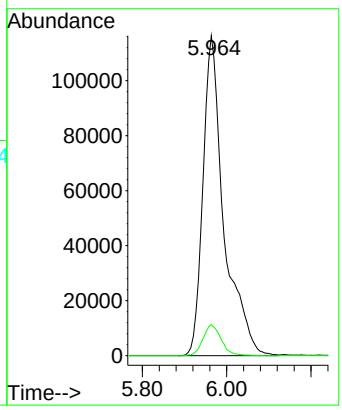


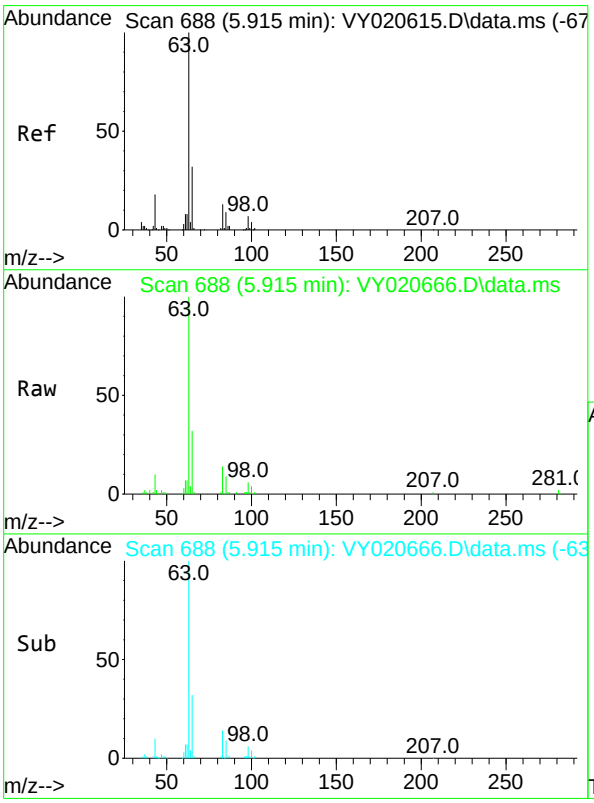

#23
Vinyl Acetate
Concen: 100.993 ug/l
RT: 5.963 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 43 Resp: 401517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 9.7 | 8.1 | 12.1 |

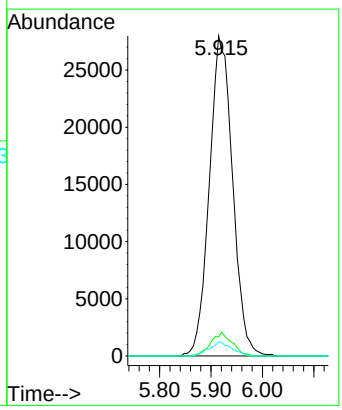


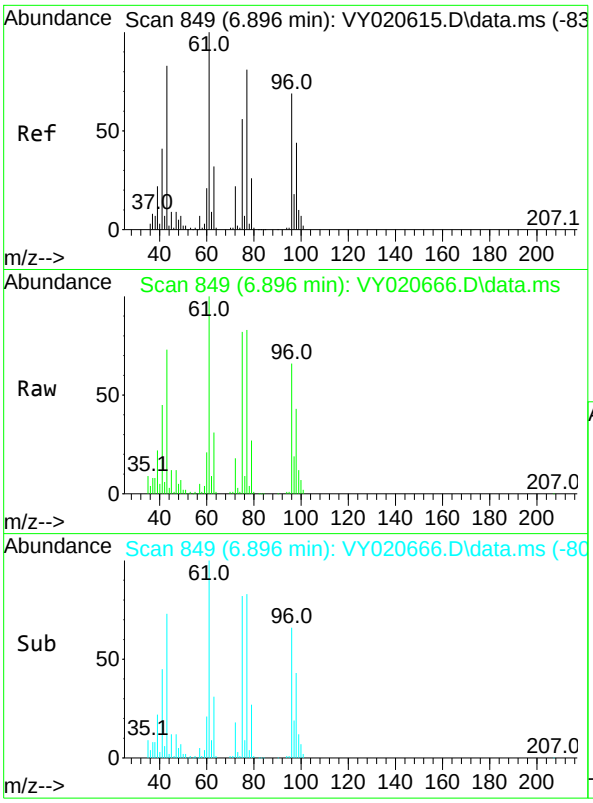




#24
1,1-Dichloroethane
Concen: 21.392 ug/l
RT: 5.915 min Scan# 688
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 63 Resp: 87971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.0 | 3.4 | 10.1 |
| 100 | 4.4 | 2.1 | 6.5 |



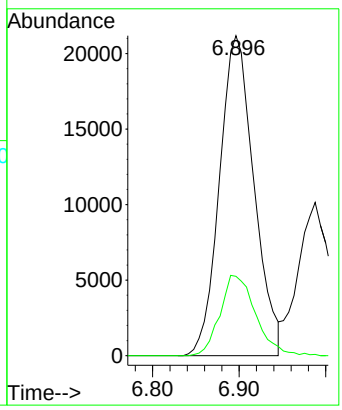


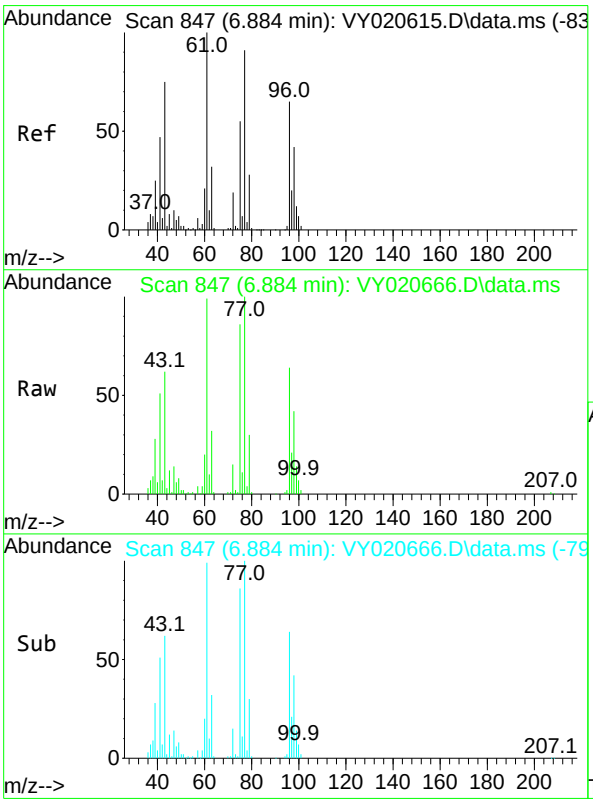

#25
2-Butanone
Concen: 91.655 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 43 Resp: 58734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 24.8 | 20.6 | 31.0 |

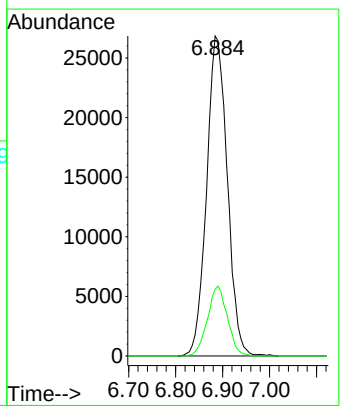


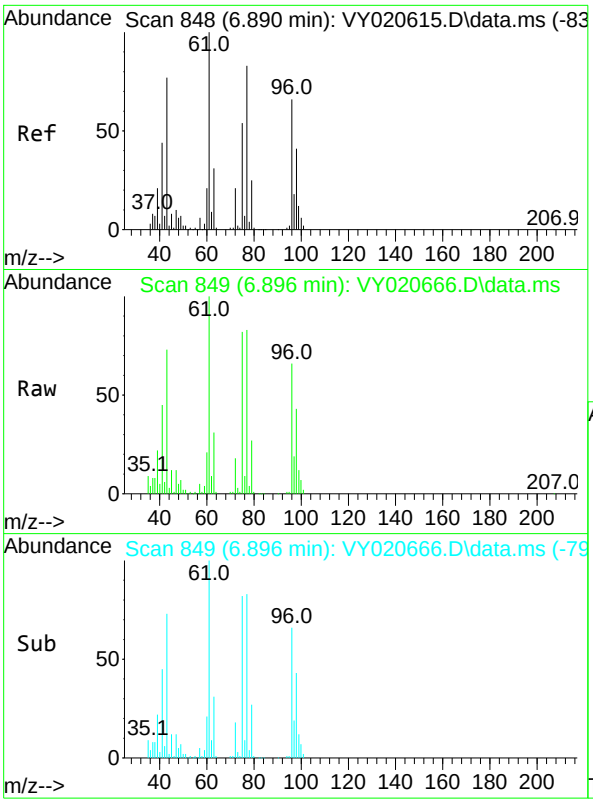




#26
2,2-Dichloropropane
Concen: 21.104 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 77 Resp: 82041

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.0 | 10.9 | 32.6 |



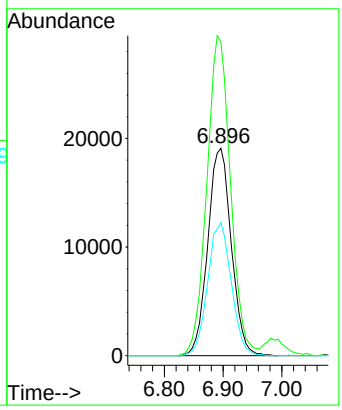


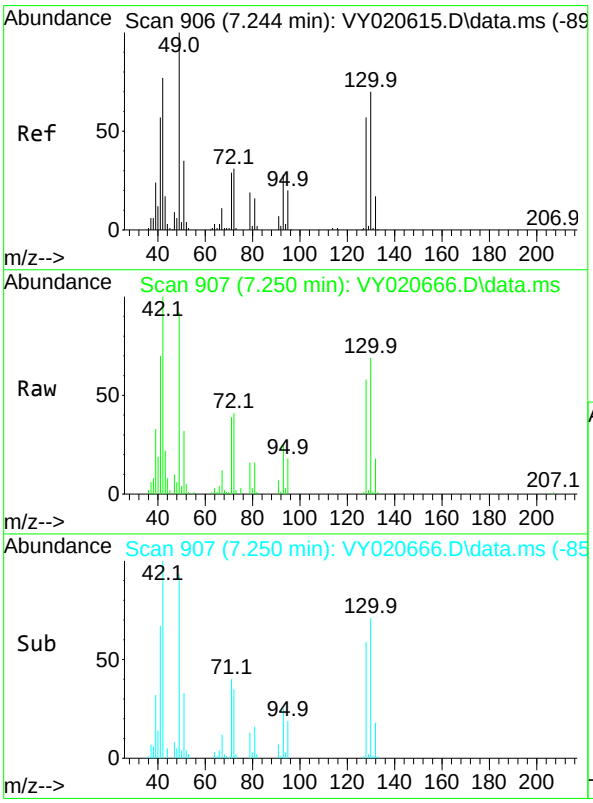

#27
cis-1,2-Dichloroethene
Concen: 20.878 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 96 Resp: 53177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.7 | 0.0 | 306.2 |
| 98 | 64.3 | 0.0 | 127.2 |

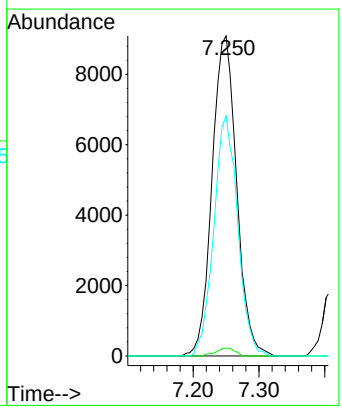


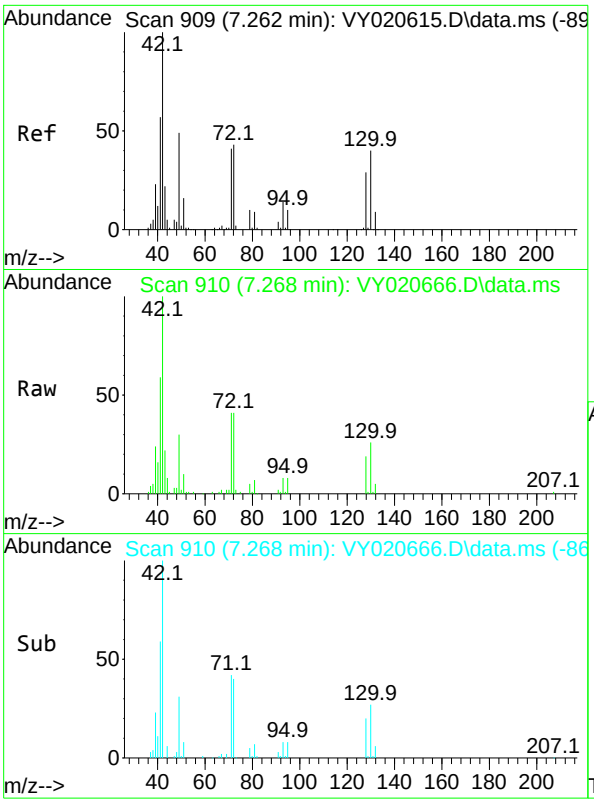




#28
Bromochloromethane
Concen: 17.030 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 49 Resp: 23622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.8 |
| 130 | 73.0 | 58.3 | 87.5 |



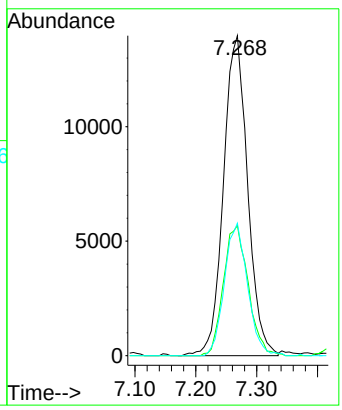


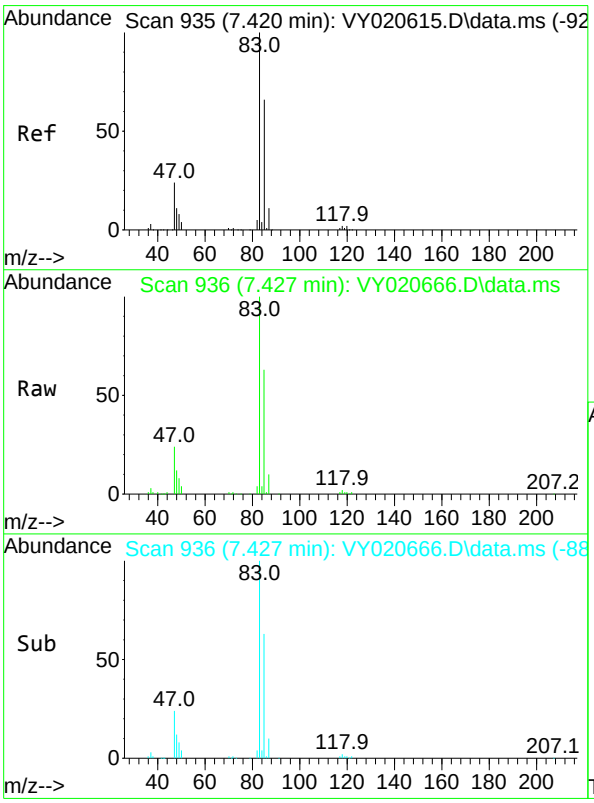

#29
Tetrahydrofuran
Concen: 95.228 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 42 Resp: 38523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 41.7 | 34.0 | 51.0 |
| 71 | 39.6 | 31.6 | 47.4 |

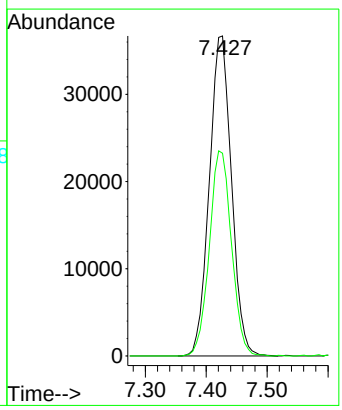


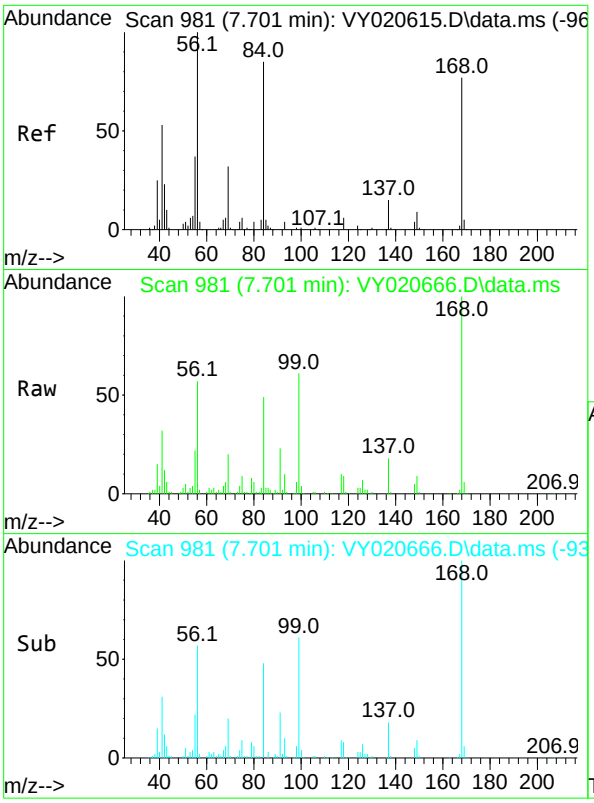




#30
Chloroform
Concen: 19.148 ug/l
RT: 7.427 min Scan# 936
Delta R.T. 0.007 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 83 Resp: 92559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.4 | 52.7 | 79.1 |



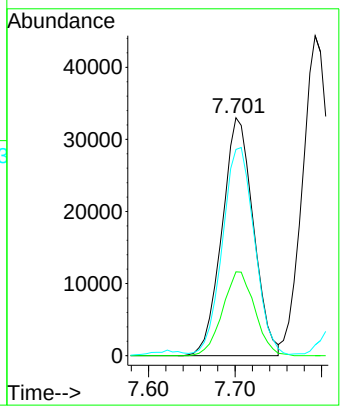


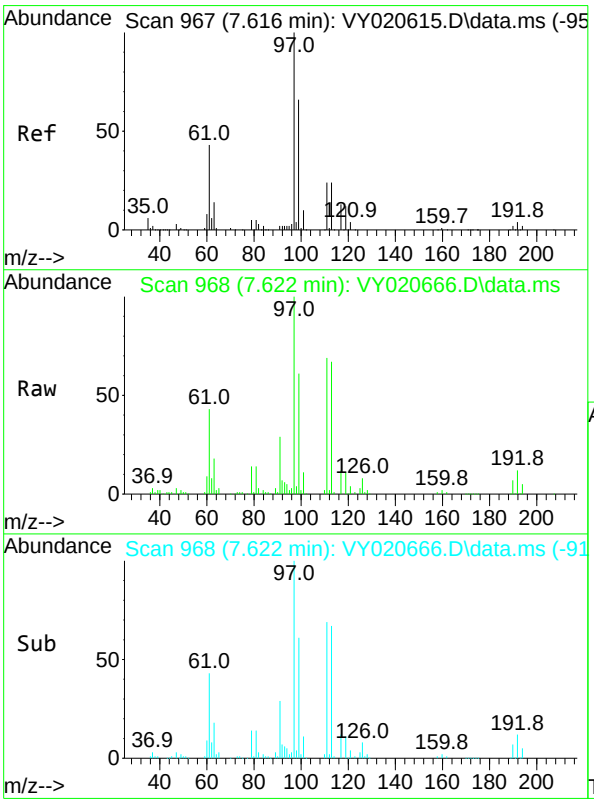

#31
Cyclohexane
Concen: 21.116 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 56 Resp: 83030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.3 | 25.4 | 38.0 |
| 84 | 85.0 | 68.3 | 102.5 |

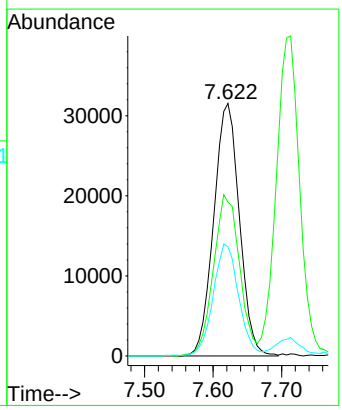


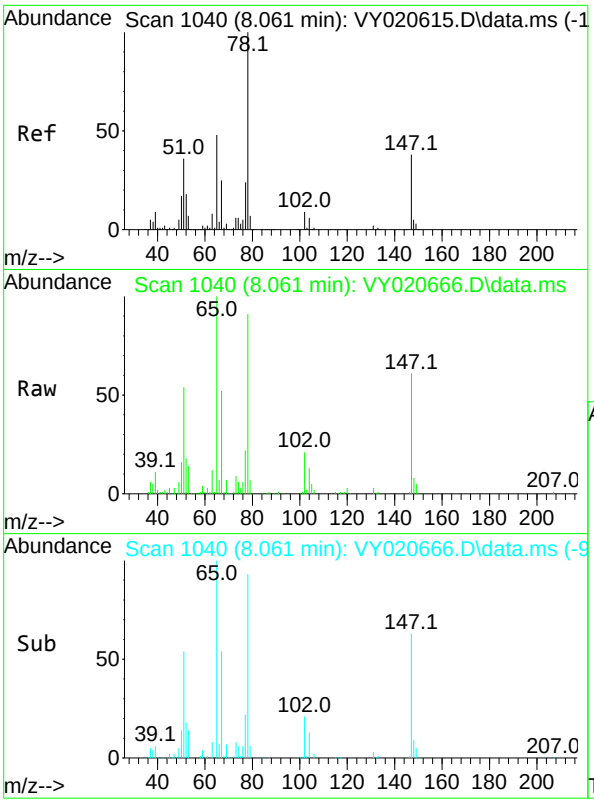




#32
1,1,1-Trichloroethane
Concen: 21.694 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 97 Resp: 81959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.2 | 51.6 | 77.4 |
| 61 | 43.3 | 34.7 | 52.1 |



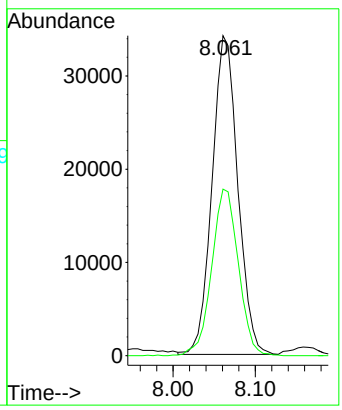


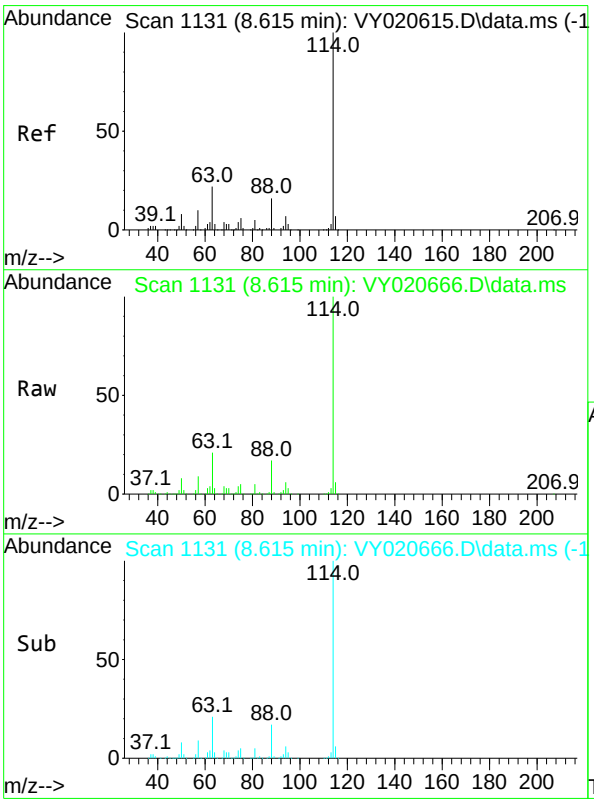

#33
1,2-Dichloroethane-d4
Concen: 43.102 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 65 Resp: 74322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.3 | 0.0 | 108.0 |

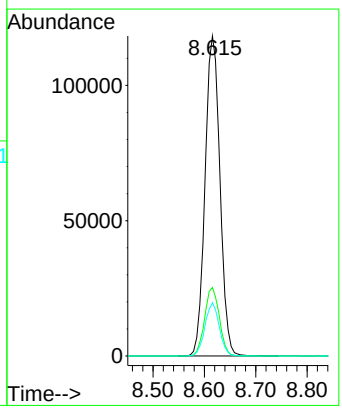


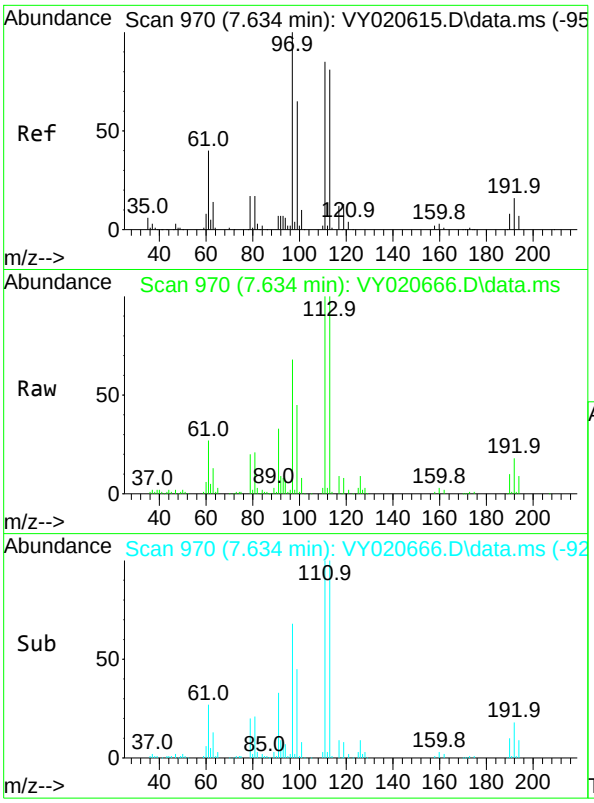




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:114 Resp: 237485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.4 | 0.0 | 44.0 |
| 88 | 16.6 | 0.0 | 32.8 |



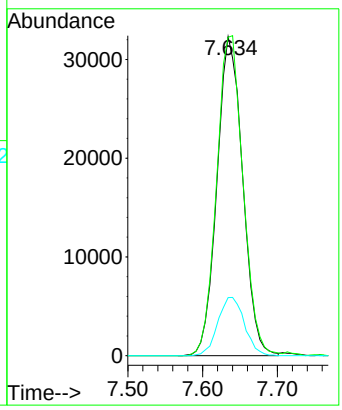


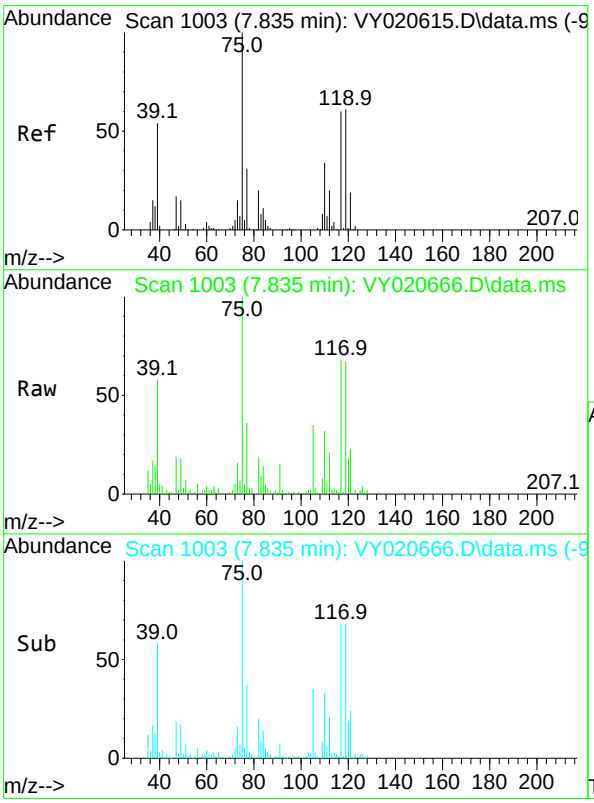

#35
Dibromofluoromethane
Concen: 46.118 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:113 Resp: 77189

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 82.9 | 124.3 |
| 192 | 18.9 | 15.7 | 23.5 |

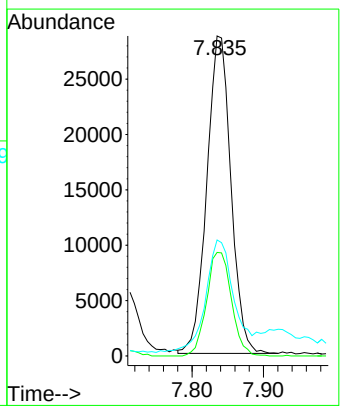


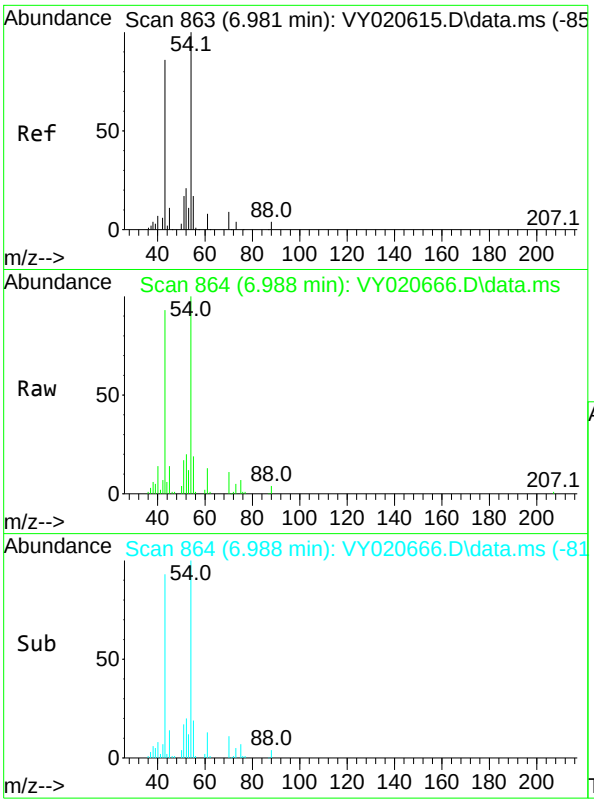




#36
1,1-Dichloropropene
Concen: 21.973 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 75 Resp: 67060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.6 | 16.8 | 50.4 |
| 77 | 41.1 | 25.0 | 37.6# |



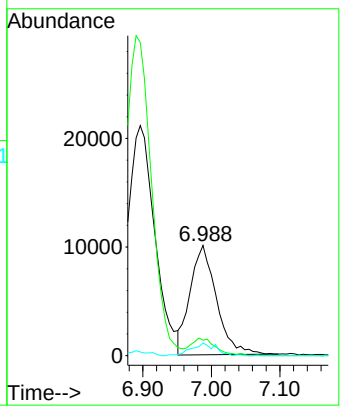


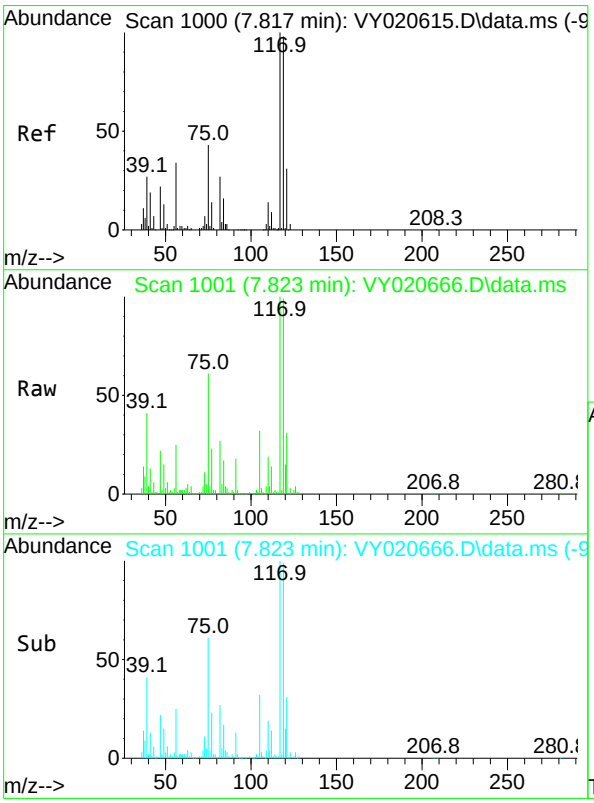

#37
Ethyl Acetate
Concen: 18.775 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 43 Resp: 26953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.3 | 11.0 | 16.4 |
| 70 | 10.7 | 7.9 | 11.9 |

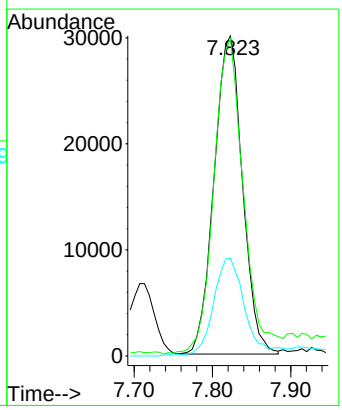


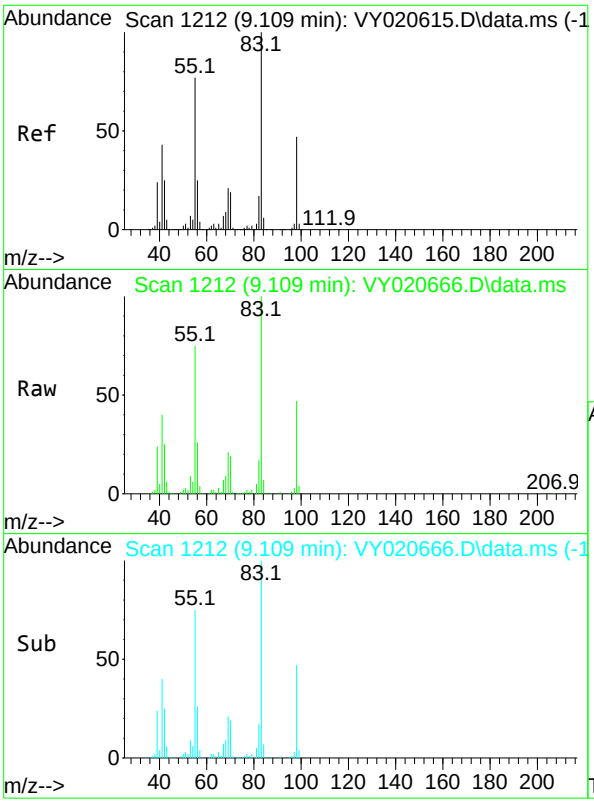




#38
Carbon Tetrachloride
Concen: 22.399 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:117 Resp: 75634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.4 | 78.3 | 117.5 |
| 121 | 30.3 | 25.1 | 37.7 |



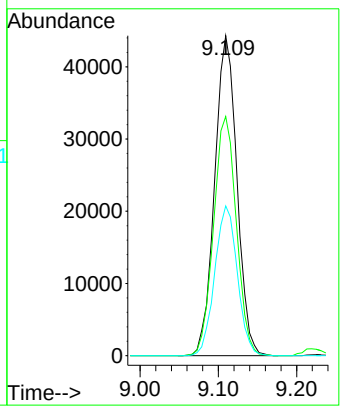


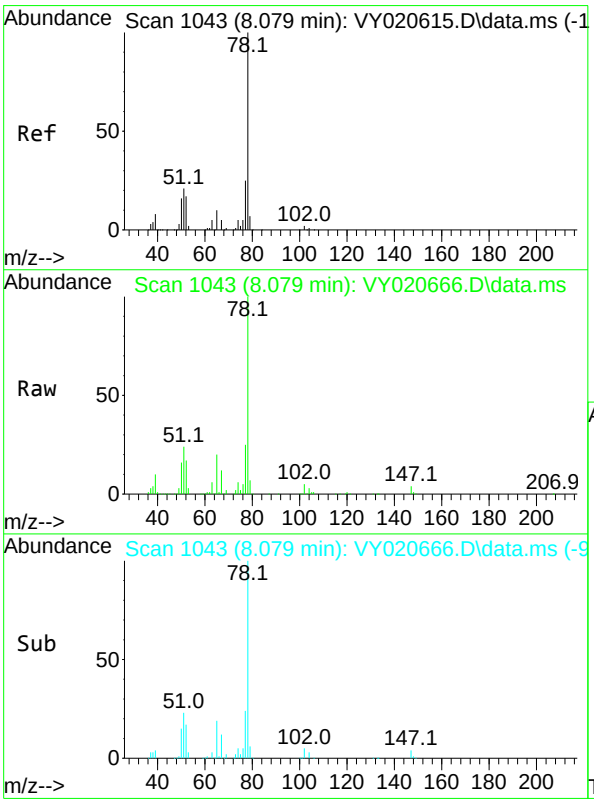

#39
Methylcyclohexane
Concen: 22.028 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 83 Resp: 87624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 74.7 | 61.4 | 92.0 |
| 98 | 46.8 | 37.3 | 55.9 |

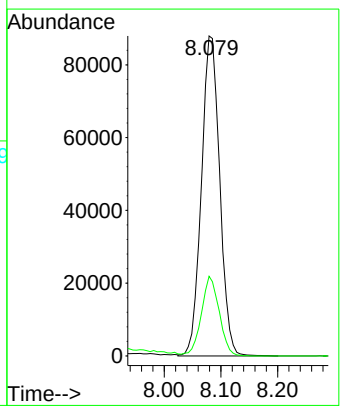


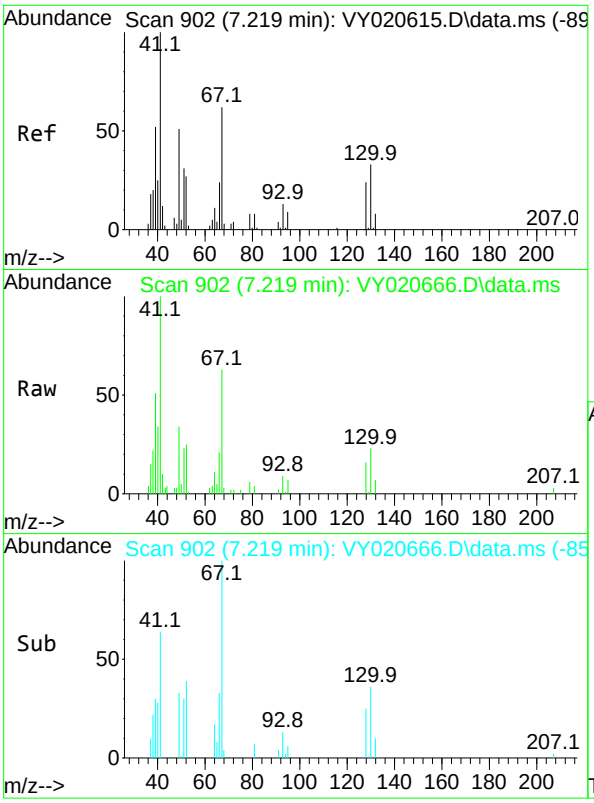




#40
Benzene
Concen: 22.058 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 78 Resp: 197331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.9 | 20.1 | 30.1 |



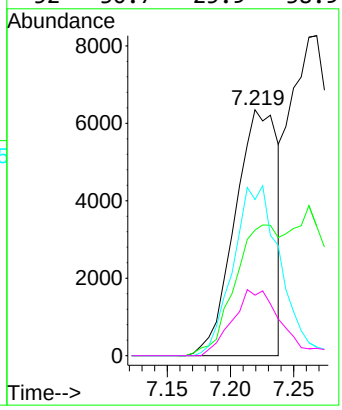


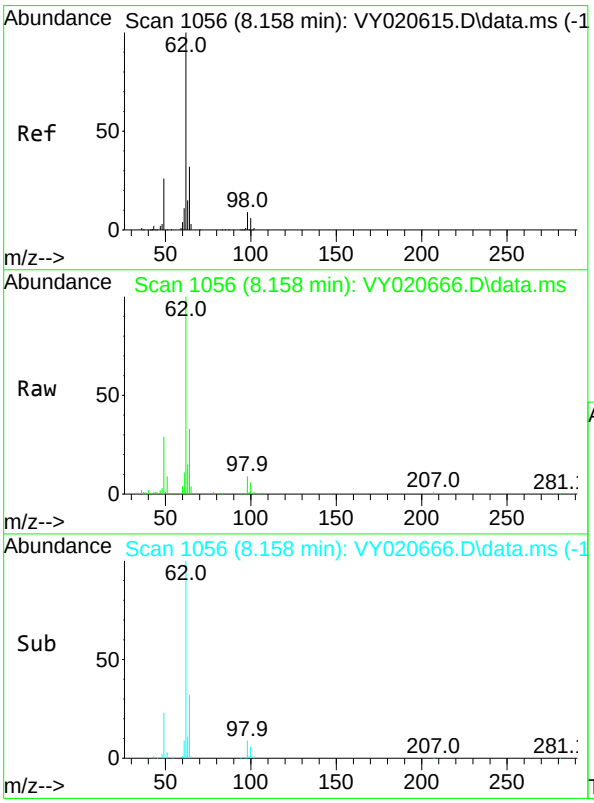

#41
Methacrylonitrile
Concen: 19.610 ug/l
RT: 7.219 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 41 Resp: 14883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 54.3 | 53.6 | 80.4 |
| 67 | 76.1 | 62.0 | 93.0 |
| 52 | 30.7 | 25.9 | 38.9 |

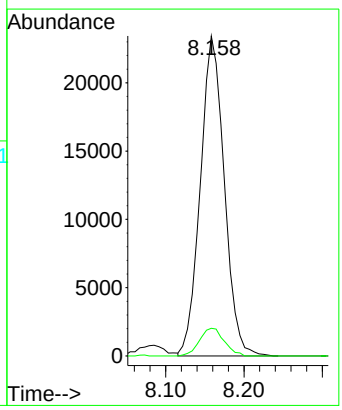


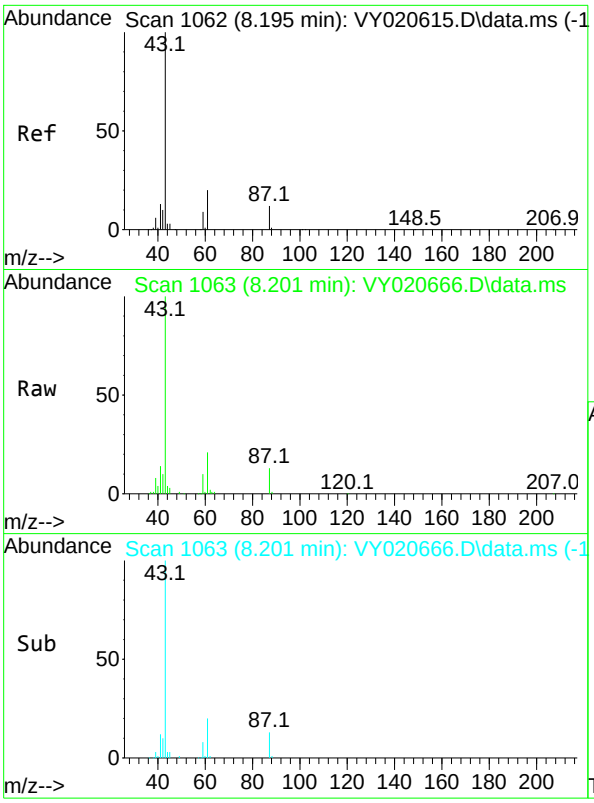




#42
1,2-Dichloroethane
Concen: 20.991 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 62 Resp: 49803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.9 | 0.0 | 18.0 |



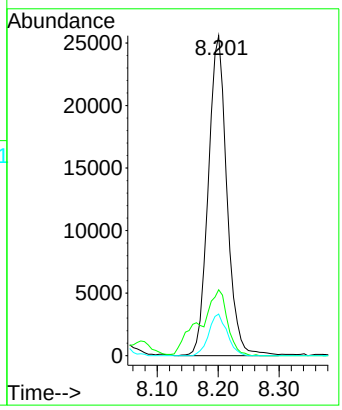


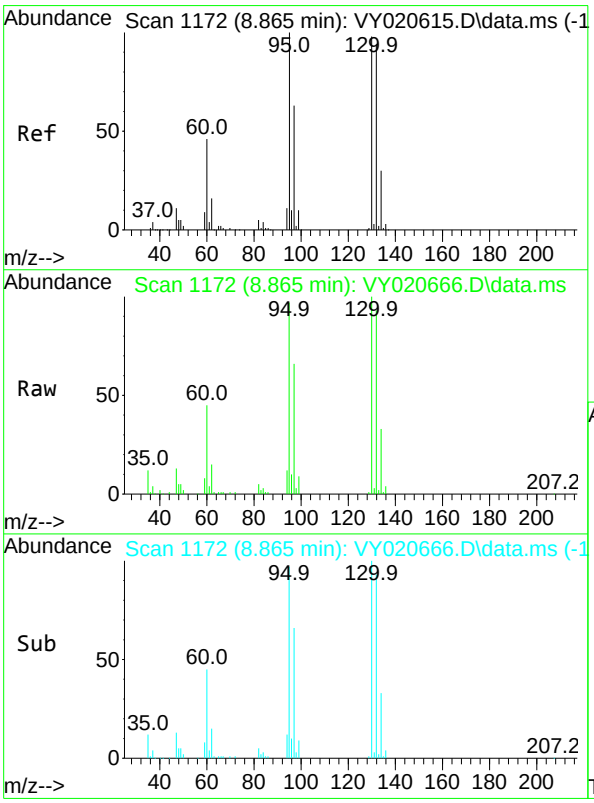

#43
Isopropyl Acetate
Concen: 19.989 ug/l
RT: 8.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 43 Resp: 54326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 30.6 | 23.8 | 35.6 |
| 87 | 12.8 | 10.2 | 15.4 |

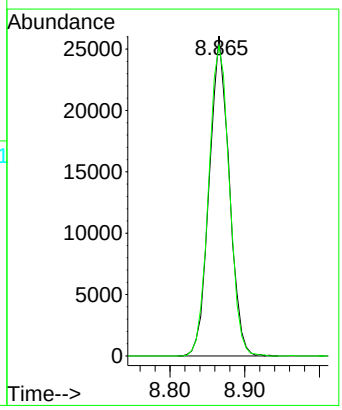


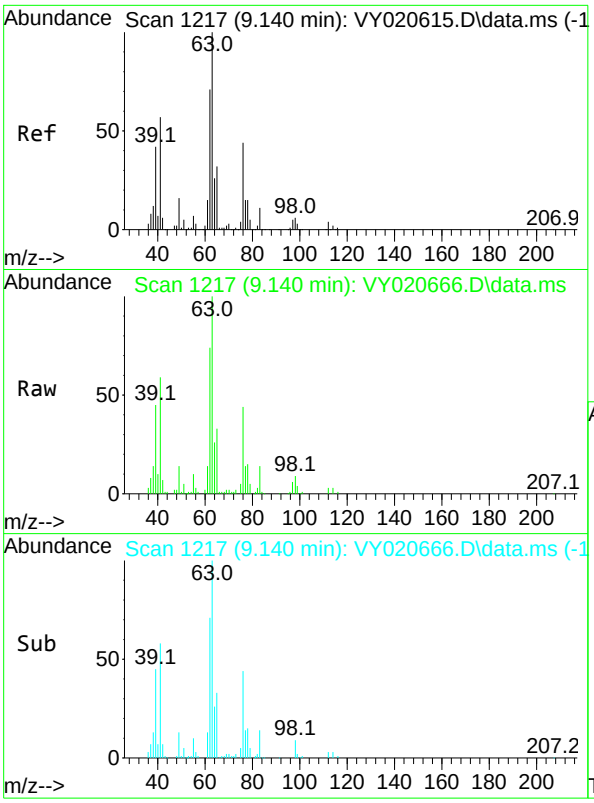




#44
Trichloroethene
Concen: 21.921 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:130 Resp: 48185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 96.8 | 0.0 | 203.2 |



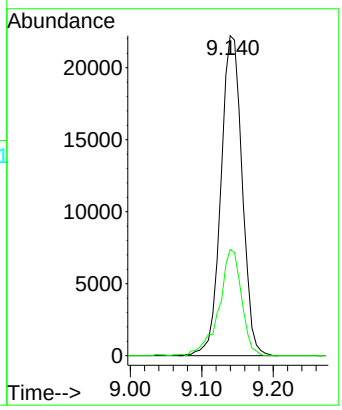


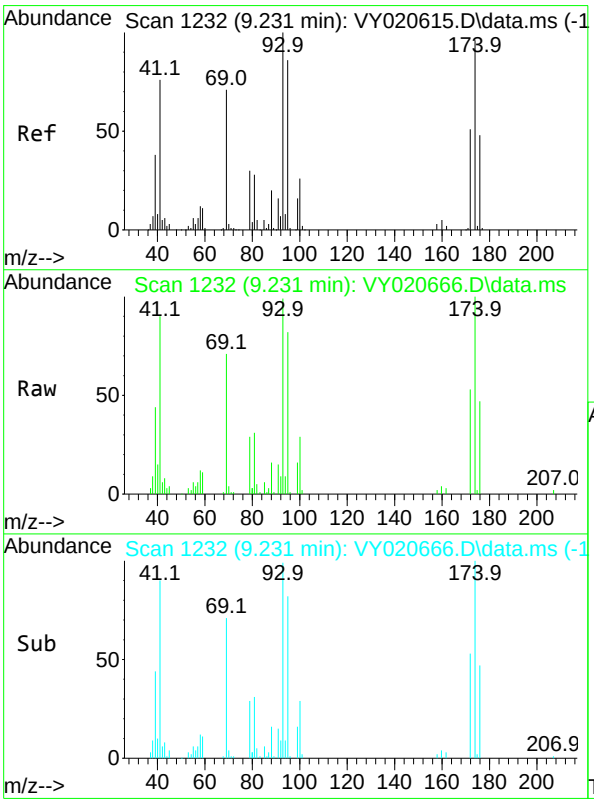

#45
1,2-Dichloropropane
Concen: 21.896 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 63 Resp: 45779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.1 | 25.9 | 38.9 |

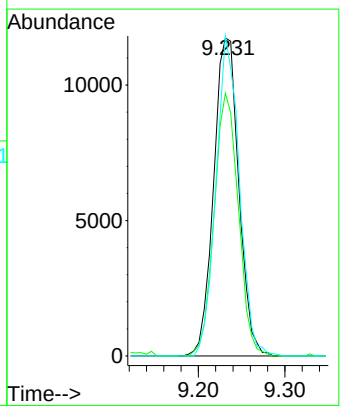


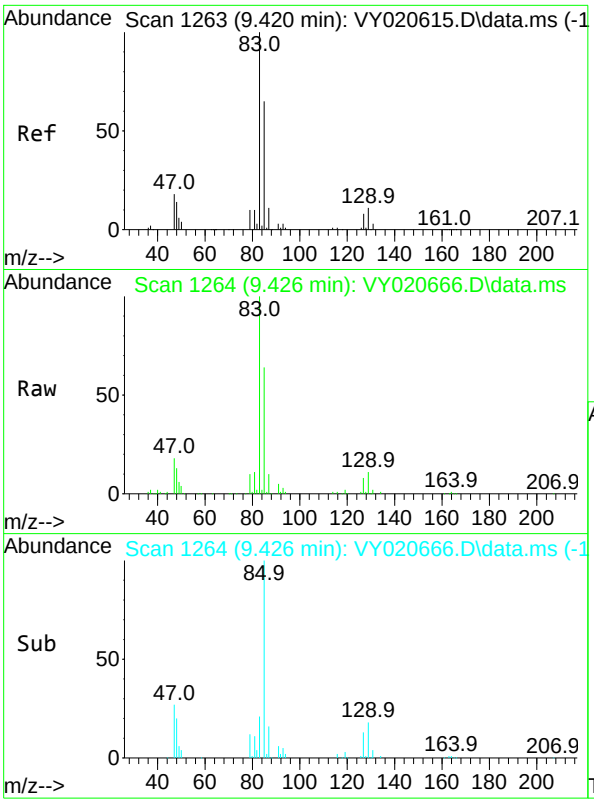




#46
Dibromomethane
Concen: 21.396 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 93 Resp: 23641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 79.3 | 66.7 | 100.1 |
| 174 | 93.6 | 77.8 | 116.6 |



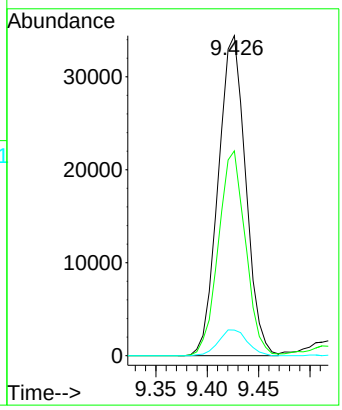


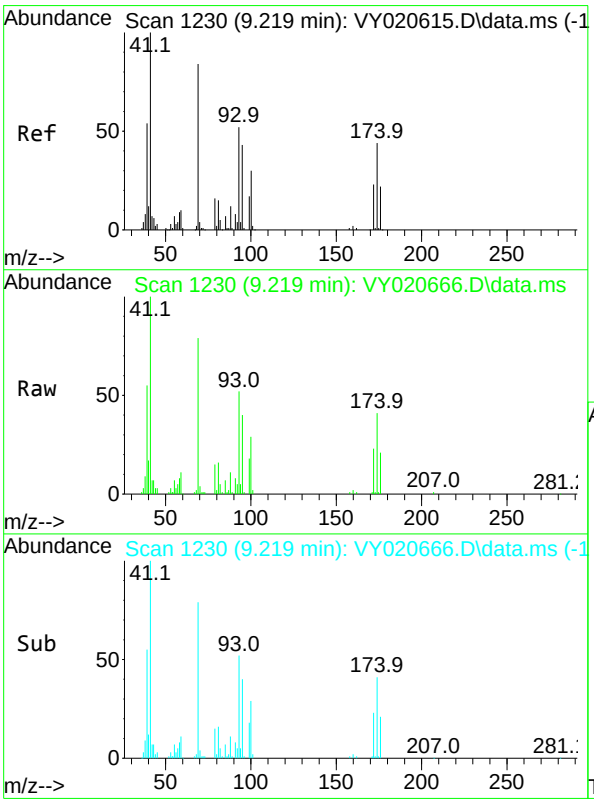

#47
Bromodichloromethane
Concen: 21.429 ug/l
RT: 9.426 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 83 Resp: 63960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 52.1 | 78.1 |
| 127 | 8.0 | 6.7 | 10.1 |

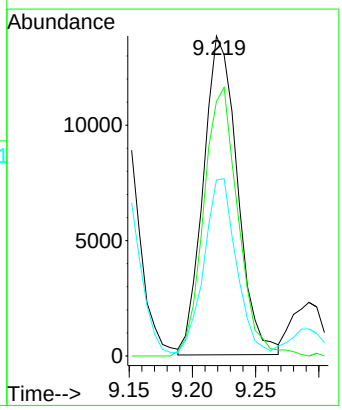


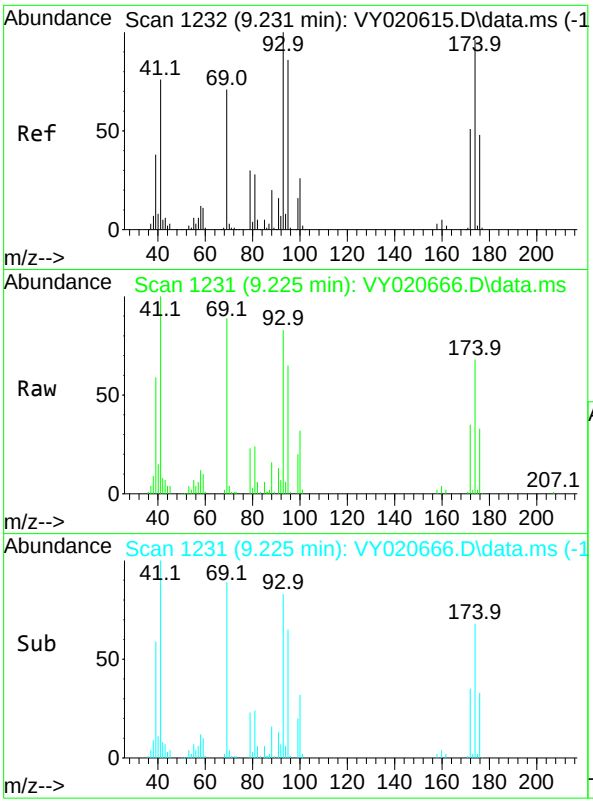




#48
Methyl methacrylate
Concen: 20.050 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 41 Resp: 25905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.6 | 67.2 | 100.8 |
| 39 | 51.4 | 42.2 | 63.4 |



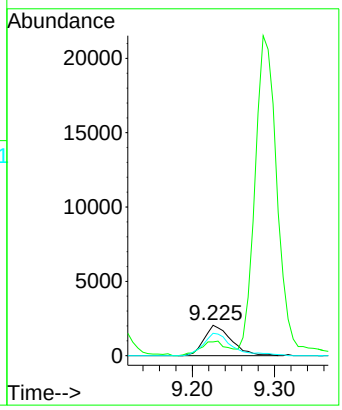


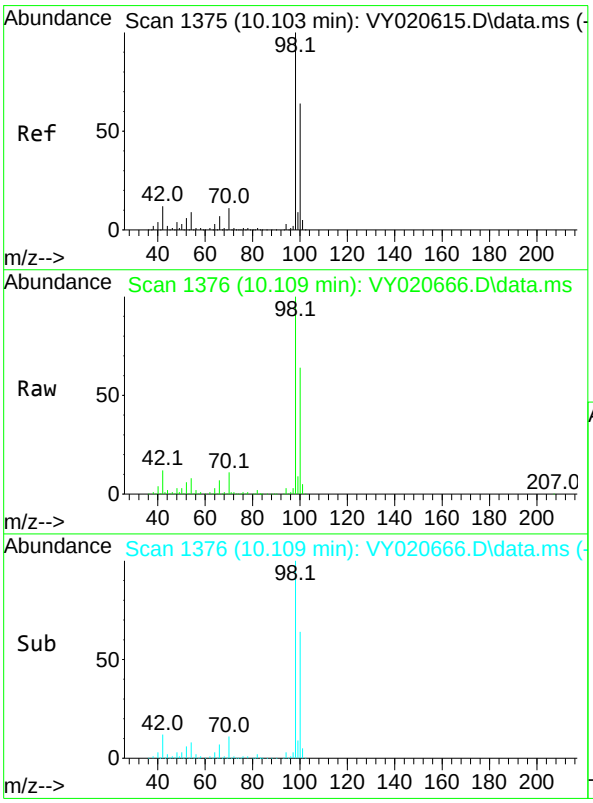

#49
1,4-Dioxane
Concen: 370.747 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 88 Resp: 4698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 45.8 | 27.6 | 41.4# |
| 58 | 78.0 | 61.7 | 92.5 |

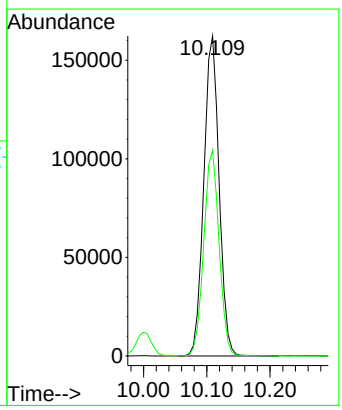


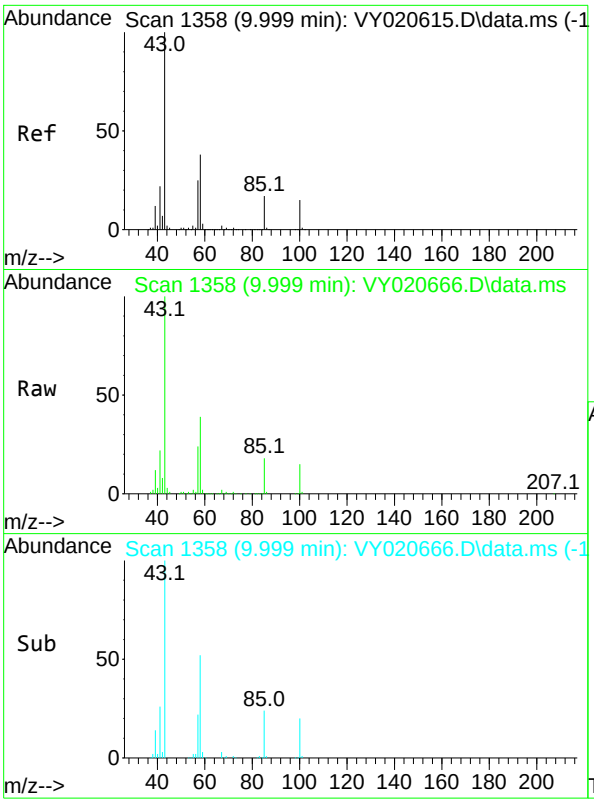




#50
Toluene-d8
Concen: 46.643 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 98 Resp: 273250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.1 | 78.1 |



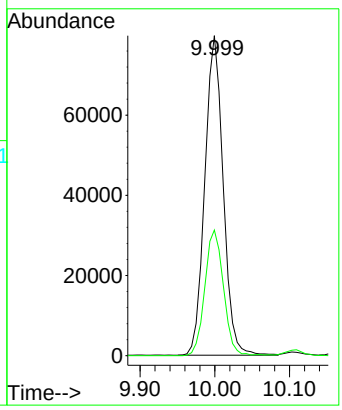


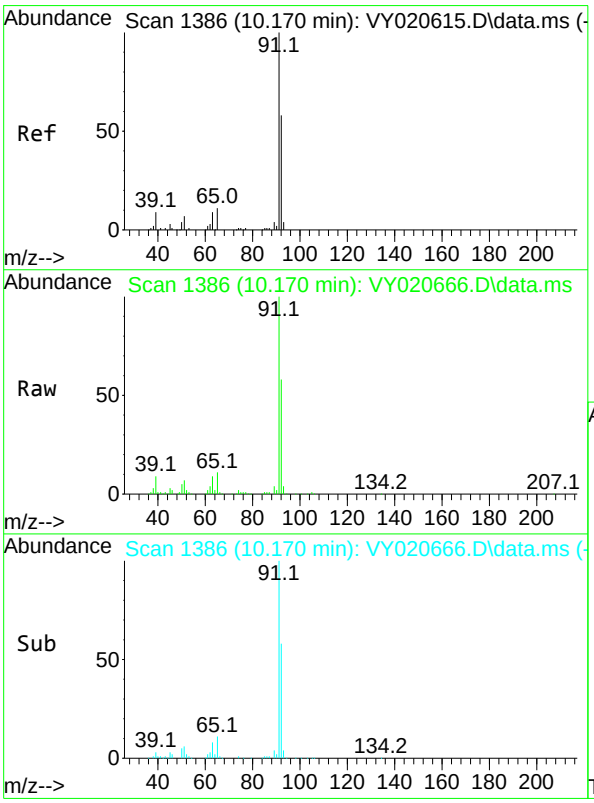

#51
4-Methyl-2-Pentanone
Concen: 94.726 ug/l
RT: 9.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 43 Resp: 135892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.9 | 31.4 | 47.2 |

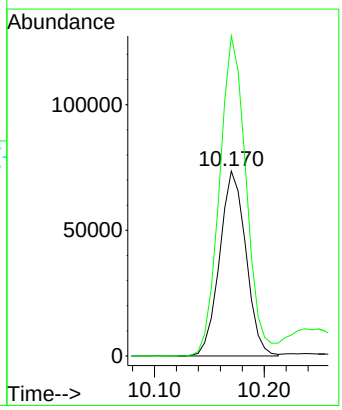


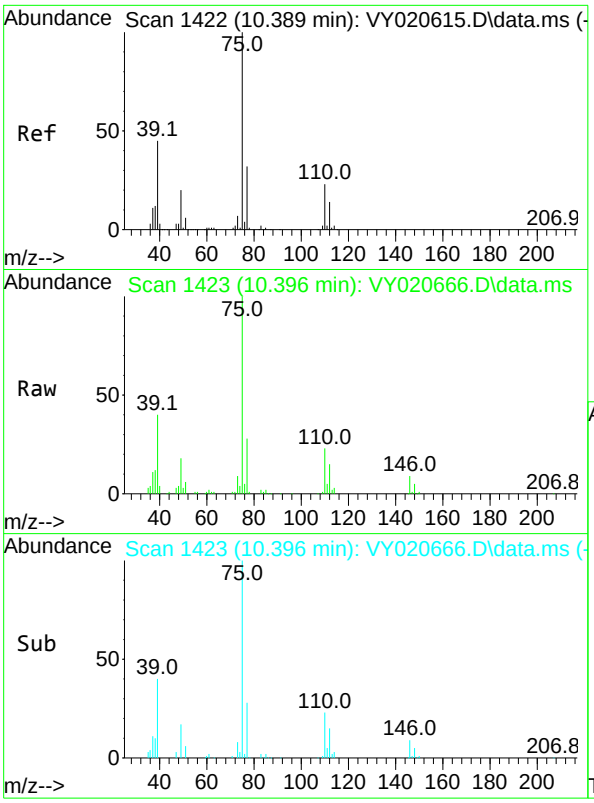




#52
Toluene
Concen: 22.055 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 92 Resp: 122615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.0 | 137.4 | 206.0 |



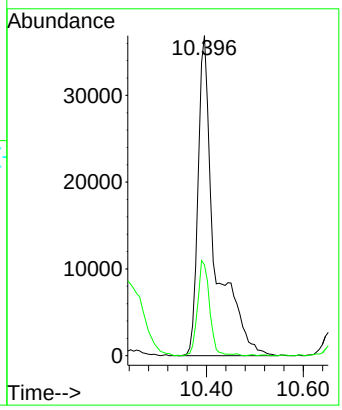


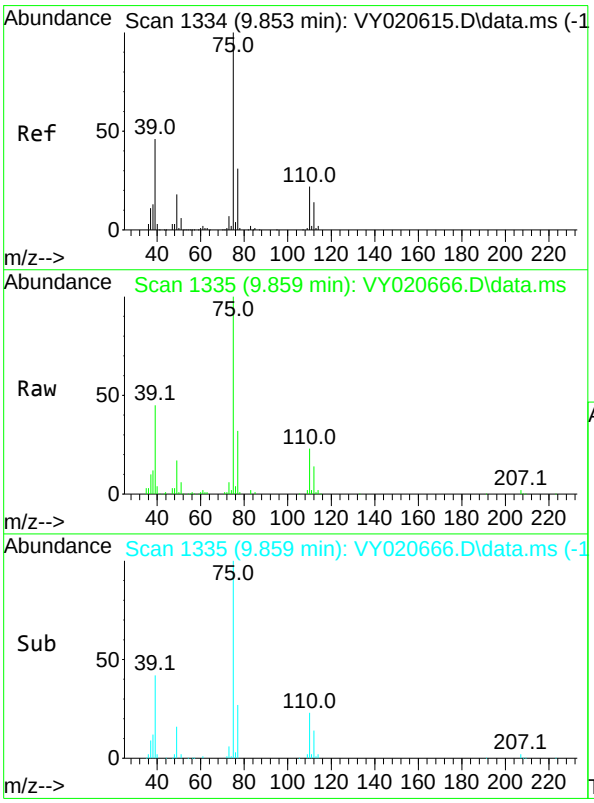

#53
t-1,3-Dichloropropene
Concen: 32.354 ug/l
RT: 10.396 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 75 Resp: 89982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 28.5 | 25.4 | 38.2 |

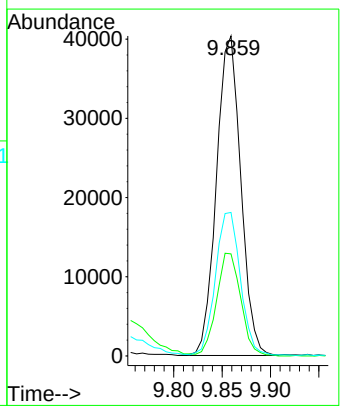


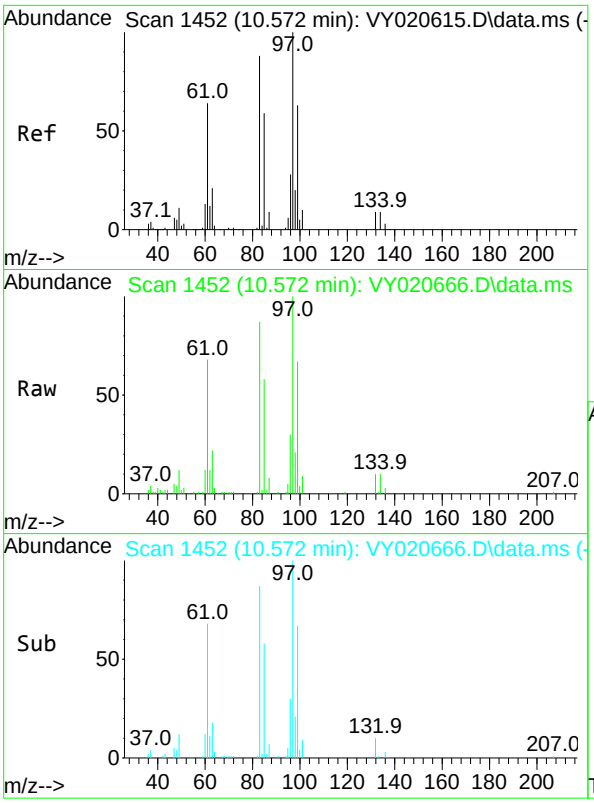




#54
cis-1,3-Dichloropropene
Concen: 21.413 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 75 Resp: 70570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.0 | 24.6 | 36.8 |
| 39 | 44.6 | 36.4 | 54.6 |



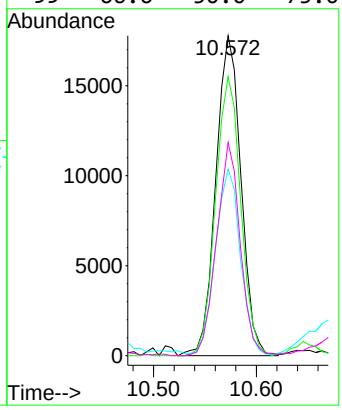


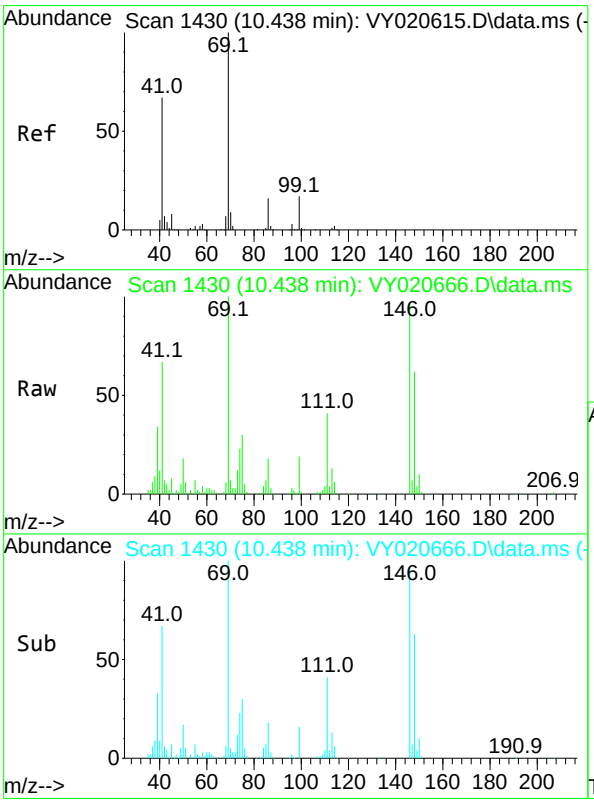

#55
1,1,2-Trichloroethane
Concen: 20.669 ug/l
RT: 10.572 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 97 Resp: 30195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 87.2 | 70.4 | 105.6 |
| 85 | 57.7 | 47.2 | 70.8 |
| 99 | 66.6 | 50.0 | 75.0 |

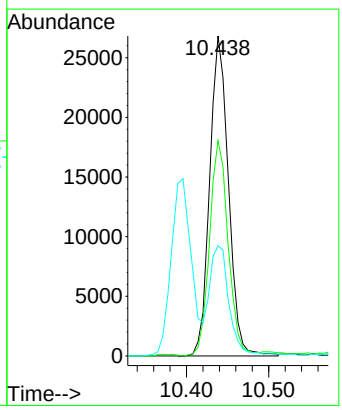


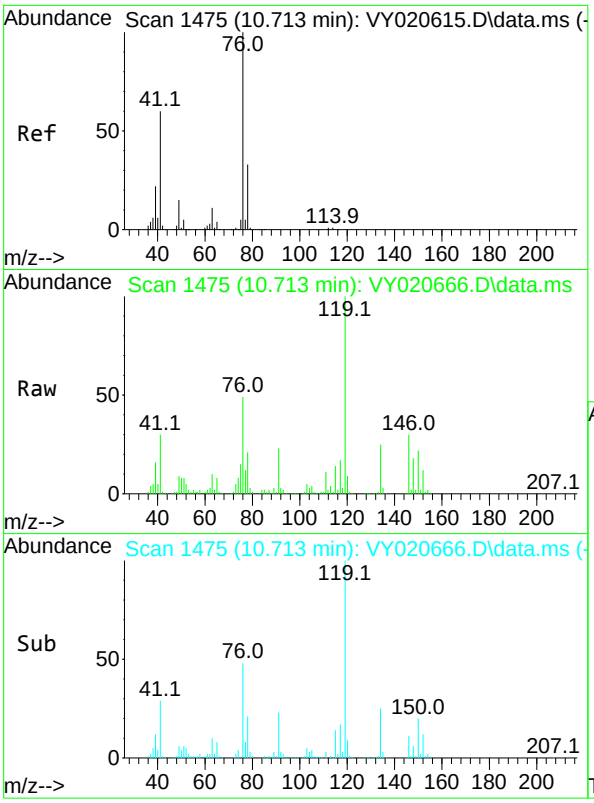




#56
Ethyl methacrylate
Concen: 20.060 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 69 Resp: 42515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.9 | 54.0 | 81.0 |
| 39 | 35.1 | 27.9 | 41.9 |



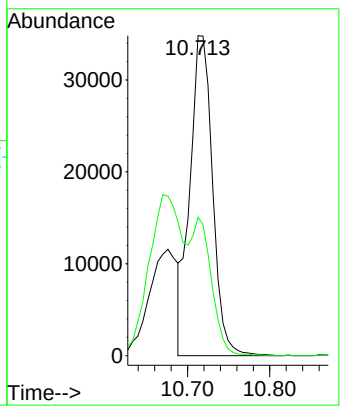


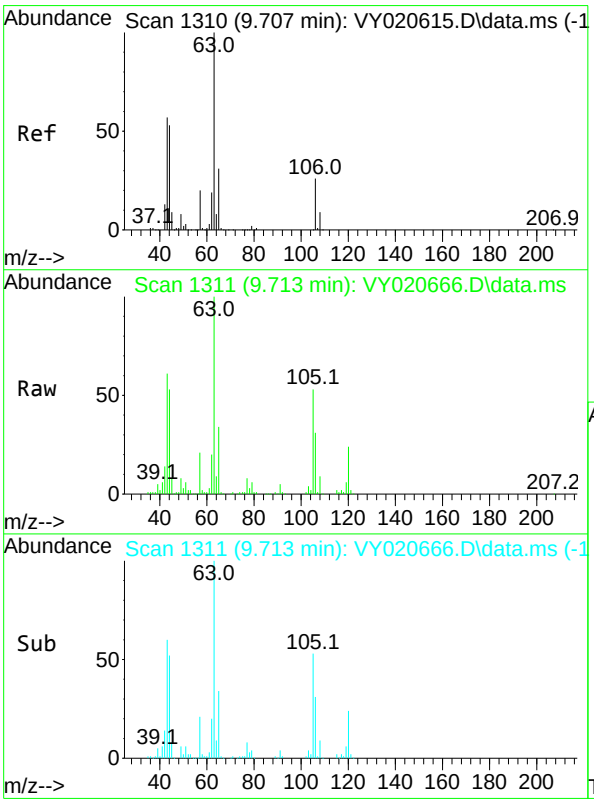

#57
1,3-Dichloropropane
Concen: 25.621 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 76 Resp: 66722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 0.0 | 25.8 | 38.8# |

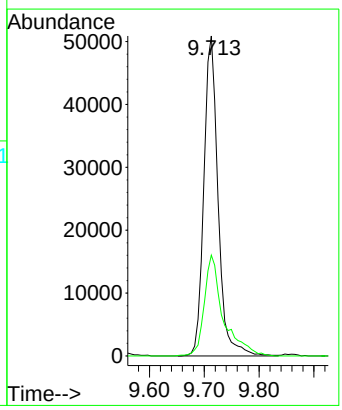


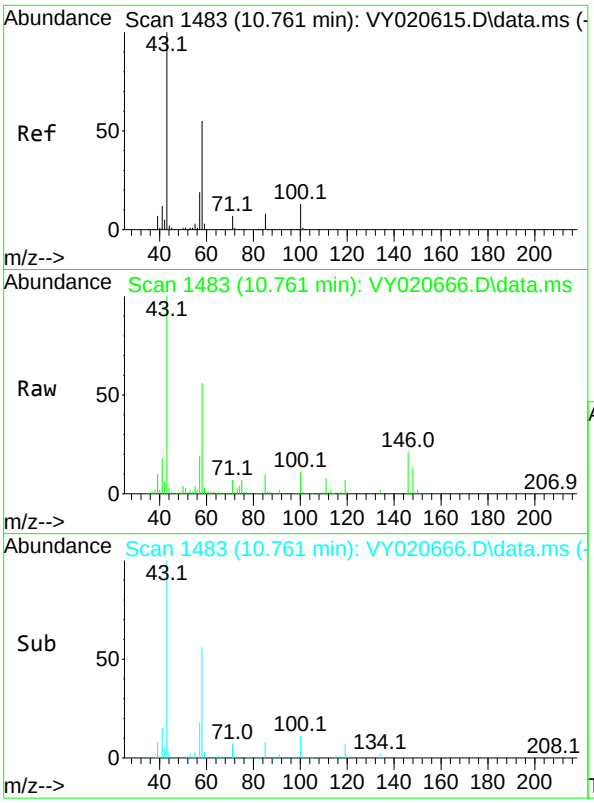




#58
2-Chloroethyl Vinyl ether
Concen: 102.533 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 63 Resp: 91434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 42.0 | 21.5 | 32.3# |



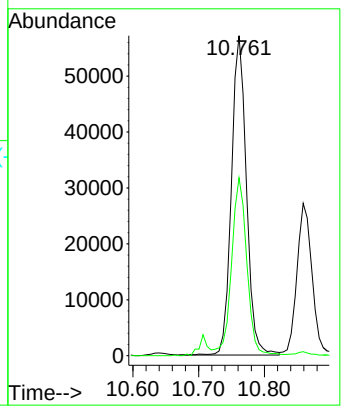


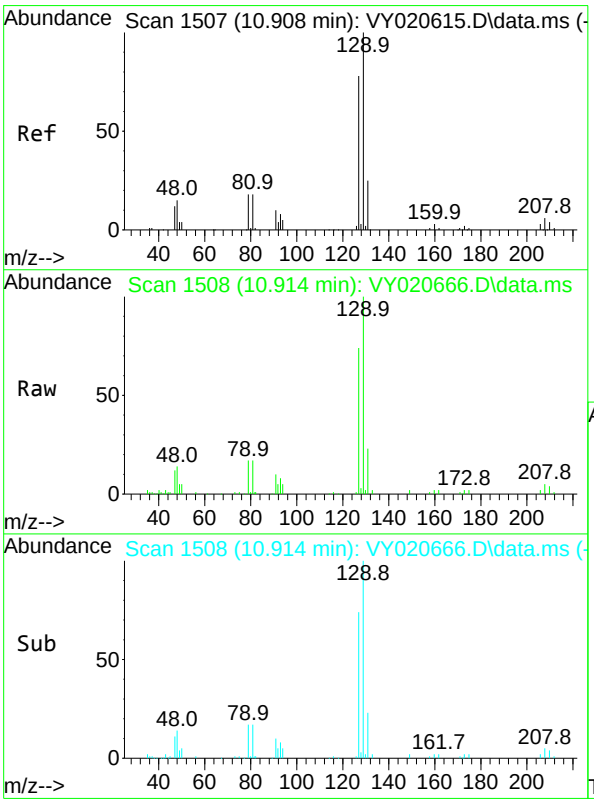

#59
2-Hexanone
Concen: 98.464 ug/l
RT: 10.761 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 43 Resp: 90691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.8 | 27.2 | 81.6 |

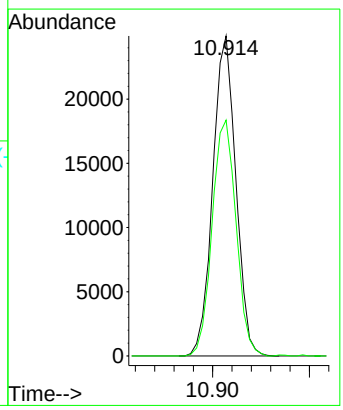


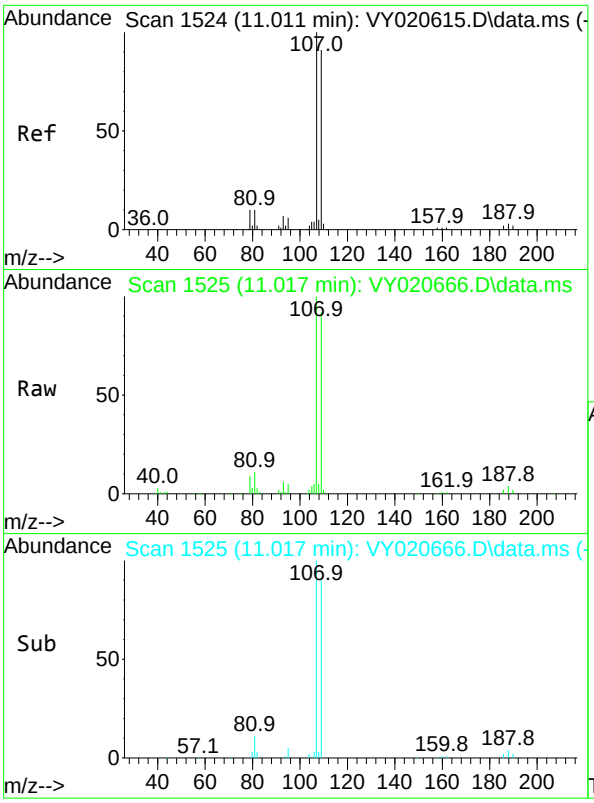




#60
Dibromochloromethane
Concen: 21.080 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:129 Resp: 41185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.6 | 38.1 | 114.3 |



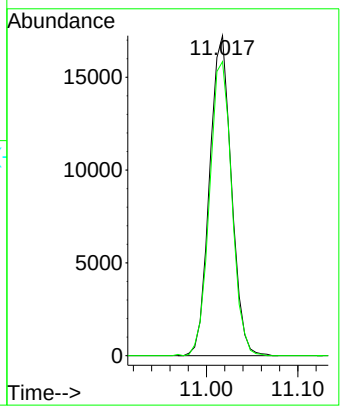


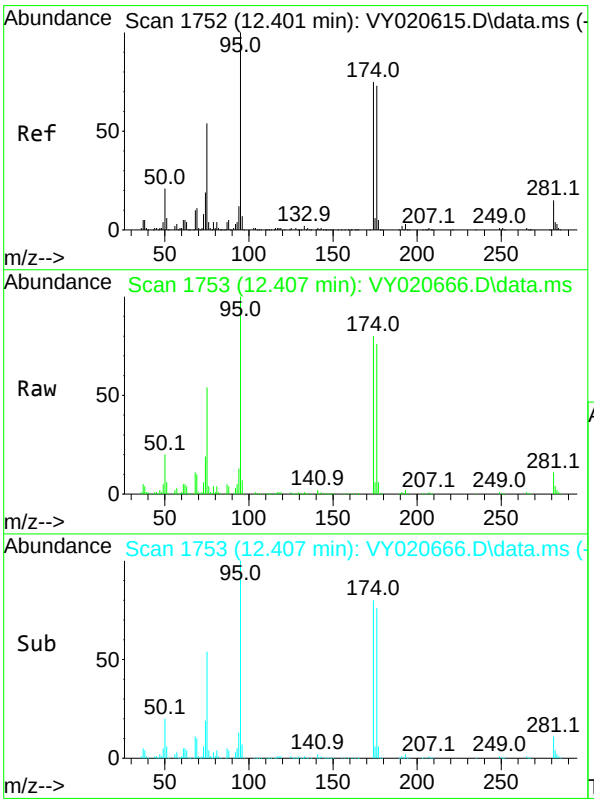

#61
1,2-Dibromoethane
Concen: 21.018 ug/l
RT: 11.017 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:107 Resp: 28561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.7 | 75.4 | 113.2 |

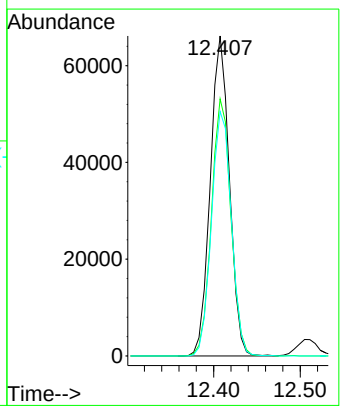


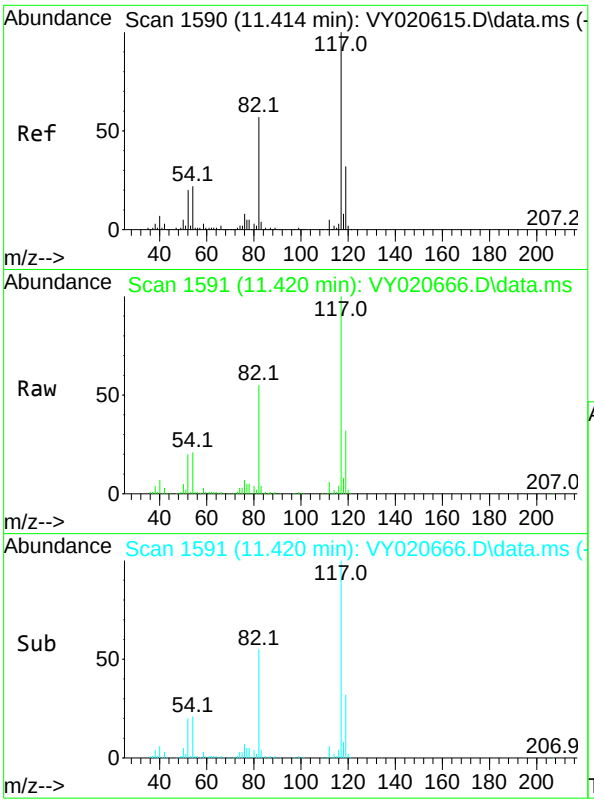




#62
4-Bromofluorobenzene
Concen: 44.220 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 95 Resp: 101336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.8 | 0.0 | 161.8 |
| 176 | 79.2 | 0.0 | 156.6 |



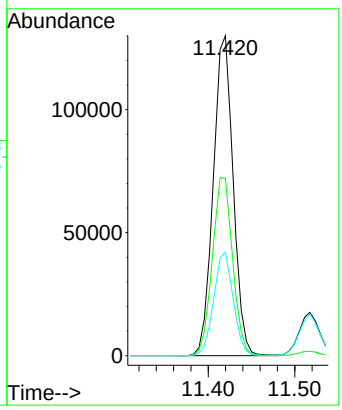


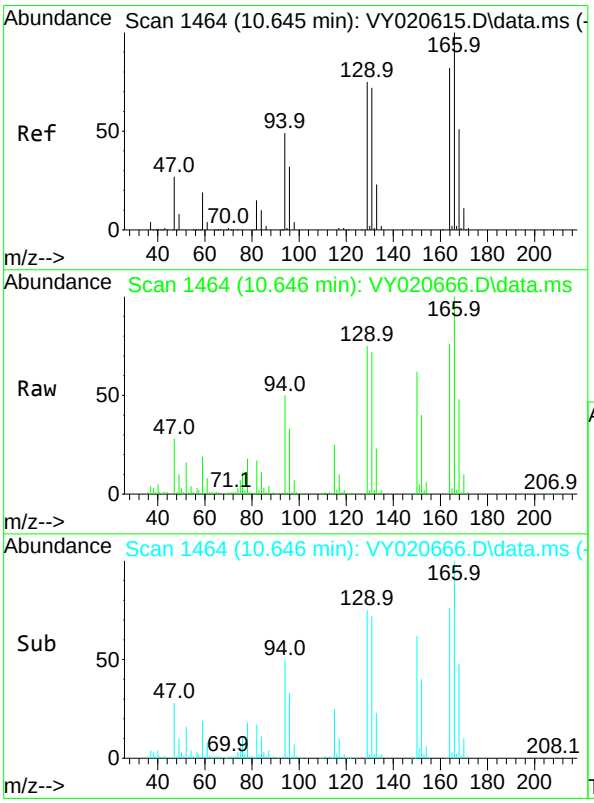

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:117 Resp: 207752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 55.4 | 45.8 | 68.6 |
| 119 | 32.4 | 25.3 | 37.9 |

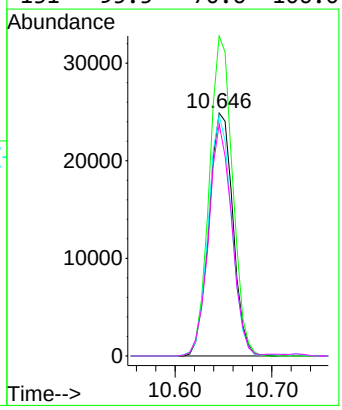


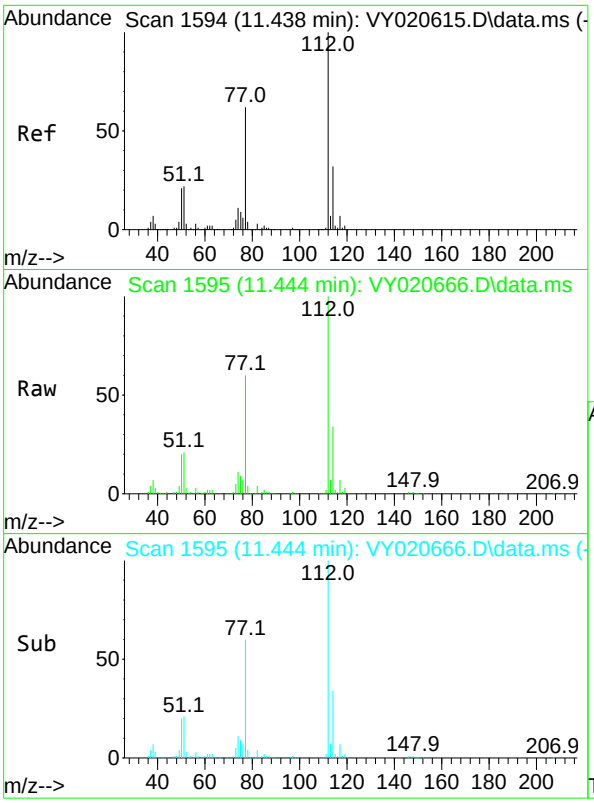




#64
Tetrachloroethene
Concen: 21.919 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:164 Resp: 42833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.8 | 97.9 | 146.9 |
| 129 | 99.2 | 73.4 | 110.0 |
| 131 | 95.5 | 70.6 | 106.0 |



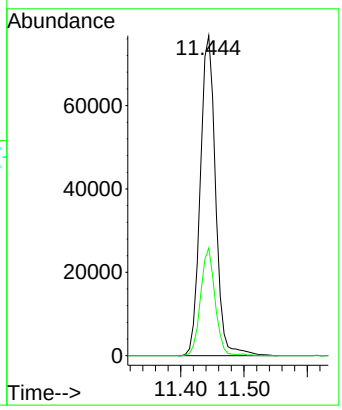


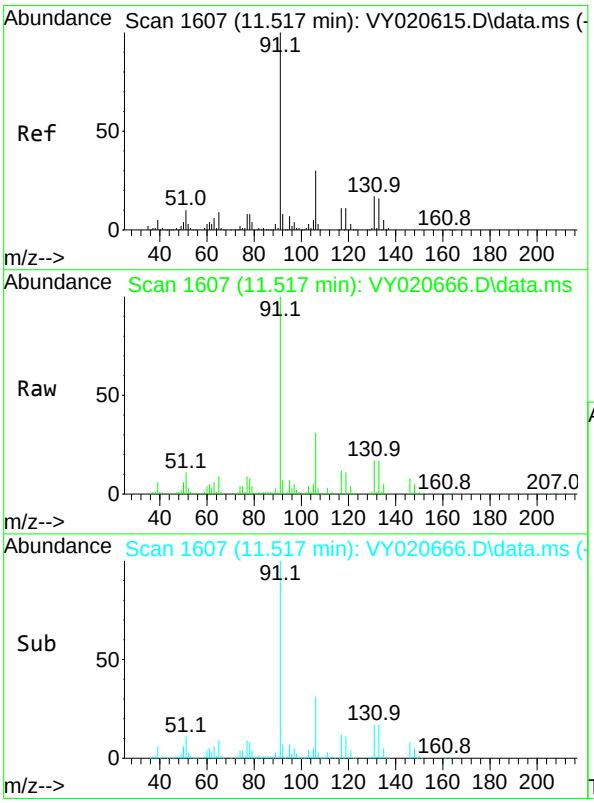

#65
Chlorobenzene
Concen: 22.264 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:112 Resp: 129331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.6 | 26.0 | 39.0 |

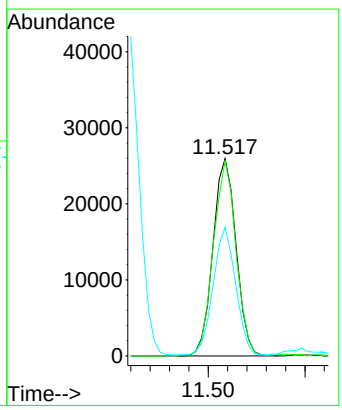


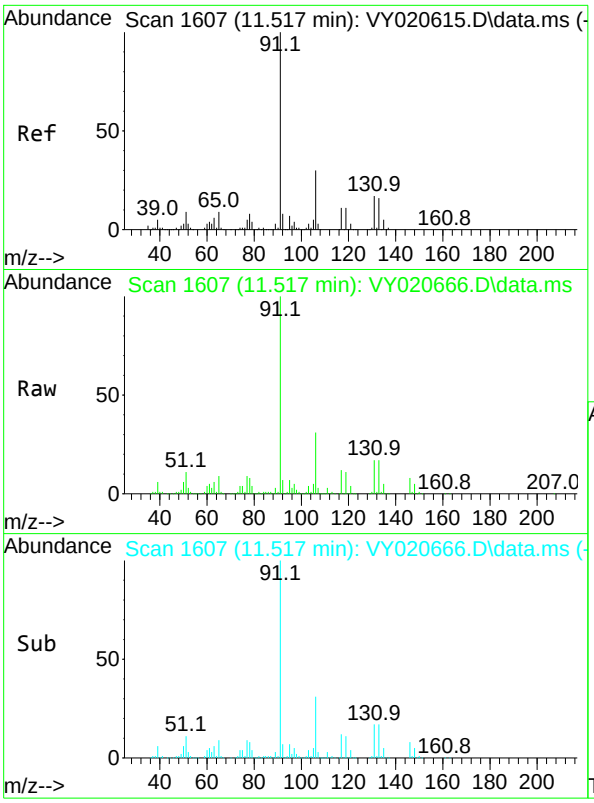




#66
1,1,1,2-Tetrachloroethane
Concen: 21.675 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:131 Resp: 43055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.1 | 46.8 | 140.3 |
| 119 | 64.4 | 31.8 | 95.3 |



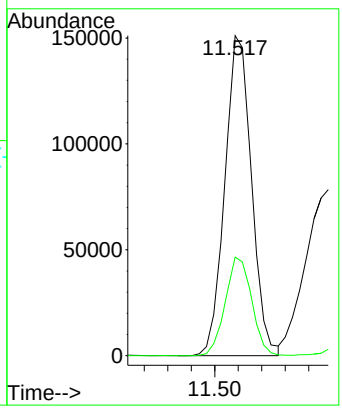


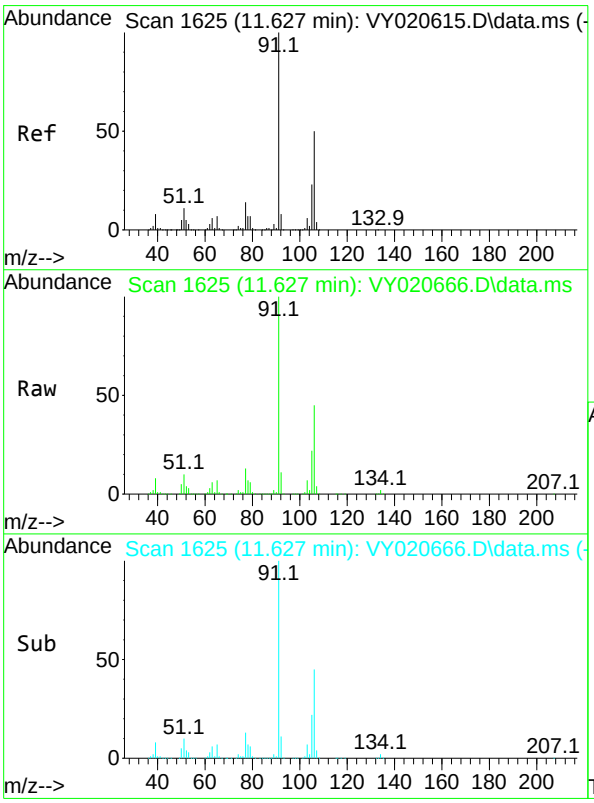

#67
Ethyl Benzene
Concen: 22.248 ug/l
RT: 11.517 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 91 Resp: 238433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.8 | 23.9 | 35.9 |

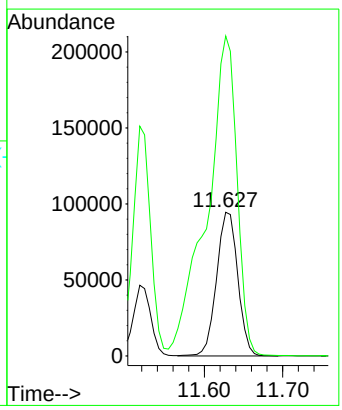


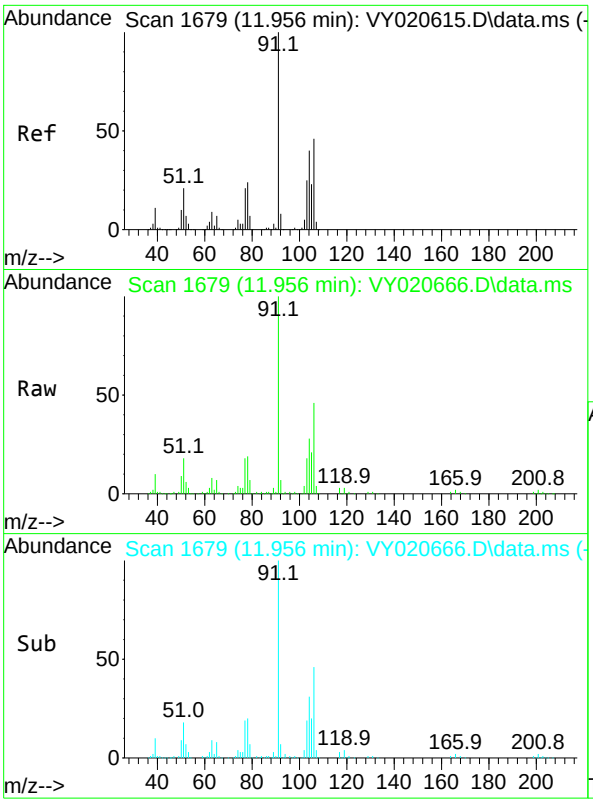




#68
m/p-Xylenes
Concen: 44.684 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:106 Resp: 178050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 314.7 | 165.0 | 247.4# |



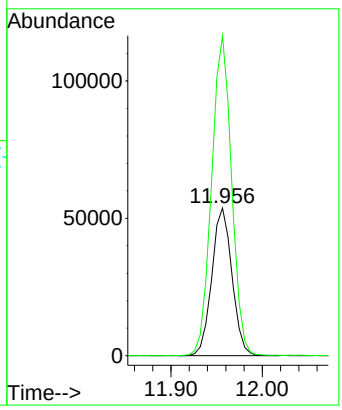


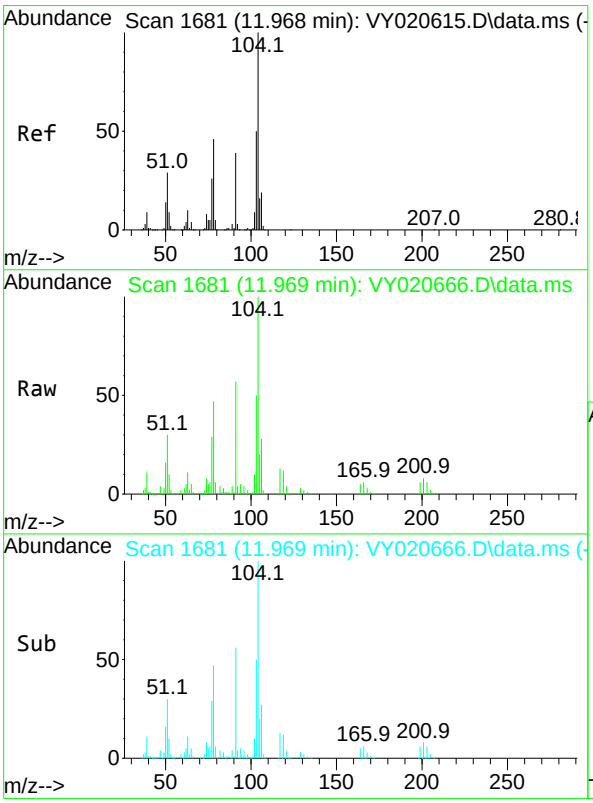

#69
o-Xylene
Concen: 22.185 ug/l
RT: 11.956 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:106 Resp: 82478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.3 | 108.4 | 325.2 |

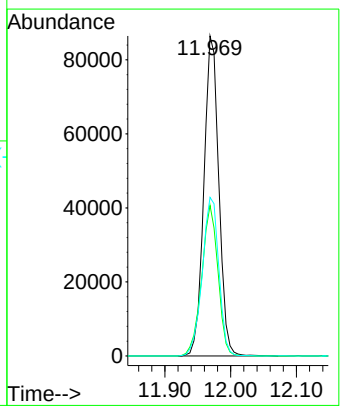


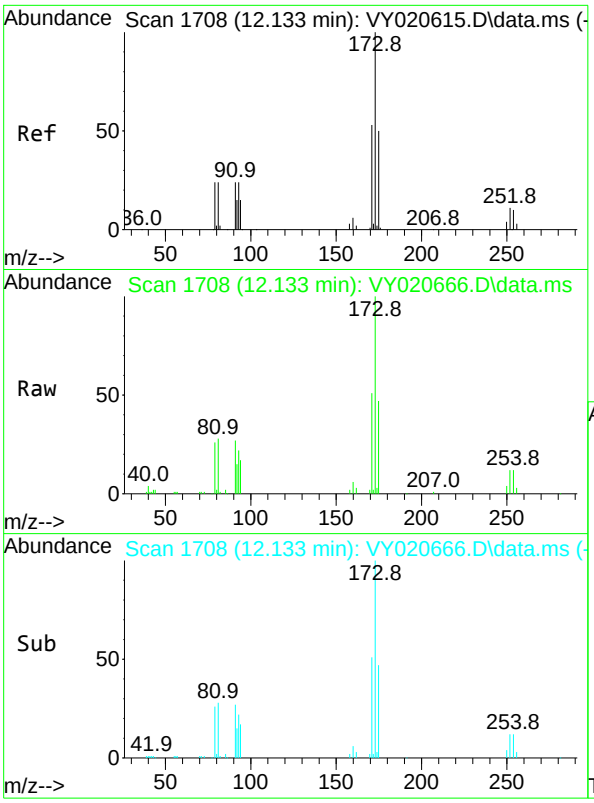




#70
Styrene
Concen: 21.974 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:104 Resp: 136494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.3 | 41.6 | 62.4 |
| 103 | 54.9 | 43.7 | 65.5 |



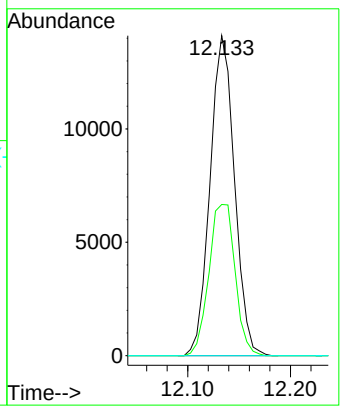


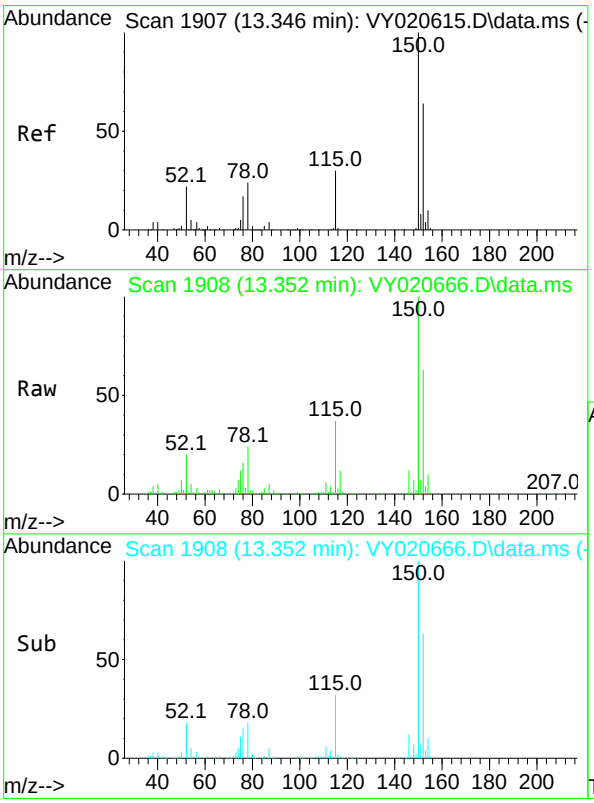

#71
Bromoform
Concen: 20.889 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:173 Resp: 23329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.7 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |

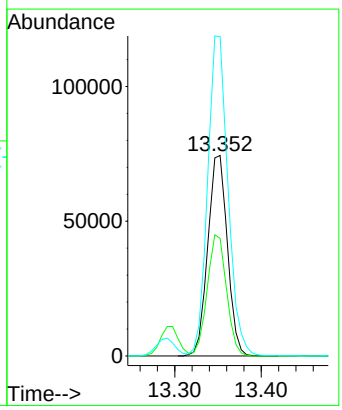


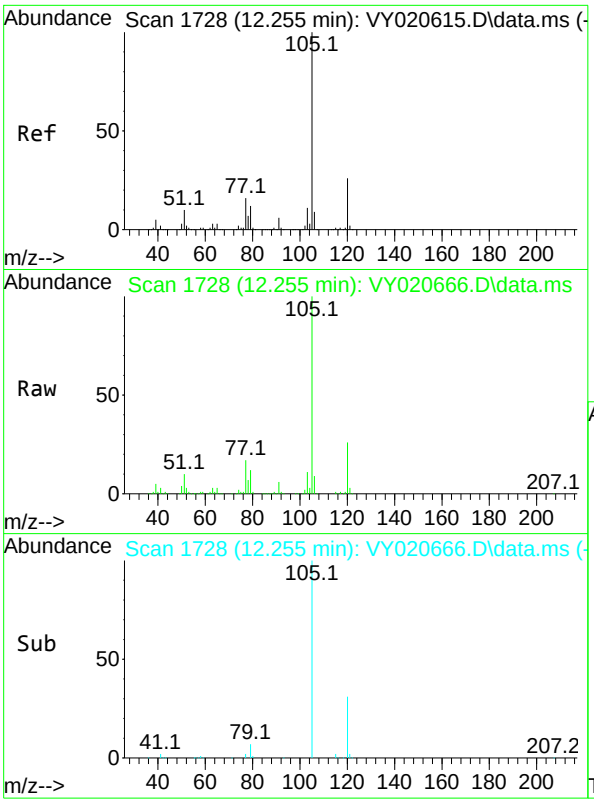




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:152 Resp: 116933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.5 | 30.2 | 90.6 |
| 150 | 165.3 | 0.0 | 355.4 |



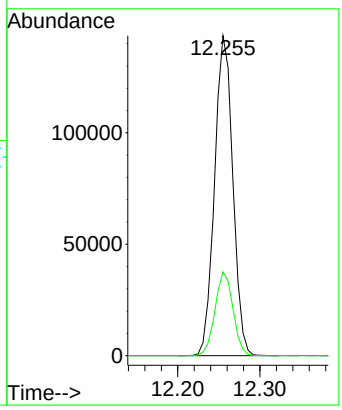


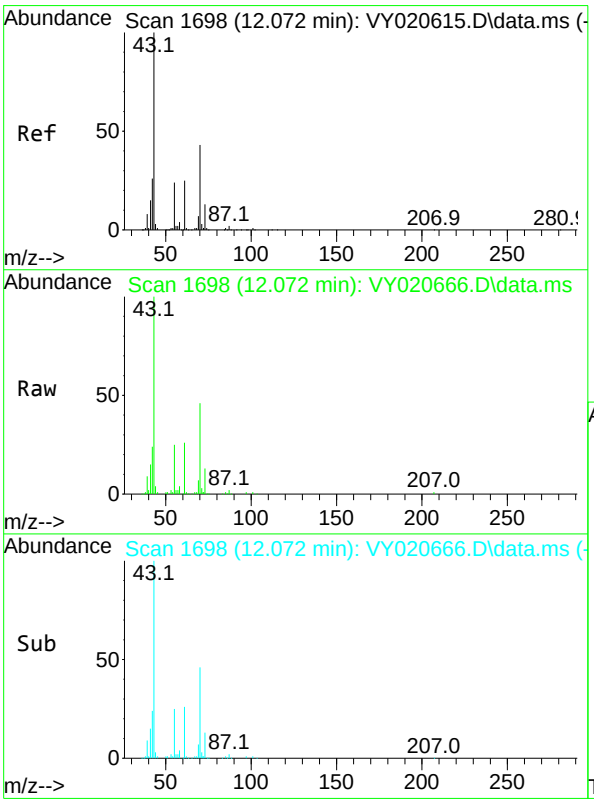

#73
Isopropylbenzene
Concen: 21.727 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:105 Resp: 221703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.7 | 13.1 | 39.1 |

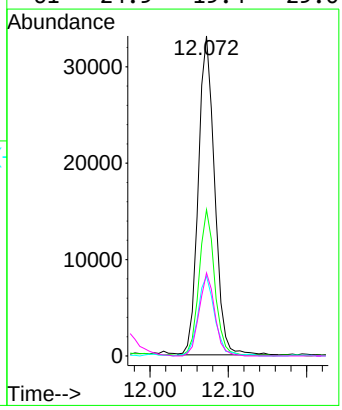


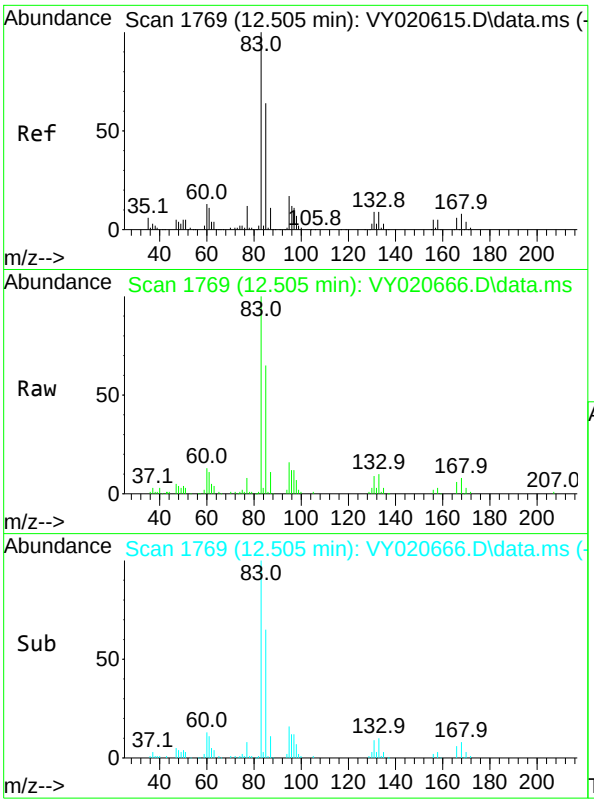




#74
N-amyl acetate
Concen: 20.036 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 43 Resp: 47848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.5 | 34.2 | 51.2 |
| 55 | 26.1 | 19.6 | 29.4 |
| 61 | 24.9 | 19.4 | 29.0 |



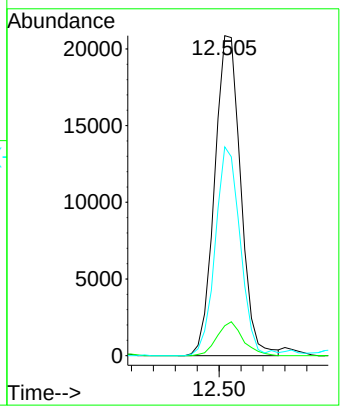


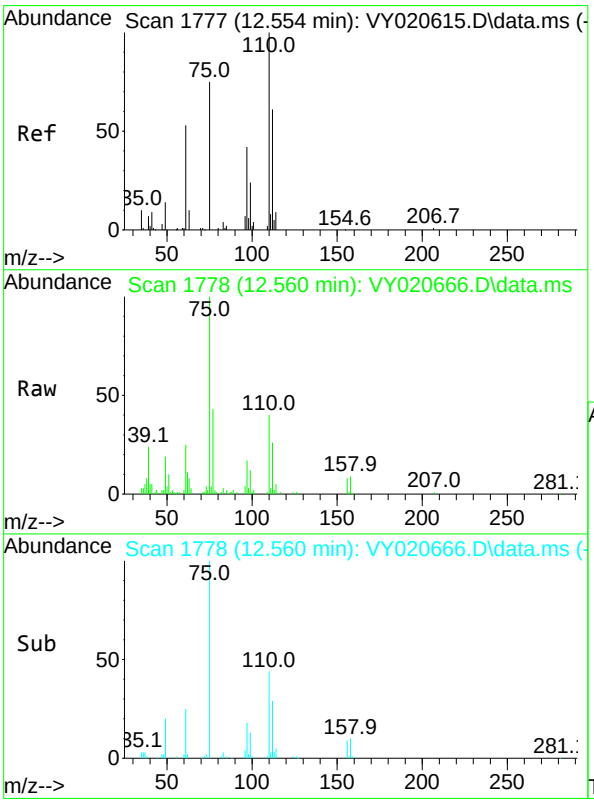

#75
1,1,2,2-Tetrachloroethane
Concen: 20.778 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 83 Resp: 34416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.5 | 5.2 | 15.6 |
| 85 | 62.7 | 32.5 | 97.4 |

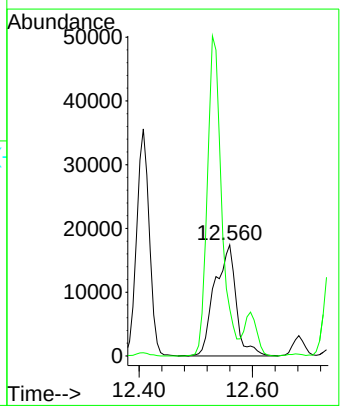


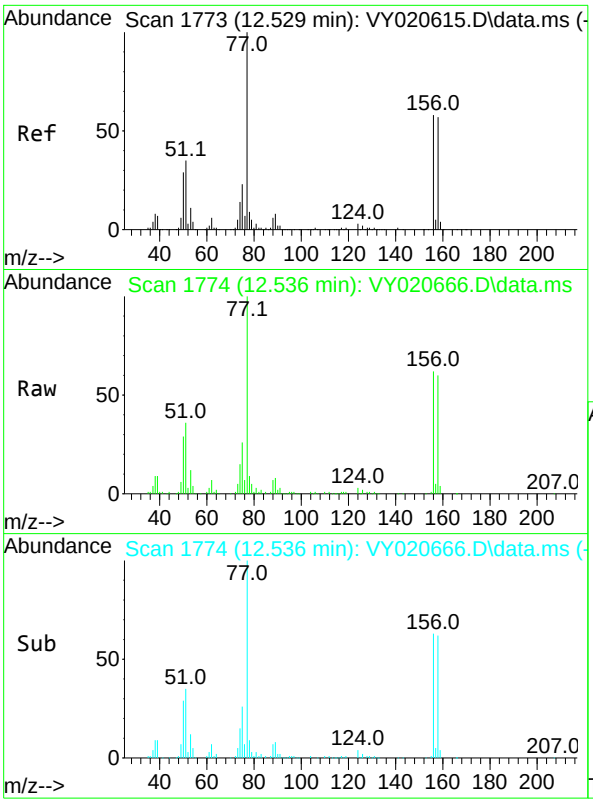




#76
1,2,3-Trichloropropane
Concen: 37.617 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 75 Resp: 45694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



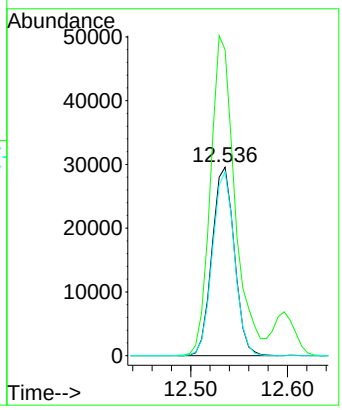


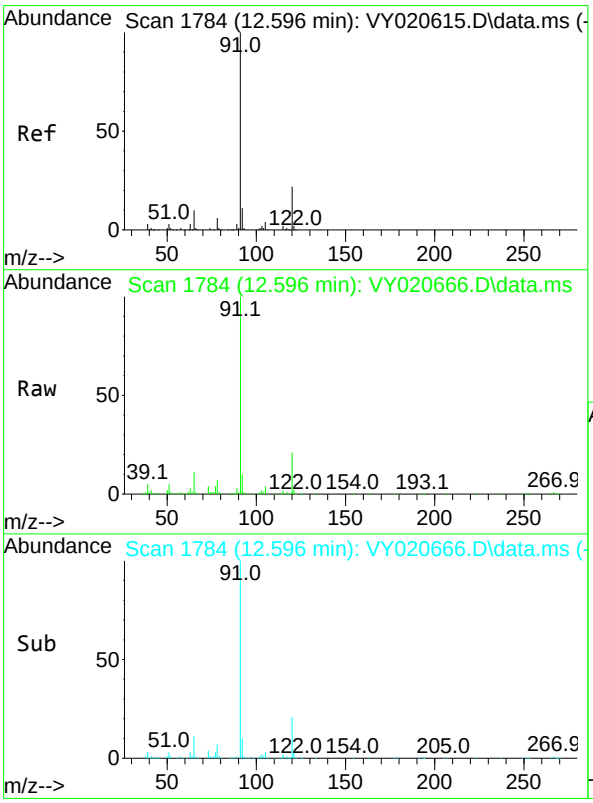

#77
Bromobenzene
Concen: 21.282 ug/l
RT: 12.536 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:156 Resp: 47306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 185.1 | 94.2 | 282.4 |
| 158 | 96.5 | 48.9 | 146.6 |

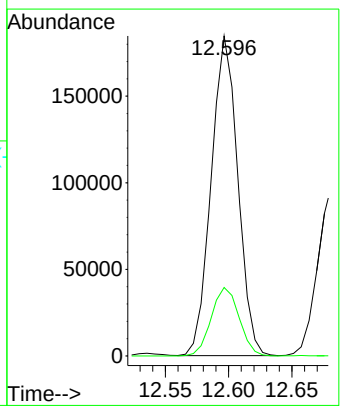


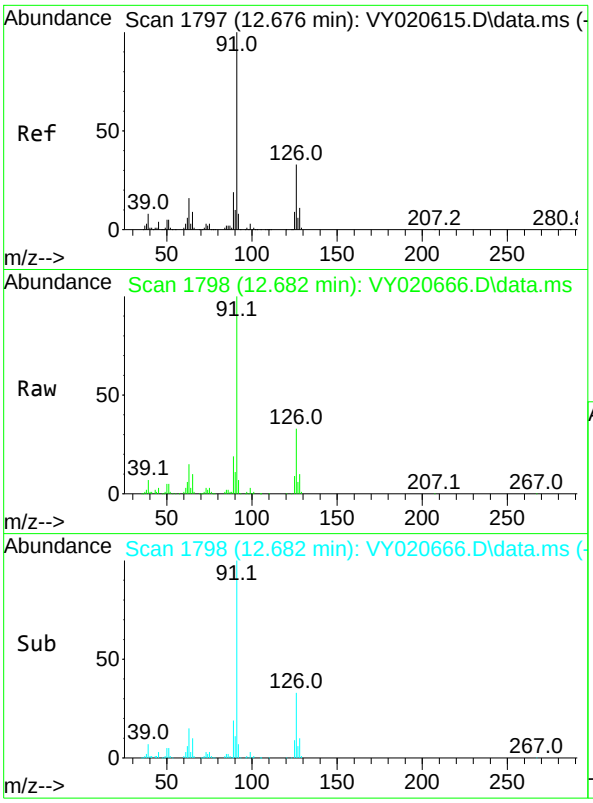




#78
n-propylbenzene
Concen: 21.981 ug/l
RT: 12.596 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 91 Resp: 270238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.4 | 11.1 | 33.1 |



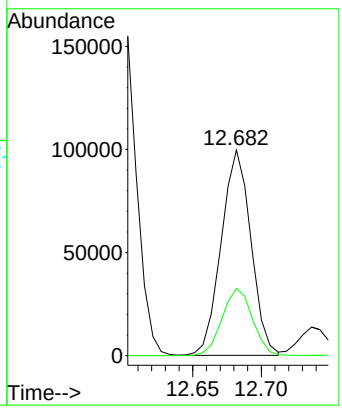


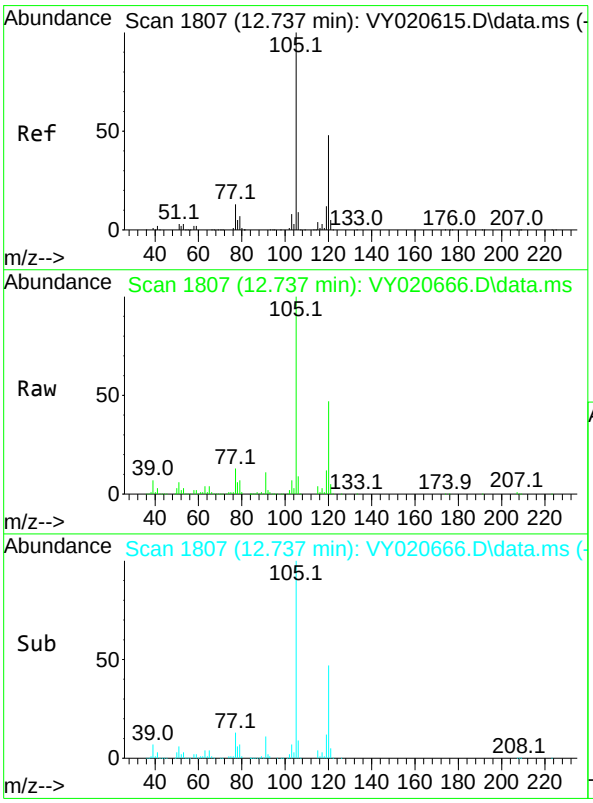

#79
2-Chlorotoluene
Concen: 21.727 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 91 Resp: 150281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.4 | 16.6 | 49.7 |

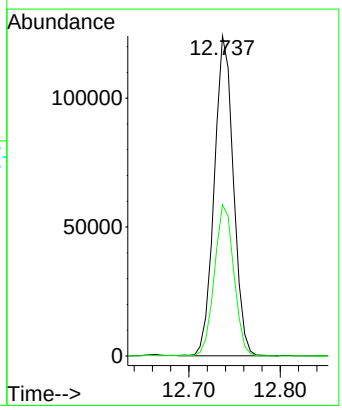


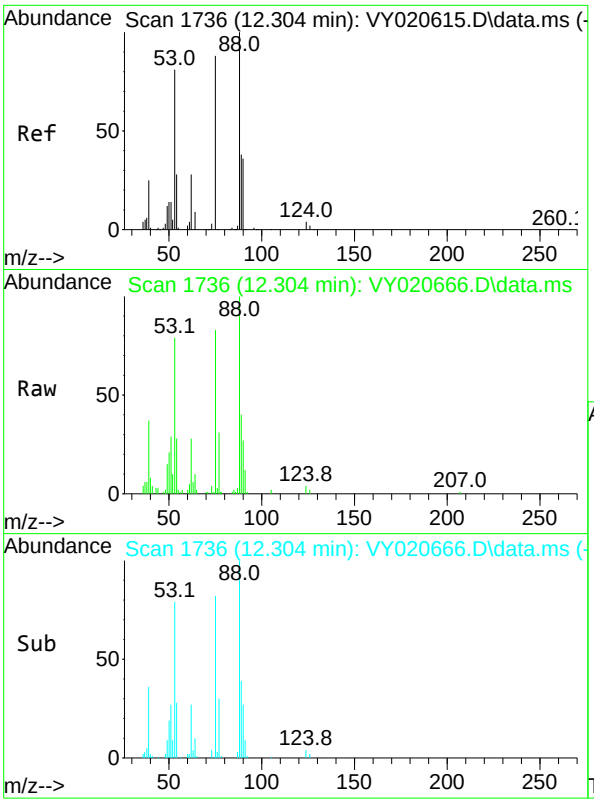




#80
1,3,5-Trimethylbenzene
Concen: 21.827 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:105 Resp: 180725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.0 | 23.9 | 71.7 |



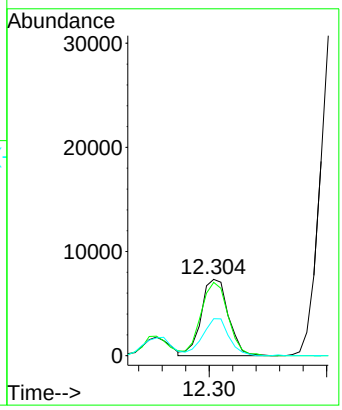


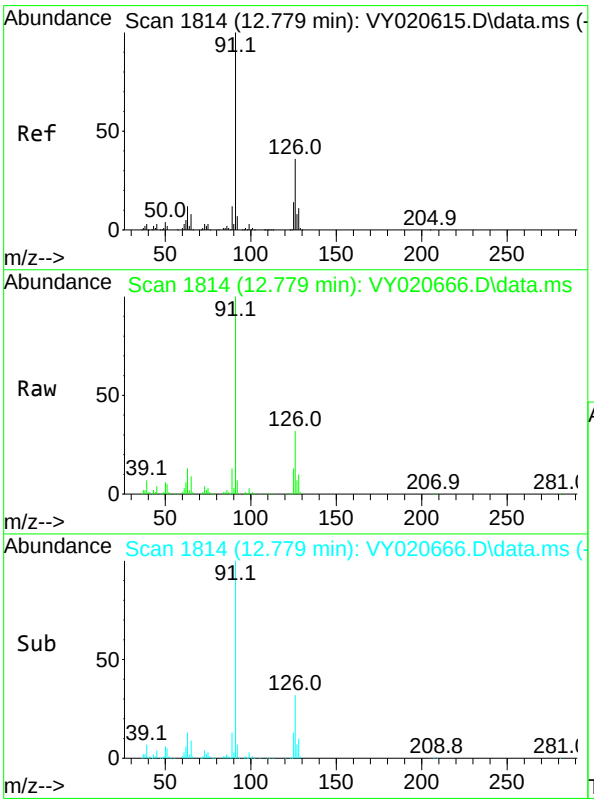

#81
trans-1,4-Dichloro-2-butene
Concen: 20.297 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 75 Resp: 11746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.4 | 75.4 | 113.2 |
| 89 | 46.6 | 37.0 | 55.4 |

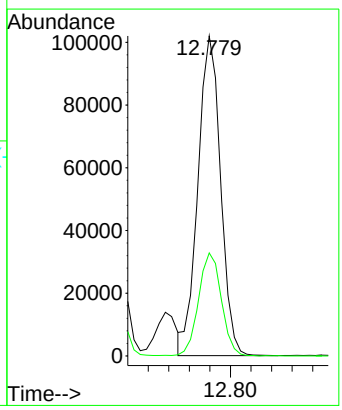


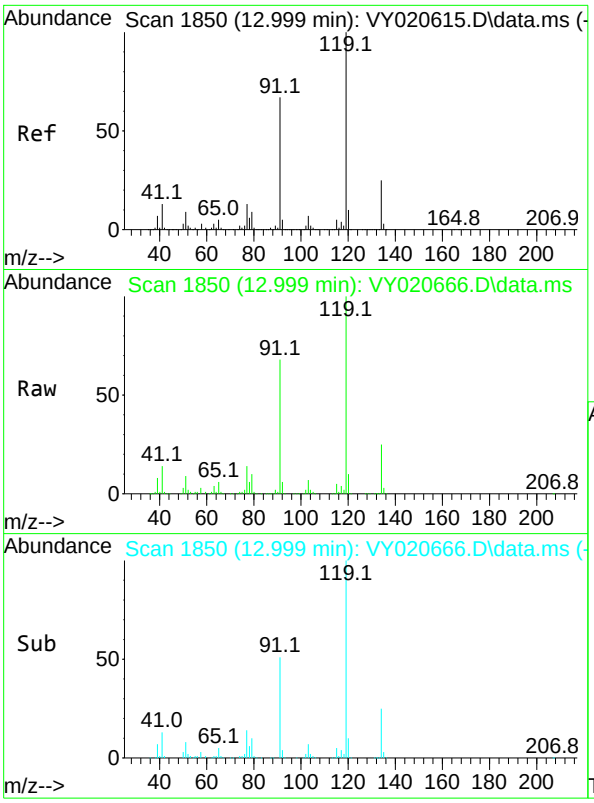




#82
4-Chlorotoluene
Concen: 21.784 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 91 Resp: 156322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.5 | 16.6 | 49.7 |



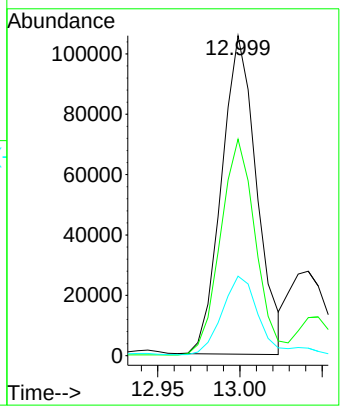


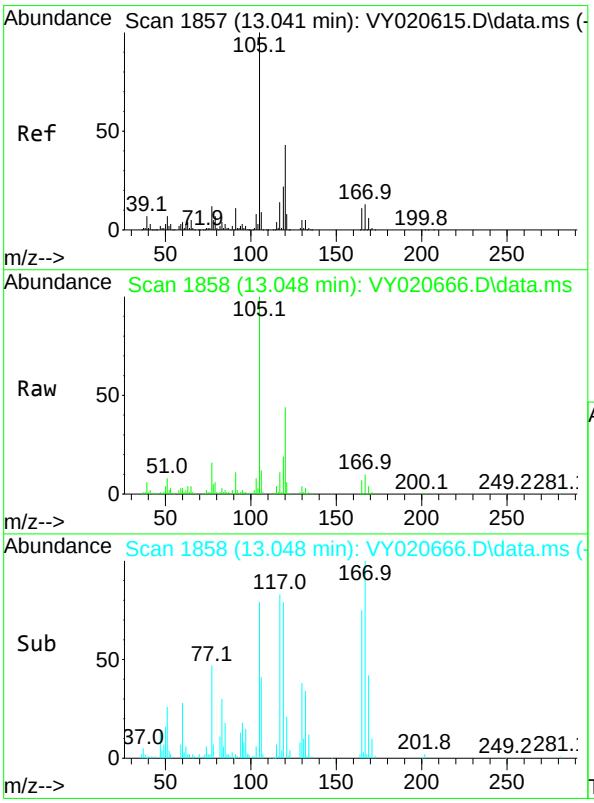

#83
tert-Butylbenzene
Concen: 20.934 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:119 Resp: 156978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 68.0 | 32.9 | 98.6 |
| 134 | 27.6 | 13.1 | 39.1 |

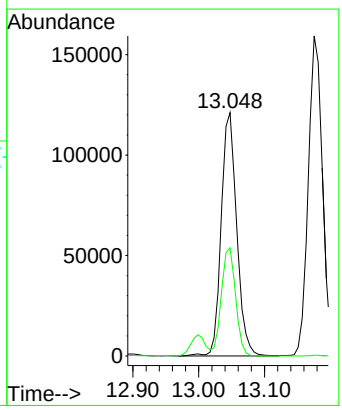


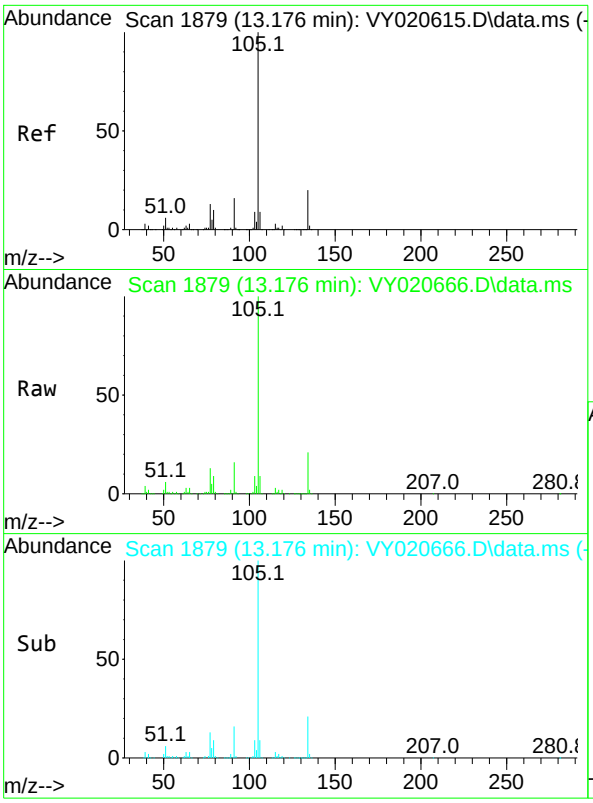




#84
1,2,4-Trimethylbenzene
Concen: 24.542 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:105 Resp: 199323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 40.6 | 21.8 | 65.4 |



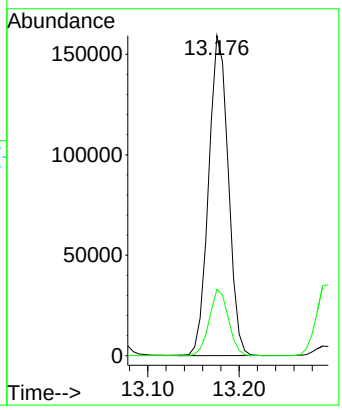


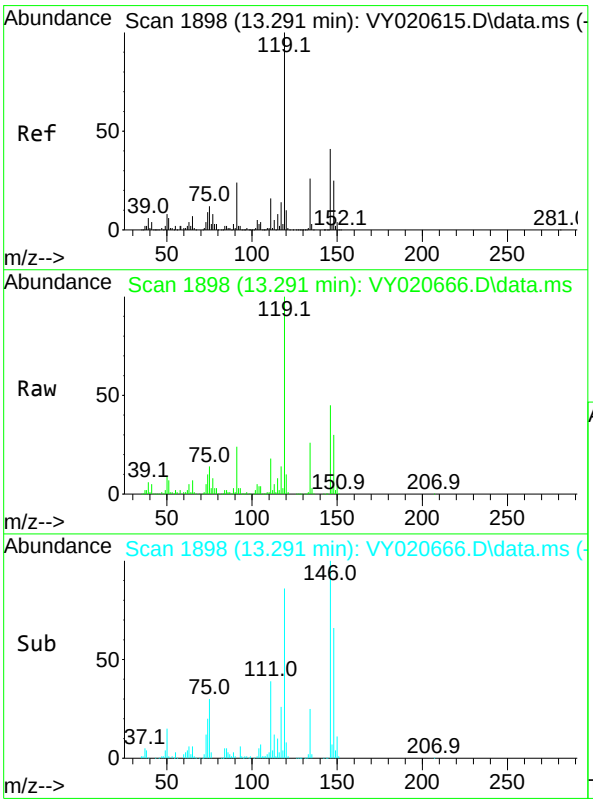

#85
sec-Butylbenzene
Concen: 21.761 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:105 Resp: 237258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.2 | 10.0 | 30.0 |

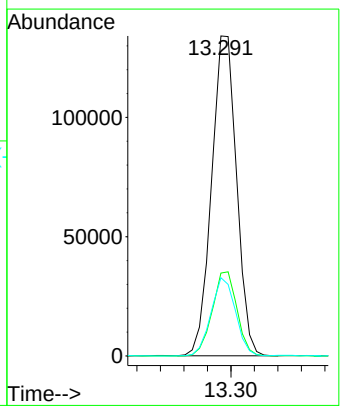


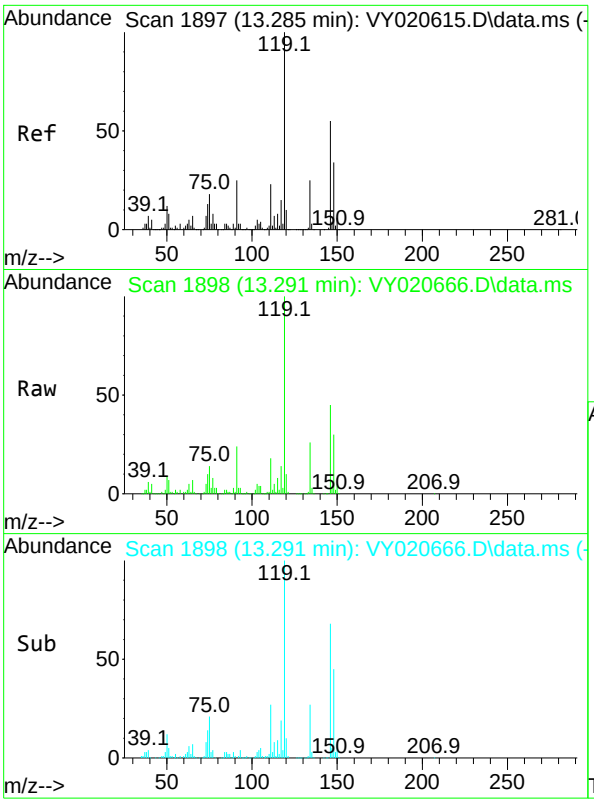




#86
p-Isopropyltoluene
Concen: 22.057 ug/l
RT: 13.291 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:119 Resp: 198272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.2 | 12.9 | 38.6 |
| 91 | 24.1 | 12.1 | 36.3 |



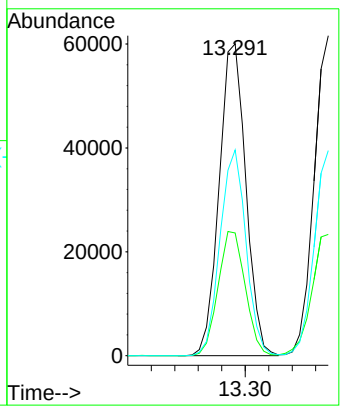


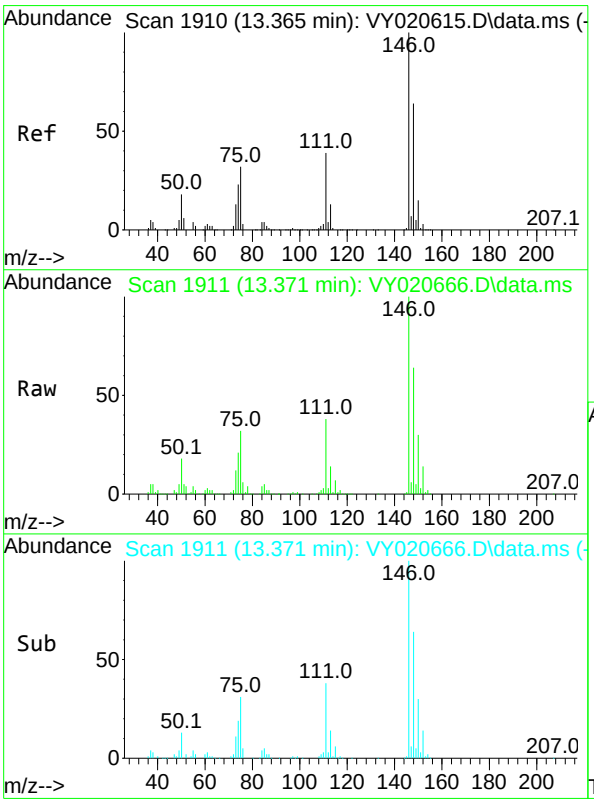

#87
1,3-Dichlorobenzene
Concen: 21.610 ug/l
RT: 13.291 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:146 Resp: 94820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 20.6 | 61.8 |
| 148 | 64.1 | 31.4 | 94.0 |

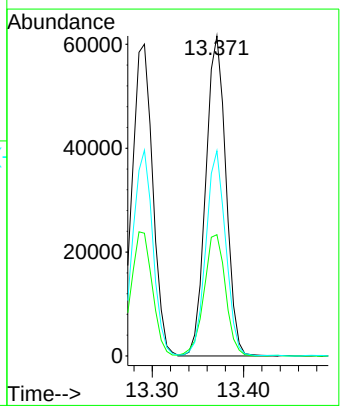


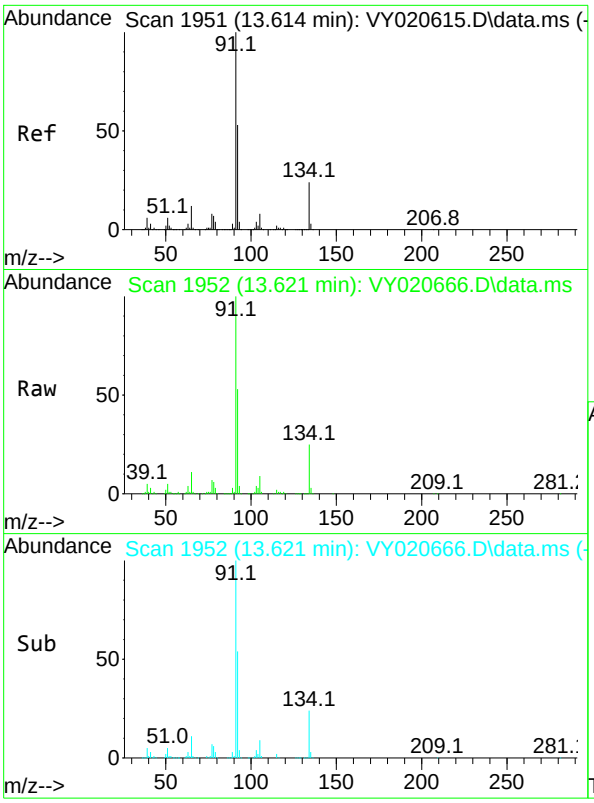




#88
1,4-Dichlorobenzene
Concen: 21.648 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:146 Resp: 94077

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.5 | 19.6 | 58.7 |
| 148 | 62.8 | 31.9 | 95.5 |



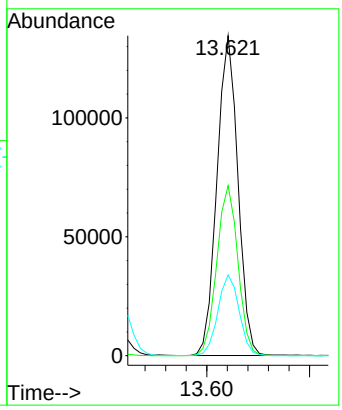


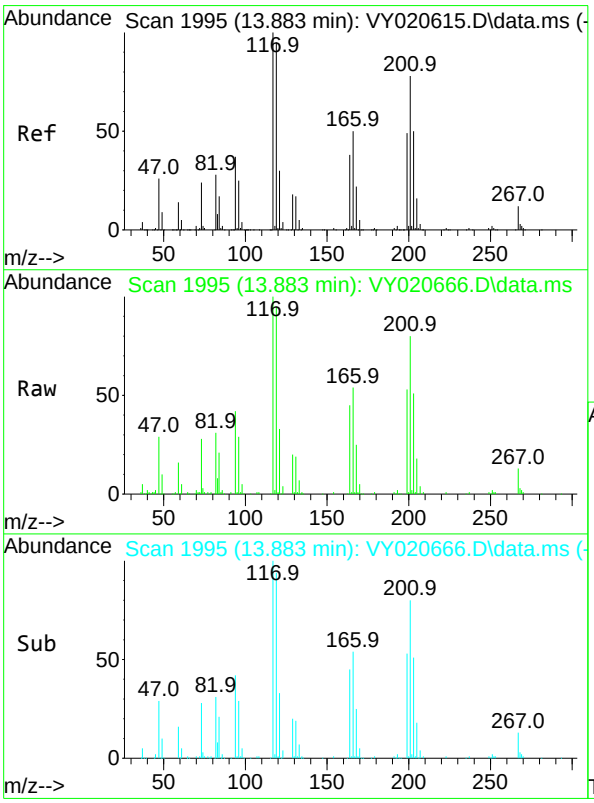

#89
n-Butylbenzene
Concen: 22.293 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion: 91 Resp: 189919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.7 | 26.8 | 80.4 |
| 134 | 25.6 | 12.5 | 37.5 |

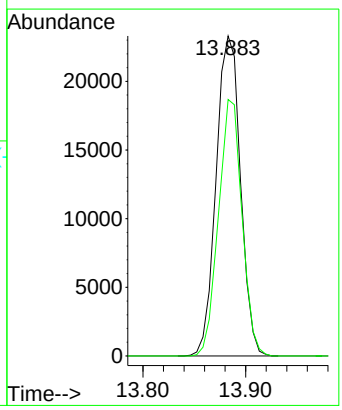


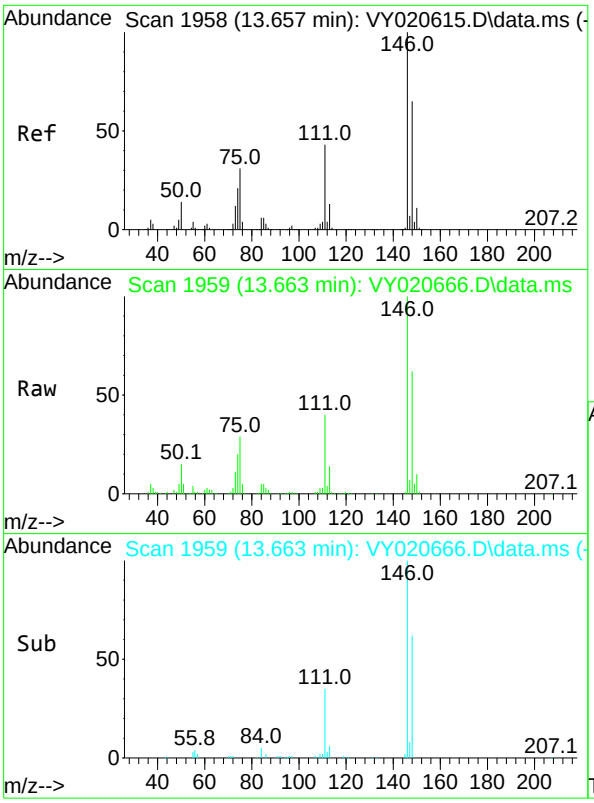




#90
Hexachloroethane
Concen: 21.500 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:117 Resp: 38301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.4 | 39.1 | 117.3 |



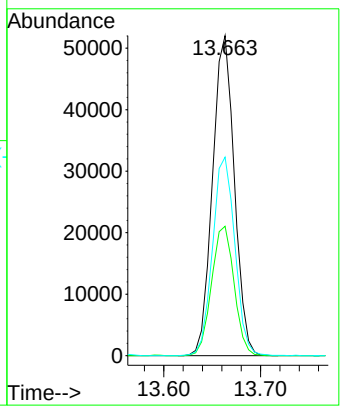


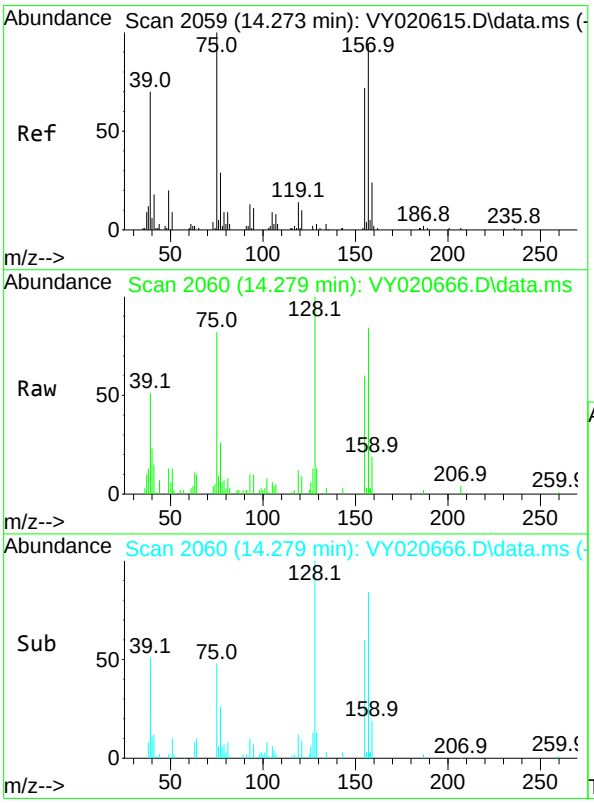

#91
1,2-Dichlorobenzene
Concen: 21.456 ug/l
RT: 13.663 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:146 Resp: 81571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.8 | 21.3 | 63.7 |
| 148 | 63.7 | 32.0 | 96.0 |

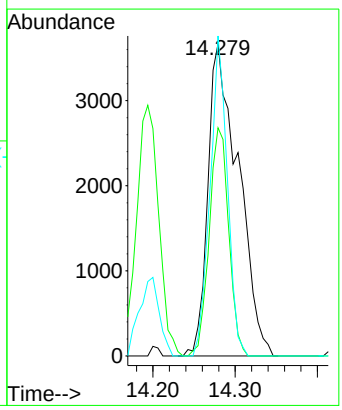


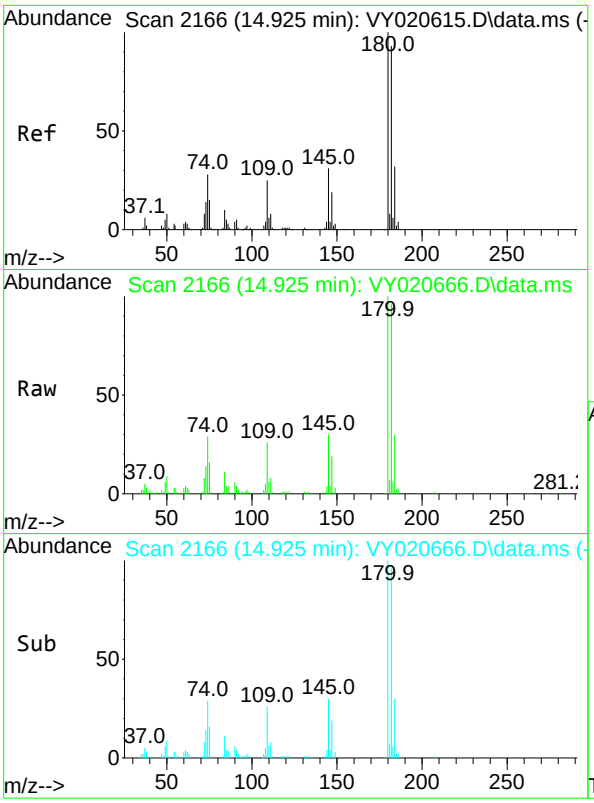




#92
1,2-Dibromo-3-Chloropropane
Concen: 35.007 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion: 75 Resp: 9414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 46.9 | 41.1 | 123.3 |
| 157 | 58.3 | 52.9 | 158.8 |



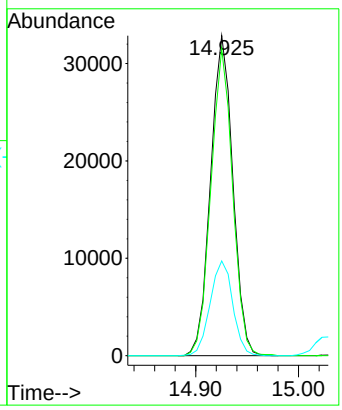


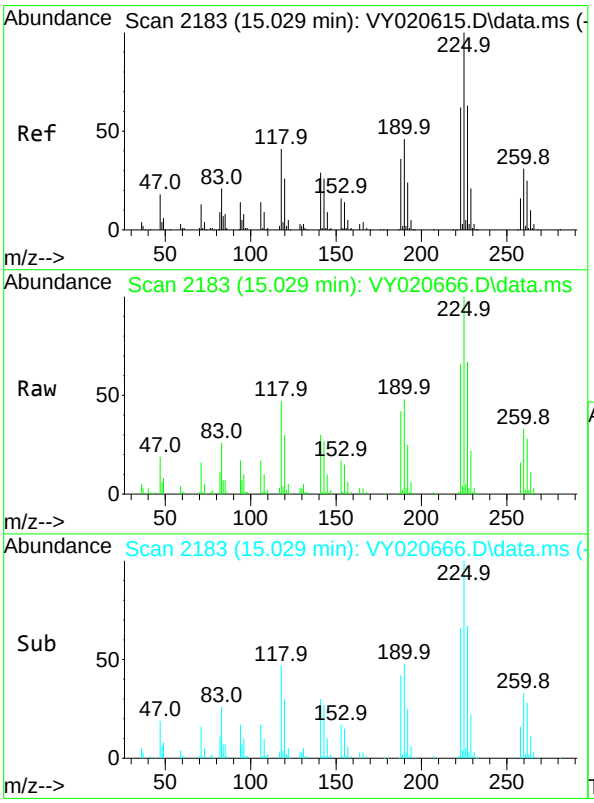

#93
1,2,4-Trichlorobenzene
Concen: 21.424 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:180 Resp: 49266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.7 | 47.9 | 143.6 |
| 145 | 30.2 | 15.6 | 46.7 |

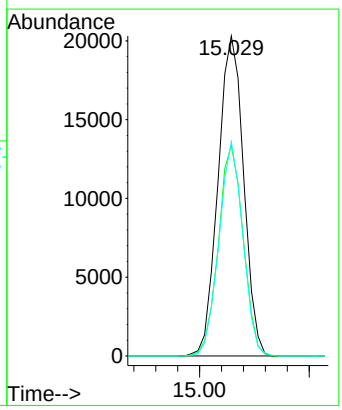


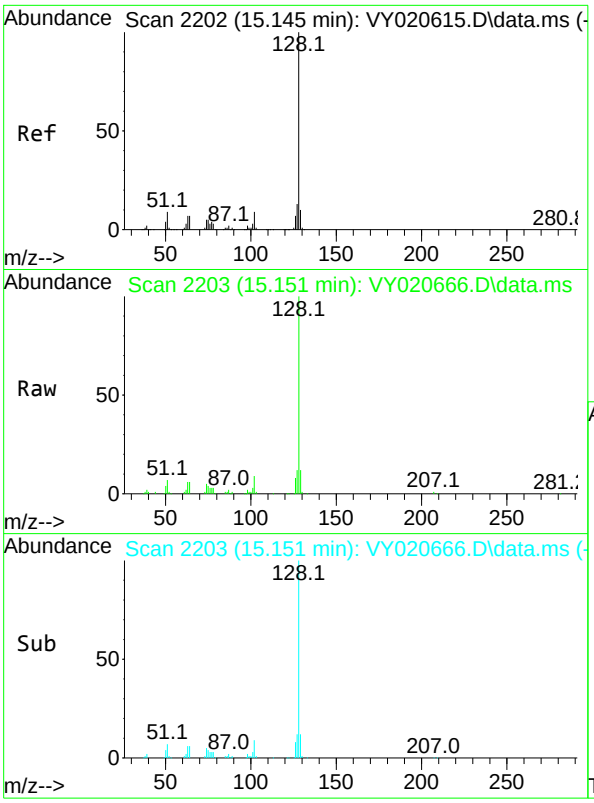




#94
Hexachlorobutadiene
Concen: 21.854 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:225 Resp: 32852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 31.8 | 95.3 |
| 227 | 62.7 | 32.2 | 96.6 |



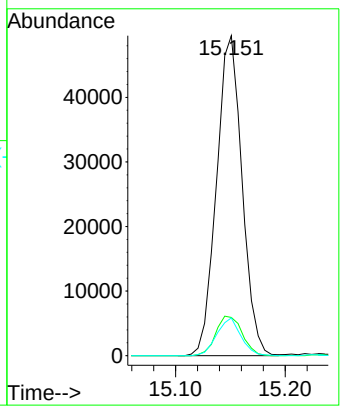


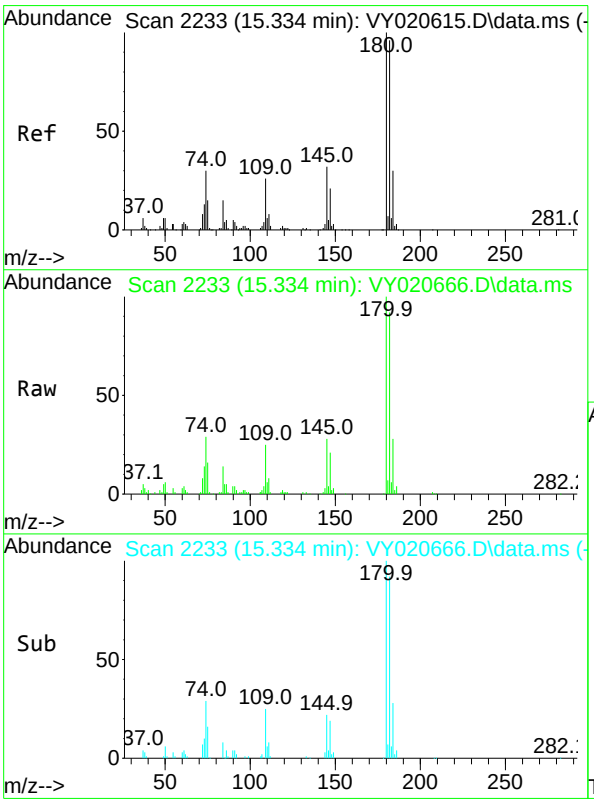

#95
Naphthalene
Concen: 20.350 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBS01

Tgt Ion:128 Resp: 80228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.7 | 16.1 |
| 129 | 11.1 | 8.5 | 12.7 |

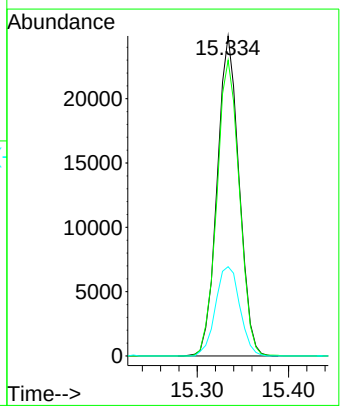



#96
1,2,3-Trichlorobenzene
Concen: 21.307 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020666.D
Acq: 20 Dec 2024 13:12

Tgt Ion:180 Resp: 41397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 47.3 | 141.9 |
| 145 | 31.0 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020667.D
Acq On : 20 Dec 2024 13:34
Operator : SY/MD
Sample : VY1220SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Quant Time: Dec 20 18:08:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 154597 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 238791 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 207851 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 118816 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 89782 | 53.026 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 106.060% | | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 87467 | 51.973 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 103.940% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 317644 | 53.924 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 107.840% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 118853 | 51.581 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 103.160% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 46183 | 23.917 | ug/l | 100 |
| 3) Chloromethane | 2.068 | 50 | 26136 | 18.267 | ug/l | 96 |
| 4) Vinyl Chloride | 2.202 | 62 | 20627 | 15.490 | ug/l | 99 |
| 5) Bromomethane | 2.592 | 94 | 12936 | 15.112 | ug/l | 98 |
| 6) Chloroethane | 2.733 | 64 | 11953 | 14.525 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 46655 | 16.744 | ug/l | 96 |
| 8) Diethyl Ether | 3.458 | 74 | 13711 | 14.031 | ug/l | 90 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 28315 | 14.177 | ug/l | 98 |
| 10) Methyl Iodide | 4.007 | 142 | 32674 | 14.694 | ug/l | 92 |
| 11) Tert butyl alcohol | 4.854 | 59 | 14349 | 55.423 | ug/l | 95 |
| 12) 1,1-Dichloroethene | 3.793 | 96 | 27039 | 13.953 | ug/l | 87 |
| 13) Acrolein | 3.659 | 56 | 5532 | 69.097 | ug/l | 96 |
| 14) Allyl chloride | 4.385 | 41 | 39213 | 11.548 | ug/l | 90 |
| 15) Acrylonitrile | 5.055 | 53 | 29353 | 62.786 | ug/l | 99 |
| 16) Acetone | 3.873 | 43 | 20534 | 56.052 | ug/l # | 88 |
| 17) Carbon Disulfide | 4.104 | 76 | 88129 | 13.971 | ug/l | 97 |
| 18) Methyl Acetate | 4.391 | 43 | 13712 | 11.903 | ug/l | 92 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 71311 | 14.257 | ug/l | 93 |
| 20) Methylene Chloride | 4.616 | 84 | 28001 | 13.301 | ug/l | 91 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 30978 | 14.251 | ug/l | 88 |
| 22) Diisopropyl ether | 6.025 | 45 | 96975 | 14.069 | ug/l | 94 |
| 23) Vinyl Acetate | 5.964 | 43 | 267947 | 68.637 | ug/l # | 94 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 56185 | 13.914 | ug/l | 97 |
| 25) 2-Butanone | 6.896 | 43 | 57567 | 91.487 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 6.884 | 77 | 71251 | 18.666 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 47563 | 19.017 | ug/l | 99 |
| 28) Bromochloromethane | 7.250 | 49 | 21651 | 15.896 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.262 | 42 | 39939 | 100.545 | ug/l | 98 |
| 30) Chloroform | 7.421 | 83 | 86753 | 18.008 | ug/l | 98 |
| 31) Cyclohexane | 7.701 | 56 | 82760 | 21.435 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 7.616 | 97 | 78587 | 21.184 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.835 | 75 | 67576 | 22.021 | ug/l | 100 |
| 37) Ethyl Acetate | 6.982 | 43 | 27819 | 19.272 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 75478 | 22.231 | ug/l | 94 |
| 39) Methylcyclohexane | 9.109 | 83 | 85612 | 21.405 | ug/l | 96 |
| 40) Benzene | 8.079 | 78 | 198978 | 22.121 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020667.D
Acq On : 20 Dec 2024 13:34
Operator : SY/MD
Sample : VY1220SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Quant Time: Dec 20 18:08:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.256 | 41 | 38449 | 50.383 | ug/l | # | 19 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 52790 | 22.128 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 61389 | 22.464 | ug/l | # | 88 |
| 44) Trichloroethene | 8.866 | 130 | 49726 | 22.498 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 47049 | 22.380 | ug/l | | 100 |
| 46) Dibromomethane | 9.231 | 93 | 24740 | 22.268 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.420 | 83 | 65935 | 21.970 | ug/l | | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 28515 | 21.949 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.225 | 88 | 5646 | 443.123 | ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 10.000 | 43 | 156324 | 108.373 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 123673 | 22.124 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 60417 | 21.605 | ug/l | | 95 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 72340 | 21.830 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 32853 | 22.365 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.438 | 69 | 46933 | 22.024 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.713 | 76 | 57877 | 22.103 | ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 89896 | 100.257 | ug/l | | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 102848 | 111.052 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 43570 | 22.179 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 31084 | 22.750 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.646 | 164 | 43165 | 22.078 | ug/l | | 96 |
| 65) Chlorobenzene | 11.438 | 112 | 129936 | 22.358 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 45362 | 22.826 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 236674 | 22.074 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 176607 | 44.301 | ug/l | | 99 |
| 69) o-Xylene | 11.957 | 106 | 82303 | 22.127 | ug/l | | 98 |
| 70) Styrene | 11.969 | 104 | 138486 | 22.284 | ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 25202 | 22.556 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 223291 | 21.536 | ug/l | | 100 |
| 74) N-amyl acetate | 12.072 | 43 | 54037 | 22.269 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 37121 | 22.056 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 50195 | 40.668 | ug/l | # | 100 |
| 77) Bromobenzene | 12.530 | 156 | 48228 | 21.353 | ug/l | | 96 |
| 78) n-propylbenzene | 12.597 | 91 | 267926 | 21.448 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.676 | 91 | 151653 | 21.578 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 182355 | 21.675 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 12691 | 21.583 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 158267 | 21.706 | ug/l | | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 162779 | 21.364 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 180211 | 21.837 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 238168 | 21.499 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 197046 | 21.573 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 95540 | 21.429 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 95023 | 21.519 | ug/l | | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 183392 | 21.186 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 38132 | 21.066 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 83132 | 21.520 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.273 | 75 | 5790 | 21.190 | ug/l | | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 48158 | 20.610 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 32056 | 20.986 | ug/l | | 98 |
| 95) Naphthalene | 15.145 | 128 | 84632 | 21.127 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 40965 | 20.750 | ug/l | | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020667.D
Acq On : 20 Dec 2024 13:34
Operator : SY/MD
Sample : VY1220SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Quant Time: Dec 20 18:08:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

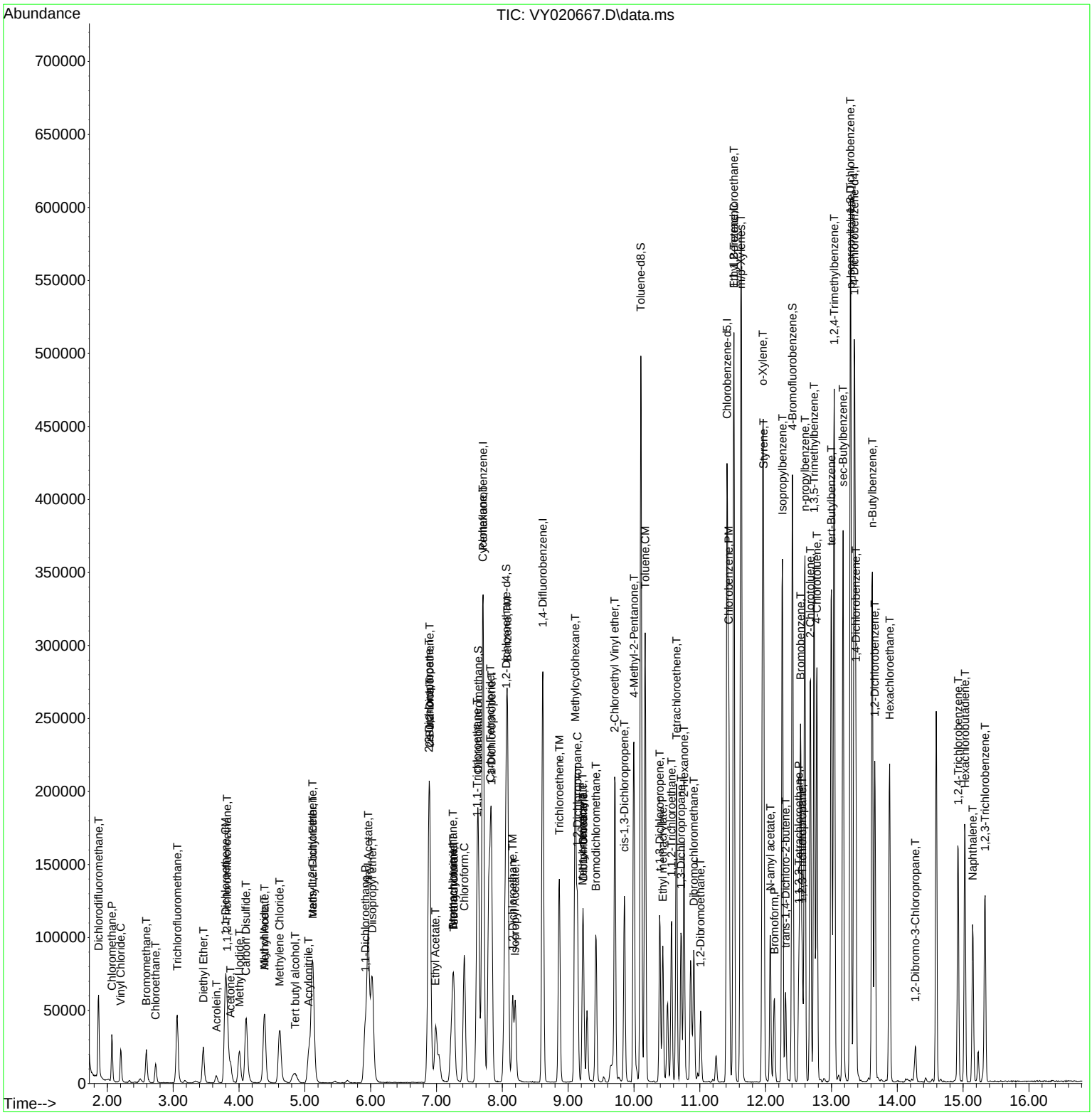
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

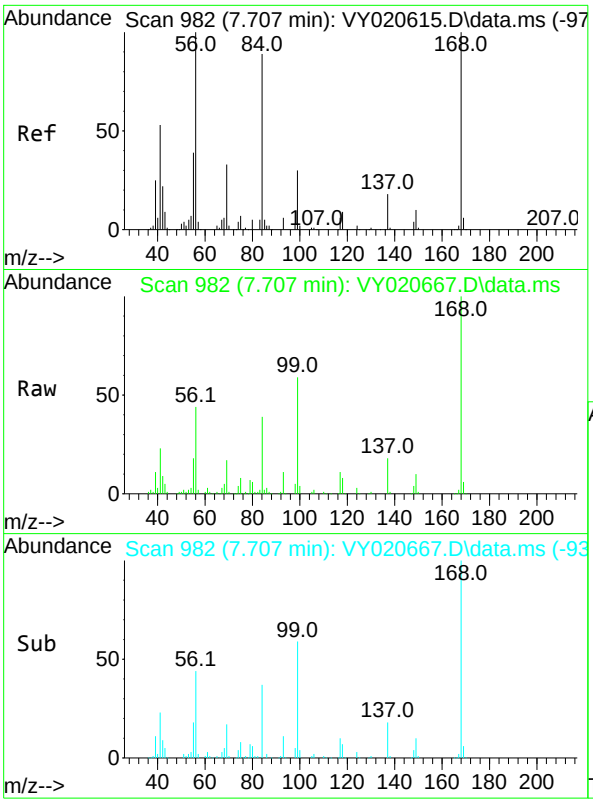
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020667.D
Acq On : 20 Dec 2024 13:34
Operator : SY/MD
Sample : VY1220SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Quant Time: Dec 20 18:08:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration


Abundance
TIC: VY020667.D\data.ms
Time-->
Dichlorodifluoromethane,T
Chloromethane,P
Vinyl Chloride,C
Bromomethane,T
Chloroethane,T
Trichlorofluoromethane,T
Diethyl Ether,T
Acrolein,T
Acetone,T
Methyl Iodide,T
Carbon Disulfide,T
Methyl Acetate,T
Methylene Chloride,T
Tert butyl alcohol,T
Acrylonitrile,T
Dichloroprene,T
1,1-Dichloroethane,P
Diisopropyl ether,T
Ethyl Acetate,T
Chloroform,C
Cyclohexane,T
Carbon Tetrachloride,T
1,2-Dichloroethane-d4,S
1,4-Difluorobenzene,I
Trichloroethene,TM
Methylcyclohexane,T
Isopropyl Acetate,T
Bromodichloromethane,T
2-Chloroethyl Vinyl ether,T
cis-1,3-Dichloropropene,T
4-Methyl-2-Pentanone,T
Toluene,CM
Toluene-d8,S
Ethyl methacrylate,T
trans-1,3-Dichloropropene,T
1,1,2-Trichloroethane,T
Tetrachloroethene,T
2-Hexanone,T
Dibromochloromethane,T
1,2-Dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,PM
Ethylbenzene,T
m,p-Xylenes,T
o-Xylene,T
Styrene,T
Isopropylbenzene,T
4-Bromofluorobenzene,S
n-propylbenzene,T
1,3,5-Trimethylbenzene,T
2-Chlorotoluene,T
4-Chlorotoluene,T
tert-Butylbenzene,T
1,2,4-Trimethylbenzene,T
sec-Butylbenzene,T
1,4-Dichlorobenzene,T
n-Butylbenzene,T
1,2-Dichlorobenzene,T
Hexachloroethane,T
1,2,4-Trichlorobenzene,T
Hexachlorobutadiene,T
Naphthalene,T
1,2,3-Trichlorobenzene,T
1,2-Dibromo-3-Chloropropane,T
Bromoform,P
n-amyl acetate,T
trans-1,4-Dichloro-2-butene,T
1,2,3,4-Tetrachlorobenzene,P
Dibromofluoromethane,S
1,2-Dichloroethane-d4,S
1,2-Dichloroethane-d4,S
1,2-Dichloroethane-d4

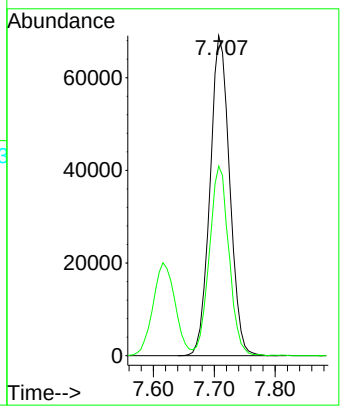


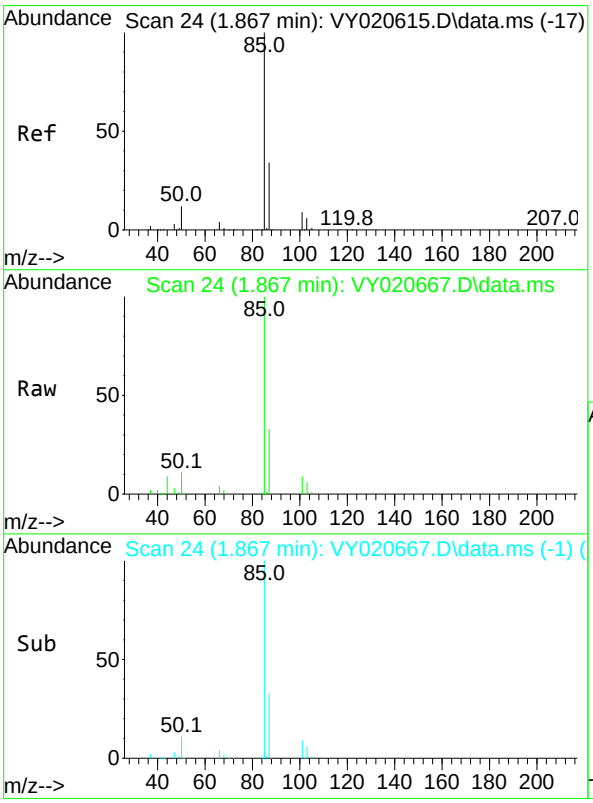

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:168 Resp: 154597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.1 | 47.0 | 70.6 |

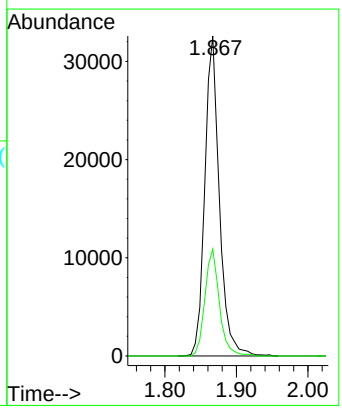


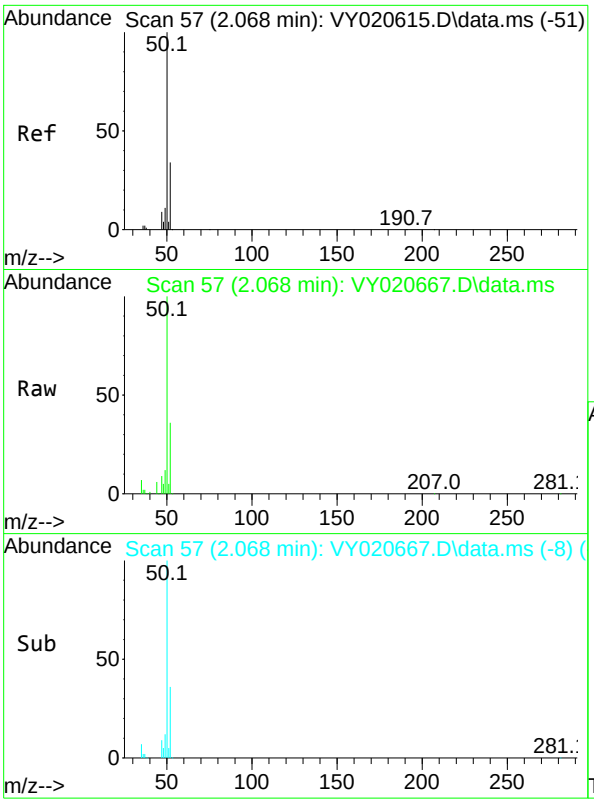




#2
Dichlorodifluoromethane
Concen: 23.917 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 85 Resp: 46183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.4 | 16.8 | 50.3 |



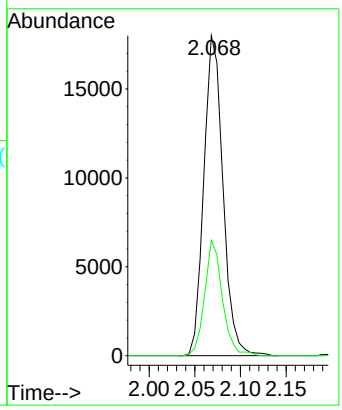


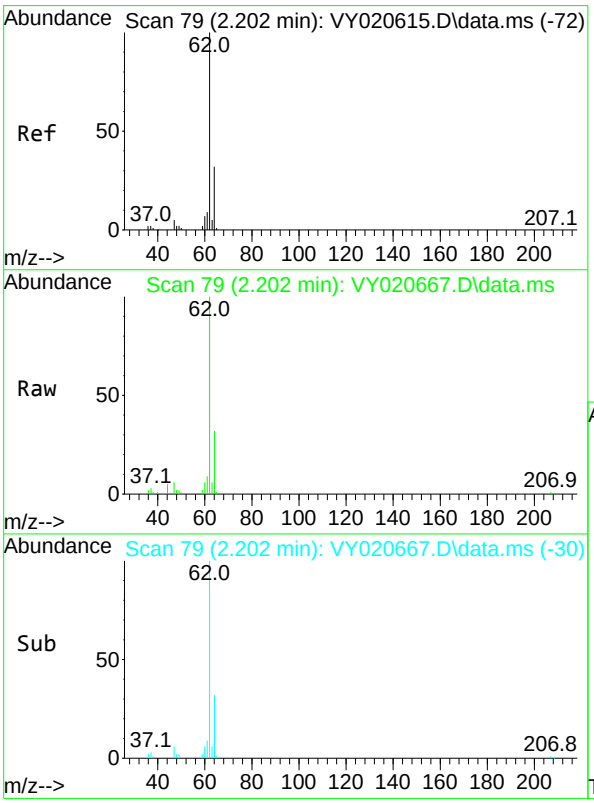

#3
Chloromethane
Concen: 18.267 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 50 Resp: 26136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.0 | 26.8 | 40.2 |

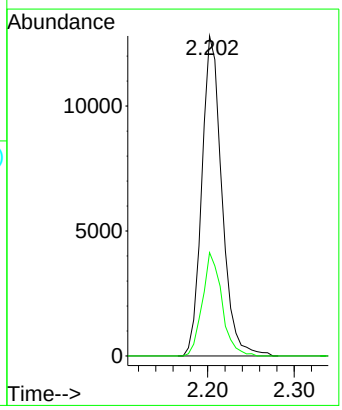


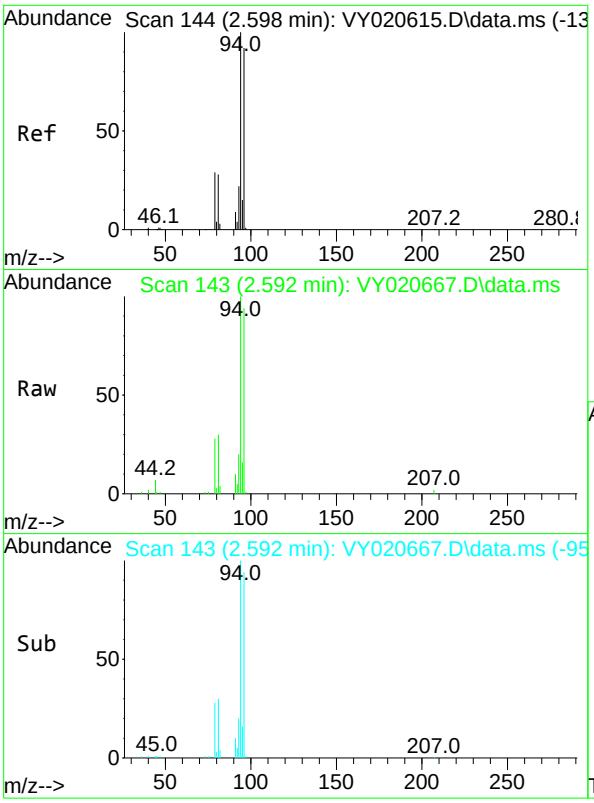




#4
Vinyl Chloride
Concen: 15.490 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 62 Resp: 20627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.3 | 25.3 | 37.9 |



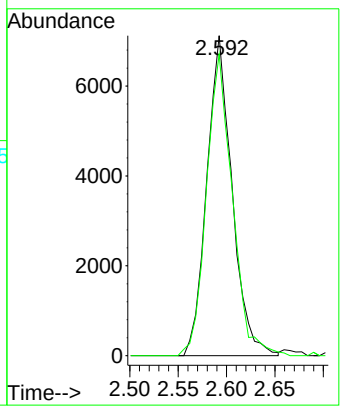


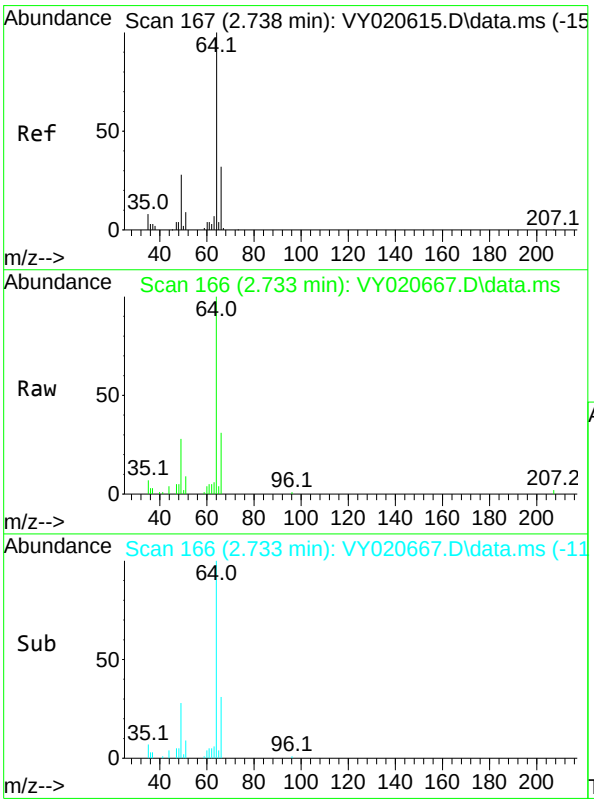

#5
Bromomethane
Concen: 15.112 ug/l
RT: 2.592 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 94 Resp: 12936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.2 | 73.8 | 110.6 |

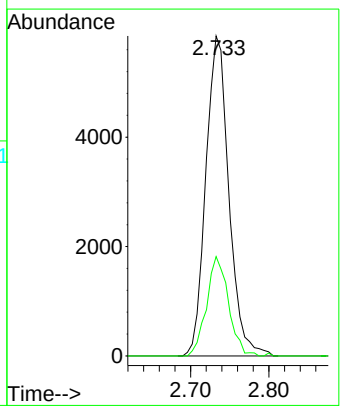


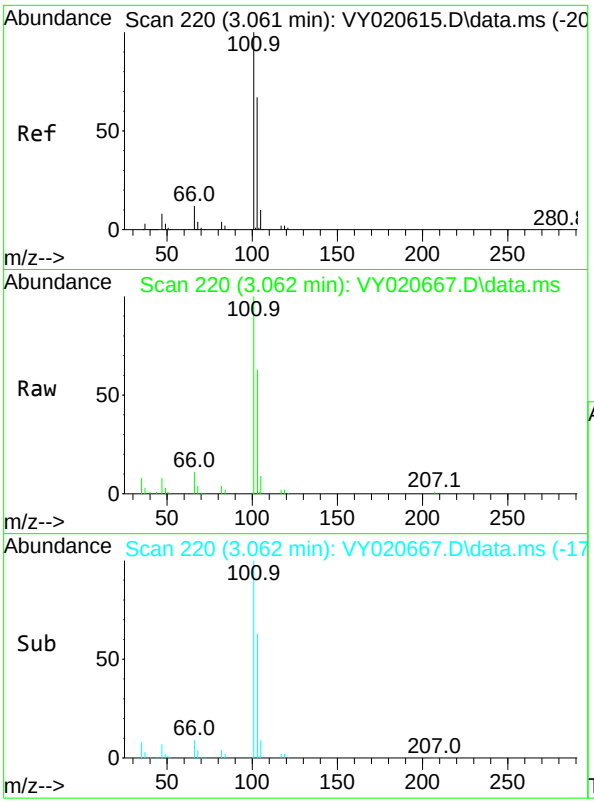




#6
Chloroethane
Concen: 14.525 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 64 Resp: 11953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.1 | 25.8 | 38.6 |



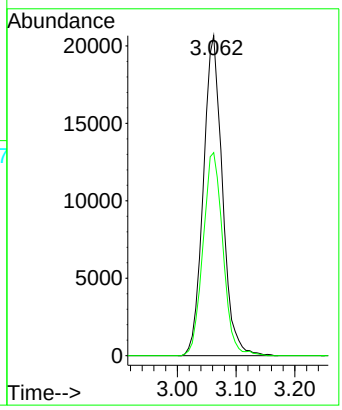


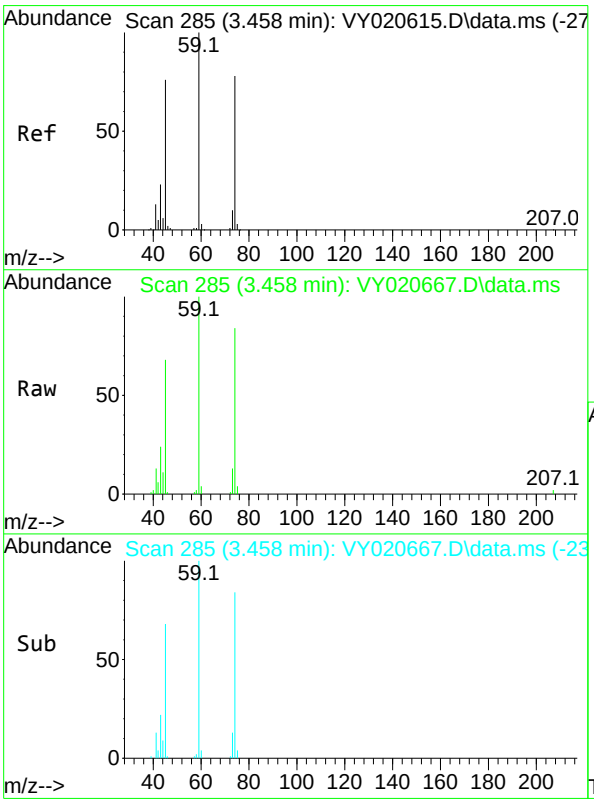

#7
Trichlorofluoromethane
Concen: 16.744 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:101 Resp: 46655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.4 | 53.4 | 80.0 |

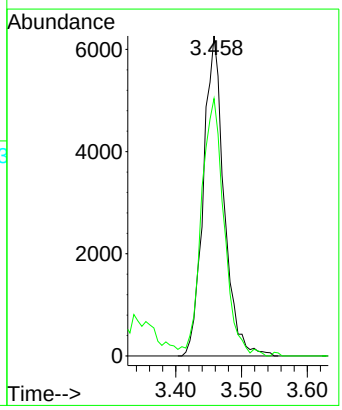


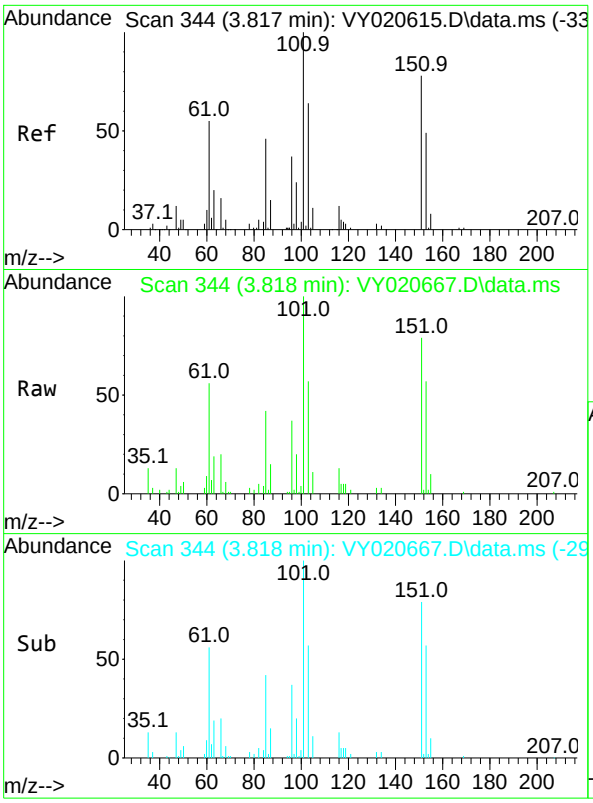




#8
Diethyl Ether
Concen: 14.031 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 74 Resp: 13711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 88.1 | 49.0 | 147.2 |



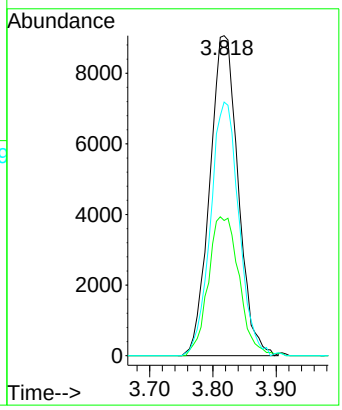


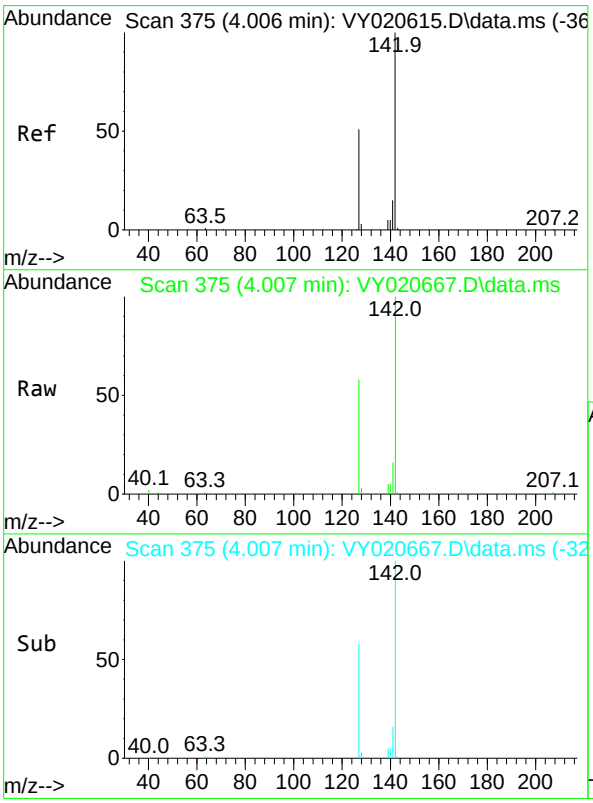

#9
1,1,2-Trichlorotrifluoroethane
Concen: 14.177 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:101 Resp: 28315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.0 | 36.6 | 54.8 |
| 151 | 79.0 | 61.5 | 92.3 |

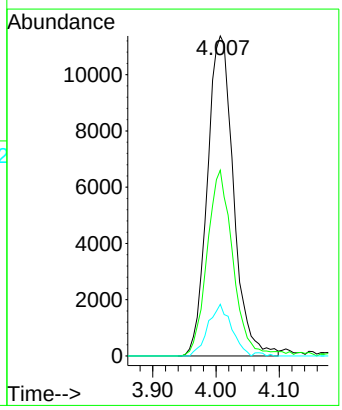


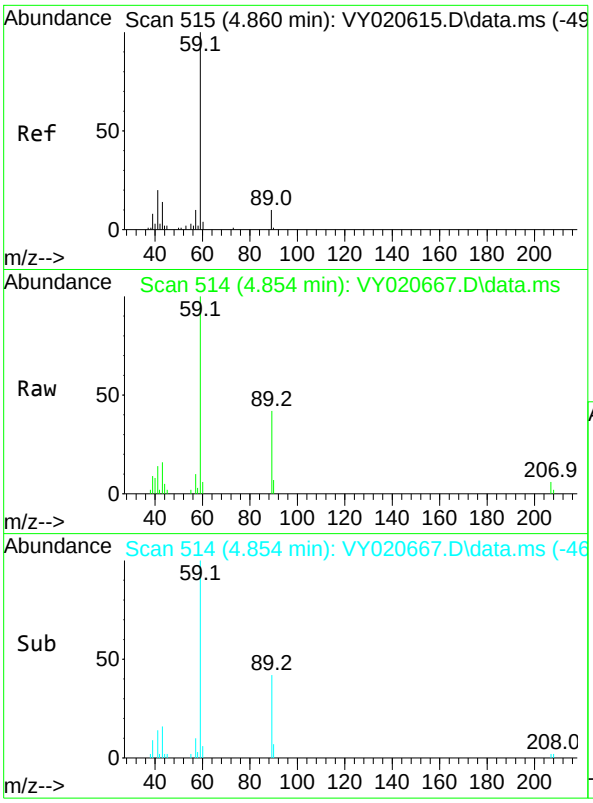




#10
Methyl Iodide
Concen: 14.694 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:142 Resp: 32674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 57.7 | 40.6 | 61.0 |
| 141 | 14.5 | 11.7 | 17.5 |



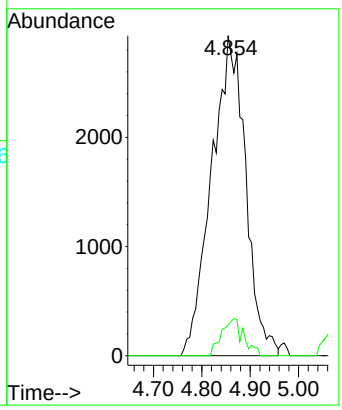


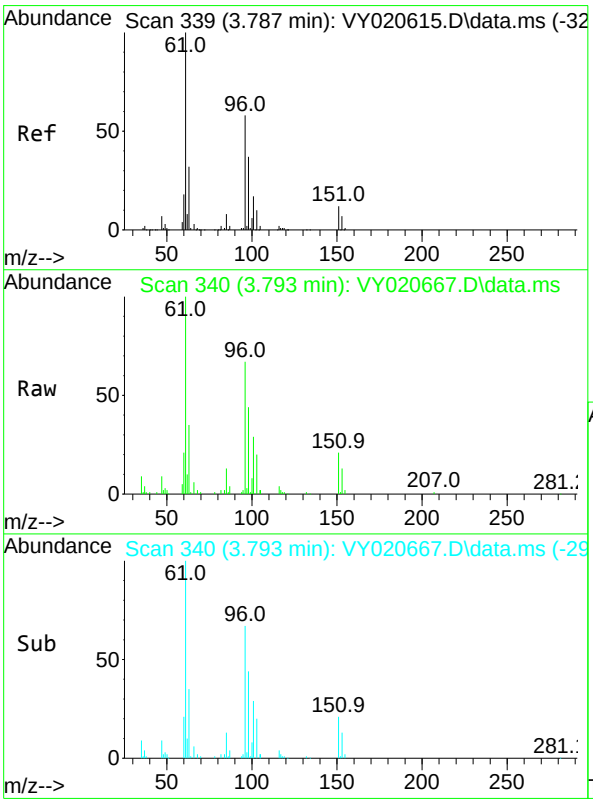

#11
Tert butyl alcohol
Concen: 55.423 ug/l
RT: 4.854 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 59 Resp: 14349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 7.5 | 7.4 | 11.0 |

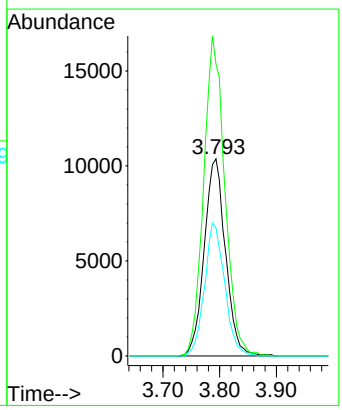


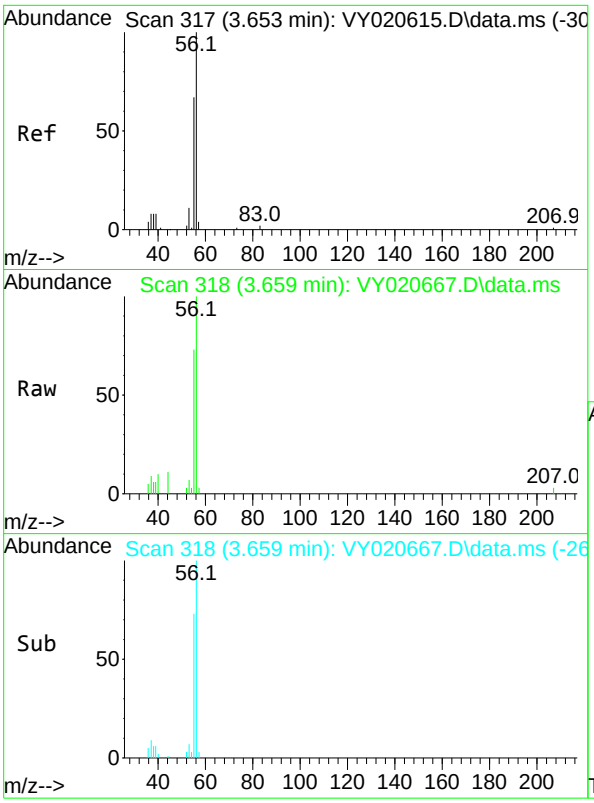




#12
1,1-Dichloroethene
Concen: 13.953 ug/l
RT: 3.793 min Scan# 340
Delta R.T. 0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 96 Resp: 27039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.2 | 136.9 | 205.3 |
| 98 | 65.1 | 50.2 | 75.4 |



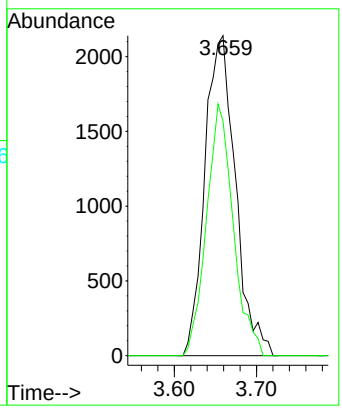


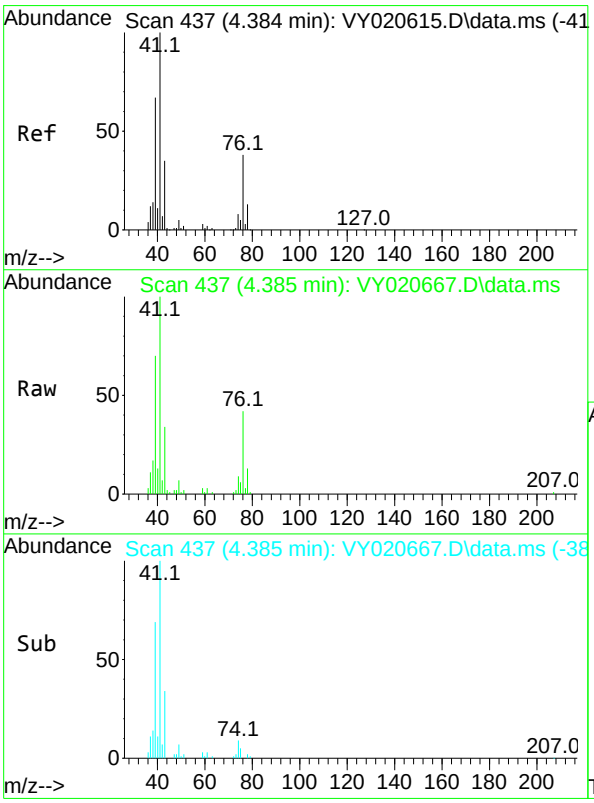

#13
Acrolein
Concen: 69.097 ug/l
RT: 3.659 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 56 Resp: 5532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.9 | 57.5 | 86.3 |

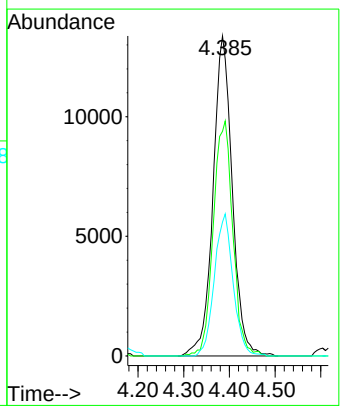


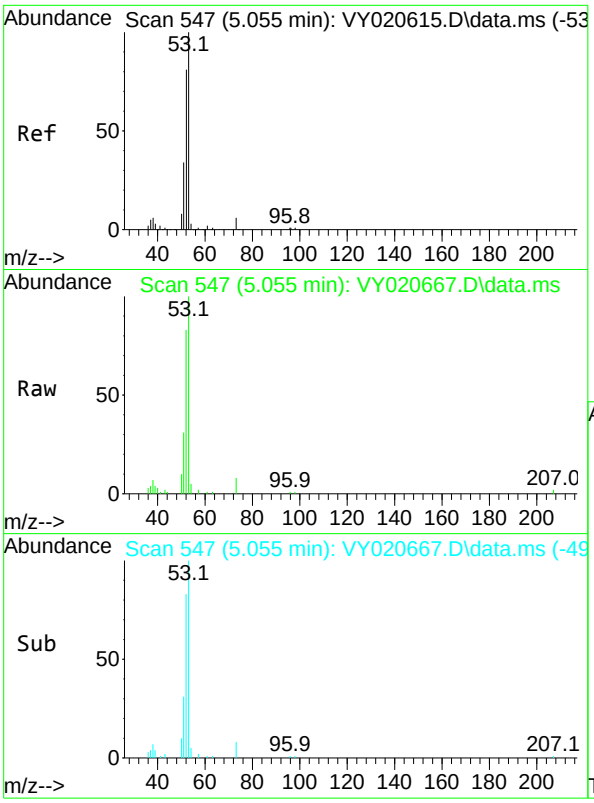




#14
Allyl chloride
Concen: 11.548 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 41 Resp: 39213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.4 | 53.0 | 79.4 |
| 76 | 43.2 | 29.5 | 44.3 |



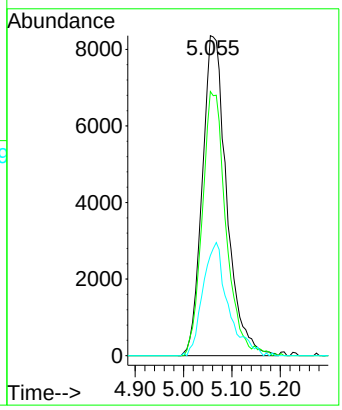


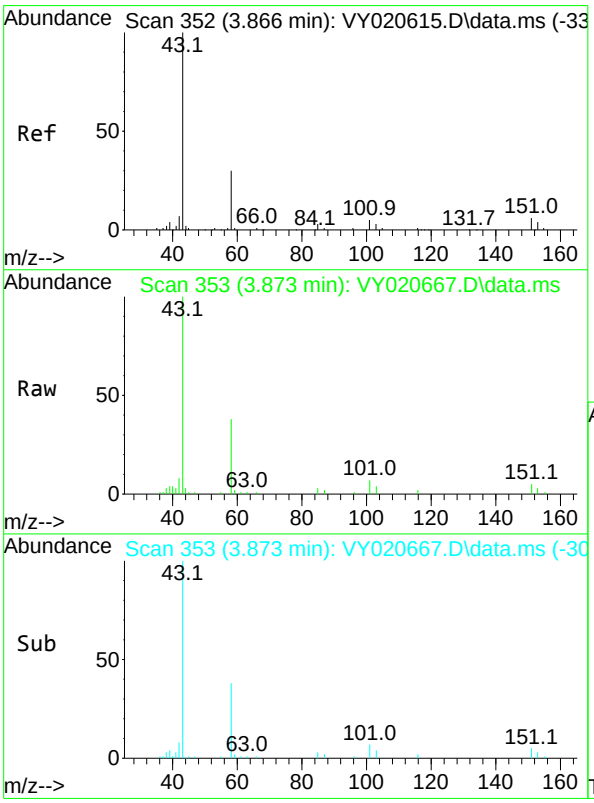

#15
Acrylonitrile
Concen: 62.786 ug/l
RT: 5.055 min Scan# 54
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 53 Resp: 29353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.2 | 64.5 | 96.7 |
| 51 | 36.2 | 29.4 | 44.0 |

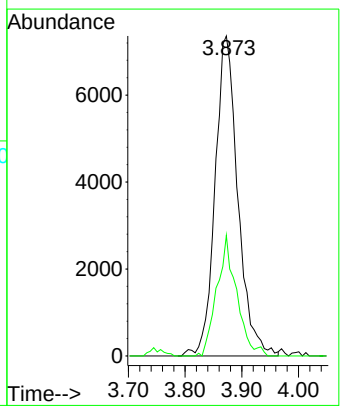


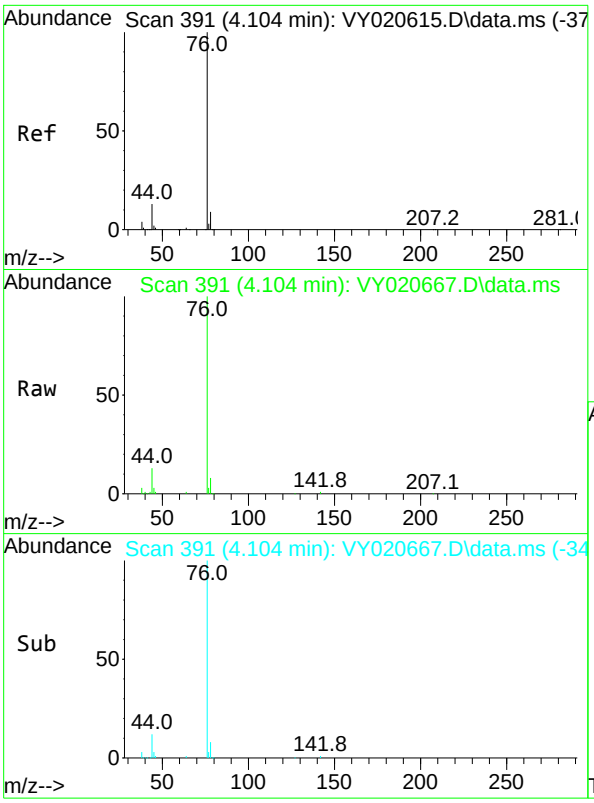




#16
Acetone
Concen: 56.052 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.007 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 43 Resp: 20534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 37.7 | 25.0 | 37.6# |



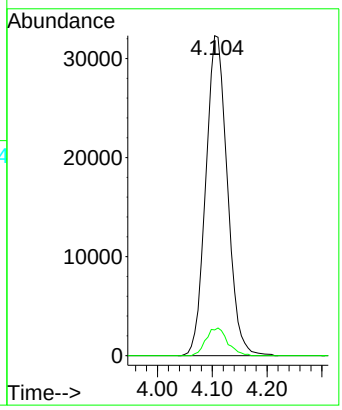


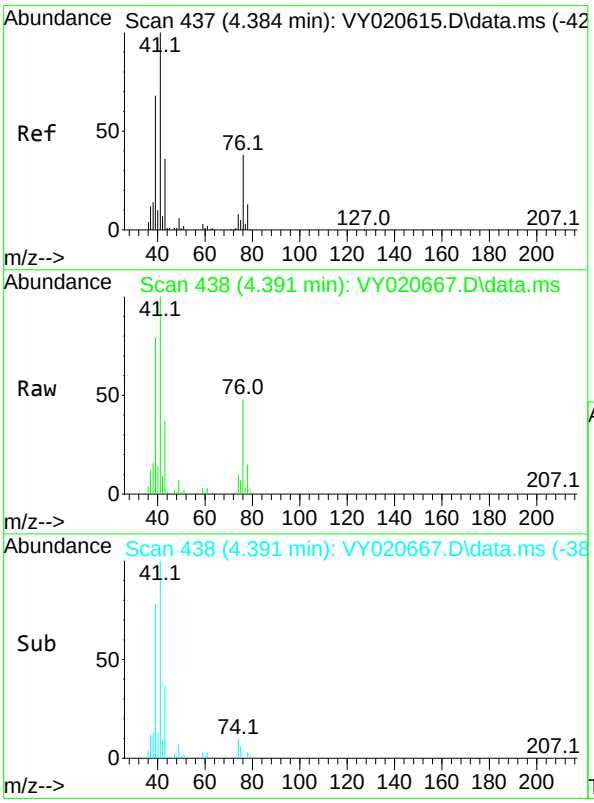

#17
Carbon Disulfide
Concen: 13.971 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 76 Resp: 88129

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.1 | 7.2 | 10.8 |

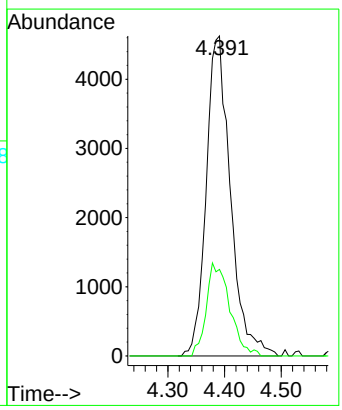


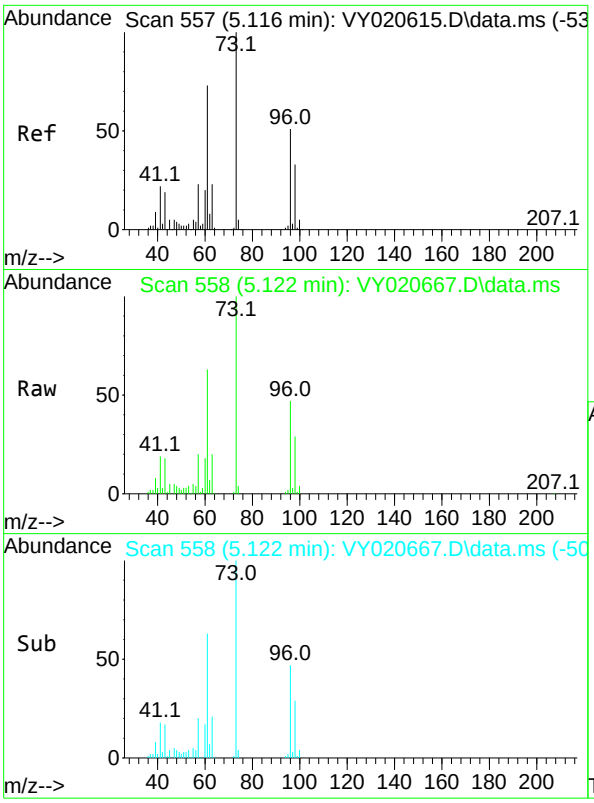




#18
Methyl Acetate
Concen: 11.903 ug/l
RT: 4.391 min Scan# 438
Delta R.T. 0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 43 Resp: 13712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 28.1 | 19.2 | 28.8 |



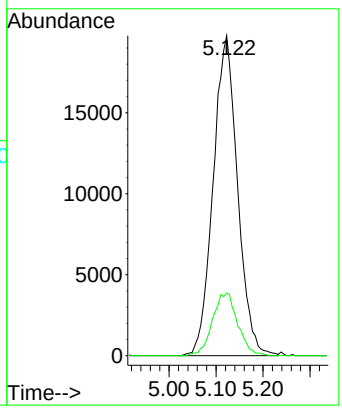


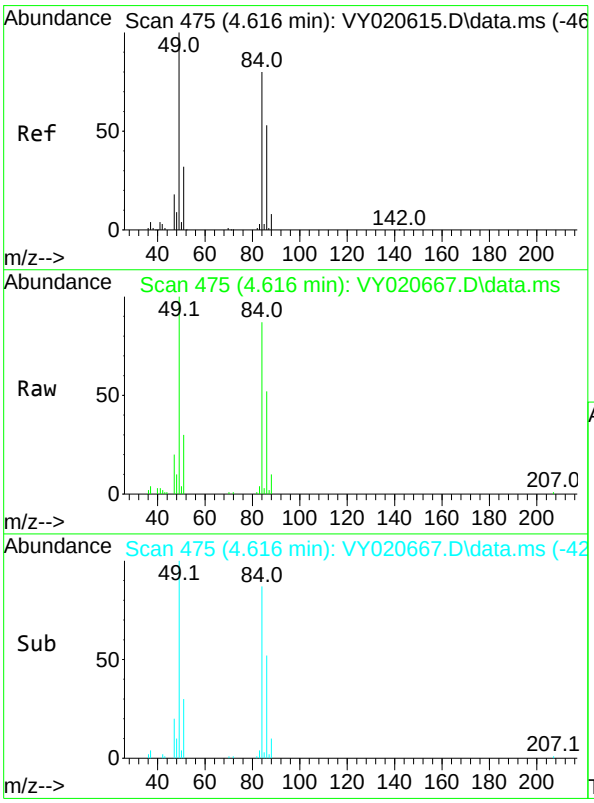

#19
Methyl tert-butyl Ether
Concen: 14.257 ug/l
RT: 5.122 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 73 Resp: 71311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.6 | 18.5 | 27.7 |

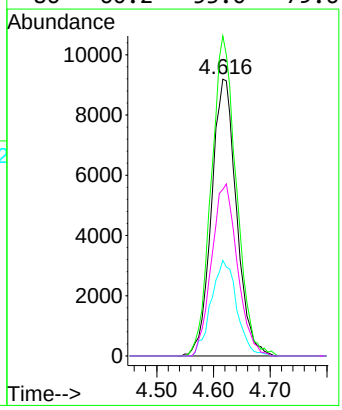


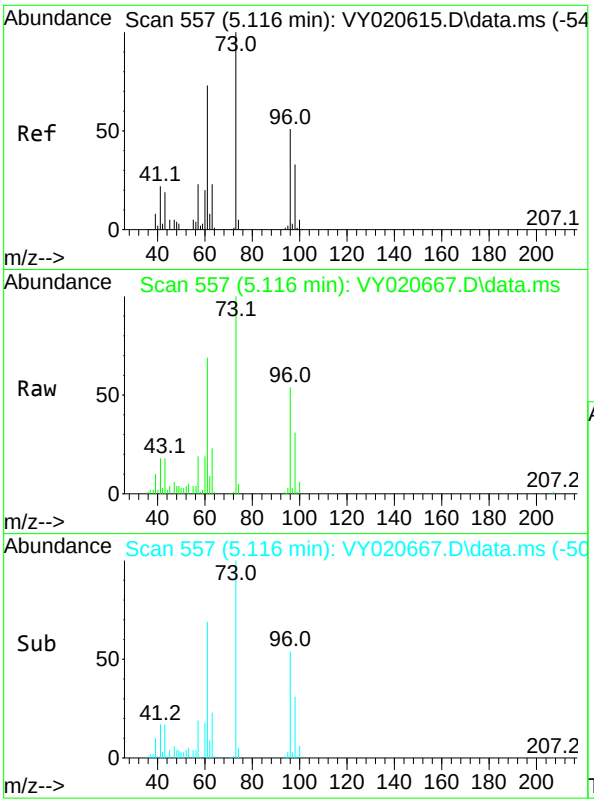




#20
Methylene Chloride
Concen: 13.301 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 84 Resp: 28001

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 115.6 | 100.7 | 151.1 |
| 51 | 34.5 | 32.2 | 48.2 |
| 86 | 60.2 | 53.0 | 79.6 |



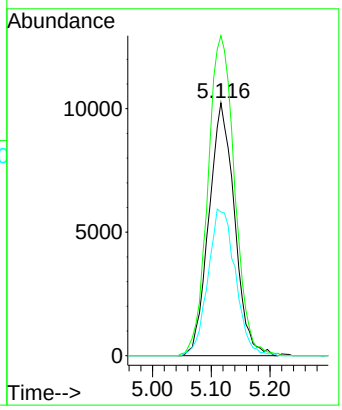


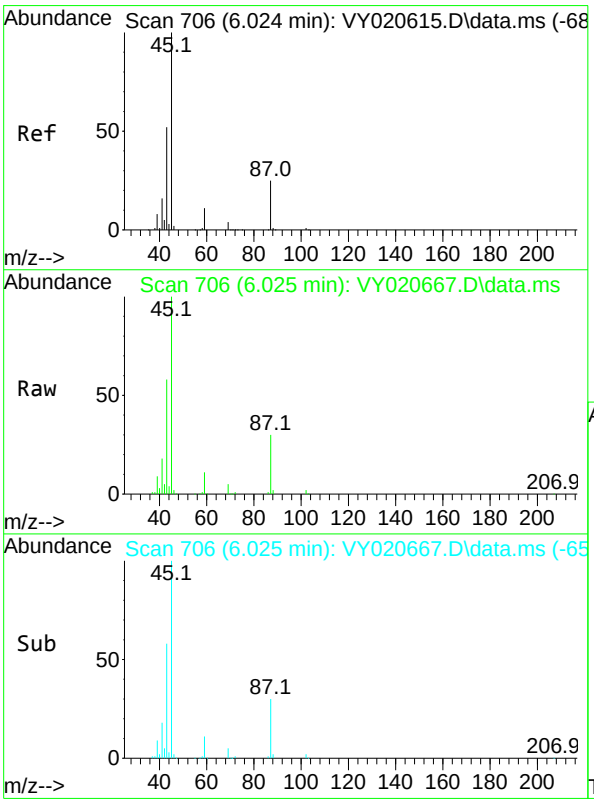

#21
trans-1,2-Dichloroethene
Concen: 14.251 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 96 Resp: 30978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 126.6 | 113.7 | 170.5 |
| 98 | 56.9 | 51.7 | 77.5 |

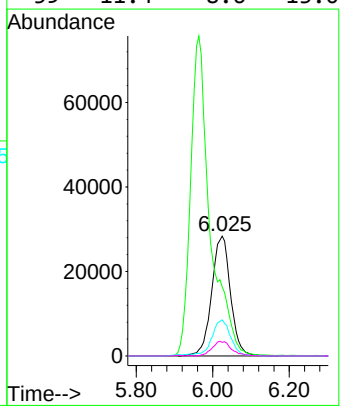


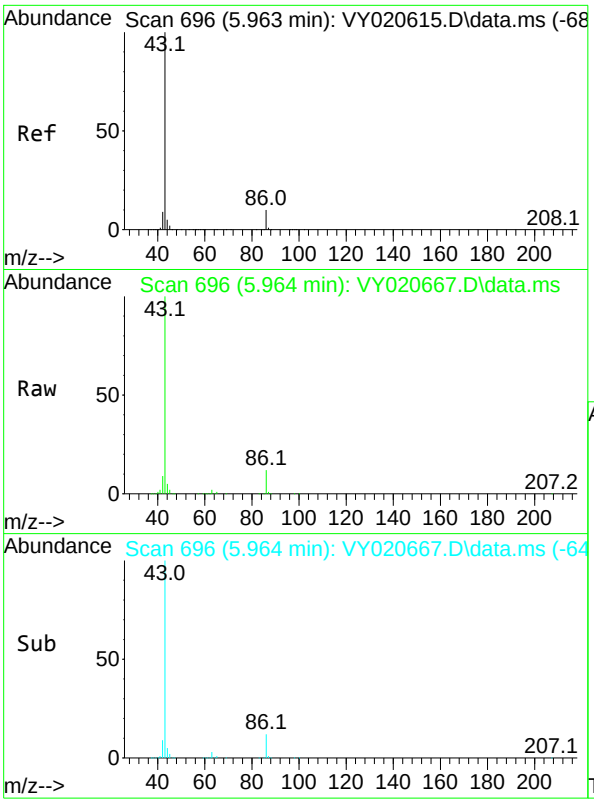




#22
Diisopropyl ether
Concen: 14.069 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 45 Resp: 96975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 57.1 | 42.6 | 64.0 |
| 87 | 30.2 | 20.6 | 31.0 |
| 59 | 11.4 | 8.6 | 13.0 |



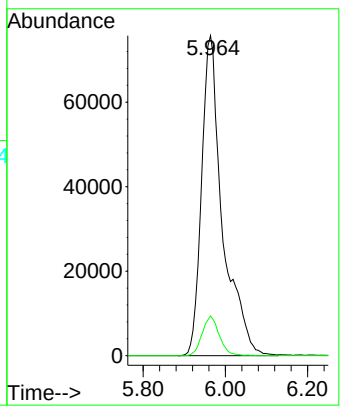


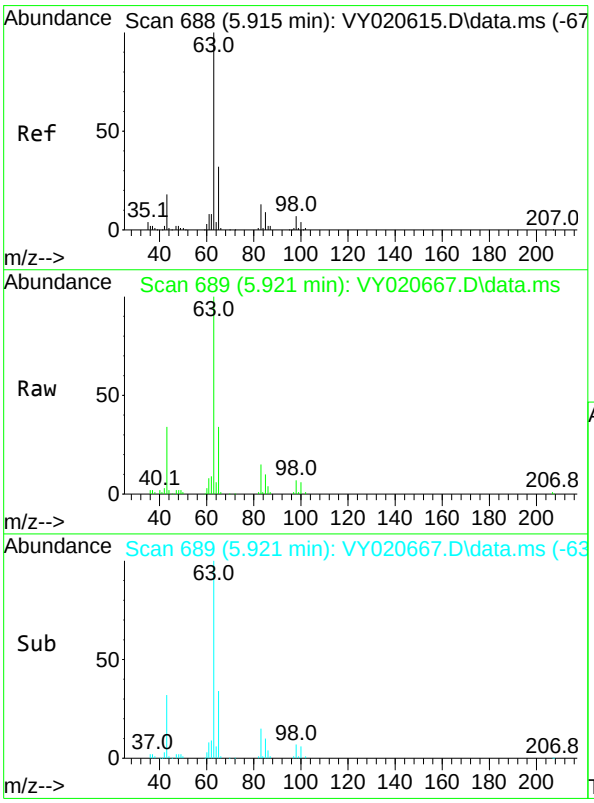

#23
Vinyl Acetate
Concen: 68.637 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 43 Resp: 267947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 12.4 | 8.1 | 12.1# |

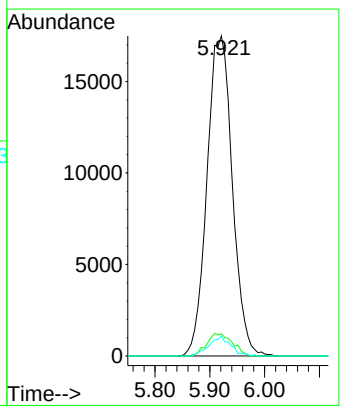


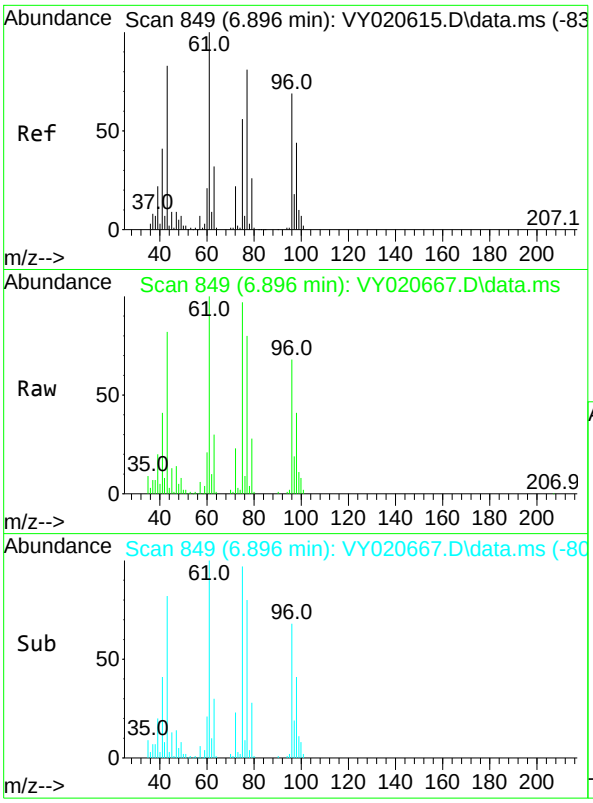




#24
1,1-Dichloroethane
Concen: 13.914 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 63 Resp: 56185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 3.4 | 10.1 |
| 100 | 6.1 | 2.1 | 6.5 |



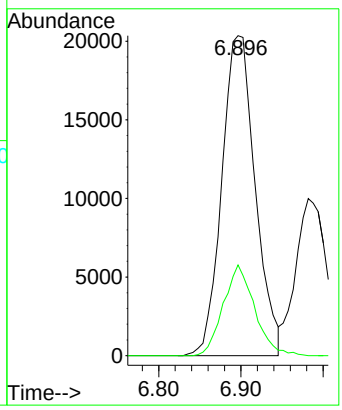


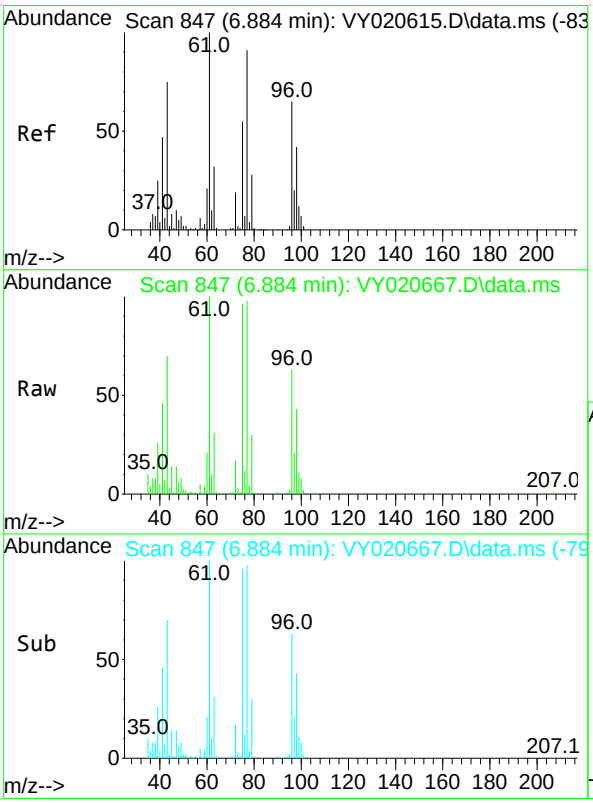

#25
2-Butanone
Concen: 91.487 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 43 Resp: 57567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 28.3 | 20.6 | 31.0 |

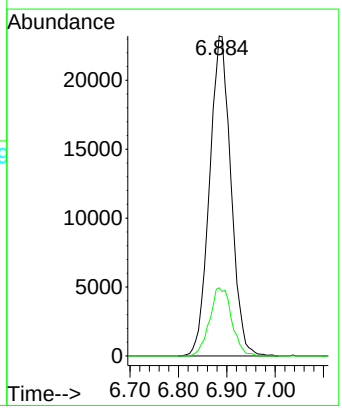


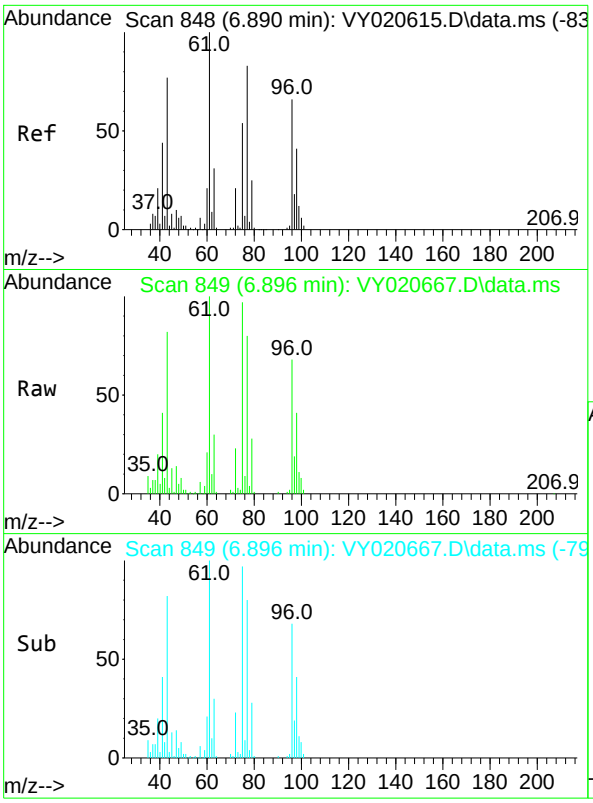




#26
2,2-Dichloropropane
Concen: 18.666 ug/l
RT: 6.884 min Scan# 847
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 77 Resp: 71251

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |



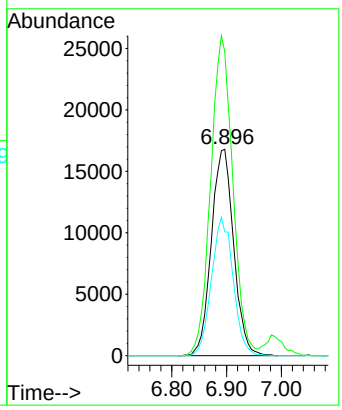


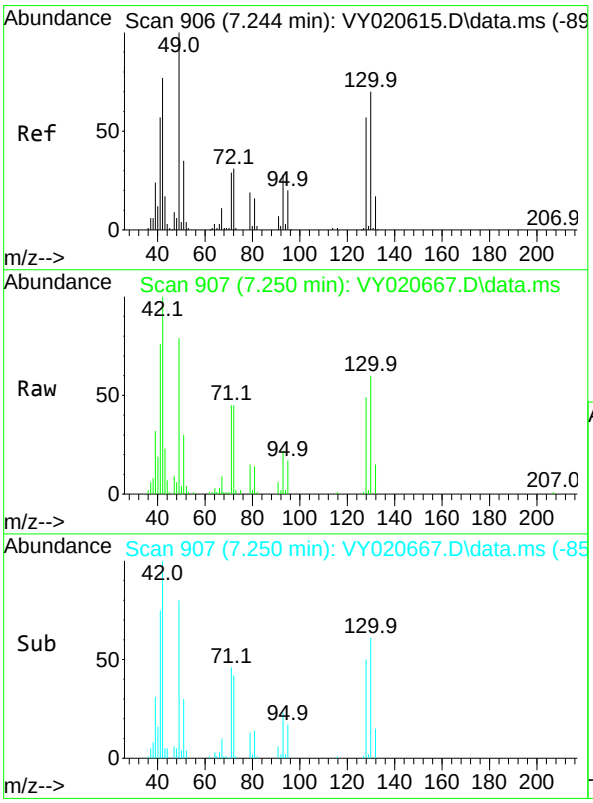

#27
cis-1,2-Dichloroethene
Concen: 19.017 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 96 Resp: 47563

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 153.3 | 0.0 | 306.2 |
| 98 | 65.1 | 0.0 | 127.2 |

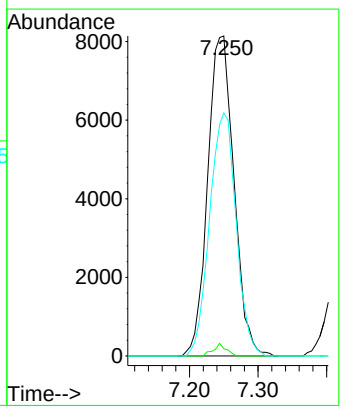


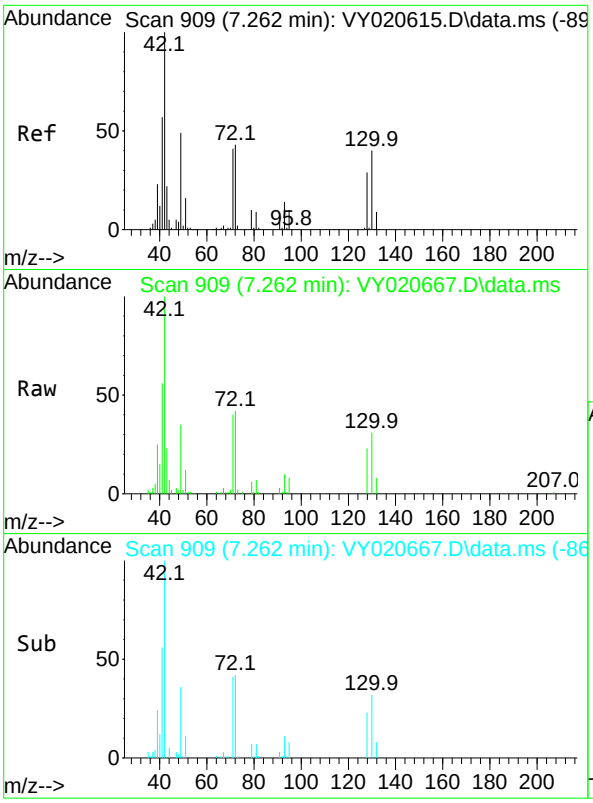




#28
Bromochloromethane
Concen: 15.896 ug/l
RT: 7.250 min Scan# 907
Delta R.T. 0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 49 Resp: 21651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.8 |
| 130 | 76.7 | 58.3 | 87.5 |



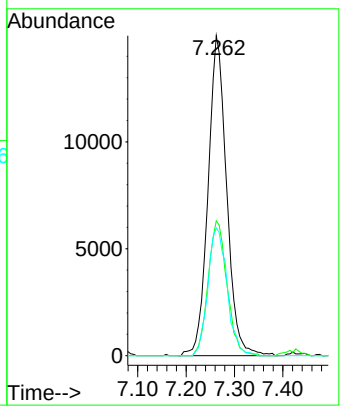


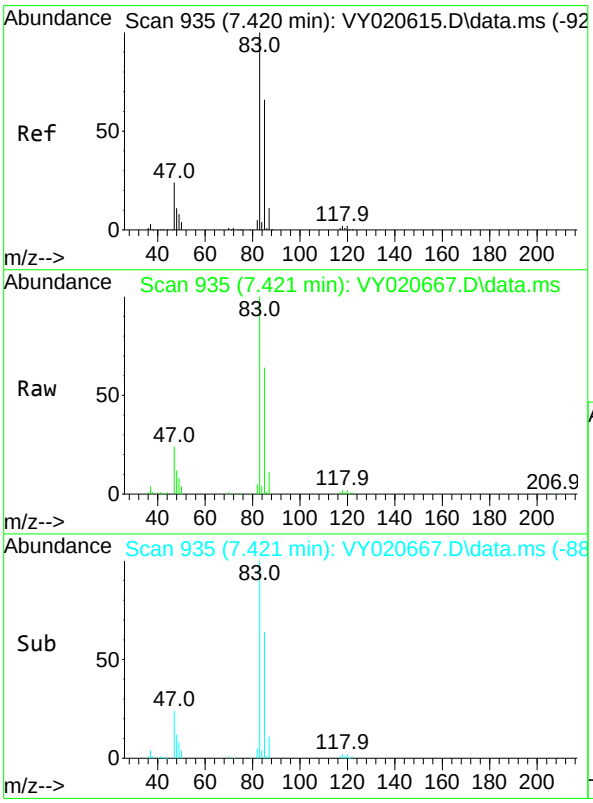

#29
Tetrahydrofuran
Concen: 100.545 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 42 Resp: 39939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.6 | 34.0 | 51.0 |
| 71 | 41.5 | 31.6 | 47.4 |

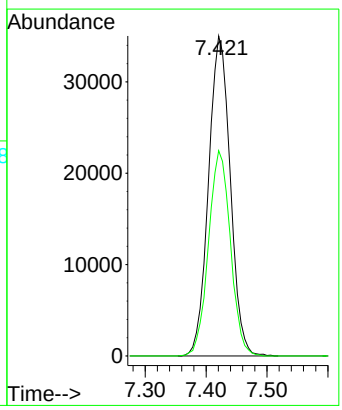


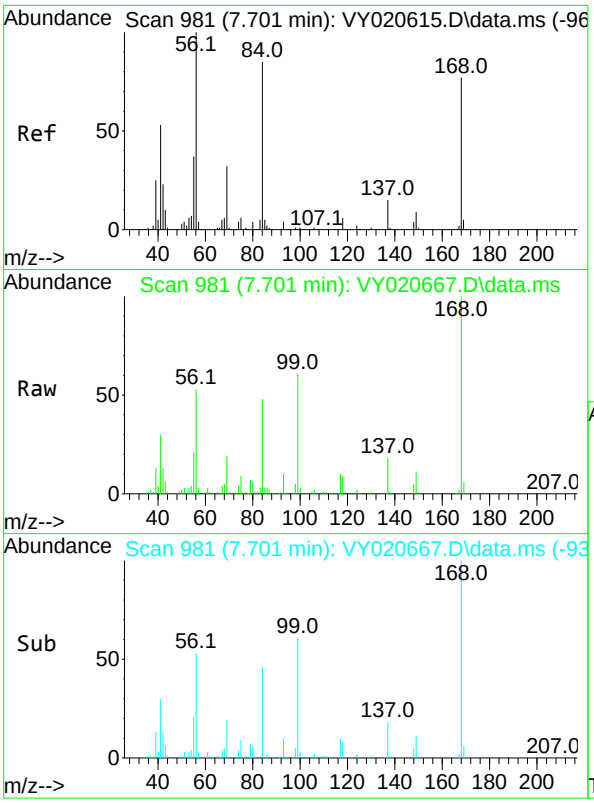




#30
Chloroform
Concen: 18.008 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 83 Resp: 86753

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 52.7 | 79.1 |



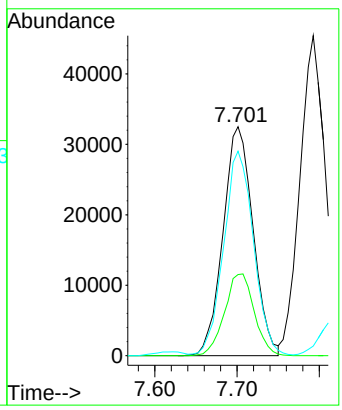


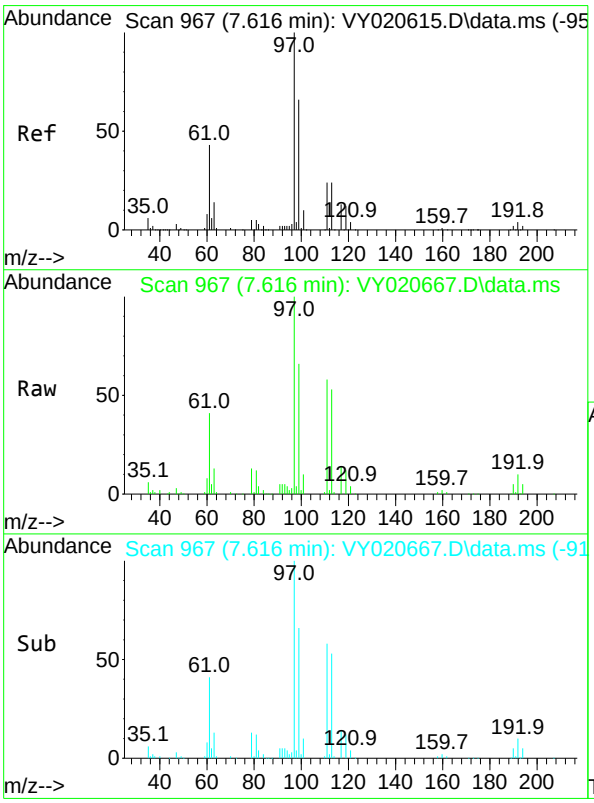

#31
Cyclohexane
Concen: 21.435 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 56 Resp: 82760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 35.4 | 25.4 | 38.0 |
| 84 | 87.7 | 68.3 | 102.5 |

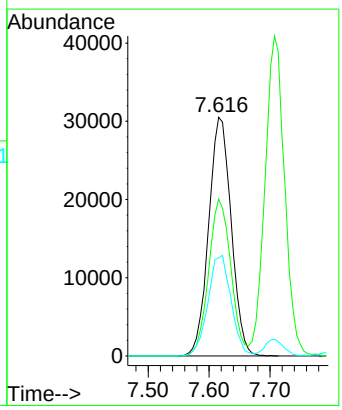


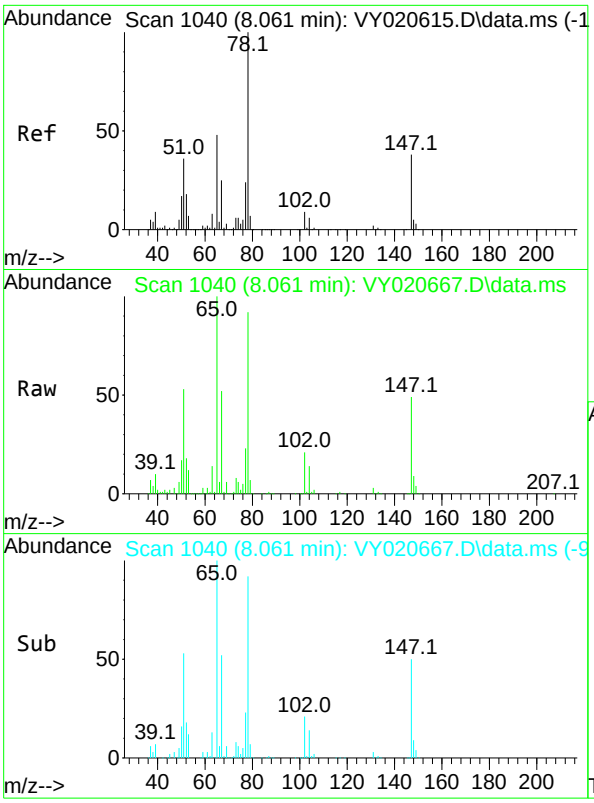




#32
1,1,1-Trichloroethane
Concen: 21.184 ug/l
RT: 7.616 min Scan# 967
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 97 Resp: 78587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.9 | 51.6 | 77.4 |
| 61 | 43.4 | 34.7 | 52.1 |



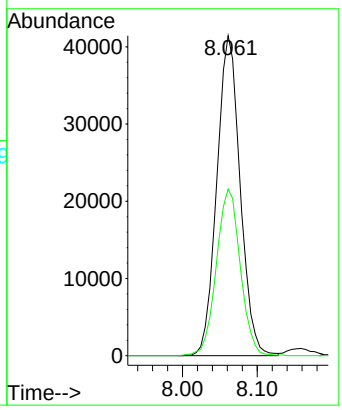


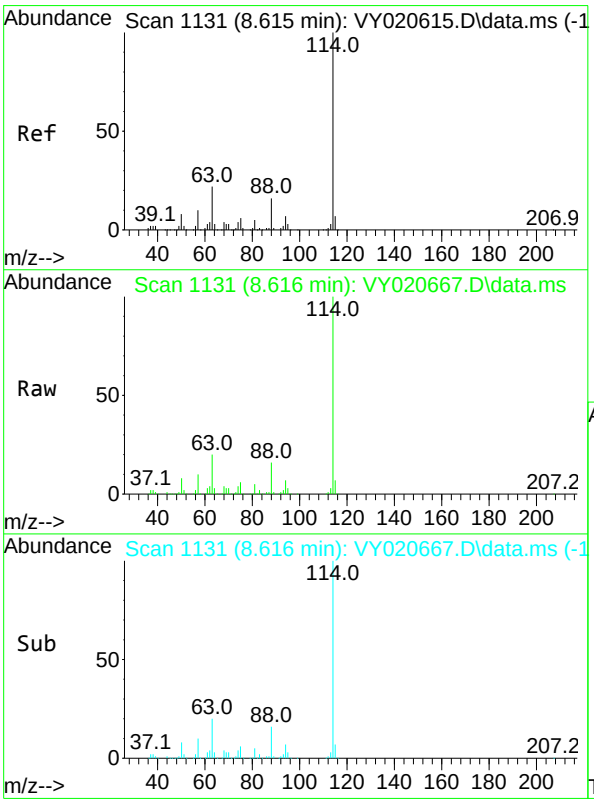

#33
1,2-Dichloroethane-d4
Concen: 53.026 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 65 Resp: 89782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.4 | 0.0 | 108.0 |

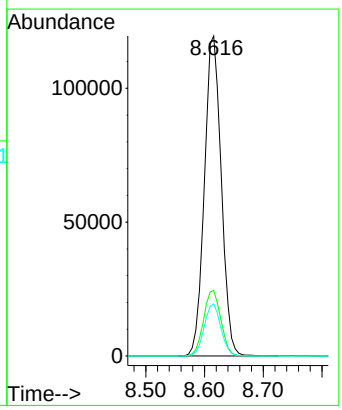


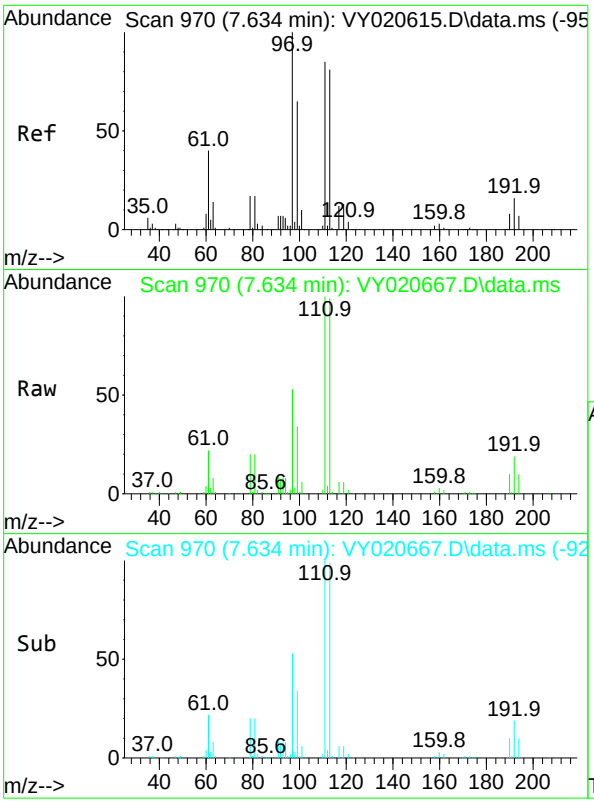




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:114 Resp: 238791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.5 | 0.0 | 44.0 |
| 88 | 16.3 | 0.0 | 32.8 |



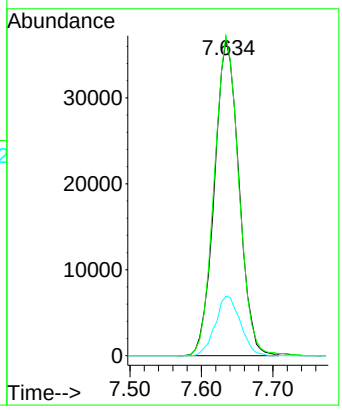


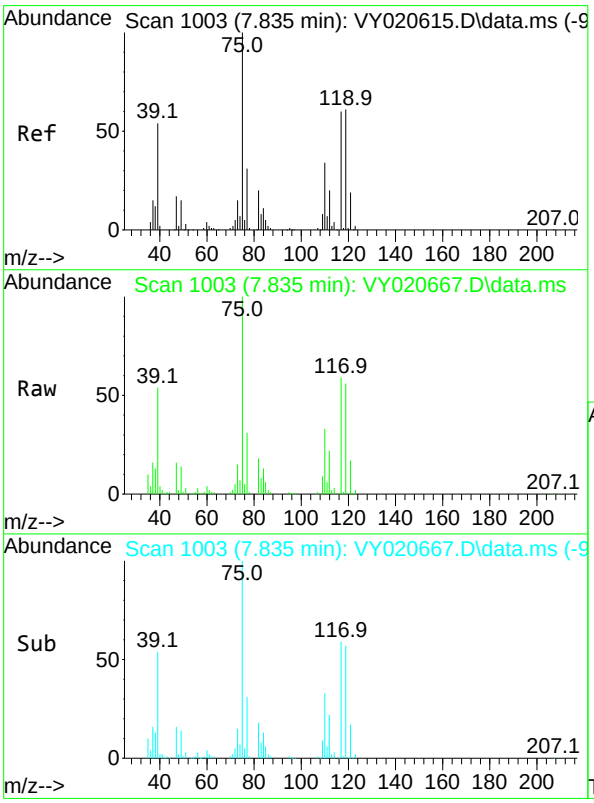

#35
Dibromofluoromethane
Concen: 51.973 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:113 Resp: 87467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.5 | 82.9 | 124.3 |
| 192 | 19.2 | 15.7 | 23.5 |

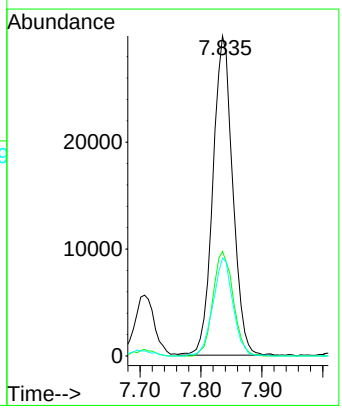


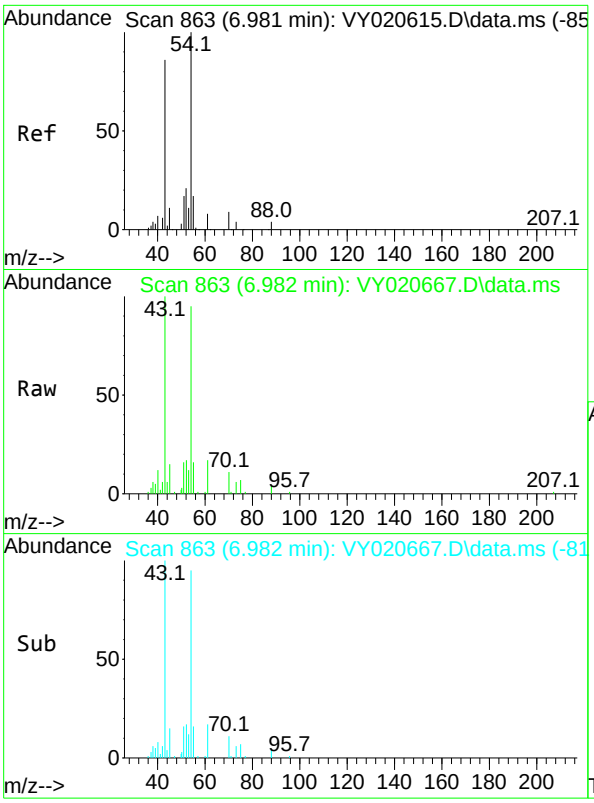




#36
1,1-Dichloropropene
Concen: 22.021 ug/l
RT: 7.835 min Scan# 1003
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 75 Resp: 67576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 33.5 | 16.8 | 50.4 |
| 77 | 30.9 | 25.0 | 37.6 |



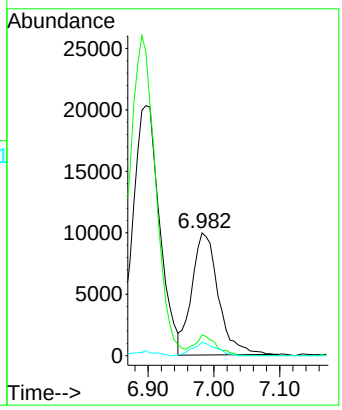


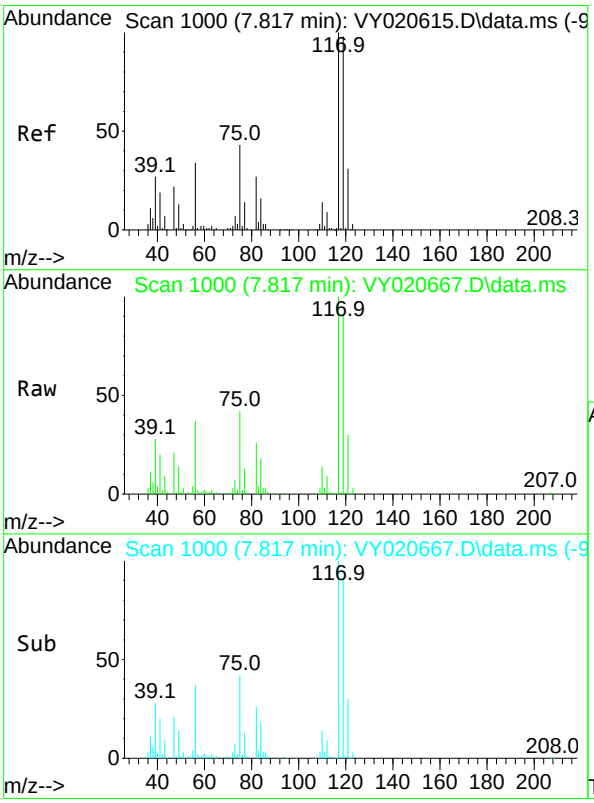

#37
Ethyl Acetate
Concen: 19.272 ug/l
RT: 6.982 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 43 Resp: 27819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.8 | 11.0 | 16.4 |
| 70 | 9.7 | 7.9 | 11.9 |

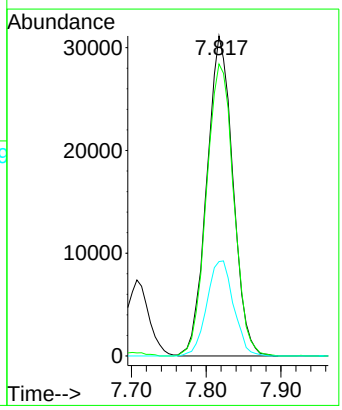


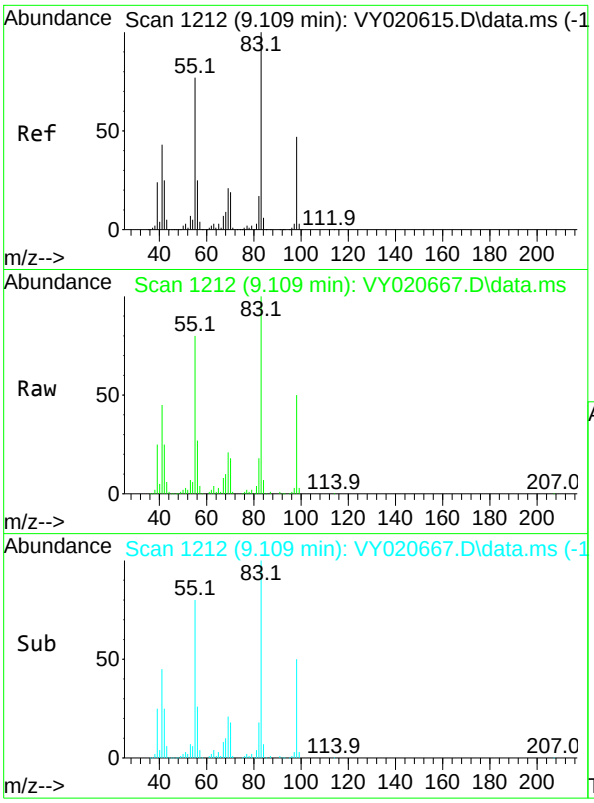




#38
Carbon Tetrachloride
Concen: 22.231 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:117 Resp: 75478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.2 | 78.3 | 117.5 |
| 121 | 29.5 | 25.1 | 37.7 |



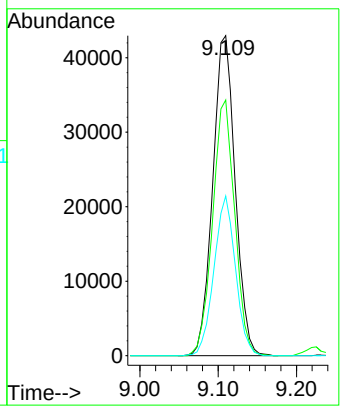


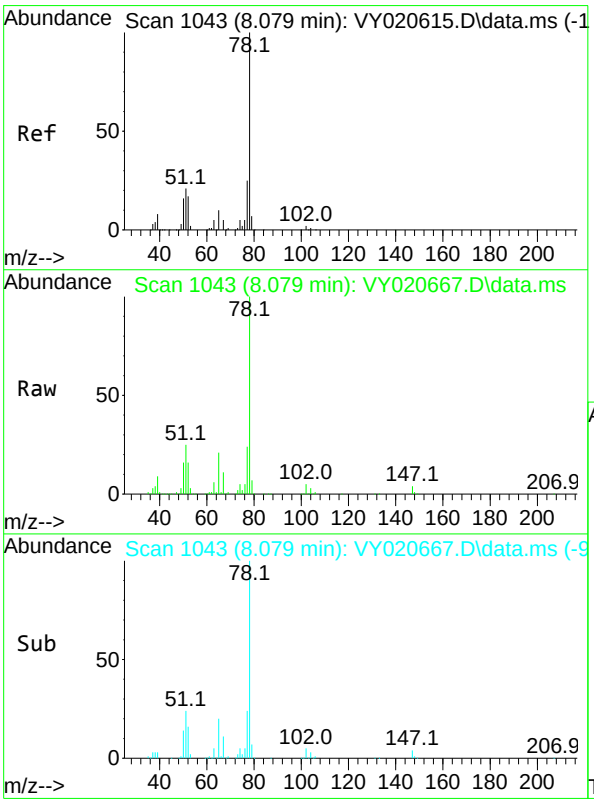

#39
Methylcyclohexane
Concen: 21.405 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 83 Resp: 85612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 79.9 | 61.4 | 92.0 |
| 98 | 49.9 | 37.3 | 55.9 |

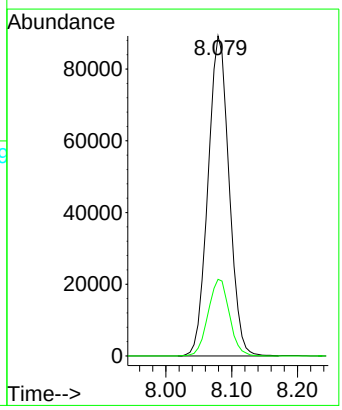


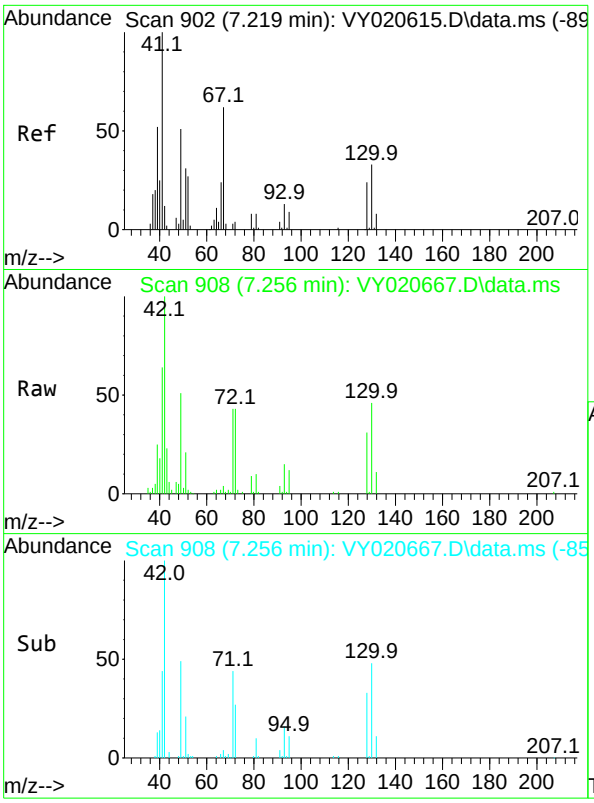




#40
Benzene
Concen: 22.121 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 78 Resp: 198978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 20.1 | 30.1 |



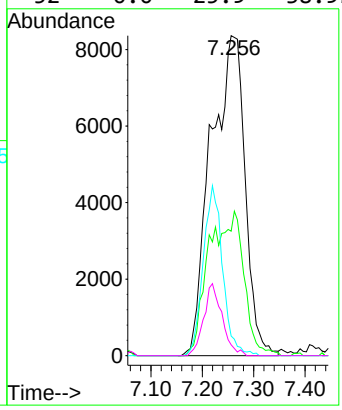


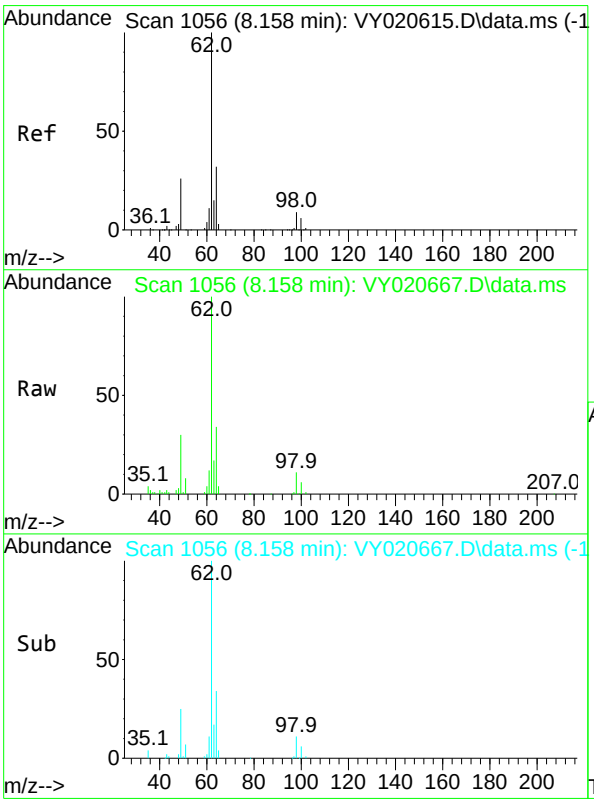

#41
Methacrylonitrile
Concen: 50.383 ug/l
RT: 7.256 min Scan# 9
Delta R.T. 0.037 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 41 Resp: 38449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 0.0 | 53.6 | 80.4# |
| 67 | 0.0 | 62.0 | 93.0# |
| 52 | 0.0 | 25.9 | 38.9# |

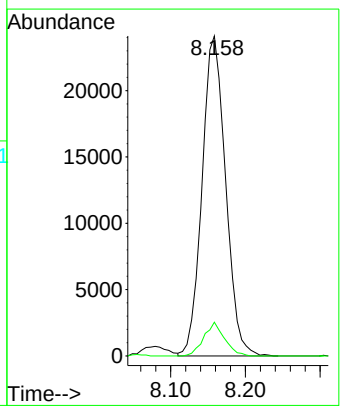


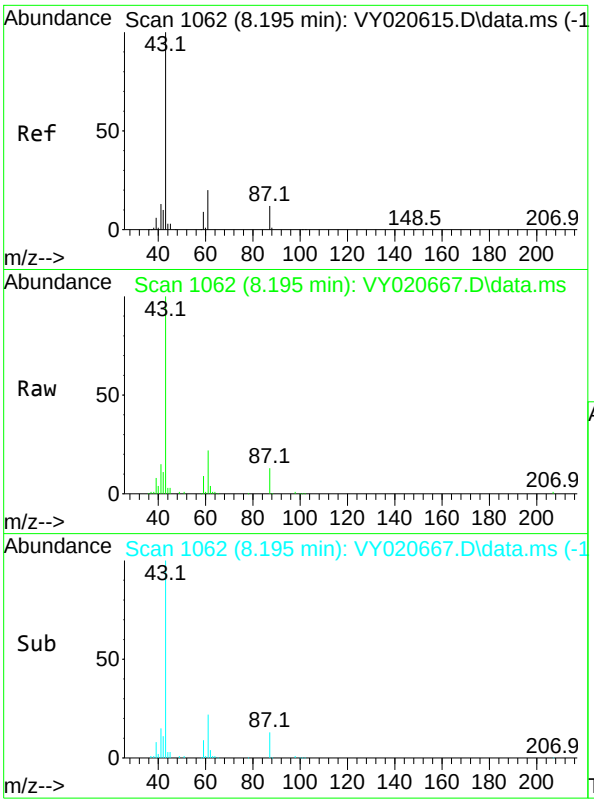




#42
1,2-Dichloroethane
Concen: 22.128 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 62 Resp: 52790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.3 | 0.0 | 18.0 |



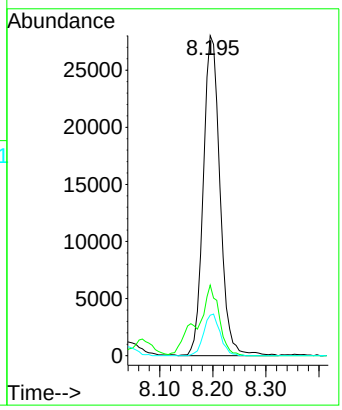


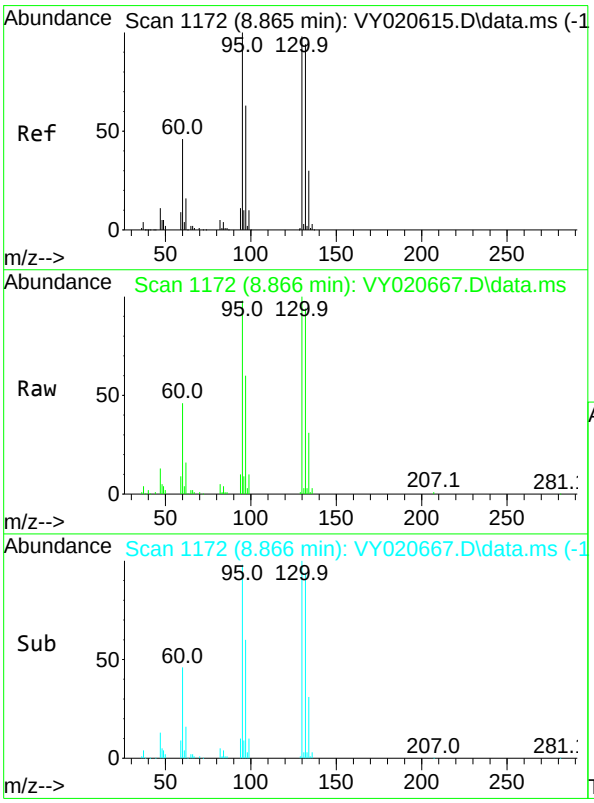

#43
Isopropyl Acetate
Concen: 22.464 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 43 Resp: 61389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.7 | 23.8 | 35.6# |
| 87 | 12.8 | 10.2 | 15.4 |

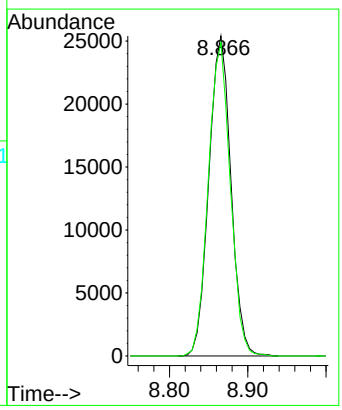


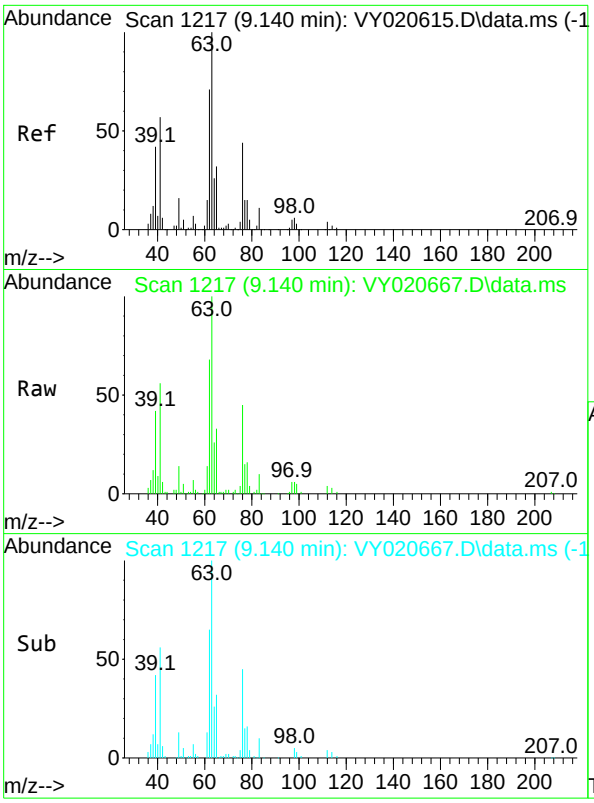




#44
Trichloroethene
Concen: 22.498 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:130 Resp: 49726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.0 | 0.0 | 203.2 |



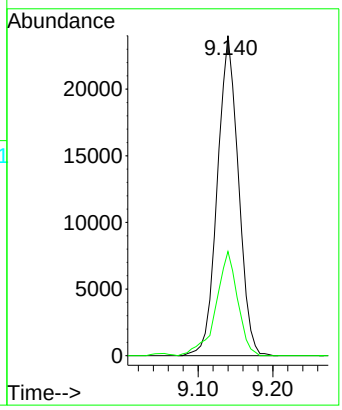


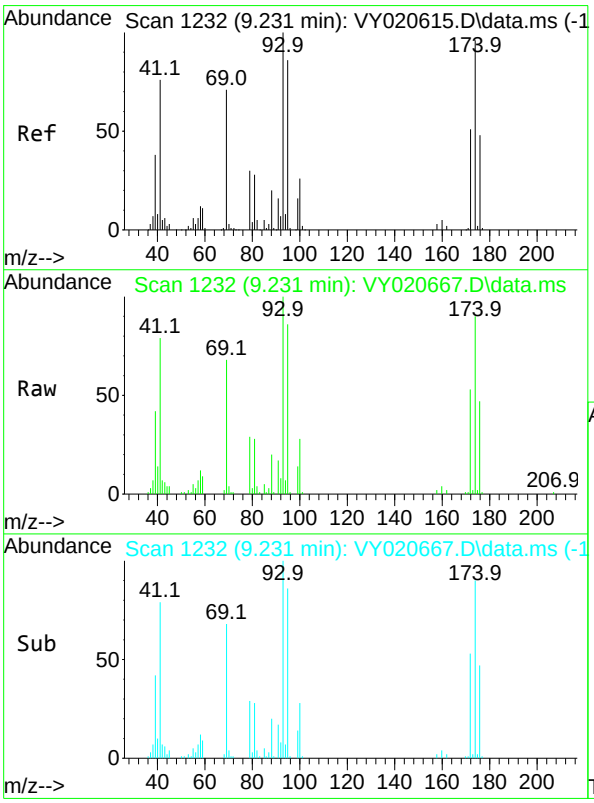

#45
1,2-Dichloropropane
Concen: 22.380 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 63 Resp: 47049

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.5 | 25.9 | 38.9 |

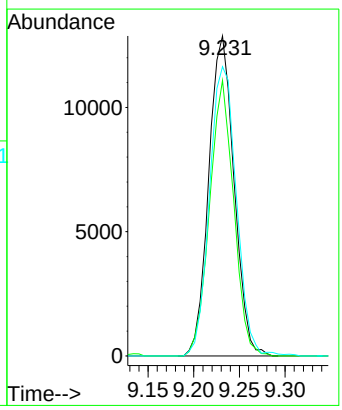


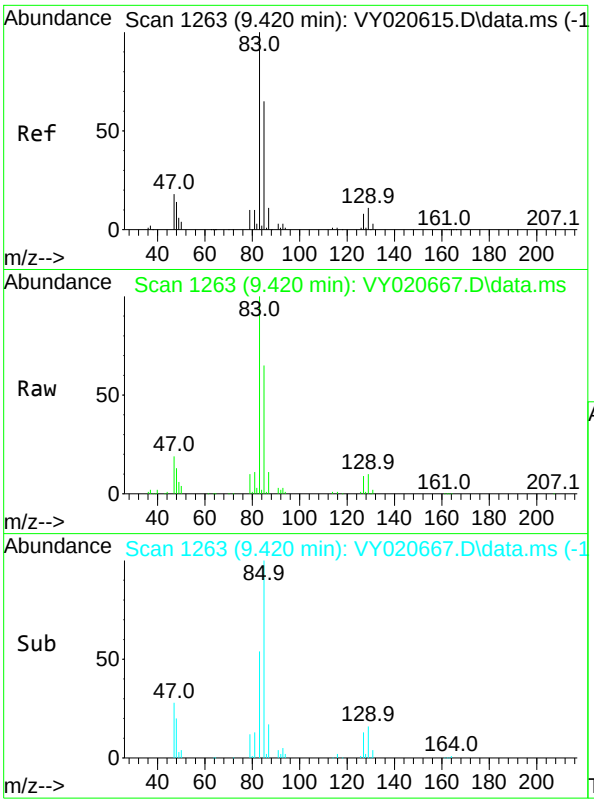




#46
Dibromomethane
Concen: 22.268 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 93 Resp: 24740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.0 | 66.7 | 100.1 |
| 174 | 96.3 | 77.8 | 116.6 |



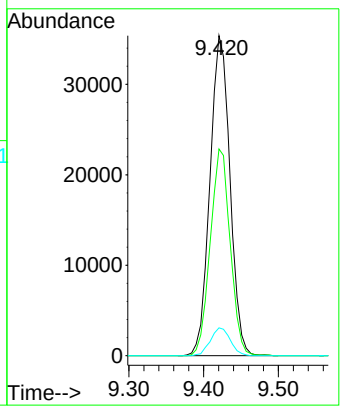


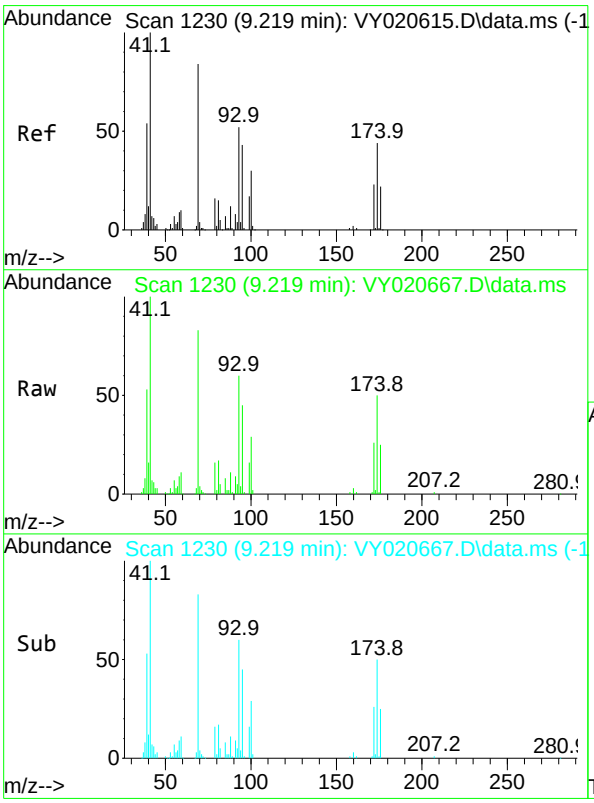

#47
Bromodichloromethane
Concen: 21.970 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 83 Resp: 65935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.6 | 52.1 | 78.1 |
| 127 | 8.7 | 6.7 | 10.1 |

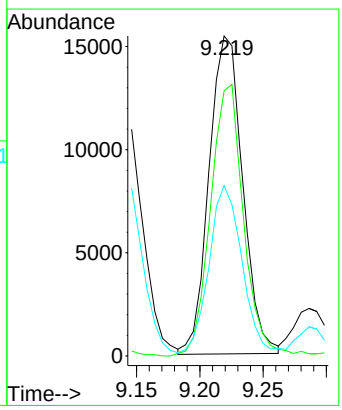


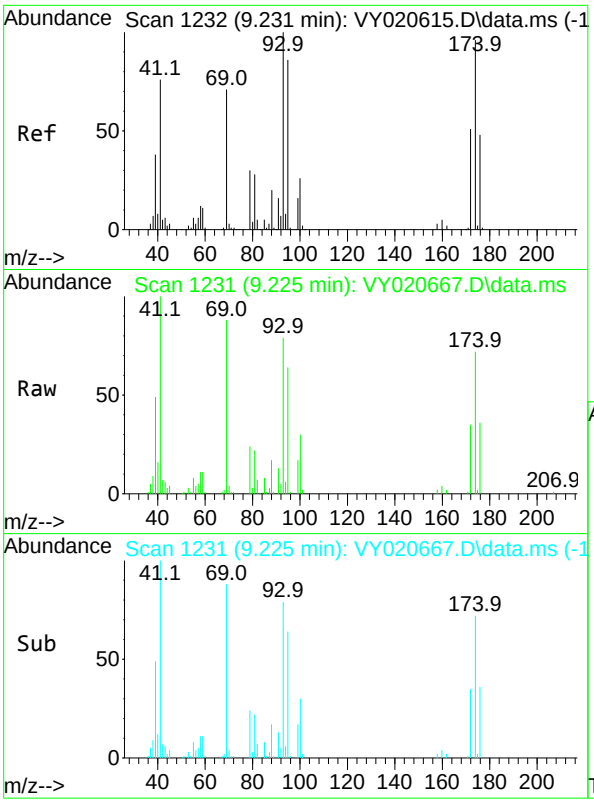




#48
Methyl methacrylate
Concen: 21.949 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 41 Resp: 28515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.2 | 67.2 | 100.8 |
| 39 | 51.7 | 42.2 | 63.4 |



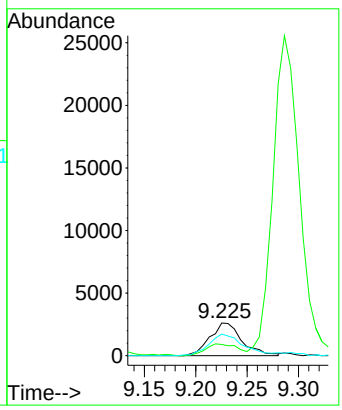


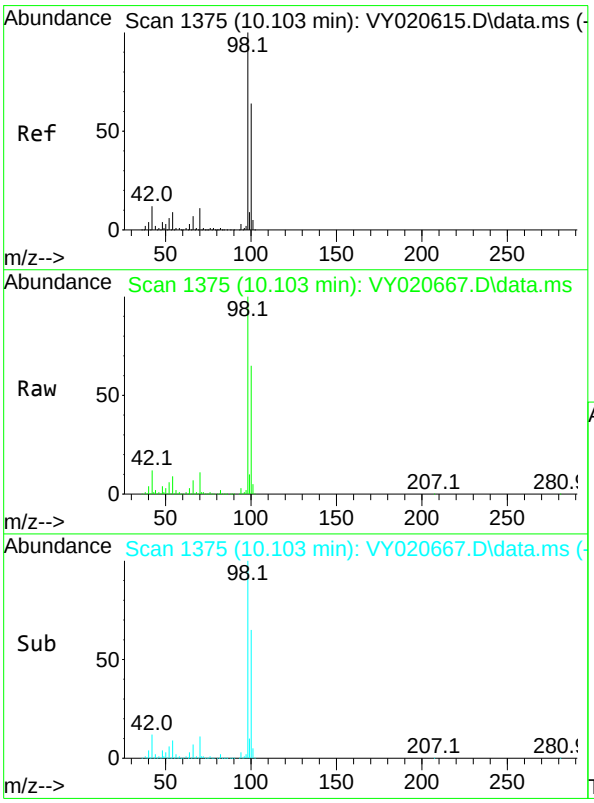

#49
1,4-Dioxane
Concen: 443.123 ug/l
RT: 9.225 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 88 Resp: 5646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 36.5 | 27.6 | 41.4 |
| 58 | 71.0 | 61.7 | 92.5 |

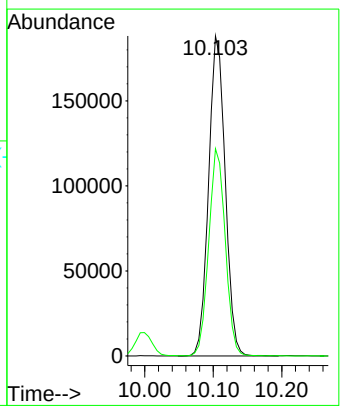


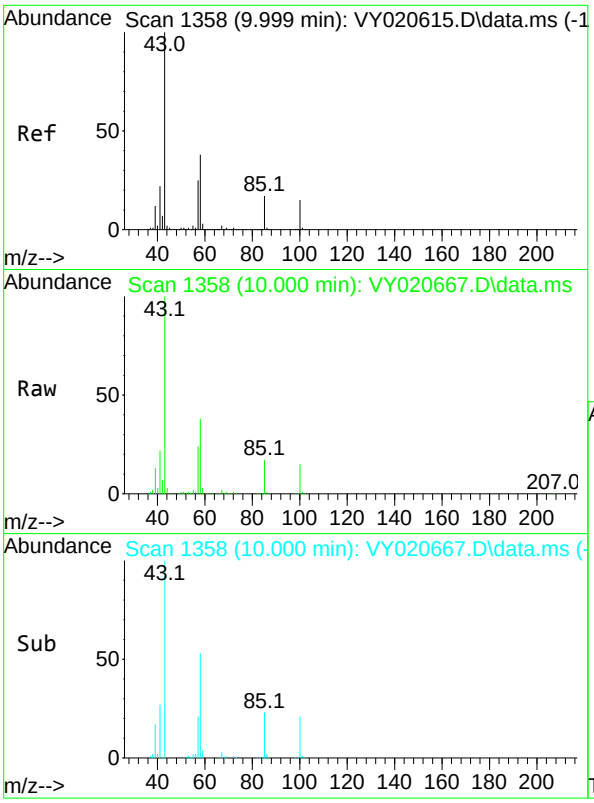




#50
Toluene-d8
Concen: 53.924 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 98 Resp: 317644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.4 | 52.1 | 78.1 |



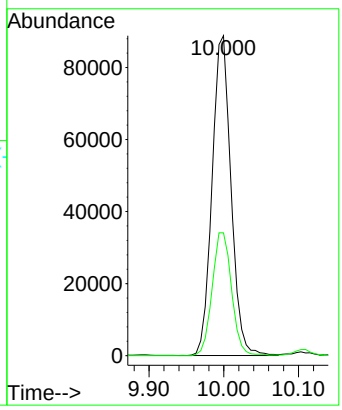


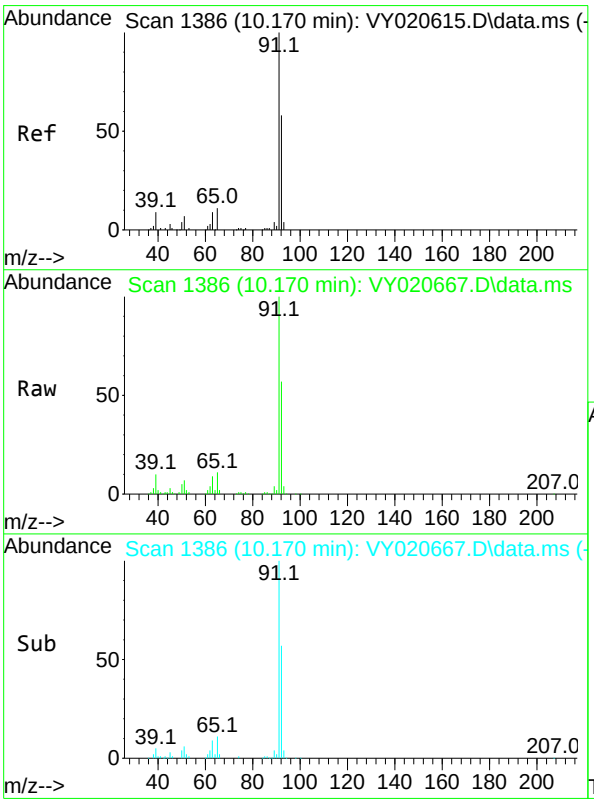

#51
4-Methyl-2-Pentanone
Concen: 108.373 ug/l
RT: 10.000 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 43 Resp: 156324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.6 | 31.4 | 47.2 |

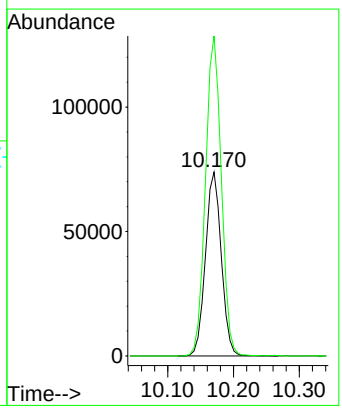


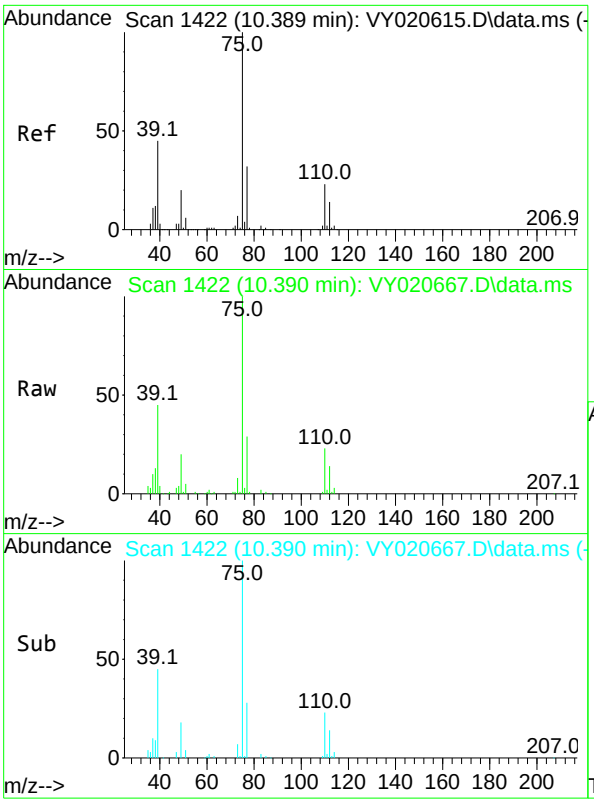




#52
Toluene
Concen: 22.124 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 92 Resp: 123673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.9 | 137.4 | 206.0 |



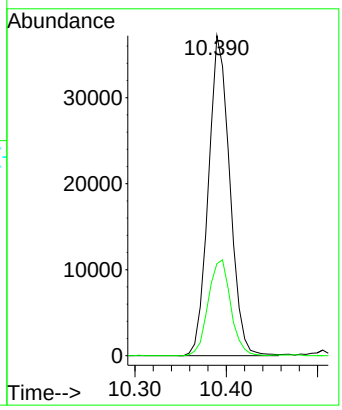


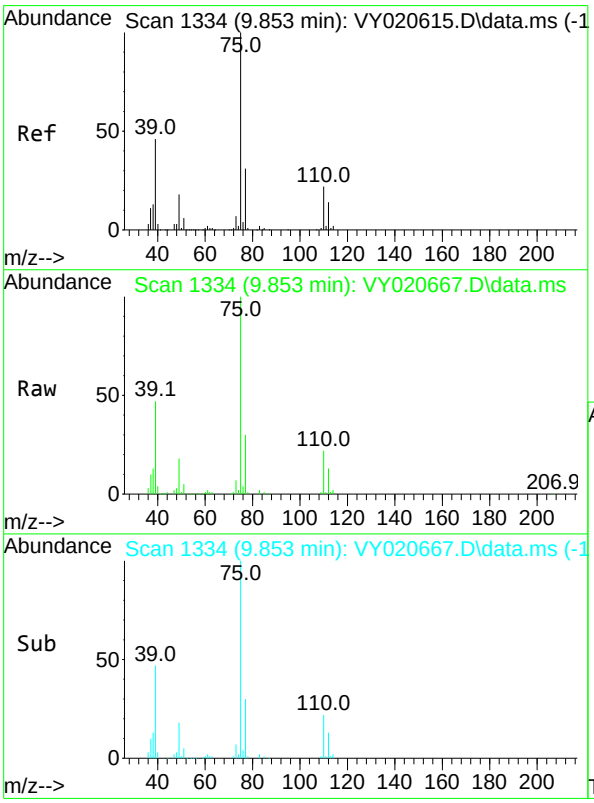

#53
t-1,3-Dichloropropene
Concen: 21.605 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 75 Resp: 60417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 28.8 | 25.4 | 38.2 |

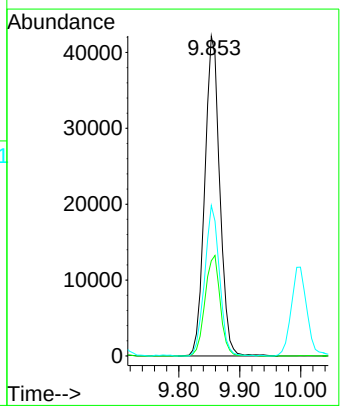


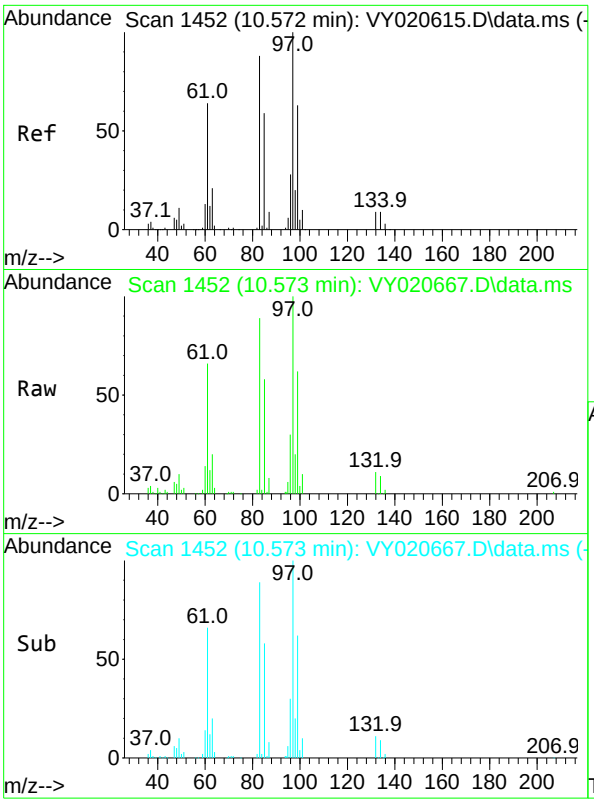




#54
cis-1,3-Dichloropropene
Concen: 21.830 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 75 Resp: 72340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.7 | 24.6 | 36.8 |
| 39 | 47.0 | 36.4 | 54.6 |



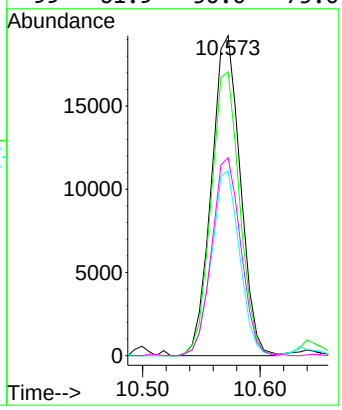


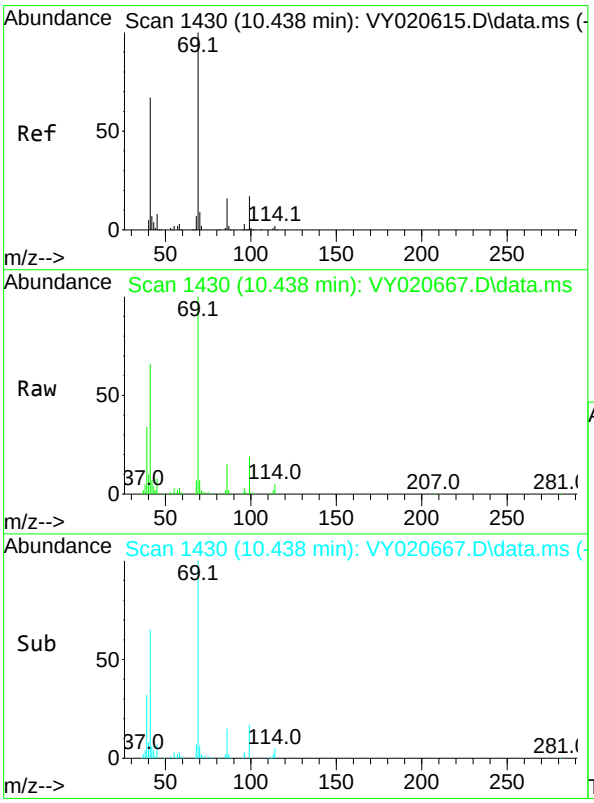

#55
1,1,2-Trichloroethane
Concen: 22.365 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 97 Resp: 32853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.7 | 70.4 | 105.6 |
| 85 | 57.8 | 47.2 | 70.8 |
| 99 | 61.9 | 50.0 | 75.0 |

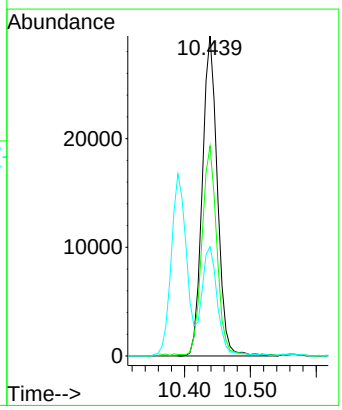


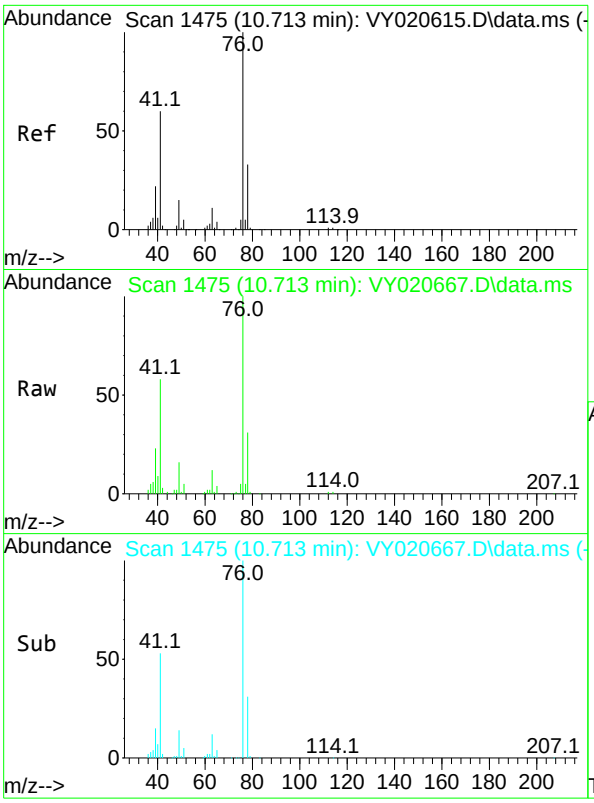




#56
Ethyl methacrylate
Concen: 22.024 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 69 Resp: 46933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 63.7 | 54.0 | 81.0 |
| 39 | 34.6 | 27.9 | 41.9 |



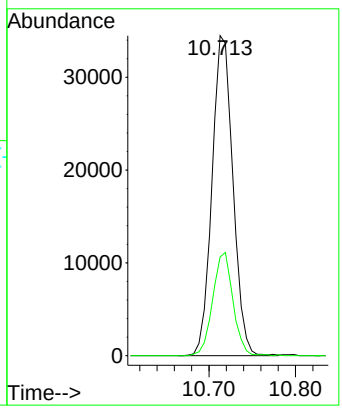


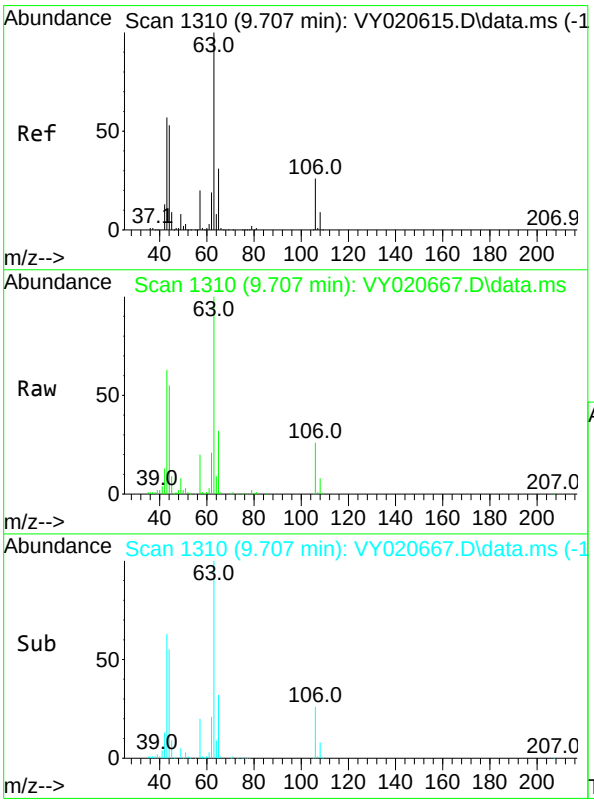

#57
1,3-Dichloropropane
Concen: 22.103 ug/l
RT: 10.713 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 76 Resp: 57877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.3 | 25.8 | 38.8 |

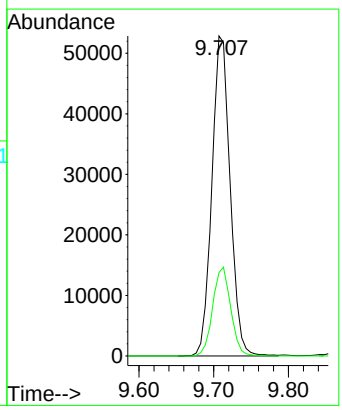


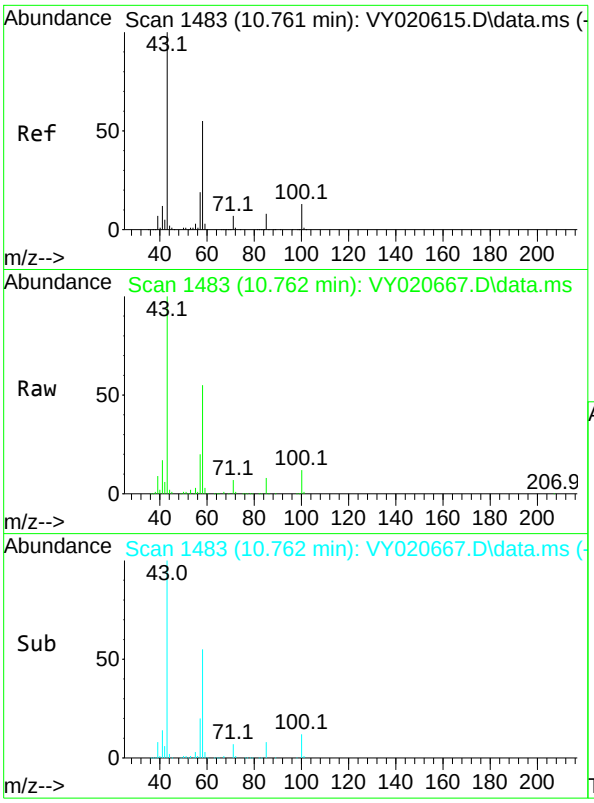




#58
2-Chloroethyl Vinyl ether
Concen: 100.257 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 63 Resp: 89896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.3 | 21.5 | 32.3 |



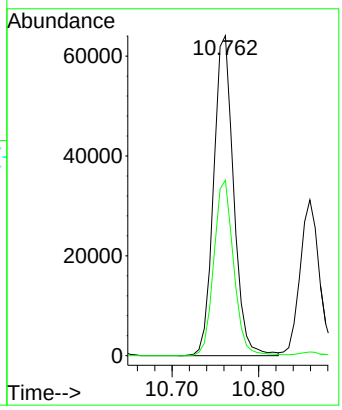


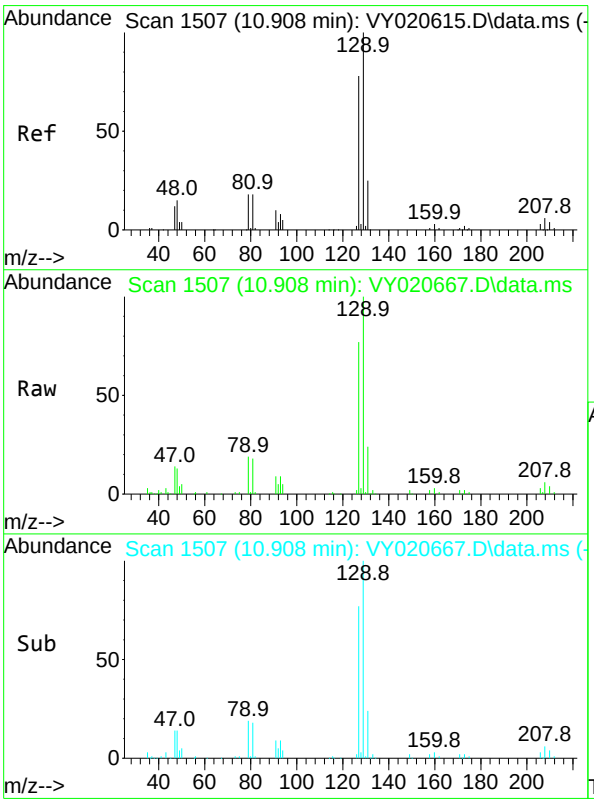

#59
2-Hexanone
Concen: 111.052 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 43 Resp: 102848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.3 | 27.2 | 81.6 |

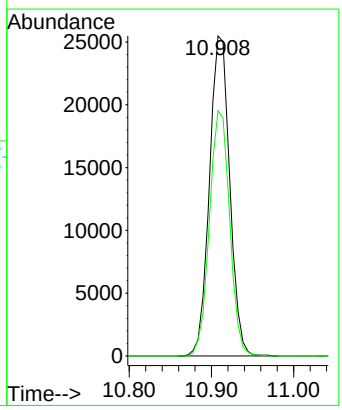


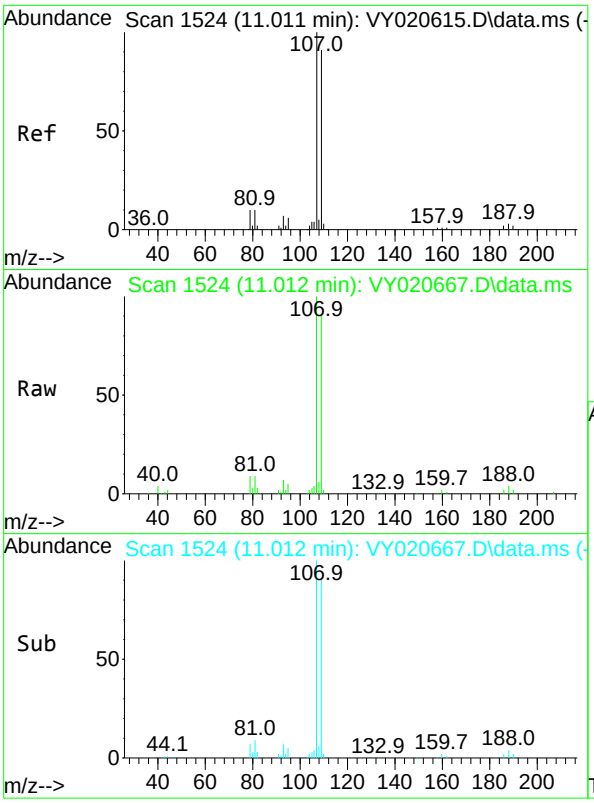




#60
Dibromochloromethane
Concen: 22.179 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:129 Resp: 43570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.6 | 38.1 | 114.3 |



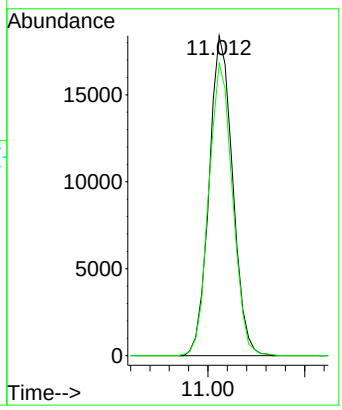


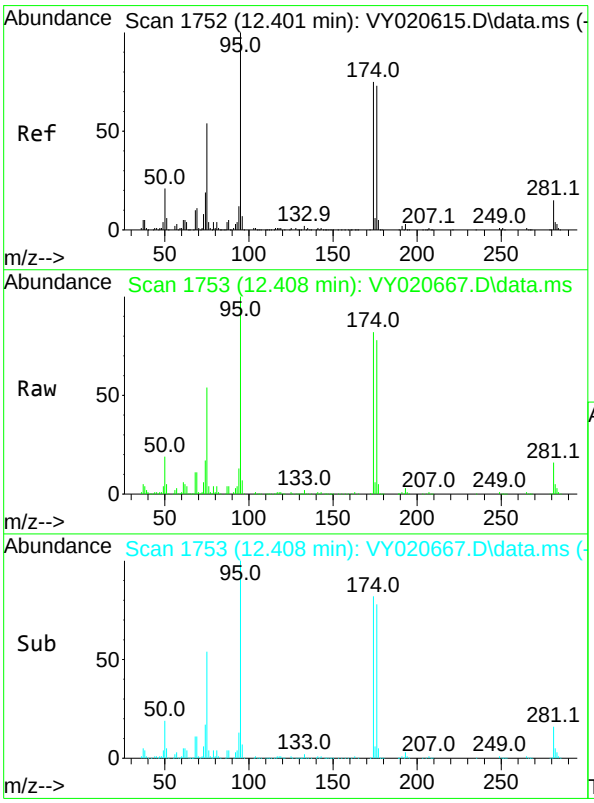

#61
1,2-Dibromoethane
Concen: 22.750 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:107 Resp: 31084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.3 | 75.4 | 113.2 |

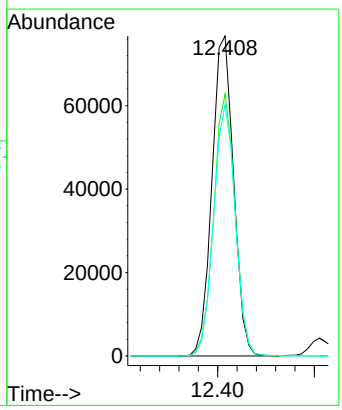


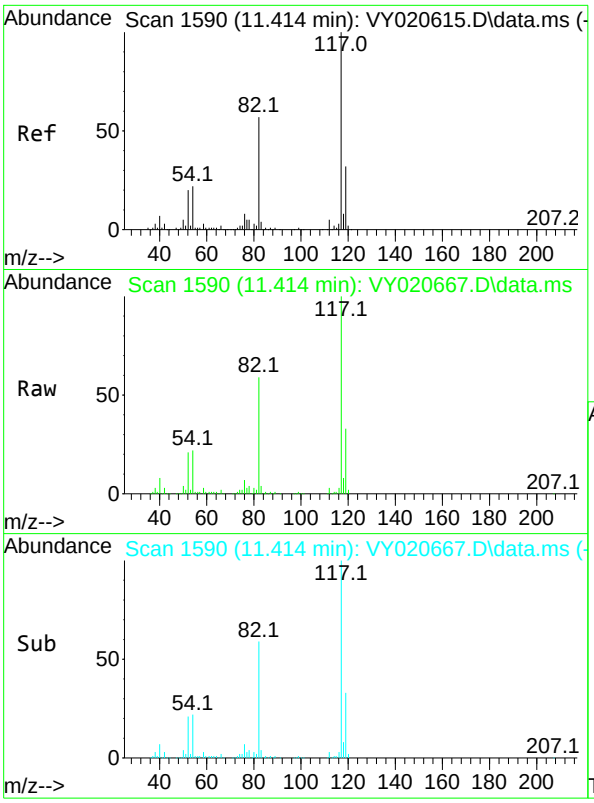




#62
4-Bromofluorobenzene
Concen: 51.581 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 95 Resp: 118853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.0 | 0.0 | 161.8 |
| 176 | 78.5 | 0.0 | 156.6 |



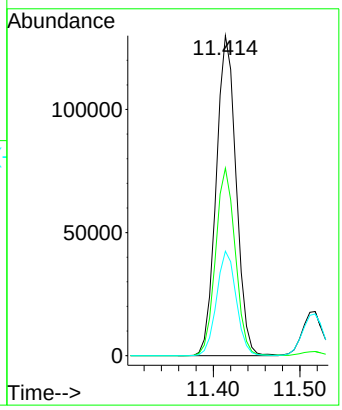


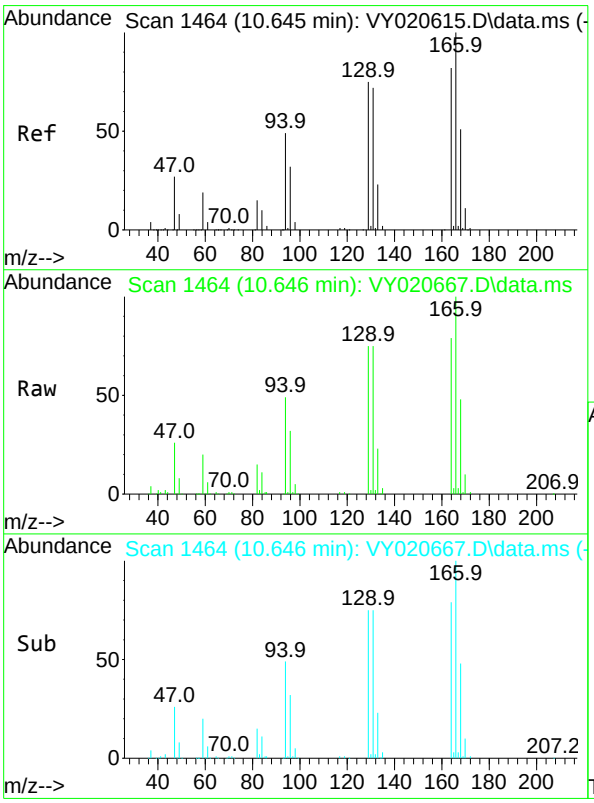

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:117 Resp: 207851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.6 | 45.8 | 68.6 |
| 119 | 32.7 | 25.3 | 37.9 |

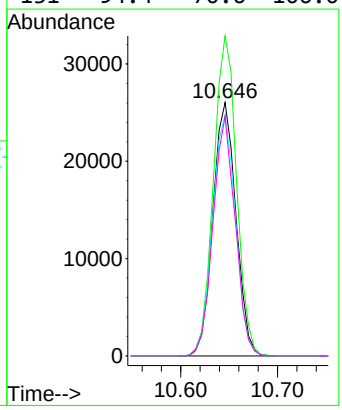


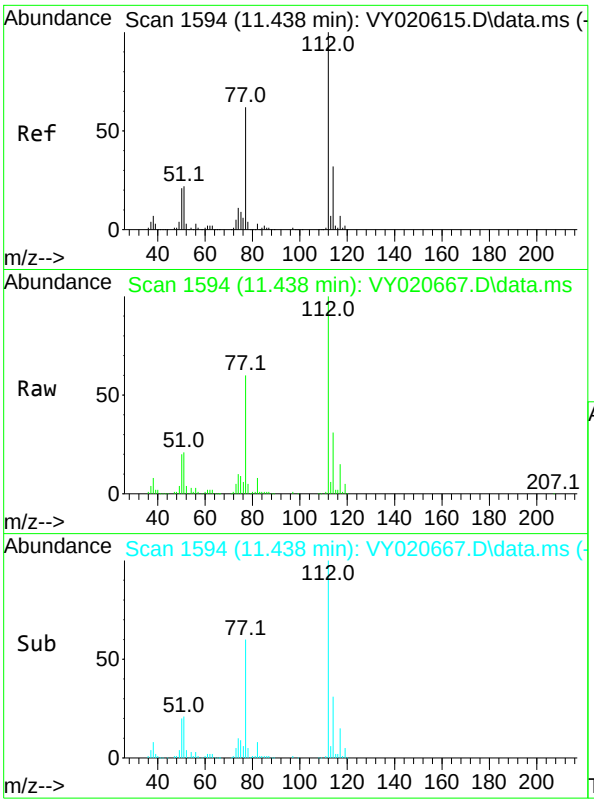




#64
Tetrachloroethene
Concen: 22.078 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:164 Resp: 43165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.2 | 97.9 | 146.9 |
| 129 | 95.1 | 73.4 | 110.0 |
| 131 | 94.4 | 70.6 | 106.0 |



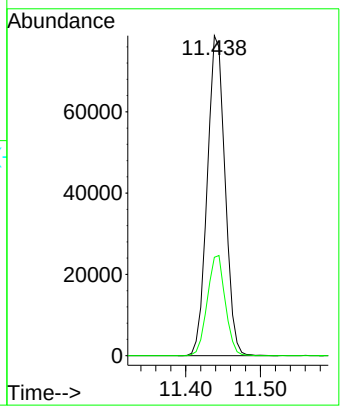


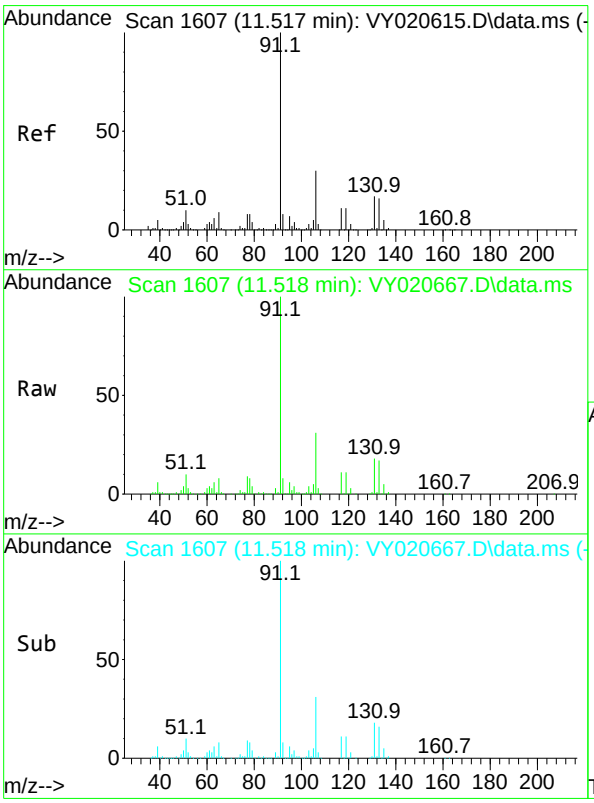

#65
Chlorobenzene
Concen: 22.358 ug/l
RT: 11.438 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:112 Resp: 129936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.8 | 26.0 | 39.0 |

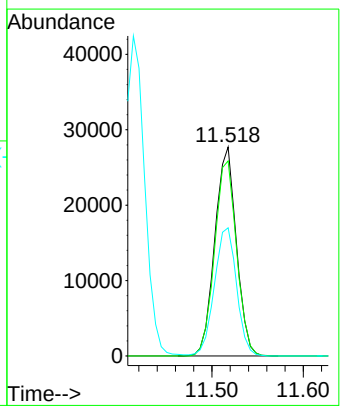


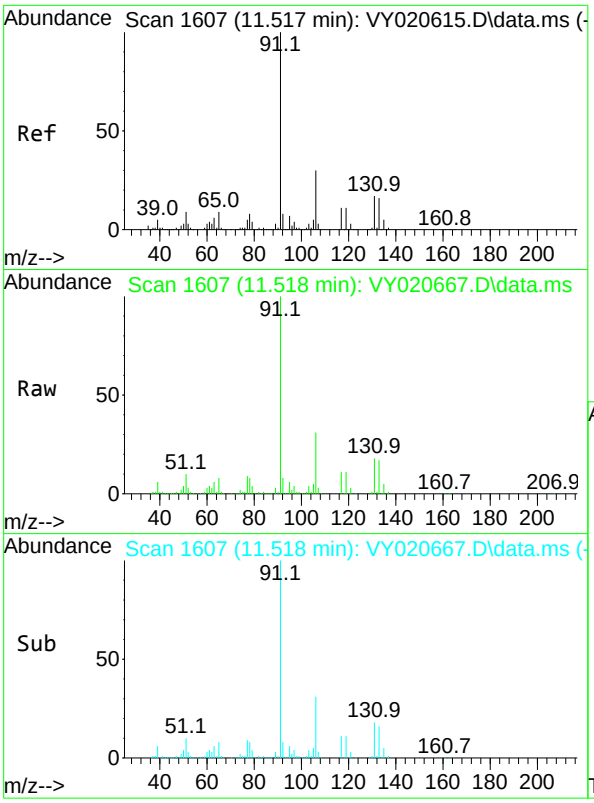




#66
1,1,1,2-Tetrachloroethane
Concen: 22.826 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:131 Resp: 45362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.4 | 46.8 | 140.3 |
| 119 | 63.1 | 31.8 | 95.3 |



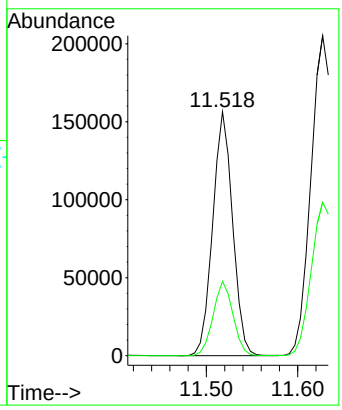


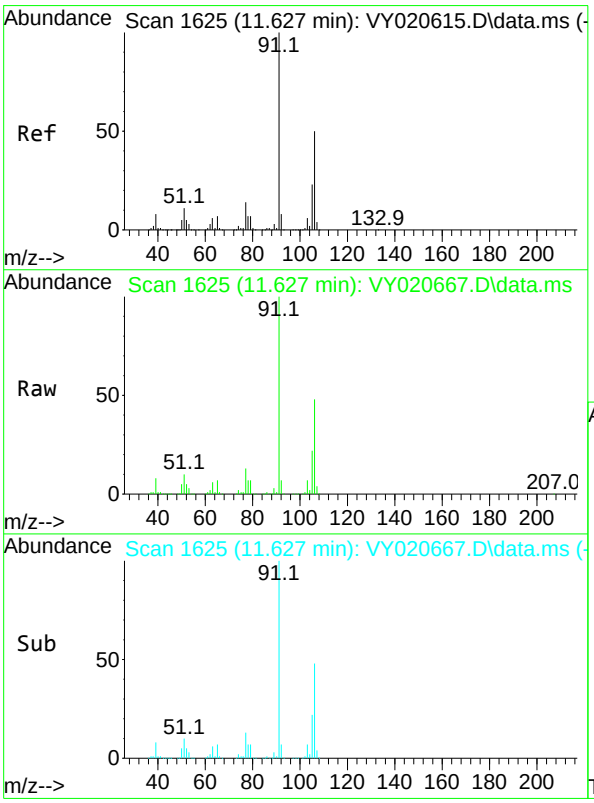

#67
Ethyl Benzene
Concen: 22.074 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 91 Resp: 236674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.5 | 23.9 | 35.9 |

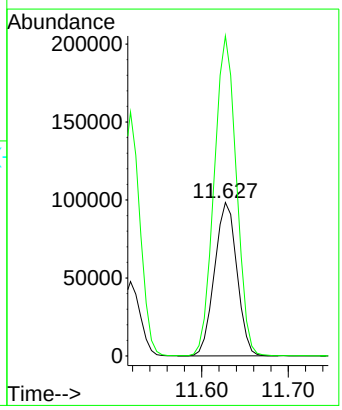


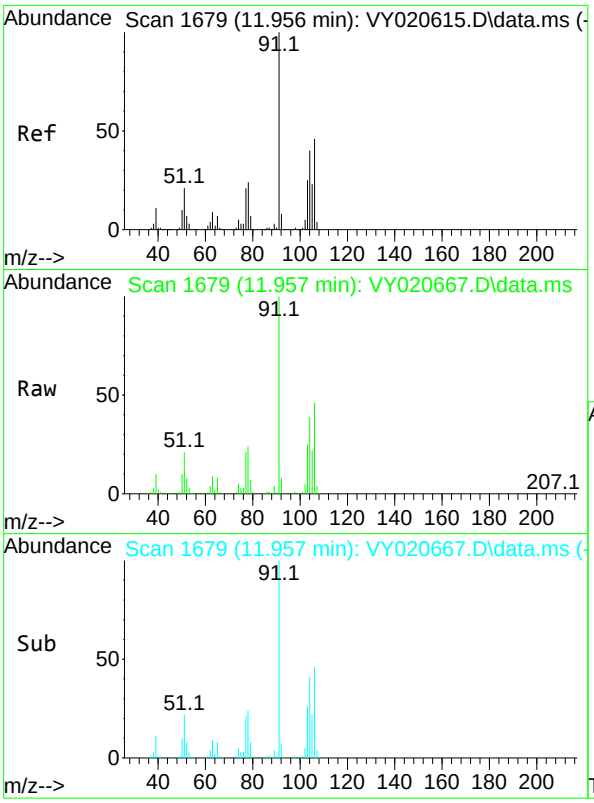




#68
m/p-Xylenes
Concen: 44.301 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:106 Resp: 176607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.0 | 165.0 | 247.4 |



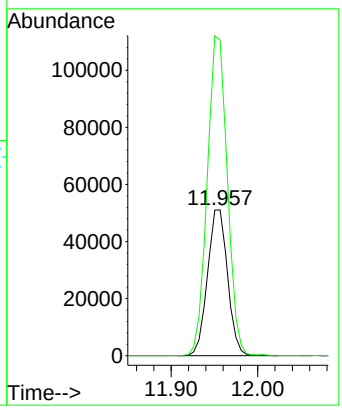


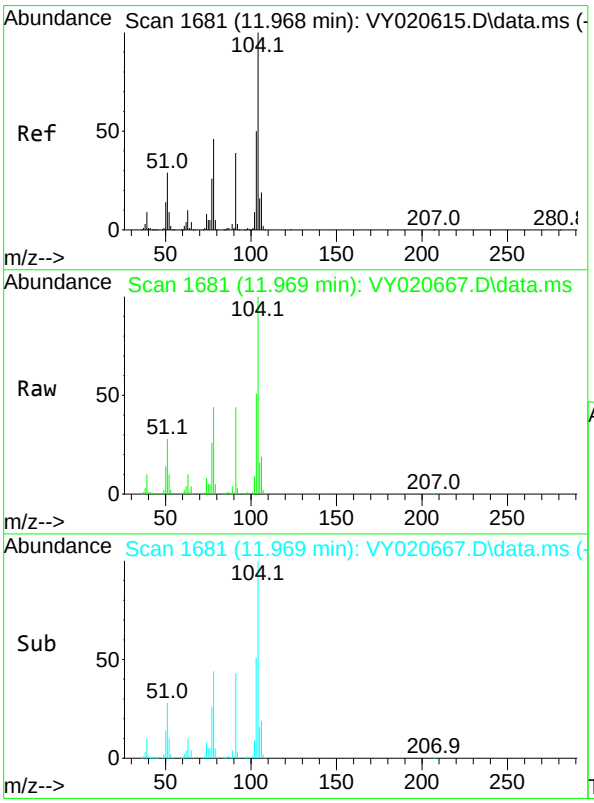

#69
o-Xylene
Concen: 22.127 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:106 Resp: 82303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.8 | 108.4 | 325.2 |

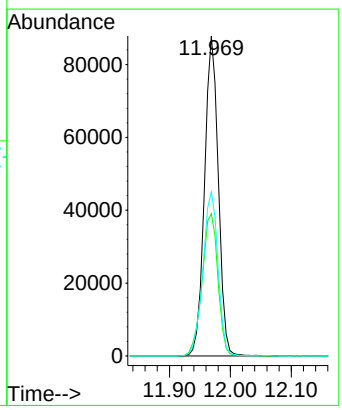


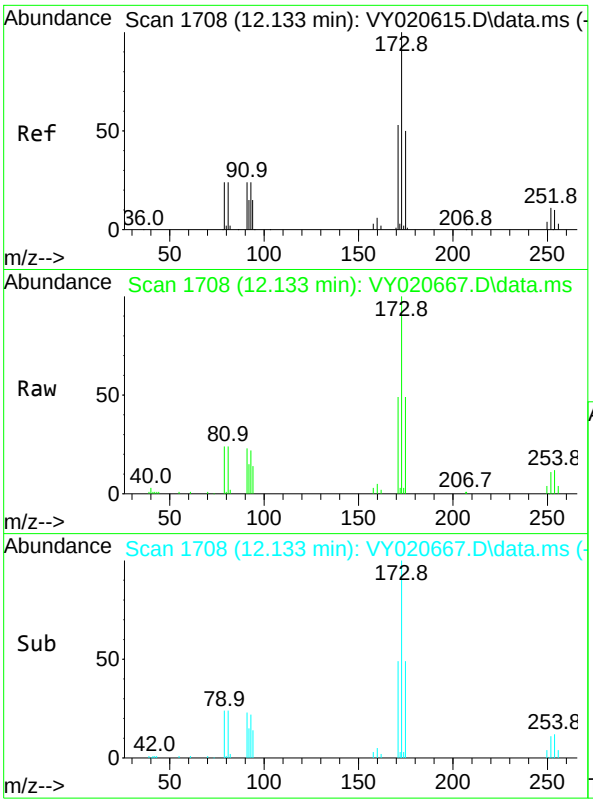




#70
Styrene
Concen: 22.284 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:104 Resp: 138486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.7 | 41.6 | 62.4 |
| 103 | 56.2 | 43.7 | 65.5 |



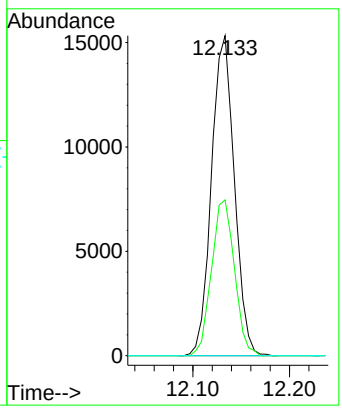


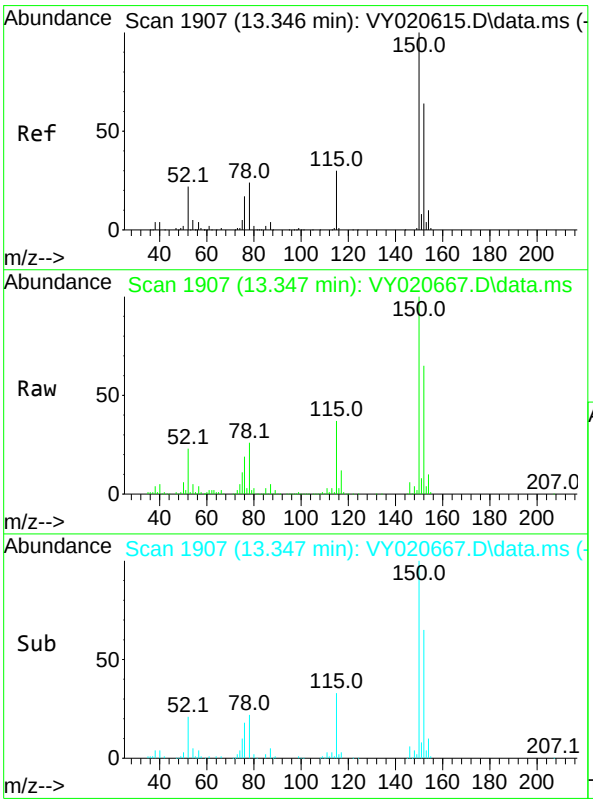

#71
Bromoform
Concen: 22.556 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:173 Resp: 25202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.7 | 24.6 | 74.0 |
| 254 | 0.0 | 0.0 | 0.0 |

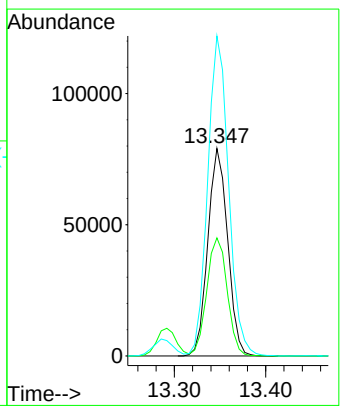


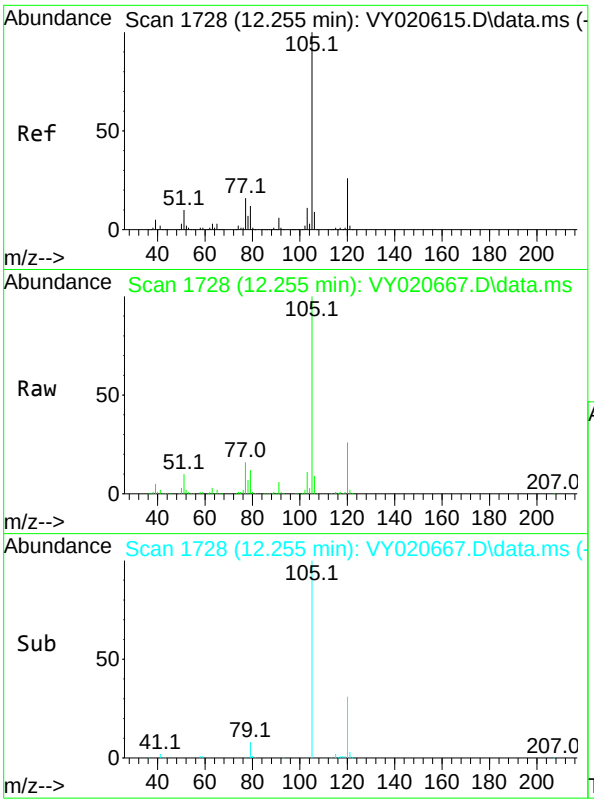




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:152 Resp: 118816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.7 | 30.2 | 90.6 |
| 150 | 163.0 | 0.0 | 355.4 |



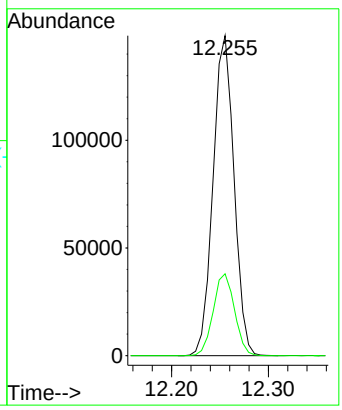


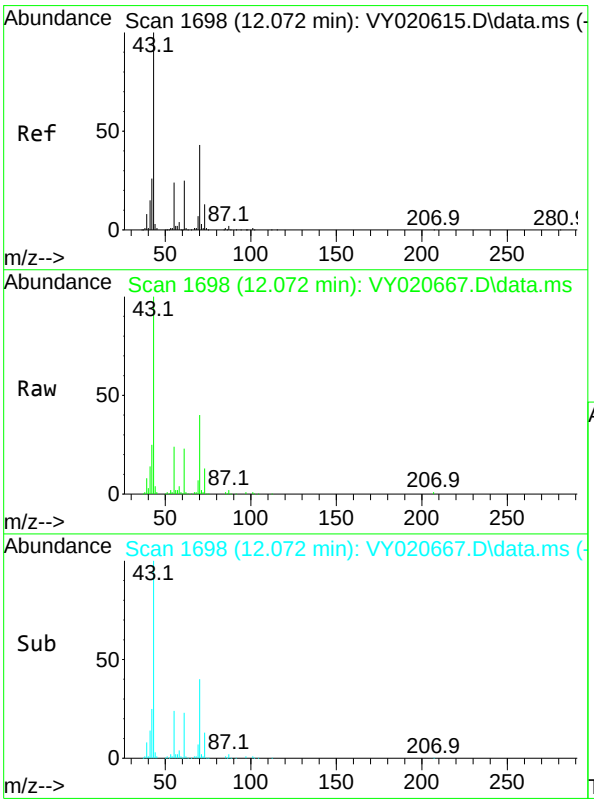

#73
Isopropylbenzene
Concen: 21.536 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:105 Resp: 223291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.0 | 13.1 | 39.1 |

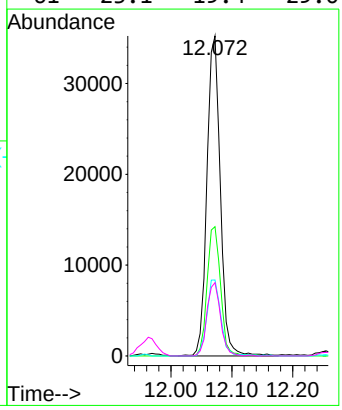


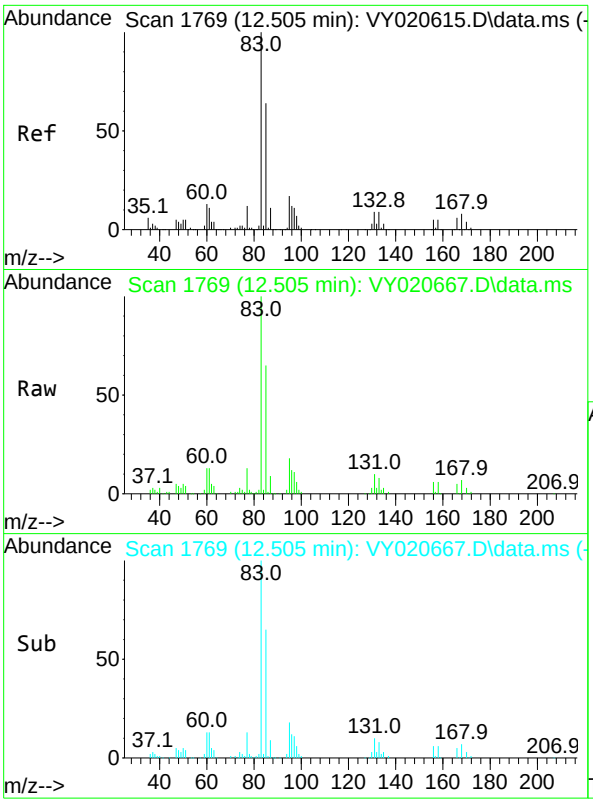




#74
N-amyl acetate
Concen: 22.269 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 43 Resp: 54037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 40.7 | 34.2 | 51.2 |
| 55 | 24.6 | 19.6 | 29.4 |
| 61 | 23.1 | 19.4 | 29.0 |



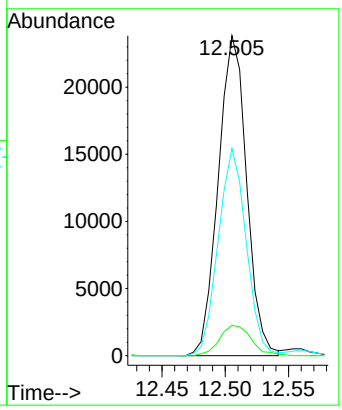


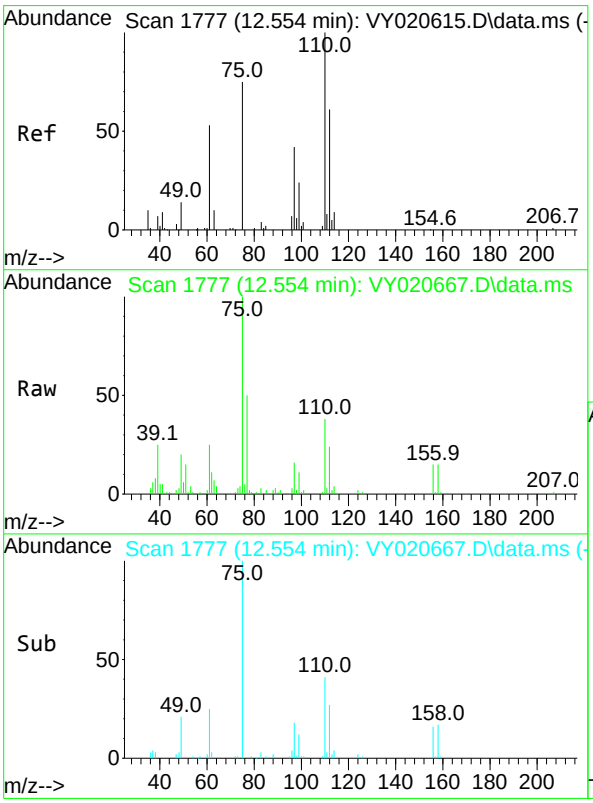

#75
1,1,2,2-Tetrachloroethane
Concen: 22.056 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 83 Resp: 37121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.6 | 5.2 | 15.6 |
| 85 | 63.8 | 32.5 | 97.4 |

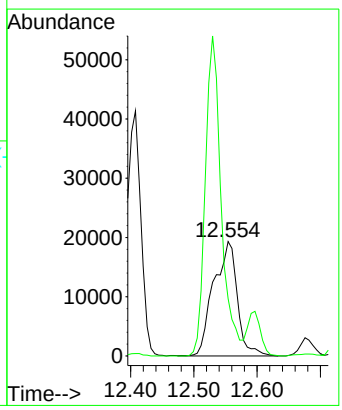


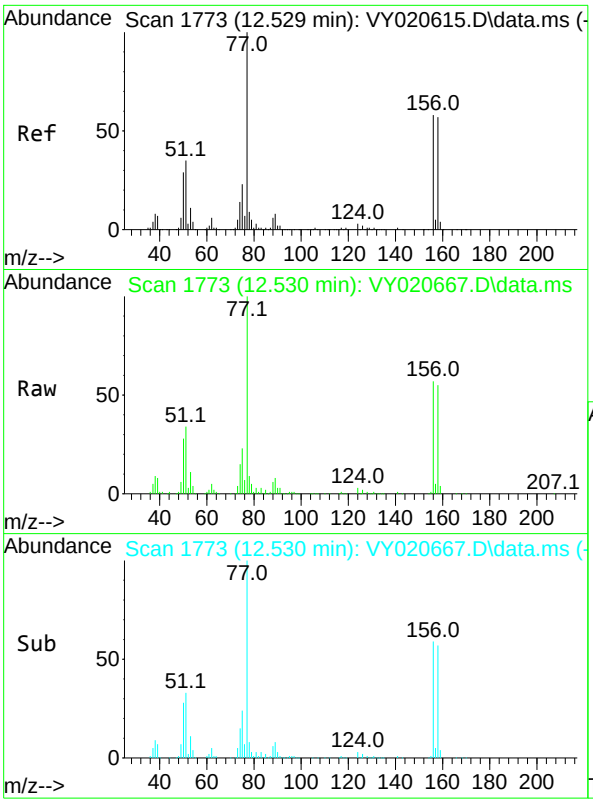




#76
1,2,3-Trichloropropane
Concen: 40.668 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 75 Resp: 50195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



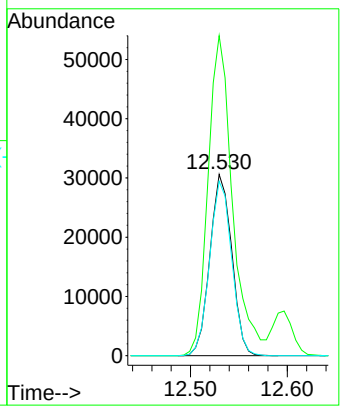


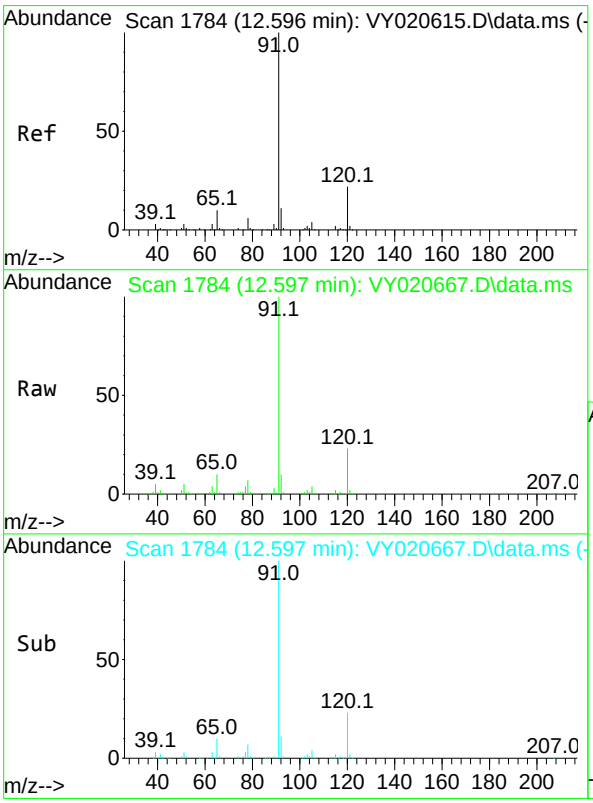

#77
Bromobenzene
Concen: 21.353 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:156 Resp: 48228

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 197.3 | 94.2 | 282.4 |
| 158 | 97.3 | 48.9 | 146.6 |

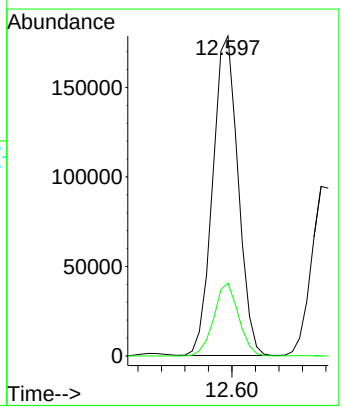


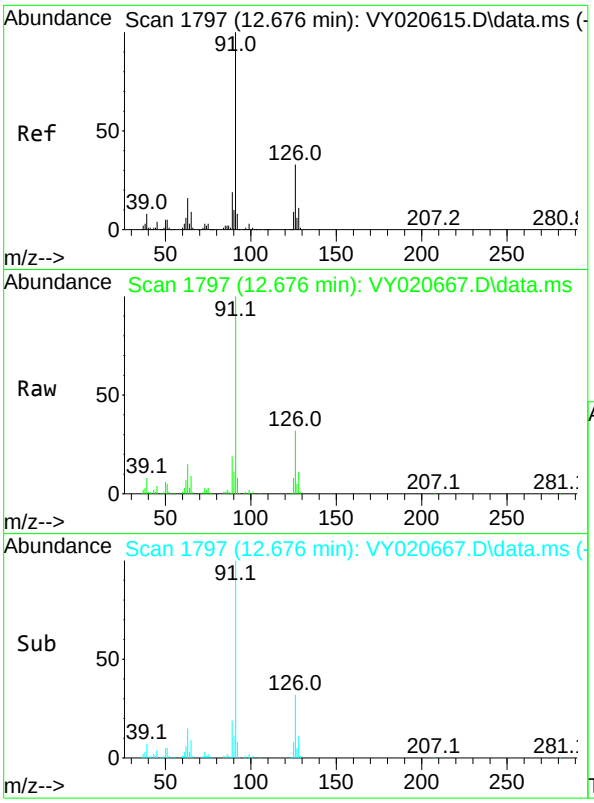




#78
n-propylbenzene
Concen: 21.448 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 91 Resp: 267926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.3 | 11.1 | 33.1 |



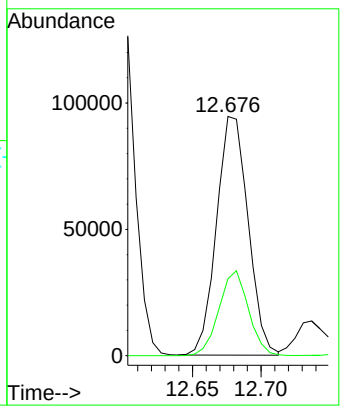


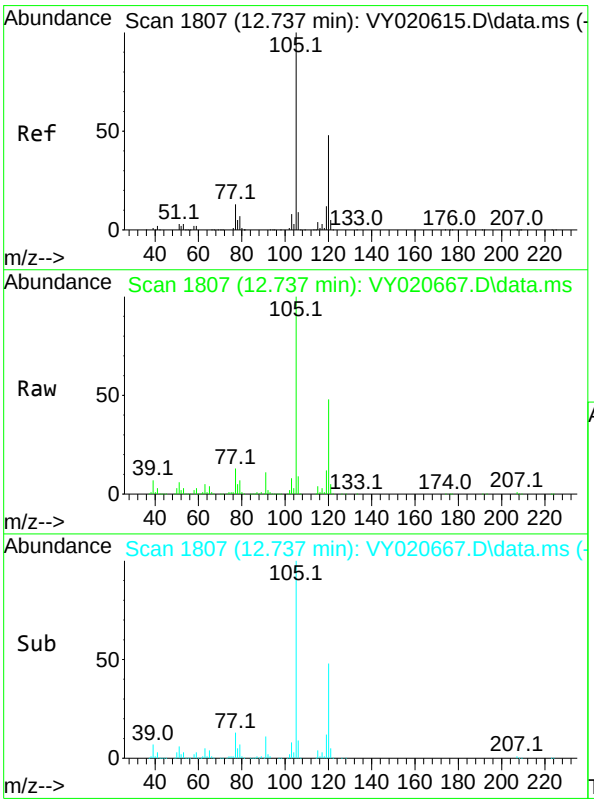

#79
2-Chlorotoluene
Concen: 21.578 ug/l
RT: 12.676 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 91 Resp: 151653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.2 | 16.6 | 49.7 |

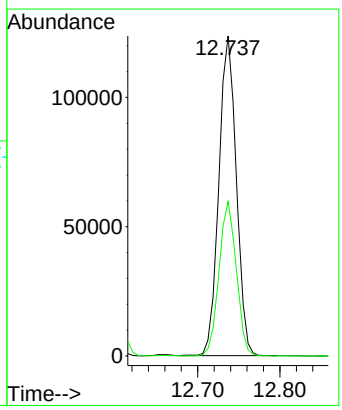


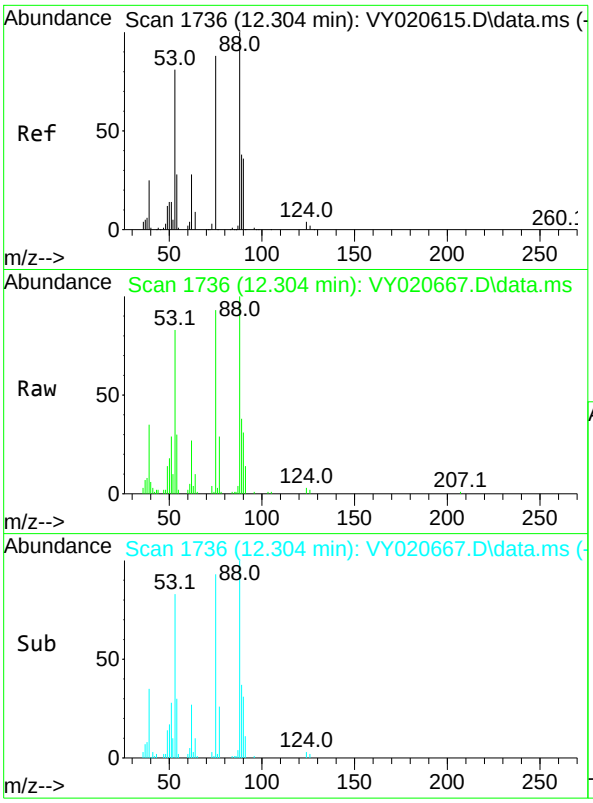




#80
1,3,5-Trimethylbenzene
Concen: 21.675 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:105 Resp: 182355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.0 | 23.9 | 71.7 |



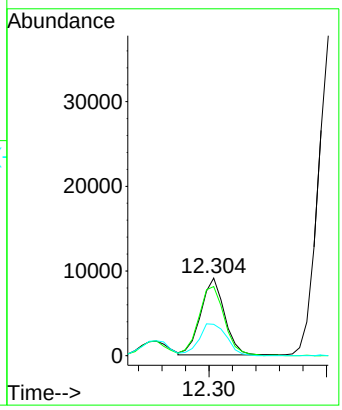


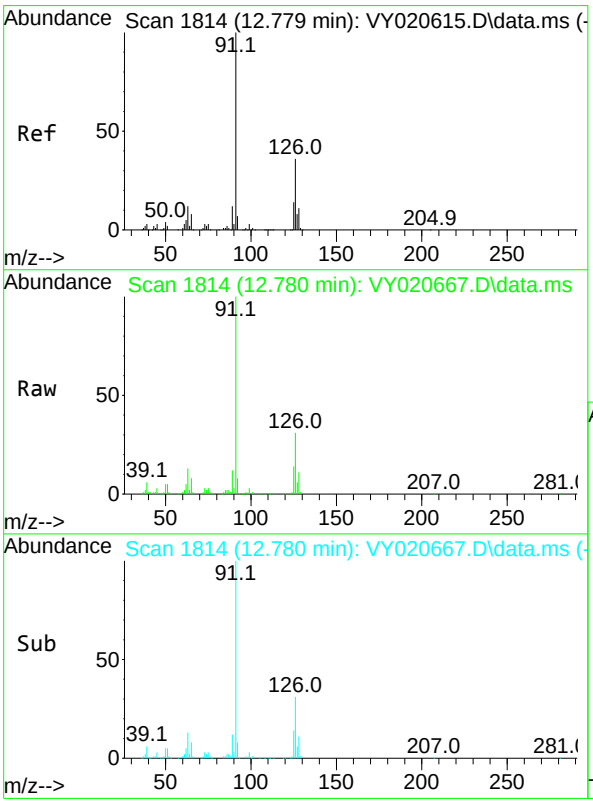

#81
trans-1,4-Dichloro-2-butene
Concen: 21.583 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 75 Resp: 12691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 98.5 | 75.4 | 113.2 |
| 89 | 48.6 | 37.0 | 55.4 |

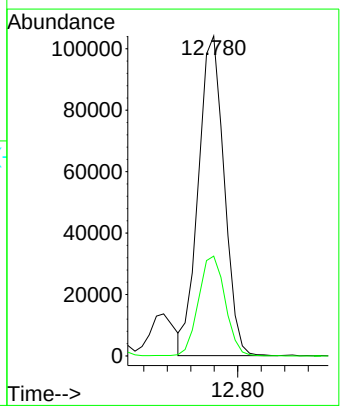


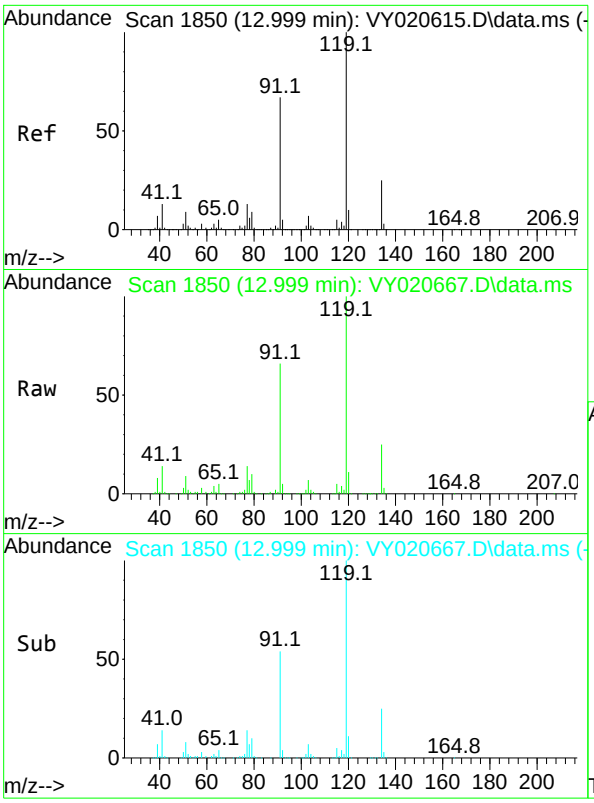




#82
4-Chlorotoluene
Concen: 21.706 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 91 Resp: 158267

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.5 | 16.6 | 49.7 |



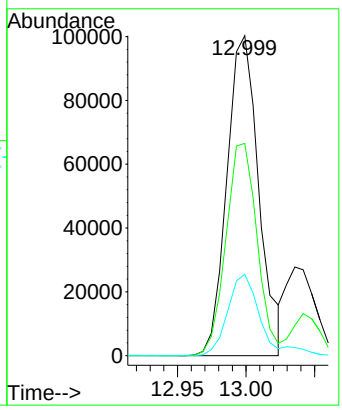


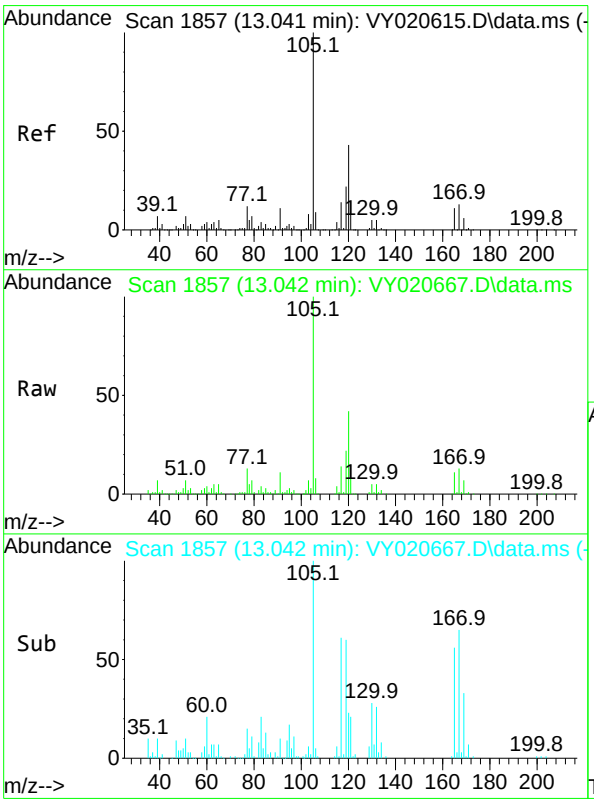

#83
tert-Butylbenzene
Concen: 21.364 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:119 Resp: 162779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 64.7 | 32.9 | 98.6 |
| 134 | 26.2 | 13.1 | 39.1 |

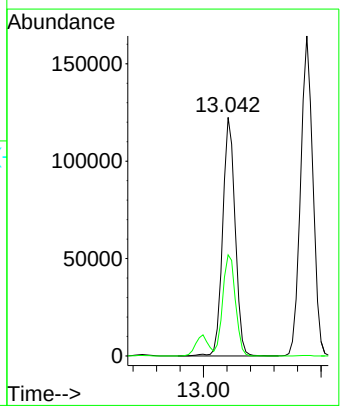


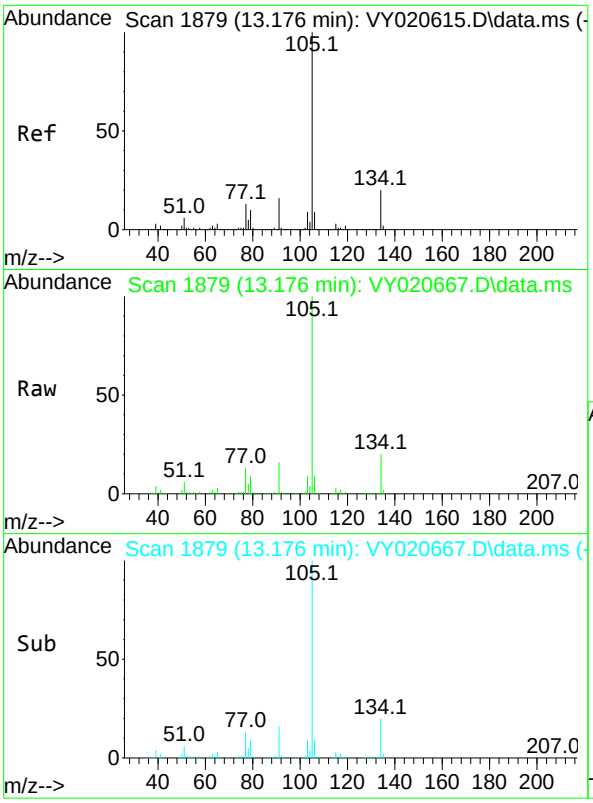




#84
1,2,4-Trimethylbenzene
Concen: 21.837 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:105 Resp: 180211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.2 | 21.8 | 65.4 |



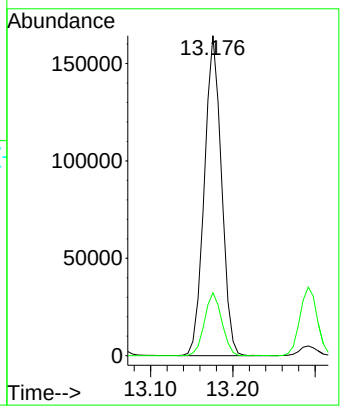


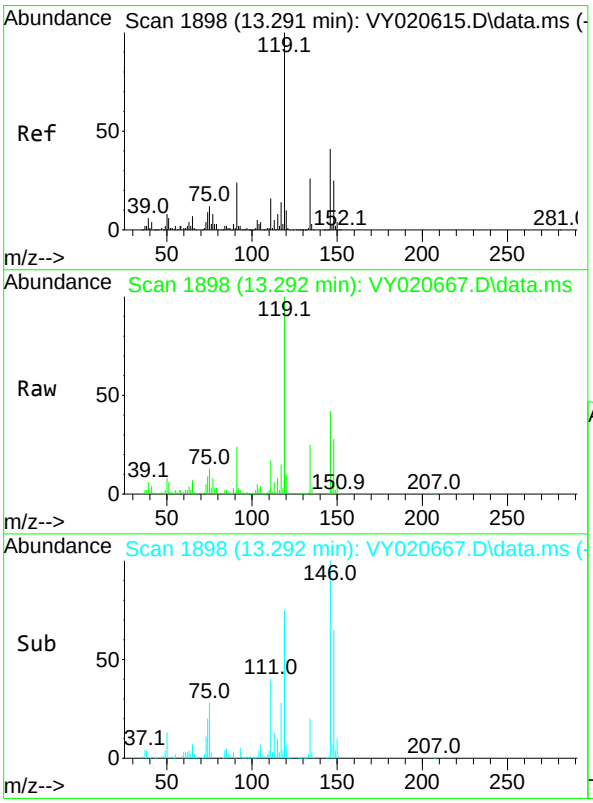

#85
sec-Butylbenzene
Concen: 21.499 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:105 Resp: 238168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 10.0 | 30.0 |

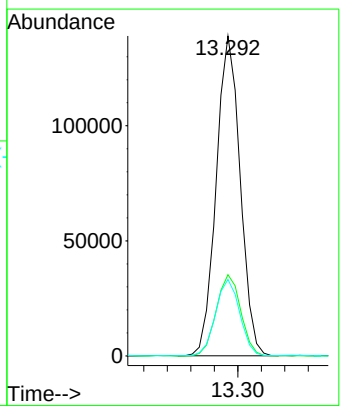


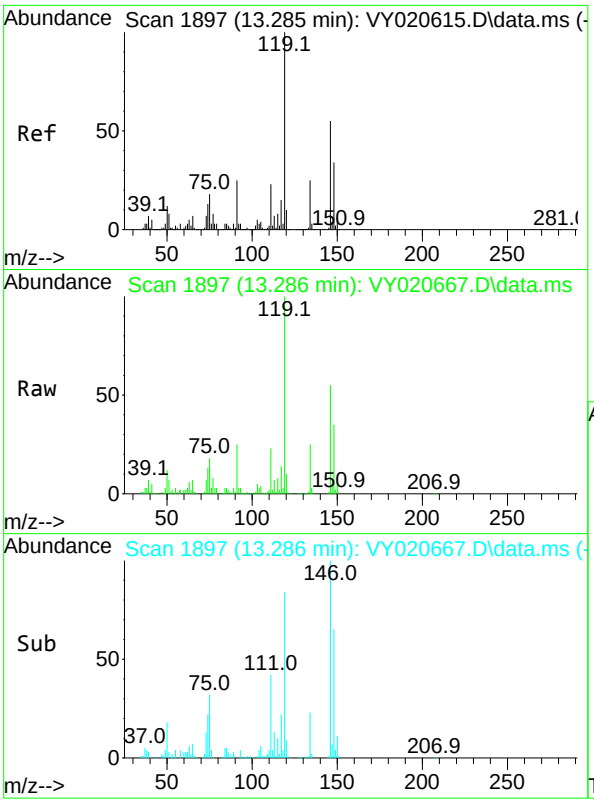




#86
p-Isopropyltoluene
Concen: 21.573 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:119 Resp: 197046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.1 | 12.9 | 38.6 |
| 91 | 24.1 | 12.1 | 36.3 |



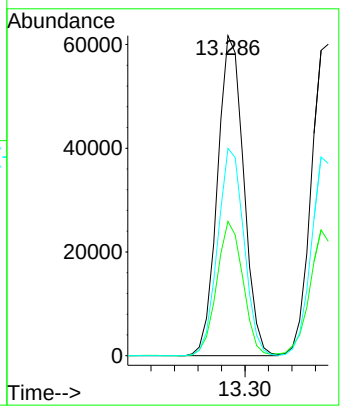


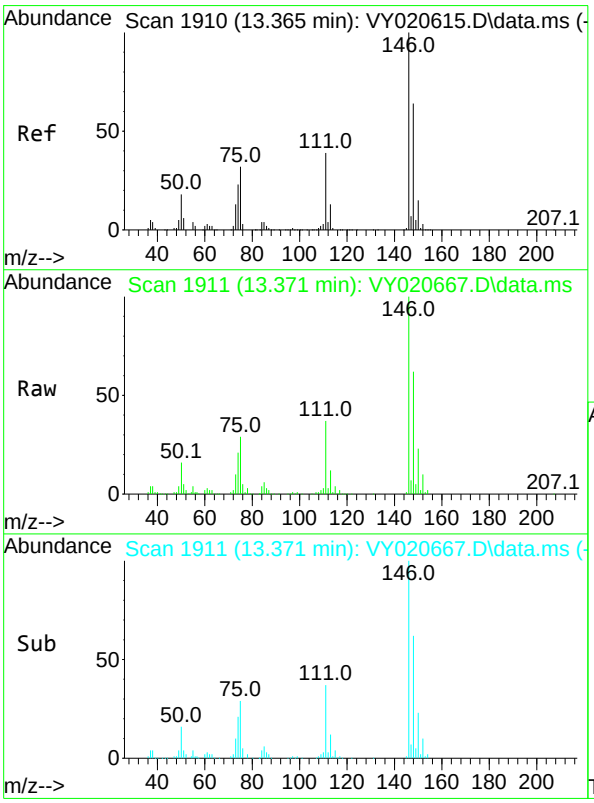

#87
1,3-Dichlorobenzene
Concen: 21.429 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:146 Resp: 95540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.8 | 20.6 | 61.8 |
| 148 | 65.0 | 31.4 | 94.0 |

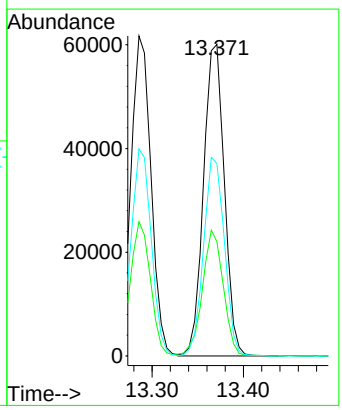


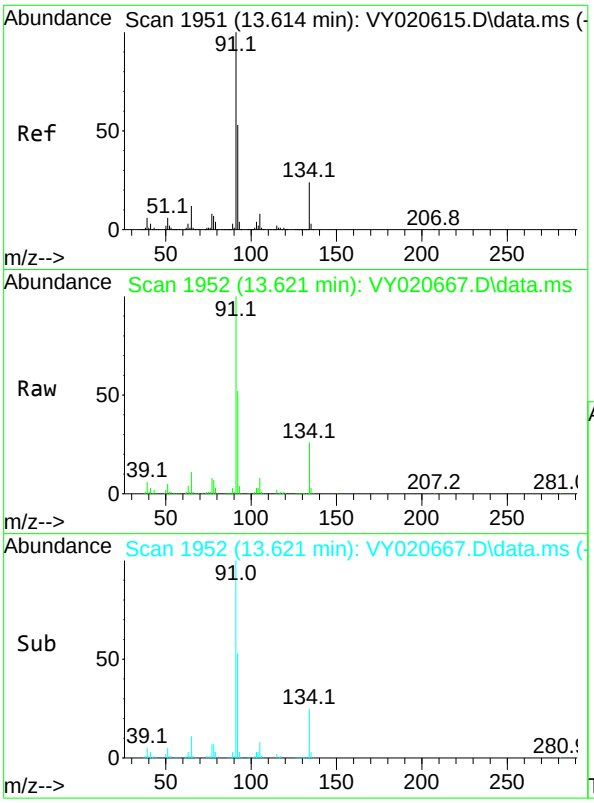




#88
1,4-Dichlorobenzene
Concen: 21.519 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. 0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:146 Resp: 95023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.7 | 19.6 | 58.7 |
| 148 | 63.9 | 31.9 | 95.5 |



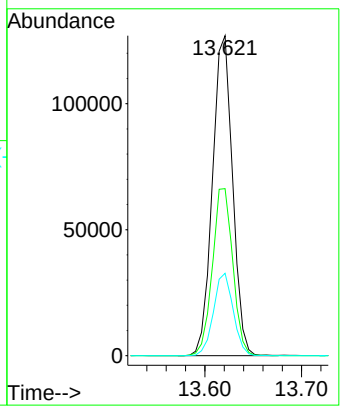


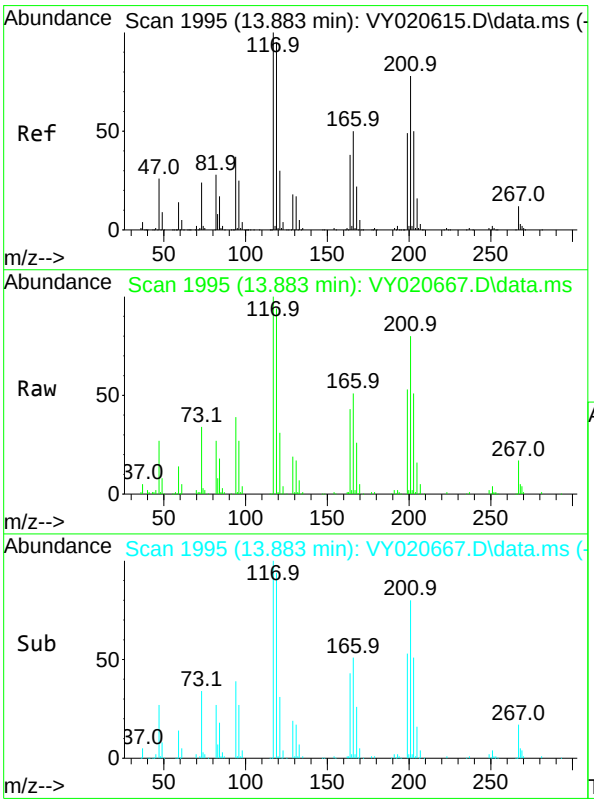

#89
n-Butylbenzene
Concen: 21.186 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion: 91 Resp: 183392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.0 | 26.8 | 80.4 |
| 134 | 25.2 | 12.5 | 37.5 |

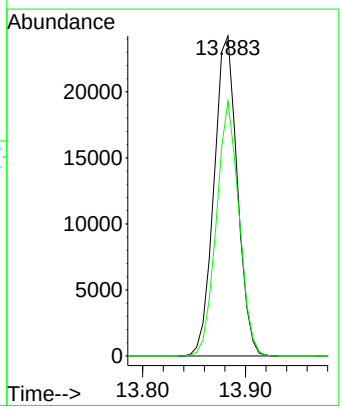


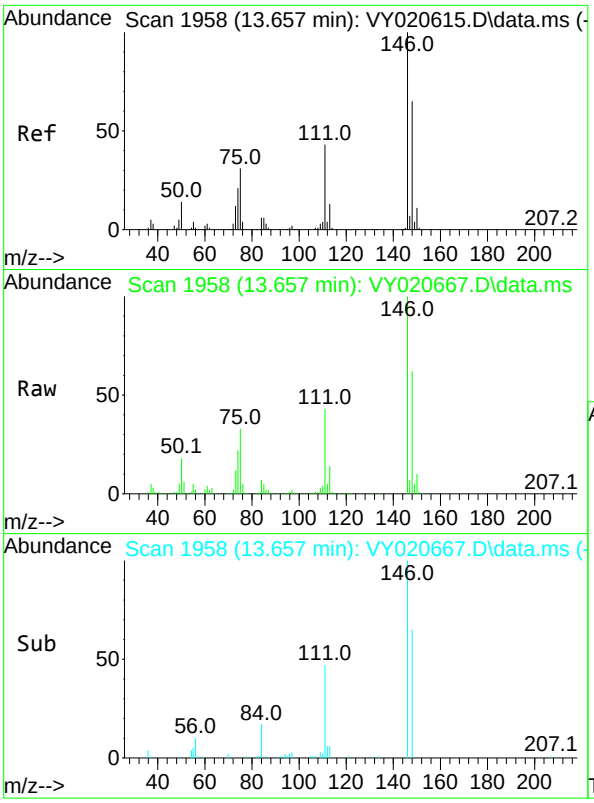




#90
Hexachloroethane
Concen: 21.066 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:117 Resp: 38132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.3 | 39.1 | 117.3 |



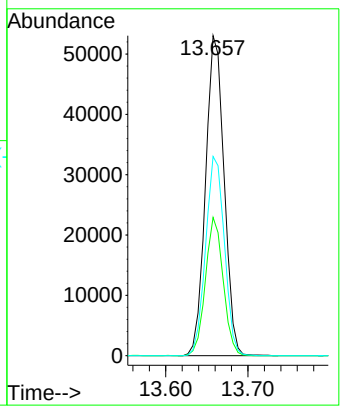


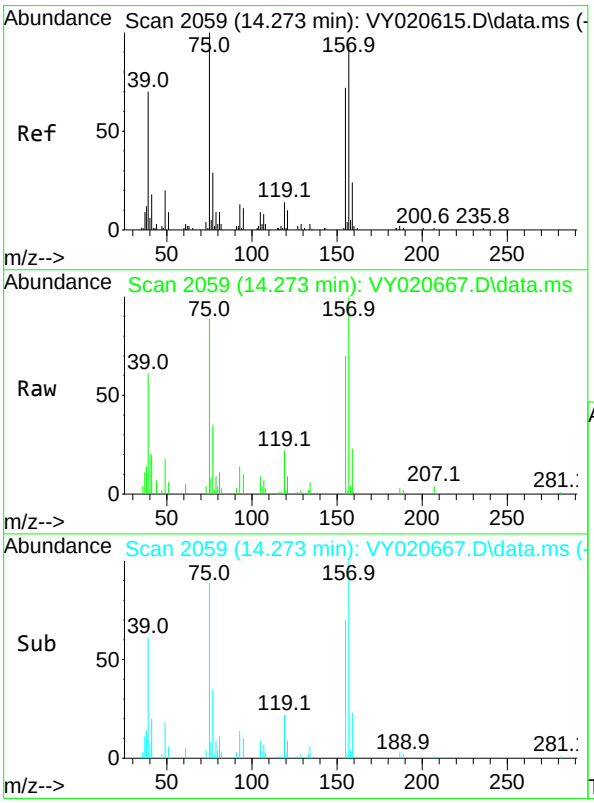

#91
1,2-Dichlorobenzene
Concen: 21.520 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:146 Resp: 83132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.3 | 21.3 | 63.7 |
| 148 | 63.1 | 32.0 | 96.0 |

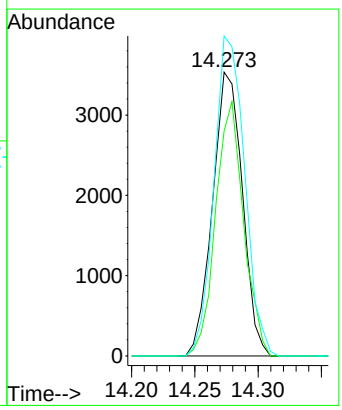


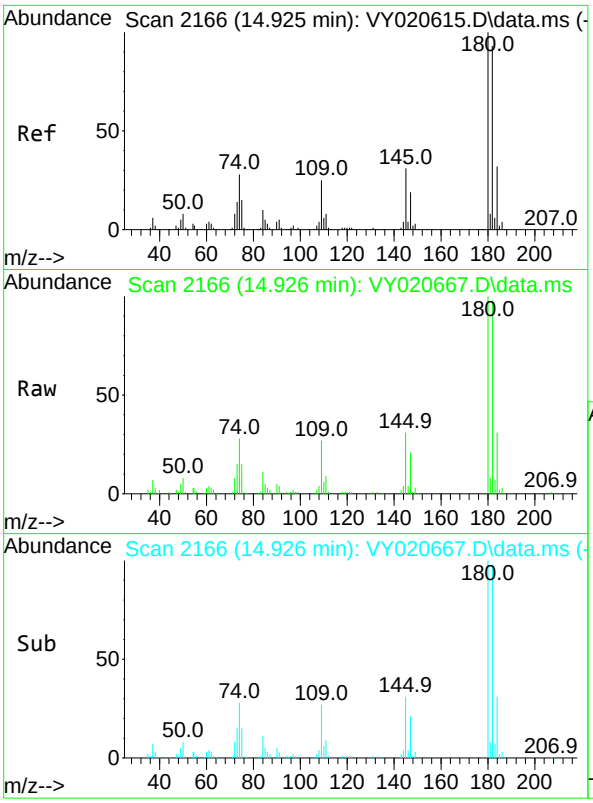




#92
1,2-Dibromo-3-Chloropropane
Concen: 21.190 ug/l
RT: 14.273 min Scan# 2059
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion: 75 Resp: 5790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 84.0 | 41.1 | 123.3 |
| 157 | 115.6 | 52.9 | 158.8 |



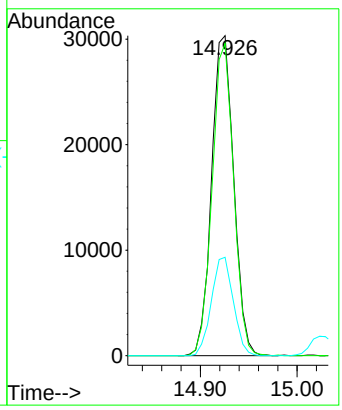


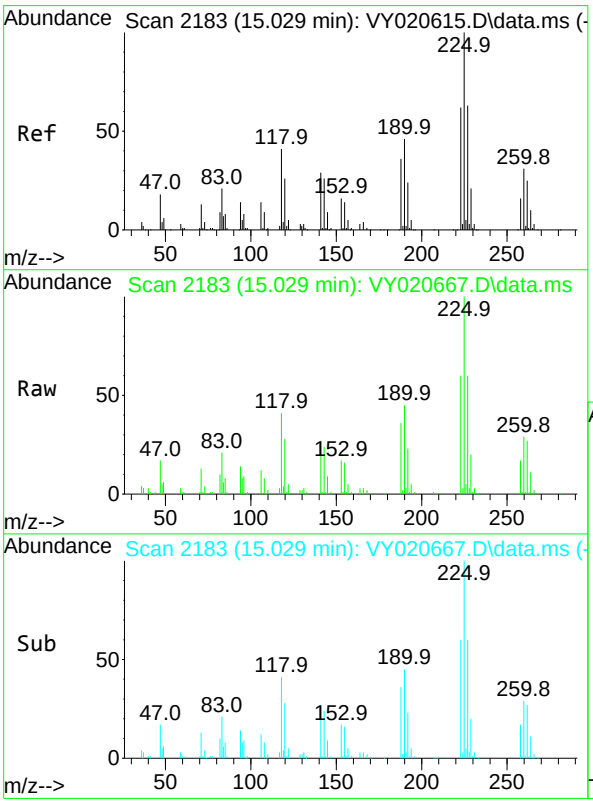

#93
1,2,4-Trichlorobenzene
Concen: 20.610 ug/l
RT: 14.926 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:180 Resp: 48158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 47.9 | 143.6 |
| 145 | 30.5 | 15.6 | 46.7 |

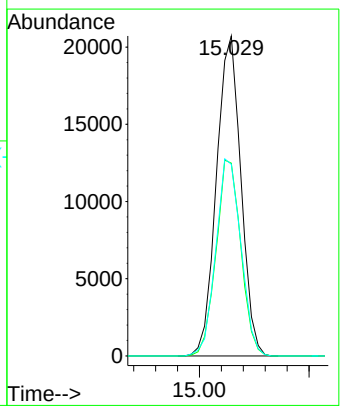


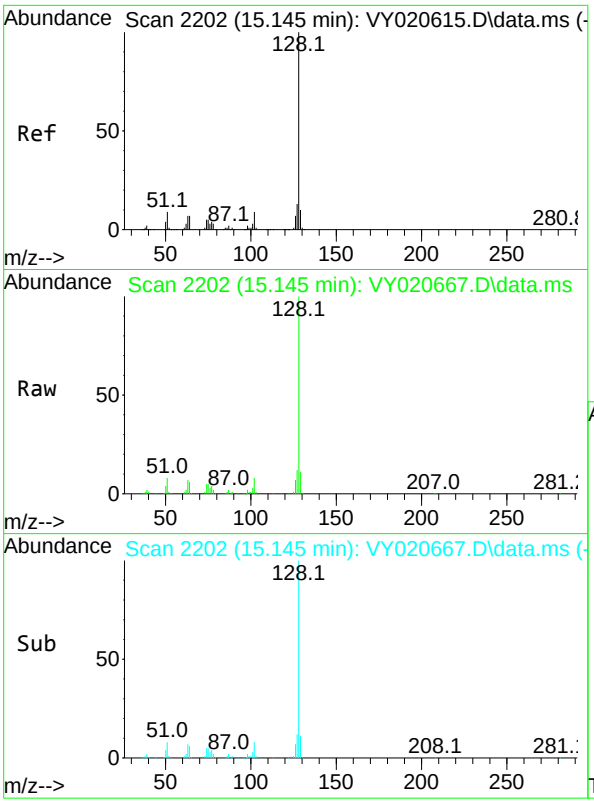




#94
Hexachlorobutadiene
Concen: 20.986 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:225 Resp: 32056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.8 | 95.3 |
| 227 | 63.2 | 32.2 | 96.6 |



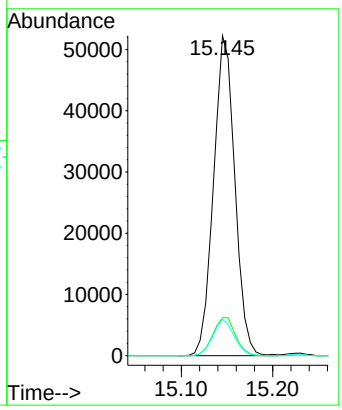


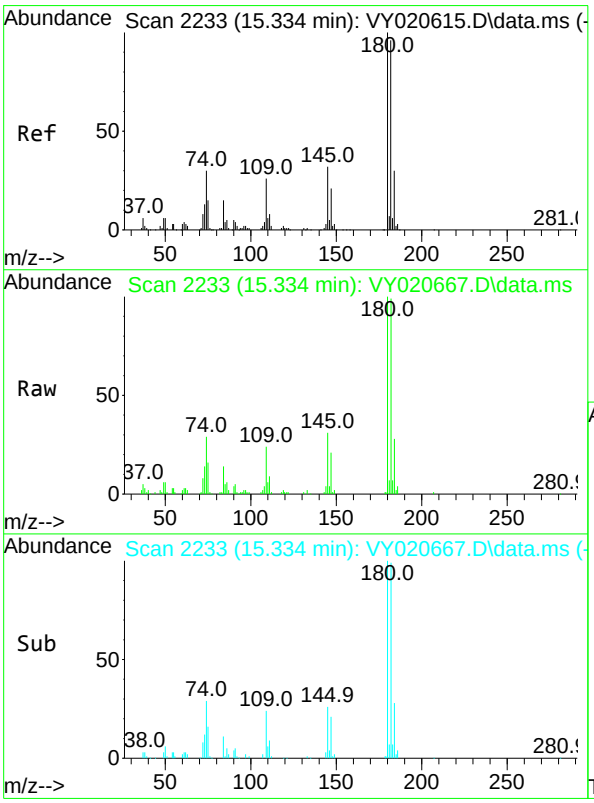

#95
Naphthalene
Concen: 21.127 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1220SBSD01

Tgt Ion:128 Resp: 84632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.7 | 16.1 |
| 129 | 11.4 | 8.5 | 12.7 |

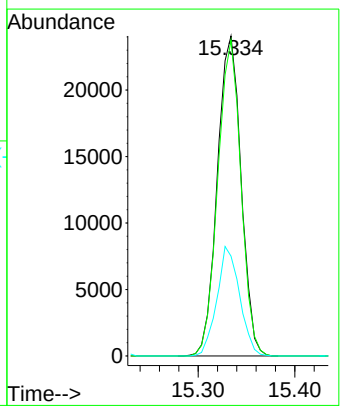



#96
1,2,3-Trichlorobenzene
Concen: 20.750 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020667.D
Acq: 20 Dec 2024 13:34

Tgt Ion:180 Resp: 40965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.2 | 47.3 | 141.9 |
| 145 | 32.8 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020672.D
Acq On : 20 Dec 2024 15:44
Operator : SY/MD
Sample : P5316-04
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Quant Time: Dec 20 18:09:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

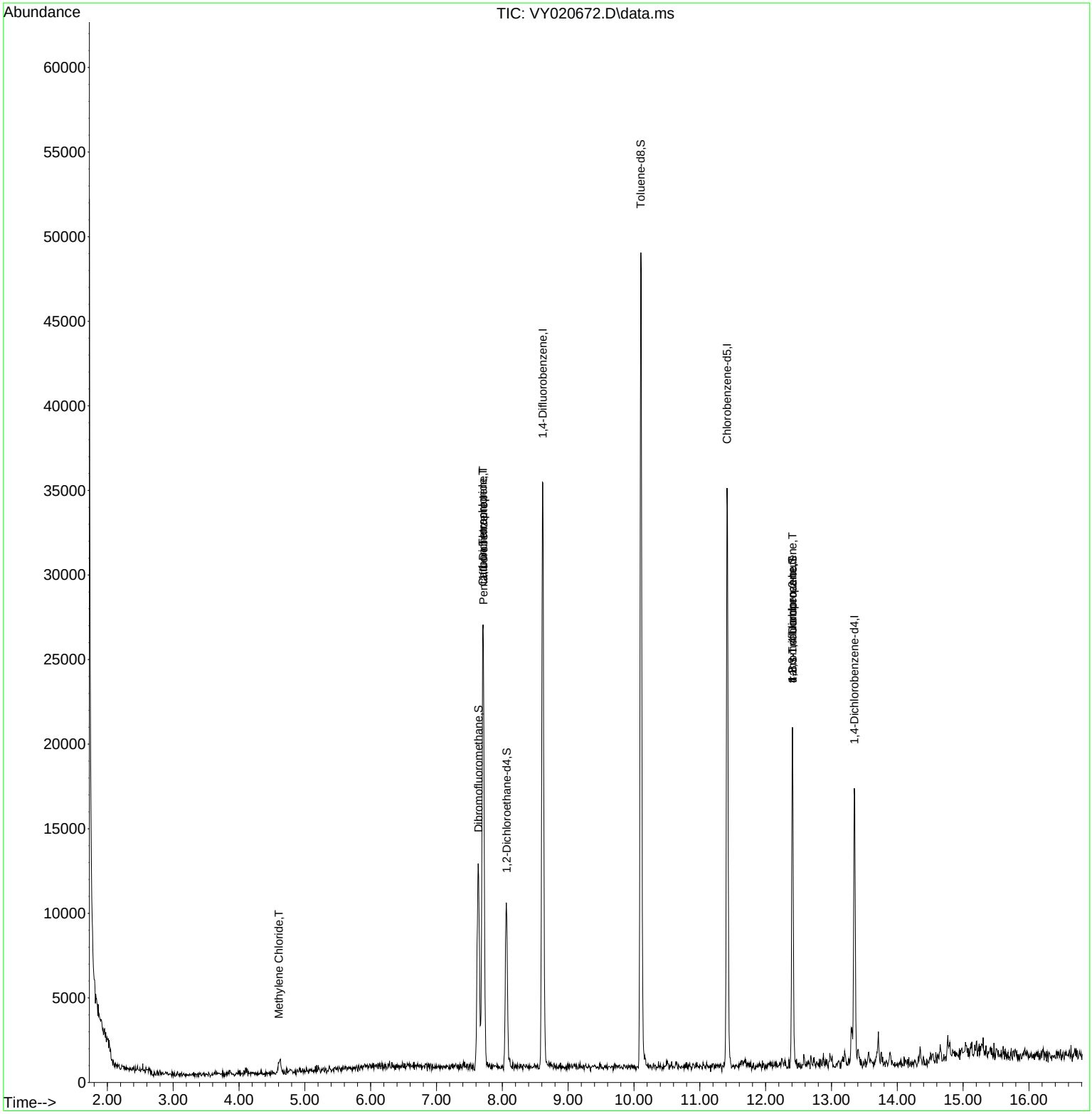
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 21219 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 29944 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 18784 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 4327 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 8111 | 34.902 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 69.800% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 9056 | 42.912 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 85.820% | | | |
| 50) Toluene-d8 | 10.103 | 98 | 33418 | 45.241 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 90.480% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 6269 | 21.696 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 43.400% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 3.854 | 43 | 216 | Below Cal | # | 43 |
| 20) Methylene Chloride | 4.604 | 84 | 316 | 1.094 | ug/l # | 60 |
| 30) Chloroform | 7.409 | 83 | 23 | Below Cal | # | 17 |
| 36) 1,1-Dichloropropene | 7.707 | 75 | 1727 | 4.488 | ug/l # | 45 |
| 38) Carbon Tetrachloride | 7.701 | 117 | 2046 | 4.806 | ug/l # | 11 |
| 76) 1,2,3-Trichloropropane | 12.408 | 75 | 3686 | 82.004 | ug/l # | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75 | 3686 | 172.129 | ug/l # | 12 |

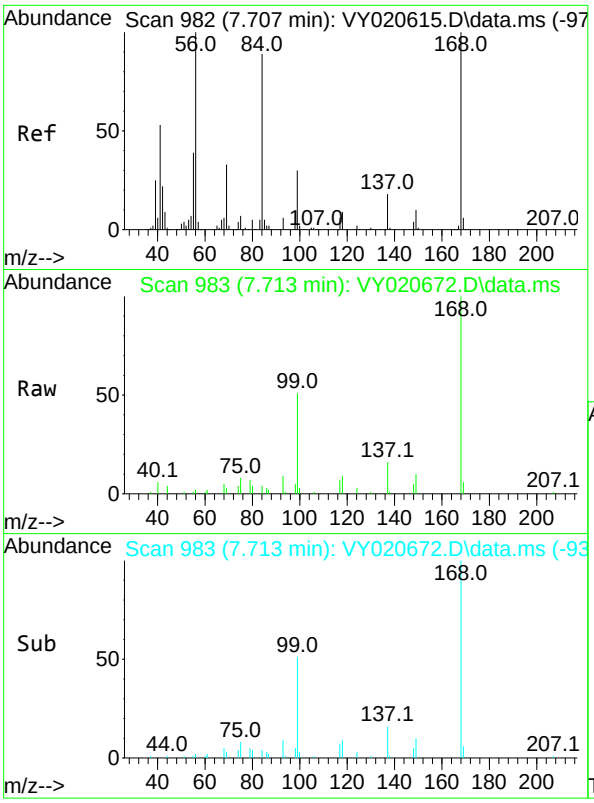
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020672.D
Acq On : 20 Dec 2024 15:44
Operator : SY/MD
Sample : P5316-04
Misc : 5.56g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Quant Time: Dec 20 18:09:29 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



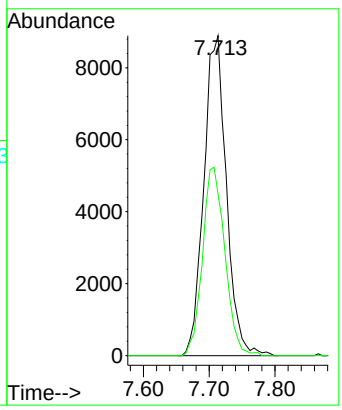


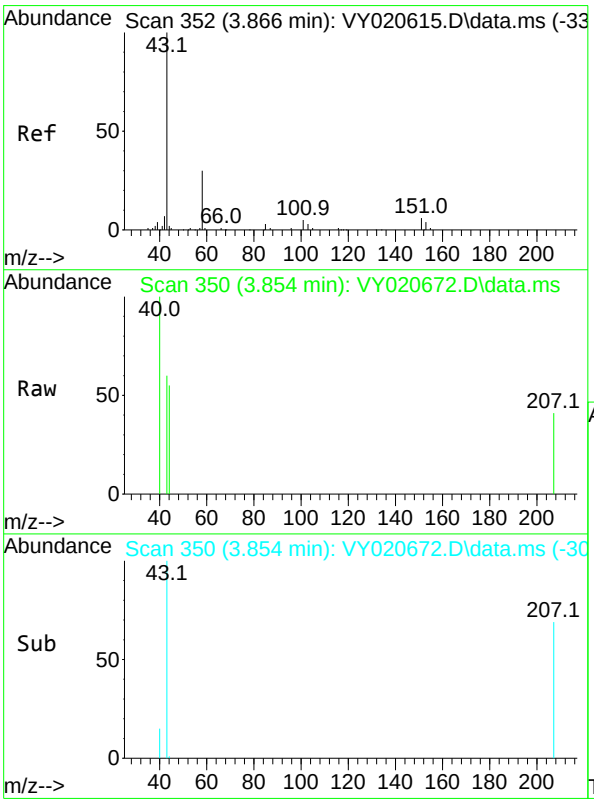

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Tgt Ion:168 Resp: 21219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 50.6 | 47.0 | 70.6 |

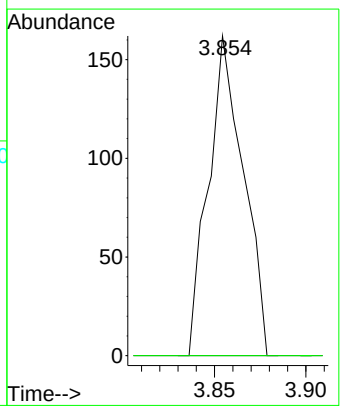


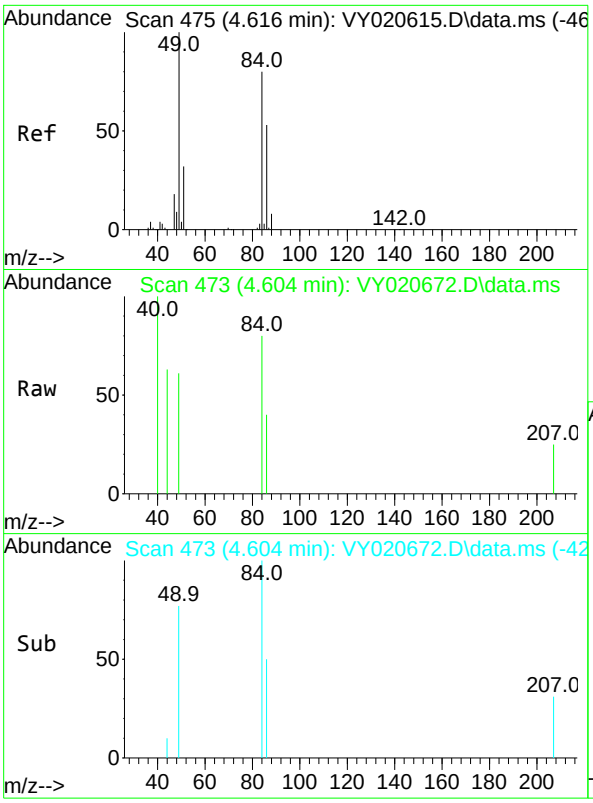




#16
Acetone
Concen: Below Cal
RT: 3.854 min Scan# 350
Delta R.T. -0.012 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion: 43 Resp: 216

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 0.0 | 25.0 | 37.6# |



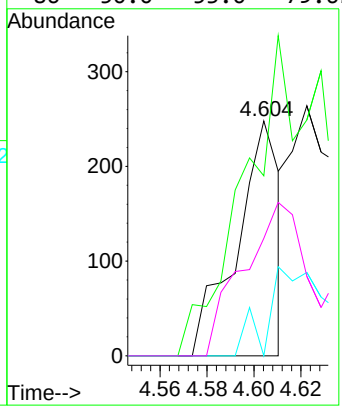


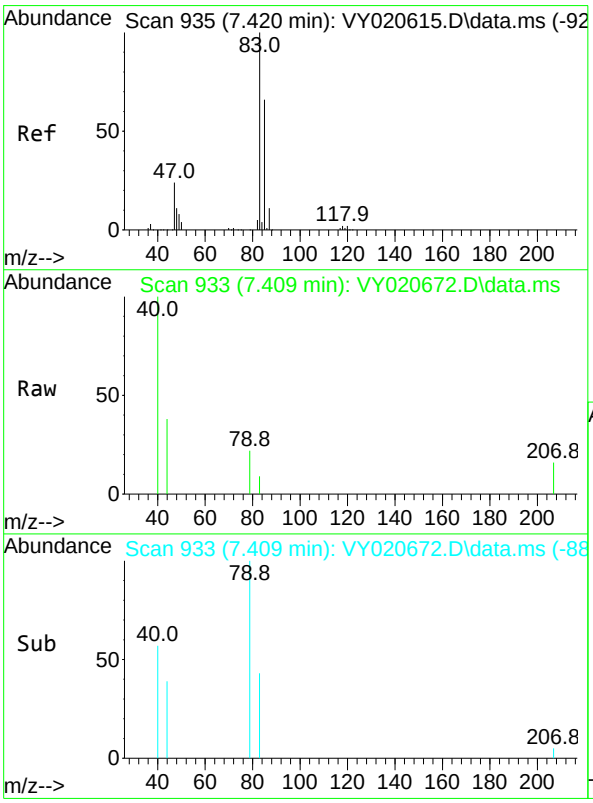

#20
Methylene Chloride
Concen: 1.094 ug/l
RT: 4.604 min Scan# 4
Delta R.T. -0.012 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Tgt Ion: 84 Resp: 316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 76.6 | 100.7 | 151.1# |
| 51 | 0.0 | 32.2 | 48.2# |
| 86 | 50.0 | 53.0 | 79.6# |

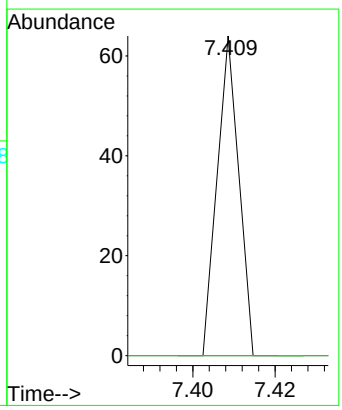


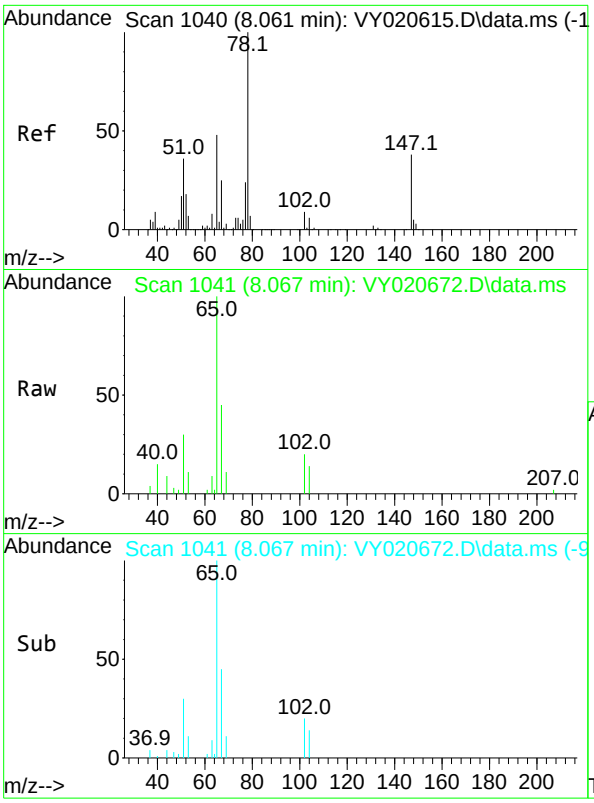




#30
Chloroform
Concen: Below Cal
RT: 7.409 min Scan# 933
Delta R.T. -0.011 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion: 83 Resp: 23

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 0.0 | 52.7 | 79.1# |



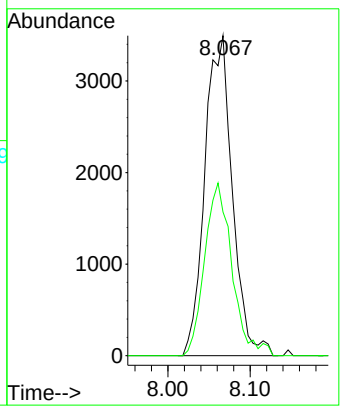


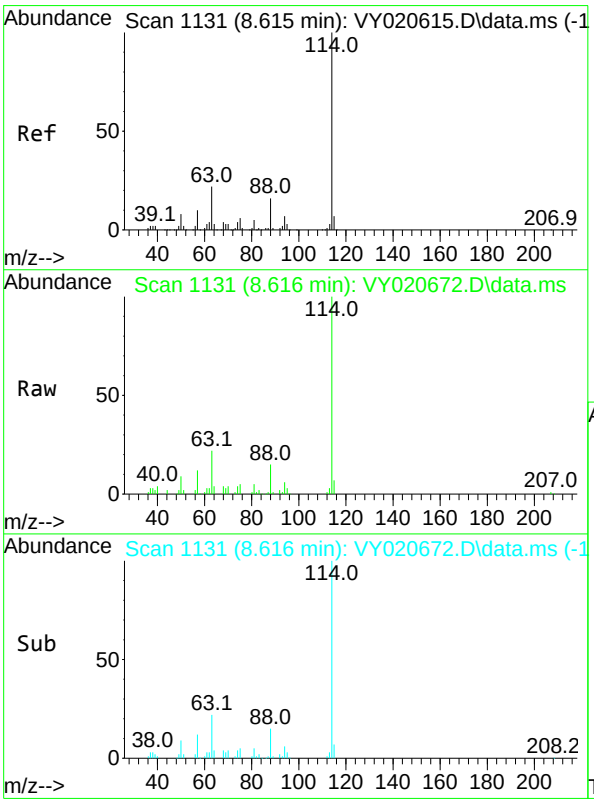

#33
1,2-Dichloroethane-d4
Concen: 34.902 ug/l
RT: 8.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Tgt Ion: 65 Resp: 8111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 108.0 |

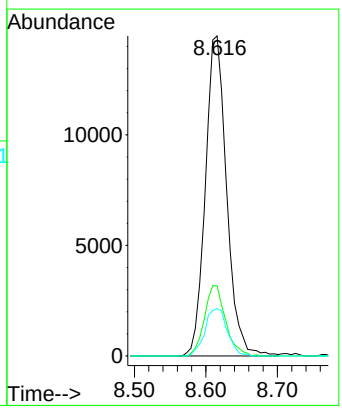


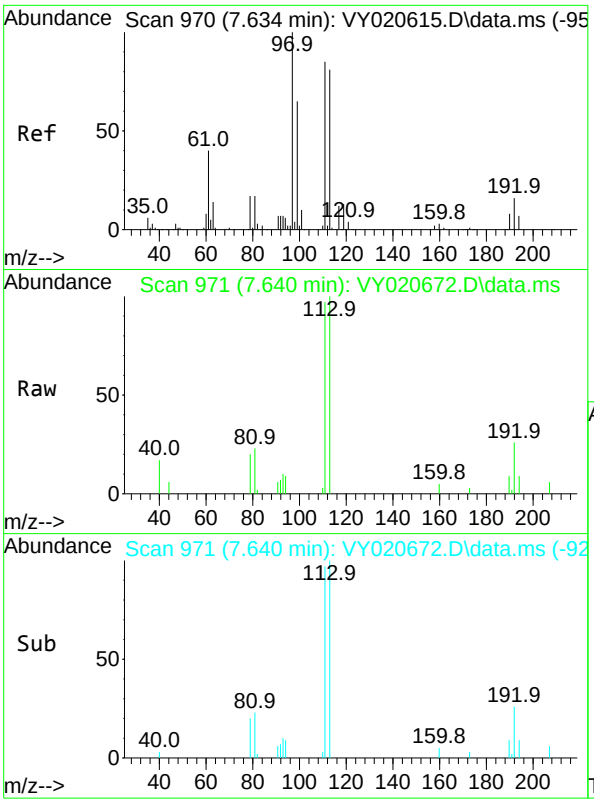




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion:114 Resp: 29944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 22.0 | 0.0 | 44.0 |
| 88 | 14.8 | 0.0 | 32.8 |



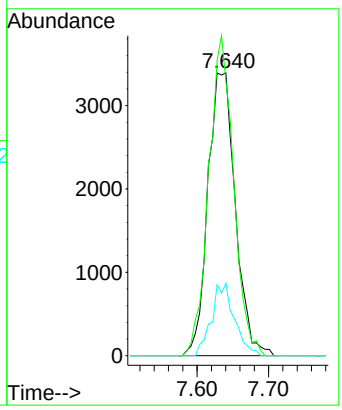


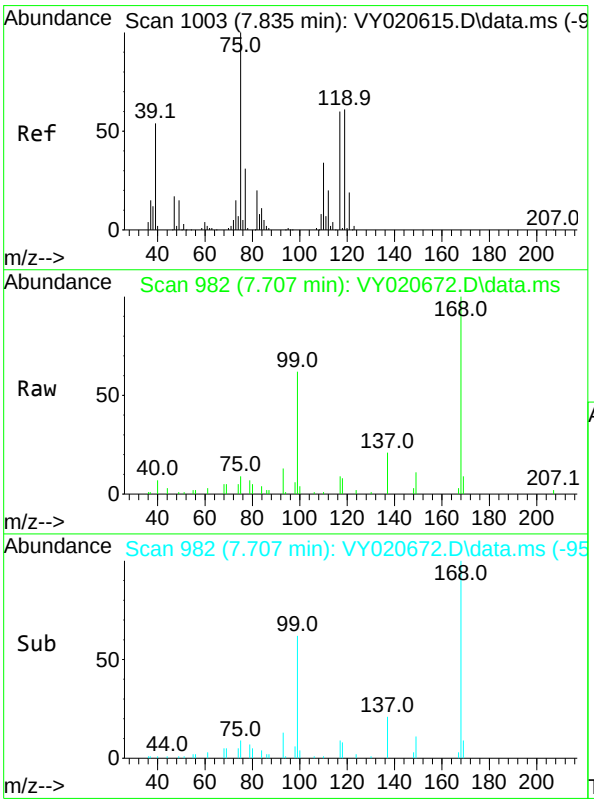

#35
Dibromofluoromethane
Concen: 42.912 ug/l
RT: 7.640 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Tgt Ion:113 Resp: 9056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 82.9 | 124.3 |
| 192 | 21.3 | 15.7 | 23.5 |

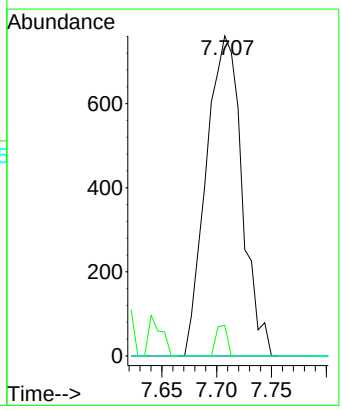


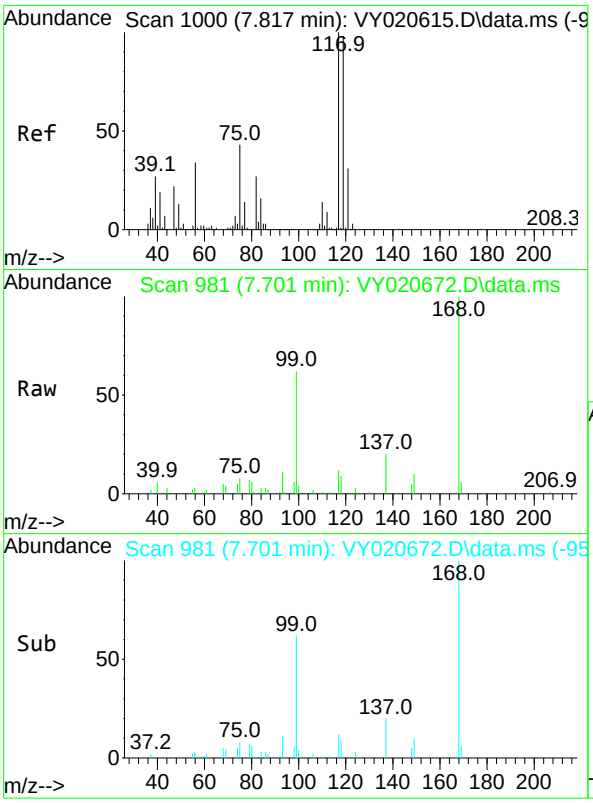




#36
1,1-Dichloropropene
Concen: 4.488 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.128 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion: 75 Resp: 1727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 3.0 | 16.8 | 50.4# |
| 77 | 0.0 | 25.0 | 37.6# |



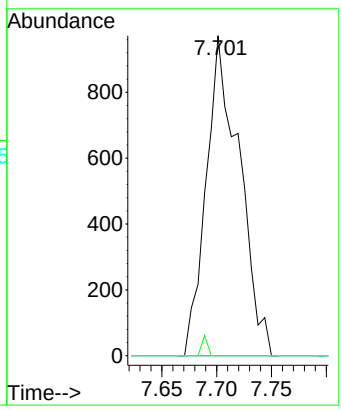


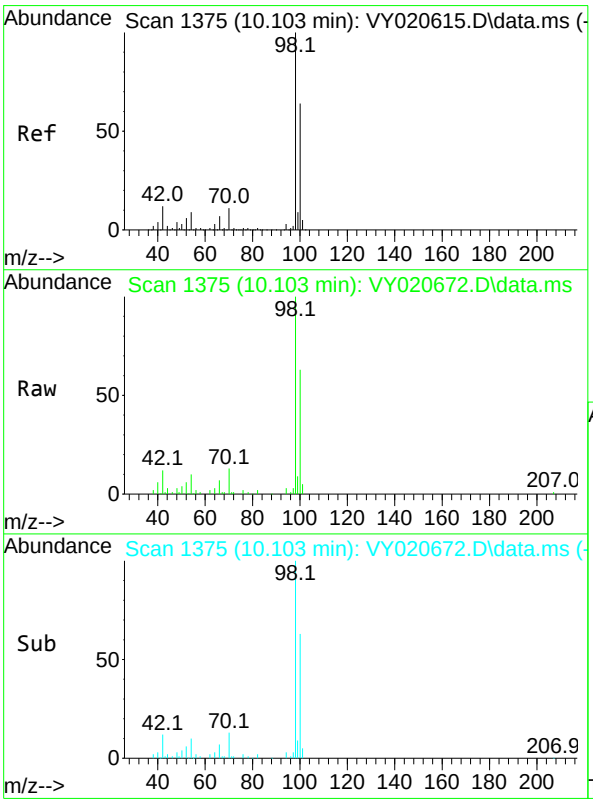

#38
Carbon Tetrachloride
Concen: 4.806 ug/l
RT: 7.701 min Scan# 9
Delta R.T. -0.116 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Tgt Ion:117 Resp: 2046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 0.0 | 78.3 | 117.5# |
| 121 | 0.0 | 25.1 | 37.7# |

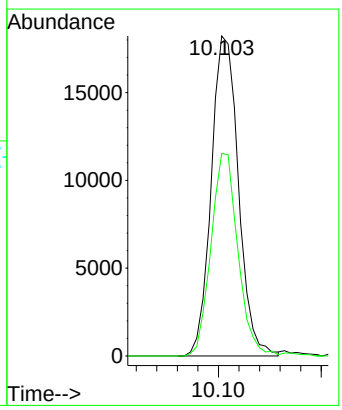


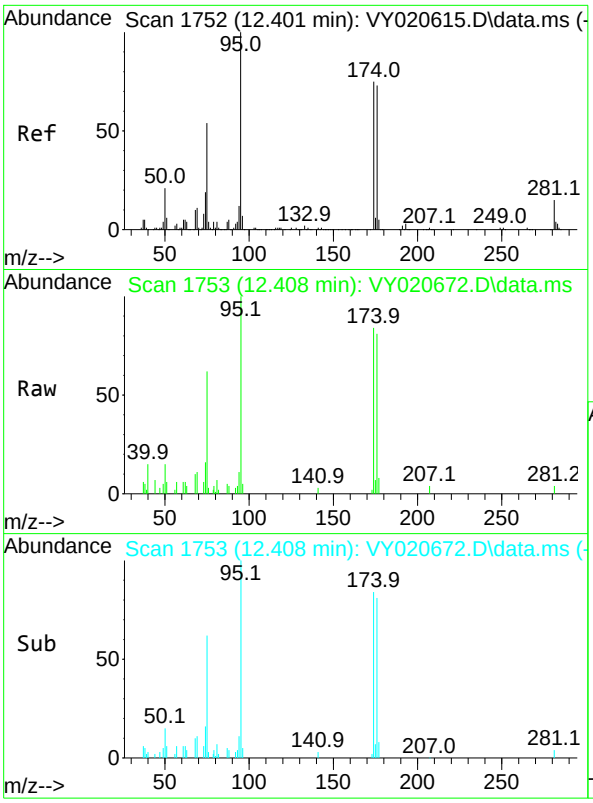




#50
Toluene-d8
Concen: 45.241 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion: 98 Resp: 33418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 63.2 | 52.1 | 78.1 |



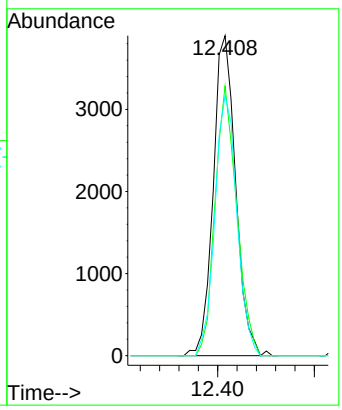


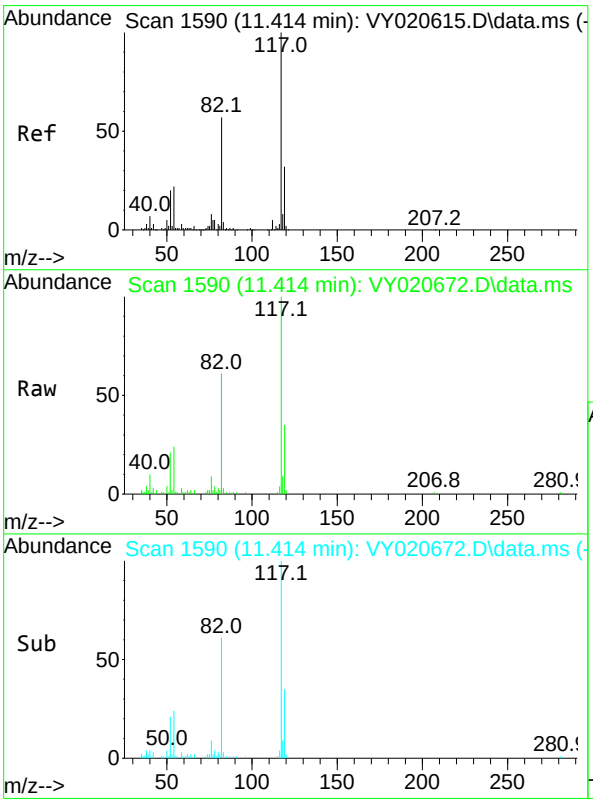

#62
4-Bromofluorobenzene
Concen: 21.696 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Tgt Ion: 95 Resp: 6269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.7 | 0.0 | 161.8 |
| 176 | 79.9 | 0.0 | 156.6 |

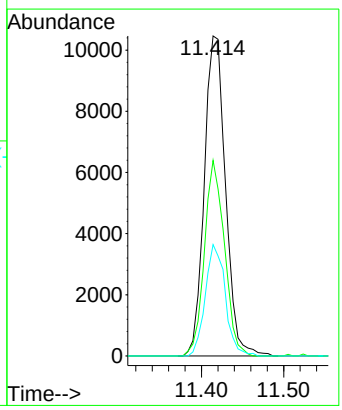


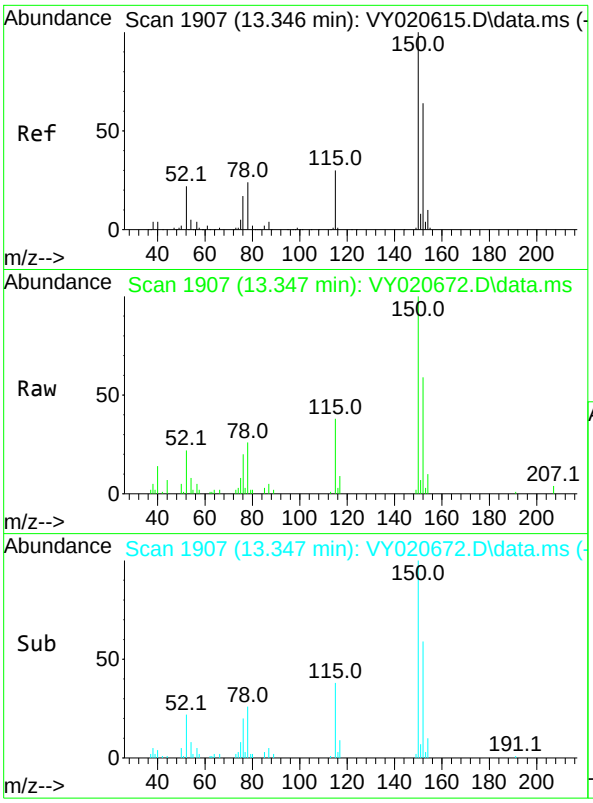




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1590
Delta R.T. 0.000 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion:117 Resp: 18784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 61.1 | 45.8 | 68.6 |
| 119 | 34.8 | 25.3 | 37.9 |



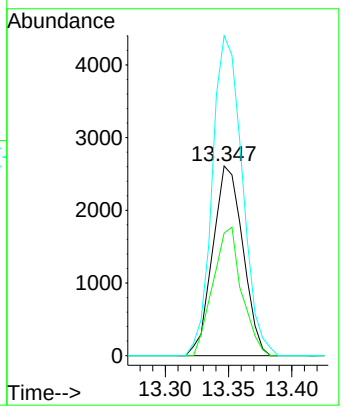


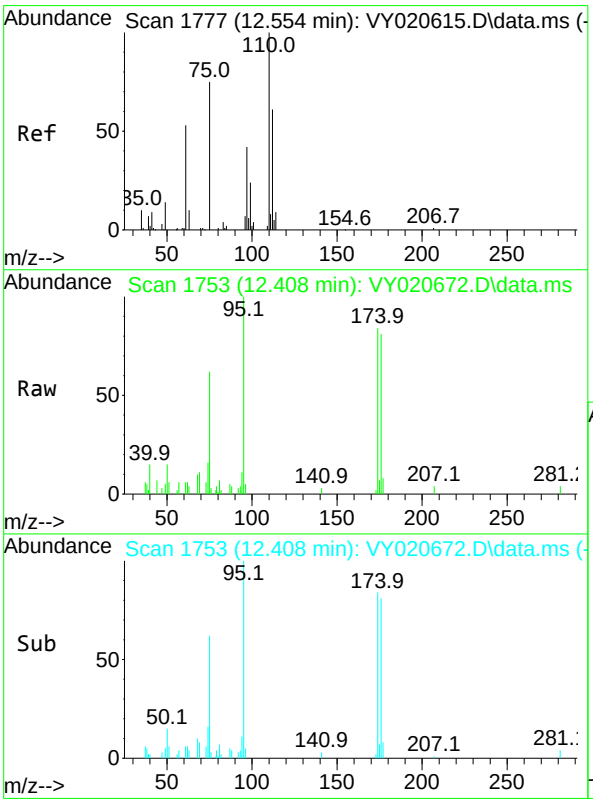

#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Tgt Ion:152 Resp: 4327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.4 | 30.2 | 90.6 |
| 150 | 167.4 | 0.0 | 355.4 |

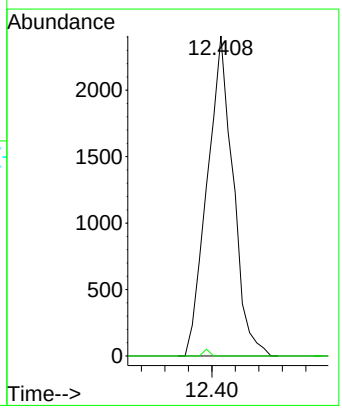


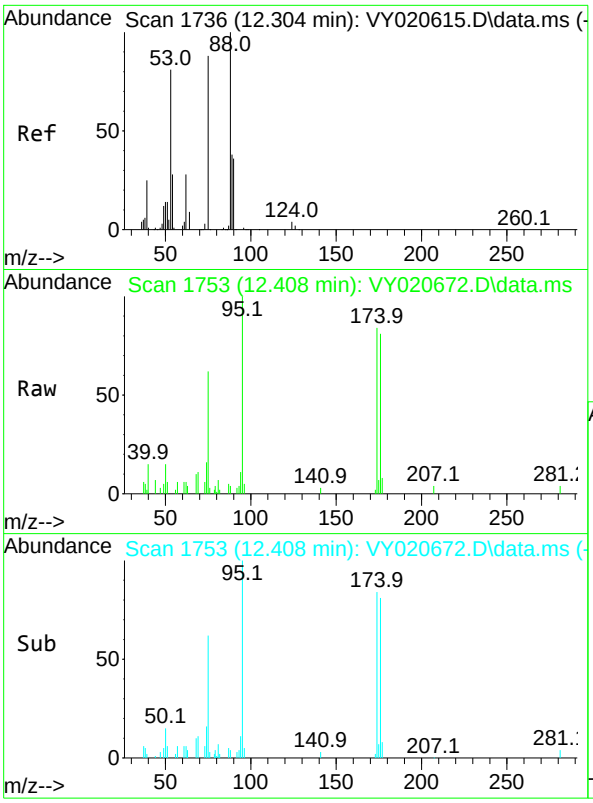




#76
1,2,3-Trichloropropane
Concen: 82.004 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

Tgt Ion: 75 Resp: 3686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.5 | 0.0 | 0.0# |



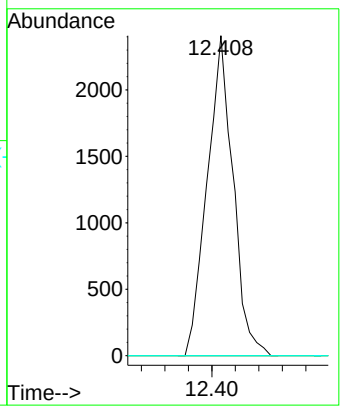



#81
trans-1,4-Dichloro-2-butene
Concen: 172.129 ug/l
RT: 12.408 min Scan# 1
Delta R.T. 0.104 min
Lab File: VY020672.D
Acq: 20 Dec 2024 15:44

**Instrument :**
MSVOA_Y
**ClientSampleId :**
TT-304-IDWSO-20241217-4

Tgt Ion: 75 Resp: 3686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 0.0 | 75.4 | 113.2# |
| 89 | 0.0 | 37.0 | 55.4# |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.707 | 168 | 143833 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 225180 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.414 | 117 | 204671 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.347 | 152 | 118027 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.061 | 65 | 67912 | 43.111 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 86.220% | | |
| 35) Dibromofluoromethane | 7.634 | 113 | 70081 | 44.159 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 88.320% | | |
| 50) Toluene-d8 | 10.103 | 98 | 236316 | 42.543 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 85.080% | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 91351 | 42.042 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 84.080% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 81747 | 45.502 | ug/l | 95 |
| 3) Chloromethane | 2.068 | 50 | 58949 | 44.285 | ug/l | 95 |
| 4) Vinyl Chloride | 2.202 | 62 | 37701 | 30.430 | ug/l | 97 |
| 5) Bromomethane | 2.598 | 94 | 27270 | 34.241 | ug/l | 96 |
| 6) Chloroethane | 2.733 | 64 | 23852 | 31.154 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.062 | 101 | 97429 | 37.582 | ug/l | 98 |
| 8) Diethyl Ether | 3.458 | 74 | 38091 | 41.896 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 72820 | 39.189 | ug/l | 100 |
| 10) Methyl Iodide | 4.007 | 142 | 89063 | 43.050 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.866 | 59 | 36300 | 213.879 | ug/l | 100 |
| 12) 1,1-Dichloroethene | 3.787 | 96 | 71932 | 39.896 | ug/l | 95 |
| 13) Acrolein | 3.653 | 56 | 10852 | 145.691 | ug/l | 100 |
| 14) Allyl chloride | 4.385 | 41 | 138460 | 43.827 | ug/l | 98 |
| 15) Acrylonitrile | 5.061 | 53 | 114092 | 262.307 | ug/l | 98 |
| 16) Acetone | 3.873 | 43 | 62589 | 198.675 | ug/l | 99 |
| 17) Carbon Disulfide | 4.104 | 76 | 240927 | 41.052 | ug/l | 99 |
| 18) Methyl Acetate | 4.385 | 43 | 49816 | 46.480 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.116 | 73 | 242425 | 52.095 | ug/l | 98 |
| 20) Methylene Chloride | 4.616 | 84 | 94785 | 48.394 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 5.116 | 96 | 102508 | 50.685 | ug/l | 94 |
| 22) Diisopropyl ether | 6.025 | 45 | 337414 | 52.616 | ug/l | 99 |
| 23) Vinyl Acetate | 5.964 | 43 | 967217 | 266.302 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 196407 | 52.280 | ug/l | 99 |
| 25) 2-Butanone | 6.896 | 43 | 145082 | 247.823 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 162135 | 45.653 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.890 | 96 | 120298 | 51.699 | ug/l | 98 |
| 28) Bromochloromethane | 7.244 | 49 | 82386 | 65.015 | ug/l | 99 |
| 29) Tetrahydrofuran | 7.262 | 42 | 99121 | 268.209 | ug/l | 99 |
| 30) Chloroform | 7.421 | 83 | 204738 | 54.780 | ug/l | 97 |
| 31) Cyclohexane | 7.701 | 56 | 159093 | 44.289 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 173221 | 50.188 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 140911 | 48.693 | ug/l | 99 |
| 37) Ethyl Acetate | 6.988 | 43 | 68879 | 50.601 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.817 | 117 | 155919 | 48.699 | ug/l | 98 |
| 39) Methylcyclohexane | 9.109 | 83 | 165792 | 43.957 | ug/l | 95 |
| 40) Benzene | 8.079 | 78 | 429017 | 50.578 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.220 | 41 | 35040 | 48.692 ug/l # | 91 |
| 42) 1,2-Dichloroethane | 8.158 | 62 | 116059 | 51.589 ug/l | 99 |
| 43) Isopropyl Acetate | 8.195 | 43 | 132653 | 51.476 ug/l # | 87 |
| 44) Trichloroethene | 8.866 | 130 | 104350 | 50.065 ug/l | 97 |
| 45) 1,2-Dichloropropane | 9.140 | 63 | 102993 | 51.953 ug/l | 97 |
| 46) Dibromomethane | 9.231 | 93 | 55249 | 52.734 ug/l | 100 |
| 47) Bromodichloromethane | 9.420 | 83 | 148983 | 52.643 ug/l | 99 |
| 48) Methyl methacrylate | 9.219 | 41 | 64336 | 52.516 ug/l | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 12848 | 1069.318 ug/l | 92 |
| 51) 4-Methyl-2-Pentanone | 9.993 | 43 | 347100 | 255.175 ug/l | 100 |
| 52) Toluene | 10.170 | 92 | 269709 | 51.164 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.390 | 75 | 137082 | 51.983 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 9.853 | 75 | 161185 | 51.582 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 72252 | 52.160 ug/l | 94 |
| 56) Ethyl methacrylate | 10.438 | 69 | 106862 | 53.177 ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 129720 | 52.533 ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 9.707 | 63 | 269274 | 318.460 ug/l | 100 |
| 59) 2-Hexanone | 10.762 | 43 | 232450 | 266.163 ug/l | 100 |
| 60) Dibromochloromethane | 10.908 | 129 | 98561 | 53.204 ug/l | 99 |
| 61) 1,2-Dibromoethane | 11.012 | 107 | 67268 | 52.208 ug/l | 99 |
| 64) Tetrachloroethene | 10.646 | 164 | 90723 | 47.125 ug/l | 94 |
| 65) Chlorobenzene | 11.444 | 112 | 288406 | 50.396 ug/l | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 11.518 | 131 | 100036 | 51.120 ug/l | 99 |
| 67) Ethyl Benzene | 11.518 | 91 | 520329 | 49.283 ug/l | 99 |
| 68) m/p-Xylenes | 11.627 | 106 | 386215 | 98.385 ug/l | 99 |
| 69) o-Xylene | 11.957 | 106 | 182369 | 49.791 ug/l | 99 |
| 70) Styrene | 11.969 | 104 | 308084 | 50.345 ug/l | 99 |
| 71) Bromoform | 12.133 | 173 | 57006 | 51.813 ug/l # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 488221 | 47.402 ug/l | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 119742 | 49.676 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.505 | 83 | 85524 | 51.155 ug/l | 97 |
| 76) 1,2,3-Trichloropropane | 12.554 | 75 | 110281 | 89.947 ug/l # | 100 |
| 77) Bromobenzene | 12.530 | 156 | 111242 | 49.582 ug/l | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 585185 | 47.158 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 337195 | 48.298 ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 398582 | 47.693 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 29107 | 49.831 ug/l | 99 |
| 82) 4-Chlorotoluene | 12.780 | 91 | 346496 | 47.838 ug/l | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 356447 | 47.095 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.042 | 105 | 393582 | 48.012 ug/l | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 510662 | 46.404 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 429462 | 47.333 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.286 | 146 | 212764 | 48.040 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.365 | 146 | 210538 | 47.998 ug/l | 100 |
| 89) n-Butylbenzene | 13.621 | 91 | 403246 | 46.895 ug/l | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 86293 | 47.992 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.657 | 146 | 187168 | 48.776 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 12831 | 47.271 ug/l | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 111082 | 47.858 ug/l | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 73289 | 48.301 ug/l | 98 |
| 95) Naphthalene | 15.145 | 128 | 201284 | 50.583 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 95931 | 48.917 ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration

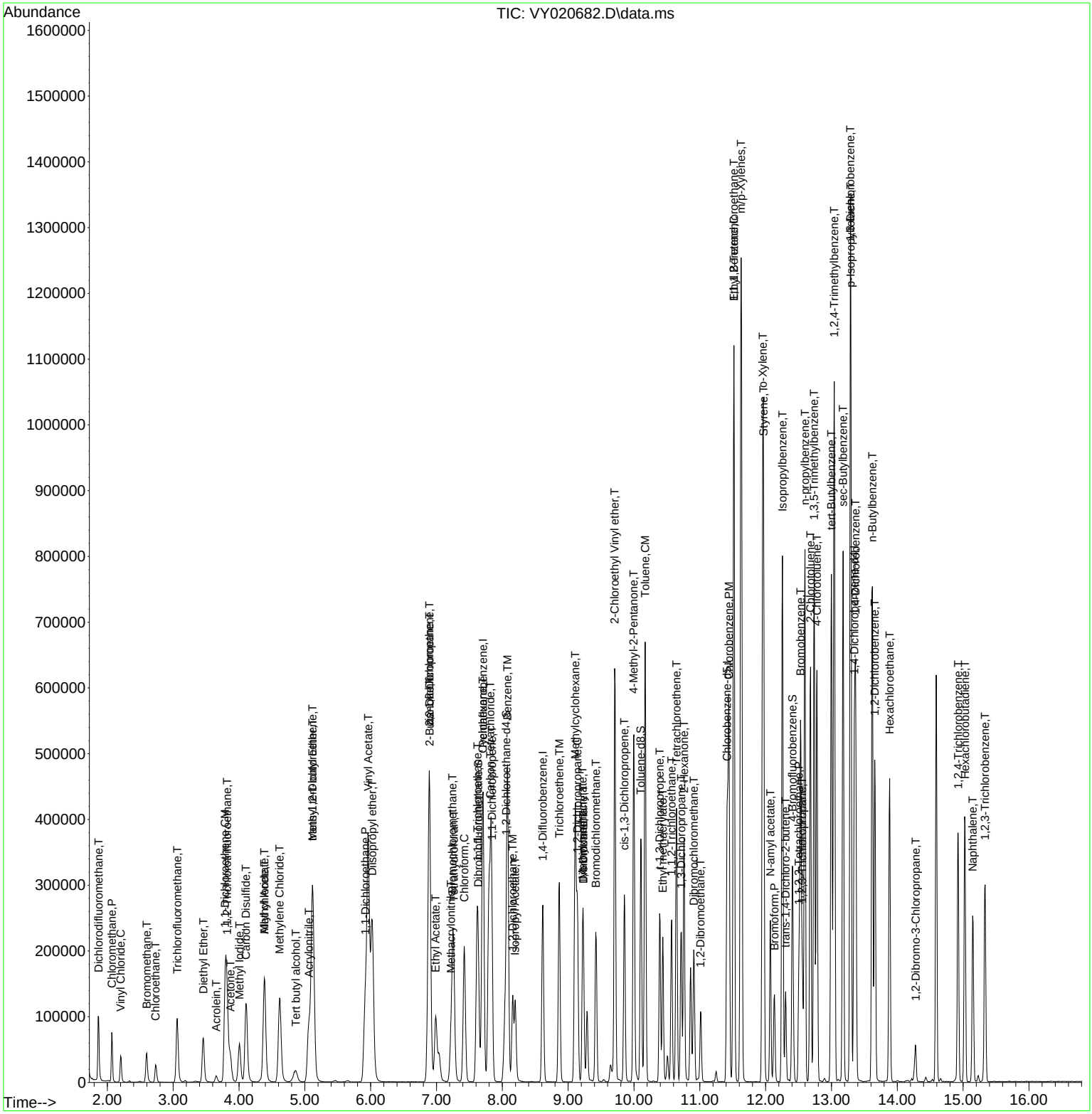
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

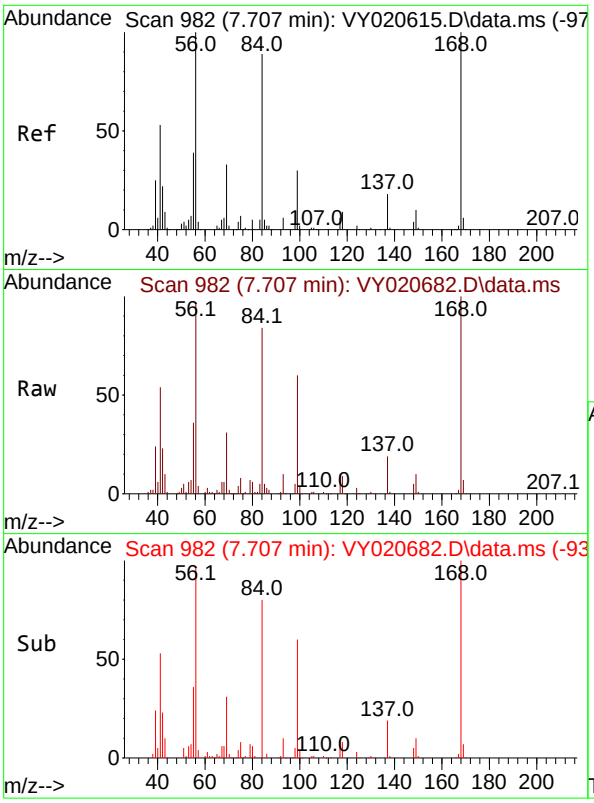
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122024\
Data File : VY020682.D
Acq On : 20 Dec 2024 19:35
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Dec 20 22:04:30 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y121724S.M
Quant Title : SW846 8260
QLast Update : Wed Dec 18 05:27:13 2024
Response via : Initial Calibration



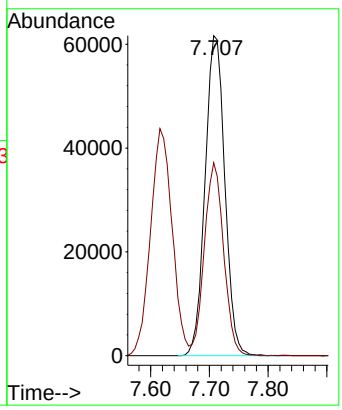


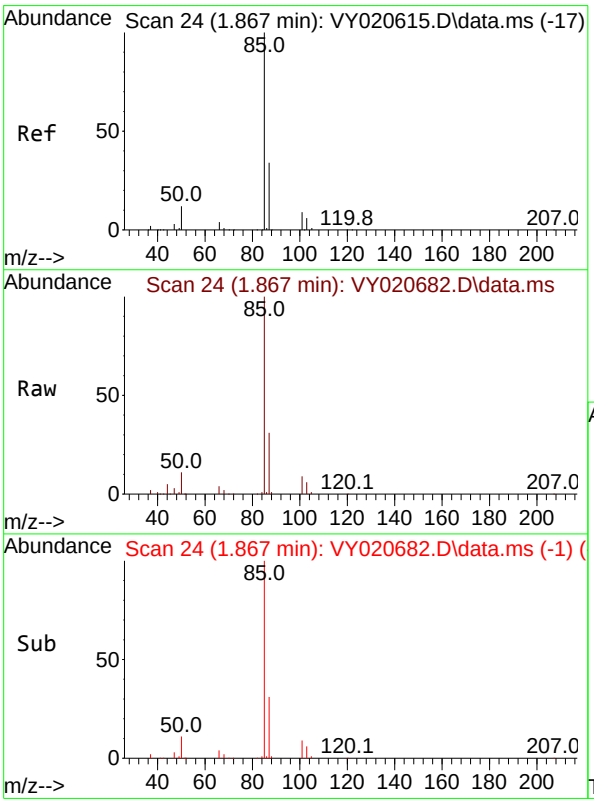

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:168 Resp: 143833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.3 | 47.0 | 70.6 |

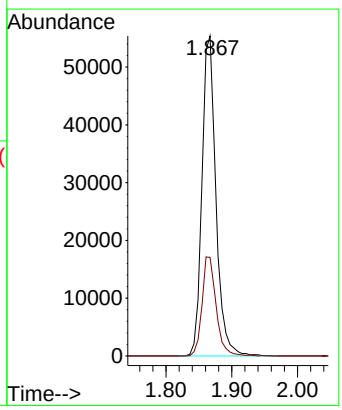


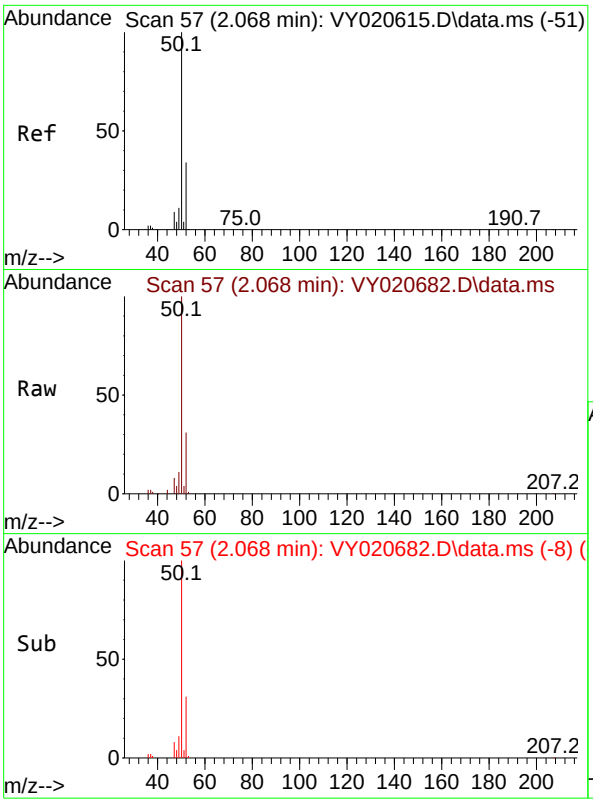




#2
Dichlorodifluoromethane
Concen: 45.502 ug/l
RT: 1.867 min Scan# 24
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 85 Resp: 81747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 30.8 | 16.8 | 50.3 |



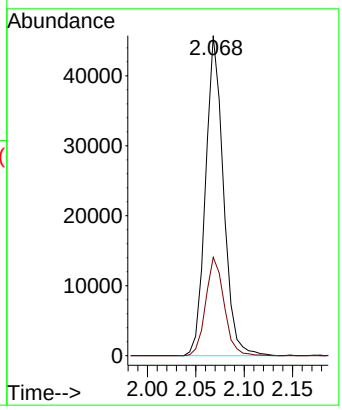


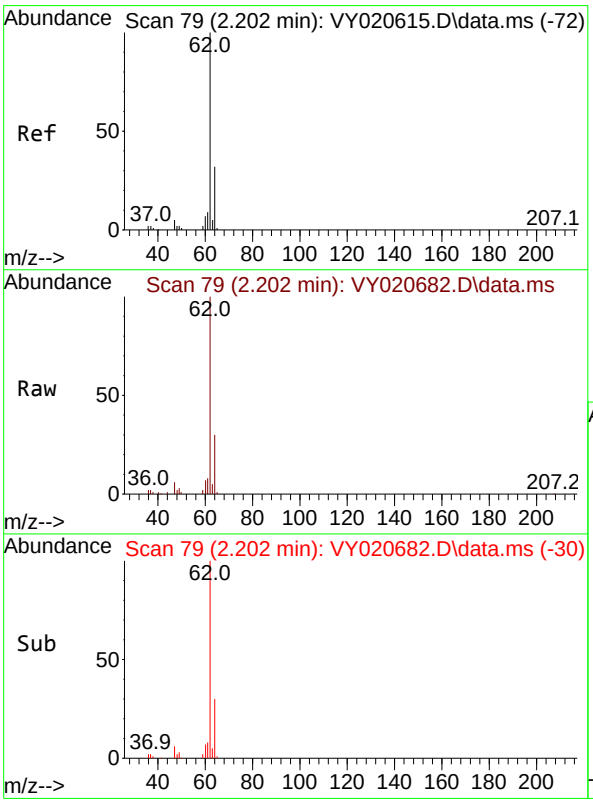

#3
Chloromethane
Concen: 44.285 ug/l
RT: 2.068 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 50 Resp: 58949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 30.8 | 26.8 | 40.2 |

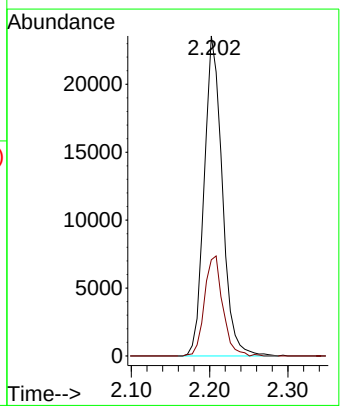


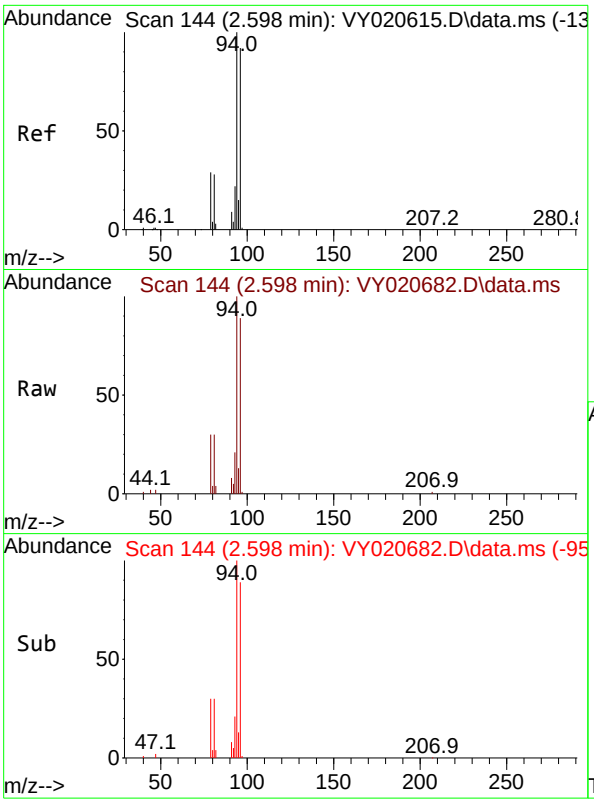




#4
Vinyl Chloride
Concen: 30.430 ug/l
RT: 2.202 min Scan# 79
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 62 Resp: 37701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 30.1 | 25.3 | 37.9 |



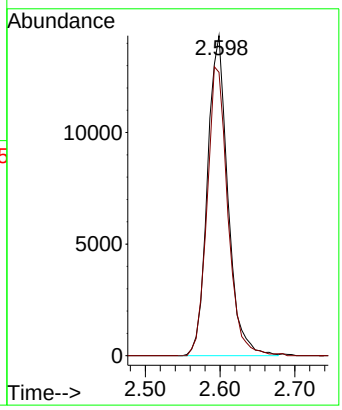


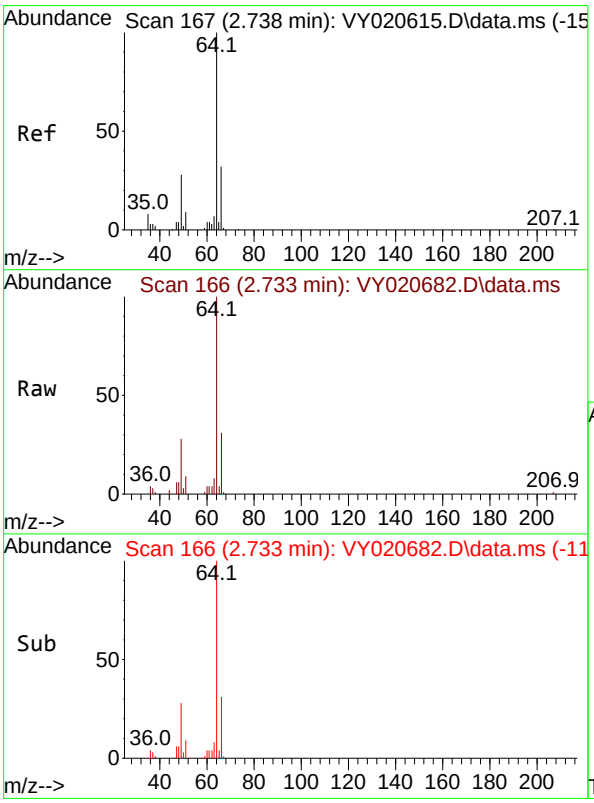

#5
Bromomethane
Concen: 34.241 ug/l
RT: 2.598 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 94 Resp: 27270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.6 | 73.8 | 110.6 |

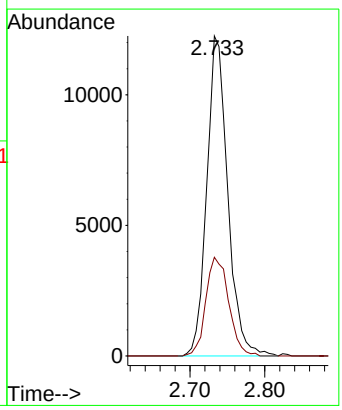


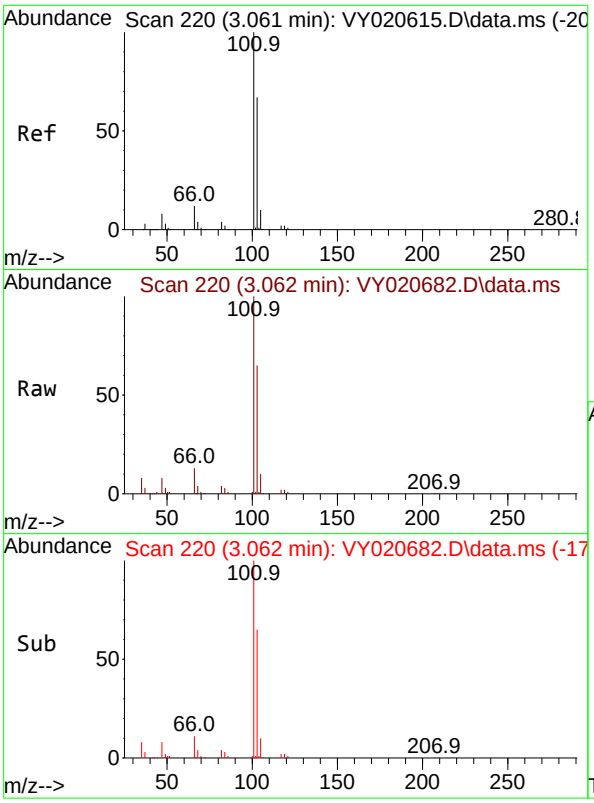




#6
Chloroethane
Concen: 31.154 ug/l
RT: 2.733 min Scan# 166
Delta R.T. -0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 64 Resp: 23852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.9 | 25.8 | 38.6 |



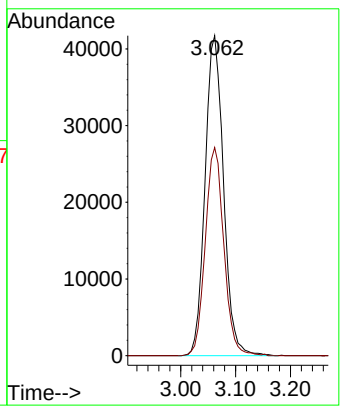


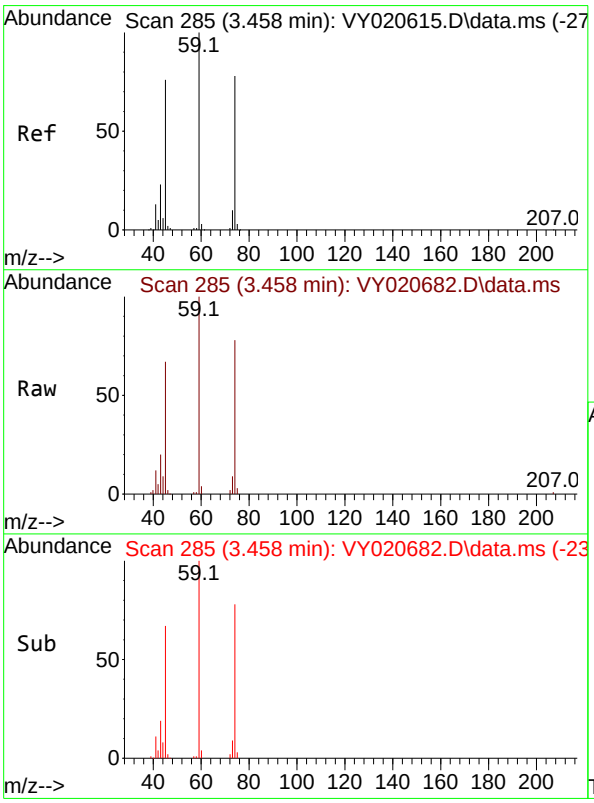

#7
Trichlorofluoromethane
Concen: 37.582 ug/l
RT: 3.062 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 97429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.0 | 53.4 | 80.0 |

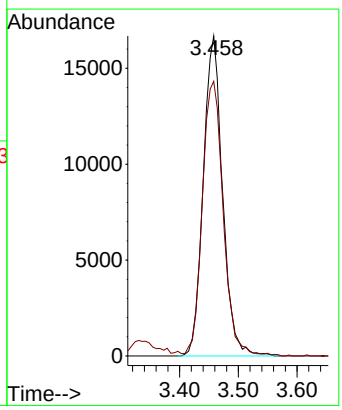


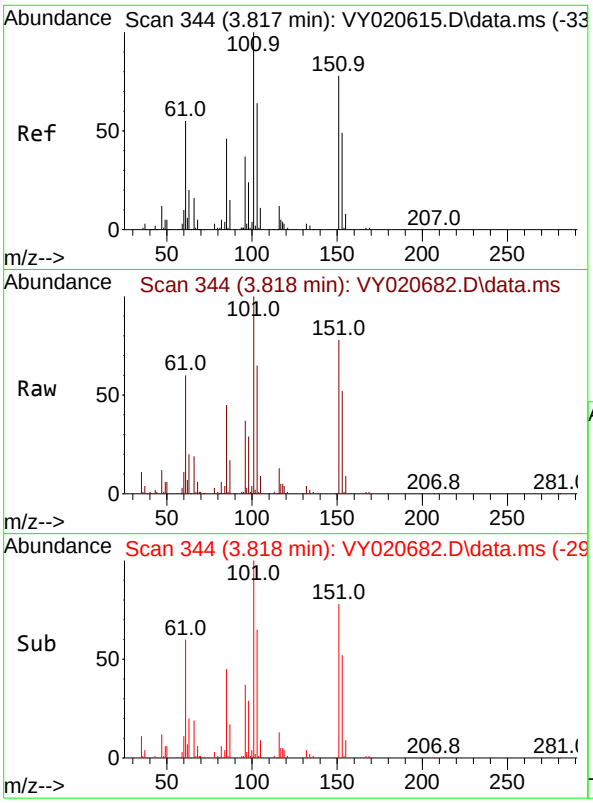




#8
Diethyl Ether
Concen: 41.896 ug/l
RT: 3.458 min Scan# 285
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 74 Resp: 38091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.0 | 49.0 | 147.2 |



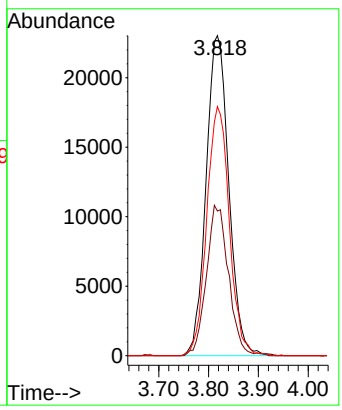


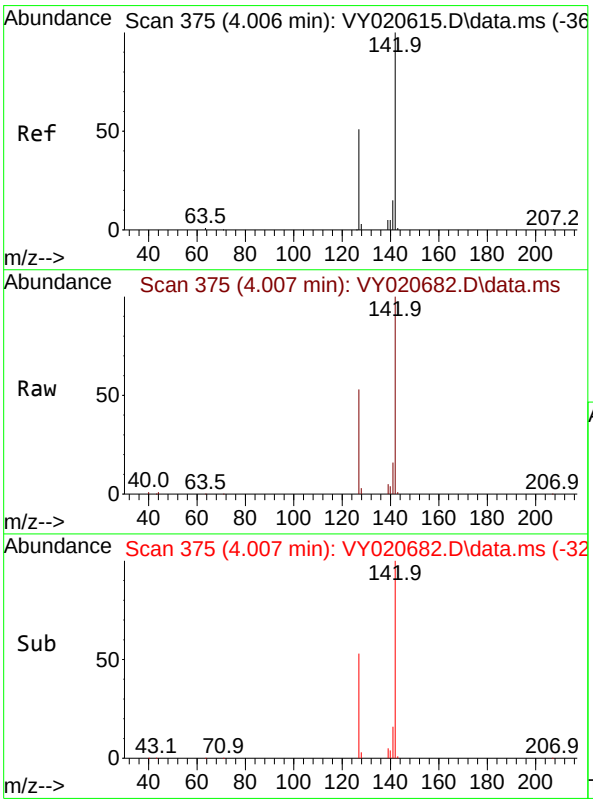

#9
1,1,2-Trichlorotrifluoroethane
Concen: 39.189 ug/l
RT: 3.818 min Scan# 34
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 72820

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 45.8 | 36.6 | 54.8 |
| 151 | 77.5 | 61.5 | 92.3 |

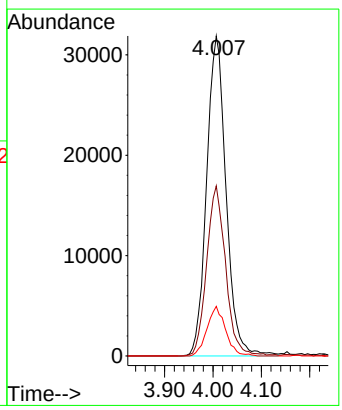


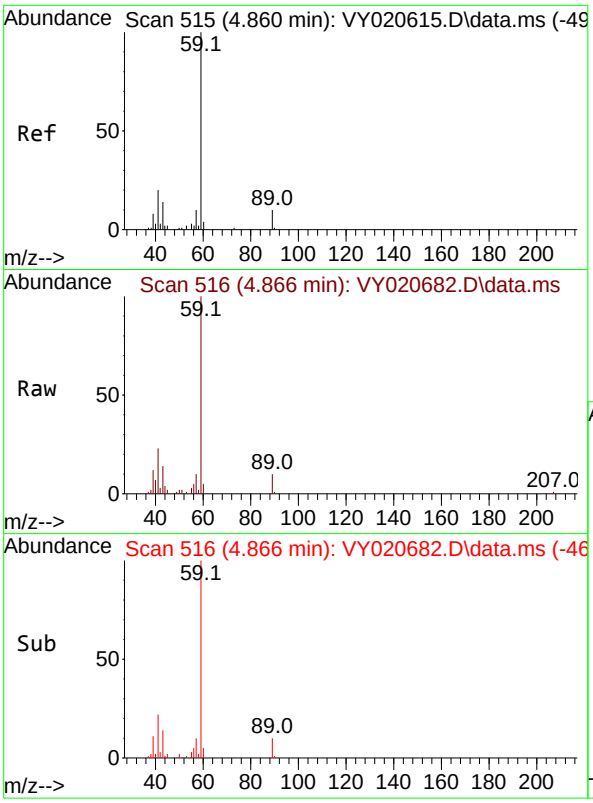




#10
Methyl Iodide
Concen: 43.050 ug/l
RT: 4.007 min Scan# 375
Delta R.T. 0.001 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:142 Resp: 89063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 51.8 | 40.6 | 61.0 |
| 141 | 14.8 | 11.7 | 17.5 |



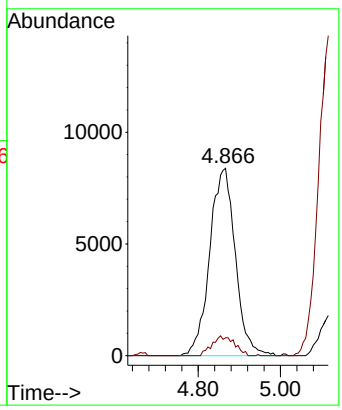


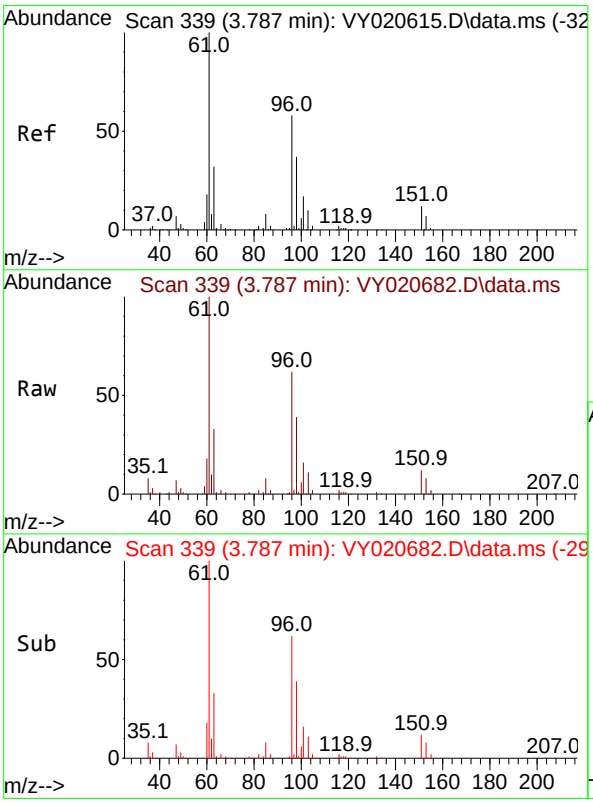

#11
Tert butyl alcohol
Concen: 213.879 ug/l
RT: 4.866 min Scan# 5
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 59 Resp: 36300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.2 | 7.4 | 11.0 |

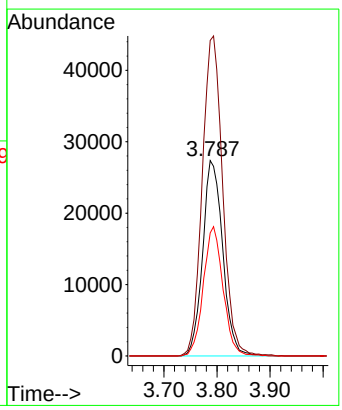


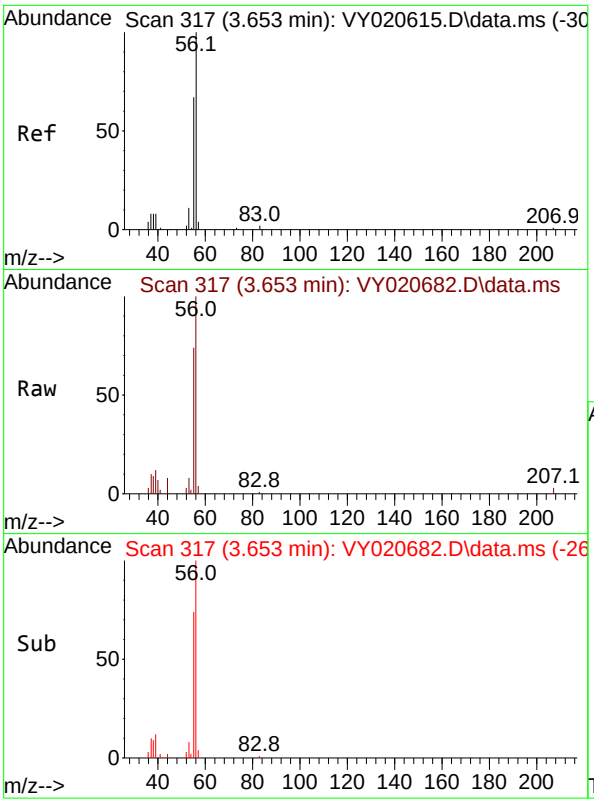




#12
1,1-Dichloroethene
Concen: 39.896 ug/l
RT: 3.787 min Scan# 339
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 96 Resp: 71932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.5 | 136.9 | 205.3 |
| 98 | 63.0 | 50.2 | 75.4 |



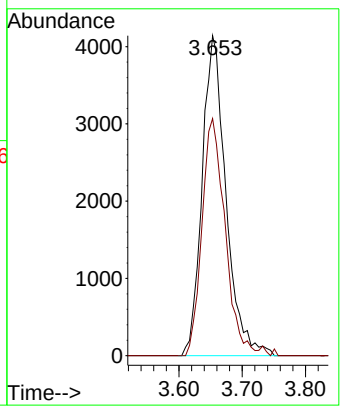


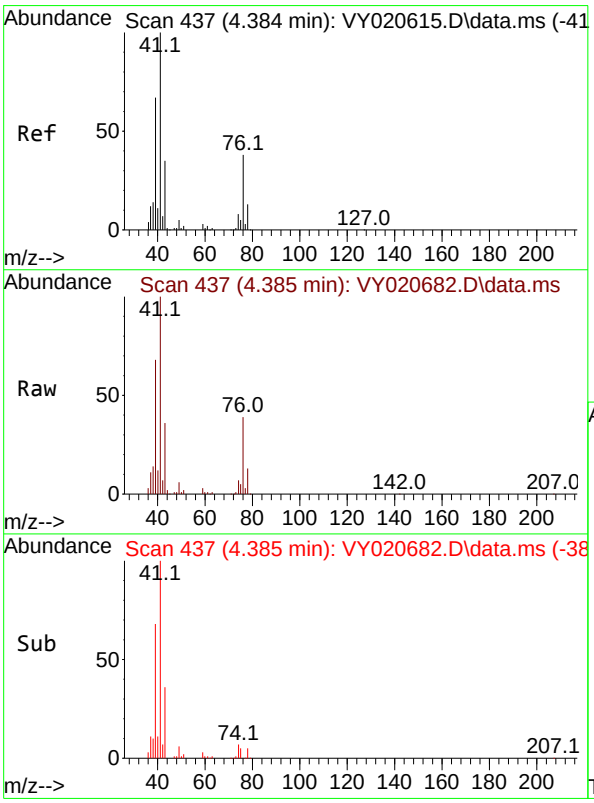

#13
Acrolein
Concen: 145.691 ug/l
RT: 3.653 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 10852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 71.7 | 57.5 | 86.3 |

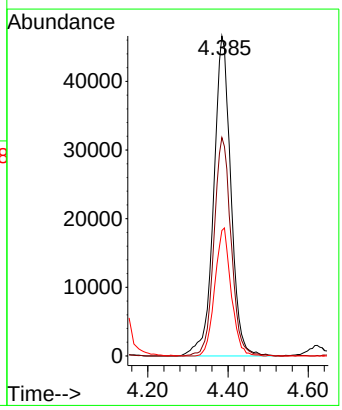


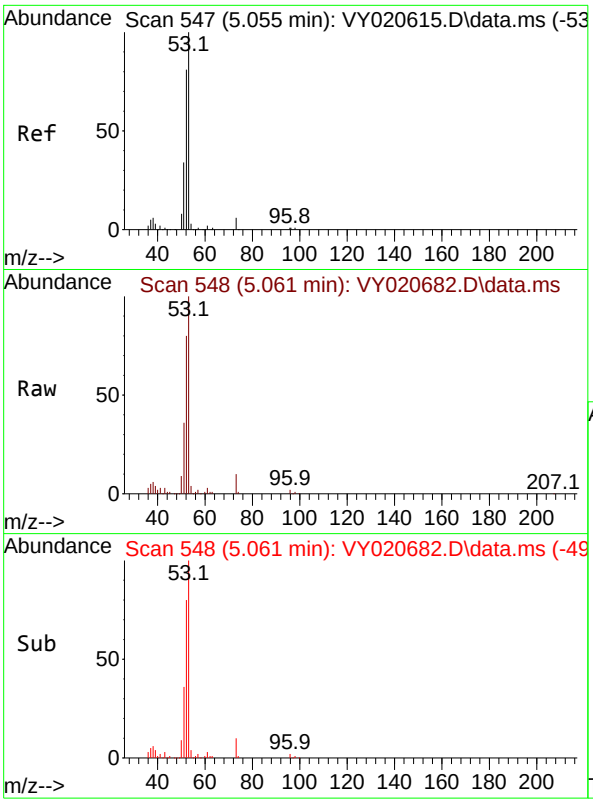




#14
Allyl chloride
Concen: 43.827 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 41 Resp: 138460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.0 | 53.0 | 79.4 |
| 76 | 38.0 | 29.5 | 44.3 |



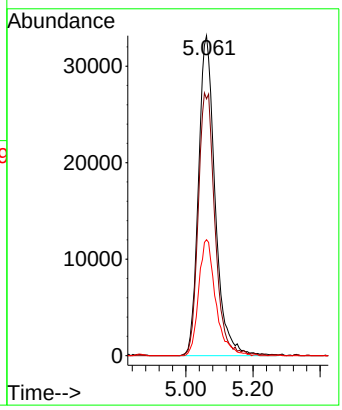


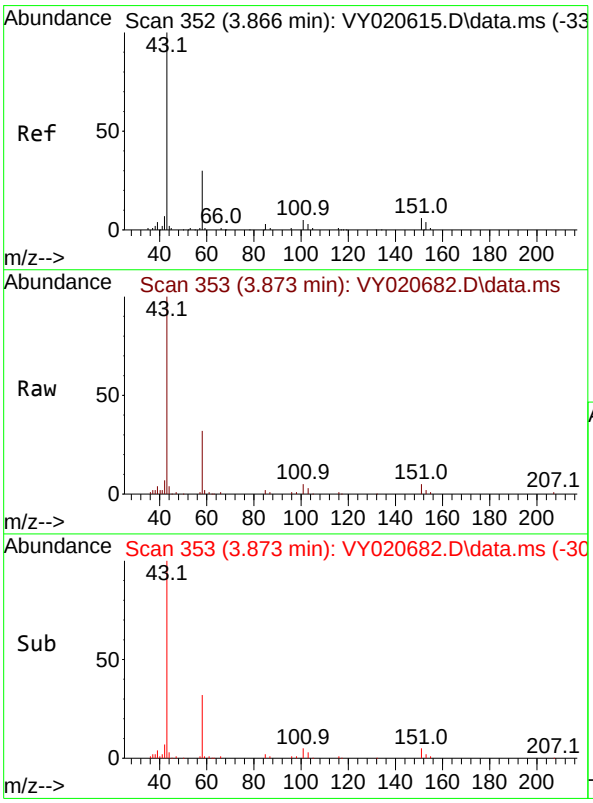

#15
Acrylonitrile
Concen: 262.307 ug/l
RT: 5.061 min Scan# 54
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 53 Resp: 114092

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.5 | 64.5 | 96.7 |
| 51 | 37.2 | 29.4 | 44.0 |

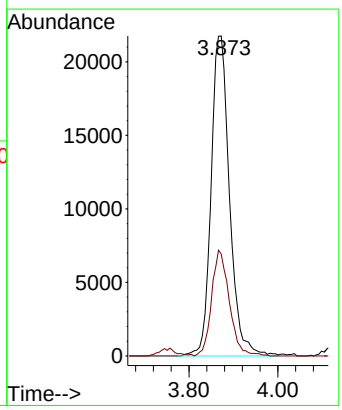


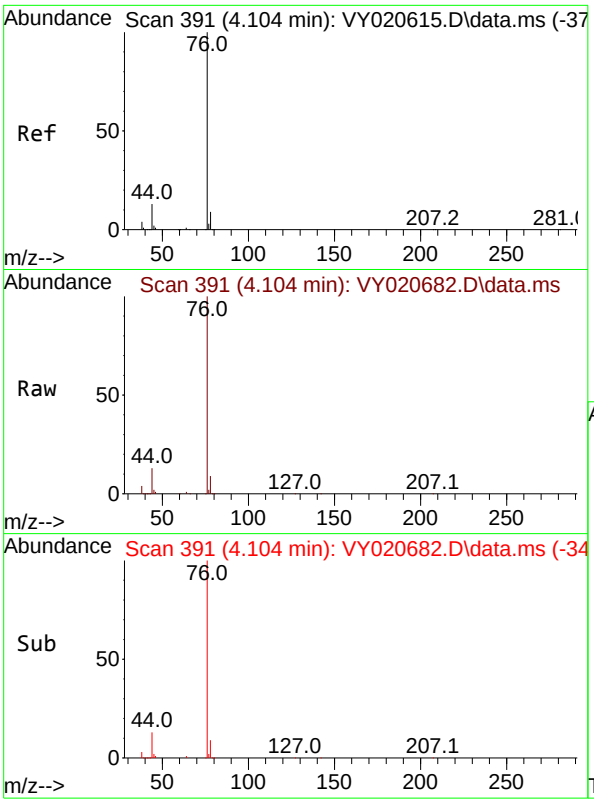




#16
Acetone
Concen: 198.675 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.007 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 62589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.8 | 25.0 | 37.6 |



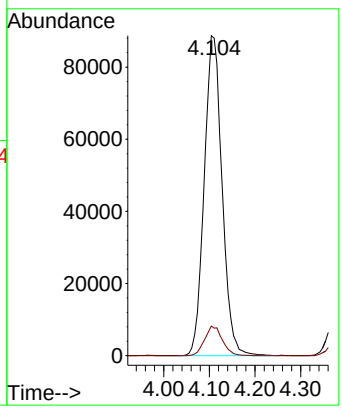


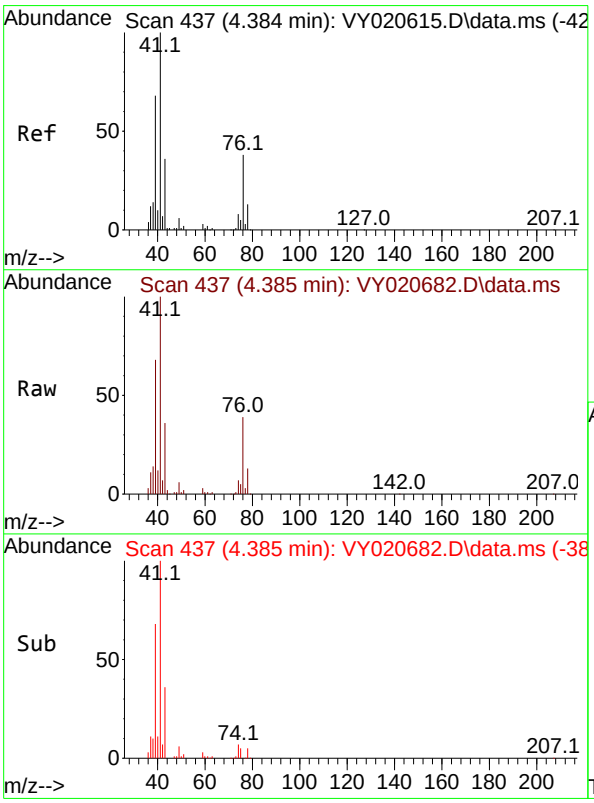

#17
Carbon Disulfide
Concen: 41.052 ug/l
RT: 4.104 min Scan# 3
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 240927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.2 | 10.8 |

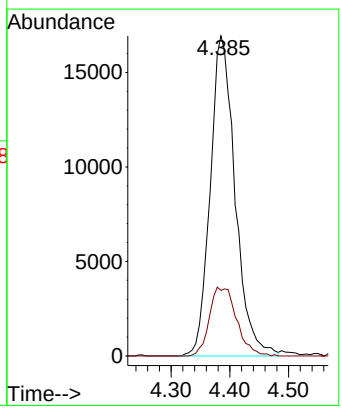


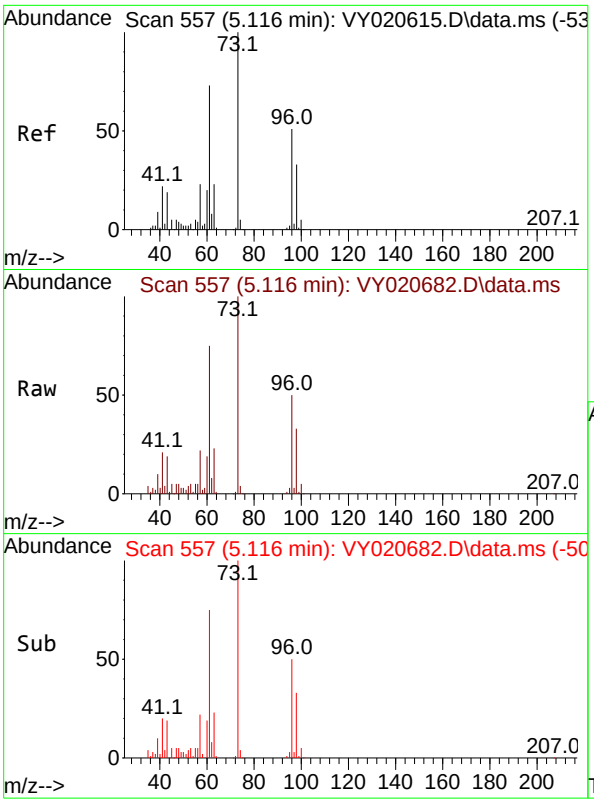




#18
Methyl Acetate
Concen: 46.480 ug/l
RT: 4.385 min Scan# 437
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 49816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 23.4 | 19.2 | 28.8 |



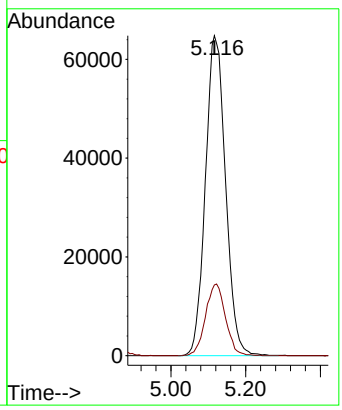


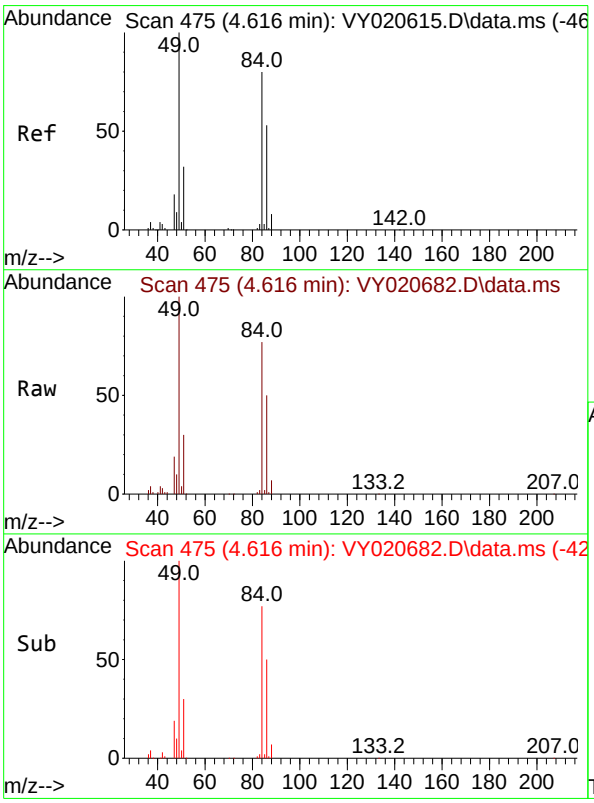

#19
Methyl tert-butyl Ether
Concen: 52.095 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 73 Resp: 242425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.1 | 18.5 | 27.7 |

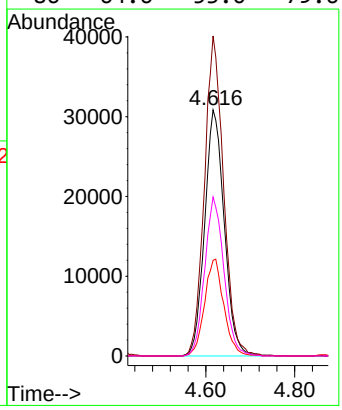


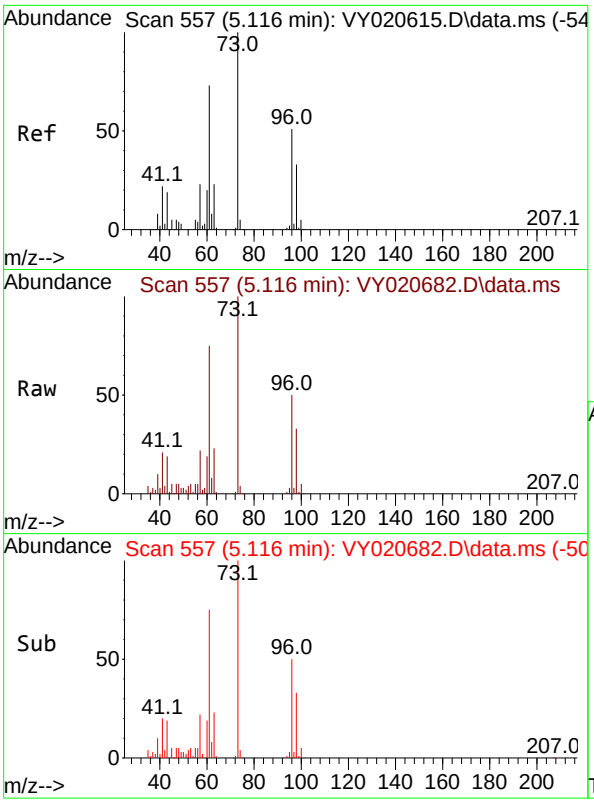




#20
Methylene Chloride
Concen: 48.394 ug/l
RT: 4.616 min Scan# 475
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 84 Resp: 94785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 130.0 | 100.7 | 151.1 |
| 51 | 38.9 | 32.2 | 48.2 |
| 86 | 64.6 | 53.0 | 79.6 |



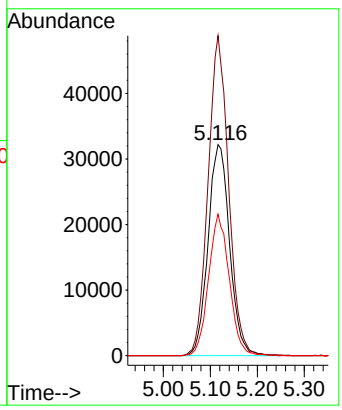


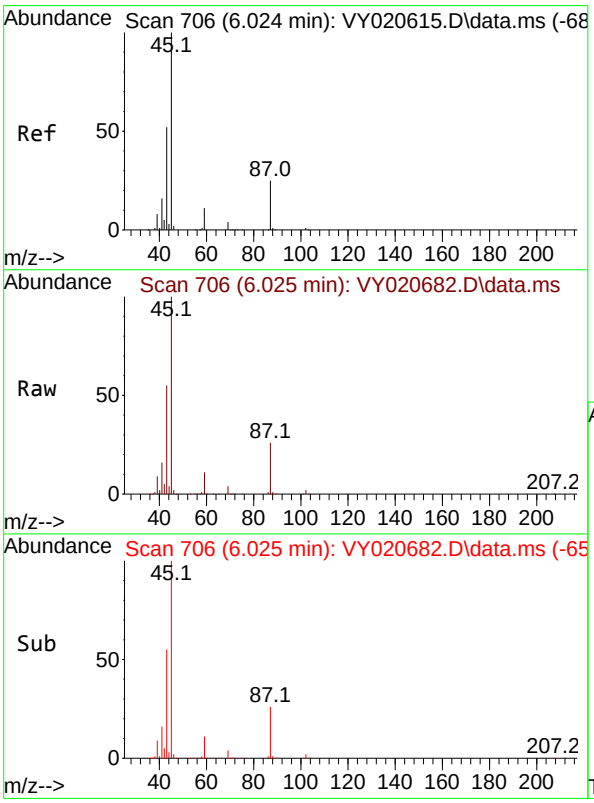

#21
trans-1,2-Dichloroethene
Concen: 50.685 ug/l
RT: 5.116 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 102508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 151.6 | 113.7 | 170.5 |
| 98 | 67.0 | 51.7 | 77.5 |

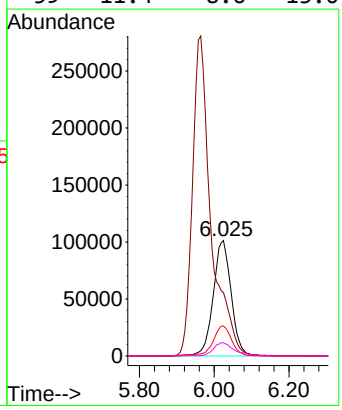


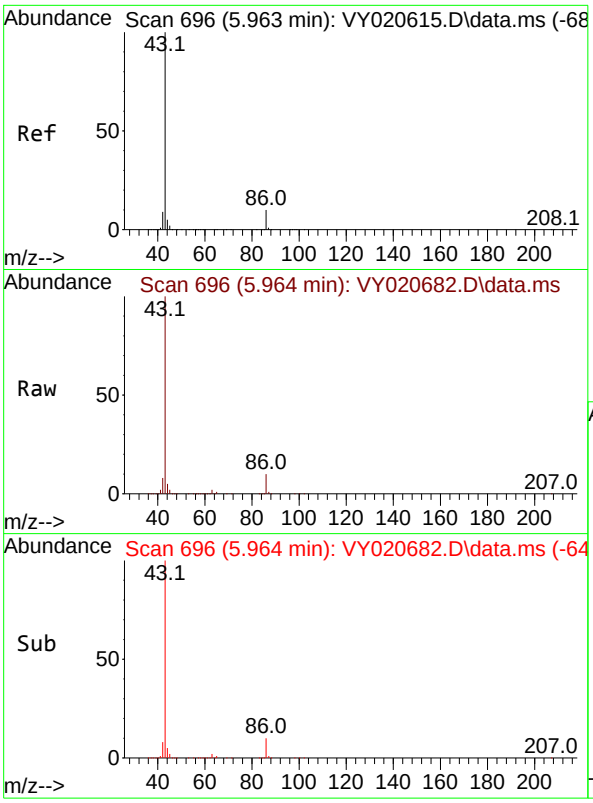




#22
Diisopropyl ether
Concen: 52.616 ug/l
RT: 6.025 min Scan# 706
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 45 Resp: 337414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 54.5 | 42.6 | 64.0 |
| 87 | 25.9 | 20.6 | 31.0 |
| 59 | 11.4 | 8.6 | 13.0 |



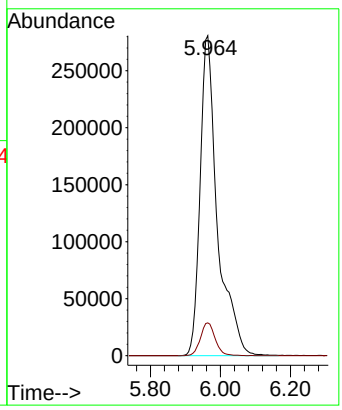


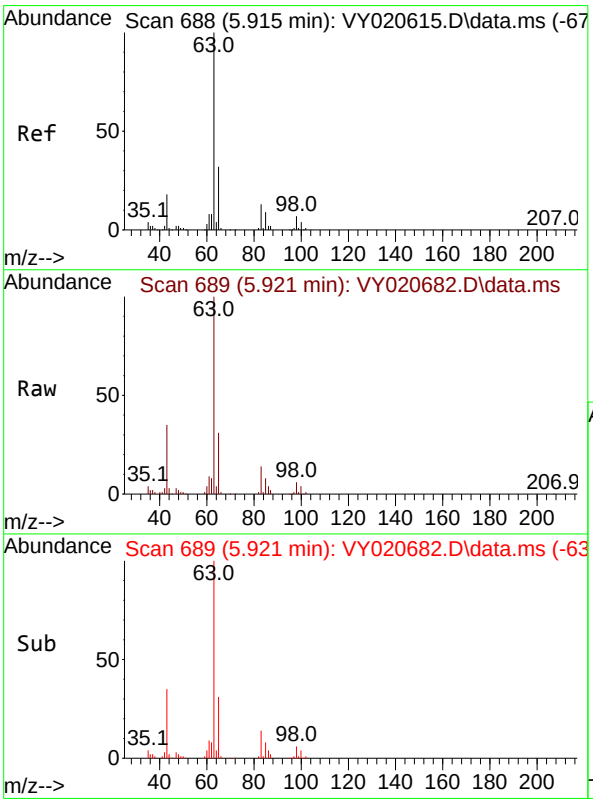

#23
Vinyl Acetate
Concen: 266.302 ug/l
RT: 5.964 min Scan# 6
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 967217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.2 | 8.1 | 12.1 |

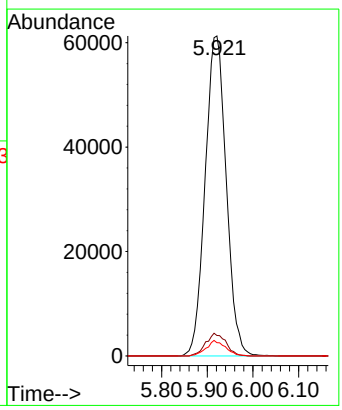


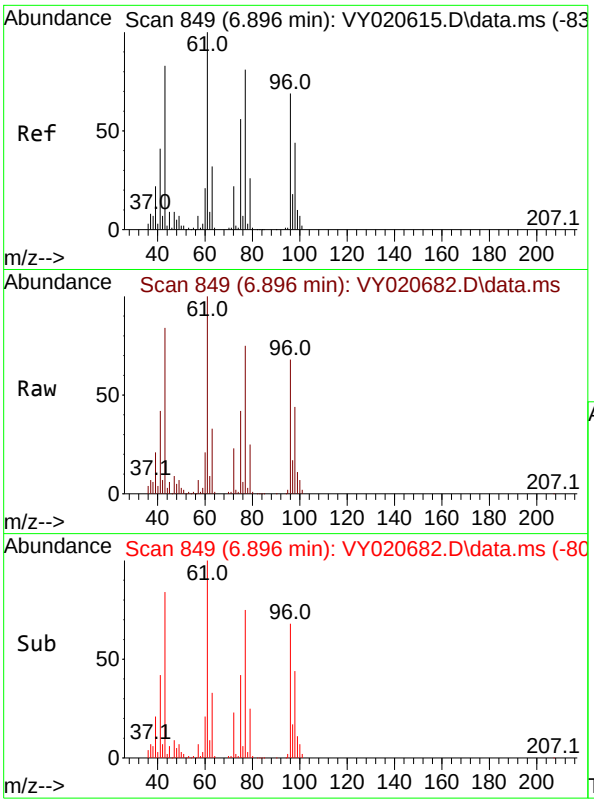




#24
1,1-Dichloroethane
Concen: 52.280 ug/l
RT: 5.921 min Scan# 689
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 63 Resp: 196407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.4 | 3.4 | 10.1 |
| 100 | 4.2 | 2.1 | 6.5 |



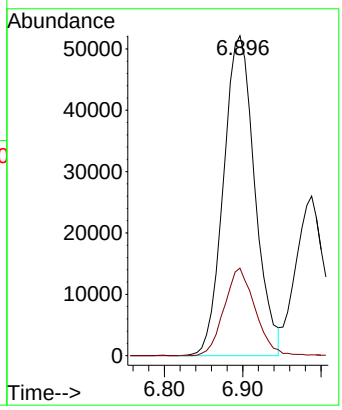


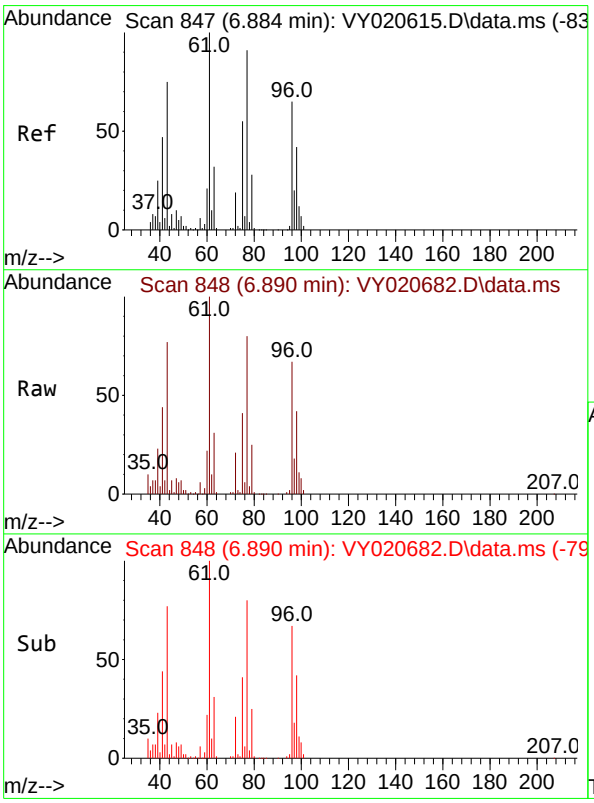

#25
2-Butanone
Concen: 247.823 ug/l
RT: 6.896 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 145082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.4 | 20.6 | 31.0 |

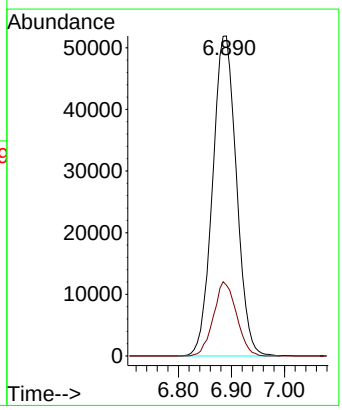


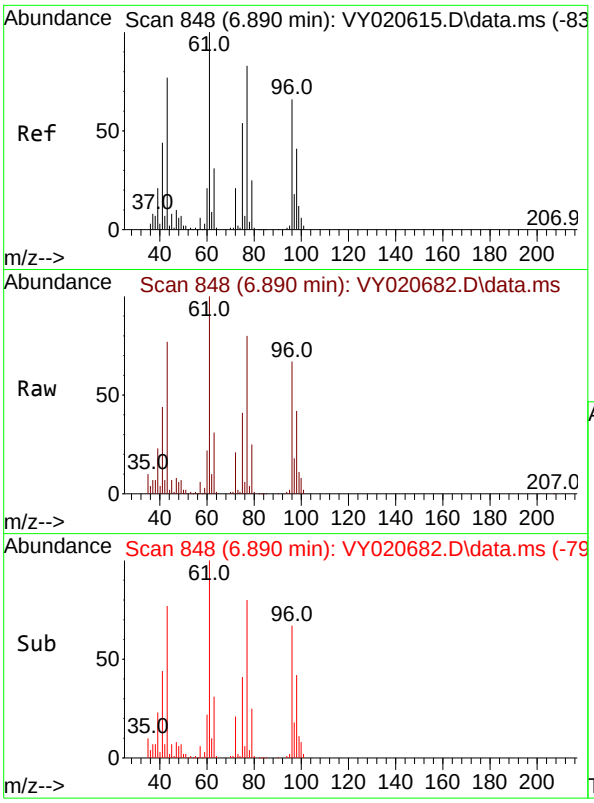




#26
2,2-Dichloropropane
Concen: 45.653 ug/l
RT: 6.890 min Scan# 848
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 77 Resp: 162135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.4 | 10.9 | 32.6 |



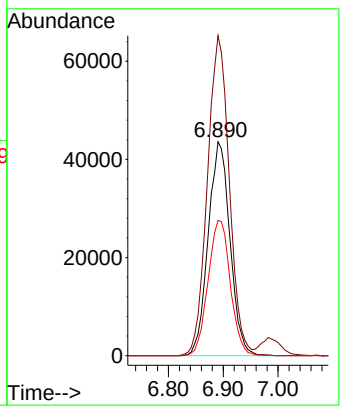


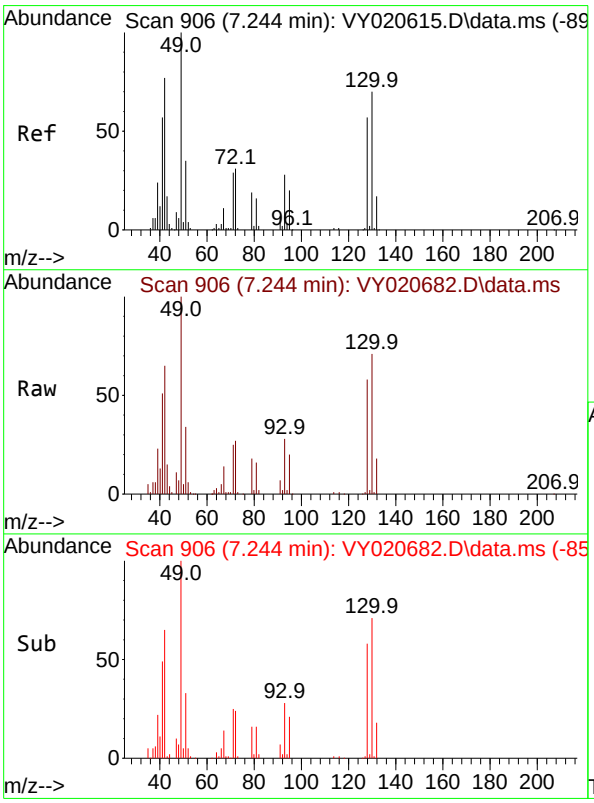

#27
cis-1,2-Dichloroethene
Concen: 51.699 ug/l
RT: 6.890 min Scan# 84
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 120298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.9 | 0.0 | 306.2 |
| 98 | 64.6 | 0.0 | 127.2 |

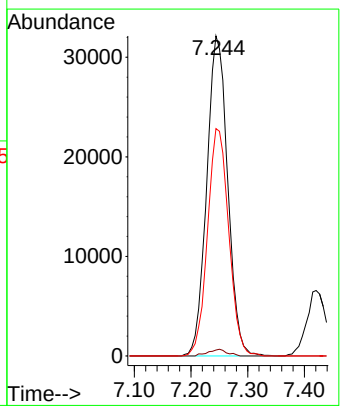


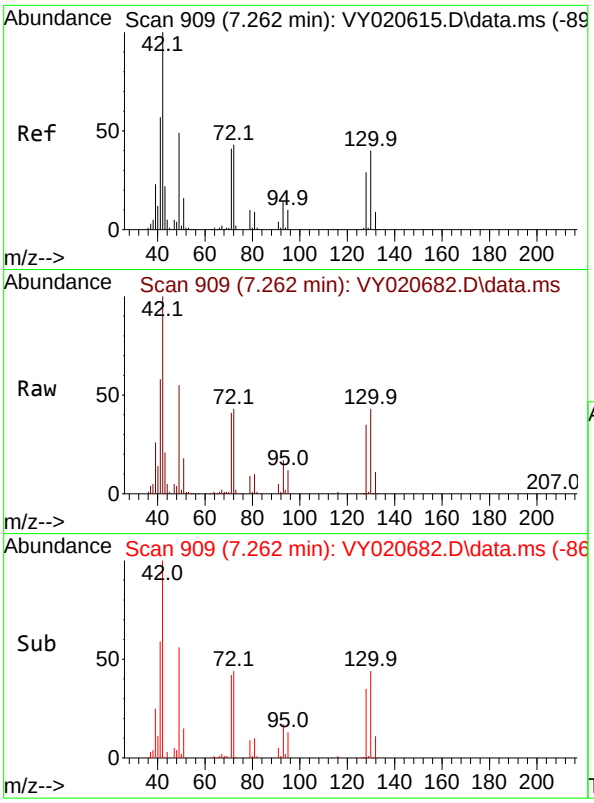




#28
Bromochloromethane
Concen: 65.015 ug/l
RT: 7.244 min Scan# 906
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 49 Resp: 82386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 3.8 |
| 130 | 72.1 | 58.3 | 87.5 |



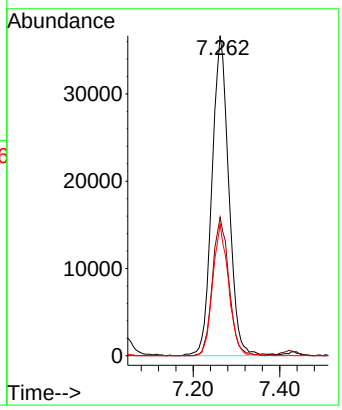


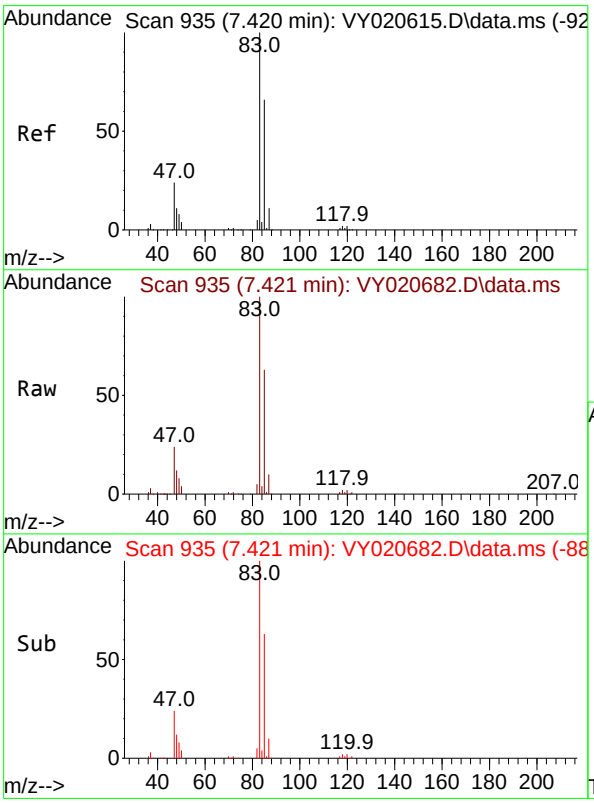

#29
Tetrahydrofuran
Concen: 268.209 ug/l
RT: 7.262 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 42 Resp: 99121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 42.2 | 34.0 | 51.0 |
| 71 | 38.9 | 31.6 | 47.4 |

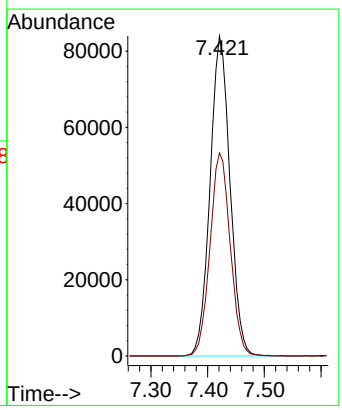


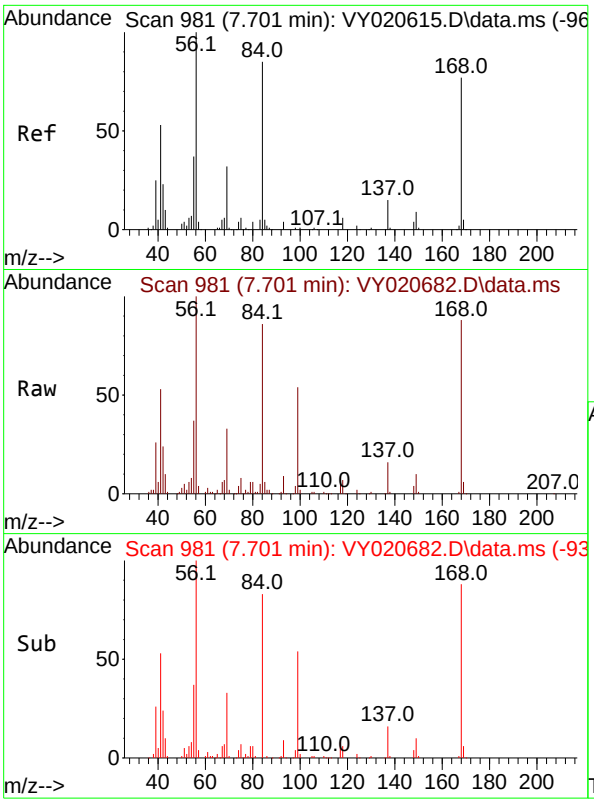




#30
Chloroform
Concen: 54.780 ug/l
RT: 7.421 min Scan# 935
Delta R.T. 0.001 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 83 Resp: 204738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 52.7 | 79.1 |



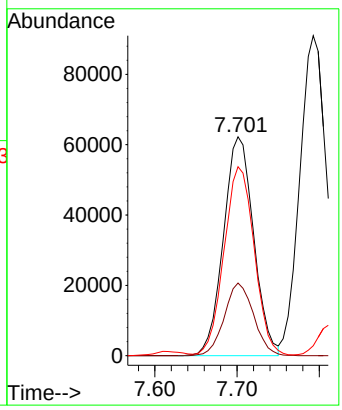


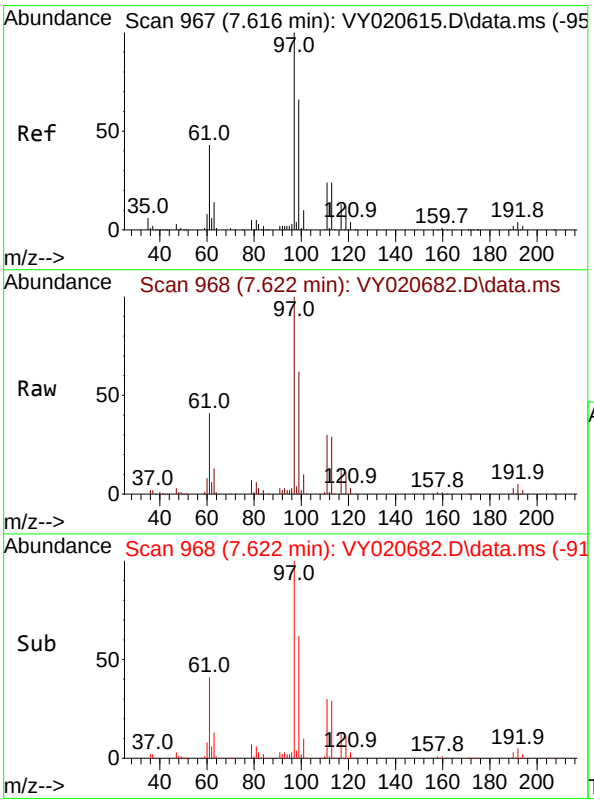

#31
Cyclohexane
Concen: 44.289 ug/l
RT: 7.701 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 159093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.2 | 25.4 | 38.0 |
| 84 | 84.8 | 68.3 | 102.5 |

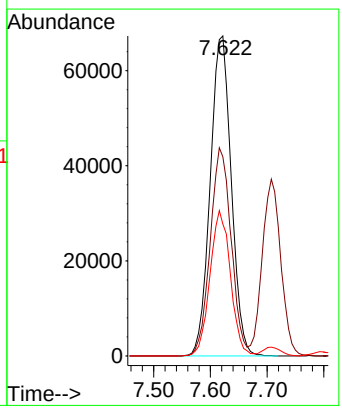


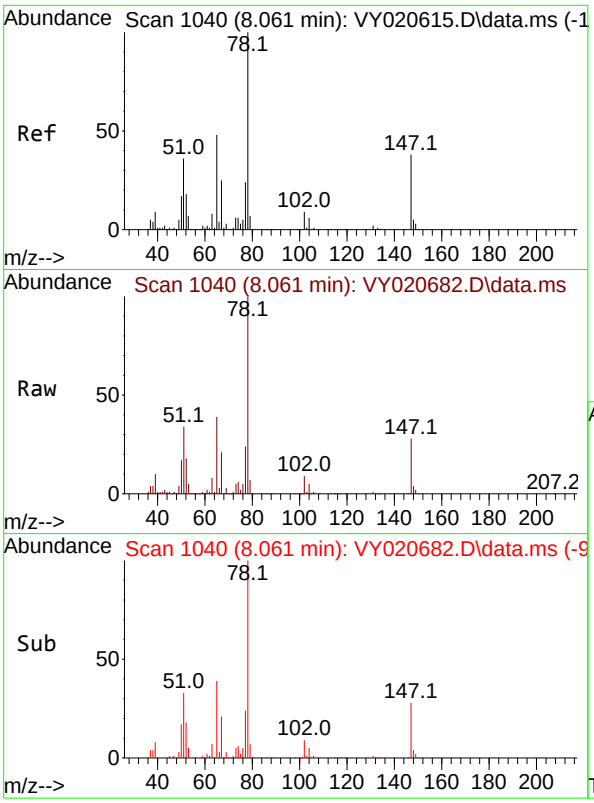




#32
1,1,1-Trichloroethane
Concen: 50.188 ug/l
RT: 7.622 min Scan# 968
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 97 Resp: 173221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.6 | 77.4 |
| 61 | 44.4 | 34.7 | 52.1 |



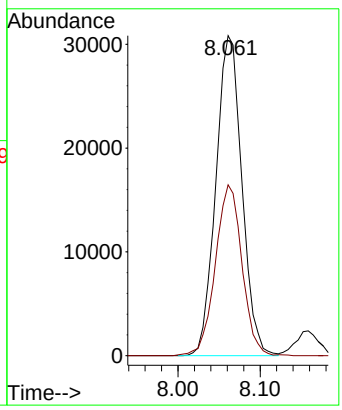


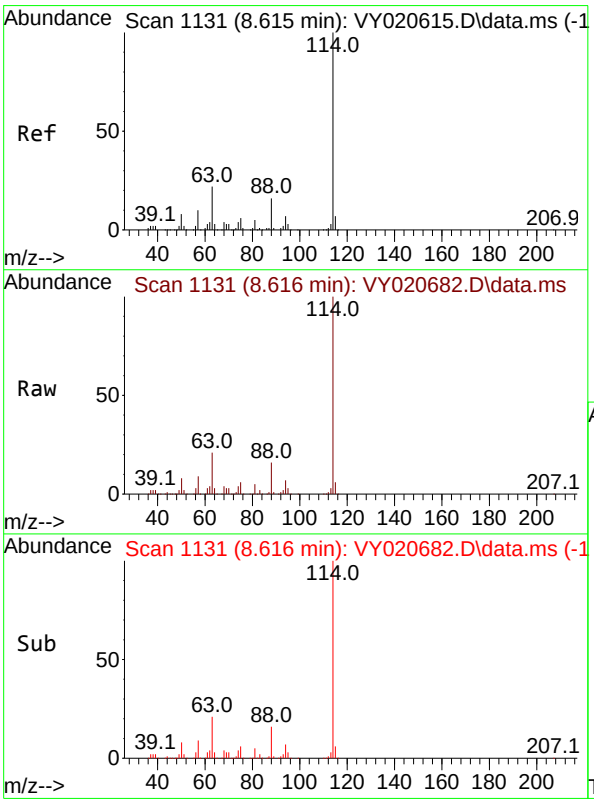

#33
1,2-Dichloroethane-d4
Concen: 43.111 ug/l
RT: 8.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 65 Resp: 67912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.6 | 0.0 | 108.0 |

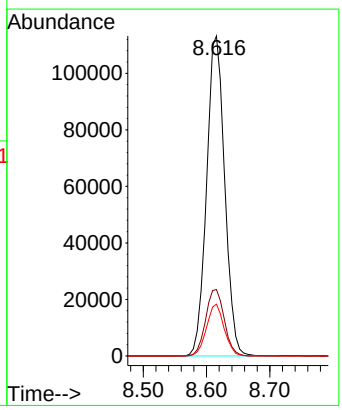


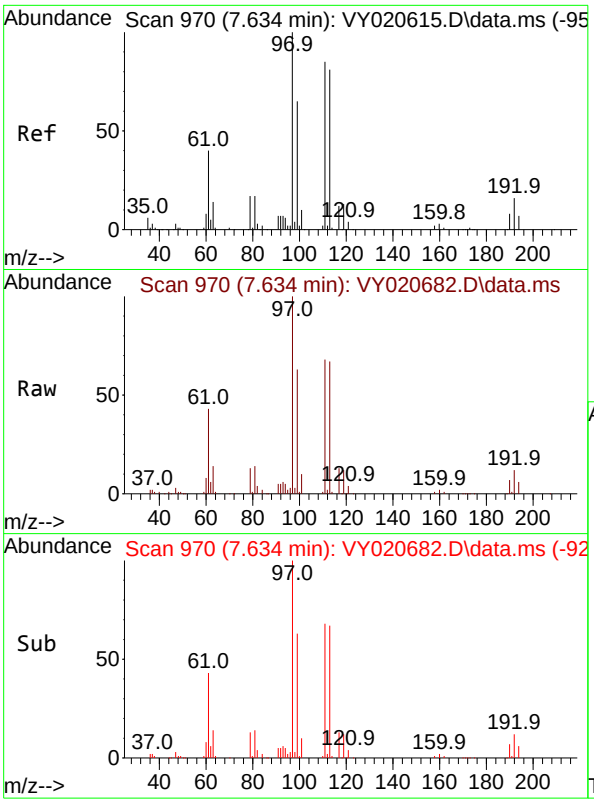




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:114 Resp: 225180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.8 | 0.0 | 44.0 |
| 88 | 16.2 | 0.0 | 32.8 |



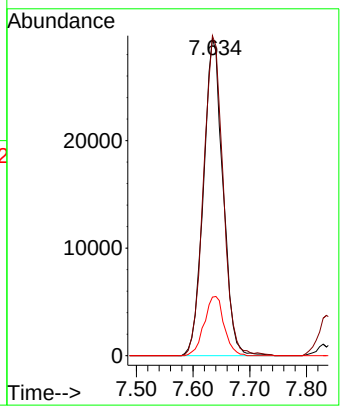


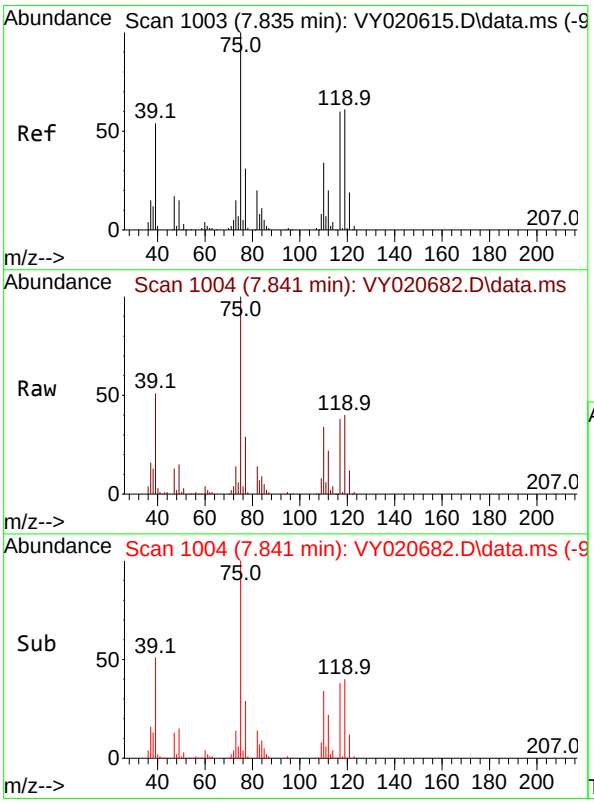

#35
Dibromofluoromethane
Concen: 44.159 ug/l
RT: 7.634 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:113 Resp: 70081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 82.9 | 124.3 |
| 192 | 19.1 | 15.7 | 23.5 |

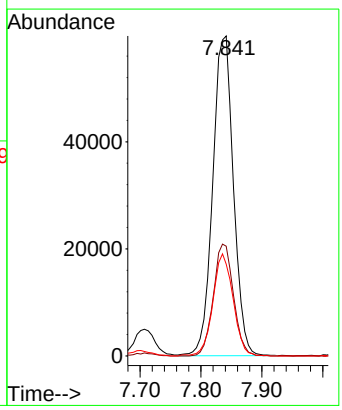


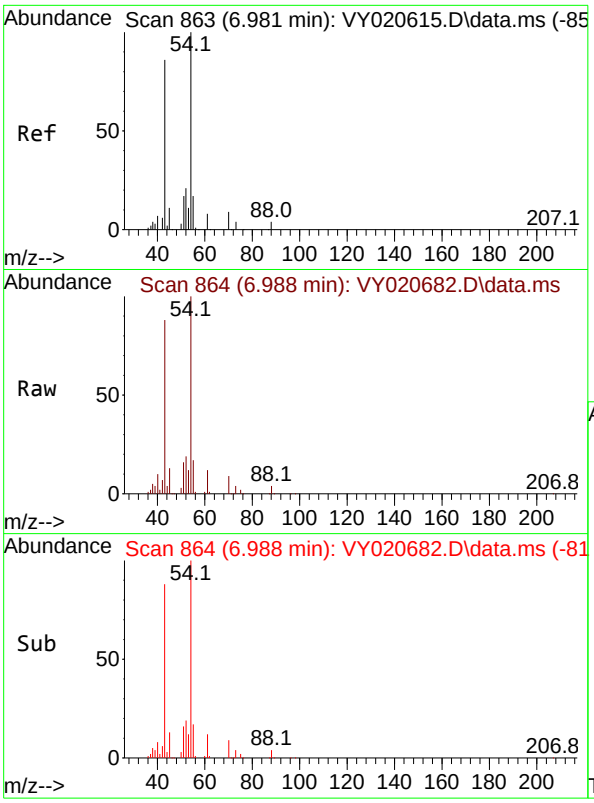




#36
1,1-Dichloropropene
Concen: 48.693 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 75 Resp: 140911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.1 | 16.8 | 50.4 |
| 77 | 31.2 | 25.0 | 37.6 |



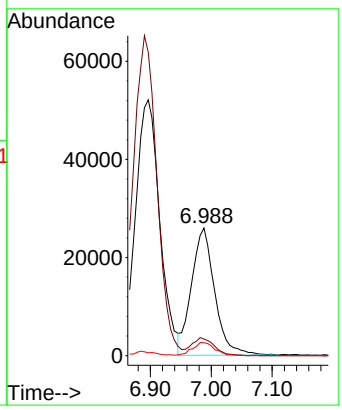


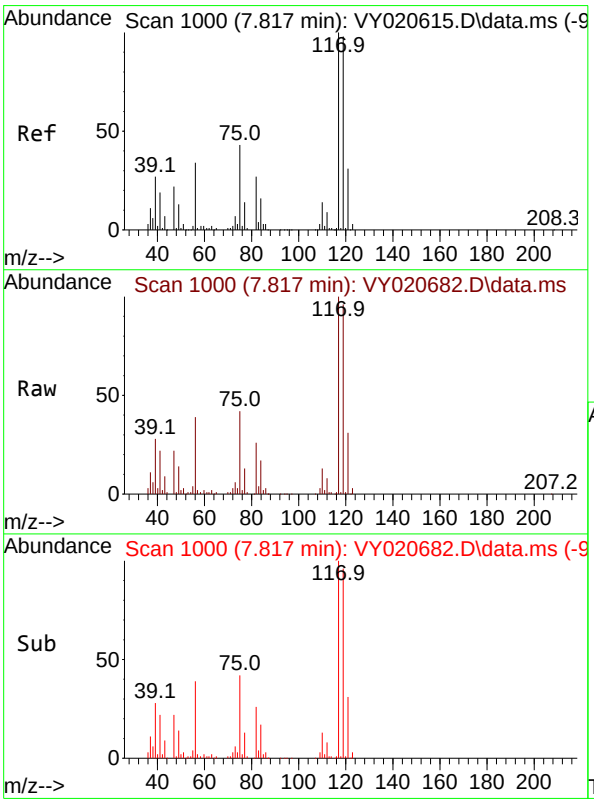

#37
Ethyl Acetate
Concen: 50.601 ug/l
RT: 6.988 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 68879

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.0 | 11.0 | 16.4 |
| 70 | 10.0 | 7.9 | 11.9 |

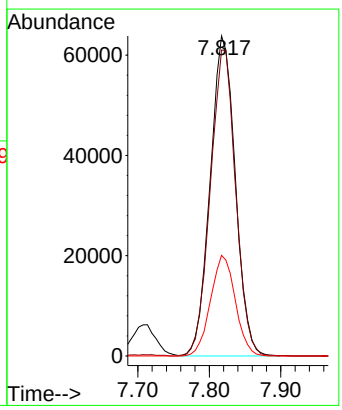


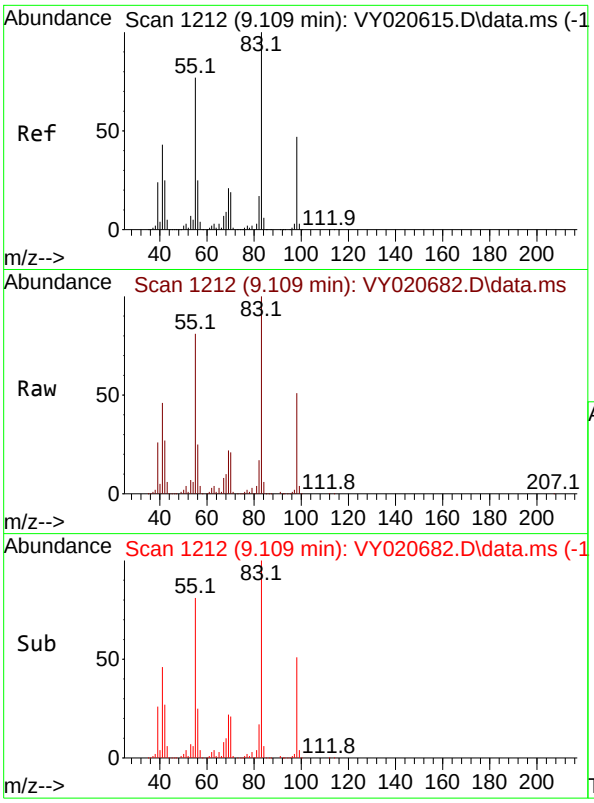




#38
Carbon Tetrachloride
Concen: 48.699 ug/l
RT: 7.817 min Scan# 1000
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:117 Resp: 155919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.6 | 78.3 | 117.5 |
| 121 | 31.5 | 25.1 | 37.7 |



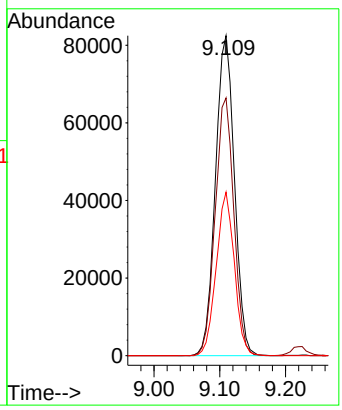


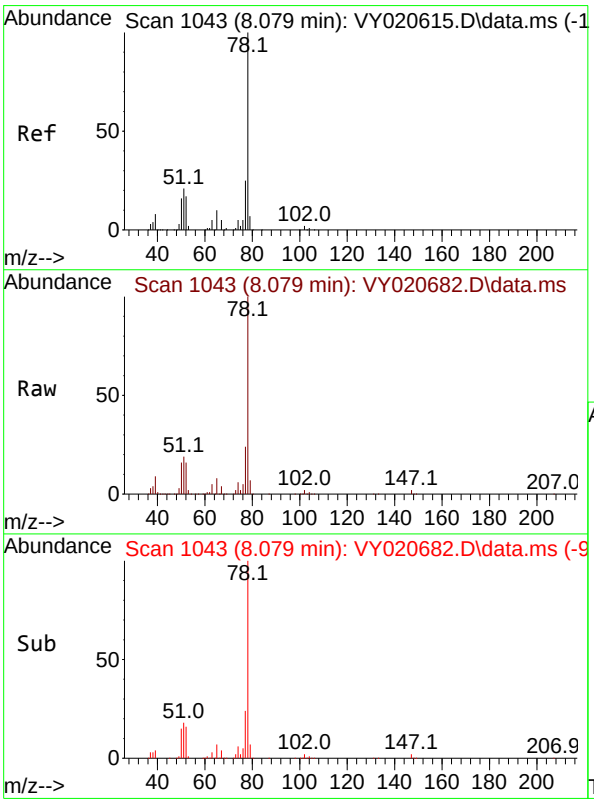

#39
Methylcyclohexane
Concen: 43.957 ug/l
RT: 9.109 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 165792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 80.6 | 61.4 | 92.0 |
| 98 | 51.1 | 37.3 | 55.9 |

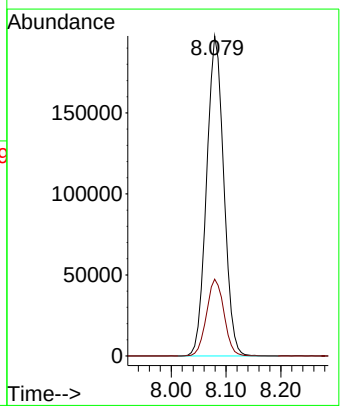


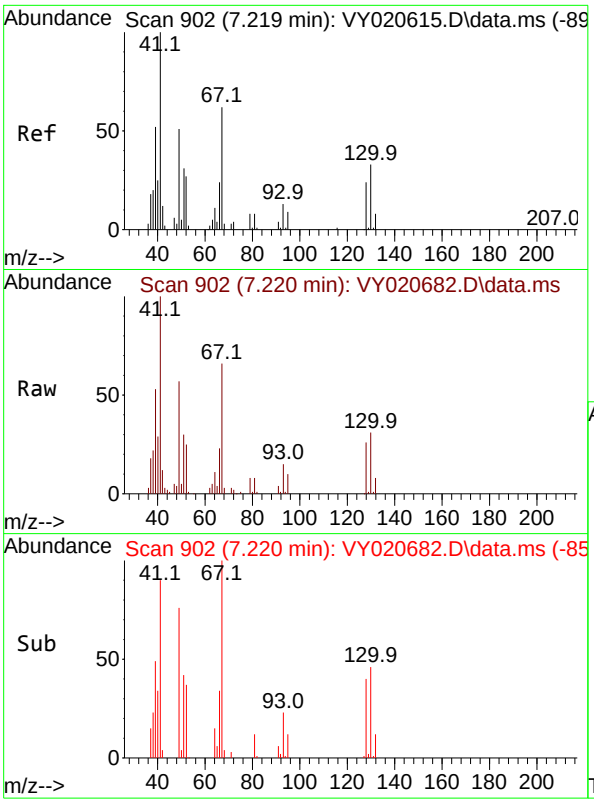




#40
Benzene
Concen: 50.578 ug/l
RT: 8.079 min Scan# 1043
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 78 Resp: 429017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 20.1 | 30.1 |



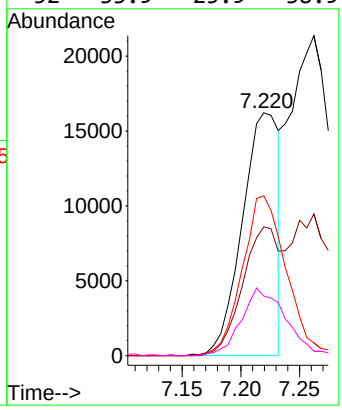


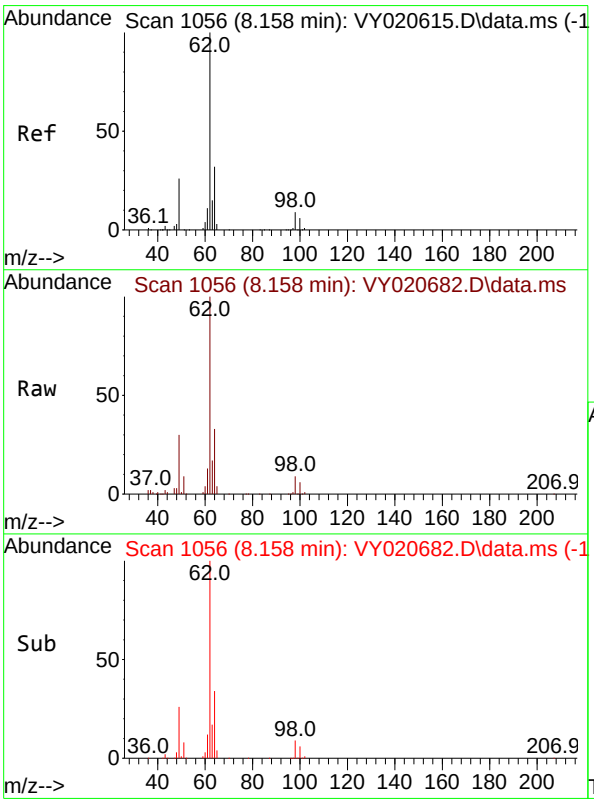

#41
Methacrylonitrile
Concen: 48.692 ug/l
RT: 7.220 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 41 Resp: 35040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 51.4 | 53.6 | 80.4# |
| 67 | 79.5 | 62.0 | 93.0 |
| 52 | 33.9 | 25.9 | 38.9 |

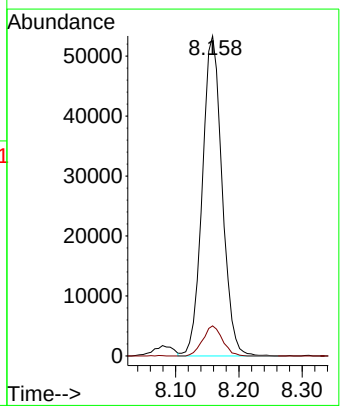


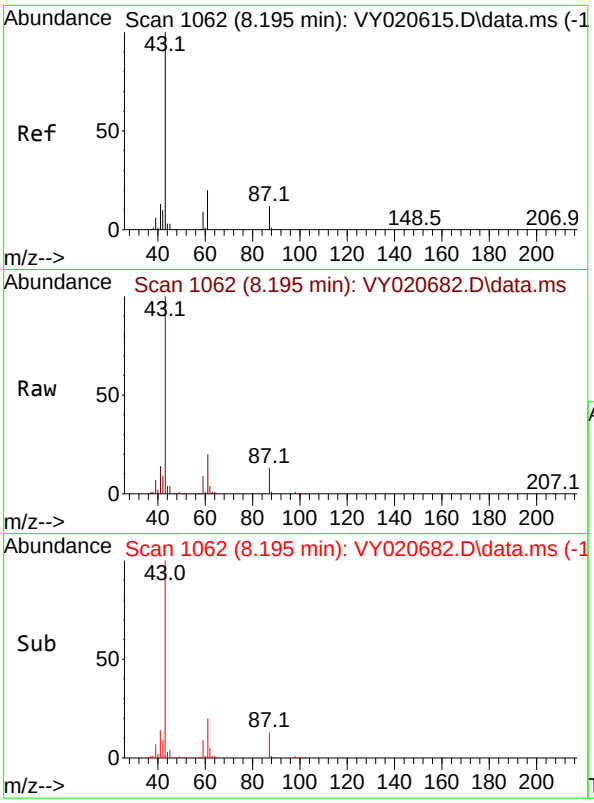




#42
1,2-Dichloroethane
Concen: 51.589 ug/l
RT: 8.158 min Scan# 1056
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 62 Resp: 116059

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.3 | 0.0 | 18.0 |



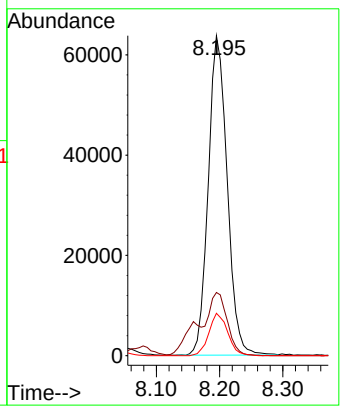


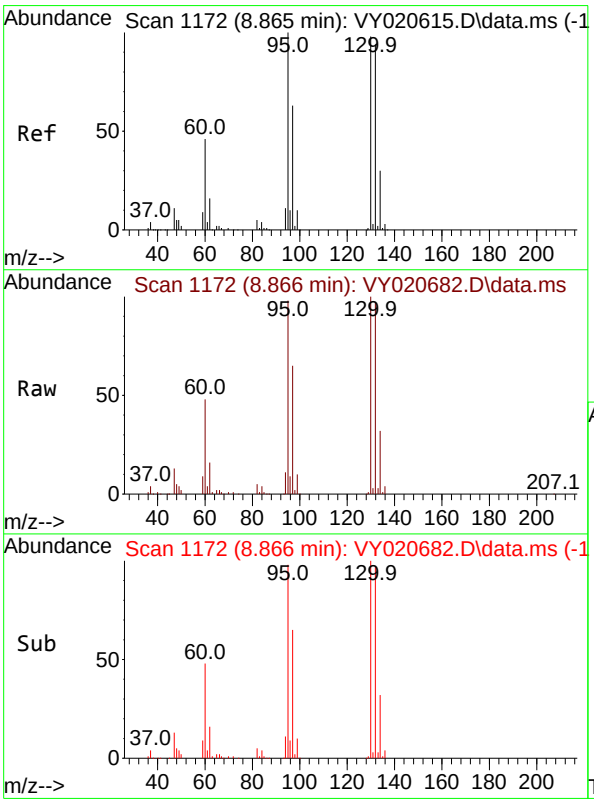

#43
Isopropyl Acetate
Concen: 51.476 ug/l
RT: 8.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 132653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.1 | 23.8 | 35.6# |
| 87 | 13.2 | 10.2 | 15.4 |

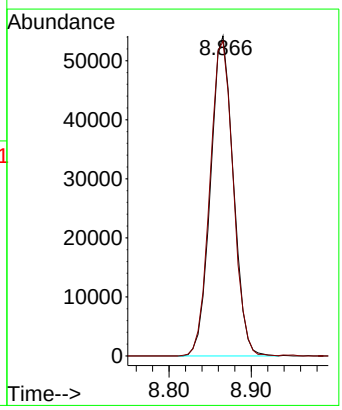


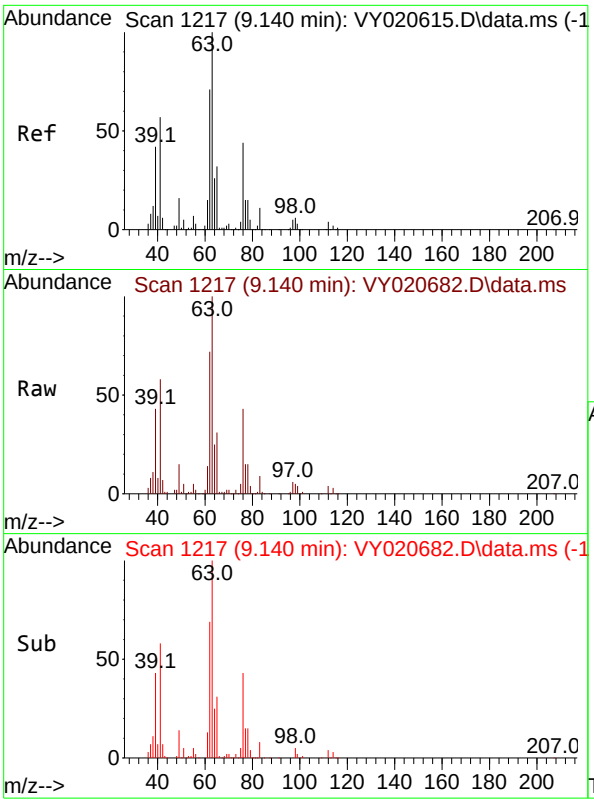




#44
Trichloroethene
Concen: 50.065 ug/l
RT: 8.866 min Scan# 1172
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:130 Resp: 104350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.3 | 0.0 | 203.2 |



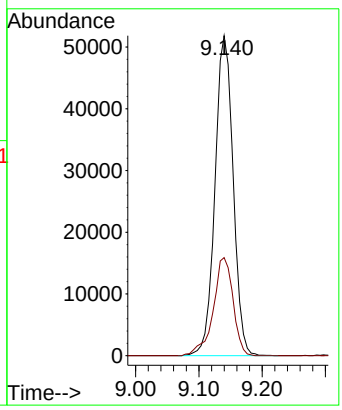


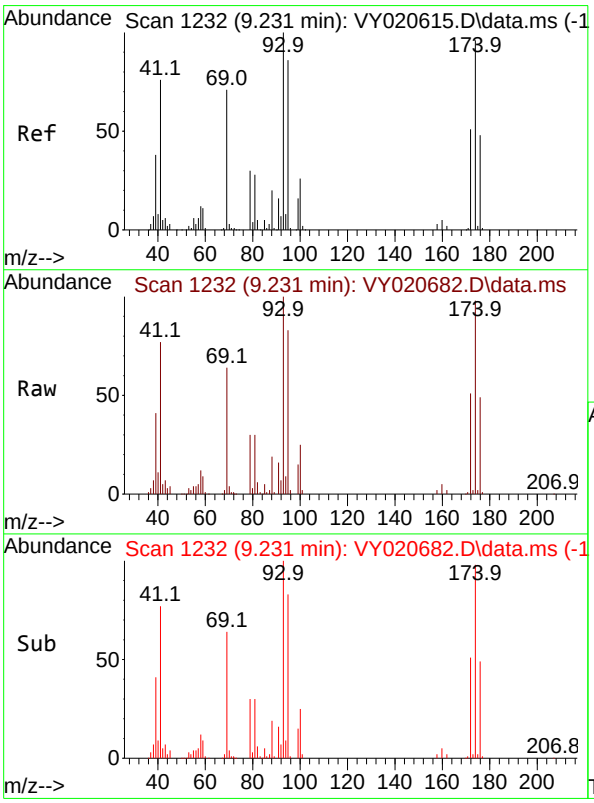

#45
1,2-Dichloropropane
Concen: 51.953 ug/l
RT: 9.140 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 63 Resp: 102993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.7 | 25.9 | 38.9 |

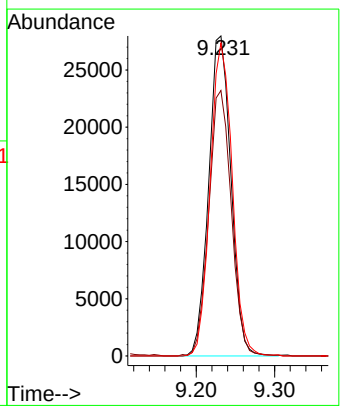


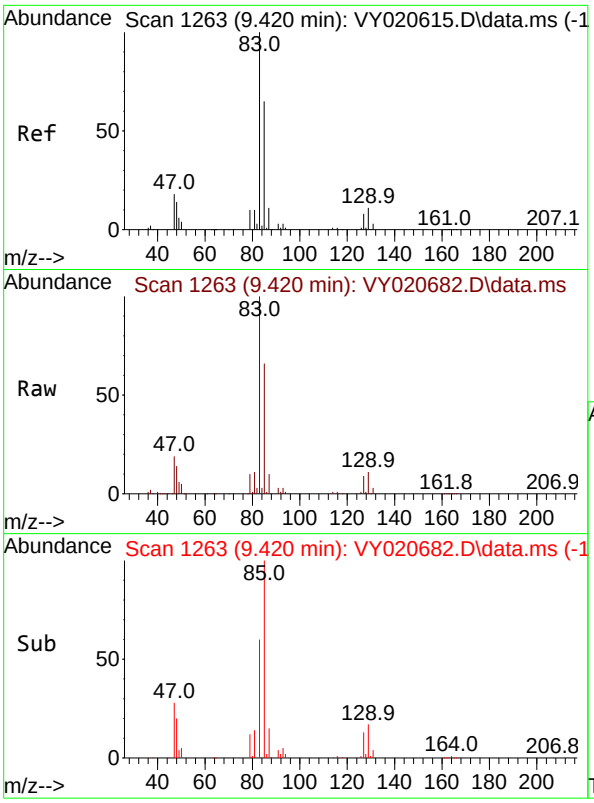




#46
Dibromomethane
Concen: 52.734 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 93 Resp: 55249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.9 | 66.7 | 100.1 |
| 174 | 96.8 | 77.8 | 116.6 |



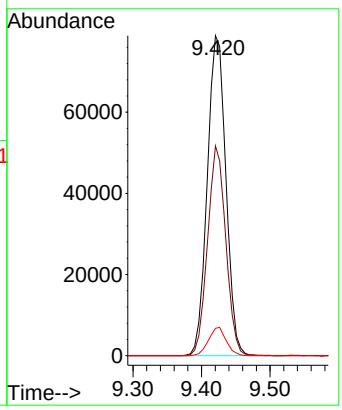


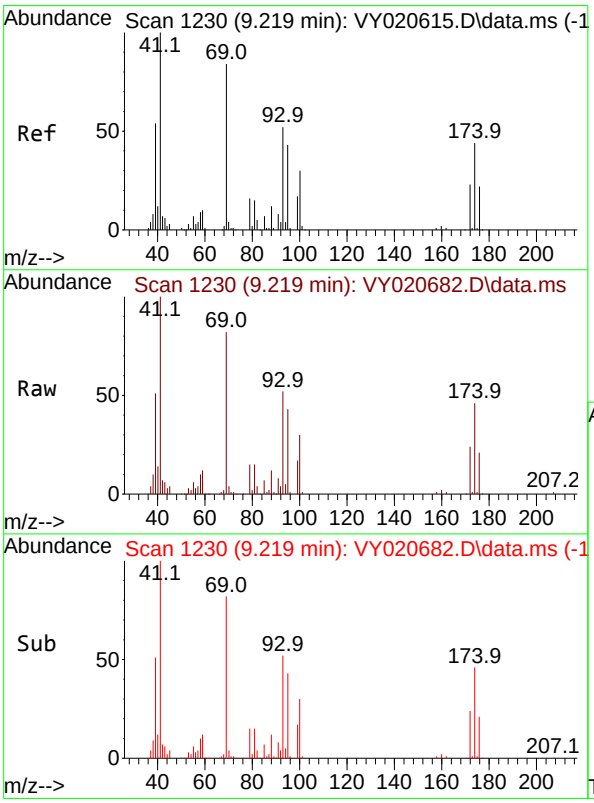

#47
Bromodichloromethane
Concen: 52.643 ug/l
RT: 9.420 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 148983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.6 | 52.1 | 78.1 |
| 127 | 8.5 | 6.7 | 10.1 |

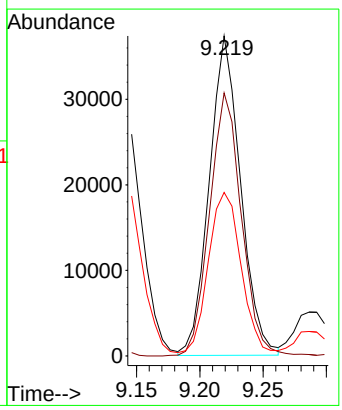


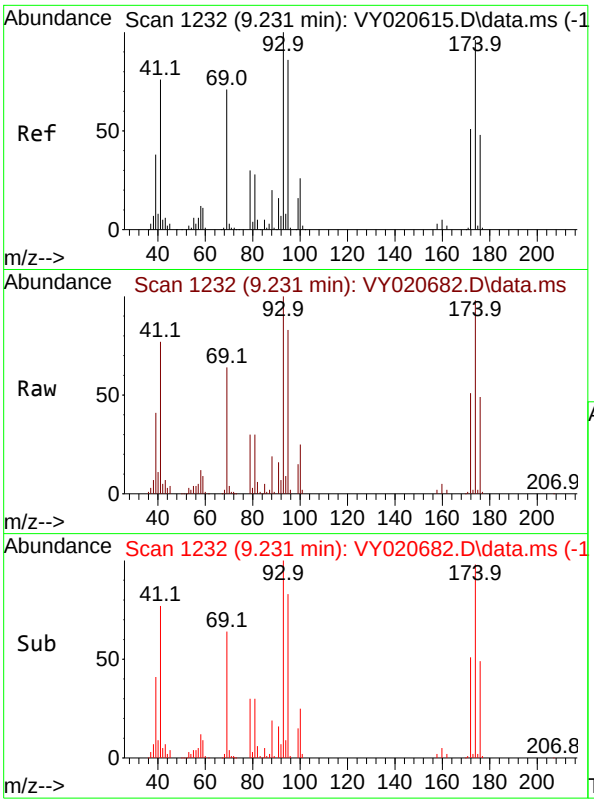




#48
Methyl methacrylate
Concen: 52.516 ug/l
RT: 9.219 min Scan# 1230
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 41 Resp: 64336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.7 | 67.2 | 100.8 |
| 39 | 52.0 | 42.2 | 63.4 |



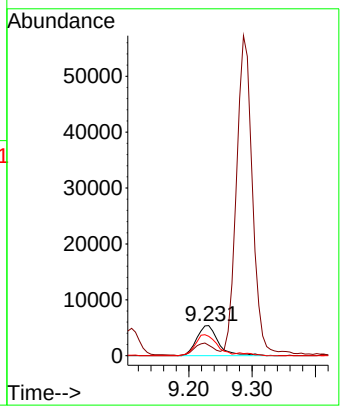


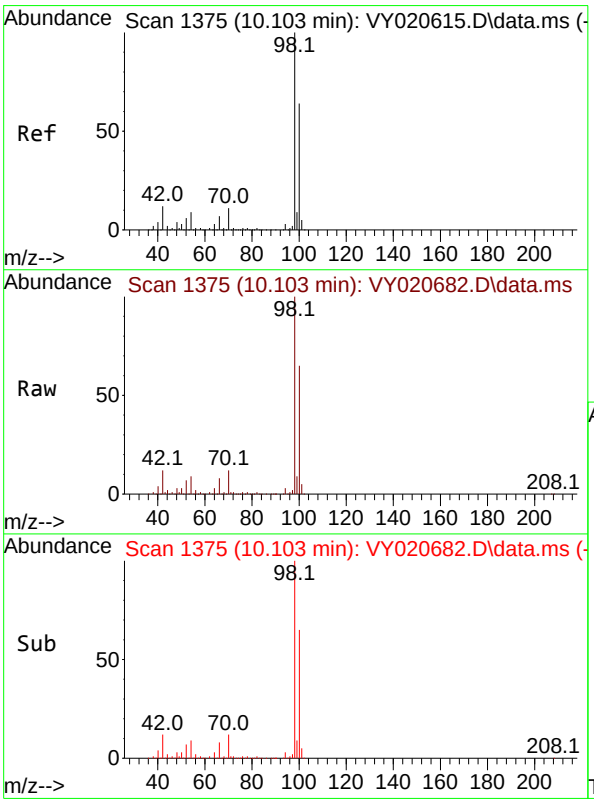

#49
1,4-Dioxane
Concen: 1069.318 ug/l
RT: 9.231 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 88 Resp: 12848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 37.9 | 27.6 | 41.4 |
| 58 | 69.8 | 61.7 | 92.5 |

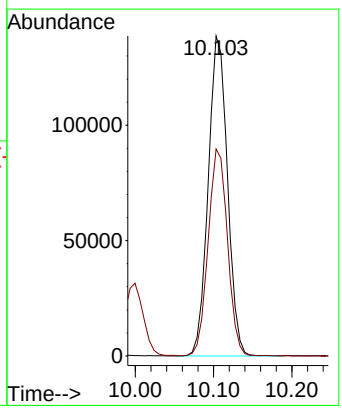


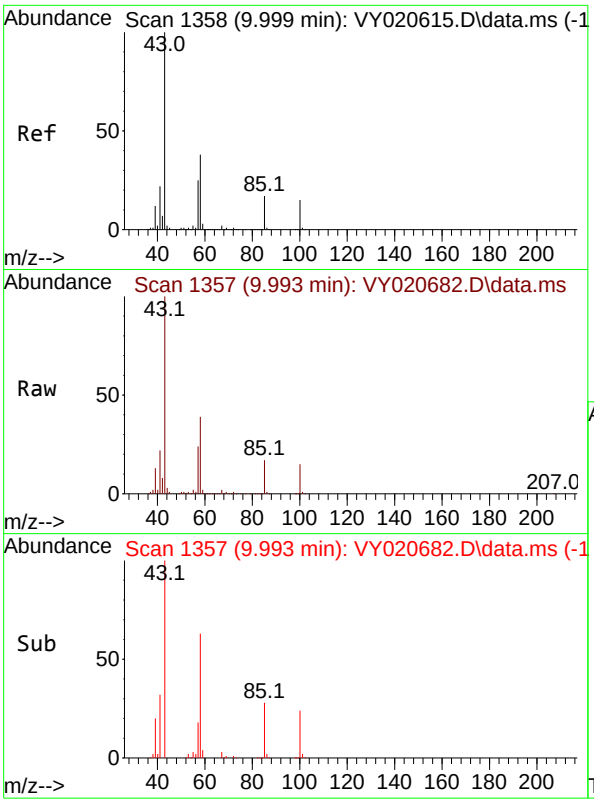




#50
Toluene-d8
Concen: 42.543 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 98 Resp: 236316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 52.1 | 78.1 |



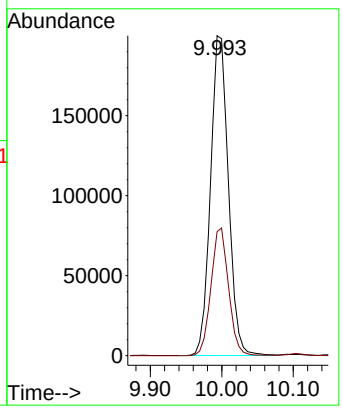


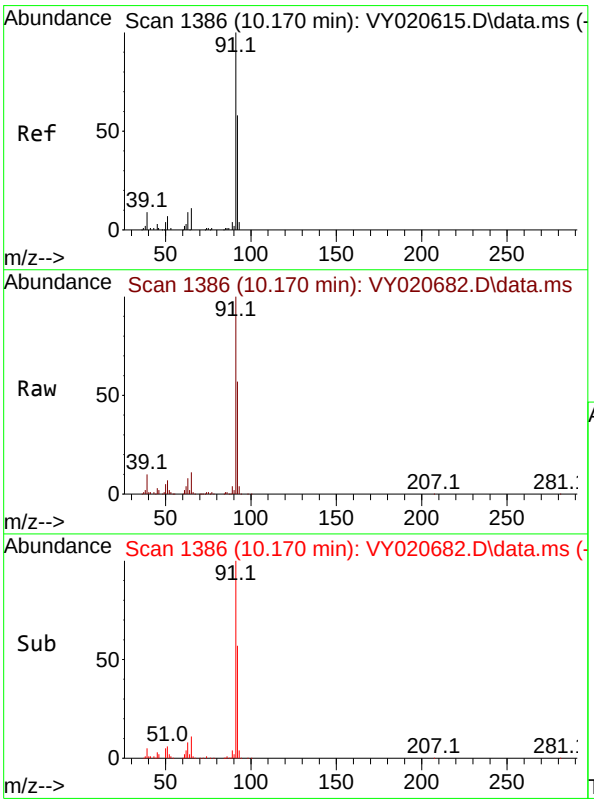

#51
4-Methyl-2-Pentanone
Concen: 255.175 ug/l
RT: 9.993 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 347100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.3 | 31.4 | 47.2 |

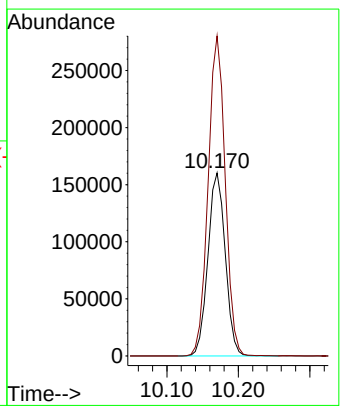


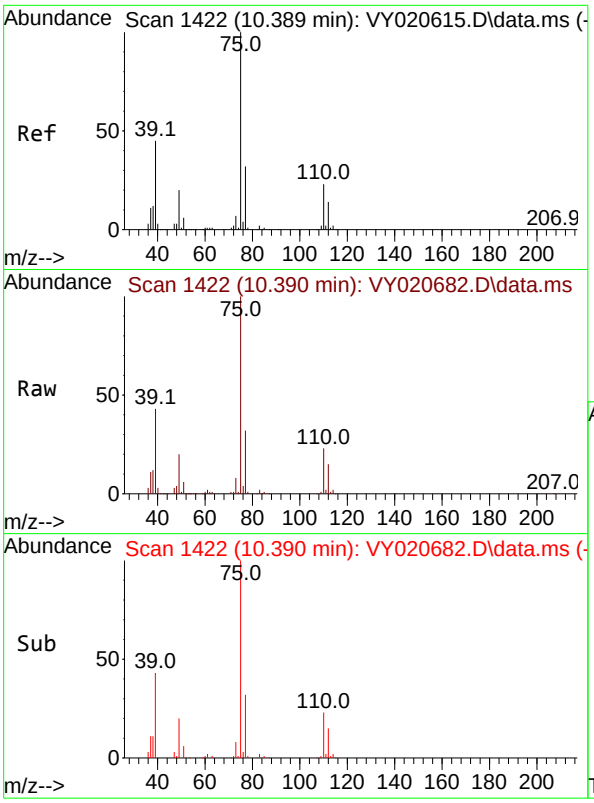




#52
Toluene
Concen: 51.164 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 92 Resp: 269709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.5 | 137.4 | 206.0 |



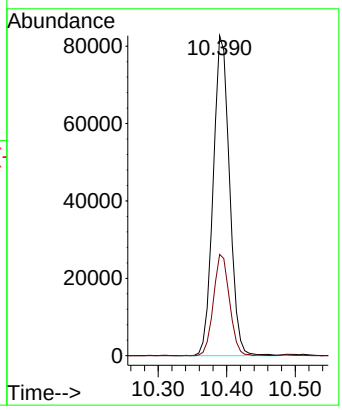


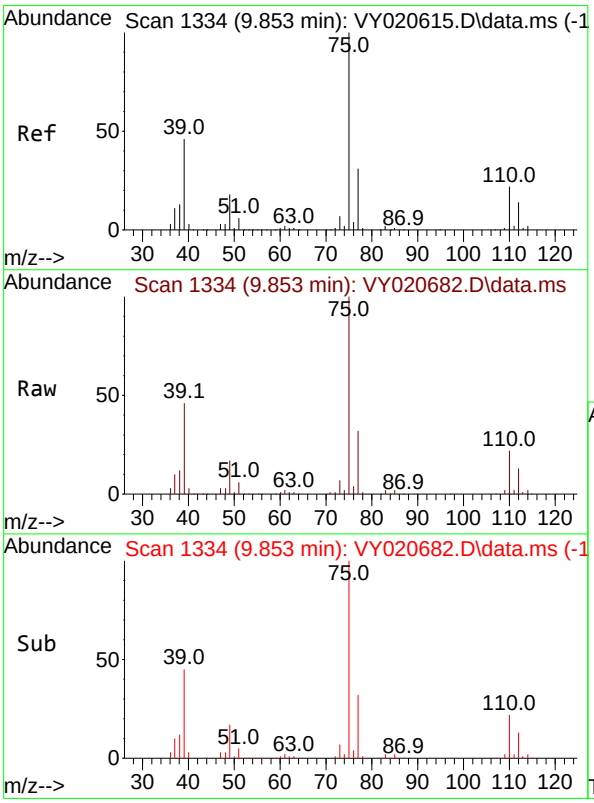

#53
t-1,3-Dichloropropene
Concen: 51.983 ug/l
RT: 10.390 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 137082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.4 | 38.2 |

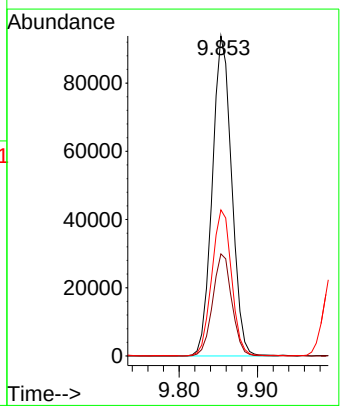


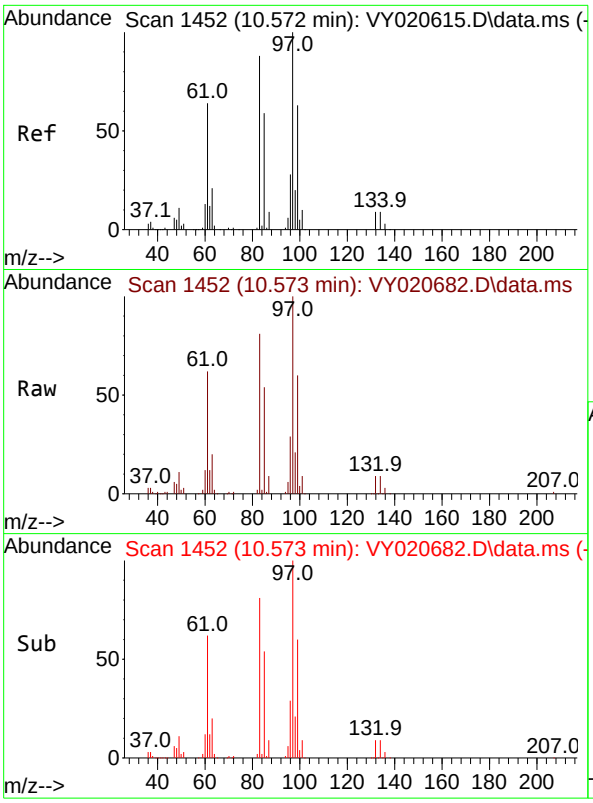




#54
cis-1,3-Dichloropropene
Concen: 51.582 ug/l
RT: 9.853 min Scan# 1334
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 75 Resp: 161185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 24.6 | 36.8 |
| 39 | 45.5 | 36.4 | 54.6 |



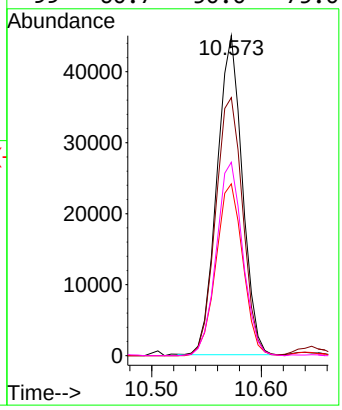


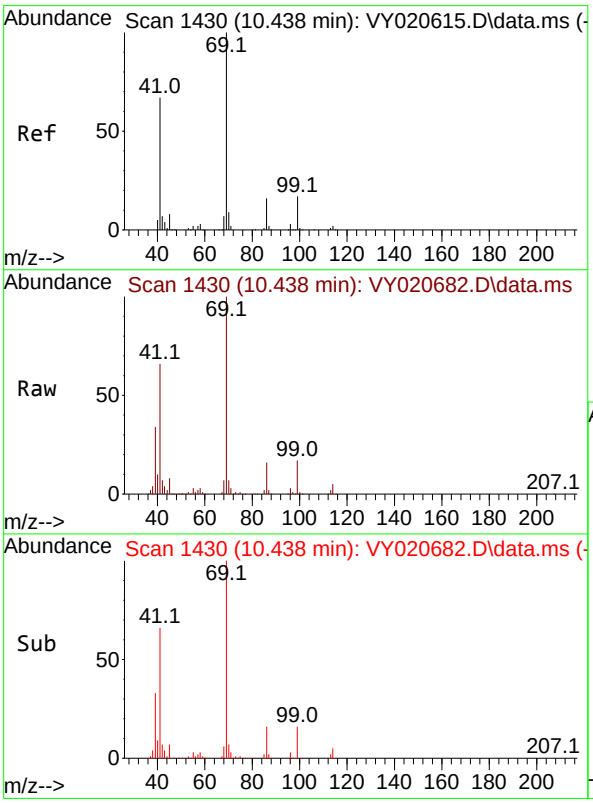

#55
1,1,2-Trichloroethane
Concen: 52.160 ug/l
RT: 10.573 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 97 Resp: 72252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 80.9 | 70.4 | 105.6 |
| 85 | 53.9 | 47.2 | 70.8 |
| 99 | 60.7 | 50.0 | 75.0 |

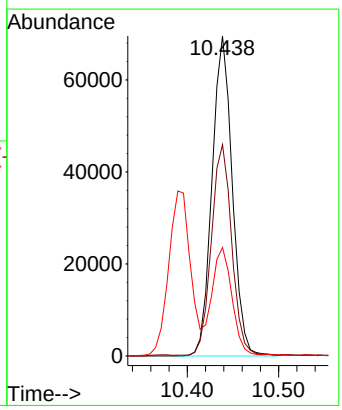


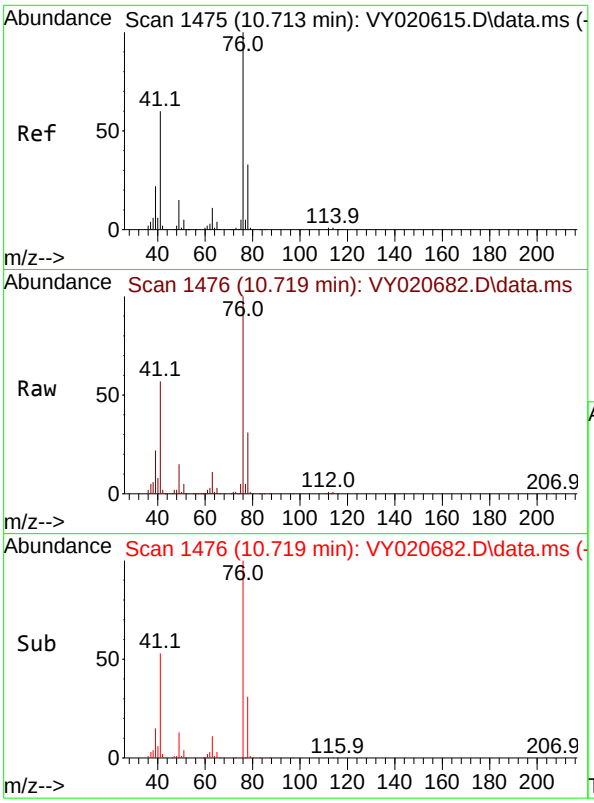




#56
Ethyl methacrylate
Concen: 53.177 ug/l
RT: 10.438 min Scan# 1430
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 69 Resp: 106862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.9 | 54.0 | 81.0 |
| 39 | 34.4 | 27.9 | 41.9 |



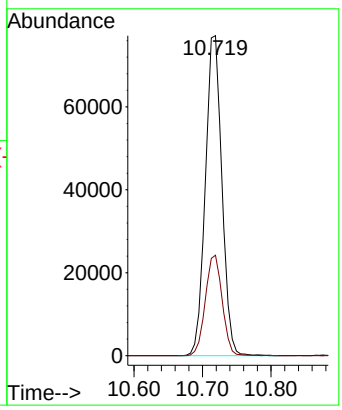


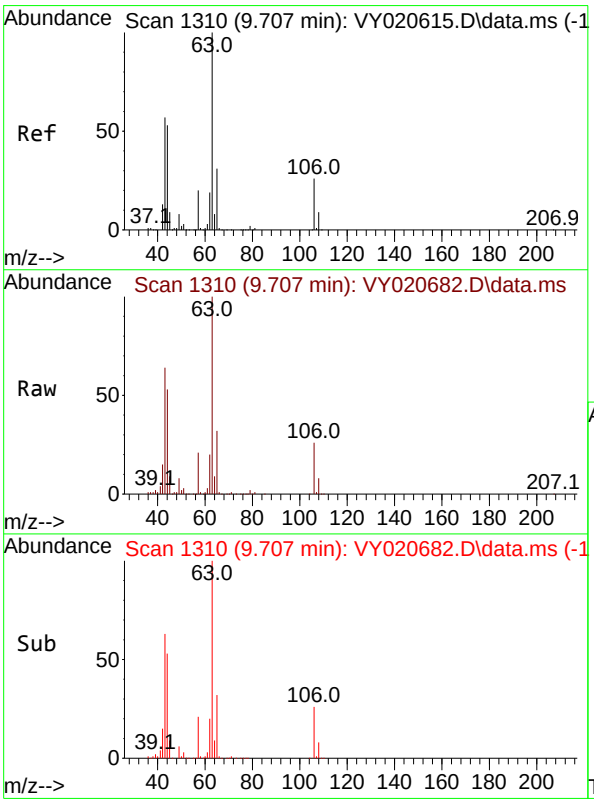

#57
1,3-Dichloropropane
Concen: 52.533 ug/l
RT: 10.719 min Scan# 14
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 129720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 25.8 | 38.8 |

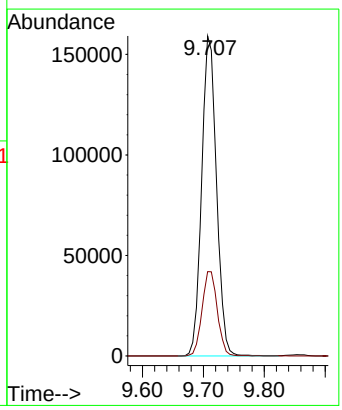


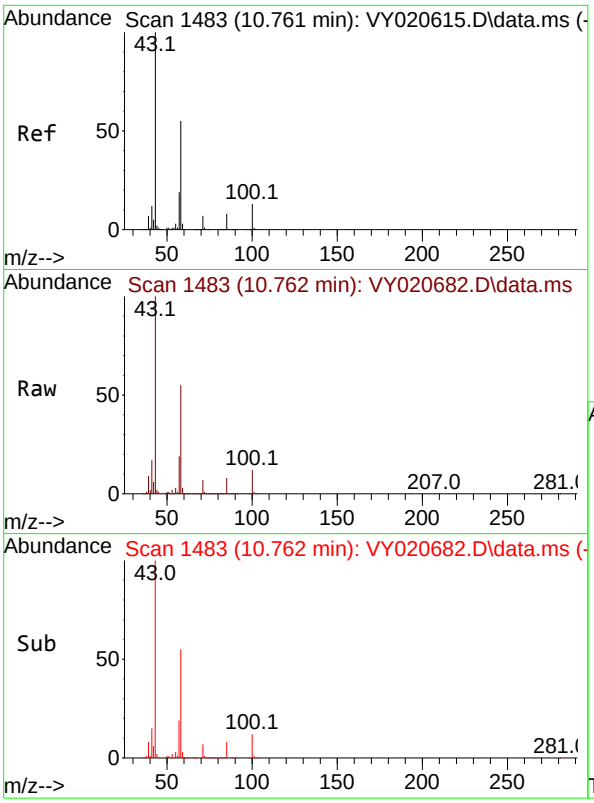




#58
2-Chloroethyl Vinyl ether
Concen: 318.460 ug/l
RT: 9.707 min Scan# 1310
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 63 Resp: 269274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.1 | 21.5 | 32.3 |



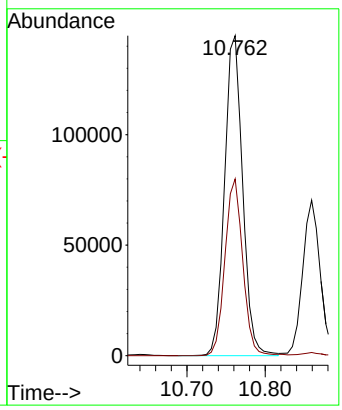


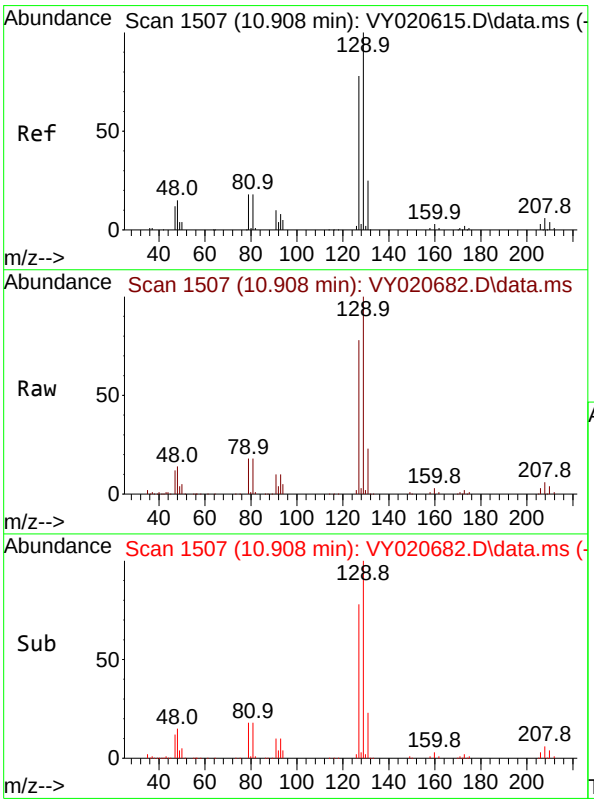

#59
2-Hexanone
Concen: 266.163 ug/l
RT: 10.762 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 232450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.6 | 27.2 | 81.6 |

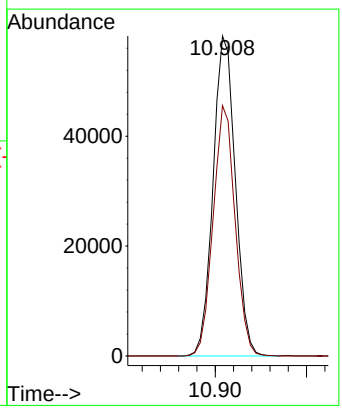


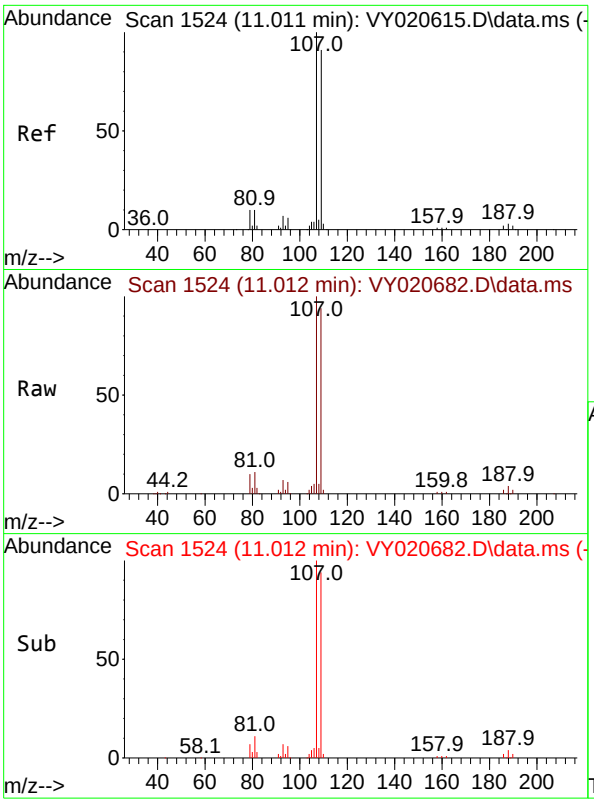




#60
Dibromochloromethane
Concen: 53.204 ug/l
RT: 10.908 min Scan# 1507
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:129 Resp: 98561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.2 | 38.1 | 114.3 |



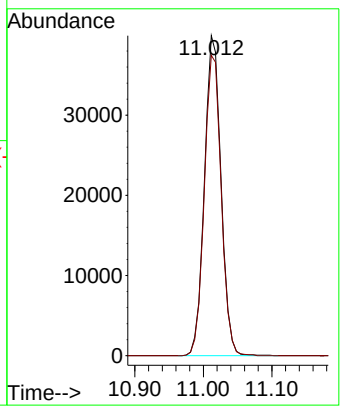


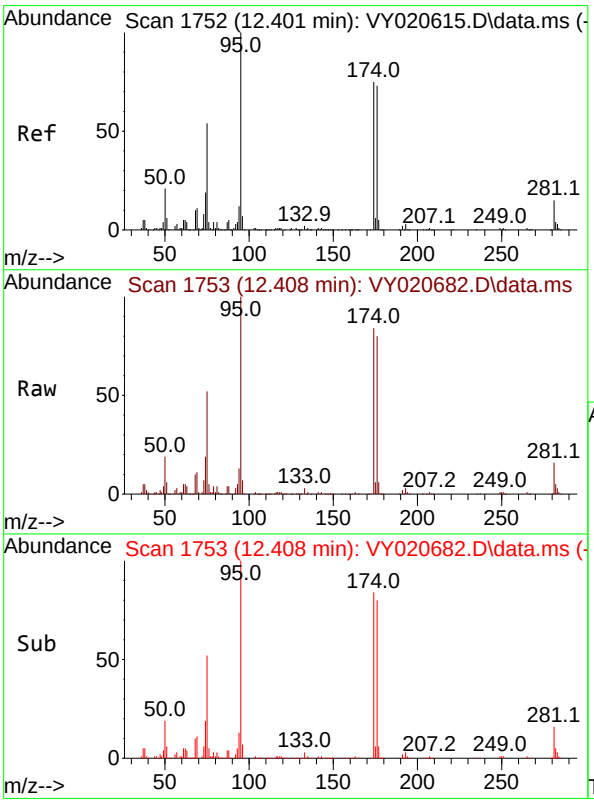

#61
1,2-Dibromoethane
Concen: 52.208 ug/l
RT: 11.012 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:107 Resp: 67268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 95.7 | 75.4 | 113.2 |

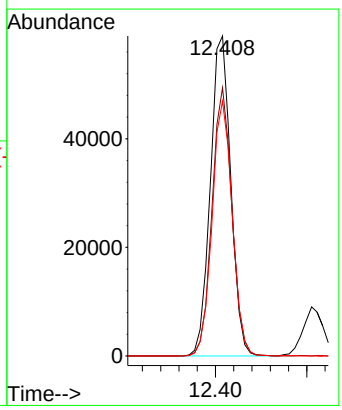


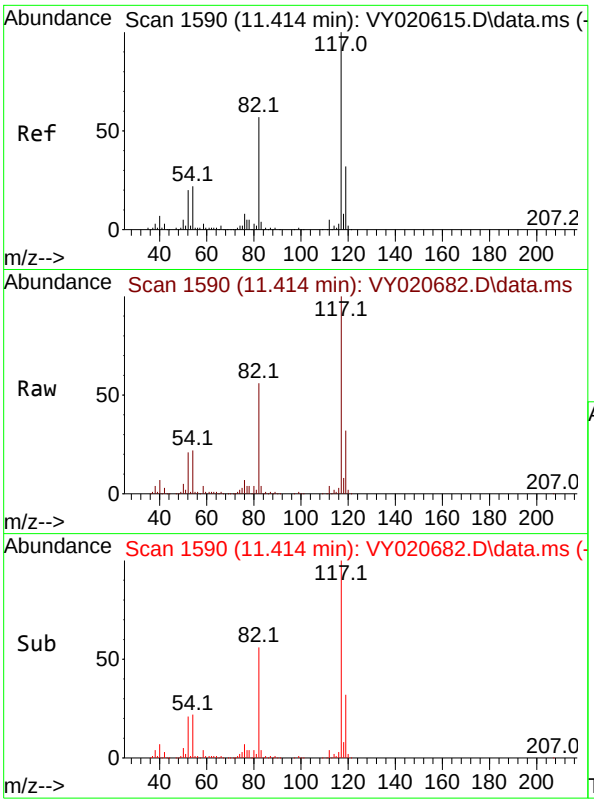




#62
4-Bromofluorobenzene
Concen: 42.042 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 95 Resp: 91351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 81.6 | 0.0 | 161.8 |
| 176 | 78.8 | 0.0 | 156.6 |



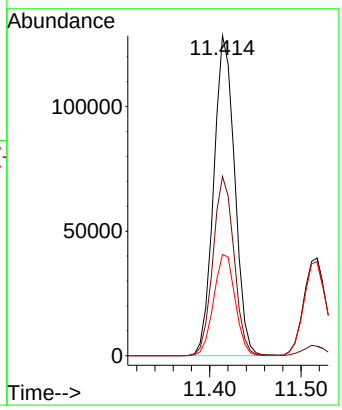


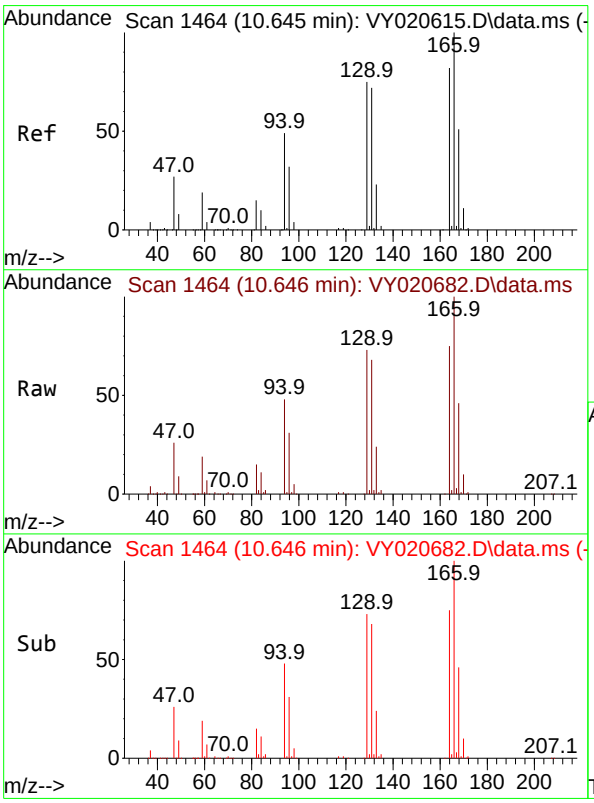

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:117 Resp: 204671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 56.0 | 45.8 | 68.6 |
| 119 | 31.6 | 25.3 | 37.9 |

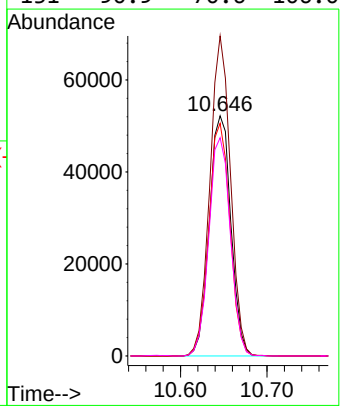


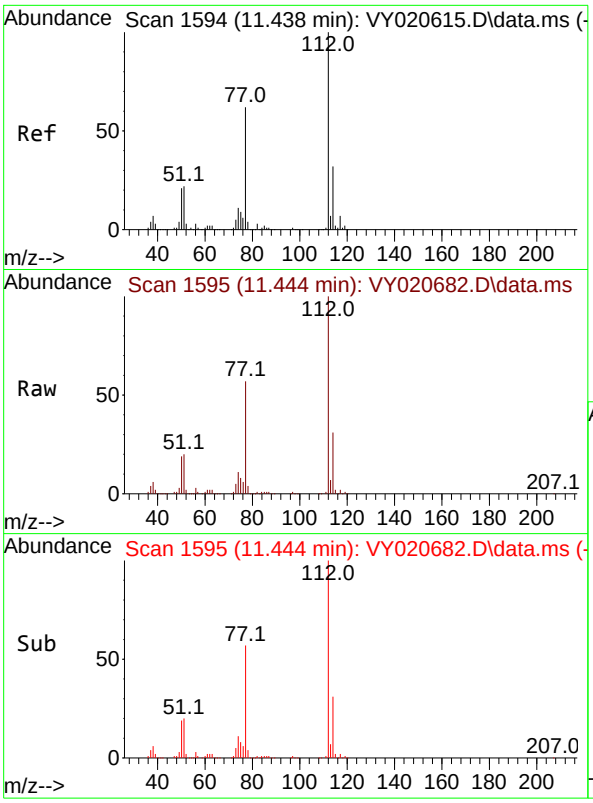




#64
Tetrachloroethene
Concen: 47.125 ug/l
RT: 10.646 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:164 Resp: 90723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 133.3 | 97.9 | 146.9 |
| 129 | 96.9 | 73.4 | 110.0 |
| 131 | 90.9 | 70.6 | 106.0 |



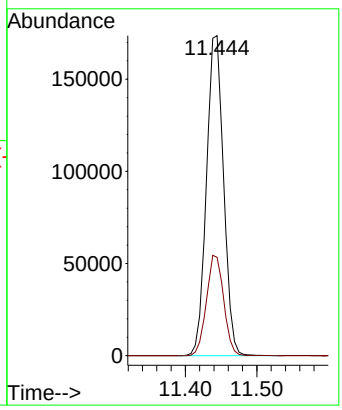


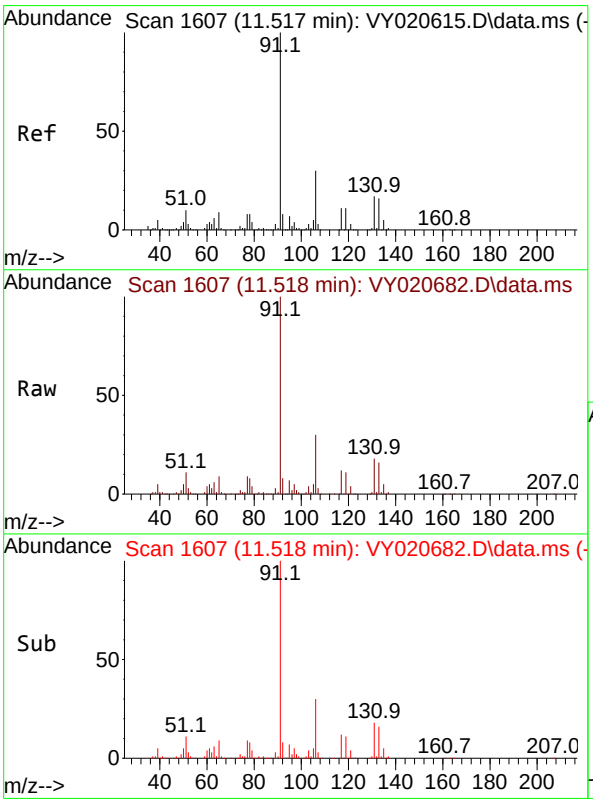

#65
Chlorobenzene
Concen: 50.396 ug/l
RT: 11.444 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:112 Resp: 288406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 30.7 | 26.0 | 39.0 |

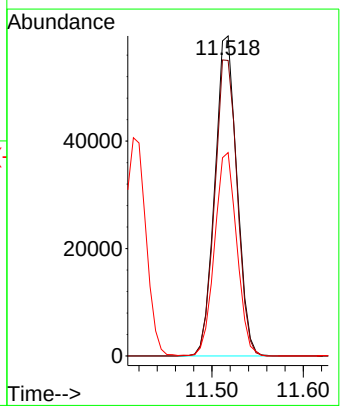


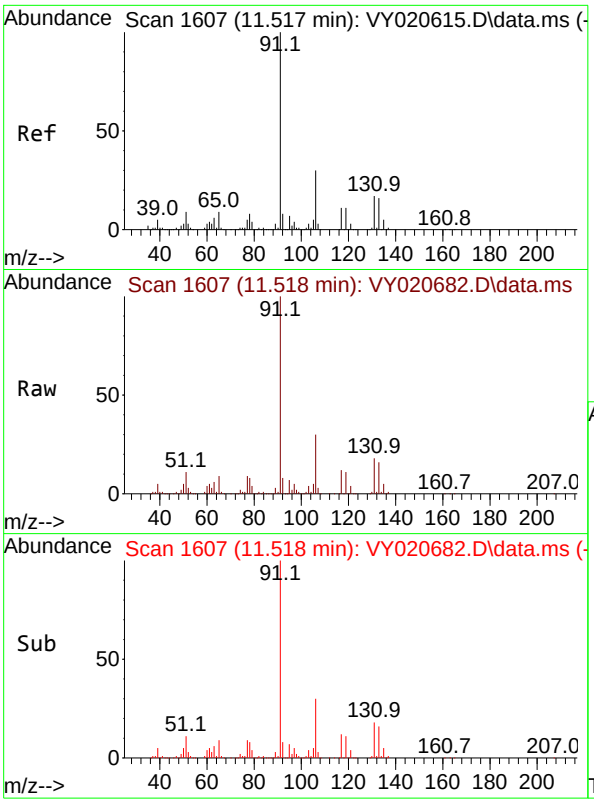




#66
1,1,1,2-Tetrachloroethane
Concen: 51.120 ug/l
RT: 11.518 min Scan# 1607
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:131 Resp: 100036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.5 | 46.8 | 140.3 |
| 119 | 64.0 | 31.8 | 95.3 |



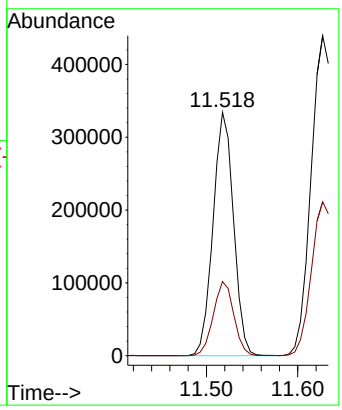


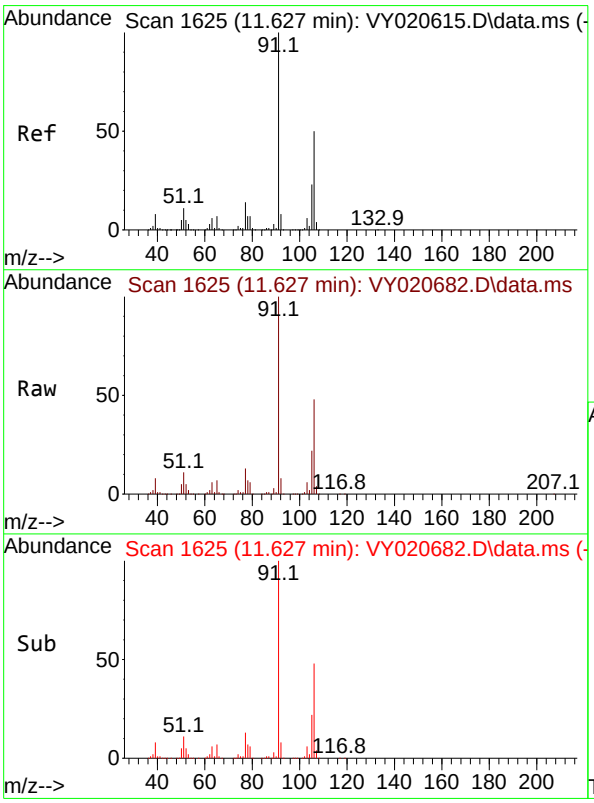

#67
Ethyl Benzene
Concen: 49.283 ug/l
RT: 11.518 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 520329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 23.9 | 35.9 |

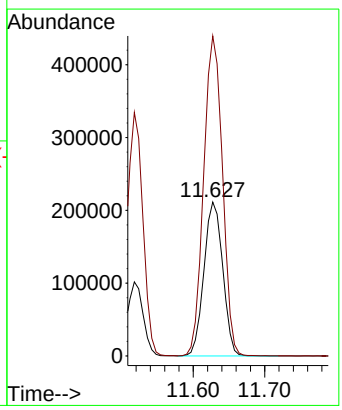


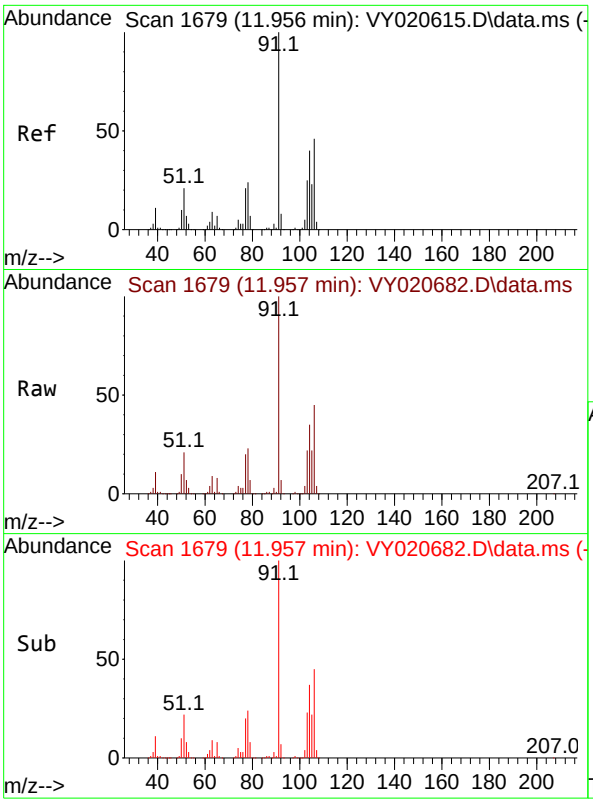




#68
m/p-Xylenes
Concen: 98.385 ug/l
RT: 11.627 min Scan# 1625
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:106 Resp: 386215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.9 | 165.0 | 247.4 |



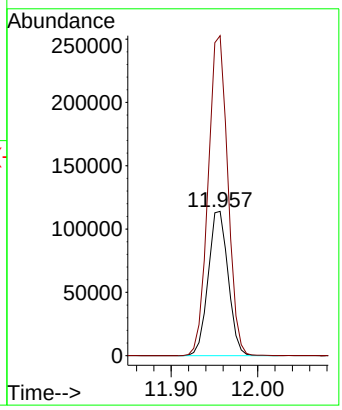


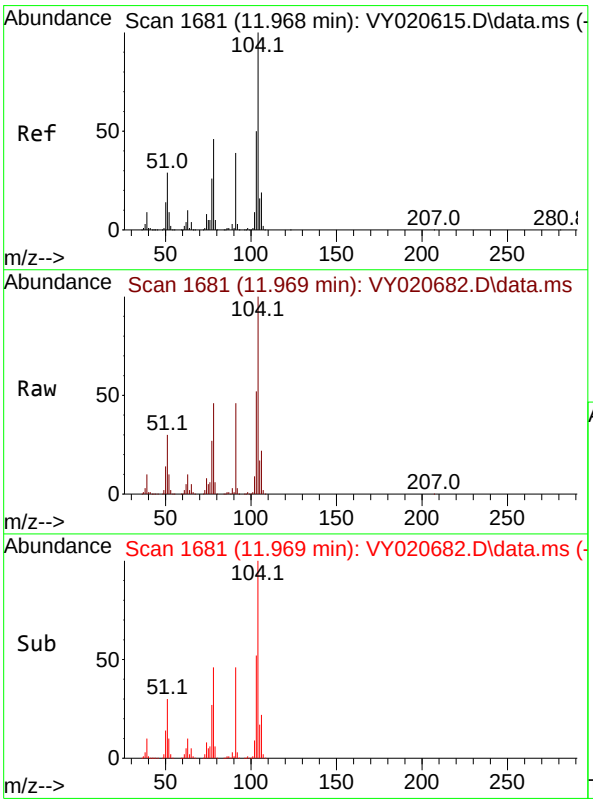

#69
o-Xylene
Concen: 49.791 ug/l
RT: 11.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:106 Resp: 182369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.7 | 108.4 | 325.2 |

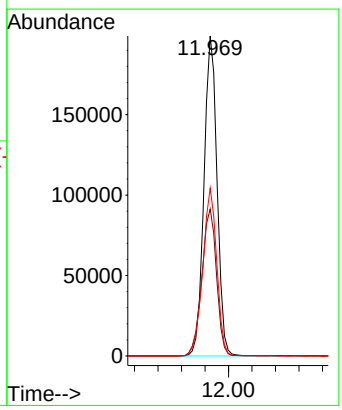


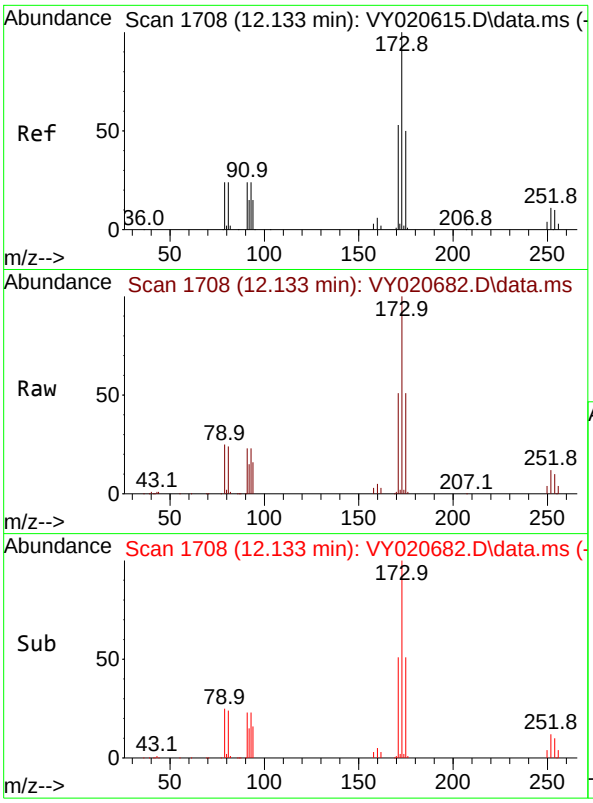




#70
Styrene
Concen: 50.345 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:104 Resp: 308084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.4 | 41.6 | 62.4 |
| 103 | 56.1 | 43.7 | 65.5 |



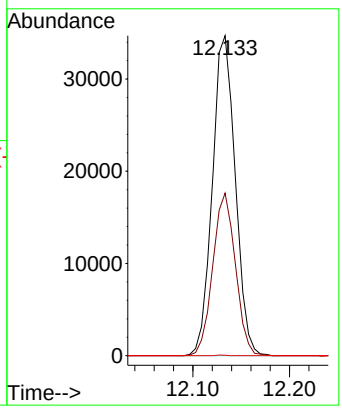


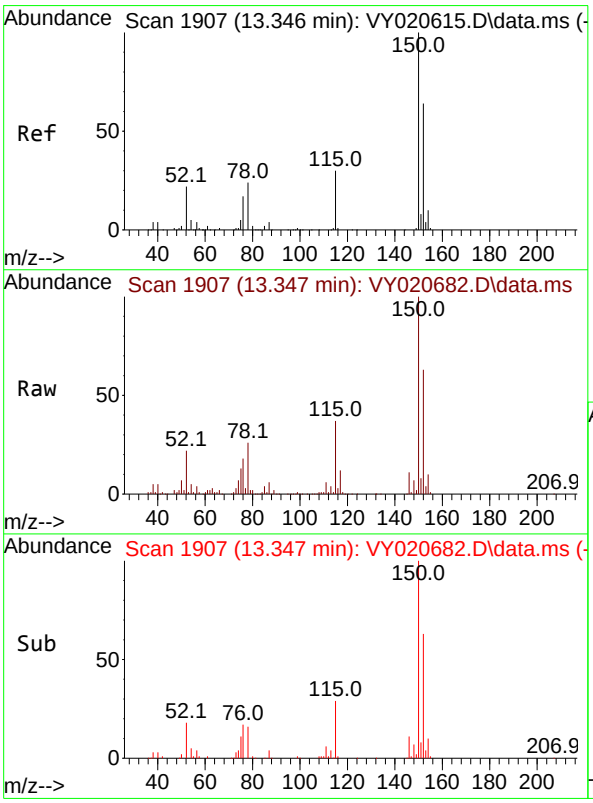

#71
Bromoform
Concen: 51.813 ug/l
RT: 12.133 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:173 Resp: 57006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 50.2 | 24.6 | 74.0 |
| 254 | 0.1 | 0.0 | 0.0# |

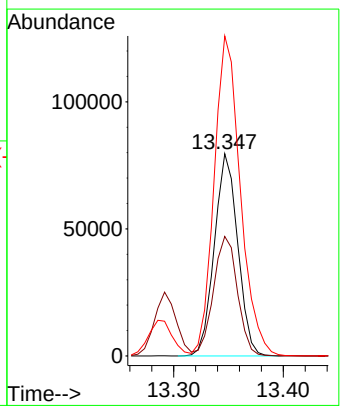


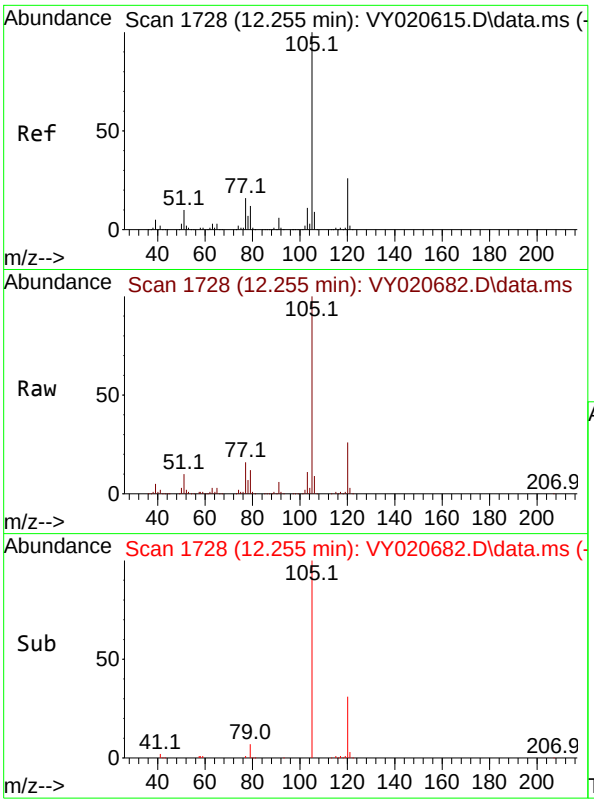




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.347 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:152 Resp: 118027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 60.7 | 30.2 | 90.6 |
| 150 | 177.6 | 0.0 | 355.4 |



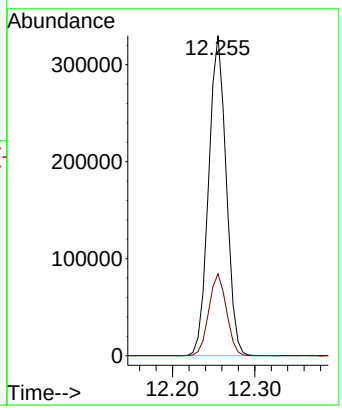


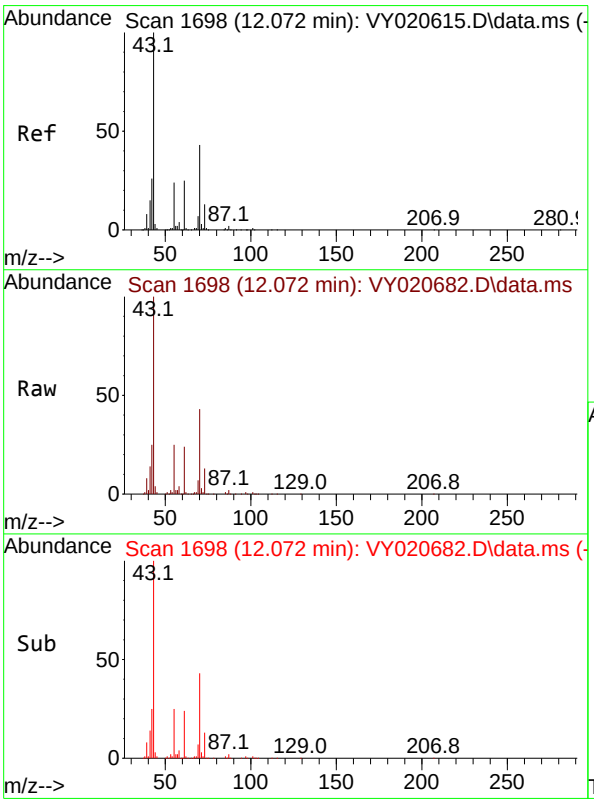

#73
Isopropylbenzene
Concen: 47.402 ug/l
RT: 12.255 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 488221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.6 | 13.1 | 39.1 |

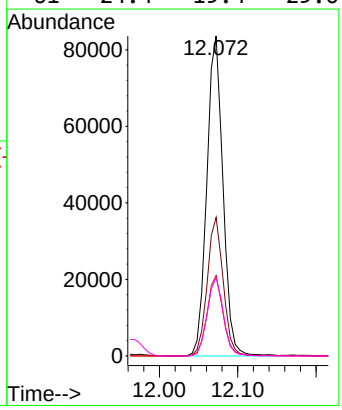


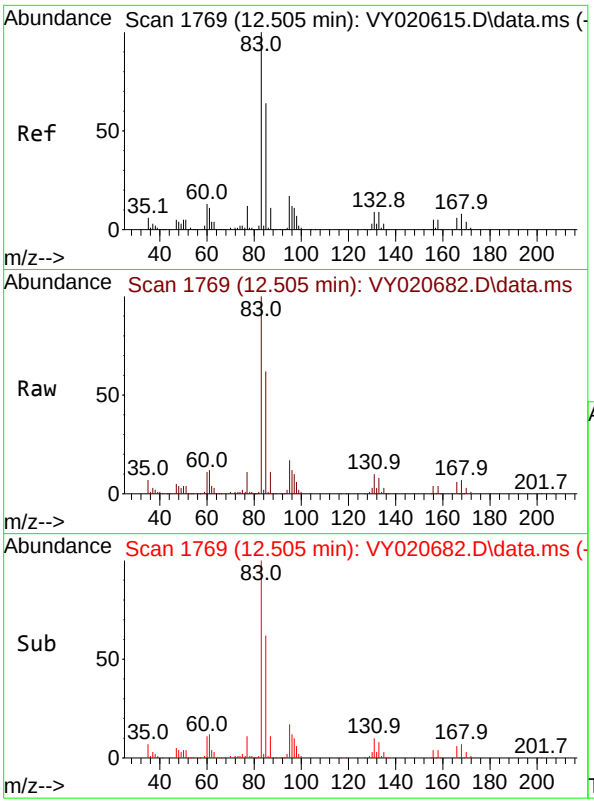




#74
N-amyl acetate
Concen: 49.676 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 43 Resp: 119742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.1 | 34.2 | 51.2 |
| 55 | 25.0 | 19.6 | 29.4 |
| 61 | 24.4 | 19.4 | 29.0 |



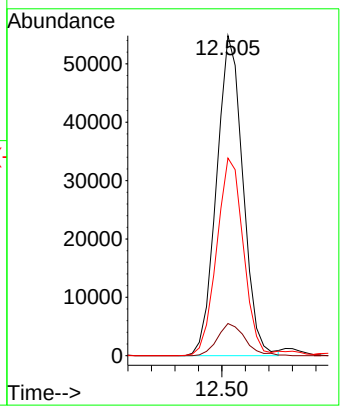


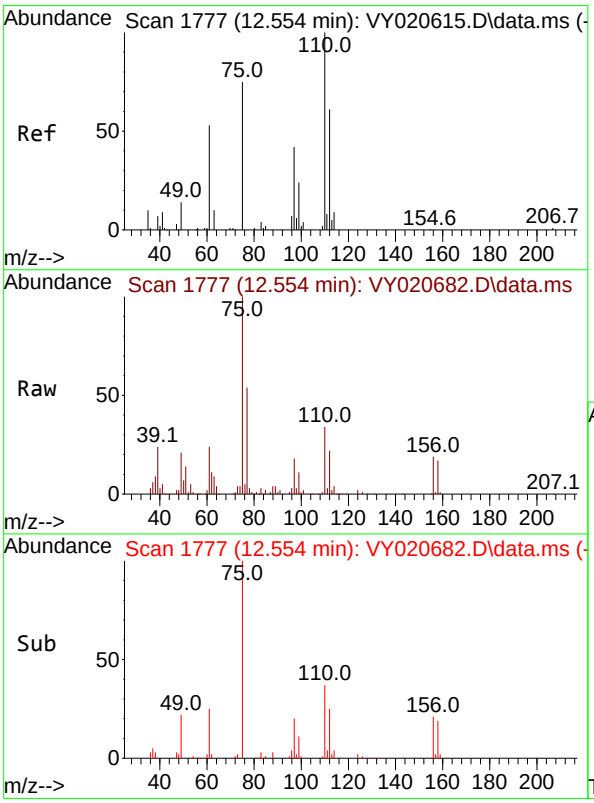

#75
1,1,2,2-Tetrachloroethane
Concen: 51.155 ug/l
RT: 12.505 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 85524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.5 | 5.2 | 15.6 |
| 85 | 62.4 | 32.5 | 97.4 |

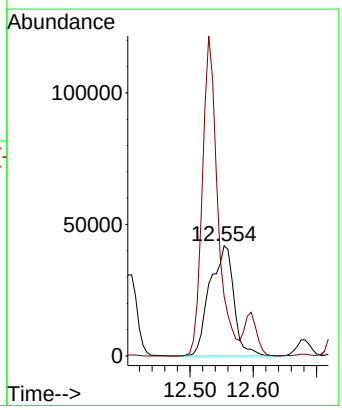


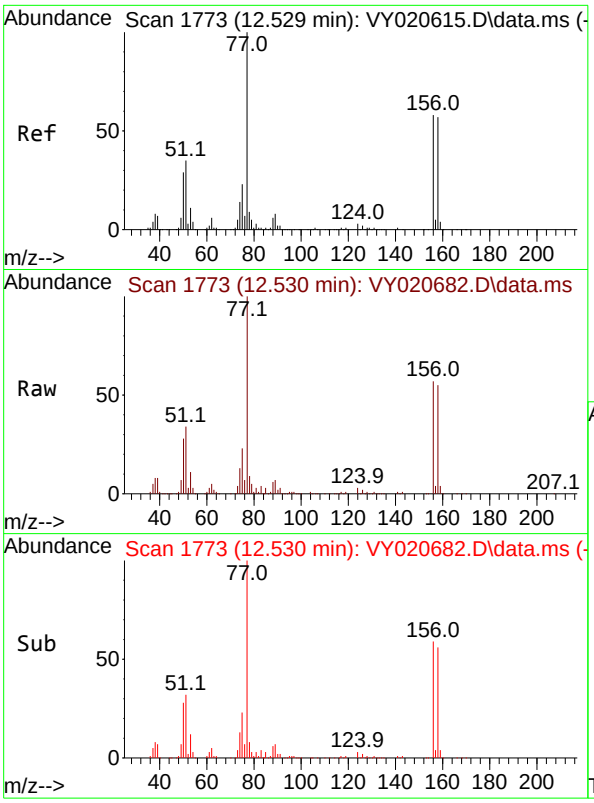




#76
1,2,3-Trichloropropane
Concen: 89.947 ug/l
RT: 12.554 min Scan# 1777
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 75 Resp: 110281

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



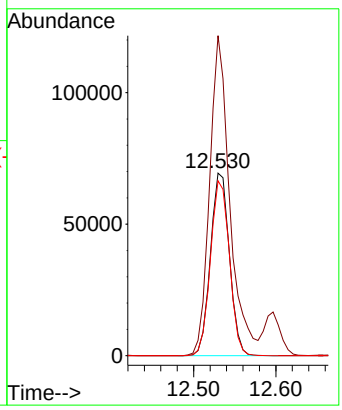


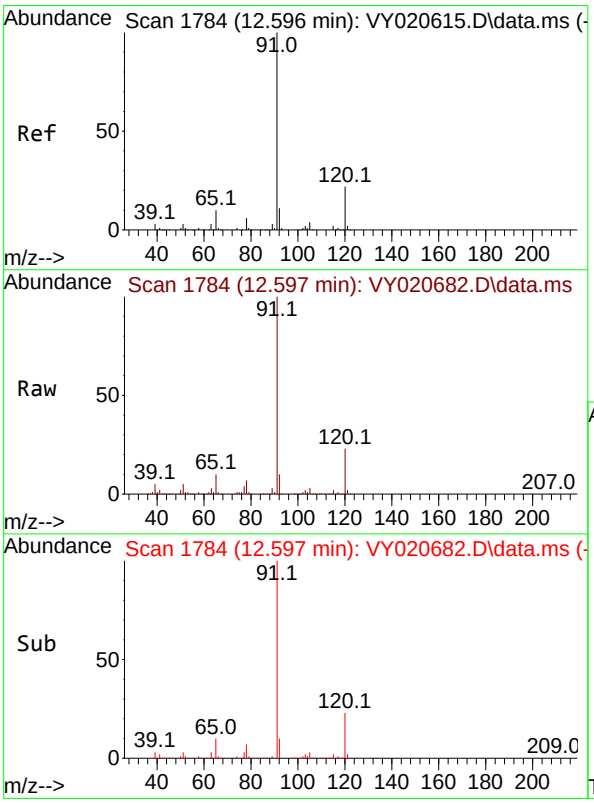

#77
Bromobenzene
Concen: 49.582 ug/l
RT: 12.530 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:156 Resp: 111242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 186.5 | 94.2 | 282.4 |
| 158 | 95.9 | 48.9 | 146.6 |

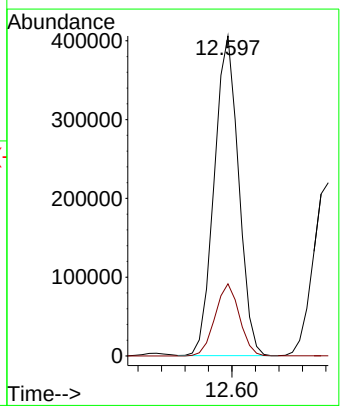


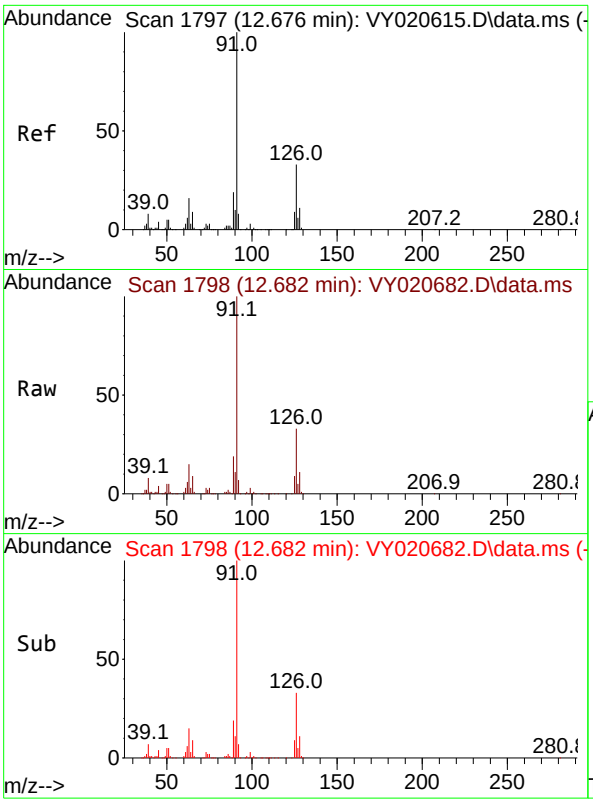




#78
n-propylbenzene
Concen: 47.158 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 91 Resp: 585185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.1 | 33.1 |



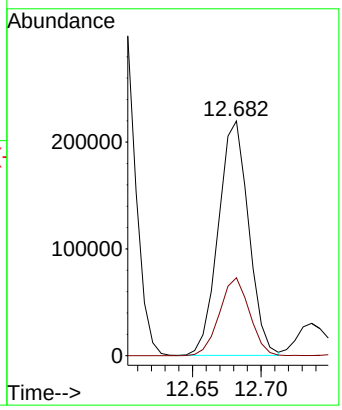


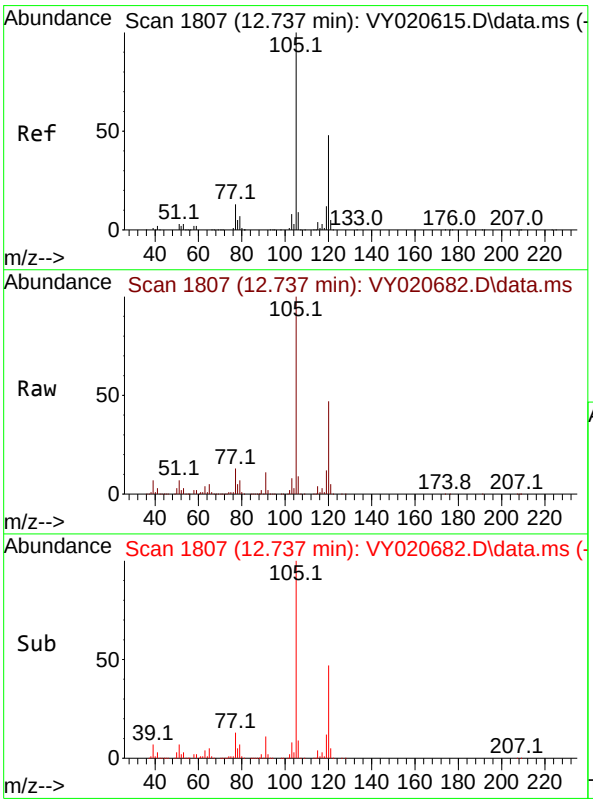

#79
2-Chlorotoluene
Concen: 48.298 ug/l
RT: 12.682 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 337195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.0 | 16.6 | 49.7 |

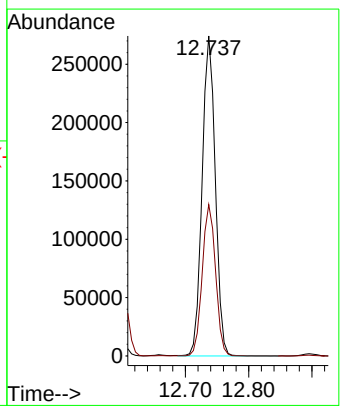


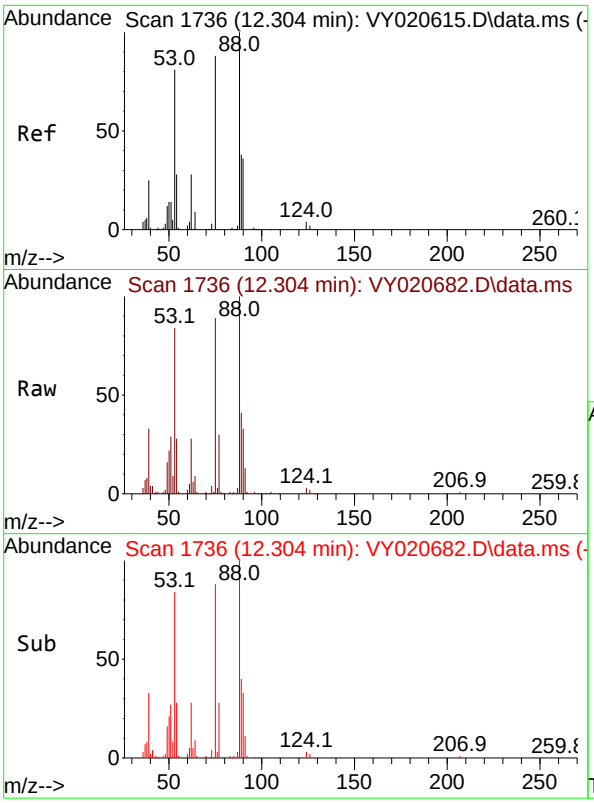




#80
1,3,5-Trimethylbenzene
Concen: 47.693 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:105 Resp: 398582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.8 | 23.9 | 71.7 |



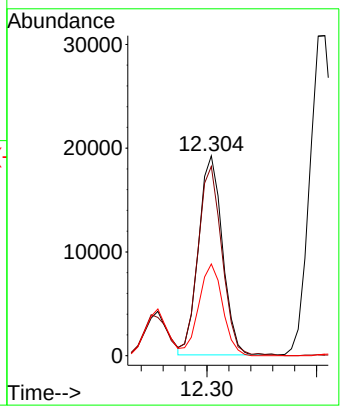


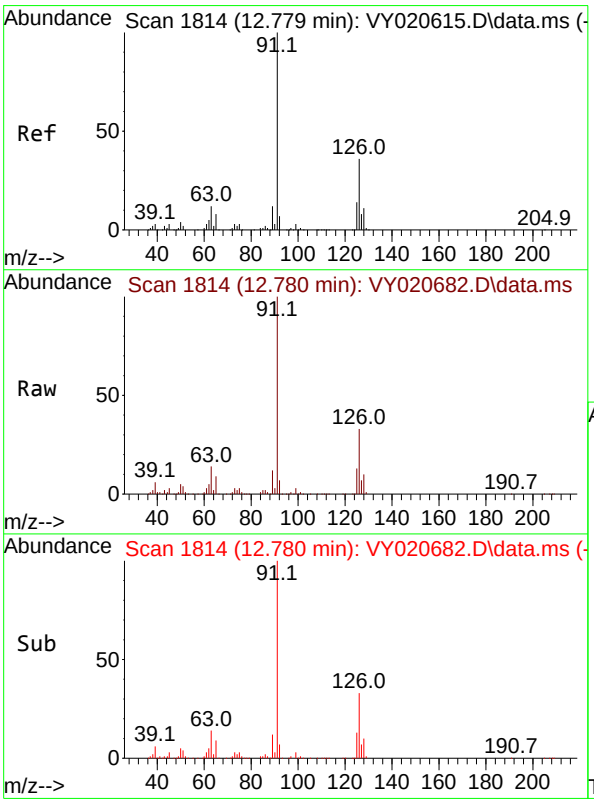

#81
trans-1,4-Dichloro-2-butene
Concen: 49.831 ug/l
RT: 12.304 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 29107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 96.0 | 75.4 | 113.2 |
| 89 | 46.3 | 37.0 | 55.4 |

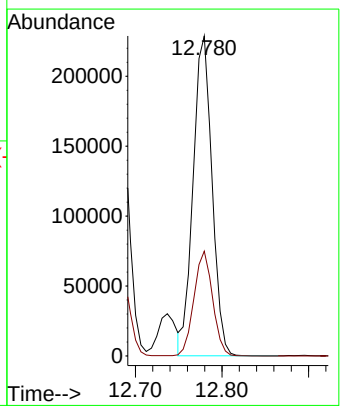


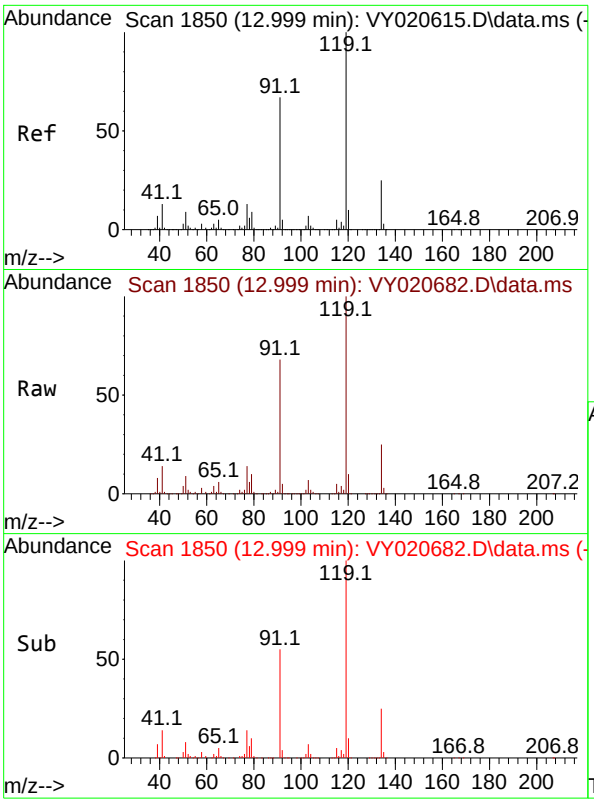




#82
4-Chlorotoluene
Concen: 47.838 ug/l
RT: 12.780 min Scan# 1814
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 91 Resp: 346496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.4 | 16.6 | 49.7 |



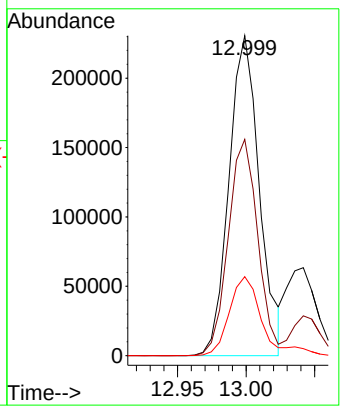


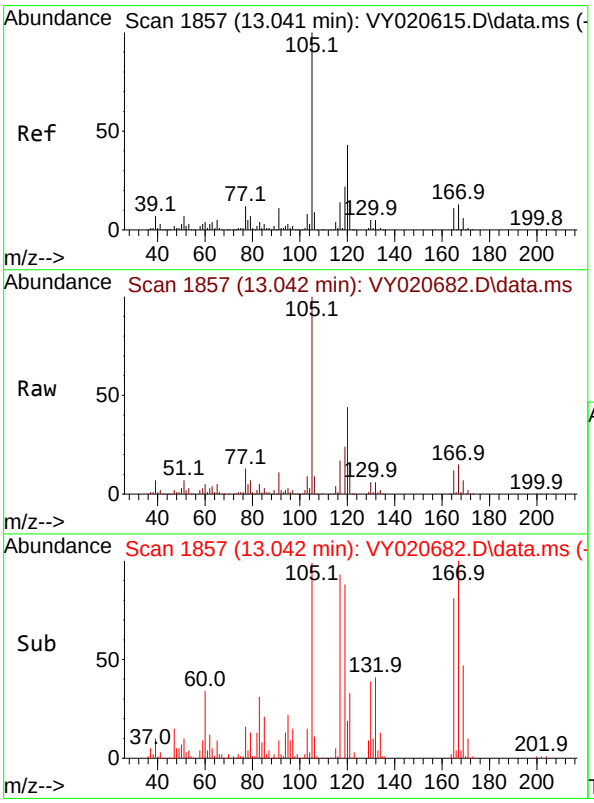

#83
tert-Butylbenzene
Concen: 47.095 ug/l
RT: 12.999 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:119 Resp: 356447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.4 | 32.9 | 98.6 |
| 134 | 26.6 | 13.1 | 39.1 |

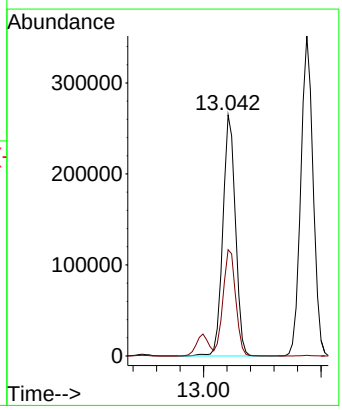


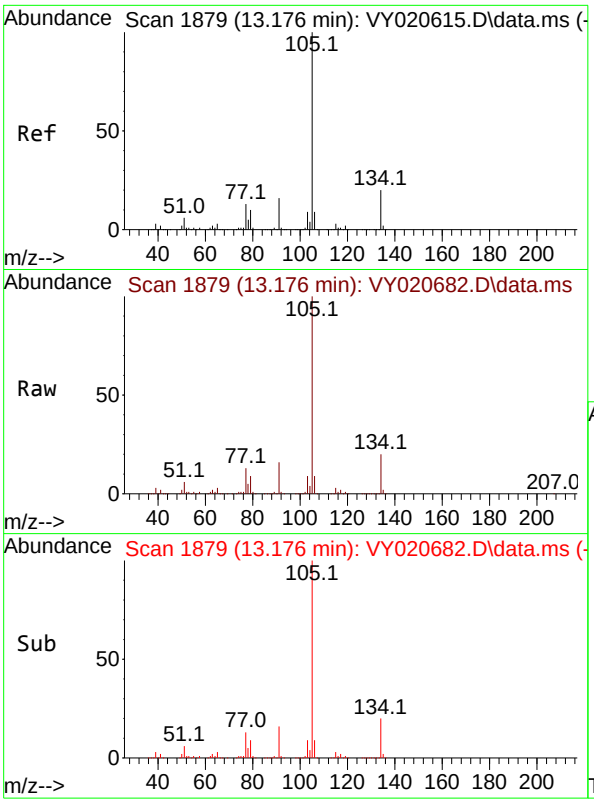




#84
1,2,4-Trimethylbenzene
Concen: 48.012 ug/l
RT: 13.042 min Scan# 1857
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:105 Resp: 393582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.1 | 21.8 | 65.4 |



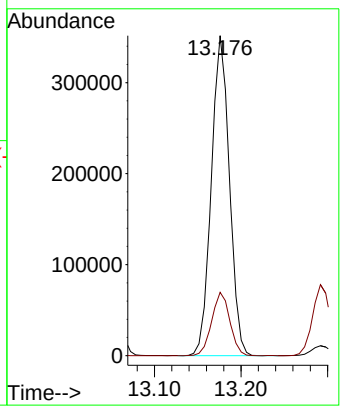


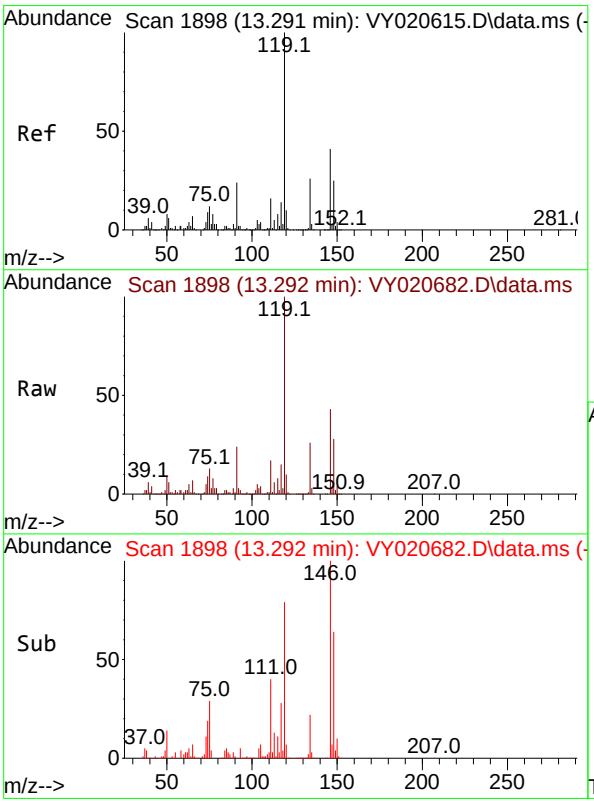

#85
sec-Butylbenzene
Concen: 46.404 ug/l
RT: 13.176 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 510662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 10.0 | 30.0 |

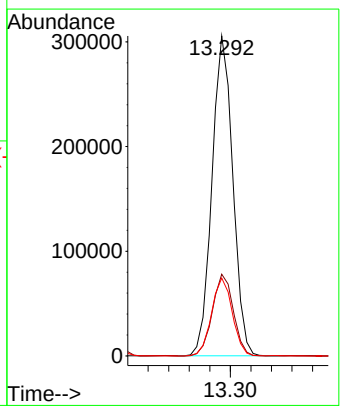


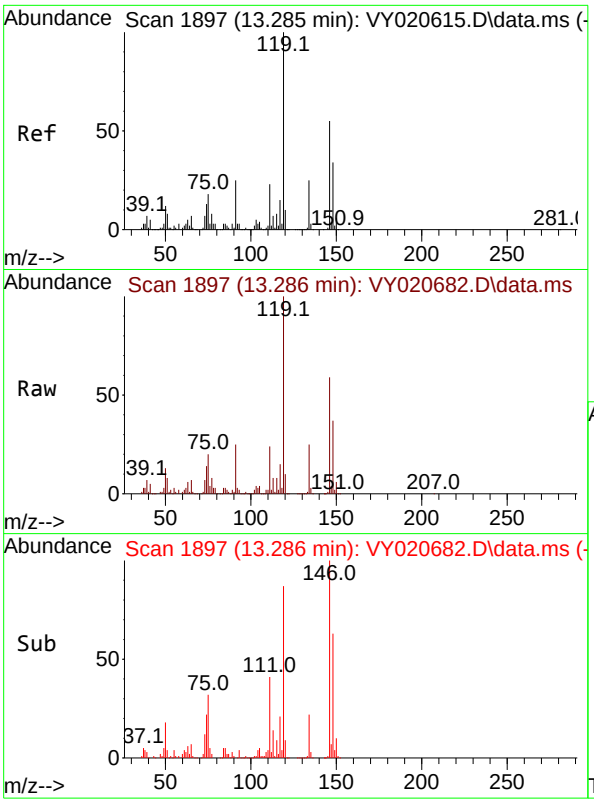




#86
p-Isopropyltoluene
Concen: 47.333 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:119 Resp: 429462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.9 | 38.6 |
| 91 | 24.1 | 12.1 | 36.3 |



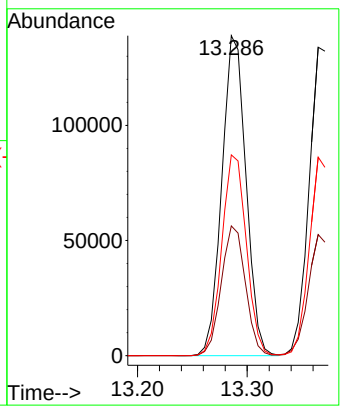


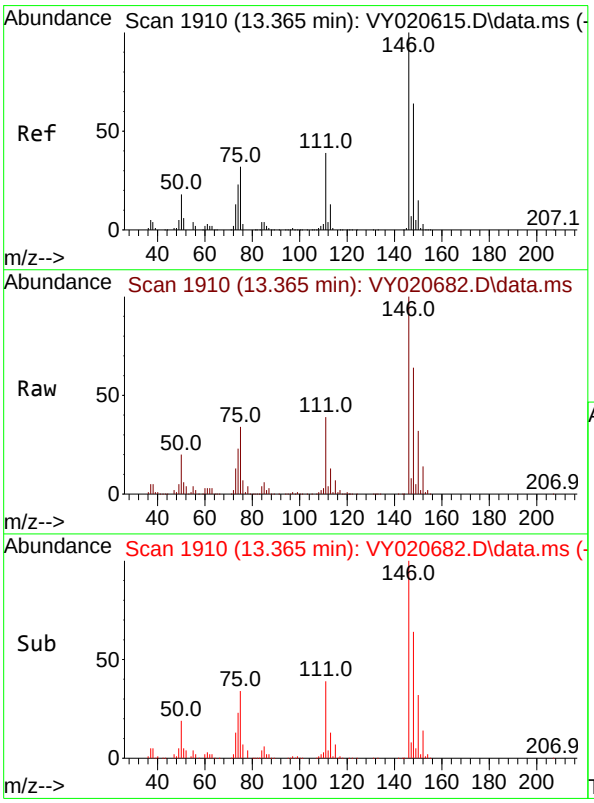

#87
1,3-Dichlorobenzene
Concen: 48.040 ug/l
RT: 13.286 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 212764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 20.6 | 61.8 |
| 148 | 63.8 | 31.4 | 94.0 |

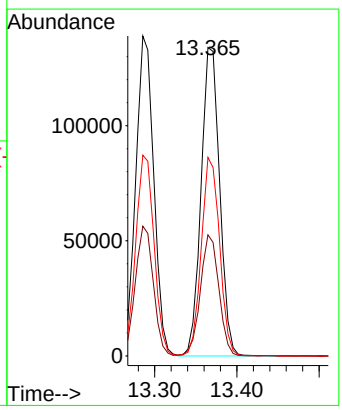


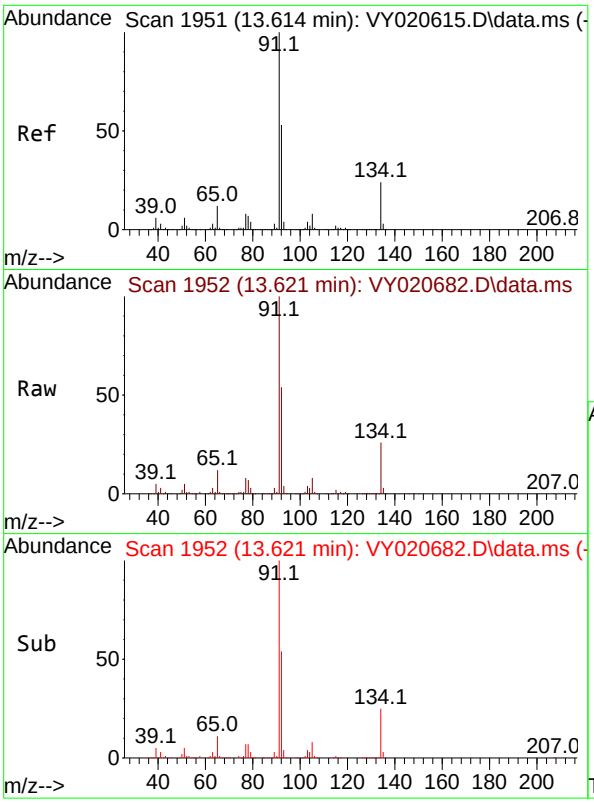




#88
1,4-Dichlorobenzene
Concen: 47.998 ug/l
RT: 13.365 min Scan# 1910
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:146 Resp: 210538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.0 | 19.6 | 58.7 |
| 148 | 63.3 | 31.9 | 95.5 |



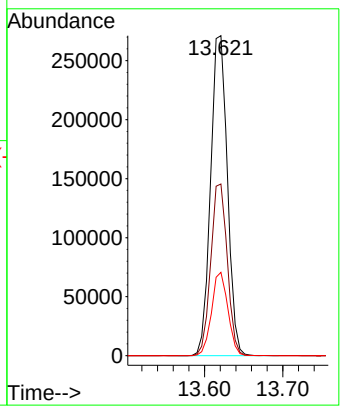


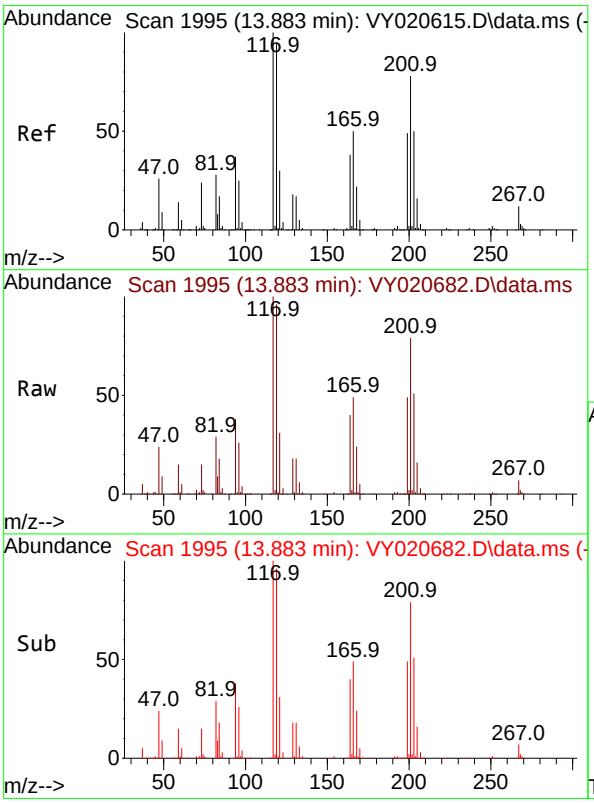

#89
n-Butylbenzene
Concen: 46.895 ug/l
RT: 13.621 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 403246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.9 | 26.8 | 80.4 |
| 134 | 25.4 | 12.5 | 37.5 |

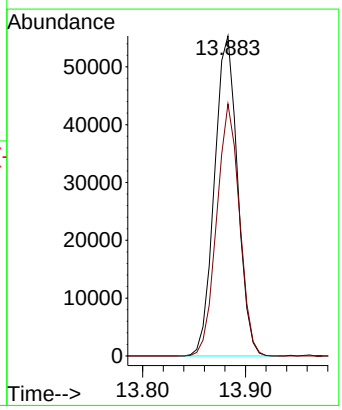


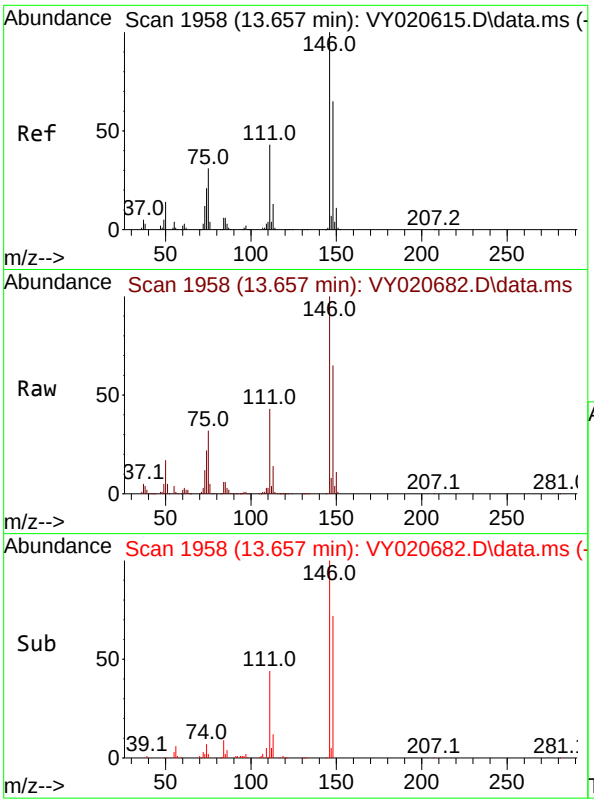




#90
Hexachloroethane
Concen: 47.992 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:117 Resp: 86293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 77.5 | 39.1 | 117.3 |



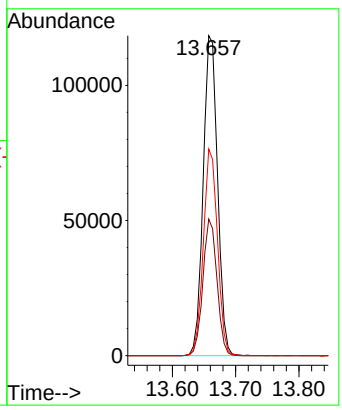


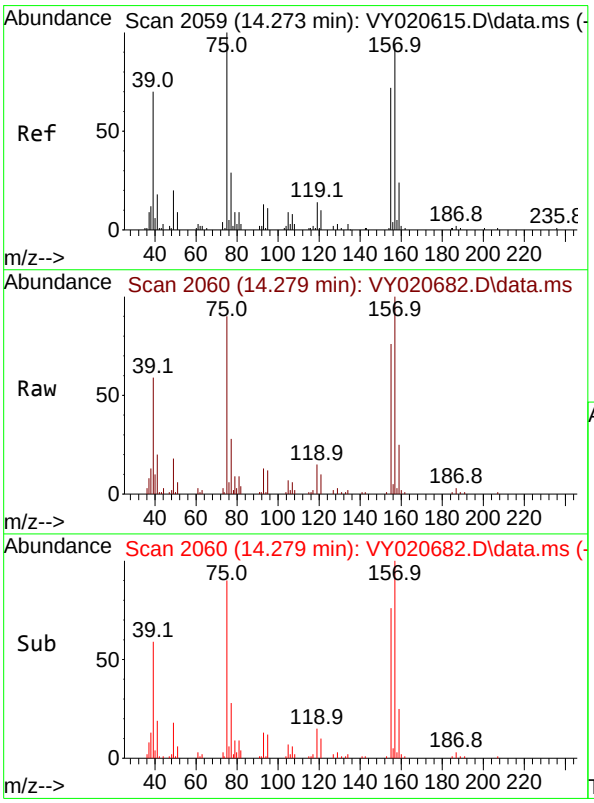

#91
1,2-Dichlorobenzene
Concen: 48.776 ug/l
RT: 13.657 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 187168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.9 | 21.3 | 63.7 |
| 148 | 63.6 | 32.0 | 96.0 |

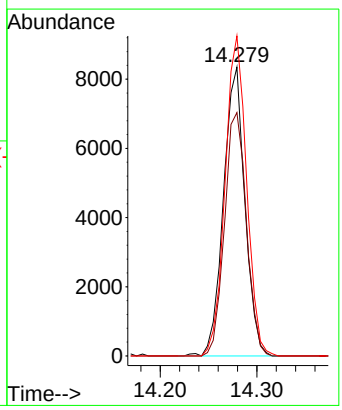


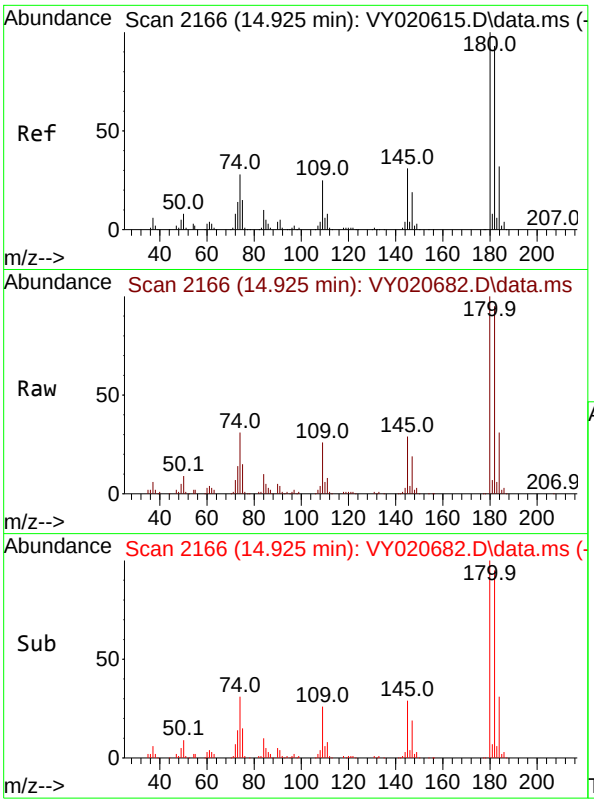




#92
1,2-Dibromo-3-Chloropropane
Concen: 47.271 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.006 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion: 75 Resp: 12831

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 86.1 | 41.1 | 123.3 |
| 157 | 111.1 | 52.9 | 158.8 |



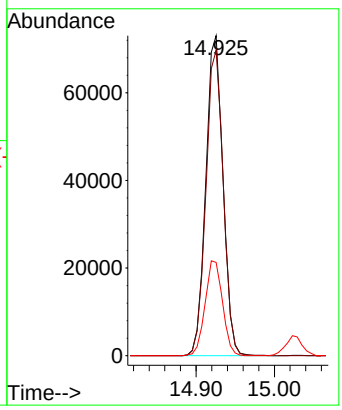


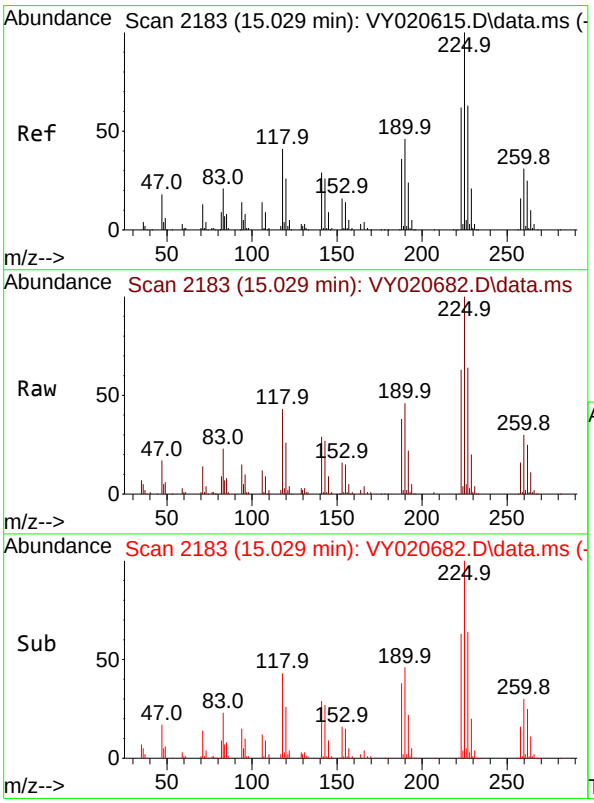

#93
1,2,4-Trichlorobenzene
Concen: 47.858 ug/l
RT: 14.925 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:180 Resp: 111082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.2 | 47.9 | 143.6 |
| 145 | 30.1 | 15.6 | 46.7 |

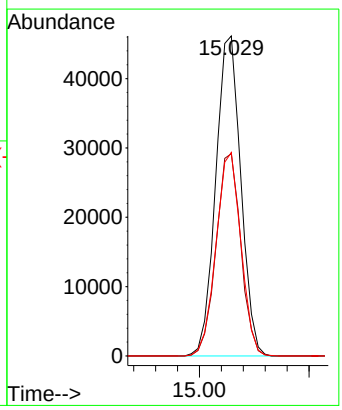


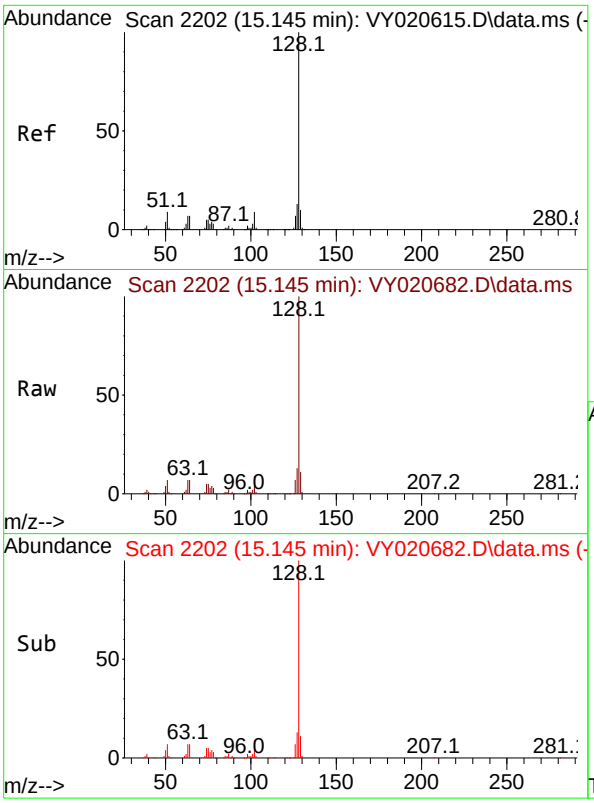




#94
Hexachlorobutadiene
Concen: 48.301 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:225 Resp: 73289

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.4 | 31.8 | 95.3 |
| 227 | 63.0 | 32.2 | 96.6 |



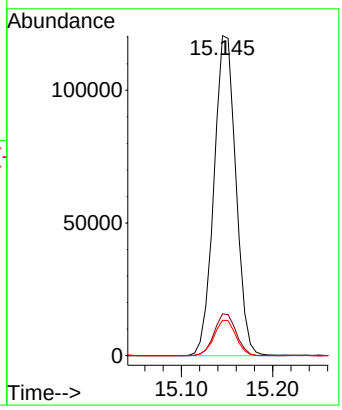


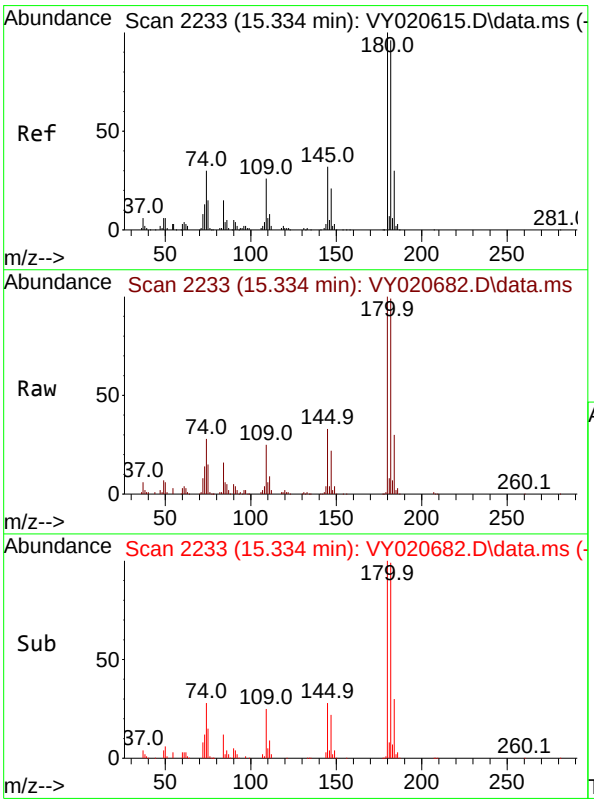

#95
Naphthalene
Concen: 50.583 ug/l
RT: 15.145 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:128 Resp: 201284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.1 | 10.7 | 16.1 |
| 129 | 11.1 | 8.5 | 12.7 |

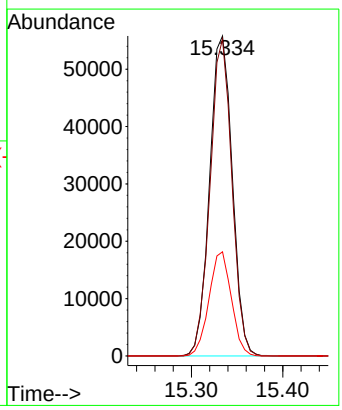



#96
1,2,3-Trichlorobenzene
Concen: 48.917 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. 0.000 min
Lab File: VY020682.D
Acq: 20 Dec 2024 19:35

Tgt Ion:180 Resp: 95931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.3 | 141.9 |
| 145 | 32.1 | 16.0 | 48.0 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020706.D
Acq On : 26 Dec 2024 09:31
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Dec 26 16:01:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 15:59:15 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 118156 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 168634 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 139342 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.359 | 152 | 68108 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 3955 | 4.087 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 8.180%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 3966 | 4.270 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 8.540%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 12366 | 4.957 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 9.920%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 5109 | 4.139 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 8.280%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 4346 | 4.673 | ug/l | | 85 |
| 3) Chloromethane | 2.074 | 50 | 1604 | 4.624 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.214 | 62 | 1987 | 4.624 | ug/l | | 97 |
| 5) Bromomethane | 2.611 | 94 | 1547 | 4.768 | ug/l | | 81 |
| 6) Chloroethane | 2.757 | 64 | 1195 | 4.635 | ug/l | # | 81 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 7688 | 4.652 | ug/l | | 88 |
| 8) Diethyl Ether | 3.470 | 74 | 1765 | 4.488 | ug/l | | 83 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 4090 | 4.508 | ug/l | | 93 |
| 10) Methyl Iodide | 4.019 | 142 | 4193 | 4.226 | ug/l | | 99 |
| 11) Tert butyl alcohol | 4.885 | 59 | 1986 | 13.066 | ug/l | # | 89 |
| 12) 1,1-Dichloroethene | 3.818 | 96 | 3846 | 4.763 | ug/l | # | 80 |
| 13) Acrolein | 3.678 | 56 | 596 | 29.459 | ug/l | | 93 |
| 14) Allyl chloride | 4.403 | 41 | 4206 | 4.451 | ug/l | | 99 |
| 15) Acrylonitrile | 5.074 | 53 | 3397 | 22.361 | ug/l | # | 89 |
| 16) Acetone | 3.897 | 43 | 2982 | 24.288 | ug/l | | 95 |
| 17) Carbon Disulfide | 4.129 | 76 | 8806 | 4.445 | ug/l | | 97 |
| 18) Methyl Acetate | 4.403 | 43 | 1356 | 4.081 | ug/l | | 99 |
| 19) Methyl tert-butyl Ether | 5.129 | 73 | 10398 | 4.620 | ug/l | | 97 |
| 20) Methylene Chloride | 4.629 | 84 | 1917 | 2.403 | ug/l | | 92 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 4008 | 4.606 | ug/l | | 91 |
| 22) Diisopropyl ether | 6.031 | 45 | 8608 | 4.481 | ug/l | # | 86 |
| 23) Vinyl Acetate | 5.982 | 43 | 25395 | 22.132 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 6745 | 4.683 | ug/l | | 93 |
| 25) 2-Butanone | 6.909 | 43 | 4081 | 24.607 | ug/l | | 94 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 8915 | 5.057 | ug/l | | 94 |
| 27) cis-1,2-Dichloroethene | 6.915 | 96 | 4953 | 4.753 | ug/l | | 95 |
| 28) Bromochloromethane | 7.268 | 49 | 1572 | 4.127 | ug/l | # | 100 |
| 29) Tetrahydrofuran | 7.281 | 42 | 2337 | 22.956 | ug/l | | 95 |
| 30) Chloroform | 7.433 | 83 | 9912 | 5.350 | ug/l | | 93 |
| 31) Cyclohexane | 7.713 | 56 | 7429 | 5.976 | ug/l | # | 81 |
| 32) 1,1,1-Trichloroethane | 7.634 | 97 | 9621 | 4.844 | ug/l | | 98 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 5685 | 4.633 | ug/l | | 96 |
| 37) Ethyl Acetate | 7.012 | 43 | 1951 | 4.825 | ug/l | # | 86 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 9371 | 4.638 | ug/l | | 97 |
| 39) Methylcyclohexane | 9.122 | 83 | 7196 | 4.576 | ug/l | | 95 |
| 40) Benzene | 8.098 | 78 | 16340 | 4.595 | ug/l | | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020706.D
Acq On : 26 Dec 2024 09:31
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Dec 26 16:01:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 15:59:15 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.226 | 41 | 865 | 4.235 ug/l # | 84 |
| 42) 1,2-Dichloroethane | 8.171 | 62 | 5012 | 4.396 ug/l | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 3867 | 4.500 ug/l | 99 |
| 44) Trichloroethene | 8.872 | 130 | 4862 | 4.578 ug/l | 98 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 3462 | 4.810 ug/l | 94 |
| 46) Dibromomethane | 9.238 | 93 | 2330 | 4.678 ug/l | 96 |
| 47) Bromodichloromethane | 9.433 | 83 | 6469 | 4.581 ug/l | 89 |
| 48) Methyl methacrylate | 9.238 | 41 | 1784 | 4.445 ug/l | 92 |
| 49) 1,4-Dioxane | 9.250 | 88 | 342 | 72.090 ug/l # | 80 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 9383 | 22.620 ug/l | 99 |
| 52) Toluene | 10.182 | 92 | 11031 | 4.526 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 5357 | 4.320 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 6091 | 4.481 ug/l | 92 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 3068 | 4.826 ug/l # | 93 |
| 56) Ethyl methacrylate | 10.445 | 69 | 3250 | 3.891 ug/l | 94 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 4475 | 4.337 ug/l | 95 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 5665 | 19.451 ug/l | 95 |
| 59) 2-Hexanone | 10.768 | 43 | 5560 | 20.301 ug/l | 95 |
| 60) Dibromochloromethane | 10.920 | 129 | 4656 | 4.532 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 2672 | 4.467 ug/l | 93 |
| 64) Tetrachloroethene | 10.652 | 164 | 4294 | 4.511 ug/l | 92 |
| 65) Chlorobenzene | 11.451 | 112 | 12888 | 4.724 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 5080 | 4.806 ug/l | 95 |
| 67) Ethyl Benzene | 11.524 | 91 | 21456 | 4.499 ug/l | 100 |
| 68) m/p-Xylenes | 11.640 | 106 | 16447 | 9.042 ug/l | 99 |
| 69) o-Xylene | 11.963 | 106 | 7691 | 4.425 ug/l | 95 |
| 70) Styrene | 11.981 | 104 | 13353 | 4.577 ug/l | 96 |
| 71) Bromoform | 12.146 | 173 | 2618 | 4.308 ug/l # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 21271 | 4.508 ug/l | 97 |
| 74) N-amyl acetate | 12.078 | 43 | 2662 | 3.970 ug/l | 94 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 2932 | 4.847 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 4095 | 8.425 ug/l # | 100 |
| 77) Bromobenzene | 12.542 | 156 | 5187 | 4.775 ug/l | 95 |
| 78) n-propylbenzene | 12.603 | 91 | 23980 | 4.534 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 13687 | 4.540 ug/l | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 18014 | 4.582 ug/l | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 1030 | 4.700 ug/l | 94 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 14294 | 4.588 ug/l | 97 |
| 83) tert-Butylbenzene | 13.005 | 119 | 16938 | 4.613 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 17114 | 4.473 ug/l | 97 |
| 85) sec-Butylbenzene | 13.182 | 105 | 22583 | 4.564 ug/l | 97 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 19901 | 4.513 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 9727 | 4.582 ug/l | 95 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 10161 | 4.811 ug/l | 93 |
| 89) n-Butylbenzene | 13.627 | 91 | 16045 | 4.359 ug/l | 98 |
| 90) Hexachloroethane | 13.883 | 117 | 3991 | 4.760 ug/l | 95 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 8154 | 4.480 ug/l | 94 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.291 | 75 | 460 | 3.921 ug/l | 86 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 4536 | 3.920 ug/l | 95 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 3664 | 4.345 ug/l | 98 |
| 95) Naphthalene | 15.157 | 128 | 6669 | 3.599 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 3615 | 3.753 ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020706.D
Acq On : 26 Dec 2024 09:31
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Dec 26 16:01:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 15:59:15 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

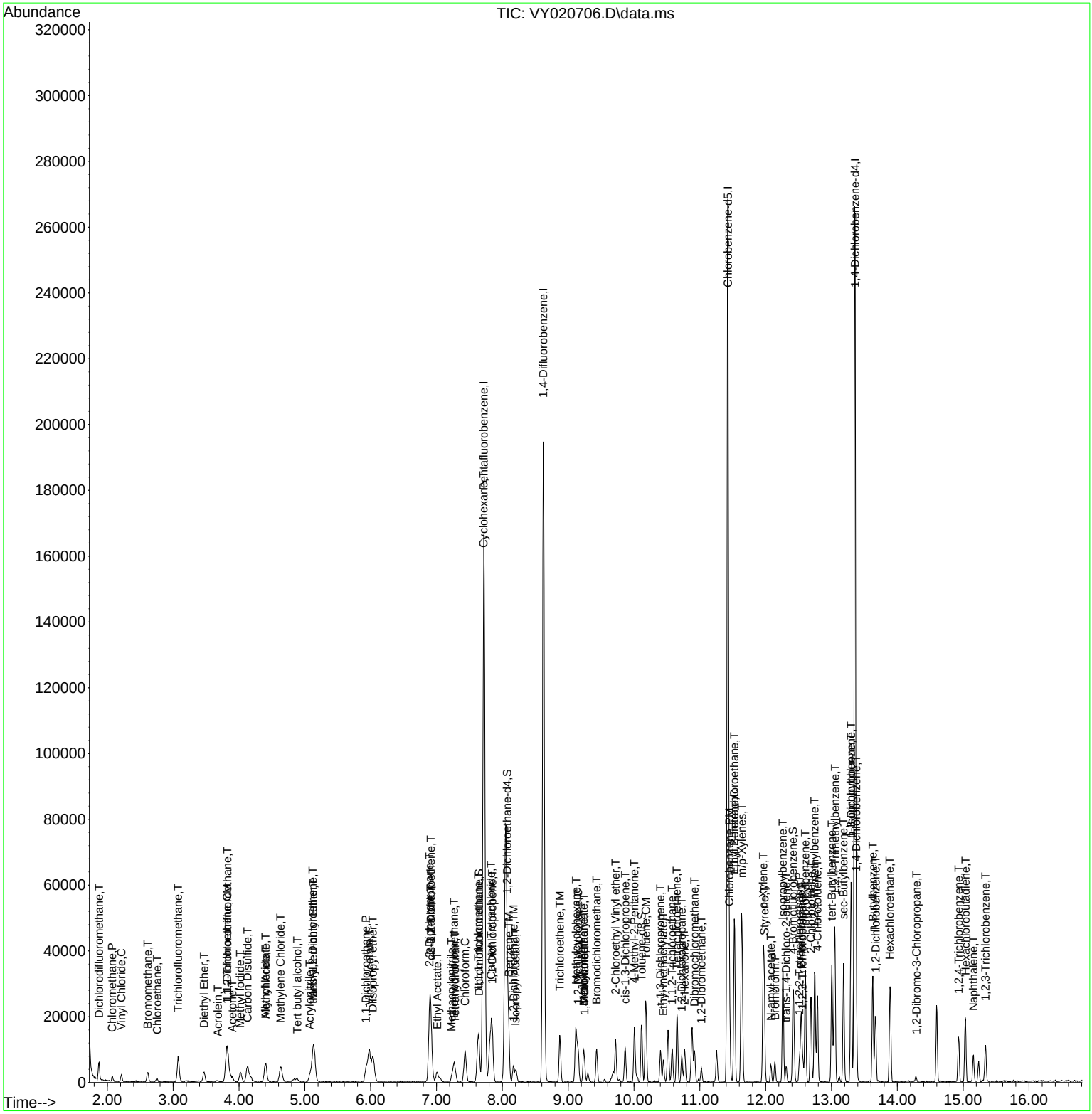
(#) = qualifier out of range (m) = manual integration (+) = signals summed

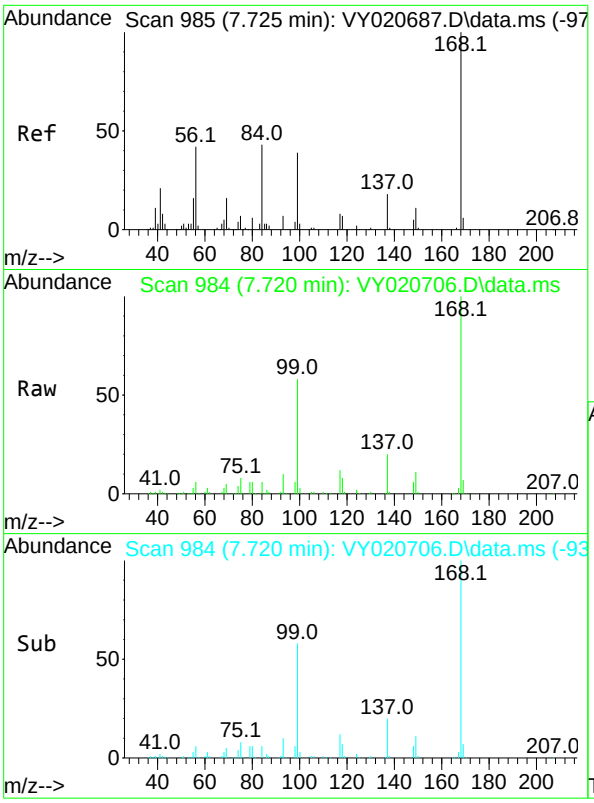
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020706.D
Acq On : 26 Dec 2024 09:31
Operator : SY/MD
Sample : VSTDICC005
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 3 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Quant Time: Dec 26 16:01:53 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 15:59:15 2024
Response via : Initial Calibration



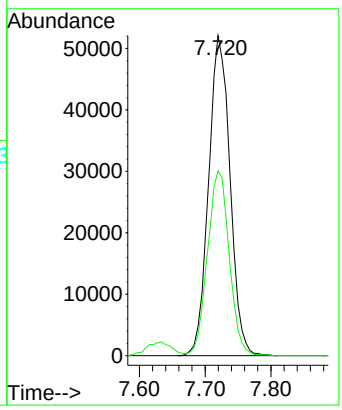


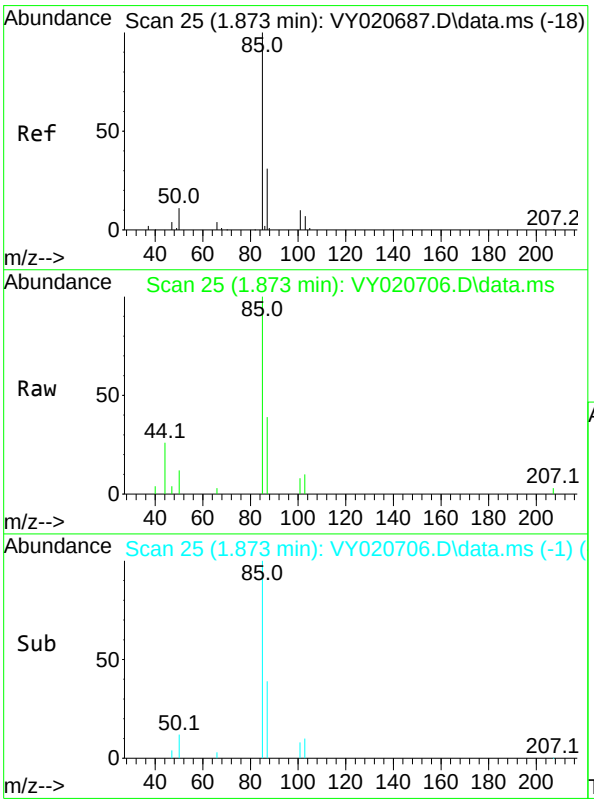

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 9
Delta R.T. -0.005 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:168 Resp: 118156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 57.8 | 43.8 | 65.6 |

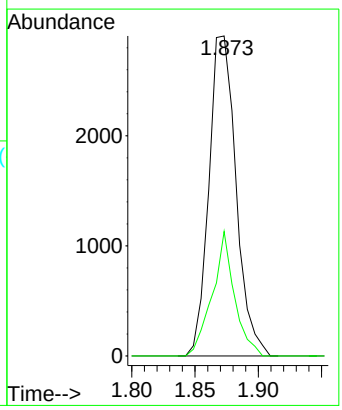


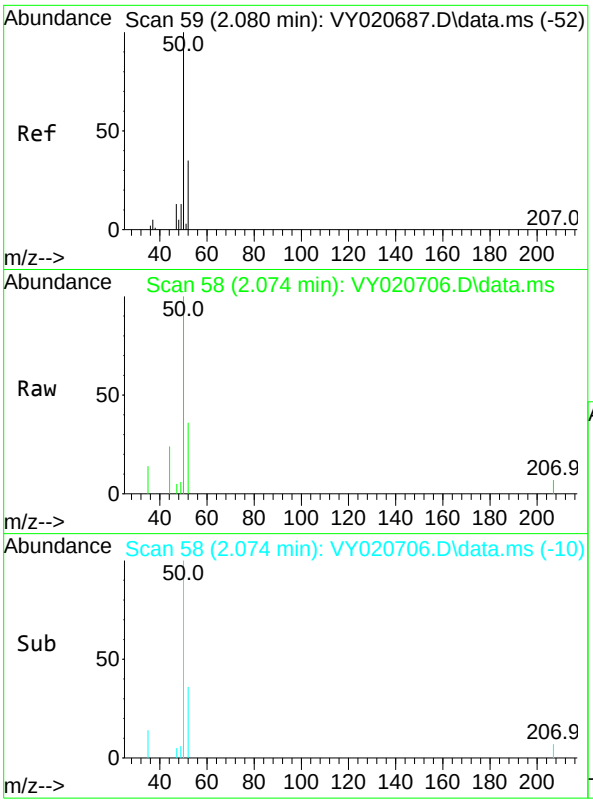




#2
Dichlorodifluoromethane
Concen: 4.673 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 85 Resp: 4346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 38.9 | 15.4 | 46.4 |



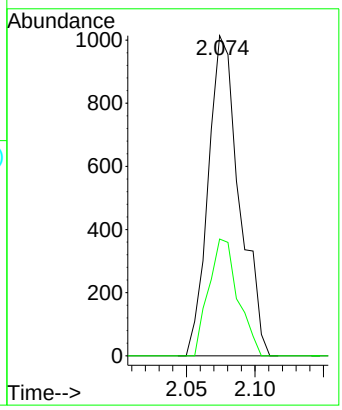


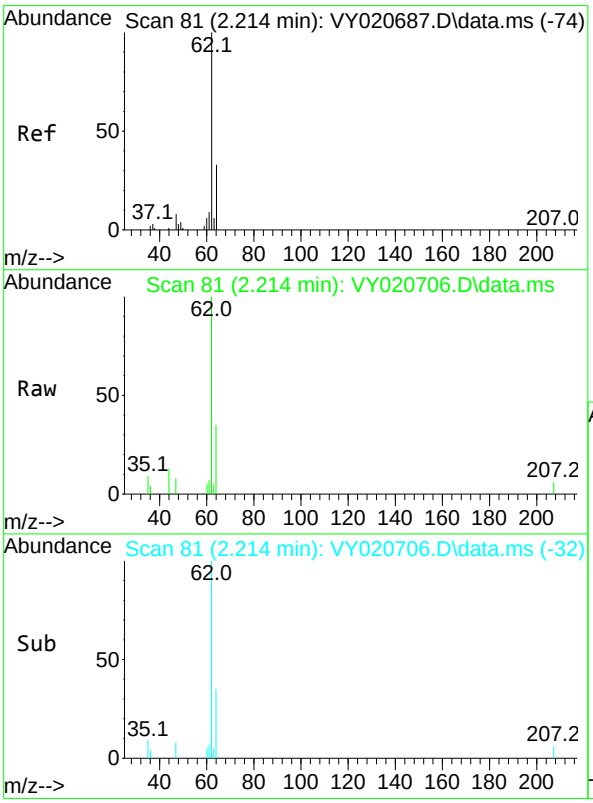

#3
Chloromethane
Concen: 4.624 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 50 Resp: 1604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.5 | 28.2 | 42.2 |

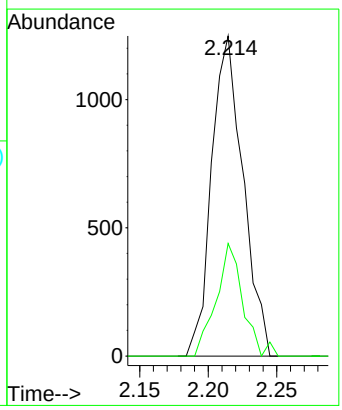


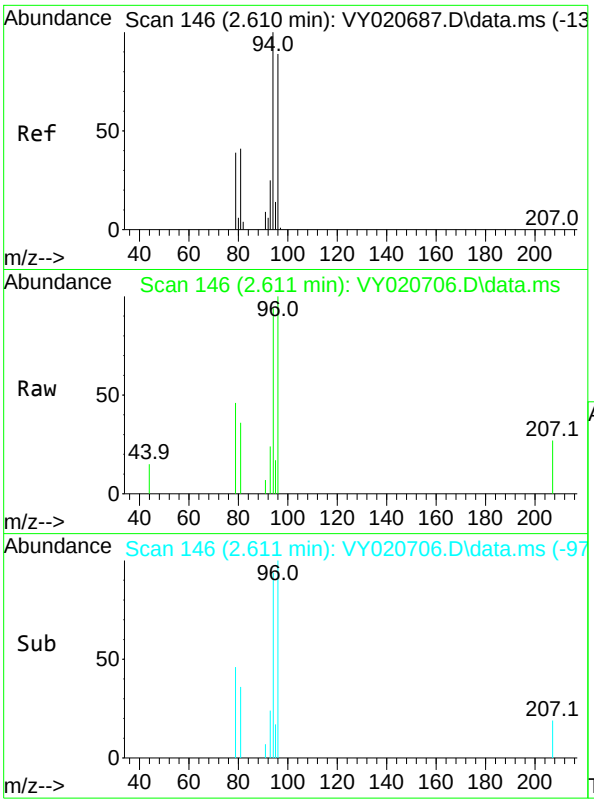




#4
Vinyl Chloride
Concen: 4.624 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 62 Resp: 1987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 35.2 | 26.6 | 40.0 |



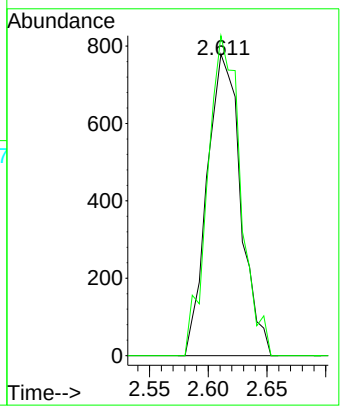


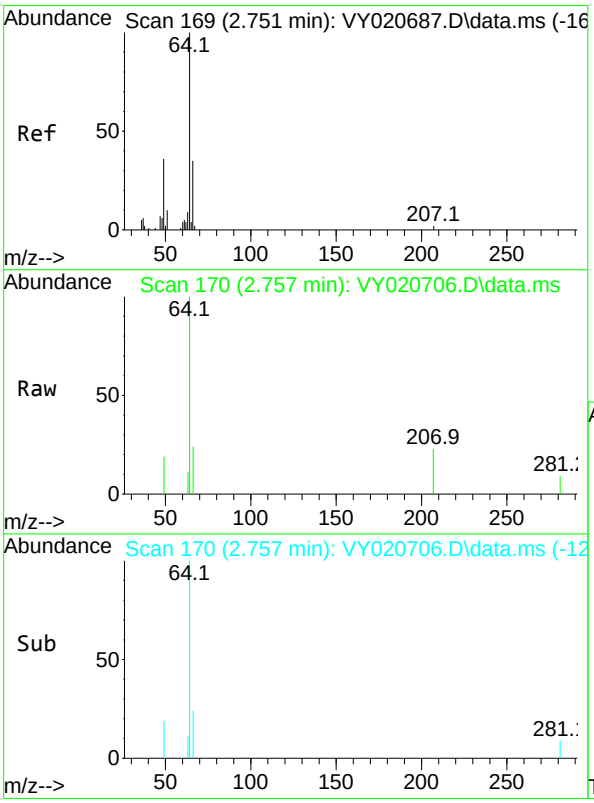

#5
Bromomethane
Concen: 4.768 ug/l
RT: 2.611 min Scan# 14
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 94 Resp: 1547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 106.2 | 71.0 | 106.6 |

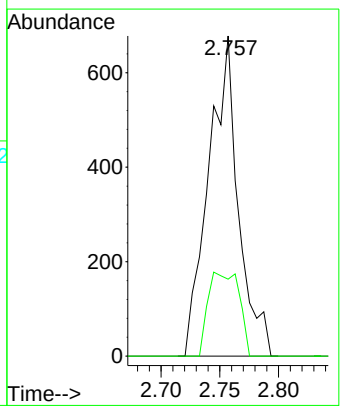


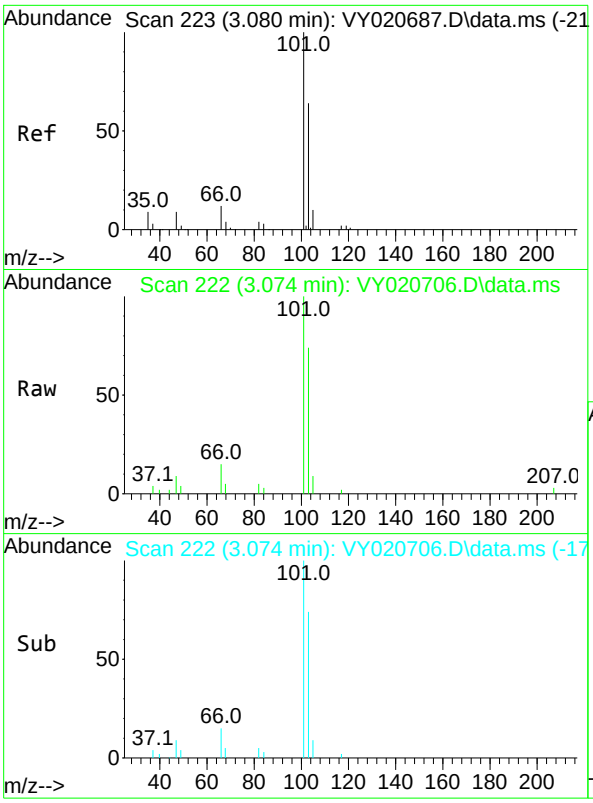




#6
Chloroethane
Concen: 4.635 ug/l
RT: 2.757 min Scan# 170
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 64 Resp: 1195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 24.0 | 27.8 | 41.8# |



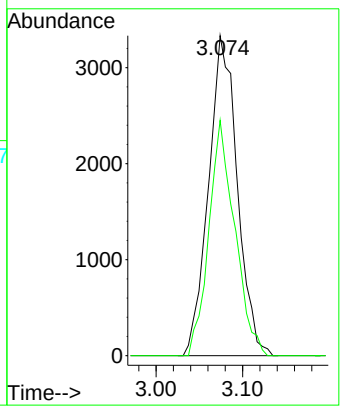


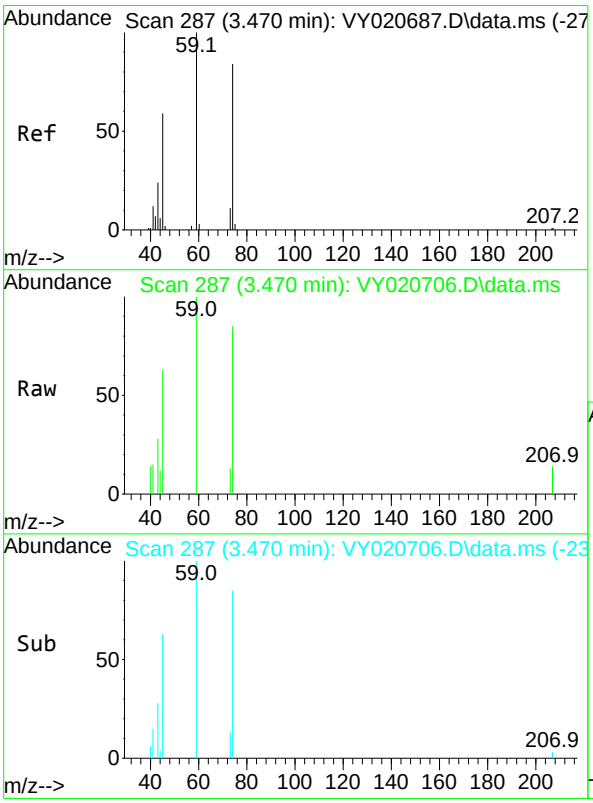

#7
Trichlorofluoromethane
Concen: 4.652 ug/l
RT: 3.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 7688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 73.6 | 51.4 | 77.0 |

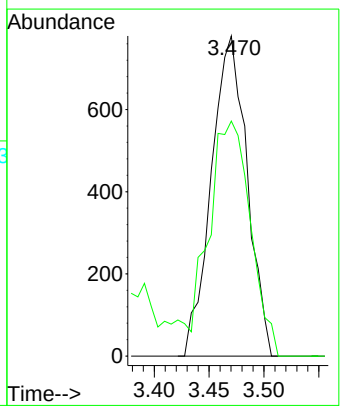


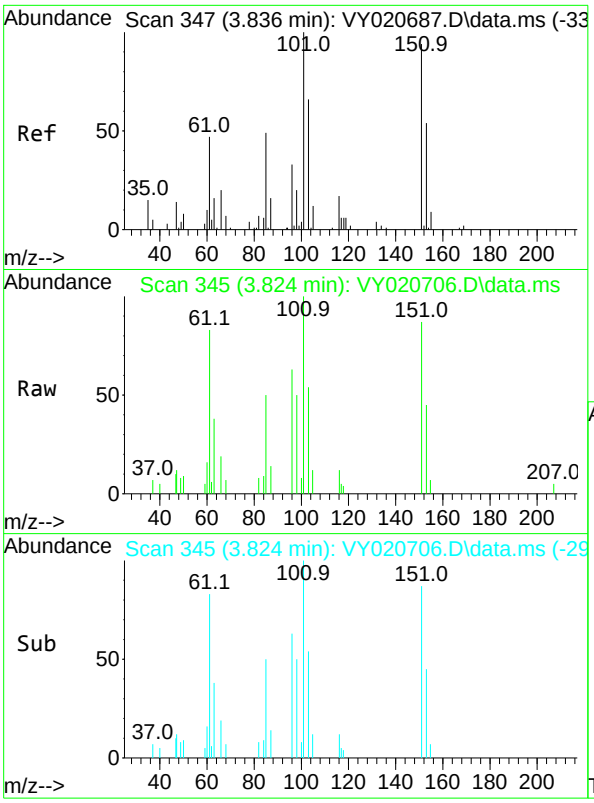




#8
Diethyl Ether
Concen: 4.488 ug/l
RT: 3.470 min Scan# 287
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 74 Resp: 1765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 86.1 | 35.8 | 107.4 |



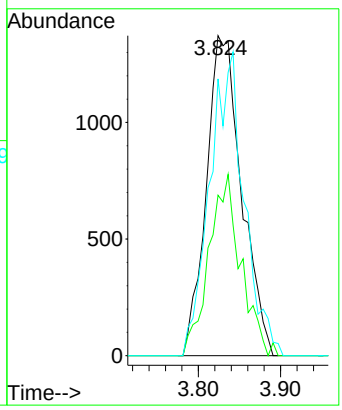


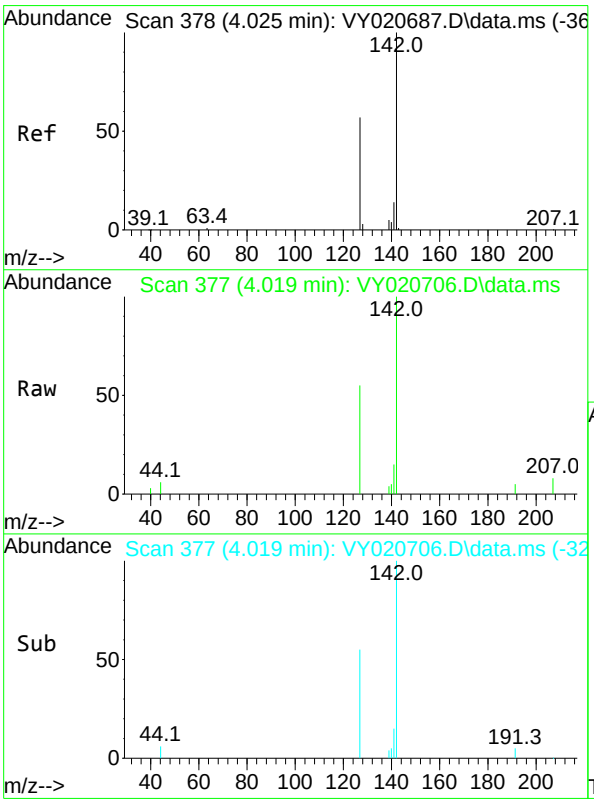

#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.508 ug/l
RT: 3.824 min Scan# 34
Delta R.T. -0.012 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 4090

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 51.1 | 38.2 | 57.2 |
| 151 | 92.5 | 68.4 | 102.6 |

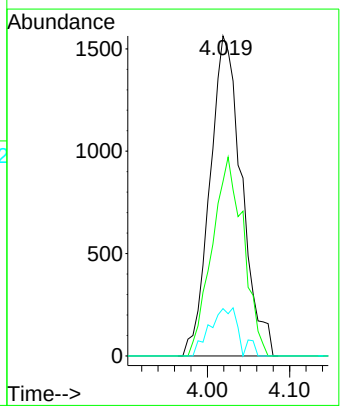


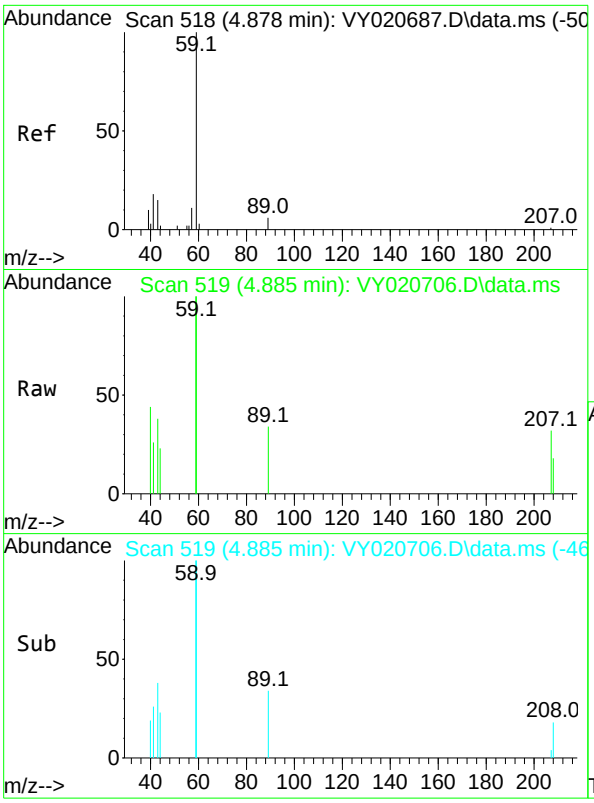




#10
Methyl Iodide
Concen: 4.226 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:142 Resp: 4193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 61.6 | 48.8 | 73.2 |
| 141 | 13.9 | 11.9 | 17.9 |



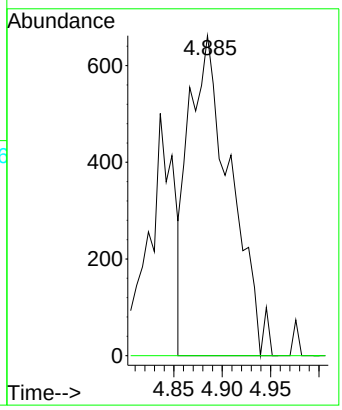


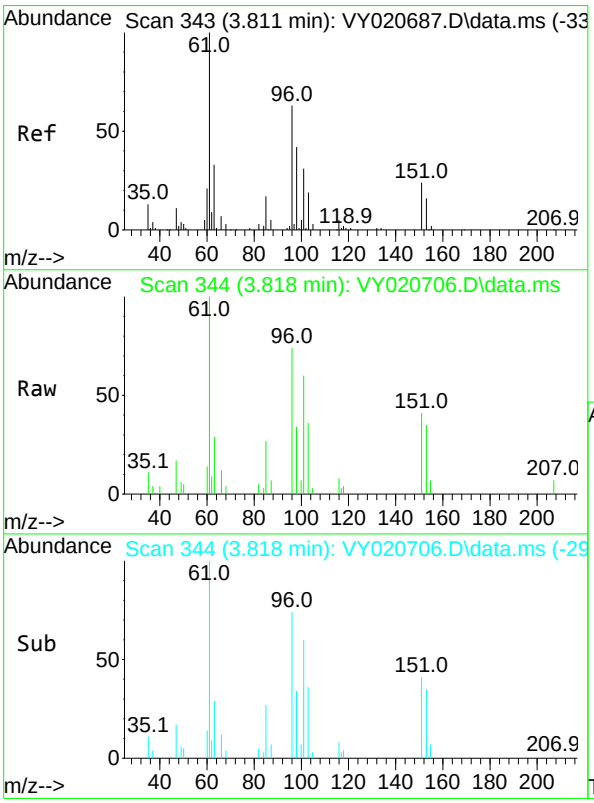

#11
Tert butyl alcohol
Concen: 13.066 ug/l
RT: 4.885 min Scan# 5
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 59 Resp: 1986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 0.0 | 2.8 | 4.2# |

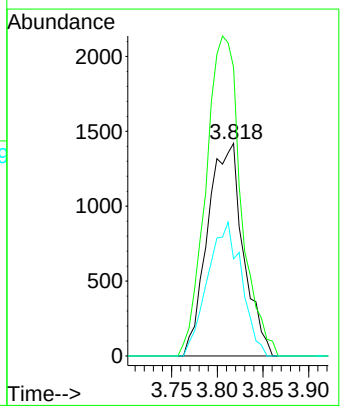


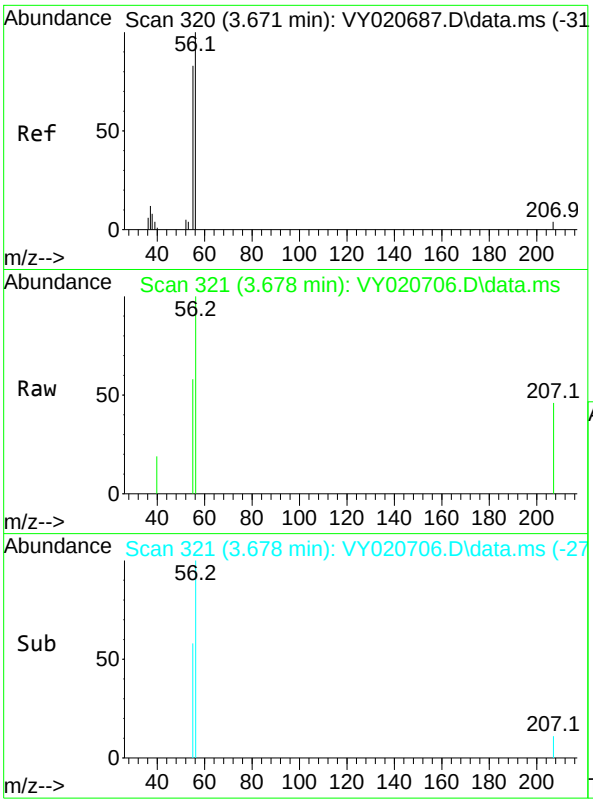




#12
1,1-Dichloroethene
Concen: 4.763 ug/l
RT: 3.818 min Scan# 344
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 96 Resp: 3846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.8 | 127.1 | 190.7 |
| 98 | 45.7 | 53.4 | 80.0# |



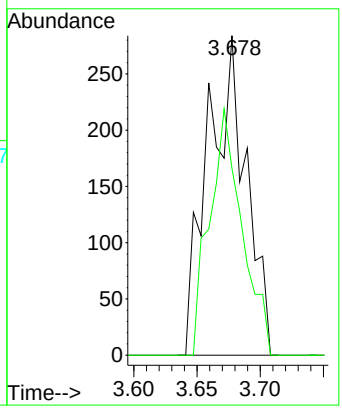


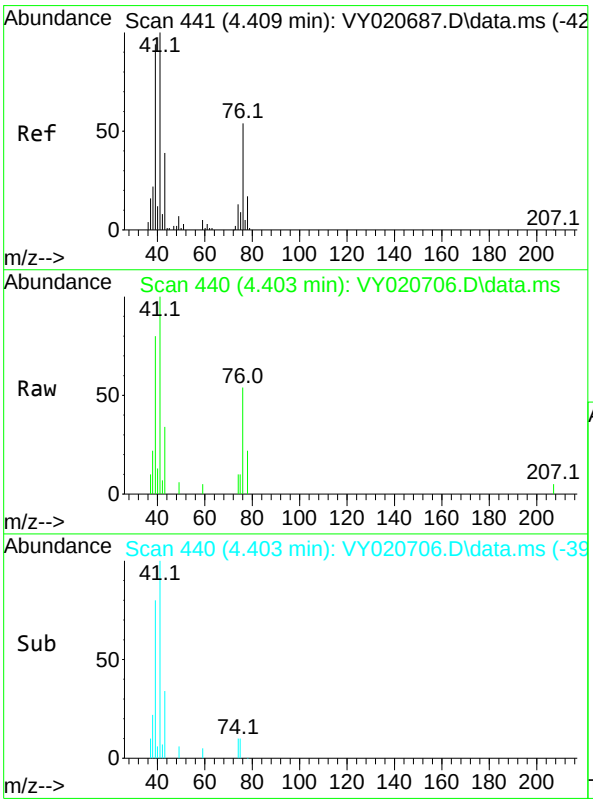

#13
Acrolein
Concen: 29.459 ug/l
RT: 3.678 min Scan# 3
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 65.6 | 57.0 | 85.4 |

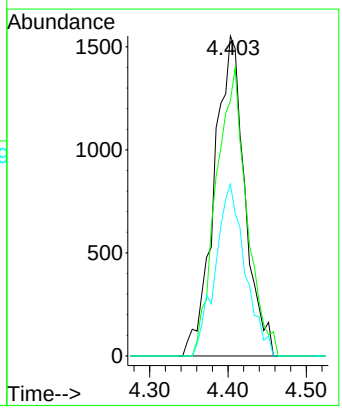


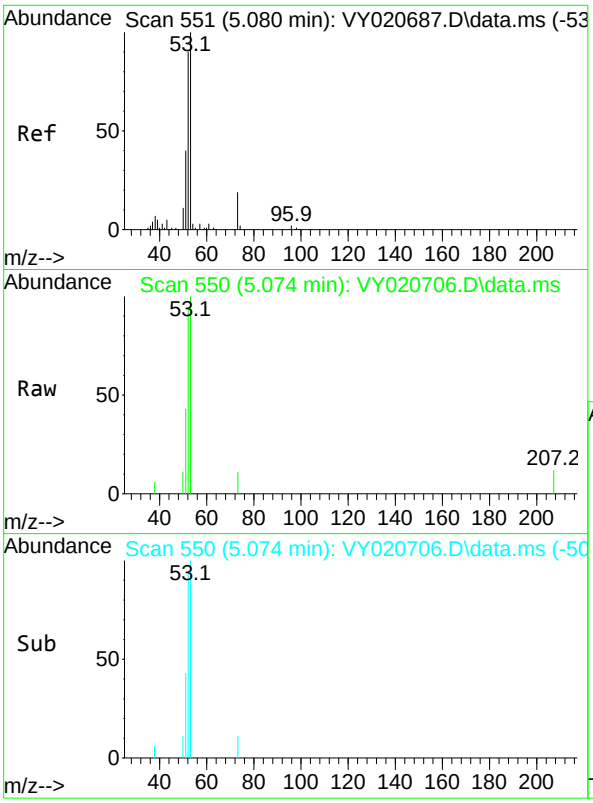




#14
Allyl chloride
Concen: 4.451 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 41 Resp: 4206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 90.1 | 73.5 | 110.3 |
| 76 | 52.5 | 41.8 | 62.8 |



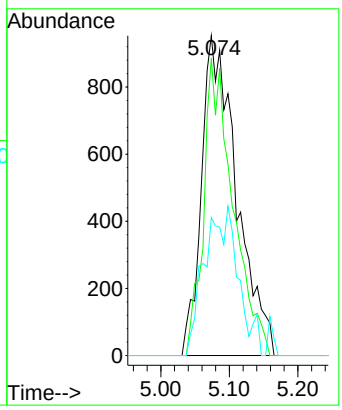


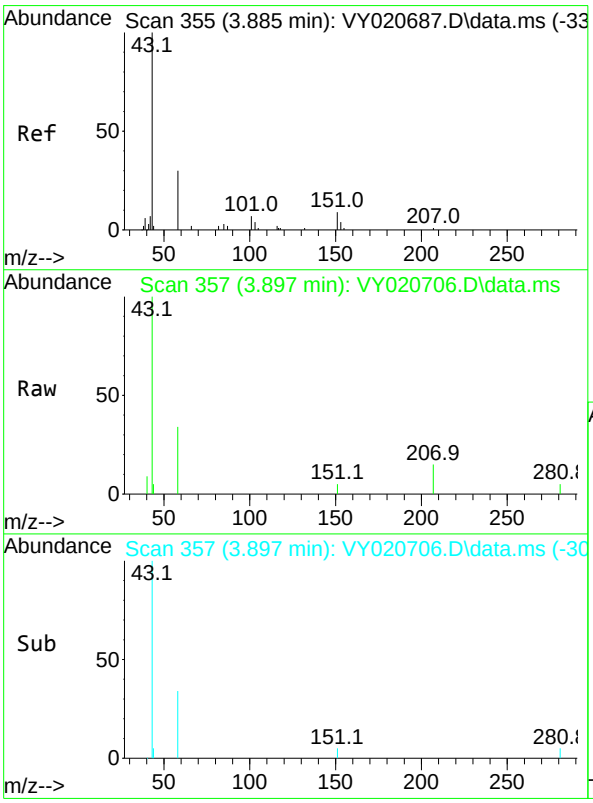

#15
Acrylonitrile
Concen: 22.361 ug/l
RT: 5.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 53 Resp: 3397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 77.8 | 67.1 | 100.7 |
| 51 | 26.8 | 31.4 | 47.0# |

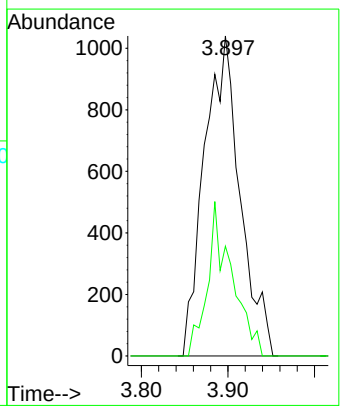


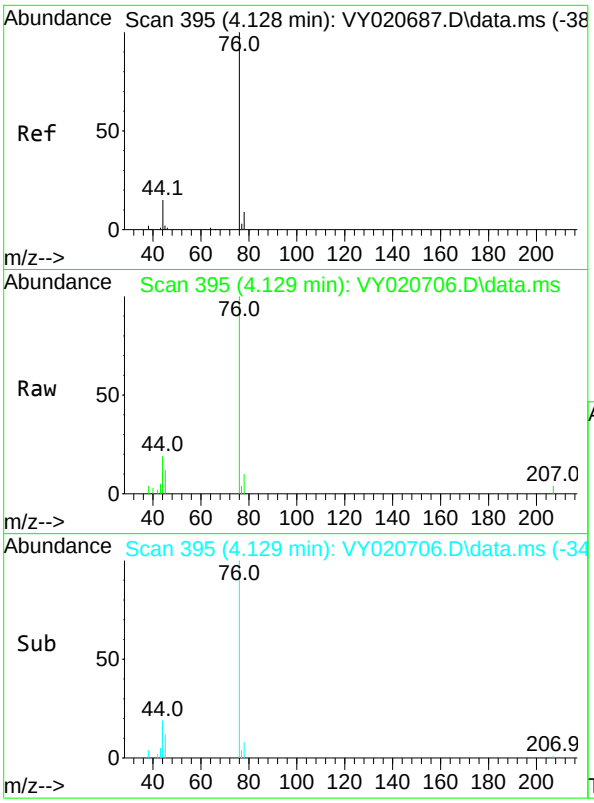




#16
Acetone
Concen: 24.288 ug/l
RT: 3.897 min Scan# 357
Delta R.T. 0.012 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 2982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 34.3 | 25.0 | 37.6 |



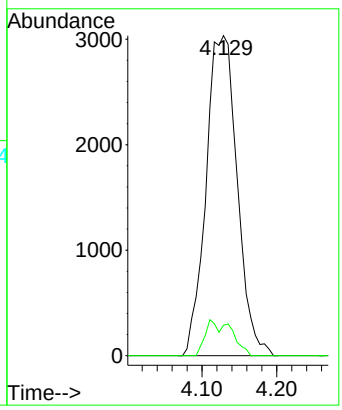


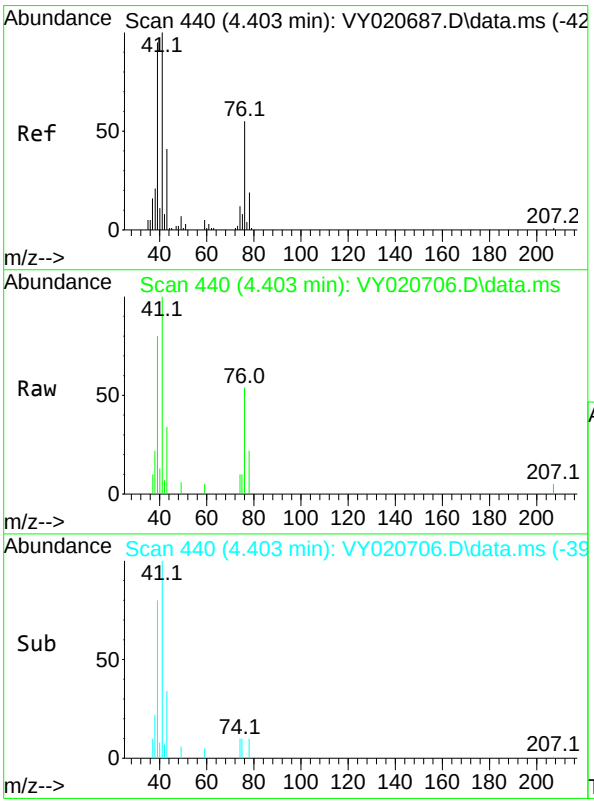

#17
Carbon Disulfide
Concen: 4.445 ug/l
RT: 4.129 min Scan# 3
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 76 Resp: 8806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.5 | 6.9 | 10.3 |

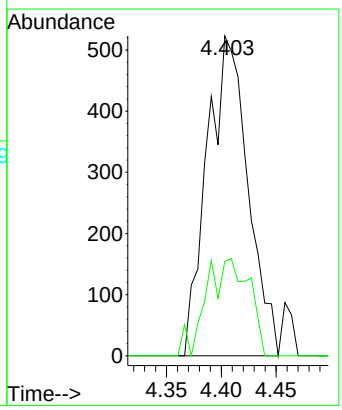


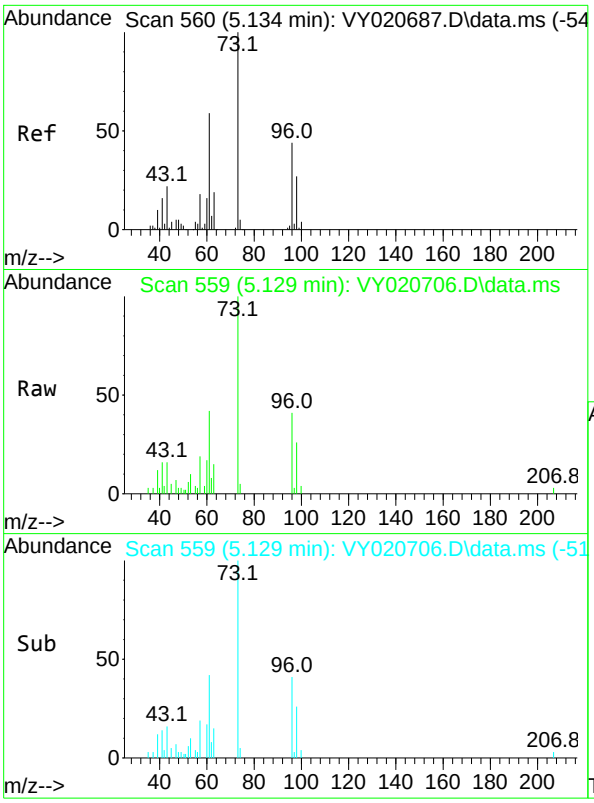




#18
Methyl Acetate
Concen: 4.081 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 1356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 32.0 | 25.3 | 37.9 |



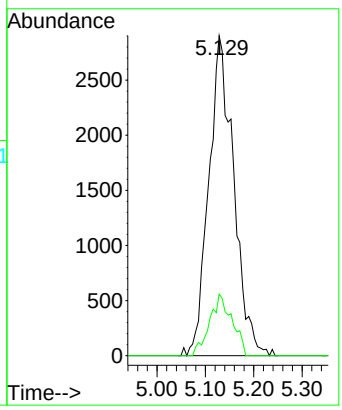


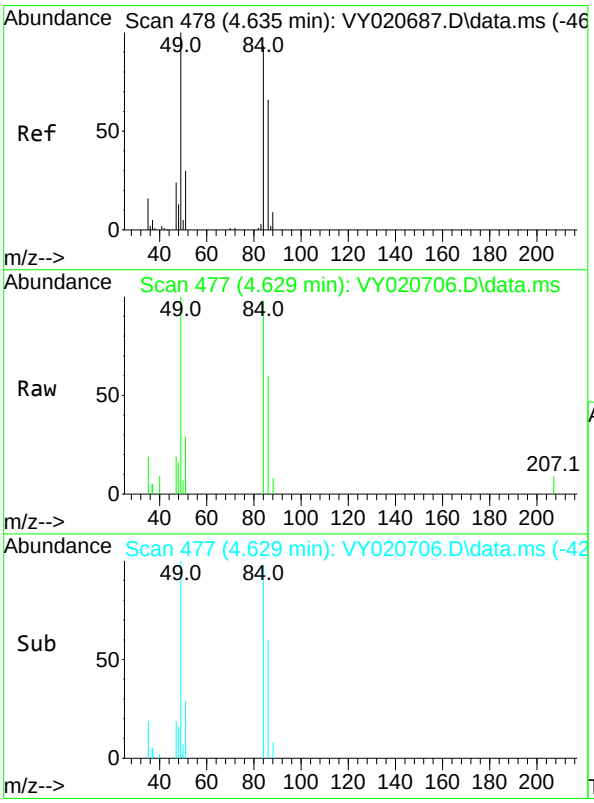

#19
Methyl tert-butyl Ether
Concen: 4.620 ug/l
RT: 5.129 min Scan# 5
Delta R.T. -0.005 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 73 Resp: 10398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.3 | 14.4 | 21.6 |

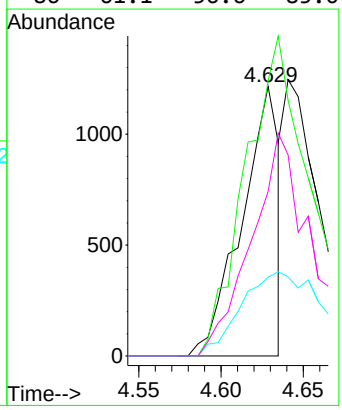


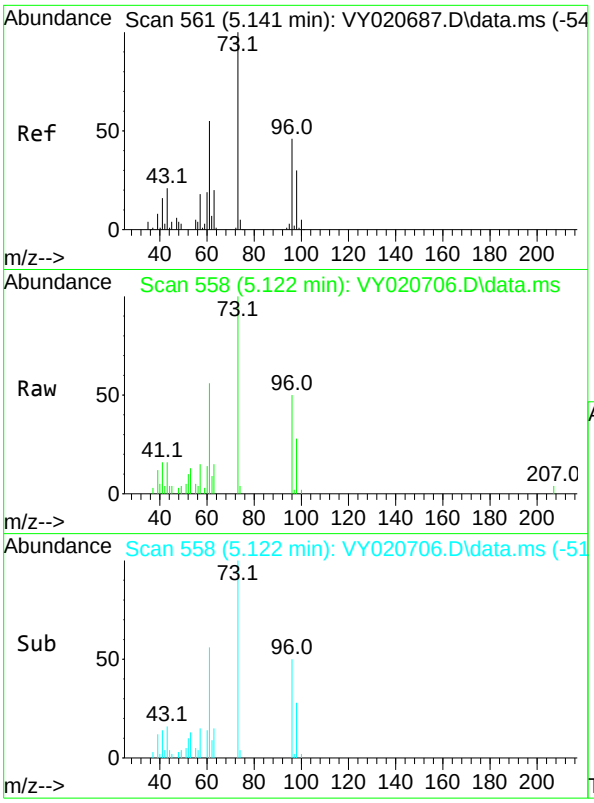




#20
Methylene Chloride
Concen: 2.403 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 84 Resp: 1917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 102.1 | 86.4 | 129.6 |
| 51 | 29.2 | 25.5 | 38.3 |
| 86 | 61.1 | 56.6 | 85.0 |



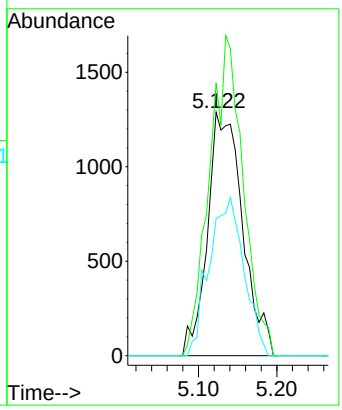


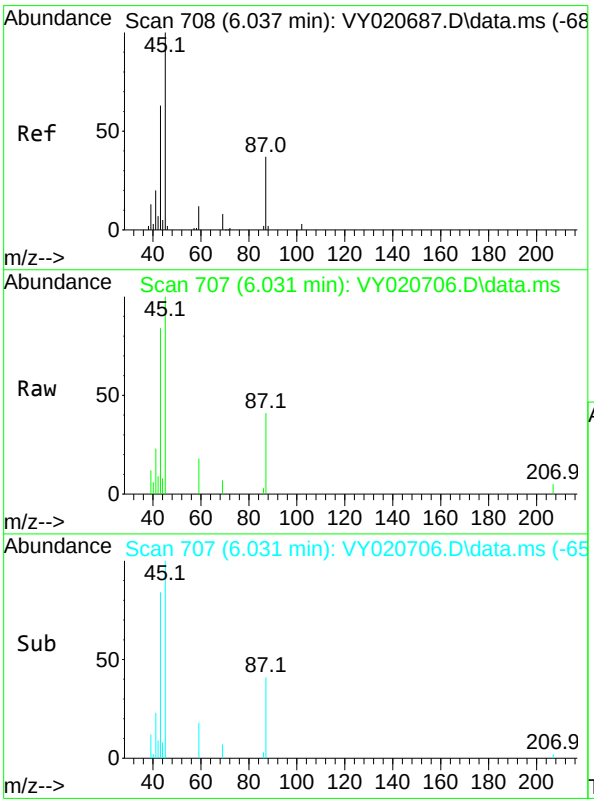

#21
trans-1,2-Dichloroethene
Concen: 4.606 ug/l
RT: 5.122 min Scan# 5
Delta R.T. -0.019 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 96 Resp: 4008

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 112.0 | 96.1 | 144.1 |
| 98 | 56.4 | 52.7 | 79.1 |

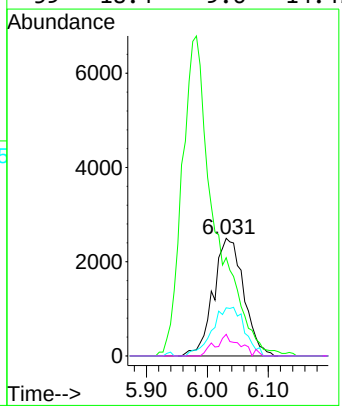


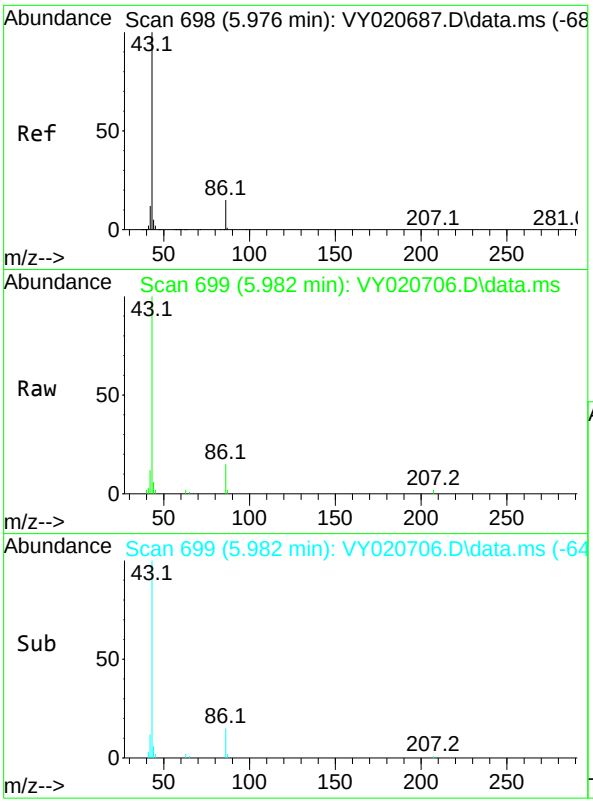




#22
Diisopropyl ether
Concen: 4.481 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 45 Resp: 8608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 79.8 | 51.3 | 76.9# |
| 87 | 41.0 | 30.6 | 46.0 |
| 59 | 18.4 | 9.6 | 14.4# |



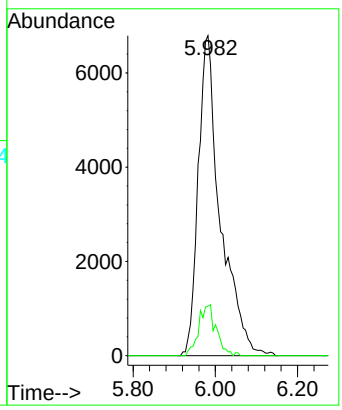


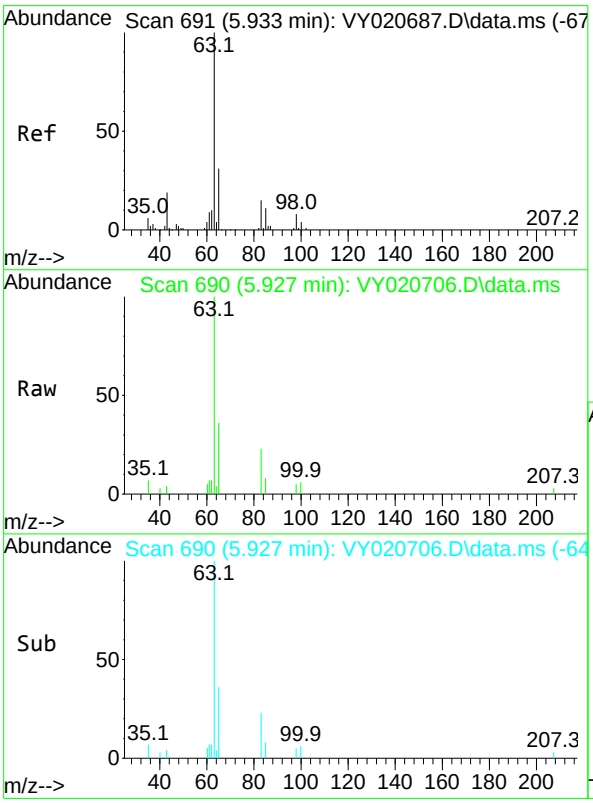

#23
Vinyl Acetate
Concen: 22.132 ug/l
RT: 5.982 min Scan# 6
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 25395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 15.5 | 12.0 | 18.0 |

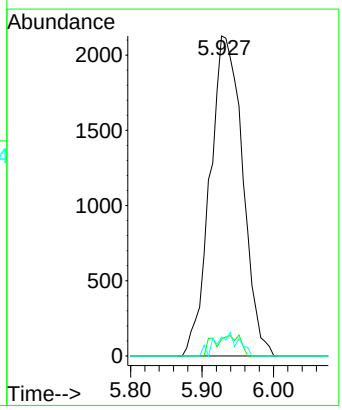


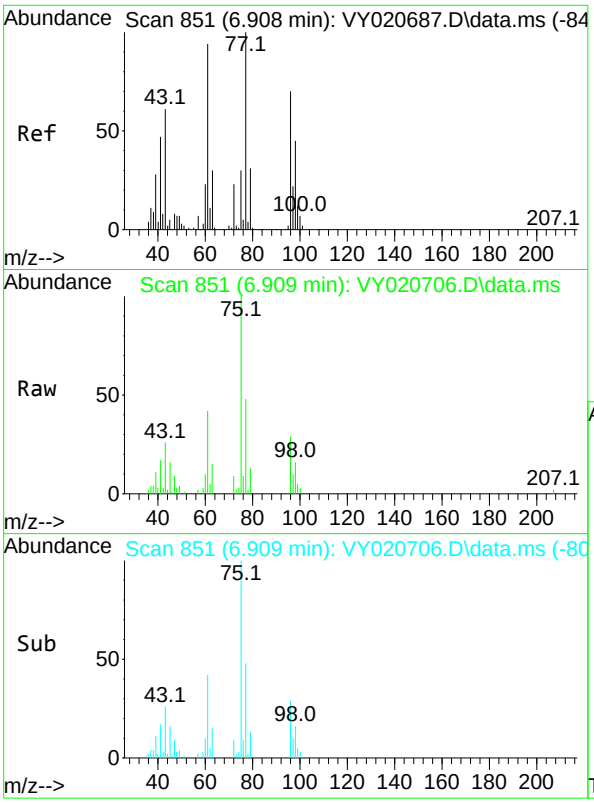




#24
1,1-Dichloroethane
Concen: 4.683 ug/l
RT: 5.927 min Scan# 690
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 63 Resp: 6745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 5.3 | 4.0 | 12.0 |
| 100 | 6.0 | 2.1 | 6.2 |



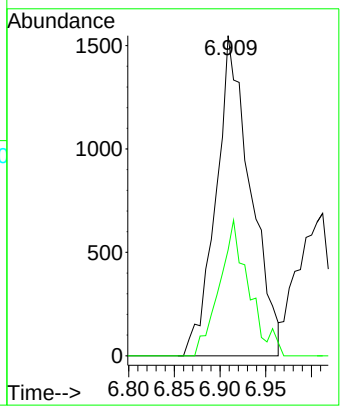


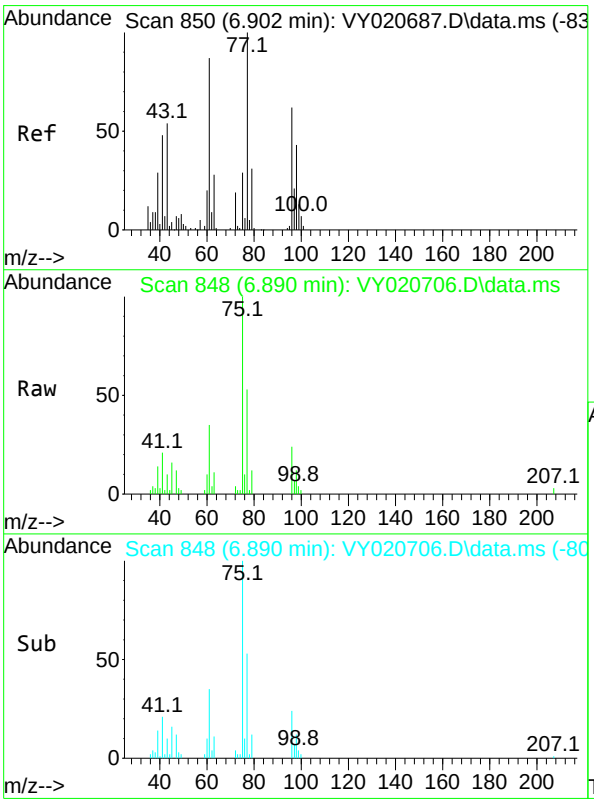

#25
2-Butanone
Concen: 24.607 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 4081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 33.1 | 29.5 | 44.3 |

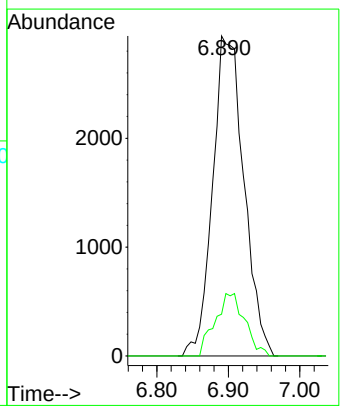


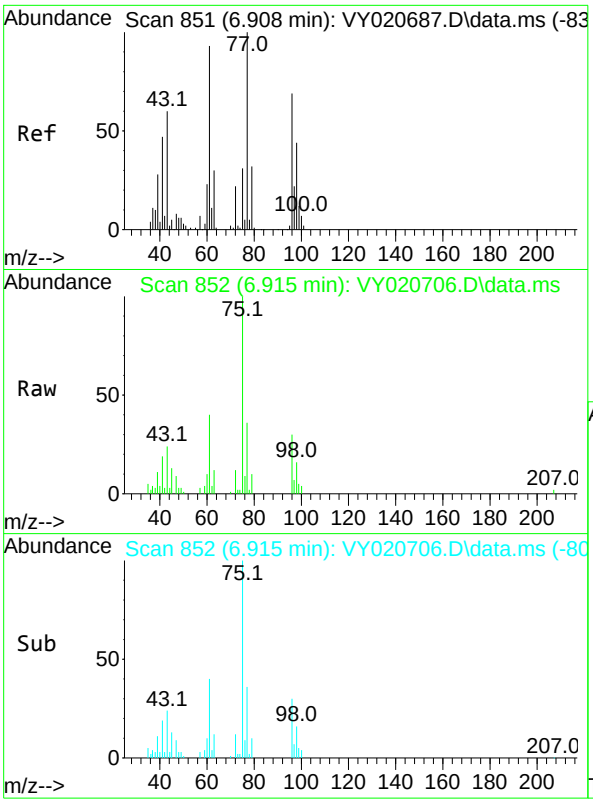




#26
2,2-Dichloropropane
Concen: 5.057 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 77 Resp: 8915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 18.6 | 10.8 | 32.4 |



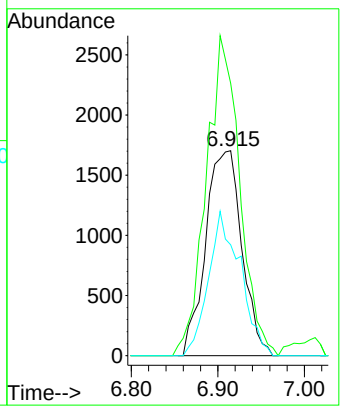


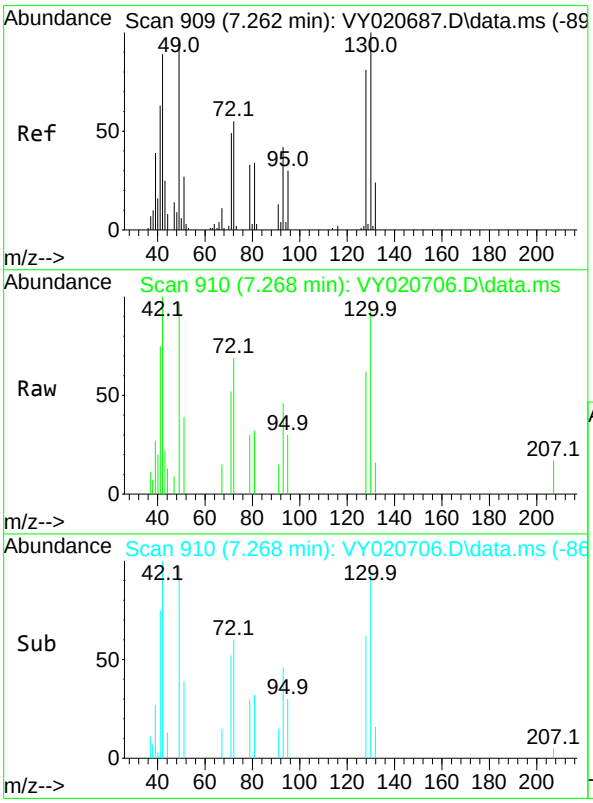

#27
cis-1,2-Dichloroethene
Concen: 4.753 ug/l
RT: 6.915 min Scan# 8
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 96 Resp: 4953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.5 | 0.0 | 277.2 |
| 98 | 61.9 | 0.0 | 131.0 |

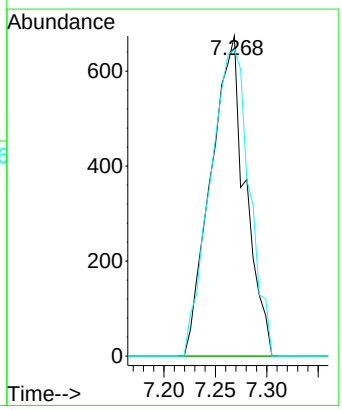


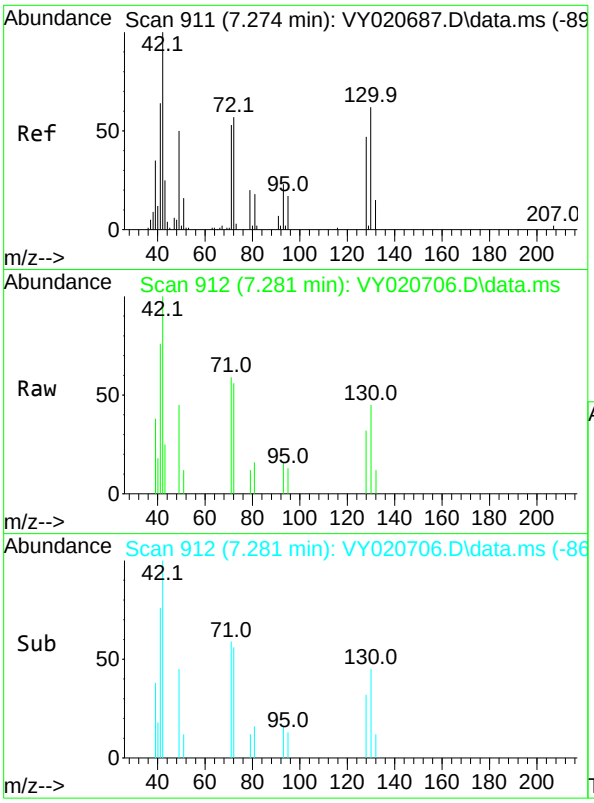




#28
Bromochloromethane
Concen: 4.127 ug/l
RT: 7.268 min Scan# 910
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 49 Resp: 1572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 5.4 |
| 130 | 109.0 | 87.2 | 130.8 |



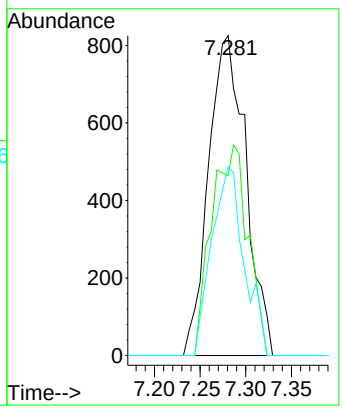


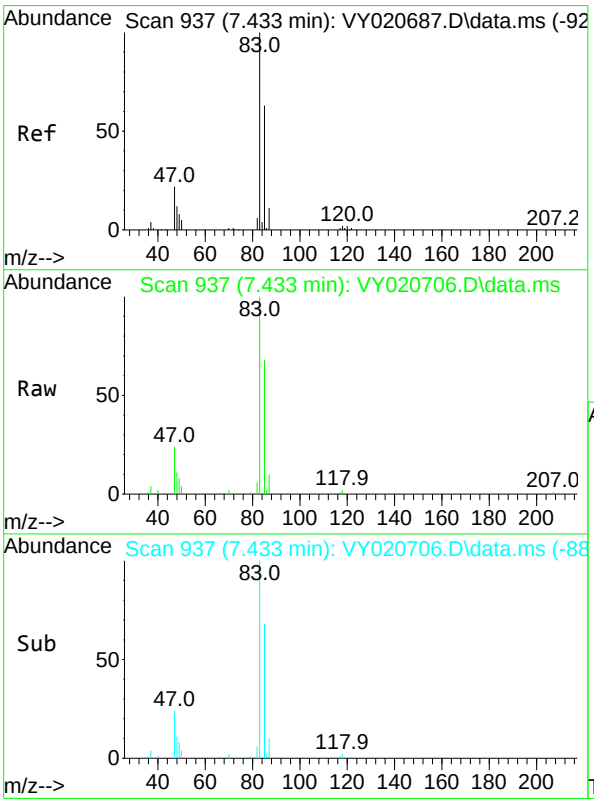

#29
Tetrahydrofuran
Concen: 22.956 ug/l
RT: 7.281 min Scan# 91
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 42 Resp: 2337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 64.4 | 47.4 | 71.0 |
| 71 | 51.5 | 42.8 | 64.2 |

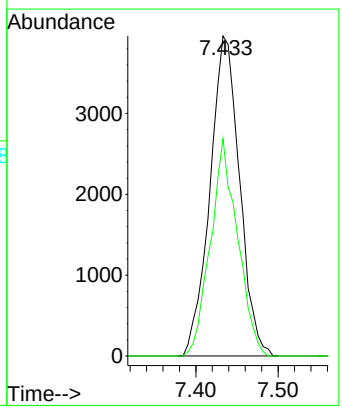


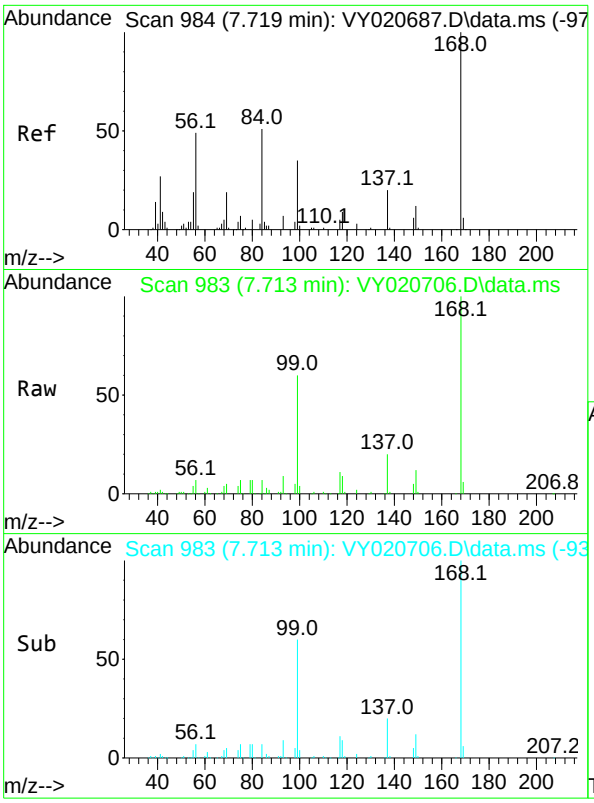




#30
Chloroform
Concen: 5.350 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 83 Resp: 9912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.9 | 50.2 | 75.2 |



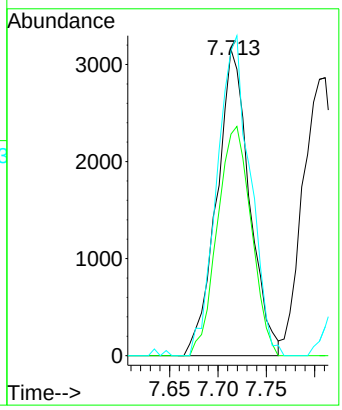


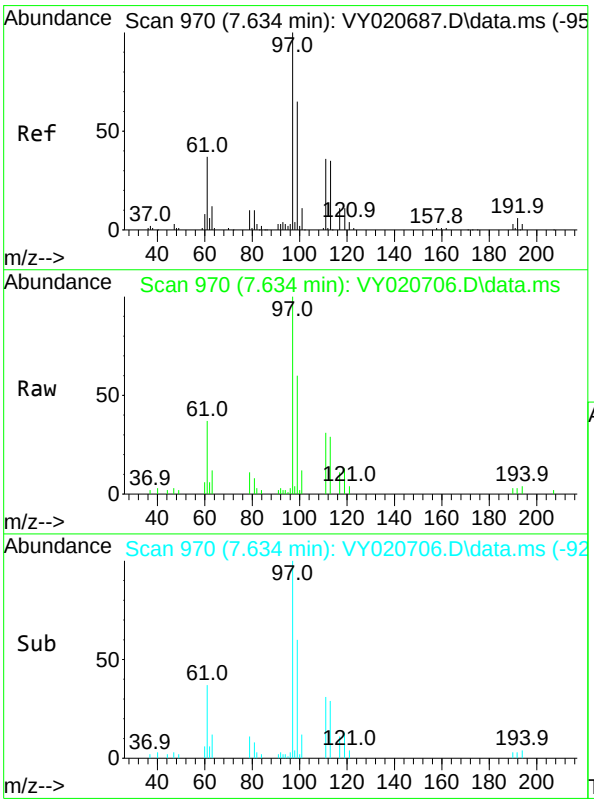

#31
Cyclohexane
Concen: 5.976 ug/l
RT: 7.713 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 7429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 72.4 | 31.3 | 46.9# |
| 84 | 99.5 | 83.9 | 125.9 |

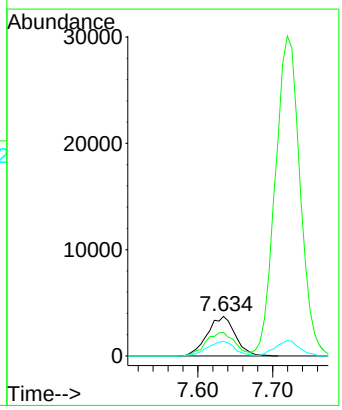


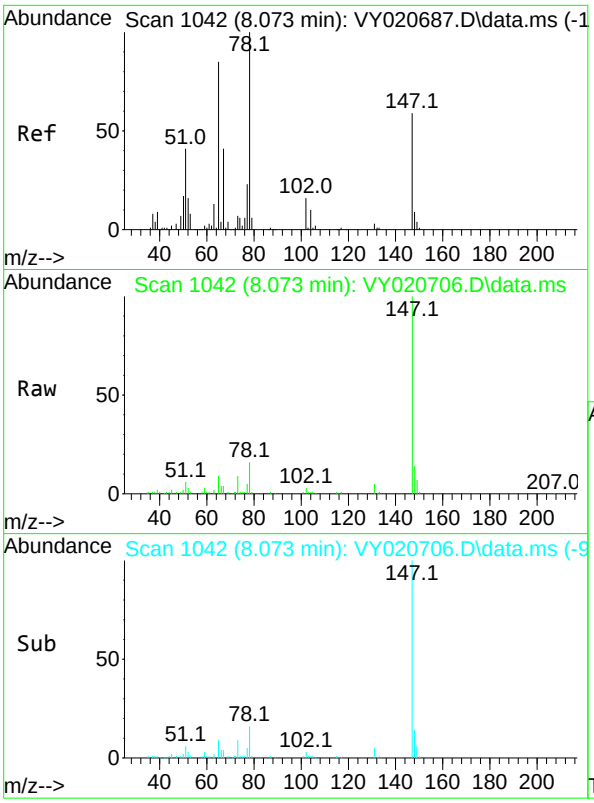




#32
1,1,1-Trichloroethane
Concen: 4.844 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 97 Resp: 9621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.6 | 51.0 | 76.6 |
| 61 | 36.3 | 30.0 | 45.0 |



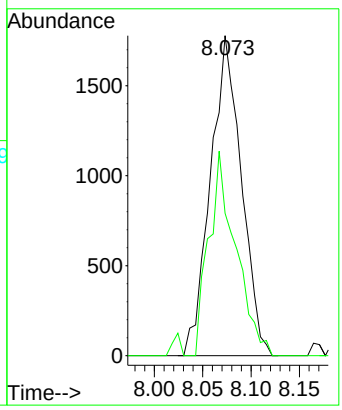


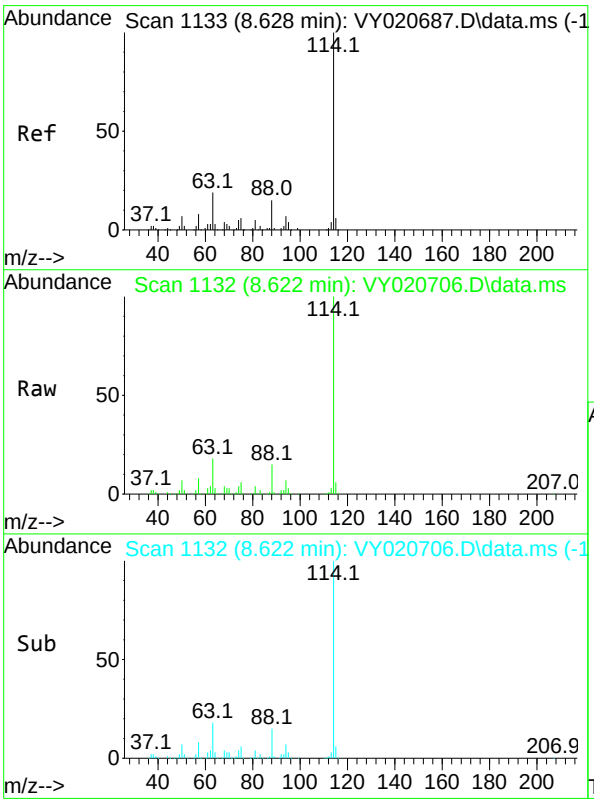

#33
1,2-Dichloroethane-d4
Concen: 4.087 ug/l
RT: 8.073 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 65 Resp: 3955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 55.7 | 0.0 | 98.0 |

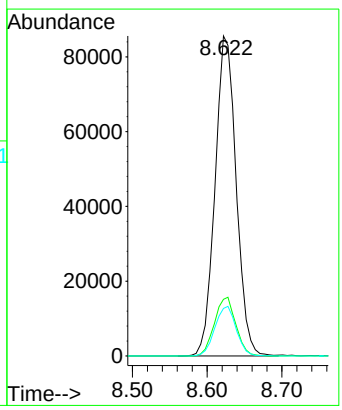


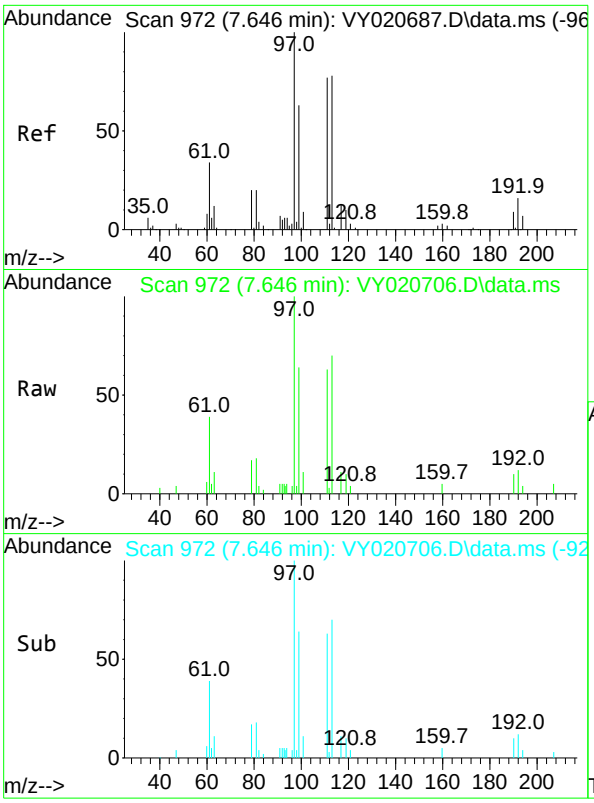




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:114 Resp: 168634

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.7 | 0.0 | 38.4 |
| 88 | 14.8 | 0.0 | 30.4 |



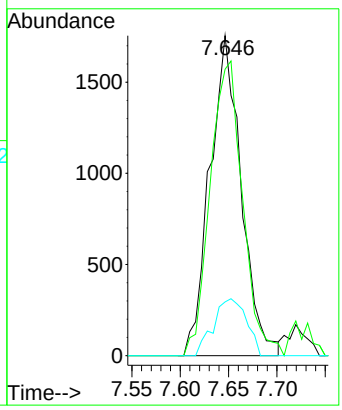


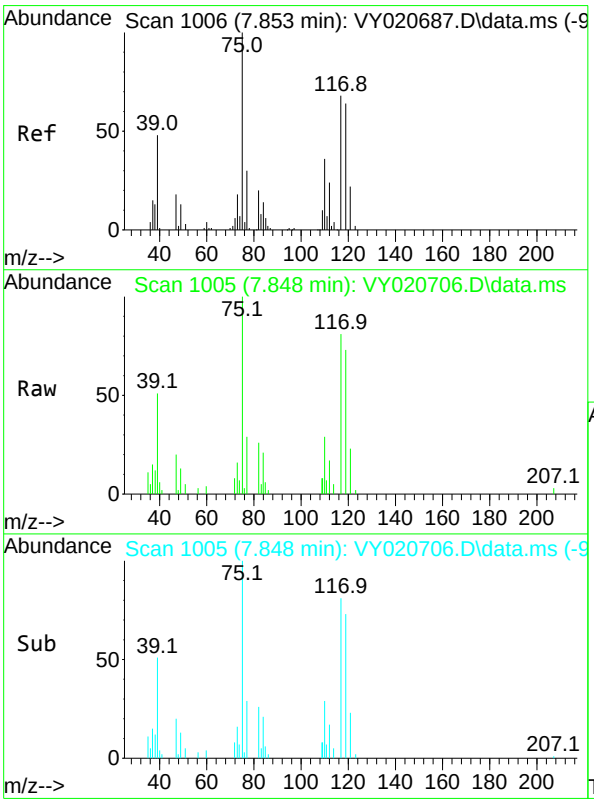

#35
Dibromofluoromethane
Concen: 4.270 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:113 Resp: 3966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 95.0 | 79.8 | 119.8 |
| 192 | 18.7 | 17.0 | 25.6 |

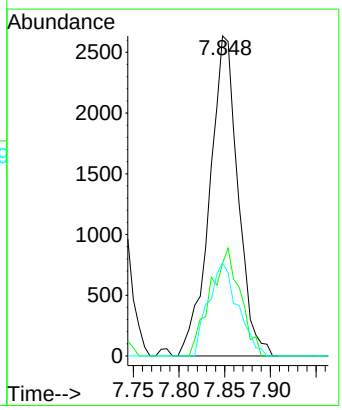


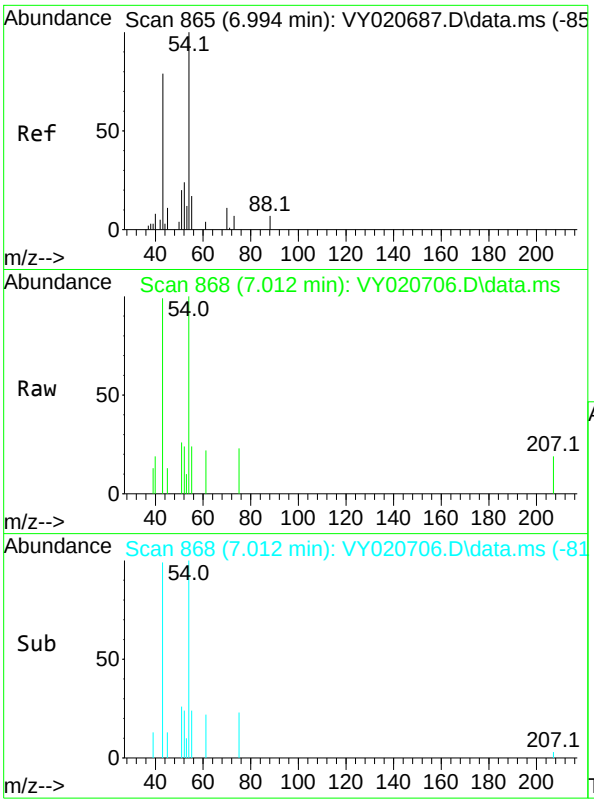




#36
1,1-Dichloropropene
Concen: 4.633 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. -0.005 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 75 Resp: 5685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.6 | 19.6 | 58.7 |
| 77 | 30.2 | 25.1 | 37.7 |



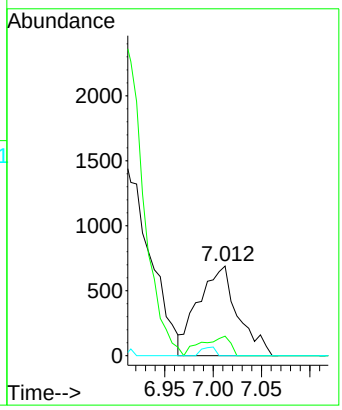


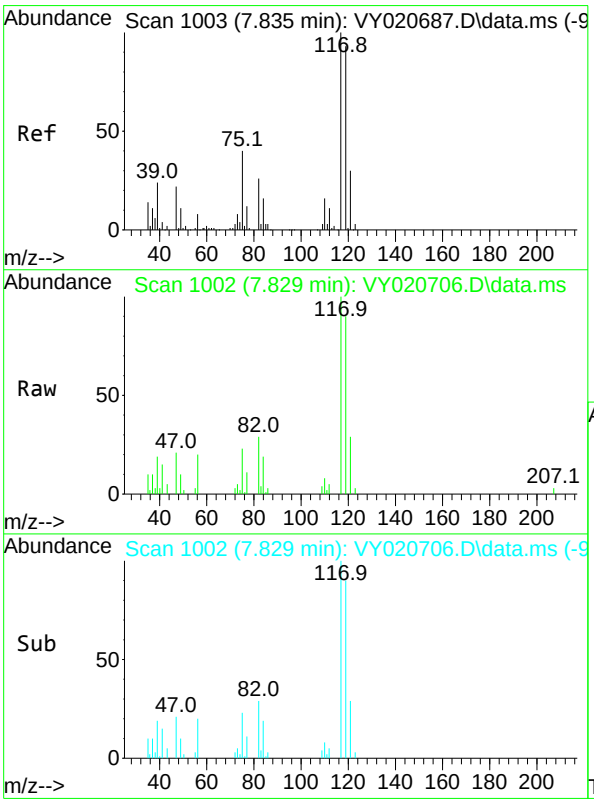

#37
Ethyl Acetate
Concen: 4.825 ug/l
RT: 7.012 min Scan# 8
Delta R.T. 0.018 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 1951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.8 | 11.7 | 17.5 |
| 70 | 3.3 | 11.0 | 16.4# |

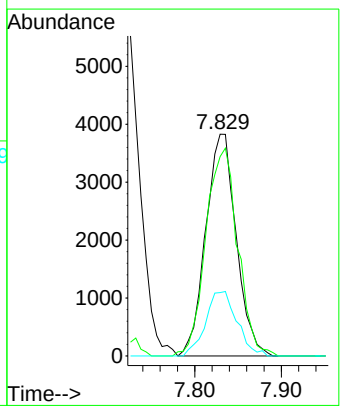


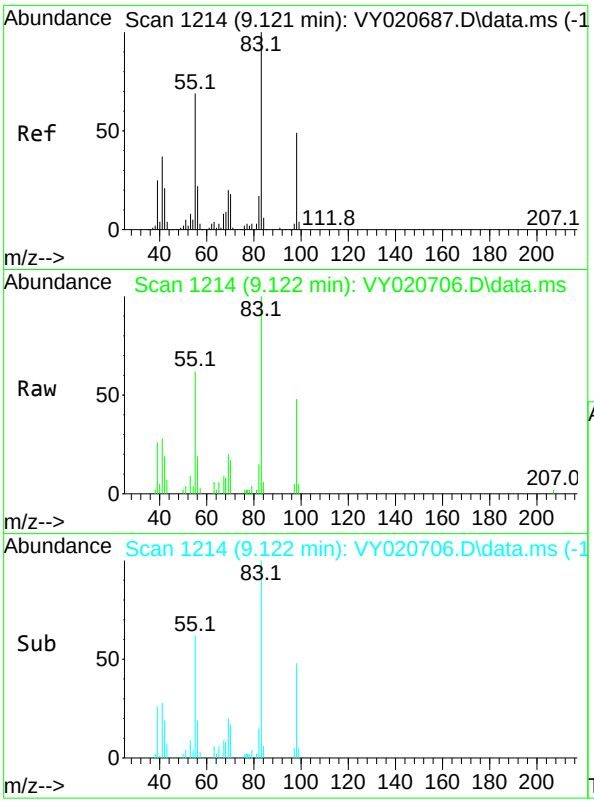




#38
Carbon Tetrachloride
Concen: 4.638 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:117 Resp: 9371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 89.9 | 74.4 | 111.6 |
| 121 | 28.6 | 24.2 | 36.2 |



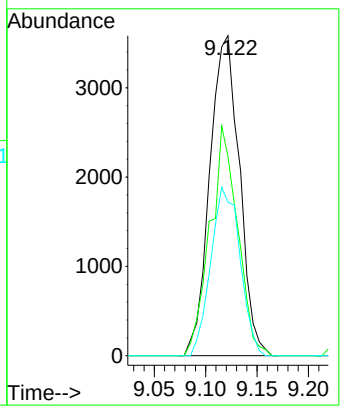


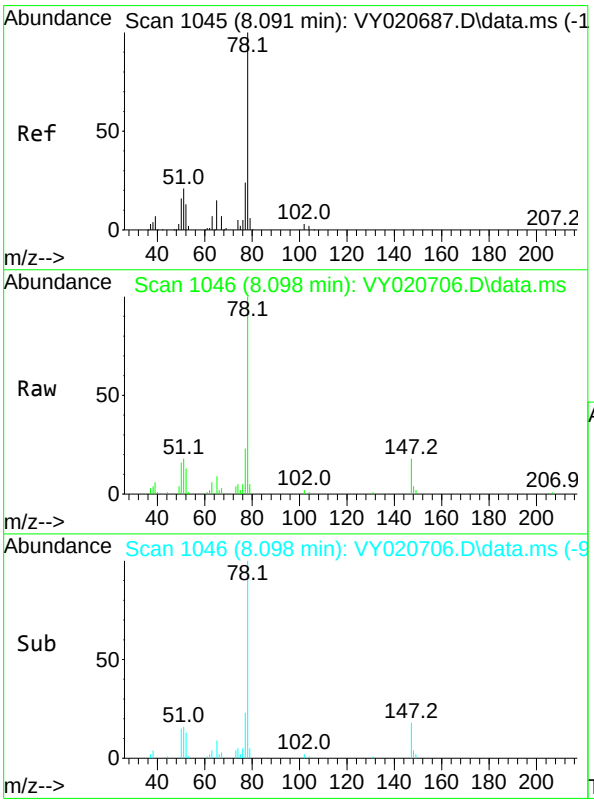

#39
Methylcyclohexane
Concen: 4.576 ug/l
RT: 9.122 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 7196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 62.3 | 55.0 | 82.4 |
| 98 | 48.0 | 39.0 | 58.6 |

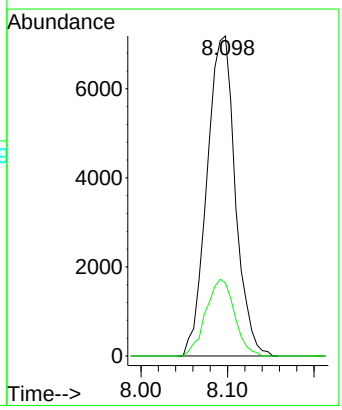


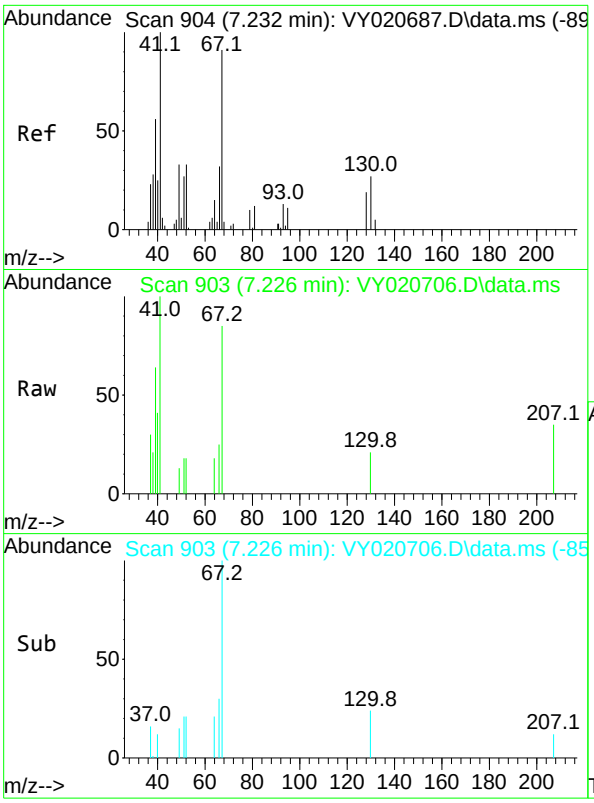




#40
Benzene
Concen: 4.595 ug/l
RT: 8.098 min Scan# 1046
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 78 Resp: 16340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.8 | 19.2 | 28.8 |



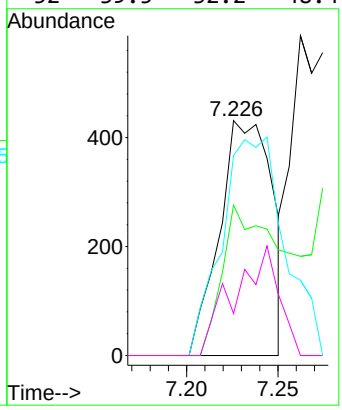


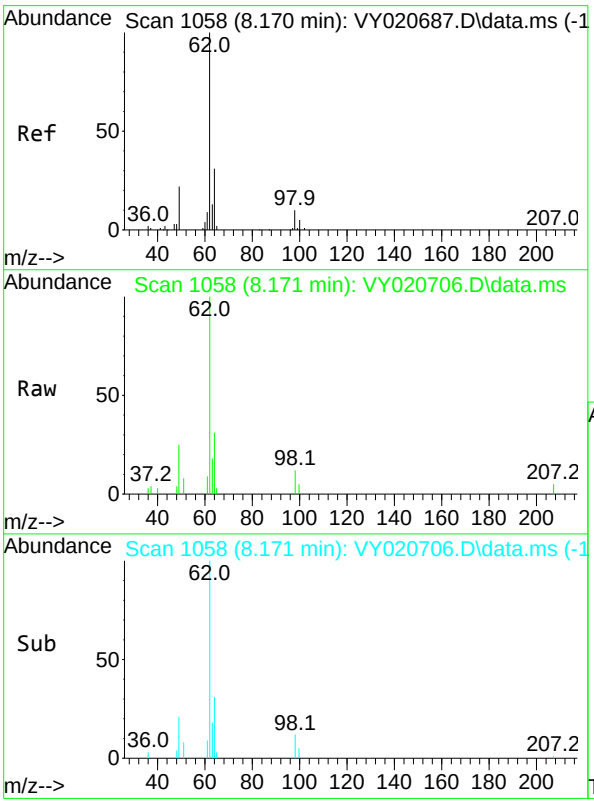

#41
Methacrylonitrile
Concen: 4.235 ug/l
RT: 7.226 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 41 Resp: 865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 74.3 | 46.6 | 70.0# |
| 67 | 110.8 | 74.7 | 112.1 |
| 52 | 39.5 | 32.2 | 48.4 |

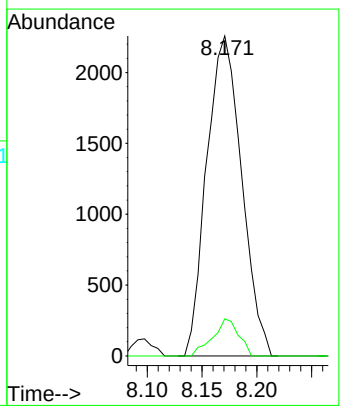


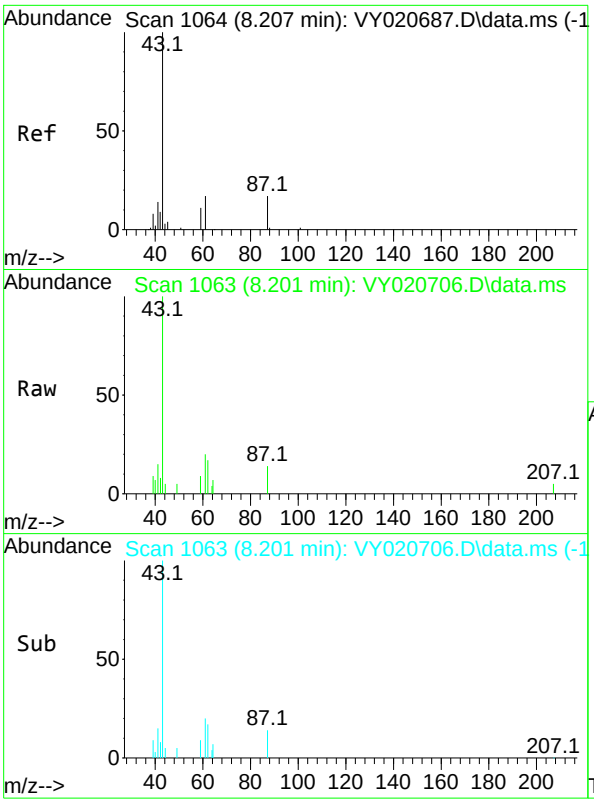




#42
1,2-Dichloroethane
Concen: 4.396 ug/l
RT: 8.171 min Scan# 1058
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 62 Resp: 5012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.6 | 0.0 | 16.6 |



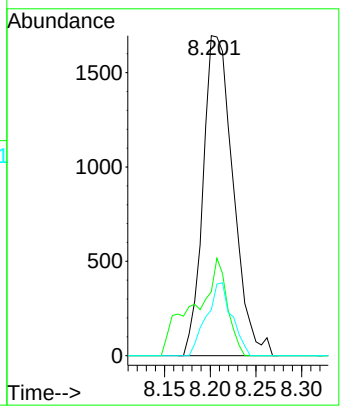


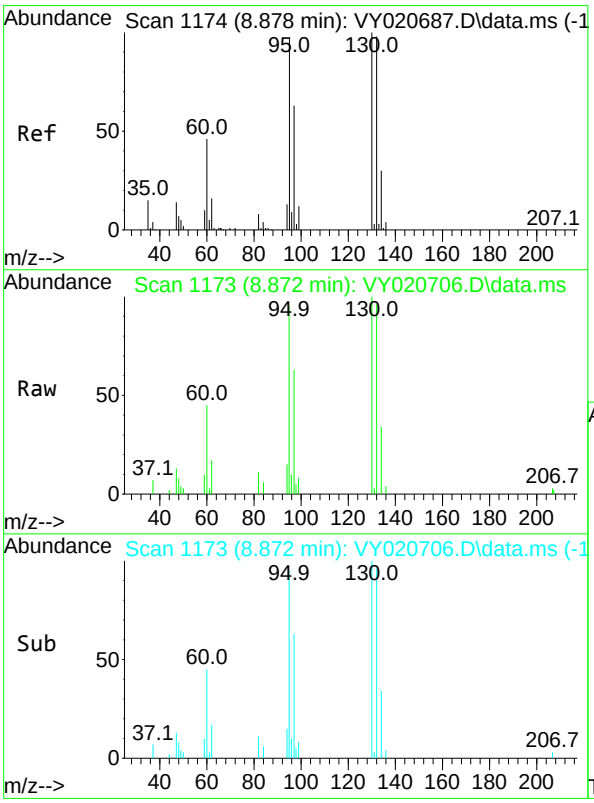

#43
Isopropyl Acetate
Concen: 4.500 ug/l
RT: 8.201 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 3867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 33.5 | 27.0 | 40.4 |
| 87 | 19.1 | 14.2 | 21.4 |

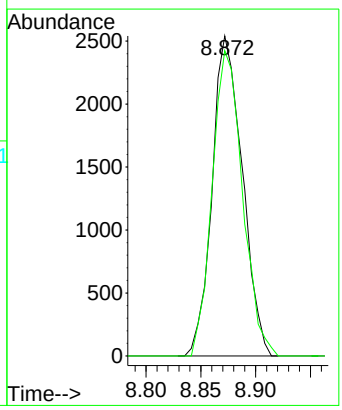


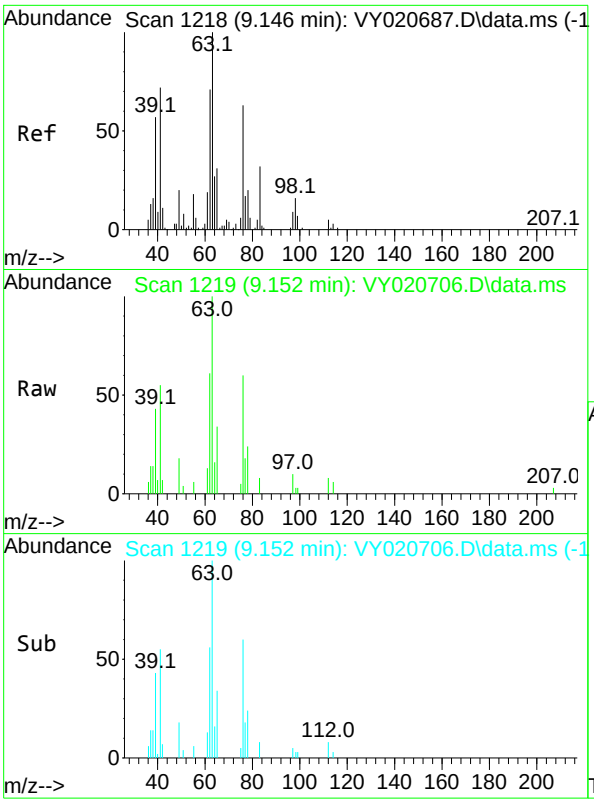




#44
Trichloroethene
Concen: 4.578 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:130 Resp: 4862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.4 | 0.0 | 194.8 |



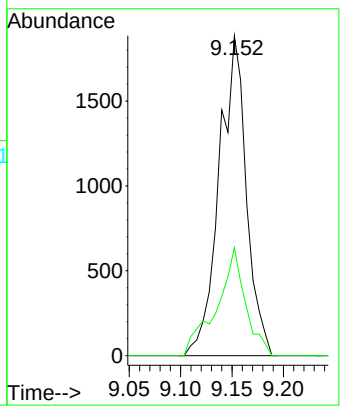


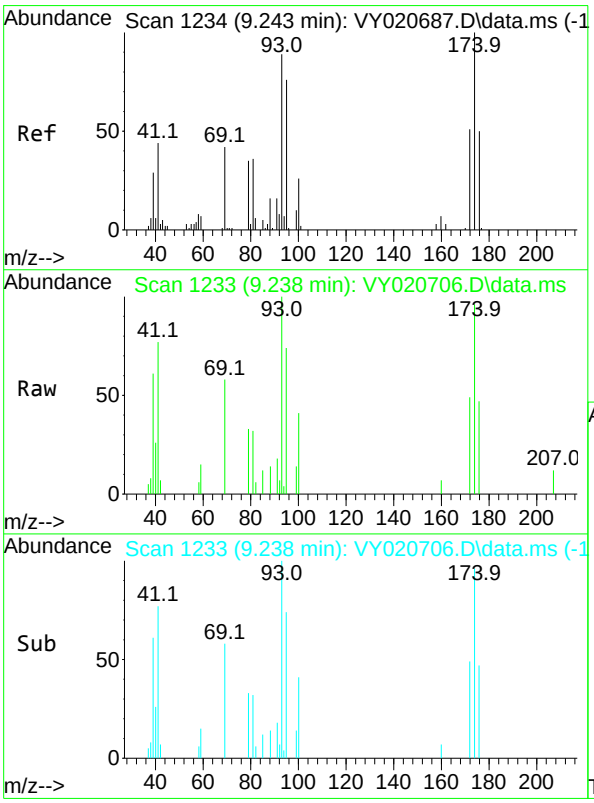

#45
1,2-Dichloropropane
Concen: 4.810 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 63 Resp: 3462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.7 | 24.6 | 36.8 |

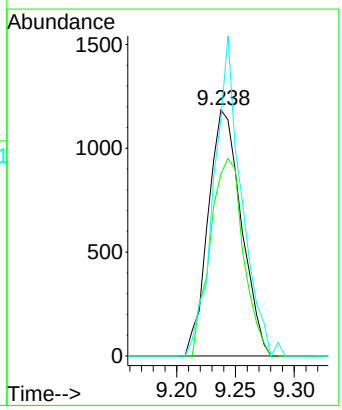


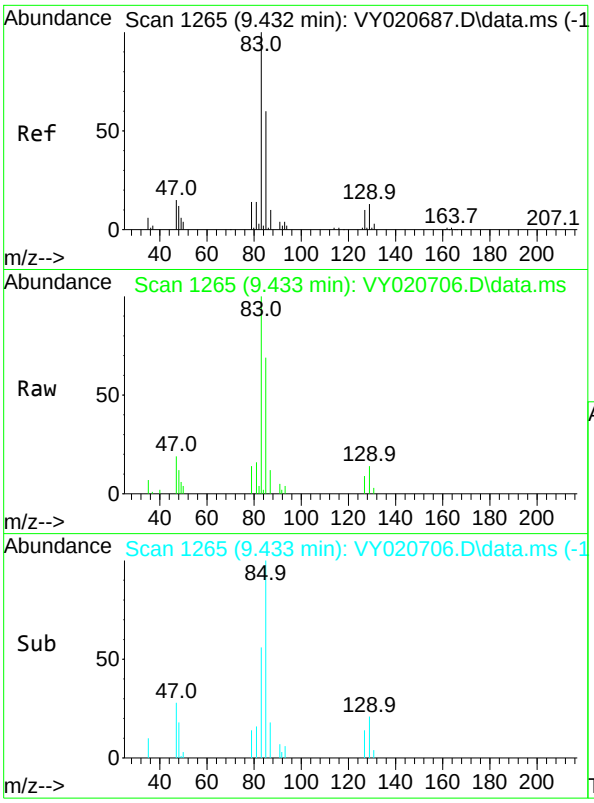




#46
Dibromomethane
Concen: 4.678 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.005 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 93 Resp: 2330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.4 | 67.8 | 101.8 |
| 174 | 108.5 | 89.4 | 134.0 |



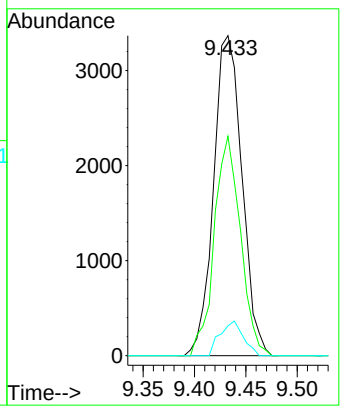


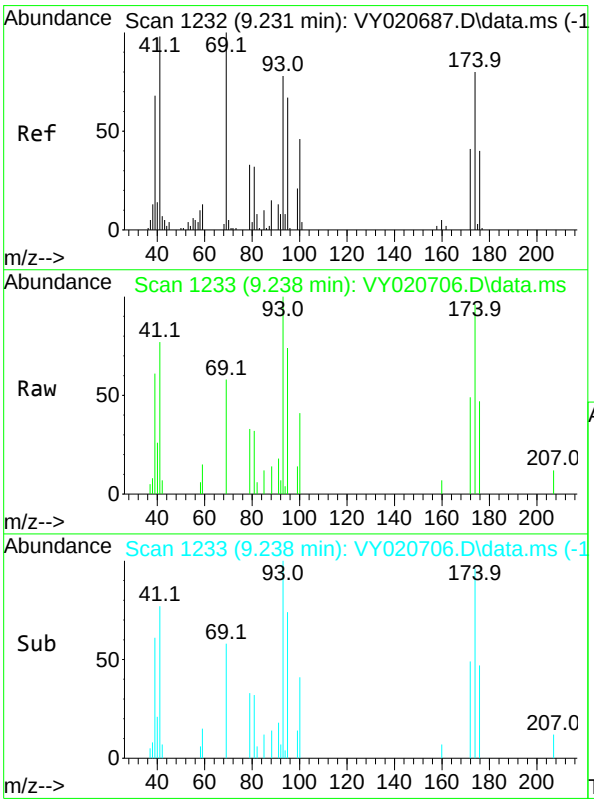

#47
Bromodichloromethane
Concen: 4.581 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 6469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.5 | 47.6 | 71.4 |
| 127 | 9.3 | 7.9 | 11.9 |

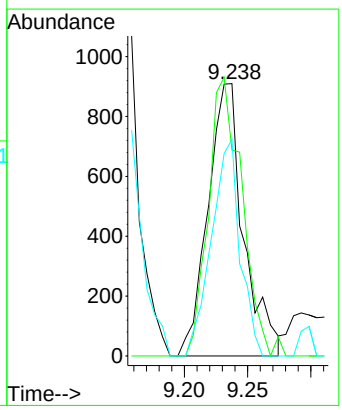


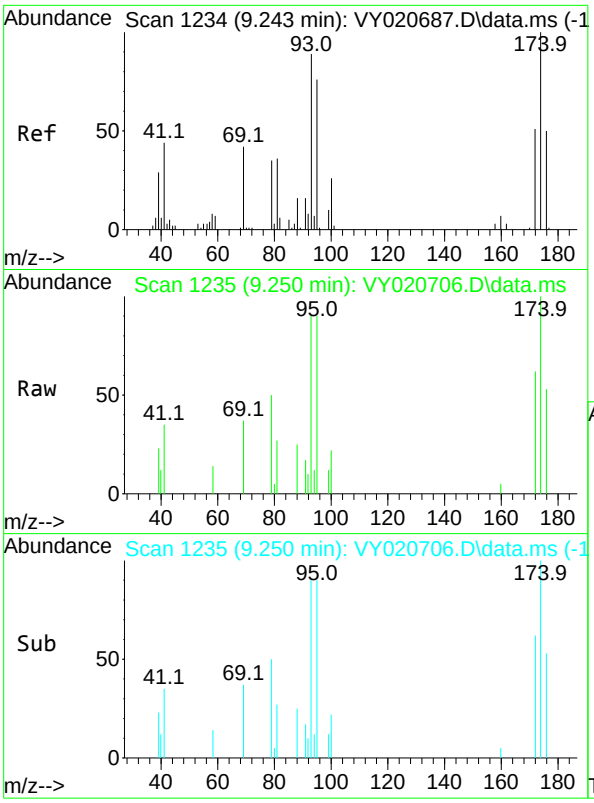




#48
Methyl methacrylate
Concen: 4.445 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 41 Resp: 1784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.5 | 83.1 | 124.7 |
| 39 | 63.7 | 57.3 | 85.9 |



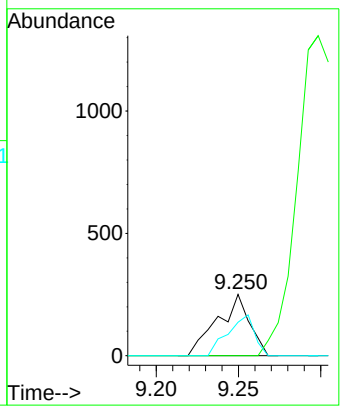


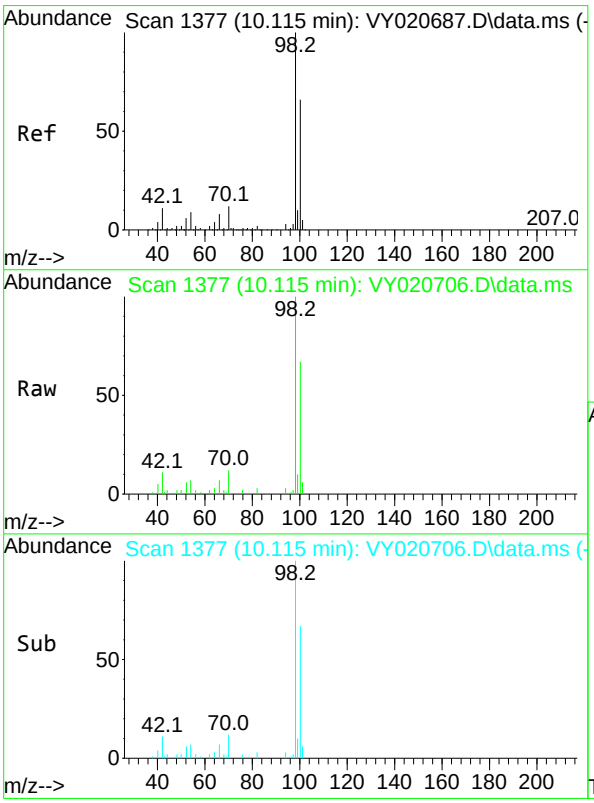

#49
1,4-Dioxane
Concen: 72.090 ug/l
RT: 9.250 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 88 Resp: 342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 0.0 | 22.1 | 33.1# |
| 58 | 55.0 | 46.7 | 70.1 |

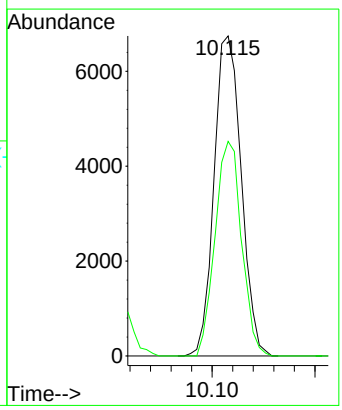


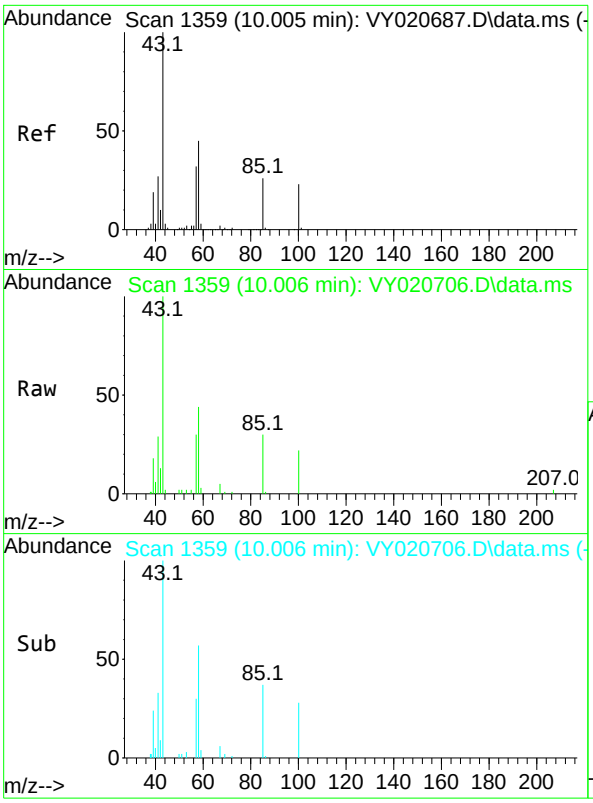




#50
Toluene-d8
Concen: 4.957 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 98 Resp: 12366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.2 | 78.4 |



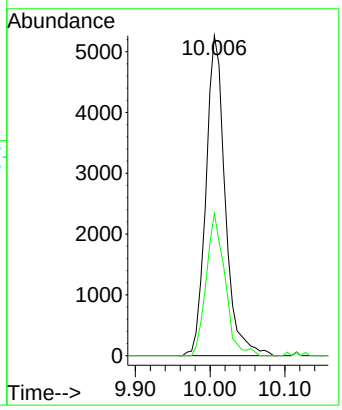


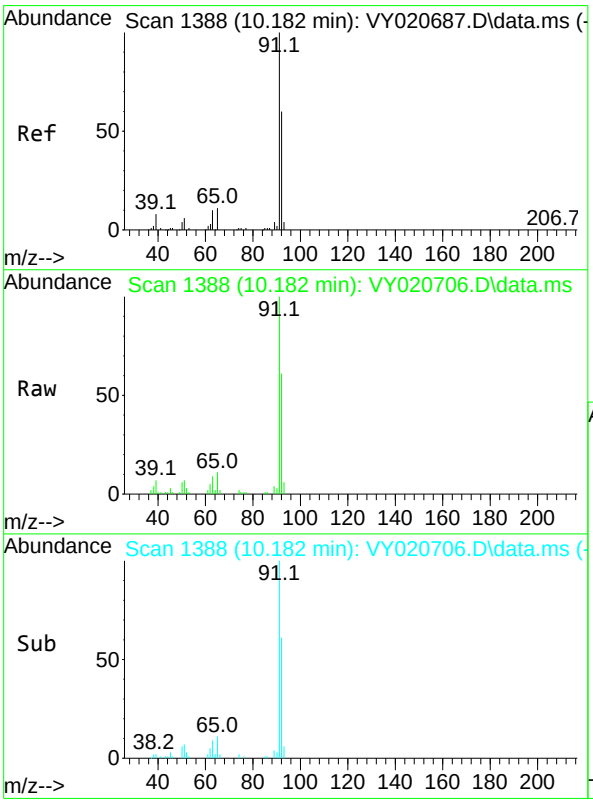

#51
4-Methyl-2-Pentanone
Concen: 22.620 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 9383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.3 | 35.1 | 52.7 |

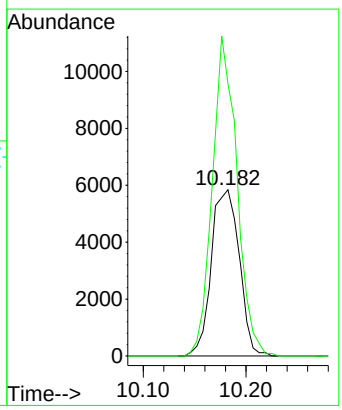


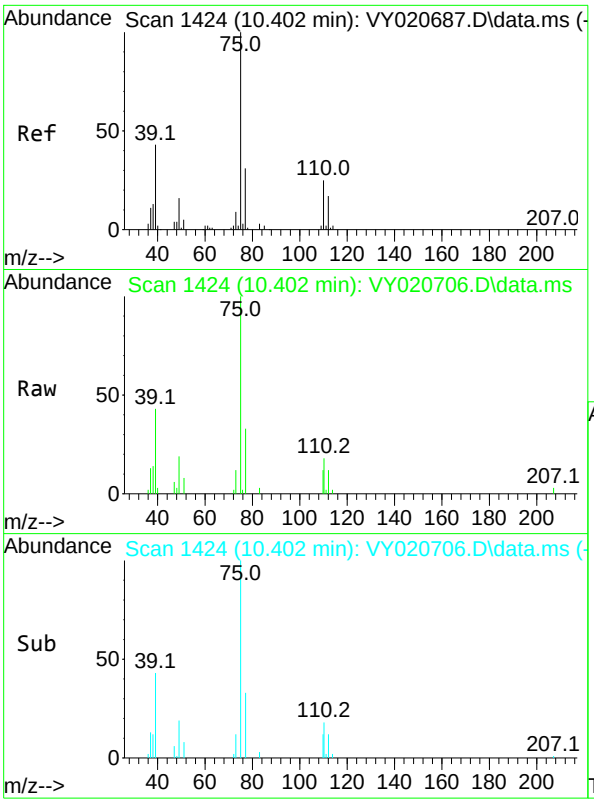




#52
Toluene
Concen: 4.526 ug/l
RT: 10.182 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 92 Resp: 11031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.0 | 137.7 | 206.5 |



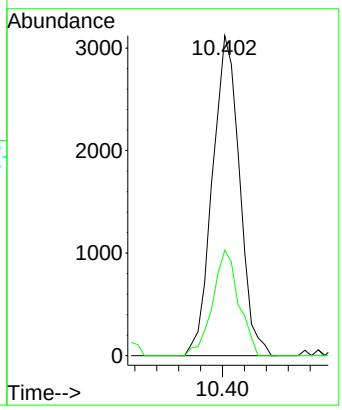


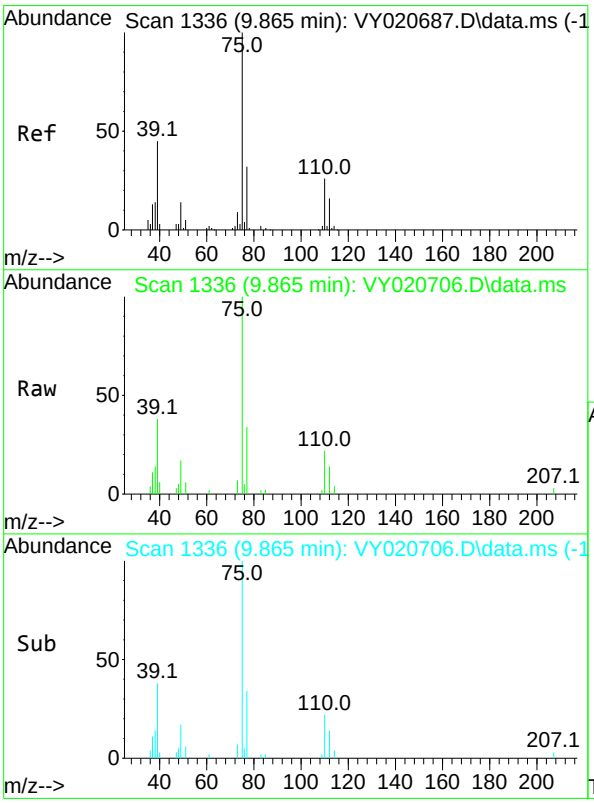

#53
t-1,3-Dichloropropene
Concen: 4.320 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 75 Resp: 5357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.1 | 37.7 |

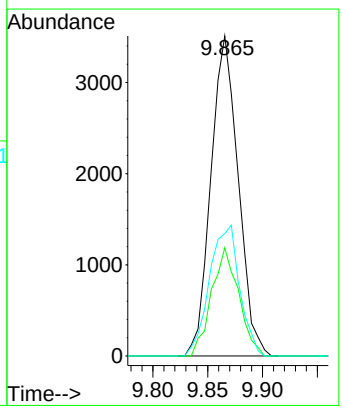


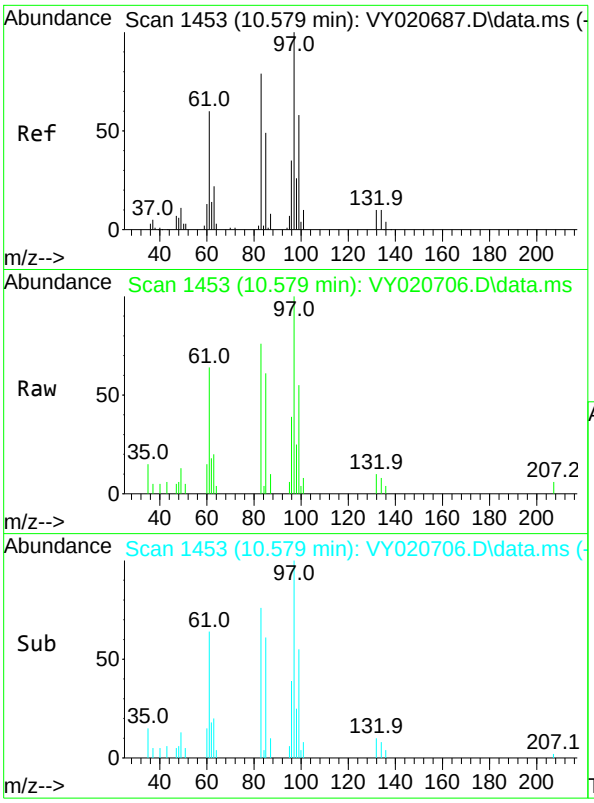




#54
cis-1,3-Dichloropropene
Concen: 4.481 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 75 Resp: 6091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.8 | 25.6 | 38.4 |
| 39 | 38.3 | 36.2 | 54.2 |



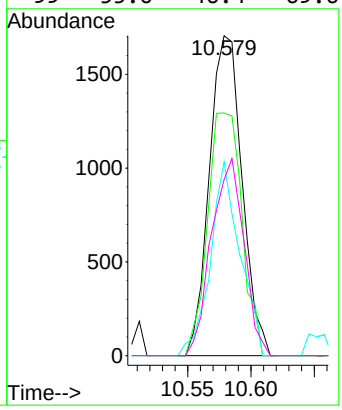


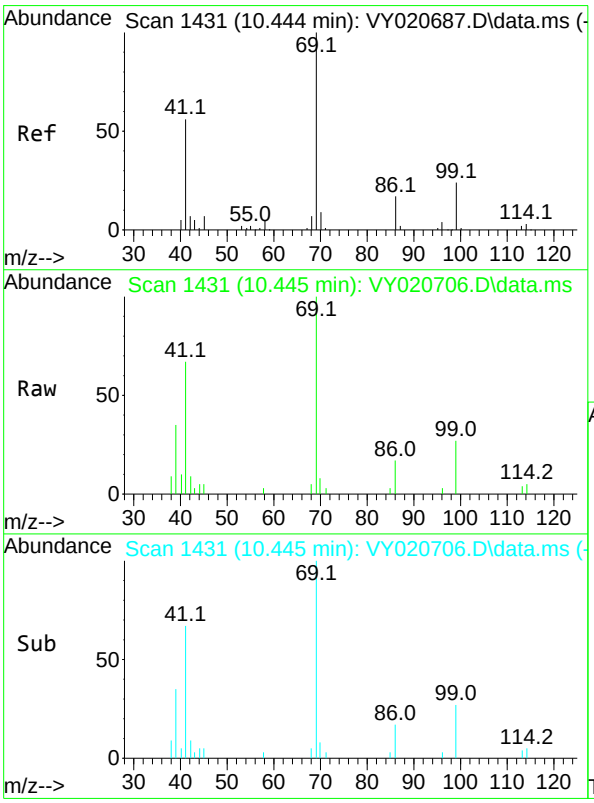

#55
1,1,2-Trichloroethane
Concen: 4.826 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 97 Resp: 3068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 75.8 | 63.1 | 94.7 |
| 85 | 60.6 | 39.5 | 59.3# |
| 99 | 55.0 | 46.4 | 69.6 |

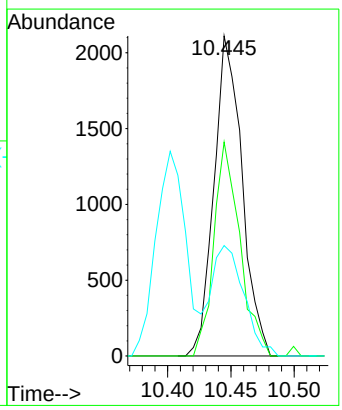


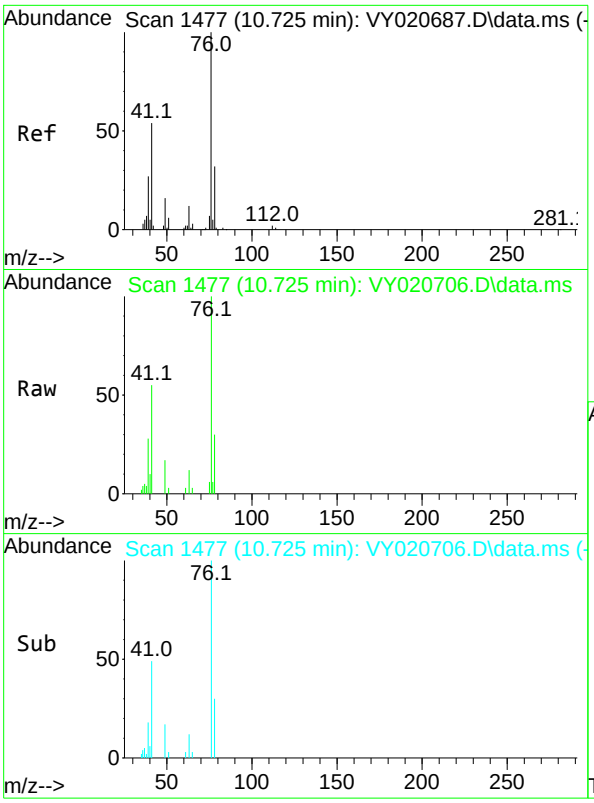




#56
Ethyl methacrylate
Concen: 3.891 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 69 Resp: 3250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 62.1 | 43.8 | 65.6 |
| 39 | 39.8 | 32.0 | 48.0 |



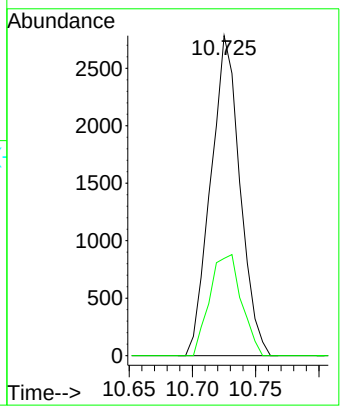


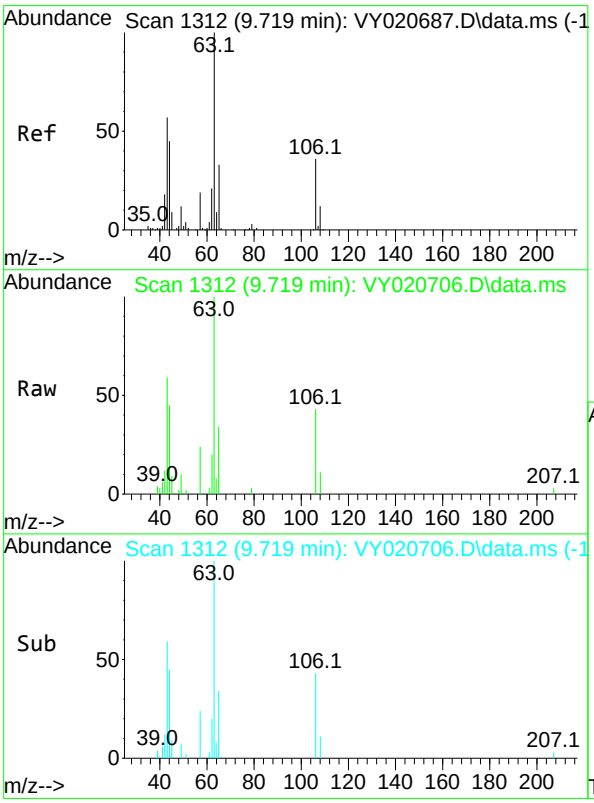

#57
1,3-Dichloropropane
Concen: 4.337 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 76 Resp: 4475

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 34.2 | 25.0 | 37.6 |

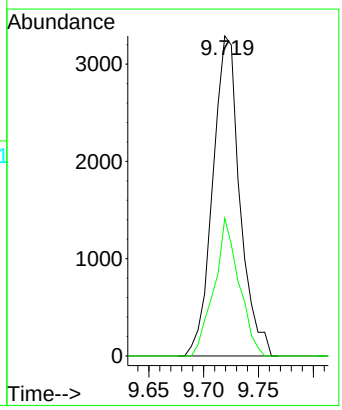


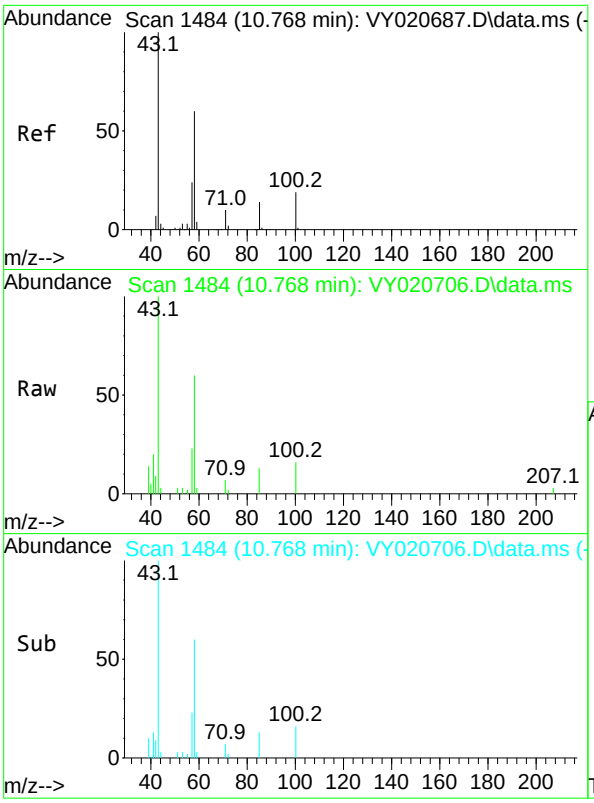




#58
2-Chloroethyl Vinyl ether
Concen: 19.451 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 63 Resp: 5665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 39.4 | 29.1 | 43.7 |



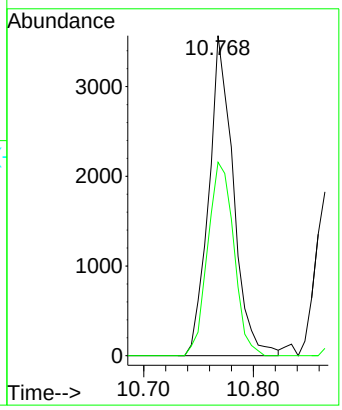


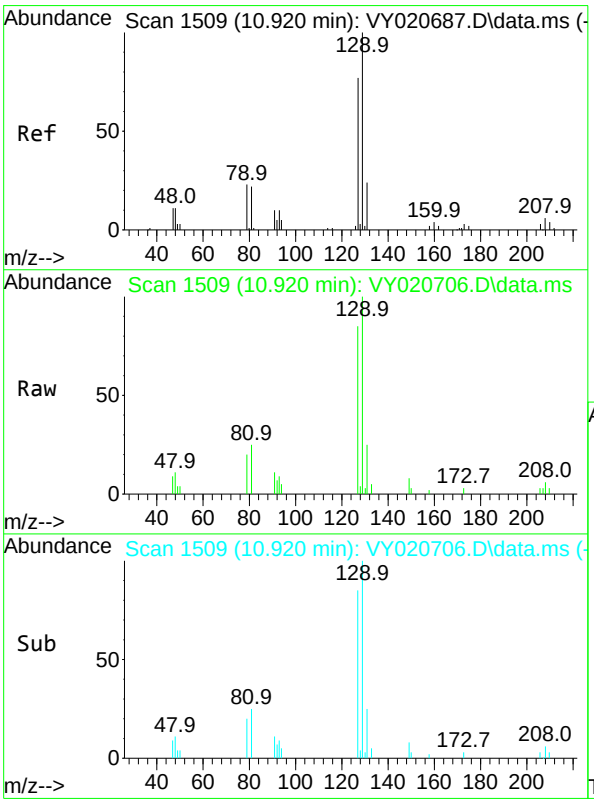

#59
2-Hexanone
Concen: 20.301 ug/l
RT: 10.768 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 5560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 64.2 | 30.1 | 90.5 |

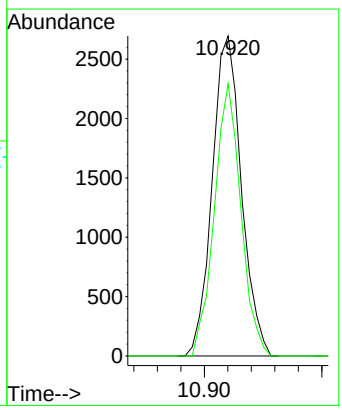


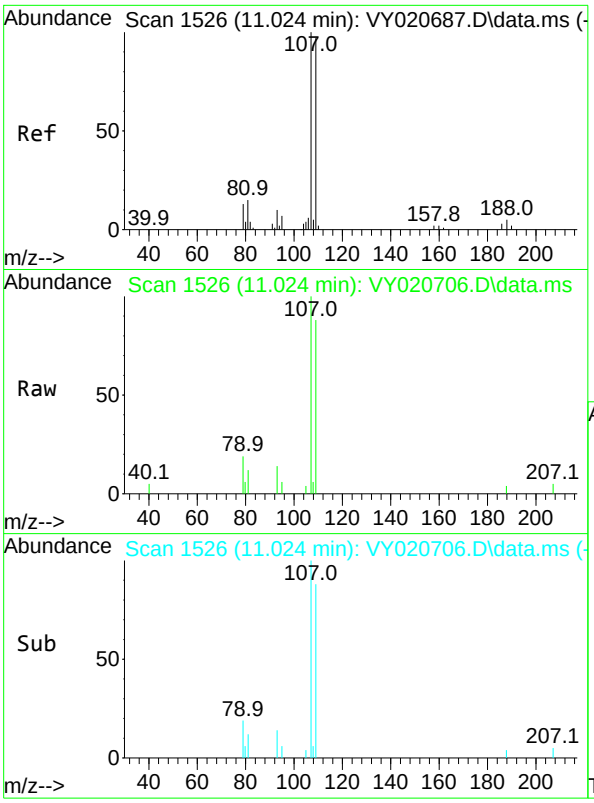




#60
Dibromochloromethane
Concen: 4.532 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:129 Resp: 4656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.5 | 115.5 |



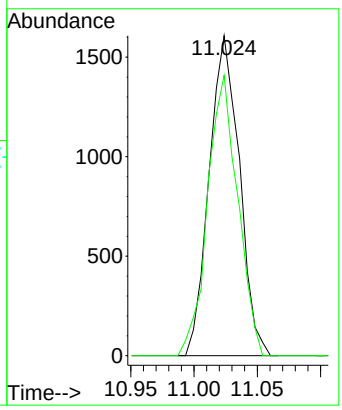


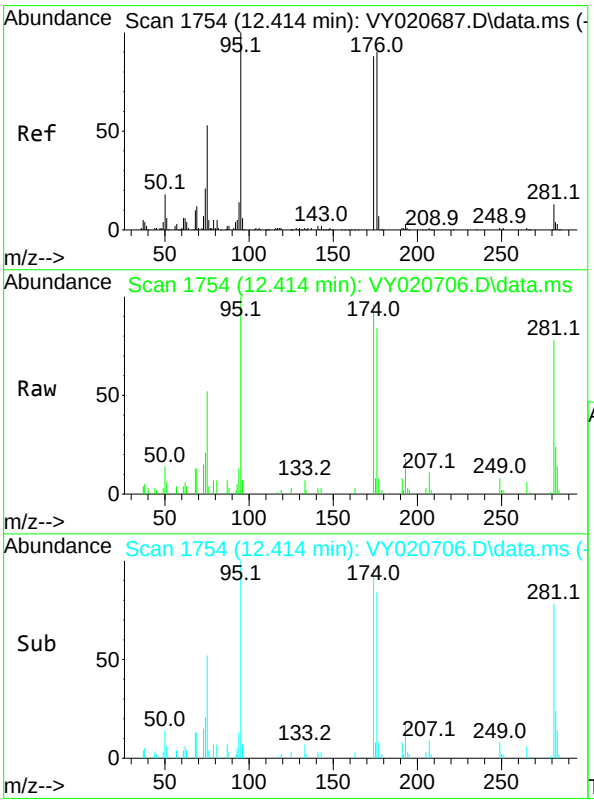

#61
1,2-Dibromoethane
Concen: 4.467 ug/l
RT: 11.024 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:107 Resp: 2672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 87.6 | 75.5 | 113.3 |

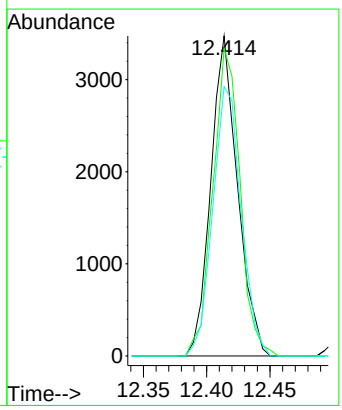


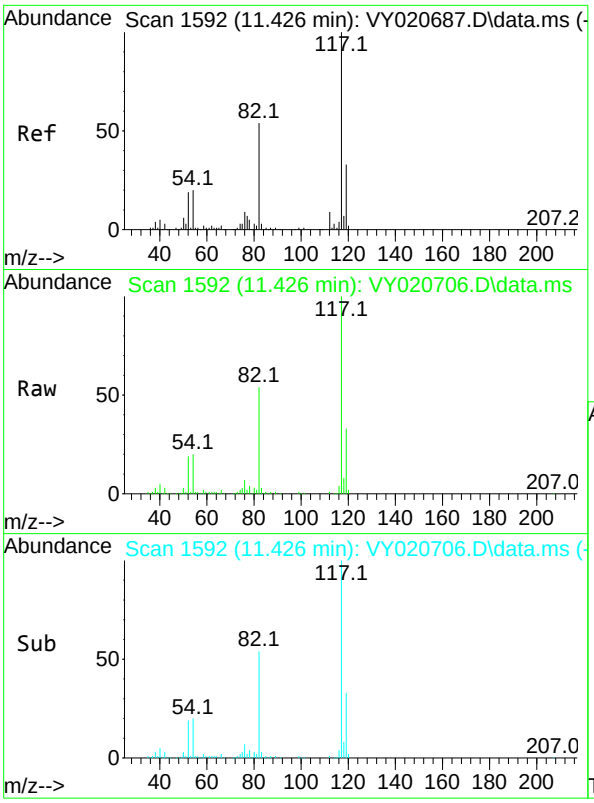




#62
4-Bromofluorobenzene
Concen: 4.139 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 95 Resp: 5109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 97.6 | 0.0 | 179.2 |
| 176 | 89.2 | 0.0 | 179.8 |



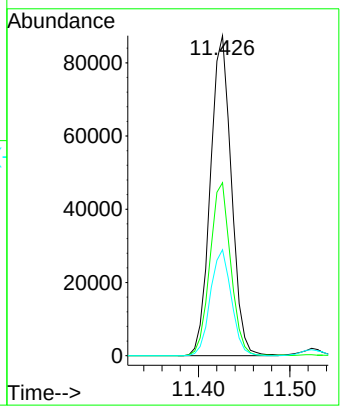


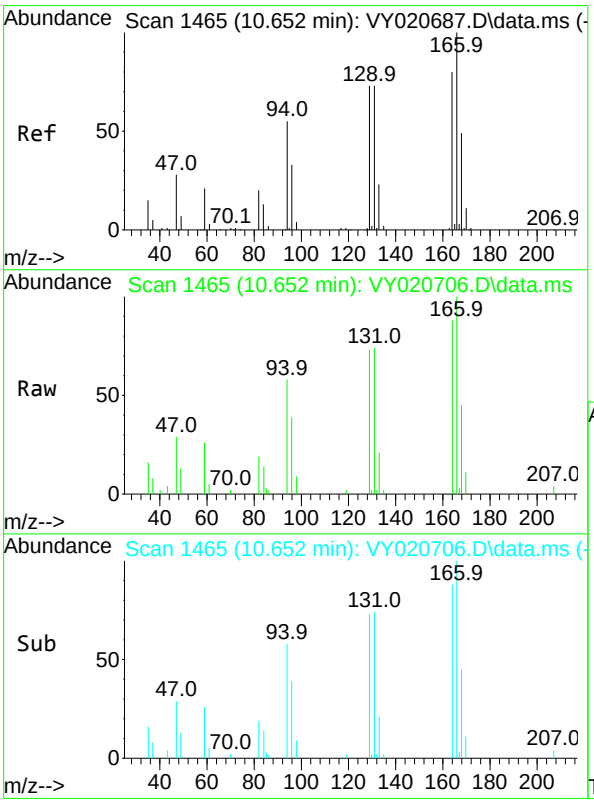

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:117 Resp: 139342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 54.0 | 43.4 | 65.2 |
| 119 | 33.1 | 26.6 | 39.8 |

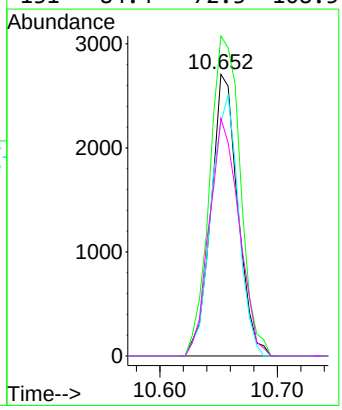


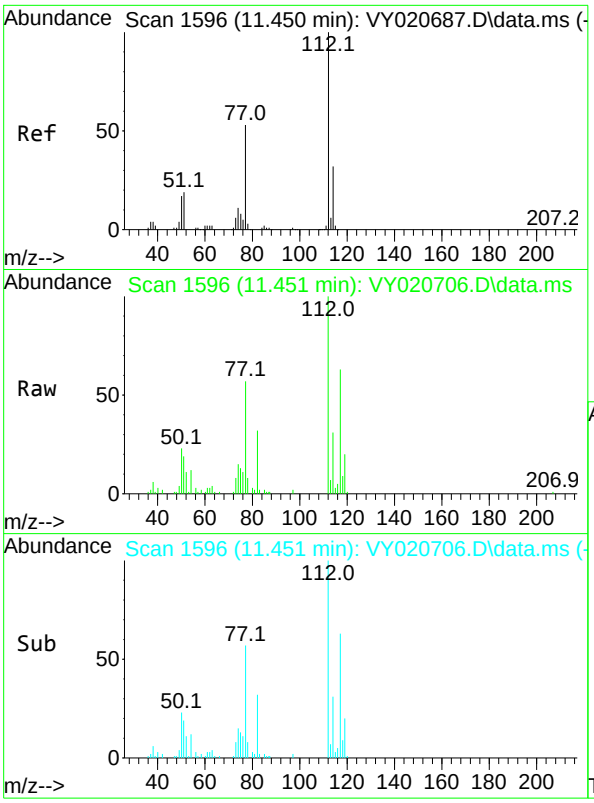




#64
Tetrachloroethene
Concen: 4.511 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:164 Resp: 4294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 113.6 | 99.6 | 149.4 |
| 129 | 83.0 | 73.0 | 109.4 |
| 131 | 84.4 | 72.3 | 108.5 |



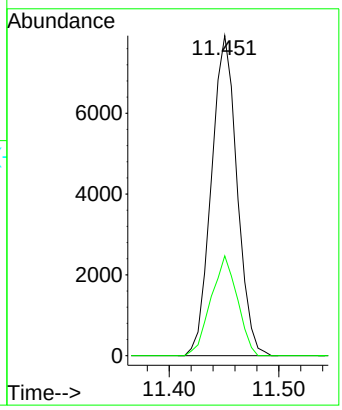


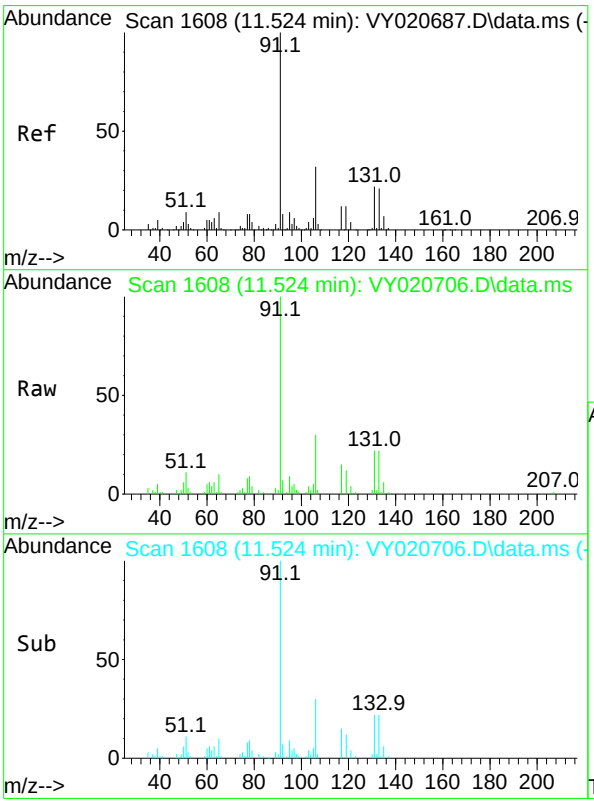

#65
Chlorobenzene
Concen: 4.724 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:112 Resp: 12888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.2 | 25.4 | 38.0 |

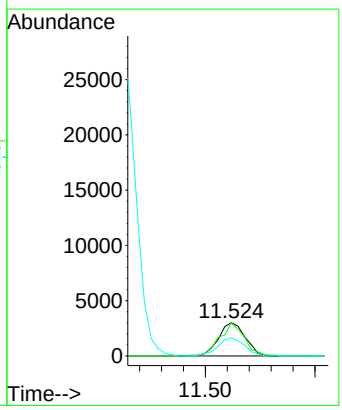


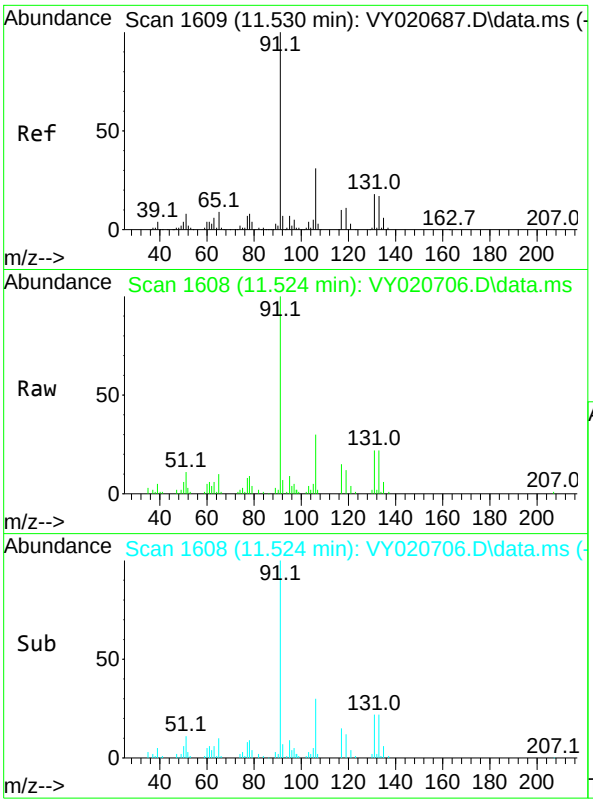




#66
1,1,1,2-Tetrachloroethane
Concen: 4.806 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:131 Resp: 5080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 92.2 | 48.6 | 145.9 |
| 119 | 54.4 | 28.4 | 85.3 |



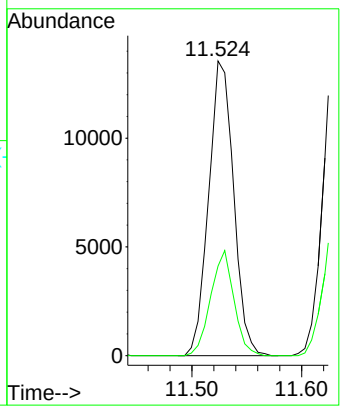


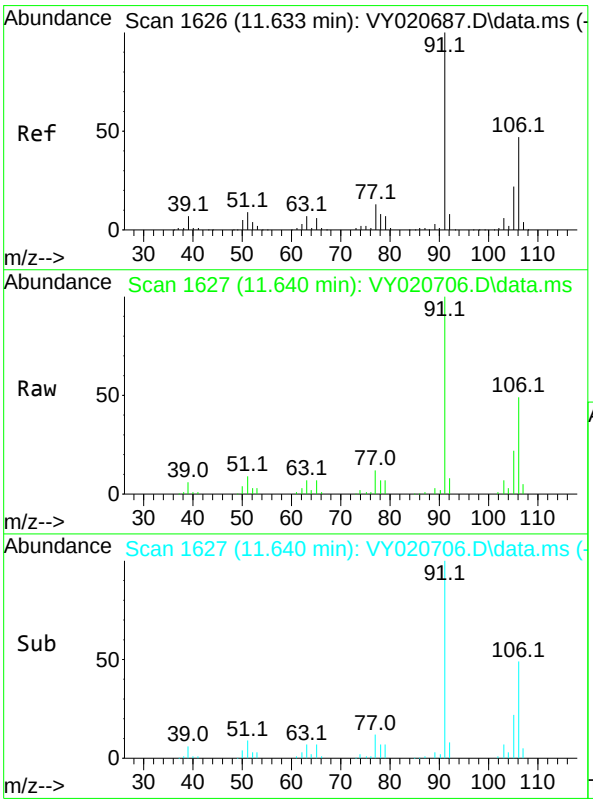

#67
Ethyl Benzene
Concen: 4.499 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 21456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.4 | 24.5 | 36.7 |

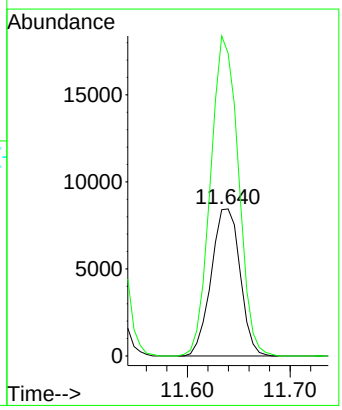


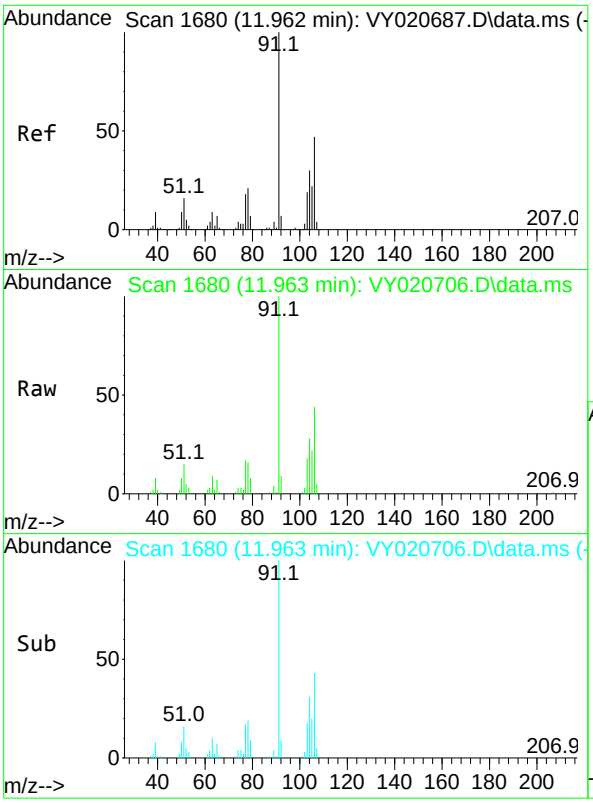




#68
m/p-Xylenes
Concen: 9.042 ug/l
RT: 11.640 min Scan# 1627
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:106 Resp: 16447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.6 | 166.6 | 250.0 |



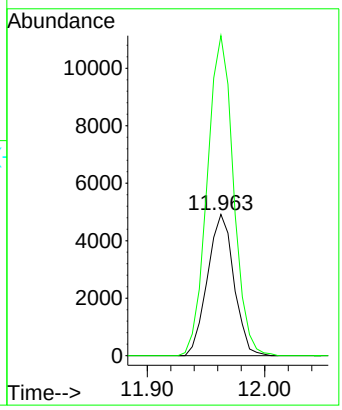


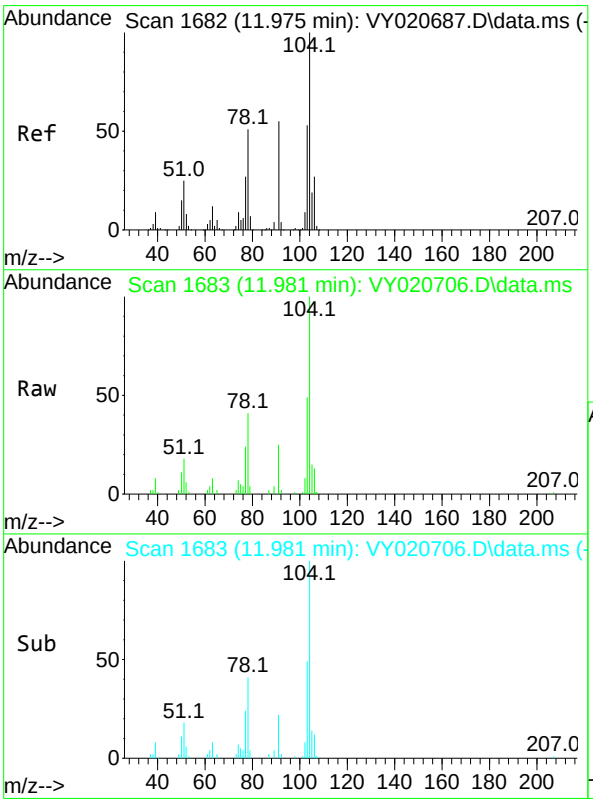

#69
o-Xylene
Concen: 4.425 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:106 Resp: 7691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 224.9 | 108.6 | 325.8 |

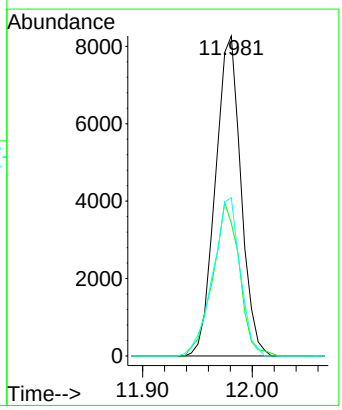


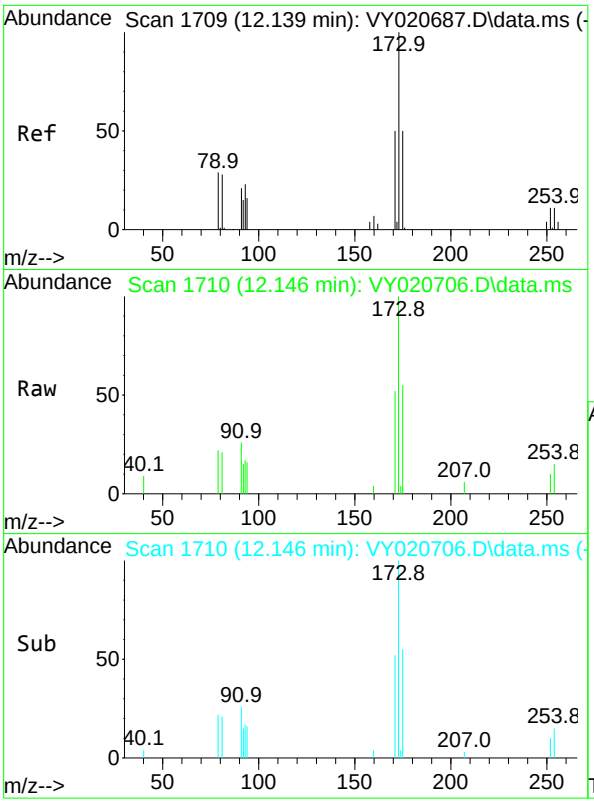




#70
Styrene
Concen: 4.577 ug/l
RT: 11.981 min Scan# 1683
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:104 Resp: 13353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.1 | 43.0 | 64.4 |
| 103 | 52.7 | 44.4 | 66.6 |



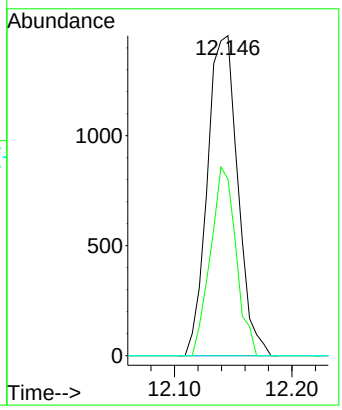


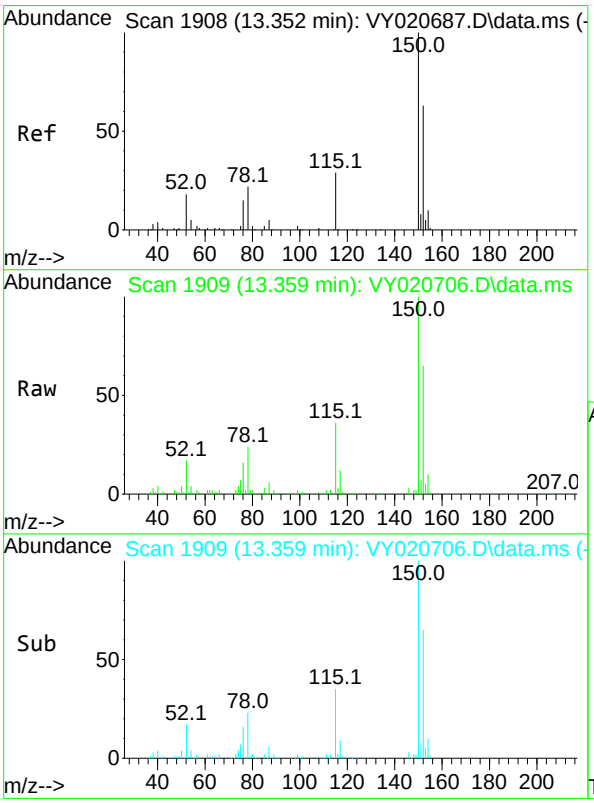

#71
Bromoform
Concen: 4.308 ug/l
RT: 12.146 min Scan# 1
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:173 Resp: 2618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.5 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

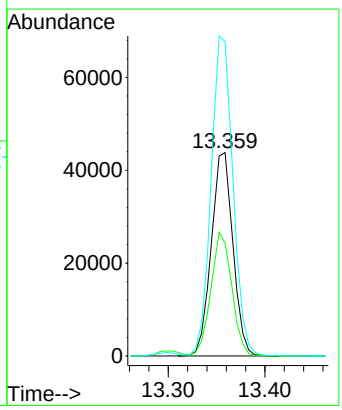


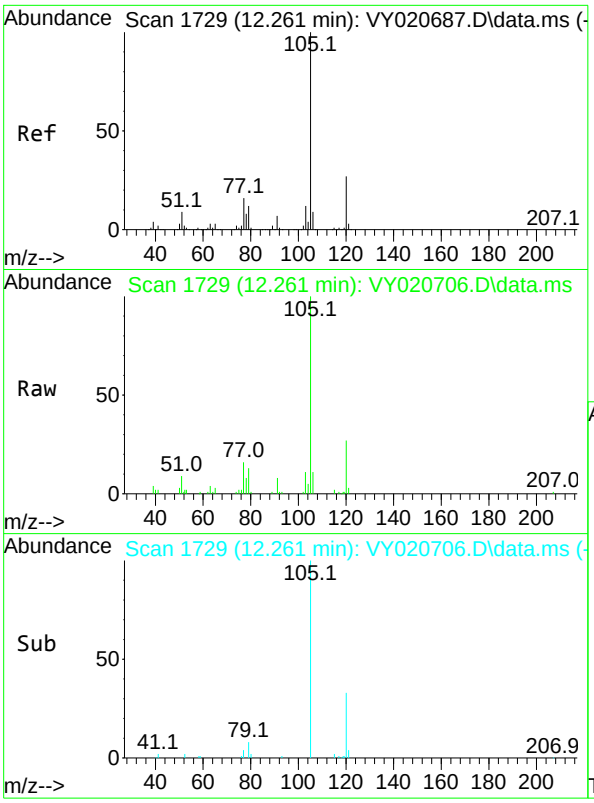




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.359 min Scan# 1909
Delta R.T. 0.007 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:152 Resp: 68108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.6 | 30.3 | 90.9 |
| 150 | 158.9 | 0.0 | 349.0 |



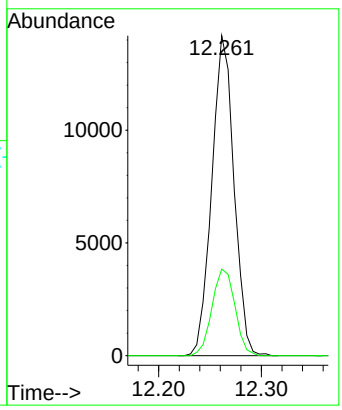


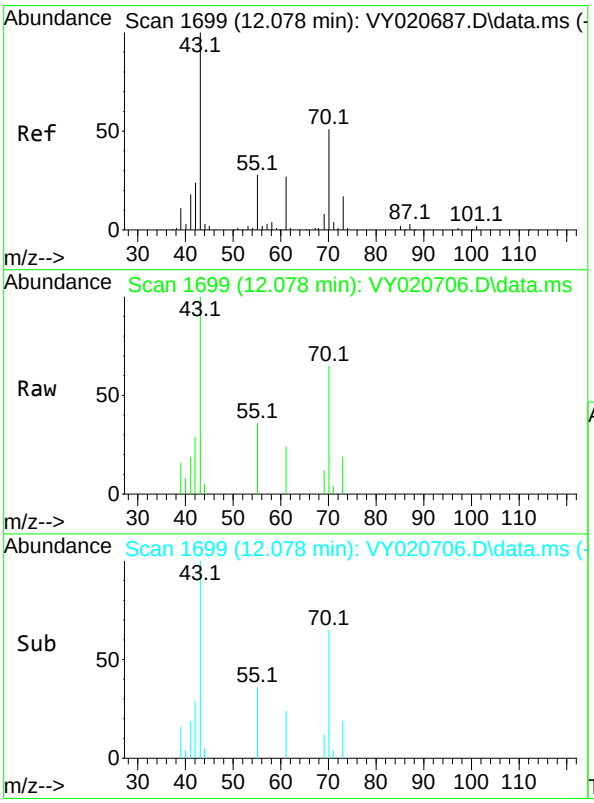

#73
Isopropylbenzene
Concen: 4.508 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:105 Resp: 21271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.9 | 13.3 | 39.9 |

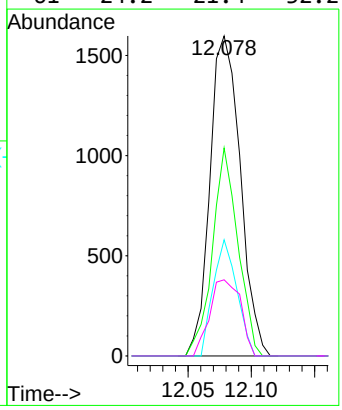


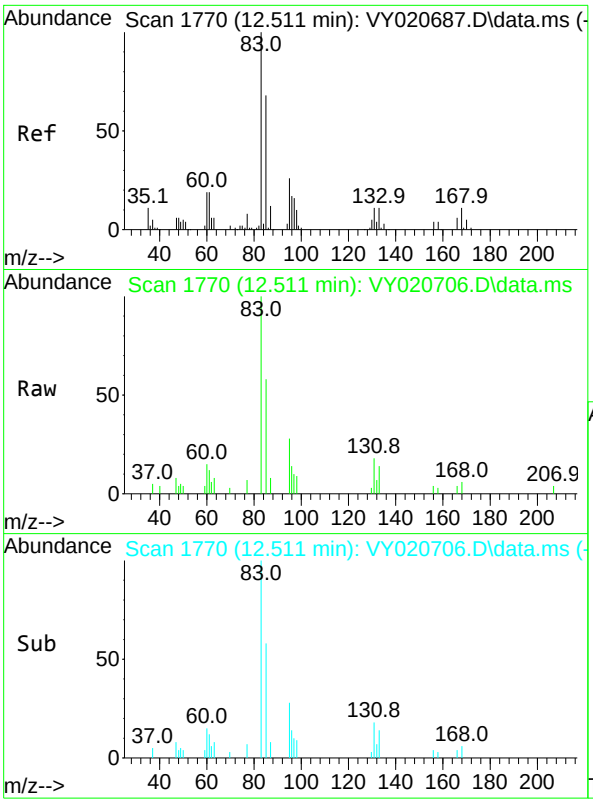




#74
N-amyl acetate
Concen: 3.970 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 43 Resp: 2662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 54.7 | 39.7 | 59.5 |
| 55 | 28.3 | 21.5 | 32.3 |
| 61 | 24.2 | 21.4 | 32.2 |



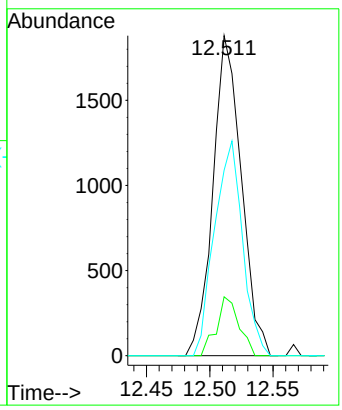


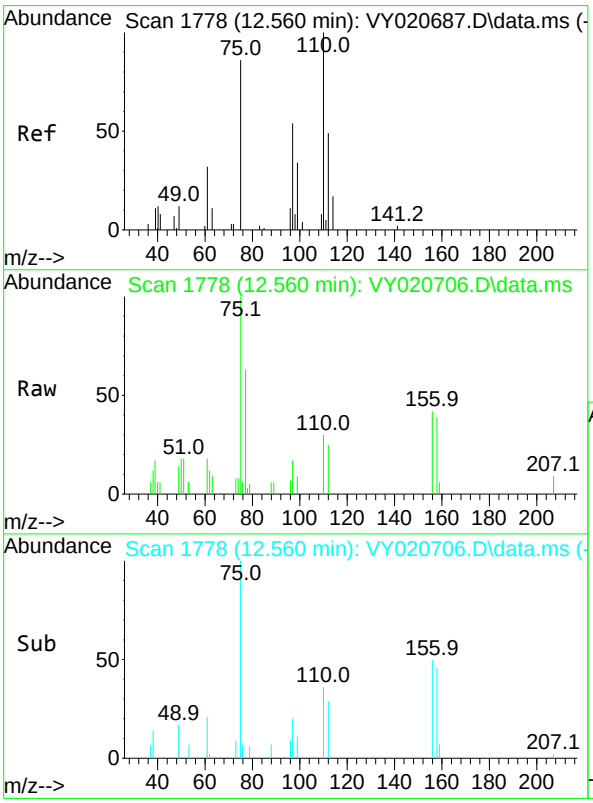

#75
1,1,2,2-Tetrachloroethane
Concen: 4.847 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 2932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.5 | 6.9 | 20.7 |
| 85 | 66.4 | 32.5 | 97.4 |

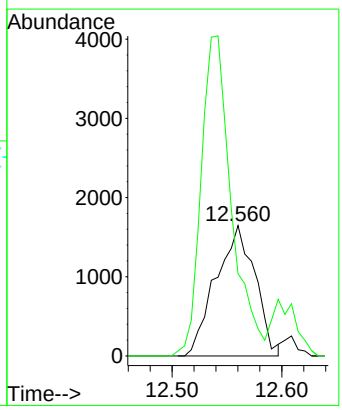


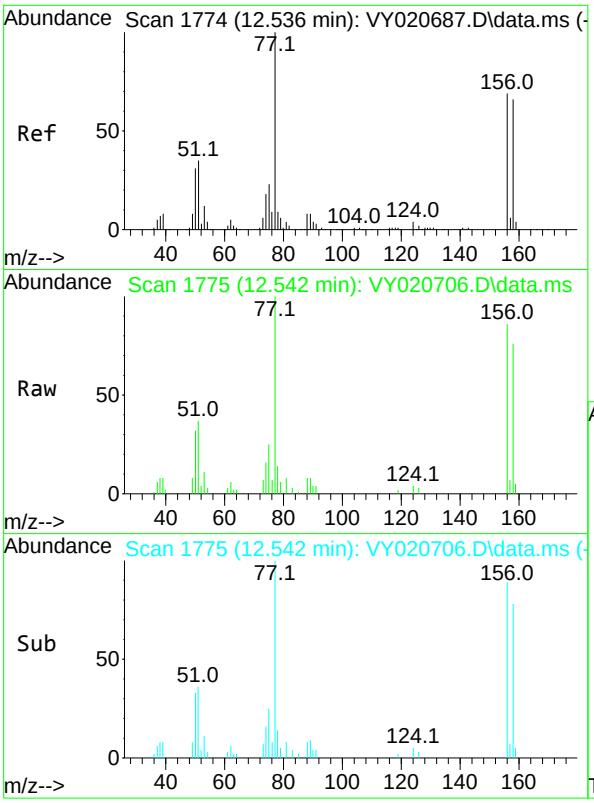




#76
1,2,3-Trichloropropane
Concen: 8.425 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 75 Resp: 4095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 189.8 | 0.0 | 0.0# |



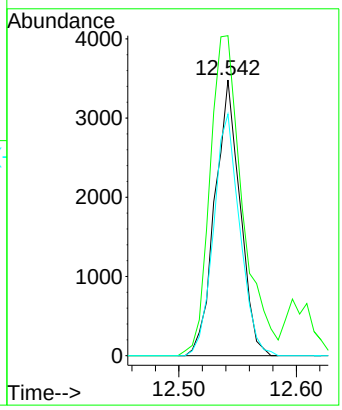


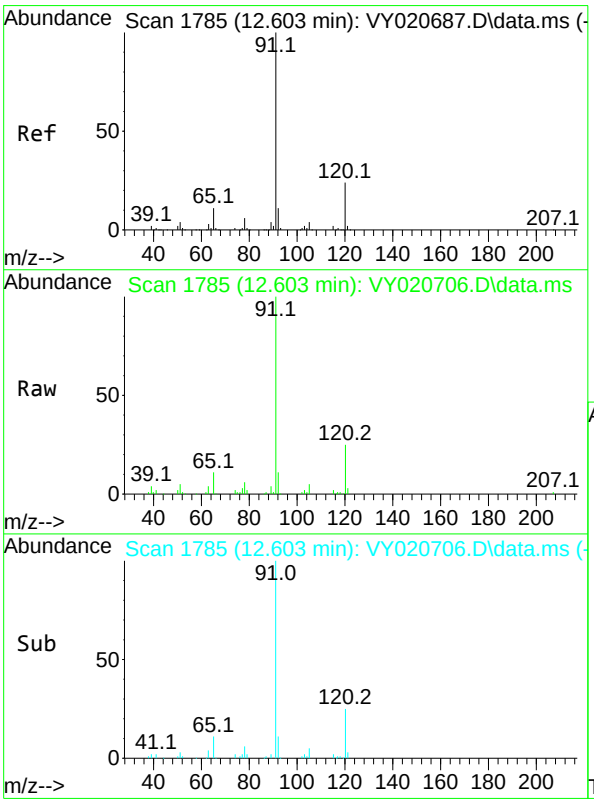

#77
Bromobenzene
Concen: 4.775 ug/l
RT: 12.542 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:156 Resp: 5187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 149.9 | 78.3 | 235.0 |
| 158 | 91.1 | 48.3 | 144.9 |

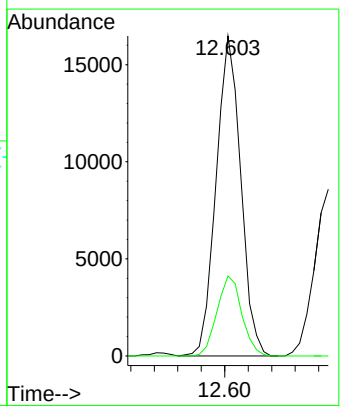


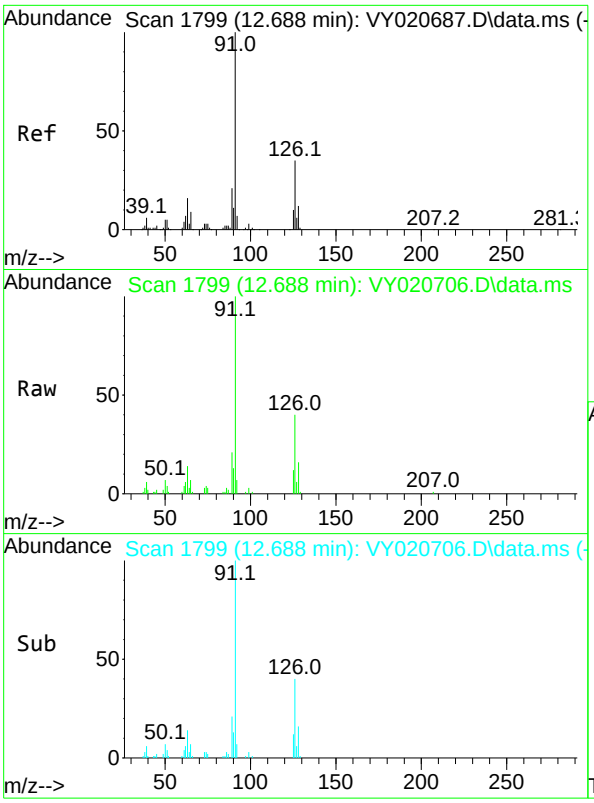




#78
n-propylbenzene
Concen: 4.534 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 91 Resp: 23980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 25.1 | 12.3 | 36.8 |



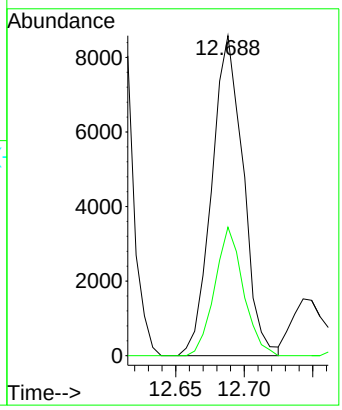


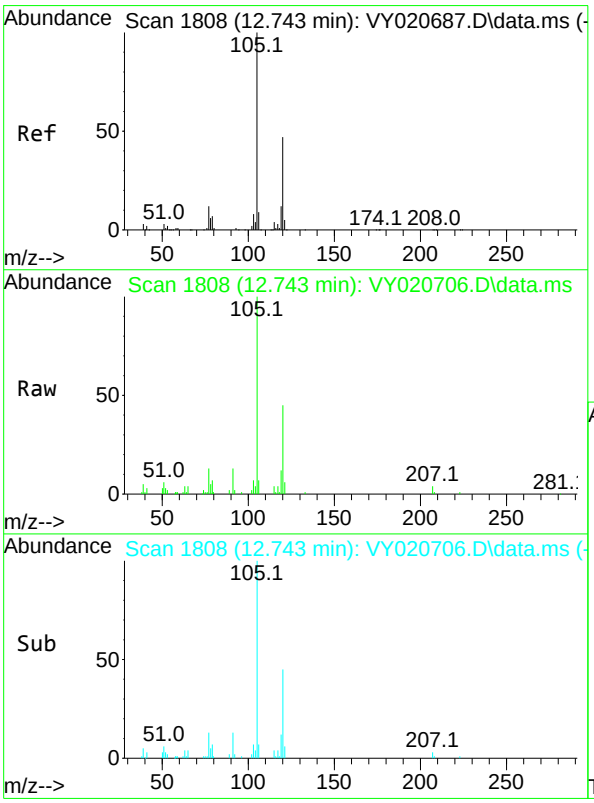

#79
2-Chlorotoluene
Concen: 4.540 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 13687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.6 | 17.8 | 53.3 |

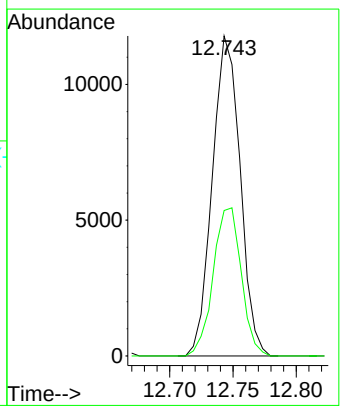


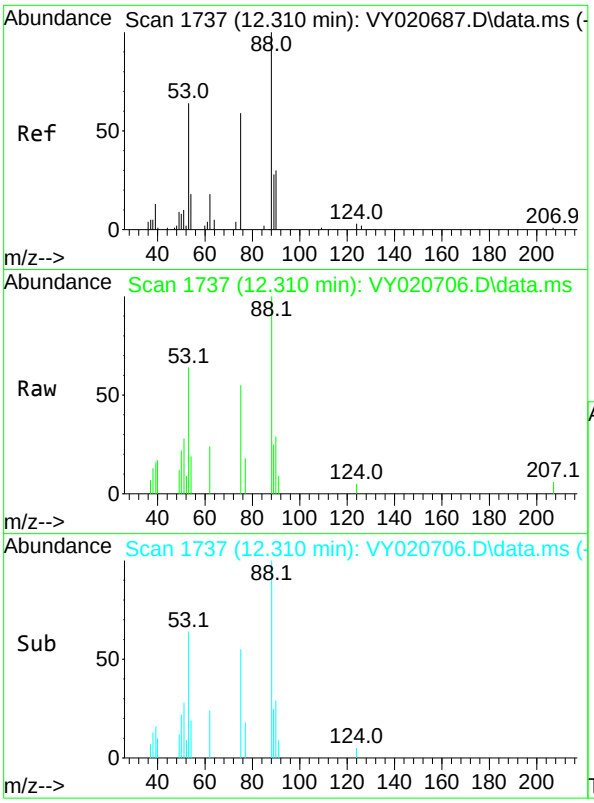




#80
1,3,5-Trimethylbenzene
Concen: 4.582 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:105 Resp: 18014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.7 | 23.9 | 71.7 |



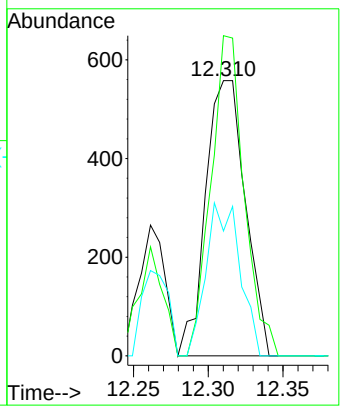


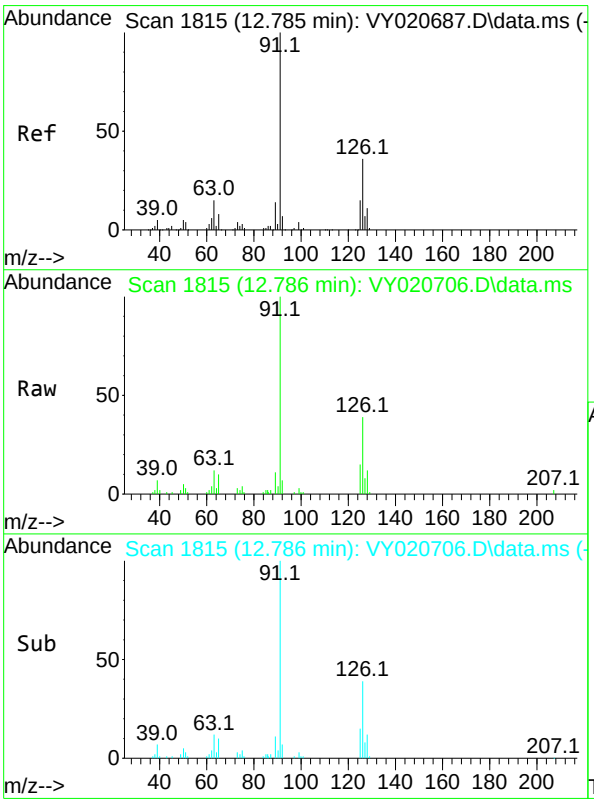

#81
trans-1,4-Dichloro-2-butene
Concen: 4.700 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 75 Resp: 1030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 97.4 | 83.1 | 124.7 |
| 89 | 47.2 | 40.6 | 61.0 |

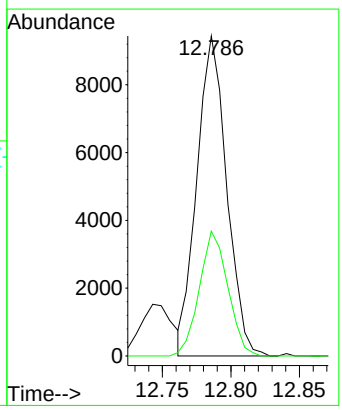


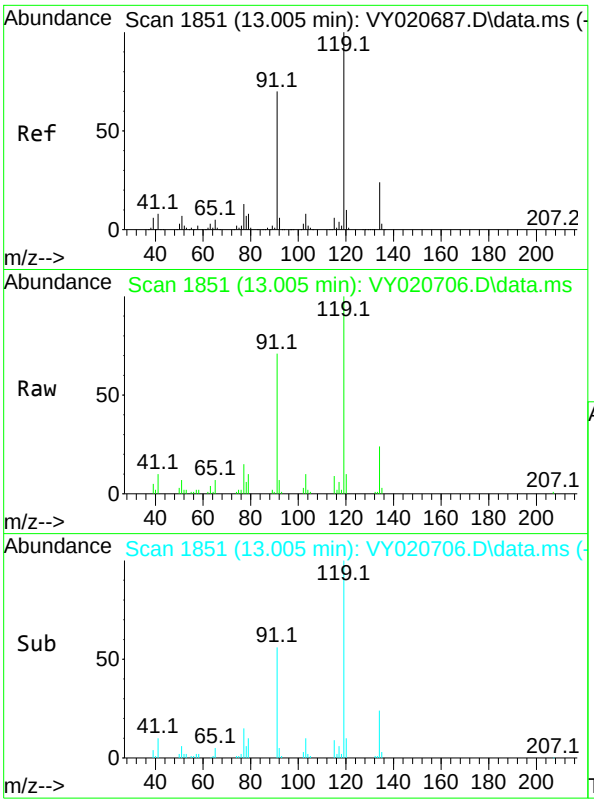




#82
4-Chlorotoluene
Concen: 4.588 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 91 Resp: 14294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 37.3 | 17.8 | 53.5 |



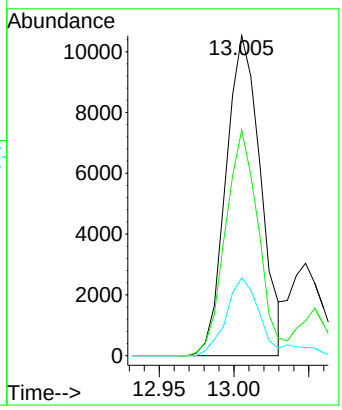


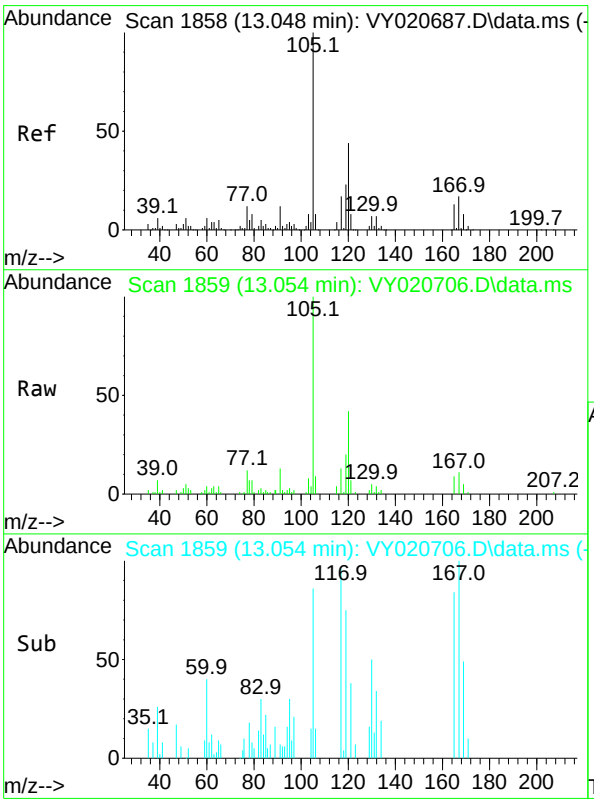

#83
tert-Butylbenzene
Concen: 4.613 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:119 Resp: 16938

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.4 | 33.6 | 100.8 |
| 134 | 25.6 | 13.4 | 40.2 |

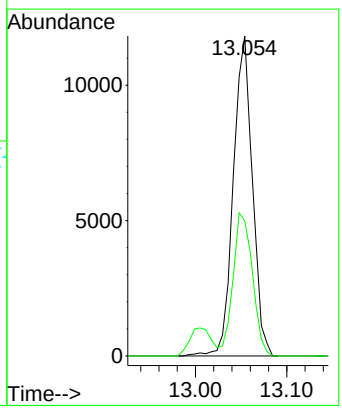


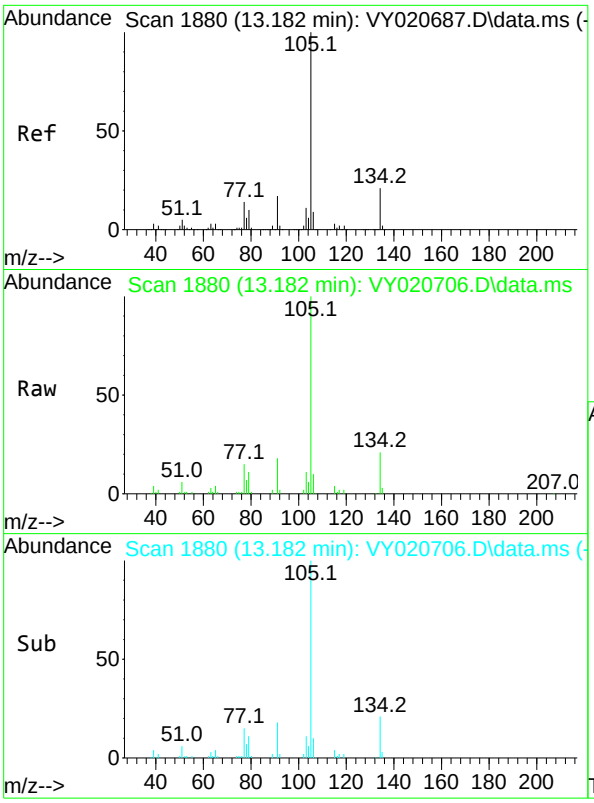




#84
1,2,4-Trimethylbenzene
Concen: 4.473 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:105 Resp: 17114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.7 | 21.8 | 65.3 |



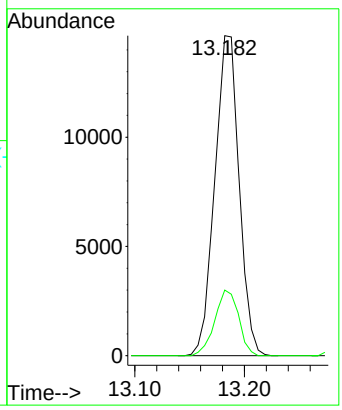


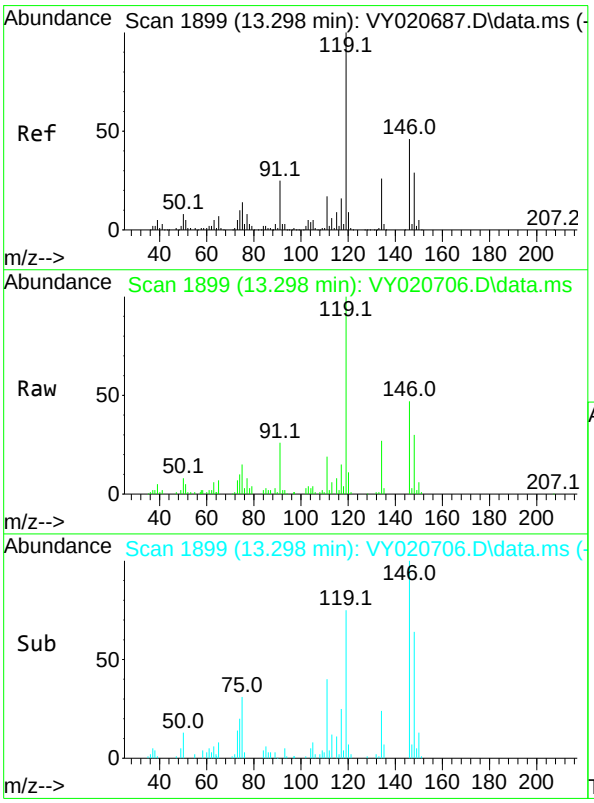

#85
sec-Butylbenzene
Concen: 4.564 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:105 Resp: 22583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 20.1 | 10.7 | 32.1 |

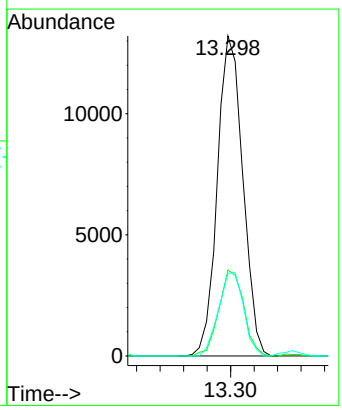


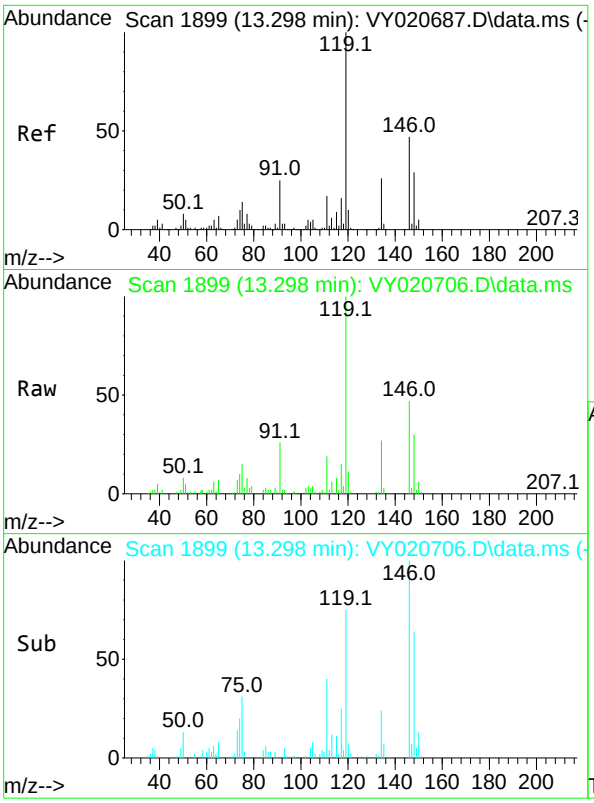




#86
p-Isopropyltoluene
Concen: 4.513 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:119 Resp: 19901

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 13.4 | 40.2 |
| 91 | 25.6 | 12.9 | 38.6 |



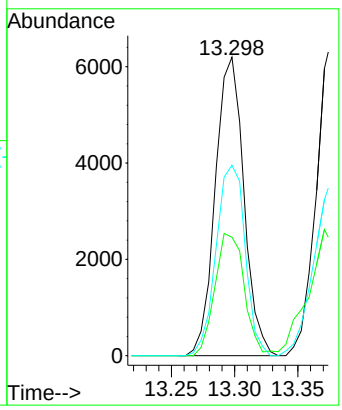


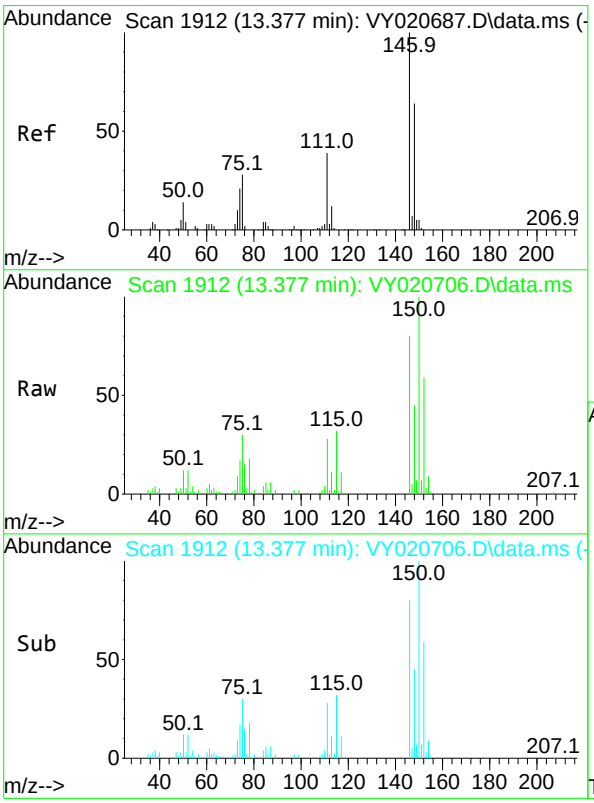

#87
1,3-Dichlorobenzene
Concen: 4.582 ug/l
RT: 13.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:146 Resp: 9727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.4 | 19.3 | 57.8 |
| 148 | 64.9 | 31.1 | 93.5 |

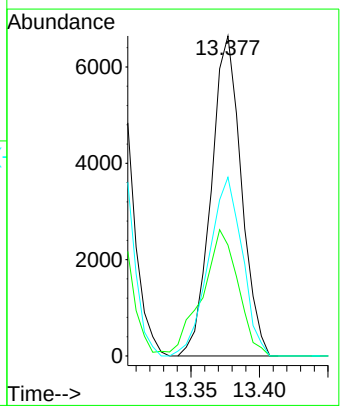


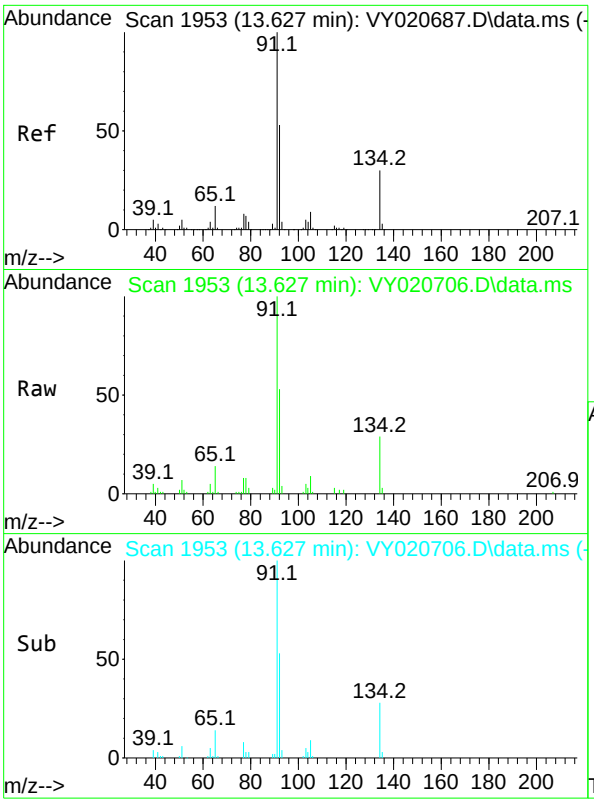




#88
1,4-Dichlorobenzene
Concen: 4.811 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:146 Resp: 10161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 46.8 | 19.7 | 59.0 |
| 148 | 62.3 | 32.8 | 98.3 |



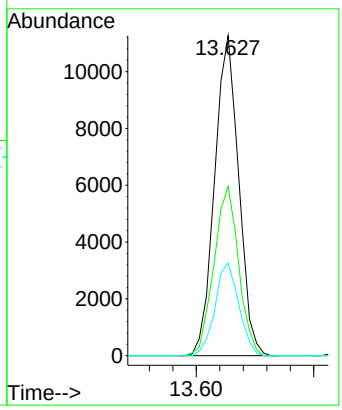


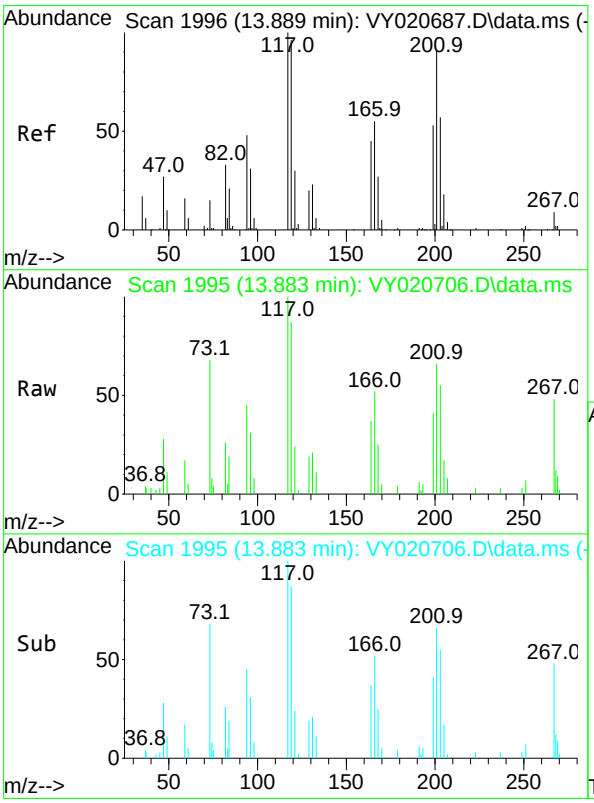

#89
n-Butylbenzene
Concen: 4.359 ug/l
RT: 13.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 16045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.1 | 26.1 | 78.2 |
| 134 | 28.7 | 14.8 | 44.4 |

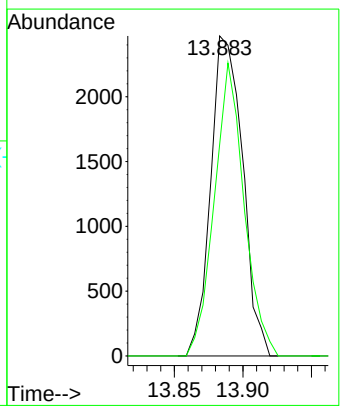


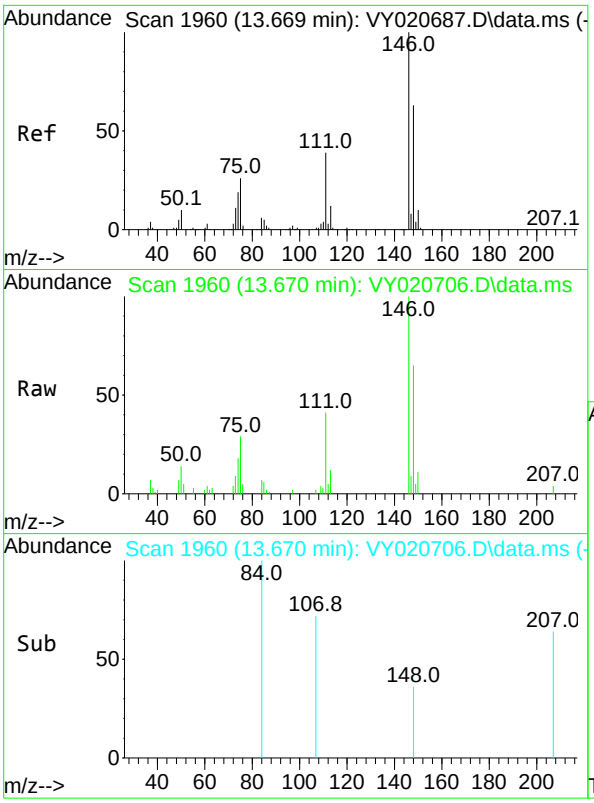




#90
Hexachloroethane
Concen: 4.760 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. -0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:117 Resp: 3991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 85.4 | 44.9 | 134.7 |



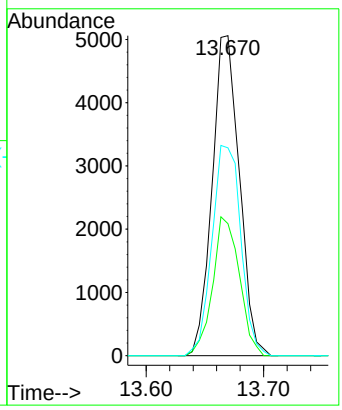


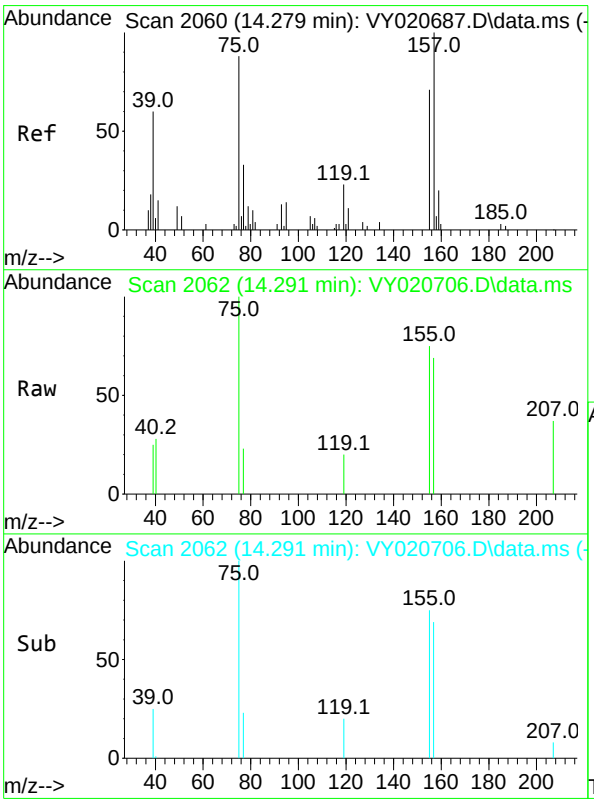

#91
1,2-Dichlorobenzene
Concen: 4.480 ug/l
RT: 13.670 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:146 Resp: 8154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.5 | 20.3 | 60.8 |
| 148 | 69.5 | 31.9 | 95.5 |

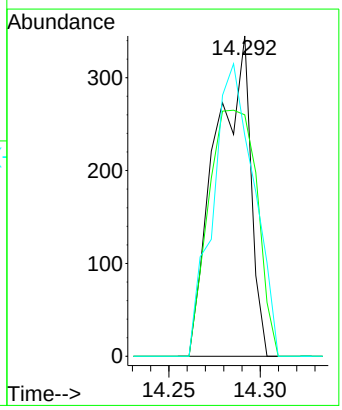


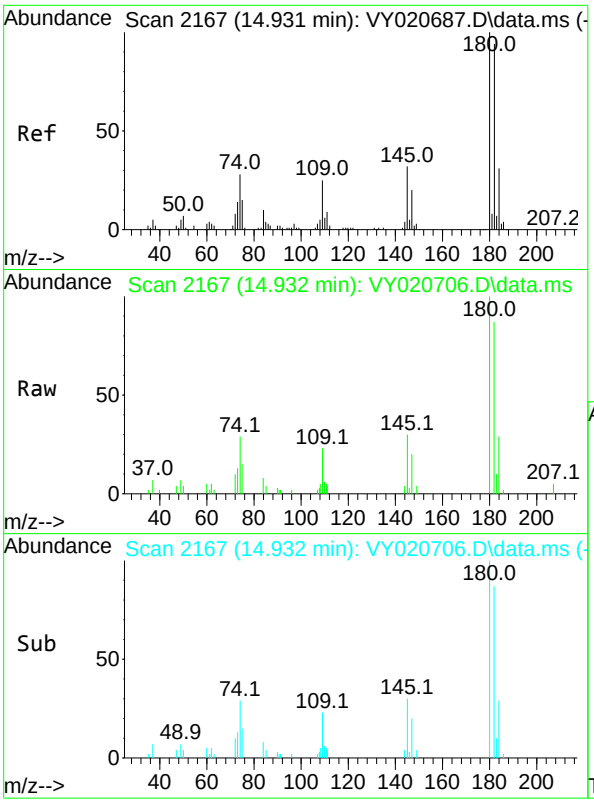




#92
1,2-Dibromo-3-Chloropropane
Concen: 3.921 ug/l
RT: 14.291 min Scan# 2062
Delta R.T. 0.012 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion: 75 Resp: 460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 105.7 | 43.4 | 130.2 |
| 157 | 107.0 | 58.6 | 175.7 |



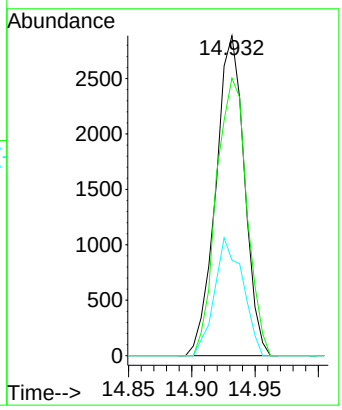


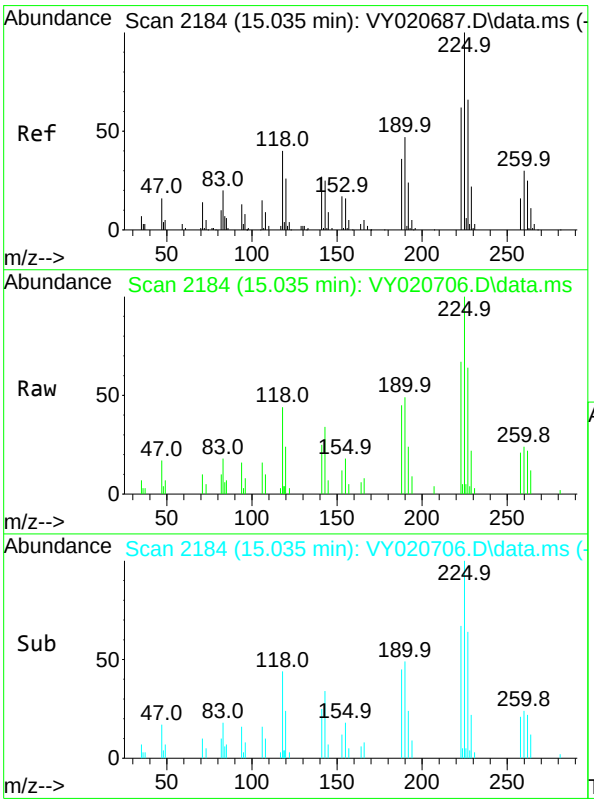

#93
1,2,4-Trichlorobenzene
Concen: 3.920 ug/l
RT: 14.932 min Scan# 21
Delta R.T. 0.001 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:180 Resp: 4536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.5 | 47.9 | 143.7 |
| 145 | 36.4 | 15.6 | 46.8 |

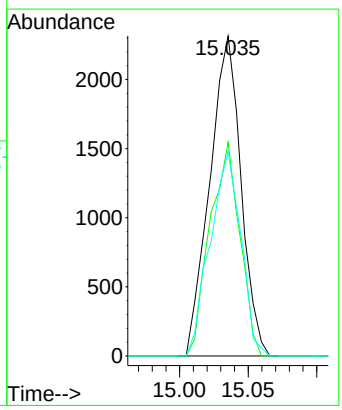


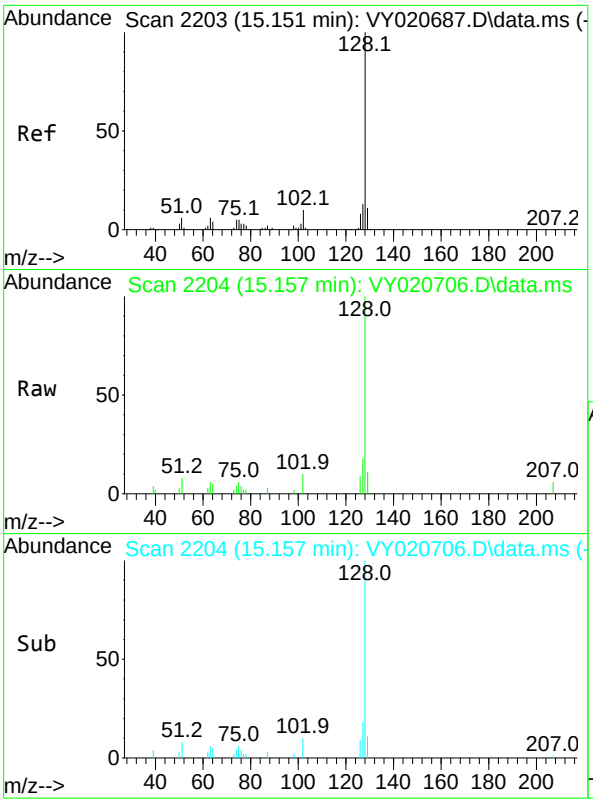




#94
Hexachlorobutadiene
Concen: 4.345 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:225 Resp: 3664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 31.3 | 93.8 |
| 227 | 63.0 | 32.1 | 96.5 |



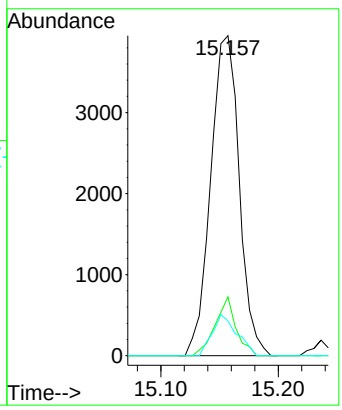


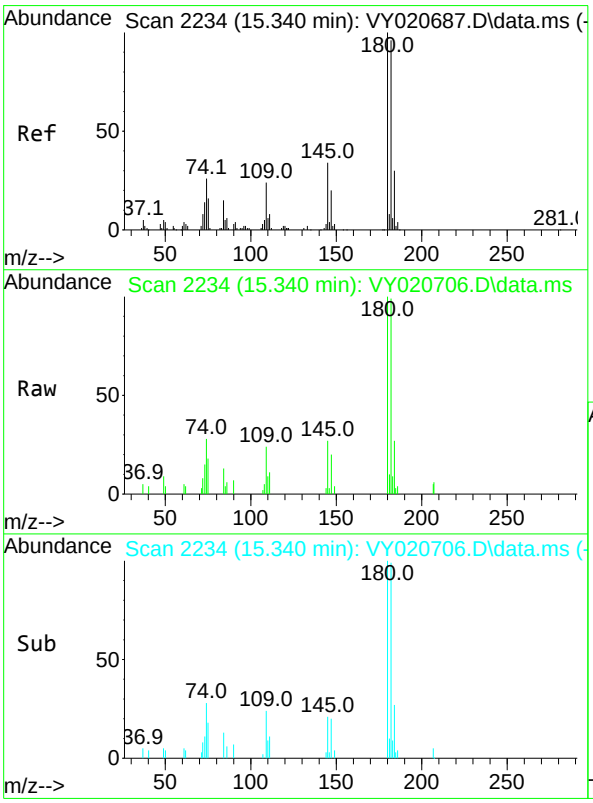

#95
Naphthalene
Concen: 3.599 ug/l
RT: 15.157 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC005

Tgt Ion:128 Resp: 6669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.7 | 16.1 |
| 129 | 11.1 | 8.6 | 12.8 |

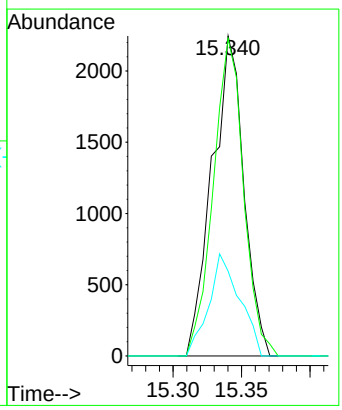



#96
1,2,3-Trichlorobenzene
Concen: 3.753 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020706.D
Acq: 26 Dec 2024 09:31

Tgt Ion:180 Resp: 3615

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 47.4 | 142.2 |
| 145 | 31.0 | 16.7 | 50.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020707.D
Acq On : 26 Dec 2024 09:53
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Dec 26 16:05:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 113806 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.621 | 114 | 160513 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 134187 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 67536 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 9148 | 9.814 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 19.620%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 8811 | 9.966 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 19.940%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 28333 | 9.506 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 19.020%# | | | |
| 62) 4-Bromofluorobenzene | 12.413 | 95 | 12144 | 10.336 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 20.680%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 10304 | 11.503 | ug/l | 90 |
| 3) Chloromethane | 2.080 | 50 | 3515 | 10.521 | ug/l | 97 |
| 4) Vinyl Chloride | 2.214 | 62 | 4449 | 10.748 | ug/l | 97 |
| 5) Bromomethane | 2.610 | 94 | 3397 | 10.870 | ug/l | 93 |
| 6) Chloroethane | 2.751 | 64 | 2641 | 10.636 | ug/l | 90 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 17447 | 10.961 | ug/l | 95 |
| 8) Diethyl Ether | 3.464 | 74 | 3903 | 10.304 | ug/l | 93 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 9745 | 11.152 | ug/l | 99 |
| 10) Methyl Iodide | 4.019 | 142 | 9549 | 9.993 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.872 | 59 | 3641 | 45.628 | ug/l | 99 |
| 12) 1,1-Dichloroethene | 3.811 | 96 | 8169 | 10.503 | ug/l | 90 |
| 13) Acrolein | 3.677 | 56 | 1325 | 67.996 | ug/l | 90 |
| 14) Allyl chloride | 4.403 | 41 | 9677 | 10.632 | ug/l | 94 |
| 15) Acrylonitrile | 5.079 | 53 | 7720 | 52.760 | ug/l | 94 |
| 16) Acetone | 3.891 | 43 | 7777 | 65.764 | ug/l | 90 |
| 17) Carbon Disulfide | 4.122 | 76 | 19437 | 10.187 | ug/l | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 3518 | 10.992 | ug/l | 95 |
| 19) Methyl tert-butyl Ether | 5.134 | 73 | 22860 | 10.545 | ug/l | 97 |
| 20) Methylene Chloride | 4.640 | 84 | 8316 | 10.812 | ug/l # | 88 |
| 21) trans-1,2-Dichloroethene | 5.134 | 96 | 8600 | 10.261 | ug/l | 98 |
| 22) Diisopropyl ether | 6.030 | 45 | 20110 | 10.869 | ug/l | 93 |
| 23) Vinyl Acetate | 5.976 | 43 | 56669 | 51.276 | ug/l | 98 |
| 24) 1,1-Dichloroethane | 5.939 | 63 | 15035 | 10.838 | ug/l # | 95 |
| 25) 2-Butanone | 6.914 | 43 | 7858 | 49.191 | ug/l | 93 |
| 26) 2,2-Dichloropropane | 6.902 | 77 | 18453 | 10.868 | ug/l | 96 |
| 27) cis-1,2-Dichloroethene | 6.908 | 96 | 10464 | 10.425 | ug/l | 98 |
| 28) Bromochloromethane | 7.262 | 49 | 3437 | 9.369 | ug/l # | 92 |
| 29) Tetrahydrofuran | 7.274 | 42 | 5125 | 52.267 | ug/l | 99 |
| 30) Chloroform | 7.433 | 83 | 18692 | 10.474 | ug/l | 88 |
| 31) Cyclohexane | 7.719 | 56 | 13258 | 11.072 | ug/l # | 92 |
| 32) 1,1,1-Trichloroethane | 7.634 | 97 | 20406 | 10.668 | ug/l | 98 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 12601 | 10.790 | ug/l | 98 |
| 37) Ethyl Acetate | 6.994 | 43 | 3547 | 9.217 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 20683 | 10.755 | ug/l | 94 |
| 39) Methylcyclohexane | 9.115 | 83 | 15497 | 10.353 | ug/l | 95 |
| 40) Benzene | 8.091 | 78 | 35447 | 10.473 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020707.D
Acq On : 26 Dec 2024 09:53
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Dec 26 16:05:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.238 | 41 | 1876 | 9.650 | ug/l | # | 68 |
| 42) 1,2-Dichloroethane | 8.170 | 62 | 11313 | 10.424 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 7905 | 9.664 | ug/l | # | 87 |
| 44) Trichloroethene | 8.878 | 130 | 10790 | 10.673 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 7377 | 10.767 | ug/l | | 91 |
| 46) Dibromomethane | 9.237 | 93 | 4900 | 10.336 | ug/l | | 94 |
| 47) Bromodichloromethane | 9.432 | 83 | 14245 | 10.599 | ug/l | | 98 |
| 48) Methyl methacrylate | 9.231 | 41 | 3827 | 10.018 | ug/l | | 94 |
| 49) 1,4-Dioxane | 9.243 | 88 | 924 | 204.624 | ug/l | | 90 |
| 51) 4-Methyl-2-Pentanone | 10.005 | 43 | 19722 | 49.951 | ug/l | | 99 |
| 52) Toluene | 10.176 | 92 | 24111 | 10.393 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 11736 | 9.942 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 13095 | 10.121 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.578 | 97 | 5992 | 9.902 | ug/l | | 94 |
| 56) Ethyl methacrylate | 10.444 | 69 | 7986 | 10.046 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 9956 | 10.137 | ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 12740 | 45.957 | ug/l | | 97 |
| 59) 2-Hexanone | 10.767 | 43 | 12416 | 47.628 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.920 | 129 | 10320 | 10.554 | ug/l | | 96 |
| 61) 1,2-Dibromoethane | 11.023 | 107 | 5732 | 10.067 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.658 | 164 | 9654 | 10.530 | ug/l | | 93 |
| 65) Chlorobenzene | 11.450 | 112 | 28012 | 10.661 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.523 | 131 | 10891 | 10.699 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.529 | 91 | 48565 | 10.575 | ug/l | | 97 |
| 68) m/p-Xylenes | 11.639 | 106 | 37110 | 21.184 | ug/l | | 99 |
| 69) o-Xylene | 11.962 | 106 | 17878 | 10.682 | ug/l | | 99 |
| 70) Styrene | 11.975 | 104 | 28883 | 10.280 | ug/l | | 99 |
| 71) Bromoform | 12.133 | 173 | 6103 | 10.428 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 51343 | 10.973 | ug/l | | 99 |
| 74) N-amyl acetate | 12.078 | 43 | 6525 | 9.813 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 5918 | 9.866 | ug/l | | 94 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 9219 | 17.305 | ug/l | # | 100 |
| 77) Bromobenzene | 12.541 | 156 | 11164 | 10.365 | ug/l | | 94 |
| 78) n-propylbenzene | 12.602 | 91 | 57154 | 10.898 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 32123 | 10.745 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 41891 | 10.746 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 2060 | 9.480 | ug/l | | 92 |
| 82) 4-Chlorotoluene | 12.785 | 91 | 32918 | 10.654 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 39005 | 10.714 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 39791 | 10.489 | ug/l | | 96 |
| 85) sec-Butylbenzene | 13.182 | 105 | 52410 | 10.682 | ug/l | | 97 |
| 86) p-Isopropyltoluene | 13.297 | 119 | 47106 | 10.773 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.297 | 146 | 22556 | 10.715 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 21947 | 10.480 | ug/l | | 96 |
| 89) n-Butylbenzene | 13.627 | 91 | 39091 | 10.710 | ug/l | | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 8880 | 10.680 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 18554 | 10.279 | ug/l | | 96 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 1198 | 10.298 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.931 | 180 | 11153 | 9.721 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 8808 | 10.534 | ug/l | | 98 |
| 95) Naphthalene | 15.151 | 128 | 16857 | 9.174 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 9155 | 9.584 | ug/l | | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020707.D
Acq On : 26 Dec 2024 09:53
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Dec 26 16:05:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

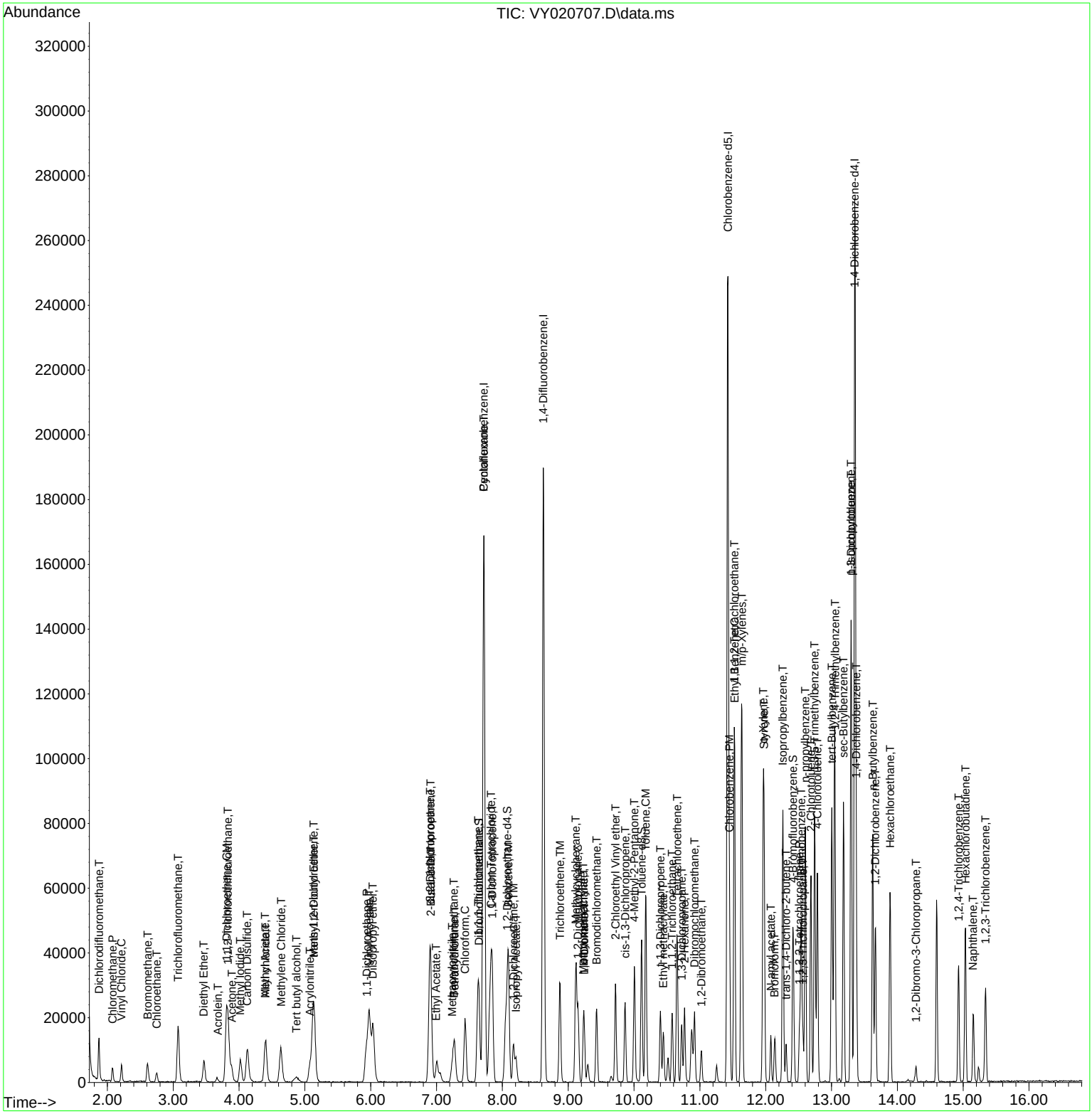
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

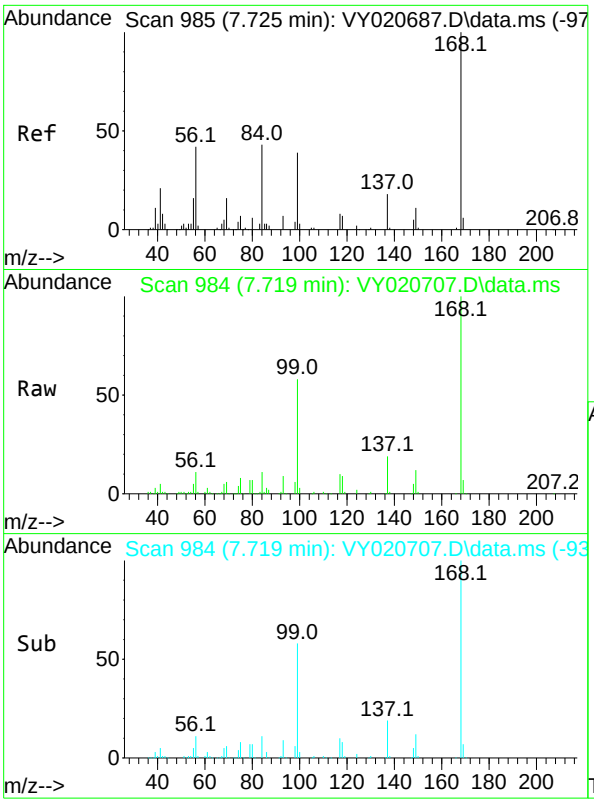
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020707.D
Acq On : 26 Dec 2024 09:53
Operator : SY/MD
Sample : VSTDICC010
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Quant Time: Dec 26 16:05:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration



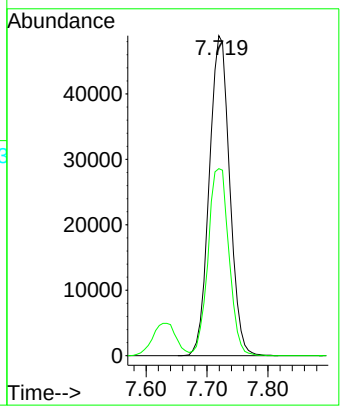


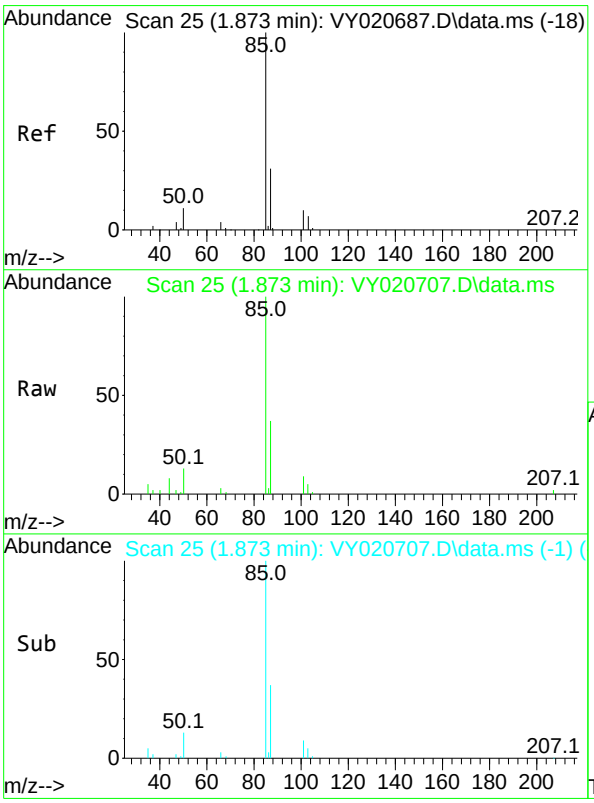

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:168 Resp: 113806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.5 | 43.8 | 65.6 |

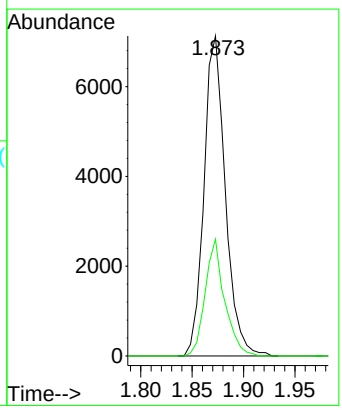


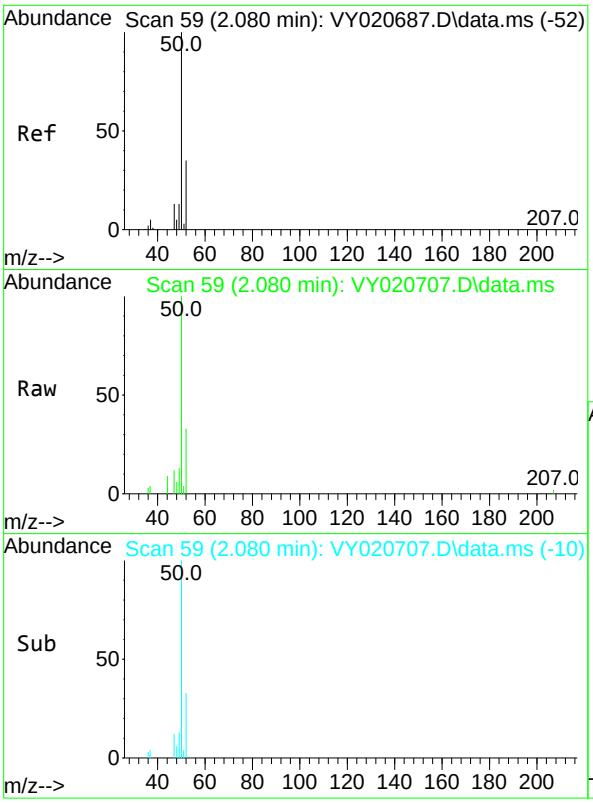




#2
Dichlorodifluoromethane
Concen: 11.503 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 85 Resp: 10304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 36.5 | 15.4 | 46.4 |



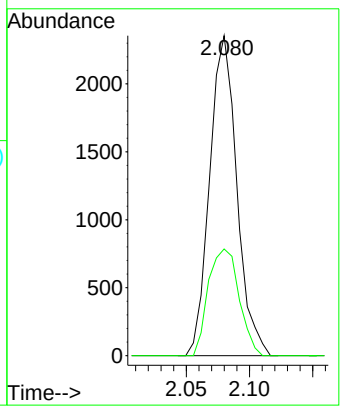


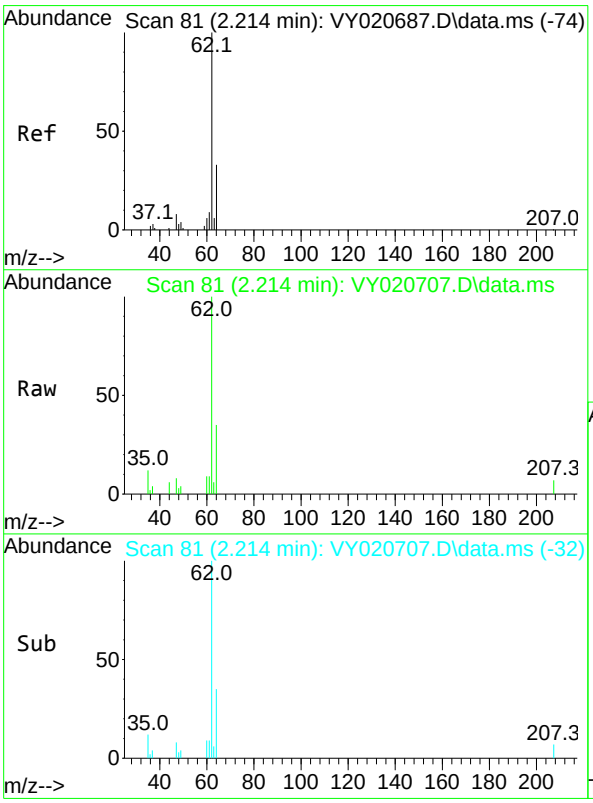

#3
Chloromethane
Concen: 10.521 ug/l
RT: 2.080 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 50 Resp: 3515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 28.2 | 42.2 |

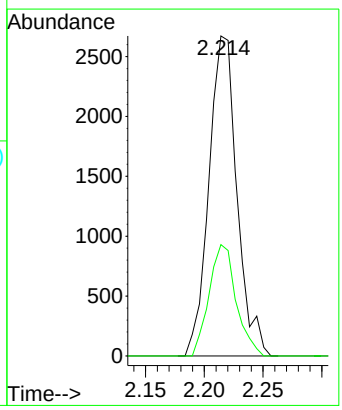


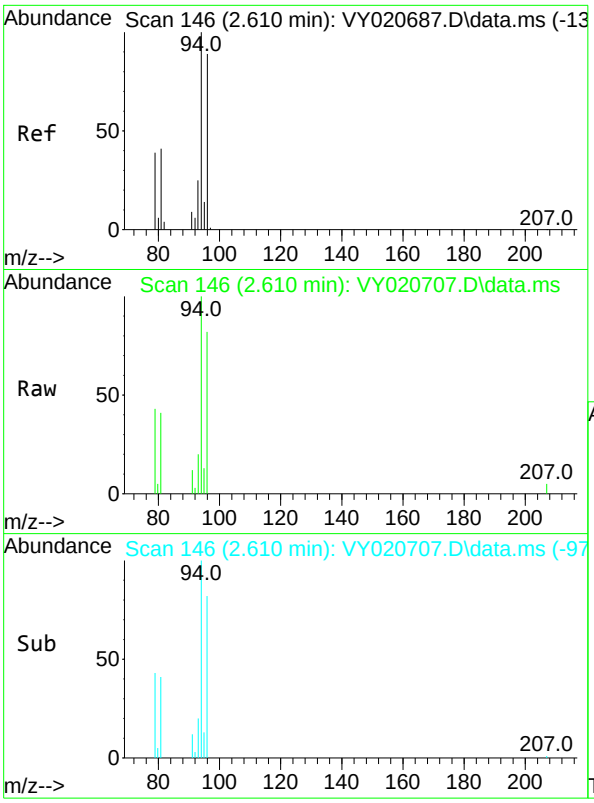




#4
Vinyl Chloride
Concen: 10.748 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 62 Resp: 4449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.8 | 26.6 | 40.0 |



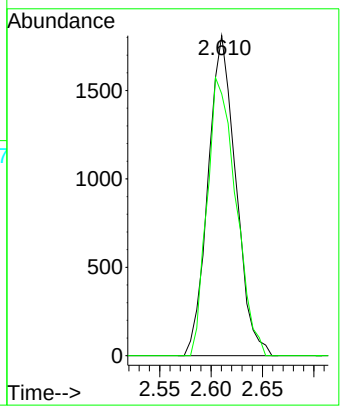


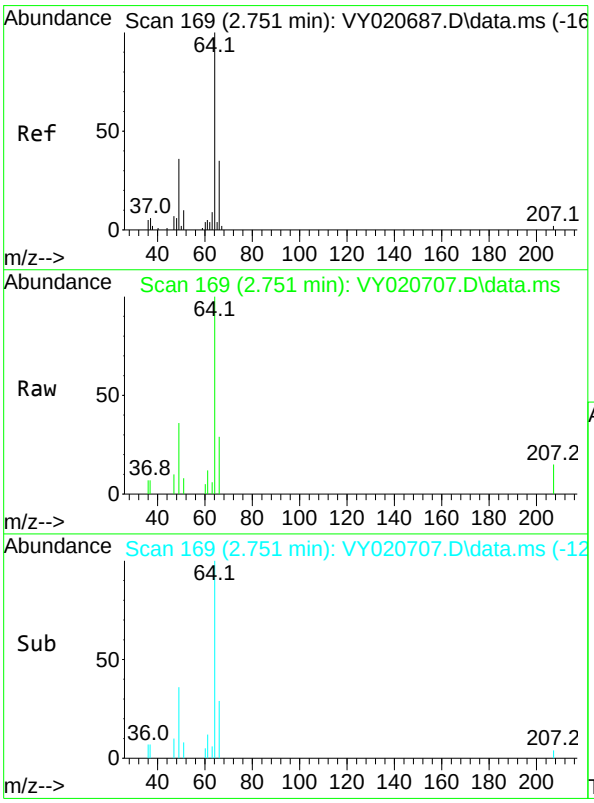

#5
Bromomethane
Concen: 10.870 ug/l
RT: 2.610 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 94 Resp: 3397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 81.8 | 71.0 | 106.6 |

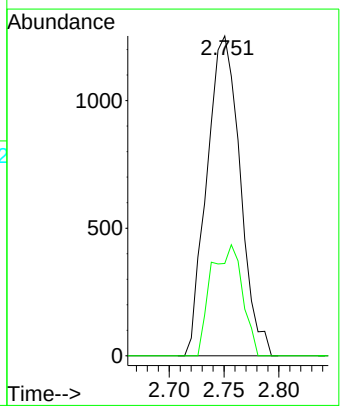


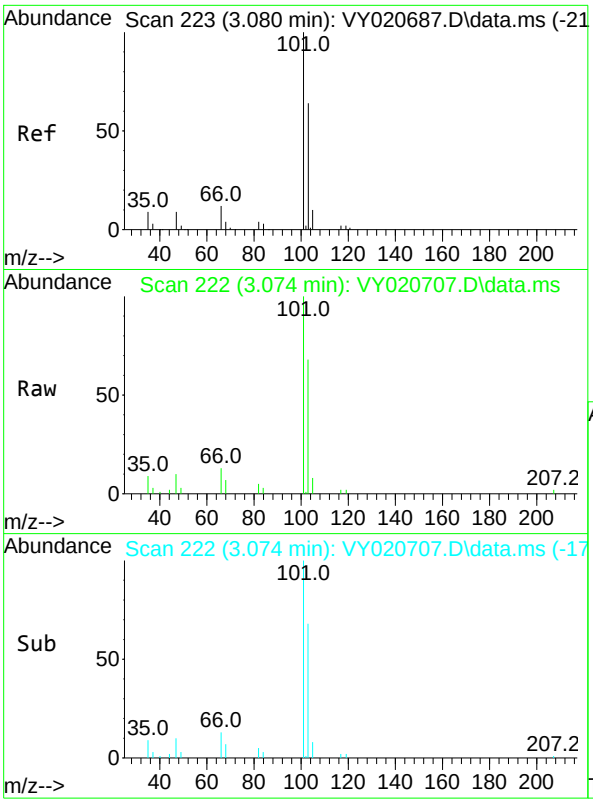




#6
Chloroethane
Concen: 10.636 ug/l
RT: 2.751 min Scan# 169
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 64 Resp: 2641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 28.9 | 27.8 | 41.8 |



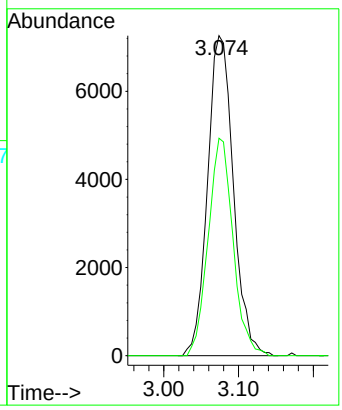


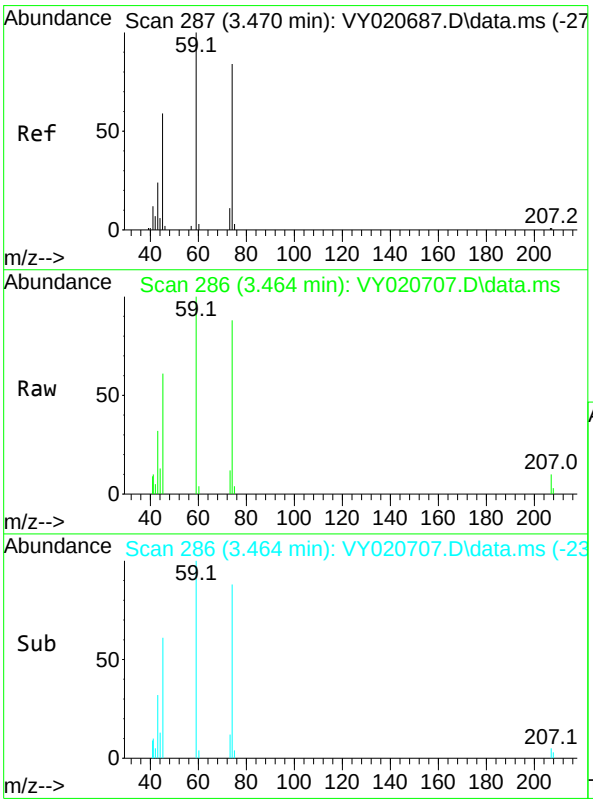

#7
Trichlorofluoromethane
Concen: 10.961 ug/l
RT: 3.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:101 Resp: 17447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 67.9 | 51.4 | 77.0 |

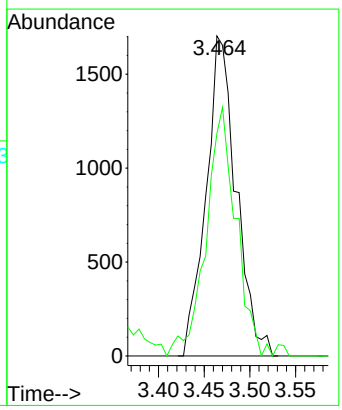


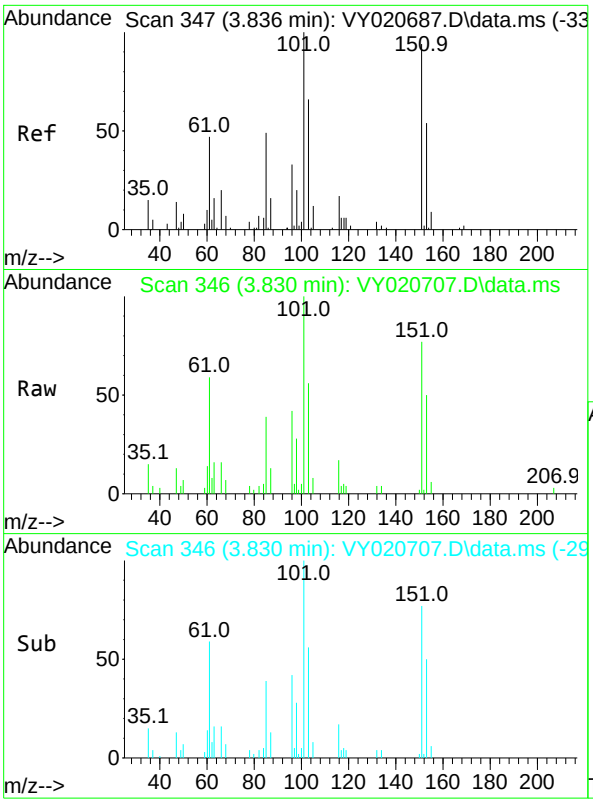




#8
Diethyl Ether
Concen: 10.304 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 74 Resp: 3903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 77.2 | 35.8 | 107.4 |



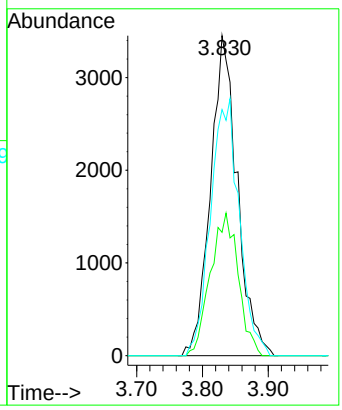


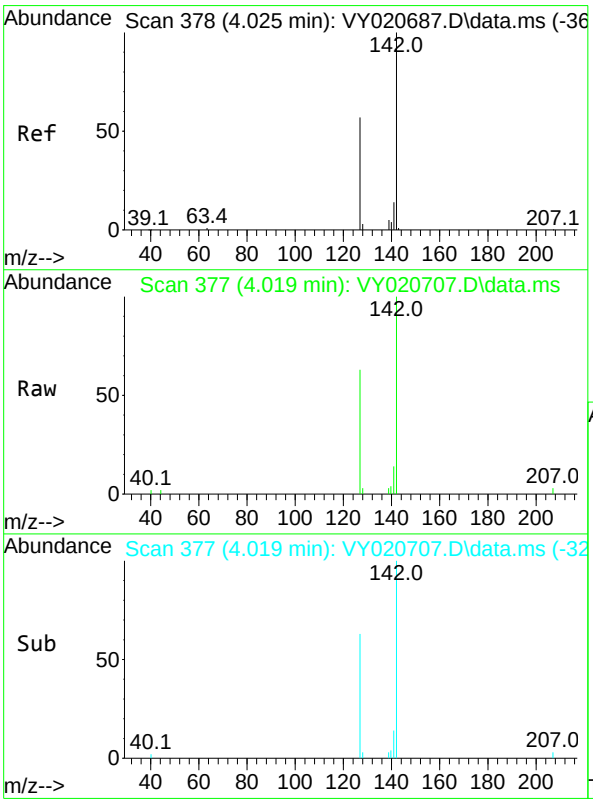

#9
1,1,2-Trichlorotrifluoroethane
Concen: 11.152 ug/l
RT: 3.830 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:101 Resp: 9745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.4 | 38.2 | 57.2 |
| 151 | 86.1 | 68.4 | 102.6 |

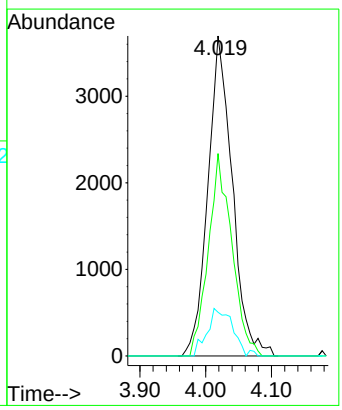


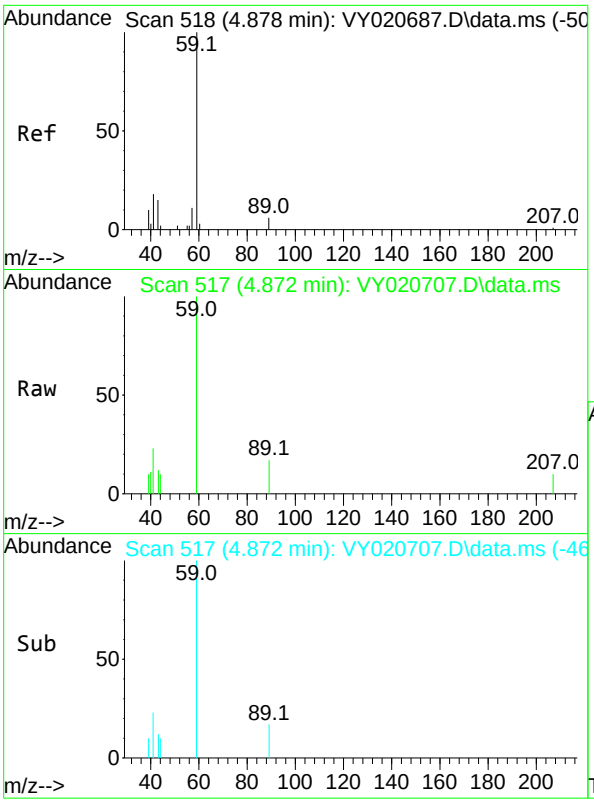




#10
Methyl Iodide
Concen: 9.993 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:142 Resp: 9549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 60.9 | 48.8 | 73.2 |
| 141 | 15.6 | 11.9 | 17.9 |



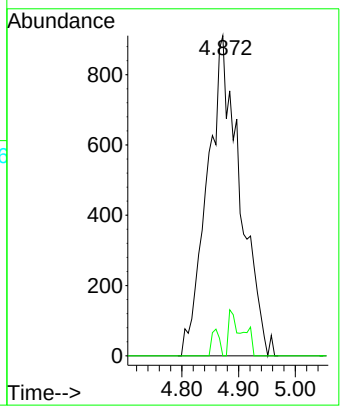


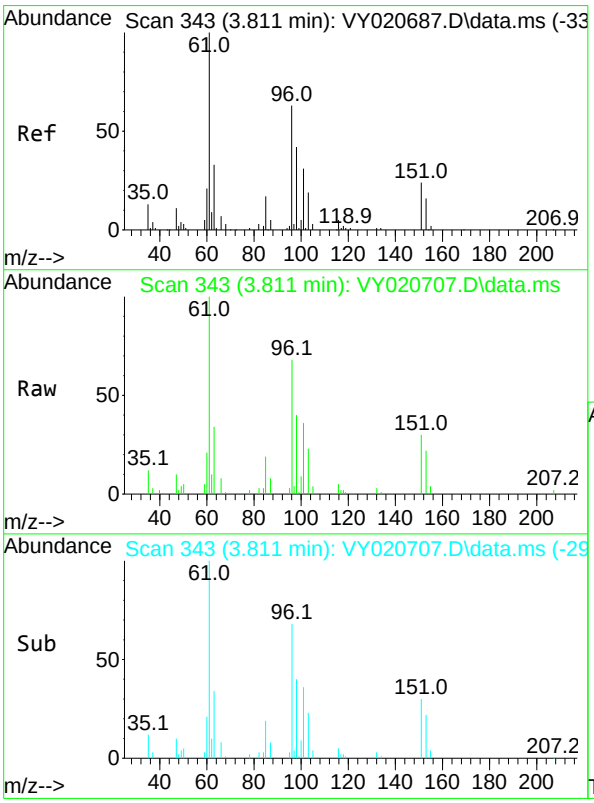

#11
Tert butyl alcohol
Concen: 45.628 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 59 Resp: 3641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 3.8 | 2.8 | 4.2 |

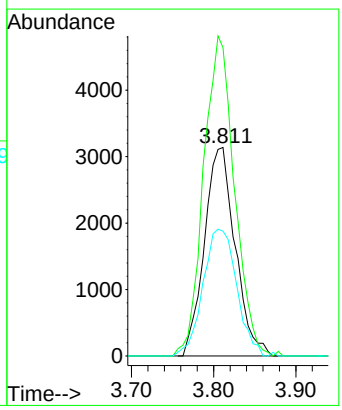


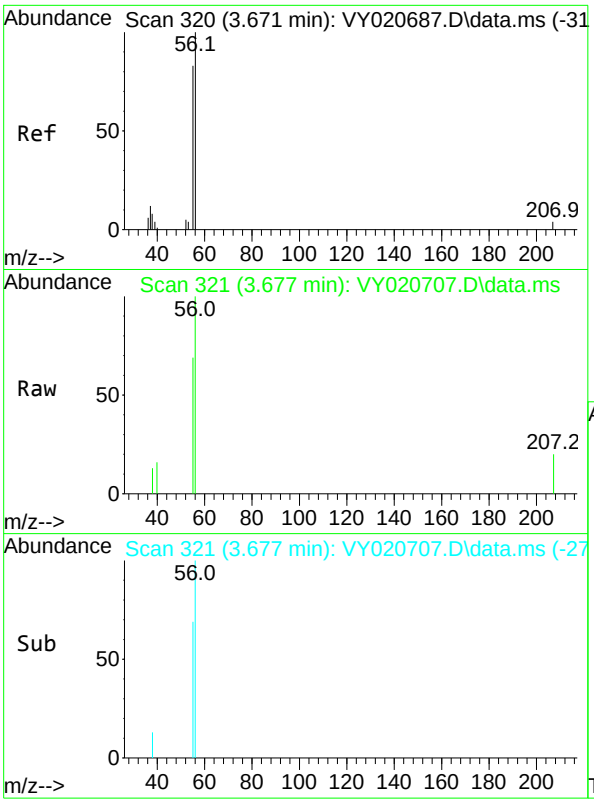




#12
1,1-Dichloroethene
Concen: 10.503 ug/l
RT: 3.811 min Scan# 343
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 96 Resp: 8169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 145.8 | 127.1 | 190.7 |
| 98 | 59.8 | 53.4 | 80.0 |



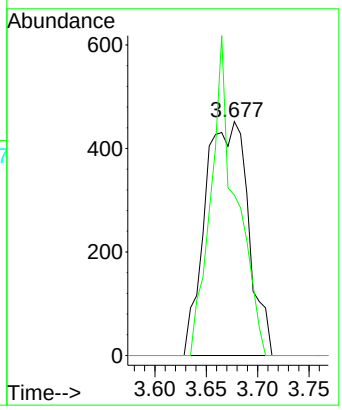


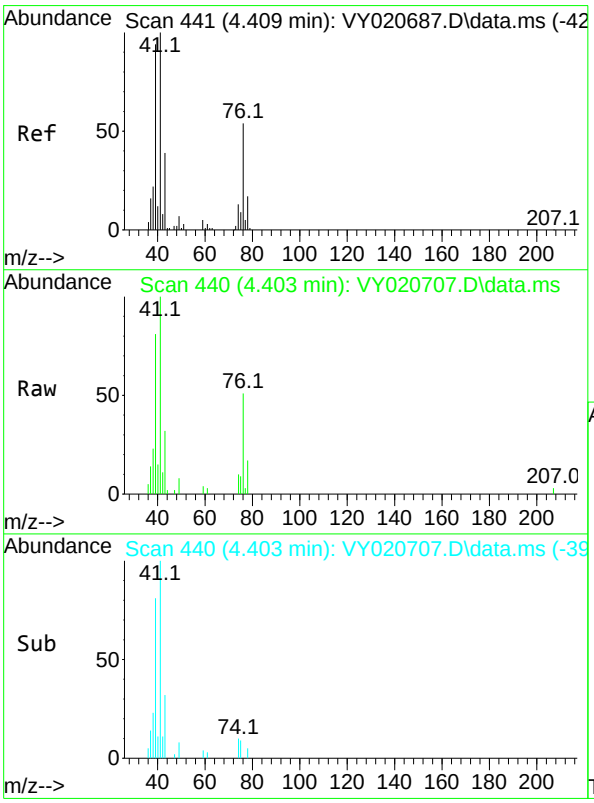

#13
Acrolein
Concen: 67.996 ug/l
RT: 3.677 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 56 Resp: 1325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 79.7 | 57.0 | 85.4 |

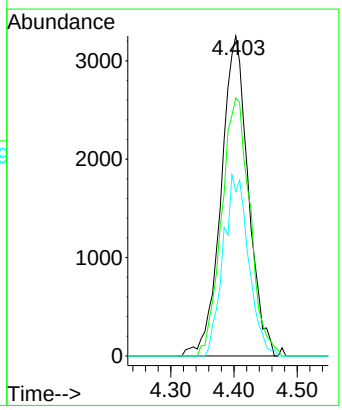


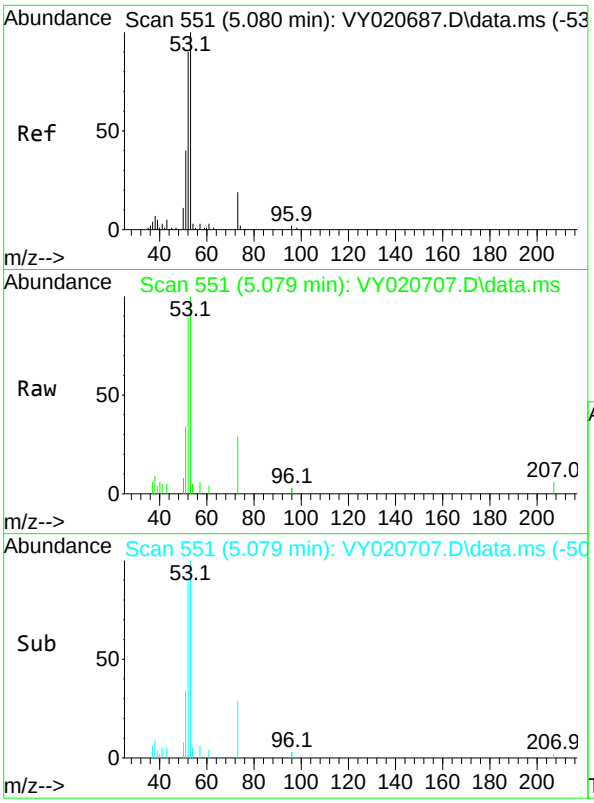




#14
Allyl chloride
Concen: 10.632 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 41 Resp: 9677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 84.1 | 73.5 | 110.3 |
| 76 | 52.9 | 41.8 | 62.8 |



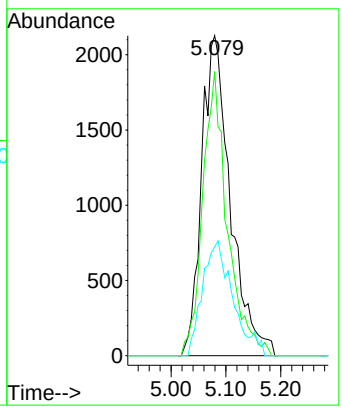


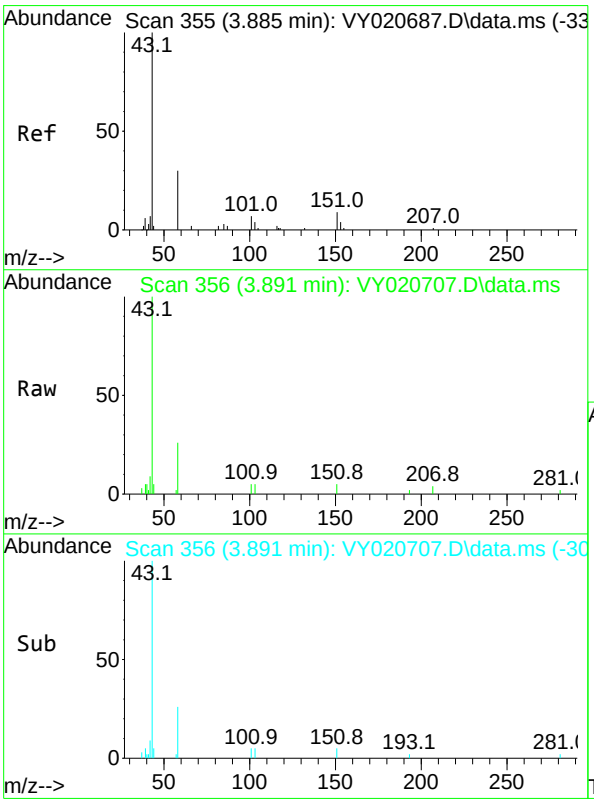

#15
Acrylonitrile
Concen: 52.760 ug/l
RT: 5.079 min Scan# 5
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 53 Resp: 7720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 76.3 | 67.1 | 100.7 |
| 51 | 38.0 | 31.4 | 47.0 |

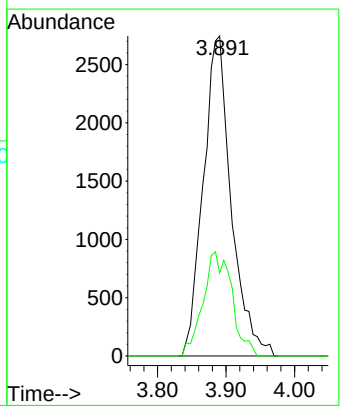


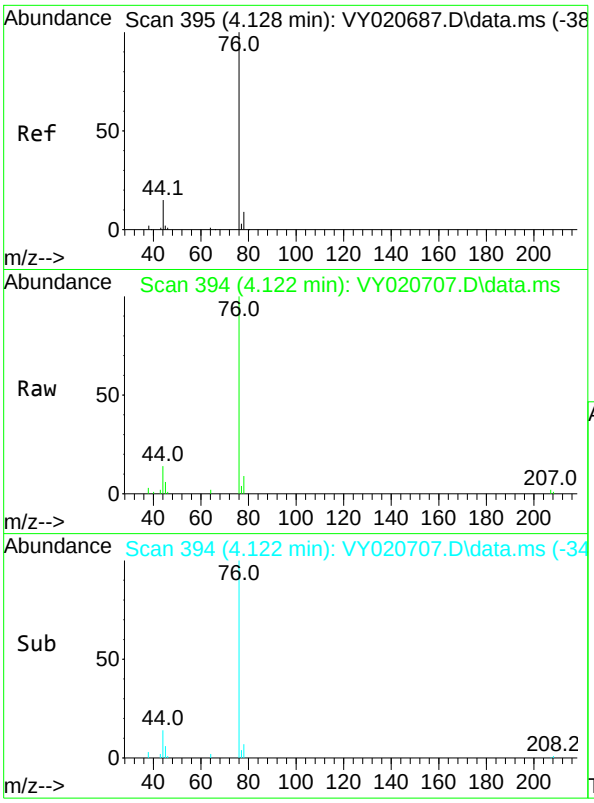




#16
Acetone
Concen: 65.764 ug/l
RT: 3.891 min Scan# 356
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 7777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 26.0 | 25.0 | 37.6 |



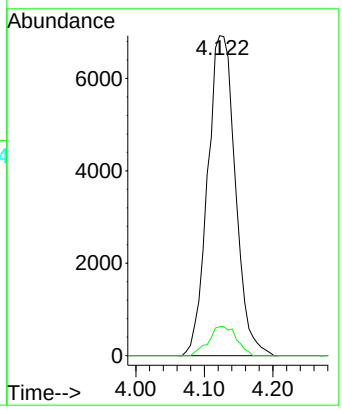


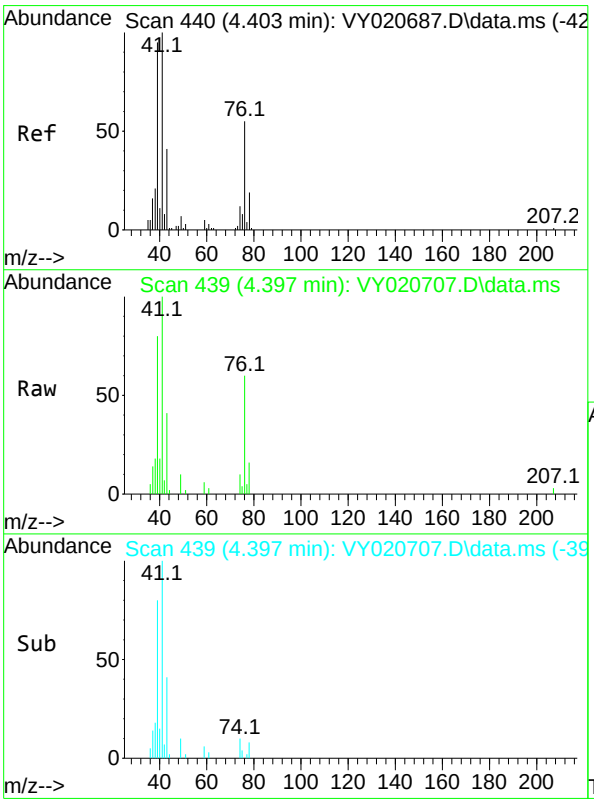

#17
Carbon Disulfide
Concen: 10.187 ug/l
RT: 4.122 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 76 Resp: 19437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 6.9 | 10.3 |

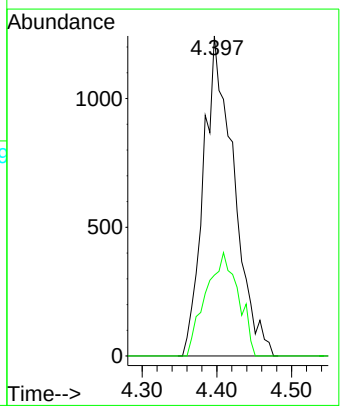


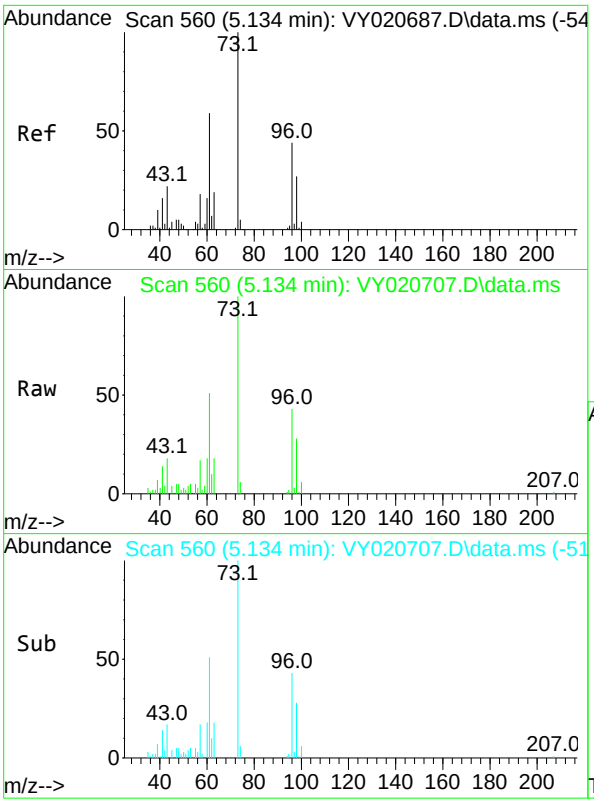




#18
Methyl Acetate
Concen: 10.992 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 3518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 34.4 | 25.3 | 37.9 |



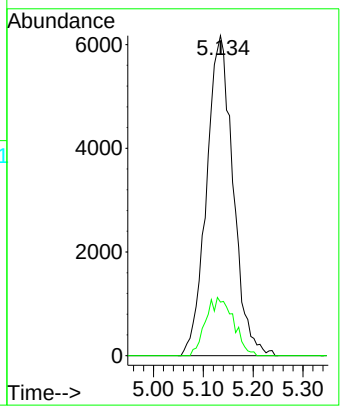


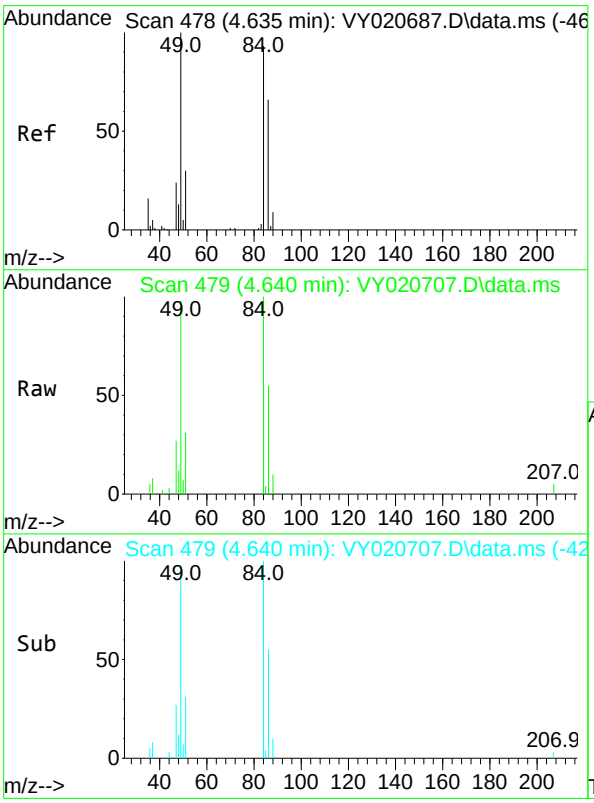

#19
Methyl tert-butyl Ether
Concen: 10.545 ug/l
RT: 5.134 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 73 Resp: 22860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 16.7 | 14.4 | 21.6 |

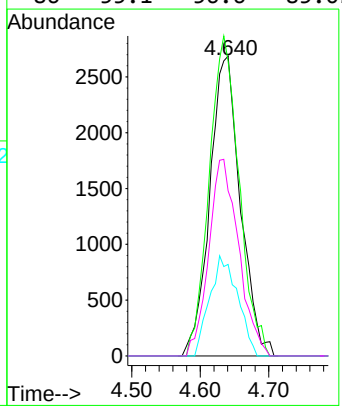


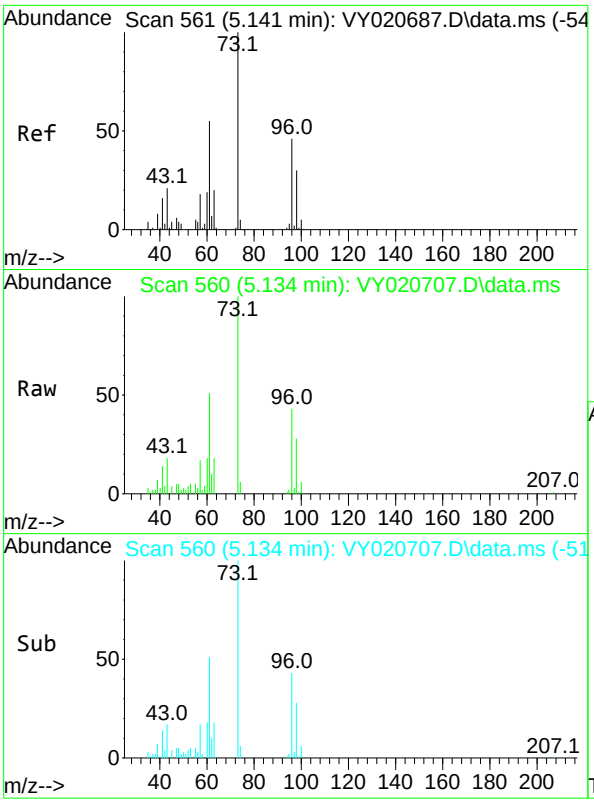




#20
Methylene Chloride
Concen: 10.812 ug/l
RT: 4.640 min Scan# 479
Delta R.T. 0.005 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 84 Resp: 8316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 98.3 | 86.4 | 129.6 |
| 51 | 30.5 | 25.5 | 38.3 |
| 86 | 55.1 | 56.6 | 85.0# |



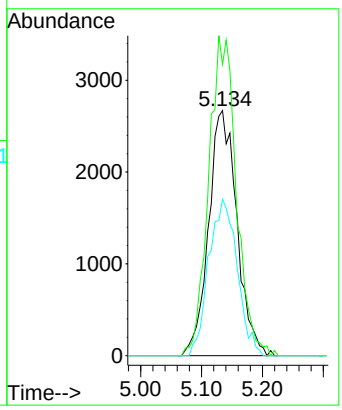


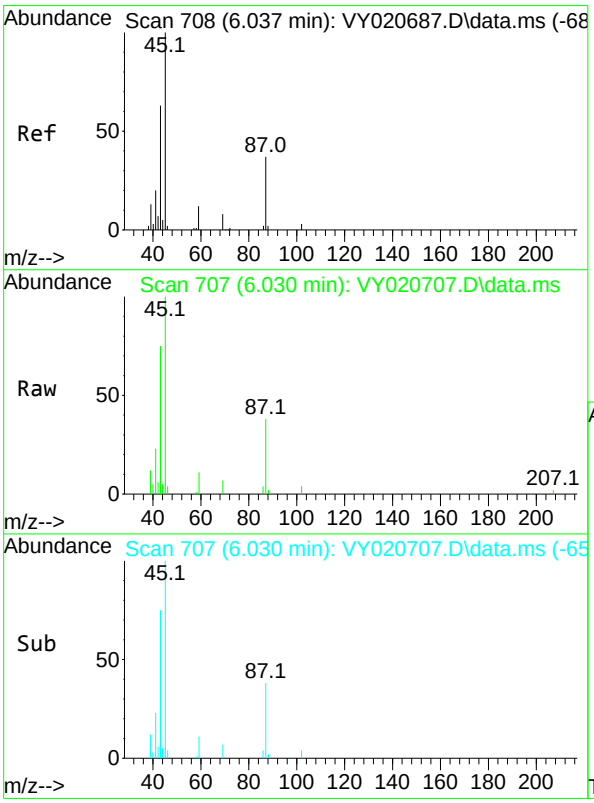

#21
trans-1,2-Dichloroethene
Concen: 10.261 ug/l
RT: 5.134 min Scan# 5
Delta R.T. -0.007 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 96 Resp: 8600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.9 | 96.1 | 144.1 |
| 98 | 63.8 | 52.7 | 79.1 |

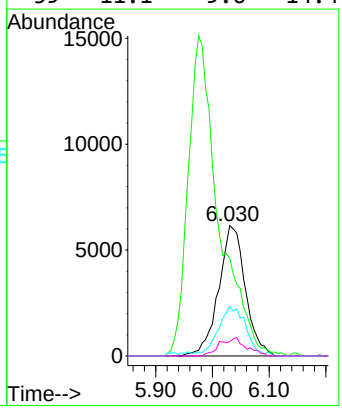


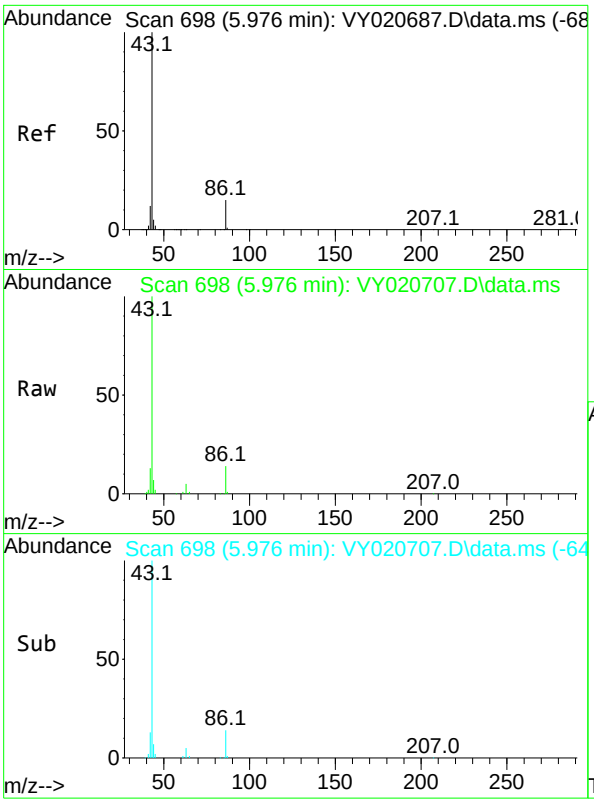




#22
Diisopropyl ether
Concen: 10.869 ug/l
RT: 6.030 min Scan# 707
Delta R.T. -0.007 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 45 Resp: 20110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 73.2 | 51.3 | 76.9 |
| 87 | 37.8 | 30.6 | 46.0 |
| 59 | 11.1 | 9.6 | 14.4 |



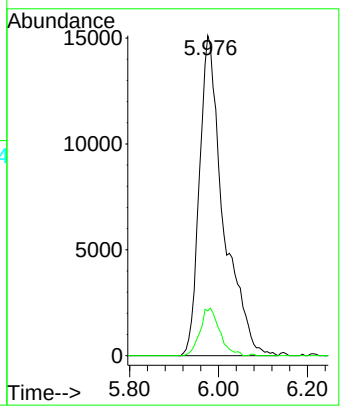


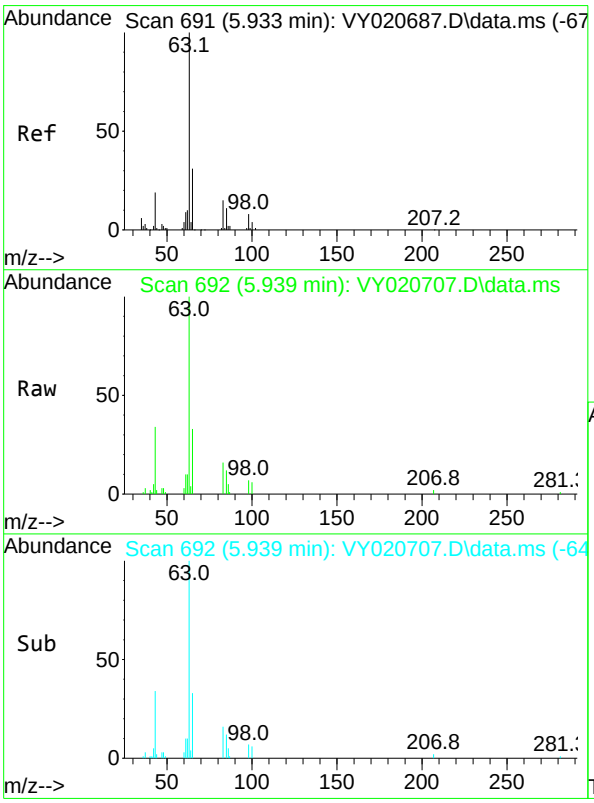

#23
Vinyl Acetate
Concen: 51.276 ug/l
RT: 5.976 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 56669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.0 | 12.0 | 18.0 |

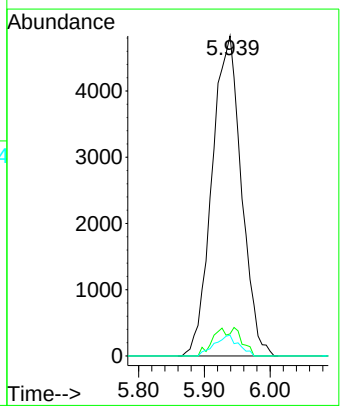


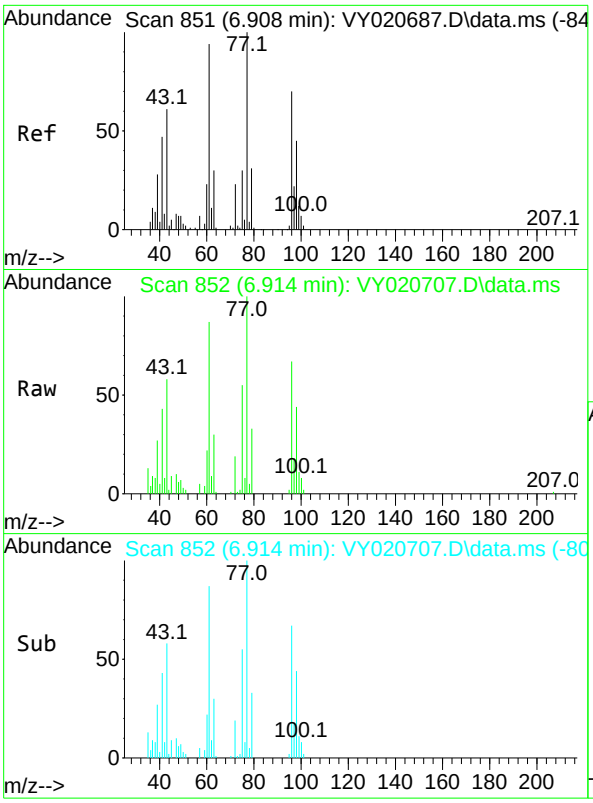




#24
1,1-Dichloroethane
Concen: 10.838 ug/l
RT: 5.939 min Scan# 692
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 63 Resp: 15035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 6.9 | 4.0 | 12.0 |
| 100 | 6.5 | 2.1 | 6.2# |



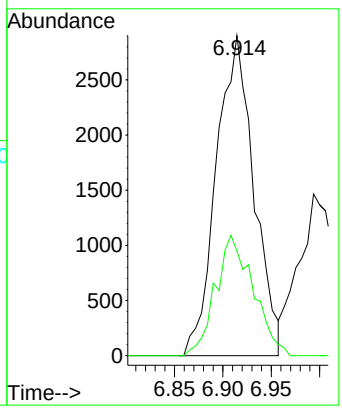


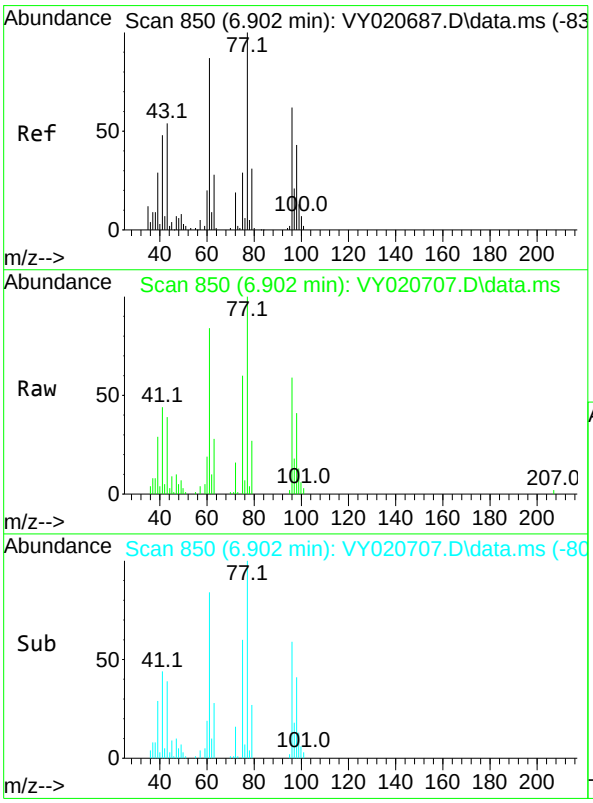

#25
2-Butanone
Concen: 49.191 ug/l
RT: 6.914 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 7858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 32.7 | 29.5 | 44.3 |

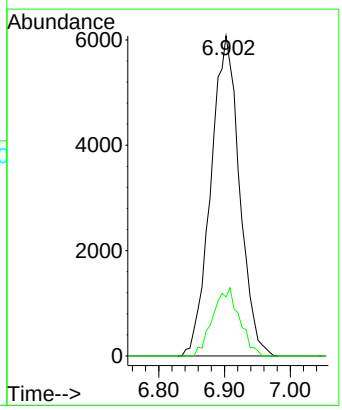


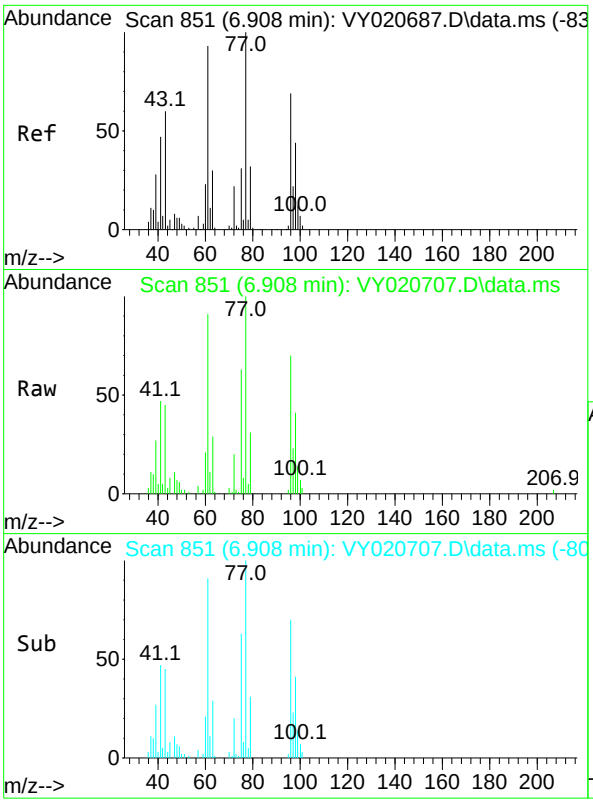




#26
2,2-Dichloropropane
Concen: 10.868 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 77 Resp: 18453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 19.8 | 10.8 | 32.4 |



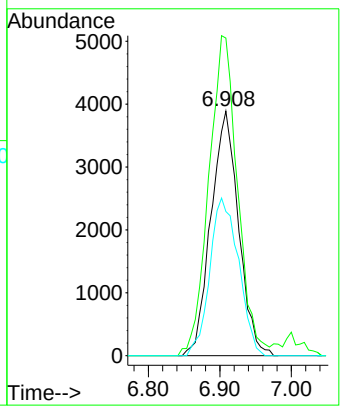


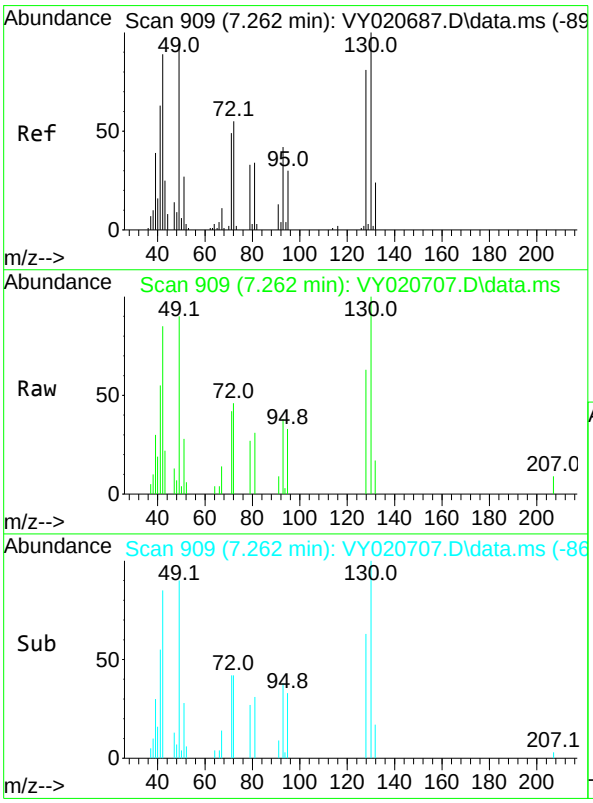

#27
cis-1,2-Dichloroethene
Concen: 10.425 ug/l
RT: 6.908 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 96 Resp: 10464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.6 | 0.0 | 277.2 |
| 98 | 66.9 | 0.0 | 131.0 |

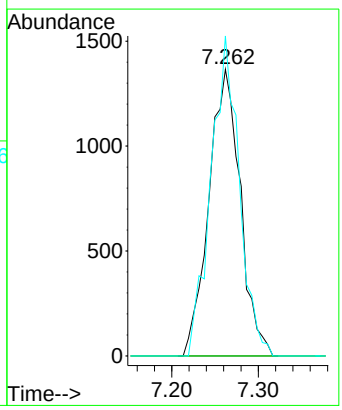


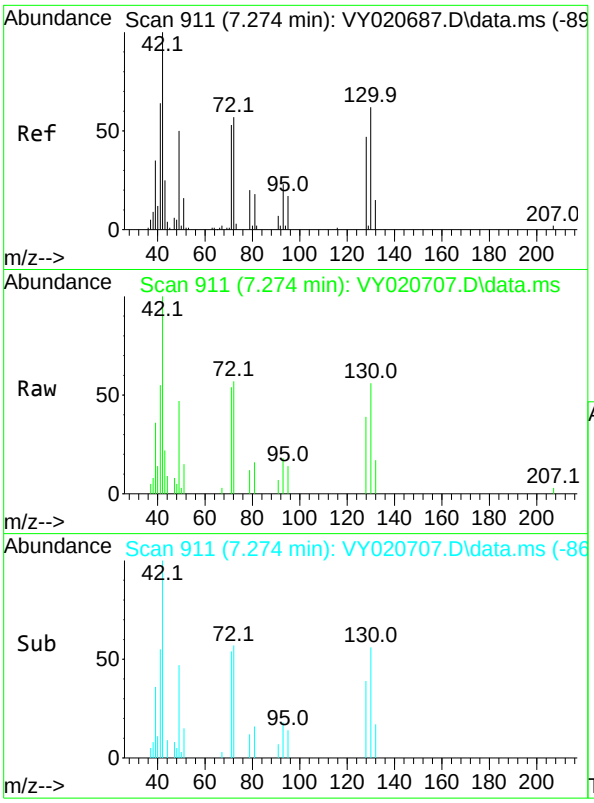




#28
Bromochloromethane
Concen: 9.369 ug/l
RT: 7.262 min Scan# 909
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 49 Resp: 3437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 5.4 |
| 130 | 101.0 | 87.2 | 130.8 |



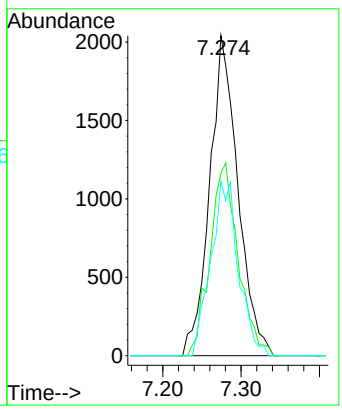


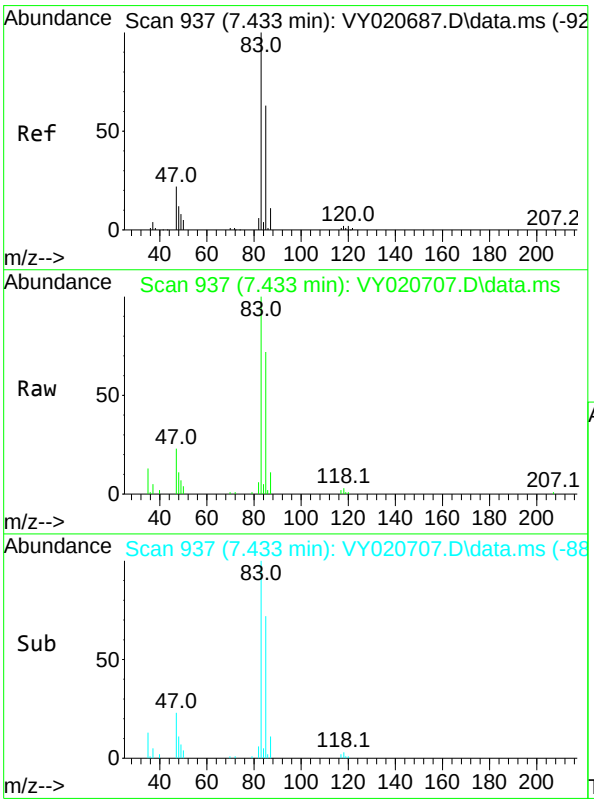

#29
Tetrahydrofuran
Concen: 52.267 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 42 Resp: 5125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 60.2 | 47.4 | 71.0 |
| 71 | 53.4 | 42.8 | 64.2 |

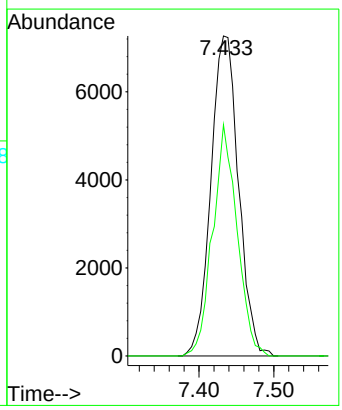


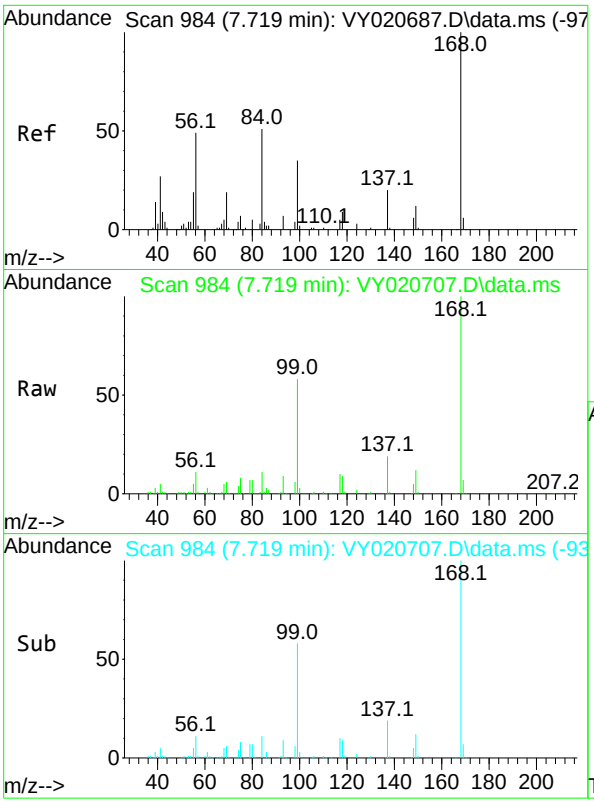




#30
Chloroform
Concen: 10.474 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 83 Resp: 18692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 72.2 | 50.2 | 75.2 |



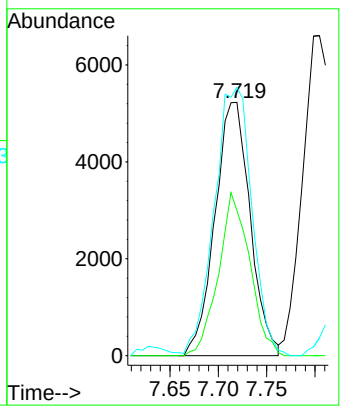


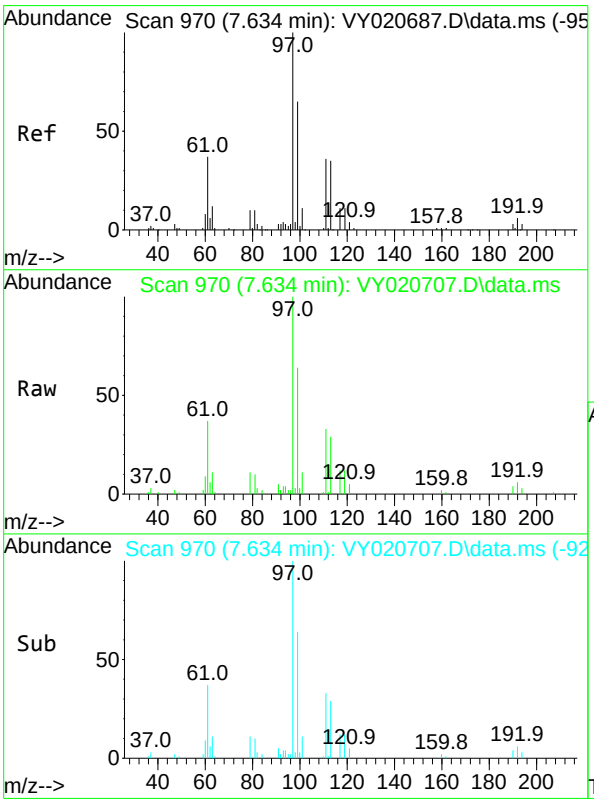

#31
Cyclohexane
Concen: 11.072 ug/l
RT: 7.719 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 56 Resp: 13258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 57.3 | 31.3 | 46.9# |
| 84 | 104.8 | 83.9 | 125.9 |

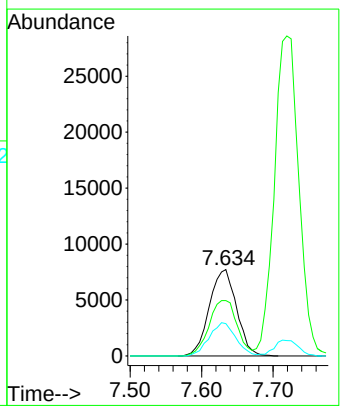


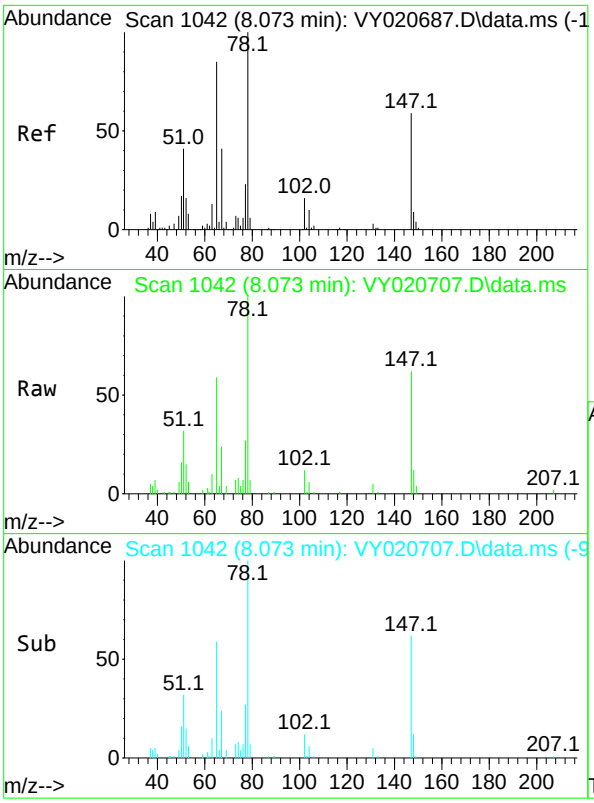




#32
1,1,1-Trichloroethane
Concen: 10.668 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 97 Resp: 20406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 66.3 | 51.0 | 76.6 |
| 61 | 37.6 | 30.0 | 45.0 |



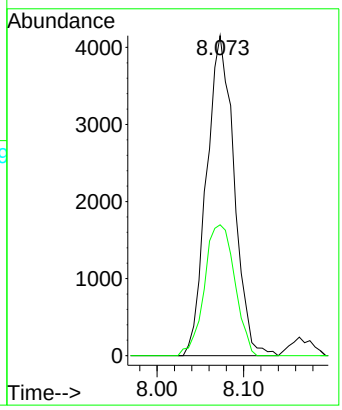


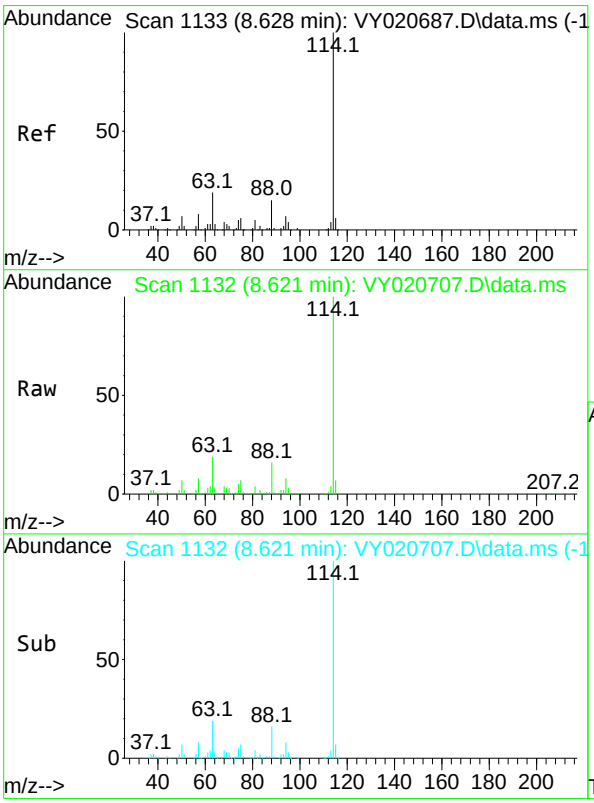

#33
1,2-Dichloroethane-d4
Concen: 9.814 ug/l
RT: 8.073 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 65 Resp: 9148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 45.1 | 0.0 | 98.0 |

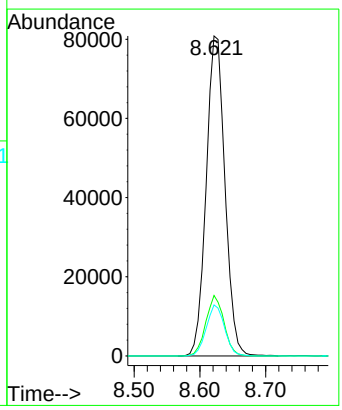


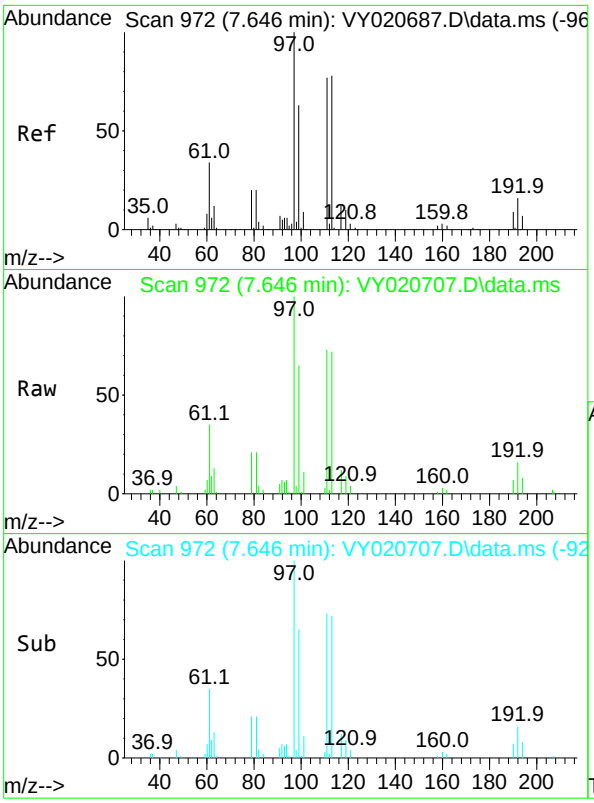




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 1132
Delta R.T. -0.007 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:114 Resp: 160513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.9 | 0.0 | 38.4 |
| 88 | 16.0 | 0.0 | 30.4 |



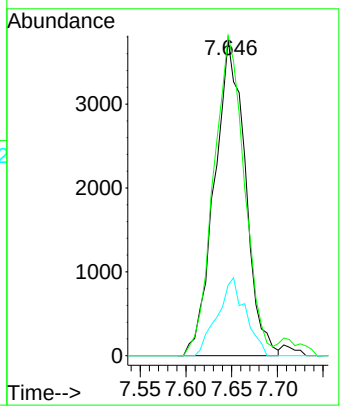


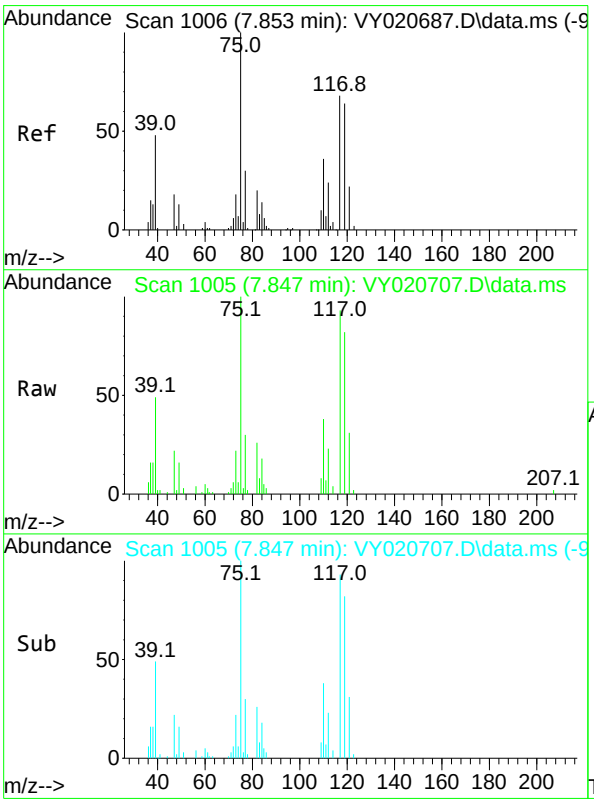

#35
Dibromofluoromethane
Concen: 9.966 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:113 Resp: 8811

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.3 | 79.8 | 119.8 |
| 192 | 22.6 | 17.0 | 25.6 |

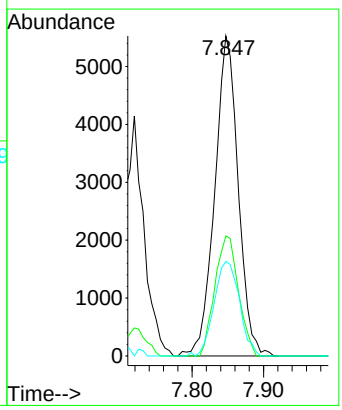


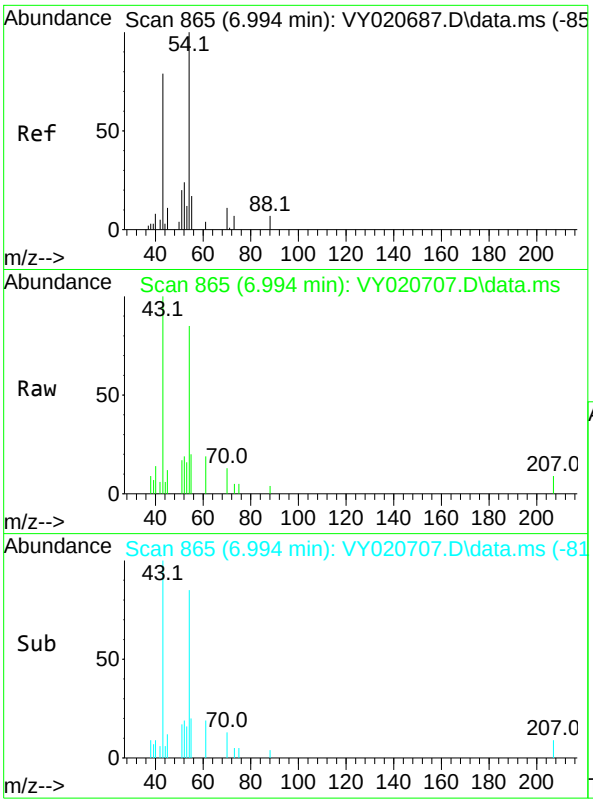




#36
1,1-Dichloropropene
Concen: 10.790 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 75 Resp: 12601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.7 | 19.6 | 58.7 |
| 77 | 31.8 | 25.1 | 37.7 |



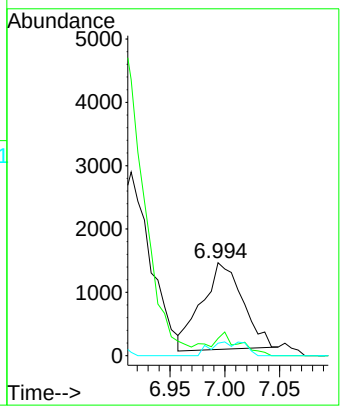


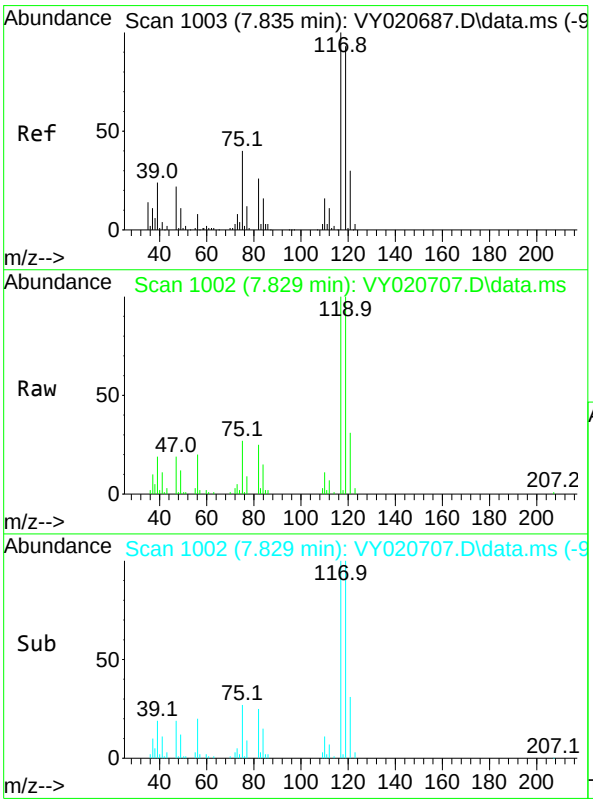

#37
Ethyl Acetate
Concen: 9.217 ug/l
RT: 6.994 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 3547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.7 | 11.7 | 17.5 |
| 70 | 13.5 | 11.0 | 16.4 |

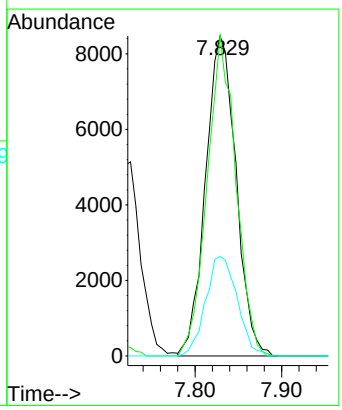


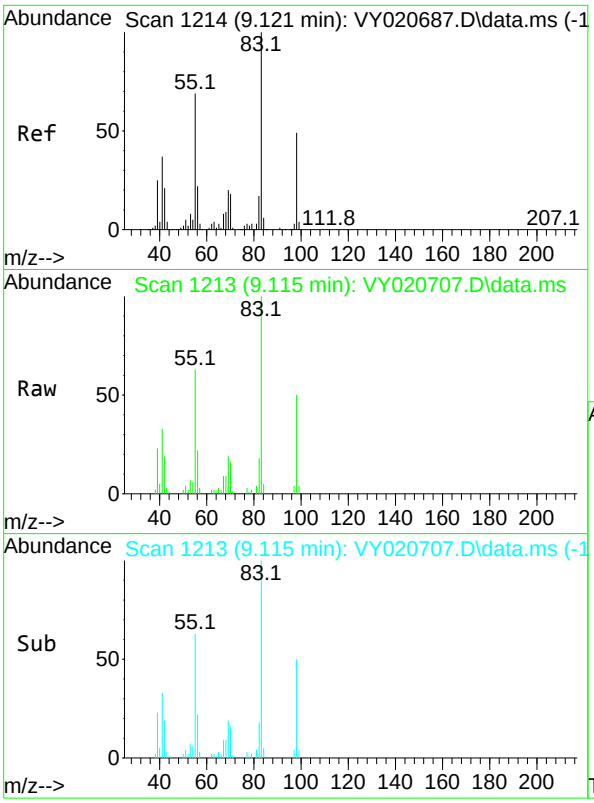




#38
Carbon Tetrachloride
Concen: 10.755 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:117 Resp: 20683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 100.0 | 74.4 | 111.6 |
| 121 | 31.1 | 24.2 | 36.2 |



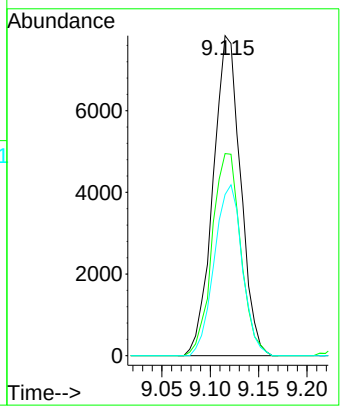


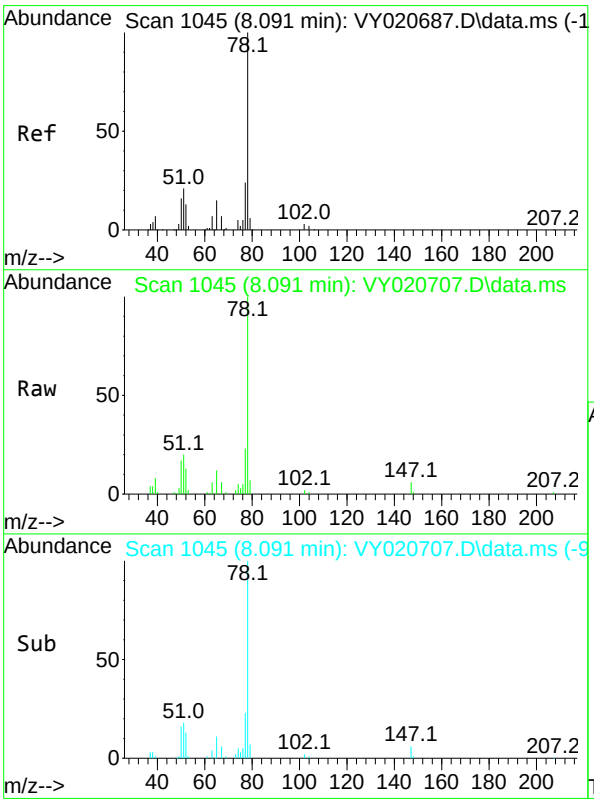

#39
Methylcyclohexane
Concen: 10.353 ug/l
RT: 9.115 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 15497

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 63.2 | 55.0 | 82.4 |
| 98 | 50.4 | 39.0 | 58.6 |

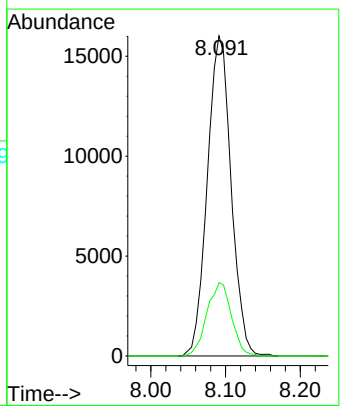


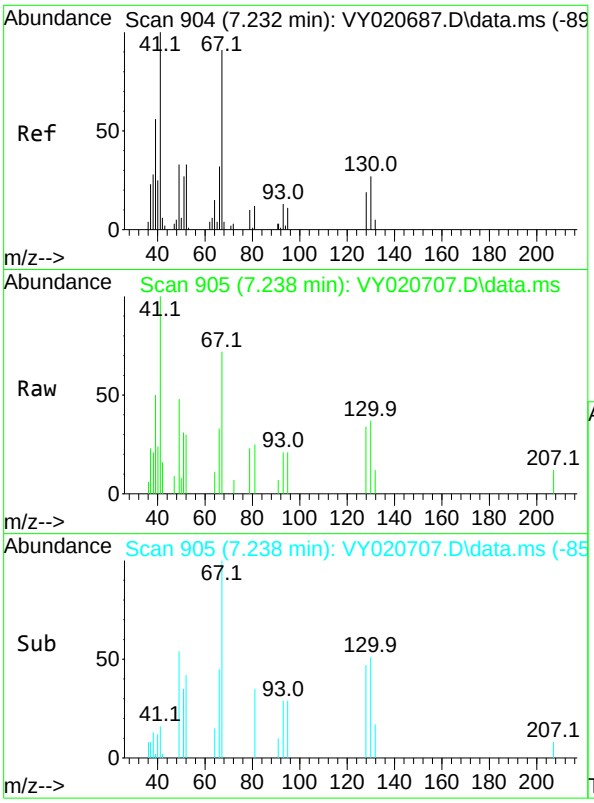




#40
Benzene
Concen: 10.473 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 78 Resp: 35447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.9 | 19.2 | 28.8 |



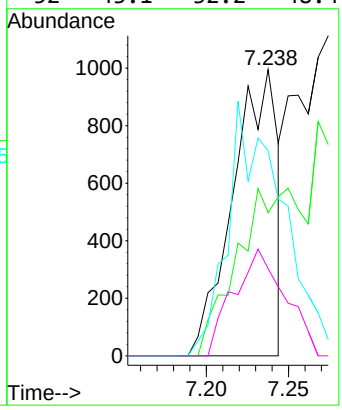


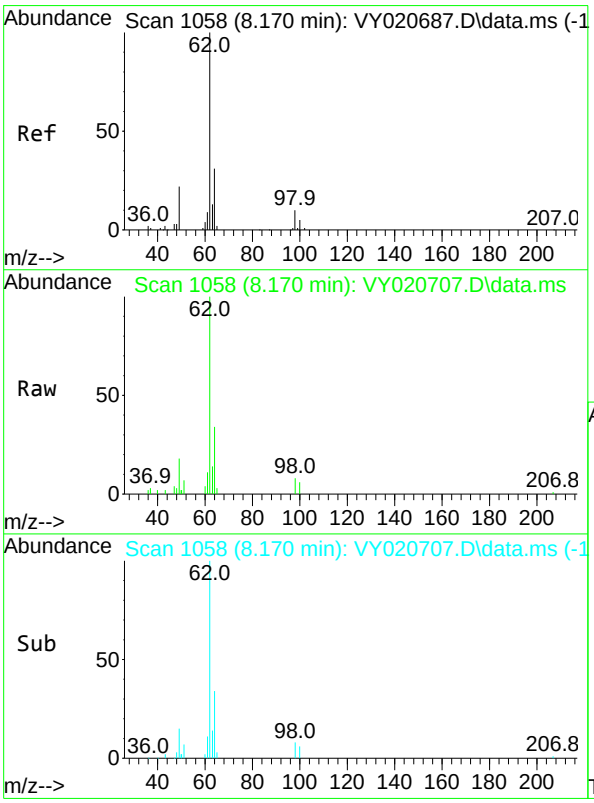

#41
Methacrylonitrile
Concen: 9.650 ug/l
RT: 7.238 min Scan# 9
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 41 Resp: 1876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 0.0 | 46.6 | 70.0# |
| 67 | 108.0 | 74.7 | 112.1 |
| 52 | 43.1 | 32.2 | 48.4 |

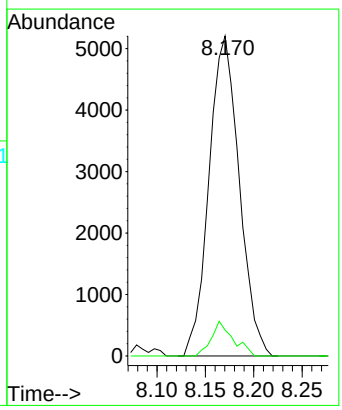


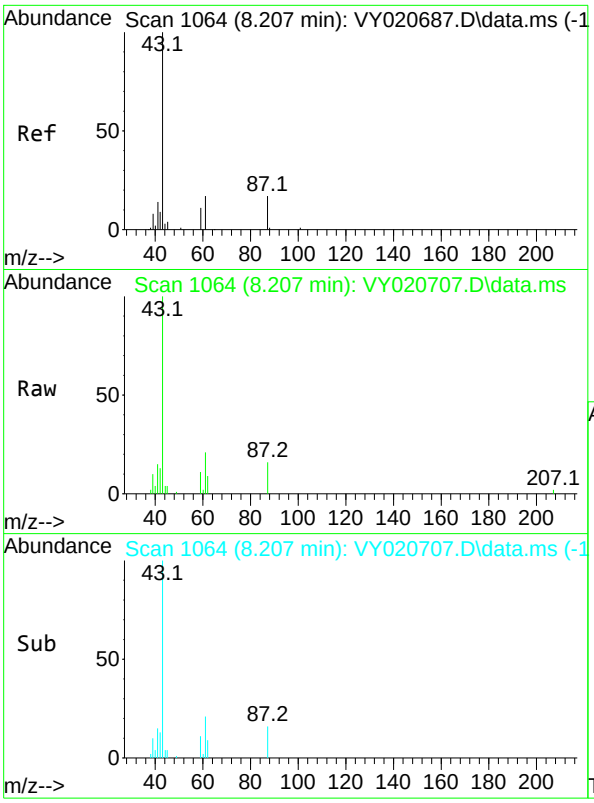




#42
1,2-Dichloroethane
Concen: 10.424 ug/l
RT: 8.170 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 62 Resp: 11313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 7.8 | 0.0 | 16.6 |



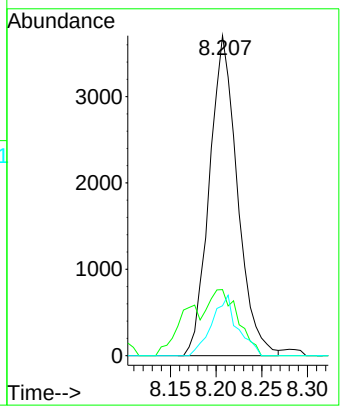


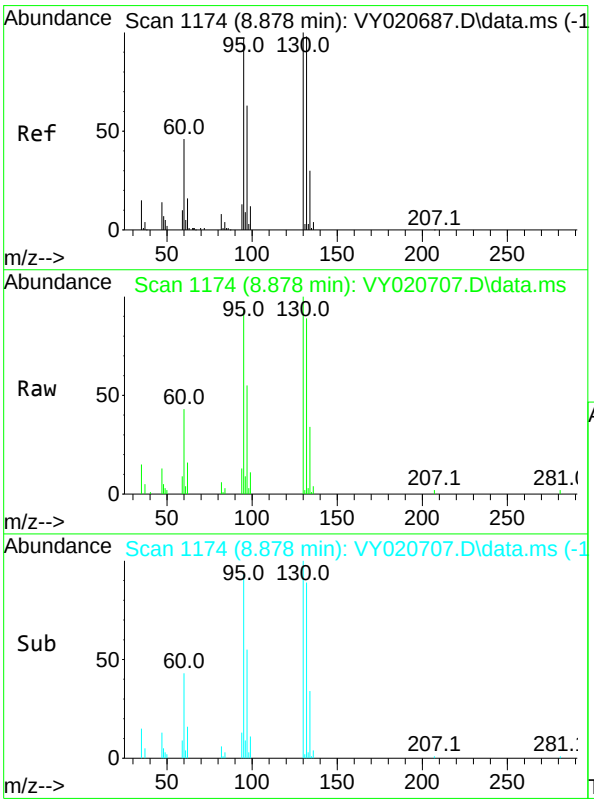

#43
Isopropyl Acetate
Concen: 9.664 ug/l
RT: 8.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 7905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 22.6 | 27.0 | 40.4# |
| 87 | 17.3 | 14.2 | 21.4 |

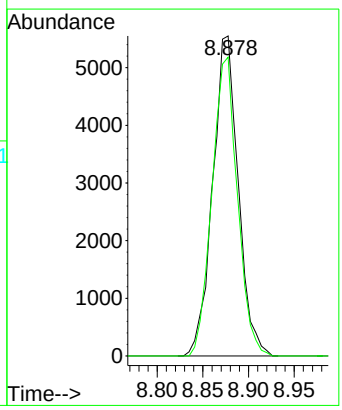


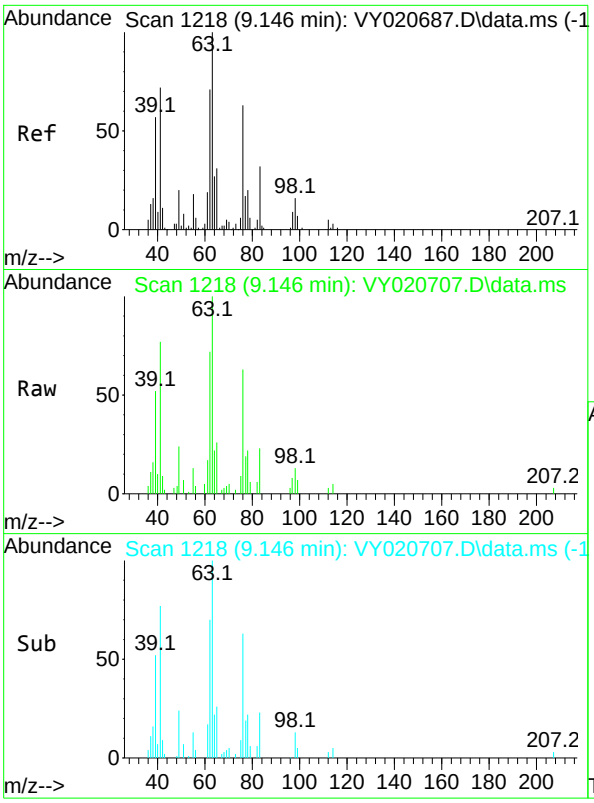




#44
Trichloroethene
Concen: 10.673 ug/l
RT: 8.878 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:130 Resp: 10790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.4 | 0.0 | 194.8 |



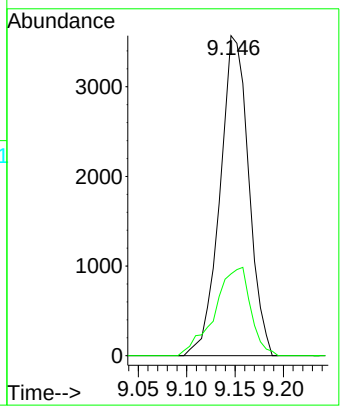


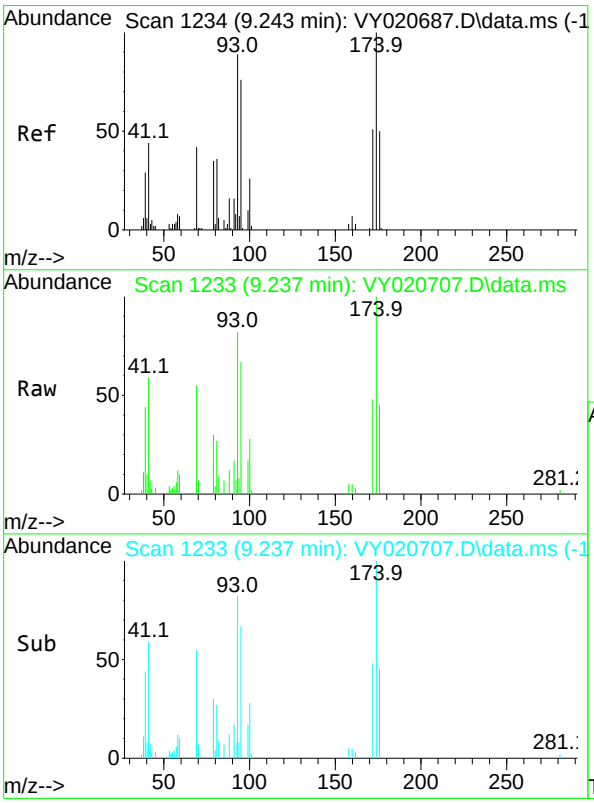

#45
1,2-Dichloropropane
Concen: 10.767 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 63 Resp: 7377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 25.6 | 24.6 | 36.8 |

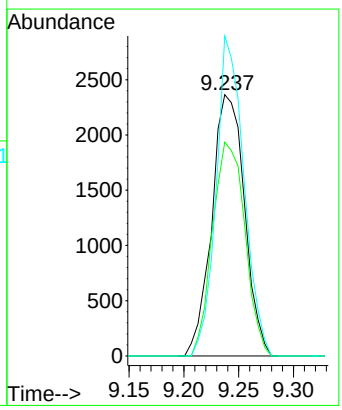


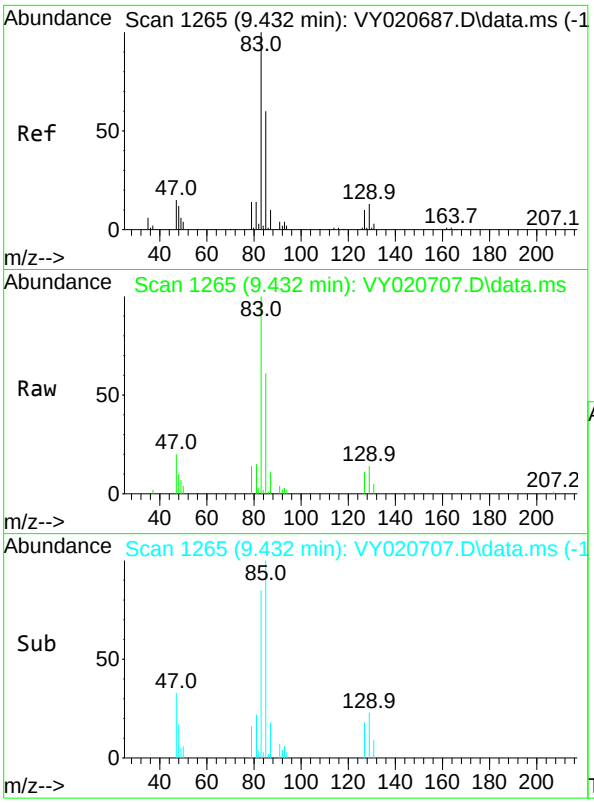




#46
Dibromomethane
Concen: 10.336 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 93 Resp: 4900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.9 | 67.8 | 101.8 |
| 174 | 104.0 | 89.4 | 134.0 |



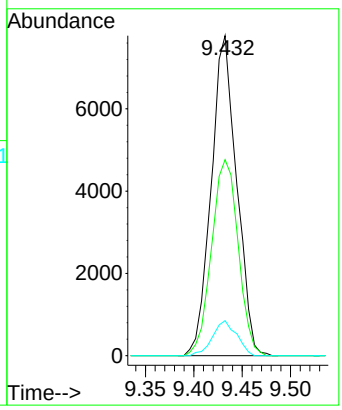


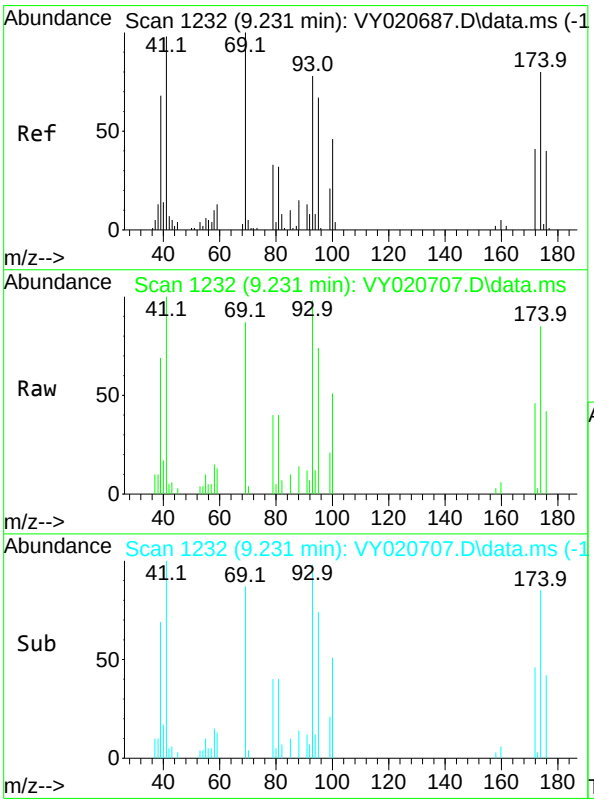

#47
Bromodichloromethane
Concen: 10.599 ug/l
RT: 9.432 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 14245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.2 | 47.6 | 71.4 |
| 127 | 11.0 | 7.9 | 11.9 |

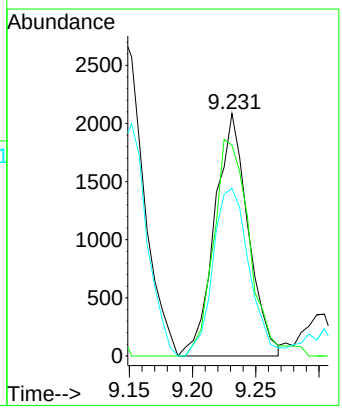


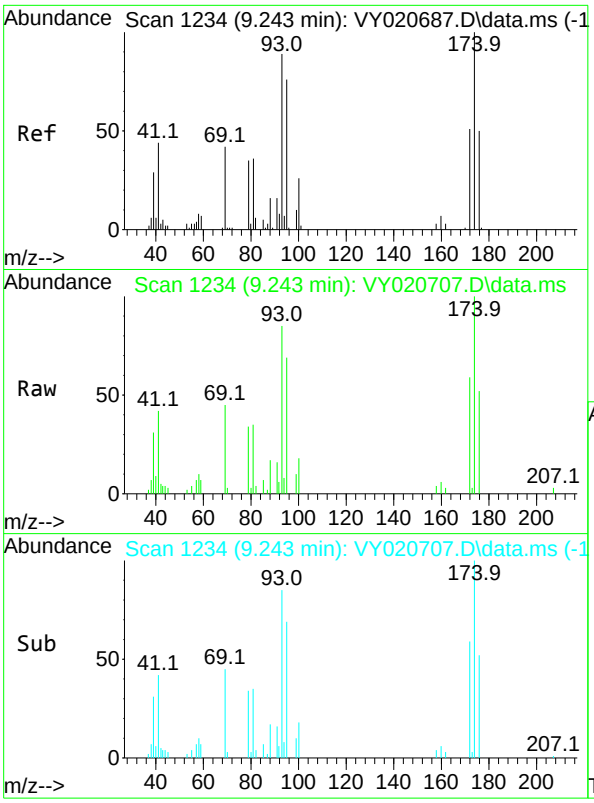




#48
Methyl methacrylate
Concen: 10.018 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 41 Resp: 3827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 96.4 | 83.1 | 124.7 |
| 39 | 74.5 | 57.3 | 85.9 |



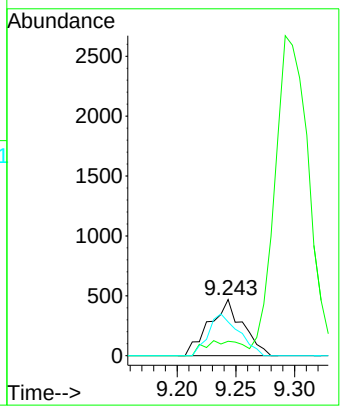


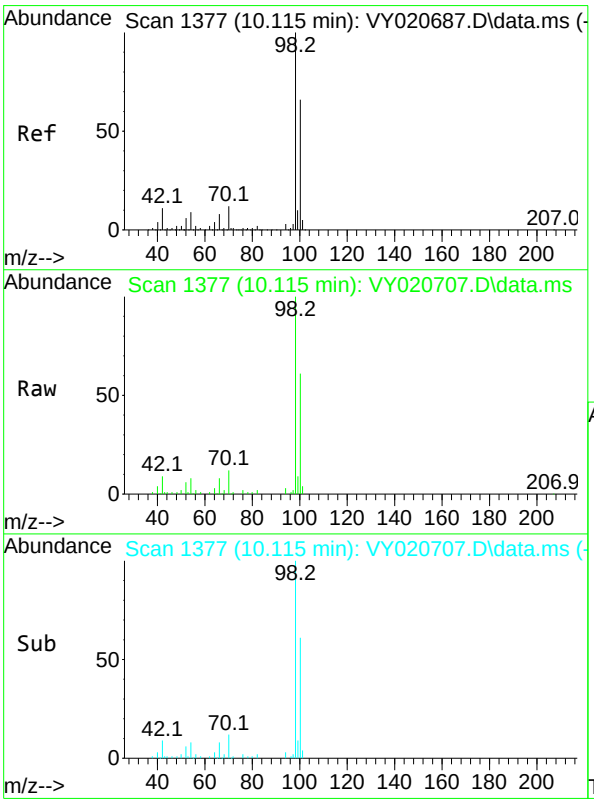

#49
1,4-Dioxane
Concen: 204.624 ug/l
RT: 9.243 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 88 Resp: 924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.6 | 22.1 | 33.1 |
| 58 | 67.9 | 46.7 | 70.1 |

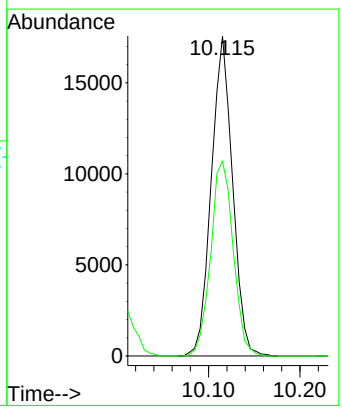


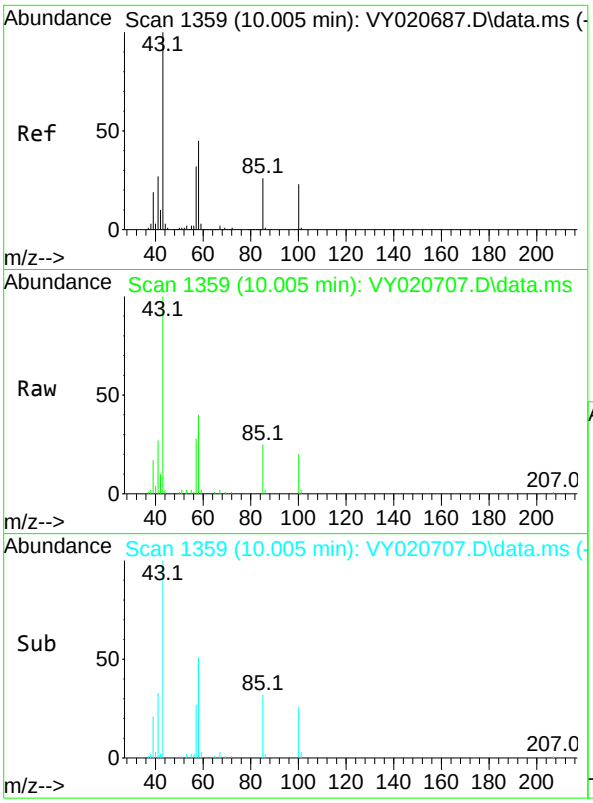




#50
Toluene-d8
Concen: 9.506 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 98 Resp: 28333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.7 | 52.2 | 78.4 |



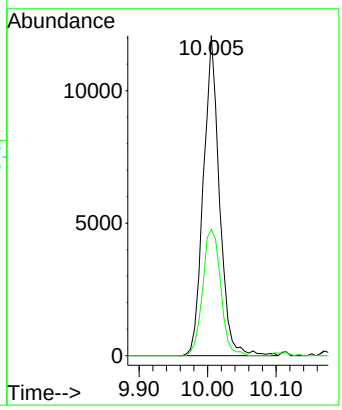


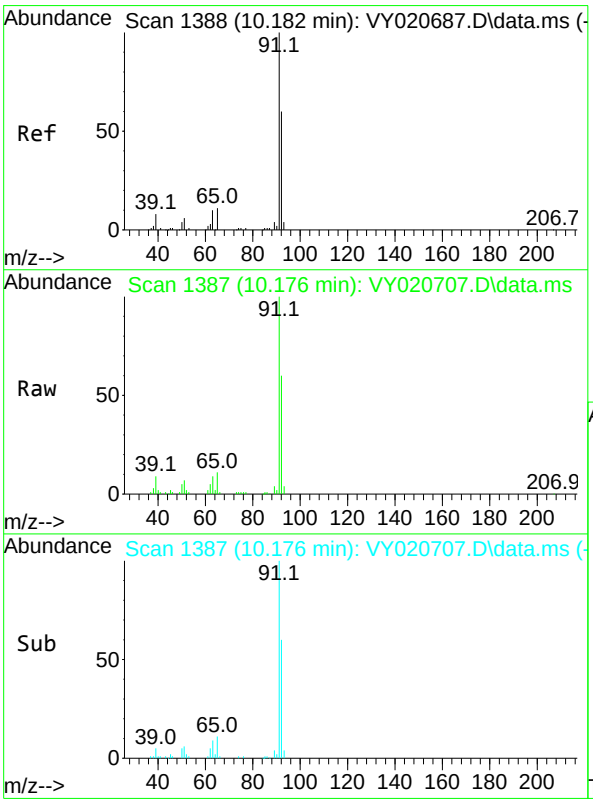

#51
4-Methyl-2-Pentanone
Concen: 49.951 ug/l
RT: 10.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 19722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.2 | 35.1 | 52.7 |

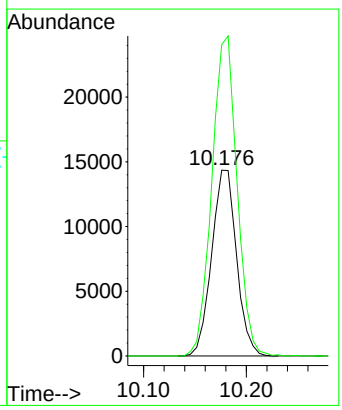


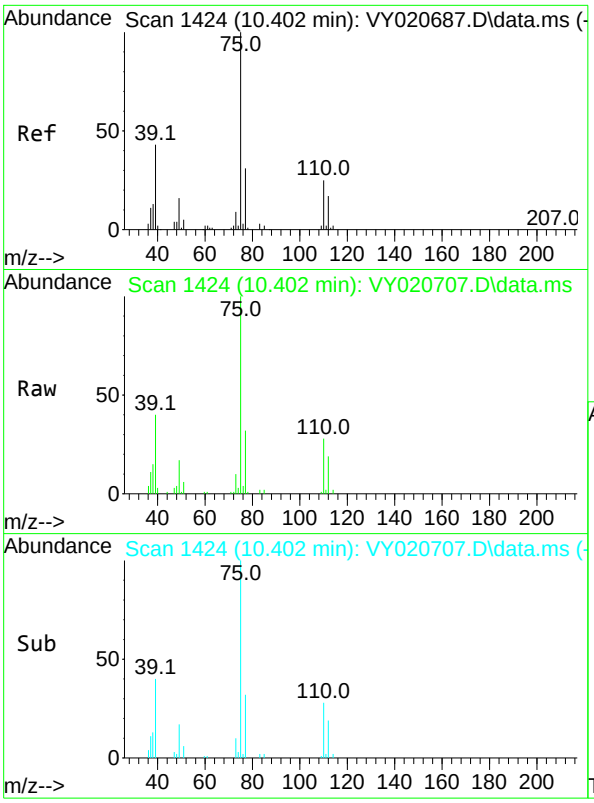




#52
Toluene
Concen: 10.393 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 92 Resp: 24111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.2 | 137.7 | 206.5 |



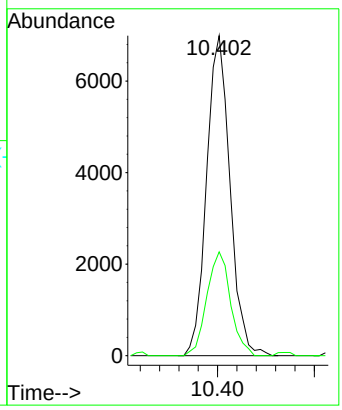


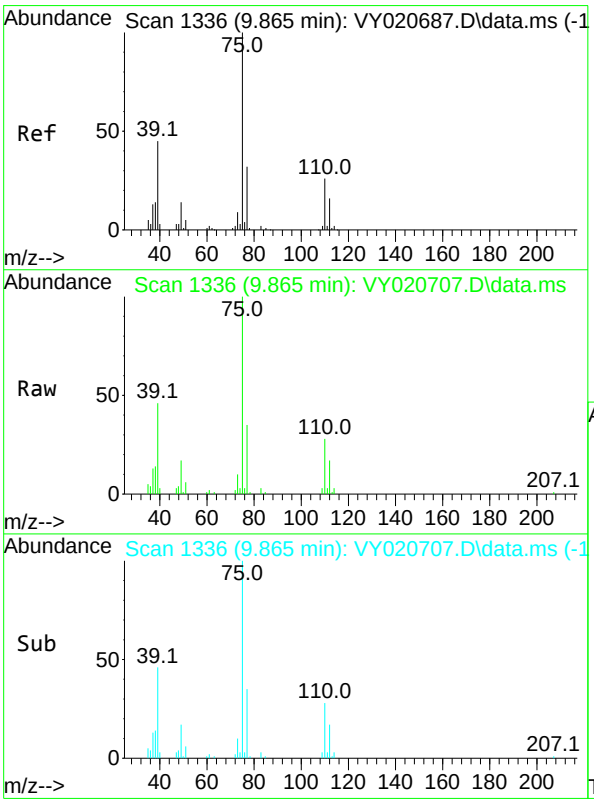

#53
t-1,3-Dichloropropene
Concen: 9.942 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 75 Resp: 11736

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.1 | 37.7 |

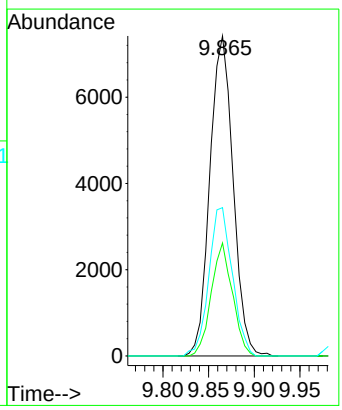


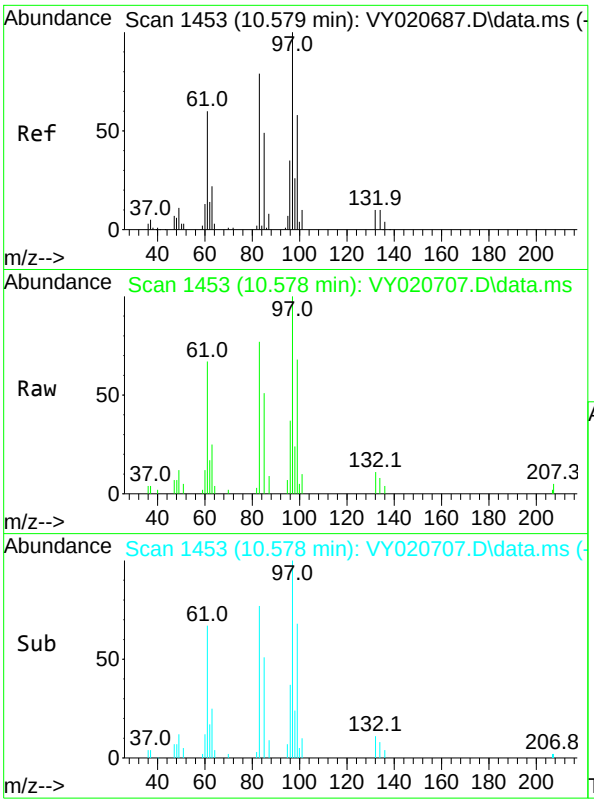




#54
cis-1,3-Dichloropropene
Concen: 10.121 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 75 Resp: 13095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 35.3 | 25.6 | 38.4 |
| 39 | 46.4 | 36.2 | 54.2 |



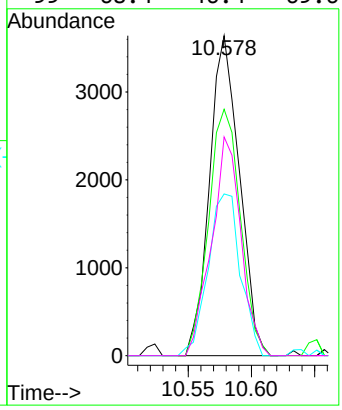


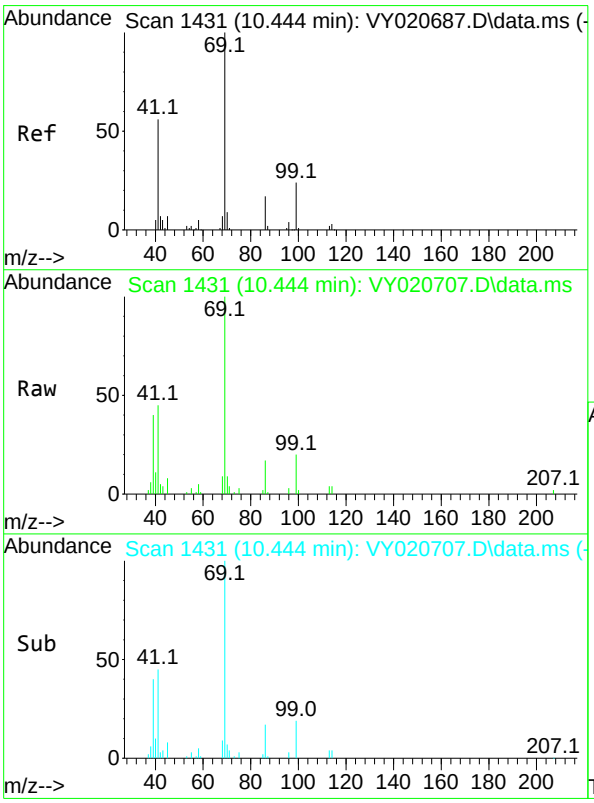

#55
1,1,2-Trichloroethane
Concen: 9.902 ug/l
RT: 10.578 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 97 Resp: 5992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 77.0 | 63.1 | 94.7 |
| 85 | 50.5 | 39.5 | 59.3 |
| 99 | 68.4 | 46.4 | 69.6 |

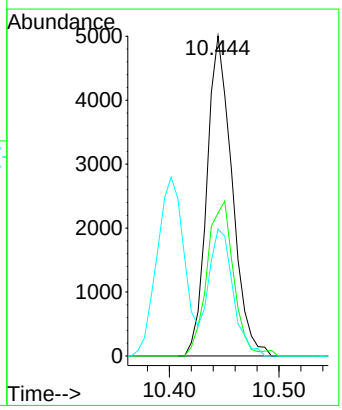


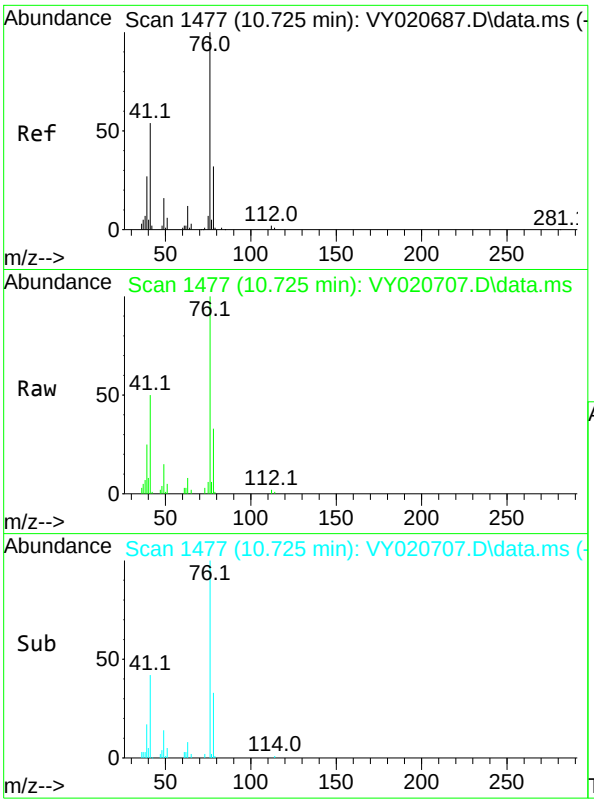




#56
Ethyl methacrylate
Concen: 10.046 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 69 Resp: 7986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 51.3 | 43.8 | 65.6 |
| 39 | 38.2 | 32.0 | 48.0 |



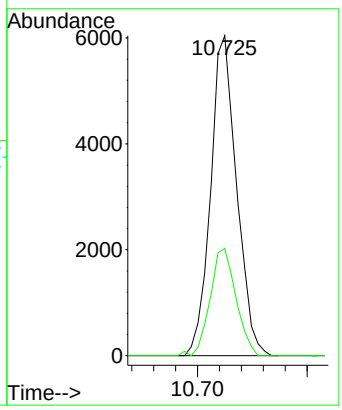


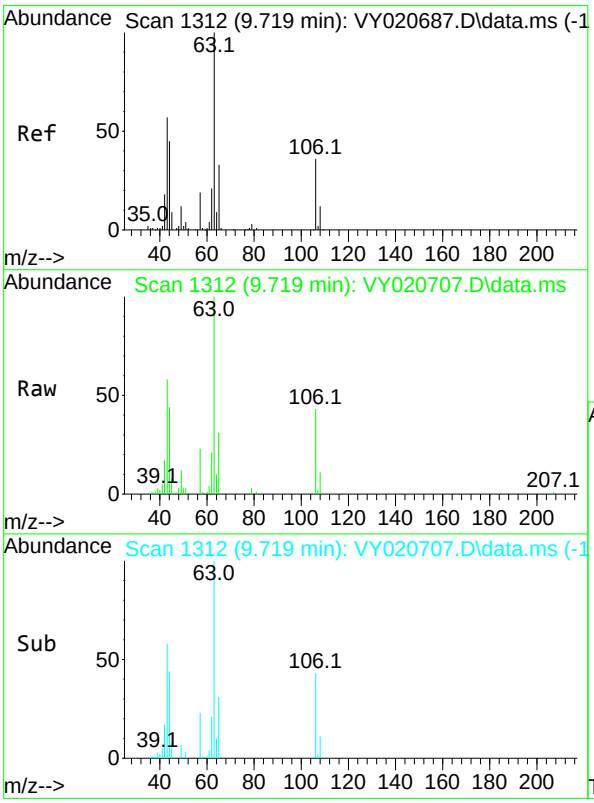

#57
1,3-Dichloropropane
Concen: 10.137 ug/l
RT: 10.725 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 76 Resp: 9956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.2 | 25.0 | 37.6 |

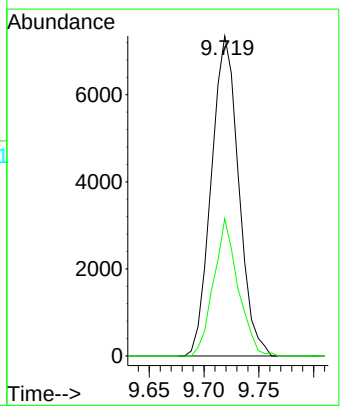


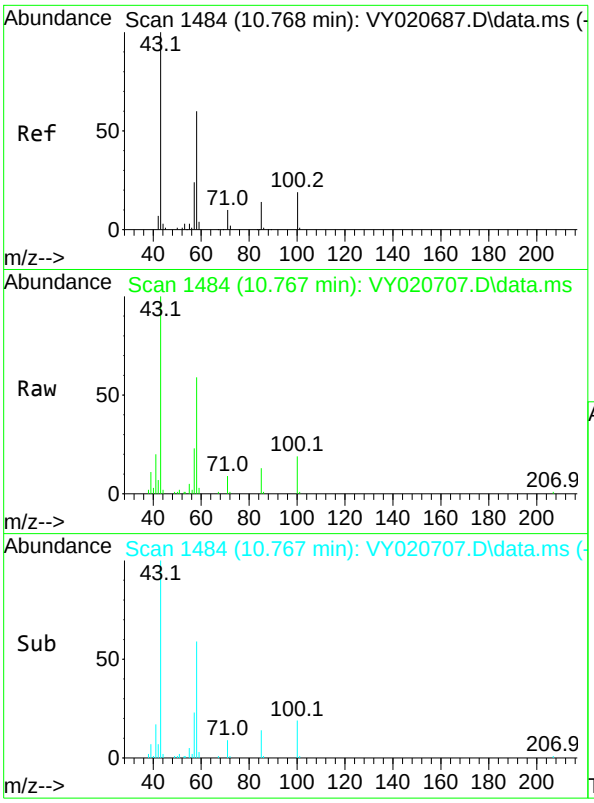




#58
2-Chloroethyl Vinyl ether
Concen: 45.957 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 63 Resp: 12740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 38.4 | 29.1 | 43.7 |



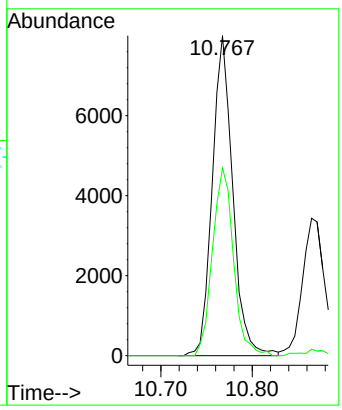


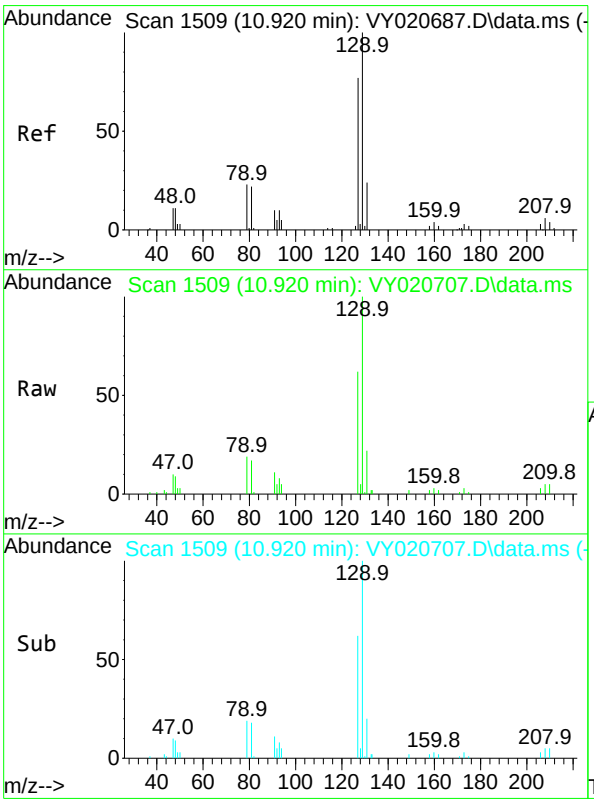

#59
2-Hexanone
Concen: 47.628 ug/l
RT: 10.767 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 43 Resp: 12416

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.3 | 30.1 | 90.5 |

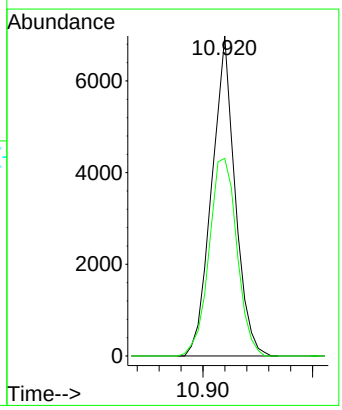


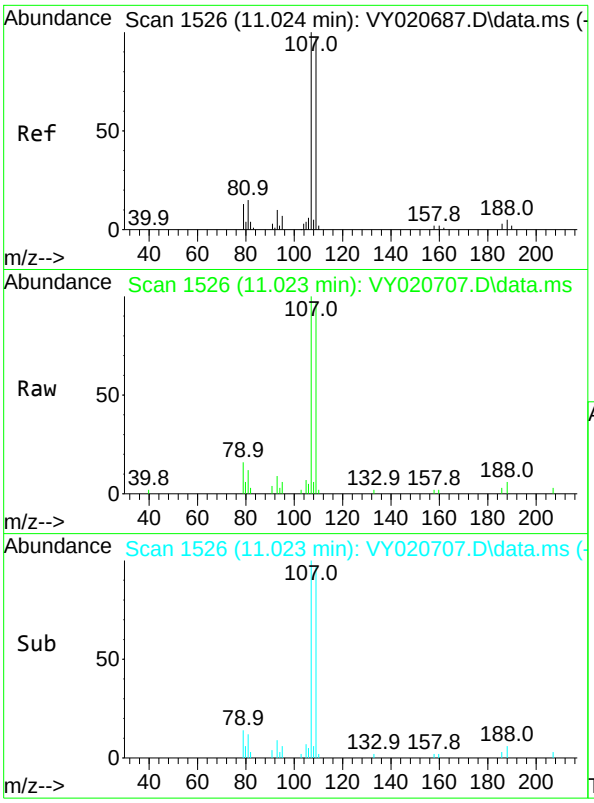




#60
Dibromochloromethane
Concen: 10.554 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:129 Resp: 10320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 73.5 | 38.5 | 115.5 |



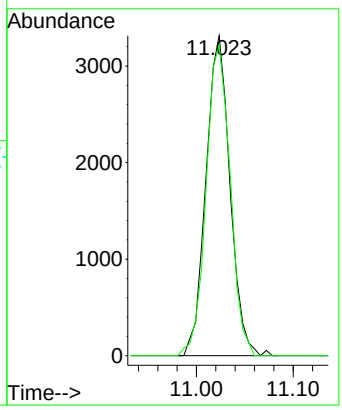


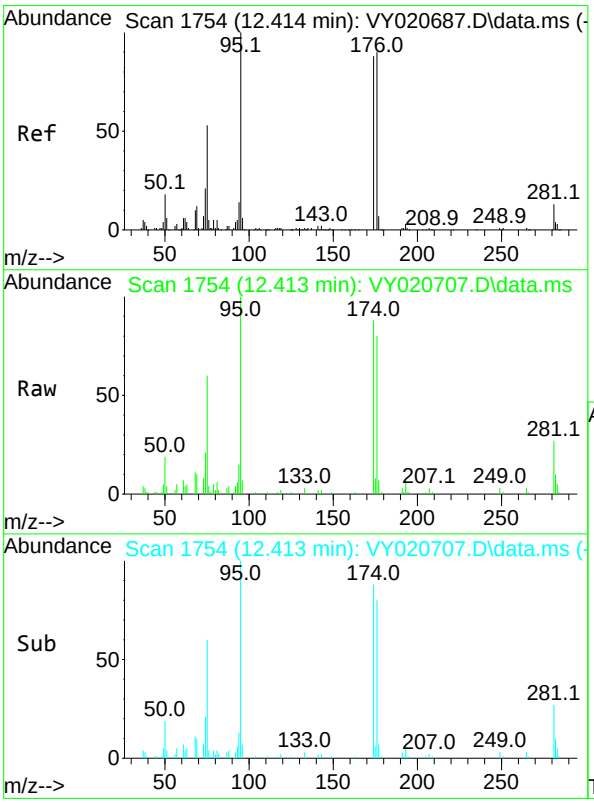

#61
1,2-Dibromoethane
Concen: 10.067 ug/l
RT: 11.023 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:107 Resp: 5732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.9 | 75.5 | 113.3 |

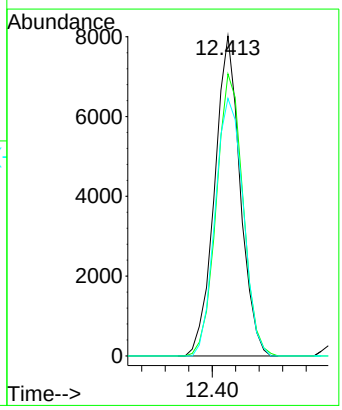


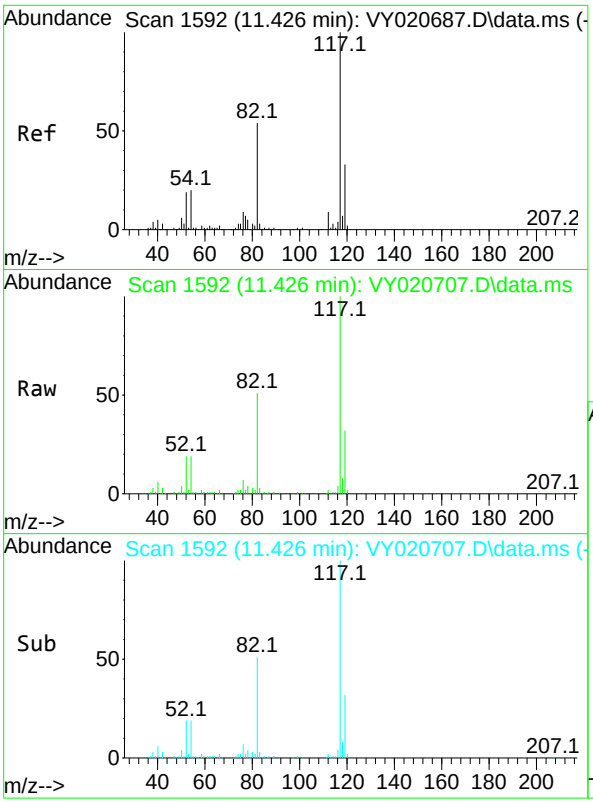




#62
4-Bromofluorobenzene
Concen: 10.336 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 95 Resp: 12144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.5 | 0.0 | 179.2 |
| 176 | 88.1 | 0.0 | 179.8 |



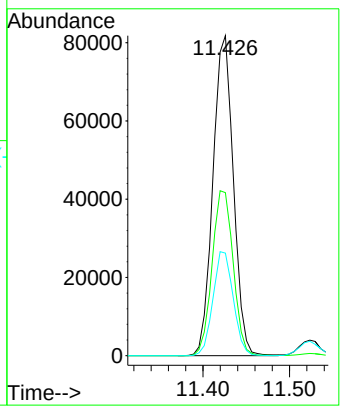


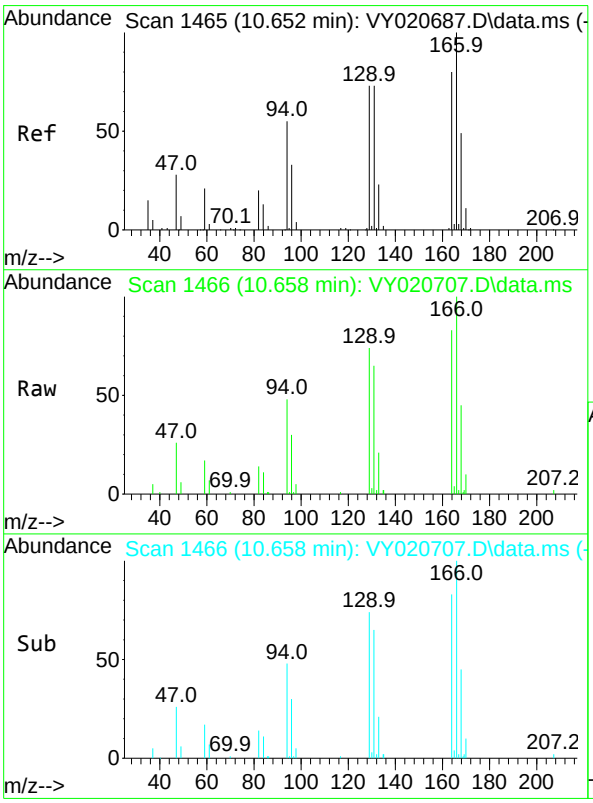

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:117 Resp: 134187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.9 | 43.4 | 65.2 |
| 119 | 32.0 | 26.6 | 39.8 |

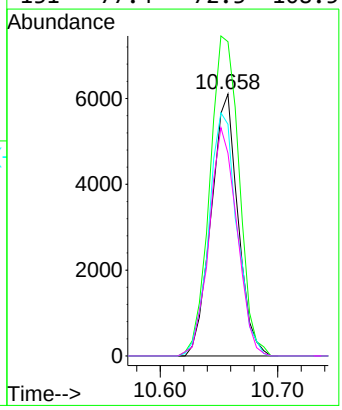


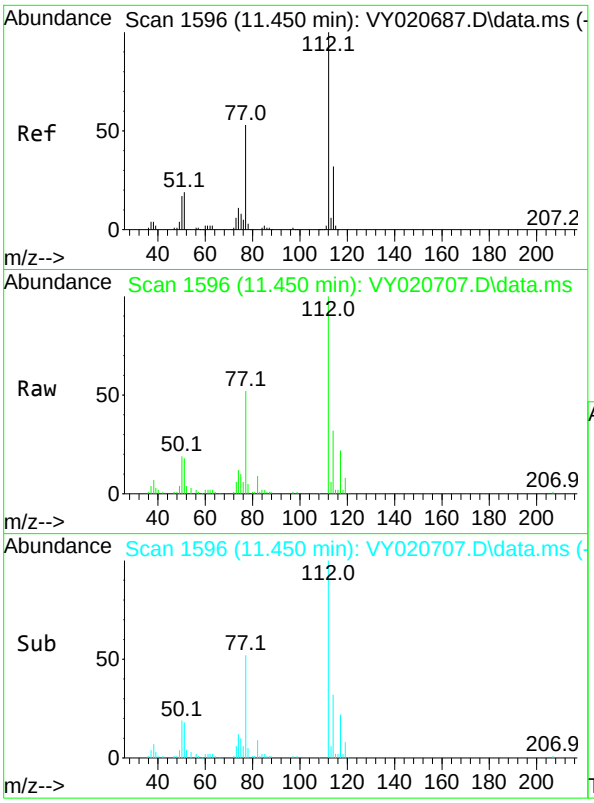




#64
Tetrachloroethene
Concen: 10.530 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:164 Resp: 9654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 120.0 | 99.6 | 149.4 |
| 129 | 88.5 | 73.0 | 109.4 |
| 131 | 77.4 | 72.3 | 108.5 |



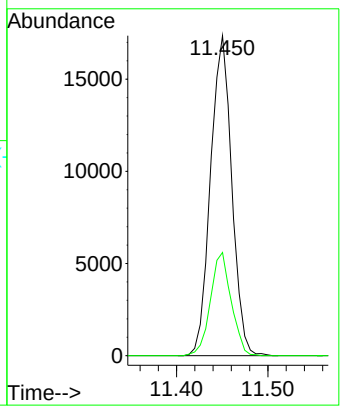


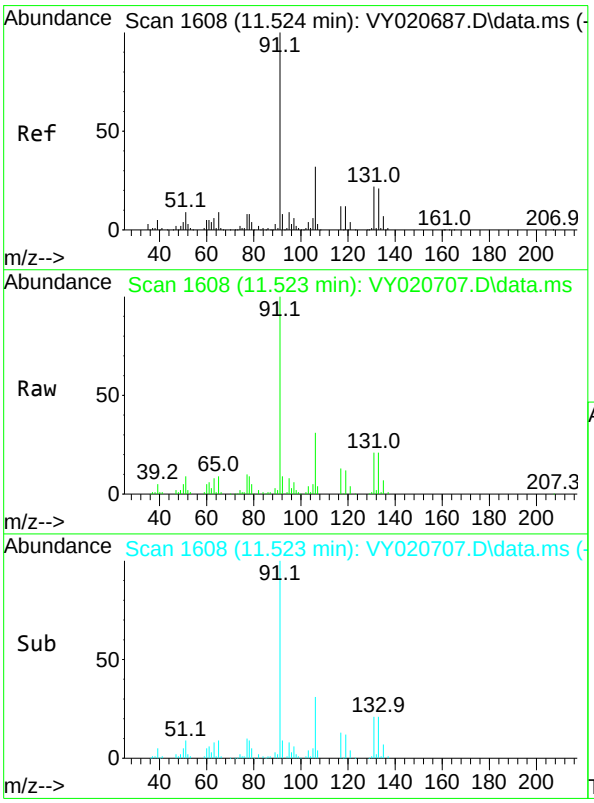

#65
Chlorobenzene
Concen: 10.661 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:112 Resp: 28012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 25.4 | 38.0 |

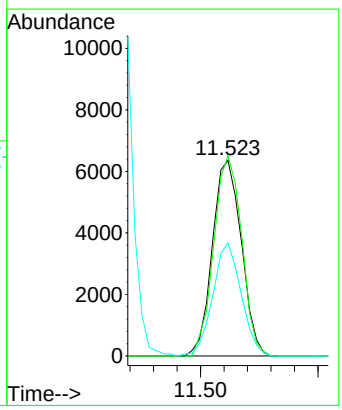


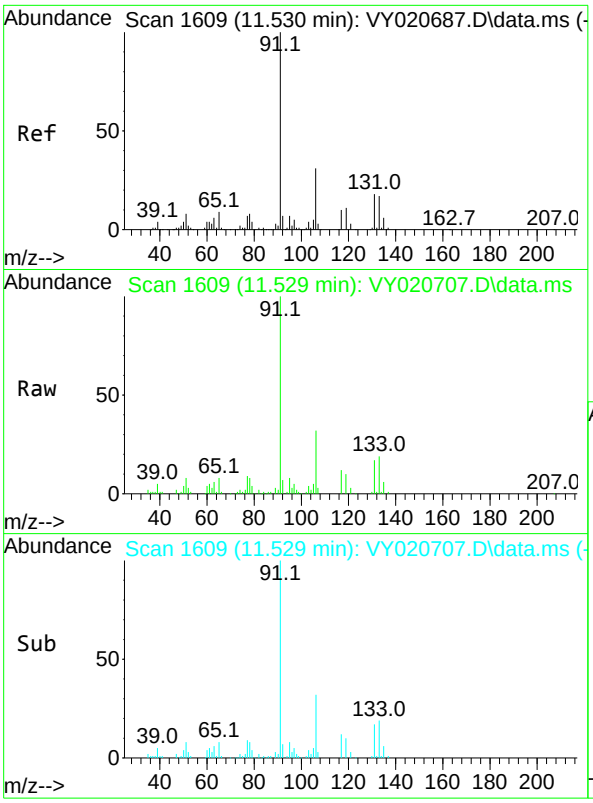




#66
1,1,1,2-Tetrachloroethane
Concen: 10.699 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:131 Resp: 10891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 98.8 | 48.6 | 145.9 |
| 119 | 56.6 | 28.4 | 85.3 |



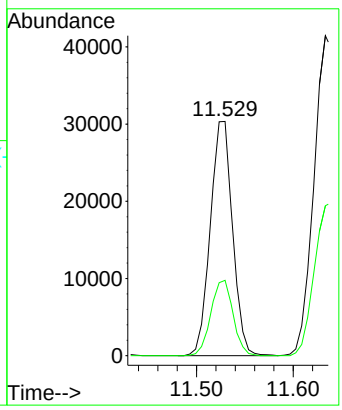


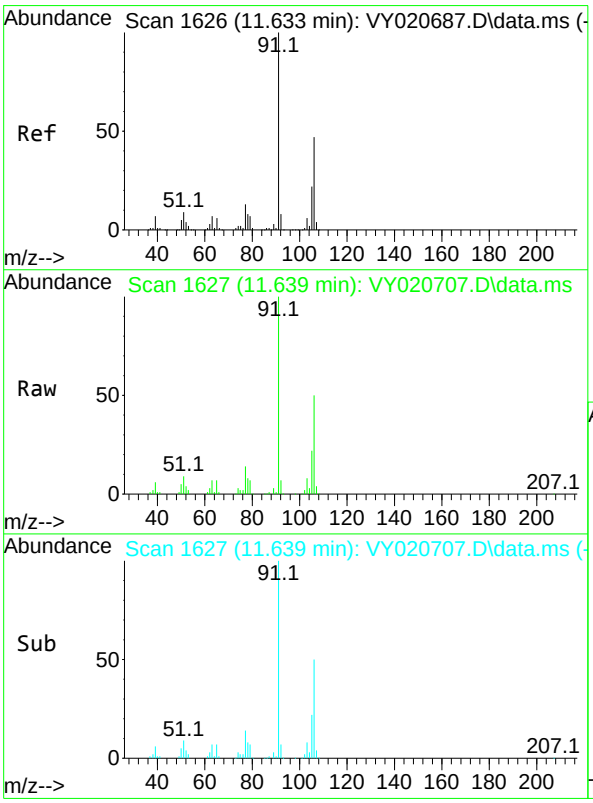

#67
Ethyl Benzene
Concen: 10.575 ug/l
RT: 11.529 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 48565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.2 | 24.5 | 36.7 |

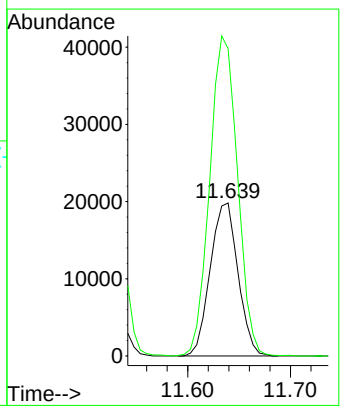


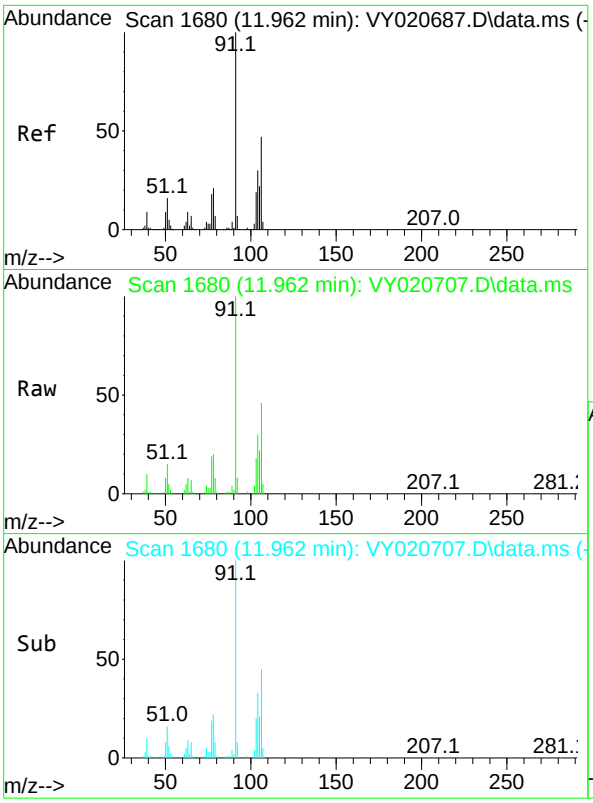




#68
m/p-Xylenes
Concen: 21.184 ug/l
RT: 11.639 min Scan# 1627
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:106 Resp: 37110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.0 | 166.6 | 250.0 |



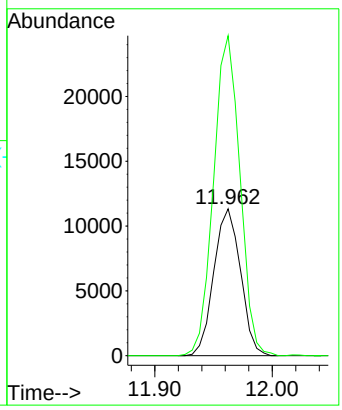


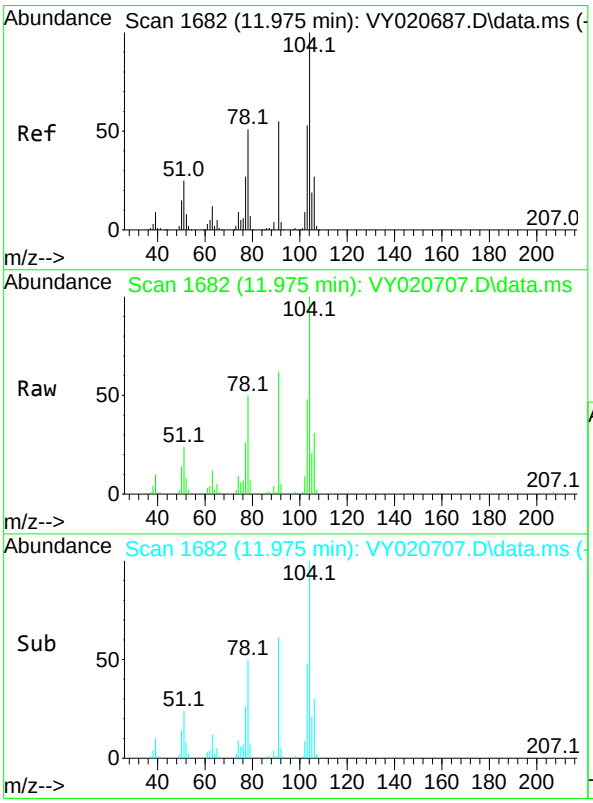

#69
o-Xylene
Concen: 10.682 ug/l
RT: 11.962 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:106 Resp: 17878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 215.5 | 108.6 | 325.8 |

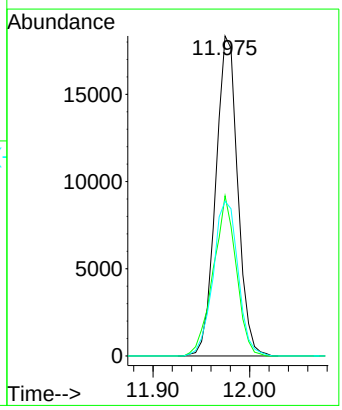


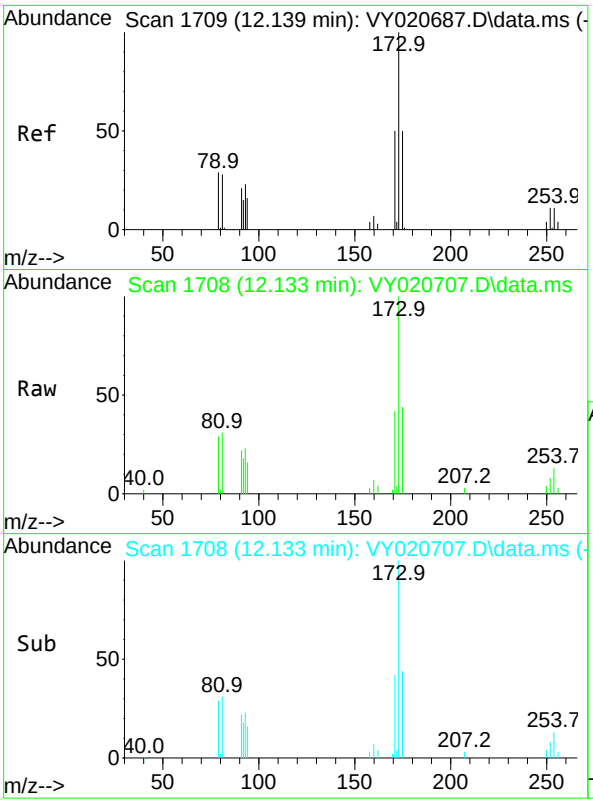




#70
Styrene
Concen: 10.280 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:104 Resp: 28883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.5 | 43.0 | 64.4 |
| 103 | 55.0 | 44.4 | 66.6 |



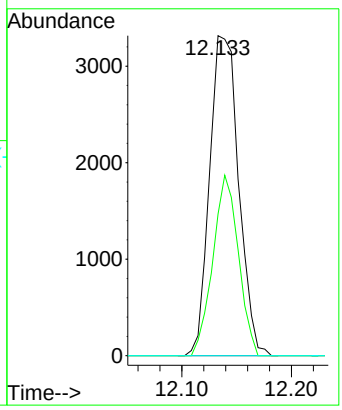


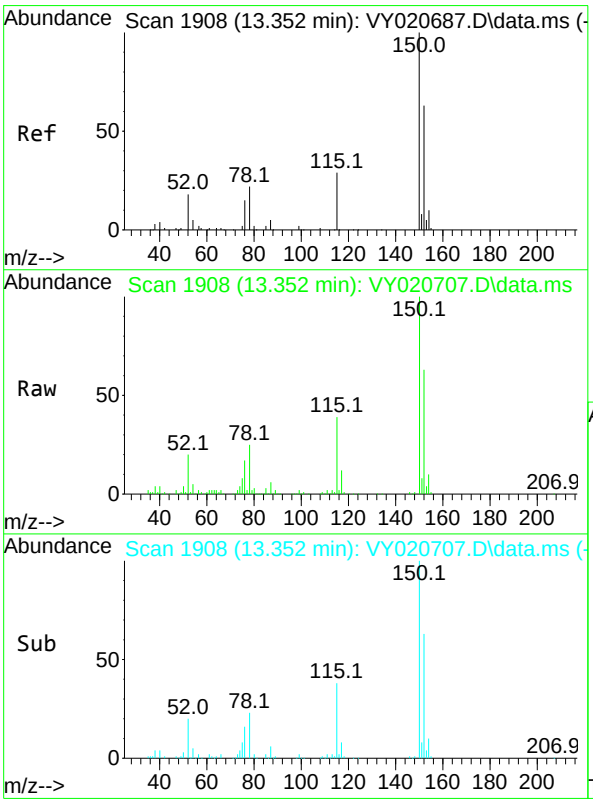

#71
Bromoform
Concen: 10.428 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:173 Resp: 6103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.6 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

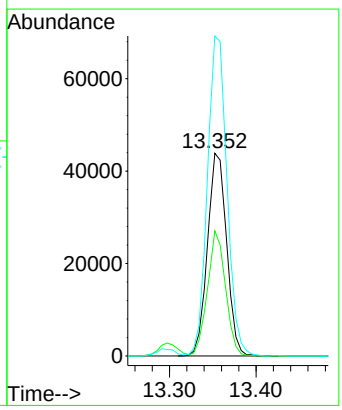


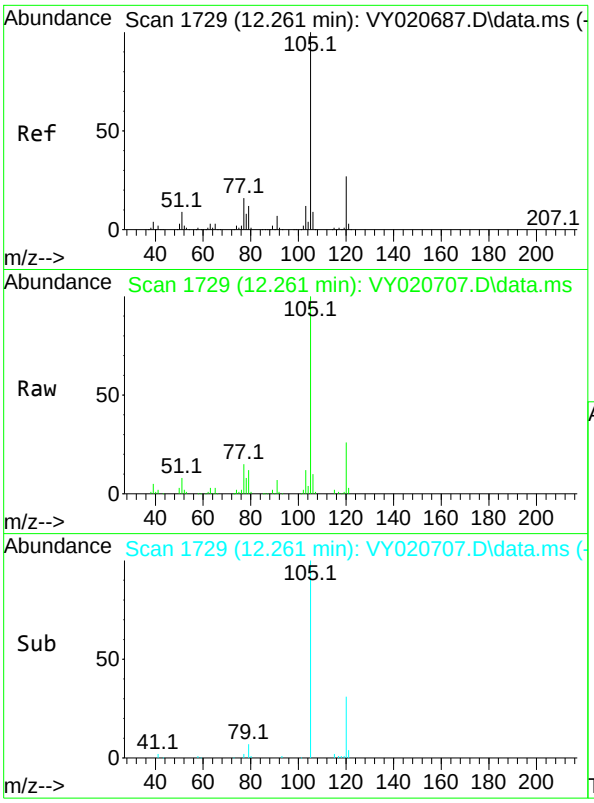




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:152 Resp: 67536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.0 | 30.3 | 90.9 |
| 150 | 161.1 | 0.0 | 349.0 |



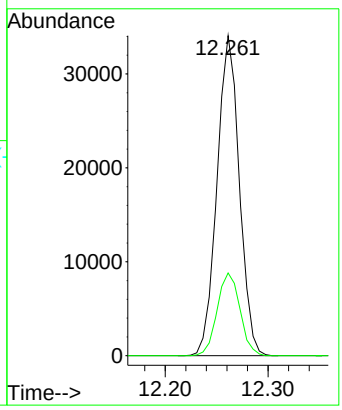


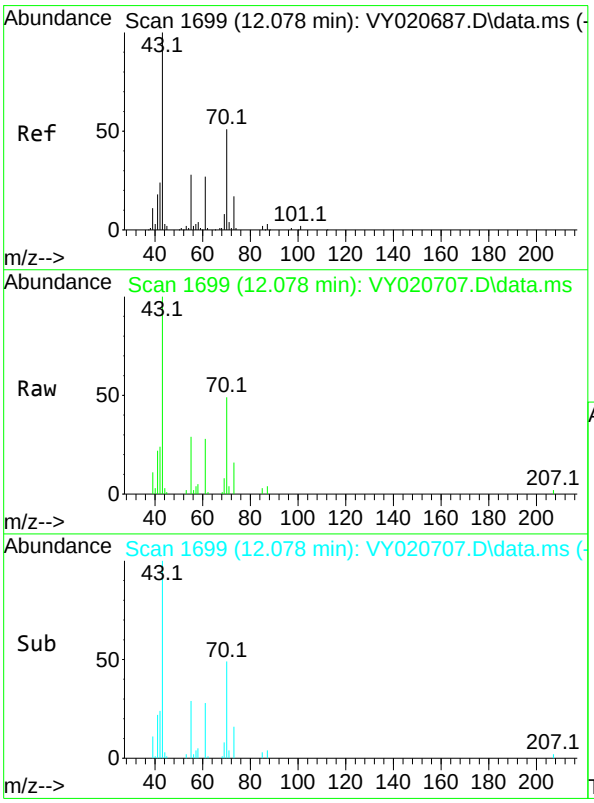

#73
Isopropylbenzene
Concen: 10.973 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:105 Resp: 51343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.3 | 39.9 |

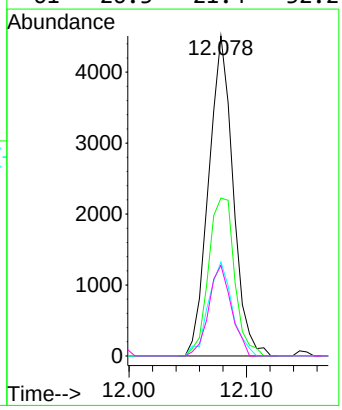


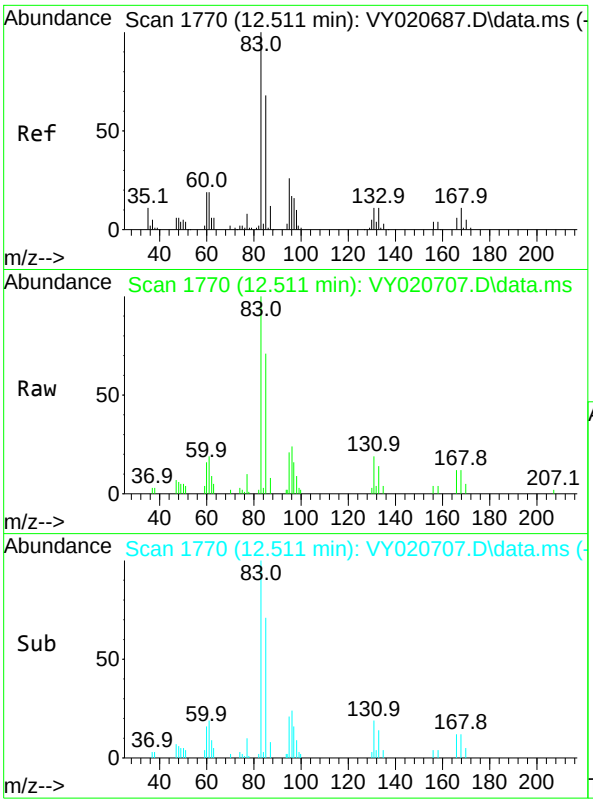




#74
N-amyl acetate
Concen: 9.813 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 43 Resp: 6525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 52.6 | 39.7 | 59.5 |
| 55 | 28.7 | 21.5 | 32.3 |
| 61 | 26.3 | 21.4 | 32.2 |



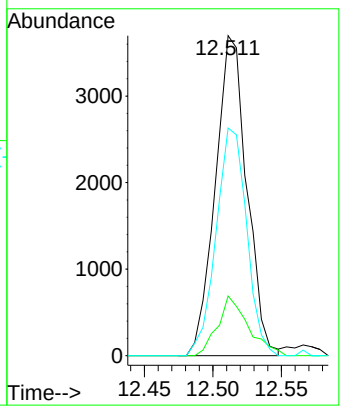


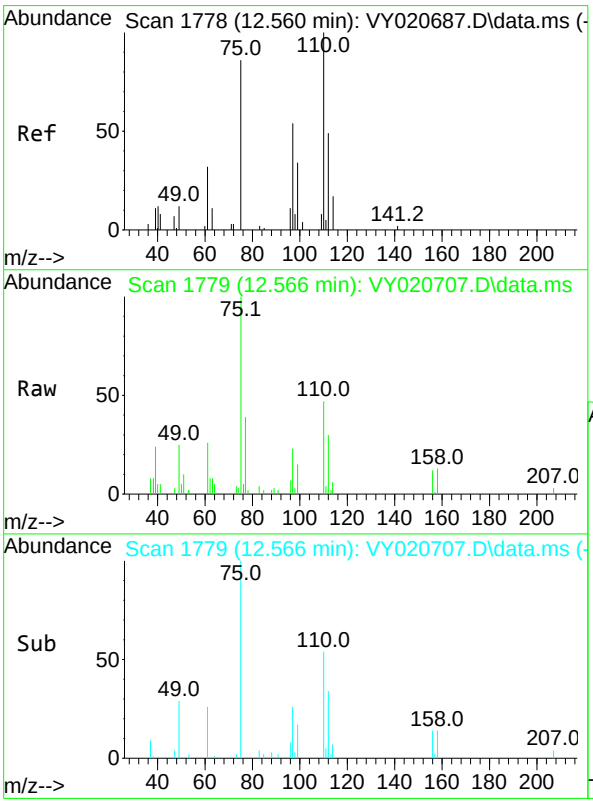

#75
1,1,2,2-Tetrachloroethane
Concen: 9.866 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 83 Resp: 5918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 18.1 | 6.9 | 20.7 |
| 85 | 69.1 | 32.5 | 97.4 |

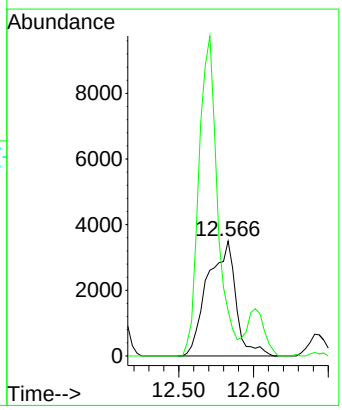


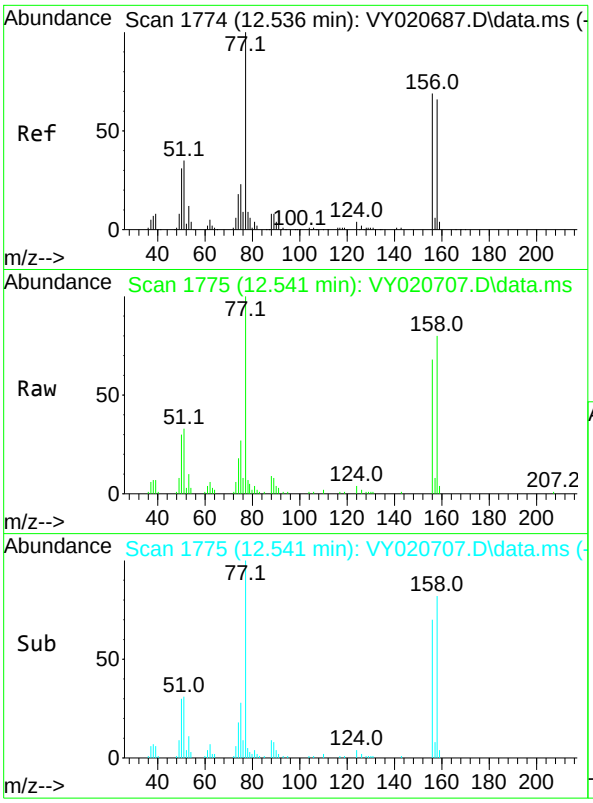




#76
1,2,3-Trichloropropane
Concen: 17.305 ug/l
RT: 12.566 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 75 Resp: 9219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



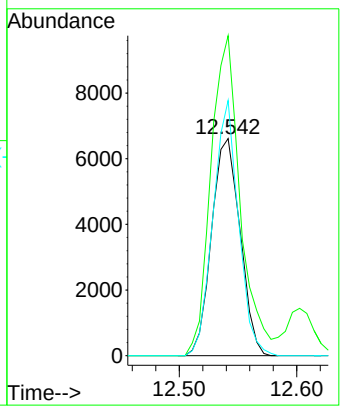


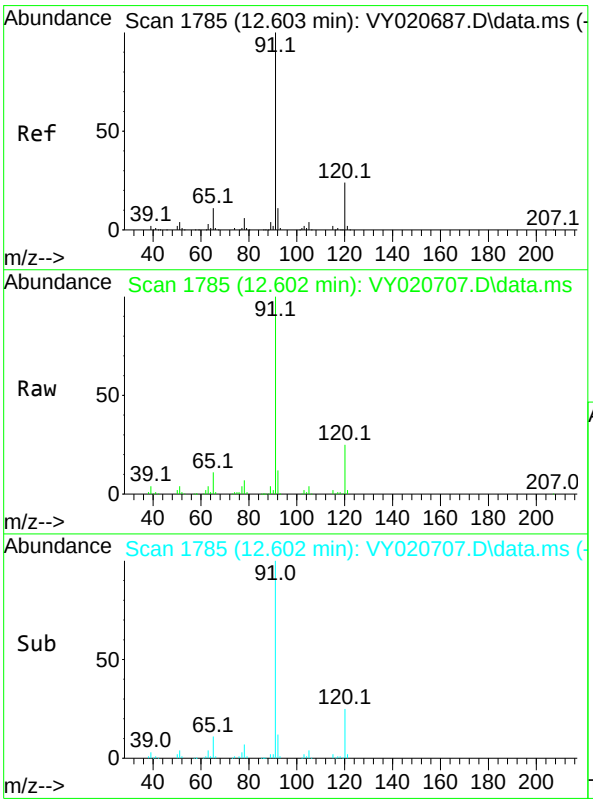

#77
Bromobenzene
Concen: 10.365 ug/l
RT: 12.541 min Scan# 1
Delta R.T. 0.005 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:156 Resp: 11164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 151.2 | 78.3 | 235.0 |
| 158 | 105.0 | 48.3 | 144.9 |

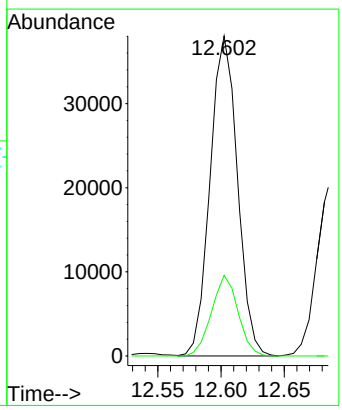


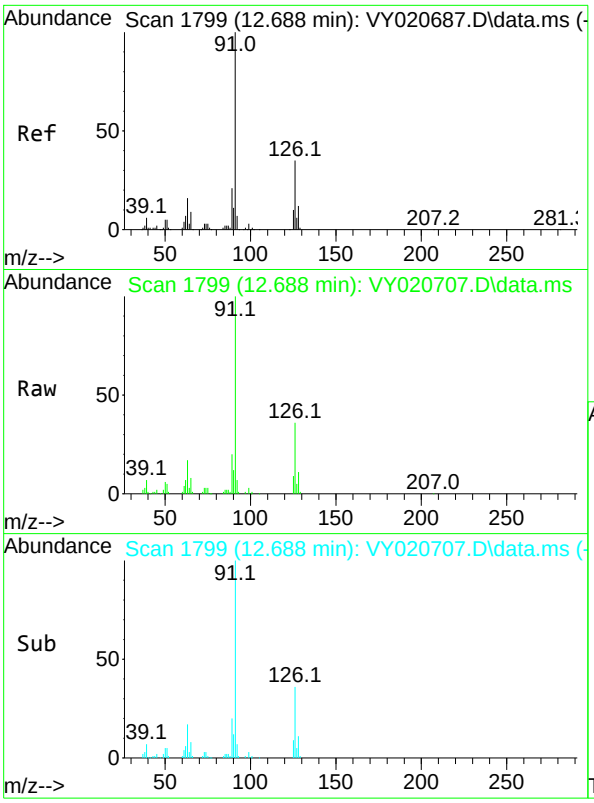




#78
n-propylbenzene
Concen: 10.898 ug/l
RT: 12.602 min Scan# 1785
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 91 Resp: 57154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.4 | 12.3 | 36.8 |



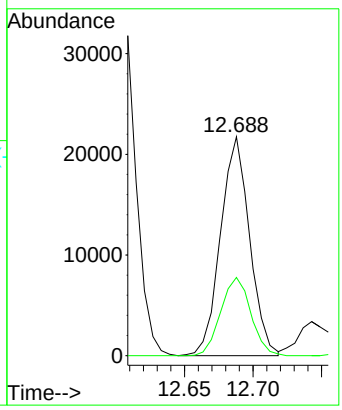


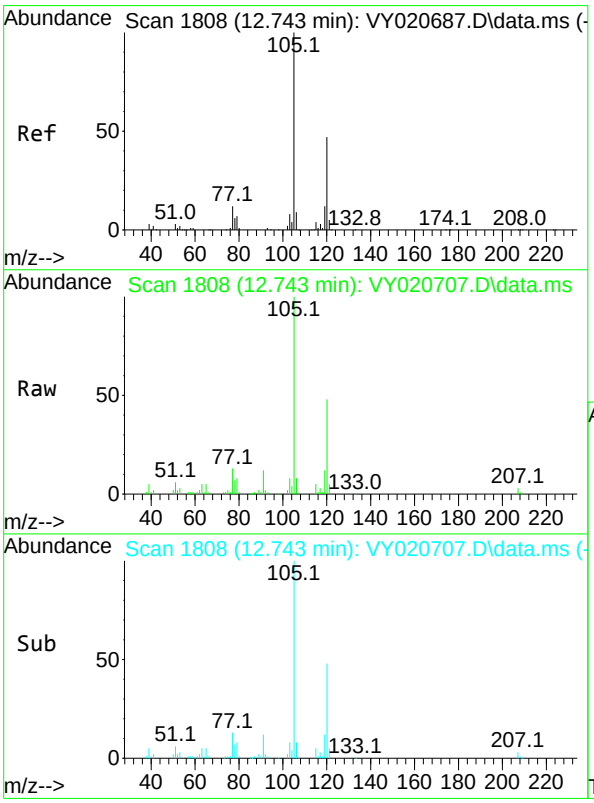

#79
2-Chlorotoluene
Concen: 10.745 ug/l
RT: 12.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 32123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.8 | 17.8 | 53.3 |

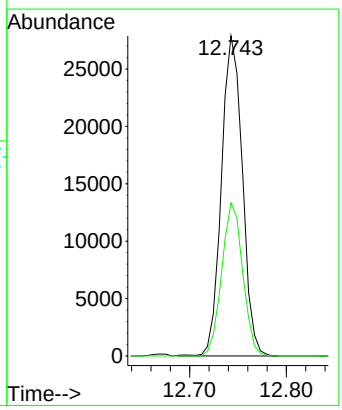


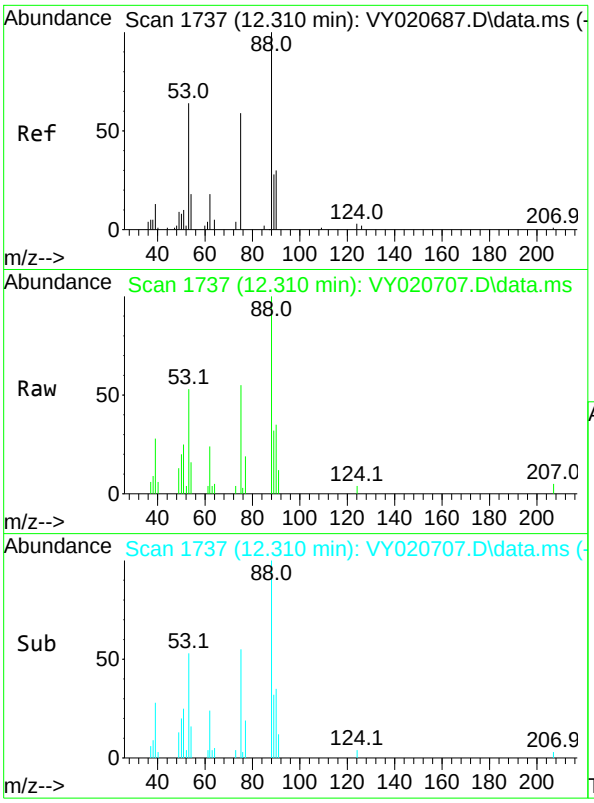




#80
1,3,5-Trimethylbenzene
Concen: 10.746 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:105 Resp: 41891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.9 | 71.7 |



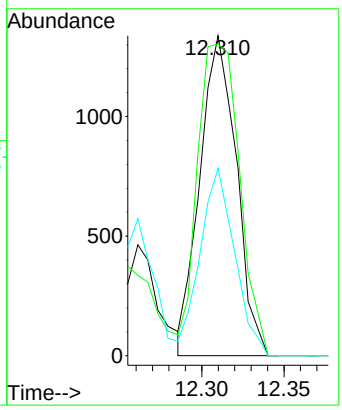


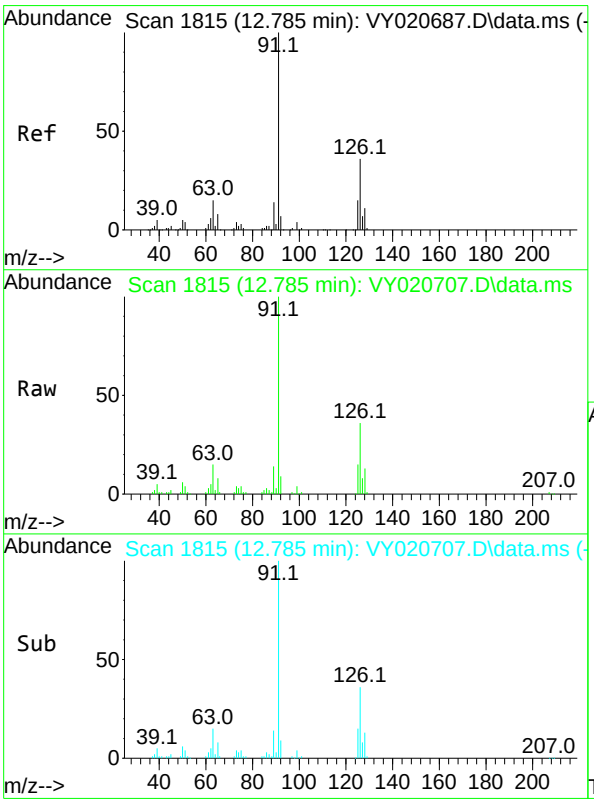

#81
trans-1,4-Dichloro-2-butene
Concen: 9.480 ug/l
RT: 12.310 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 75 Resp: 2060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 112.3 | 83.1 | 124.7 |
| 89 | 55.5 | 40.6 | 61.0 |

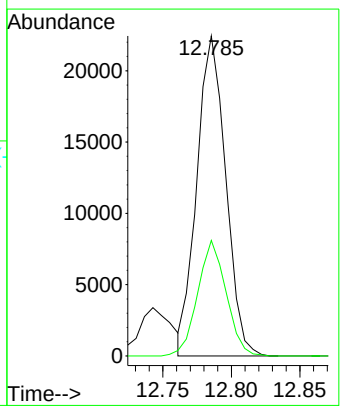


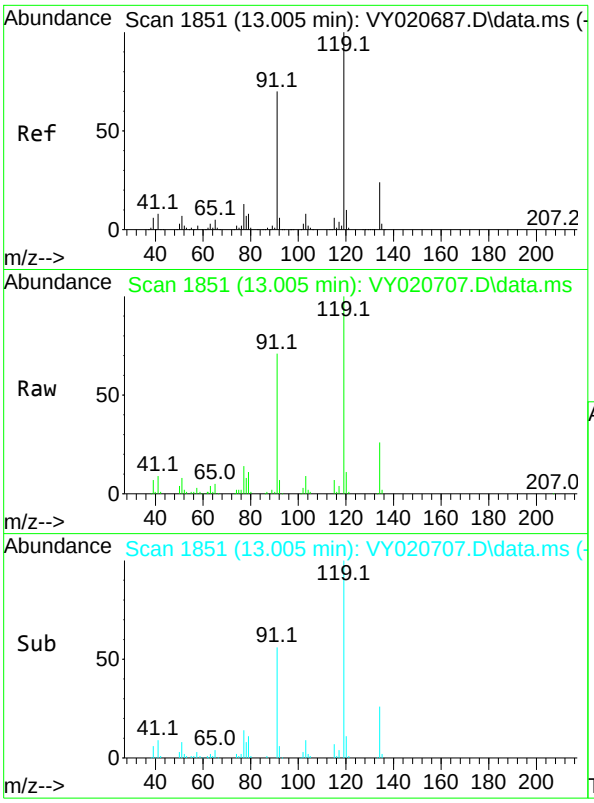




#82
4-Chlorotoluene
Concen: 10.654 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 91 Resp: 32918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.6 | 17.8 | 53.5 |



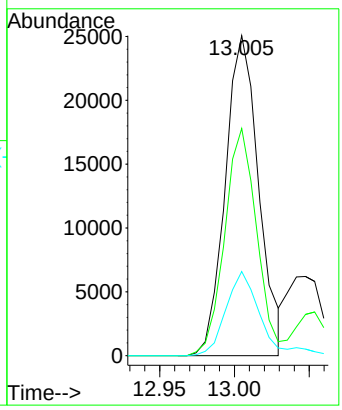


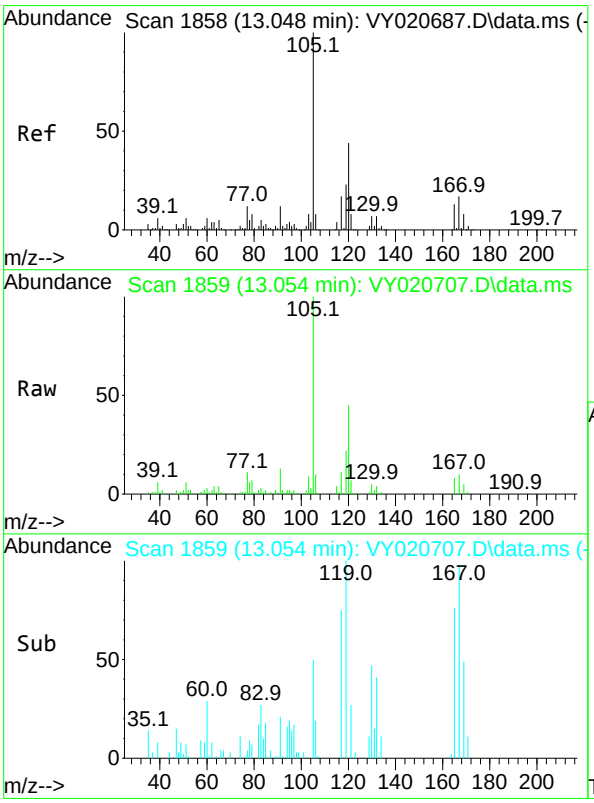

#83
tert-Butylbenzene
Concen: 10.714 ug/l
RT: 13.005 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:119 Resp: 39005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.5 | 33.6 | 100.8 |
| 134 | 27.2 | 13.4 | 40.2 |

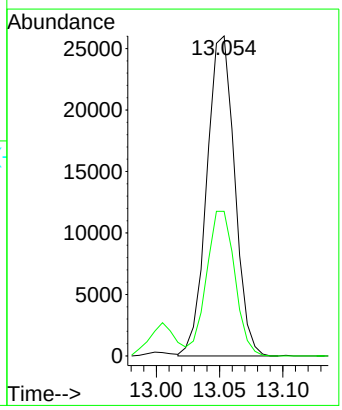


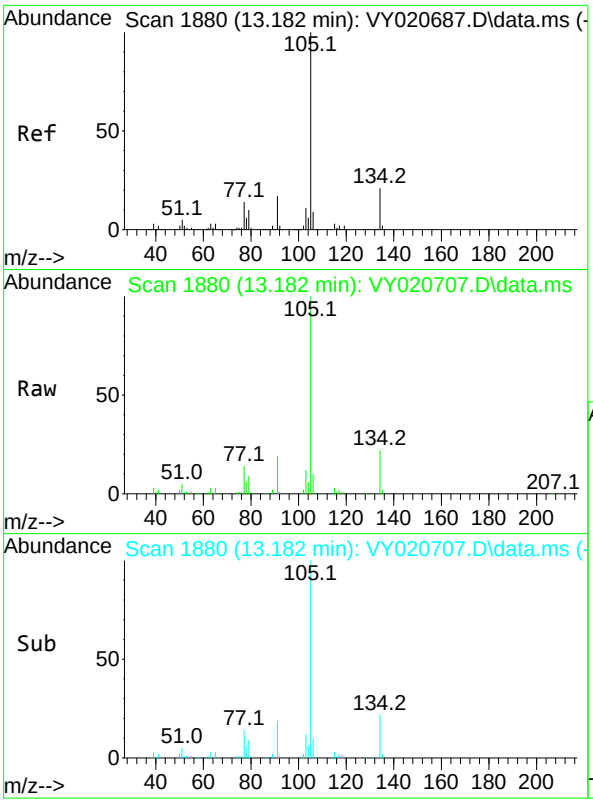




#84
1,2,4-Trimethylbenzene
Concen: 10.489 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:105 Resp: 39791

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.1 | 21.8 | 65.3 |



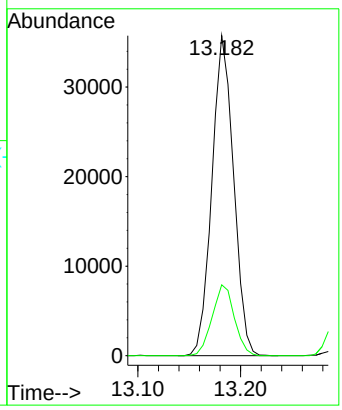


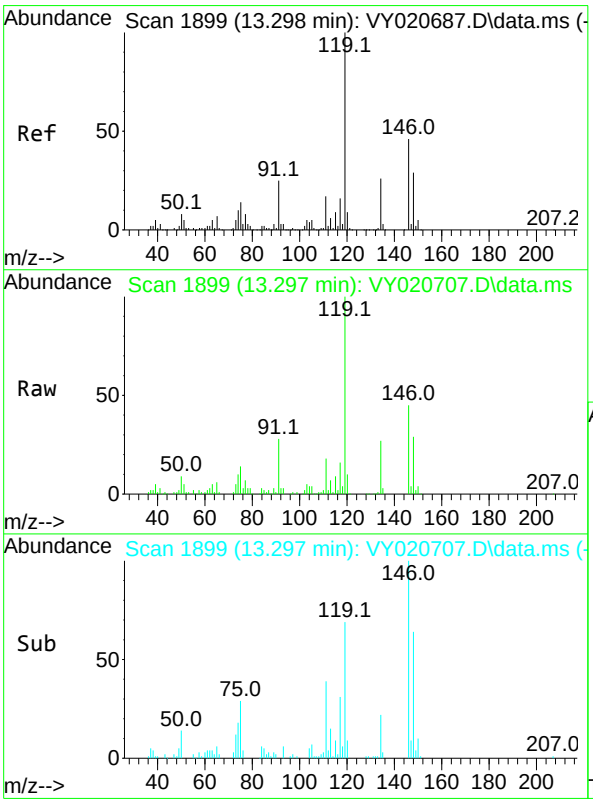

#85
sec-Butylbenzene
Concen: 10.682 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:105 Resp: 52410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 22.6 | 10.7 | 32.1 |

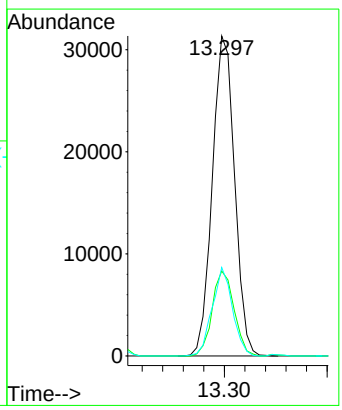


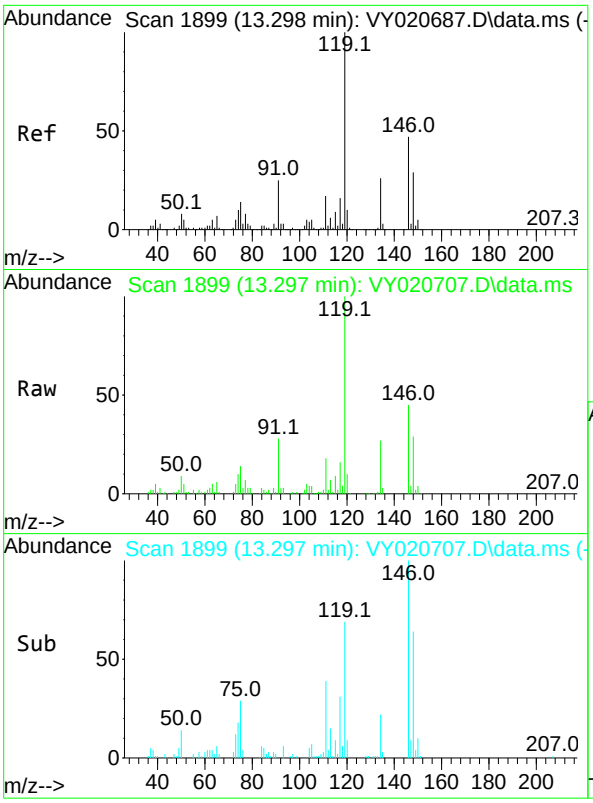




#86
p-Isopropyltoluene
Concen: 10.773 ug/l
RT: 13.297 min Scan# 1899
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:119 Resp: 47106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 13.4 | 40.2 |
| 91 | 25.2 | 12.9 | 38.6 |



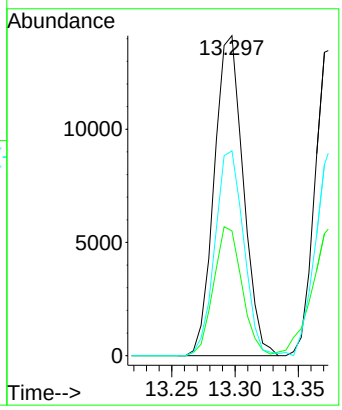


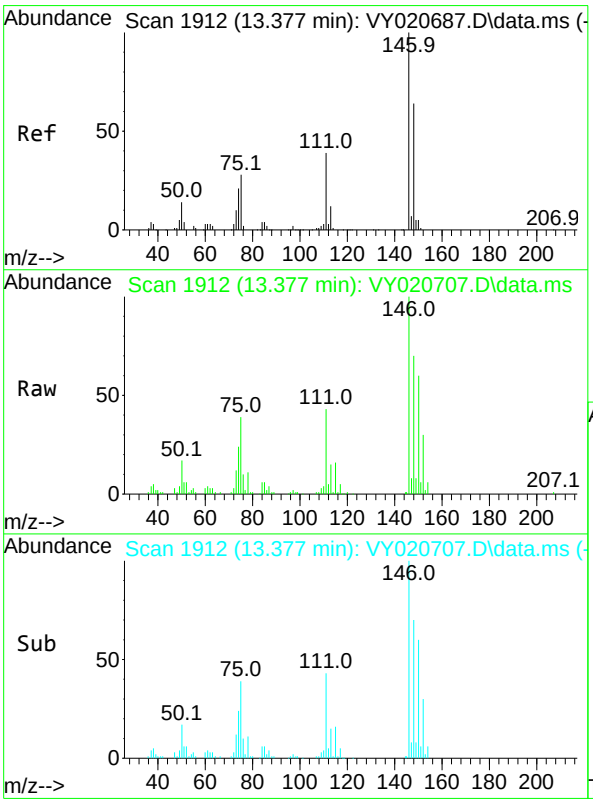

#87
1,3-Dichlorobenzene
Concen: 10.715 ug/l
RT: 13.297 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:146 Resp: 22556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.4 | 19.3 | 57.8 |
| 148 | 63.2 | 31.1 | 93.5 |

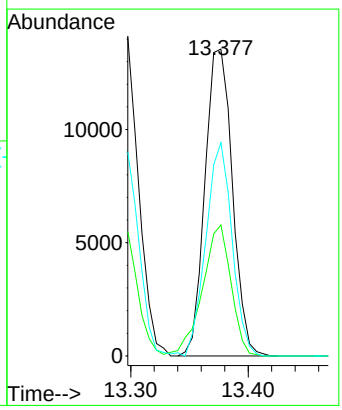


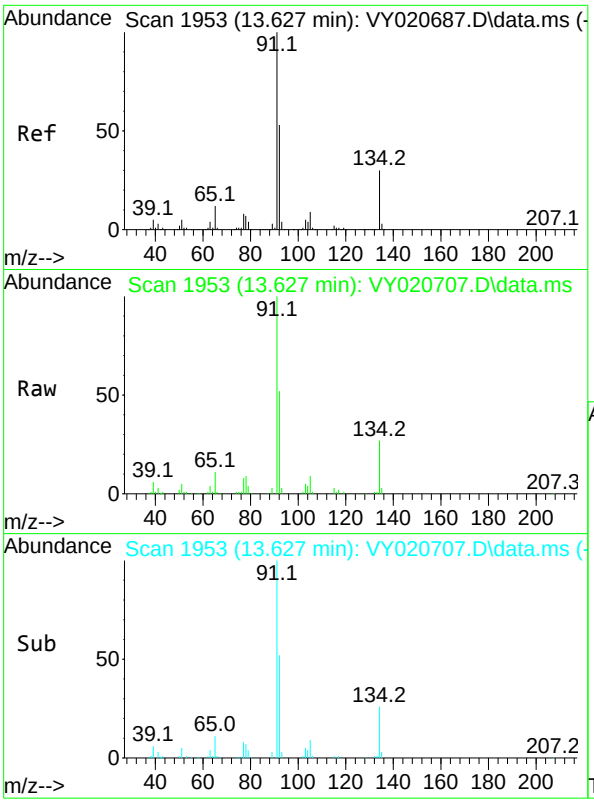




#88
1,4-Dichlorobenzene
Concen: 10.480 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:146 Resp: 21947

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.6 | 19.7 | 59.0 |
| 148 | 66.7 | 32.8 | 98.3 |



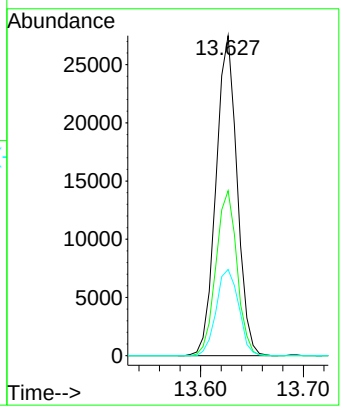


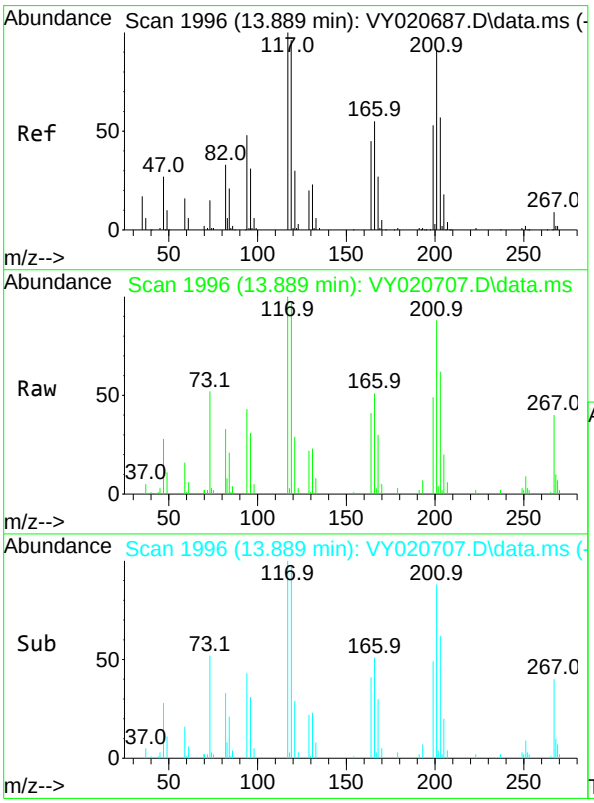

#89
n-Butylbenzene
Concen: 10.710 ug/l
RT: 13.627 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion: 91 Resp: 39091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.4 | 26.1 | 78.2 |
| 134 | 28.6 | 14.8 | 44.4 |

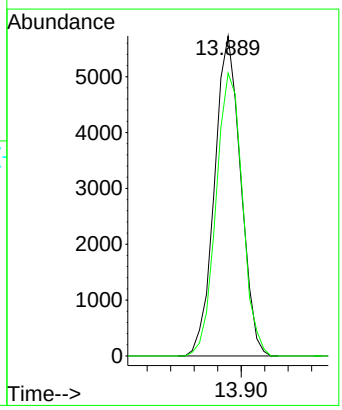


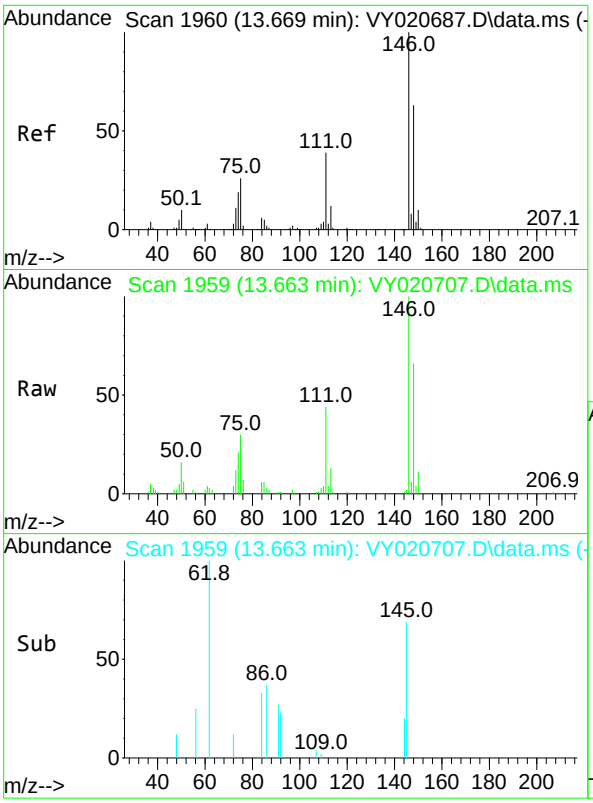




#90
Hexachloroethane
Concen: 10.680 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:117 Resp: 8880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 89.0 | 44.9 | 134.7 |



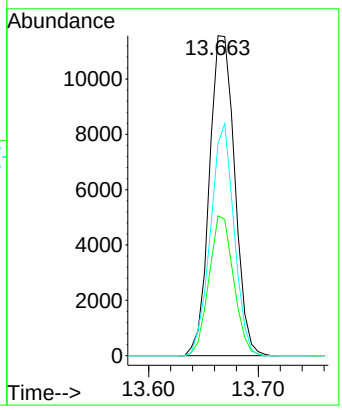


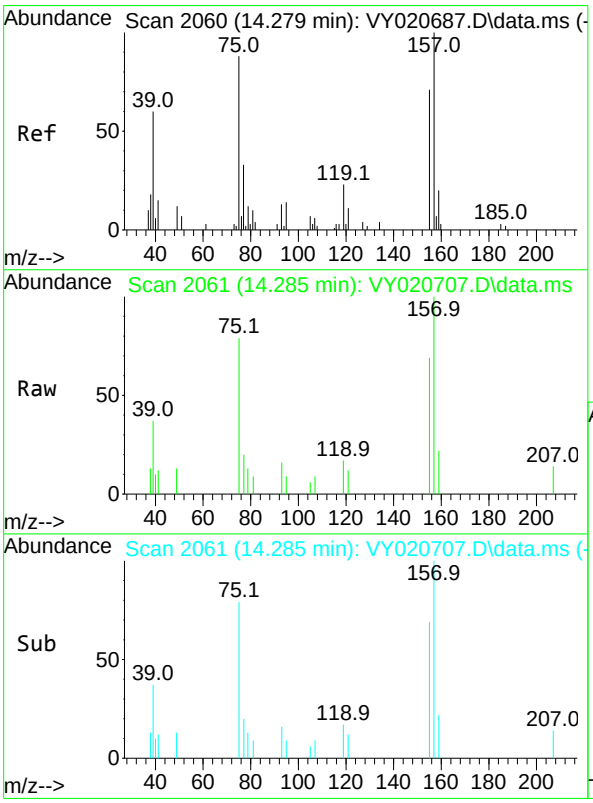

#91
1,2-Dichlorobenzene
Concen: 10.279 ug/l
RT: 13.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:146 Resp: 18554

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.6 | 20.3 | 60.8 |
| 148 | 67.5 | 31.9 | 95.5 |

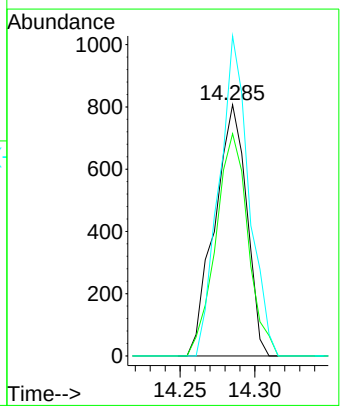


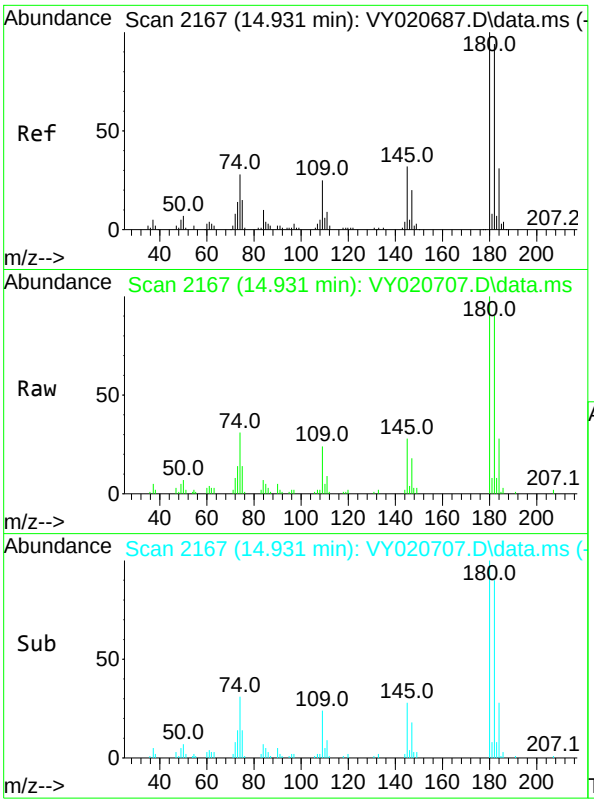




#92
1,2-Dibromo-3-Chloropropane
Concen: 10.298 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion: 75 Resp: 1198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 89.3 | 43.4 | 130.2 |
| 157 | 118.9 | 58.6 | 175.7 |



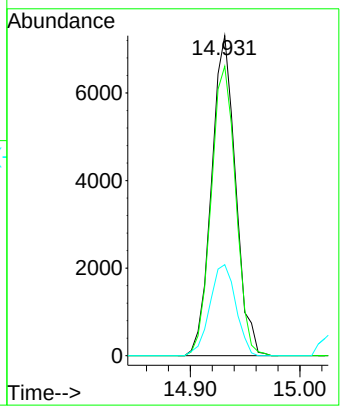


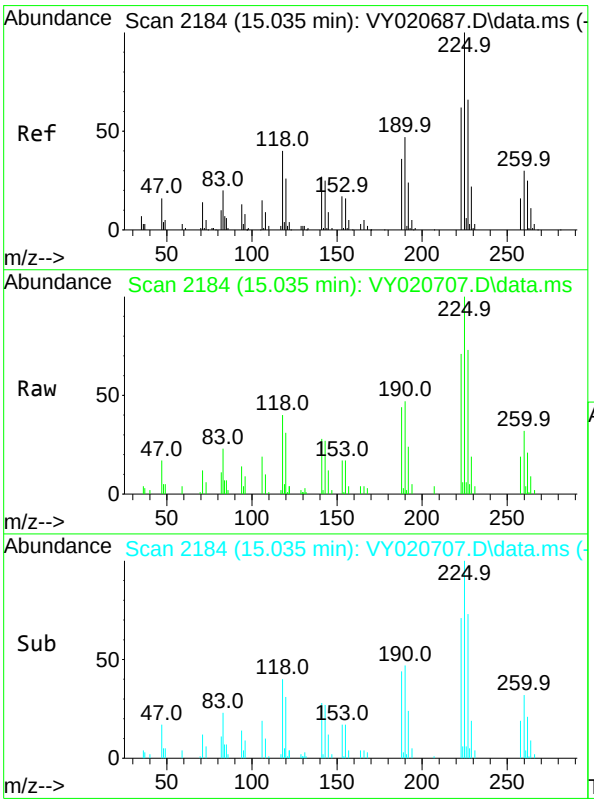

#93
1,2,4-Trichlorobenzene
Concen: 9.721 ug/l
RT: 14.931 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:180 Resp: 11153

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.1 | 47.9 | 143.7 |
| 145 | 30.7 | 15.6 | 46.8 |

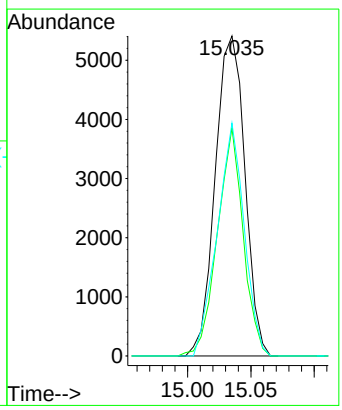


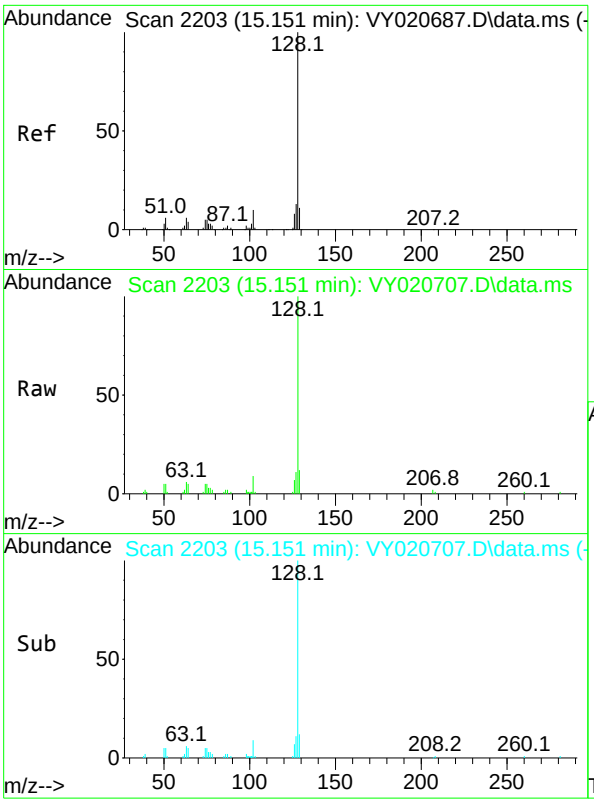




#94
Hexachlorobutadiene
Concen: 10.534 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:225 Resp: 8808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.3 | 93.8 |
| 227 | 66.4 | 32.1 | 96.5 |



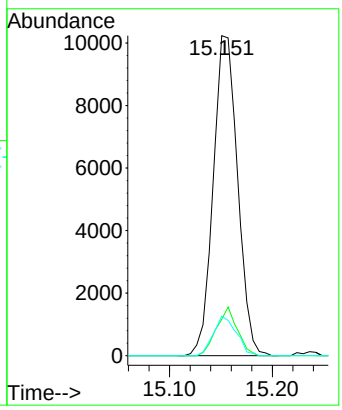


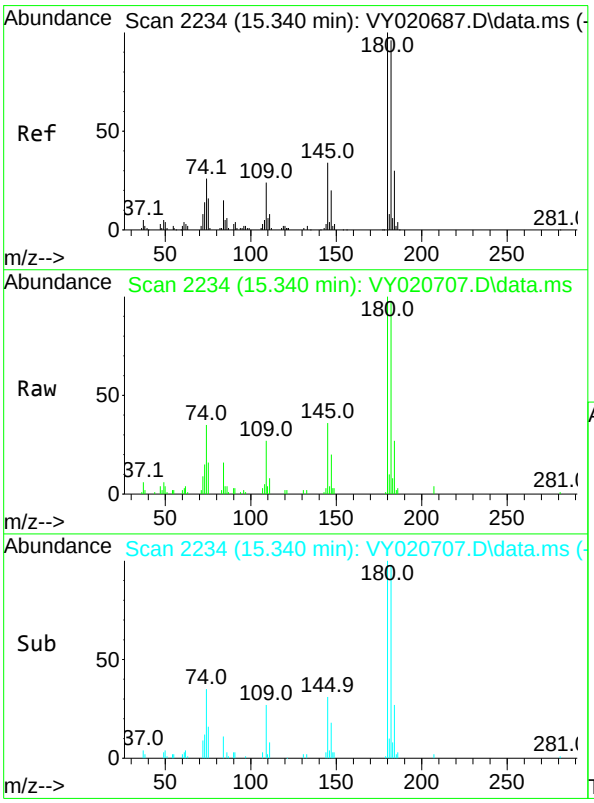

#95
Naphthalene
Concen: 9.174 ug/l
RT: 15.151 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC010

Tgt Ion:128 Resp: 16857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.7 | 16.1 |
| 129 | 11.6 | 8.6 | 12.8 |

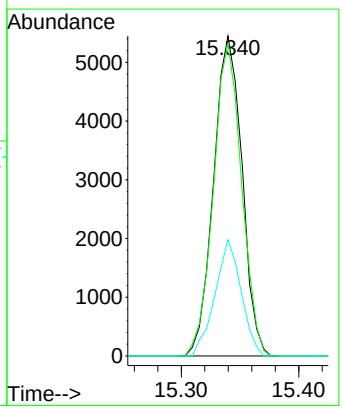



#96
1,2,3-Trichlorobenzene
Concen: 9.584 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. -0.000 min
Lab File: VY020707.D
Acq: 26 Dec 2024 09:53

Tgt Ion:180 Resp: 9155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.0 | 47.4 | 142.2 |
| 145 | 33.4 | 16.7 | 50.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020708.D
Acq On : 26 Dec 2024 10:16
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Dec 26 16:05:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 124056 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 173311 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 146011 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 74311 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 15547 | 15.300 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = | 30.600%# | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 16110 | 16.876 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = | 33.760%# | | |
| 50) Toluene-d8 | 10.115 | 98 | 50794 | 14.644 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = | 29.280%# | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 22093 | 17.414 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = | 34.820% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 18601 | 19.049 | ug/l | 92 |
| 3) Chloromethane | 2.074 | 50 | 6487 | 17.813 | ug/l | 96 |
| 4) Vinyl Chloride | 2.214 | 62 | 8742 | 19.375 | ug/l | 98 |
| 5) Bromomethane | 2.611 | 94 | 6370 | 18.699 | ug/l | 96 |
| 6) Chloroethane | 2.745 | 64 | 5058 | 18.687 | ug/l | 96 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 34026 | 19.610 | ug/l | 99 |
| 8) Diethyl Ether | 3.470 | 74 | 7737 | 18.739 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 18742 | 19.675 | ug/l | 97 |
| 10) Methyl Iodide | 4.019 | 142 | 19652 | 18.866 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.897 | 59 | 6567 | 90.235 | ug/l # | 88 |
| 12) 1,1-Dichloroethene | 3.806 | 96 | 16374 | 19.312 | ug/l | 93 |
| 13) Acrolein | 3.665 | 56 | 2867 | 134.971 | ug/l | 94 |
| 14) Allyl chloride | 4.403 | 41 | 19316 | 19.468 | ug/l | 96 |
| 15) Acrylonitrile | 5.074 | 53 | 14919 | 93.535 | ug/l | 99 |
| 16) Acetone | 3.885 | 43 | 11272 | 87.443 | ug/l | 99 |
| 17) Carbon Disulfide | 4.123 | 76 | 38140 | 18.338 | ug/l | 96 |
| 18) Methyl Acetate | 4.403 | 43 | 6527 | 18.708 | ug/l | 93 |
| 19) Methyl tert-butyl Ether | 5.135 | 73 | 45739 | 19.355 | ug/l | 97 |
| 20) Methylene Chloride | 4.629 | 84 | 16287 | 19.426 | ug/l | 87 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 17672 | 19.342 | ug/l | 96 |
| 22) Diisopropyl ether | 6.031 | 45 | 39891 | 19.778 | ug/l | 97 |
| 23) Vinyl Acetate | 5.976 | 43 | 116269 | 96.512 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.939 | 63 | 29556 | 19.545 | ug/l | 98 |
| 25) 2-Butanone | 6.903 | 43 | 16336 | 93.814 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 6.903 | 77 | 35847 | 19.368 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.909 | 96 | 21139 | 19.320 | ug/l | 98 |
| 28) Bromochloromethane | 7.256 | 49 | 6388 | 15.974 | ug/l | 93 |
| 29) Tetrahydrofuran | 7.274 | 42 | 9908 | 92.698 | ug/l | 94 |
| 30) Chloroform | 7.433 | 83 | 37350 | 19.200 | ug/l | 97 |
| 31) Cyclohexane | 7.720 | 56 | 24456 | 18.736 | ug/l # | 95 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 40987 | 19.656 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 24262 | 19.240 | ug/l | 98 |
| 37) Ethyl Acetate | 6.994 | 43 | 8299 | 19.972 | ug/l | 96 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 40302 | 19.409 | ug/l | 96 |
| 39) Methylcyclohexane | 9.116 | 83 | 32007 | 19.803 | ug/l | 94 |
| 40) Benzene | 8.091 | 78 | 72108 | 19.731 | ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020708.D
Acq On : 26 Dec 2024 10:16
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Dec 26 16:05:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 4661 | 22.206 | ug/l | | 97 |
| 42) 1,2-Dichloroethane | 8.171 | 62 | 22531 | 19.227 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 16635 | 18.834 | ug/l | | 98 |
| 44) Trichloroethene | 8.878 | 130 | 21859 | 20.026 | ug/l | | 88 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 14245 | 19.256 | ug/l | | 92 |
| 46) Dibromomethane | 9.238 | 93 | 9719 | 18.988 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.433 | 83 | 28737 | 19.803 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.225 | 41 | 7787 | 18.879 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.238 | 88 | 1825 | 374.309 | ug/l | | 94 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 40592 | 95.218 | ug/l | | 99 |
| 52) Toluene | 10.176 | 92 | 50060 | 19.986 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 24428 | 19.166 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 27417 | 19.625 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 12886 | 19.722 | ug/l | | 94 |
| 56) Ethyl methacrylate | 10.445 | 69 | 16830 | 19.607 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 20740 | 19.558 | ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 27533 | 91.985 | ug/l | | 99 |
| 59) 2-Hexanone | 10.768 | 43 | 27109 | 96.312 | ug/l | | 100 |
| 60) Dibromochloromethane | 10.920 | 129 | 20354 | 19.279 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 12098 | 19.678 | ug/l | | 97 |
| 64) Tetrachloroethene | 10.658 | 164 | 20307 | 20.357 | ug/l | | 97 |
| 65) Chlorobenzene | 11.451 | 112 | 56993 | 19.935 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 21420 | 19.338 | ug/l | | 96 |
| 67) Ethyl Benzene | 11.524 | 91 | 100148 | 20.042 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 75856 | 39.796 | ug/l | | 99 |
| 69) o-Xylene | 11.963 | 106 | 37301 | 20.482 | ug/l | | 96 |
| 70) Styrene | 11.975 | 104 | 61946 | 20.262 | ug/l | | 98 |
| 71) Bromoform | 12.139 | 173 | 12354 | 19.400 | ug/l | # | 96 |
| 73) Isopropylbenzene | 12.261 | 105 | 104274 | 20.254 | ug/l | | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 14154 | 19.346 | ug/l | | 95 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 13030 | 19.742 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 19407 | 33.108 | ug/l | # | 100 |
| 77) Bromobenzene | 12.536 | 156 | 23151 | 19.534 | ug/l | | 98 |
| 78) n-propylbenzene | 12.603 | 91 | 118053 | 20.458 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 66234 | 20.135 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 86460 | 20.157 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 4620 | 19.322 | ug/l | | 91 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 68187 | 20.057 | ug/l | | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 81757 | 20.410 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 85025 | 20.370 | ug/l | | 97 |
| 85) sec-Butylbenzene | 13.182 | 105 | 110869 | 20.536 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 97722 | 20.311 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 46587 | 20.113 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 46439 | 20.154 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 82147 | 20.454 | ug/l | | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 17856 | 19.517 | ug/l | | 98 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 40471 | 20.378 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 2548 | 19.905 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 24098 | 19.089 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 18082 | 19.654 | ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 38351 | 18.968 | ug/l | | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 20167 | 19.187 | ug/l | | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020708.D
Acq On : 26 Dec 2024 10:16
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Dec 26 16:05:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

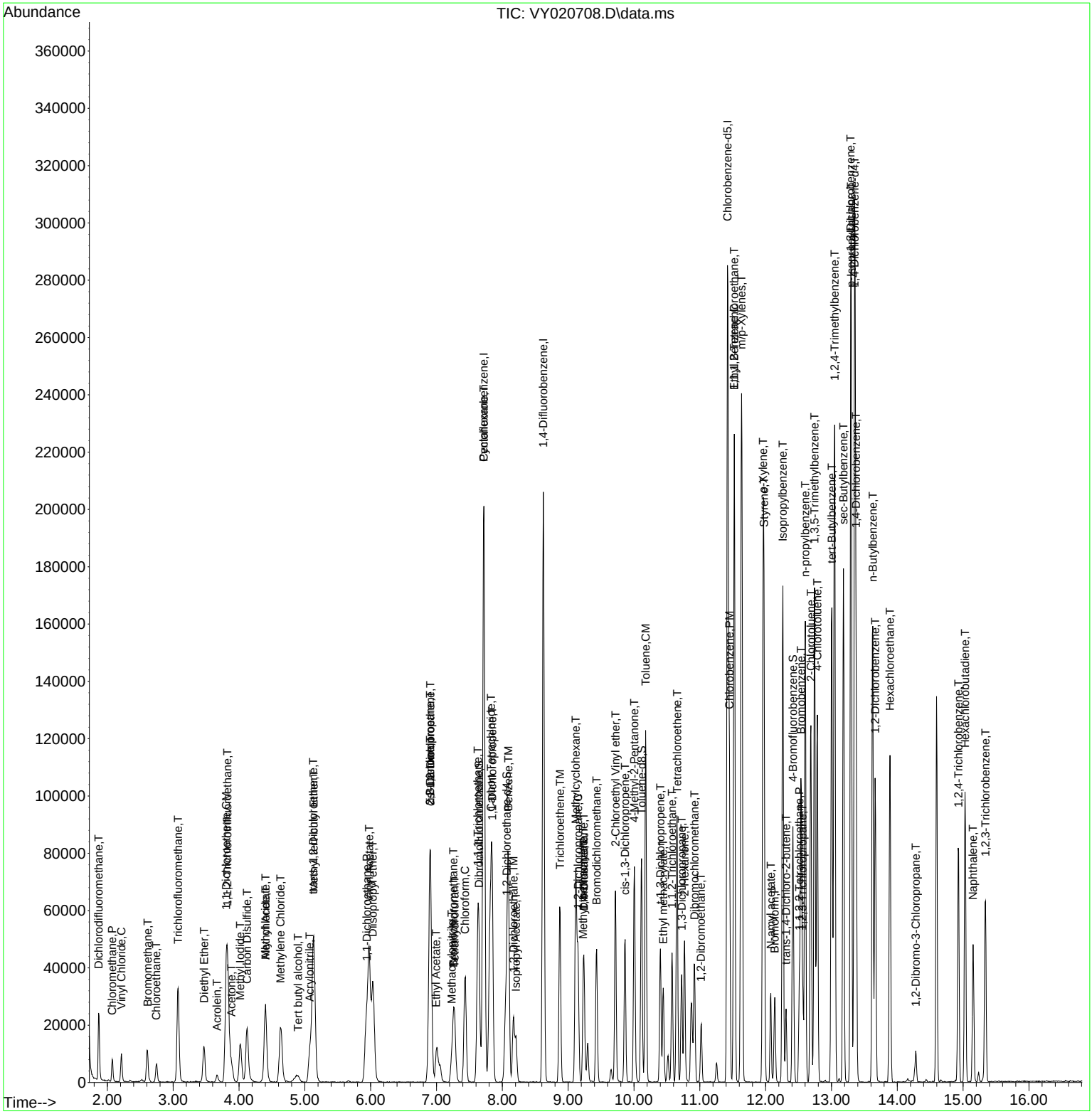
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

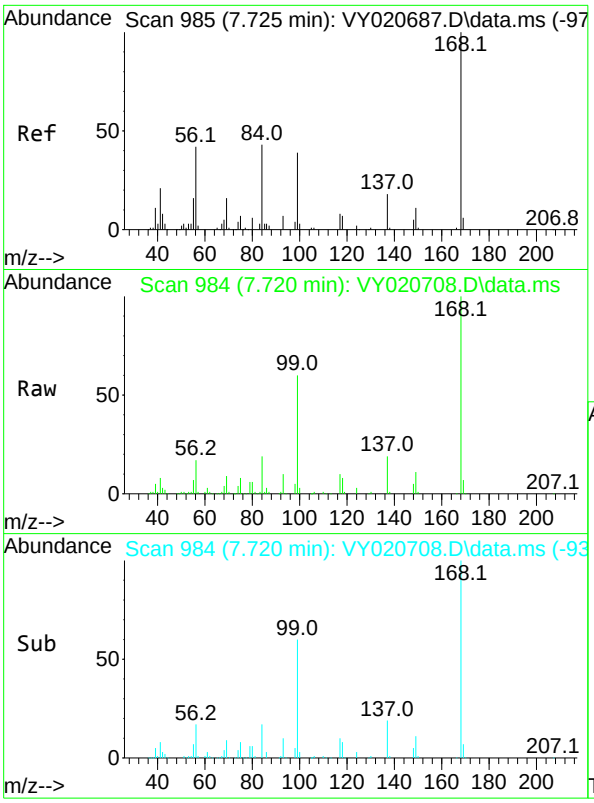
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020708.D
Acq On : 26 Dec 2024 10:16
Operator : SY/MD
Sample : VSTDICC020
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Quant Time: Dec 26 16:05:50 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration



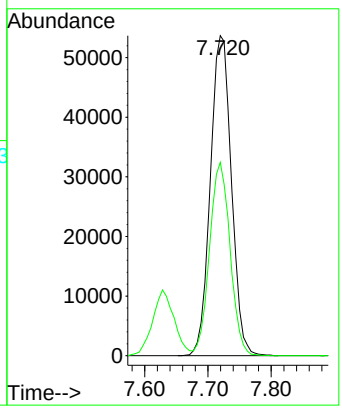


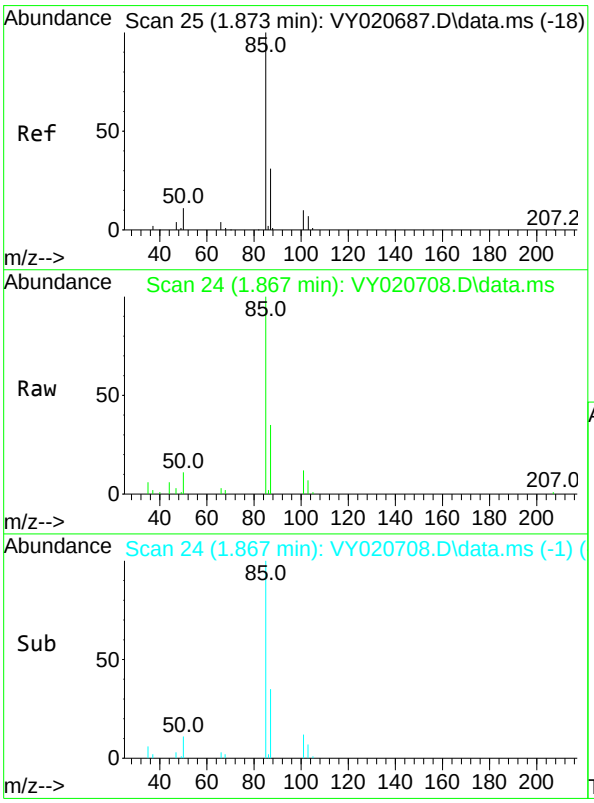

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 9
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:168 Resp: 124056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.4 | 43.8 | 65.6 |

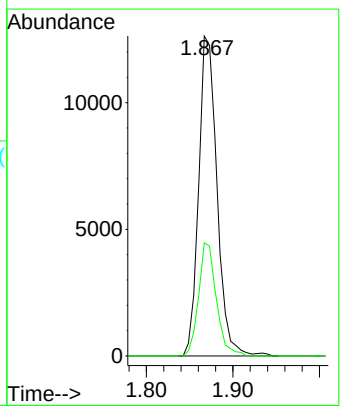


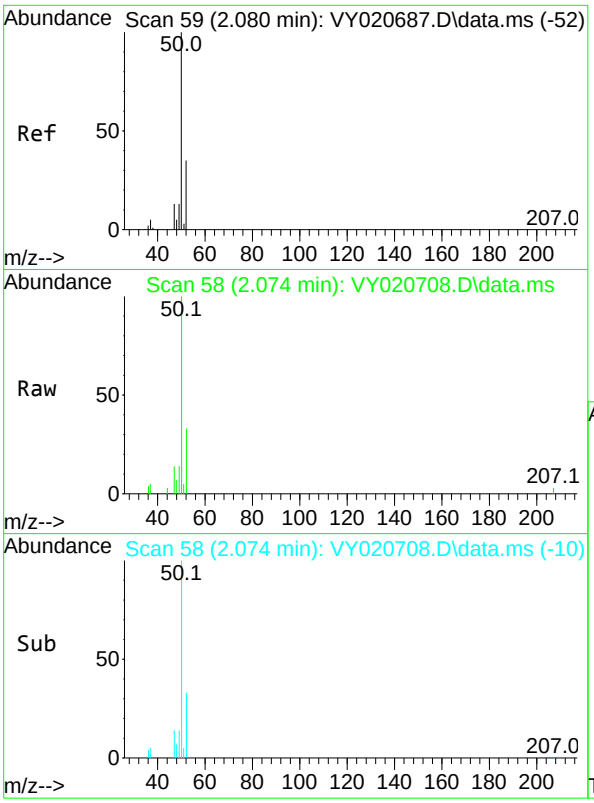




#2
Dichlorodifluoromethane
Concen: 19.049 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 85 Resp: 18601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 35.4 | 15.4 | 46.4 |



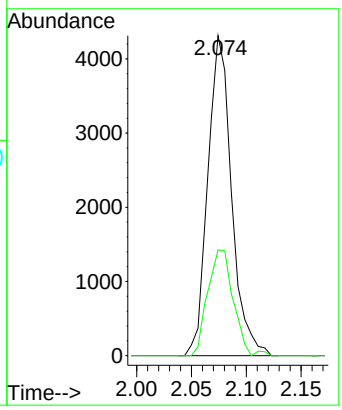


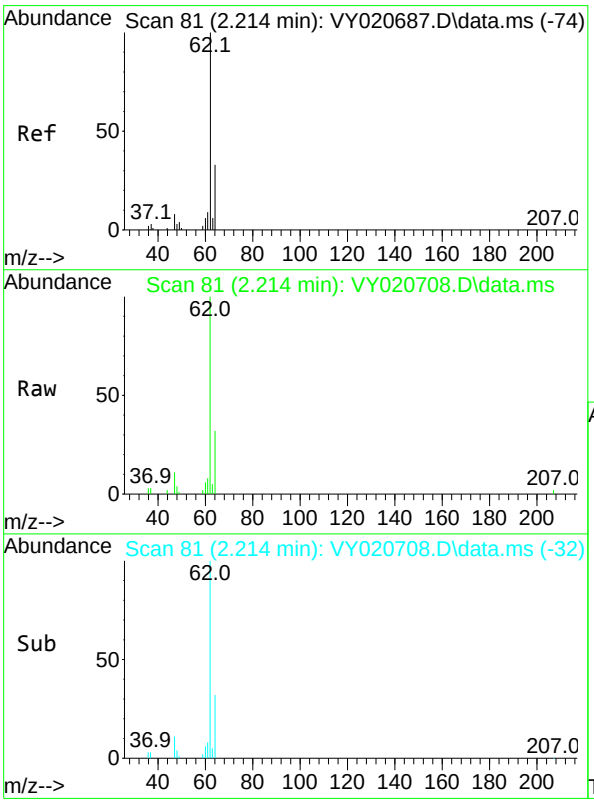

#3
Chloromethane
Concen: 17.813 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 50 Resp: 6487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 28.2 | 42.2 |

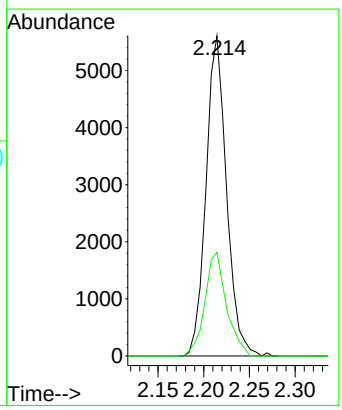


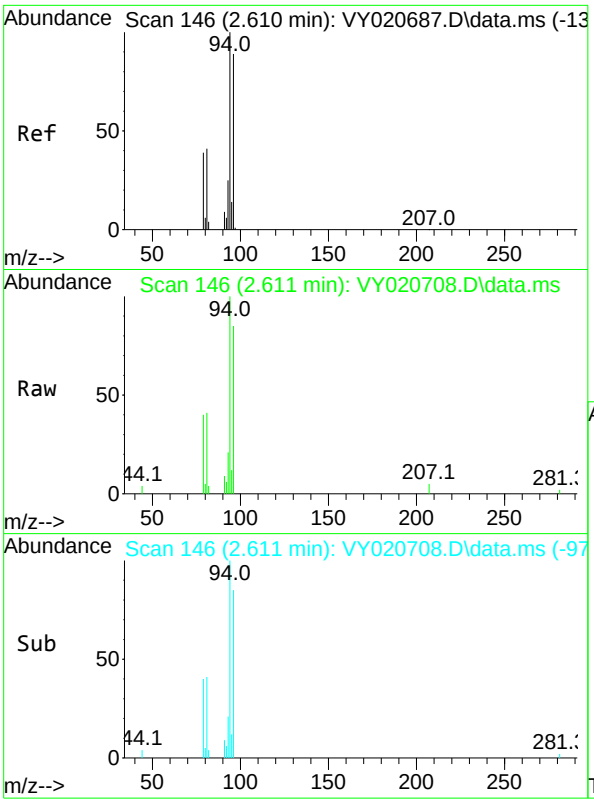




#4
Vinyl Chloride
Concen: 19.375 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 62 Resp: 8742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.4 | 26.6 | 40.0 |



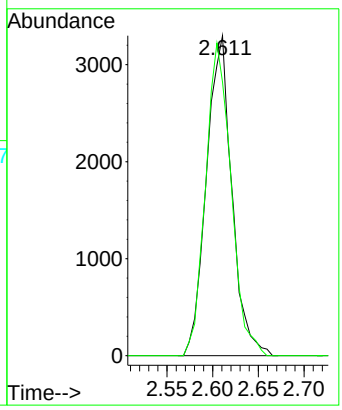


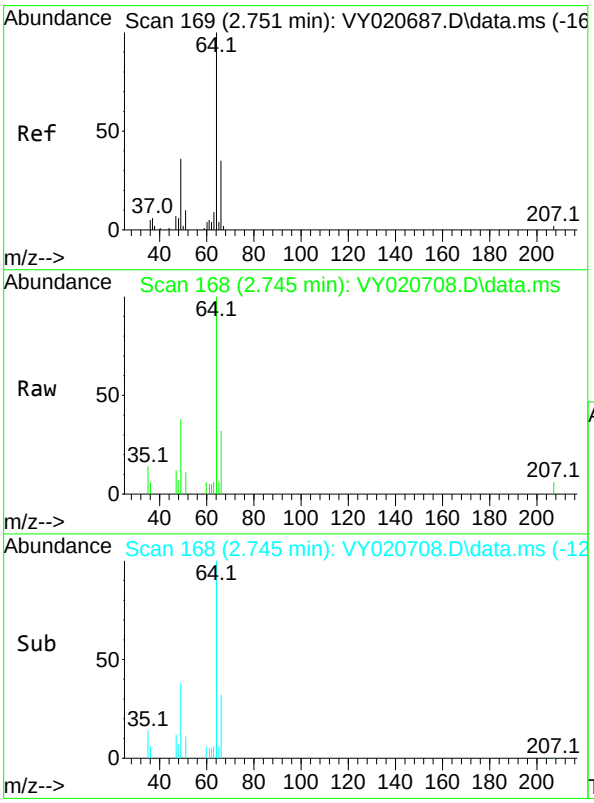

#5
Bromomethane
Concen: 18.699 ug/l
RT: 2.611 min Scan# 14
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 94 Resp: 6370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 85.5 | 71.0 | 106.6 |

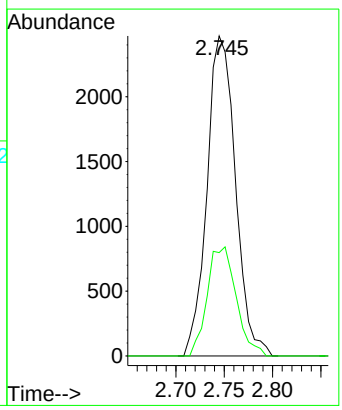


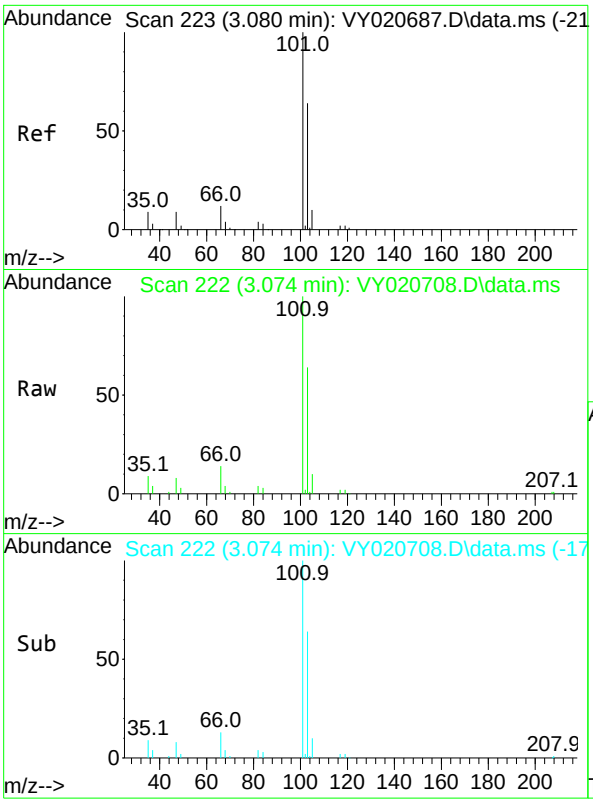




#6
Chloroethane
Concen: 18.687 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 64 Resp: 5058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.3 | 27.8 | 41.8 |



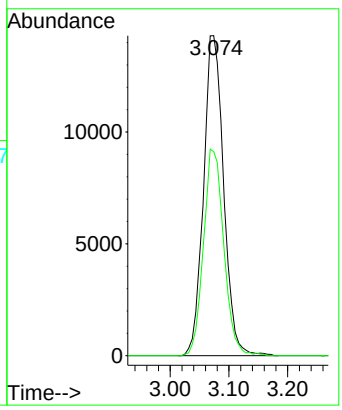


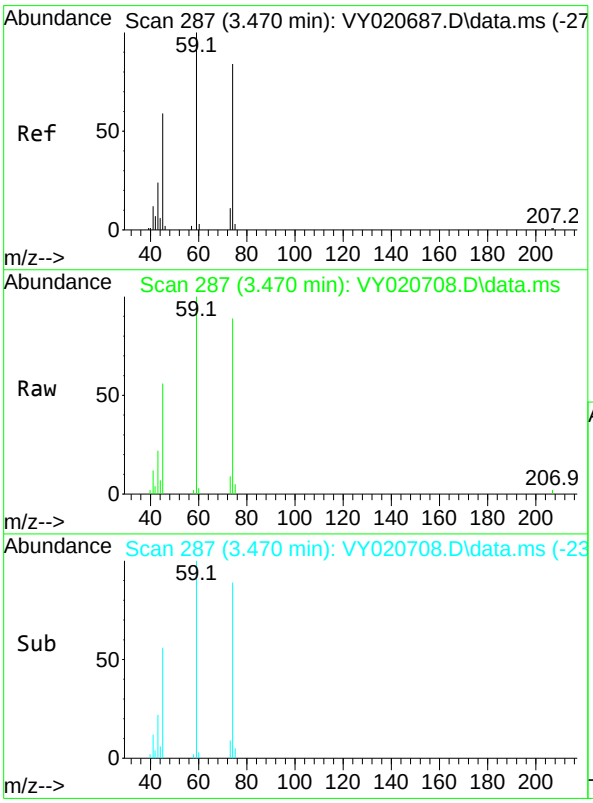

#7
Trichlorofluoromethane
Concen: 19.610 ug/l
RT: 3.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 34026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 51.4 | 77.0 |

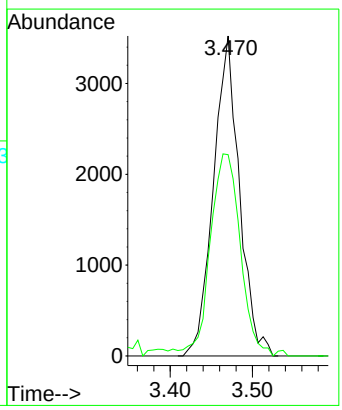


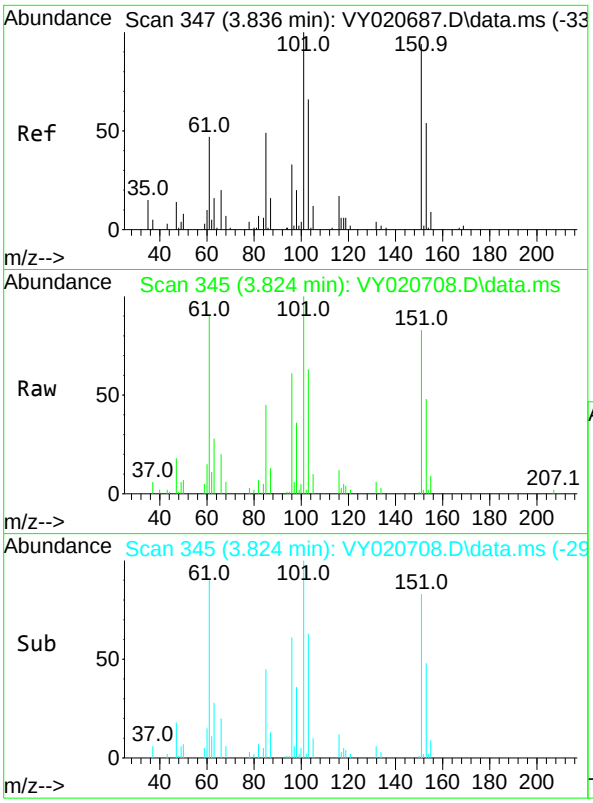




#8
Diethyl Ether
Concen: 18.739 ug/l
RT: 3.470 min Scan# 287
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 74 Resp: 7737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 72.7 | 35.8 | 107.4 |



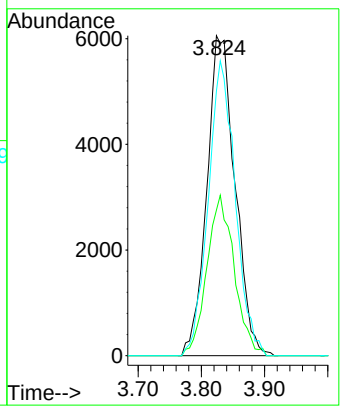


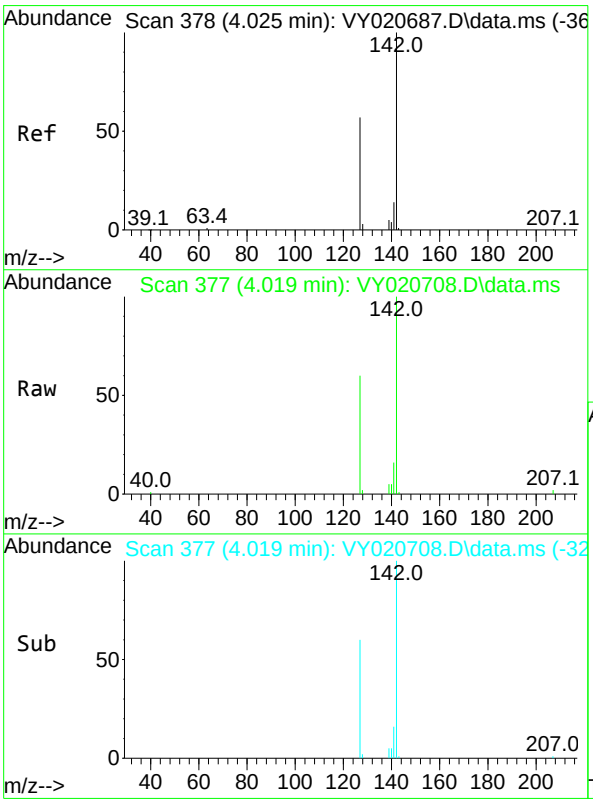

#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.675 ug/l
RT: 3.824 min Scan# 34
Delta R.T. -0.012 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 18742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 48.7 | 38.2 | 57.2 |
| 151 | 88.6 | 68.4 | 102.6 |

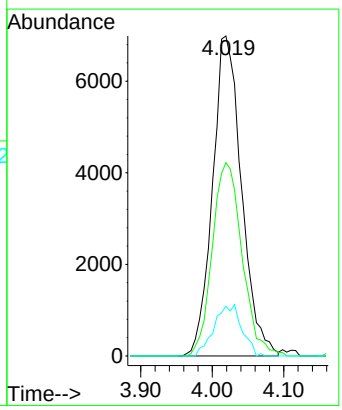


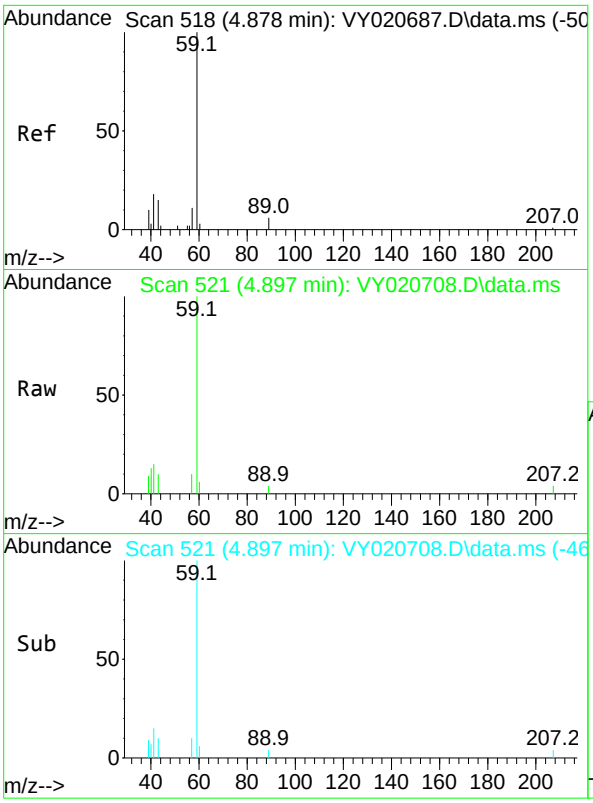




#10
Methyl Iodide
Concen: 18.866 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:142 Resp: 19652

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 62.1 | 48.8 | 73.2 |
| 141 | 15.3 | 11.9 | 17.9 |



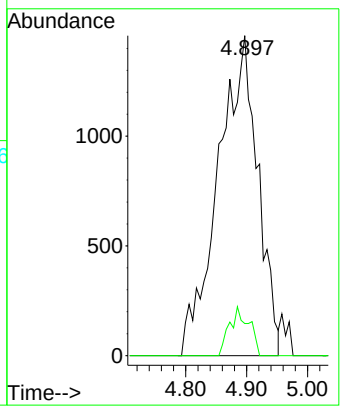


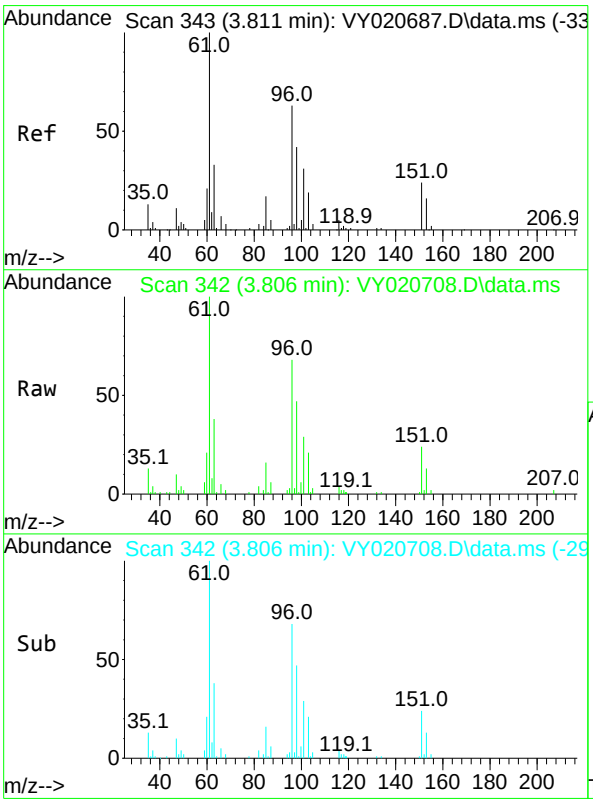

#11
Tert butyl alcohol
Concen: 90.235 ug/l
RT: 4.897 min Scan# 5
Delta R.T. 0.019 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 59 Resp: 6567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 7.5 | 2.8 | 4.2# |

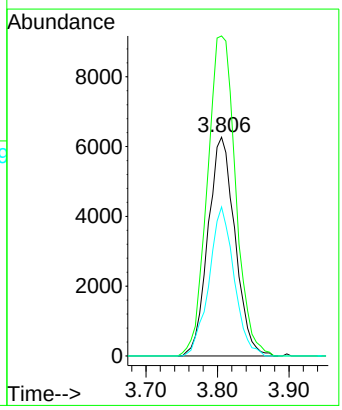


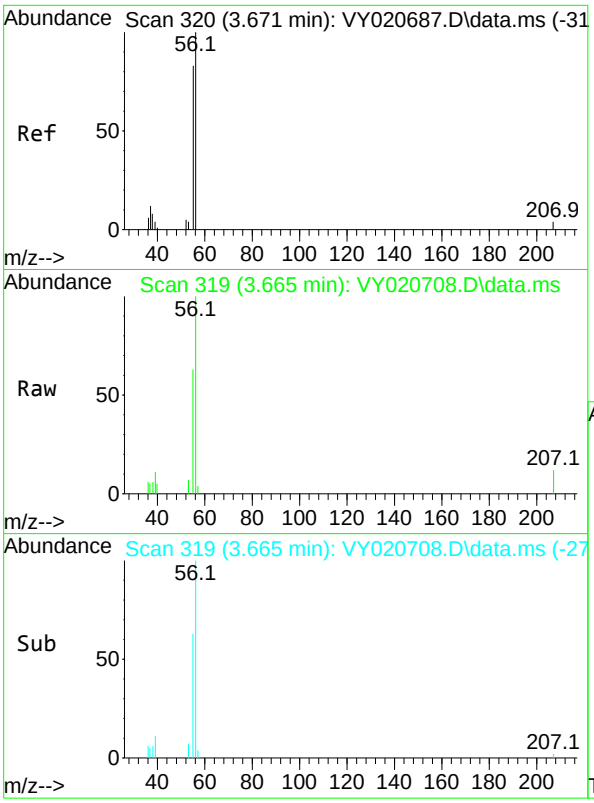




#12
1,1-Dichloroethene
Concen: 19.312 ug/l
RT: 3.806 min Scan# 342
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 96 Resp: 16374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.3 | 127.1 | 190.7 |
| 98 | 68.1 | 53.4 | 80.0 |



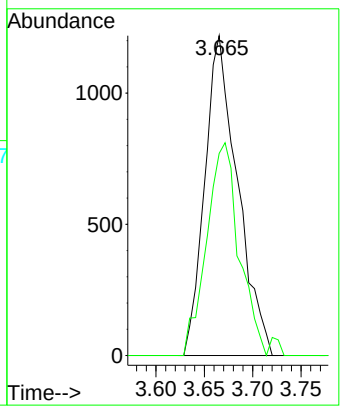


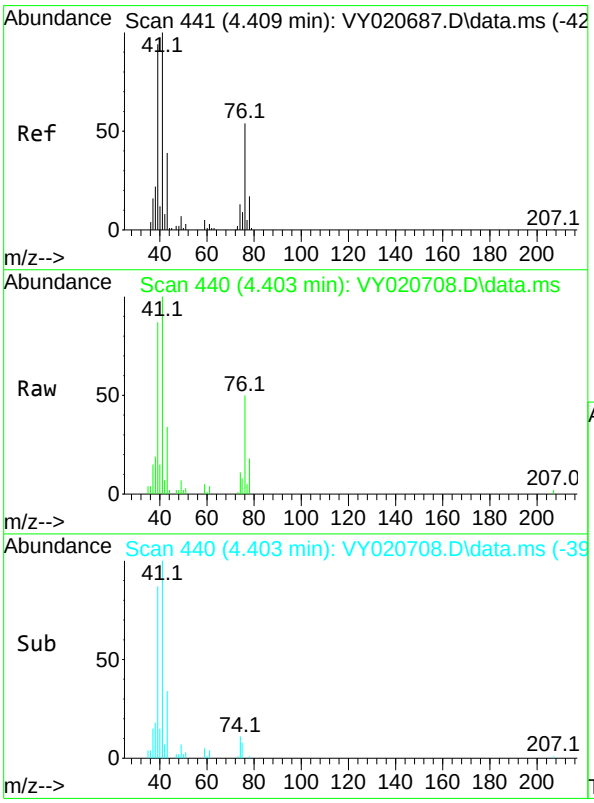

#13
Acrolein
Concen: 134.971 ug/l
RT: 3.665 min Scan# 31
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 2867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 66.0 | 57.0 | 85.4 |

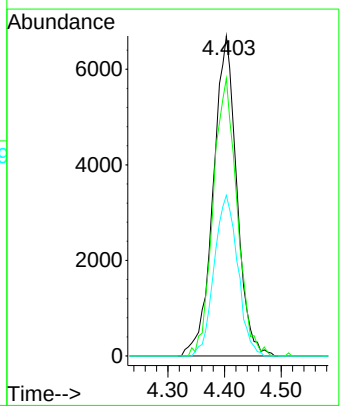


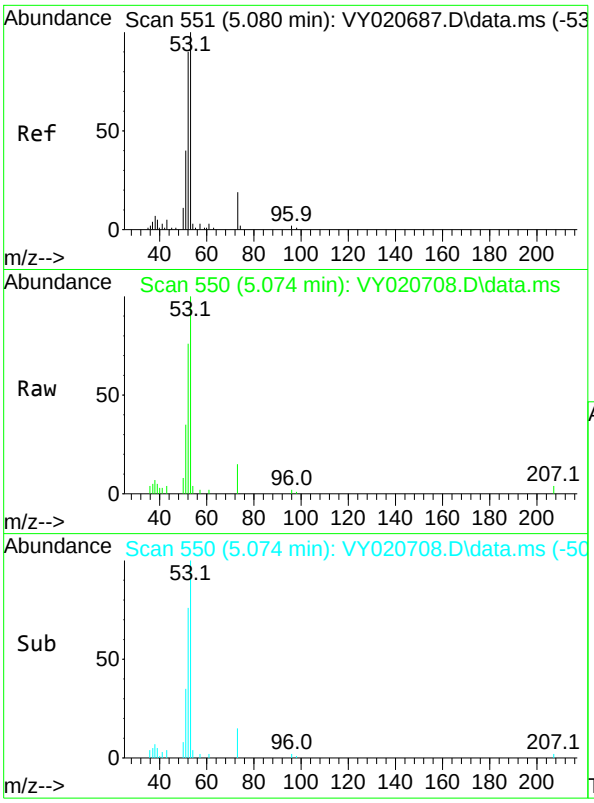




#14
Allyl chloride
Concen: 19.468 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 41 Resp: 19316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 87.9 | 73.5 | 110.3 |
| 76 | 50.2 | 41.8 | 62.8 |



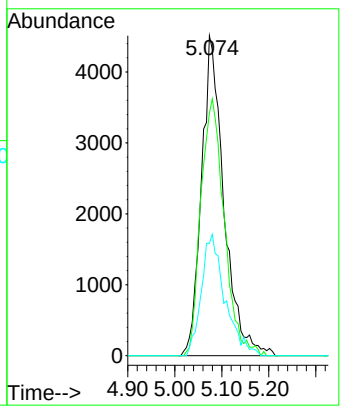


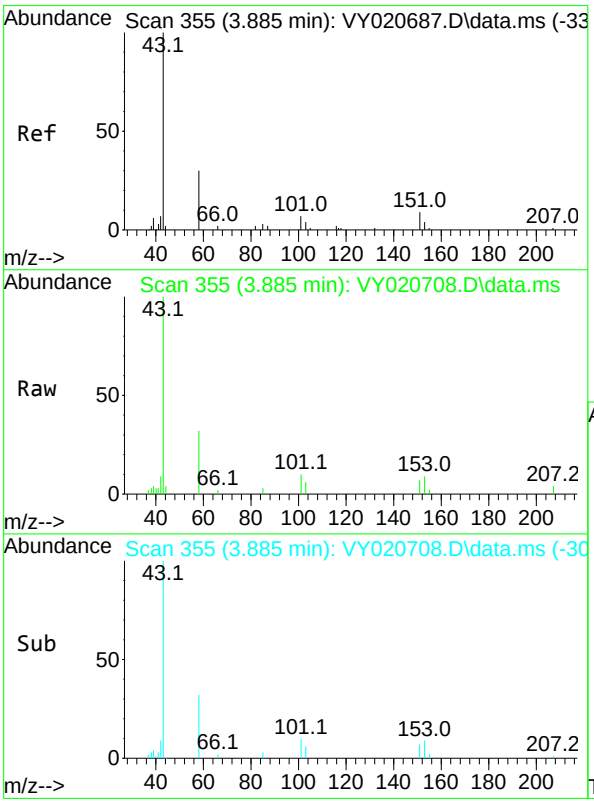

#15
Acrylonitrile
Concen: 93.535 ug/l
RT: 5.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 53 Resp: 14919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.2 | 67.1 | 100.7 |
| 51 | 39.9 | 31.4 | 47.0 |

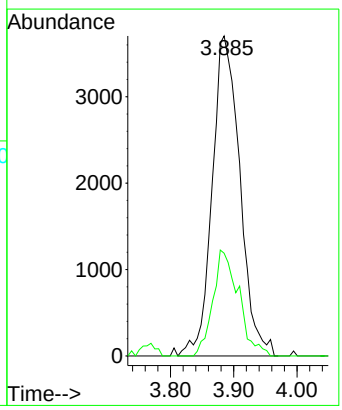


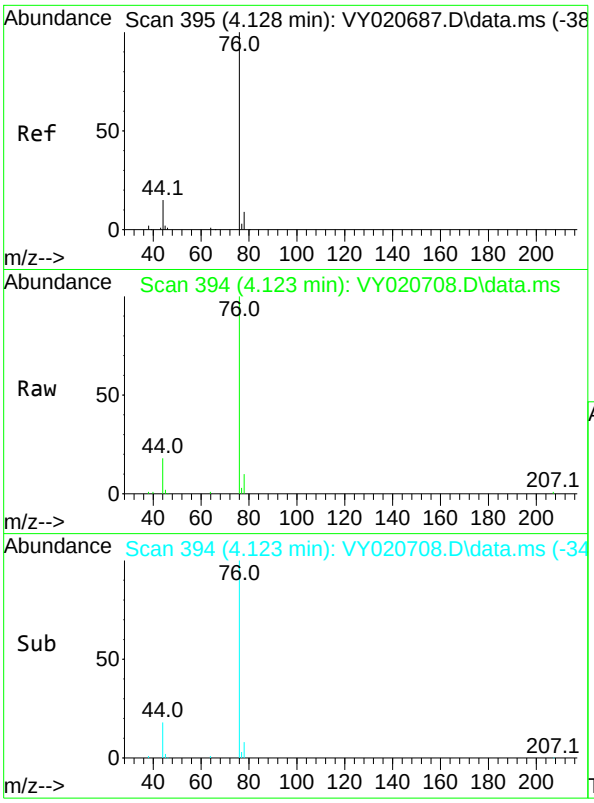




#16
Acetone
Concen: 87.443 ug/l
RT: 3.885 min Scan# 355
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 11272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.1 | 25.0 | 37.6 |



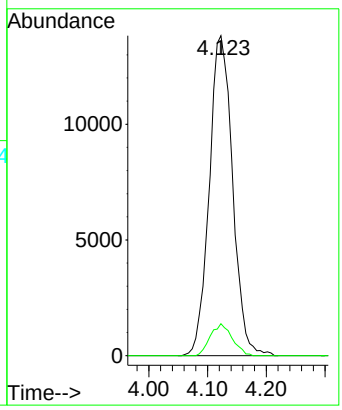


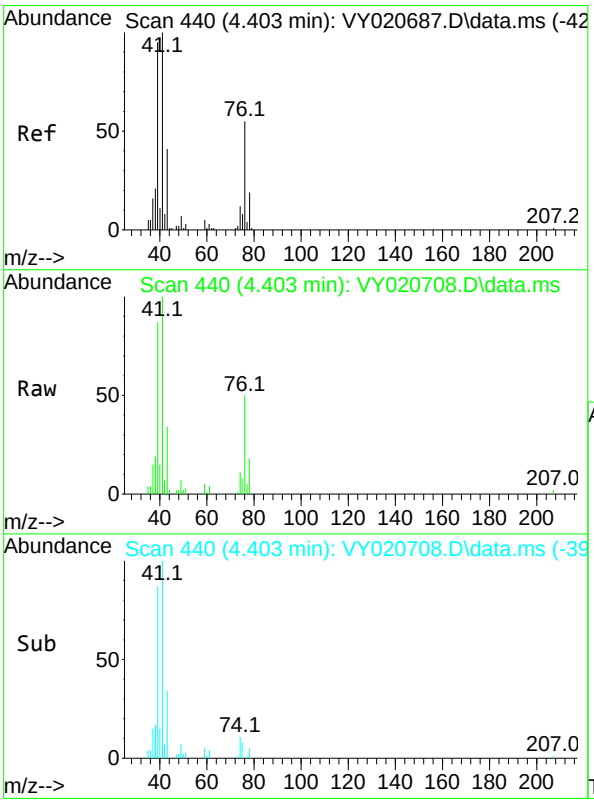

#17
Carbon Disulfide
Concen: 18.338 ug/l
RT: 4.123 min Scan# 3
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 38140

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.0 | 6.9 | 10.3 |

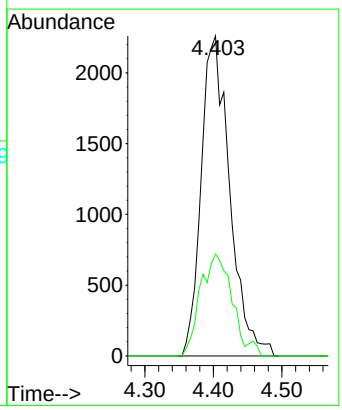


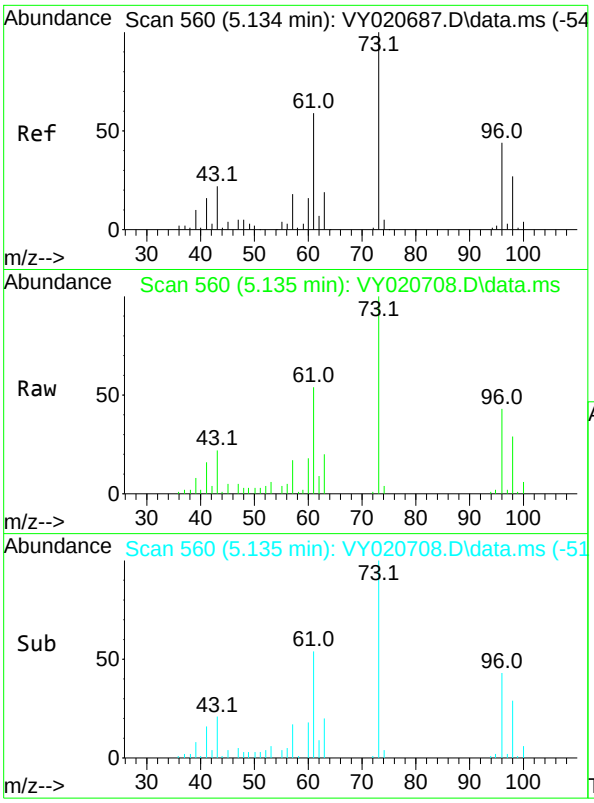




#18
Methyl Acetate
Concen: 18.708 ug/l
RT: 4.403 min Scan# 440
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 6527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 35.6 | 25.3 | 37.9 |



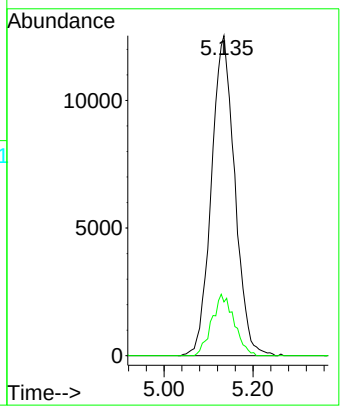


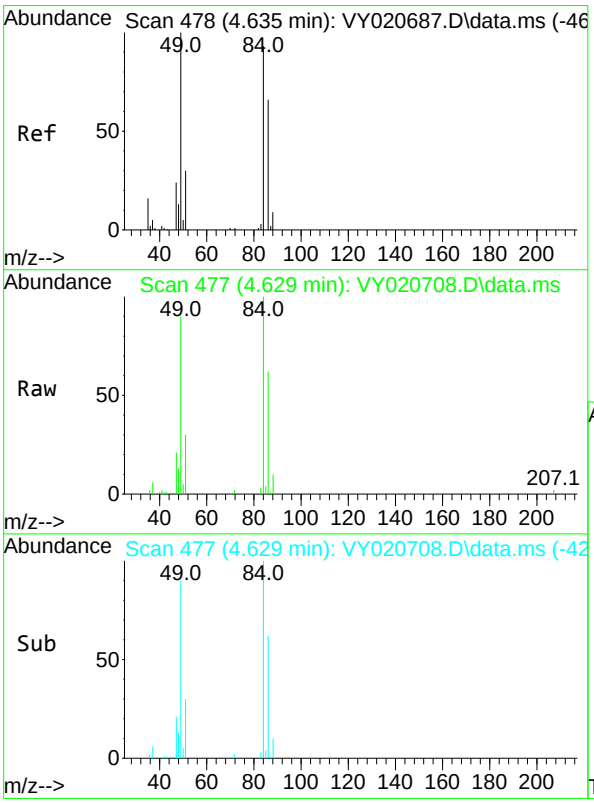

#19
Methyl tert-butyl Ether
Concen: 19.355 ug/l
RT: 5.135 min Scan# 5
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 73 Resp: 45739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 16.8 | 14.4 | 21.6 |

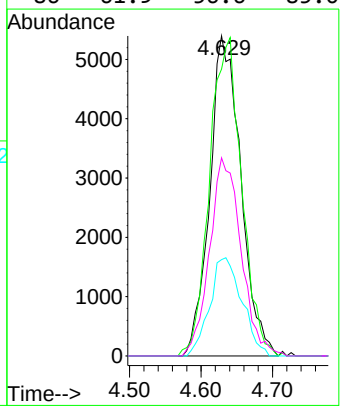


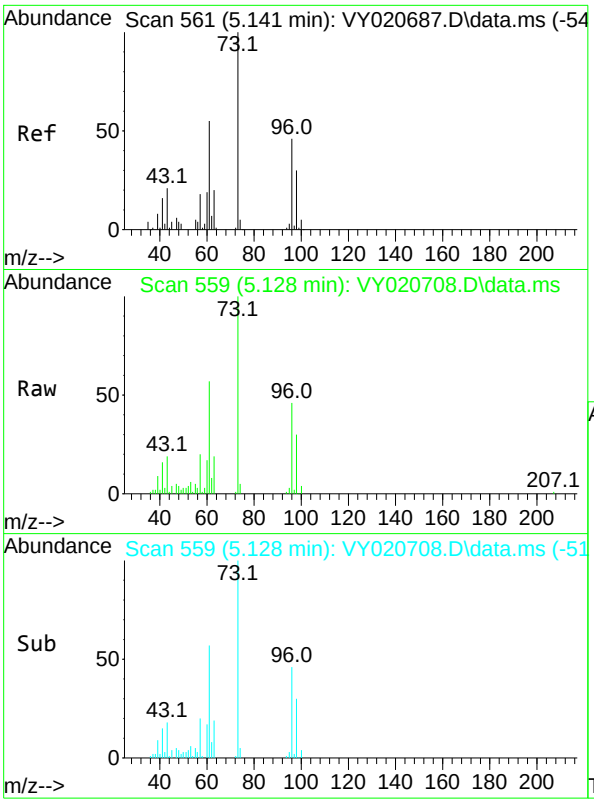




#20
Methylene Chloride
Concen: 19.426 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 84 Resp: 16287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 89.6 | 86.4 | 129.6 |
| 51 | 30.1 | 25.5 | 38.3 |
| 86 | 61.9 | 56.6 | 85.0 |



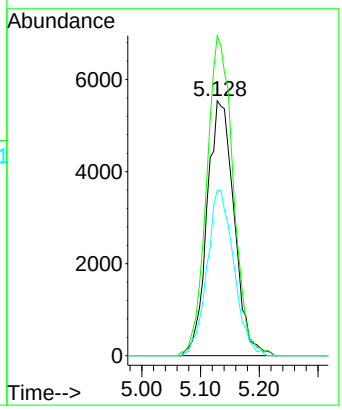


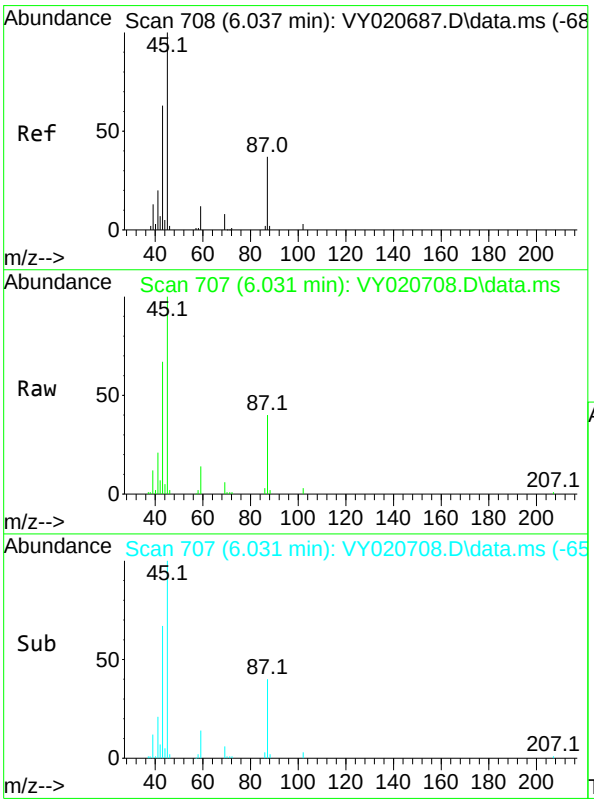

#21
trans-1,2-Dichloroethene
Concen: 19.342 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.013 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 17672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 125.5 | 96.1 | 144.1 |
| 98 | 64.9 | 52.7 | 79.1 |

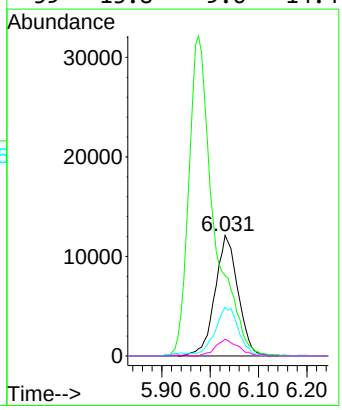


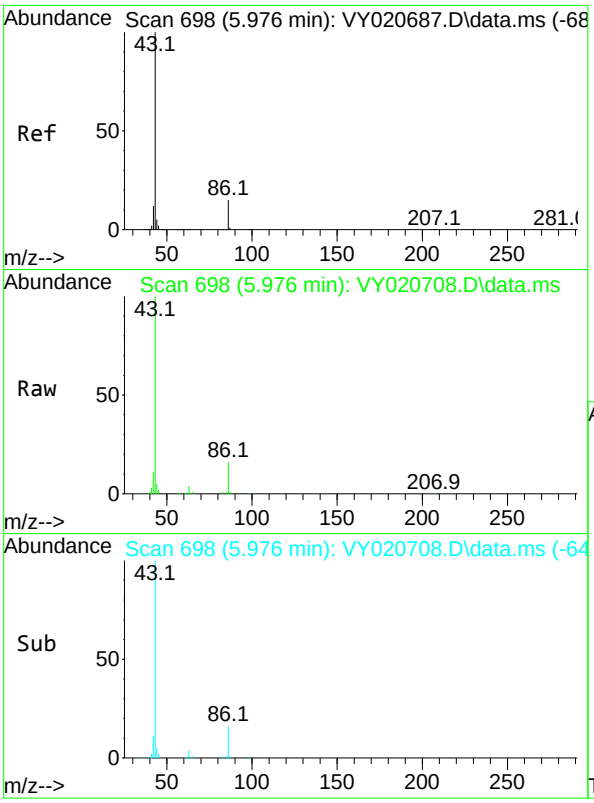




#22
Diisopropyl ether
Concen: 19.778 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 45 Resp: 39891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.8 | 51.3 | 76.9 |
| 87 | 40.5 | 30.6 | 46.0 |
| 59 | 13.8 | 9.6 | 14.4 |



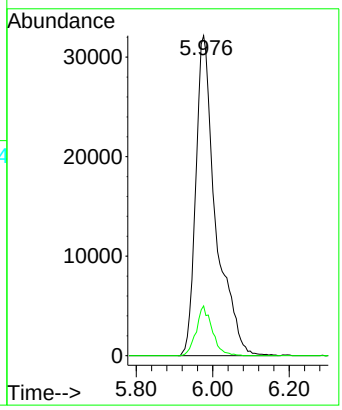


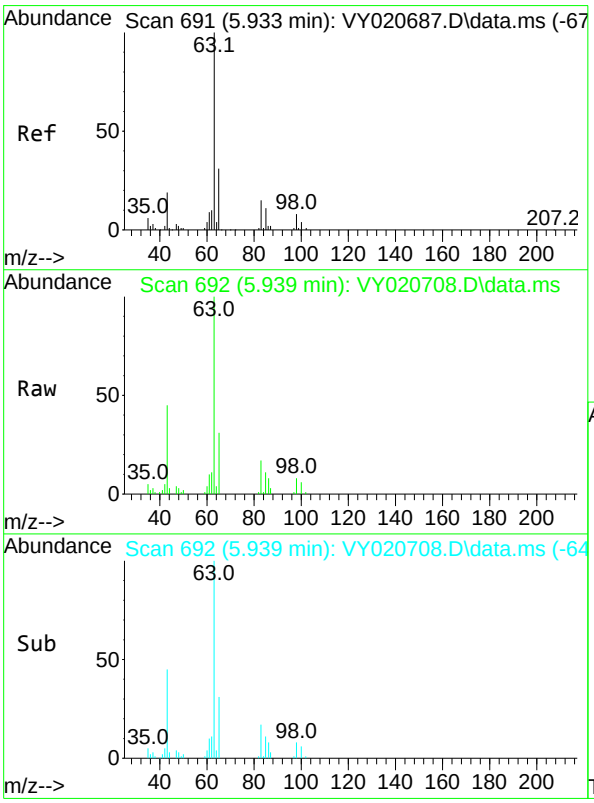

#23
Vinyl Acetate
Concen: 96.512 ug/l
RT: 5.976 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 116269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 15.5 | 12.0 | 18.0 |

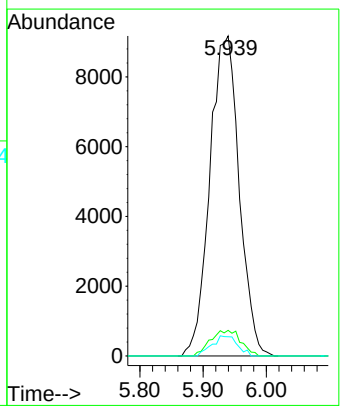


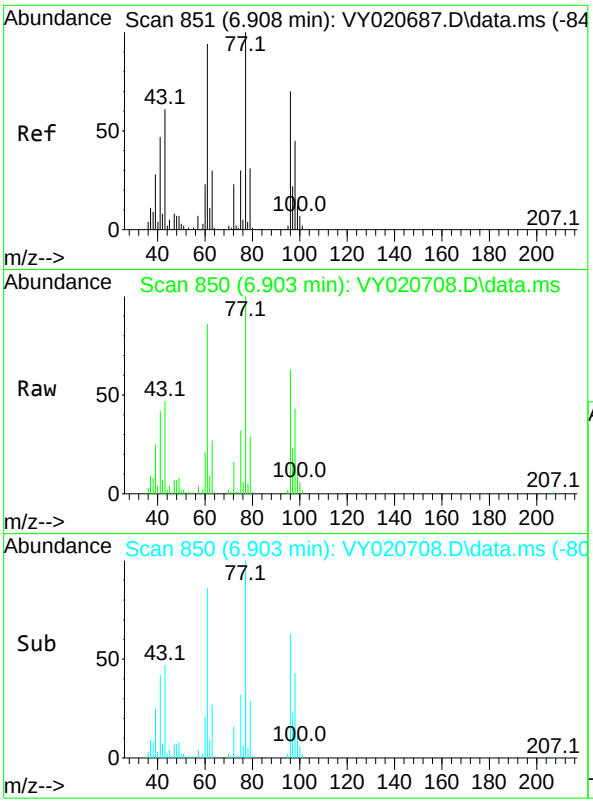




#24
1,1-Dichloroethane
Concen: 19.545 ug/l
RT: 5.939 min Scan# 692
Delta R.T. 0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 63 Resp: 29556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.0 | 4.0 | 12.0 |
| 100 | 6.0 | 2.1 | 6.2 |



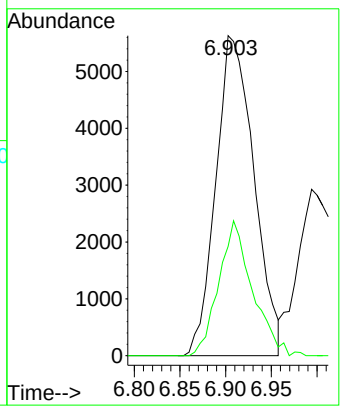


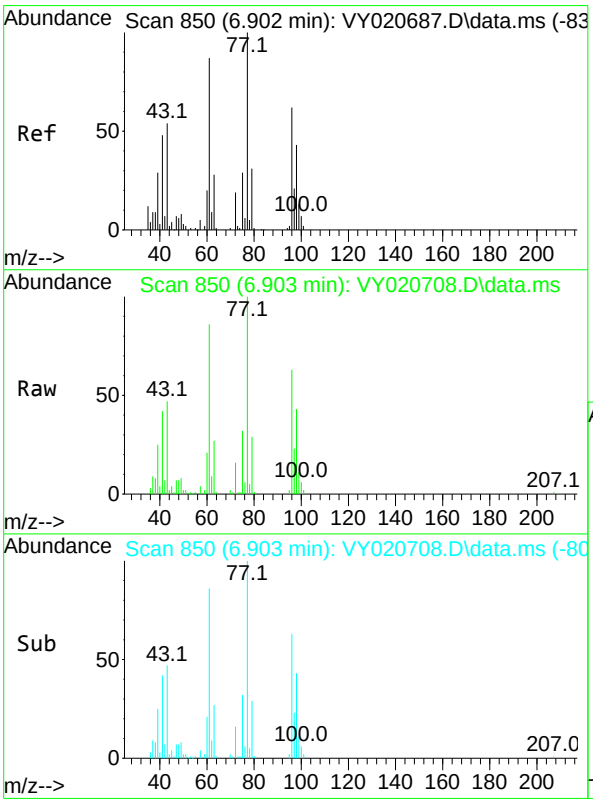

#25
2-Butanone
Concen: 93.814 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 16336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 34.2 | 29.5 | 44.3 |

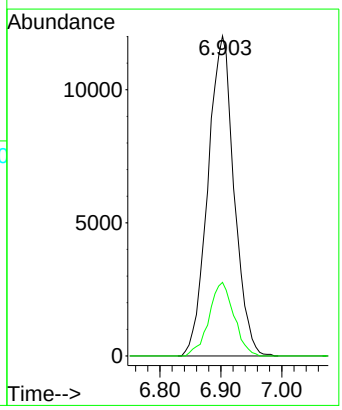


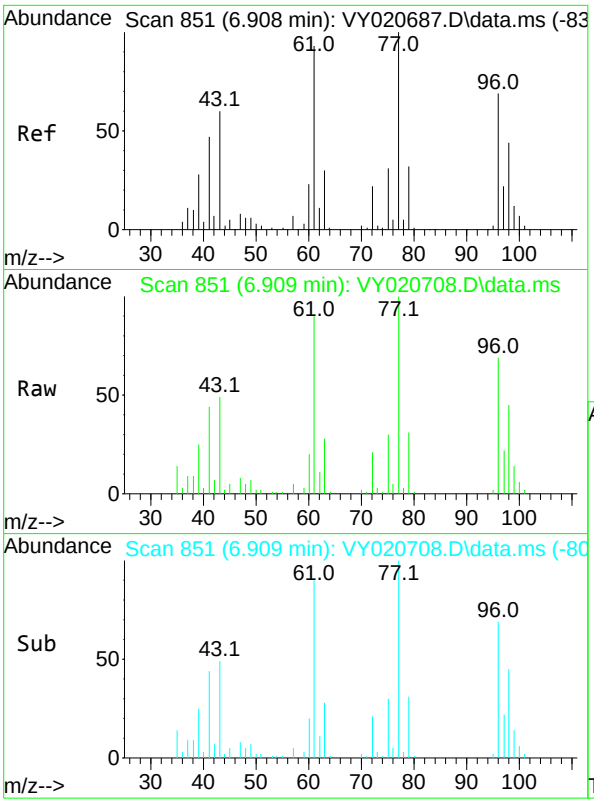




#26
2,2-Dichloropropane
Concen: 19.368 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 77 Resp: 35847

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.8 | 32.4 |



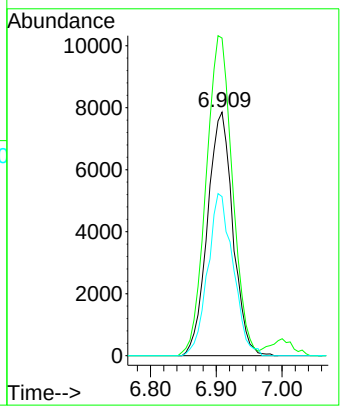


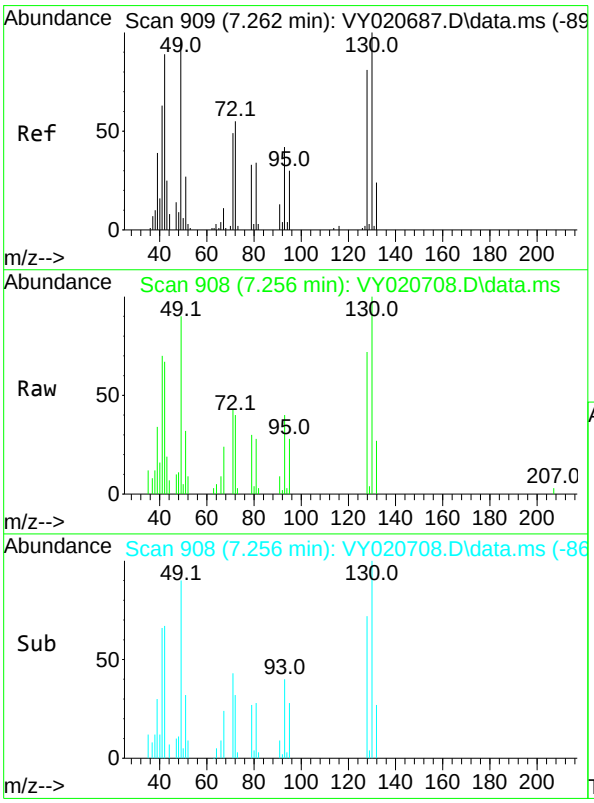

#27
cis-1,2-Dichloroethene
Concen: 19.320 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 21139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.1 | 0.0 | 277.2 |
| 98 | 66.5 | 0.0 | 131.0 |

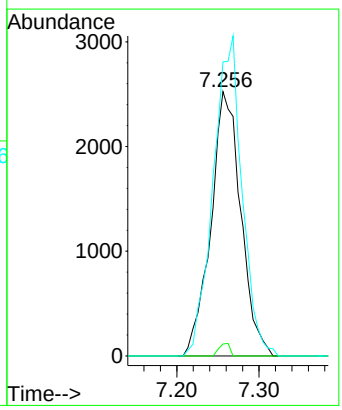


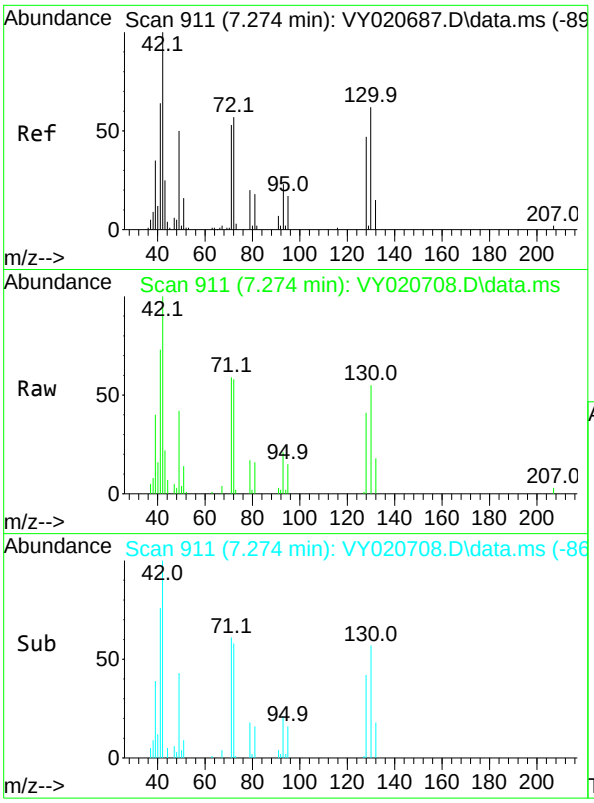




#28
Bromochloromethane
Concen: 15.974 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 49 Resp: 6388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.7 | 0.0 | 5.4 |
| 130 | 116.7 | 87.2 | 130.8 |



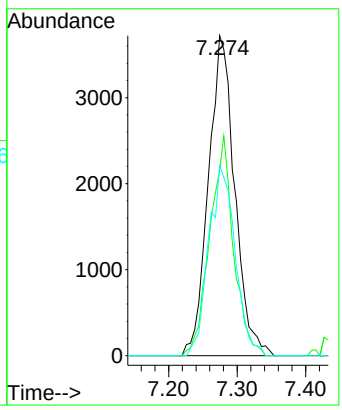


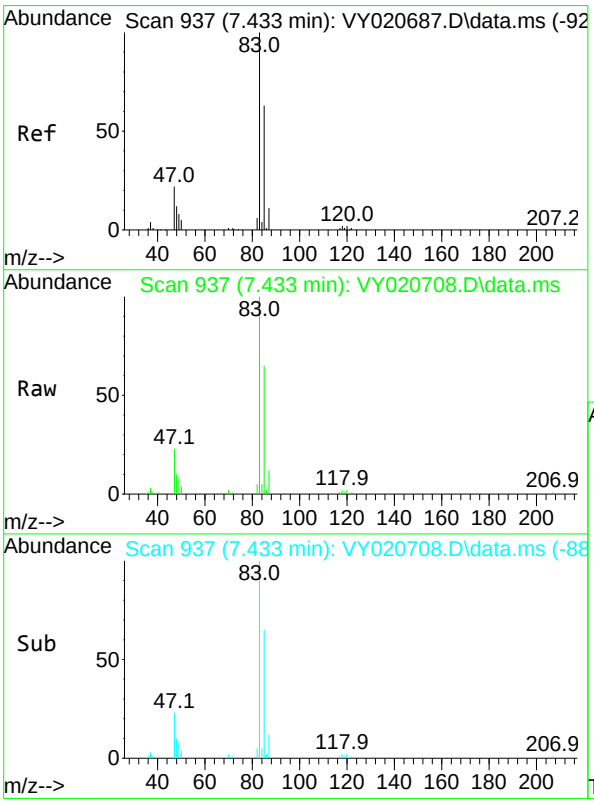

#29
Tetrahydrofuran
Concen: 92.698 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 42 Resp: 9908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 62.0 | 47.4 | 71.0 |
| 71 | 59.8 | 42.8 | 64.2 |

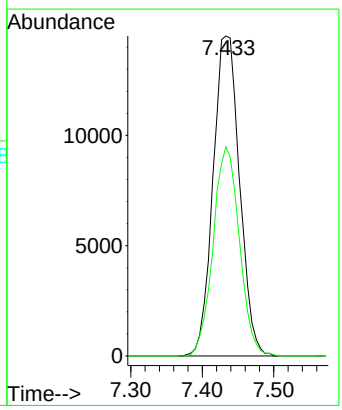


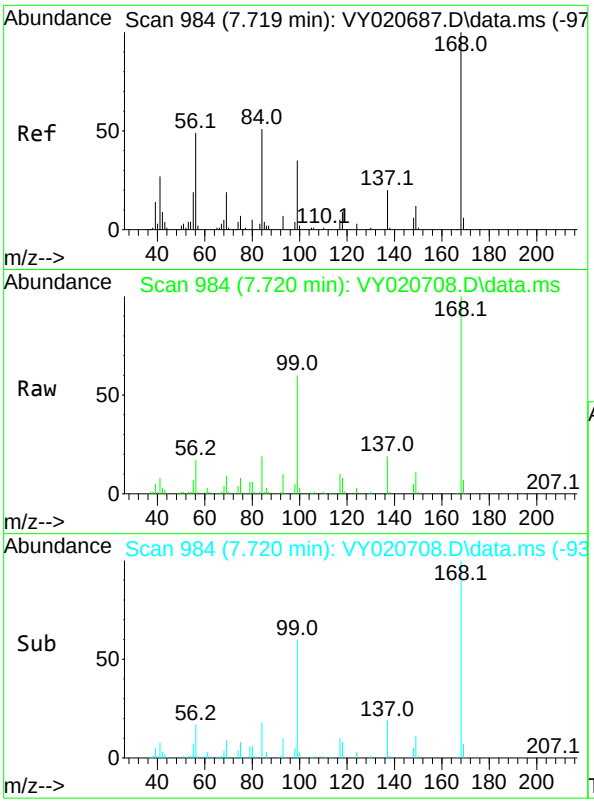




#30
Chloroform
Concen: 19.200 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 83 Resp: 37350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.4 | 50.2 | 75.2 |



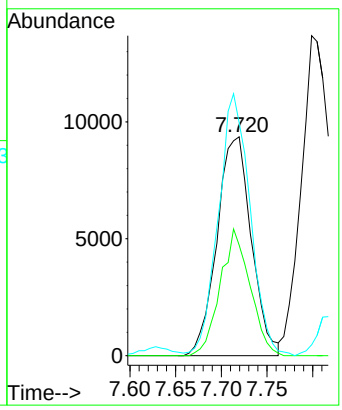


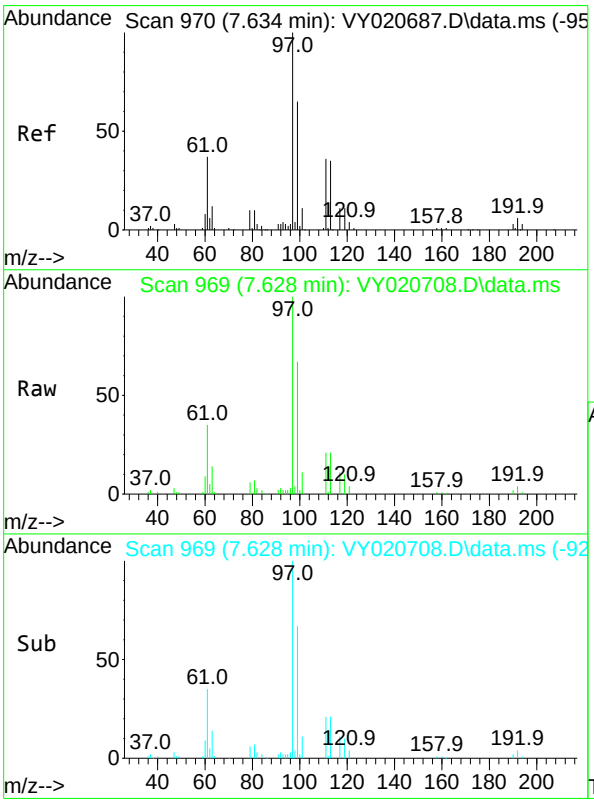

#31
Cyclohexane
Concen: 18.736 ug/l
RT: 7.720 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 24456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 50.5 | 31.3 | 46.9# |
| 84 | 104.8 | 83.9 | 125.9 |

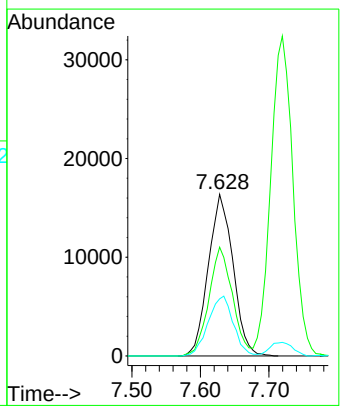


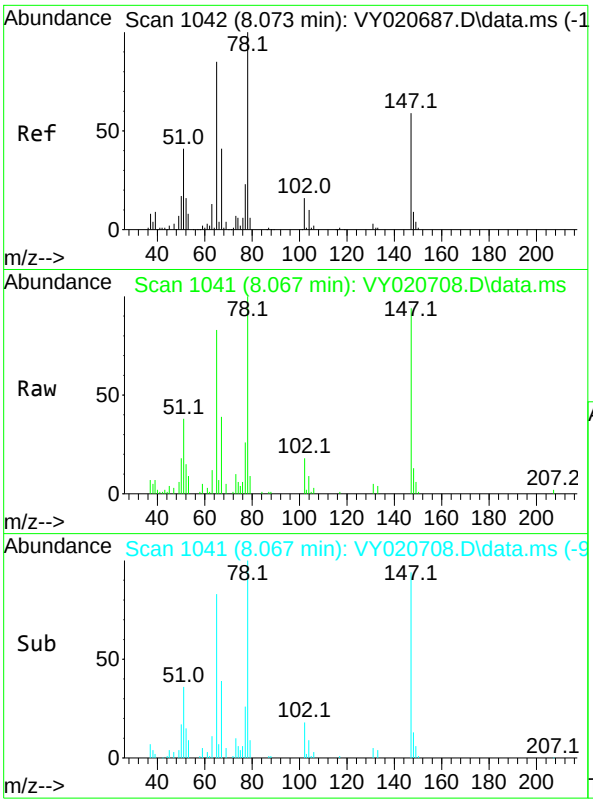




#32
1,1,1-Trichloroethane
Concen: 19.656 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 97 Resp: 40987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 51.0 | 76.6 |
| 61 | 37.6 | 30.0 | 45.0 |



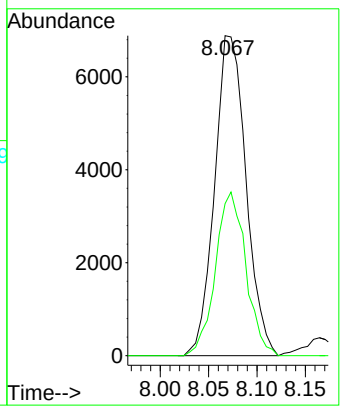


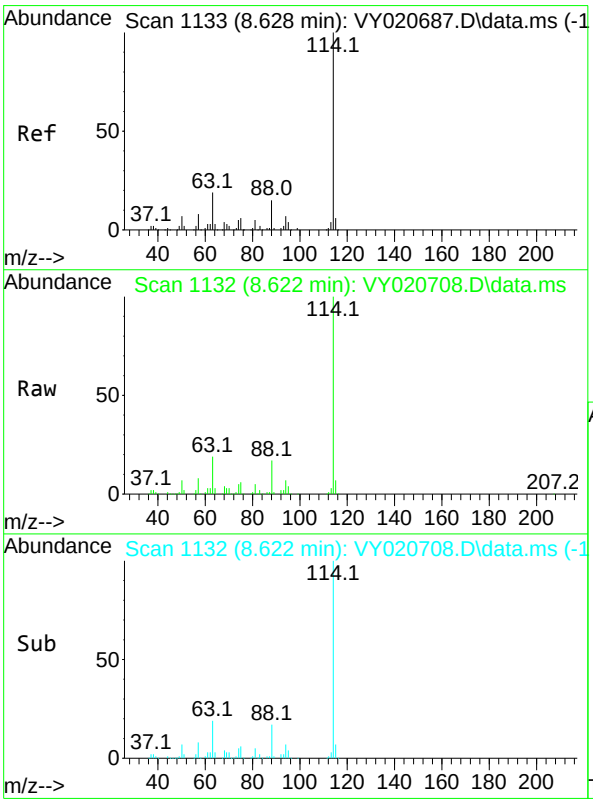

#33
1,2-Dichloroethane-d4
Concen: 15.300 ug/l
RT: 8.067 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 65 Resp: 15547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 49.6 | 0.0 | 98.0 |

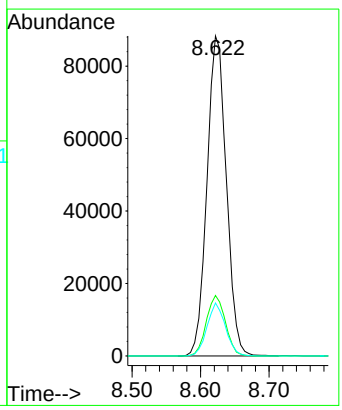


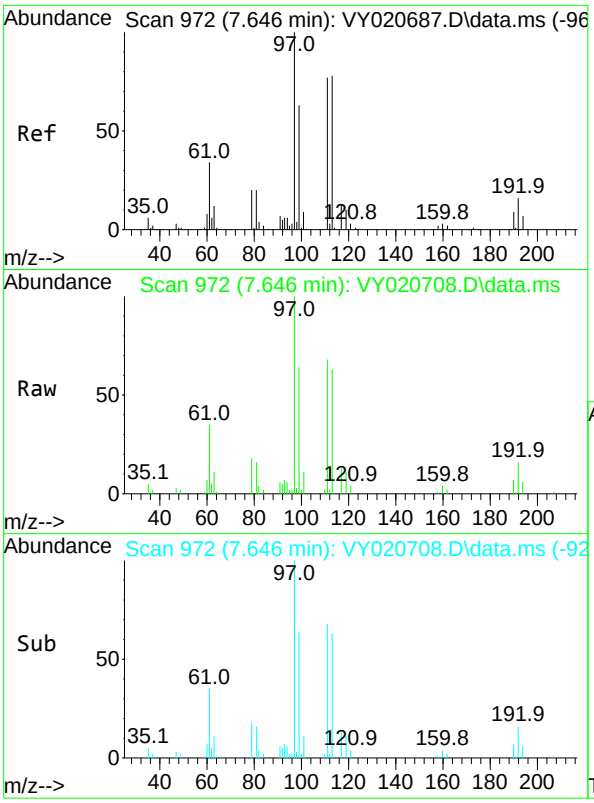




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:114 Resp: 173311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.9 | 0.0 | 38.4 |
| 88 | 16.6 | 0.0 | 30.4 |



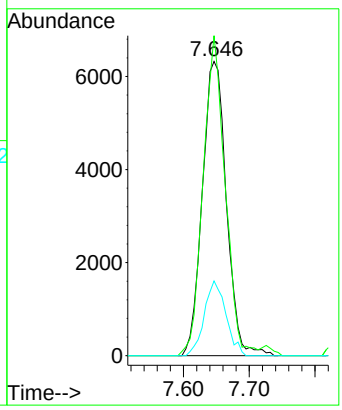


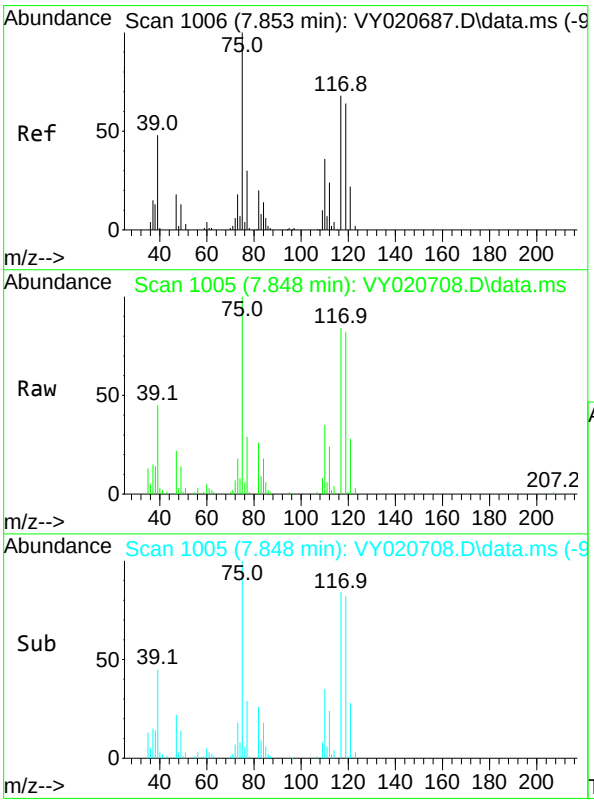

#35
Dibromofluoromethane
Concen: 16.876 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:113 Resp: 16110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 99.4 | 79.8 | 119.8 |
| 192 | 22.9 | 17.0 | 25.6 |

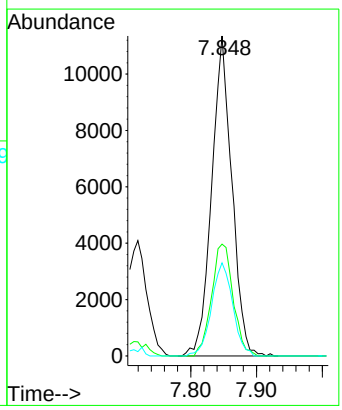


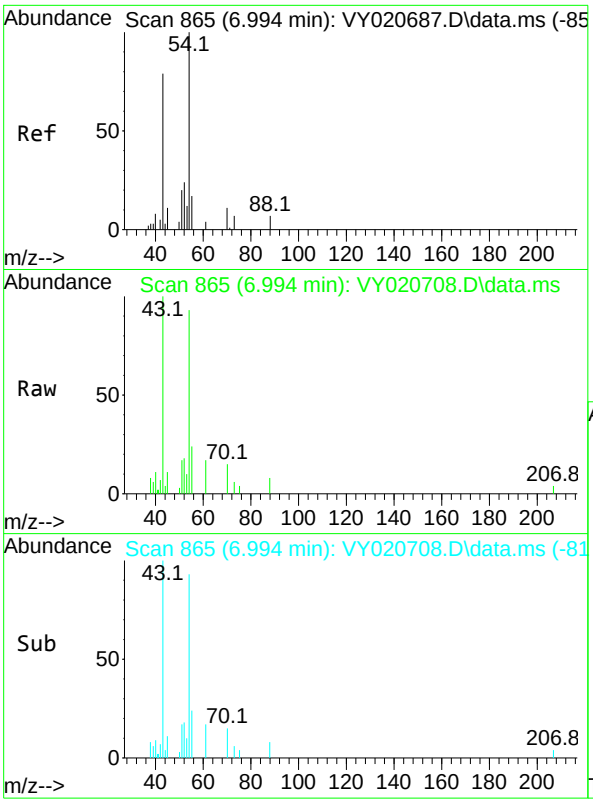




#36
1,1-Dichloropropene
Concen: 19.240 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 75 Resp: 24262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.3 | 19.6 | 58.7 |
| 77 | 30.6 | 25.1 | 37.7 |



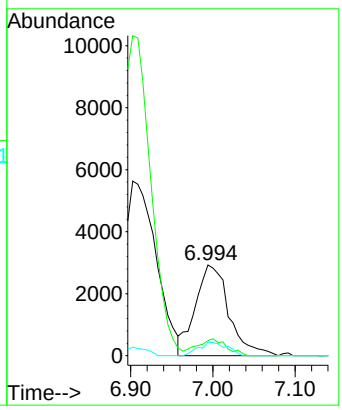


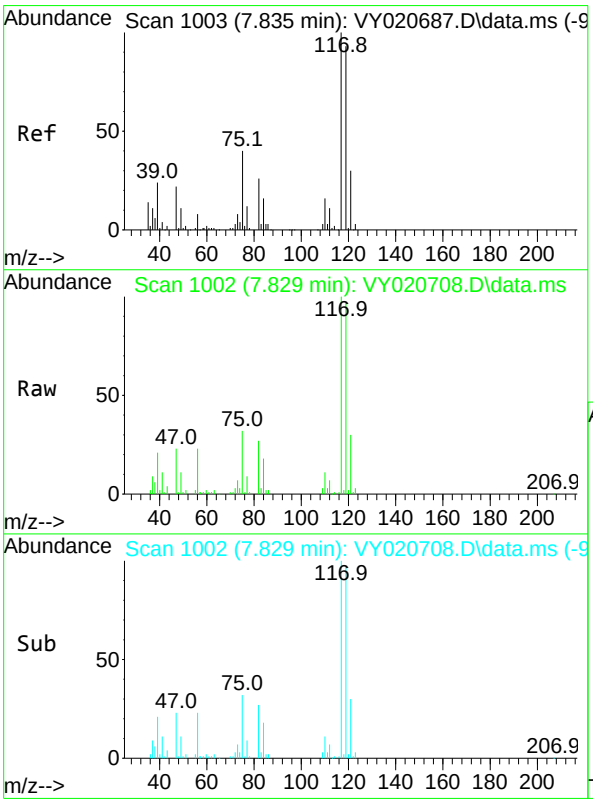

#37
Ethyl Acetate
Concen: 19.972 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 8299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.3 | 11.7 | 17.5 |
| 70 | 12.5 | 11.0 | 16.4 |

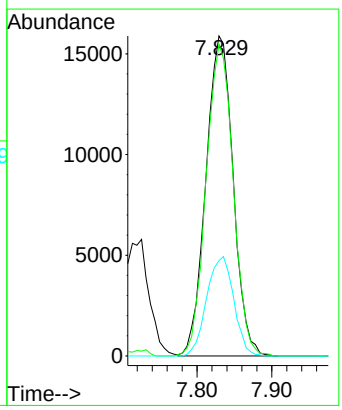


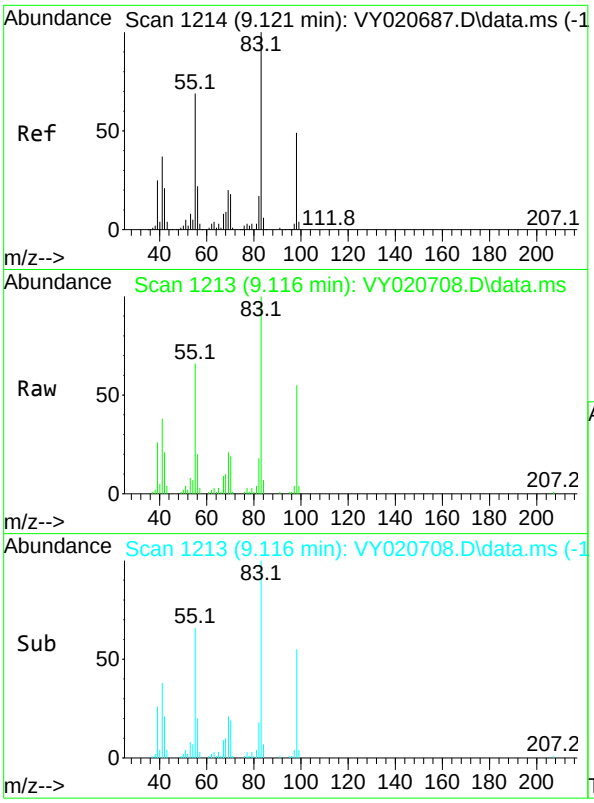




#38
Carbon Tetrachloride
Concen: 19.409 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:117 Resp: 40302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.4 | 74.4 | 111.6 |
| 121 | 29.8 | 24.2 | 36.2 |



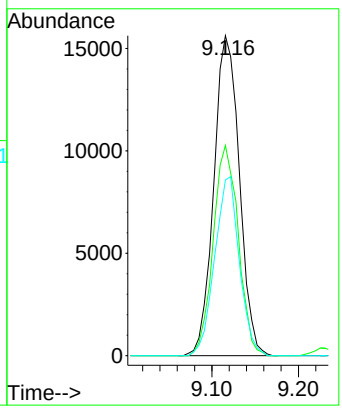


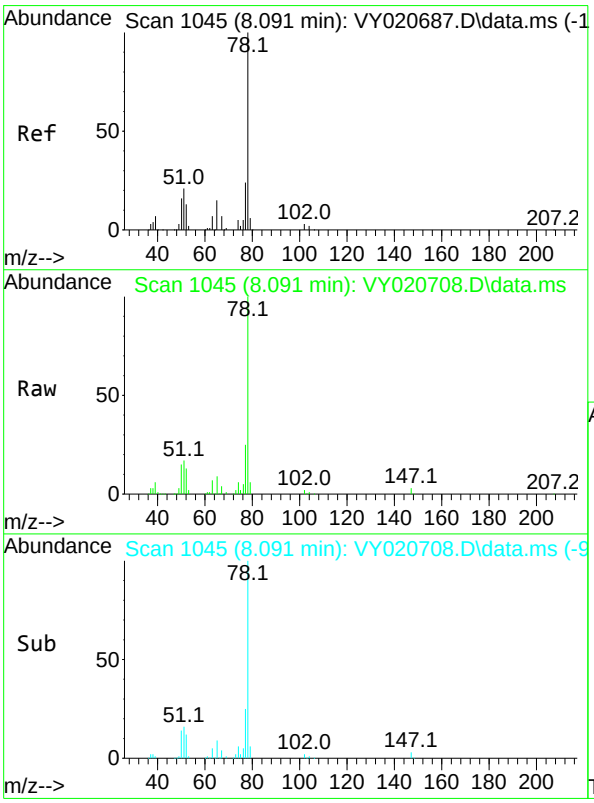

#39
Methylcyclohexane
Concen: 19.803 ug/l
RT: 9.116 min Scan# 1
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 32007

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.7 | 55.0 | 82.4 |
| 98 | 54.9 | 39.0 | 58.6 |

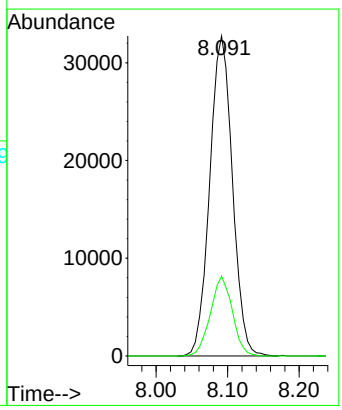


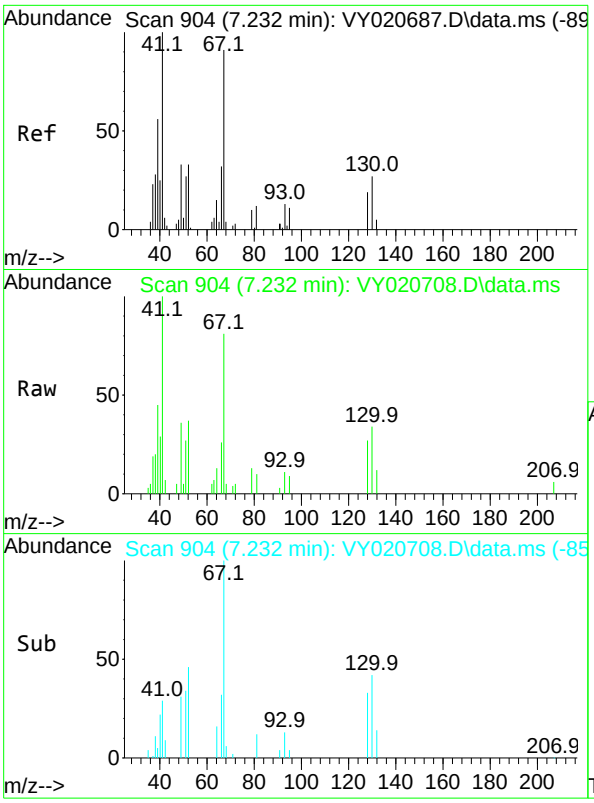




#40
Benzene
Concen: 19.731 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 78 Resp: 72108

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.0 | 19.2 | 28.8 |



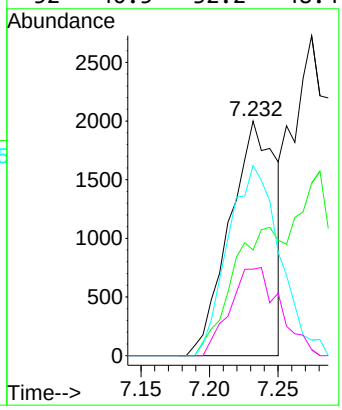


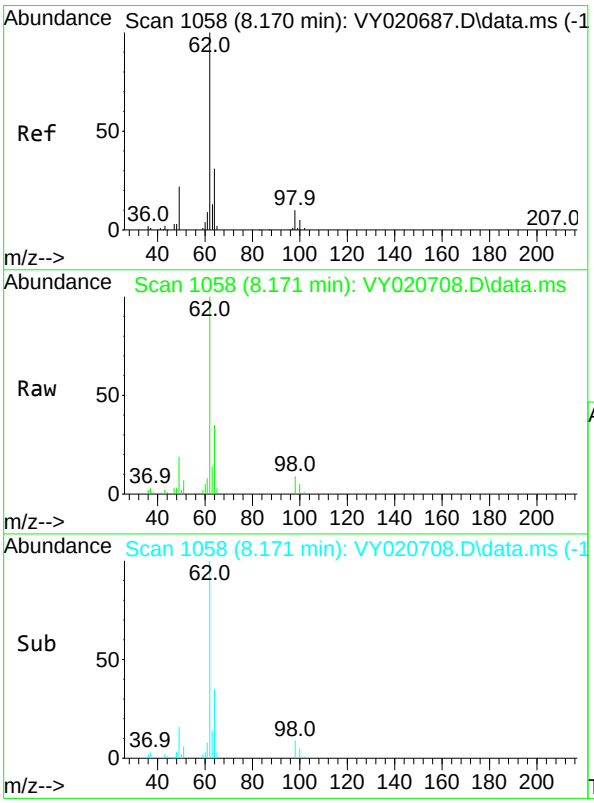

#41
Methacrylonitrile
Concen: 22.206 ug/l
RT: 7.232 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 41 Resp: 4661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 62.7 | 46.6 | 70.0 |
| 67 | 92.0 | 74.7 | 112.1 |
| 52 | 40.5 | 32.2 | 48.4 |

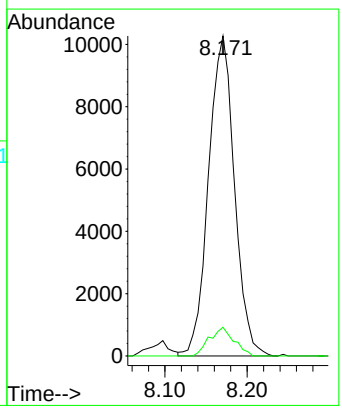


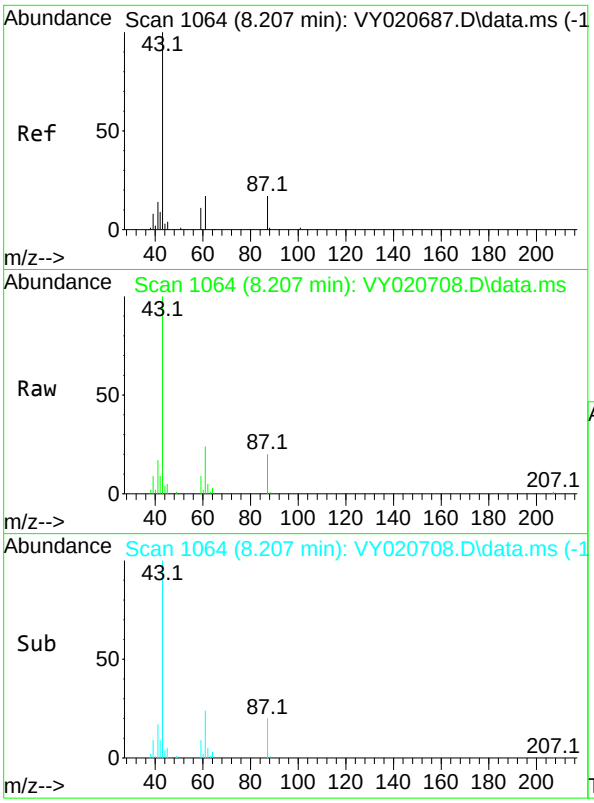




#42
1,2-Dichloroethane
Concen: 19.227 ug/l
RT: 8.171 min Scan# 1058
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 62 Resp: 22531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.5 | 0.0 | 16.6 |



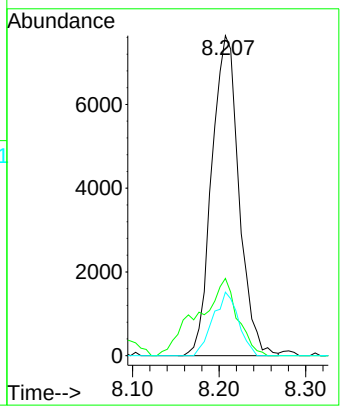


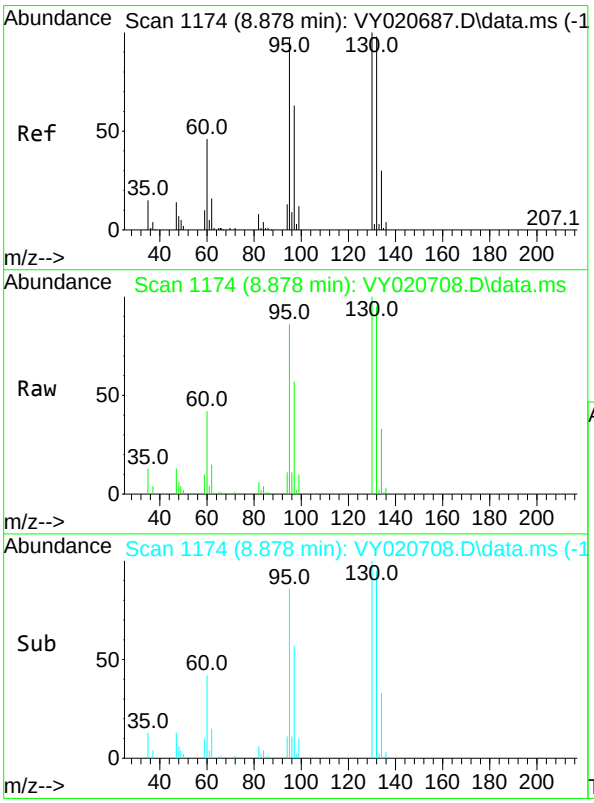

#43
Isopropyl Acetate
Concen: 18.834 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 16635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 34.9 | 27.0 | 40.4 |
| 87 | 18.6 | 14.2 | 21.4 |

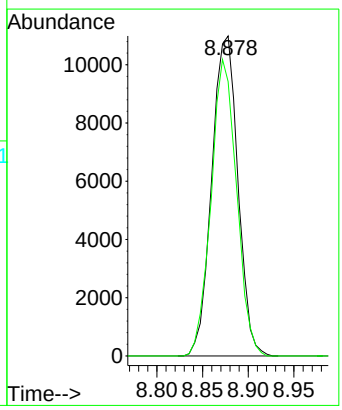


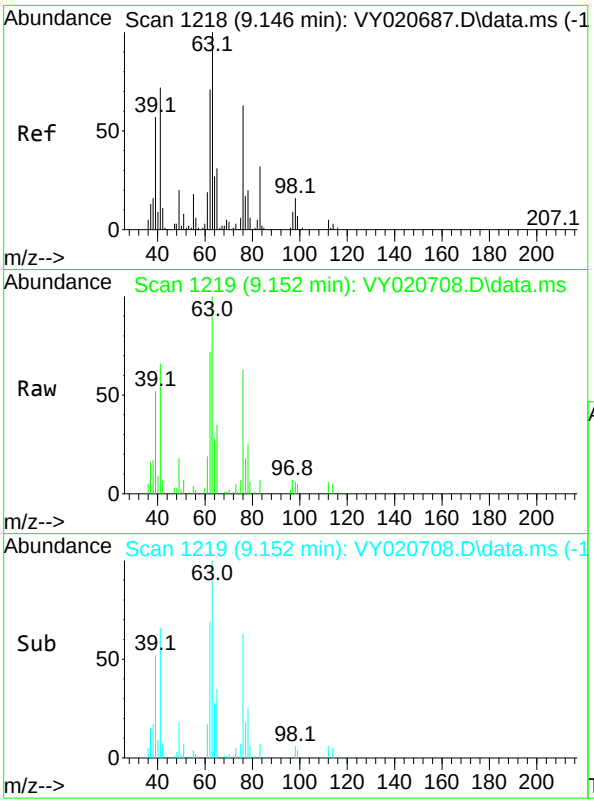




#44
Trichloroethene
Concen: 20.026 ug/l
RT: 8.878 min Scan# 1174
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:130 Resp: 21859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 85.7 | 0.0 | 194.8 |



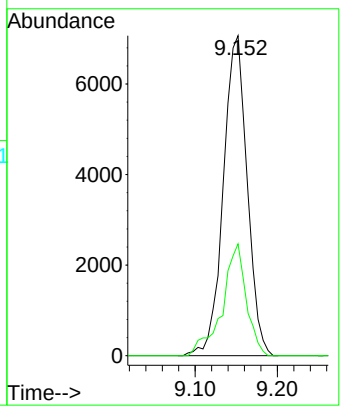


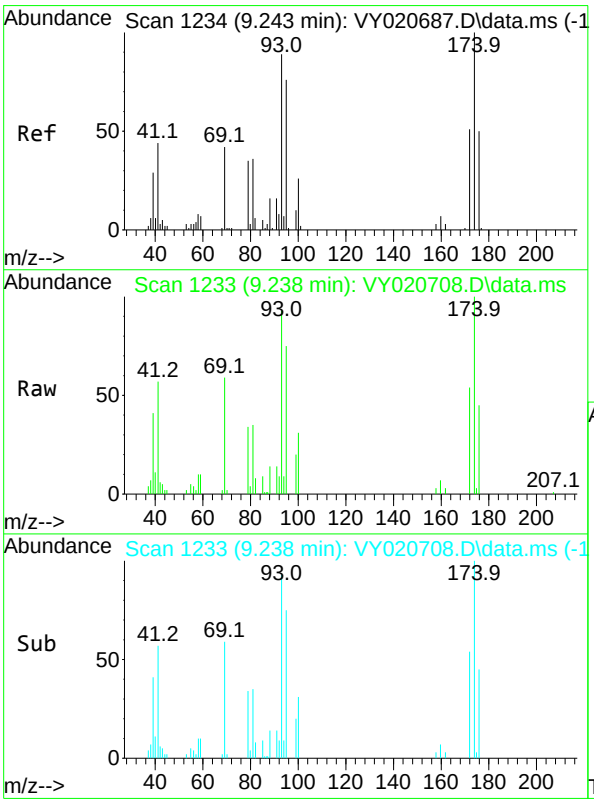

#45
1,2-Dichloropropane
Concen: 19.256 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 63 Resp: 14245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 35.0 | 24.6 | 36.8 |

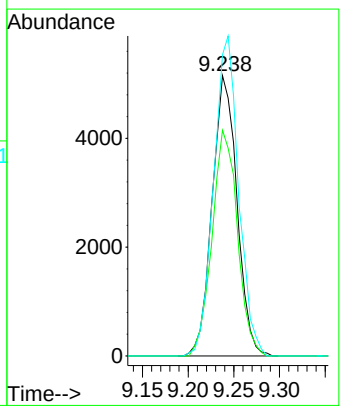


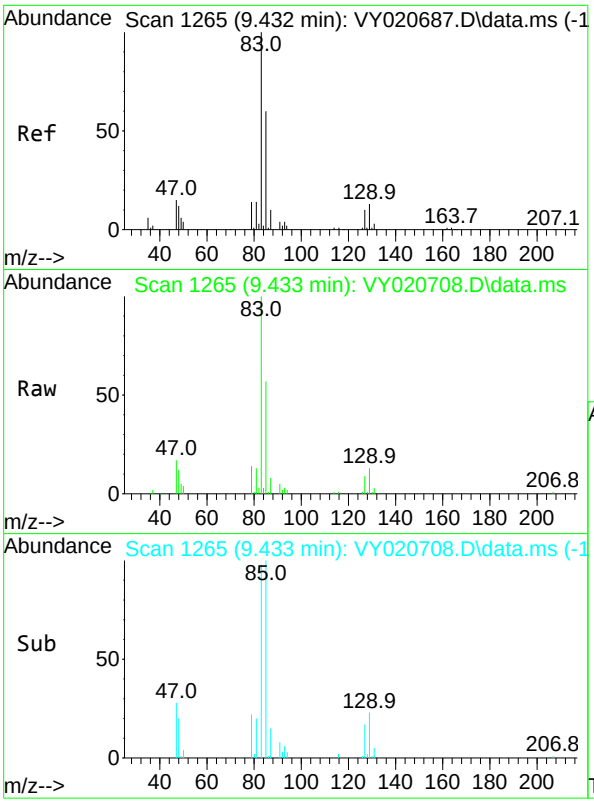




#46
Dibromomethane
Concen: 18.988 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 93 Resp: 9719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.2 | 67.8 | 101.8 |
| 174 | 114.7 | 89.4 | 134.0 |



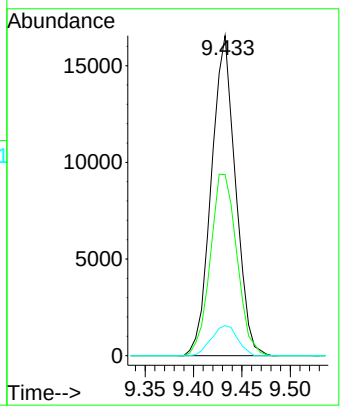


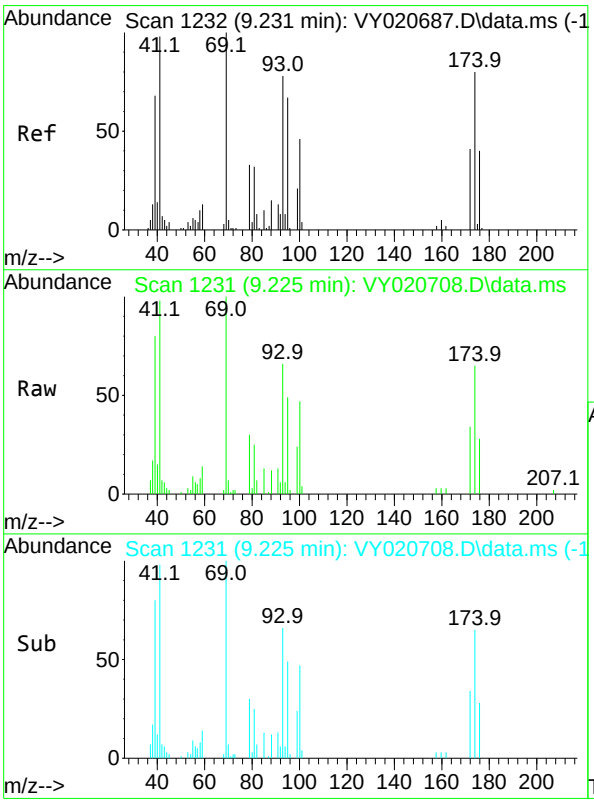

#47
Bromodichloromethane
Concen: 19.803 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 28737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 56.6 | 47.6 | 71.4 |
| 127 | 9.4 | 7.9 | 11.9 |

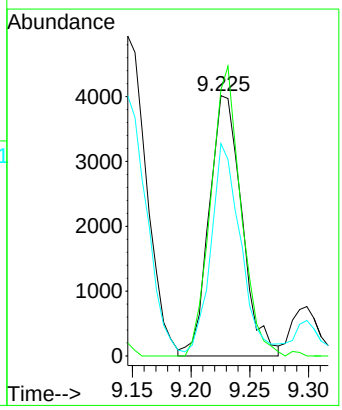


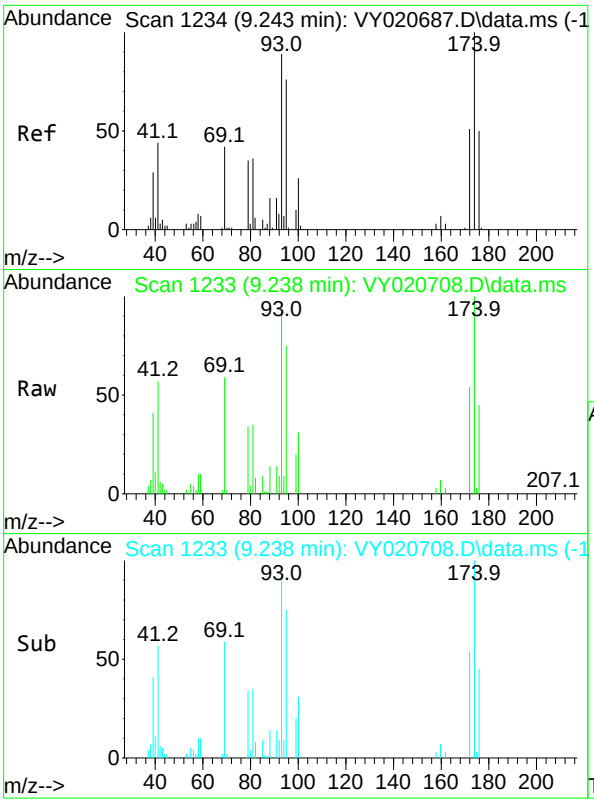




#48
Methyl methacrylate
Concen: 18.879 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 41 Resp: 7787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 101.9 | 83.1 | 124.7 |
| 39 | 72.1 | 57.3 | 85.9 |



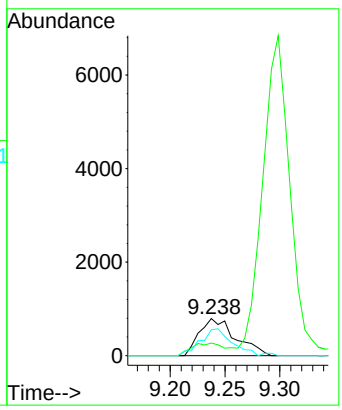


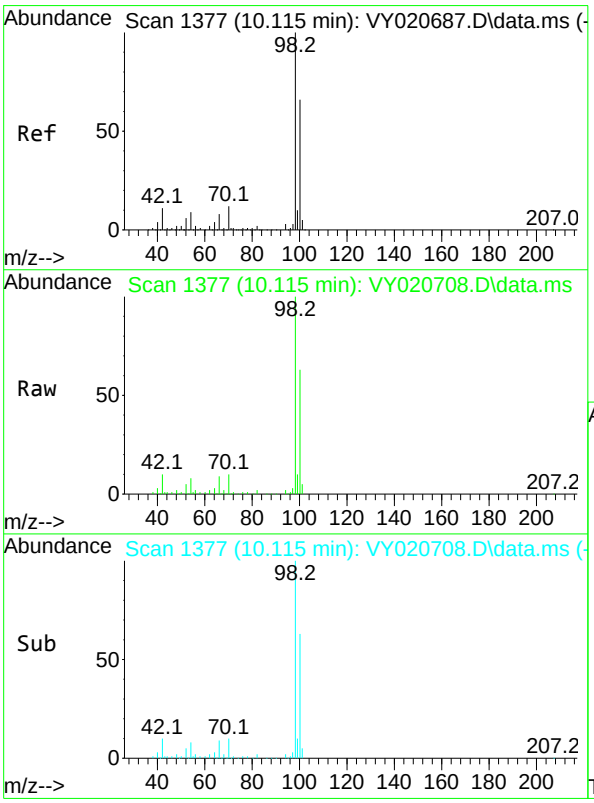

#49
1,4-Dioxane
Concen: 374.309 ug/l
RT: 9.238 min Scan# 1
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 88 Resp: 1825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 28.3 | 22.1 | 33.1 |
| 58 | 64.8 | 46.7 | 70.1 |

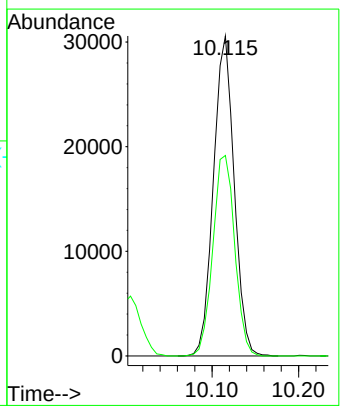


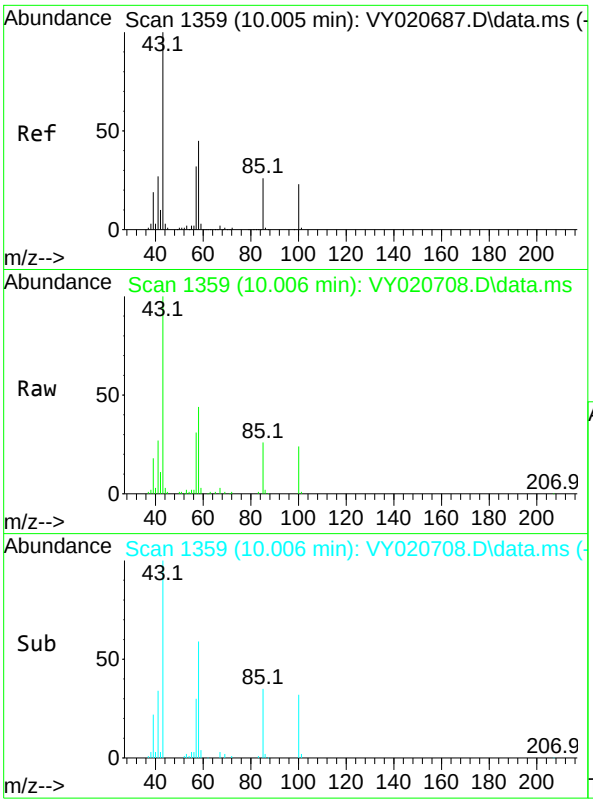




#50
Toluene-d8
Concen: 14.644 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 98 Resp: 50794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.1 | 52.2 | 78.4 |



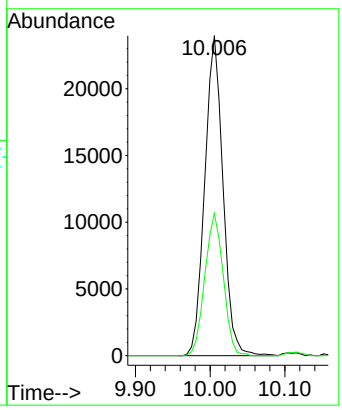


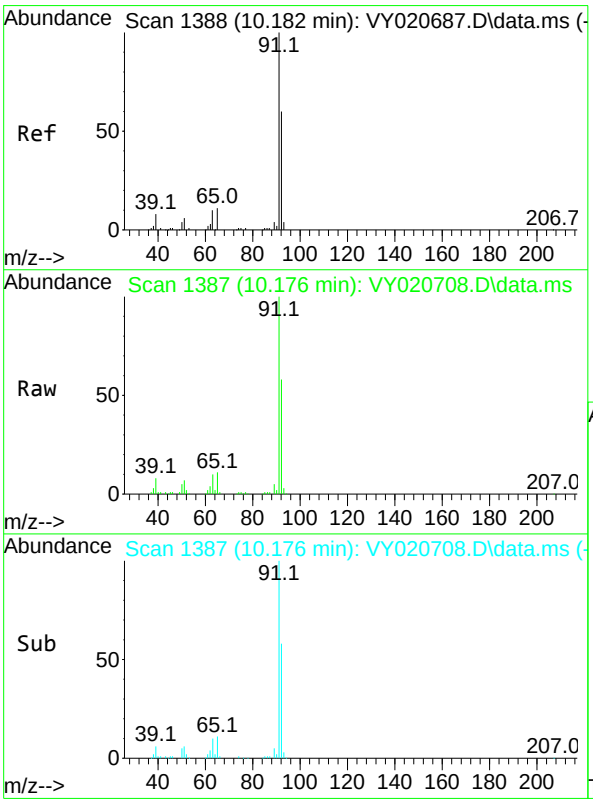

#51
4-Methyl-2-Pentanone
Concen: 95.218 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 40592

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.8 | 35.1 | 52.7 |

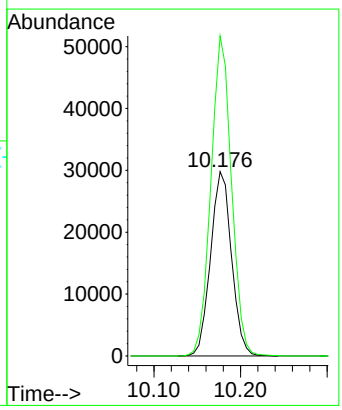


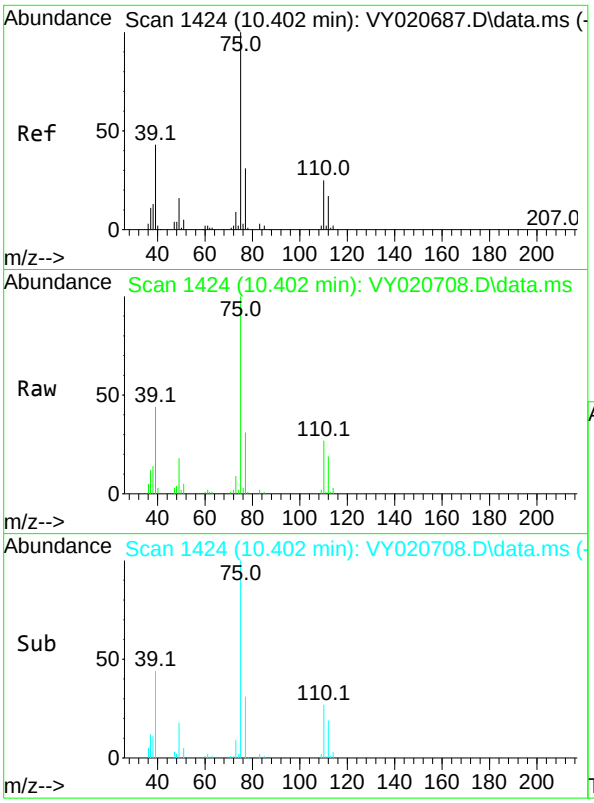




#52
Toluene
Concen: 19.986 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 92 Resp: 50060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.5 | 137.7 | 206.5 |



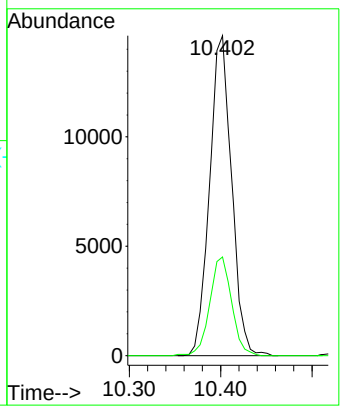


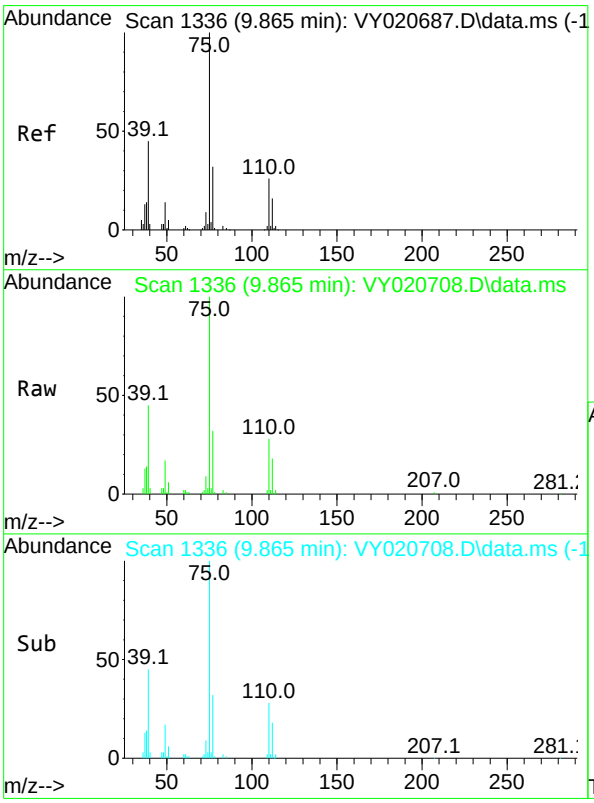

#53
t-1,3-Dichloropropene
Concen: 19.166 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 24428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.1 | 37.7 |

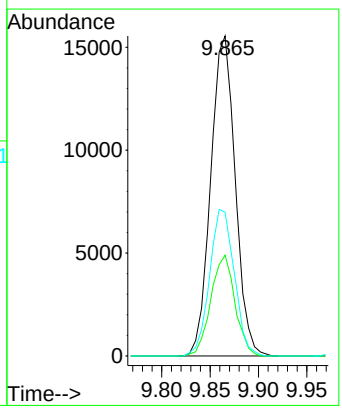


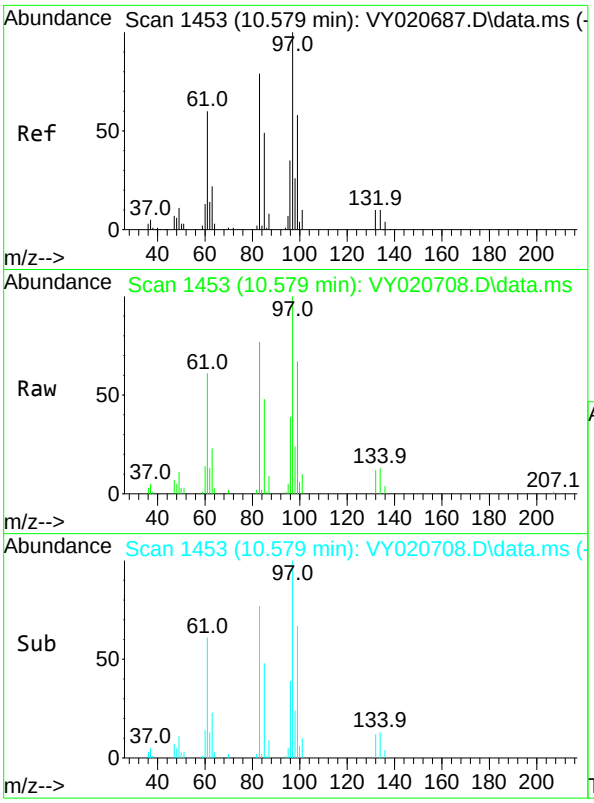




#54
cis-1,3-Dichloropropene
Concen: 19.625 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 75 Resp: 27417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 25.6 | 38.4 |
| 39 | 45.0 | 36.2 | 54.2 |



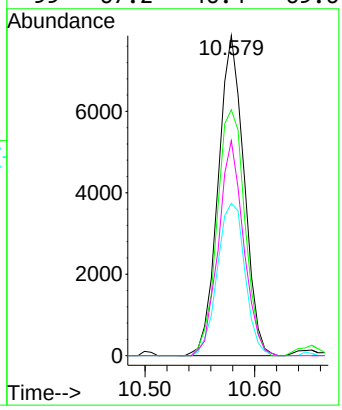


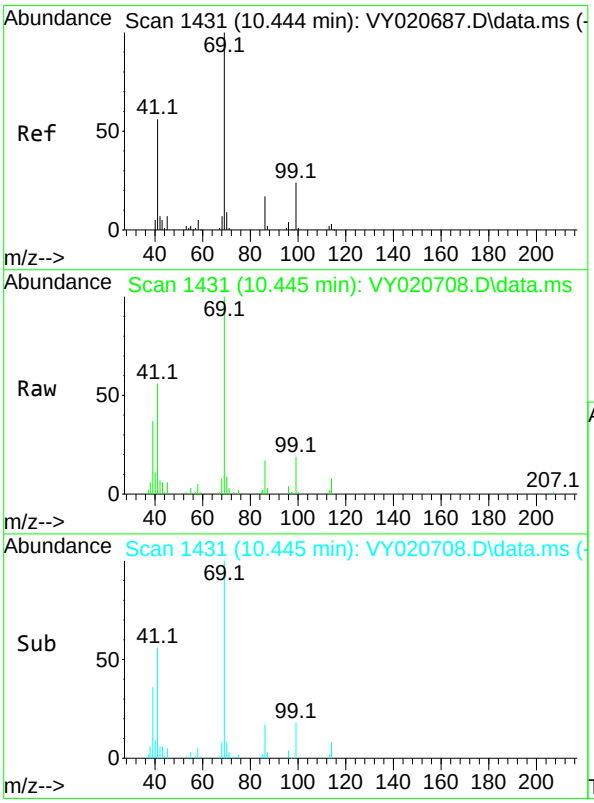

#55
1,1,2-Trichloroethane
Concen: 19.722 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 97 Resp: 12886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 76.8 | 63.1 | 94.7 |
| 85 | 47.6 | 39.5 | 59.3 |
| 99 | 67.2 | 46.4 | 69.6 |

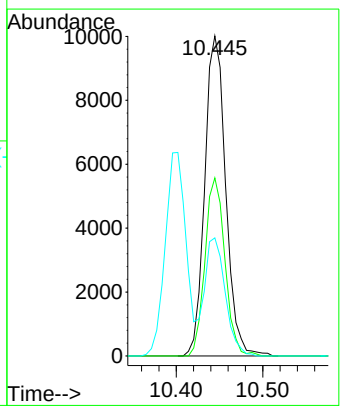


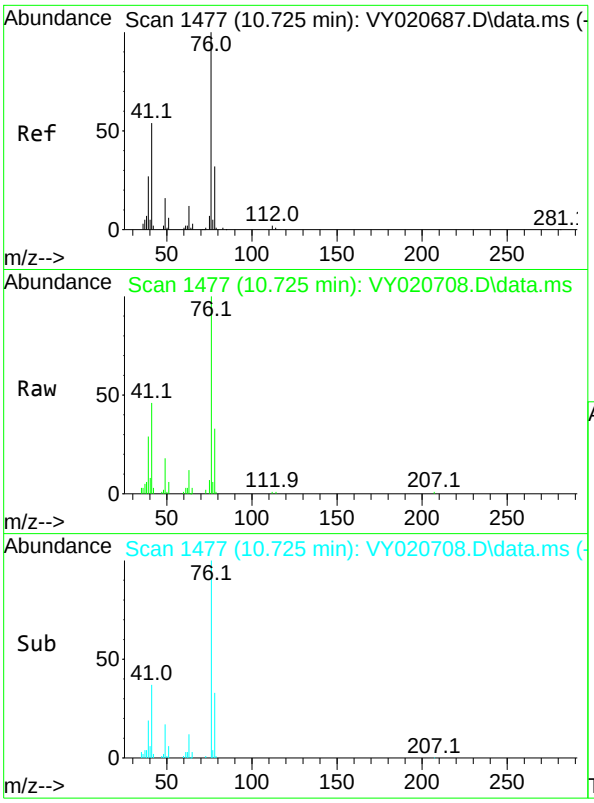




#56
Ethyl methacrylate
Concen: 19.607 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 69 Resp: 16830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 53.0 | 43.8 | 65.6 |
| 39 | 37.5 | 32.0 | 48.0 |



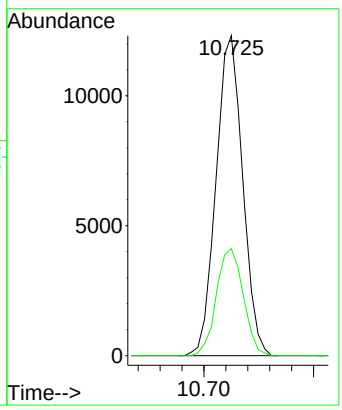


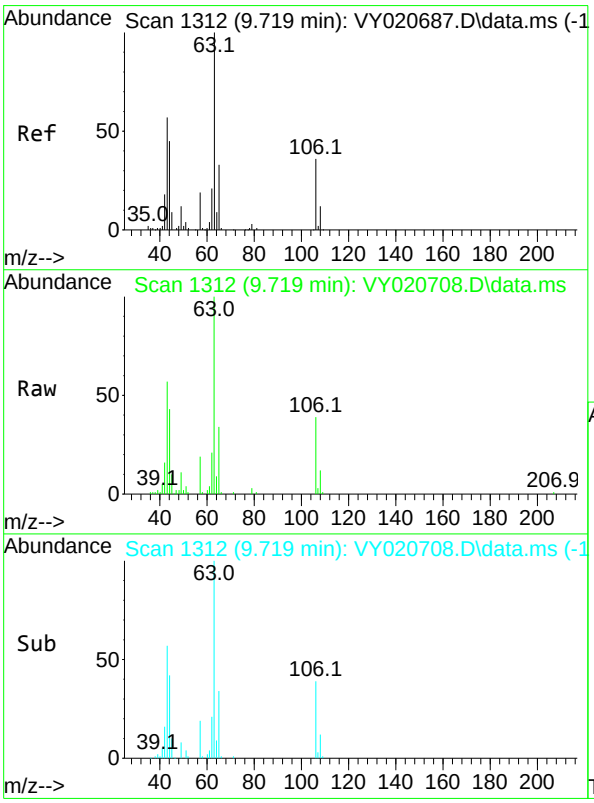

#57
1,3-Dichloropropane
Concen: 19.558 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 20740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.7 | 25.0 | 37.6 |

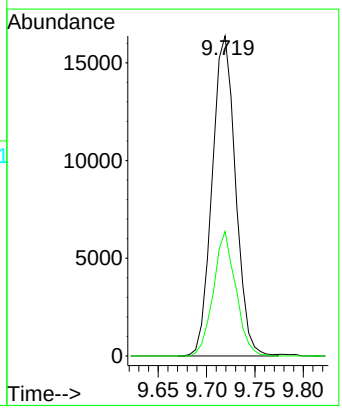


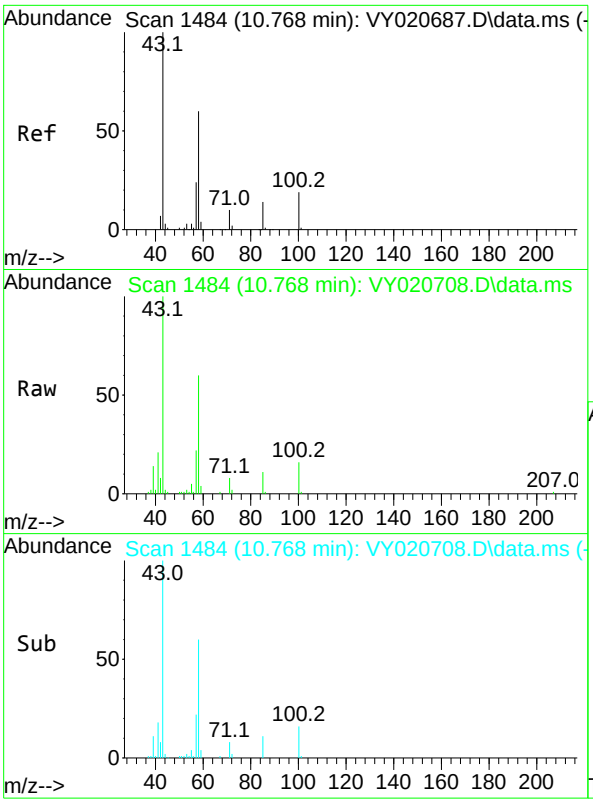




#58
2-Chloroethyl Vinyl ether
Concen: 91.985 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 63 Resp: 27533

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 37.2 | 29.1 | 43.7 |



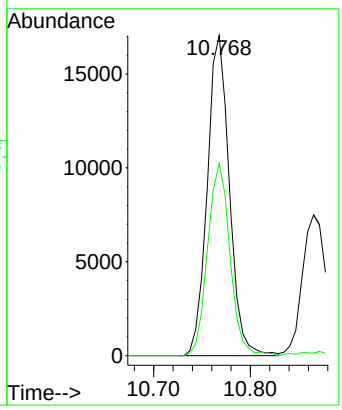


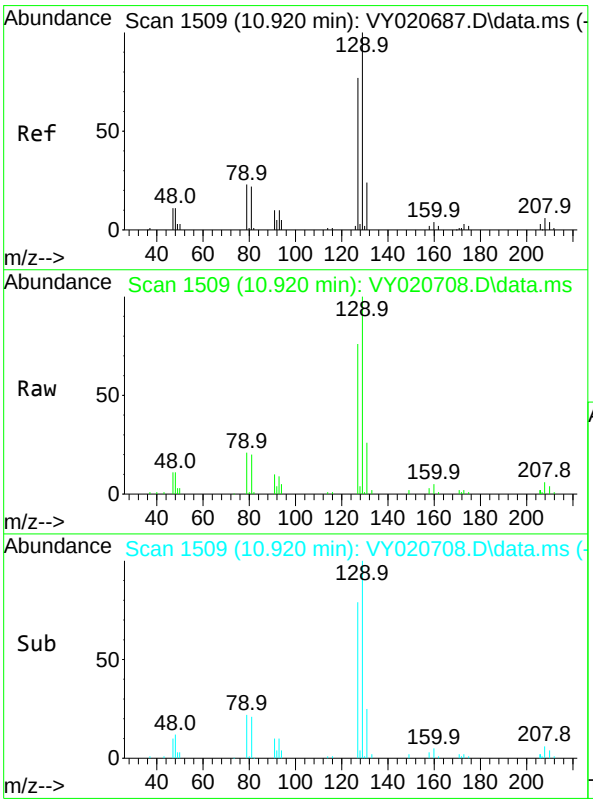

#59
2-Hexanone
Concen: 96.312 ug/l
RT: 10.768 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 27109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.5 | 30.1 | 90.5 |

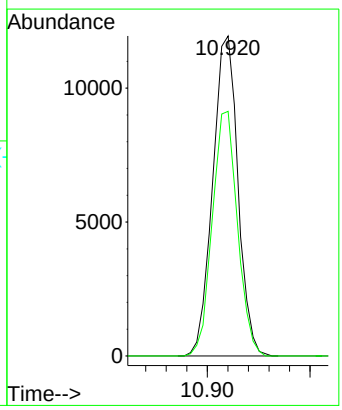


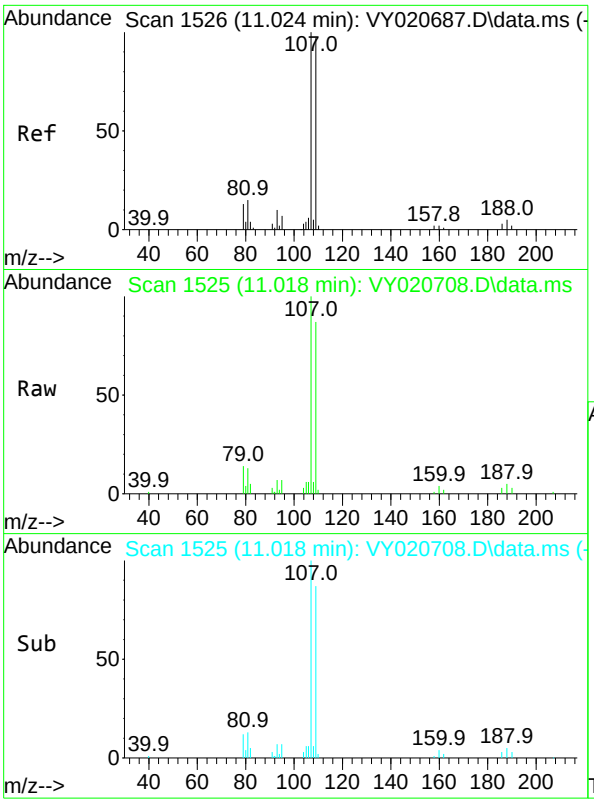




#60
Dibromochloromethane
Concen: 19.279 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:129 Resp: 20354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.2 | 38.5 | 115.5 |



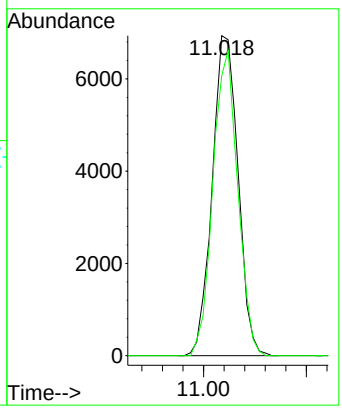


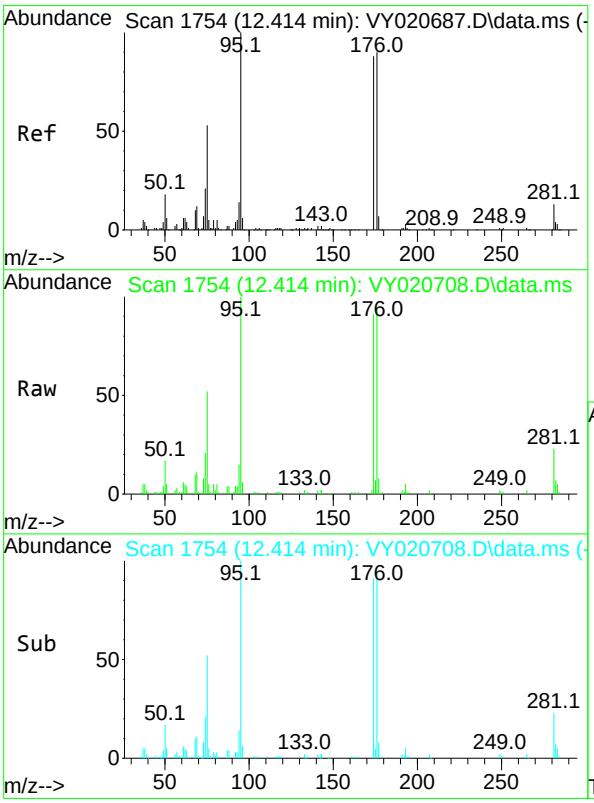

#61
1,2-Dibromoethane
Concen: 19.678 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:107 Resp: 12098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.7 | 75.5 | 113.3 |

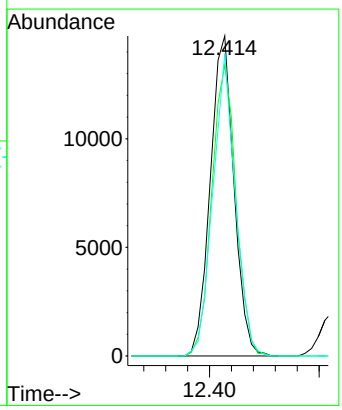


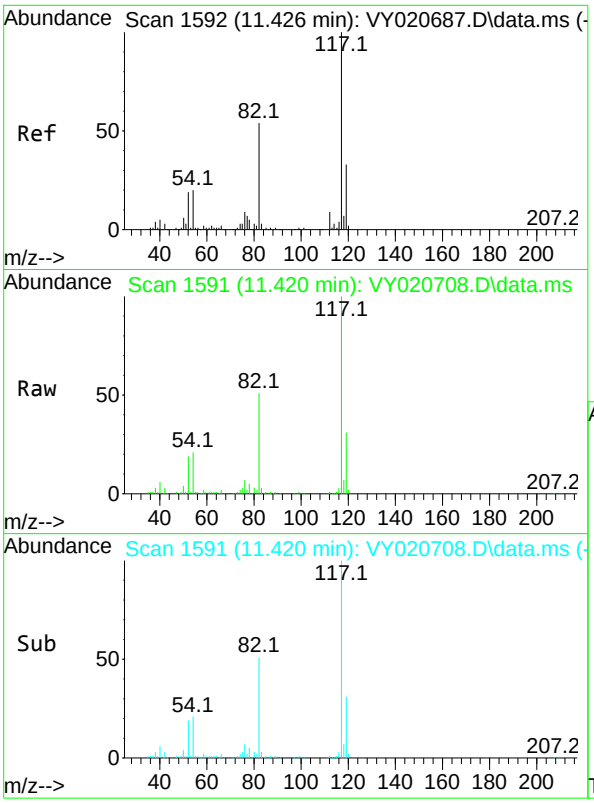




#62
4-Bromofluorobenzene
Concen: 17.414 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 95 Resp: 22093

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 93.2 | 0.0 | 179.2 |
| 176 | 89.6 | 0.0 | 179.8 |



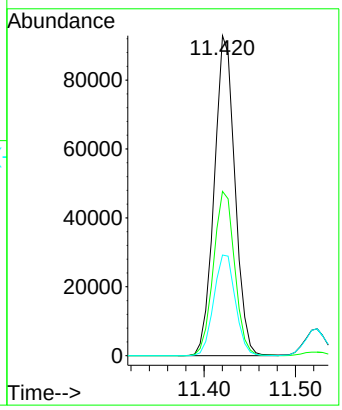


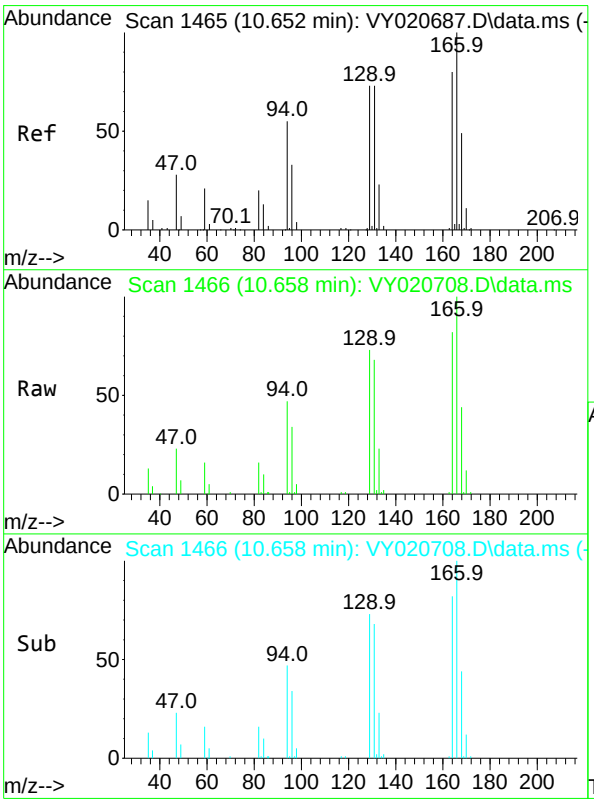

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:117 Resp: 146011

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.4 | 43.4 | 65.2 |
| 119 | 31.5 | 26.6 | 39.8 |

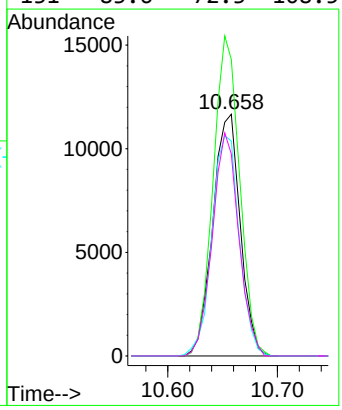


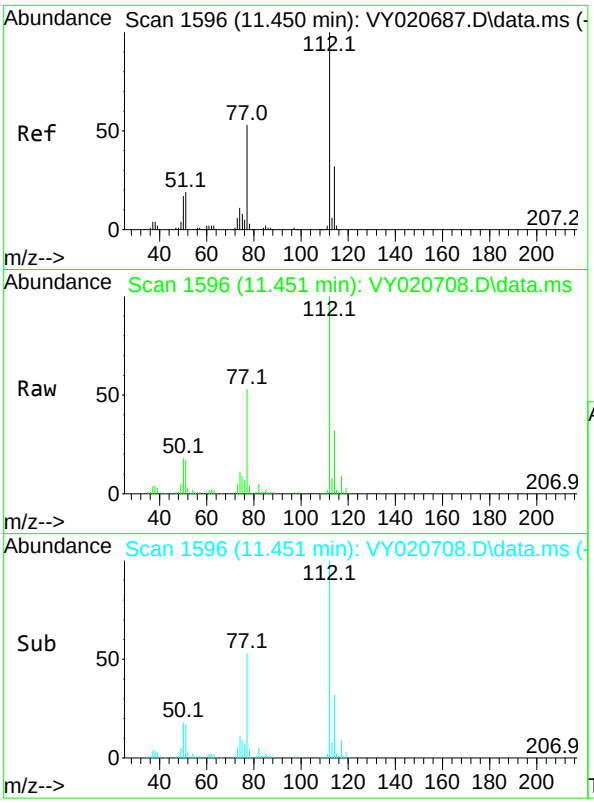




#64
Tetrachloroethene
Concen: 20.357 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:164 Resp: 20307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.6 | 99.6 | 149.4 |
| 129 | 89.0 | 73.0 | 109.4 |
| 131 | 83.6 | 72.3 | 108.5 |



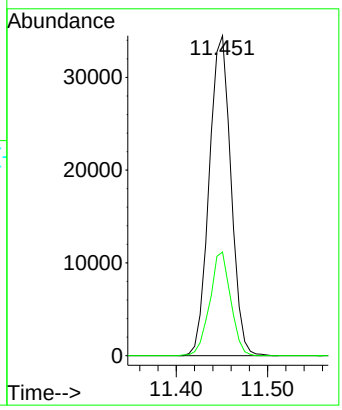


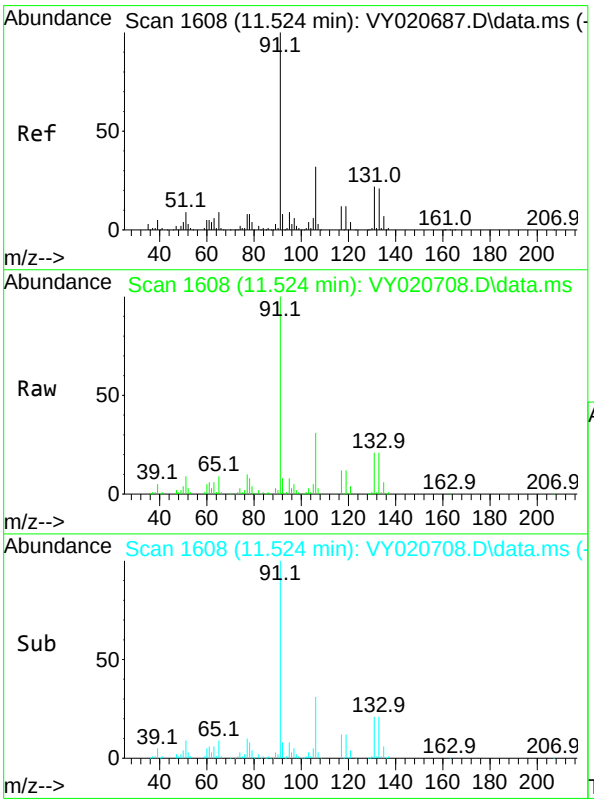

#65
Chlorobenzene
Concen: 19.935 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:112 Resp: 56993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 25.4 | 38.0 |

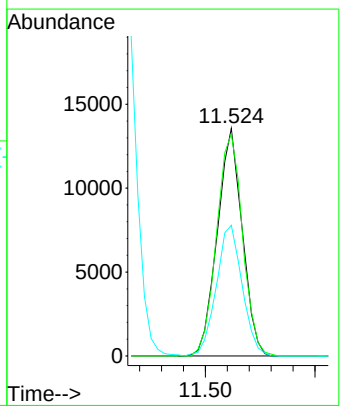


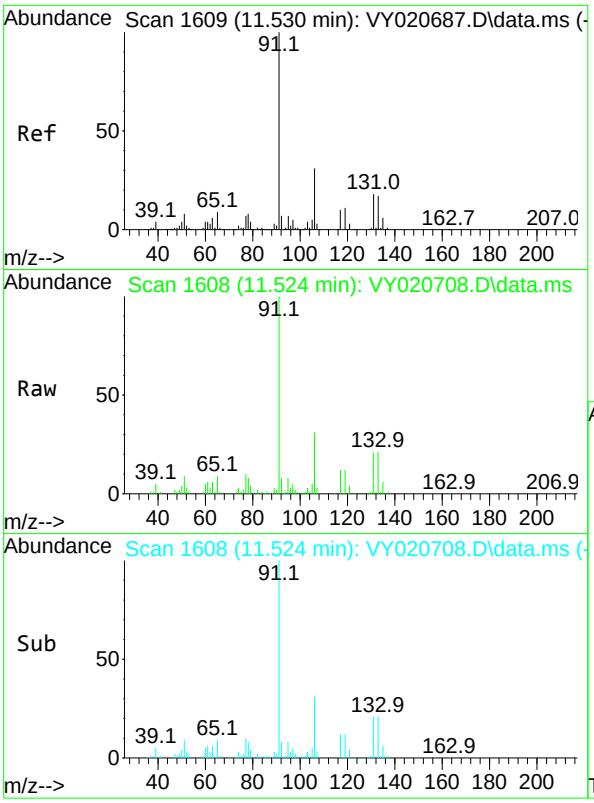




#66
1,1,1,2-Tetrachloroethane
Concen: 19.338 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:131 Resp: 21420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 101.4 | 48.6 | 145.9 |
| 119 | 59.5 | 28.4 | 85.3 |



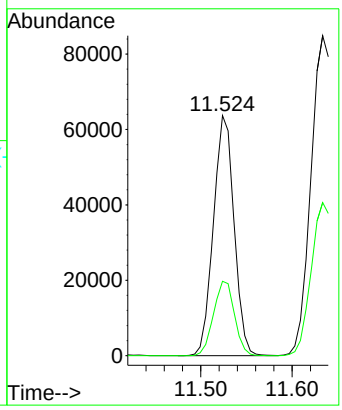


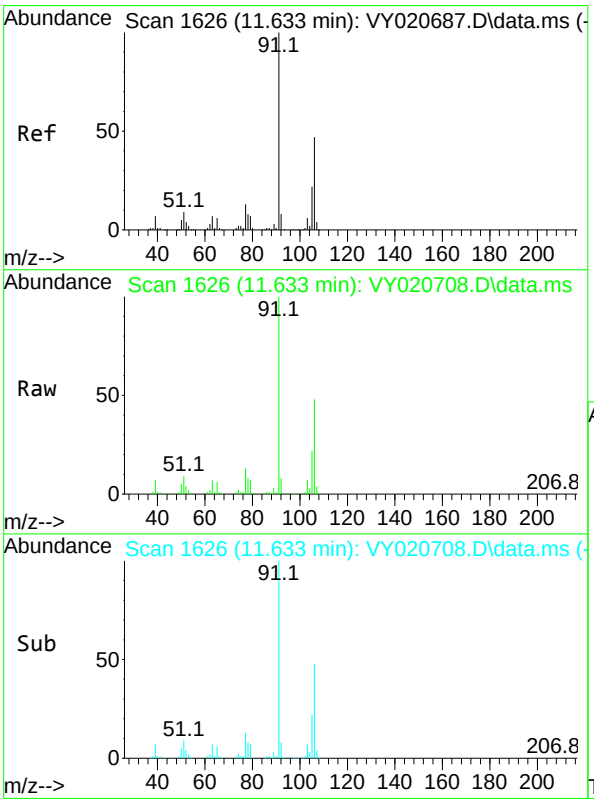

#67
Ethyl Benzene
Concen: 20.042 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 100148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.0 | 24.5 | 36.7 |

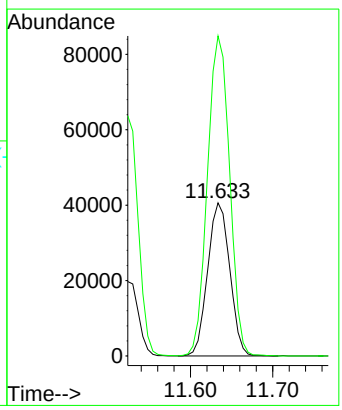


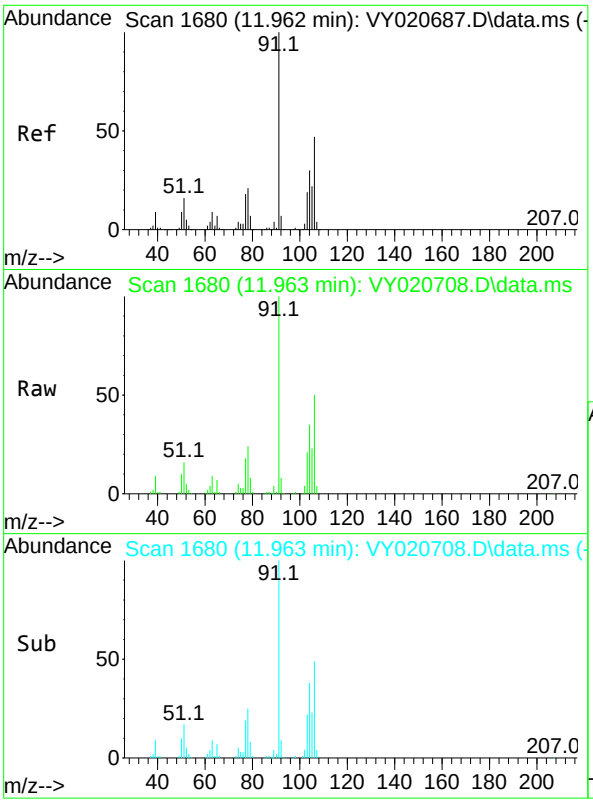




#68
m/p-Xylenes
Concen: 39.796 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:106 Resp: 75856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 209.8 | 166.6 | 250.0 |



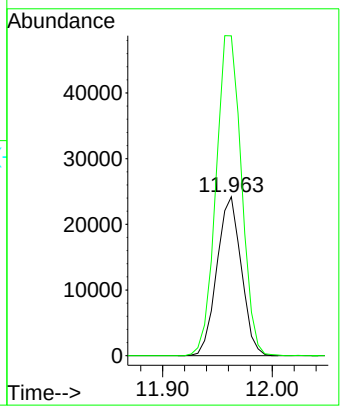


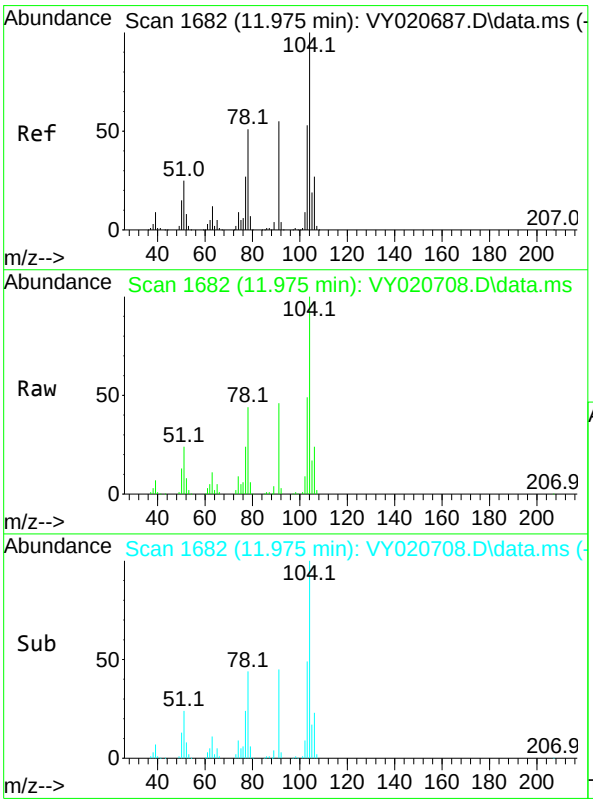

#69
o-Xylene
Concen: 20.482 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:106 Resp: 37301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 210.4 | 108.6 | 325.8 |

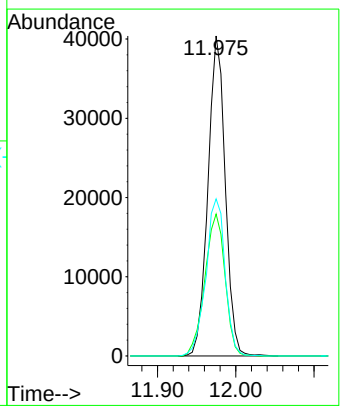


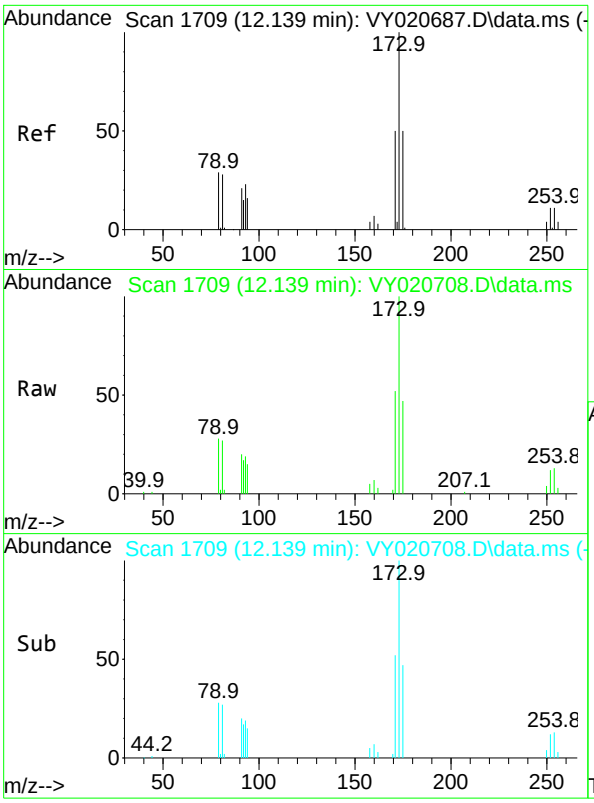




#70
Styrene
Concen: 20.262 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:104 Resp: 61946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.5 | 43.0 | 64.4 |
| 103 | 54.7 | 44.4 | 66.6 |



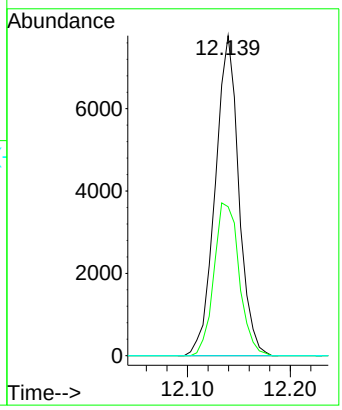


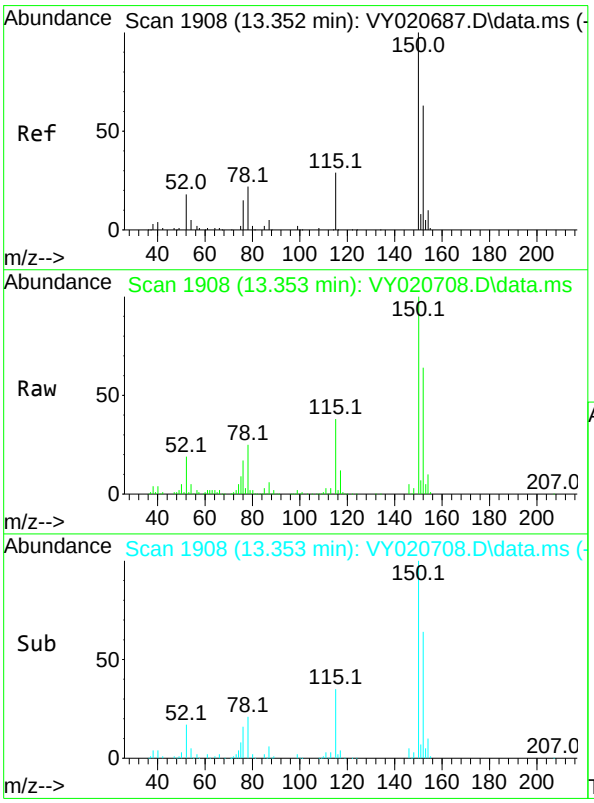

#71
Bromoform
Concen: 19.400 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:173 Resp: 12354

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.0 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

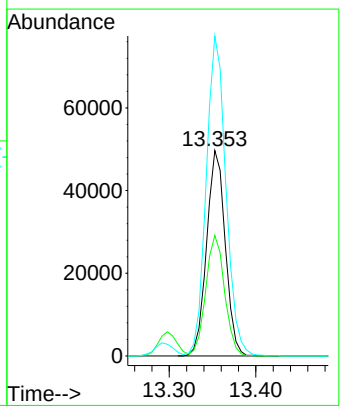


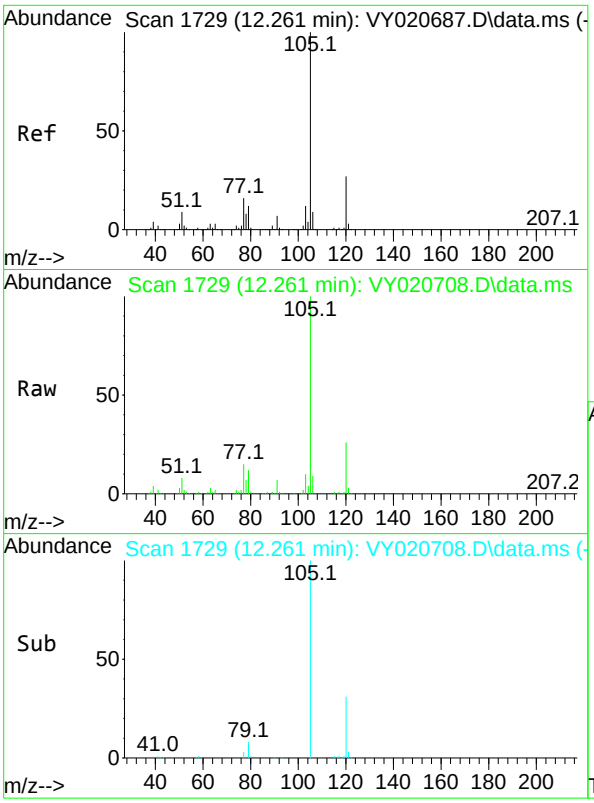




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:152 Resp: 74311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 59.2 | 30.3 | 90.9 |
| 150 | 164.5 | 0.0 | 349.0 |



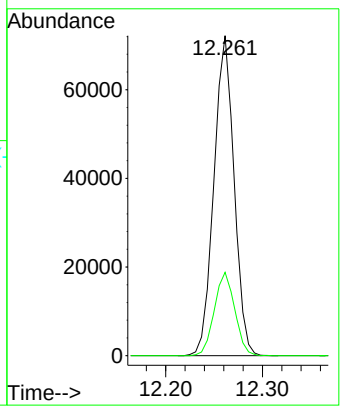


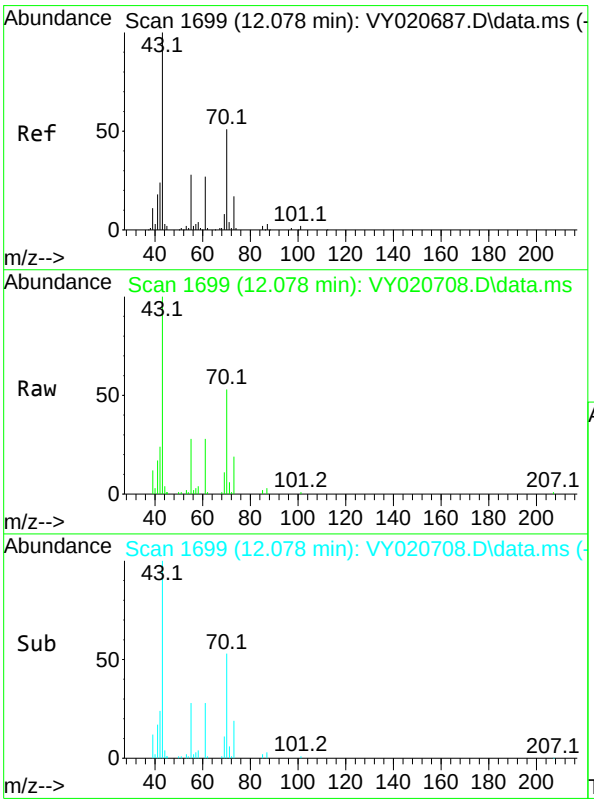

#73
Isopropylbenzene
Concen: 20.254 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 104274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.3 | 39.9 |

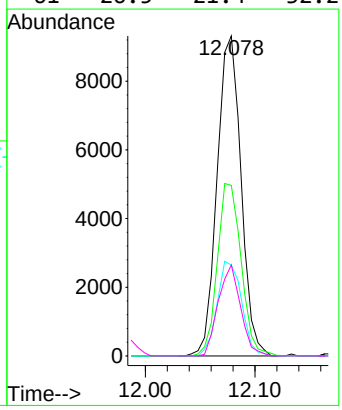


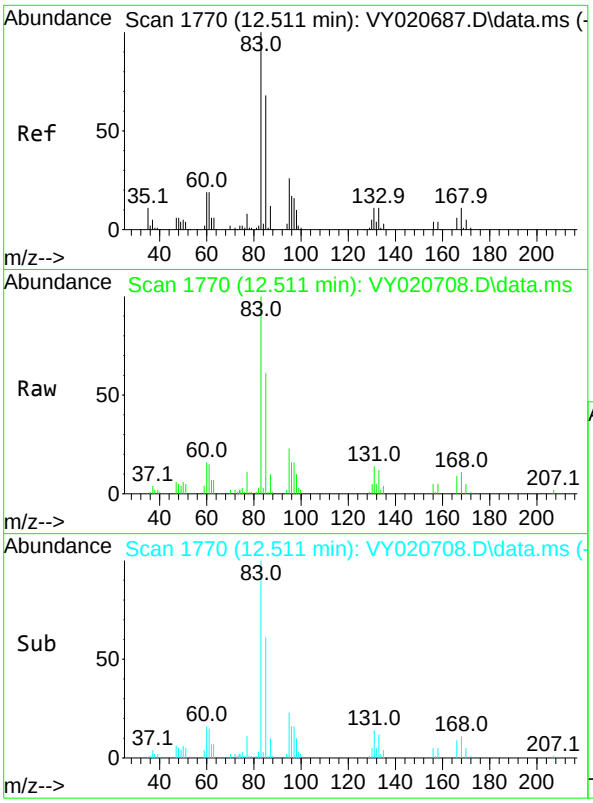




#74
N-amyl acetate
Concen: 19.346 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 43 Resp: 14154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 53.5 | 39.7 | 59.5 |
| 55 | 30.2 | 21.5 | 32.3 |
| 61 | 26.5 | 21.4 | 32.2 |



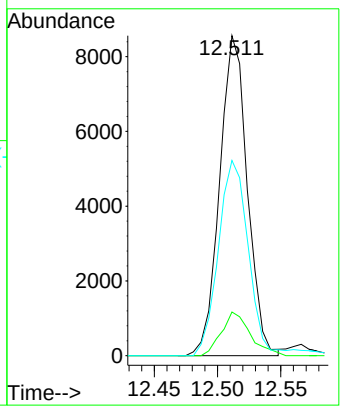


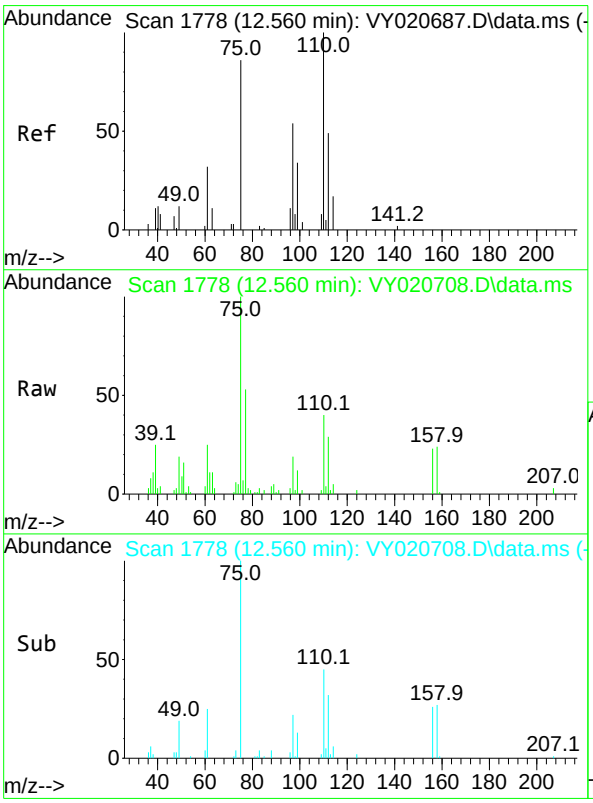

#75
1,1,2,2-Tetrachloroethane
Concen: 19.742 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 13030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.2 | 6.9 | 20.7 |
| 85 | 65.8 | 32.5 | 97.4 |

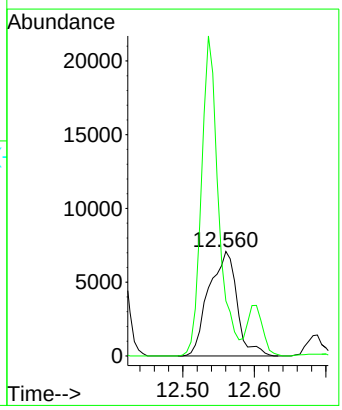


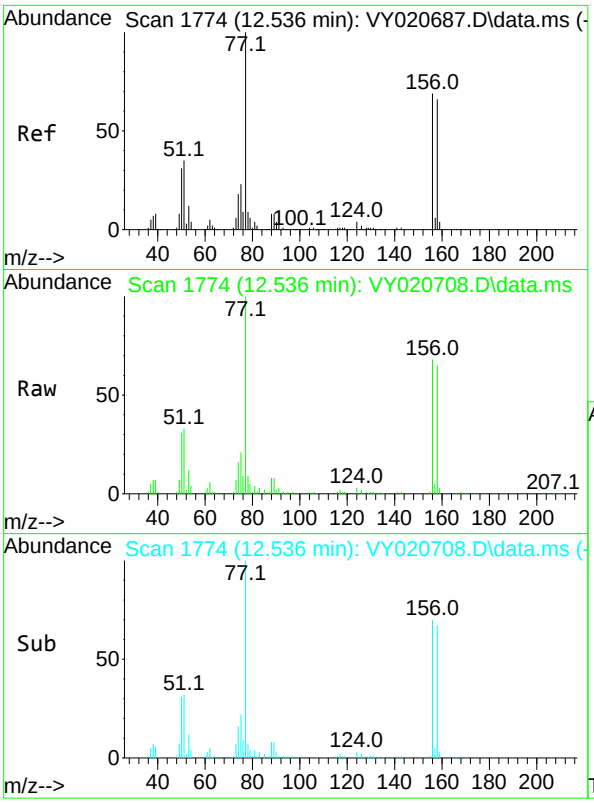




#76
1,2,3-Trichloropropane
Concen: 33.108 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 75 Resp: 19407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



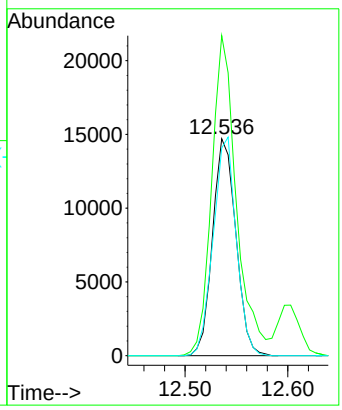


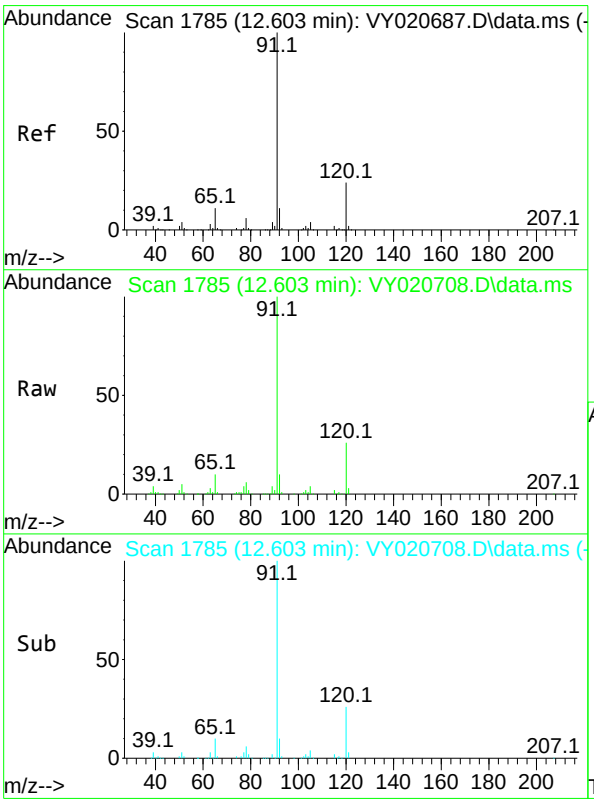

#77
Bromobenzene
Concen: 19.534 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:156 Resp: 23151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 155.8 | 78.3 | 235.0 |
| 158 | 99.5 | 48.3 | 144.9 |

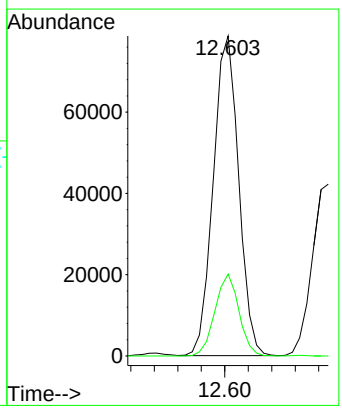


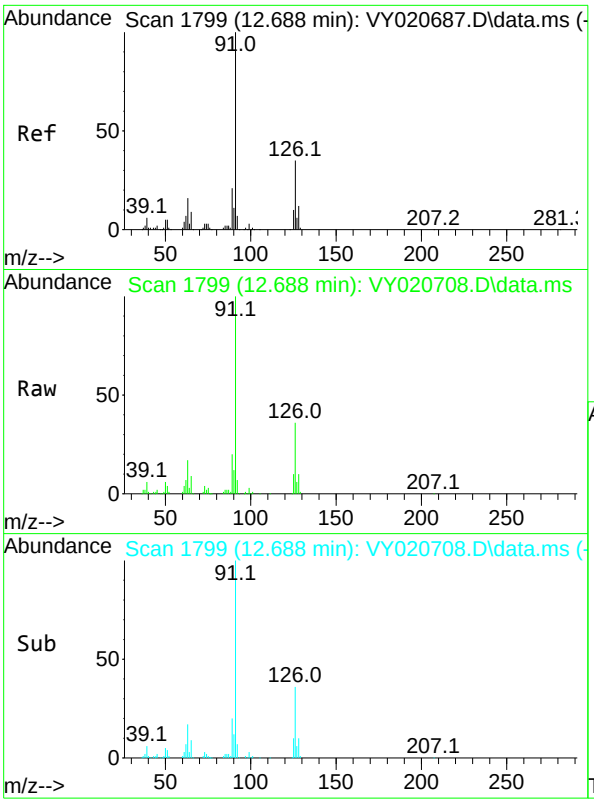




#78
n-propylbenzene
Concen: 20.458 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 91 Resp: 118053

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.1 | 12.3 | 36.8 |



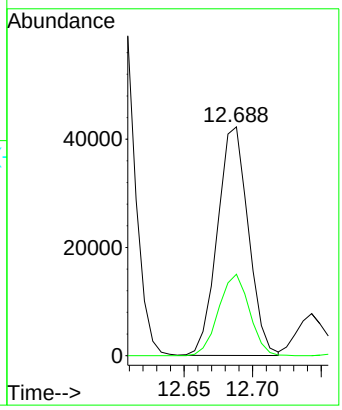


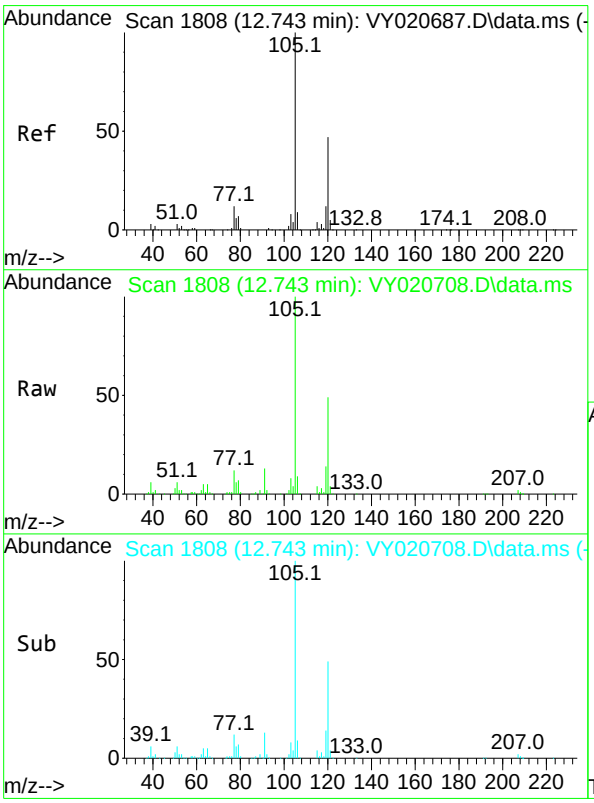

#79
2-Chlorotoluene
Concen: 20.135 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 66234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.4 | 17.8 | 53.3 |

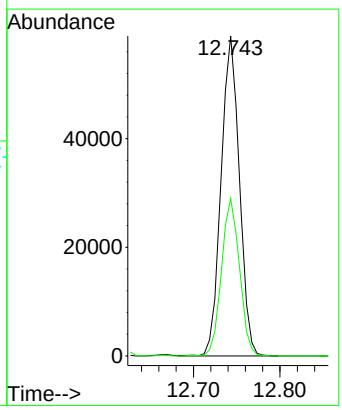


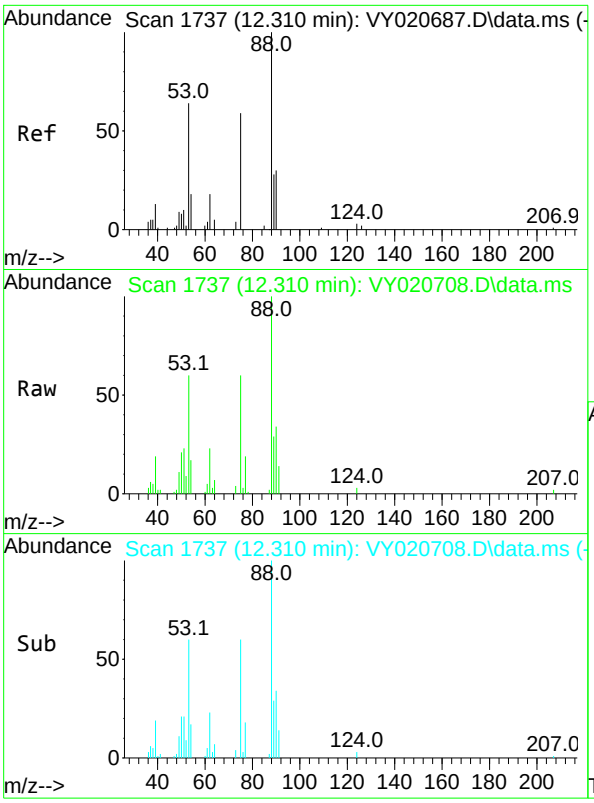




#80
1,3,5-Trimethylbenzene
Concen: 20.157 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:105 Resp: 86460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.4 | 23.9 | 71.7 |



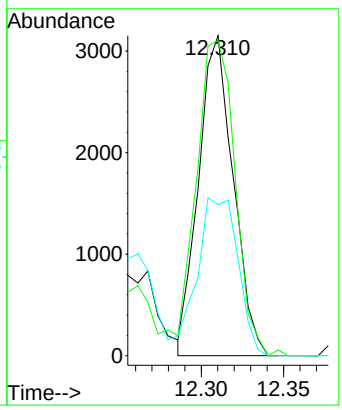


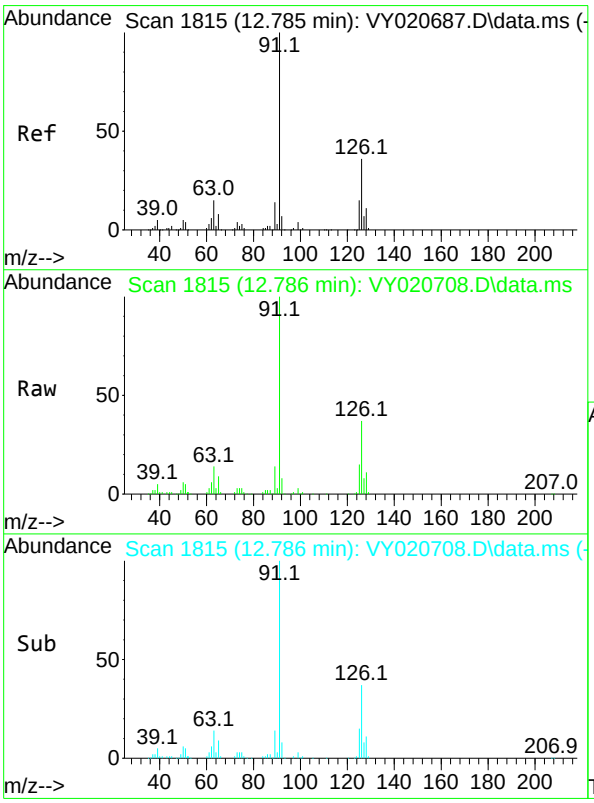

#81
trans-1,4-Dichloro-2-butene
Concen: 19.322 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 4620

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 112.4 | 83.1 | 124.7 |
| 89 | 58.5 | 40.6 | 61.0 |

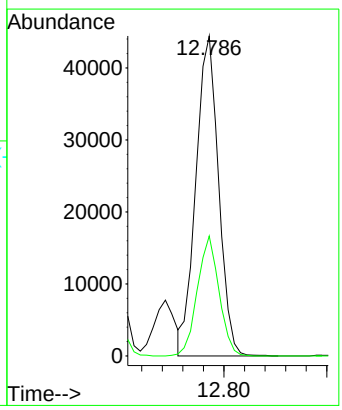


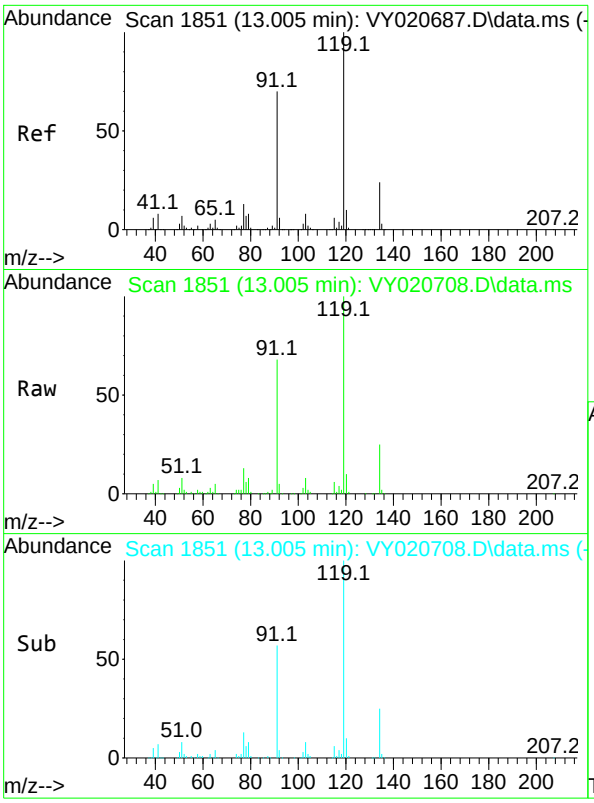




#82
4-Chlorotoluene
Concen: 20.057 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 91 Resp: 68187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.8 | 17.8 | 53.5 |



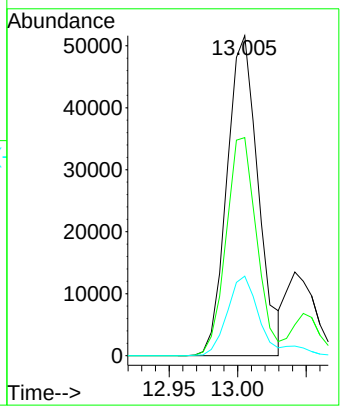


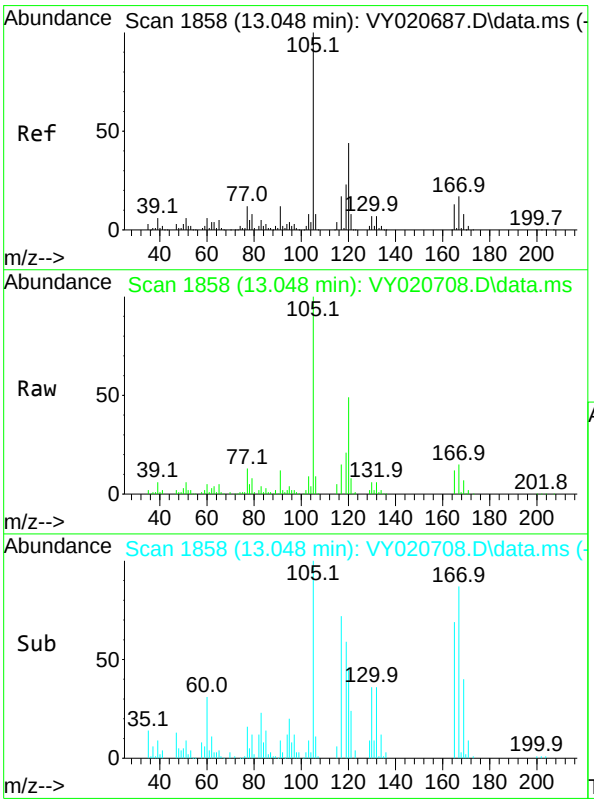

#83
tert-Butylbenzene
Concen: 20.410 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:119 Resp: 81757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.7 | 33.6 | 100.8 |
| 134 | 26.8 | 13.4 | 40.2 |

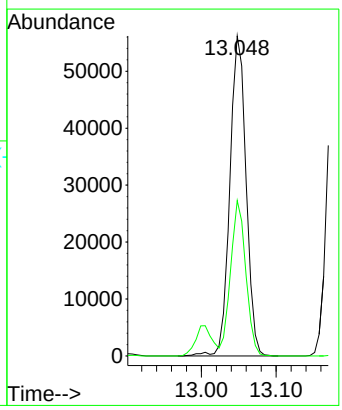


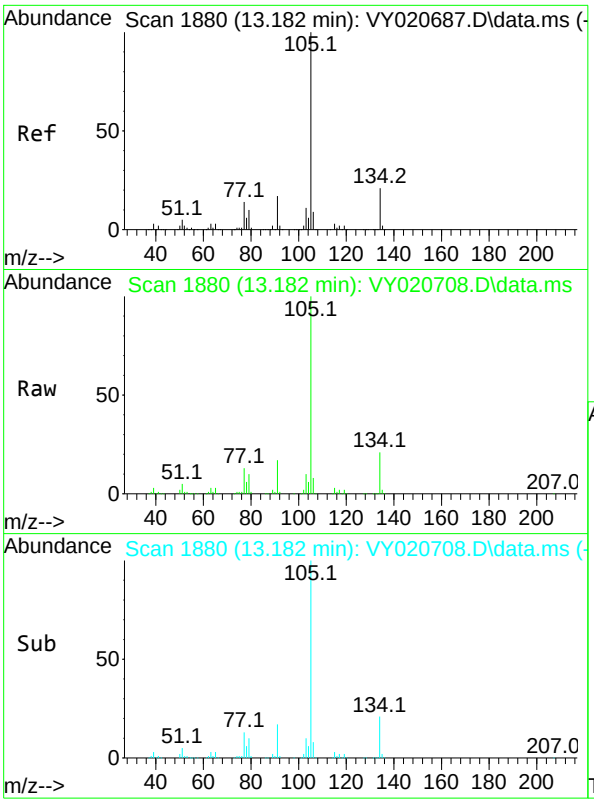




#84
1,2,4-Trimethylbenzene
Concen: 20.370 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:105 Resp: 85025

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.6 | 21.8 | 65.3 |



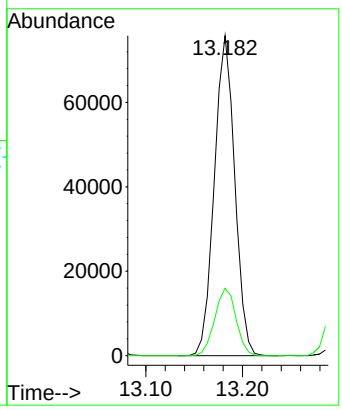


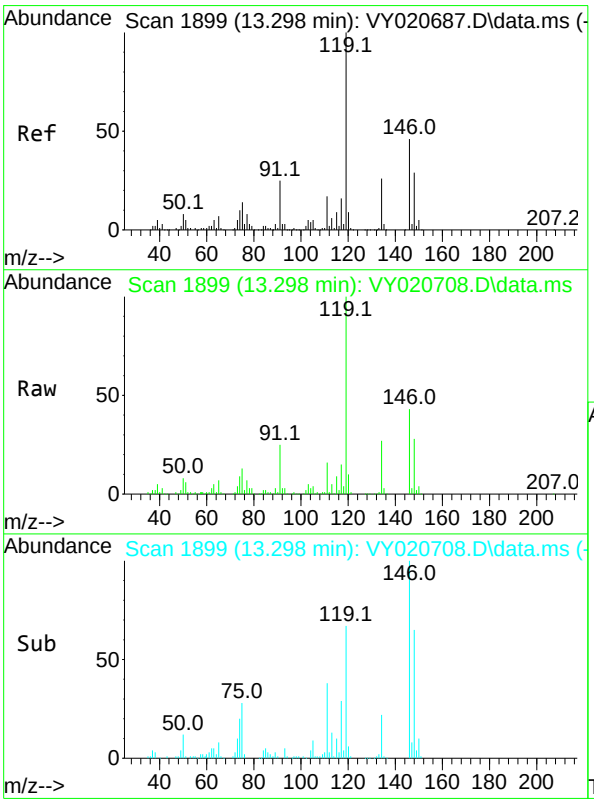

#85
sec-Butylbenzene
Concen: 20.536 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 110869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.9 | 10.7 | 32.1 |

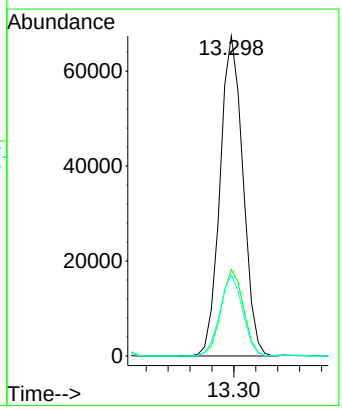


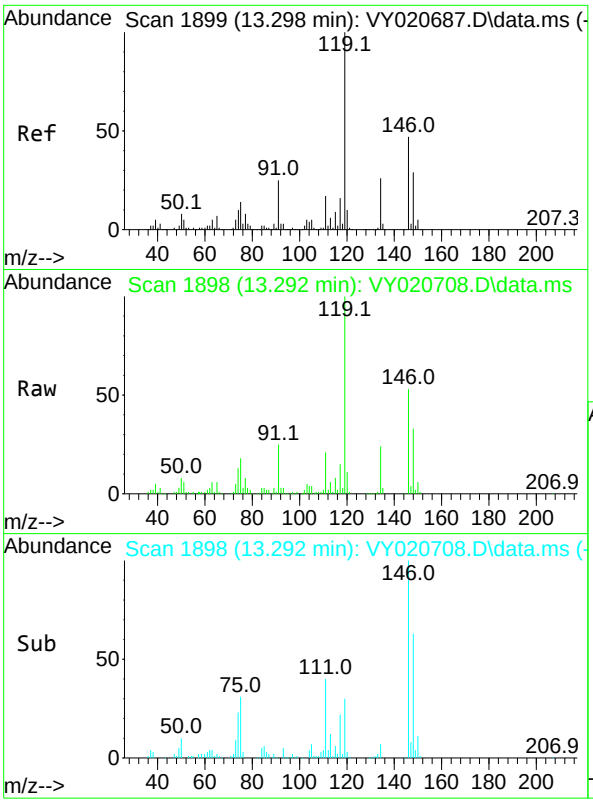




#86
p-Isopropyltoluene
Concen: 20.311 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:119 Resp: 97722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.4 | 40.2 |
| 91 | 25.2 | 12.9 | 38.6 |



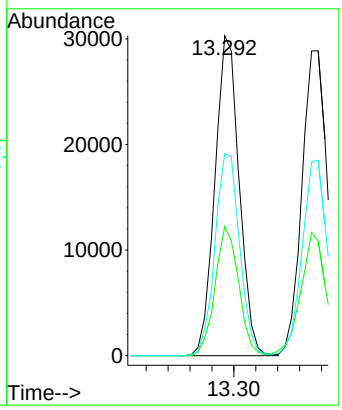


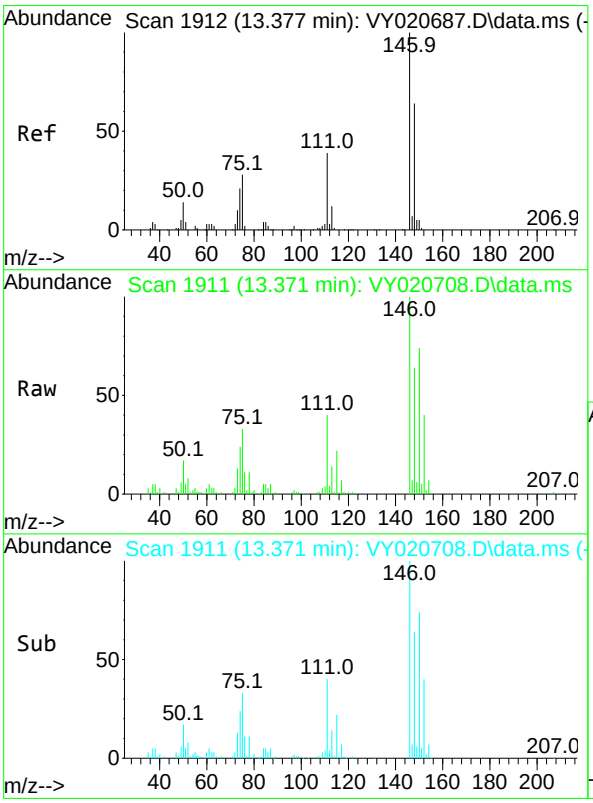

#87
1,3-Dichlorobenzene
Concen: 20.113 ug/l
RT: 13.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 46587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.3 | 57.8 |
| 148 | 64.3 | 31.1 | 93.5 |

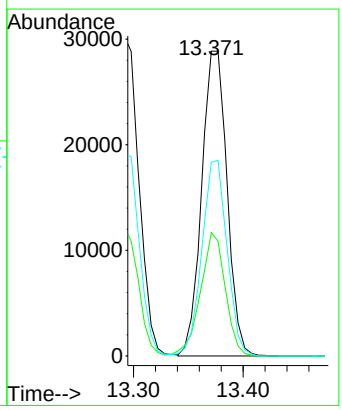


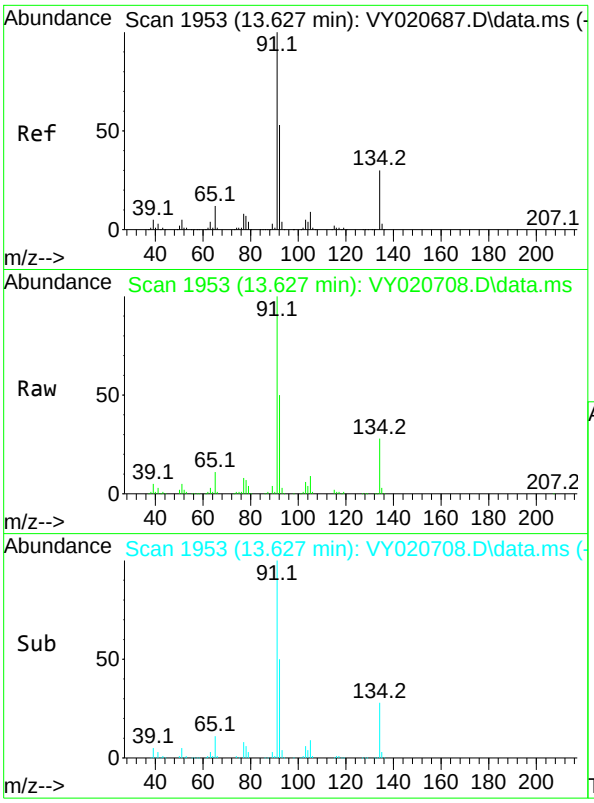




#88
1,4-Dichlorobenzene
Concen: 20.154 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:146 Resp: 46439

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.6 | 19.7 | 59.0 |
| 148 | 63.7 | 32.8 | 98.3 |



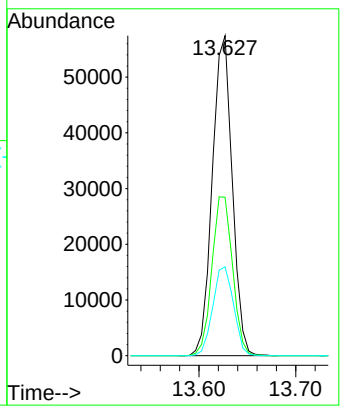


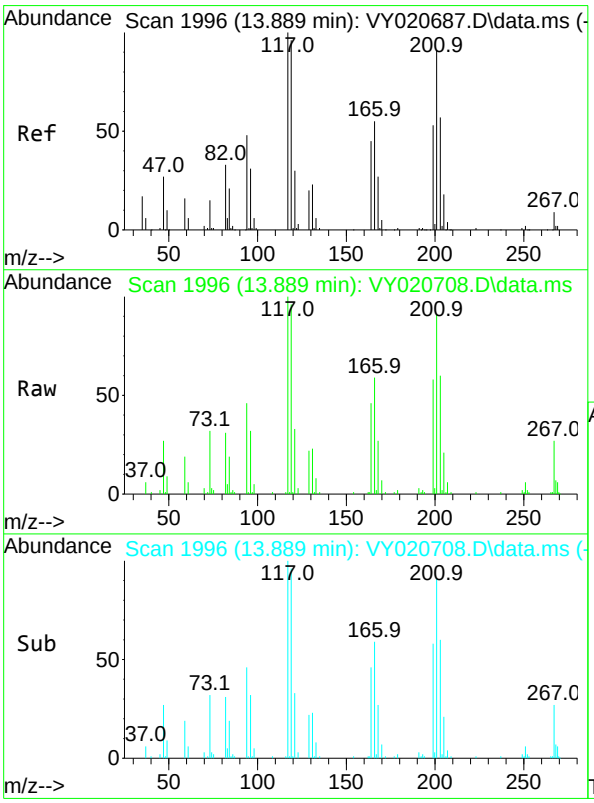

#89
n-Butylbenzene
Concen: 20.454 ug/l
RT: 13.627 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 82147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.6 | 26.1 | 78.2 |
| 134 | 28.9 | 14.8 | 44.4 |

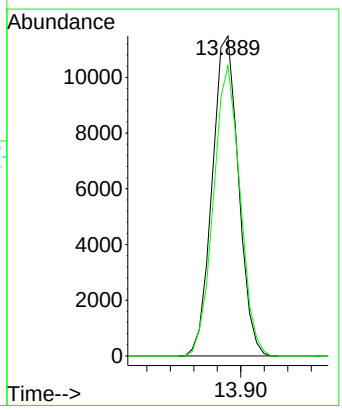


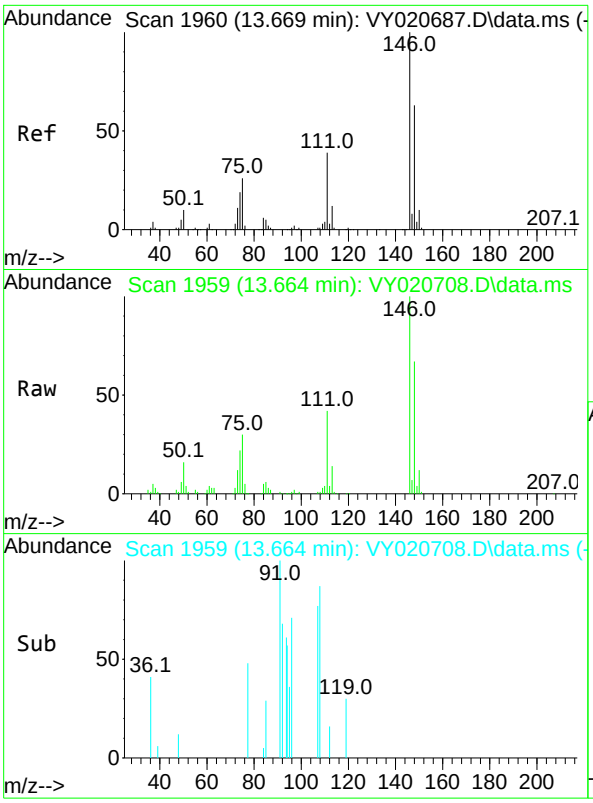




#90
Hexachloroethane
Concen: 19.517 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:117 Resp: 17856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 91.7 | 44.9 | 134.7 |



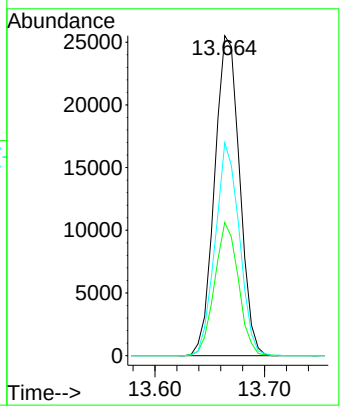


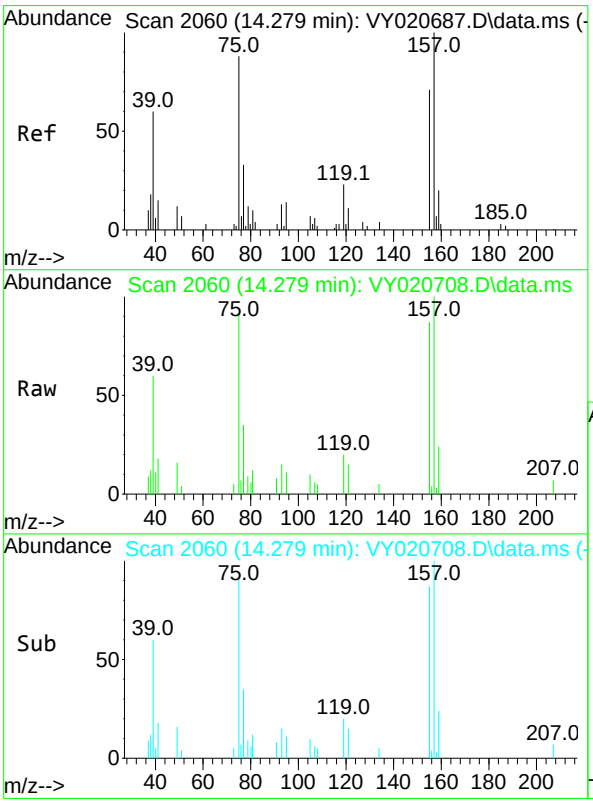

#91
1,2-Dichlorobenzene
Concen: 20.378 ug/l
RT: 13.664 min Scan# 1
Delta R.T. -0.005 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 40471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 20.3 | 60.8 |
| 148 | 64.1 | 31.9 | 95.5 |

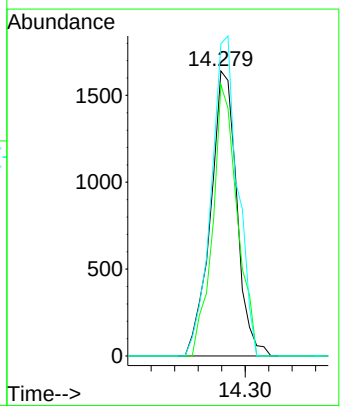


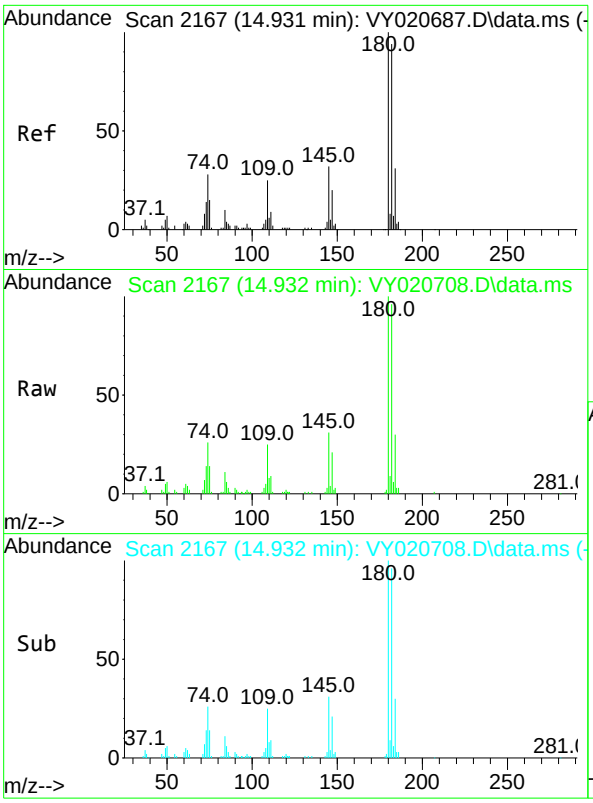




#92
1,2-Dibromo-3-Chloropropane
Concen: 19.905 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion: 75 Resp: 2548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.6 | 43.4 | 130.2 |
| 157 | 113.3 | 58.6 | 175.7 |



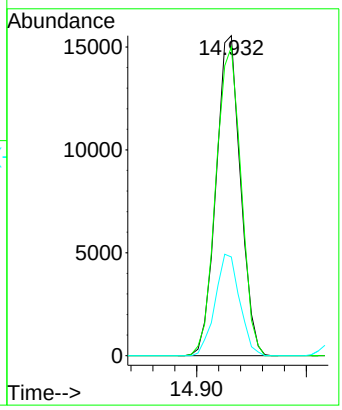


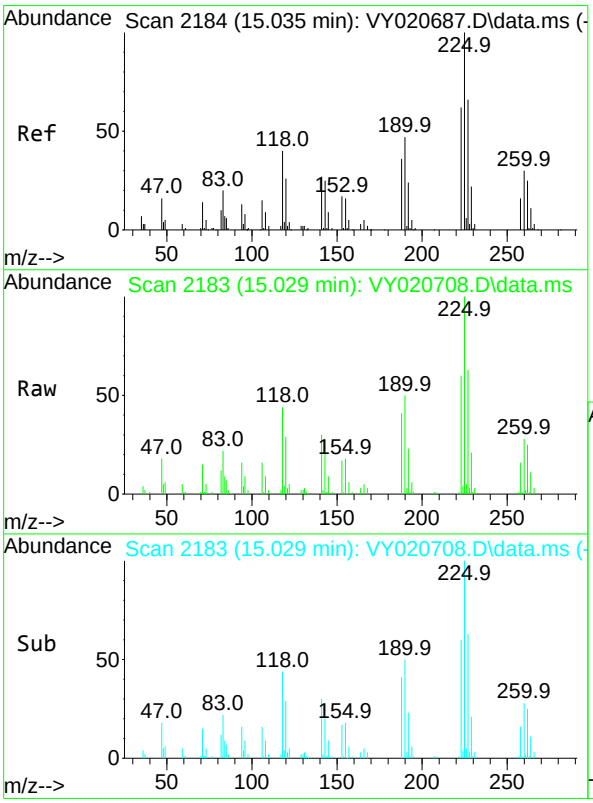

#93
1,2,4-Trichlorobenzene
Concen: 19.089 ug/l
RT: 14.932 min Scan# 21
Delta R.T. 0.001 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:180 Resp: 24098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 99.1 | 47.9 | 143.7 |
| 145 | 31.8 | 15.6 | 46.8 |

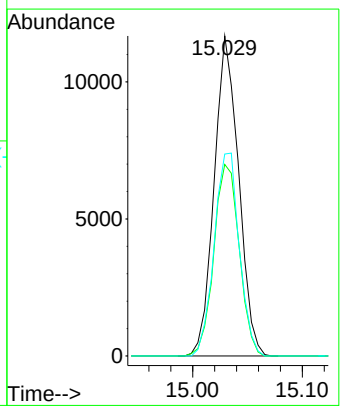


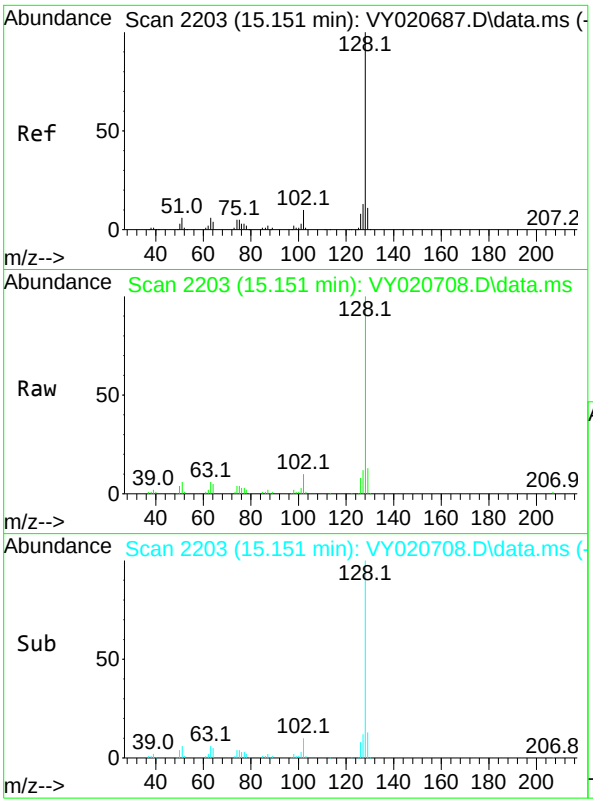




#94
Hexachlorobutadiene
Concen: 19.654 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:225 Resp: 18082

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.3 | 93.8 |
| 227 | 65.2 | 32.1 | 96.5 |



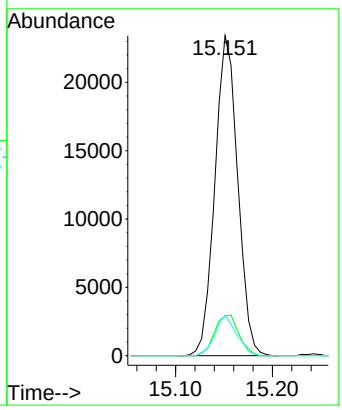


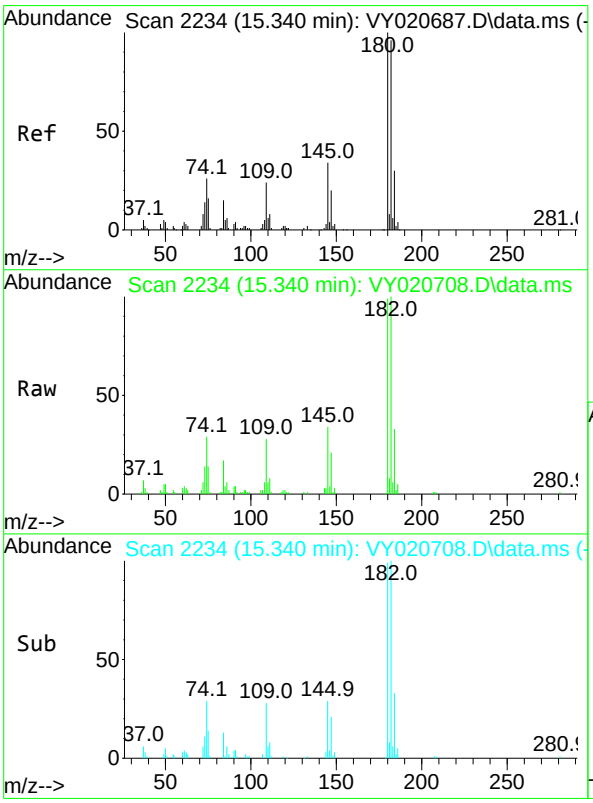

#95
Naphthalene
Concen: 18.968 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC020

Tgt Ion:128 Resp: 38351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.7 | 16.1 |
| 129 | 11.9 | 8.6 | 12.8 |

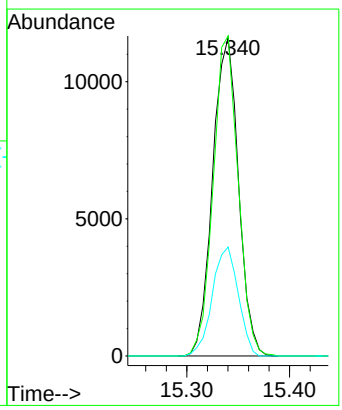



#96
1,2,3-Trichlorobenzene
Concen: 19.187 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020708.D
Acq: 26 Dec 2024 10:16

Tgt Ion:180 Resp: 20167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.2 | 47.4 | 142.2 |
| 145 | 34.5 | 16.7 | 50.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020709.D
Acq On : 26 Dec 2024 10:39
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Dec 26 16:06:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 95919 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 134605 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 116249 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 60351 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 49534 | 63.047 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 126.100% | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 42955 | 57.936 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 115.880% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 165135 | 55.802 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 111.600% | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 57393 | 58.248 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 116.500% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 38801 | 51.393 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 15038 | 53.407 | ug/l | 98 |
| 4) Vinyl Chloride | 2.214 | 62 | 18435 | 52.843 | ug/l | 99 |
| 5) Bromomethane | 2.611 | 94 | 13527 | 51.355 | ug/l | 93 |
| 6) Chloroethane | 2.745 | 64 | 10817 | 51.686 | ug/l | 98 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 68580 | 51.119 | ug/l | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 17063 | 53.449 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 37468 | 50.872 | ug/l | 99 |
| 10) Methyl Iodide | 4.019 | 142 | 43478 | 53.984 | ug/l | 97 |
| 11) Tert butyl alcohol | 4.879 | 59 | 13467 | 276.533 | ug/l # | 91 |
| 12) 1,1-Dichloroethene | 3.806 | 96 | 33758 | 51.495 | ug/l | 97 |
| 13) Acrolein | 3.665 | 56 | 3048 | 185.584 | ug/l | 98 |
| 14) Allyl chloride | 4.397 | 41 | 39674 | 51.717 | ug/l | 96 |
| 15) Acrylonitrile | 5.074 | 53 | 34070 | 276.260 | ug/l | 98 |
| 16) Acetone | 3.879 | 43 | 26066 | 261.525 | ug/l | 97 |
| 17) Carbon Disulfide | 4.123 | 76 | 86912 | 54.046 | ug/l | 100 |
| 18) Methyl Acetate | 4.397 | 43 | 15232 | 56.466 | ug/l | 97 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 97389 | 53.300 | ug/l | 96 |
| 20) Methylene Chloride | 4.635 | 84 | 32892 | 50.741 | ug/l | 93 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 37498 | 53.081 | ug/l | 95 |
| 22) Diisopropyl ether | 6.031 | 45 | 82233 | 52.731 | ug/l | 98 |
| 23) Vinyl Acetate | 5.976 | 43 | 257552 | 276.499 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 59422 | 50.822 | ug/l | 99 |
| 25) 2-Butanone | 6.903 | 43 | 38144 | 283.310 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 71954 | 50.280 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.903 | 96 | 44338 | 52.410 | ug/l | 97 |
| 28) Bromochloromethane | 7.256 | 49 | 18465 | 59.719 | ug/l | 96 |
| 29) Tetrahydrofuran | 7.274 | 42 | 23409 | 283.255 | ug/l | 96 |
| 30) Chloroform | 7.433 | 83 | 75540 | 50.224 | ug/l | 93 |
| 31) Cyclohexane | 7.713 | 56 | 48960 | 48.512 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 82365 | 51.087 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 50348 | 51.408 | ug/l | 99 |
| 37) Ethyl Acetate | 7.000 | 43 | 17946 | 55.607 | ug/l | 99 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 82604 | 51.220 | ug/l | 97 |
| 39) Methylcyclohexane | 9.116 | 83 | 65222 | 51.957 | ug/l | 99 |
| 40) Benzene | 8.091 | 78 | 146525 | 51.623 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020709.D
Acq On : 26 Dec 2024 10:39
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Dec 26 16:06:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 7518 | 46.116 ug/l # | 71 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 49005 | 53.844 ug/l | 100 |
| 43) Isopropyl Acetate | 8.207 | 43 | 38693 | 56.406 ug/l | 99 |
| 44) Trichloroethene | 8.872 | 130 | 43575 | 51.399 ug/l | 90 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 30307 | 52.749 ug/l | 95 |
| 46) Dibromomethane | 9.238 | 93 | 21455 | 53.969 ug/l | 97 |
| 47) Bromodichloromethane | 9.433 | 83 | 58285 | 51.714 ug/l | 93 |
| 48) Methyl methacrylate | 9.225 | 41 | 17575 | 54.863 ug/l | 99 |
| 49) 1,4-Dioxane | 9.238 | 88 | 4523 | 1194.426 ug/l | 98 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 93936 | 283.711 ug/l | 99 |
| 52) Toluene | 10.176 | 92 | 100248 | 51.531 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 54221 | 54.774 ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 57850 | 53.316 ug/l | 96 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 26808 | 52.828 ug/l | 99 |
| 56) Ethyl methacrylate | 10.445 | 69 | 37346 | 56.020 ug/l | 98 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 44949 | 54.576 ug/l | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 68375 | 294.122 ug/l | 100 |
| 59) 2-Hexanone | 10.768 | 43 | 64500 | 295.048 ug/l | 98 |
| 60) Dibromochloromethane | 10.920 | 129 | 42531 | 51.869 ug/l | 96 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 25662 | 53.744 ug/l | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 40834 | 51.414 ug/l | 96 |
| 65) Chlorobenzene | 11.451 | 112 | 116432 | 51.151 ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 45293 | 51.360 ug/l | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 206644 | 51.942 ug/l | 98 |
| 68) m/p-Xylenes | 11.633 | 106 | 156992 | 103.449 ug/l | 99 |
| 69) o-Xylene | 11.963 | 106 | 75564 | 52.115 ug/l | 99 |
| 70) Styrene | 11.975 | 104 | 126718 | 52.061 ug/l | 99 |
| 71) Bromoform | 12.139 | 173 | 28066 | 55.357 ug/l # | 99 |
| 73) Isopropylbenzene | 12.261 | 105 | 209755 | 50.166 ug/l | 99 |
| 74) N-amyl acetate | 12.078 | 43 | 33024 | 55.579 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 28705 | 53.553 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 42318 | 88.894 ug/l # | 100 |
| 77) Bromobenzene | 12.536 | 156 | 49237 | 51.155 ug/l | 98 |
| 78) n-propylbenzene | 12.603 | 91 | 235128 | 50.173 ug/l | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 136280 | 51.012 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 177863 | 51.057 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 10590 | 54.534 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 141476 | 51.241 ug/l | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 164603 | 50.596 ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 174321 | 51.423 ug/l | 99 |
| 85) sec-Butylbenzene | 13.182 | 105 | 221870 | 50.603 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 198854 | 50.891 ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 95245 | 50.631 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 94865 | 50.694 ug/l | 99 |
| 89) n-Butylbenzene | 13.621 | 91 | 166380 | 51.010 ug/l | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 37154 | 50.005 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 13.664 | 146 | 85113 | 52.769 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 5917 | 56.916 ug/l | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 54457 | 53.117 ug/l | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 37636 | 50.369 ug/l | 99 |
| 95) Naphthalene | 15.151 | 128 | 92244 | 56.177 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 46678 | 54.682 ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020709.D
Acq On : 26 Dec 2024 10:39
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Dec 26 16:06:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

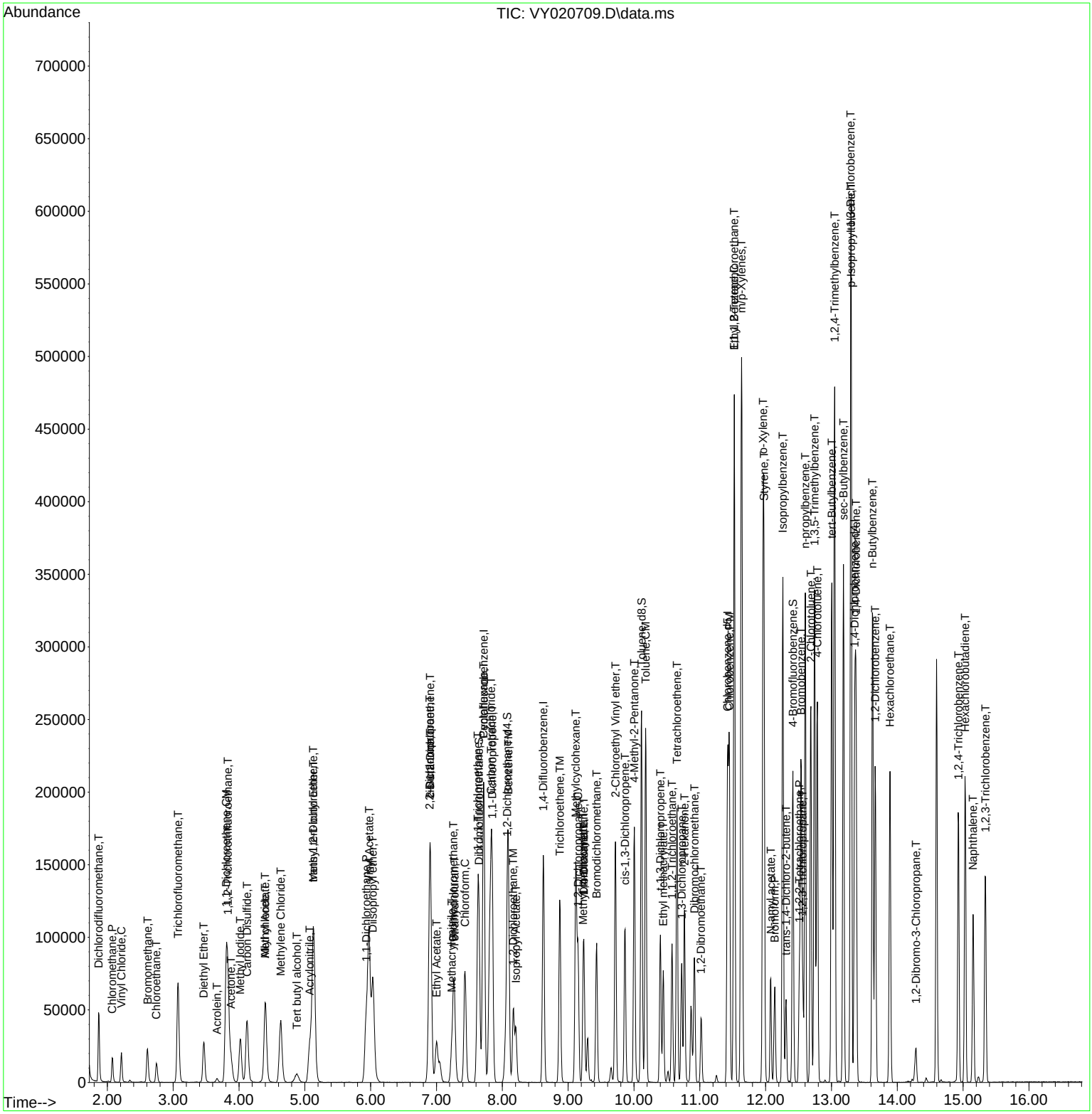
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

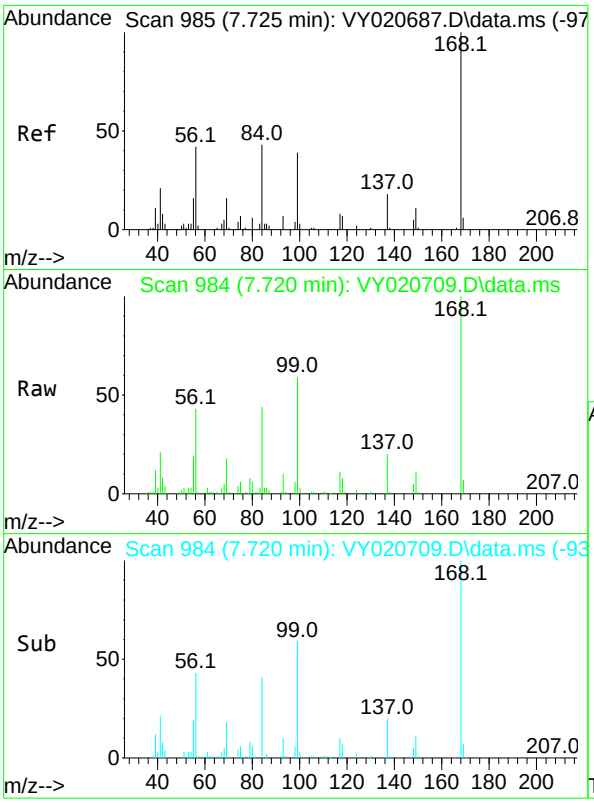
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020709.D
Acq On : 26 Dec 2024 10:39
Operator : SY/MD
Sample : VSTDICC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Quant Time: Dec 26 16:06:11 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration



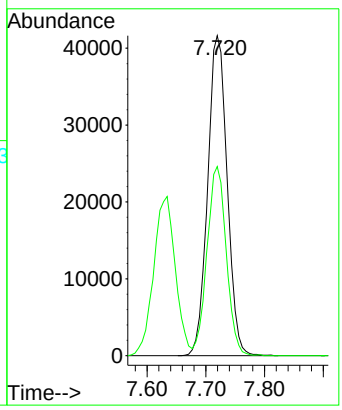


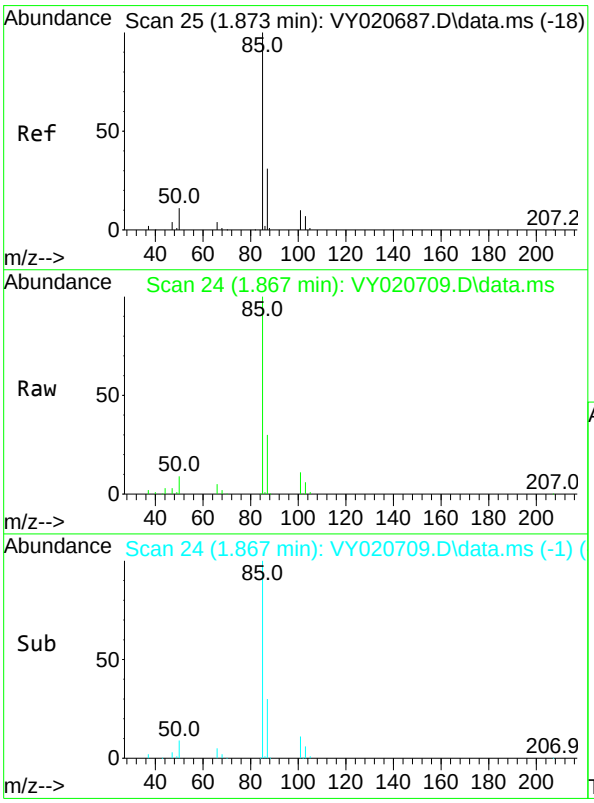

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 9
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:168 Resp: 95919

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.1 | 43.8 | 65.6 |

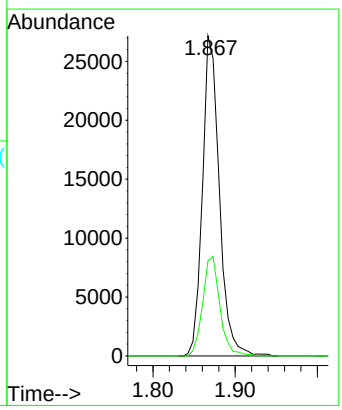


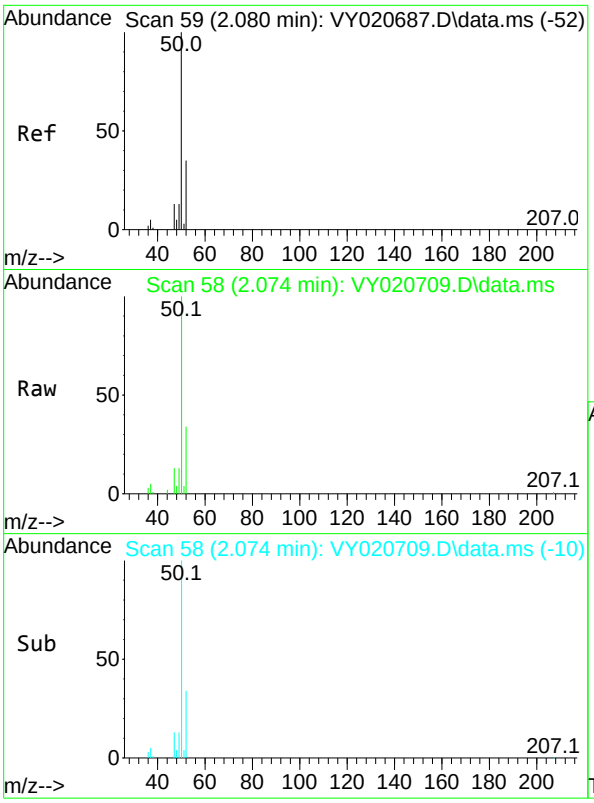




#2
Dichlorodifluoromethane
Concen: 51.393 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 85 Resp: 38801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.8 | 15.4 | 46.4 |



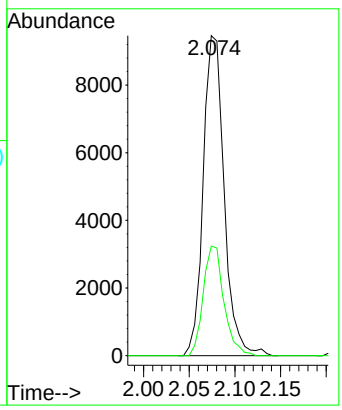


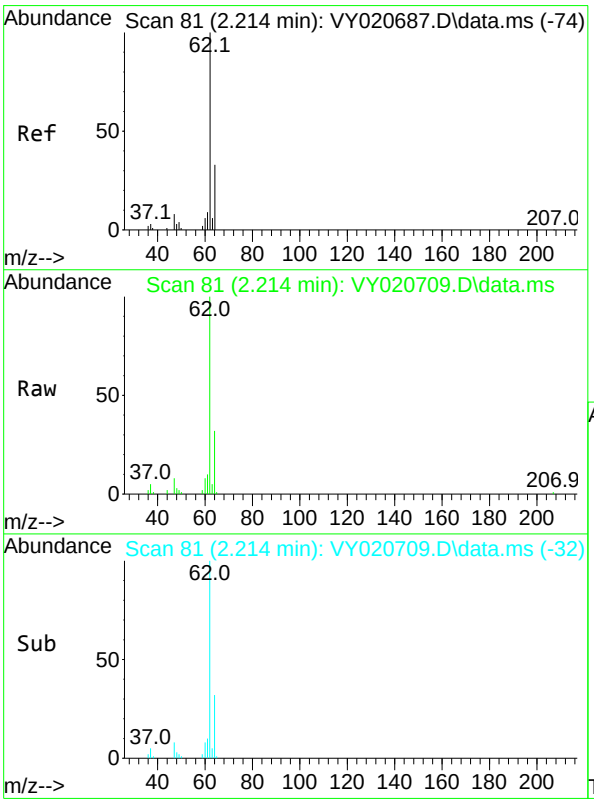

#3
Chloromethane
Concen: 53.407 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 50 Resp: 15038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.3 | 28.2 | 42.2 |

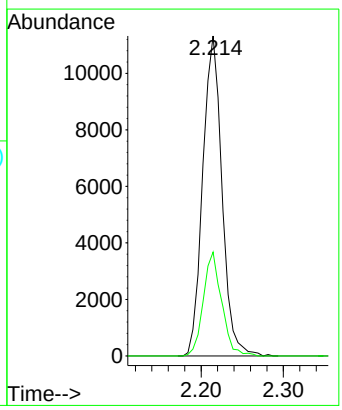


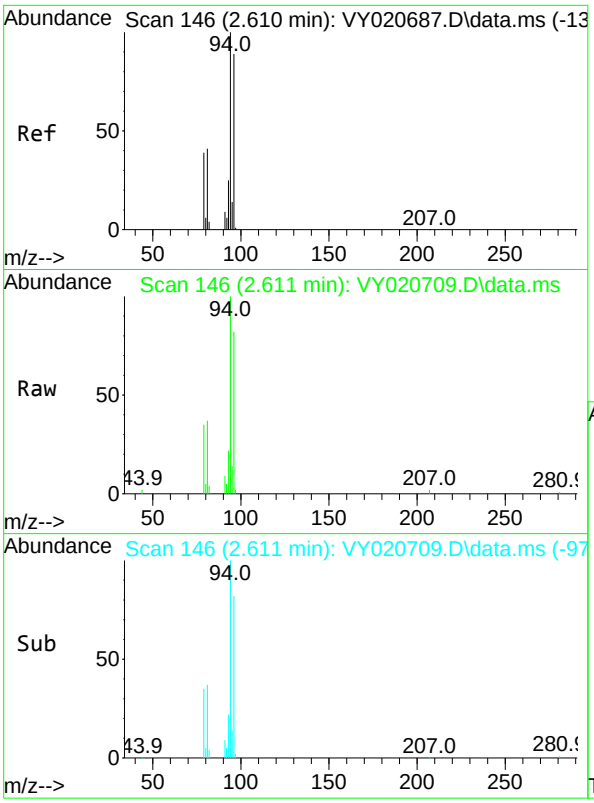




#4
Vinyl Chloride
Concen: 52.843 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 62 Resp: 18435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.5 | 26.6 | 40.0 |



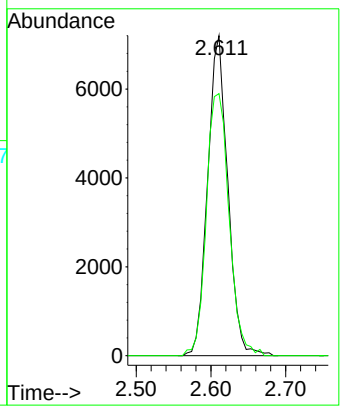


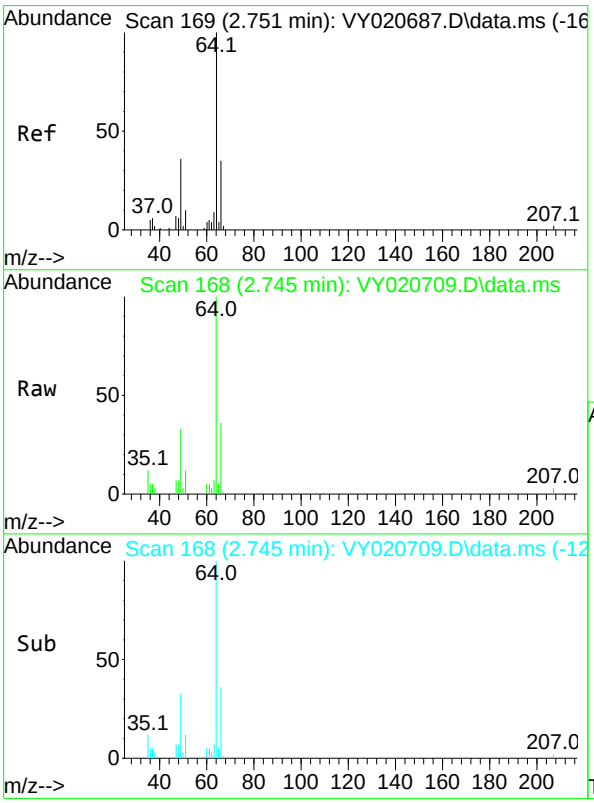

#5
Bromomethane
Concen: 51.355 ug/l
RT: 2.611 min Scan# 14
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 94 Resp: 13527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 81.9 | 71.0 | 106.6 |

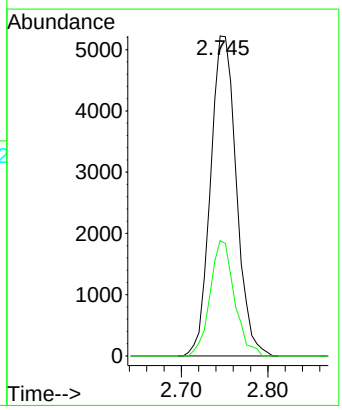


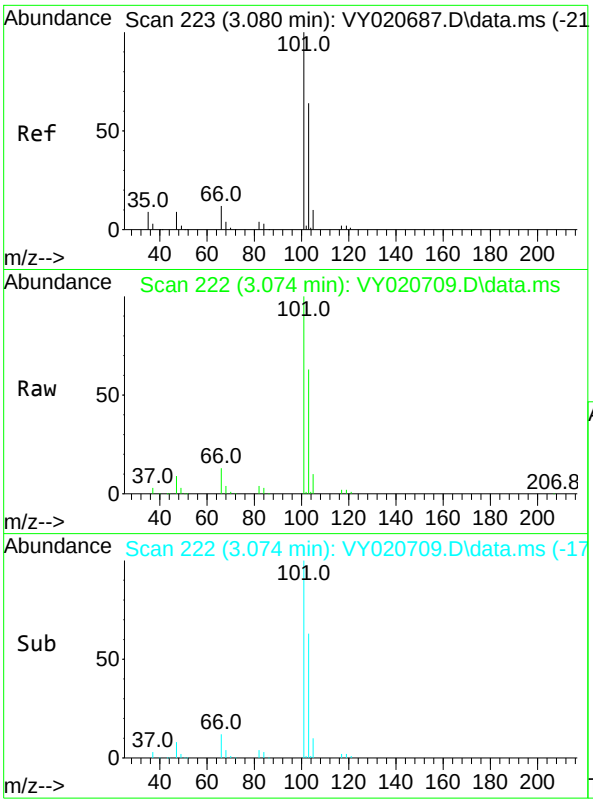




#6
Chloroethane
Concen: 51.686 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 64 Resp: 10817

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 36.0 | 27.8 | 41.8 |



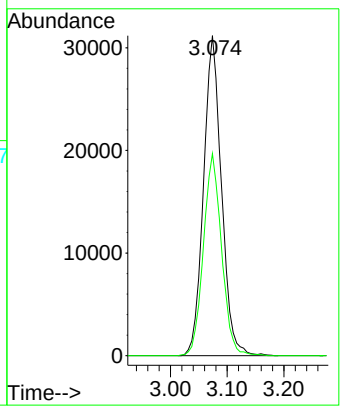


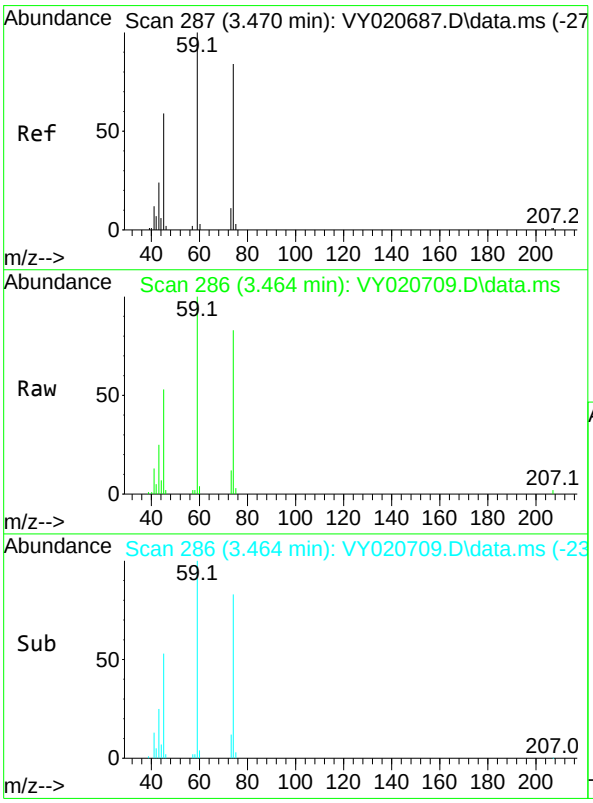

#7
Trichlorofluoromethane
Concen: 51.119 ug/l
RT: 3.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 68580

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.1 | 51.4 | 77.0 |

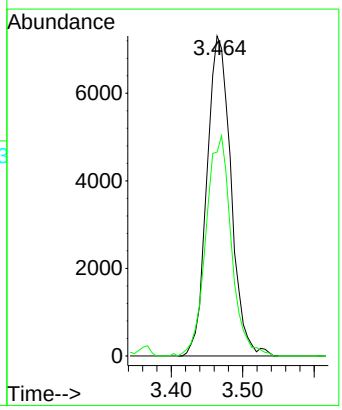


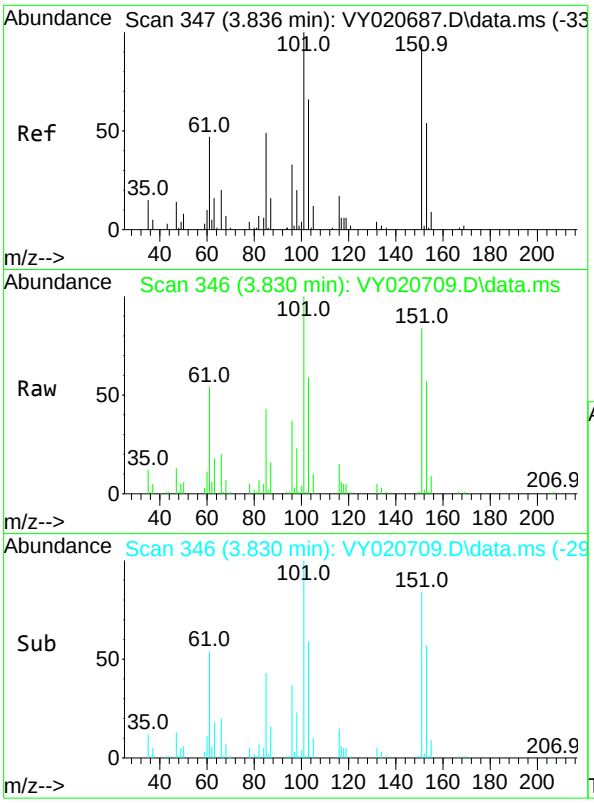




#8
Diethyl Ether
Concen: 53.449 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 74 Resp: 17063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 72.5 | 35.8 | 107.4 |



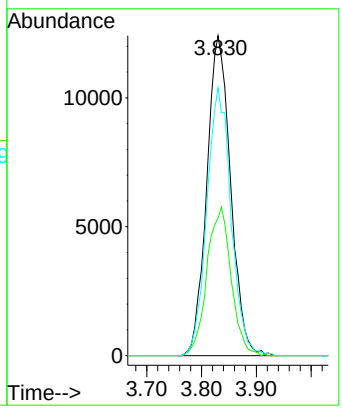


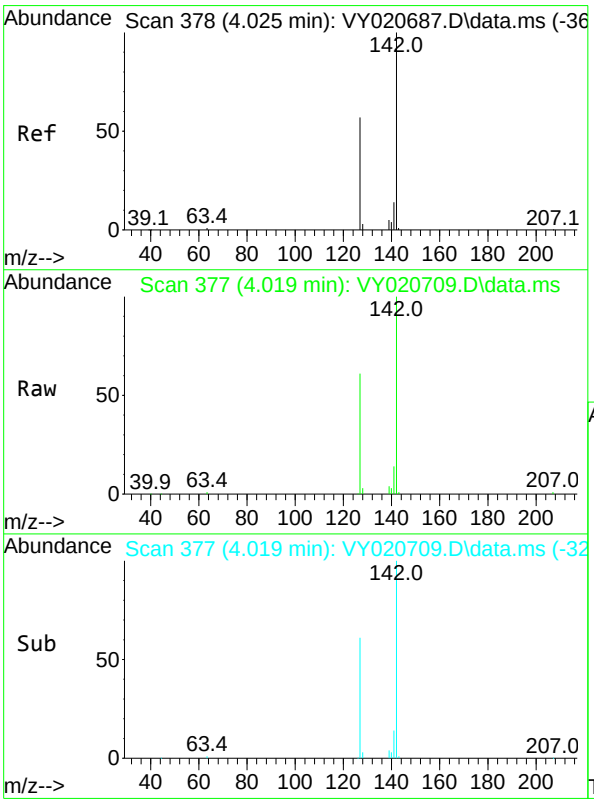

#9
1,1,2-Trichlorotrifluoroethane
Concen: 50.872 ug/l
RT: 3.830 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 37468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.0 | 38.2 | 57.2 |
| 151 | 85.1 | 68.4 | 102.6 |

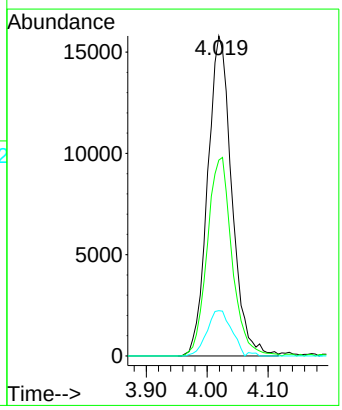


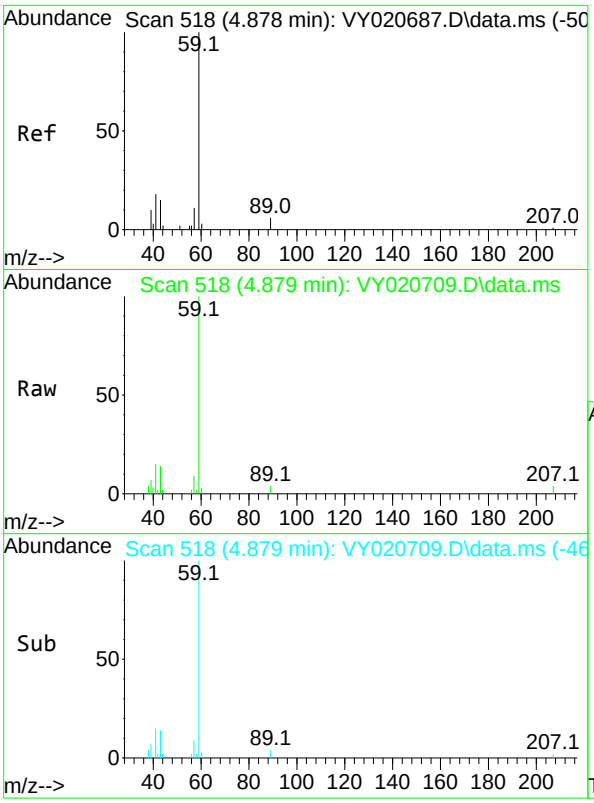




#10
Methyl Iodide
Concen: 53.984 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:142 Resp: 43478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 63.6 | 48.8 | 73.2 |
| 141 | 14.6 | 11.9 | 17.9 |



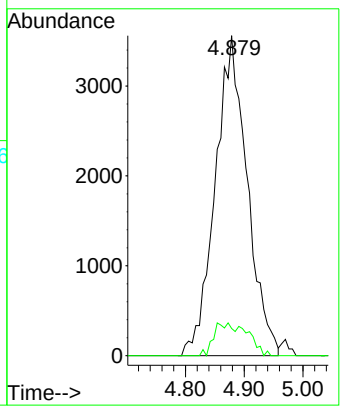


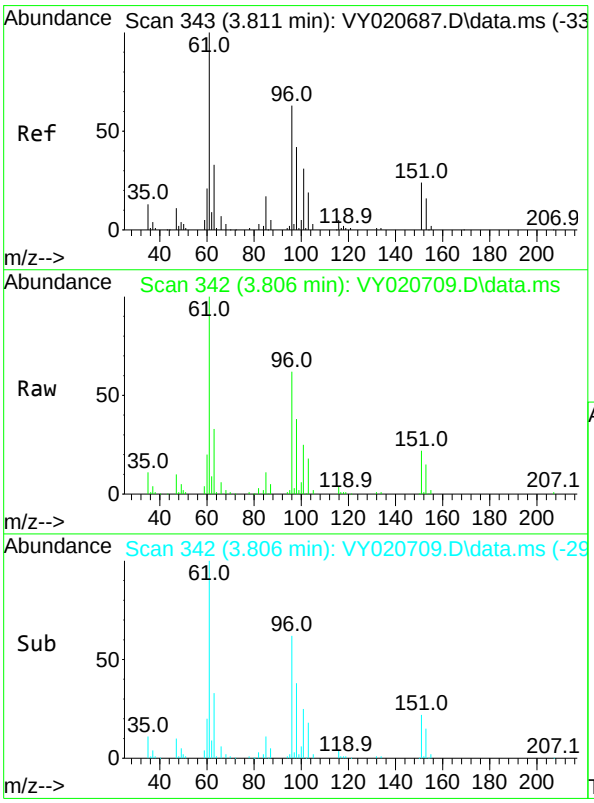

#11
Tert butyl alcohol
Concen: 276.533 ug/l
RT: 4.879 min Scan# 5
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 59 Resp: 13467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 6.4 | 2.8 | 4.2# |

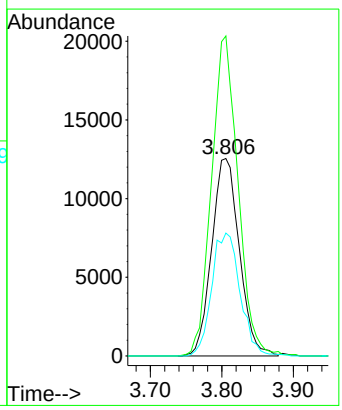


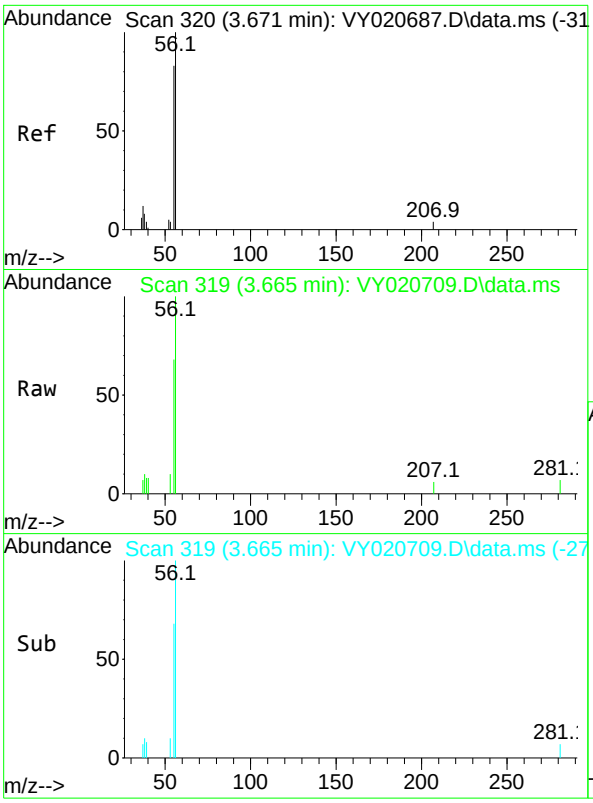




#12
1,1-Dichloroethene
Concen: 51.495 ug/l
RT: 3.806 min Scan# 342
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 96 Resp: 33758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 162.0 | 127.1 | 190.7 |
| 98 | 62.2 | 53.4 | 80.0 |



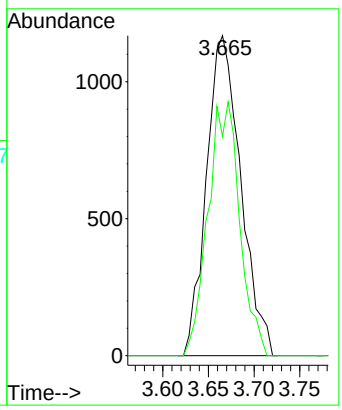


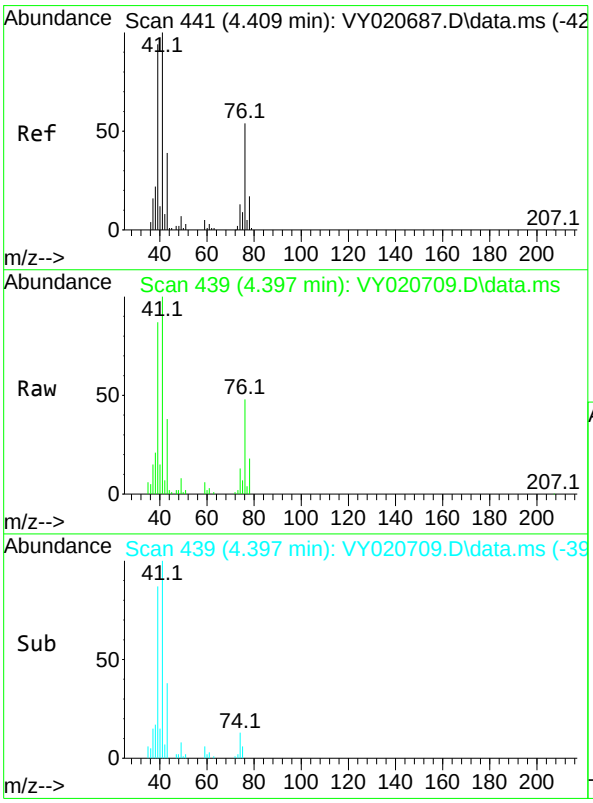

#13
Acrolein
Concen: 185.584 ug/l
RT: 3.665 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 3048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.2 | 57.0 | 85.4 |

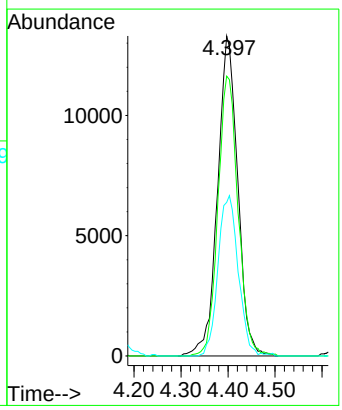


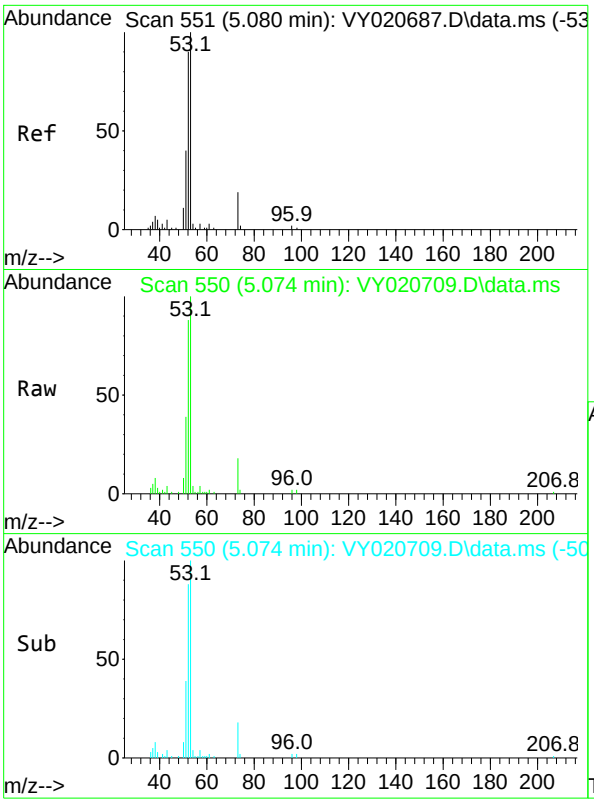




#14
Allyl chloride
Concen: 51.717 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.012 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 41 Resp: 39674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 87.2 | 73.5 | 110.3 |
| 76 | 50.6 | 41.8 | 62.8 |



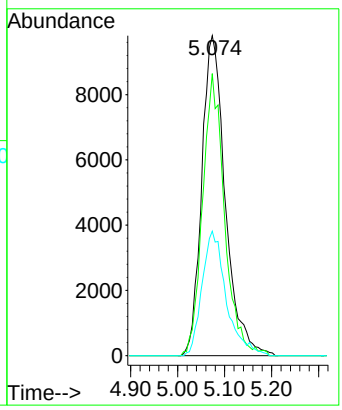


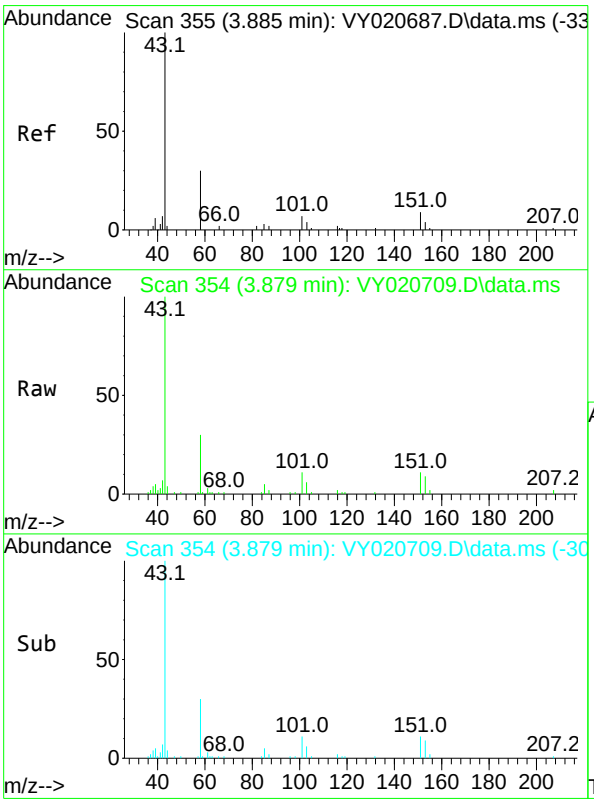

#15
Acrylonitrile
Concen: 276.260 ug/l
RT: 5.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 53 Resp: 34070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.1 | 67.1 | 100.7 |
| 51 | 40.1 | 31.4 | 47.0 |

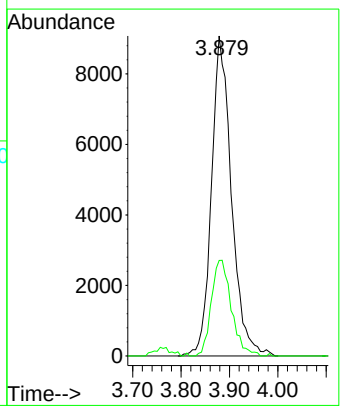


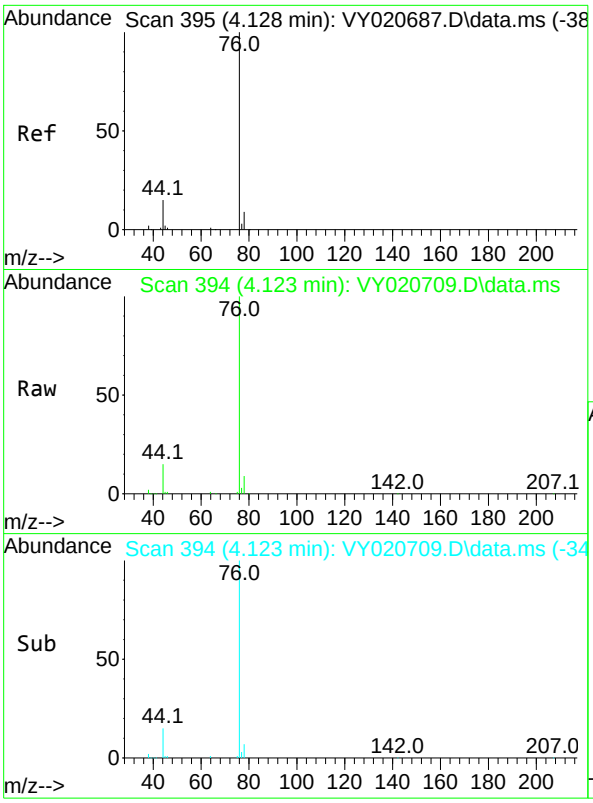




#16
Acetone
Concen: 261.525 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 26066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.9 | 25.0 | 37.6 |



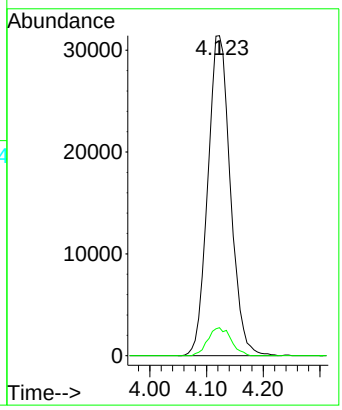


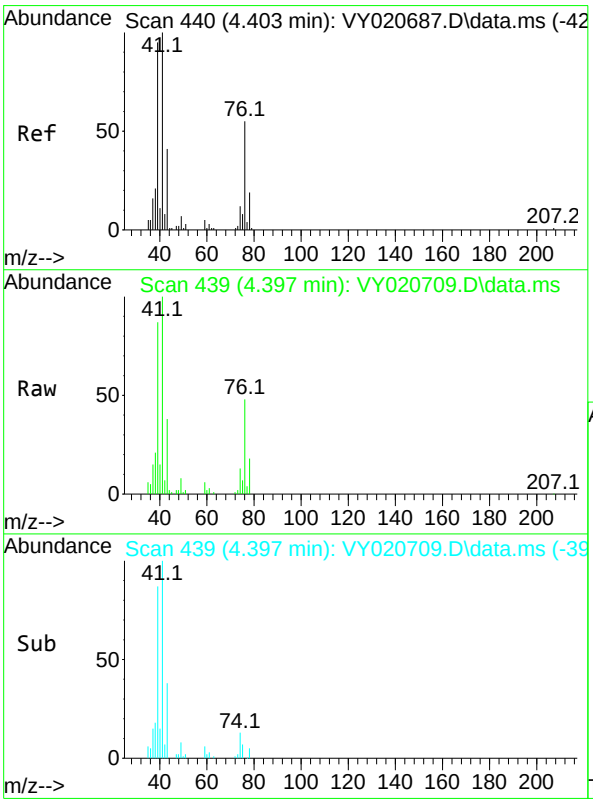

#17
Carbon Disulfide
Concen: 54.046 ug/l
RT: 4.123 min Scan# 3
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 86912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 6.9 | 10.3 |

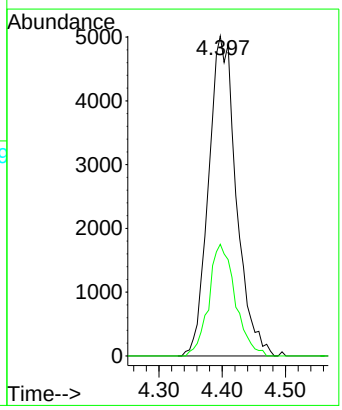


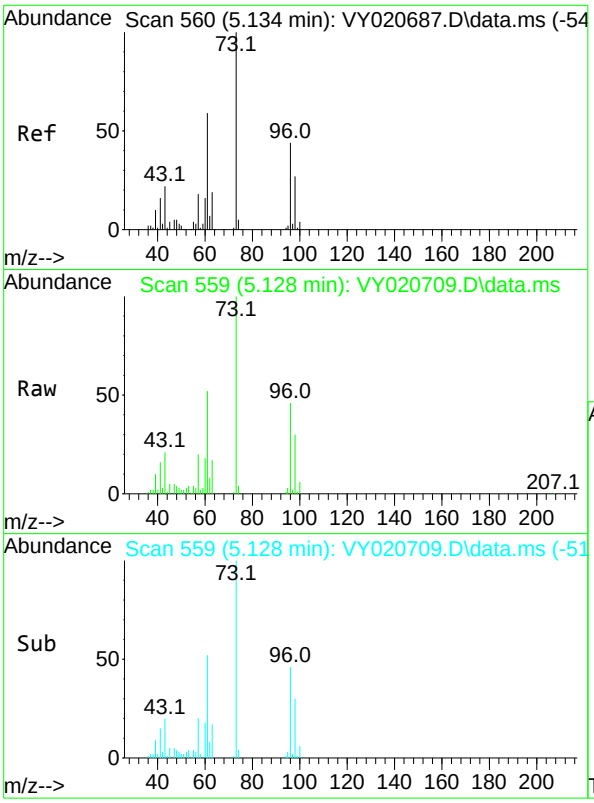




#18
Methyl Acetate
Concen: 56.466 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 15232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 33.3 | 25.3 | 37.9 |



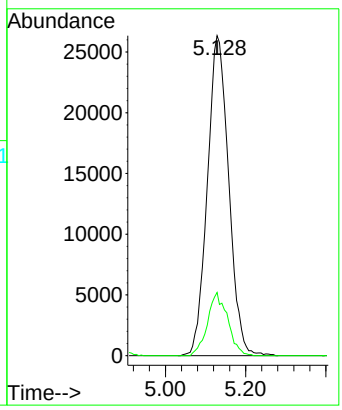


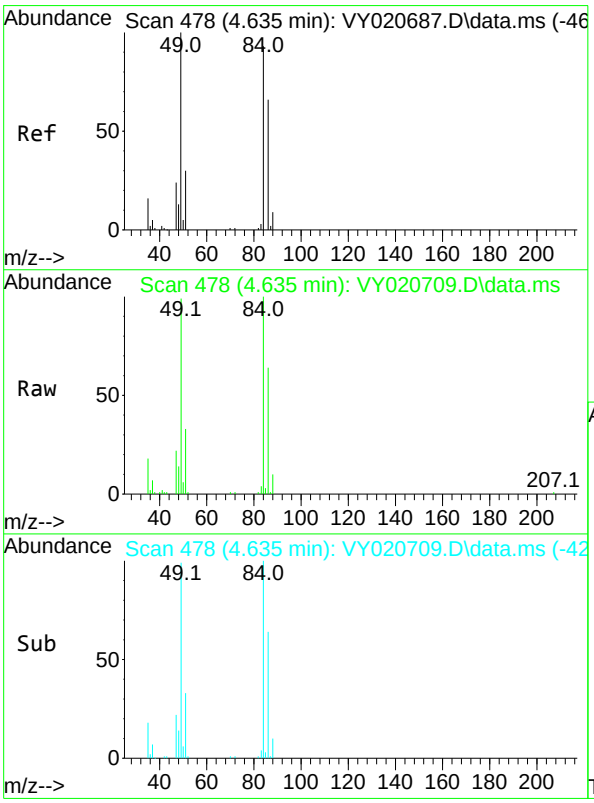

#19
Methyl tert-butyl Ether
Concen: 53.300 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 73 Resp: 97389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.7 | 14.4 | 21.6 |

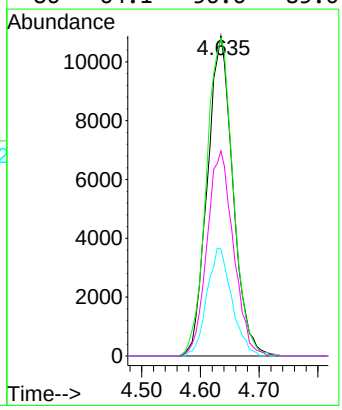


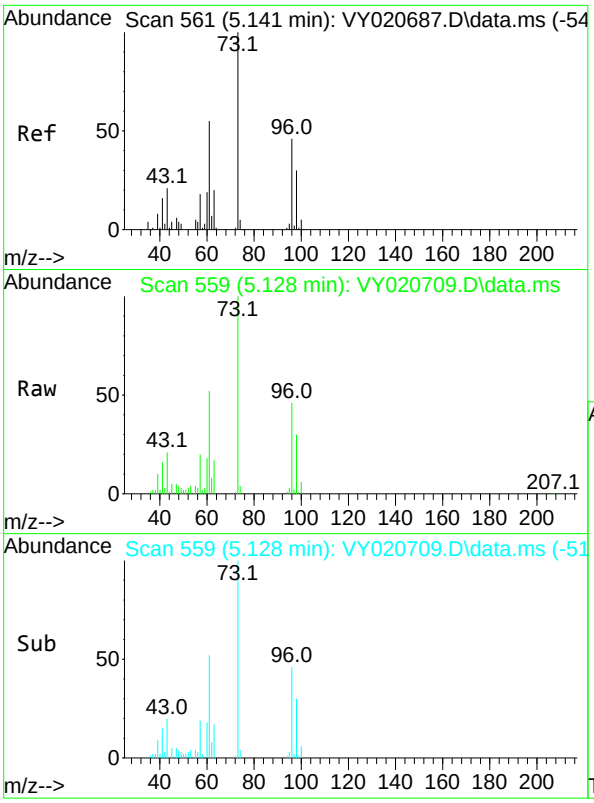




#20
Methylene Chloride
Concen: 50.741 ug/l
RT: 4.635 min Scan# 478
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 84 Resp: 32892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 99.3 | 86.4 | 129.6 |
| 51 | 33.4 | 25.5 | 38.3 |
| 86 | 64.1 | 56.6 | 85.0 |



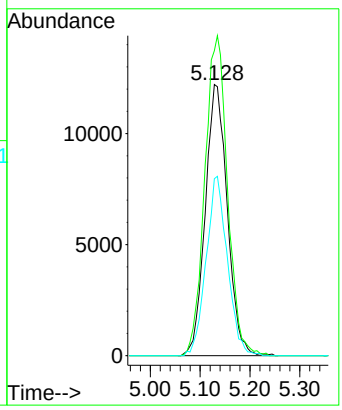


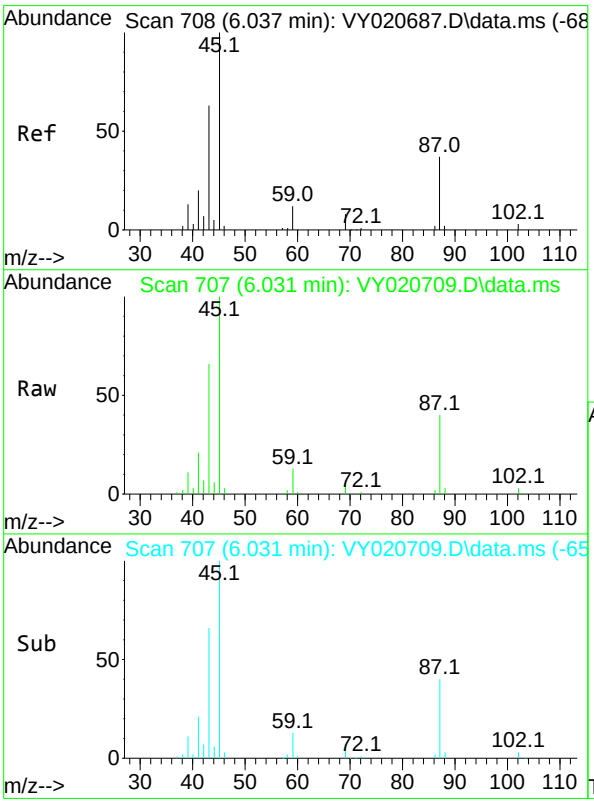

#21
trans-1,2-Dichloroethene
Concen: 53.081 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.013 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 37498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 112.5 | 96.1 | 144.1 |
| 98 | 65.3 | 52.7 | 79.1 |

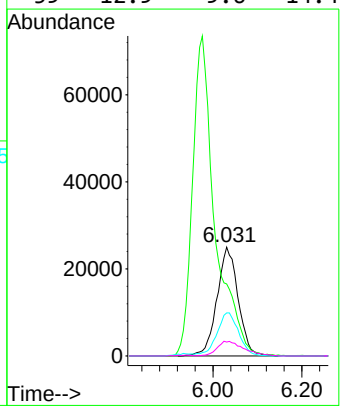


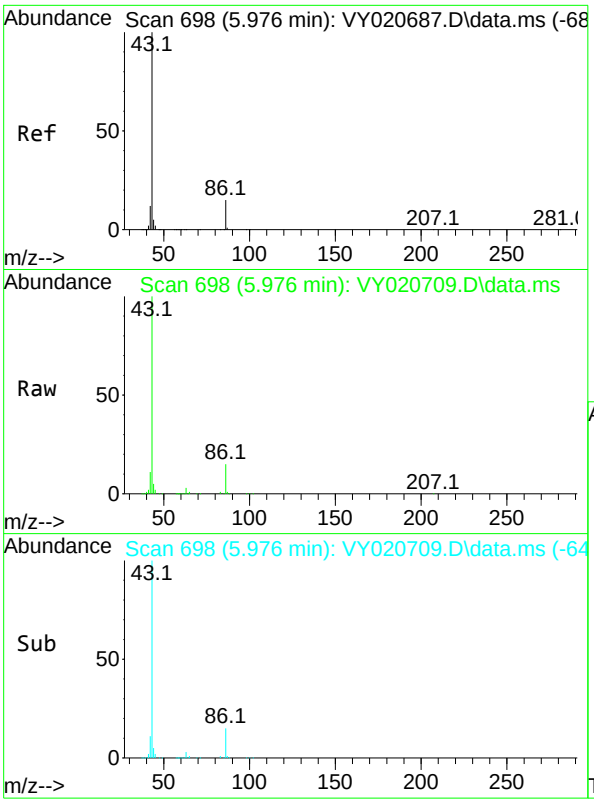




#22
Diisopropyl ether
Concen: 52.731 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 45 Resp: 82233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.4 | 51.3 | 76.9 |
| 87 | 39.6 | 30.6 | 46.0 |
| 59 | 12.9 | 9.6 | 14.4 |



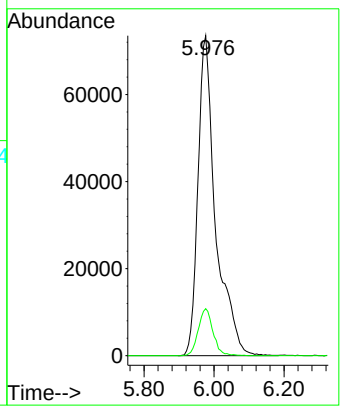


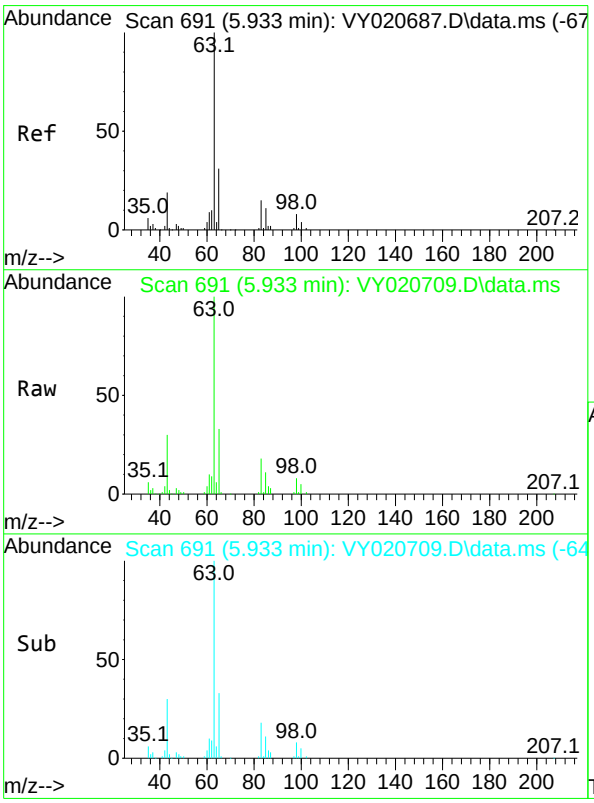

#23
Vinyl Acetate
Concen: 276.499 ug/l
RT: 5.976 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 257552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.7 | 12.0 | 18.0 |

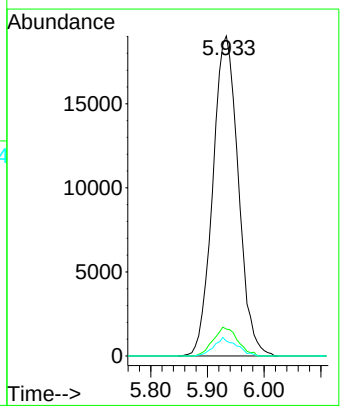


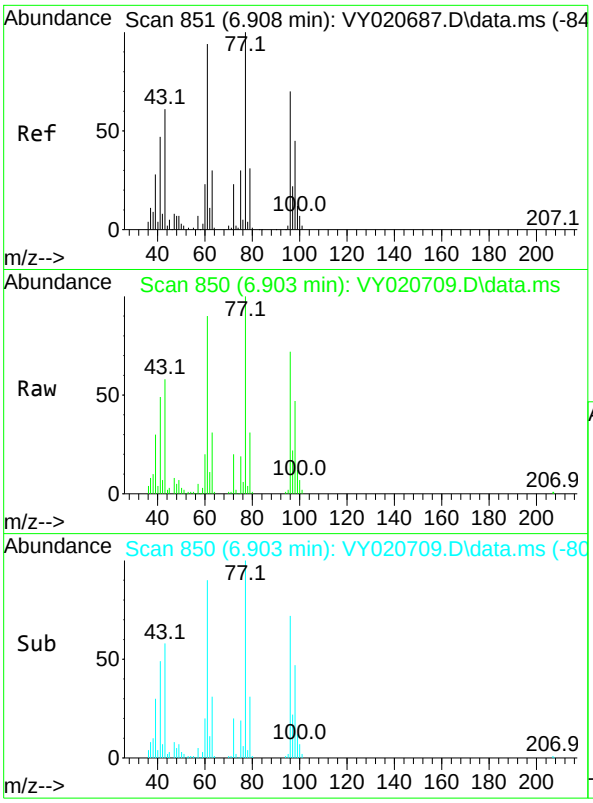




#24
1,1-Dichloroethane
Concen: 50.822 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 63 Resp: 59422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.4 | 4.0 | 12.0 |
| 100 | 4.6 | 2.1 | 6.2 |



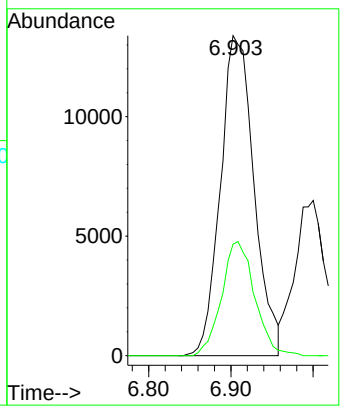


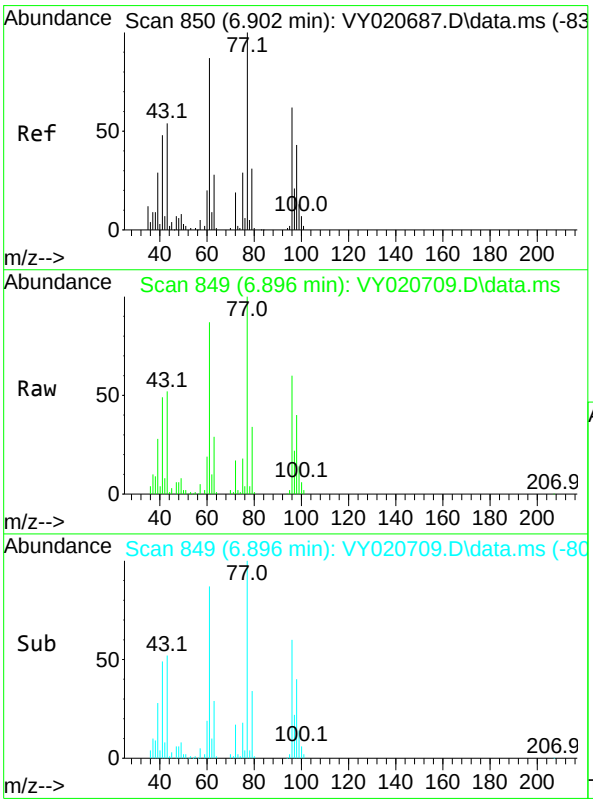

#25
2-Butanone
Concen: 283.310 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 38144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 34.9 | 29.5 | 44.3 |

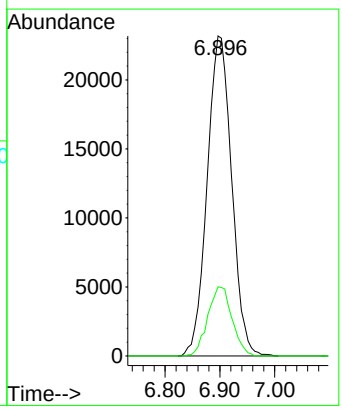


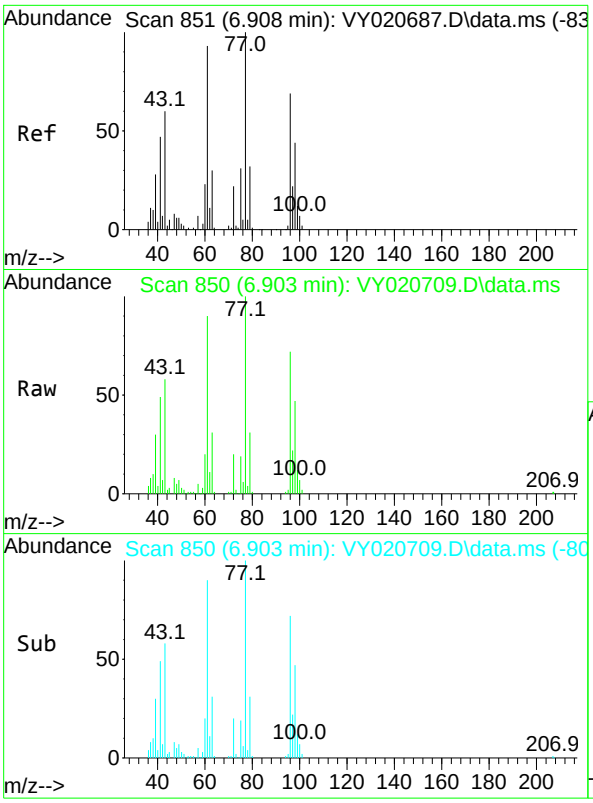




#26
2,2-Dichloropropane
Concen: 50.280 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 77 Resp: 71954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.4 | 10.8 | 32.4 |



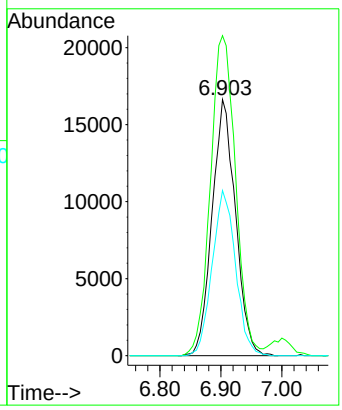


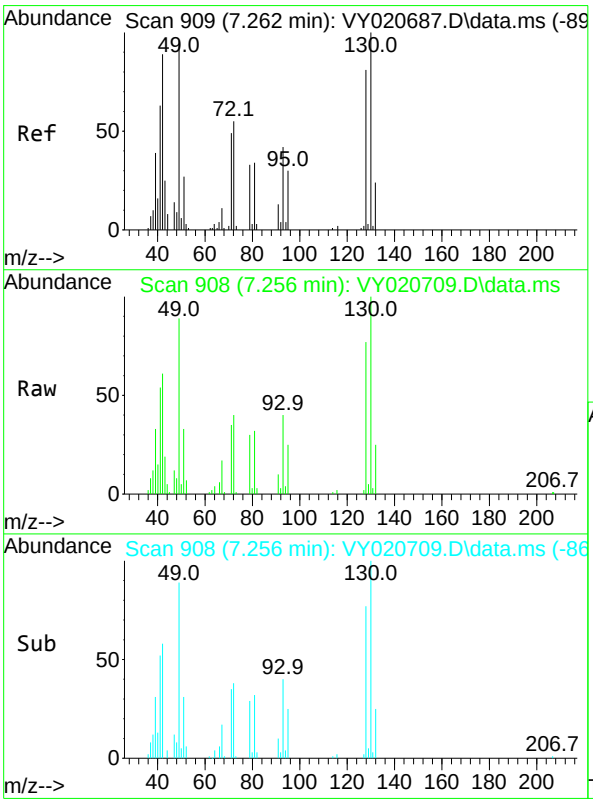

#27
cis-1,2-Dichloroethene
Concen: 52.410 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 44338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.5 | 0.0 | 277.2 |
| 98 | 64.5 | 0.0 | 131.0 |

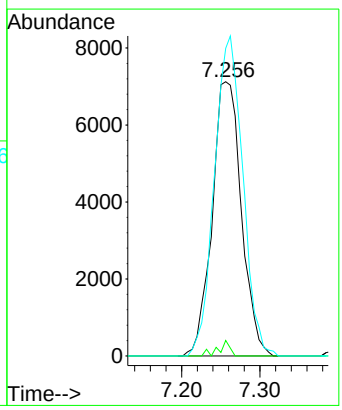


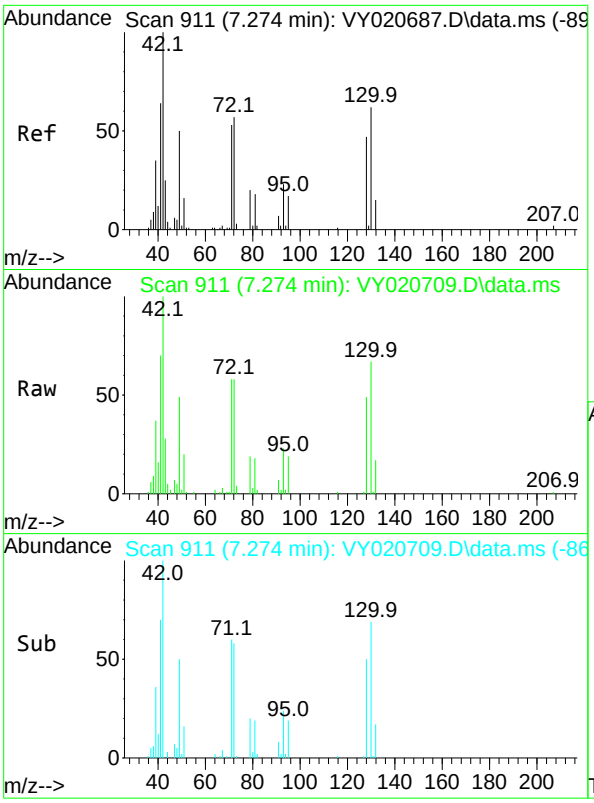




#28
Bromochloromethane
Concen: 59.719 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 49 Resp: 18465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 5.4 |
| 130 | 113.6 | 87.2 | 130.8 |



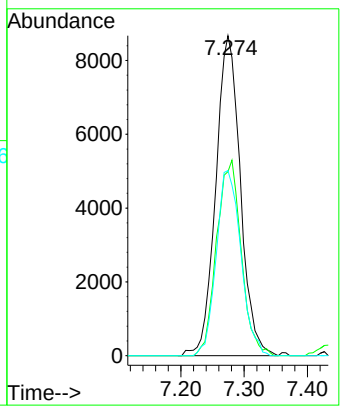


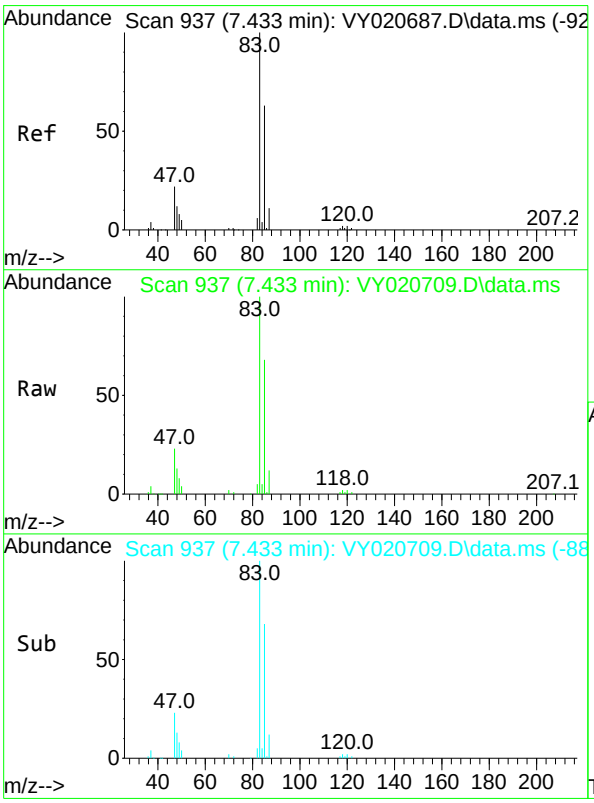

#29
Tetrahydrofuran
Concen: 283.255 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 42 Resp: 23409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 61.0 | 47.4 | 71.0 |
| 71 | 57.8 | 42.8 | 64.2 |

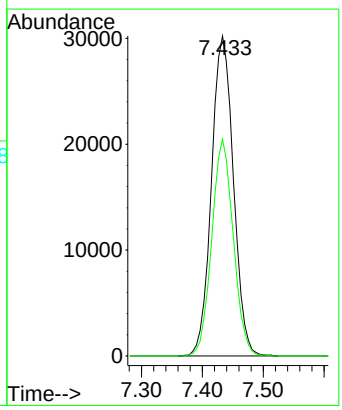


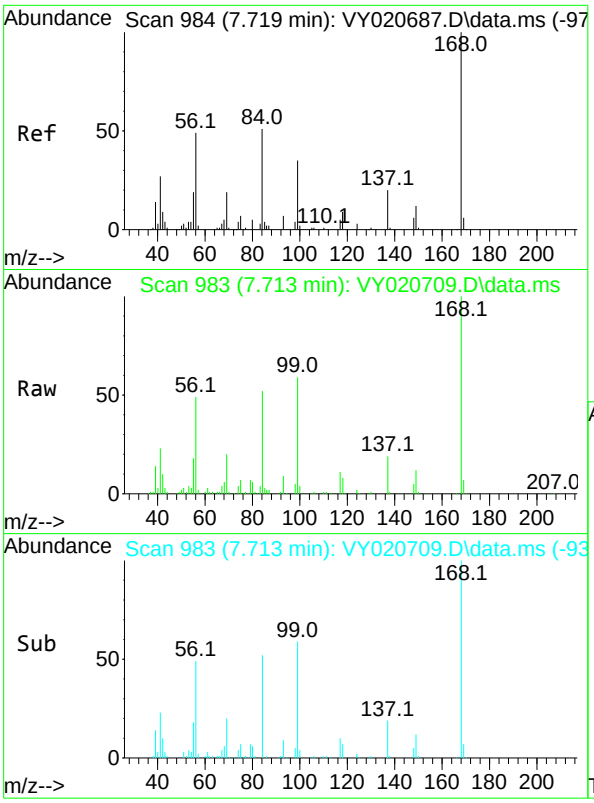




#30
Chloroform
Concen: 50.224 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 83 Resp: 75540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.8 | 50.2 | 75.2 |



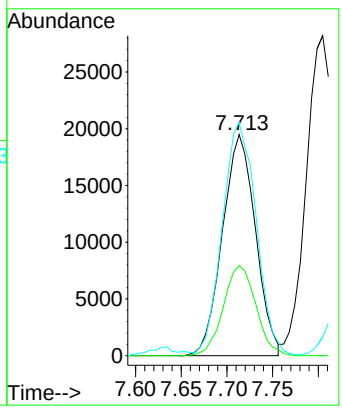


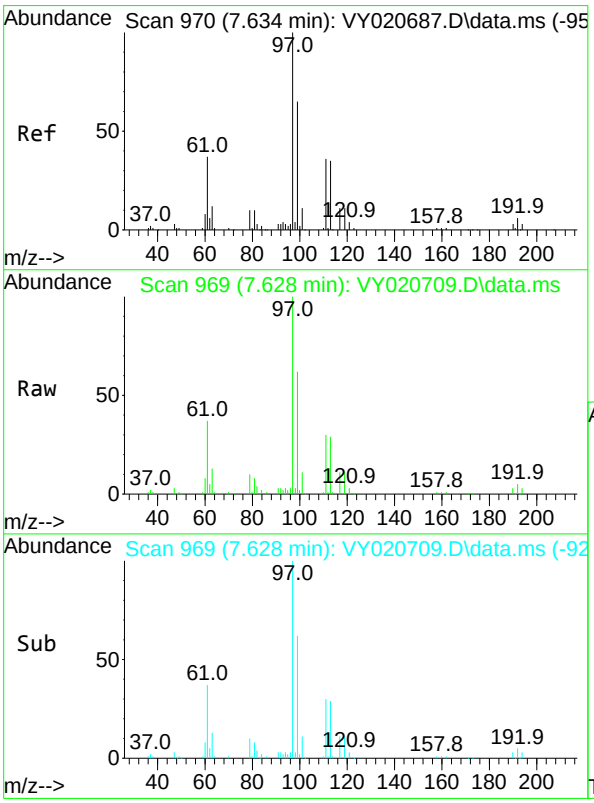

#31
Cyclohexane
Concen: 48.512 ug/l
RT: 7.713 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 48960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 40.7 | 31.3 | 46.9 |
| 84 | 104.0 | 83.9 | 125.9 |

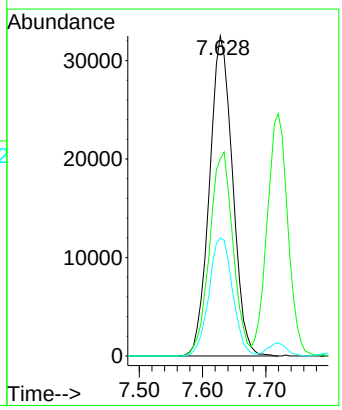


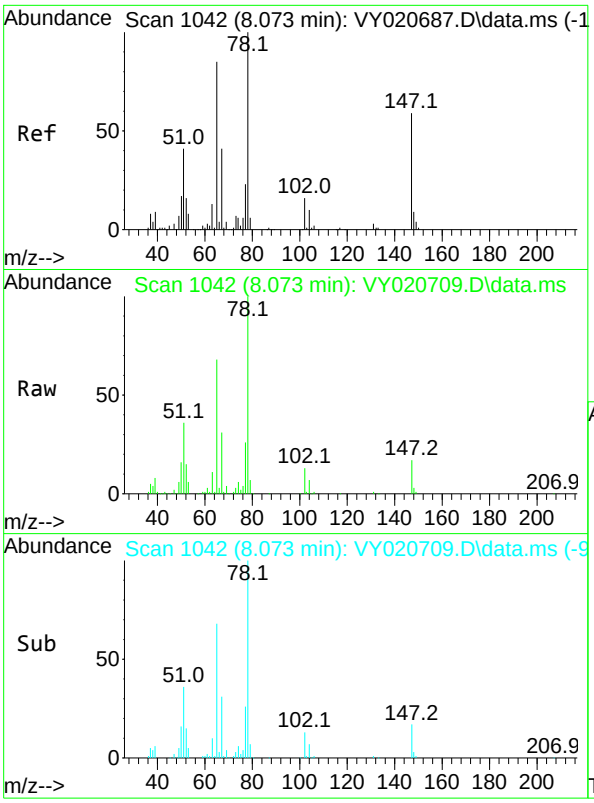




#32
1,1,1-Trichloroethane
Concen: 51.087 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 97 Resp: 82365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.0 | 76.6 |
| 61 | 37.8 | 30.0 | 45.0 |



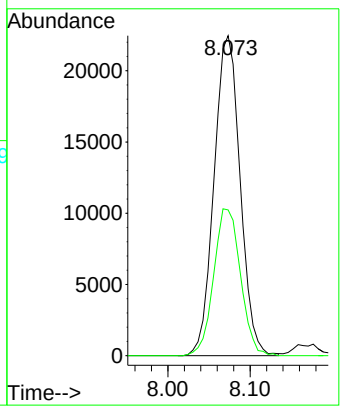


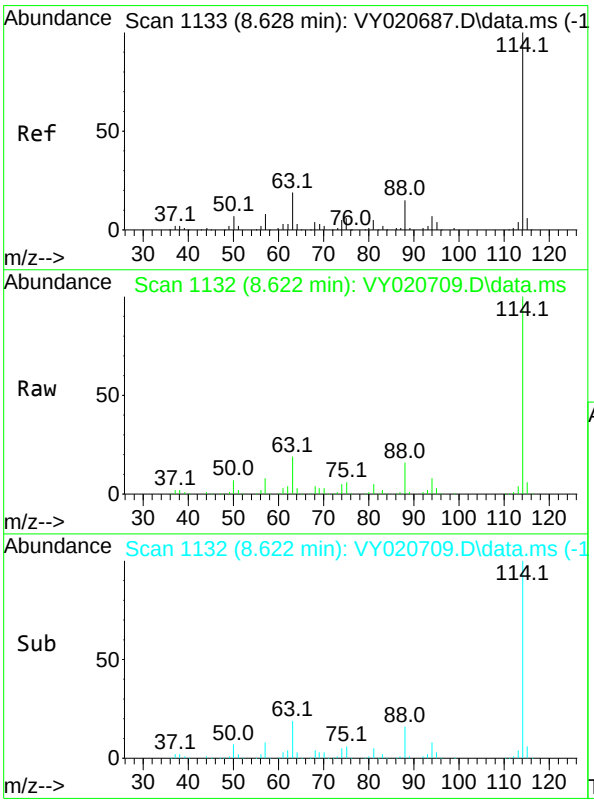

#33
1,2-Dichloroethane-d4
Concen: 63.047 ug/l
RT: 8.073 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 65 Resp: 49534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 47.2 | 0.0 | 98.0 |

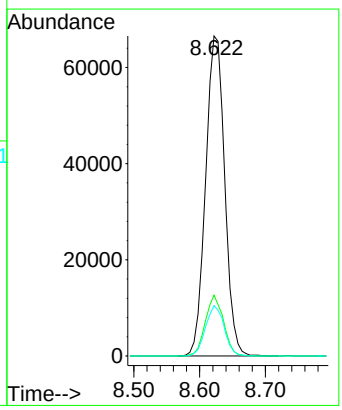


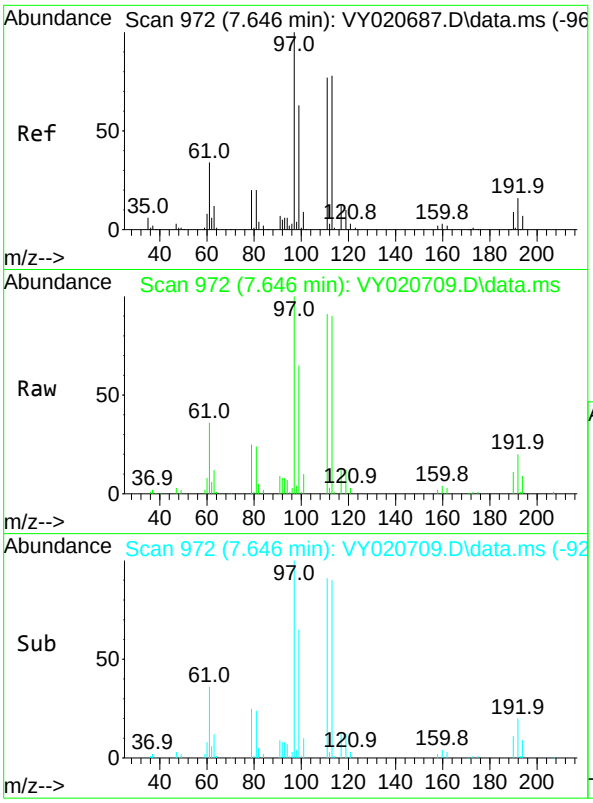




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:114 Resp: 134605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.0 | 0.0 | 38.4 |
| 88 | 15.7 | 0.0 | 30.4 |



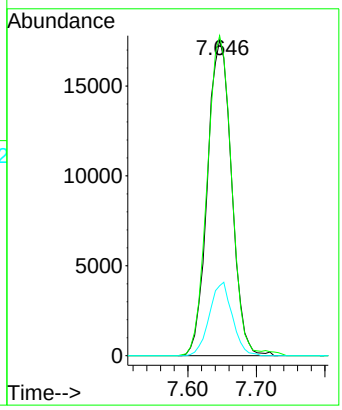


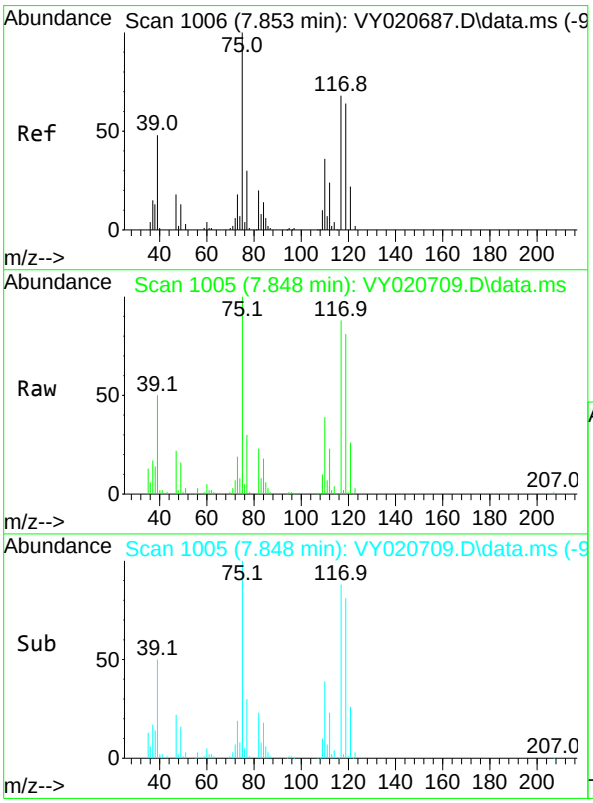

#35
Dibromofluoromethane
Concen: 57.936 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:113 Resp: 42955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 79.8 | 119.8 |
| 192 | 22.0 | 17.0 | 25.6 |

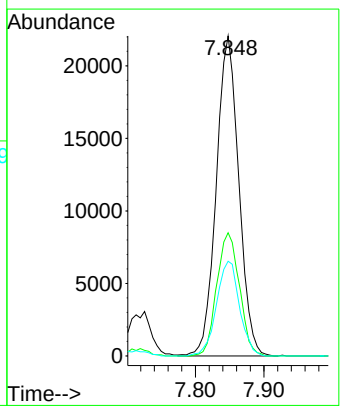


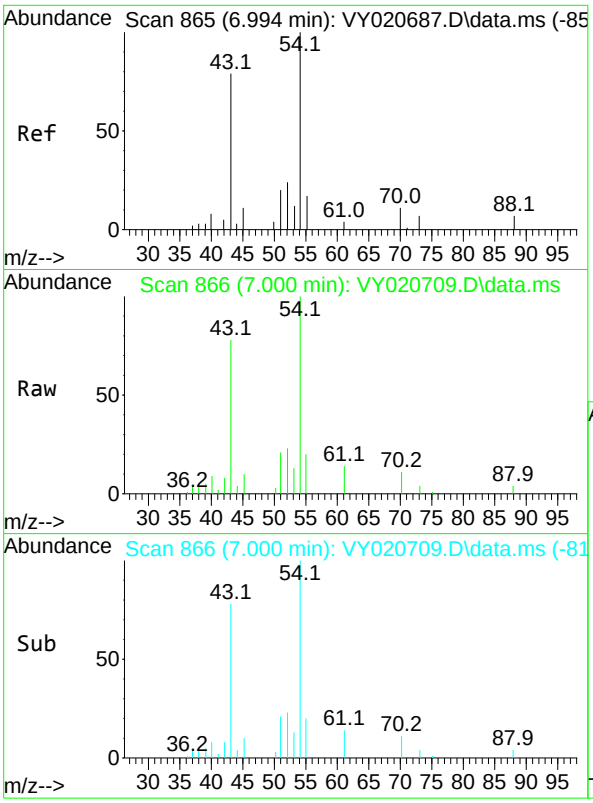




#36
1,1-Dichloropropene
Concen: 51.408 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 75 Resp: 50348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.6 | 19.6 | 58.7 |
| 77 | 30.3 | 25.1 | 37.7 |



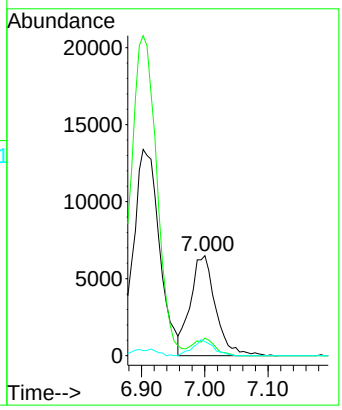


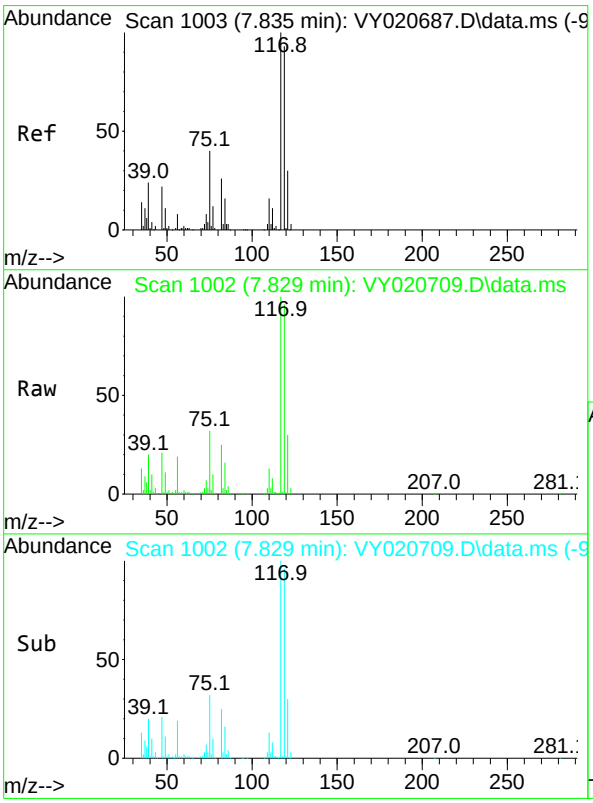

#37
Ethyl Acetate
Concen: 55.607 ug/l
RT: 7.000 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 17946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.9 | 11.7 | 17.5 |
| 70 | 13.0 | 11.0 | 16.4 |

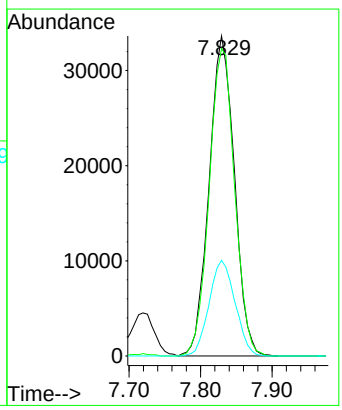


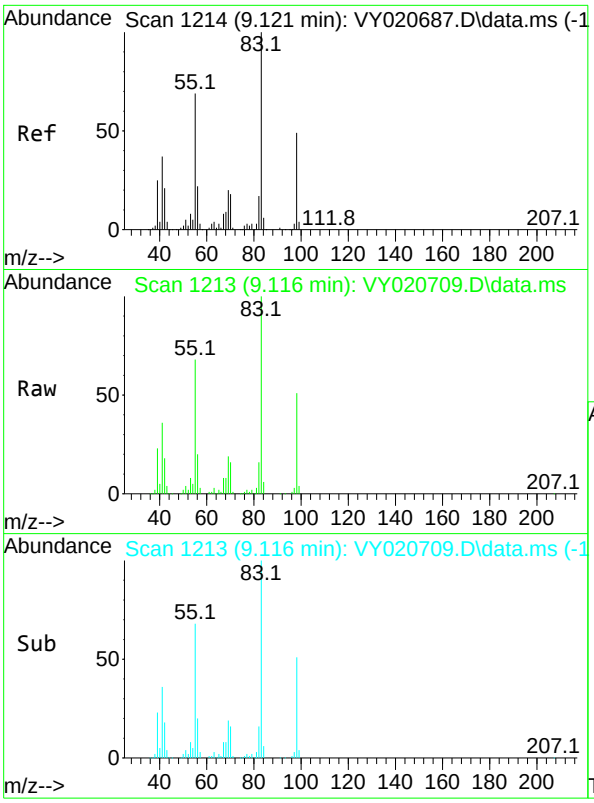




#38
Carbon Tetrachloride
Concen: 51.220 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:117 Resp: 82604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.0 | 74.4 | 111.6 |
| 121 | 29.9 | 24.2 | 36.2 |



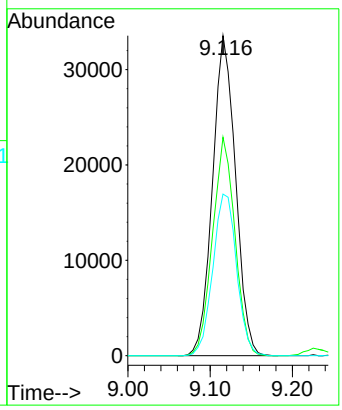


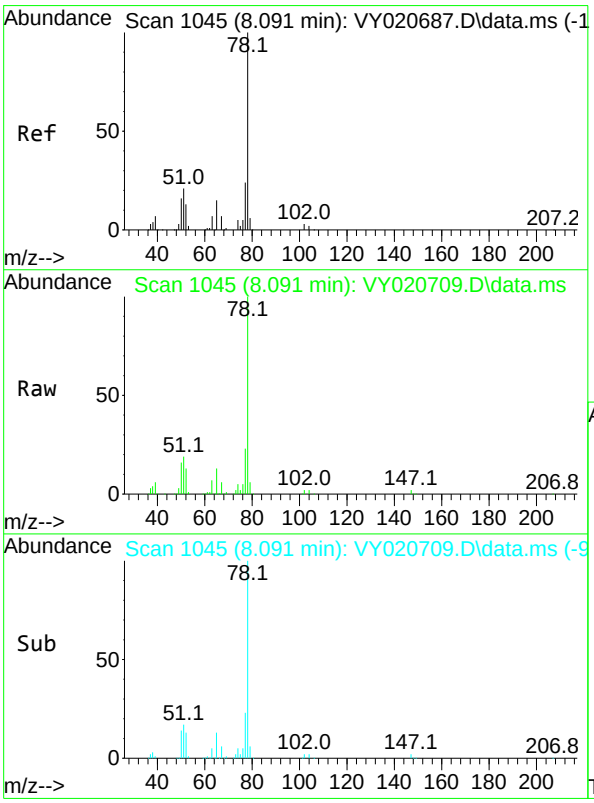

#39
Methylcyclohexane
Concen: 51.957 ug/l
RT: 9.116 min Scan# 1
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 65222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 68.2 | 55.0 | 82.4 |
| 98 | 50.5 | 39.0 | 58.6 |

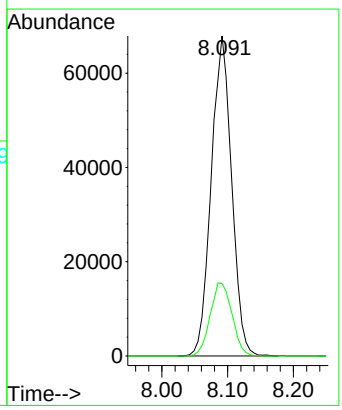


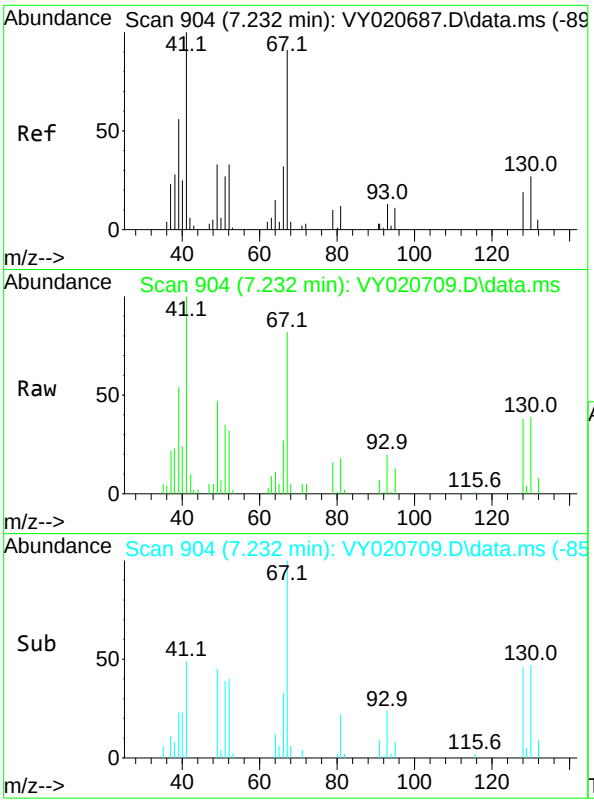




#40
Benzene
Concen: 51.623 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 78 Resp: 146525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 22.6 | 19.2 | 28.8 |



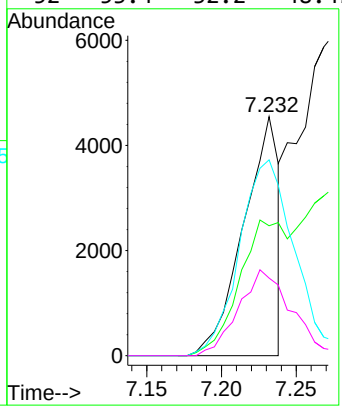


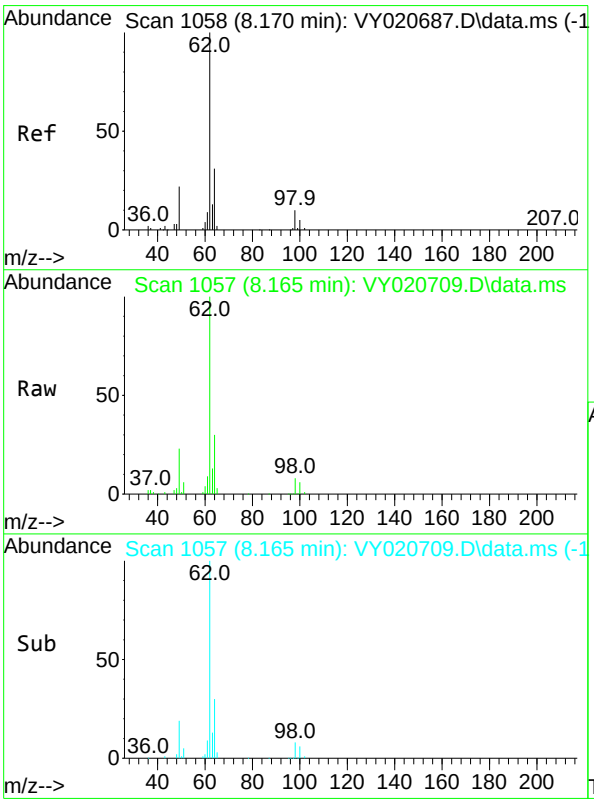

#41
Methacrylonitrile
Concen: 46.116 ug/l
RT: 7.232 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 41 Resp: 7518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 75.4 | 46.6 | 70.0# |
| 67 | 127.7 | 74.7 | 112.1# |
| 52 | 53.4 | 32.2 | 48.4# |

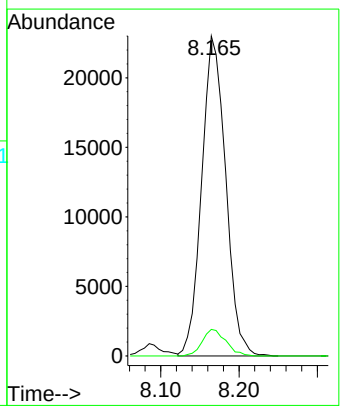


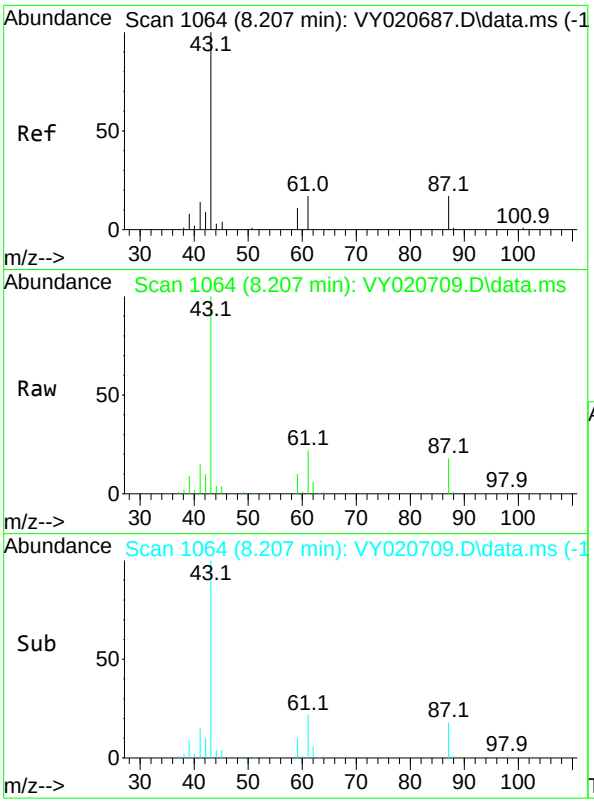




#42
1,2-Dichloroethane
Concen: 53.844 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 62 Resp: 49005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.2 | 0.0 | 16.6 |



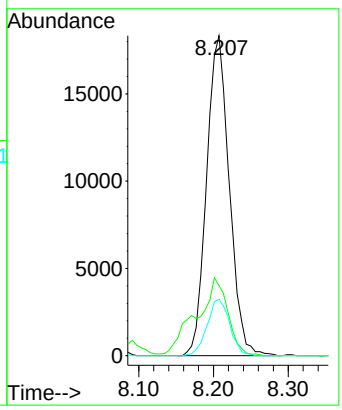


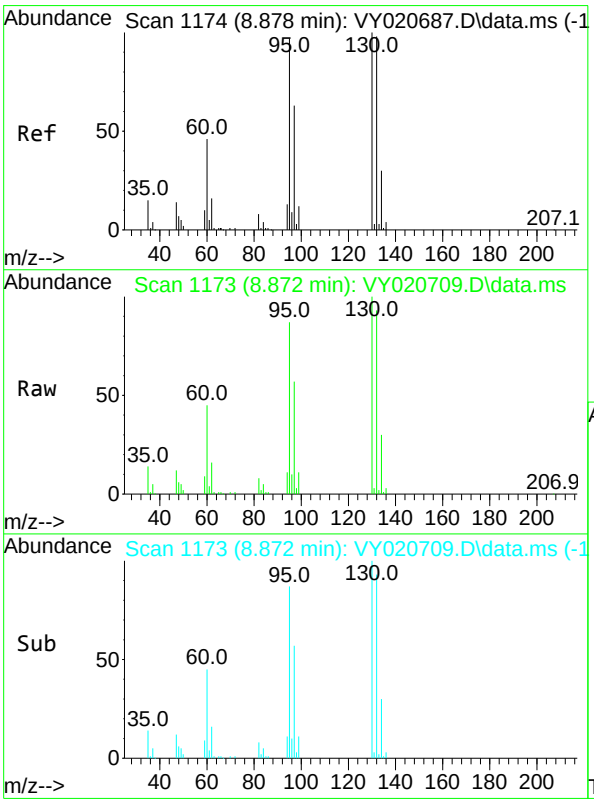

#43
Isopropyl Acetate
Concen: 56.406 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 38693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 34.0 | 27.0 | 40.4 |
| 87 | 17.5 | 14.2 | 21.4 |

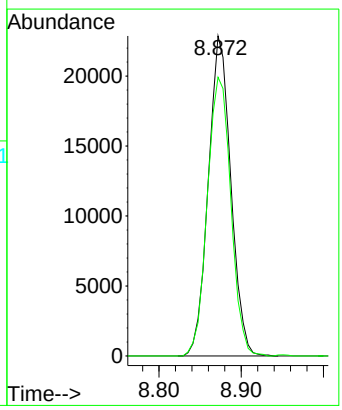


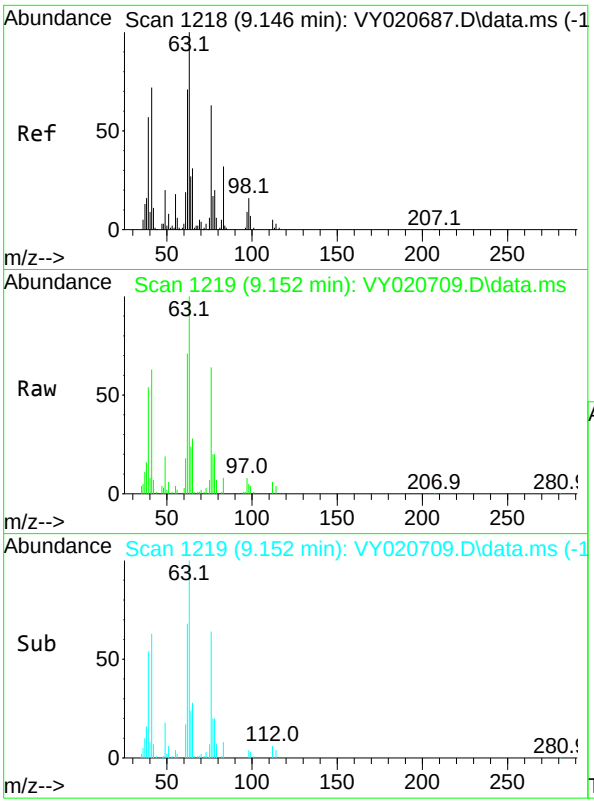




#44
Trichloroethene
Concen: 51.399 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:130 Resp: 43575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 87.1 | 0.0 | 194.8 |



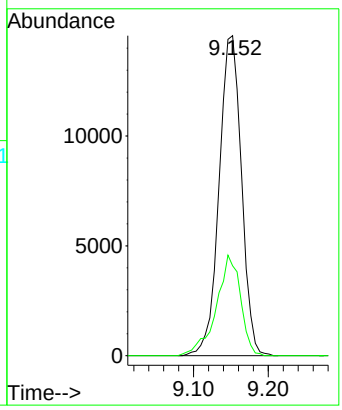


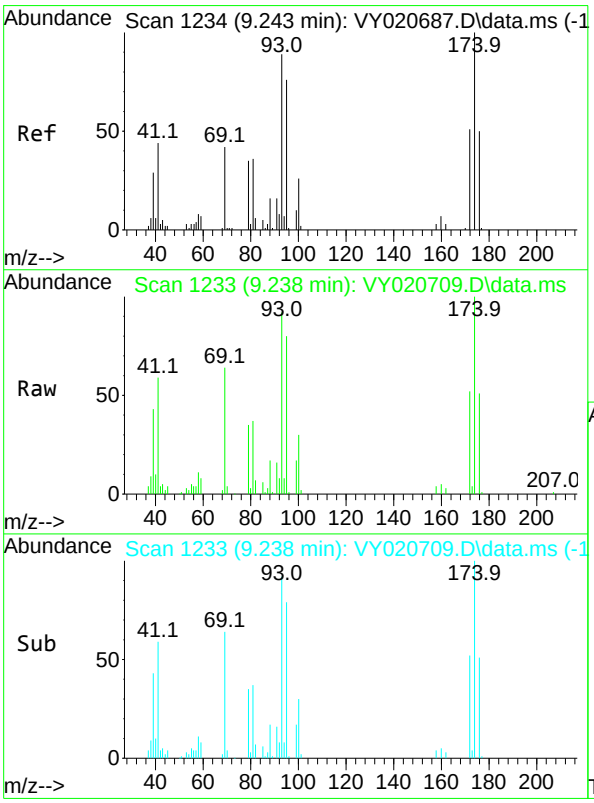

#45
1,2-Dichloropropane
Concen: 52.749 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 63 Resp: 30307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 28.1 | 24.6 | 36.8 |

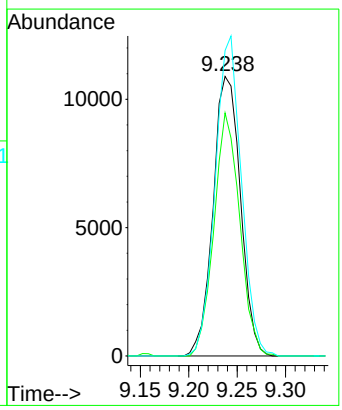


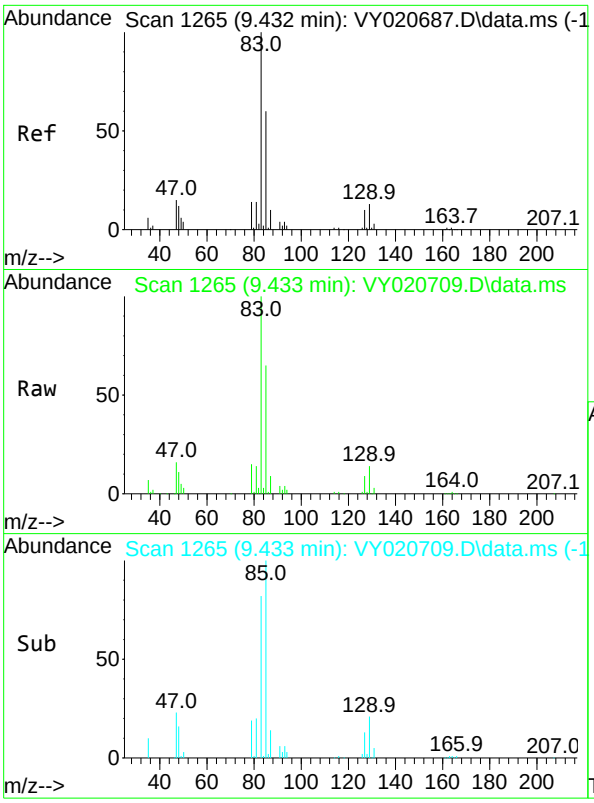




#46
Dibromomethane
Concen: 53.969 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 93 Resp: 21455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.8 | 67.8 | 101.8 |
| 174 | 109.4 | 89.4 | 134.0 |



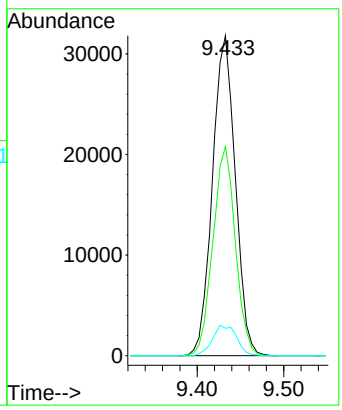


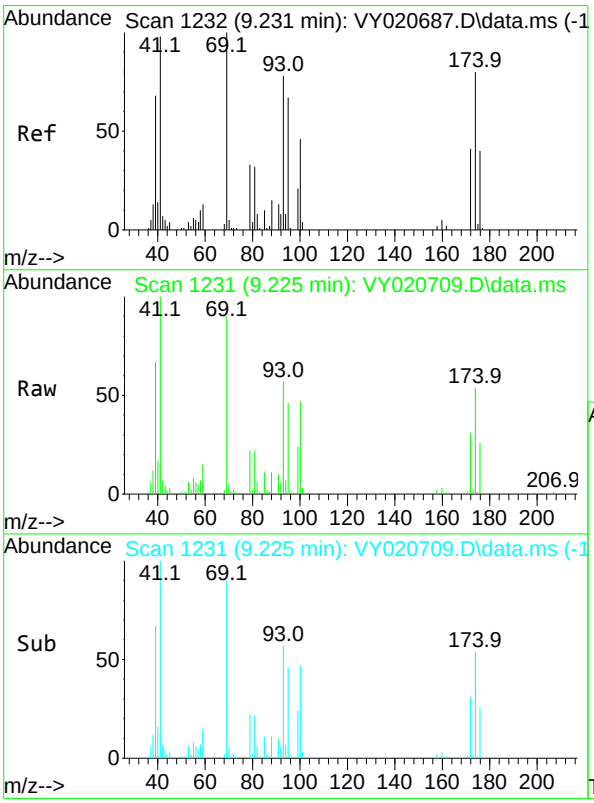

#47
Bromodichloromethane
Concen: 51.714 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 58285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.4 | 47.6 | 71.4 |
| 127 | 8.6 | 7.9 | 11.9 |

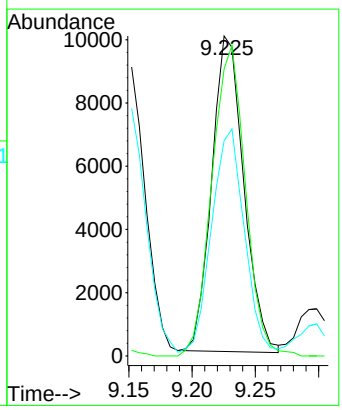


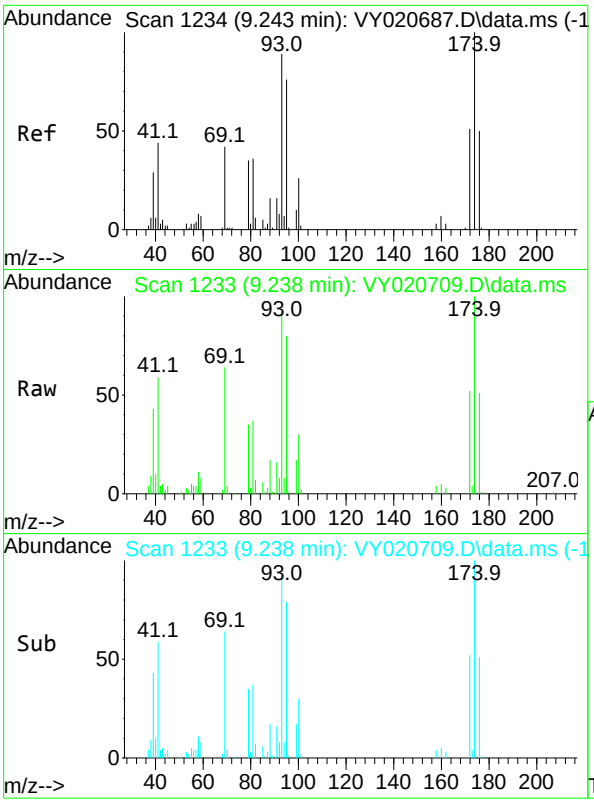




#48
Methyl methacrylate
Concen: 54.863 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 41 Resp: 17575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 103.0 | 83.1 | 124.7 |
| 39 | 72.3 | 57.3 | 85.9 |



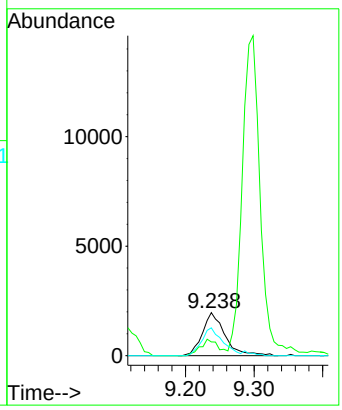


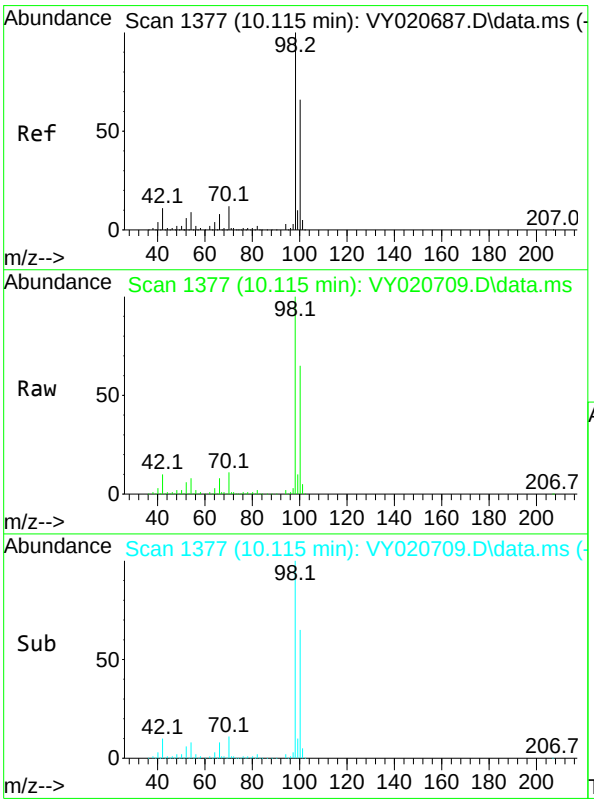

#49
1,4-Dioxane
Concen: 1194.426 ug/l
RT: 9.238 min Scan# 1
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 88 Resp: 4523

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 27.1 | 22.1 | 33.1 |
| 58 | 59.8 | 46.7 | 70.1 |

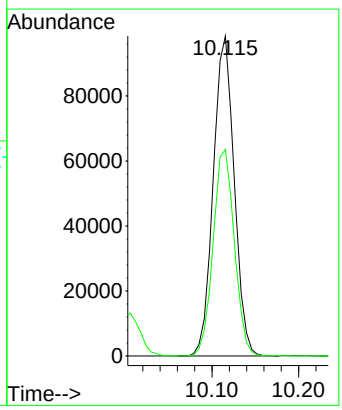


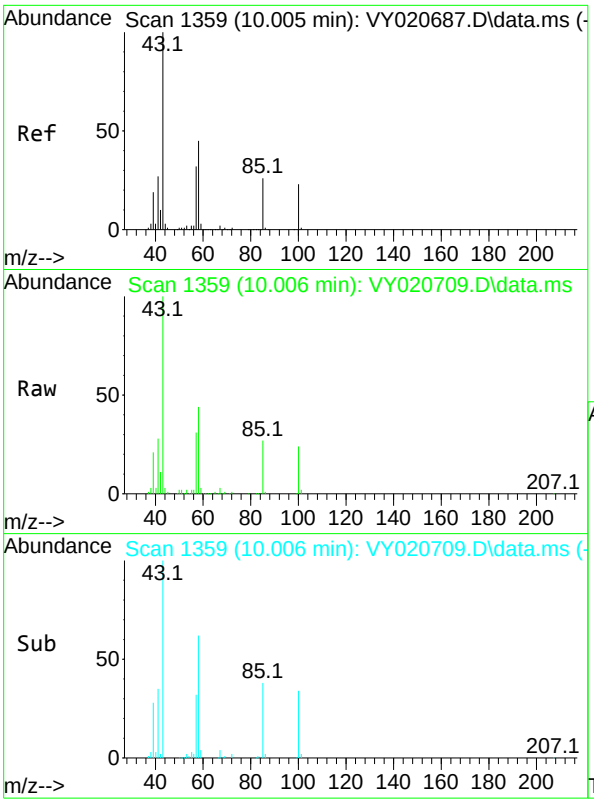




#50
Toluene-d8
Concen: 55.802 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 98 Resp: 165135

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.6 | 52.2 | 78.4 |



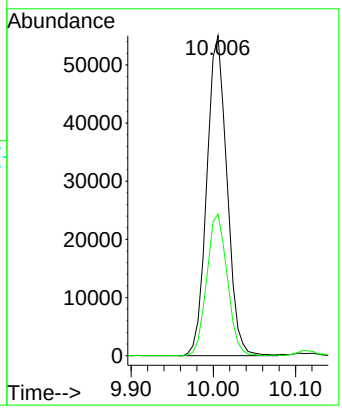


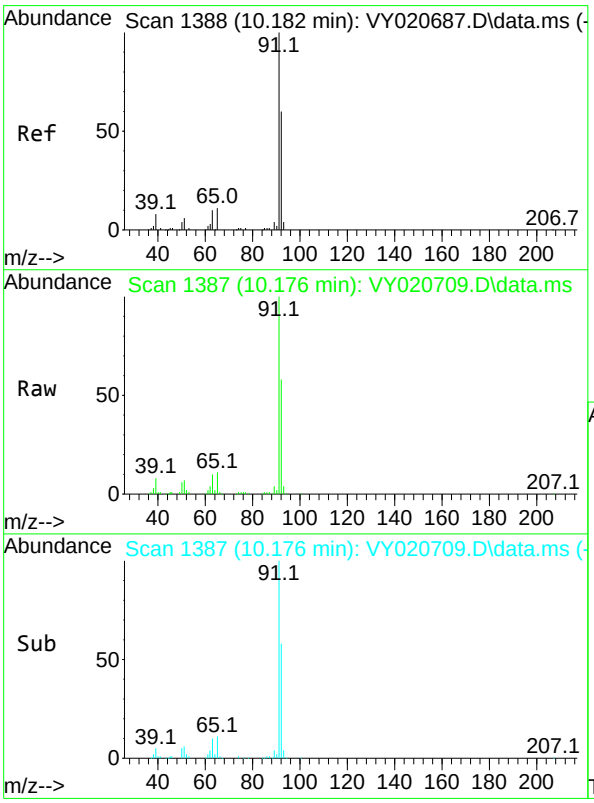

#51
4-Methyl-2-Pentanone
Concen: 283.711 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 93936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.8 | 35.1 | 52.7 |

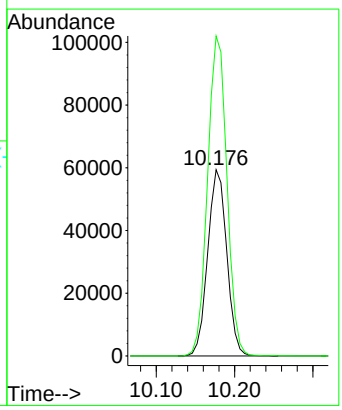


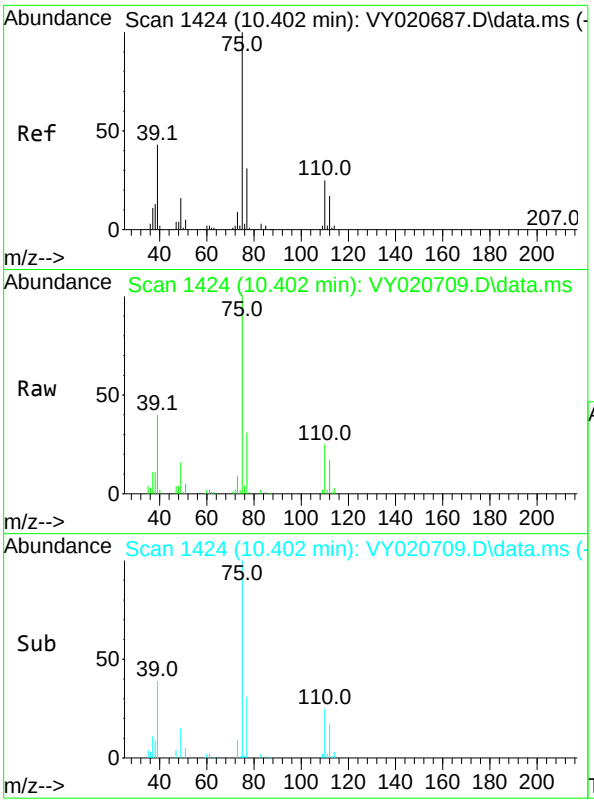




#52
Toluene
Concen: 51.531 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 92 Resp: 100248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 174.4 | 137.7 | 206.5 |



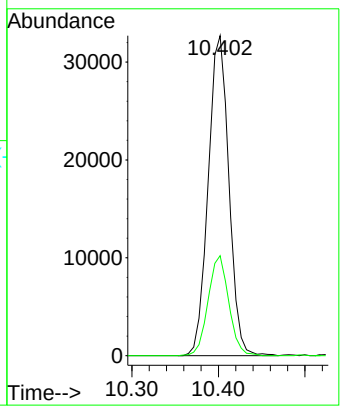


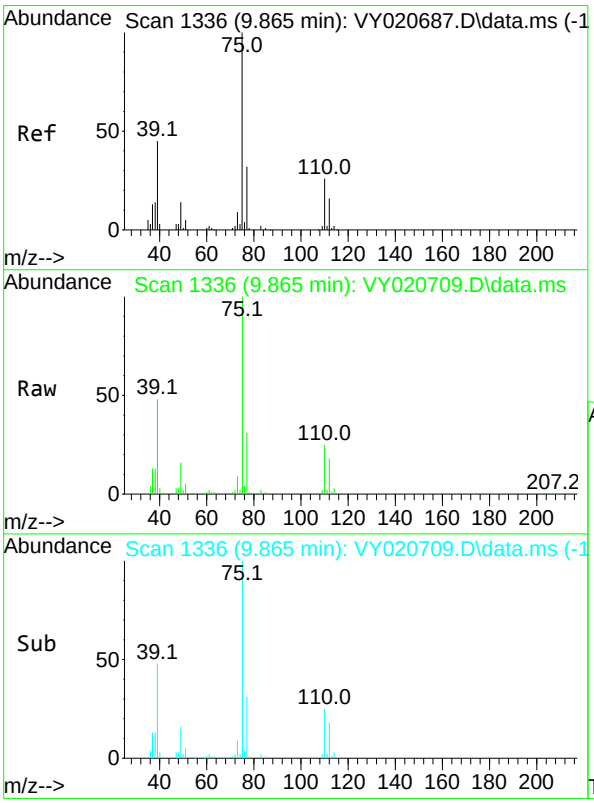

#53
t-1,3-Dichloropropene
Concen: 54.774 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 54221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.1 | 37.7 |

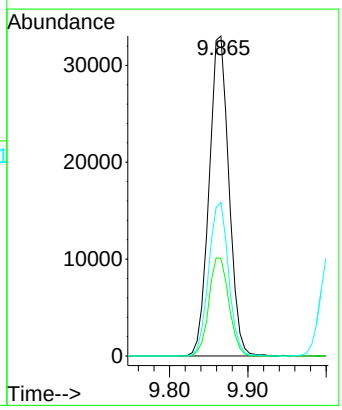


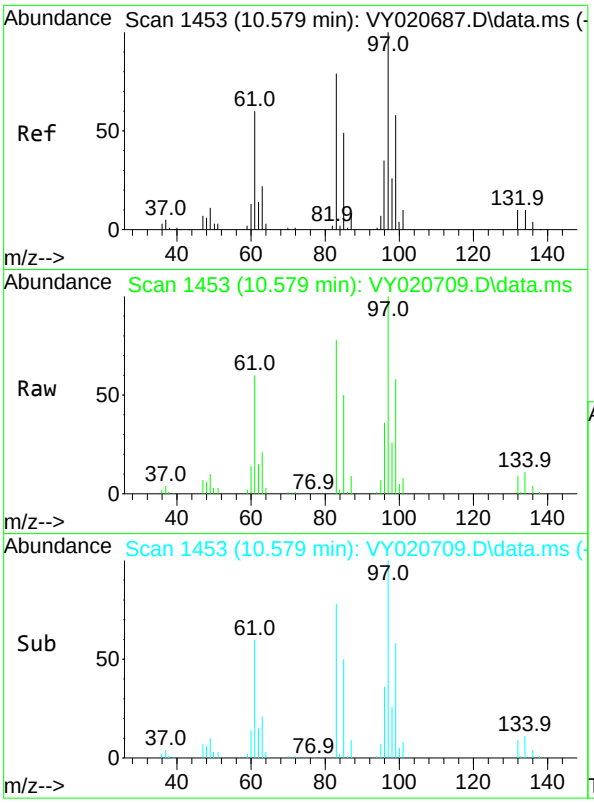




#54
cis-1,3-Dichloropropene
Concen: 53.316 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 75 Resp: 57850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.5 | 25.6 | 38.4 |
| 39 | 48.0 | 36.2 | 54.2 |



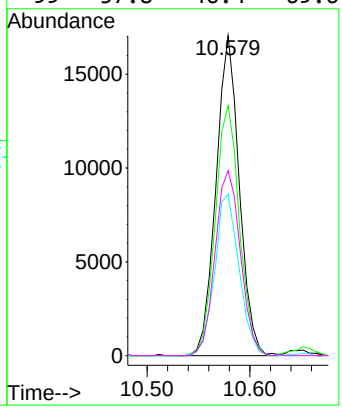


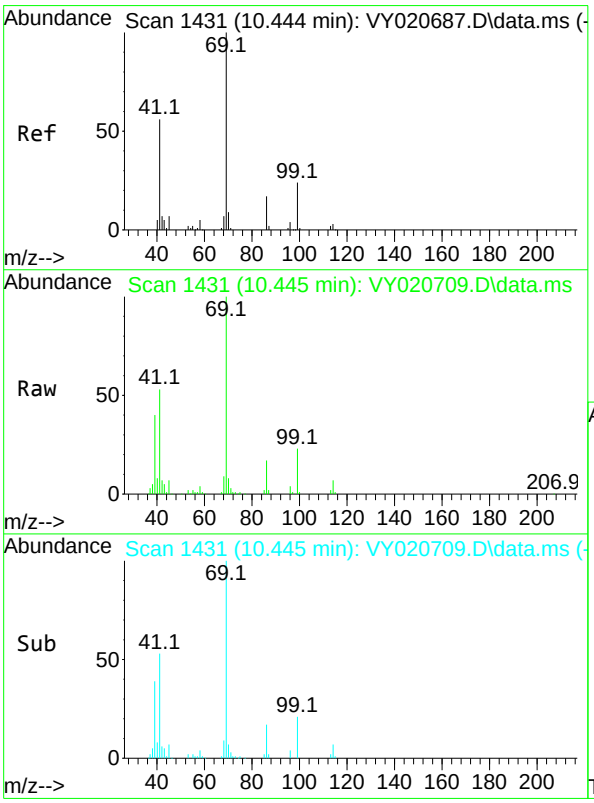

#55
1,1,2-Trichloroethane
Concen: 52.828 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 97 Resp: 26808

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 78.2 | 63.1 | 94.7 |
| 85 | 50.5 | 39.5 | 59.3 |
| 99 | 57.8 | 46.4 | 69.6 |

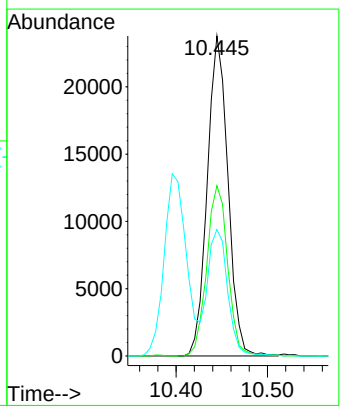


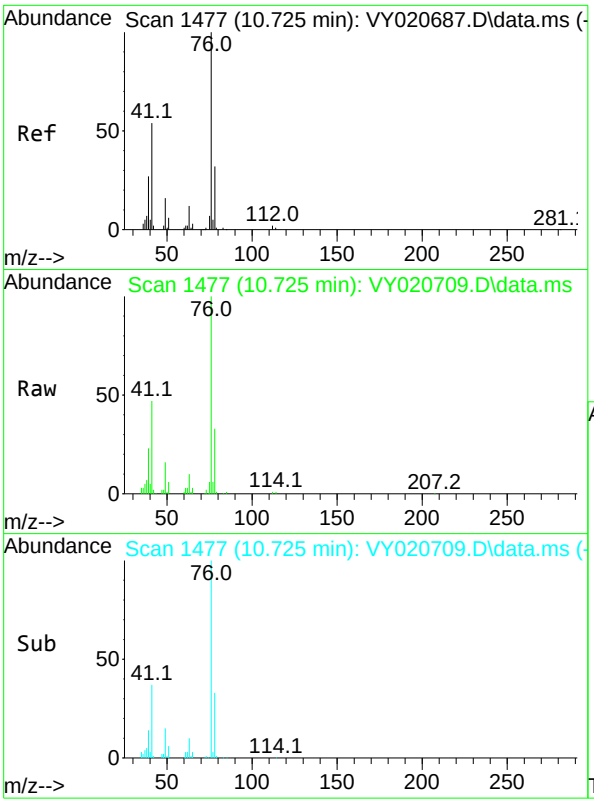




#56
Ethyl methacrylate
Concen: 56.020 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 69 Resp: 37346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 54.0 | 43.8 | 65.6 |
| 39 | 37.9 | 32.0 | 48.0 |



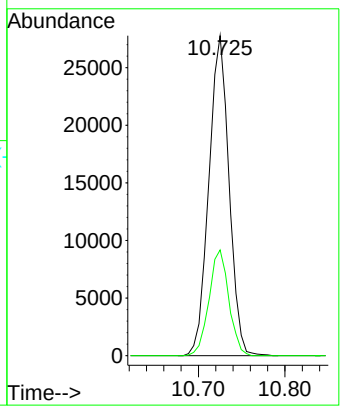


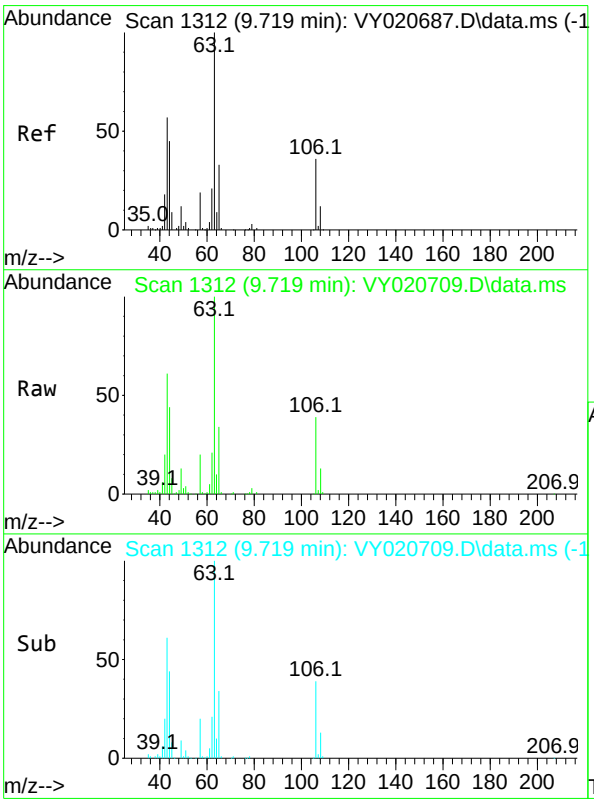

#57
1,3-Dichloropropane
Concen: 54.576 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 44949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 25.0 | 37.6 |

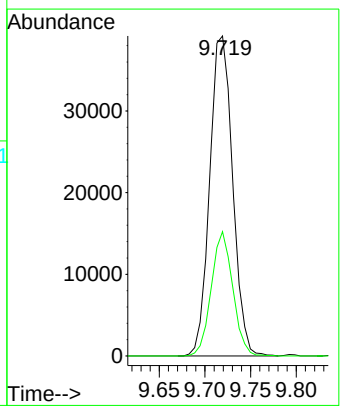


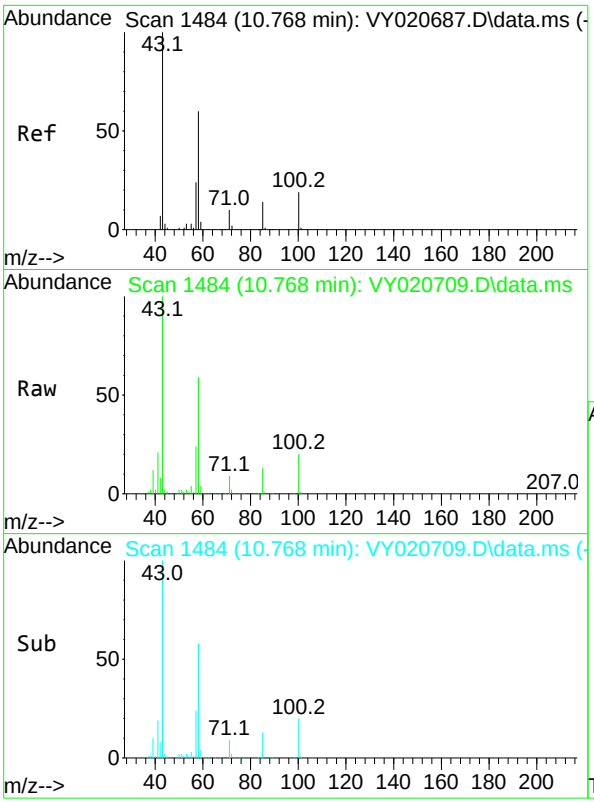




#58
2-Chloroethyl Vinyl ether
Concen: 294.122 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 63 Resp: 68375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 36.3 | 29.1 | 43.7 |



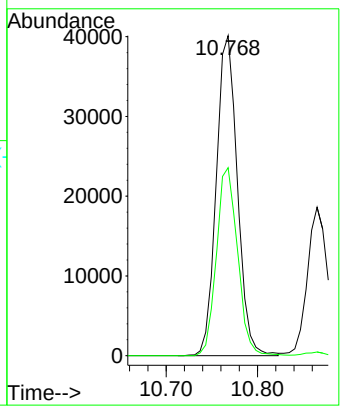


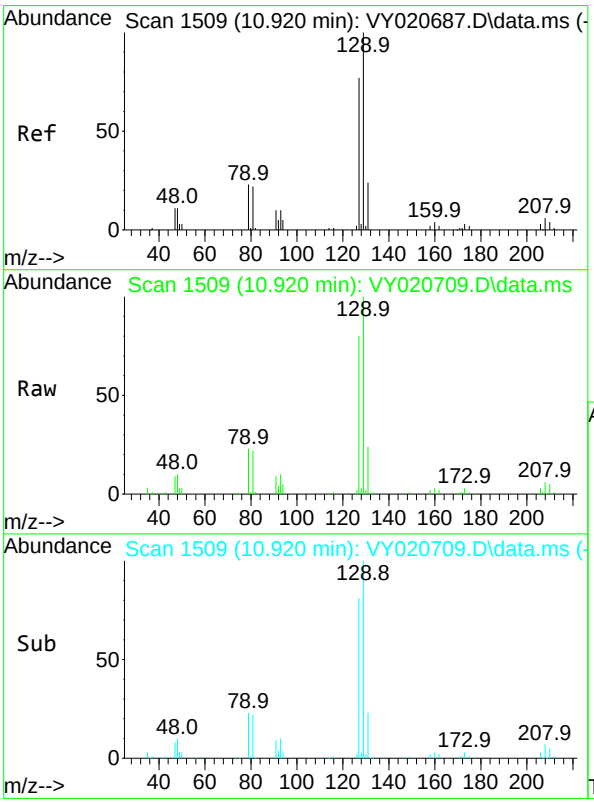

#59
2-Hexanone
Concen: 295.048 ug/l
RT: 10.768 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 64500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.8 | 30.1 | 90.5 |

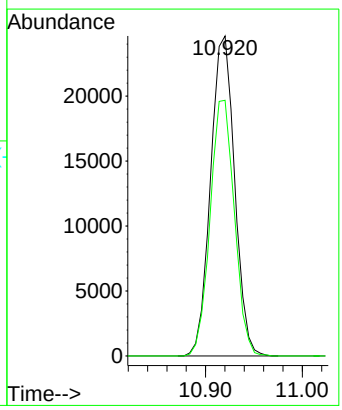


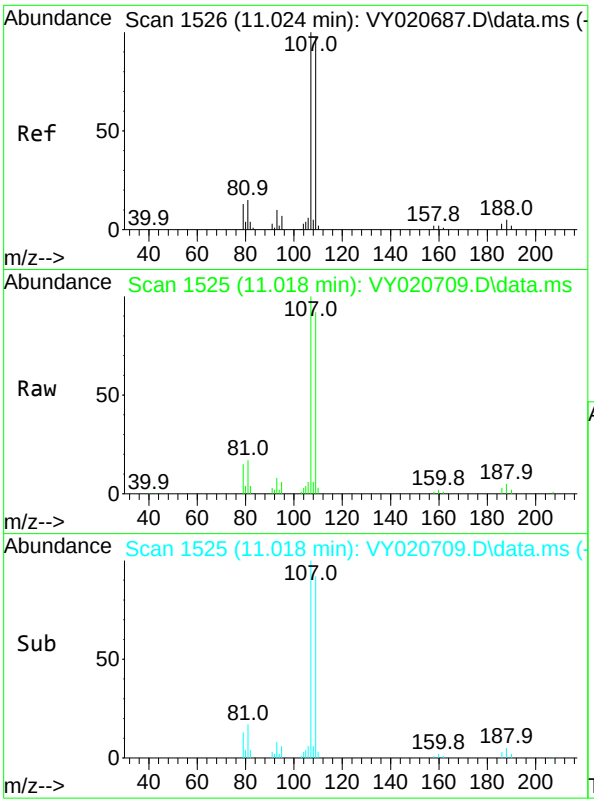




#60
Dibromochloromethane
Concen: 51.869 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:129 Resp: 42531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 80.7 | 38.5 | 115.5 |



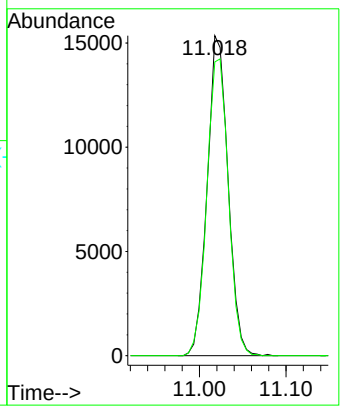


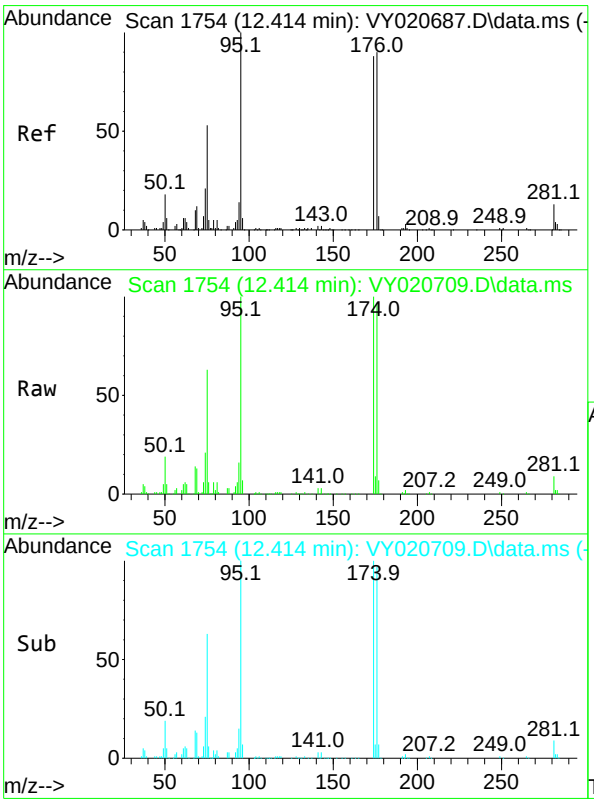

#61
1,2-Dibromoethane
Concen: 53.744 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:107 Resp: 25662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.2 | 75.5 | 113.3 |

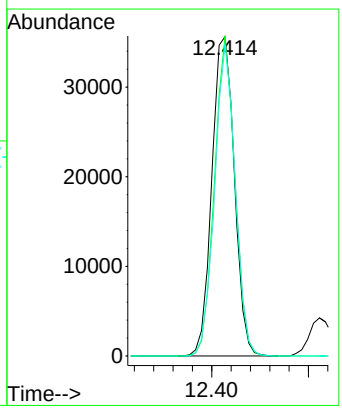


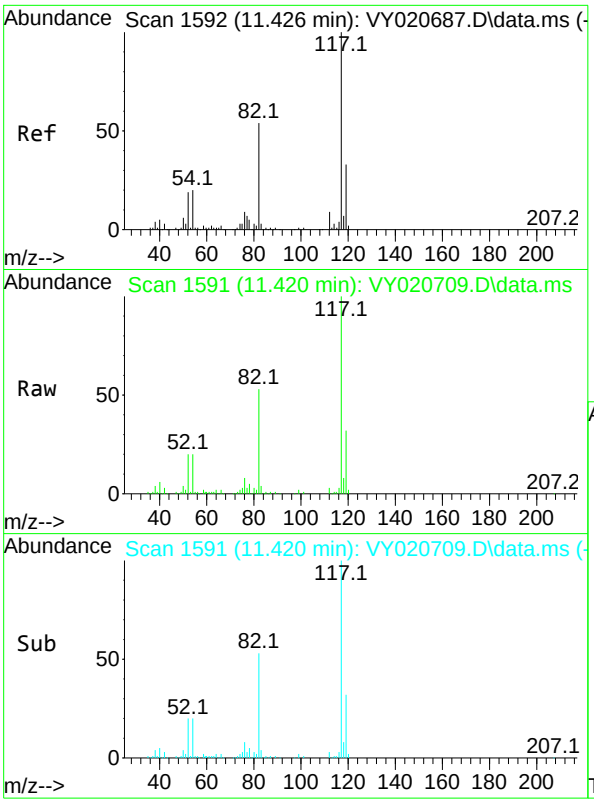




#62
4-Bromofluorobenzene
Concen: 58.248 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 95 Resp: 57393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.3 | 0.0 | 179.2 |
| 176 | 89.6 | 0.0 | 179.8 |



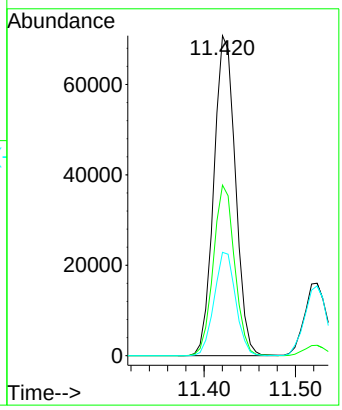


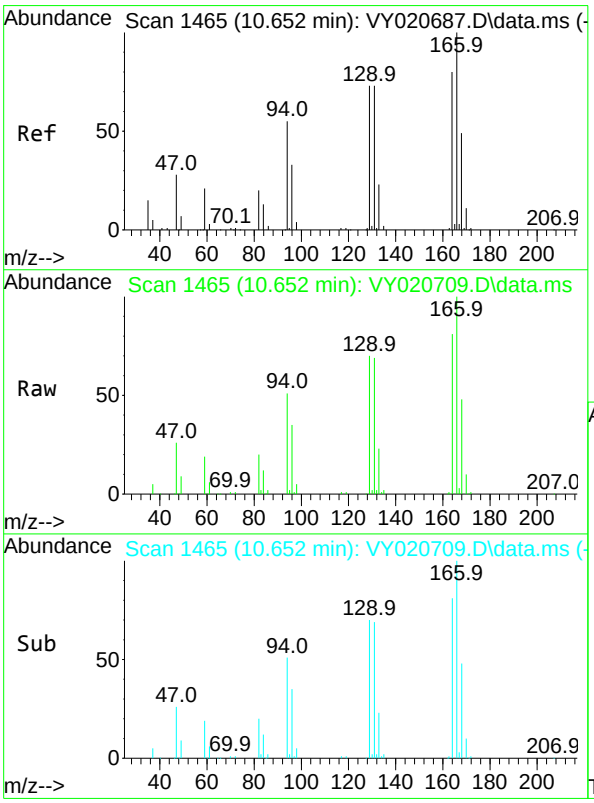

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:117 Resp: 116249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 53.3 | 43.4 | 65.2 |
| 119 | 32.3 | 26.6 | 39.8 |

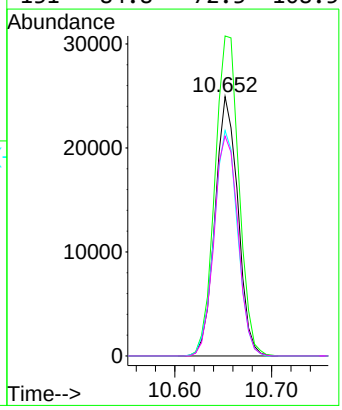


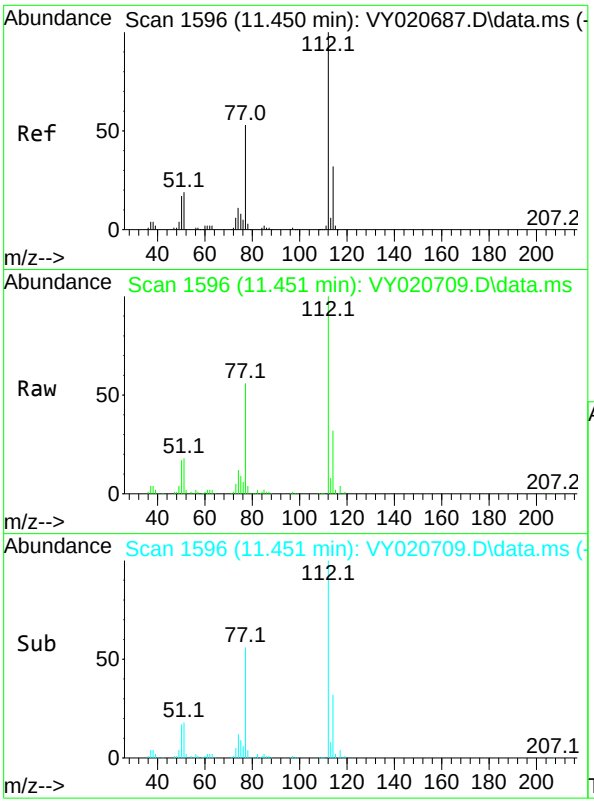




#64
Tetrachloroethene
Concen: 51.414 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:164 Resp: 40834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.3 | 99.6 | 149.4 |
| 129 | 86.9 | 73.0 | 109.4 |
| 131 | 84.8 | 72.3 | 108.5 |



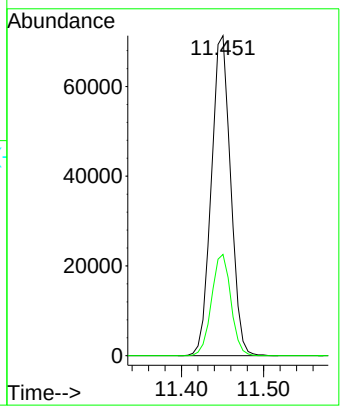


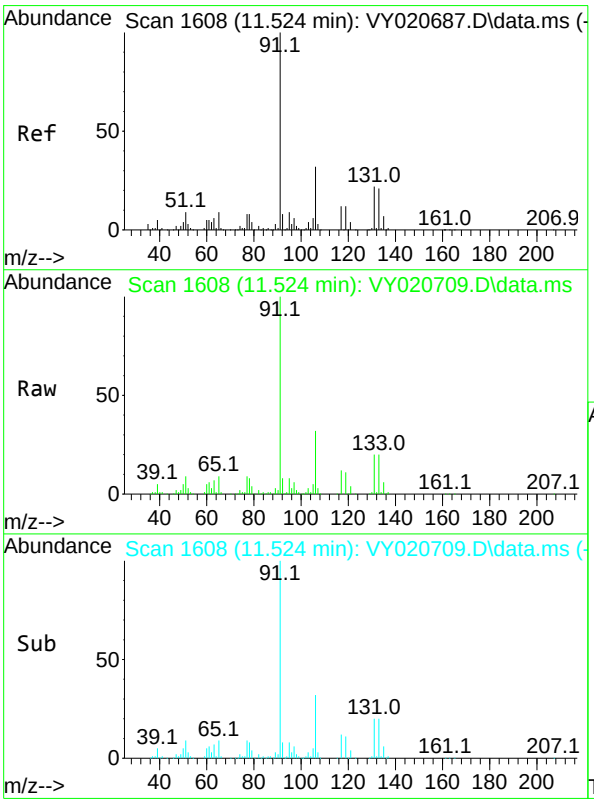

#65
Chlorobenzene
Concen: 51.151 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:112 Resp: 116432

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.6 | 25.4 | 38.0 |

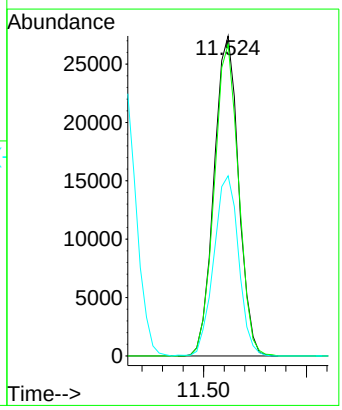


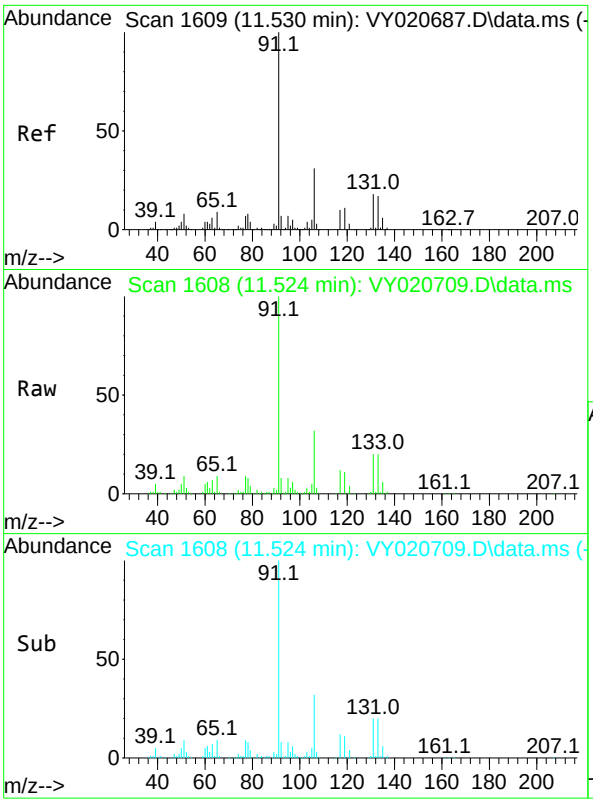




#66
1,1,1,2-Tetrachloroethane
Concen: 51.360 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:131 Resp: 45293

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.5 | 48.6 | 145.9 |
| 119 | 57.1 | 28.4 | 85.3 |



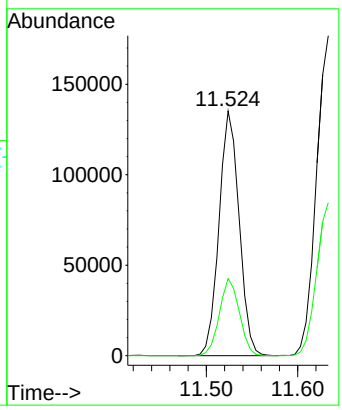


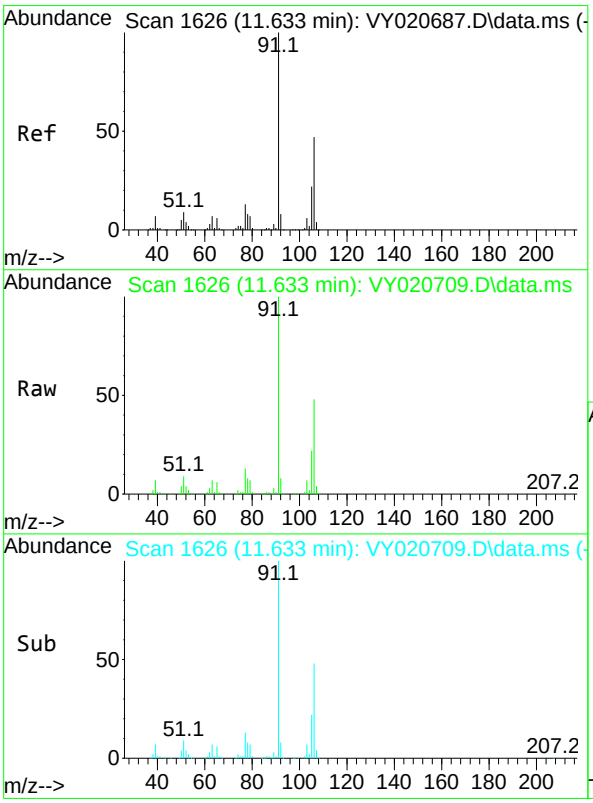

#67
Ethyl Benzene
Concen: 51.942 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 206644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.5 | 24.5 | 36.7 |

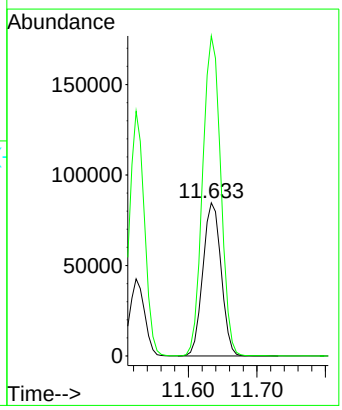


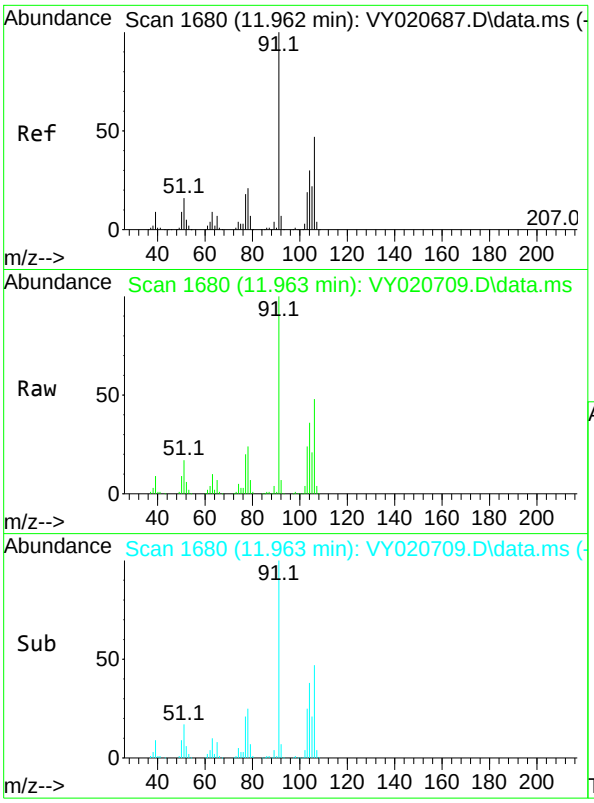




#68
m/p-Xylenes
Concen: 103.449 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:106 Resp: 156992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.9 | 166.6 | 250.0 |



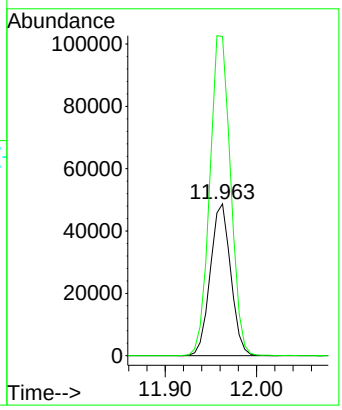


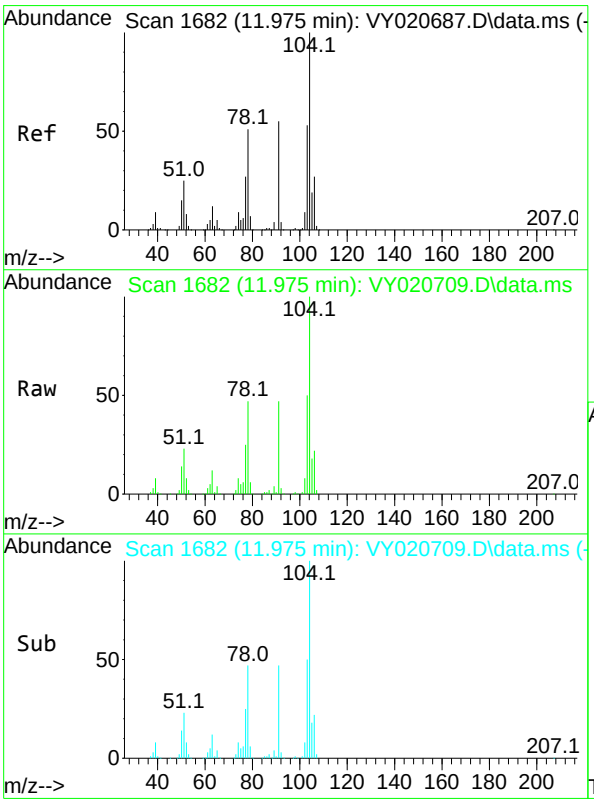

#69
o-Xylene
Concen: 52.115 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:106 Resp: 75564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 214.9 | 108.6 | 325.8 |

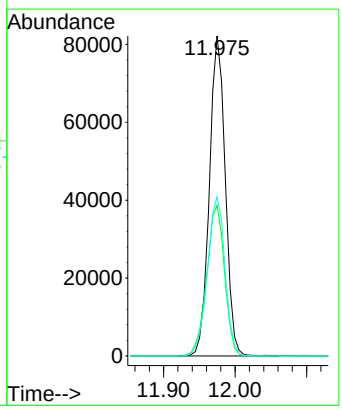


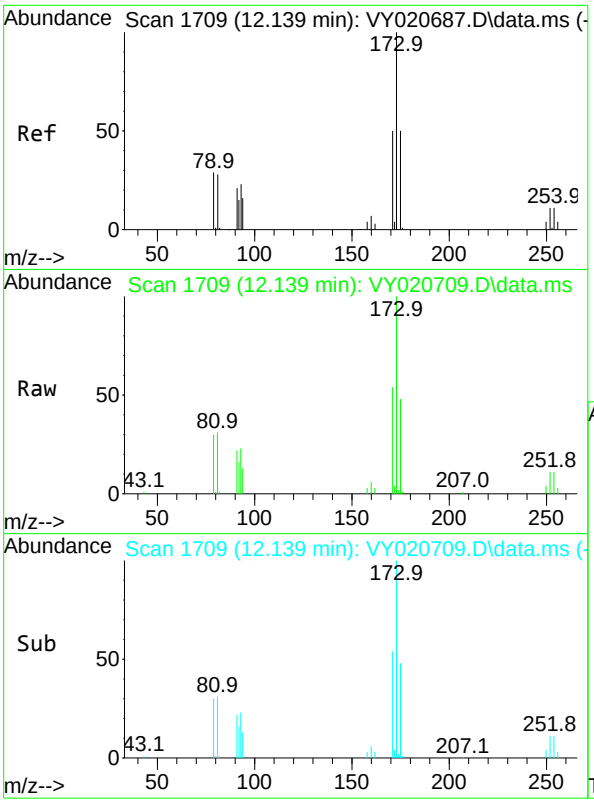




#70
Styrene
Concen: 52.061 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:104 Resp: 126718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.0 | 43.0 | 64.4 |
| 103 | 55.0 | 44.4 | 66.6 |



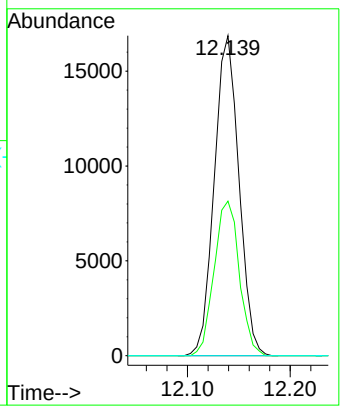


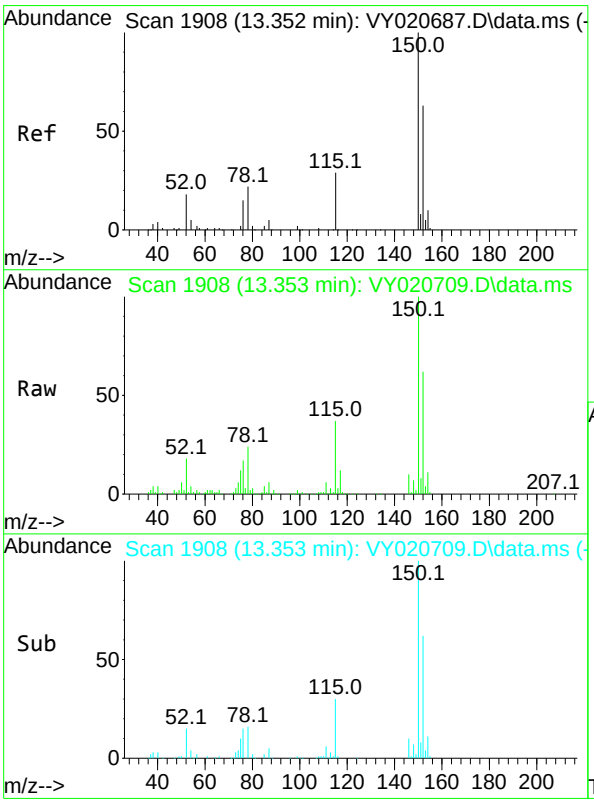

#71
Bromoform
Concen: 55.357 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:173 Resp: 28066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

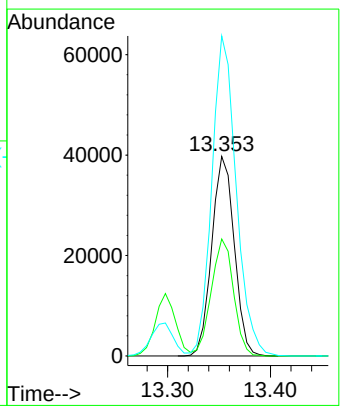


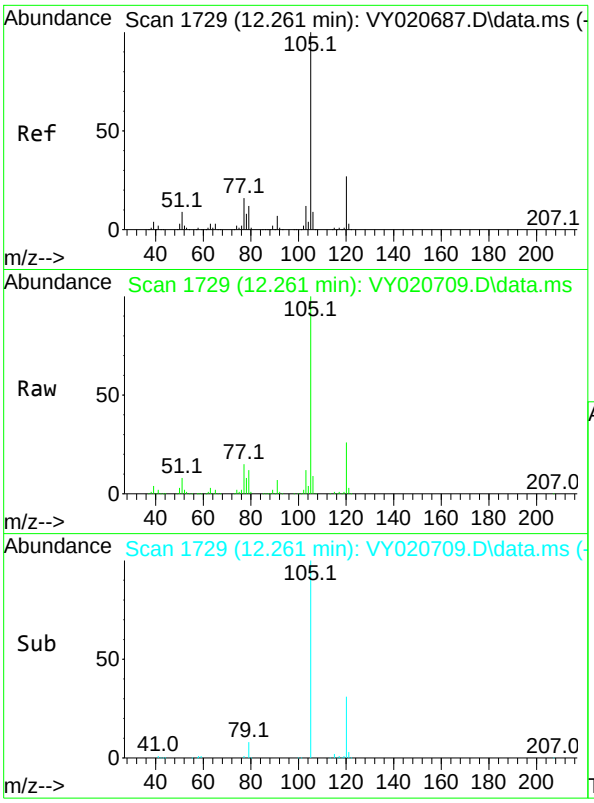




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:152 Resp: 60351

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.1 | 30.3 | 90.9 |
| 150 | 174.0 | 0.0 | 349.0 |



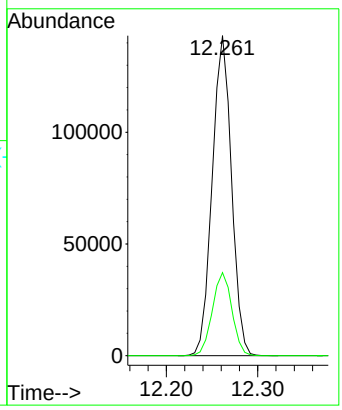


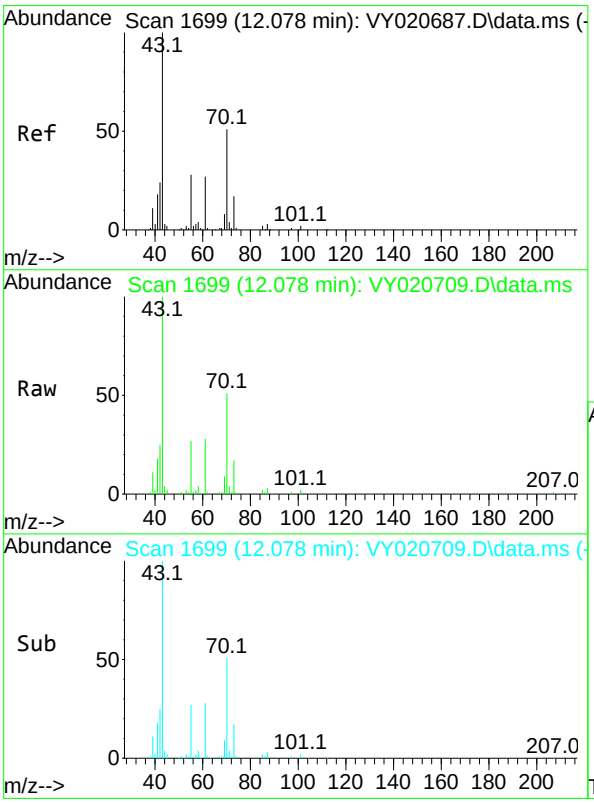

#73
Isopropylbenzene
Concen: 50.166 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 209755

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.3 | 39.9 |

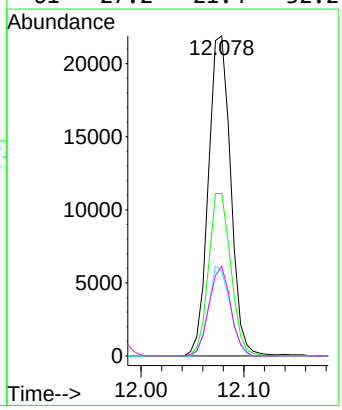


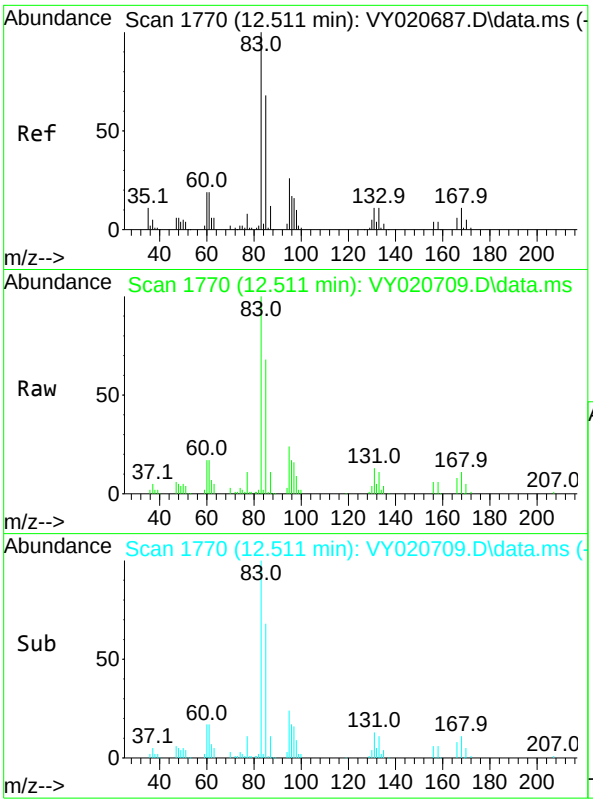




#74
N-amyl acetate
Concen: 55.579 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 43 Resp: 33024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.7 | 39.7 | 59.5 |
| 55 | 27.1 | 21.5 | 32.3 |
| 61 | 27.2 | 21.4 | 32.2 |



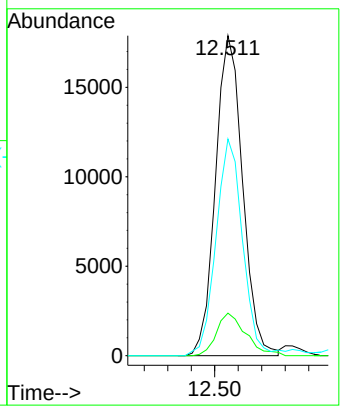


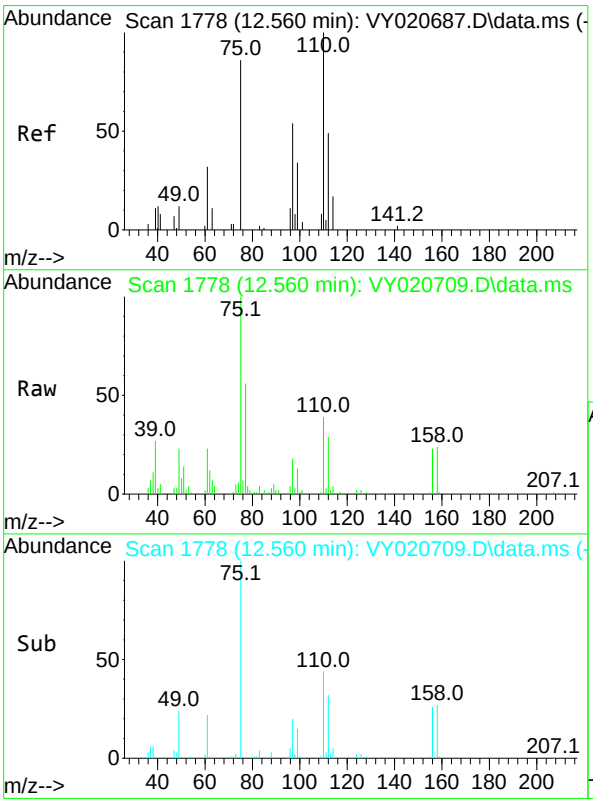

#75
1,1,2,2-Tetrachloroethane
Concen: 53.553 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 28705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.4 | 6.9 | 20.7 |
| 85 | 66.5 | 32.5 | 97.4 |

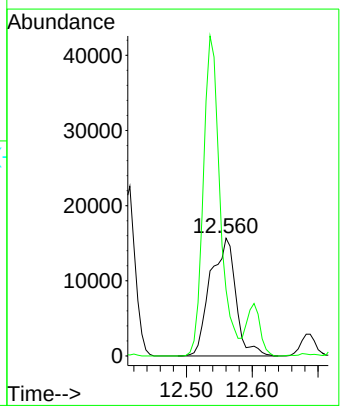


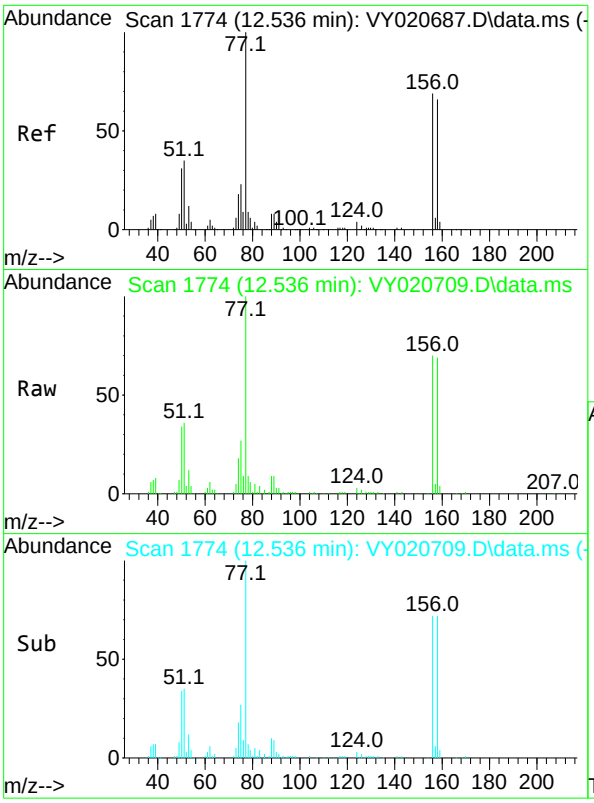




#76
1,2,3-Trichloropropane
Concen: 88.894 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 75 Resp: 42318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



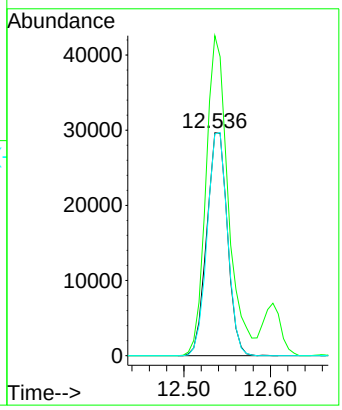


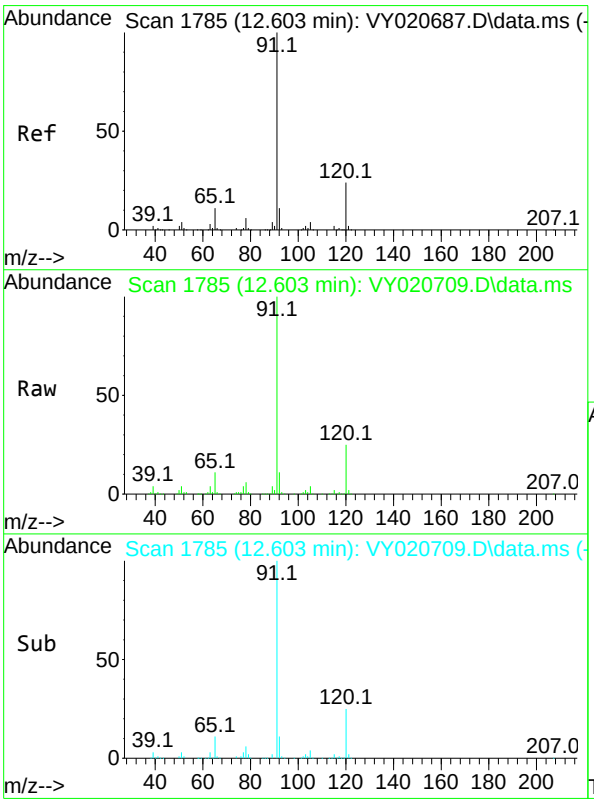

#77
Bromobenzene
Concen: 51.155 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:156 Resp: 49237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 153.5 | 78.3 | 235.0 |
| 158 | 98.2 | 48.3 | 144.9 |

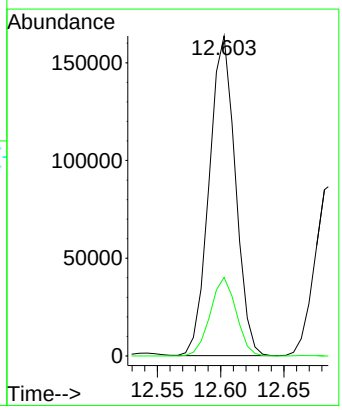


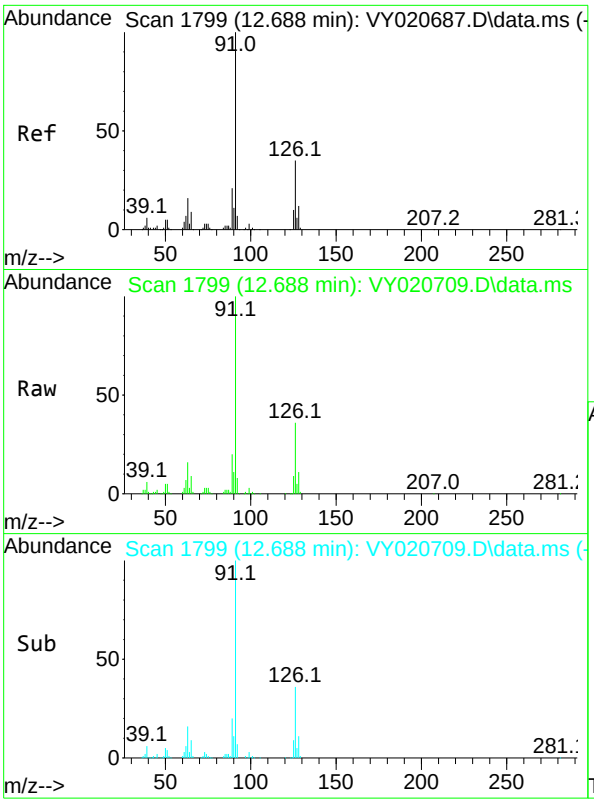




#78
n-propylbenzene
Concen: 50.173 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 91 Resp: 235128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.3 | 12.3 | 36.8 |



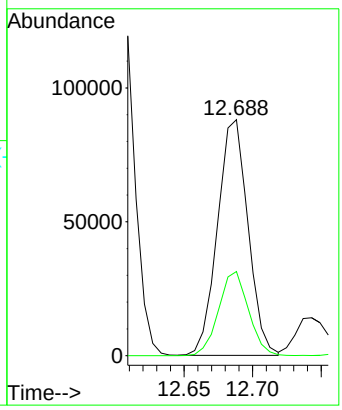


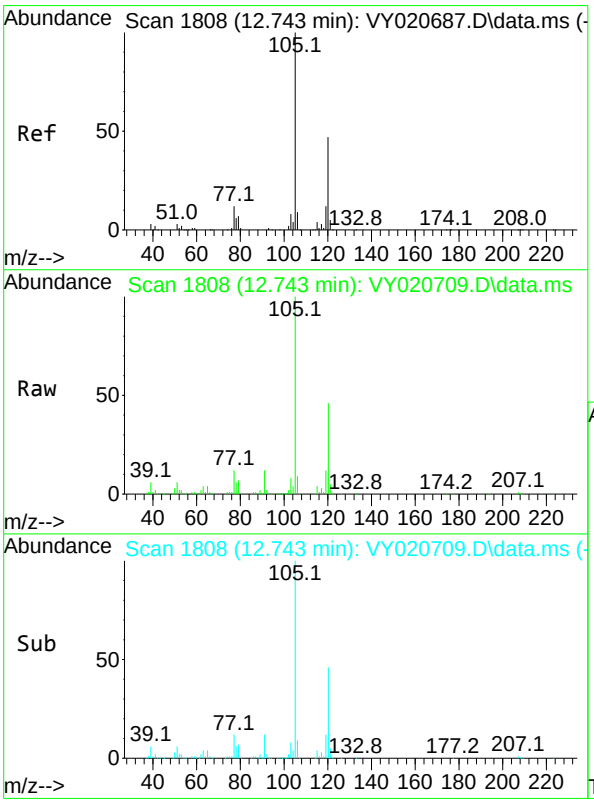

#79
2-Chlorotoluene
Concen: 51.012 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 136280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.8 | 53.3 |

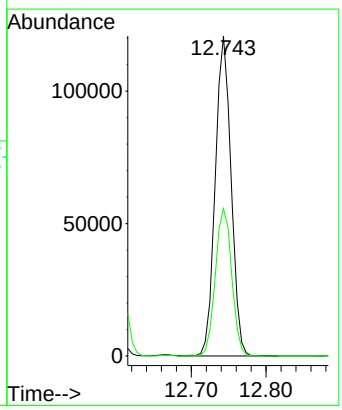


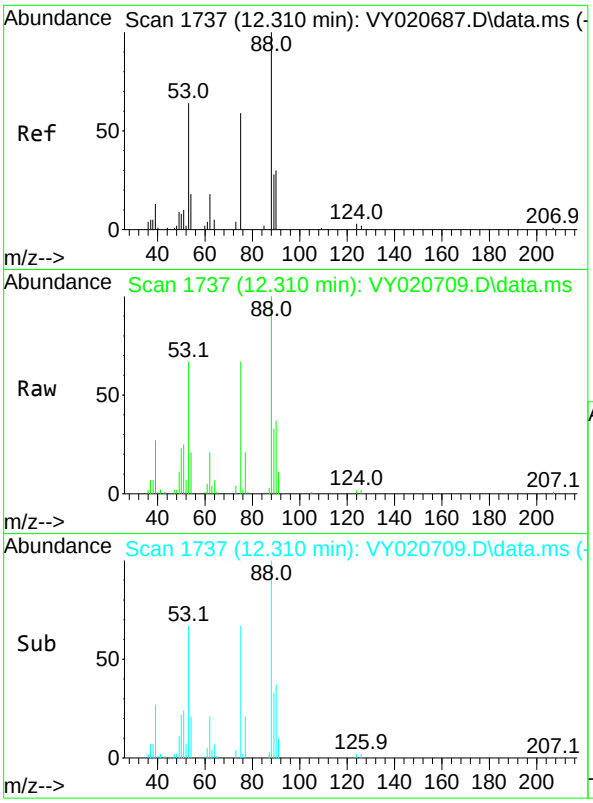




#80
1,3,5-Trimethylbenzene
Concen: 51.057 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:105 Resp: 177863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.5 | 23.9 | 71.7 |



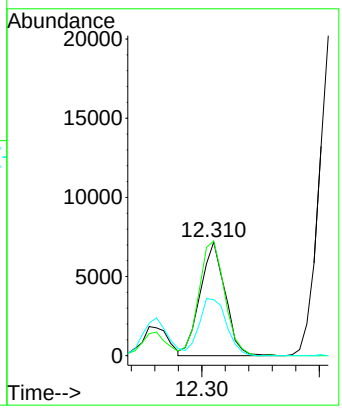


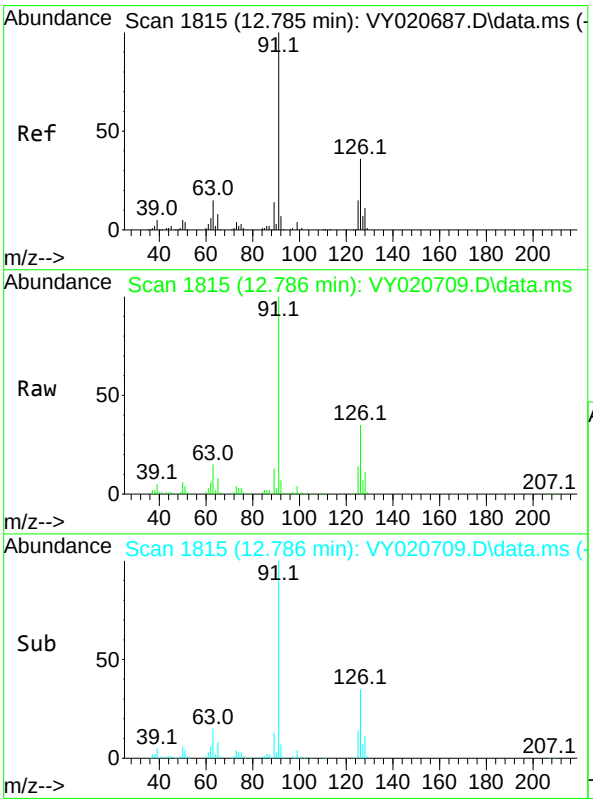

#81
trans-1,4-Dichloro-2-butene
Concen: 54.534 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 10590

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 103.8 | 83.1 | 124.7 |
| 89 | 54.6 | 40.6 | 61.0 |

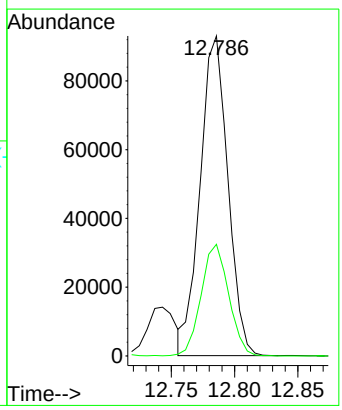


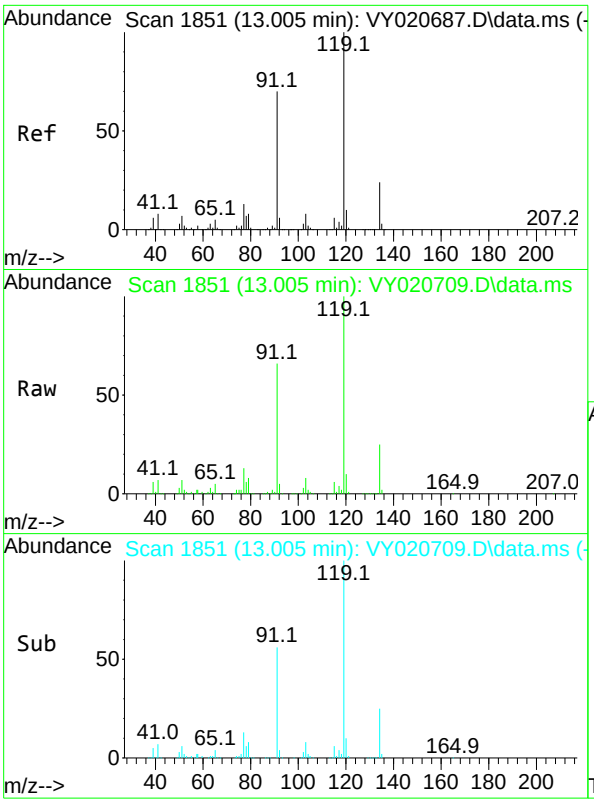




#82
4-Chlorotoluene
Concen: 51.241 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 91 Resp: 141476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 34.8 | 17.8 | 53.5 |



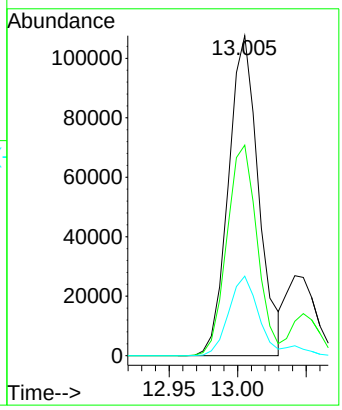


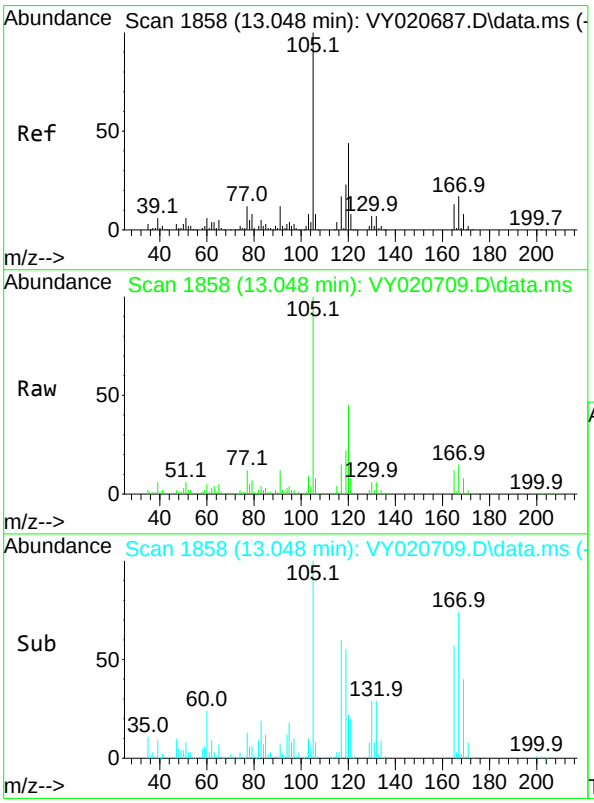

#83
tert-Butylbenzene
Concen: 50.596 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:119 Resp: 164603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.1 | 33.6 | 100.8 |
| 134 | 26.6 | 13.4 | 40.2 |

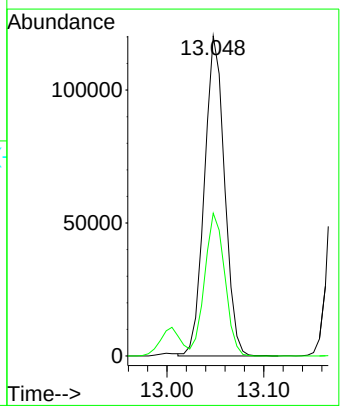


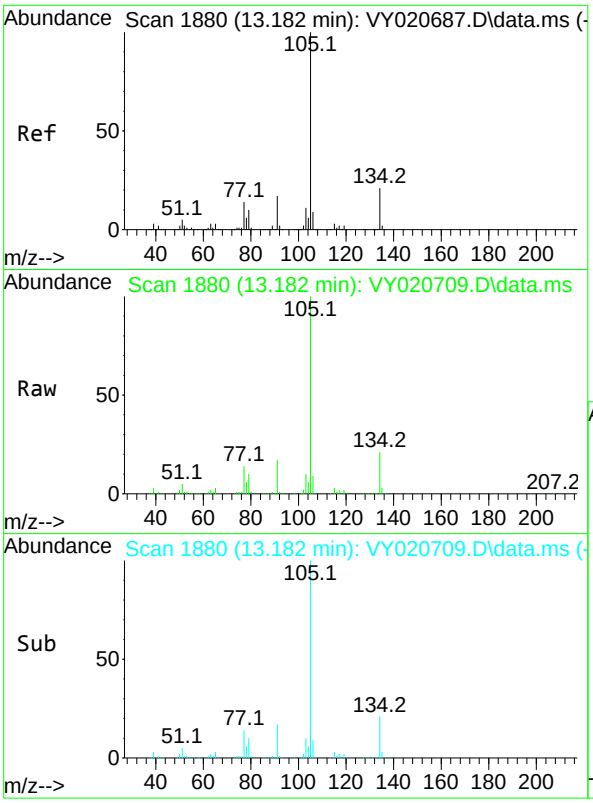




#84
1,2,4-Trimethylbenzene
Concen: 51.423 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:105 Resp: 174321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 21.8 | 65.3 |



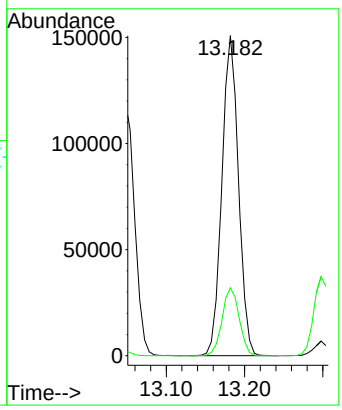


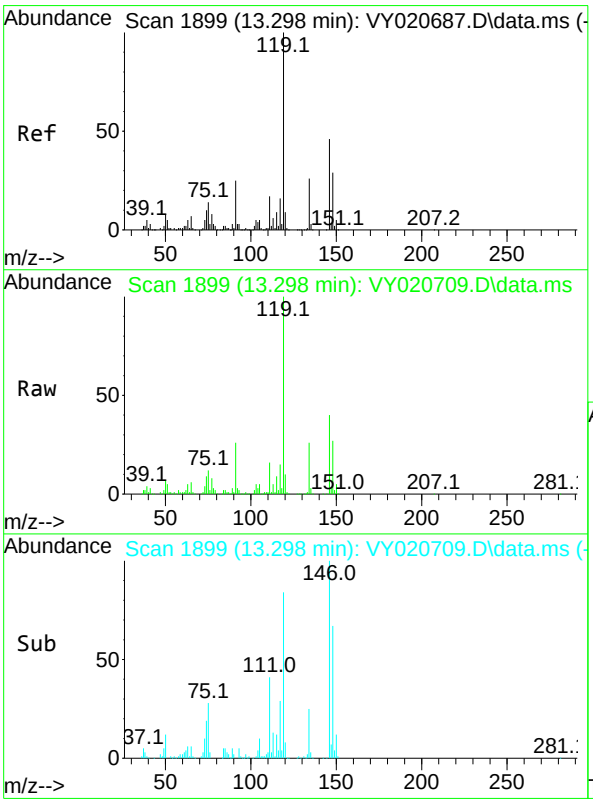

#85
sec-Butylbenzene
Concen: 50.603 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 221870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.8 | 10.7 | 32.1 |

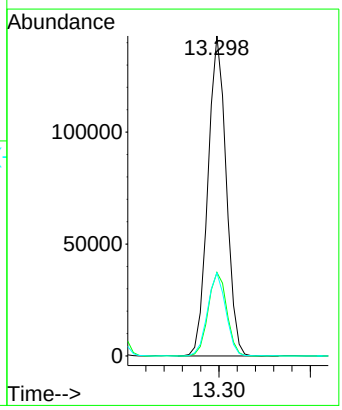


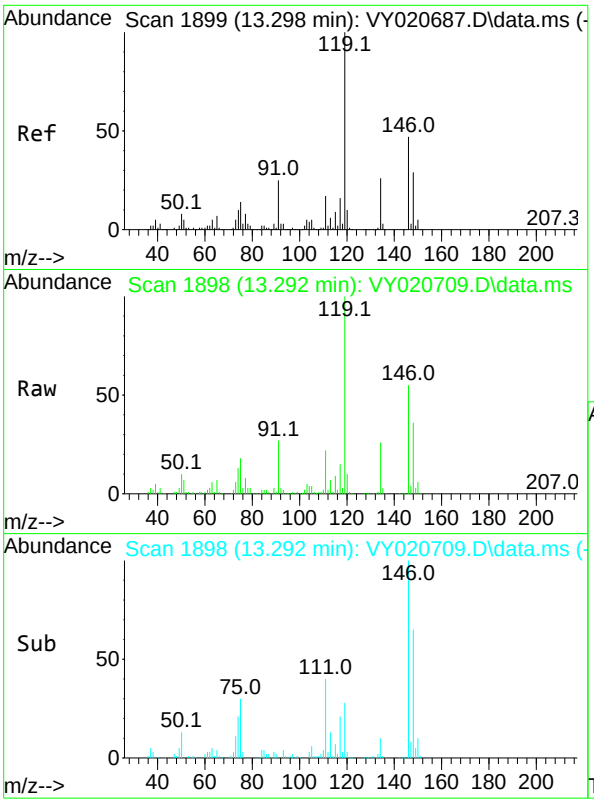




#86
p-Isopropyltoluene
Concen: 50.891 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:119 Resp: 198854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.4 | 40.2 |
| 91 | 25.8 | 12.9 | 38.6 |



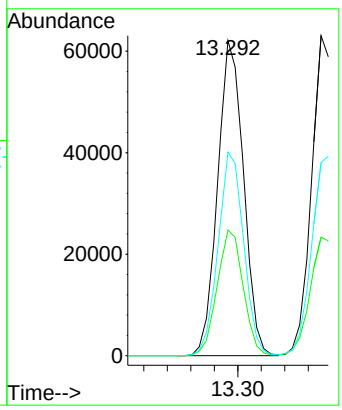


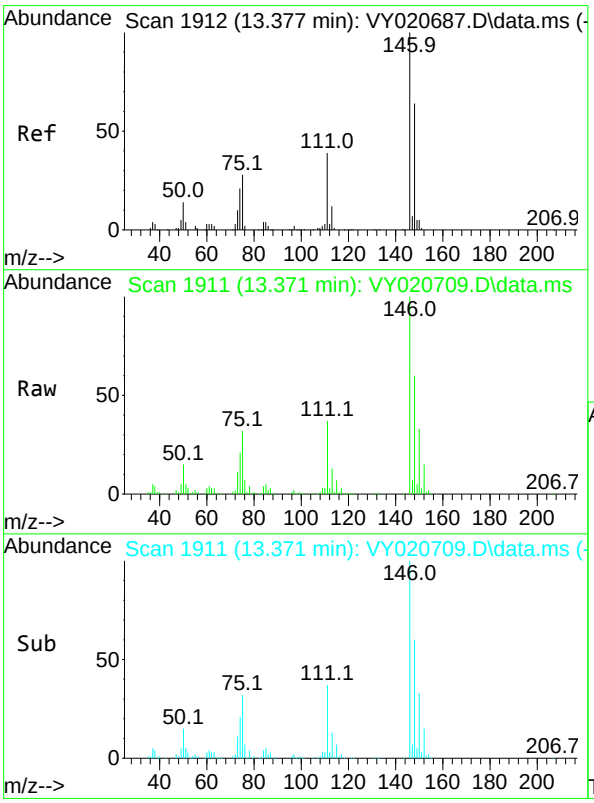

#87
1,3-Dichlorobenzene
Concen: 50.631 ug/l
RT: 13.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 95245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.0 | 19.3 | 57.8 |
| 148 | 63.9 | 31.1 | 93.5 |

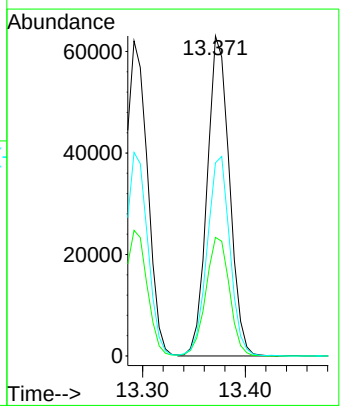


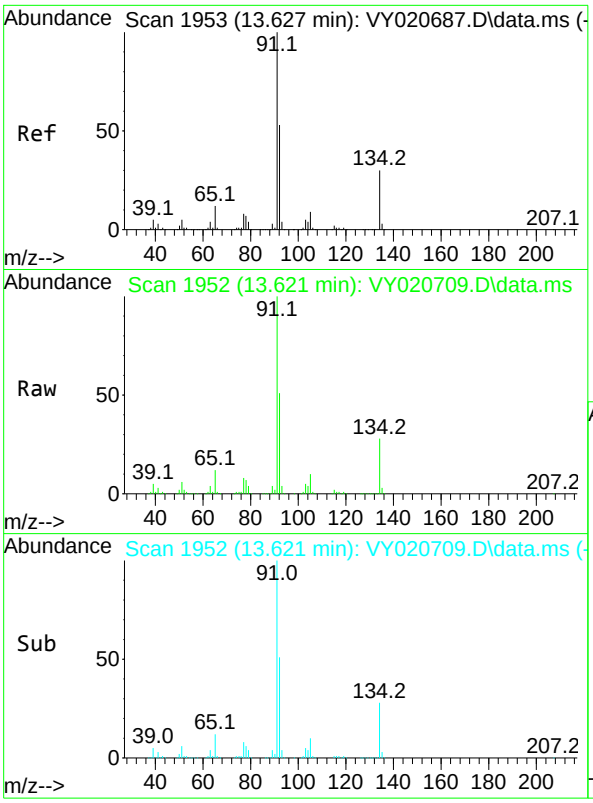




#88
1,4-Dichlorobenzene
Concen: 50.694 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:146 Resp: 94865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.7 | 59.0 |
| 148 | 63.8 | 32.8 | 98.3 |



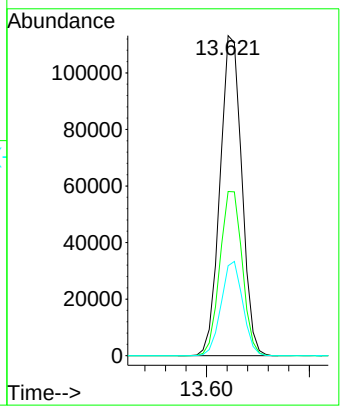


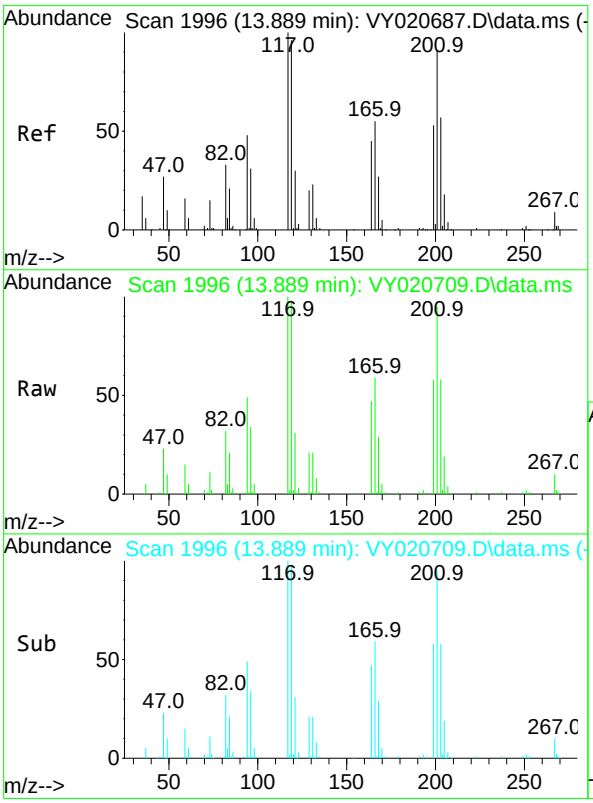

#89
n-Butylbenzene
Concen: 51.010 ug/l
RT: 13.621 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 166380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.7 | 26.1 | 78.2 |
| 134 | 29.3 | 14.8 | 44.4 |

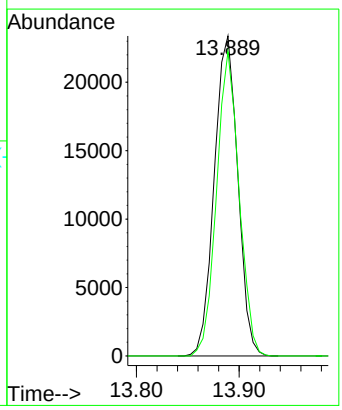


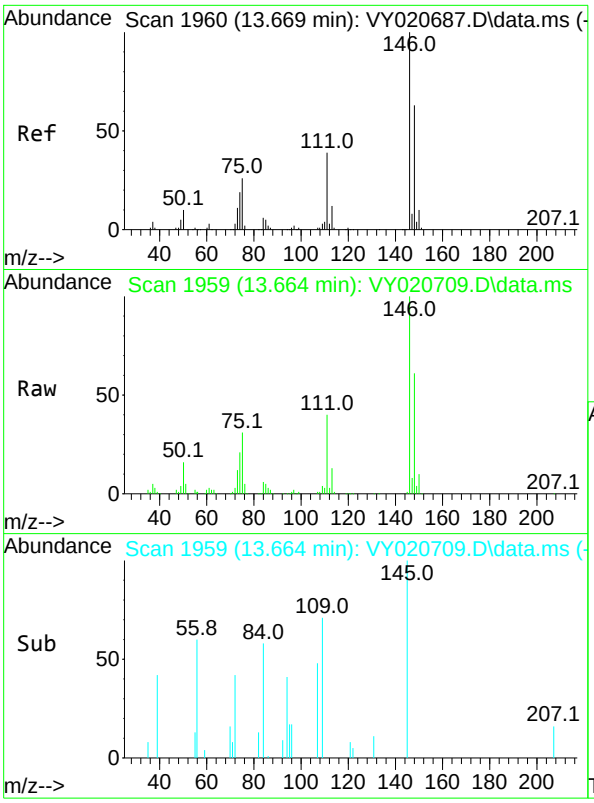




#90
Hexachloroethane
Concen: 50.005 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:117 Resp: 37154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 90.9 | 44.9 | 134.7 |



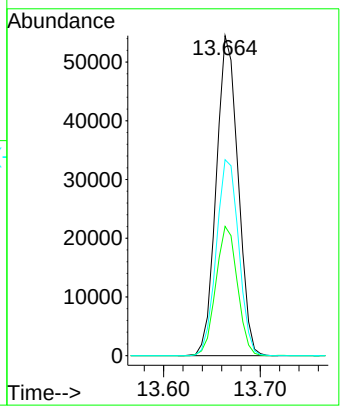


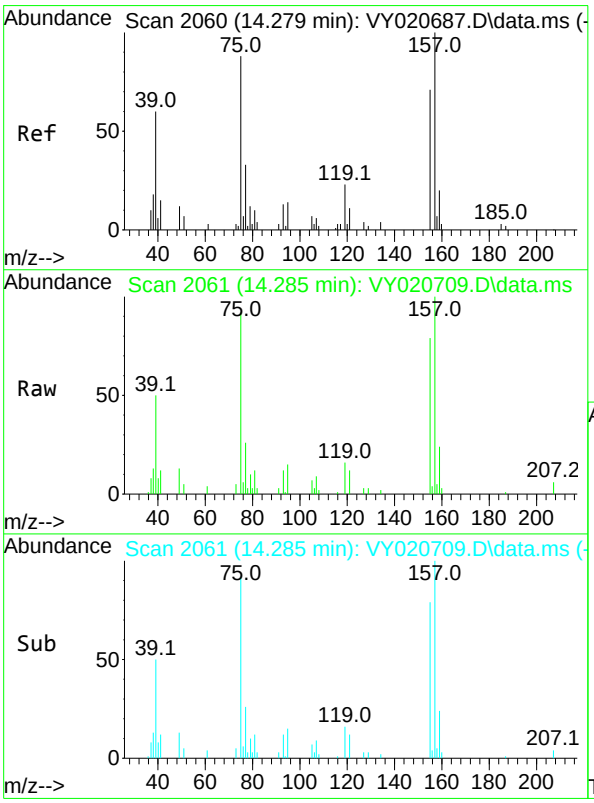

#91
1,2-Dichlorobenzene
Concen: 52.769 ug/l
RT: 13.664 min Scan# 1
Delta R.T. -0.005 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 85113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.1 | 20.3 | 60.8 |
| 148 | 63.0 | 31.9 | 95.5 |

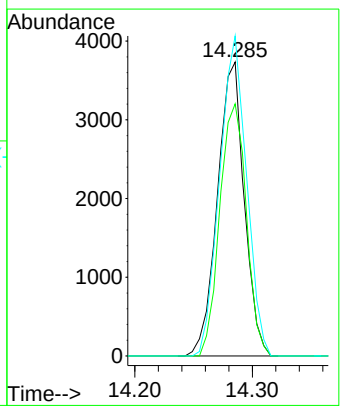


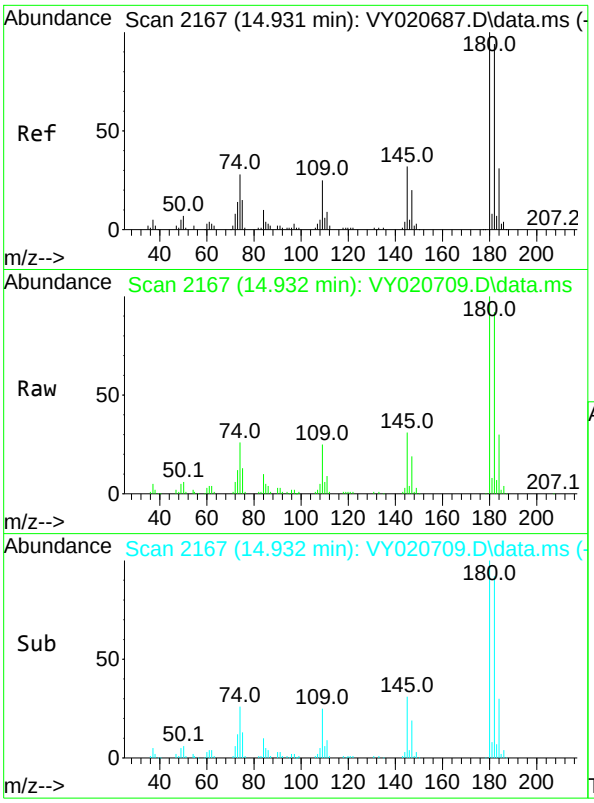




#92
1,2-Dibromo-3-Chloropropane
Concen: 56.916 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion: 75 Resp: 5917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 84.8 | 43.4 | 130.2 |
| 157 | 109.2 | 58.6 | 175.7 |



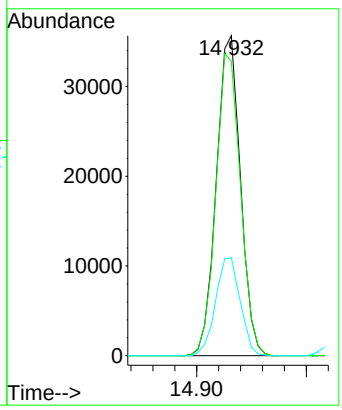


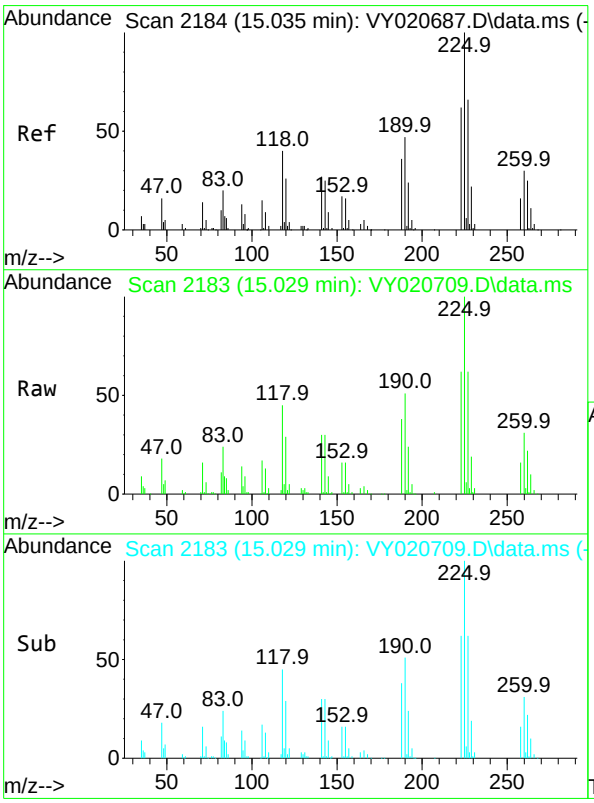

#93
1,2,4-Trichlorobenzene
Concen: 53.117 ug/l
RT: 14.932 min Scan# 21
Delta R.T. 0.001 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:180 Resp: 54457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.3 | 47.9 | 143.7 |
| 145 | 31.3 | 15.6 | 46.8 |

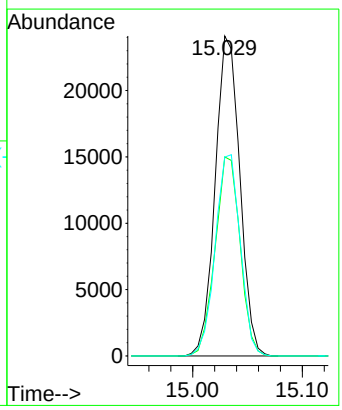


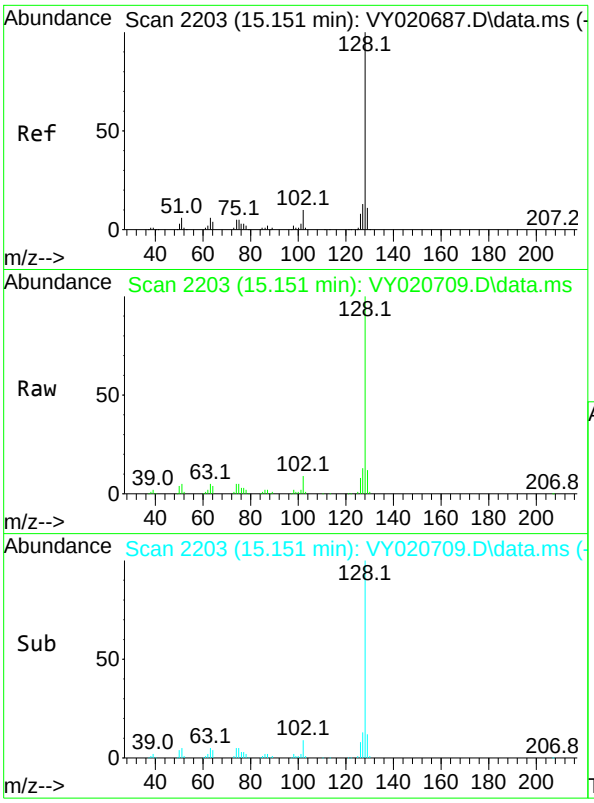




#94
Hexachlorobutadiene
Concen: 50.369 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:225 Resp: 37636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.1 | 31.3 | 93.8 |
| 227 | 63.9 | 32.1 | 96.5 |



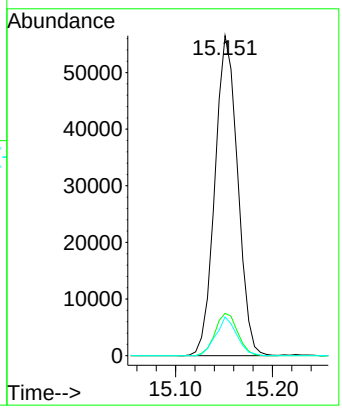


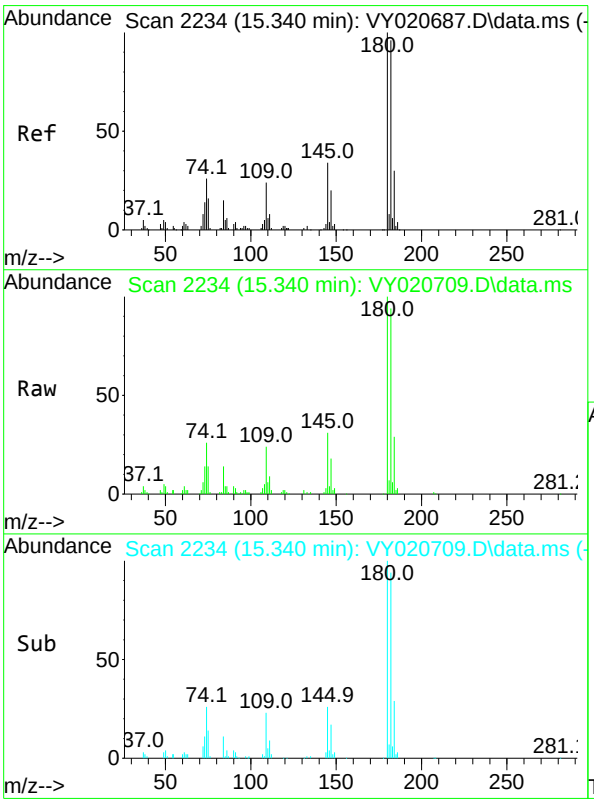

#95
Naphthalene
Concen: 56.177 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICCC050

Tgt Ion:128 Resp: 92244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.7 | 16.1 |
| 129 | 11.1 | 8.6 | 12.8 |

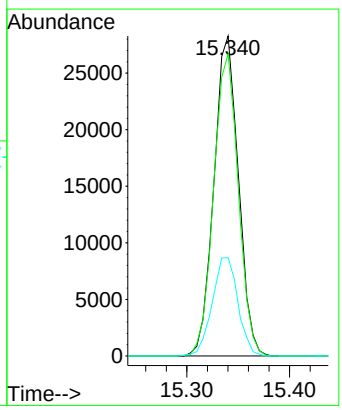



#96
1,2,3-Trichlorobenzene
Concen: 54.682 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020709.D
Acq: 26 Dec 2024 10:39

Tgt Ion:180 Resp: 46678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.0 | 47.4 | 142.2 |
| 145 | 32.3 | 16.7 | 50.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020710.D
Acq On : 26 Dec 2024 11:01
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Dec 26 16:06:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 114988 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.621 | 114 | 158039 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 137996 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 68495 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 149540 | 158.772 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 317.540%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 134770 | 154.819 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 309.640%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 518209 | 146.261 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 292.520%# | | | |
| 62) 4-Bromofluorobenzene | 12.413 | 95 | 176701 | 152.741 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 305.480%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 129832 | 143.447 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 50886 | 150.751 | ug/l | 94 |
| 4) Vinyl Chloride | 2.214 | 62 | 61386 | 146.779 | ug/l | 100 |
| 5) Bromomethane | 2.598 | 94 | 46855 | 148.385 | ug/l | 93 |
| 6) Chloroethane | 2.744 | 64 | 38539 | 153.610 | ug/l | 92 |
| 7) Trichlorofluoromethane | 3.067 | 101 | 237769 | 147.839 | ug/l | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 58291 | 152.312 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.829 | 101 | 129702 | 146.898 | ug/l | 98 |
| 10) Methyl Iodide | 4.012 | 142 | 153490 | 158.974 | ug/l | 98 |
| 11) Tert butyl alcohol | 4.878 | 59 | 42318 | 761.366 | ug/l # | 78 |
| 12) 1,1-Dichloroethene | 3.805 | 96 | 117146 | 149.063 | ug/l | 100 |
| 13) Acrolein | 3.665 | 56 | 9943 | 505.005 | ug/l | 97 |
| 14) Allyl chloride | 4.396 | 41 | 139044 | 151.192 | ug/l | 97 |
| 15) Acrylonitrile | 5.073 | 53 | 112334 | 759.818 | ug/l | 99 |
| 16) Acetone | 3.878 | 43 | 82039 | 686.613 | ug/l | 99 |
| 17) Carbon Disulfide | 4.122 | 76 | 299085 | 155.142 | ug/l | 99 |
| 18) Methyl Acetate | 4.396 | 43 | 49673 | 153.605 | ug/l | 98 |
| 19) Methyl tert-butyl Ether | 5.134 | 73 | 325123 | 148.428 | ug/l | 100 |
| 20) Methylene Chloride | 4.634 | 84 | 113659 | 146.259 | ug/l | 94 |
| 21) trans-1,2-Dichloroethene | 5.134 | 96 | 126864 | 149.805 | ug/l | 97 |
| 22) Diisopropyl ether | 6.030 | 45 | 270897 | 144.902 | ug/l | 98 |
| 23) Vinyl Acetate | 5.975 | 43 | 842460 | 754.449 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 203786 | 145.390 | ug/l | 98 |
| 25) 2-Butanone | 6.908 | 43 | 121750 | 754.322 | ug/l | 95 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 245949 | 143.362 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.902 | 96 | 149023 | 146.943 | ug/l | 98 |
| 28) Bromochloromethane | 7.256 | 49 | 61393 | 165.629 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.274 | 42 | 75734 | 764.431 | ug/l | 97 |
| 30) Chloroform | 7.433 | 83 | 255843 | 141.892 | ug/l | 94 |
| 31) Cyclohexane | 7.713 | 56 | 159686 | 131.985 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 281529 | 145.661 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 170324 | 148.123 | ug/l | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 58258 | 153.750 | ug/l | 100 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 281225 | 148.522 | ug/l | 96 |
| 39) Methylcyclohexane | 9.115 | 83 | 222062 | 150.669 | ug/l | 96 |
| 40) Benzene | 8.091 | 78 | 493419 | 148.061 | ug/l | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020710.D
Acq On : 26 Dec 2024 11:01
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Dec 26 16:06:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.225 | 41 | 30977 | 161.841 ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.170 | 62 | 162177 | 151.768 ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 125433 | 155.741 ug/l | | 98 |
| 44) Trichloroethene | 8.871 | 130 | 146621 | 147.303 ug/l | | 93 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 96524 | 143.087 ug/l | | 95 |
| 46) Dibromomethane | 9.237 | 93 | 70177 | 150.351 ug/l | | 99 |
| 47) Bromodichloromethane | 9.432 | 83 | 197163 | 148.994 ug/l | | 93 |
| 48) Methyl methacrylate | 9.225 | 41 | 57813 | 153.712 ug/l | | 99 |
| 49) 1,4-Dioxane | 9.237 | 88 | 14810 | 3331.078 ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 10.005 | 43 | 297779 | 766.010 ug/l | | 100 |
| 52) Toluene | 10.176 | 92 | 342599 | 149.994 ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.401 | 75 | 180957 | 155.696 ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 194591 | 152.747 ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.578 | 97 | 89814 | 150.745 ug/l | | 97 |
| 56) Ethyl methacrylate | 10.444 | 69 | 125990 | 160.965 ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 147770 | 152.813 ug/l | | 98 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 227376 | 833.052 ug/l | | 99 |
| 59) 2-Hexanone | 10.767 | 43 | 205596 | 801.023 ug/l | | 99 |
| 60) Dibromochloromethane | 10.920 | 129 | 146356 | 152.023 ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.023 | 107 | 87182 | 155.511 ug/l | | 99 |
| 64) Tetrachloroethene | 10.651 | 164 | 139334 | 147.787 ug/l | | 97 |
| 65) Chlorobenzene | 11.450 | 112 | 390317 | 144.451 ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.523 | 131 | 151401 | 144.626 ug/l | | 99 |
| 67) Ethyl Benzene | 11.523 | 91 | 696321 | 147.444 ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 532697 | 295.699 ug/l | | 100 |
| 69) o-Xylene | 11.962 | 106 | 249576 | 145.003 ug/l | | 98 |
| 70) Styrene | 11.974 | 104 | 422920 | 146.372 ug/l | | 100 |
| 71) Bromoform | 12.139 | 173 | 90423 | 150.242 ug/l | # | 100 |
| 73) Isopropylbenzene | 12.261 | 105 | 699104 | 147.320 ug/l | | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 110622 | 164.040 ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 92629 | 152.263 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 136207 | 252.099 ug/l | # | 100 |
| 77) Bromobenzene | 12.541 | 156 | 163665 | 149.824 ug/l | | 98 |
| 78) n-propylbenzene | 12.602 | 91 | 775459 | 145.797 ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 447942 | 147.735 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 577812 | 146.144 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 33964 | 154.104 ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.785 | 91 | 460319 | 146.900 ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 540775 | 146.461 ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.047 | 105 | 570579 | 148.302 ug/l | | 99 |
| 85) sec-Butylbenzene | 13.181 | 105 | 727401 | 146.177 ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.297 | 119 | 651978 | 147.017 ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.297 | 146 | 314188 | 147.160 ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 308690 | 145.345 ug/l | | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 551311 | 148.927 ug/l | | 100 |
| 90) Hexachloroethane | 13.889 | 117 | 125073 | 148.318 ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 272976 | 149.118 ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 18575 | 157.429 ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.931 | 180 | 194628 | 167.268 ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 130414 | 153.785 ug/l | | 99 |
| 95) Naphthalene | 15.151 | 128 | 329555 | 176.838 ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 163465 | 168.727 ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020710.D
Acq On : 26 Dec 2024 11:01
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Dec 26 16:06:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

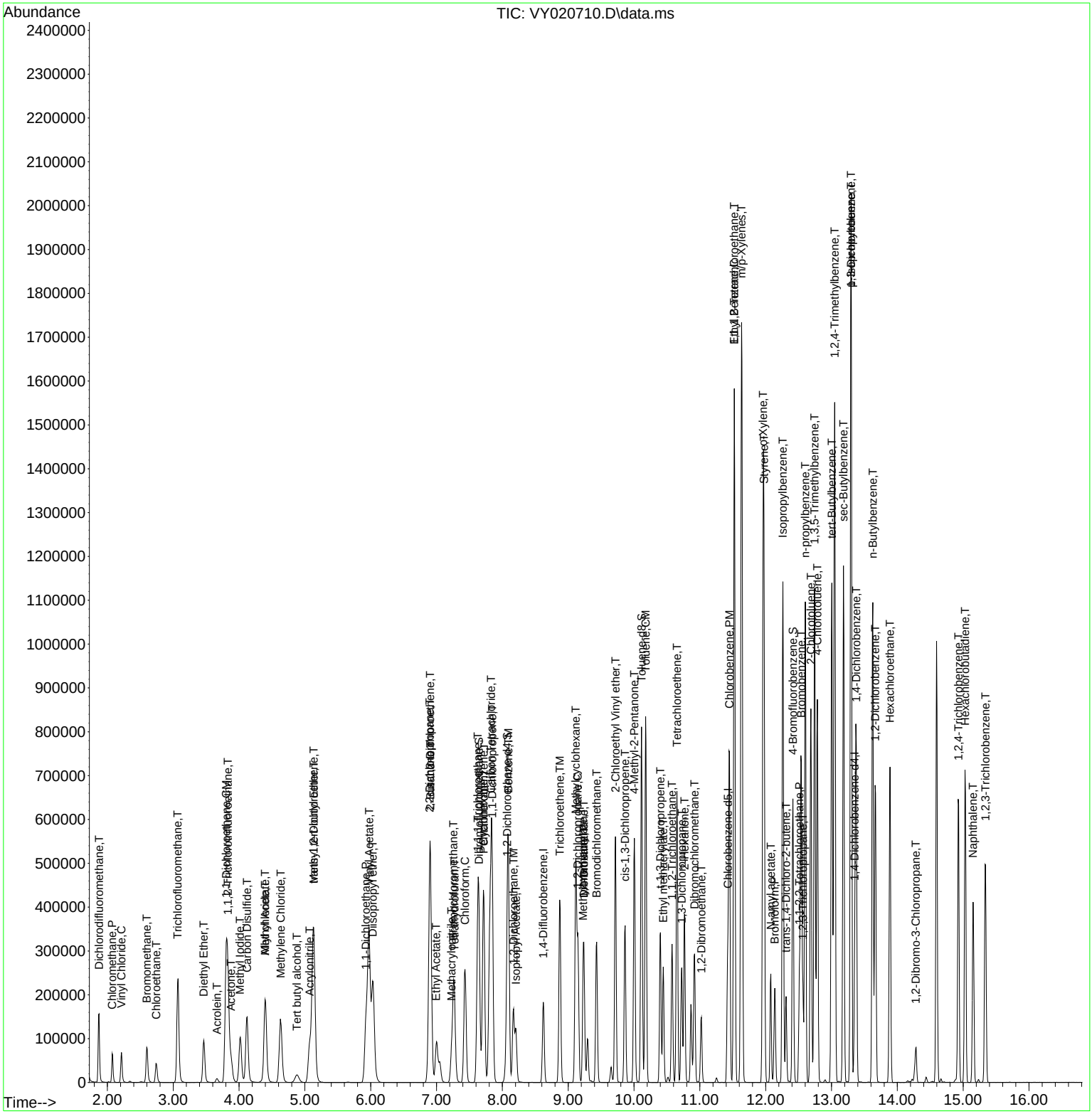
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

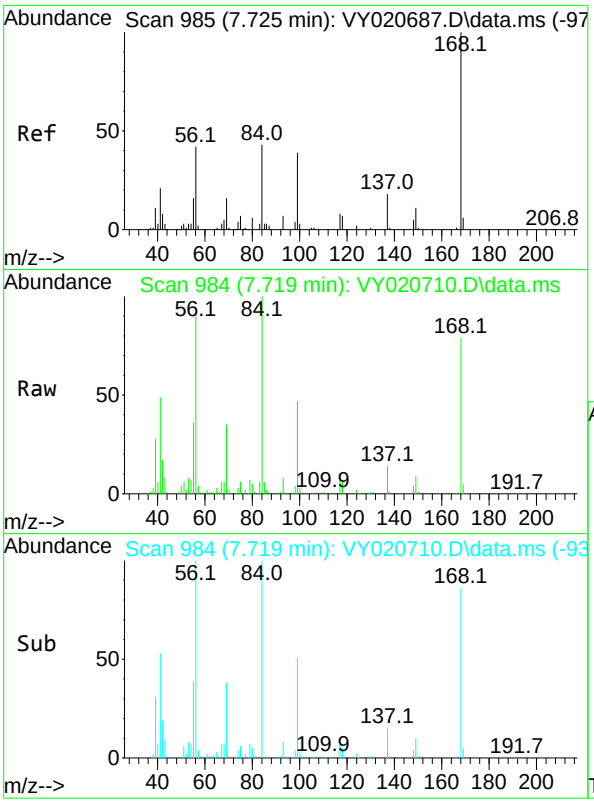
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020710.D
Acq On : 26 Dec 2024 11:01
Operator : SY/MD
Sample : VSTDICC150
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Quant Time: Dec 26 16:06:41 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration



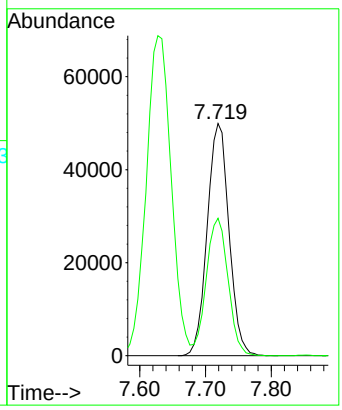


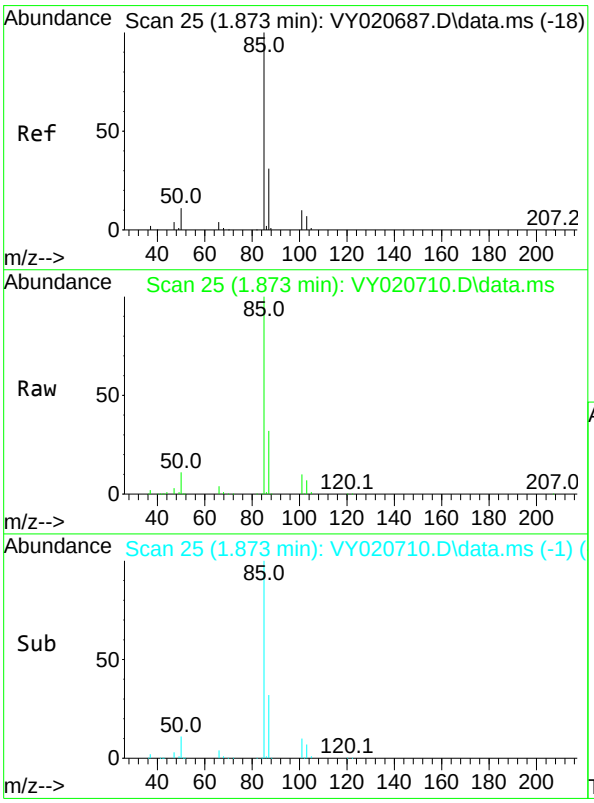

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:168 Resp: 114988

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.2 | 43.8 | 65.6 |

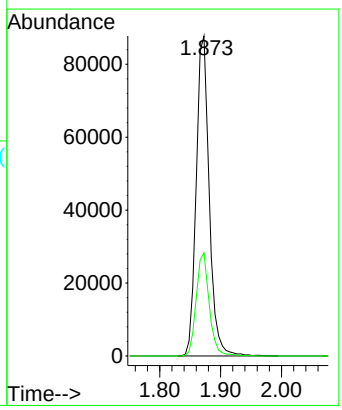


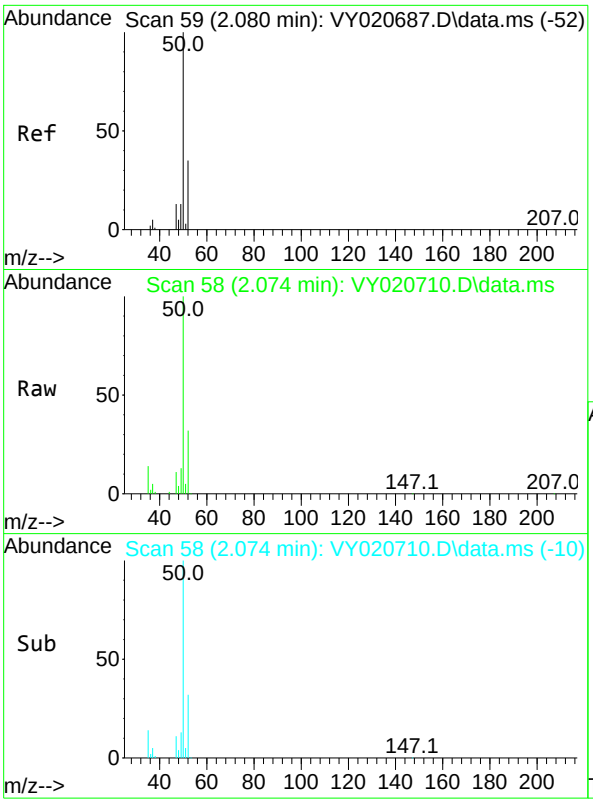




#2
Dichlorodifluoromethane
Concen: 143.447 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 85 Resp: 129832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 15.4 | 46.4 |



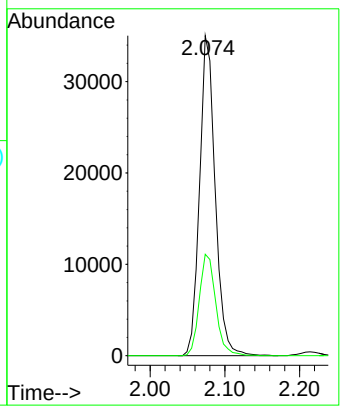


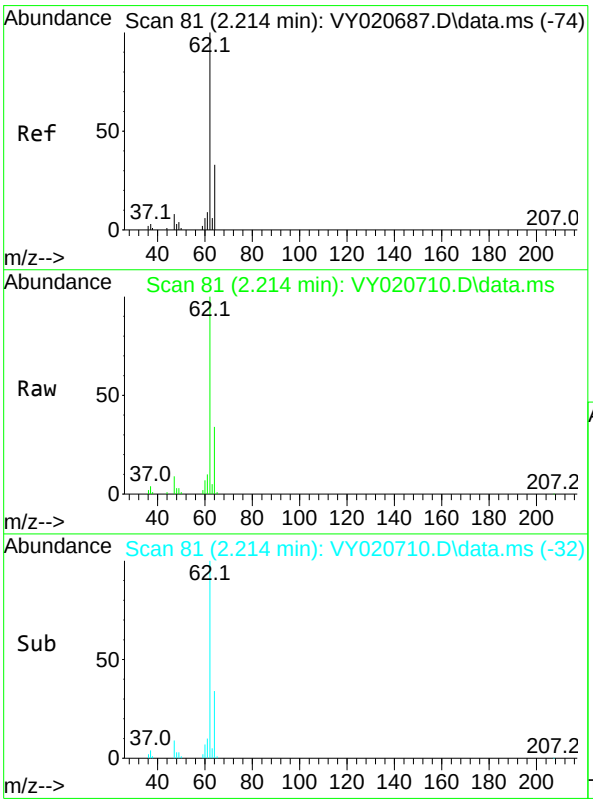

#3
Chloromethane
Concen: 150.751 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 50 Resp: 50886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.7 | 28.2 | 42.2 |

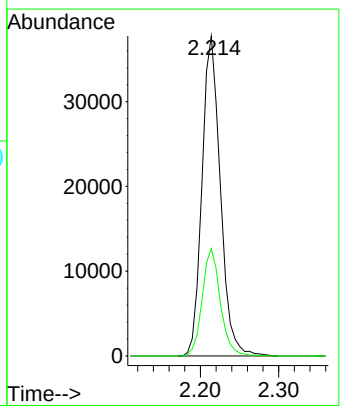


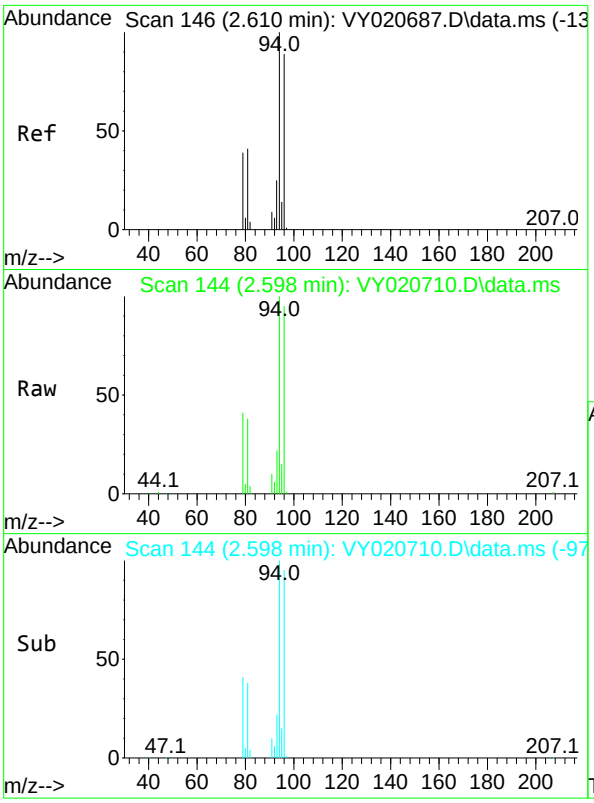




#4
Vinyl Chloride
Concen: 146.779 ug/l
RT: 2.214 min Scan# 81
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 62 Resp: 61386

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.6 | 26.6 | 40.0 |



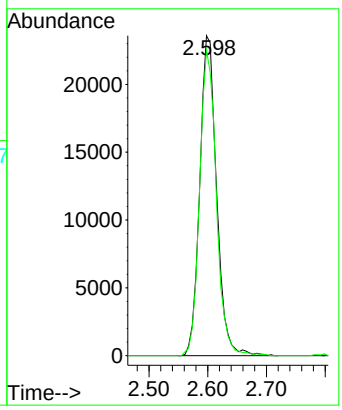


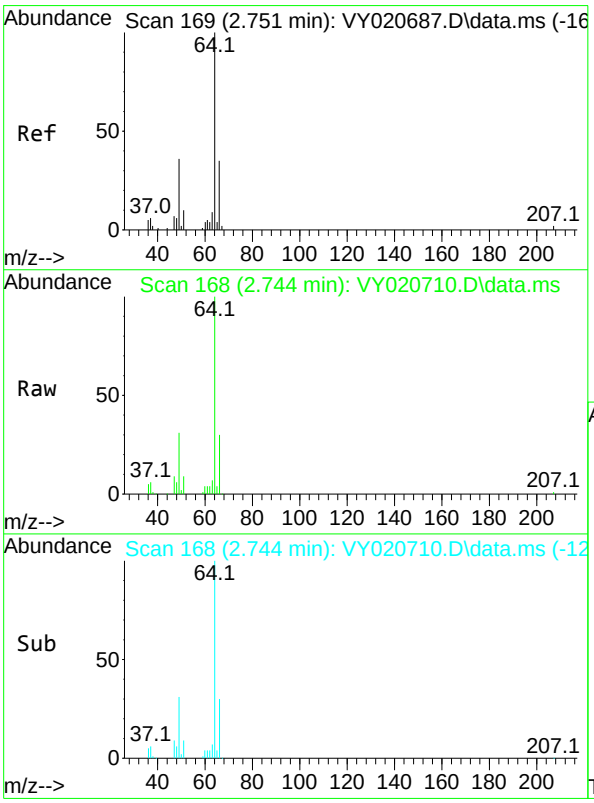

#5
Bromomethane
Concen: 148.385 ug/l
RT: 2.598 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 94 Resp: 46855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.4 | 71.0 | 106.6 |

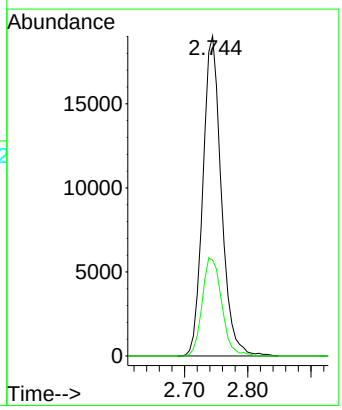


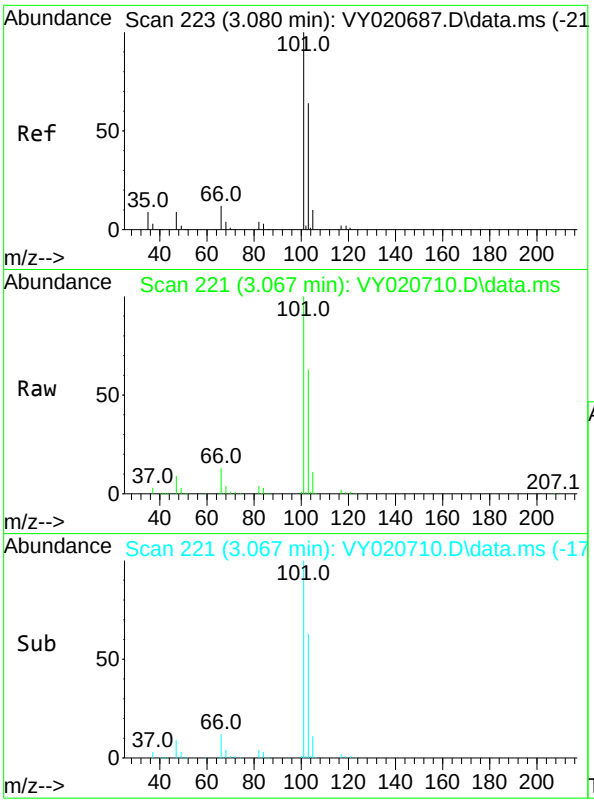




#6
Chloroethane
Concen: 153.610 ug/l
RT: 2.744 min Scan# 168
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 64 Resp: 38539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.0 | 27.8 | 41.8 |



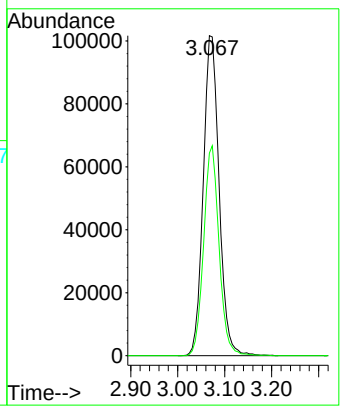


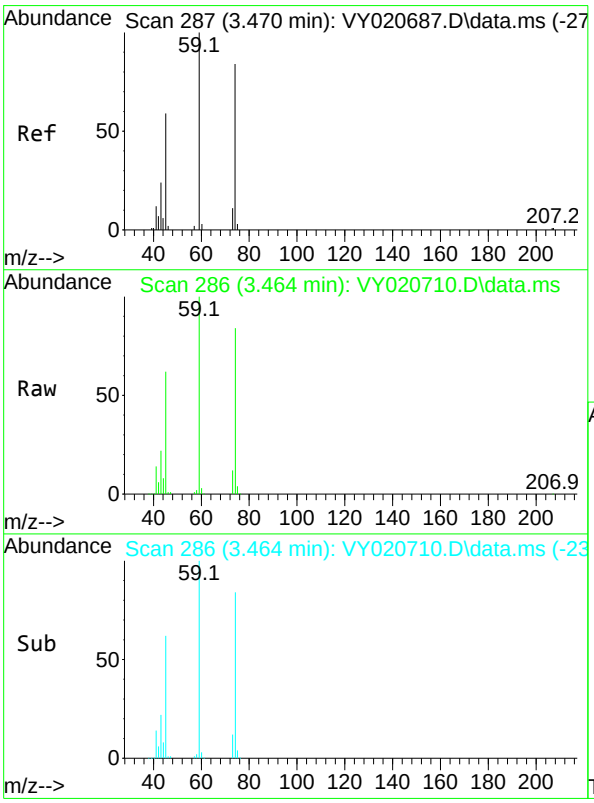

#7
Trichlorofluoromethane
Concen: 147.839 ug/l
RT: 3.067 min Scan# 2
Delta R.T. -0.013 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 237769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 51.4 | 77.0 |

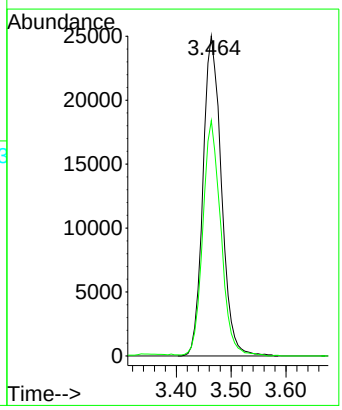


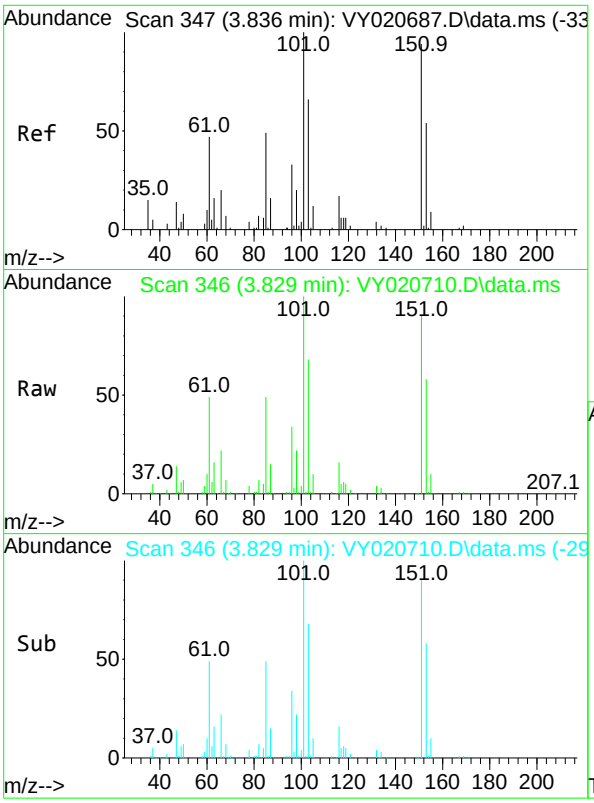




#8
Diethyl Ether
Concen: 152.312 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 74 Resp: 58291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 72.1 | 35.8 | 107.4 |



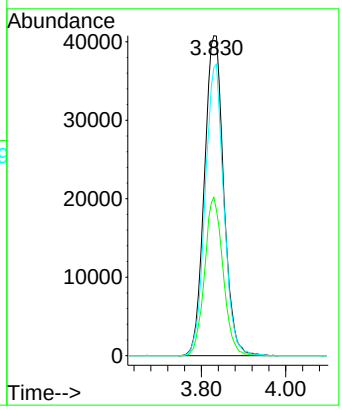


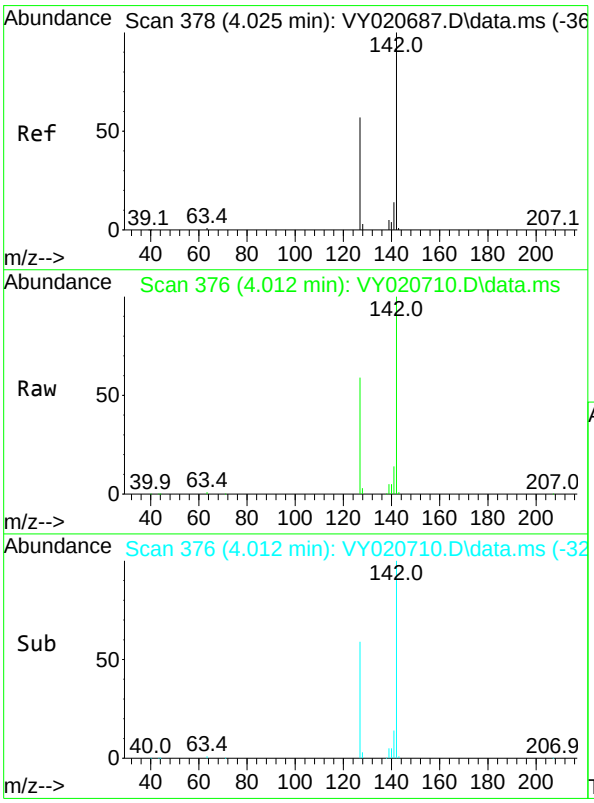

#9
1,1,2-Trichlorotrifluoroethane
Concen: 146.898 ug/l
RT: 3.829 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 129702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.4 | 38.2 | 57.2 |
| 151 | 88.1 | 68.4 | 102.6 |

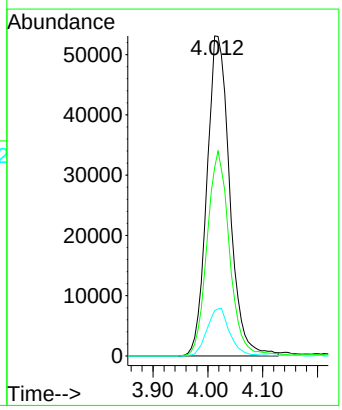


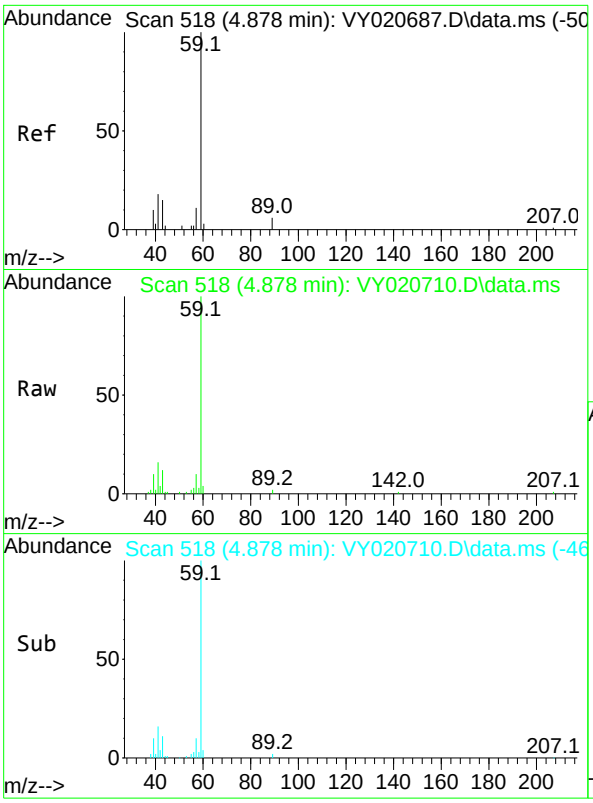




#10
Methyl Iodide
Concen: 158.974 ug/l
RT: 4.012 min Scan# 376
Delta R.T. -0.013 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:142 Resp: 153490

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 62.9 | 48.8 | 73.2 |
| 141 | 14.9 | 11.9 | 17.9 |



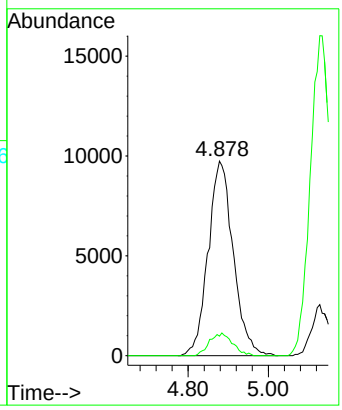


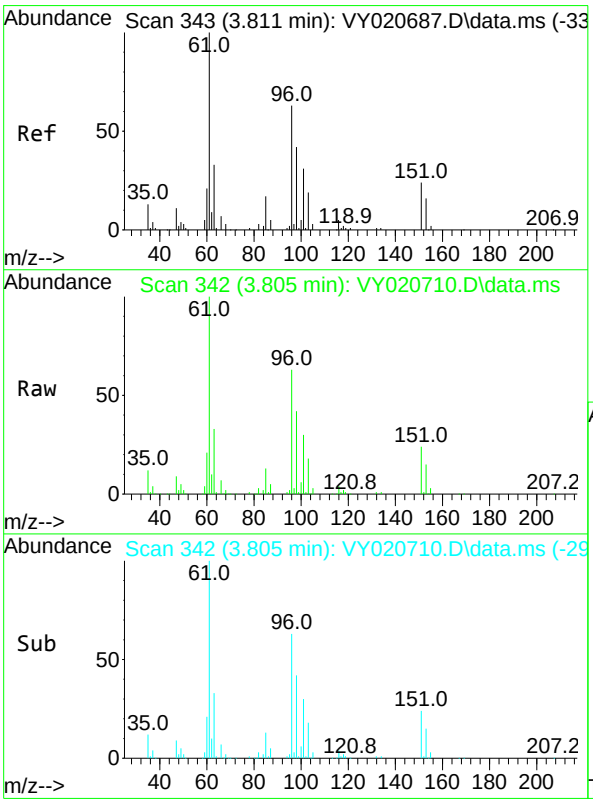

#11
Tert butyl alcohol
Concen: 761.366 ug/l
RT: 4.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 59 Resp: 42318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.7 | 2.8 | 4.2# |

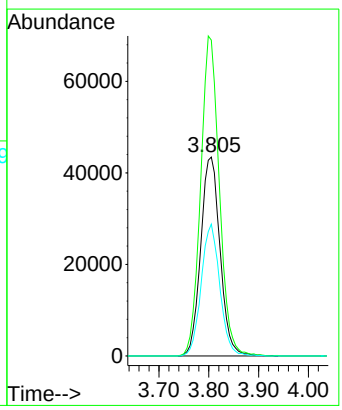


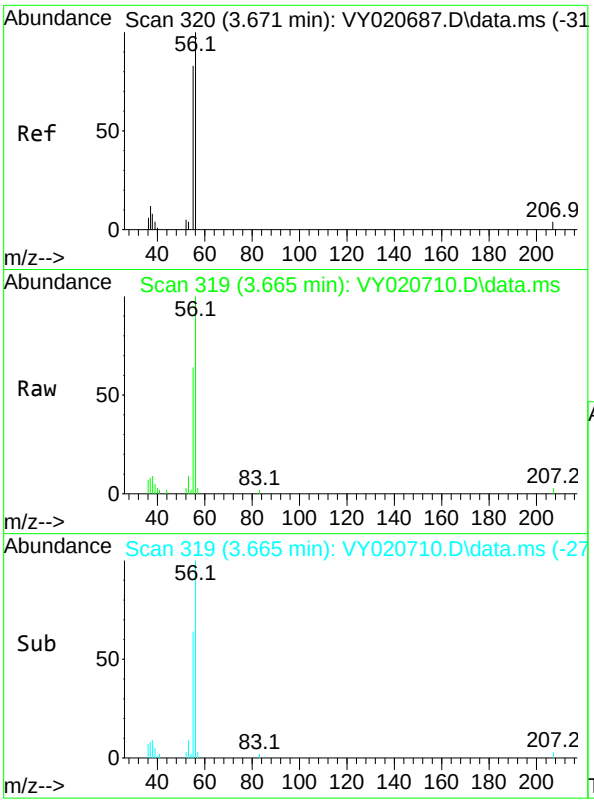




#12
1,1-Dichloroethene
Concen: 149.063 ug/l
RT: 3.805 min Scan# 342
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 96 Resp: 117146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.6 | 127.1 | 190.7 |
| 98 | 66.3 | 53.4 | 80.0 |



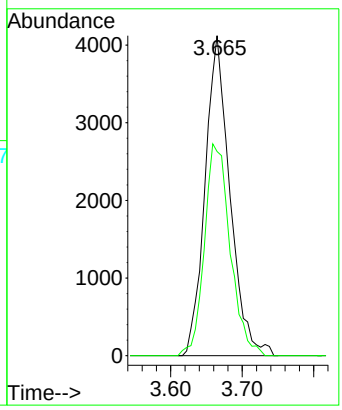


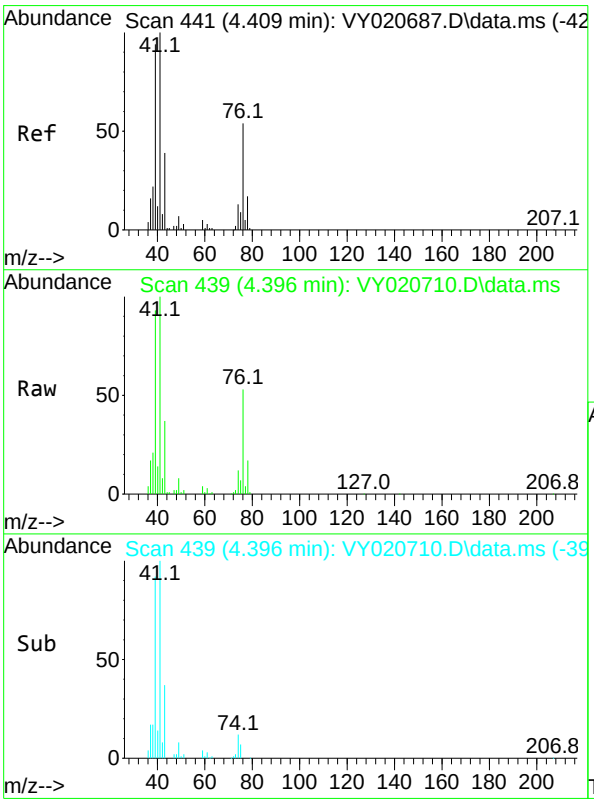

#13
Acrolein
Concen: 505.005 ug/l
RT: 3.665 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 56 Resp: 9943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.5 | 57.0 | 85.4 |

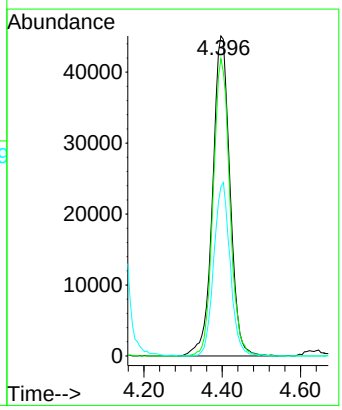


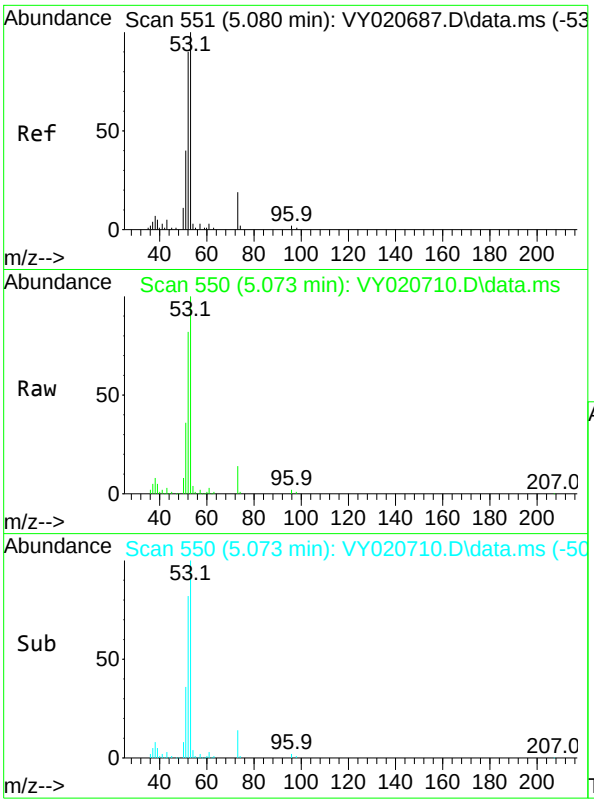




#14
Allyl chloride
Concen: 151.192 ug/l
RT: 4.396 min Scan# 439
Delta R.T. -0.013 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 41 Resp: 139044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 88.7 | 73.5 | 110.3 |
| 76 | 51.0 | 41.8 | 62.8 |



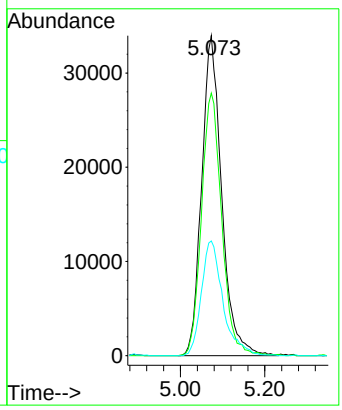


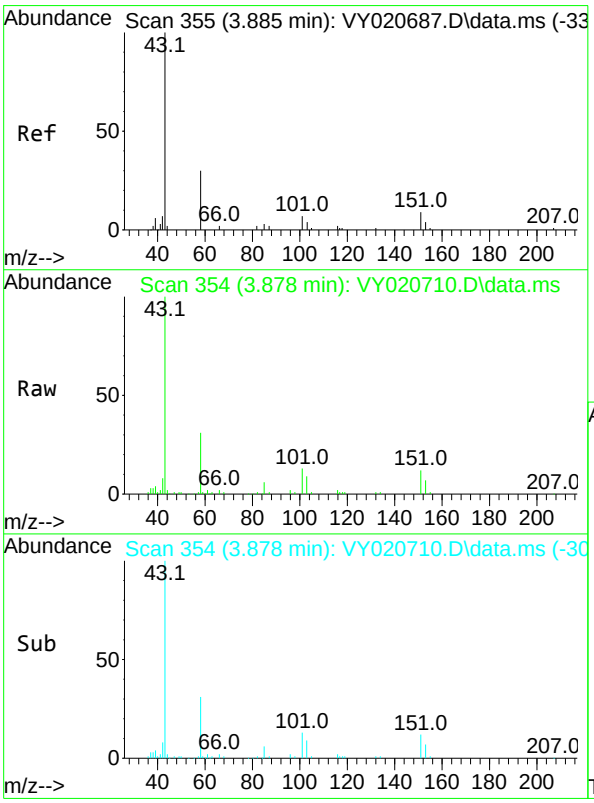

#15
Acrylonitrile
Concen: 759.818 ug/l
RT: 5.073 min Scan# 5
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 53 Resp: 112334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.7 | 67.1 | 100.7 |
| 51 | 38.7 | 31.4 | 47.0 |

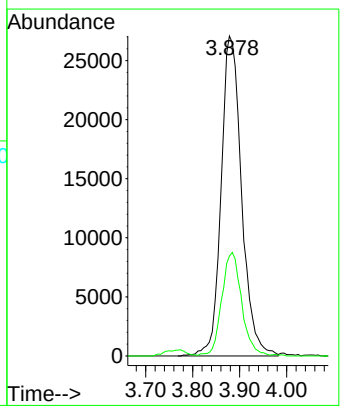


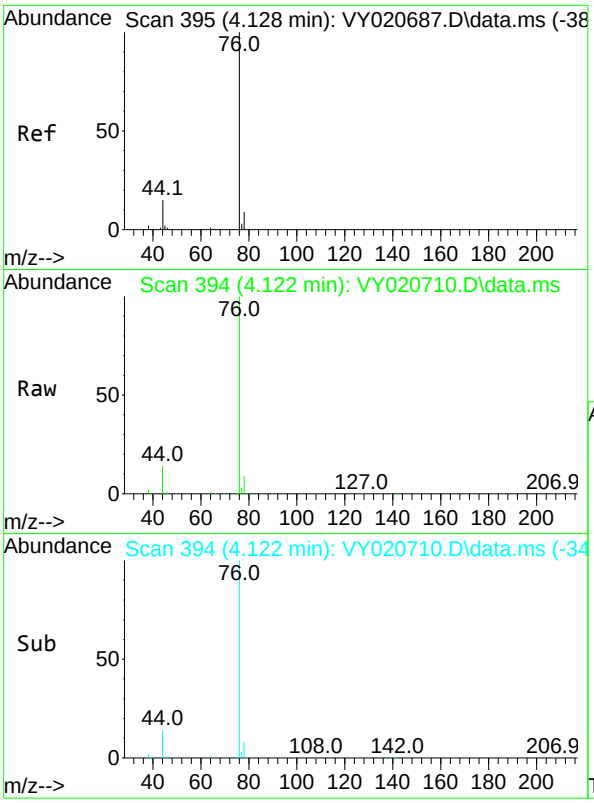




#16
Acetone
Concen: 686.613 ug/l
RT: 3.878 min Scan# 354
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 82039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.0 | 25.0 | 37.6 |



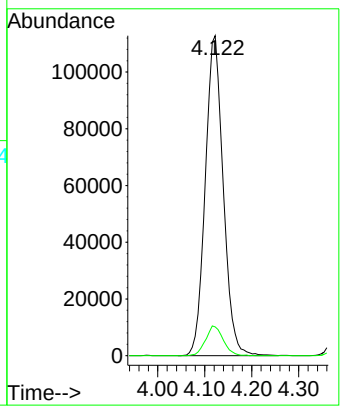


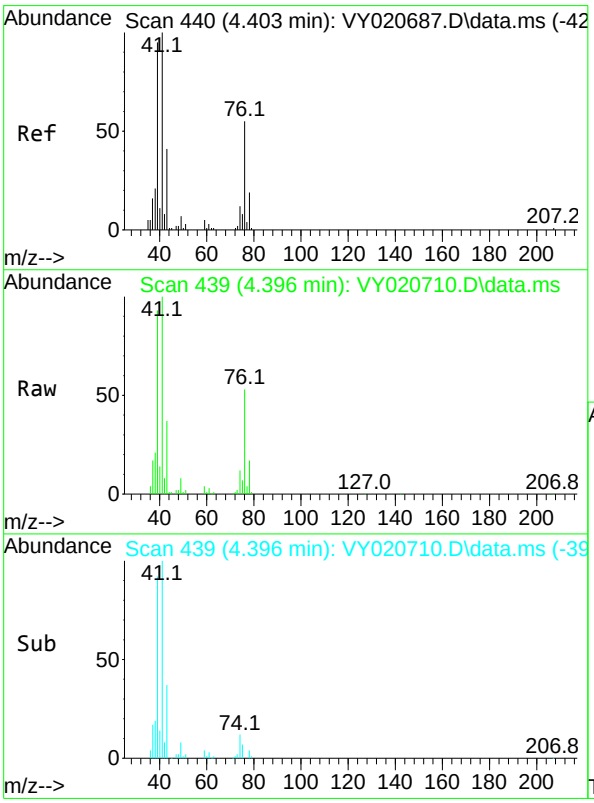

#17
Carbon Disulfide
Concen: 155.142 ug/l
RT: 4.122 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 76 Resp: 299085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 6.9 | 10.3 |

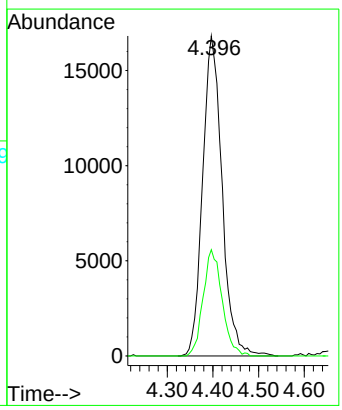


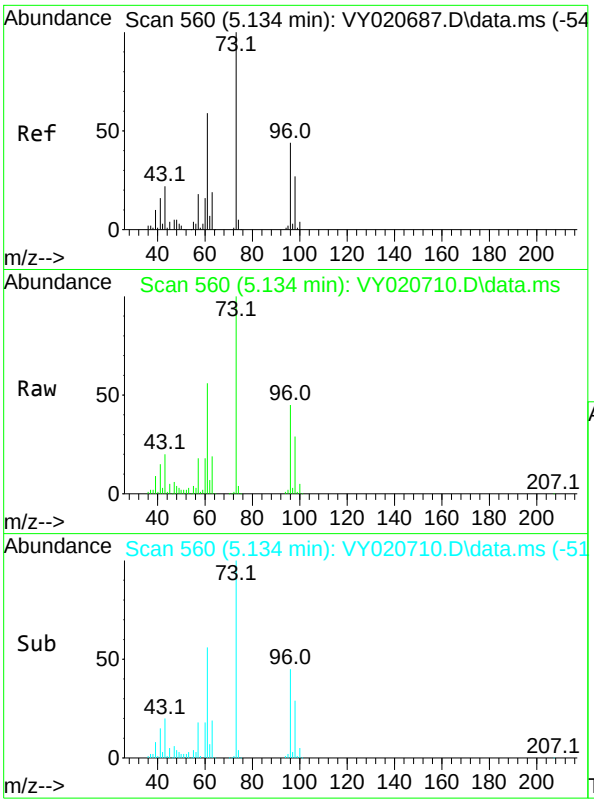




#18
Methyl Acetate
Concen: 153.605 ug/l
RT: 4.396 min Scan# 439
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 49673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 32.4 | 25.3 | 37.9 |



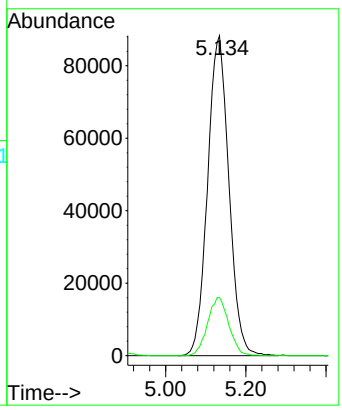


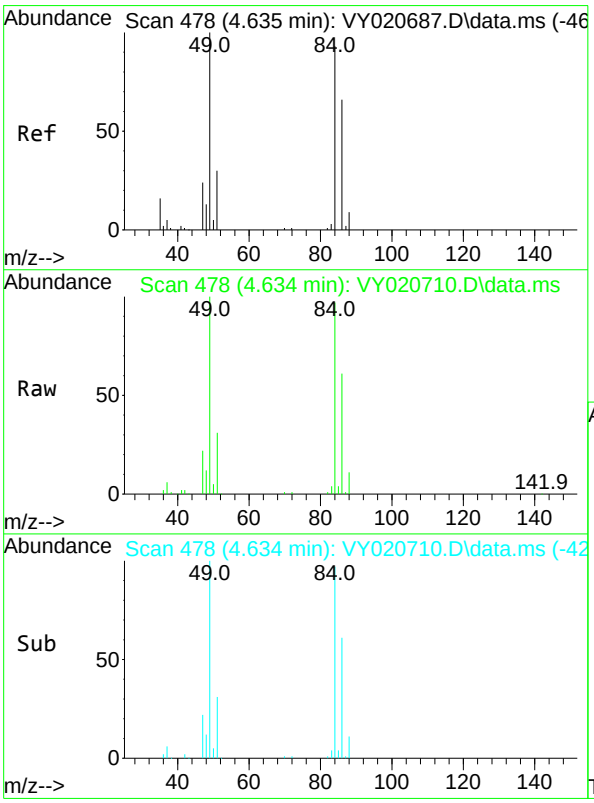

#19
Methyl tert-butyl Ether
Concen: 148.428 ug/l
RT: 5.134 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 73 Resp: 325123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 18.1 | 14.4 | 21.6 |

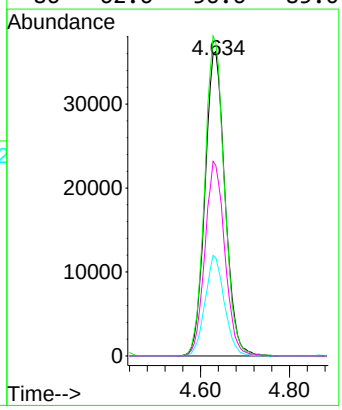


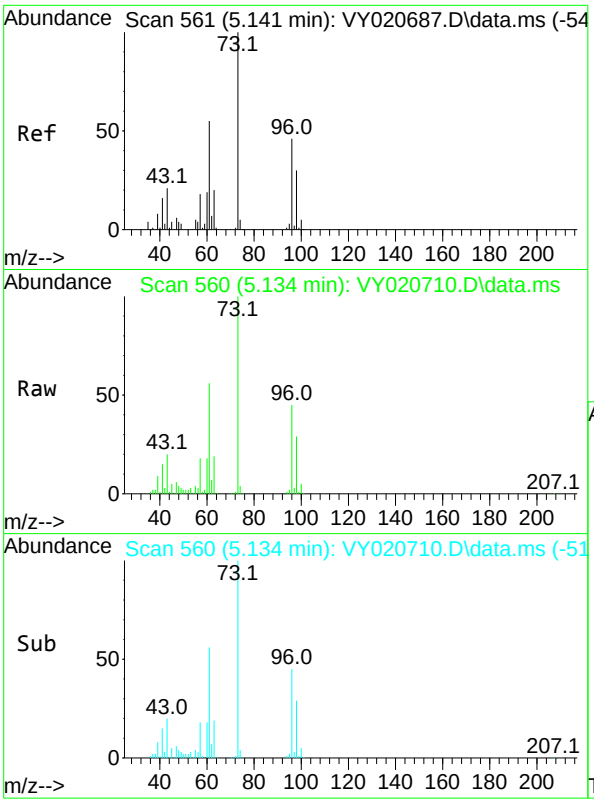




#20
Methylene Chloride
Concen: 146.259 ug/l
RT: 4.634 min Scan# 478
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 84 Resp: 113659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 102.8 | 86.4 | 129.6 |
| 51 | 32.3 | 25.5 | 38.3 |
| 86 | 62.6 | 56.6 | 85.0 |



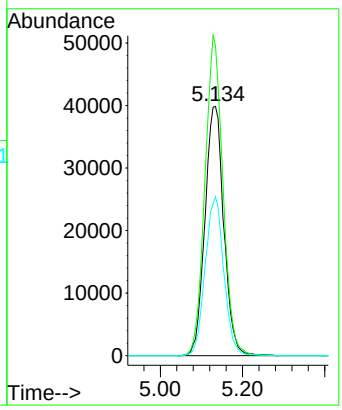


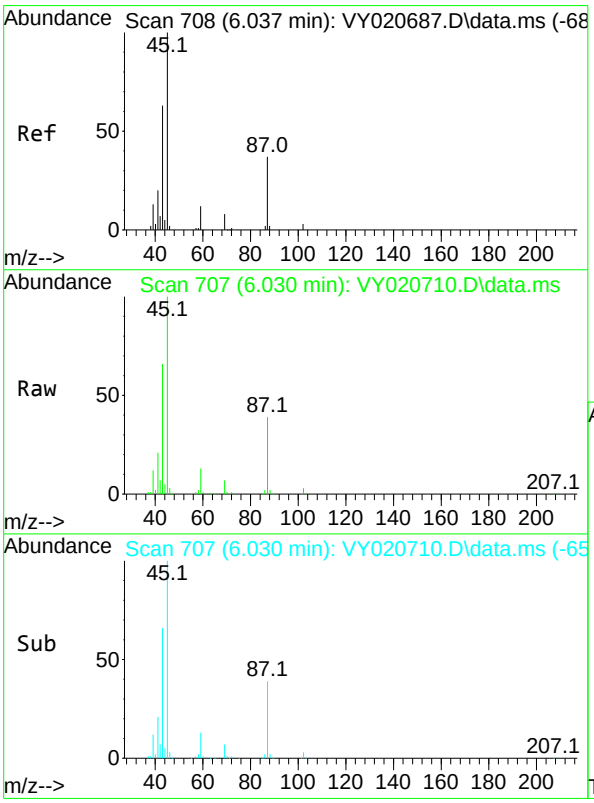

#21
trans-1,2-Dichloroethene
Concen: 149.805 ug/l
RT: 5.134 min Scan# 5
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 96 Resp: 126864

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.4 | 96.1 | 144.1 |
| 98 | 63.7 | 52.7 | 79.1 |

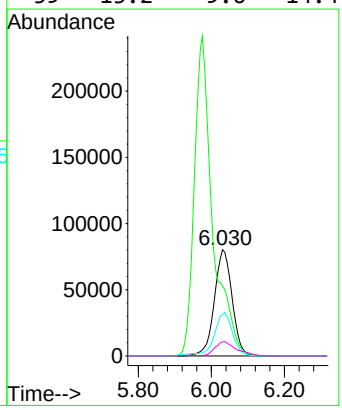


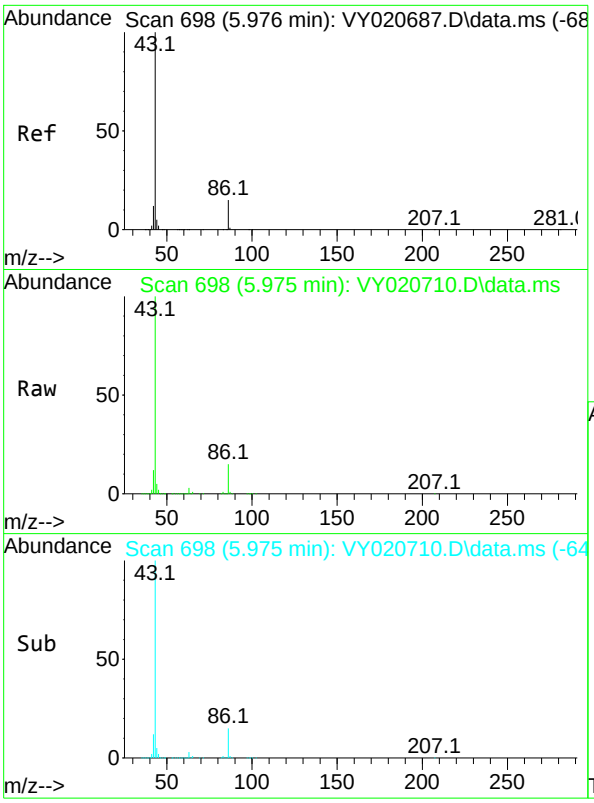




#22
Diisopropyl ether
Concen: 144.902 ug/l
RT: 6.030 min Scan# 707
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 45 Resp: 270897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.6 | 51.3 | 76.9 |
| 87 | 39.1 | 30.6 | 46.0 |
| 59 | 13.2 | 9.6 | 14.4 |



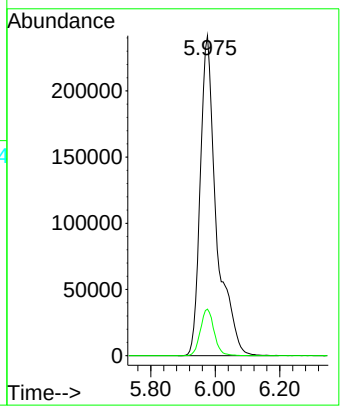


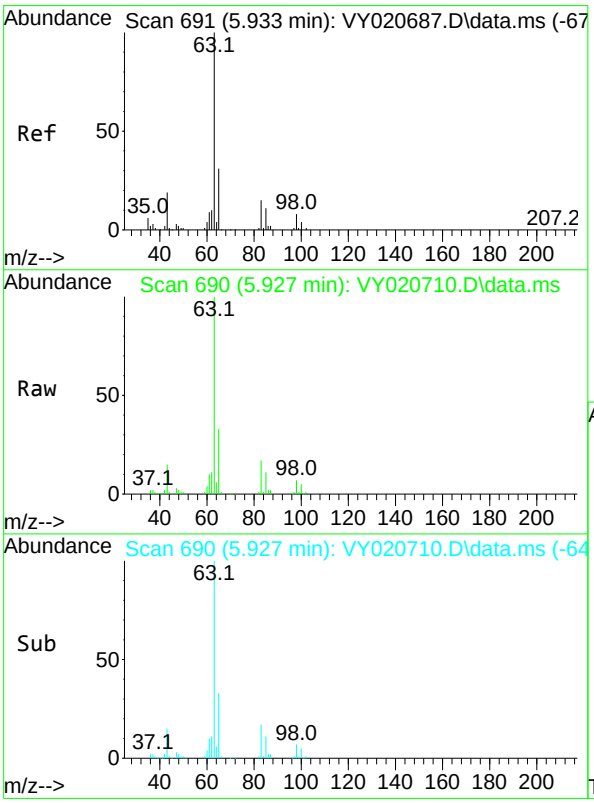

#23
Vinyl Acetate
Concen: 754.449 ug/l
RT: 5.975 min Scan# 6
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 842460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.6 | 12.0 | 18.0 |

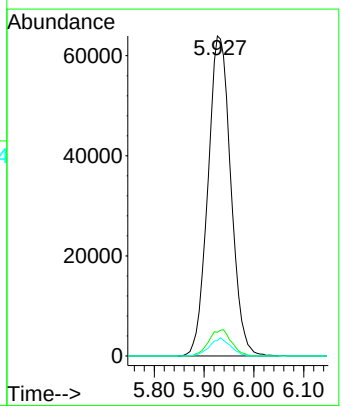


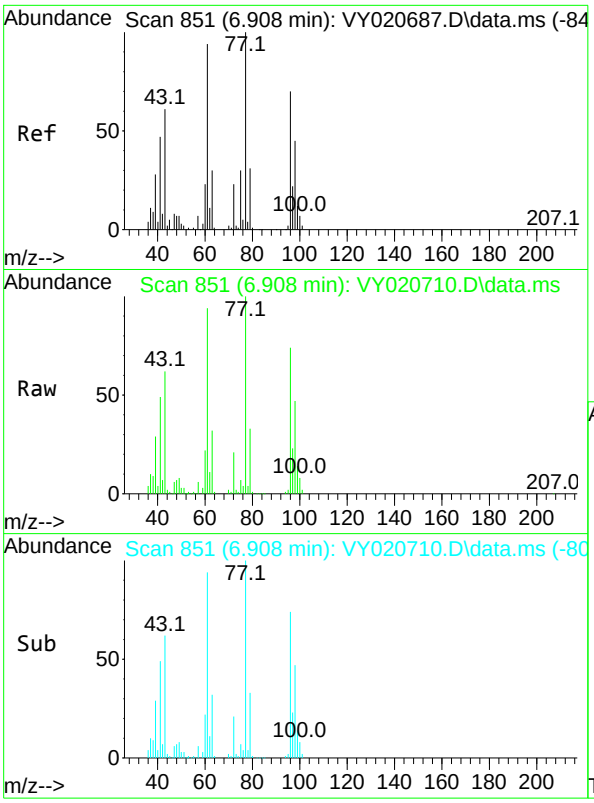




#24
1,1-Dichloroethane
Concen: 145.390 ug/l
RT: 5.927 min Scan# 690
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 63 Resp: 203786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 4.0 | 12.0 |
| 100 | 4.8 | 2.1 | 6.2 |



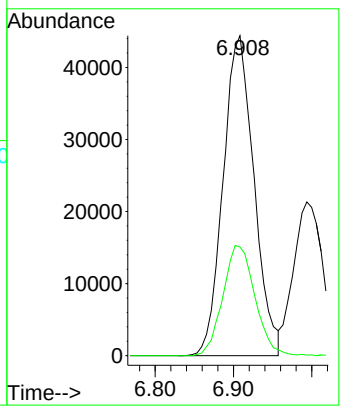


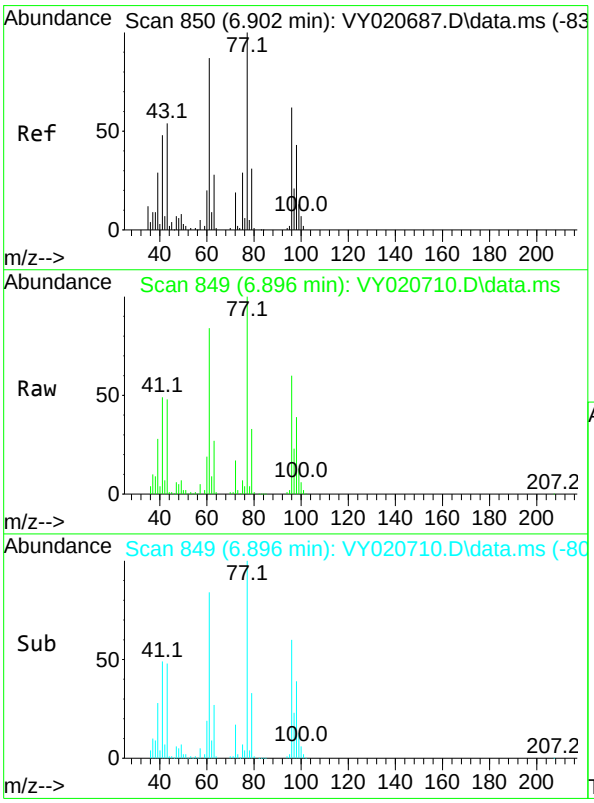

#25
2-Butanone
Concen: 754.322 ug/l
RT: 6.908 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 121750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 34.0 | 29.5 | 44.3 |

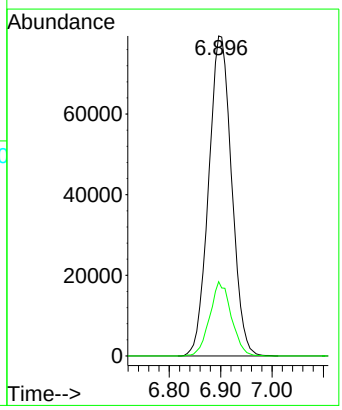


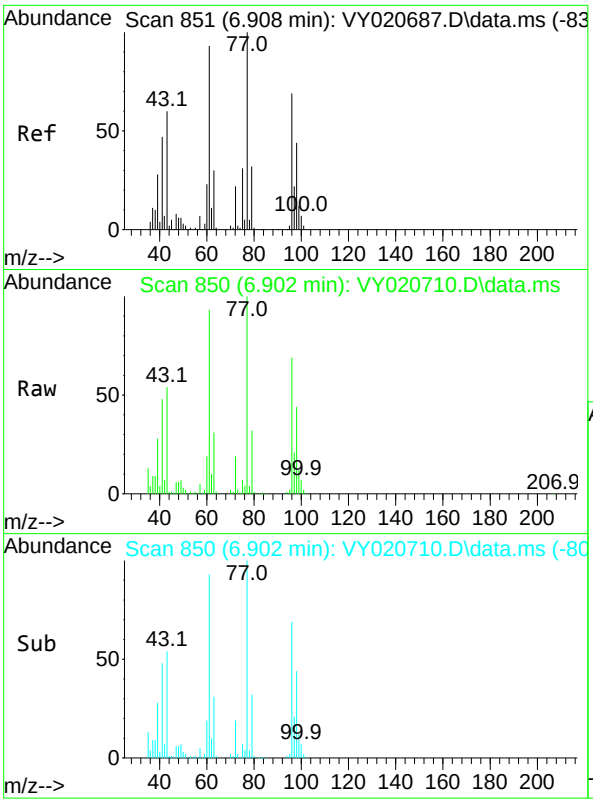




#26
2,2-Dichloropropane
Concen: 143.362 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 77 Resp: 245949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.8 | 10.8 | 32.4 |



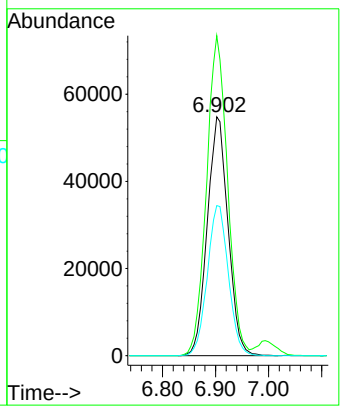


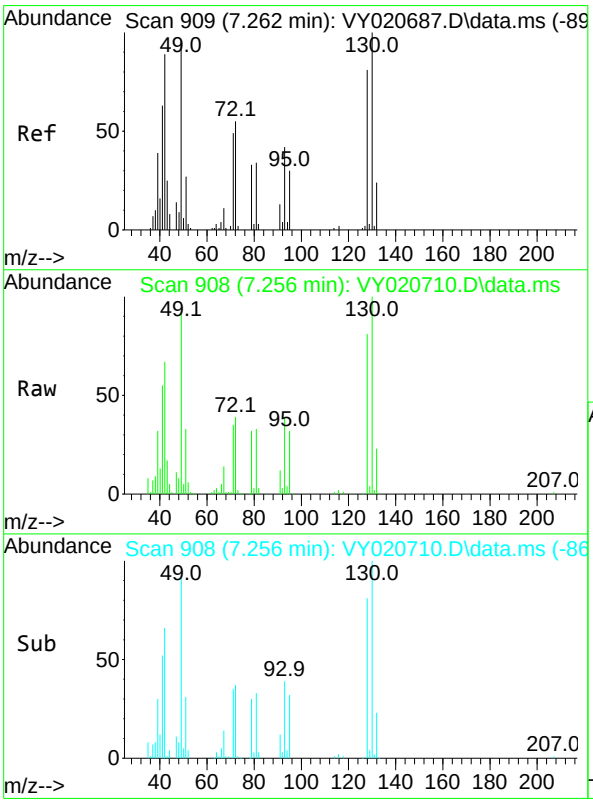

#27
cis-1,2-Dichloroethene
Concen: 146.943 ug/l
RT: 6.902 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 96 Resp: 149023

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.7 | 0.0 | 277.2 |
| 98 | 63.8 | 0.0 | 131.0 |

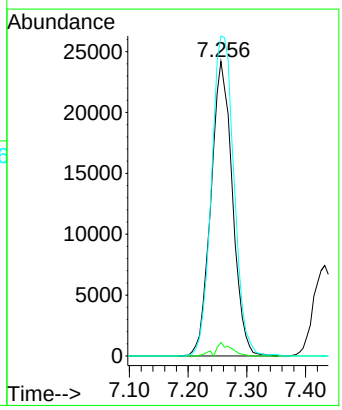


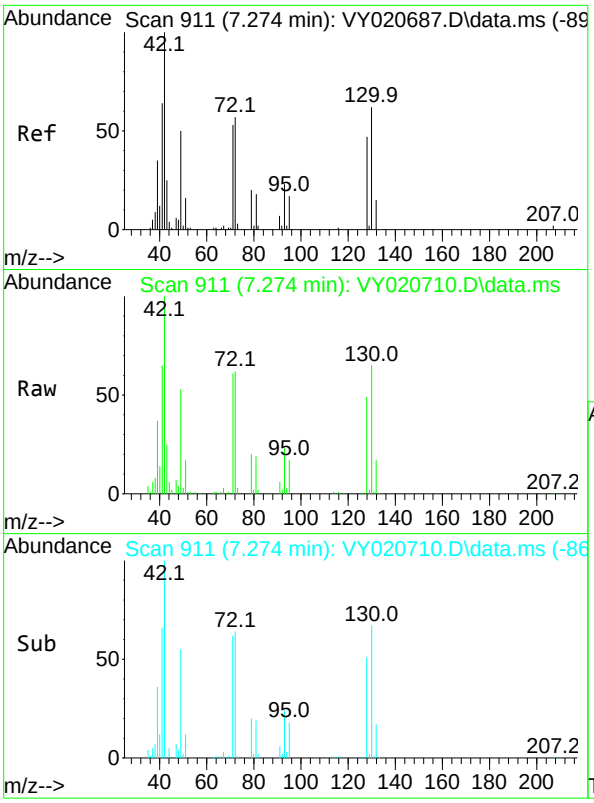




#28
Bromochloromethane
Concen: 165.629 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 49 Resp: 61393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 3.4 | 0.0 | 5.4 |
| 130 | 113.9 | 87.2 | 130.8 |



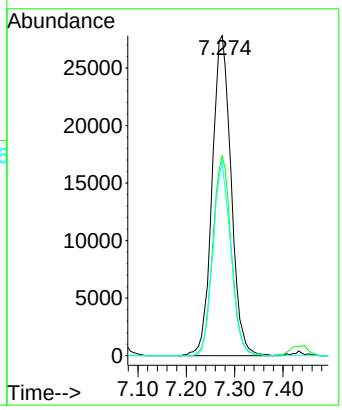


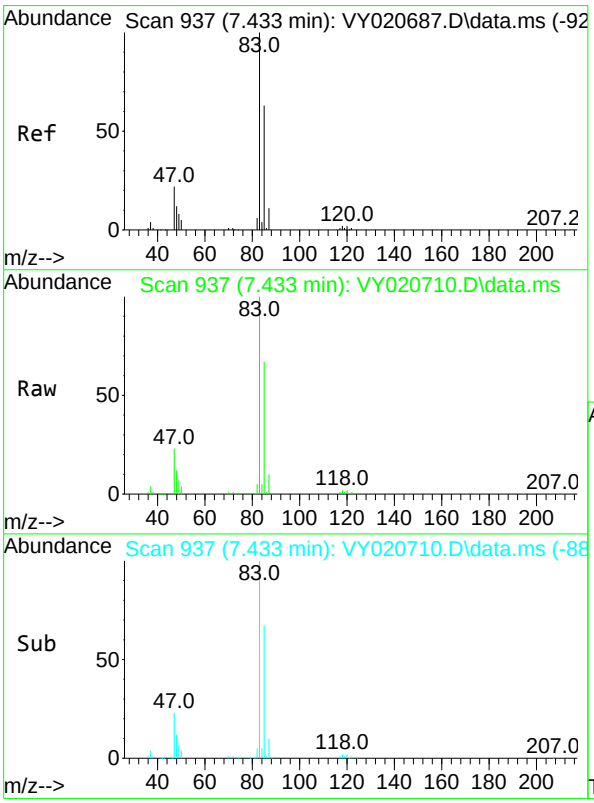

#29
Tetrahydrofuran
Concen: 764.431 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 42 Resp: 75734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 60.4 | 47.4 | 71.0 |
| 71 | 57.1 | 42.8 | 64.2 |

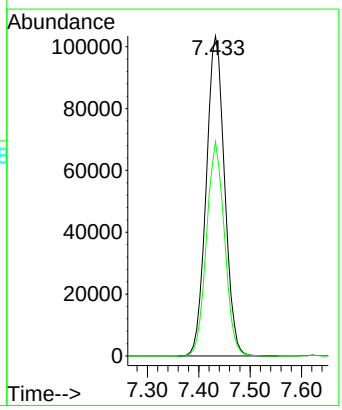


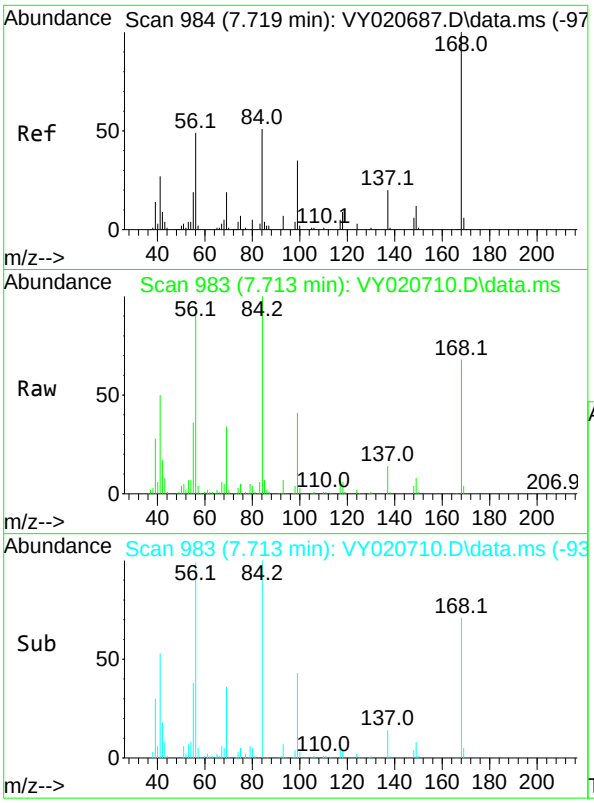




#30
Chloroform
Concen: 141.892 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 83 Resp: 255843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.0 | 50.2 | 75.2 |



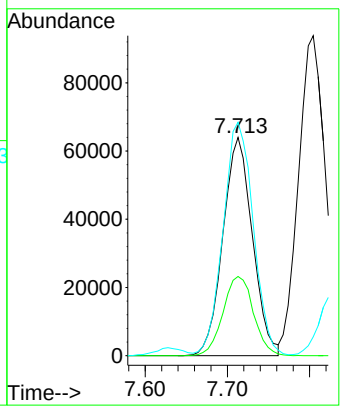


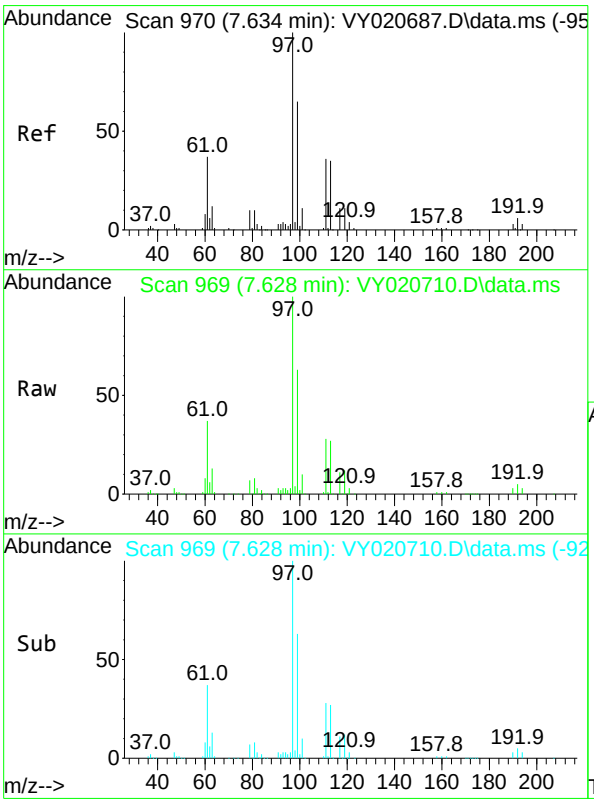

#31
Cyclohexane
Concen: 131.985 ug/l
RT: 7.713 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 56 Resp: 159686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 36.3 | 31.3 | 46.9 |
| 84 | 104.4 | 83.9 | 125.9 |

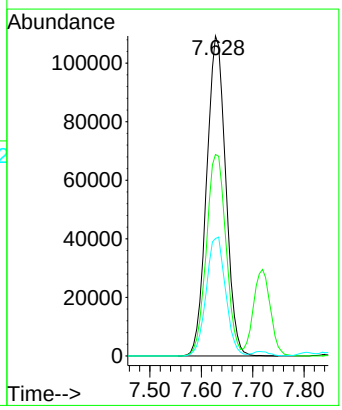


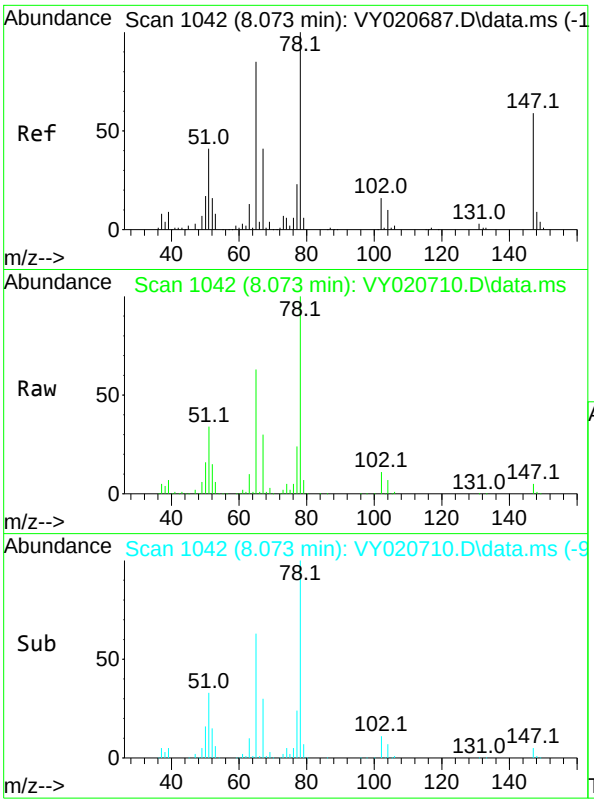




#32
1,1,1-Trichloroethane
Concen: 145.661 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 97 Resp: 281529

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.6 | 51.0 | 76.6 |
| 61 | 37.8 | 30.0 | 45.0 |



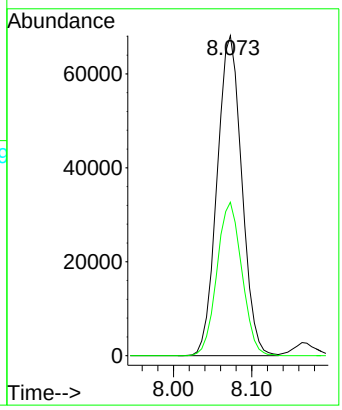


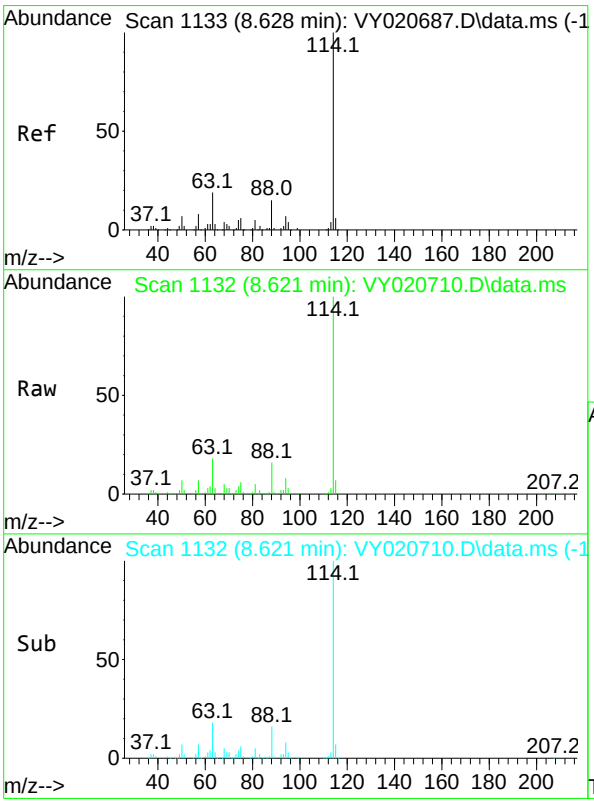

#33
1,2-Dichloroethane-d4
Concen: 158.772 ug/l
RT: 8.073 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 65 Resp: 149540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.3 | 0.0 | 98.0 |

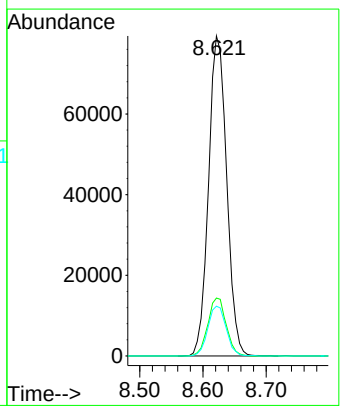


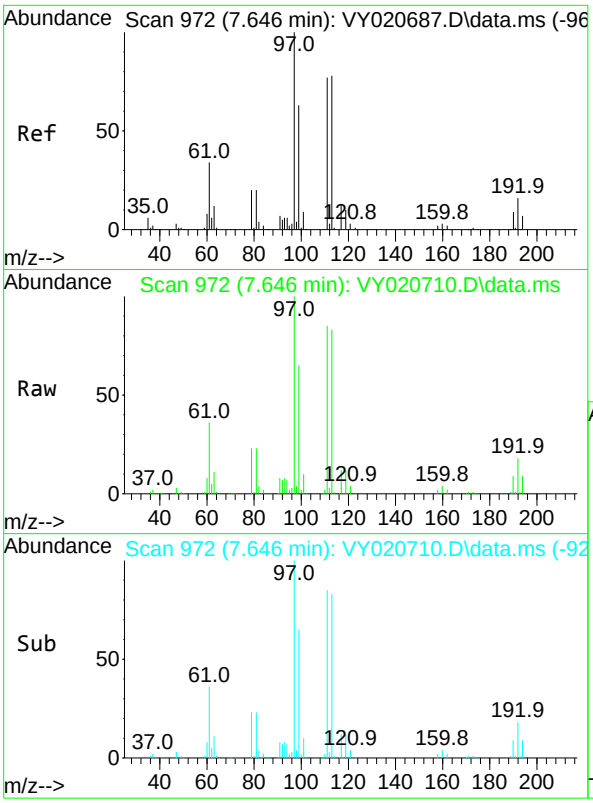




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 1132
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:114 Resp: 158039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.1 | 0.0 | 38.4 |
| 88 | 15.5 | 0.0 | 30.4 |



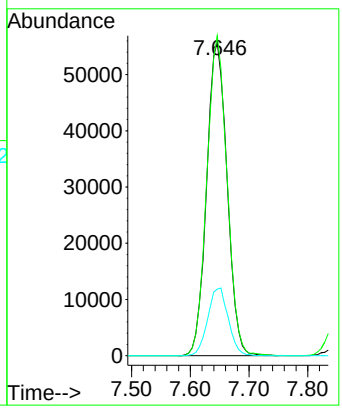


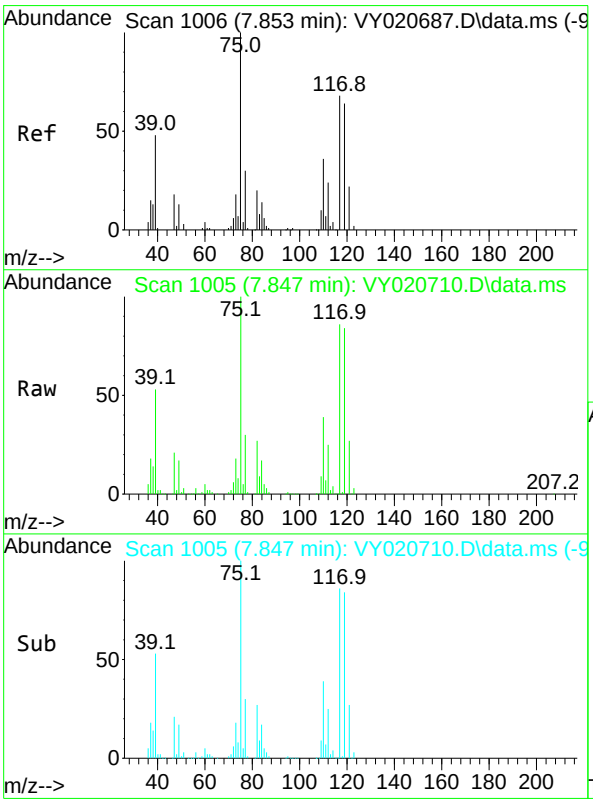

#35
Dibromofluoromethane
Concen: 154.819 ug/l
RT: 7.646 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:113 Resp: 134770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.0 | 79.8 | 119.8 |
| 192 | 21.7 | 17.0 | 25.6 |

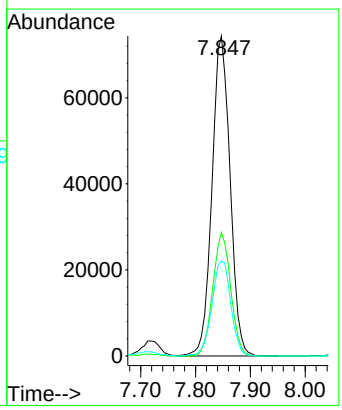


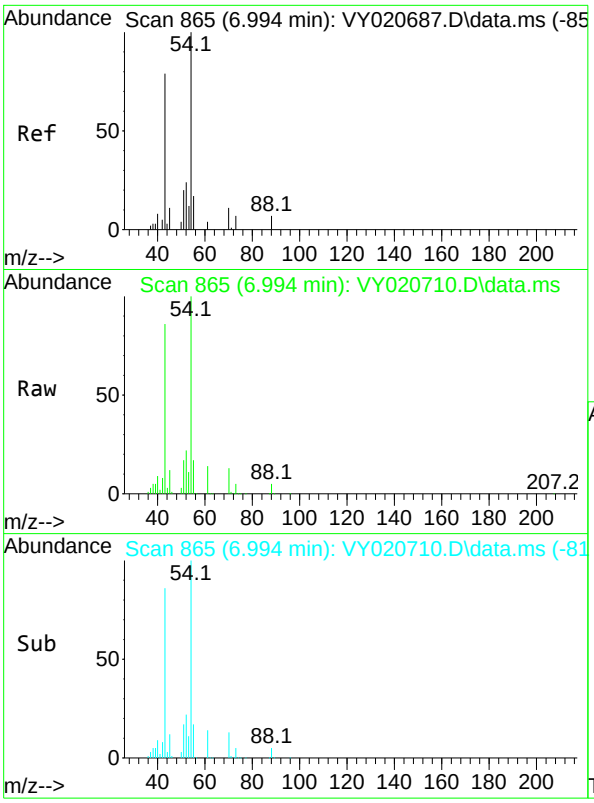




#36
1,1-Dichloropropene
Concen: 148.123 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 75 Resp: 170324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.2 | 19.6 | 58.7 |
| 77 | 31.1 | 25.1 | 37.7 |



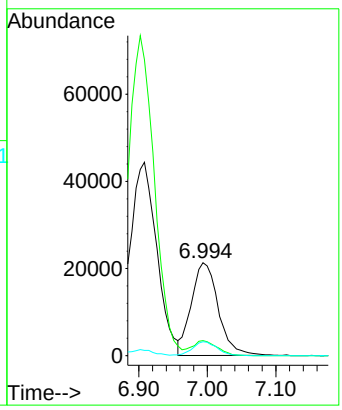


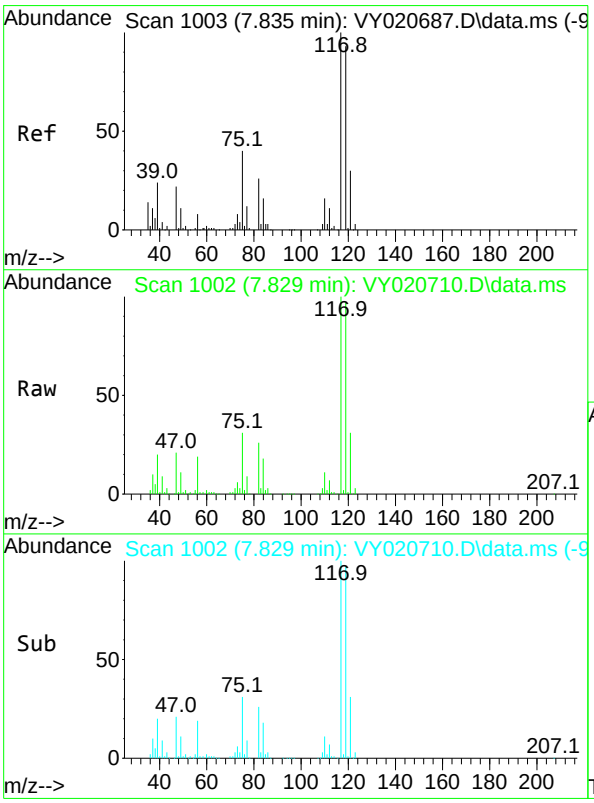

#37
Ethyl Acetate
Concen: 153.750 ug/l
RT: 6.994 min Scan# 8
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 58258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.5 | 11.7 | 17.5 |
| 70 | 13.8 | 11.0 | 16.4 |

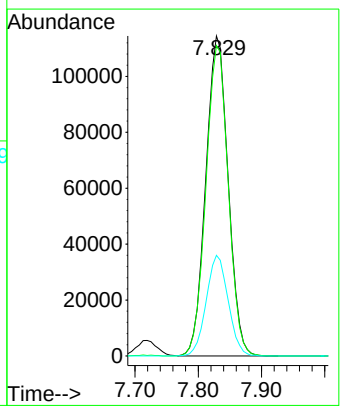


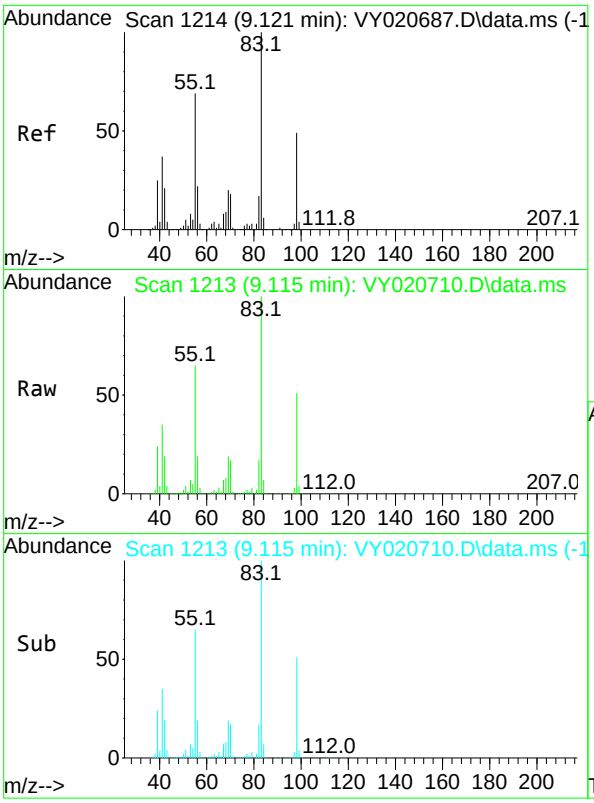




#38
Carbon Tetrachloride
Concen: 148.522 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:117 Resp: 281225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.0 | 74.4 | 111.6 |
| 121 | 31.4 | 24.2 | 36.2 |



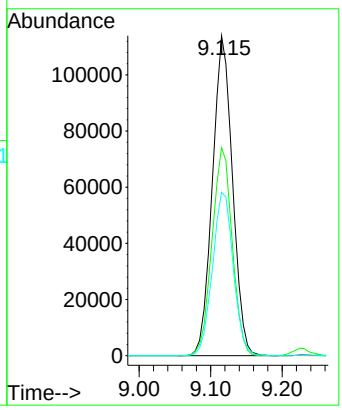


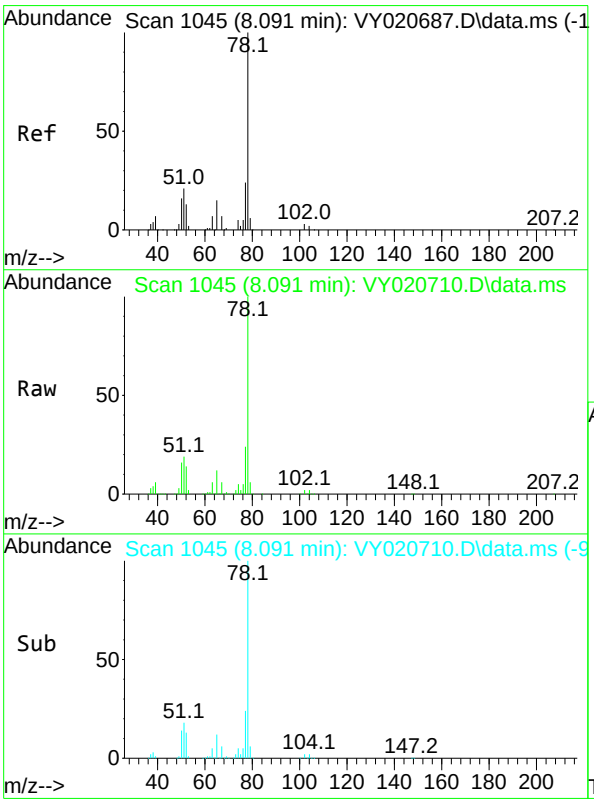

#39
Methylcyclohexane
Concen: 150.669 ug/l
RT: 9.115 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 222062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.0 | 55.0 | 82.4 |
| 98 | 51.1 | 39.0 | 58.6 |

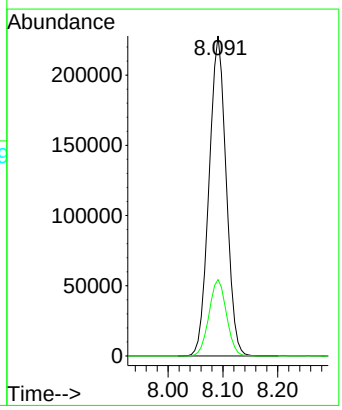


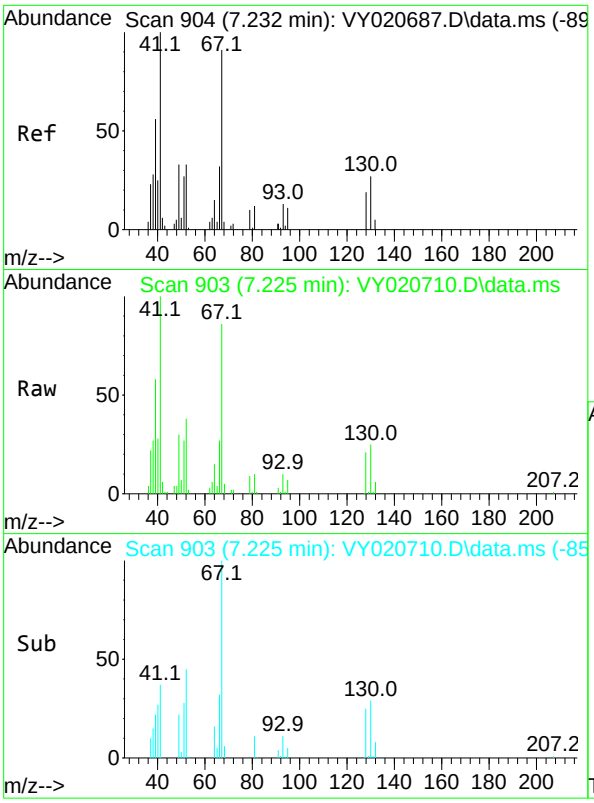




#40
Benzene
Concen: 148.061 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 78 Resp: 493419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.9 | 19.2 | 28.8 |



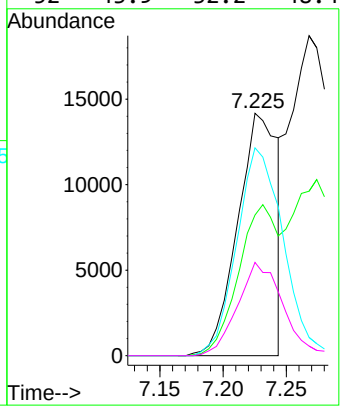


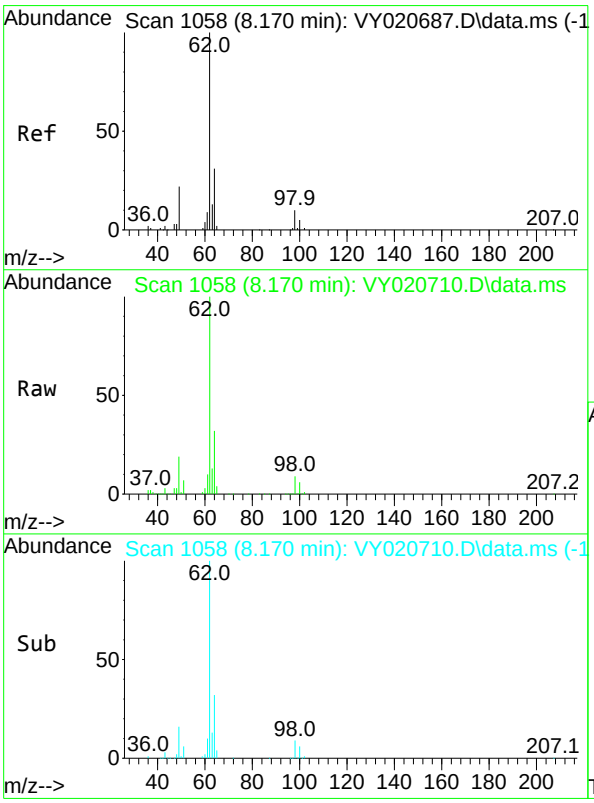

#41
Methacrylonitrile
Concen: 161.841 ug/l
RT: 7.225 min Scan# 9
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 41 Resp: 30977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 60.5 | 46.6 | 70.0 |
| 67 | 100.3 | 74.7 | 112.1 |
| 52 | 43.9 | 32.2 | 48.4 |

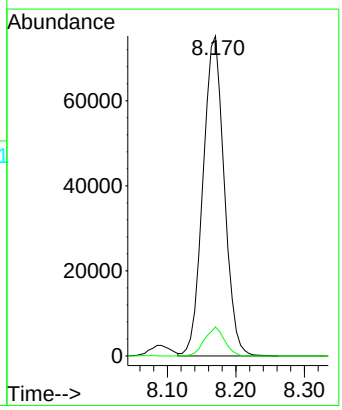


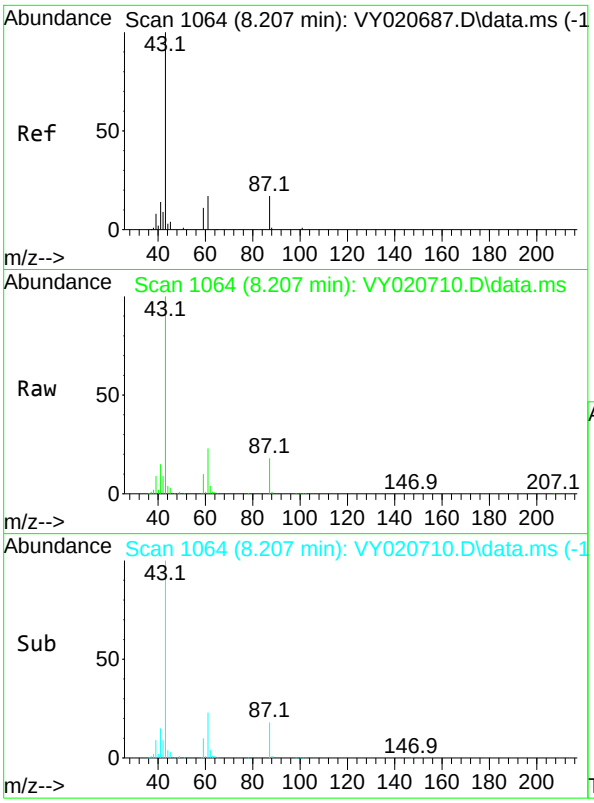




#42
1,2-Dichloroethane
Concen: 151.768 ug/l
RT: 8.170 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 62 Resp: 162177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.5 | 0.0 | 16.6 |



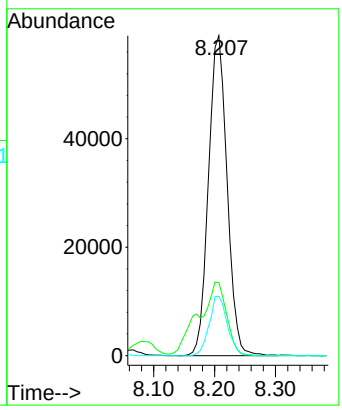


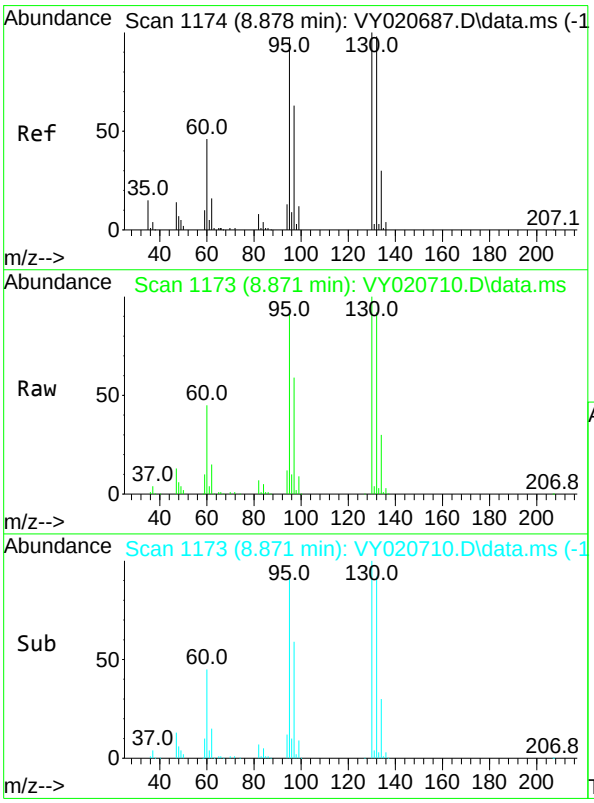

#43
Isopropyl Acetate
Concen: 155.741 ug/l
RT: 8.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 125433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 34.8 | 27.0 | 40.4 |
| 87 | 18.2 | 14.2 | 21.4 |

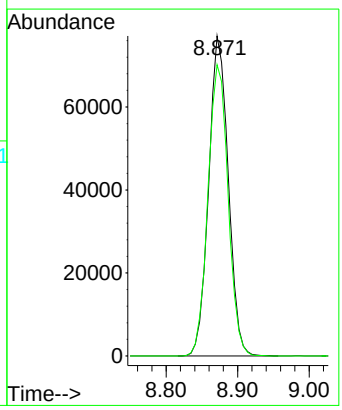


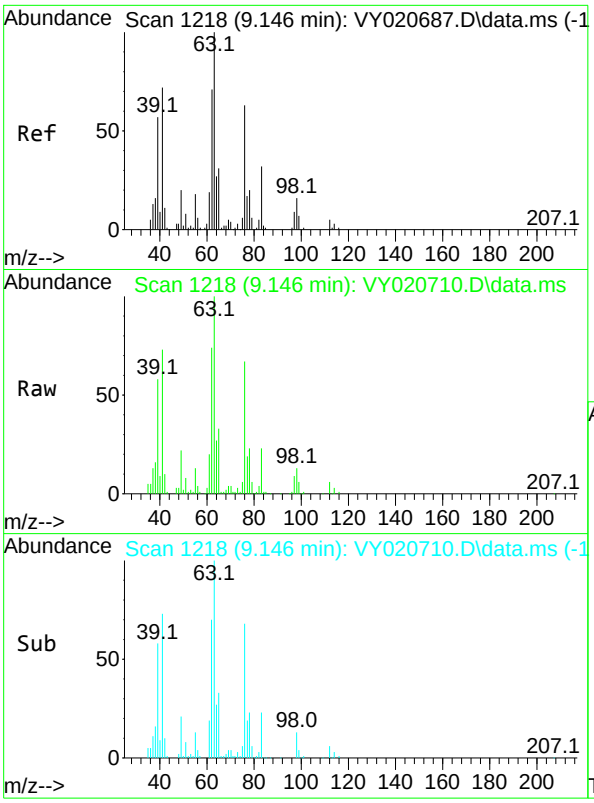




#44
Trichloroethene
Concen: 147.303 ug/l
RT: 8.871 min Scan# 1173
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:130 Resp: 146621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 91.0 | 0.0 | 194.8 |



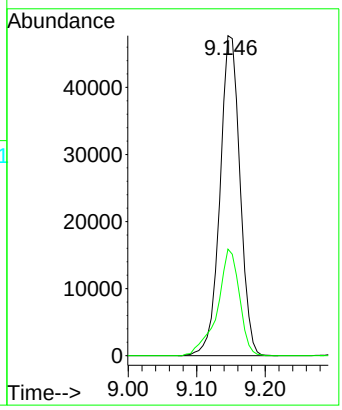


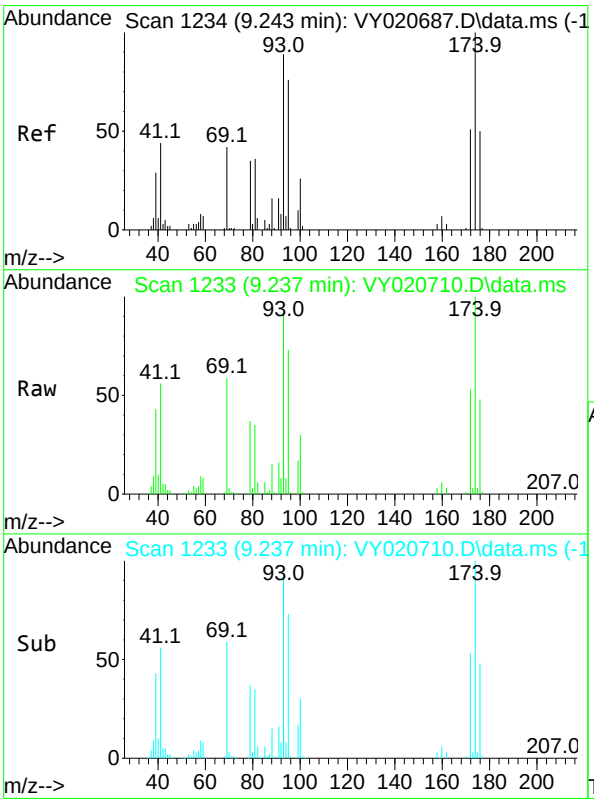

#45
1,2-Dichloropropane
Concen: 143.087 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 63 Resp: 96524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 33.3 | 24.6 | 36.8 |

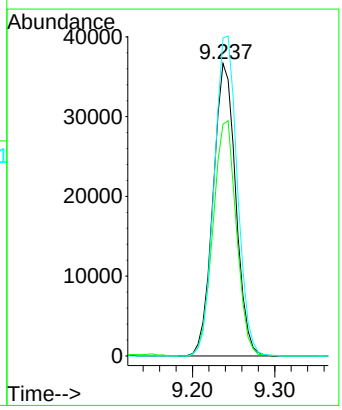


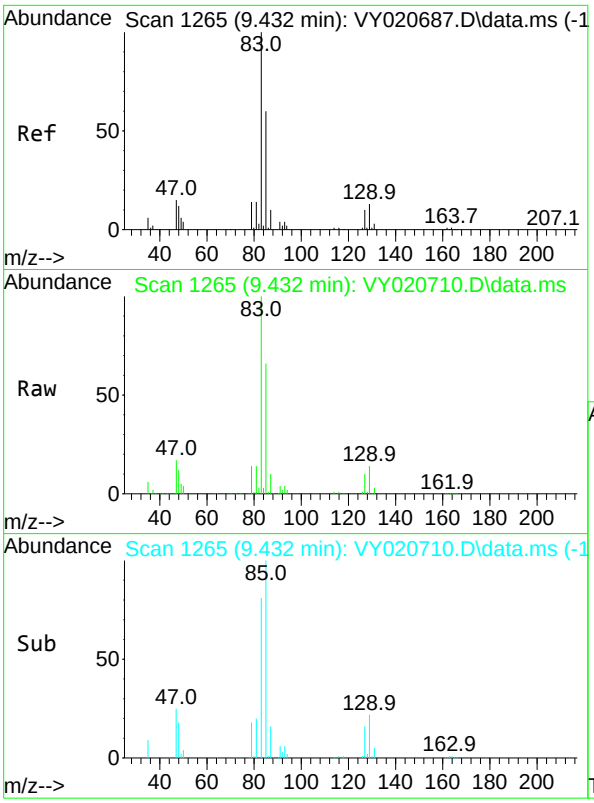




#46
Dibromomethane
Concen: 150.351 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 93 Resp: 70177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.6 | 67.8 | 101.8 |
| 174 | 111.6 | 89.4 | 134.0 |



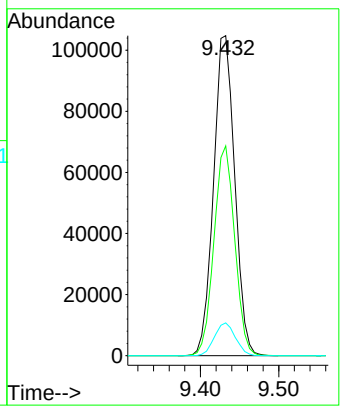


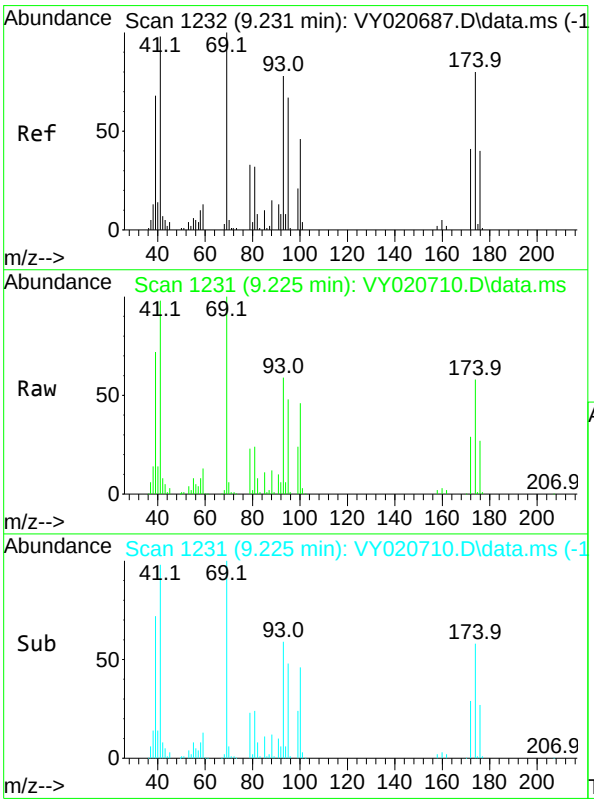

#47
Bromodichloromethane
Concen: 148.994 ug/l
RT: 9.432 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 197163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.5 | 47.6 | 71.4 |
| 127 | 10.3 | 7.9 | 11.9 |

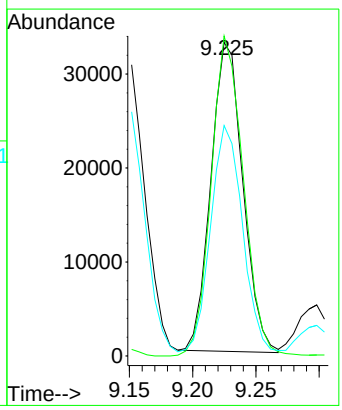


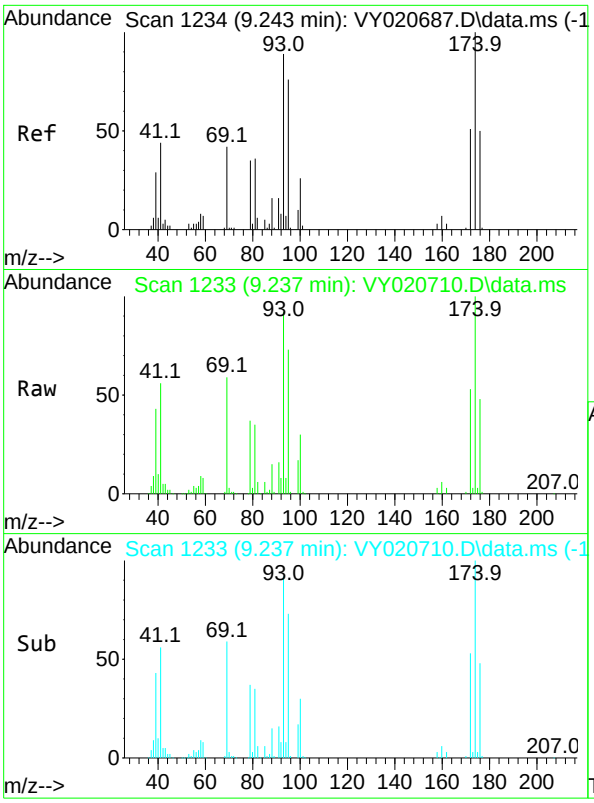




#48
Methyl methacrylate
Concen: 153.712 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 41 Resp: 57813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 104.1 | 83.1 | 124.7 |
| 39 | 73.2 | 57.3 | 85.9 |



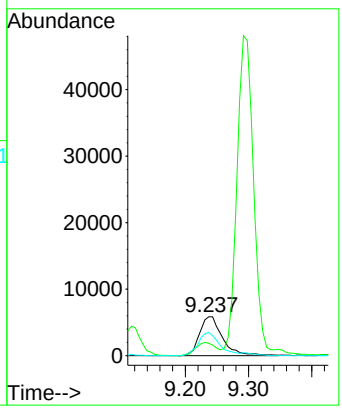


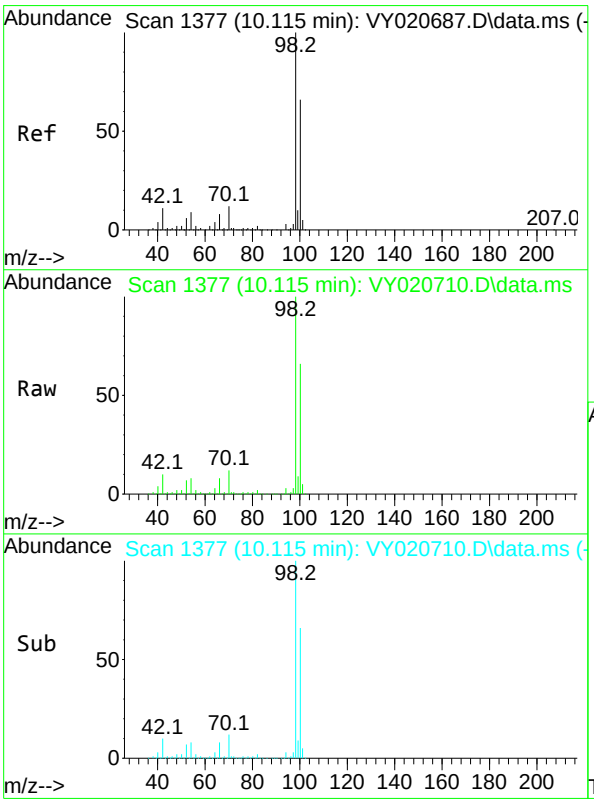

#49
1,4-Dioxane
Concen: 3331.078 ug/l
RT: 9.237 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 88 Resp: 14810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 22.1 | 33.1 |
| 58 | 59.7 | 46.7 | 70.1 |

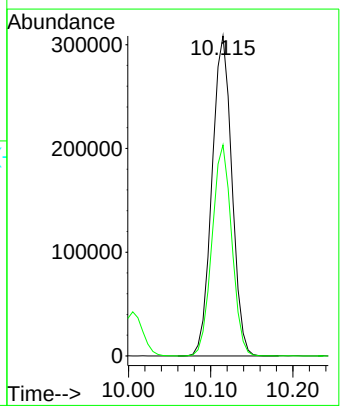


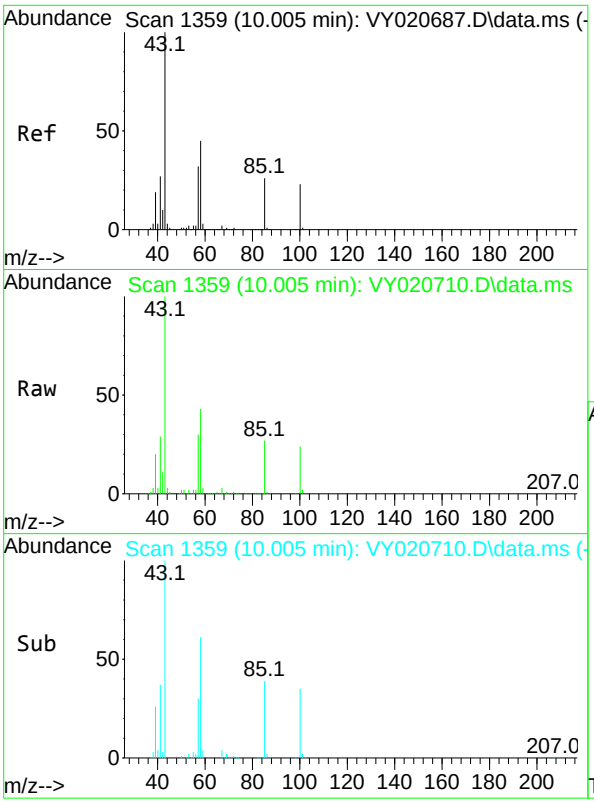




#50
Toluene-d8
Concen: 146.261 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 98 Resp: 518209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.5 | 52.2 | 78.4 |



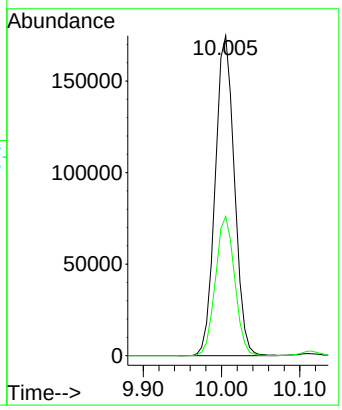


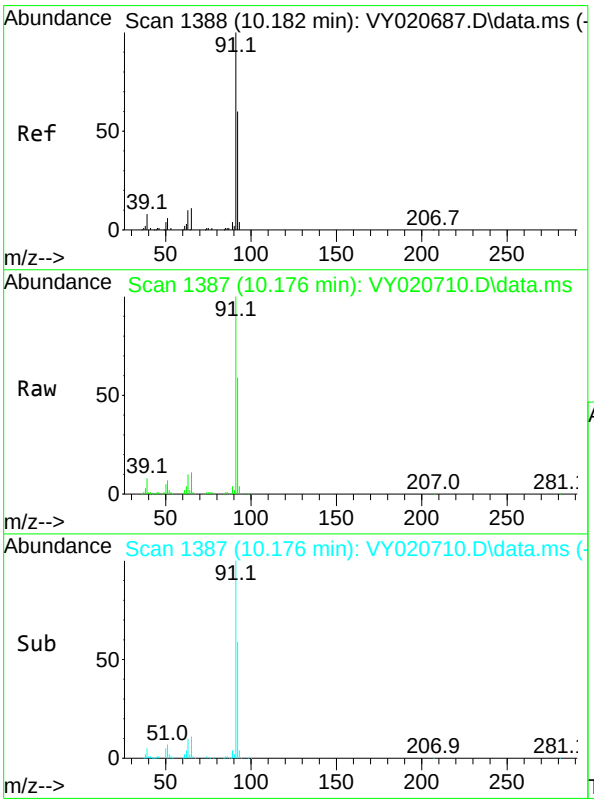

#51
4-Methyl-2-Pentanone
Concen: 766.010 ug/l
RT: 10.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 297779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.6 | 35.1 | 52.7 |

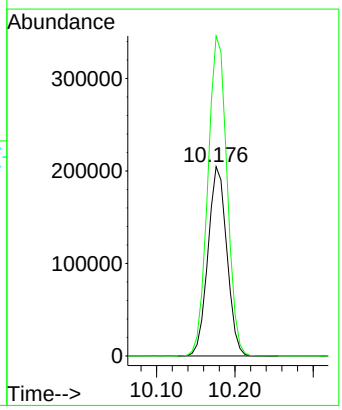


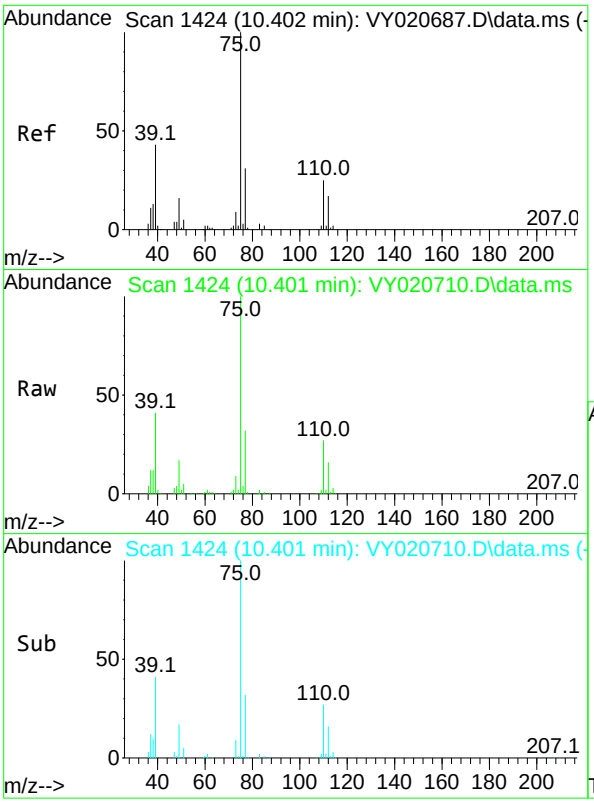




#52
Toluene
Concen: 149.994 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 92 Resp: 342599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 137.7 | 206.5 |



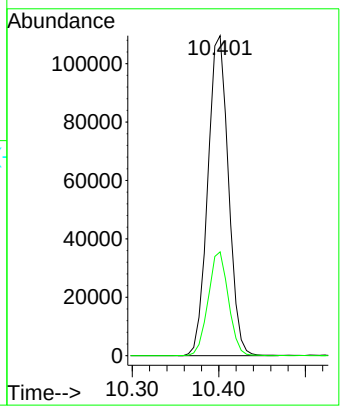


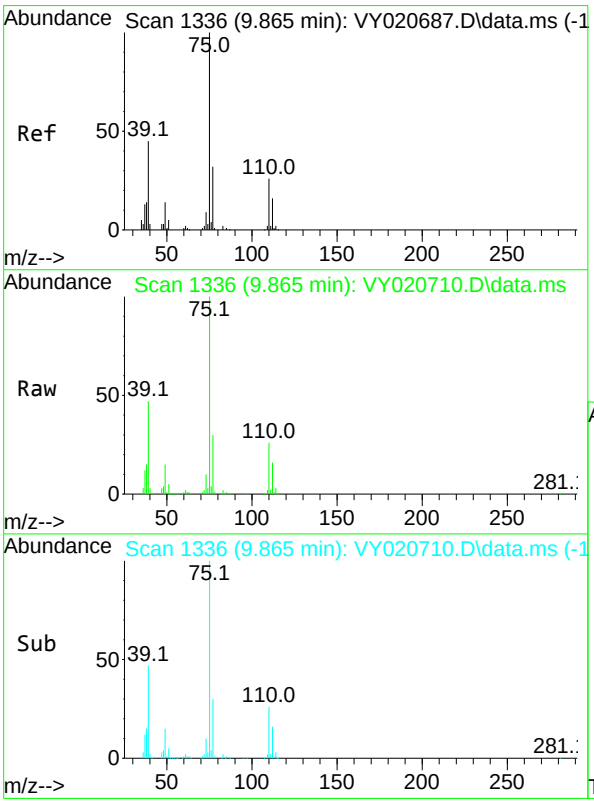

#53
t-1,3-Dichloropropene
Concen: 155.696 ug/l
RT: 10.401 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 75 Resp: 180957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.1 | 37.7 |

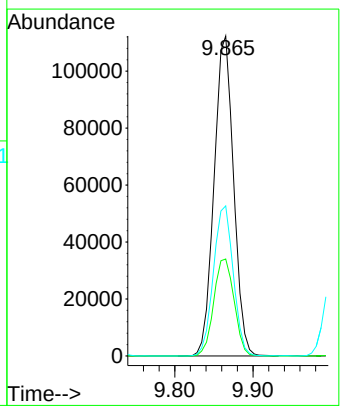


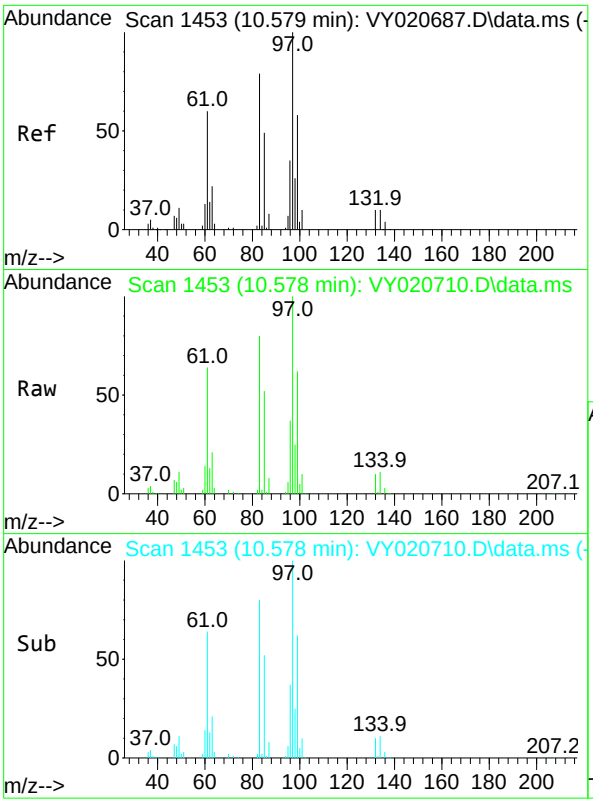




#54
cis-1,3-Dichloropropene
Concen: 152.747 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 75 Resp: 194591

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.3 | 25.6 | 38.4 |
| 39 | 46.9 | 36.2 | 54.2 |



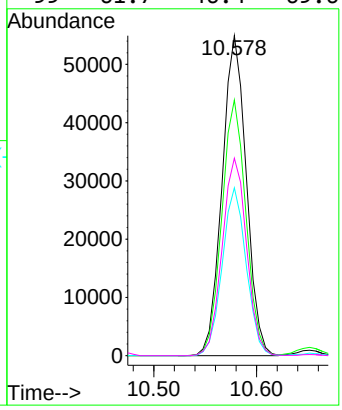


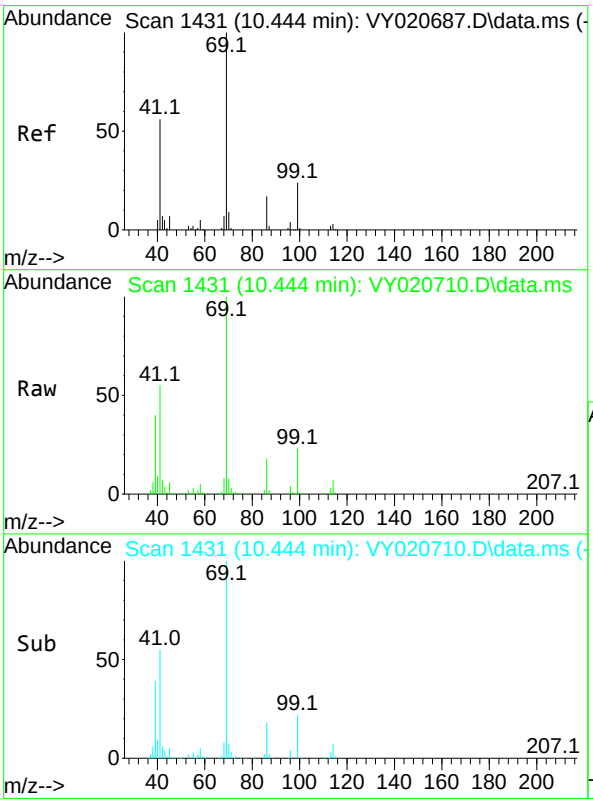

#55
1,1,2-Trichloroethane
Concen: 150.745 ug/l
RT: 10.578 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 97 Resp: 89814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 79.9 | 63.1 | 94.7 |
| 85 | 52.5 | 39.5 | 59.3 |
| 99 | 61.7 | 46.4 | 69.6 |

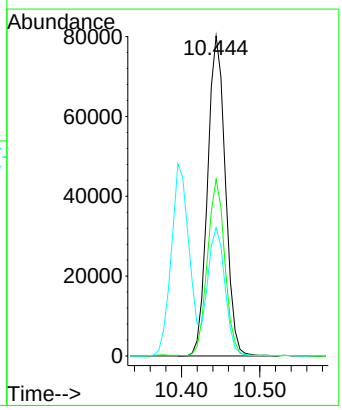


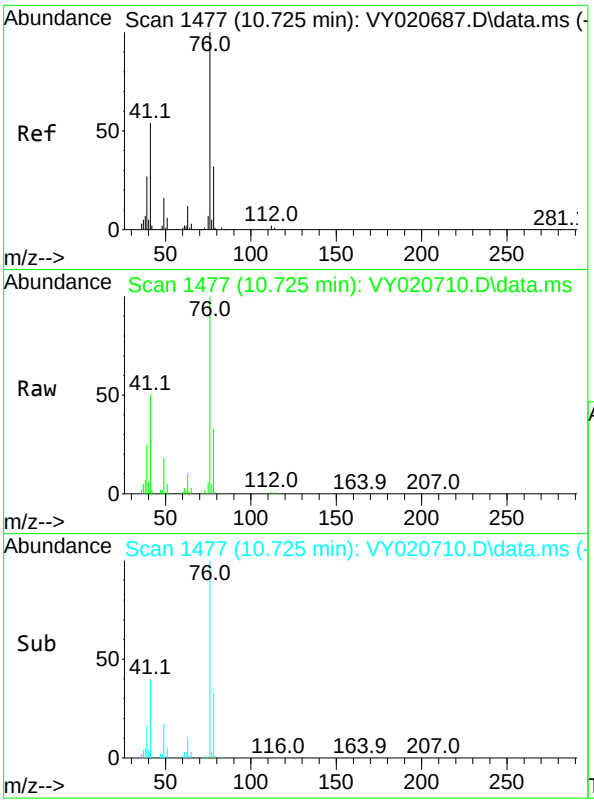




#56
Ethyl methacrylate
Concen: 160.965 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 69 Resp: 125990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 54.1 | 43.8 | 65.6 |
| 39 | 39.9 | 32.0 | 48.0 |



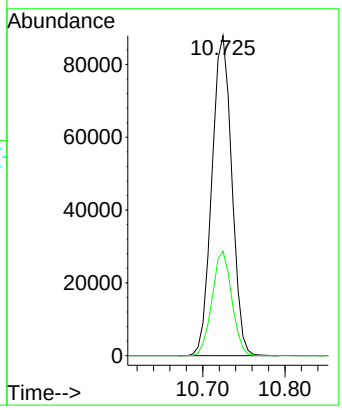


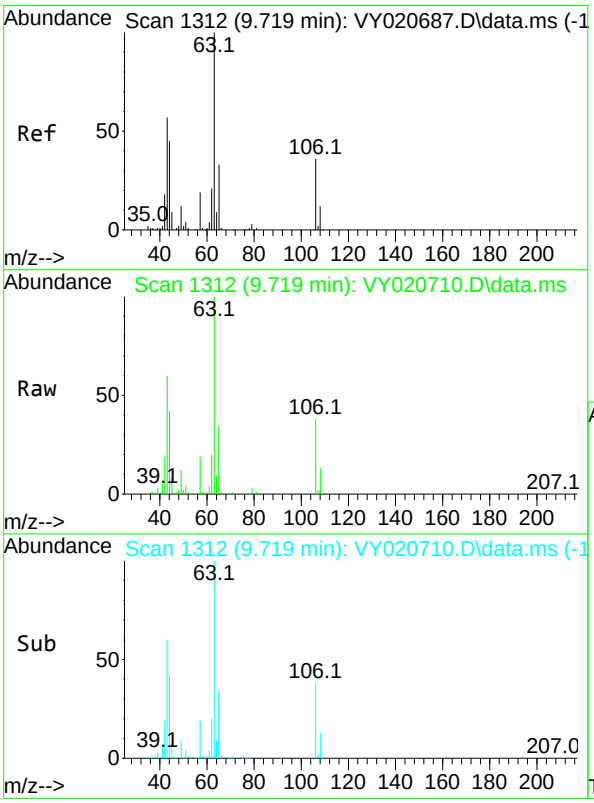

#57
1,3-Dichloropropane
Concen: 152.813 ug/l
RT: 10.725 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 76 Resp: 147770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.3 | 25.0 | 37.6 |

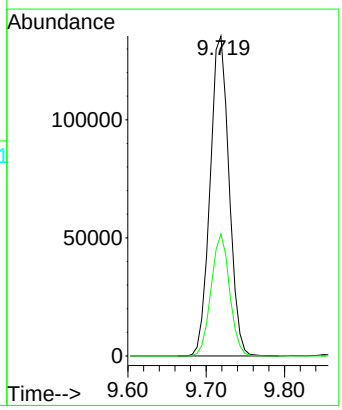


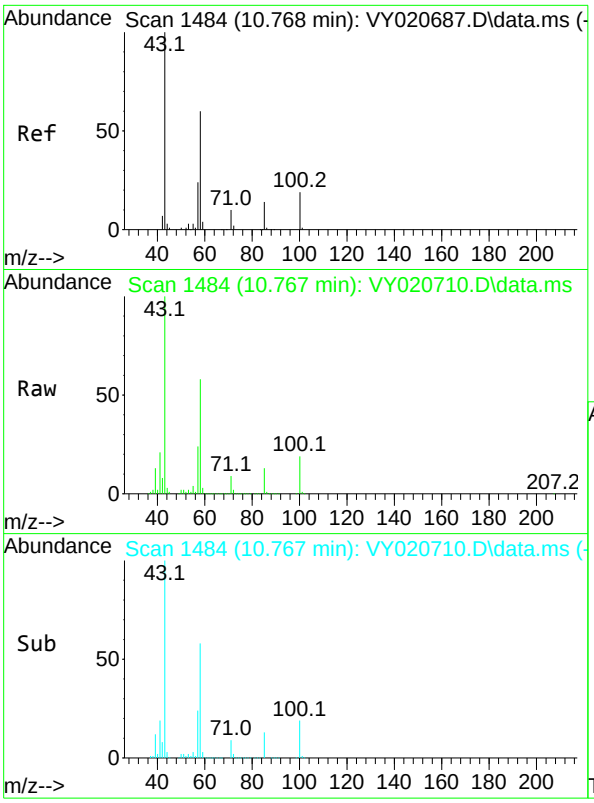




#58
2-Chloroethyl Vinyl ether
Concen: 833.052 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 63 Resp: 227376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 37.1 | 29.1 | 43.7 |



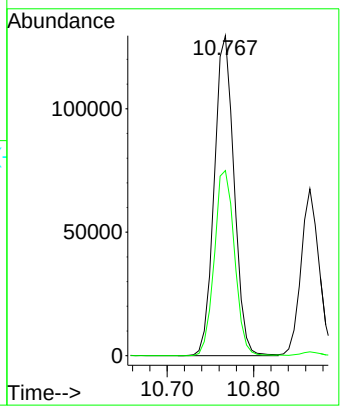


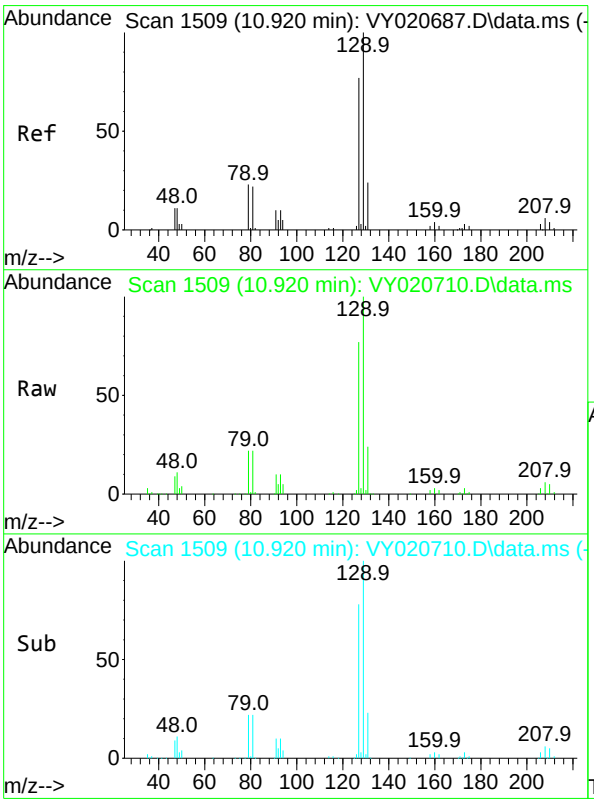

#59
2-Hexanone
Concen: 801.023 ug/l
RT: 10.767 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 205596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.2 | 30.1 | 90.5 |

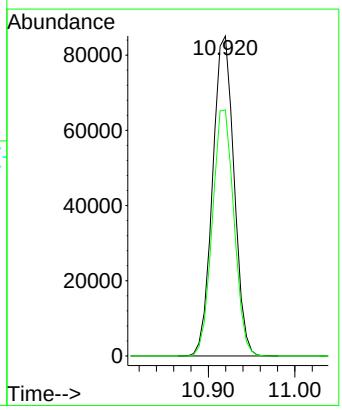


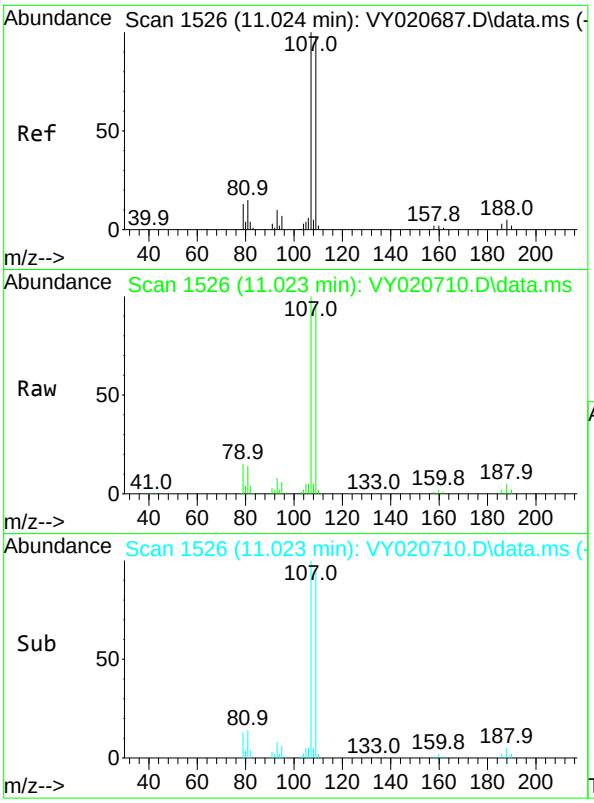




#60
Dibromochloromethane
Concen: 152.023 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:129 Resp: 146356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.6 | 38.5 | 115.5 |



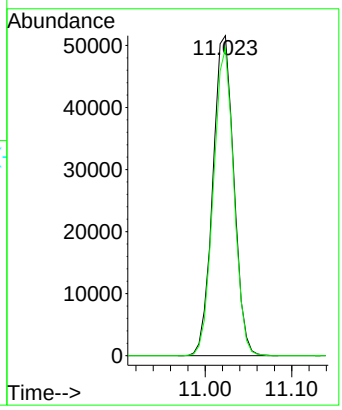


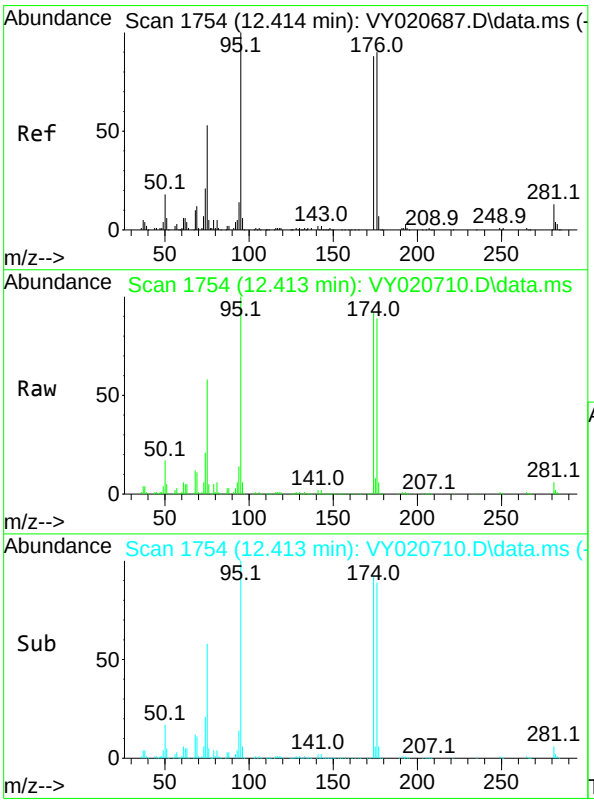

#61
1,2-Dibromoethane
Concen: 155.511 ug/l
RT: 11.023 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:107 Resp: 87182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.3 | 75.5 | 113.3 |

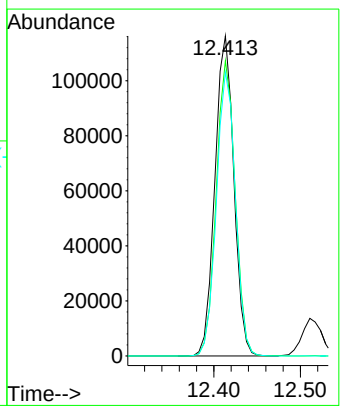


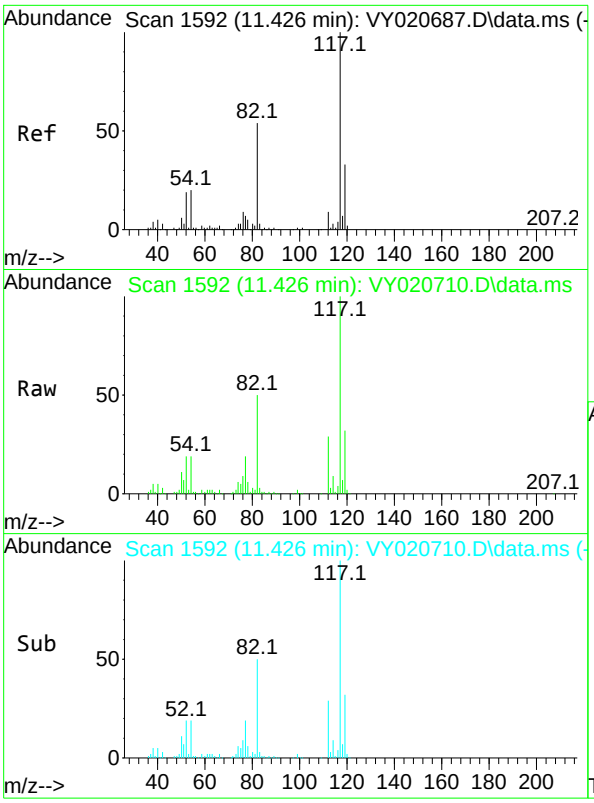




#62
4-Bromofluorobenzene
Concen: 152.741 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 95 Resp: 176701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 92.3 | 0.0 | 179.2 |
| 176 | 89.0 | 0.0 | 179.8 |



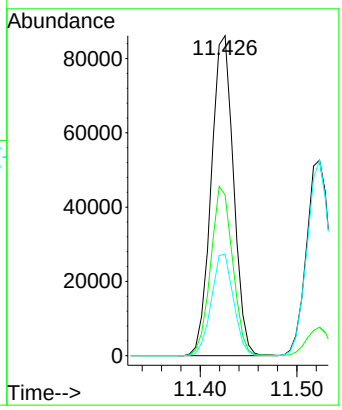


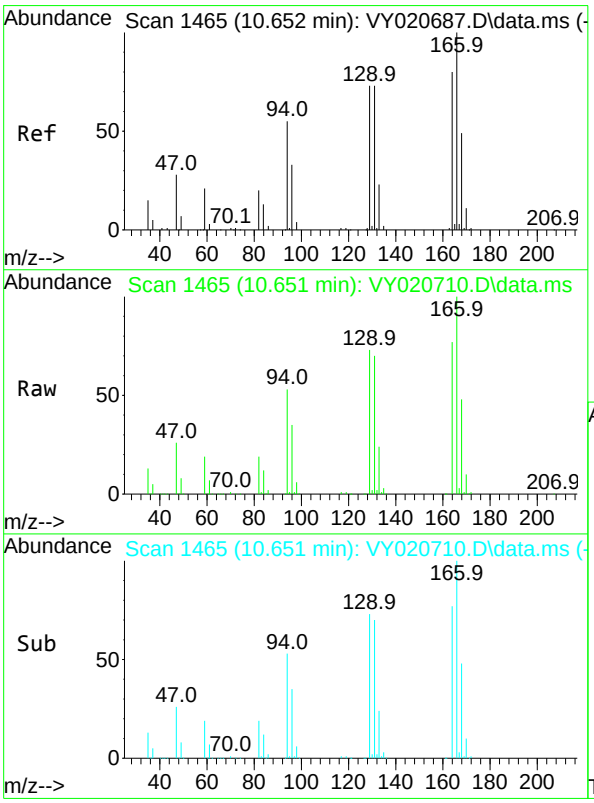

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:117 Resp: 137996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.2 | 43.4 | 65.2 |
| 119 | 31.8 | 26.6 | 39.8 |

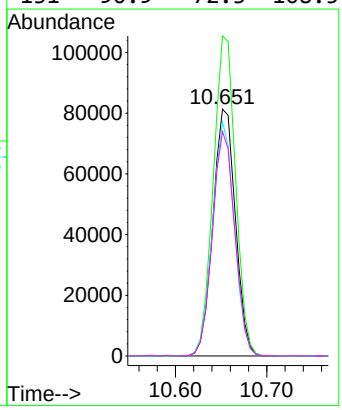


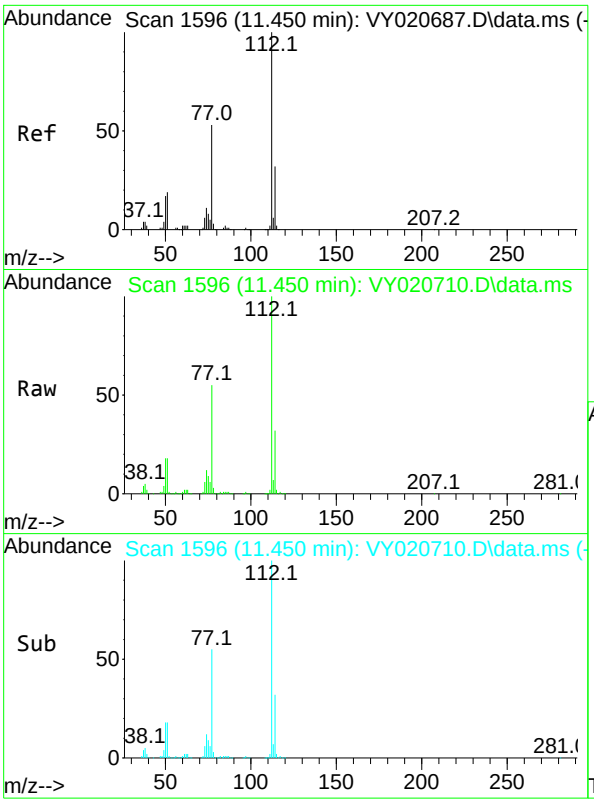




#64
Tetrachloroethene
Concen: 147.787 ug/l
RT: 10.651 min Scan# 1465
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:164 Resp: 139334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 129.6 | 99.6 | 149.4 |
| 129 | 94.8 | 73.0 | 109.4 |
| 131 | 90.9 | 72.3 | 108.5 |



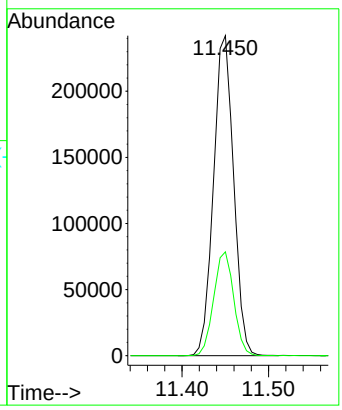


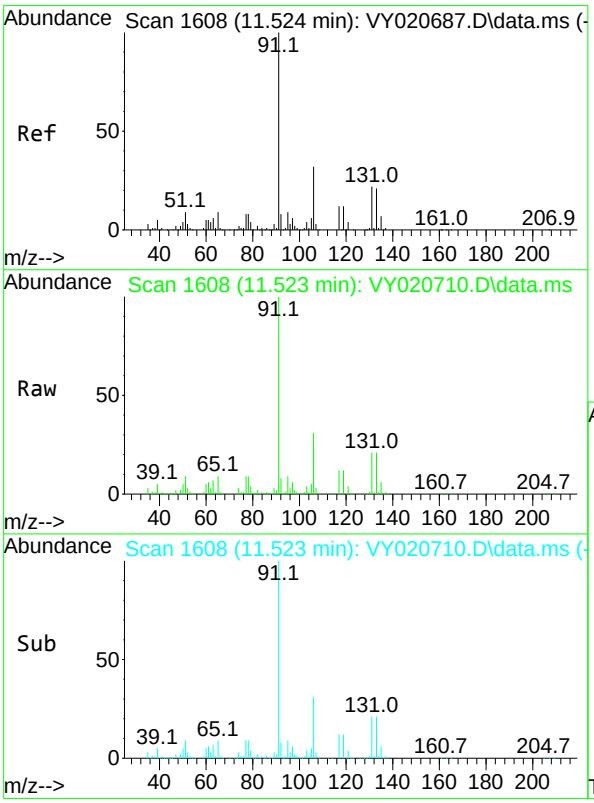

#65
Chlorobenzene
Concen: 144.451 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:112 Resp: 390317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.4 | 25.4 | 38.0 |

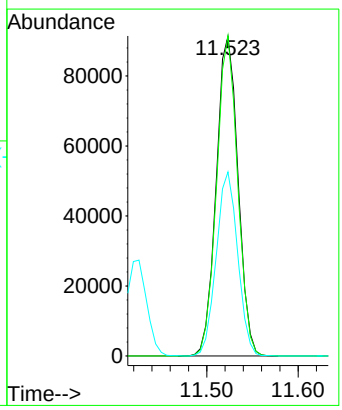


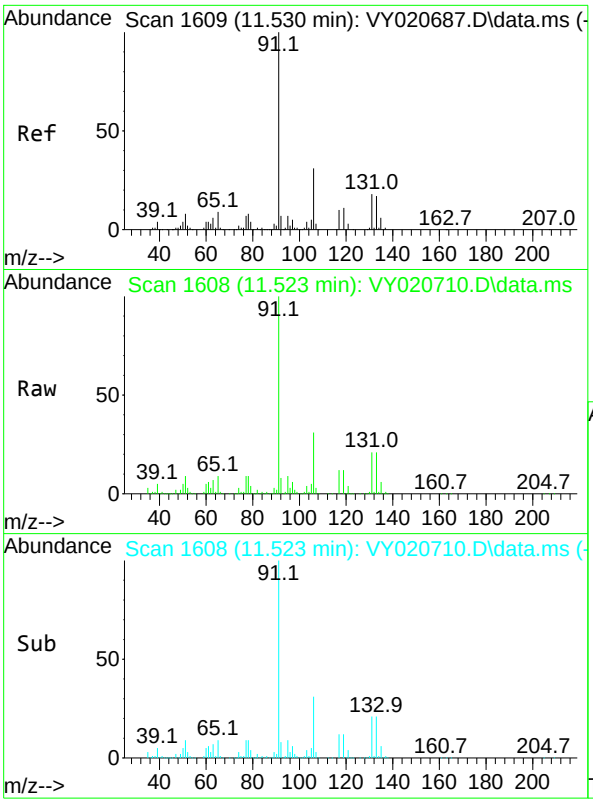




#66
1,1,1,2-Tetrachloroethane
Concen: 144.626 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:131 Resp: 151401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.5 | 48.6 | 145.9 |
| 119 | 56.7 | 28.4 | 85.3 |



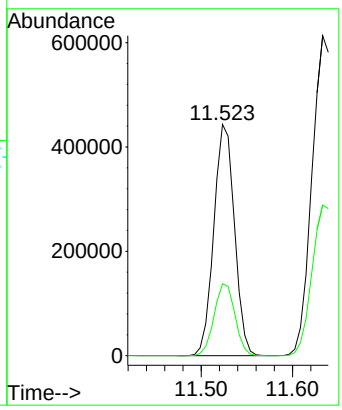


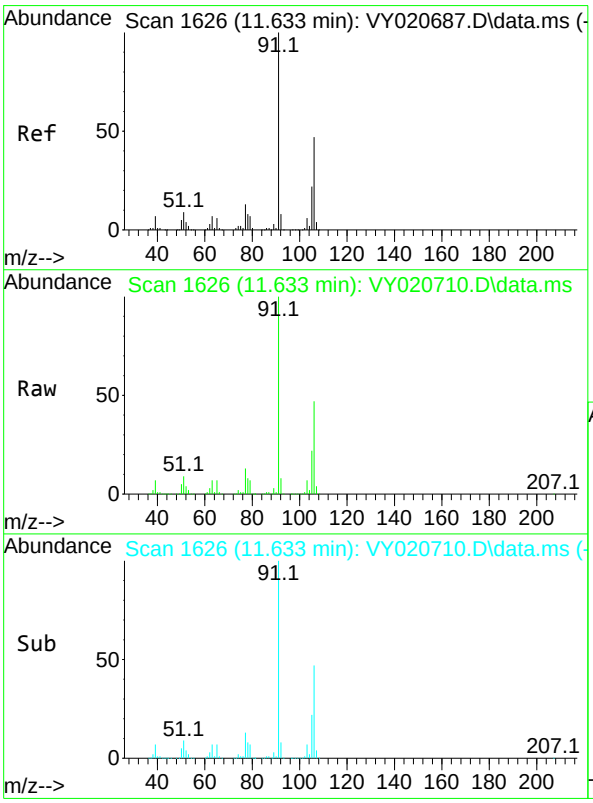

#67
Ethyl Benzene
Concen: 147.444 ug/l
RT: 11.523 min Scan# 1
Delta R.T. -0.007 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 696321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 24.5 | 36.7 |

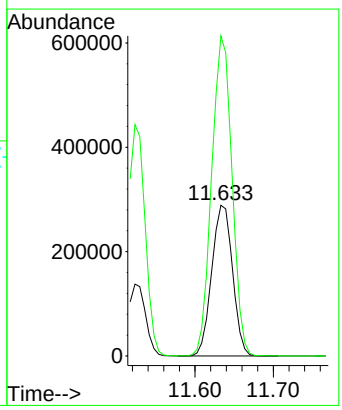


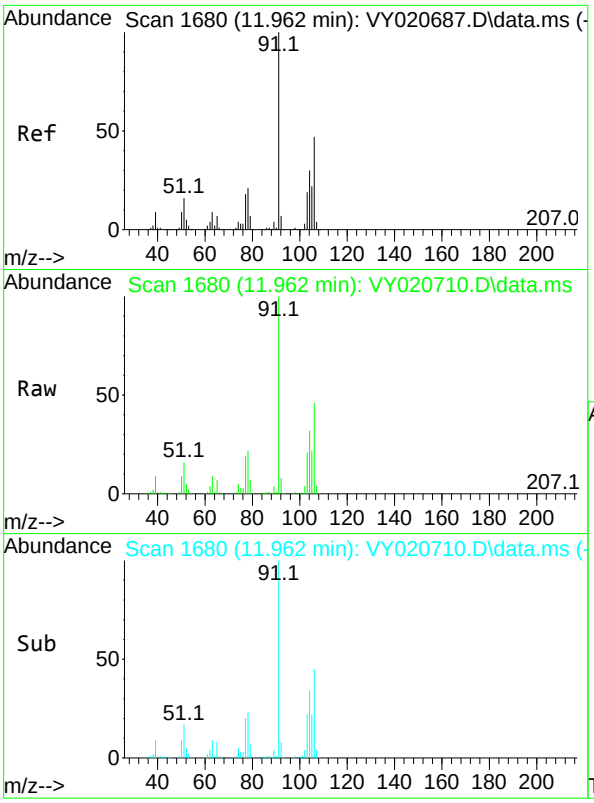




#68
m/p-Xylenes
Concen: 295.699 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:106 Resp: 532697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.1 | 166.6 | 250.0 |



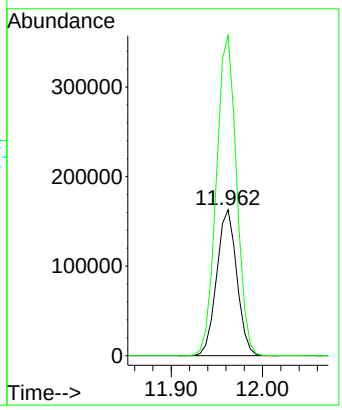


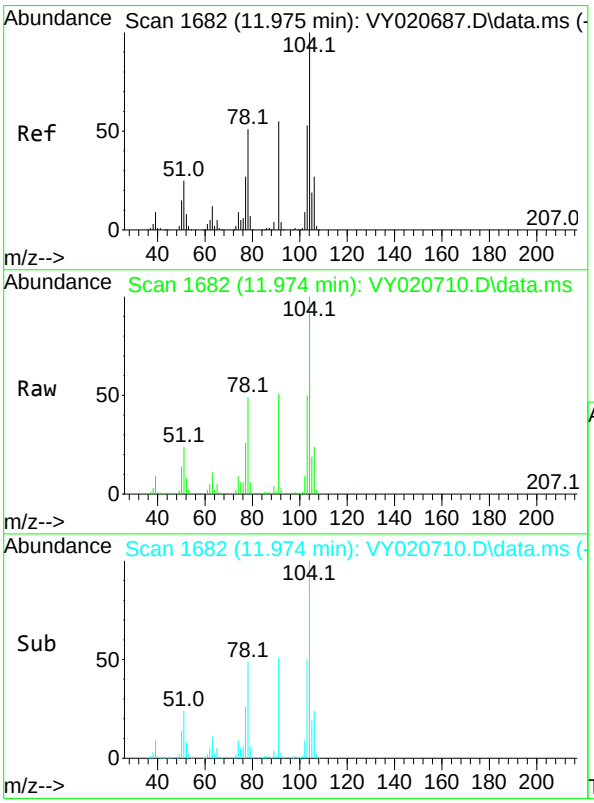

#69
o-Xylene
Concen: 145.003 ug/l
RT: 11.962 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:106 Resp: 249576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 220.3 | 108.6 | 325.8 |

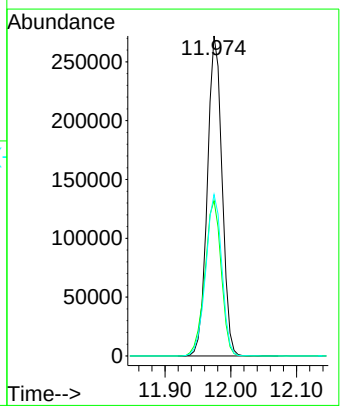


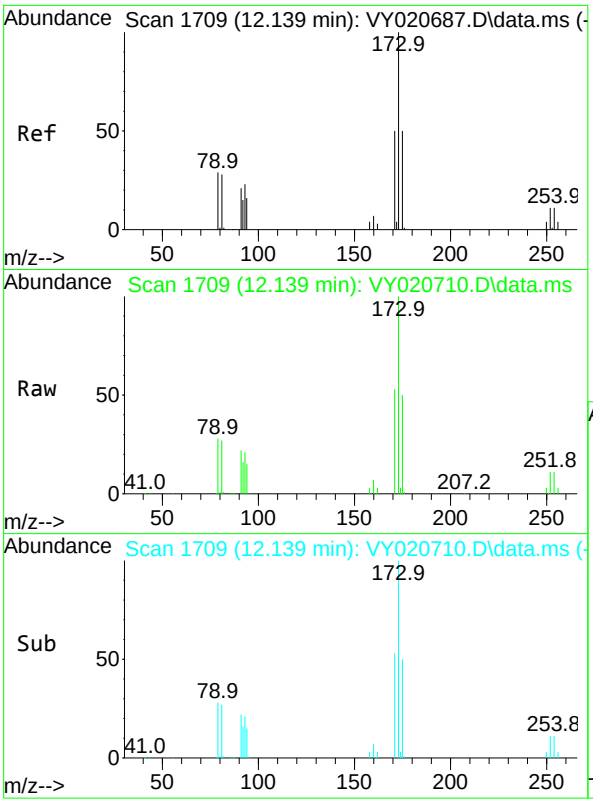




#70
Styrene
Concen: 146.372 ug/l
RT: 11.974 min Scan# 1682
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:104 Resp: 422920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.9 | 43.0 | 64.4 |
| 103 | 55.1 | 44.4 | 66.6 |



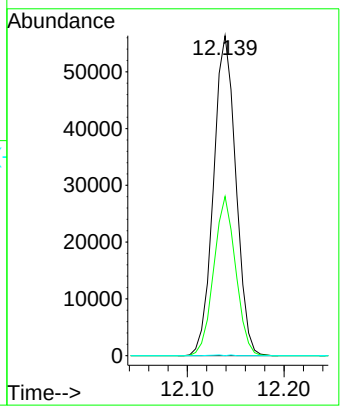


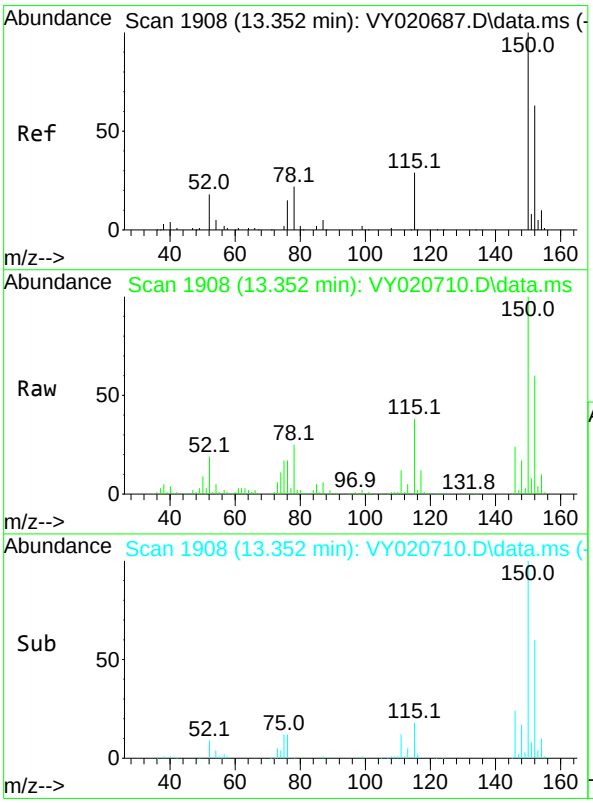

#71
Bromoform
Concen: 150.242 ug/l
RT: 12.139 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:173 Resp: 90423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.7 | 24.2 | 72.6 |
| 254 | 0.2 | 0.0 | 0.0# |

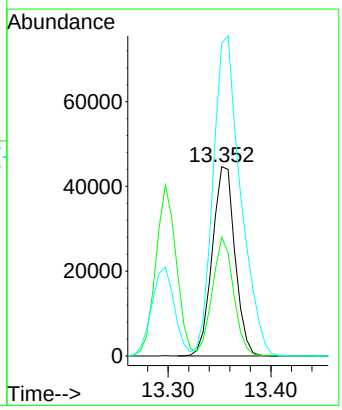


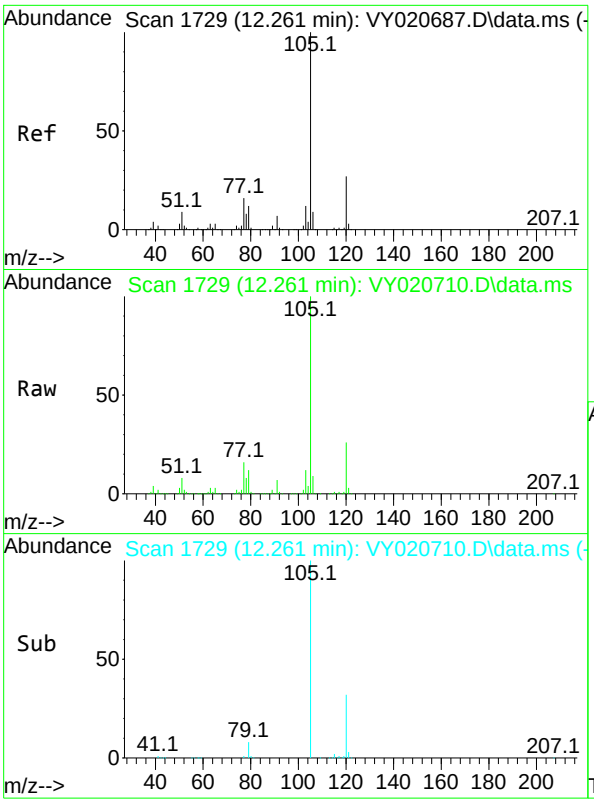




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:152 Resp: 68495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.5 | 30.3 | 90.9 |
| 150 | 205.0 | 0.0 | 349.0 |



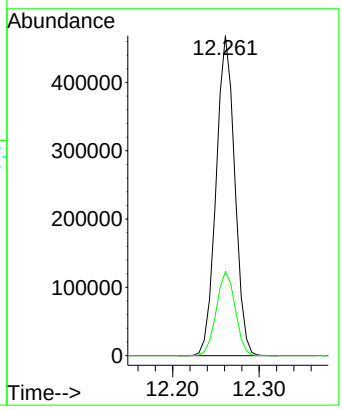


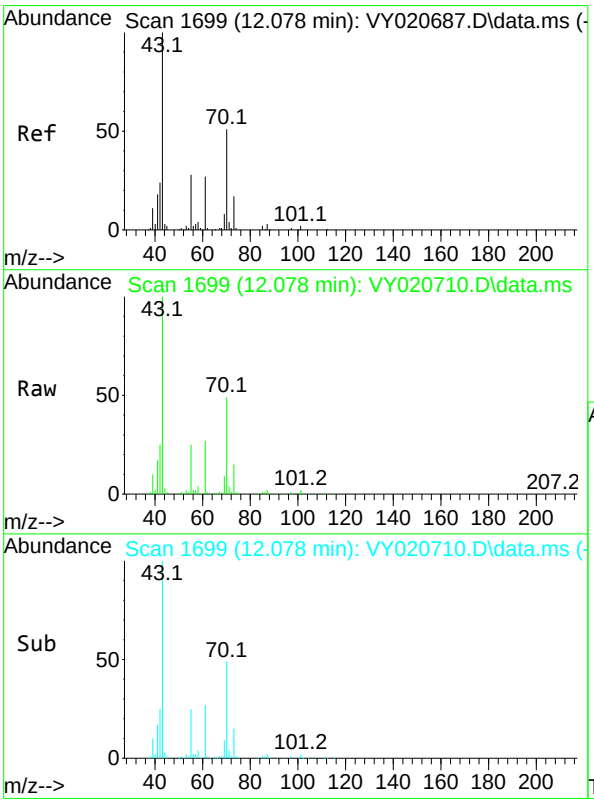

#73
Isopropylbenzene
Concen: 147.320 ug/l
RT: 12.261 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:105 Resp: 699104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.7 | 13.3 | 39.9 |

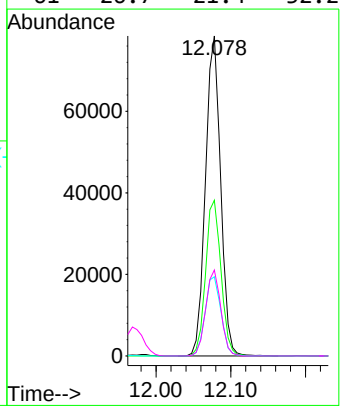


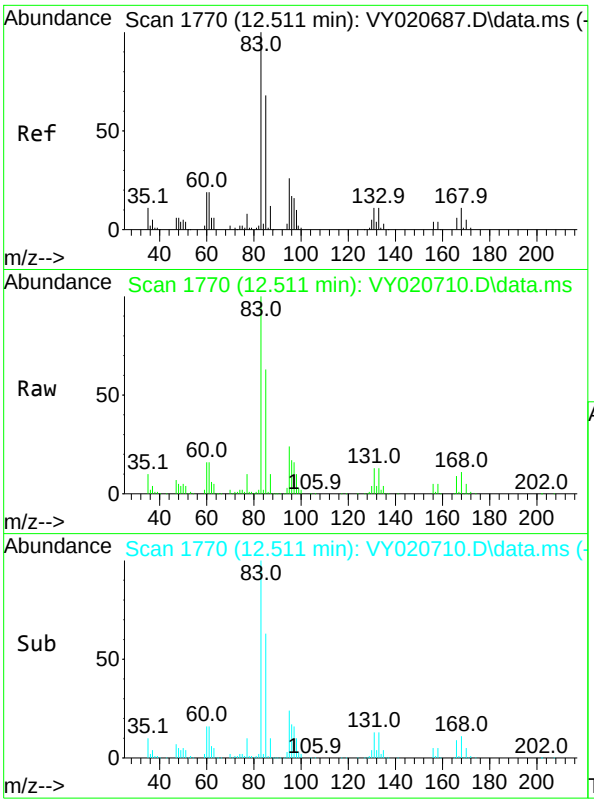




#74
N-amyl acetate
Concen: 164.040 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 43 Resp: 110622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.4 | 39.7 | 59.5 |
| 55 | 25.9 | 21.5 | 32.3 |
| 61 | 26.7 | 21.4 | 32.2 |



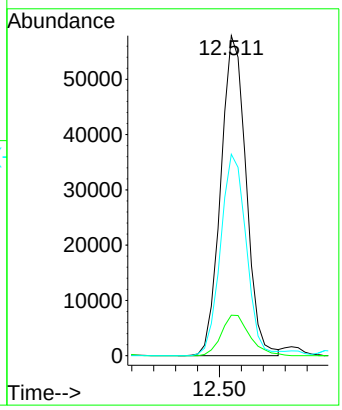


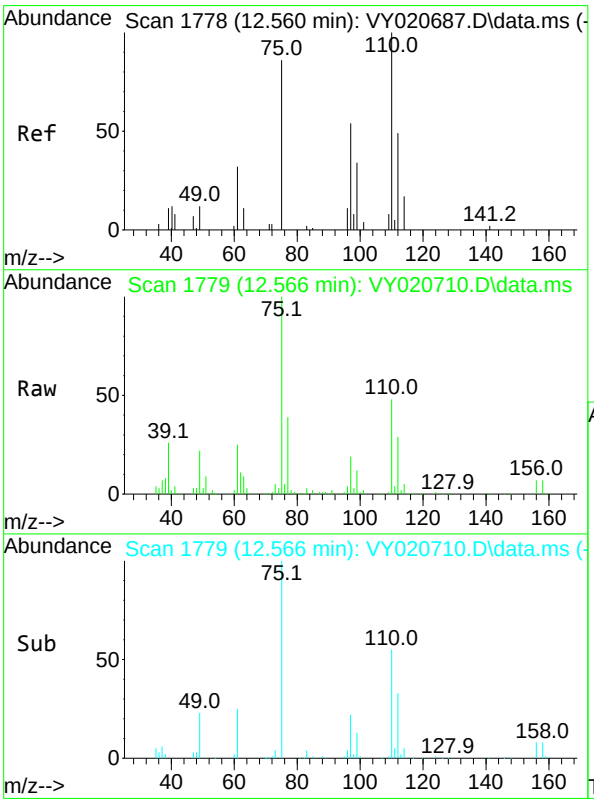

#75
1,1,2,2-Tetrachloroethane
Concen: 152.263 ug/l
RT: 12.511 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 92629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.2 | 6.9 | 20.7 |
| 85 | 64.0 | 32.5 | 97.4 |

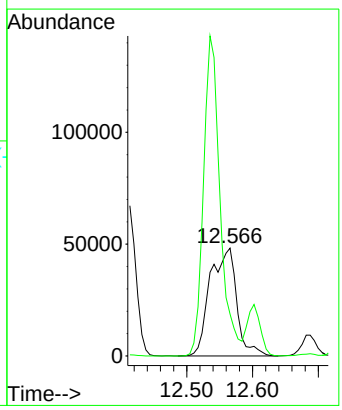


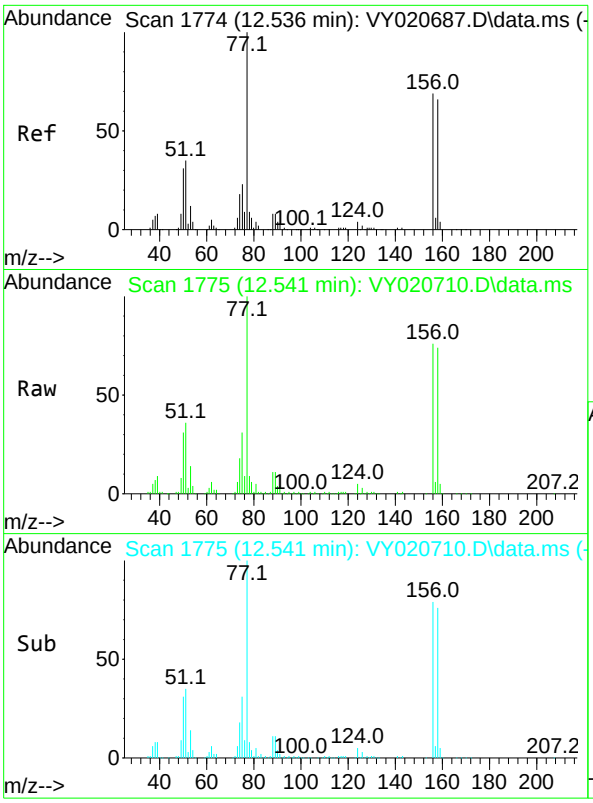




#76
1,2,3-Trichloropropane
Concen: 252.099 ug/l
RT: 12.566 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 75 Resp: 136207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



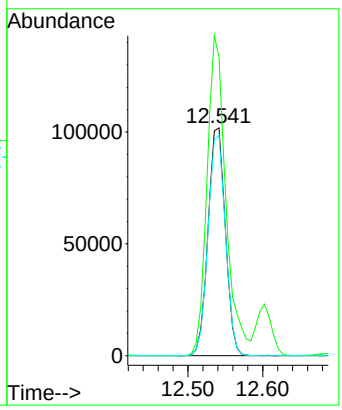


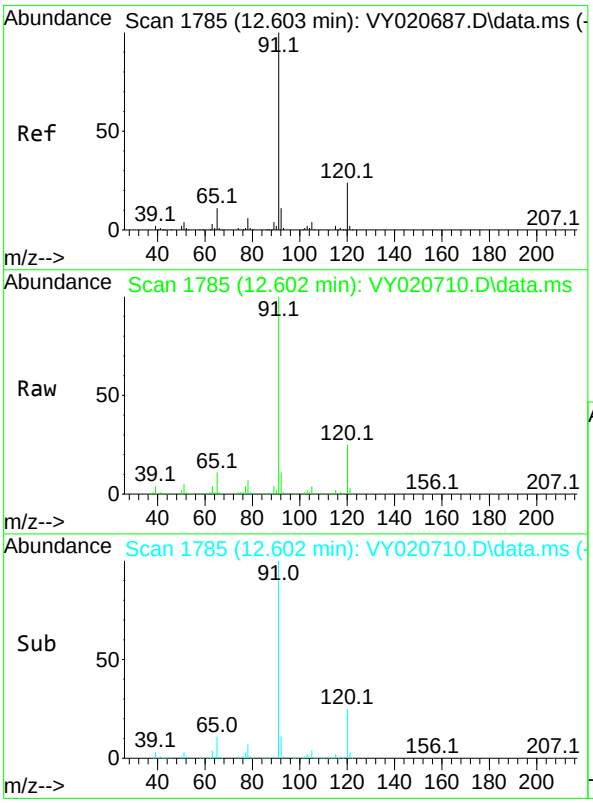

#77
Bromobenzene
Concen: 149.824 ug/l
RT: 12.541 min Scan# 1
Delta R.T. 0.005 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:156 Resp: 163665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 153.7 | 78.3 | 235.0 |
| 158 | 97.6 | 48.3 | 144.9 |

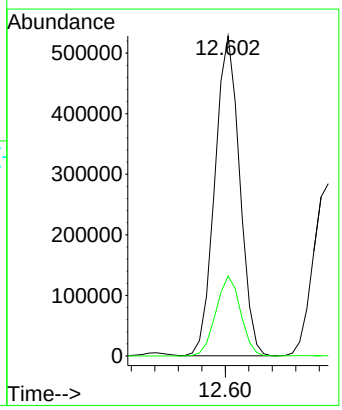


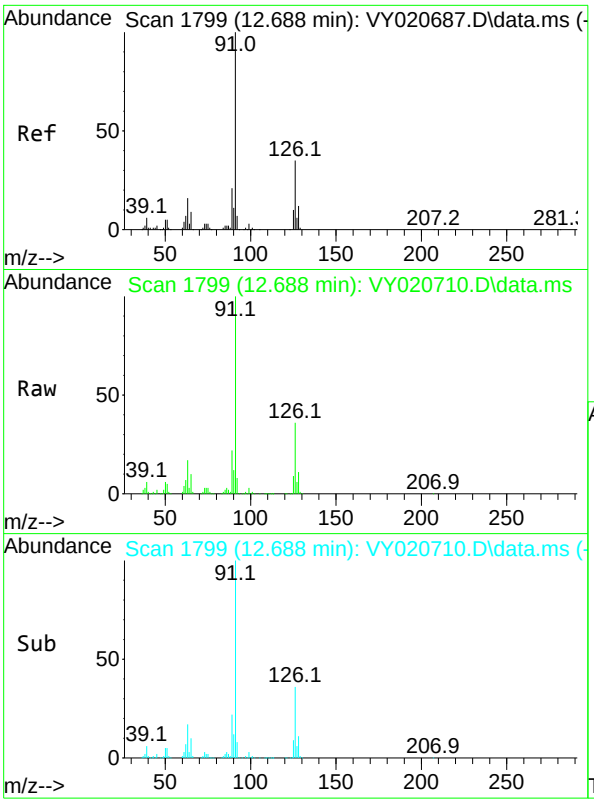




#78
n-propylbenzene
Concen: 145.797 ug/l
RT: 12.602 min Scan# 1785
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 91 Resp: 775459

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.8 | 12.3 | 36.8 |



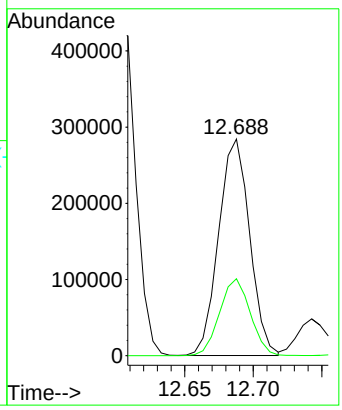


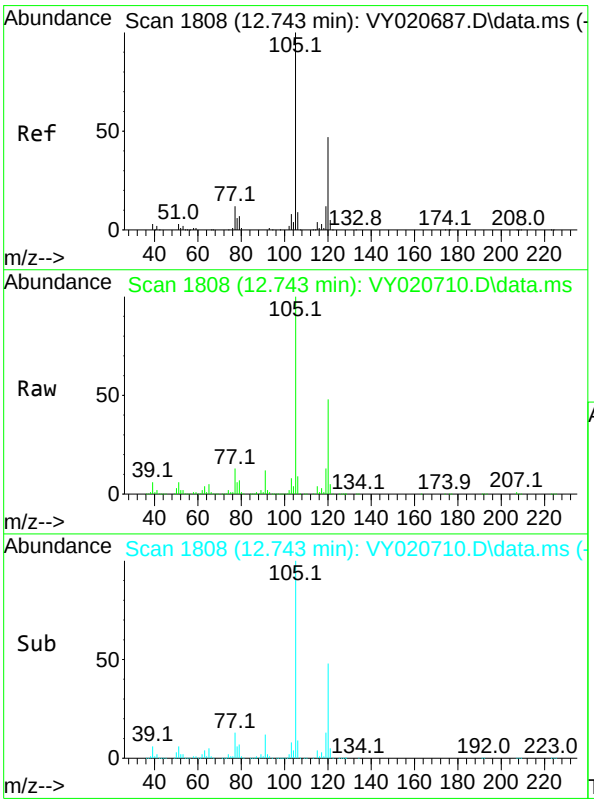

#79
2-Chlorotoluene
Concen: 147.735 ug/l
RT: 12.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 447942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.1 | 17.8 | 53.3 |

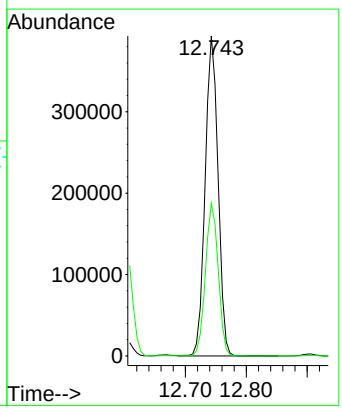


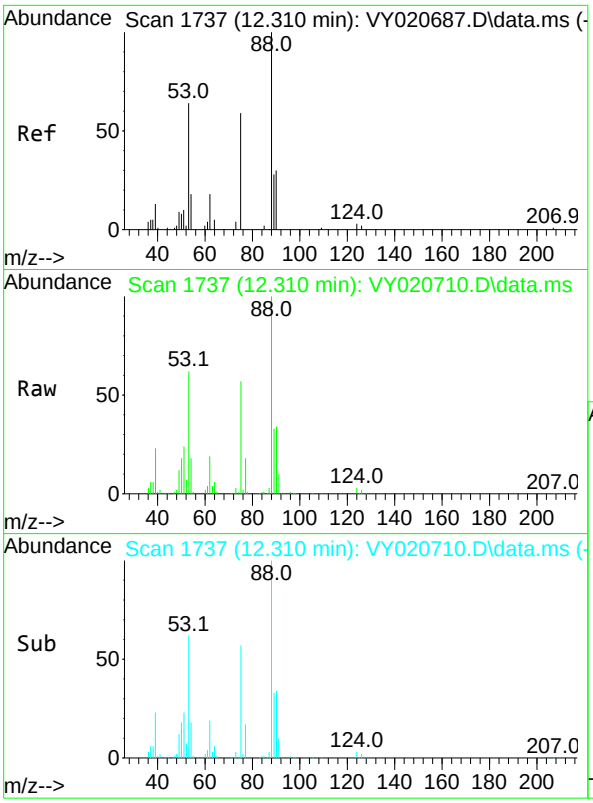




#80
1,3,5-Trimethylbenzene
Concen: 146.144 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:105 Resp: 577812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.4 | 23.9 | 71.7 |



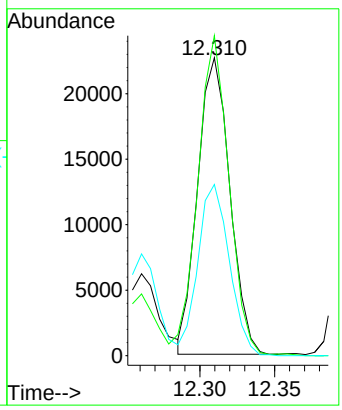


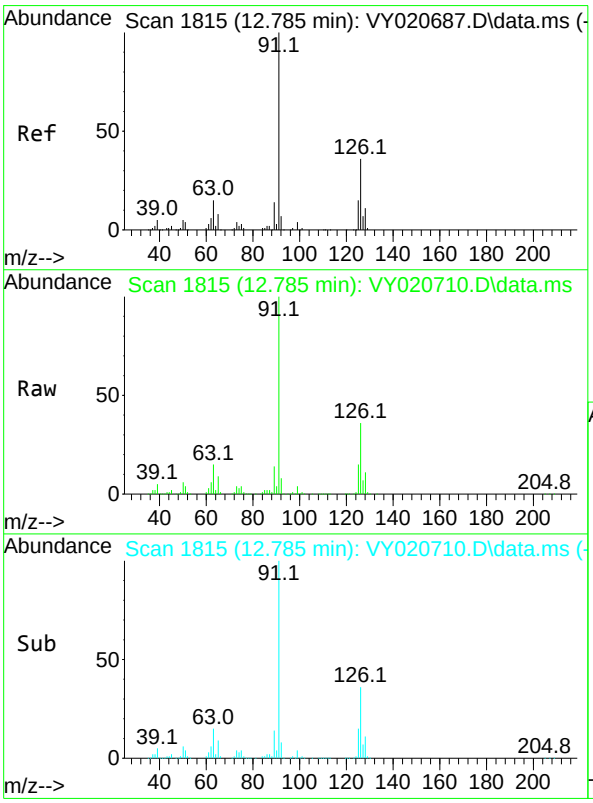

#81
trans-1,4-Dichloro-2-butene
Concen: 154.104 ug/l
RT: 12.310 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 75 Resp: 33964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 104.7 | 83.1 | 124.7 |
| 89 | 56.3 | 40.6 | 61.0 |

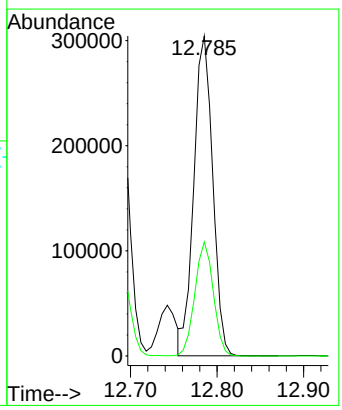


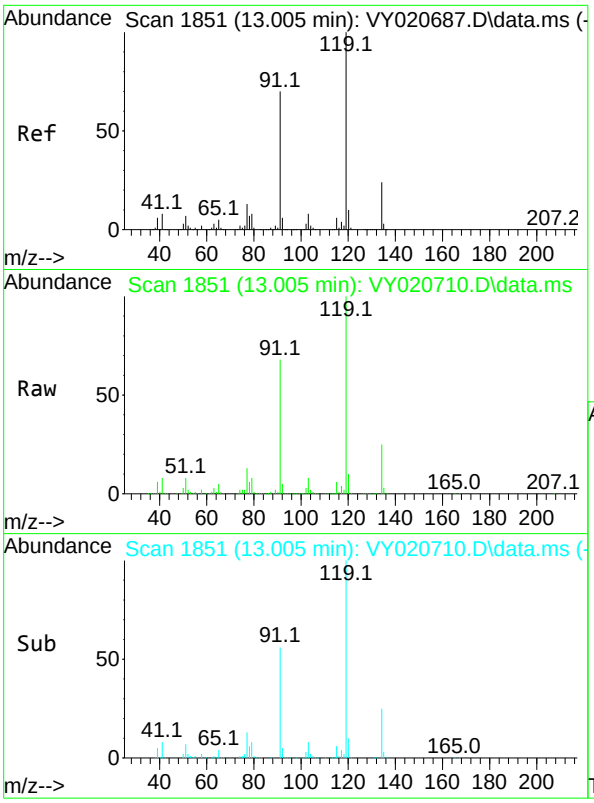




#82
4-Chlorotoluene
Concen: 146.900 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 91 Resp: 460319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.8 | 53.5 |



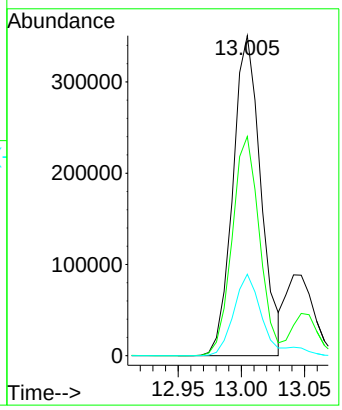


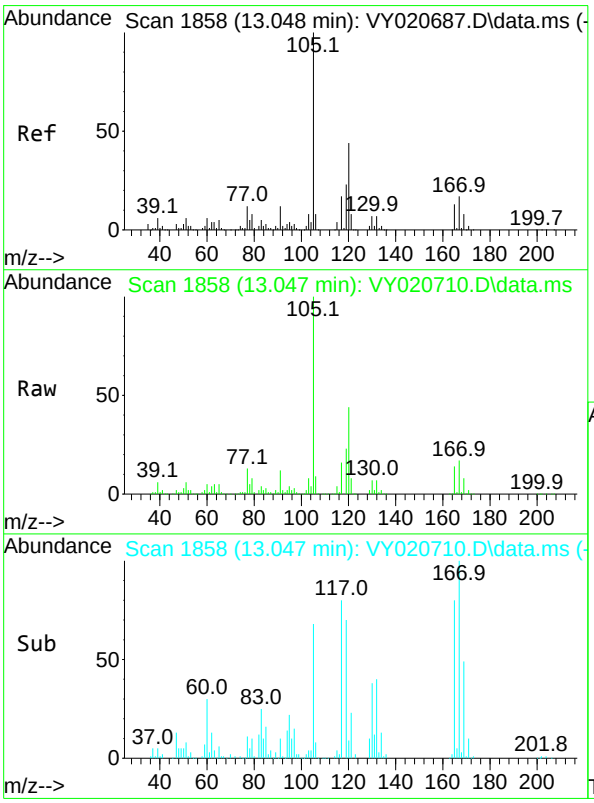

#83
tert-Butylbenzene
Concen: 146.461 ug/l
RT: 13.005 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:119 Resp: 540775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 66.7 | 33.6 | 100.8 |
| 134 | 26.6 | 13.4 | 40.2 |

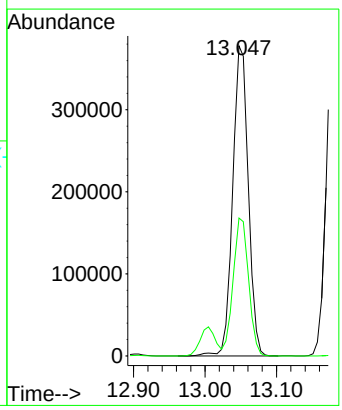


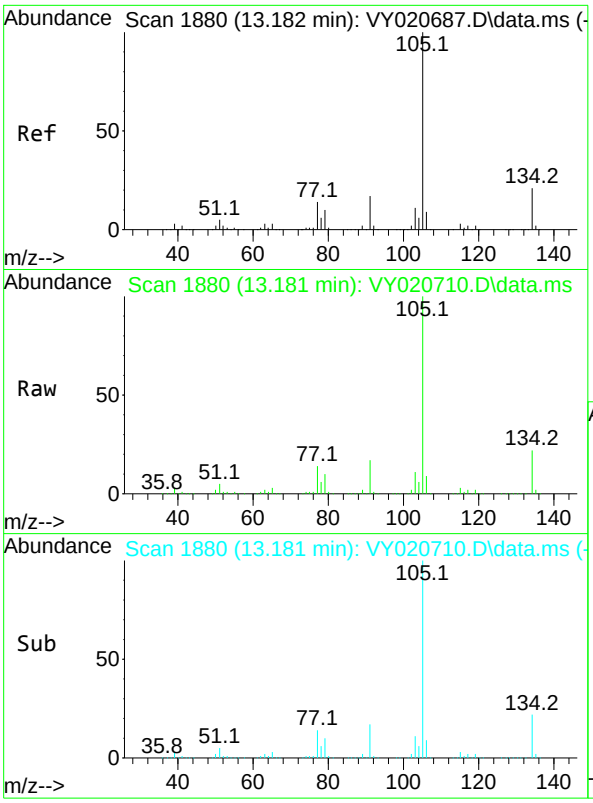




#84
1,2,4-Trimethylbenzene
Concen: 148.302 ug/l
RT: 13.047 min Scan# 1858
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:105 Resp: 570579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.3 | 21.8 | 65.3 |



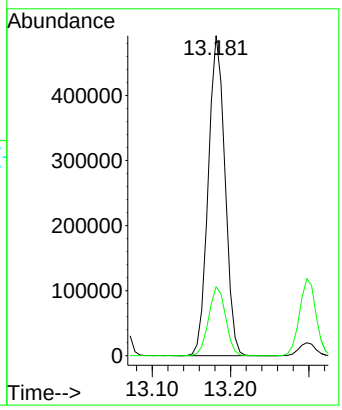


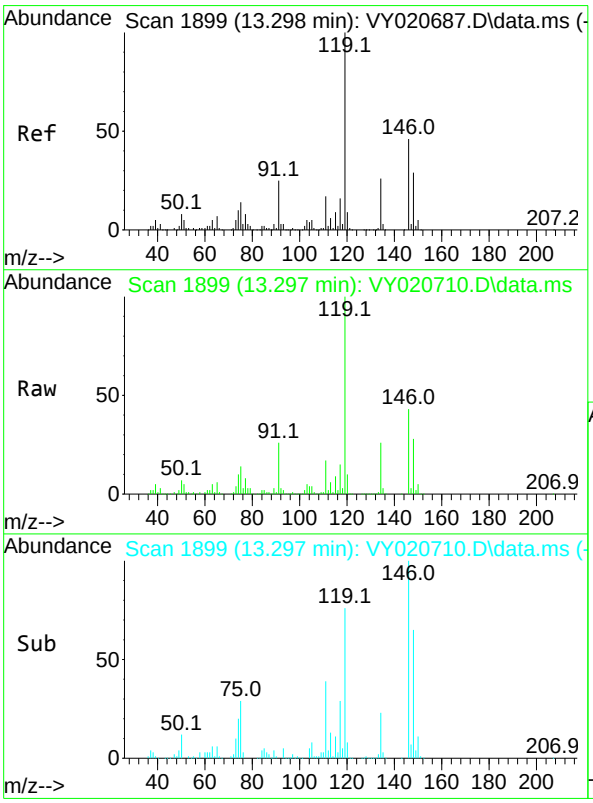

#85
sec-Butylbenzene
Concen: 146.177 ug/l
RT: 13.181 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:105 Resp: 727401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.8 | 10.7 | 32.1 |

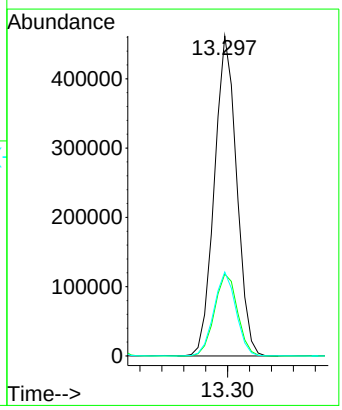


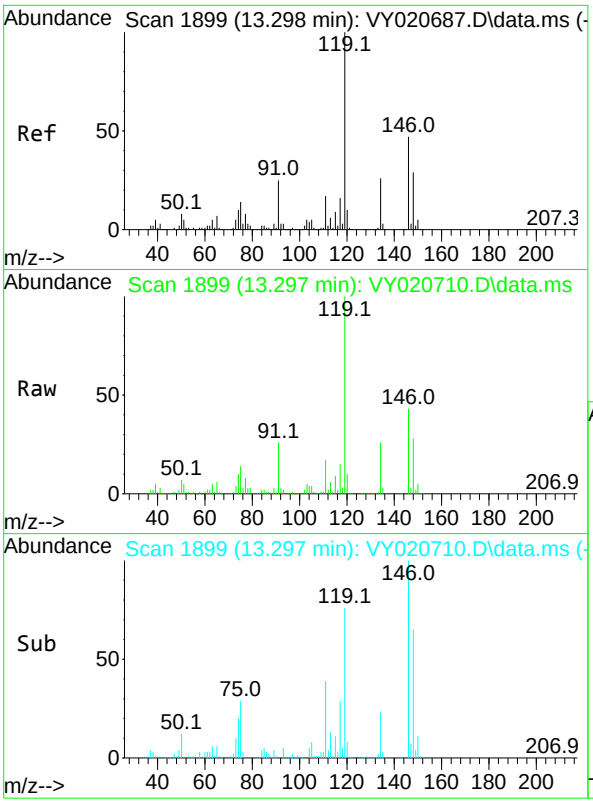




#86
p-Isopropyltoluene
Concen: 147.017 ug/l
RT: 13.297 min Scan# 1899
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:119 Resp: 651978

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.3 | 13.4 | 40.2 |
| 91 | 25.9 | 12.9 | 38.6 |



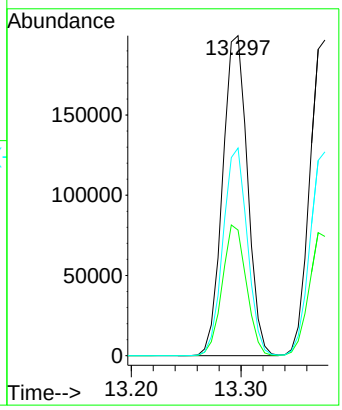


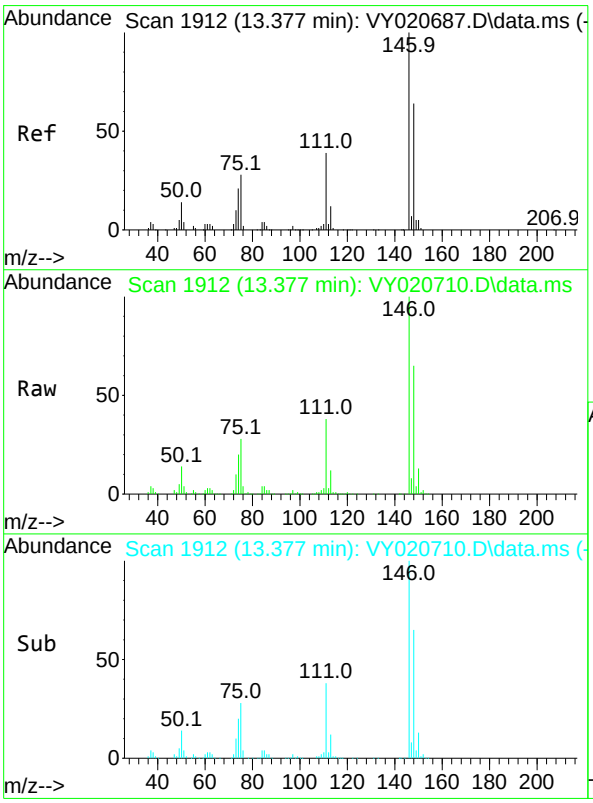

#87
1,3-Dichlorobenzene
Concen: 147.160 ug/l
RT: 13.297 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:146 Resp: 314188

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 19.3 | 57.8 |
| 148 | 63.6 | 31.1 | 93.5 |

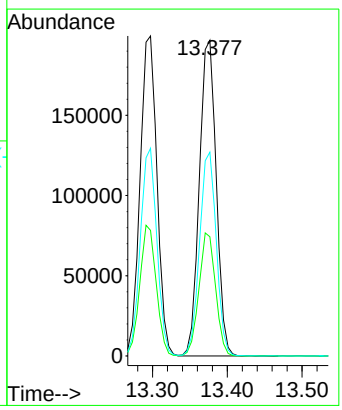


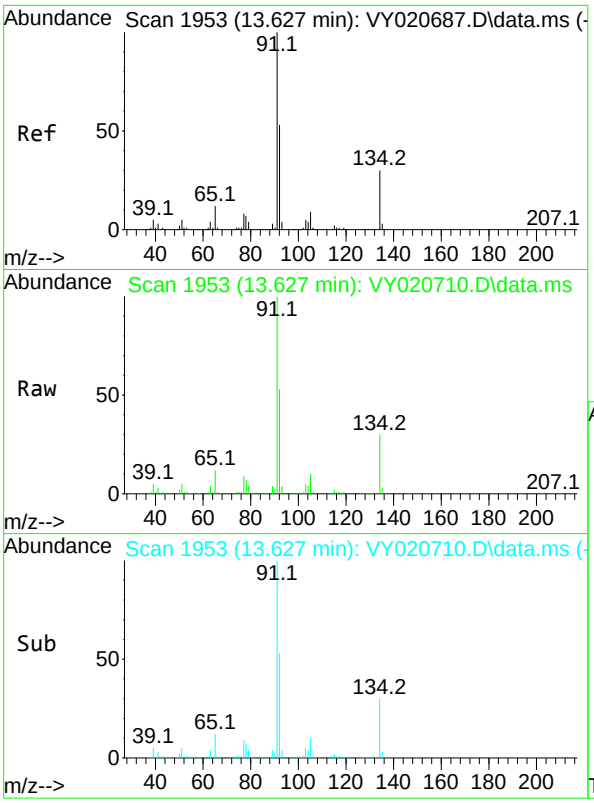




#88
1,4-Dichlorobenzene
Concen: 145.345 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:146 Resp: 308690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.4 | 19.7 | 59.0 |
| 148 | 64.1 | 32.8 | 98.3 |



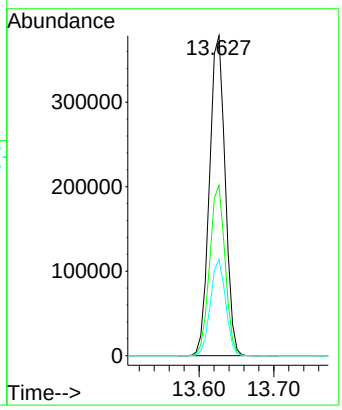


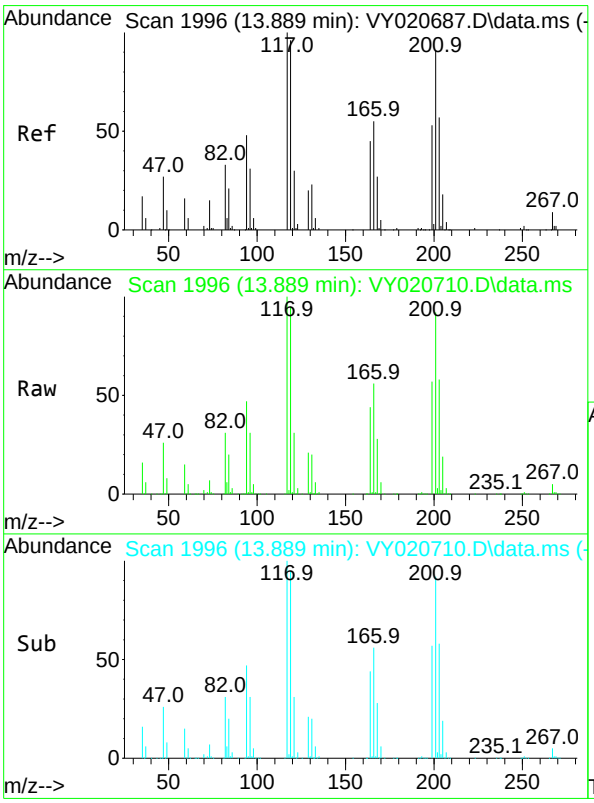

#89
n-Butylbenzene
Concen: 148.927 ug/l
RT: 13.627 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 551311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.4 | 26.1 | 78.2 |
| 134 | 29.4 | 14.8 | 44.4 |

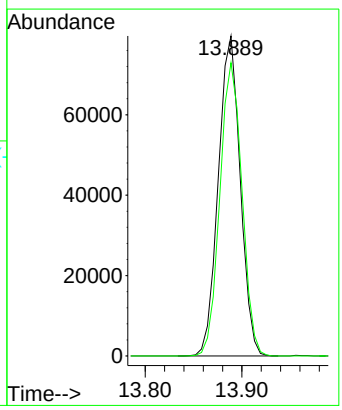


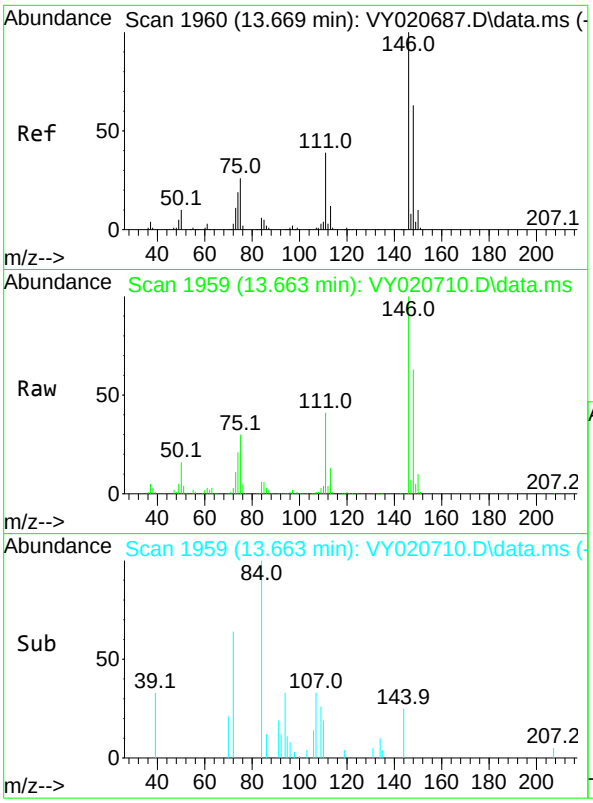




#90
Hexachloroethane
Concen: 148.318 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:117 Resp: 125073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 92.2 | 44.9 | 134.7 |



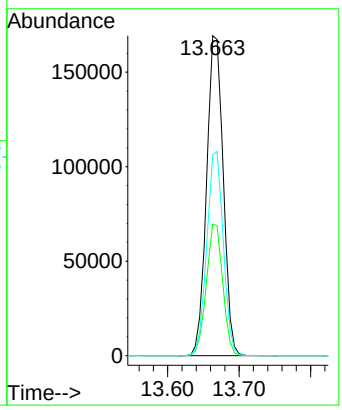


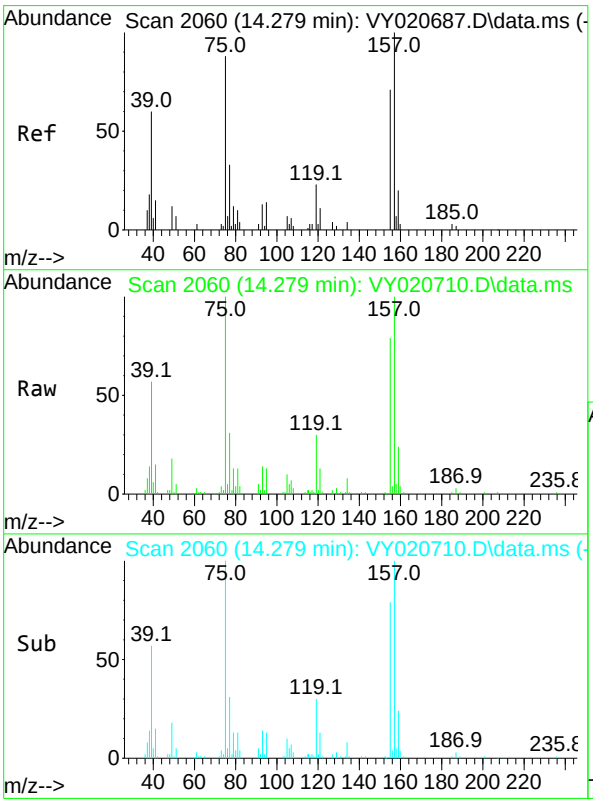

#91
1,2-Dichlorobenzene
Concen: 149.118 ug/l
RT: 13.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:146 Resp: 272976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 20.3 | 60.8 |
| 148 | 63.5 | 31.9 | 95.5 |

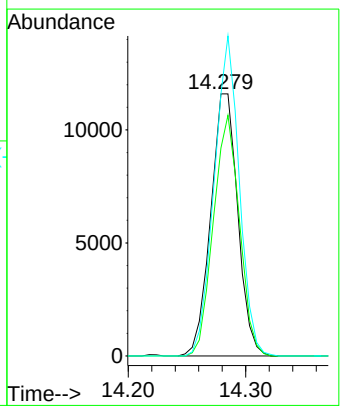


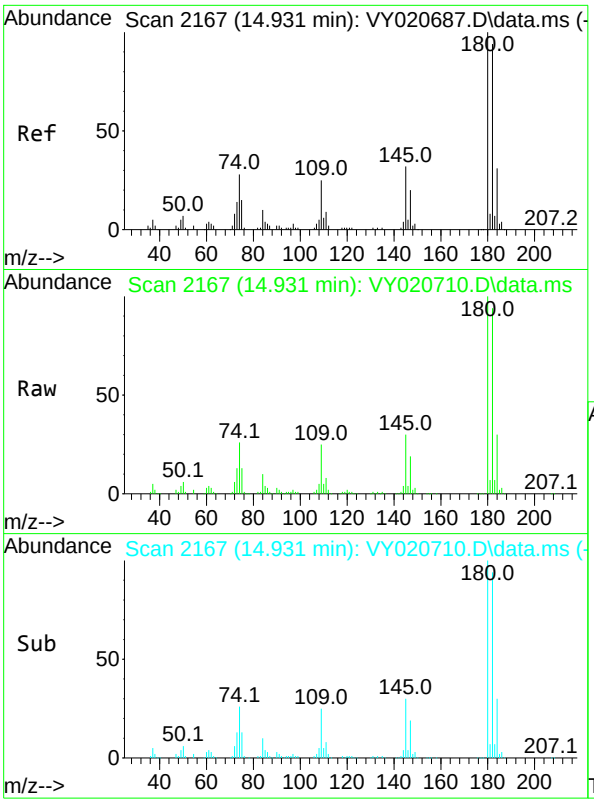




#92
1,2-Dibromo-3-Chloropropane
Concen: 157.429 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion: 75 Resp: 18575

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.9 | 43.4 | 130.2 |
| 157 | 113.0 | 58.6 | 175.7 |



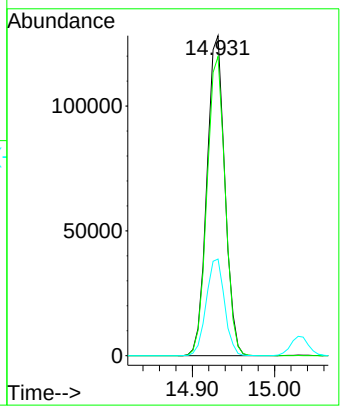


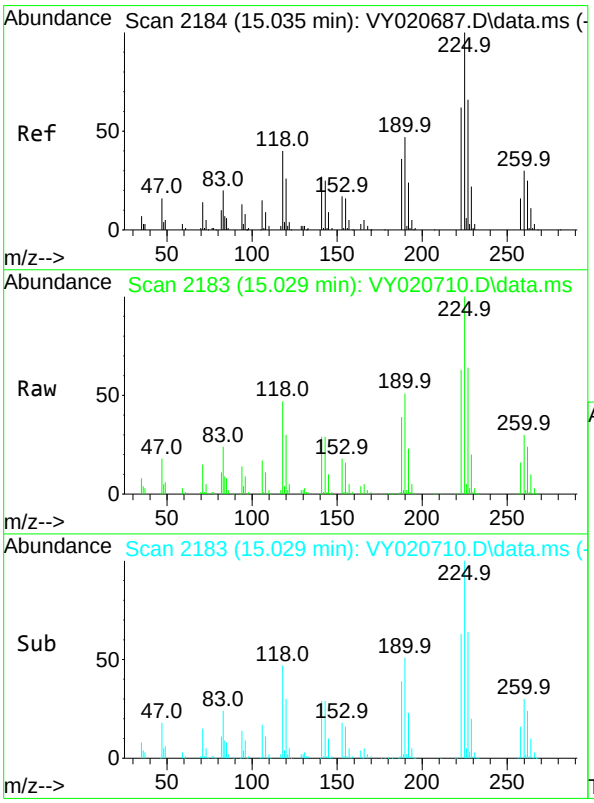

#93
1,2,4-Trichlorobenzene
Concen: 167.268 ug/l
RT: 14.931 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:180 Resp: 194628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.5 | 47.9 | 143.7 |
| 145 | 30.9 | 15.6 | 46.8 |

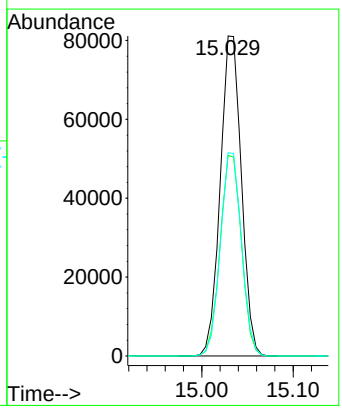


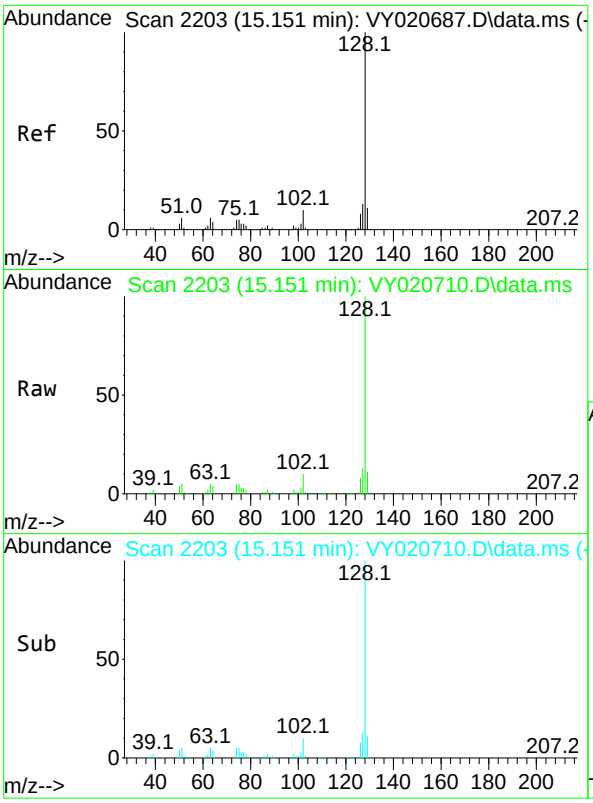




#94
Hexachlorobutadiene
Concen: 153.785 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:225 Resp: 130414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.2 | 31.3 | 93.8 |
| 227 | 63.6 | 32.1 | 96.5 |



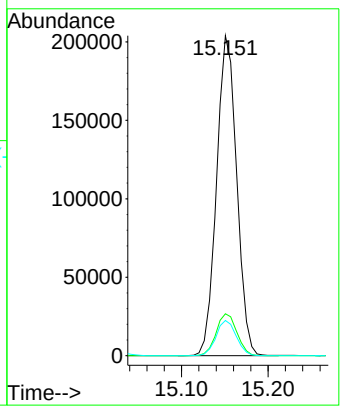


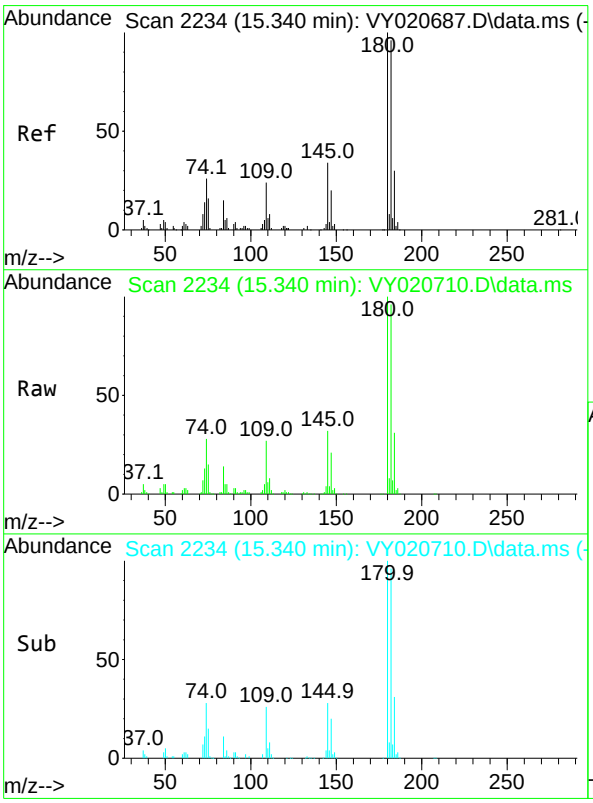

#95
Naphthalene
Concen: 176.838 ug/l
RT: 15.151 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC150

Tgt Ion:128 Resp: 329555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.7 | 16.1 |
| 129 | 11.0 | 8.6 | 12.8 |

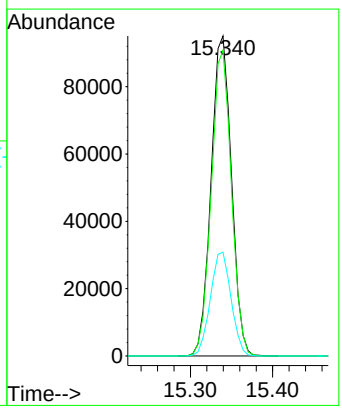



#96
1,2,3-Trichlorobenzene
Concen: 168.727 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. -0.000 min
Lab File: VY020710.D
Acq: 26 Dec 2024 11:01

Tgt Ion:180 Resp: 163465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.2 | 47.4 | 142.2 |
| 145 | 33.0 | 16.7 | 50.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020711.D
Acq On : 26 Dec 2024 11:51
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Dec 26 16:07:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 116833 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 159804 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 137258 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 69727 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 106883 | 111.689 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 223.380%# | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 98131 | 111.484 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 222.960%# | | | |
| 50) Toluene-d8 | 10.115 | 98 | 370174 | 103.831 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 207.660%# | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 126890 | 108.473 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 216.940%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 89983 | 97.849 | ug/l | 98 |
| 3) Chloromethane | 2.074 | 50 | 36325 | 105.914 | ug/l | 97 |
| 4) Vinyl Chloride | 2.214 | 62 | 42335 | 99.628 | ug/l | 99 |
| 5) Bromomethane | 2.605 | 94 | 32346 | 100.819 | ug/l | 92 |
| 6) Chloroethane | 2.745 | 64 | 25930 | 101.721 | ug/l | 92 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 160967 | 98.505 | ug/l | 97 |
| 8) Diethyl Ether | 3.464 | 74 | 40852 | 105.059 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 89952 | 100.269 | ug/l | 98 |
| 10) Methyl Iodide | 4.019 | 142 | 105224 | 107.262 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.872 | 59 | 27117 | 471.856 | ug/l # | 76 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 80482 | 100.793 | ug/l | 98 |
| 13) Acrolein | 3.665 | 56 | 6965 | 348.166 | ug/l | 98 |
| 14) Allyl chloride | 4.397 | 41 | 96335 | 103.097 | ug/l | 97 |
| 15) Acrylonitrile | 5.074 | 53 | 74874 | 498.444 | ug/l | 98 |
| 16) Acetone | 3.879 | 43 | 53244 | 438.581 | ug/l | 99 |
| 17) Carbon Disulfide | 4.116 | 76 | 207648 | 106.011 | ug/l | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 32722 | 99.589 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 222187 | 99.833 | ug/l | 100 |
| 20) Methylene Chloride | 4.629 | 84 | 78882 | 99.904 | ug/l | 95 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 88224 | 102.532 | ug/l | 97 |
| 22) Diisopropyl ether | 6.037 | 45 | 191362 | 100.743 | ug/l | 97 |
| 23) Vinyl Acetate | 5.976 | 43 | 574176 | 506.073 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 144777 | 101.659 | ug/l | 99 |
| 25) 2-Butanone | 6.903 | 43 | 78288 | 477.386 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 169441 | 97.206 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 6.903 | 96 | 104390 | 101.307 | ug/l | 97 |
| 28) Bromochloromethane | 7.256 | 49 | 42948 | 114.037 | ug/l | 95 |
| 29) Tetrahydrofuran | 7.274 | 42 | 48175 | 478.582 | ug/l | 94 |
| 30) Chloroform | 7.433 | 83 | 178101 | 97.216 | ug/l | 97 |
| 31) Cyclohexane | 7.713 | 56 | 111954 | 91.072 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 194164 | 98.873 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.848 | 75 | 118213 | 101.669 | ug/l | 99 |
| 37) Ethyl Acetate | 6.994 | 43 | 37453 | 97.751 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 193743 | 101.190 | ug/l | 98 |
| 39) Methylcyclohexane | 9.116 | 83 | 151388 | 101.582 | ug/l | 96 |
| 40) Benzene | 8.091 | 78 | 346286 | 102.763 | ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020711.D
Acq On : 26 Dec 2024 11:51
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Dec 26 16:07:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 20832 | 107.636 | ug/l | | 96 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 111130 | 102.849 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 83521 | 102.557 | ug/l | # | 86 |
| 44) Trichloroethene | 8.872 | 130 | 101237 | 100.585 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 67508 | 98.968 | ug/l | | 98 |
| 46) Dibromomethane | 9.238 | 93 | 47179 | 99.962 | ug/l | | 99 |
| 47) Bromodichloromethane | 9.427 | 83 | 134627 | 100.613 | ug/l | | 96 |
| 48) Methyl methacrylate | 9.225 | 41 | 39672 | 104.314 | ug/l | | 97 |
| 49) 1,4-Dioxane | 9.244 | 88 | 9130 | 2030.846 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 194141 | 493.895 | ug/l | | 99 |
| 52) Toluene | 10.176 | 92 | 236867 | 102.558 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 123413 | 105.012 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 132154 | 102.590 | ug/l | | 97 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 60063 | 99.697 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.445 | 69 | 82573 | 104.330 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 100785 | 103.074 | ug/l | | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 151207 | 547.868 | ug/l | | 99 |
| 59) 2-Hexanone | 10.768 | 43 | 132885 | 512.015 | ug/l | | 99 |
| 60) Dibromochloromethane | 10.920 | 129 | 99612 | 102.326 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 56939 | 100.443 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.652 | 164 | 95043 | 101.351 | ug/l | | 97 |
| 65) Chlorobenzene | 11.451 | 112 | 270485 | 100.641 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 105235 | 101.066 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 478506 | 101.867 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 366100 | 204.314 | ug/l | | 100 |
| 69) o-Xylene | 11.963 | 106 | 173536 | 101.366 | ug/l | | 99 |
| 70) Styrene | 11.975 | 104 | 294999 | 102.647 | ug/l | | 99 |
| 71) Bromoform | 12.139 | 173 | 60872 | 101.685 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 484532 | 100.300 | ug/l | | 100 |
| 74) N-amyl acetate | 12.078 | 43 | 72233 | 105.221 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 60116 | 97.073 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 90486 | 164.517 | ug/l | # | 100 |
| 77) Bromobenzene | 12.542 | 156 | 112291 | 100.978 | ug/l | | 97 |
| 78) n-propylbenzene | 12.603 | 91 | 544130 | 100.496 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 310413 | 100.568 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 404786 | 100.572 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 23063 | 102.794 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 322204 | 101.007 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 374773 | 99.709 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 399805 | 102.079 | ug/l | | 100 |
| 85) sec-Butylbenzene | 13.182 | 105 | 509425 | 100.564 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 454433 | 100.661 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.298 | 146 | 220131 | 101.283 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 216013 | 99.911 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 384958 | 102.152 | ug/l | | 100 |
| 90) Hexachloroethane | 13.889 | 117 | 87162 | 101.535 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 187803 | 100.778 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 12047 | 100.298 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 14.932 | 180 | 131697 | 111.184 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 91705 | 106.228 | ug/l | | 98 |
| 95) Naphthalene | 15.151 | 128 | 210953 | 111.196 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 109793 | 111.325 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020711.D
Acq On : 26 Dec 2024 11:51
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Dec 26 16:07:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration

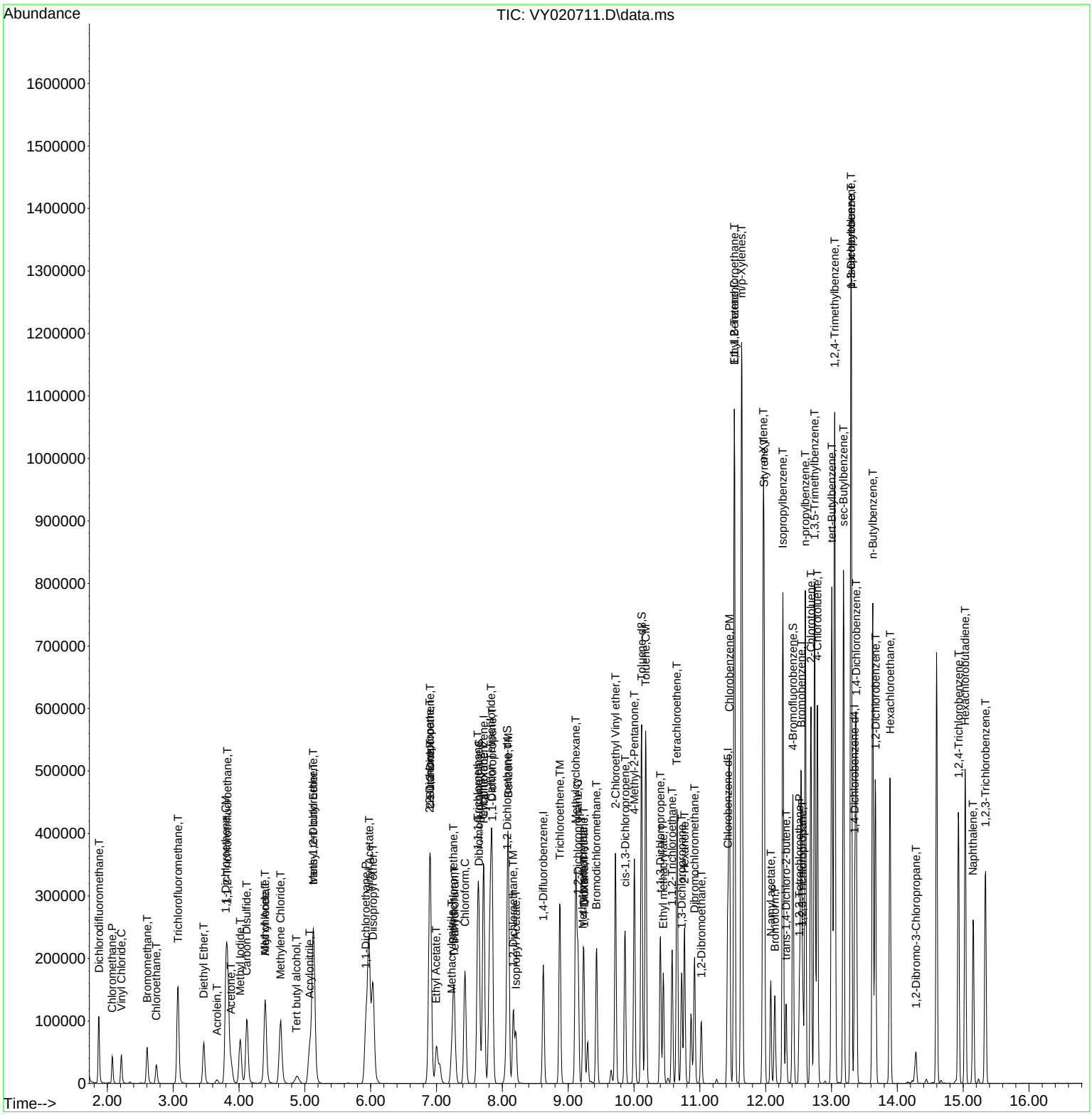
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

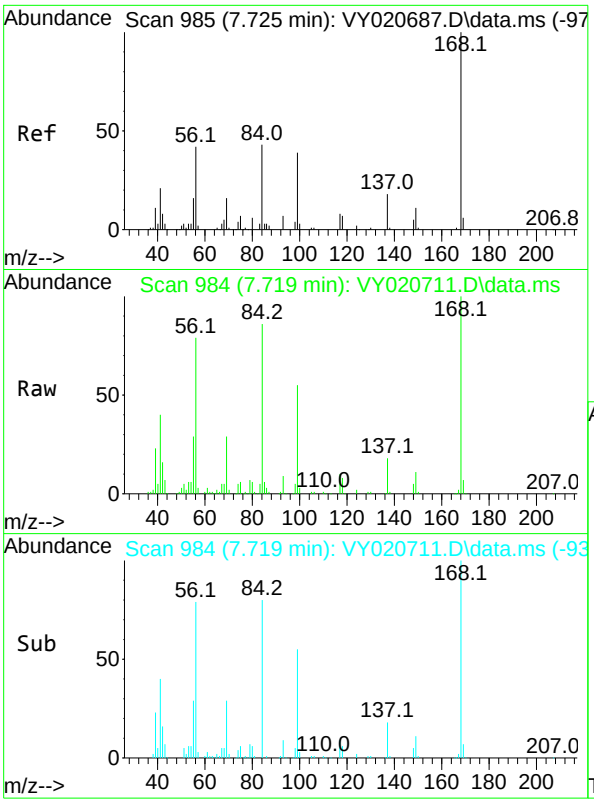
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020711.D
Acq On : 26 Dec 2024 11:51
Operator : SY/MD
Sample : VSTDICC100
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Quant Time: Dec 26 16:07:06 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:03:55 2024
Response via : Initial Calibration



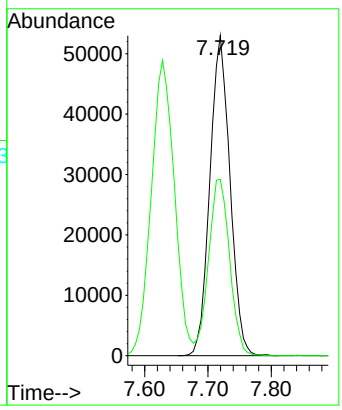


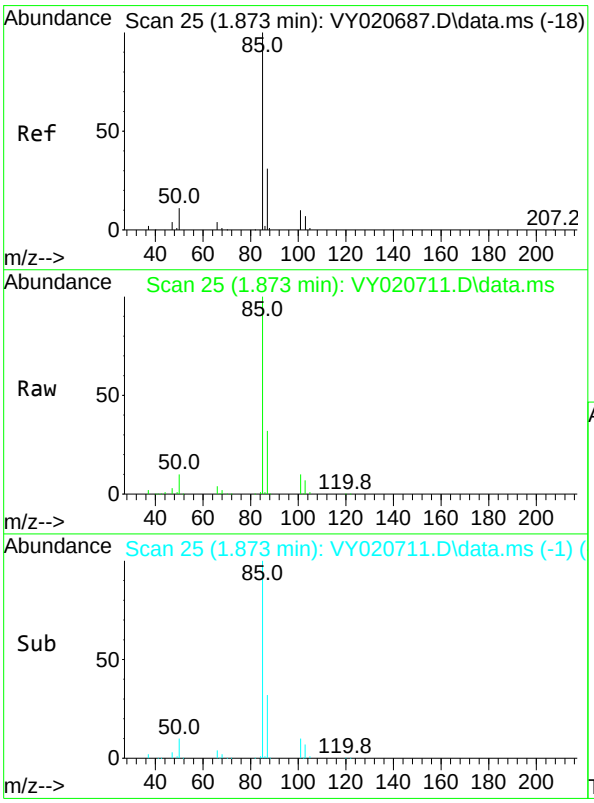

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:168 Resp: 116833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 55.1 | 43.8 | 65.6 |

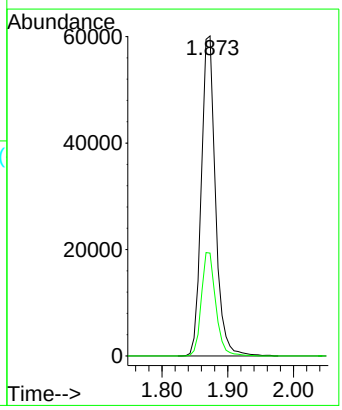


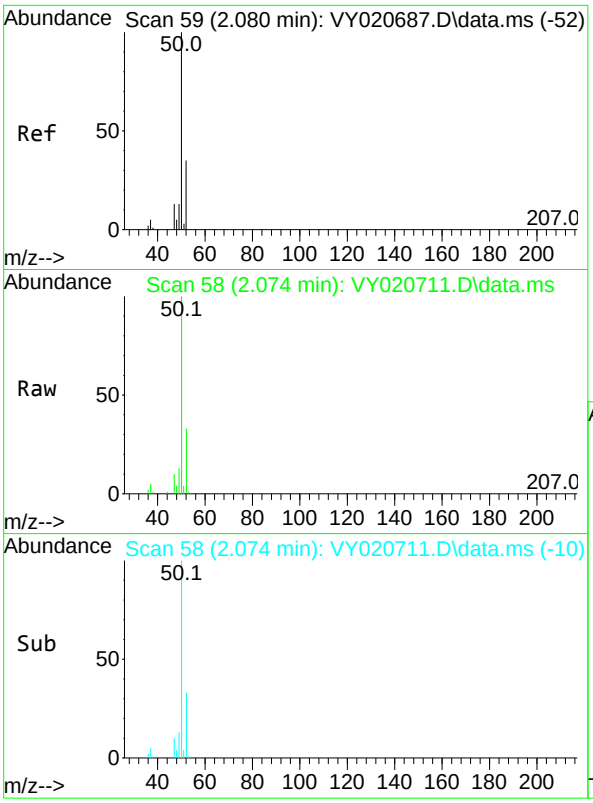




#2
Dichlorodifluoromethane
Concen: 97.849 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 85 Resp: 89983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.1 | 15.4 | 46.4 |



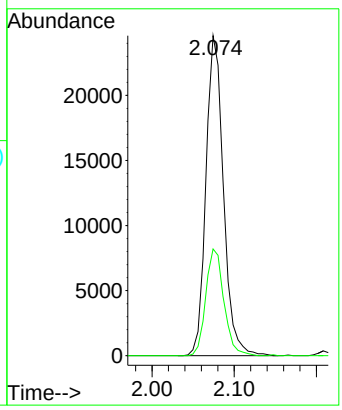


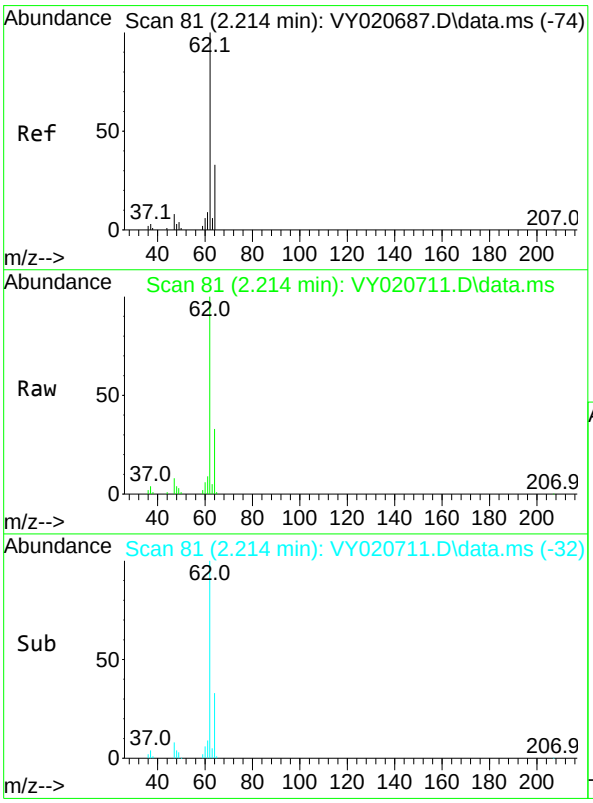

#3
Chloromethane
Concen: 105.914 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 50 Resp: 36325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.4 | 28.2 | 42.2 |

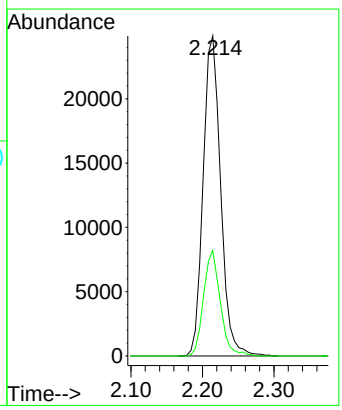


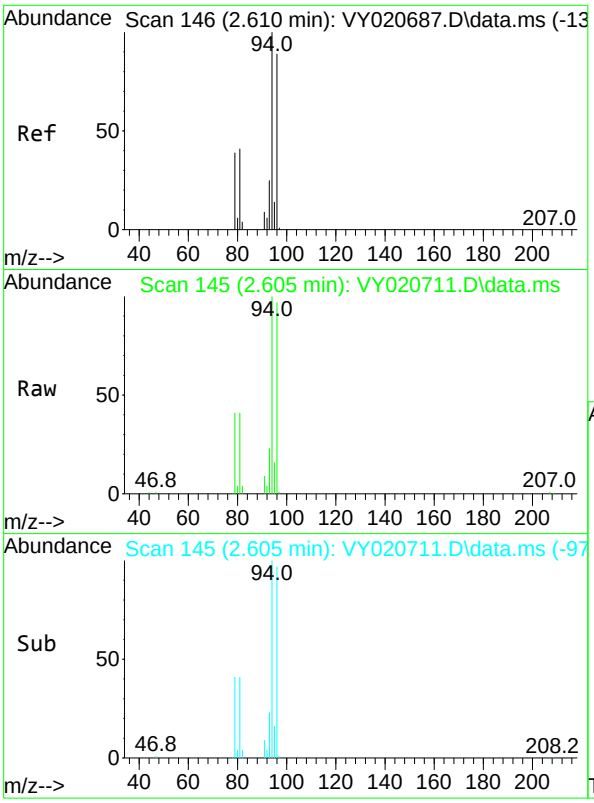




#4
Vinyl Chloride
Concen: 99.628 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 62 Resp: 42335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.9 | 26.6 | 40.0 |



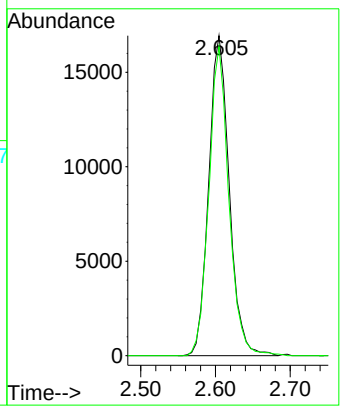


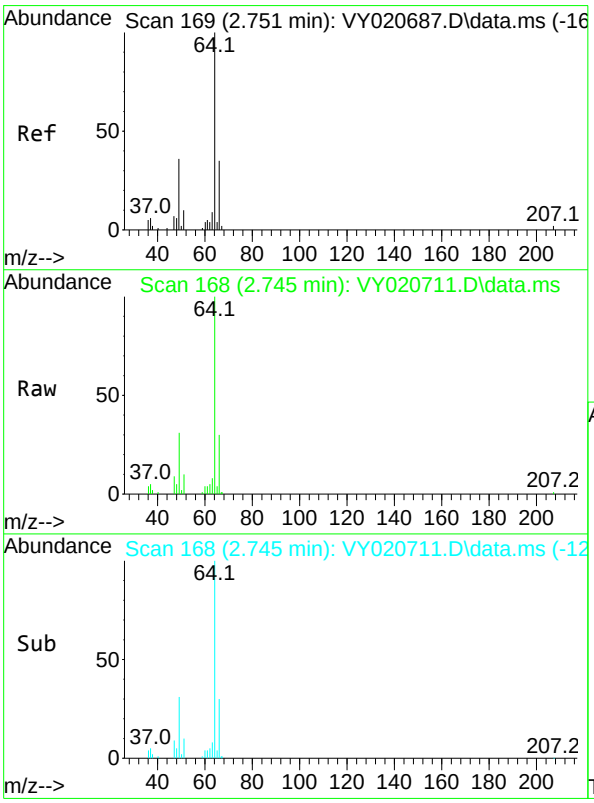

#5
Bromomethane
Concen: 100.819 ug/l
RT: 2.605 min Scan# 14
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 94 Resp: 32346

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.5 | 71.0 | 106.6 |

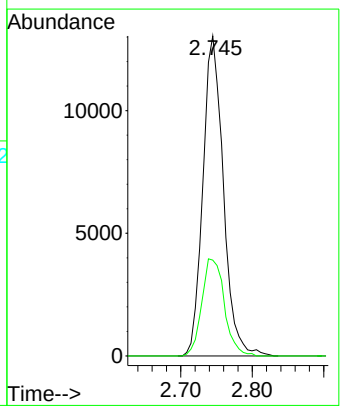


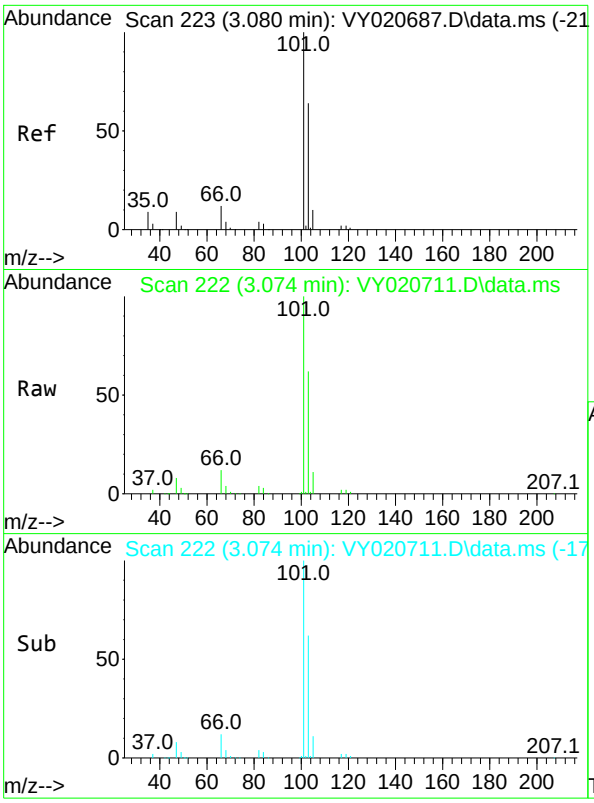




#6
Chloroethane
Concen: 101.721 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 64 Resp: 25930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.0 | 27.8 | 41.8 |



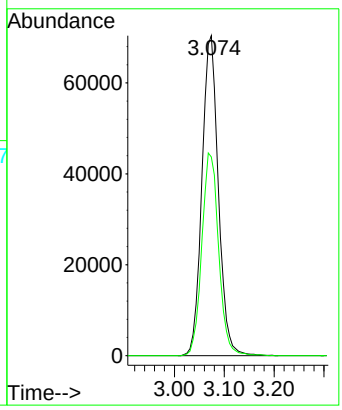


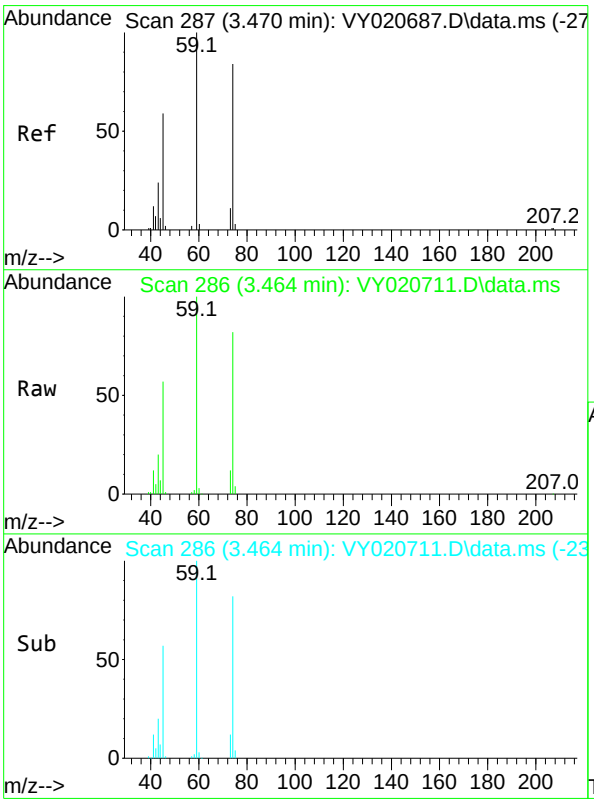

#7
Trichlorofluoromethane
Concen: 98.505 ug/l
RT: 3.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 160967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.1 | 51.4 | 77.0 |

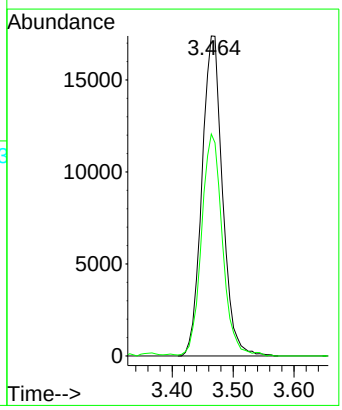


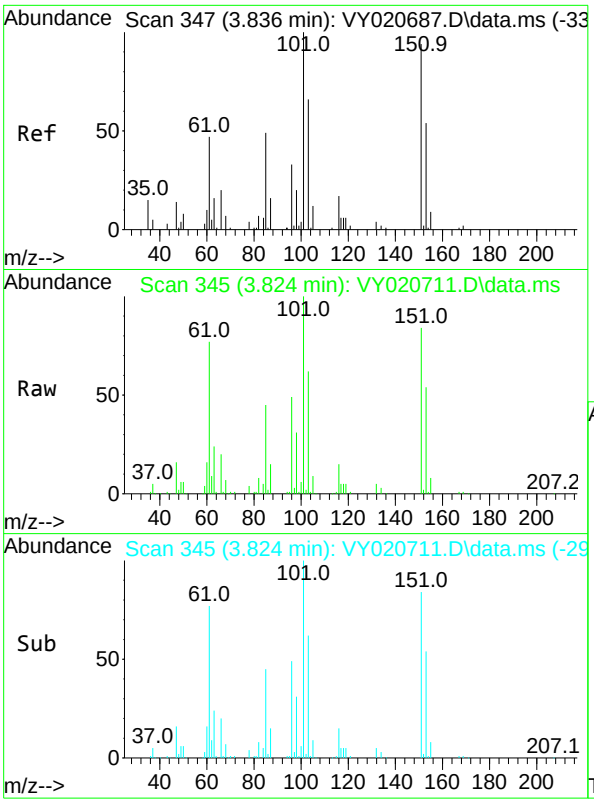




#8
Diethyl Ether
Concen: 105.059 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 74 Resp: 40852

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 70.5 | 35.8 | 107.4 |



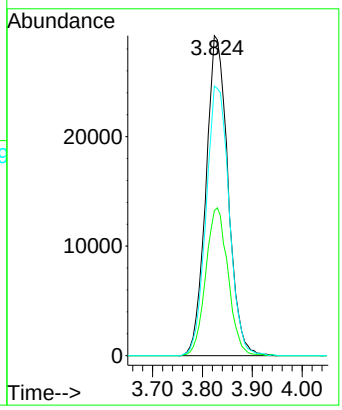


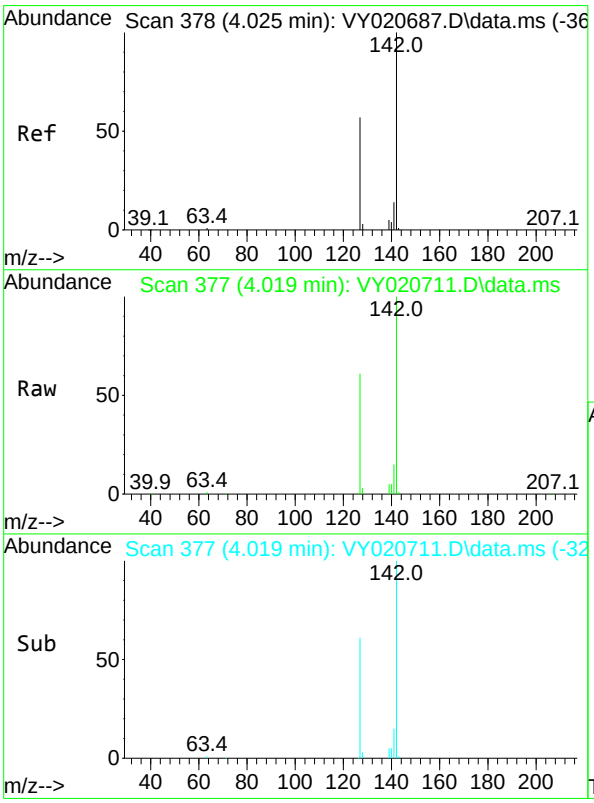

#9
1,1,2-Trichlorotrifluoroethane
Concen: 100.269 ug/l
RT: 3.824 min Scan# 34
Delta R.T. -0.012 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 89952

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.8 | 38.2 | 57.2 |
| 151 | 87.9 | 68.4 | 102.6 |

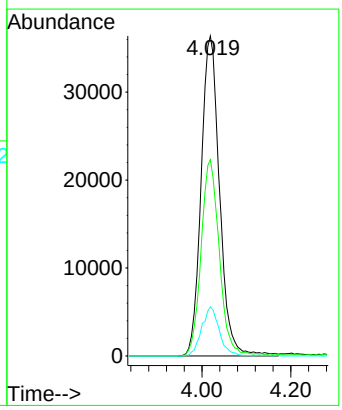


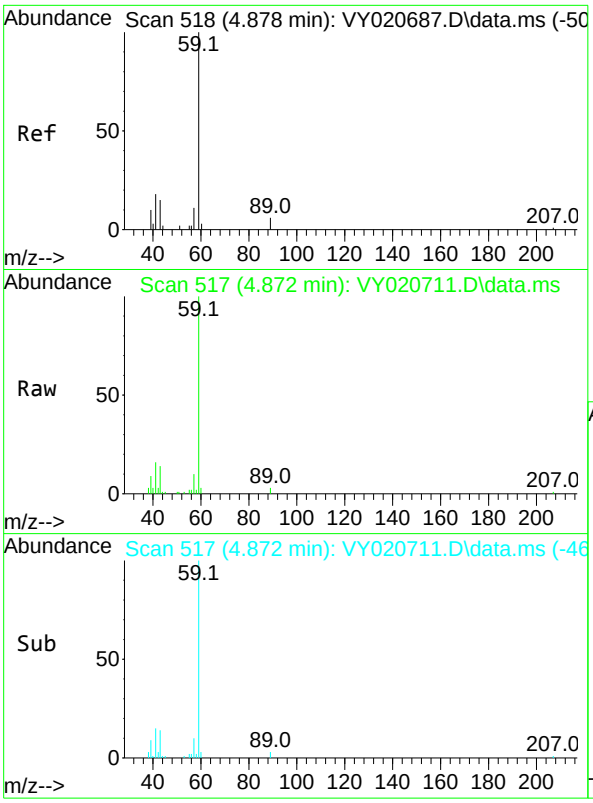




#10
Methyl Iodide
Concen: 107.262 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:142 Resp: 105224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 60.4 | 48.8 | 73.2 |
| 141 | 14.6 | 11.9 | 17.9 |



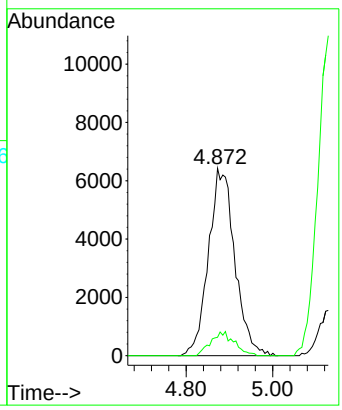


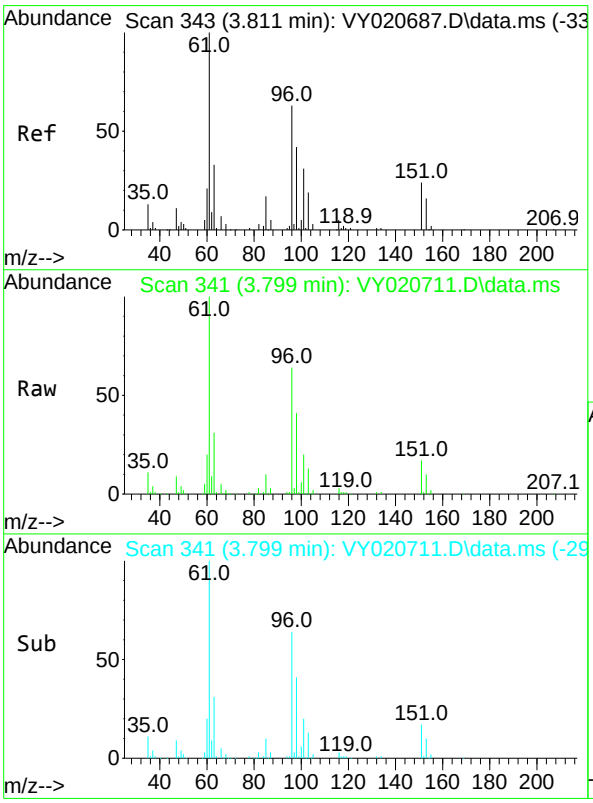

#11
Tert butyl alcohol
Concen: 471.856 ug/l
RT: 4.872 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 59 Resp: 27117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.5 | 2.8 | 4.2# |

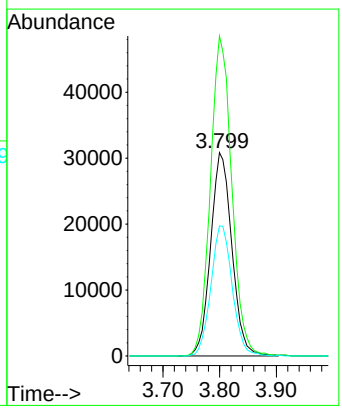


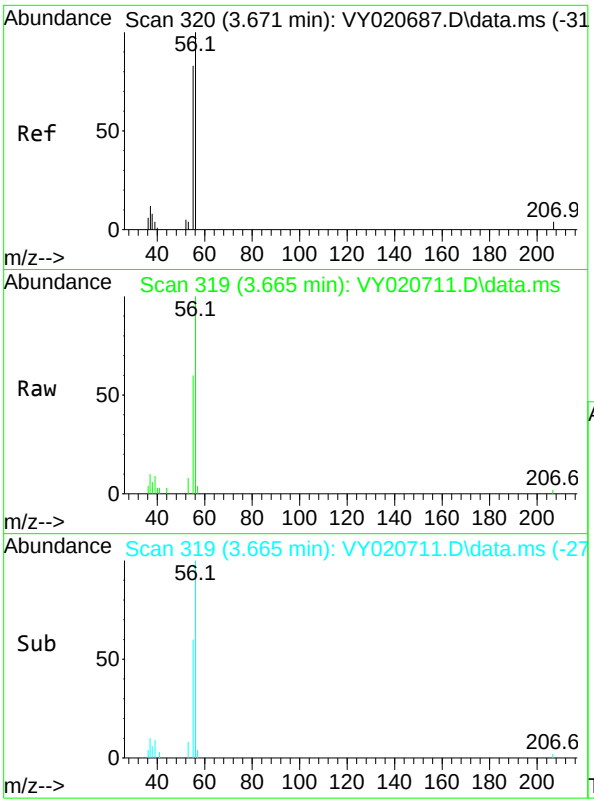




#12
1,1-Dichloroethene
Concen: 100.793 ug/l
RT: 3.799 min Scan# 341
Delta R.T. -0.012 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 96 Resp: 80482

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 157.3 | 127.1 | 190.7 |
| 98 | 63.9 | 53.4 | 80.0 |



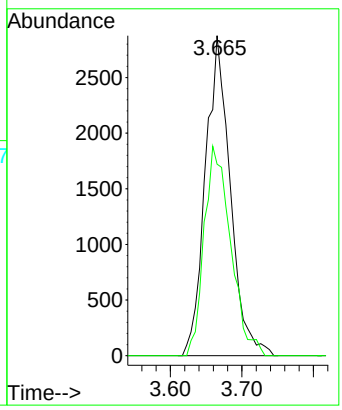


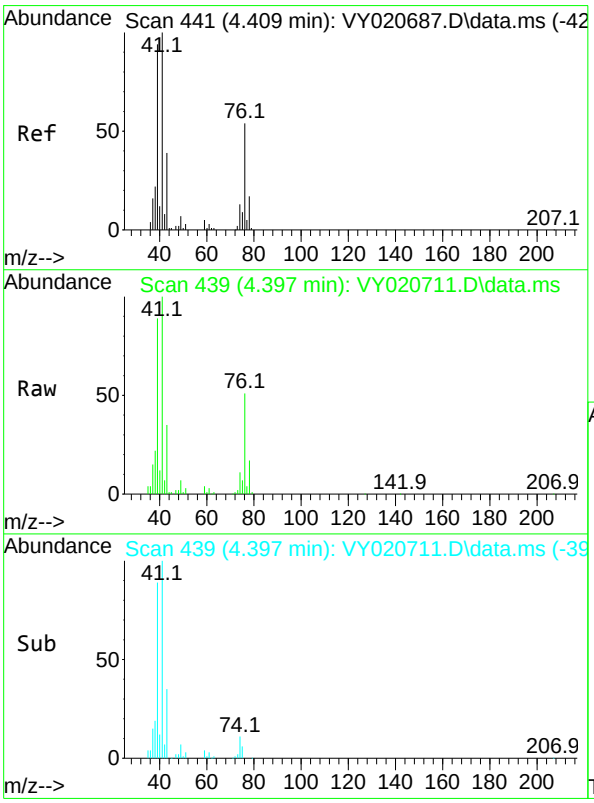

#13
Acrolein
Concen: 348.166 ug/l
RT: 3.665 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 6965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.7 | 57.0 | 85.4 |

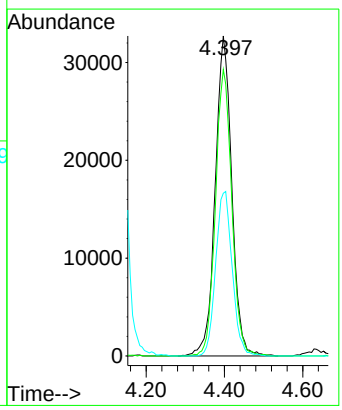


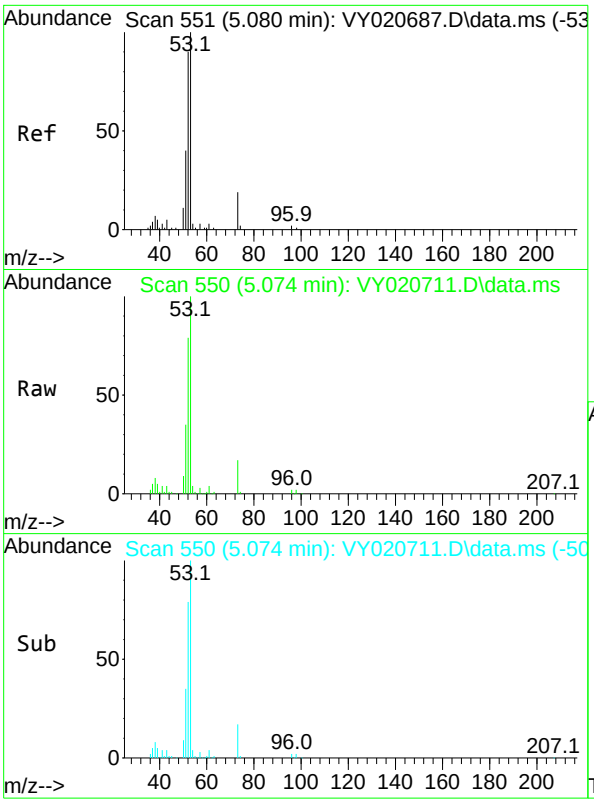




#14
Allyl chloride
Concen: 103.097 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.012 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 41 Resp: 96335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 88.3 | 73.5 | 110.3 |
| 76 | 51.2 | 41.8 | 62.8 |



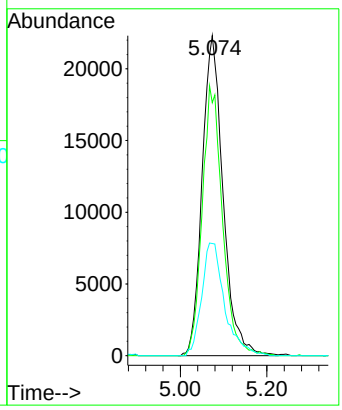


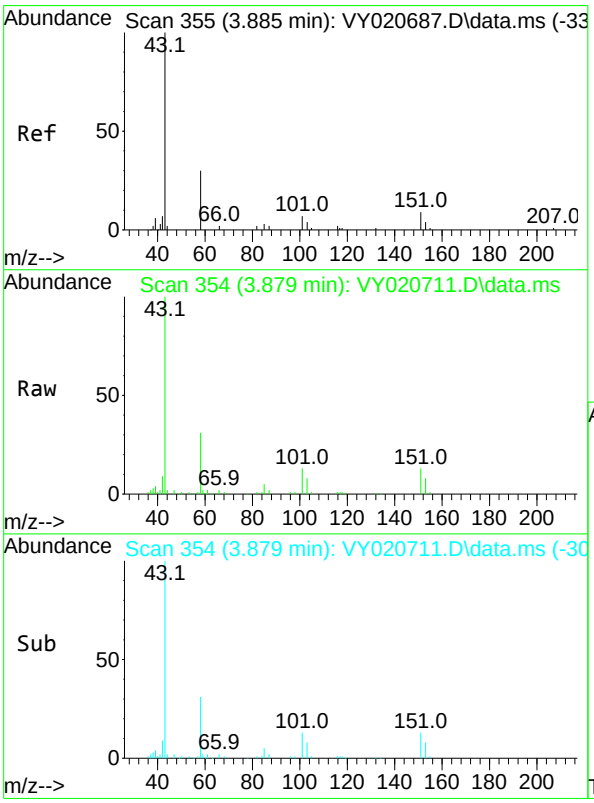

#15
Acrylonitrile
Concen: 498.444 ug/l
RT: 5.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 53 Resp: 74874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.8 | 67.1 | 100.7 |
| 51 | 38.6 | 31.4 | 47.0 |

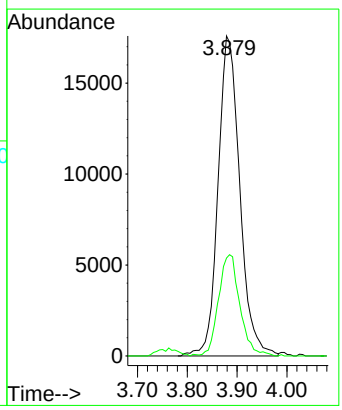


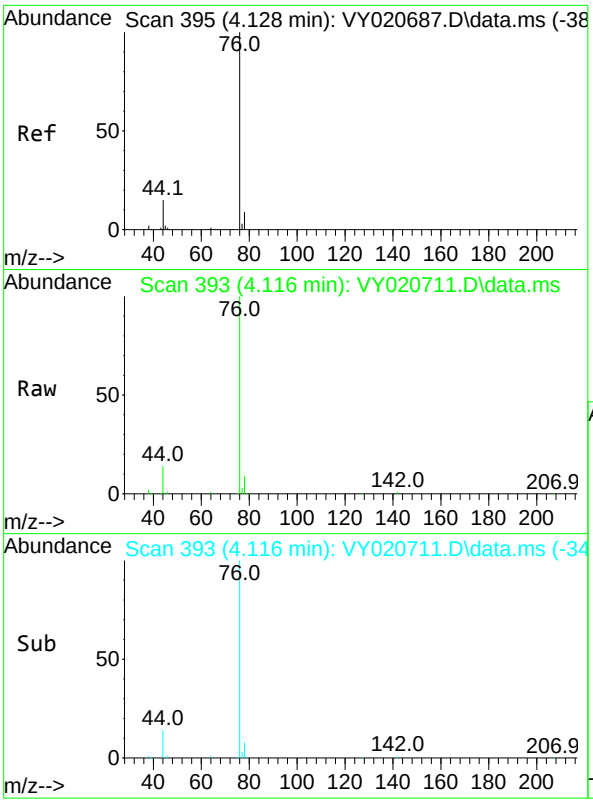




#16
Acetone
Concen: 438.581 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 53244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.6 | 25.0 | 37.6 |



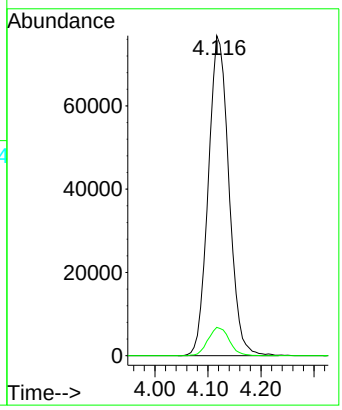


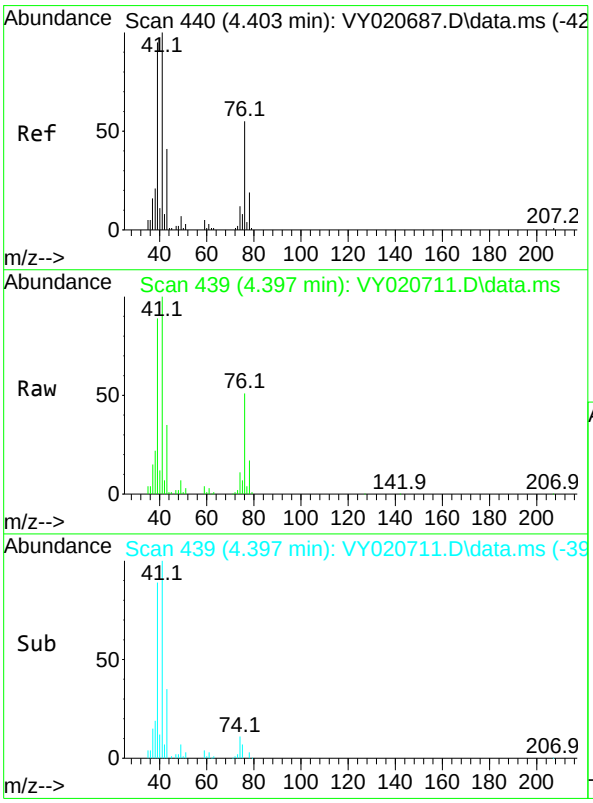

#17
Carbon Disulfide
Concen: 106.011 ug/l
RT: 4.116 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 207648

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 6.9 | 10.3 |

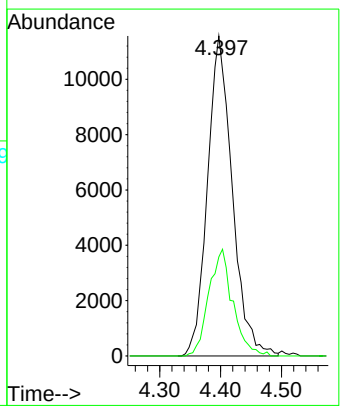


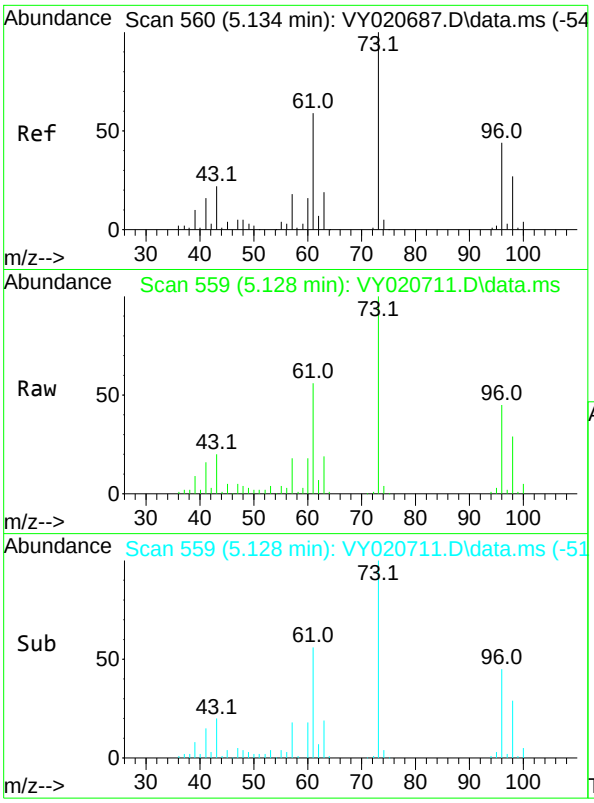




#18
Methyl Acetate
Concen: 99.589 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 32722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 32.3 | 25.3 | 37.9 |



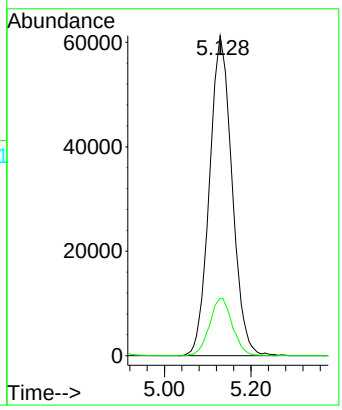


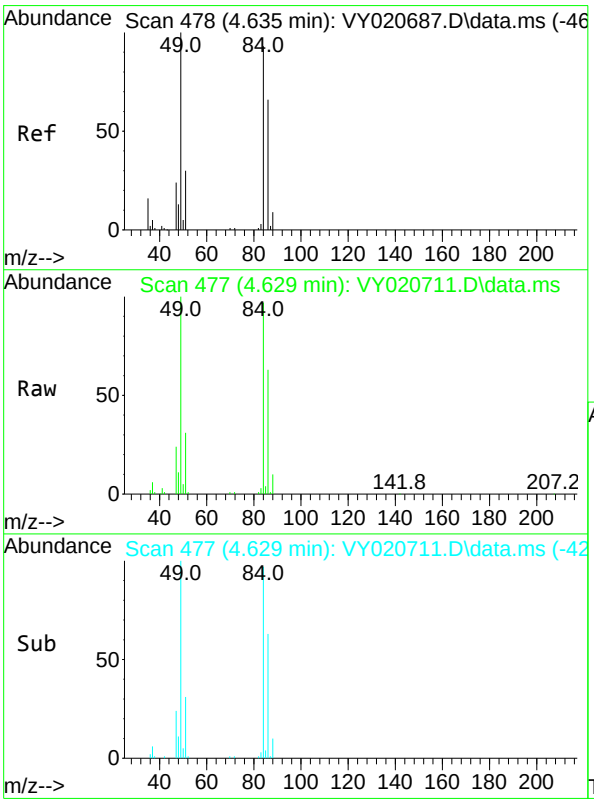

#19
Methyl tert-butyl Ether
Concen: 99.833 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 73 Resp: 222187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 17.9 | 14.4 | 21.6 |

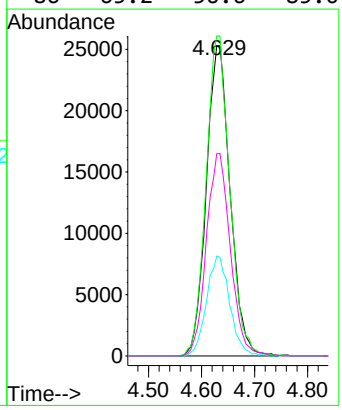


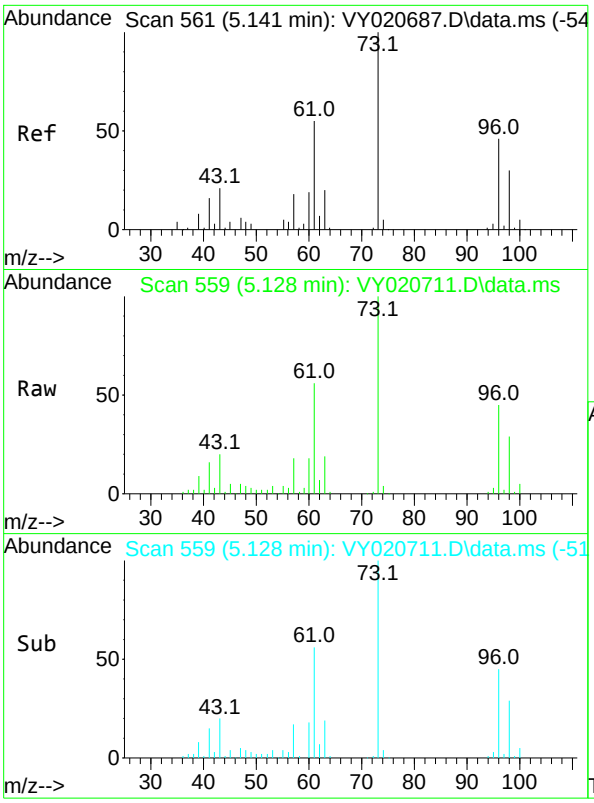




#20
Methylene Chloride
Concen: 99.904 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 84 Resp: 78882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 103.2 | 86.4 | 129.6 |
| 51 | 32.2 | 25.5 | 38.3 |
| 86 | 65.2 | 56.6 | 85.0 |



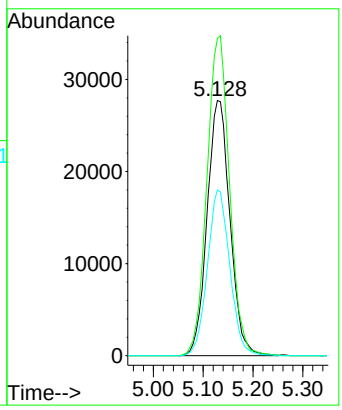


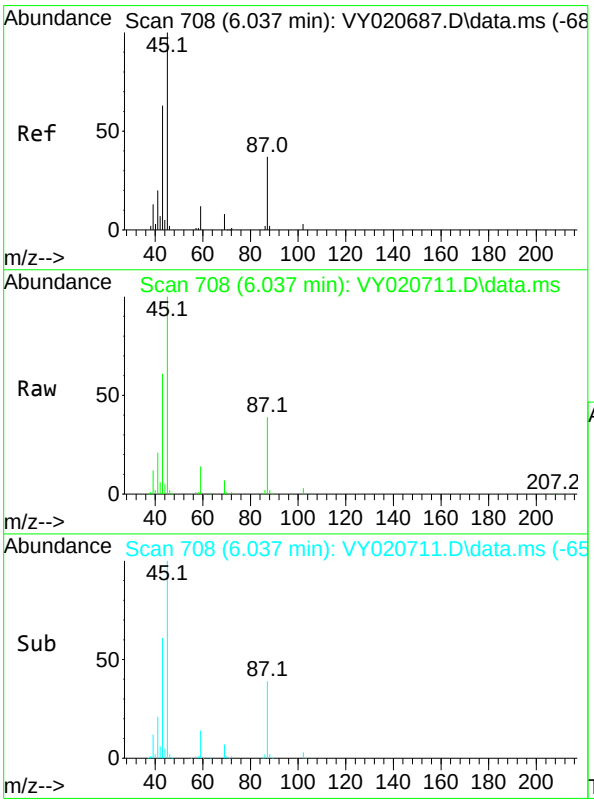

#21
trans-1,2-Dichloroethene
Concen: 102.532 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.013 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 88224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.3 | 96.1 | 144.1 |
| 98 | 64.9 | 52.7 | 79.1 |

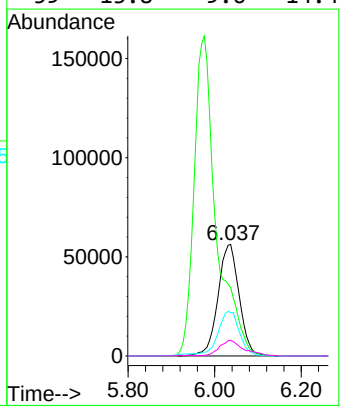


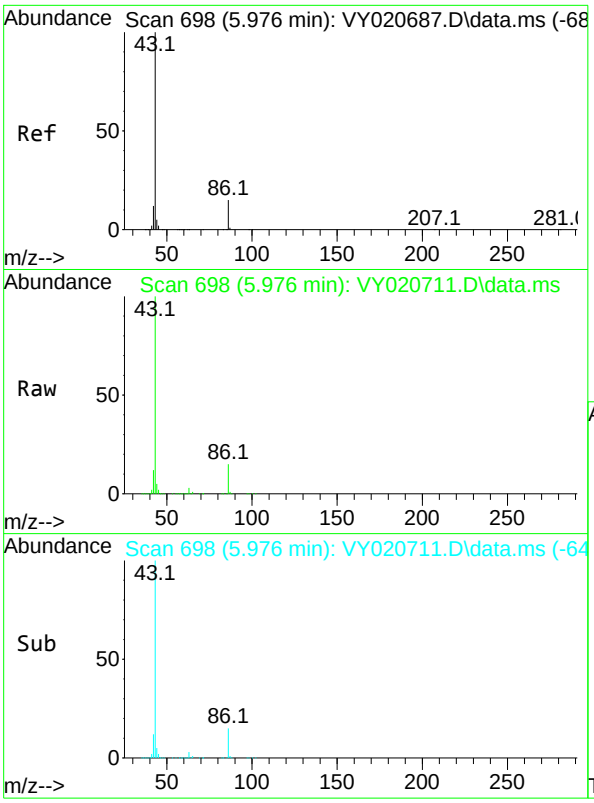




#22
Diisopropyl ether
Concen: 100.743 ug/l
RT: 6.037 min Scan# 708
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 45 Resp: 191362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 61.0 | 51.3 | 76.9 |
| 87 | 38.8 | 30.6 | 46.0 |
| 59 | 13.8 | 9.6 | 14.4 |



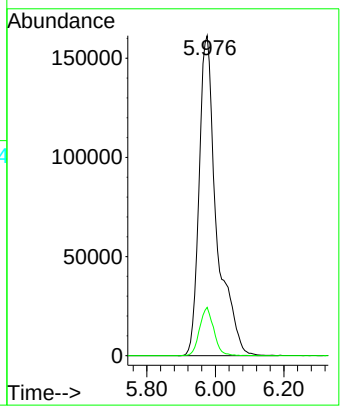


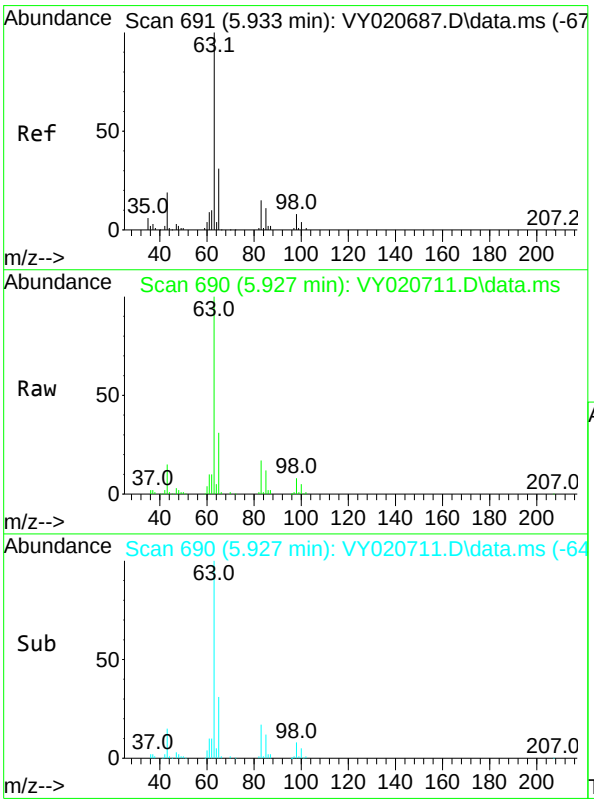

#23
Vinyl Acetate
Concen: 506.073 ug/l
RT: 5.976 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 574176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 15.1 | 12.0 | 18.0 |

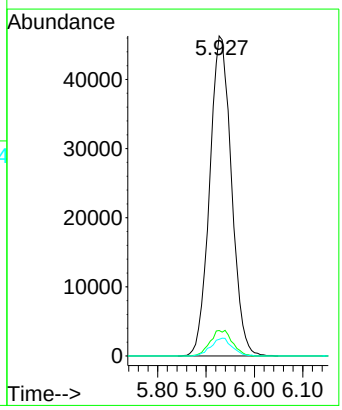


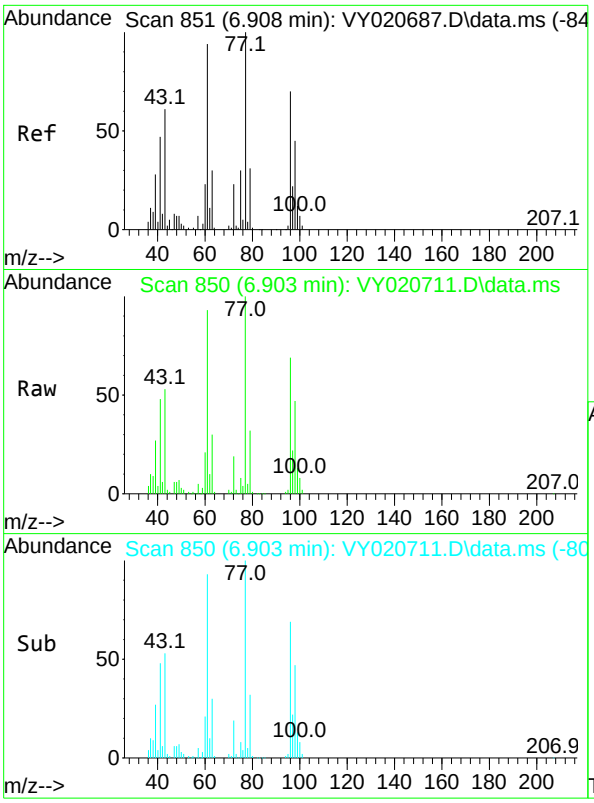




#24
1,1-Dichloroethane
Concen: 101.659 ug/l
RT: 5.927 min Scan# 690
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 63 Resp: 144777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.9 | 4.0 | 12.0 |
| 100 | 5.2 | 2.1 | 6.2 |



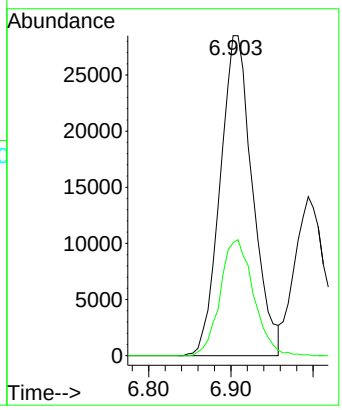


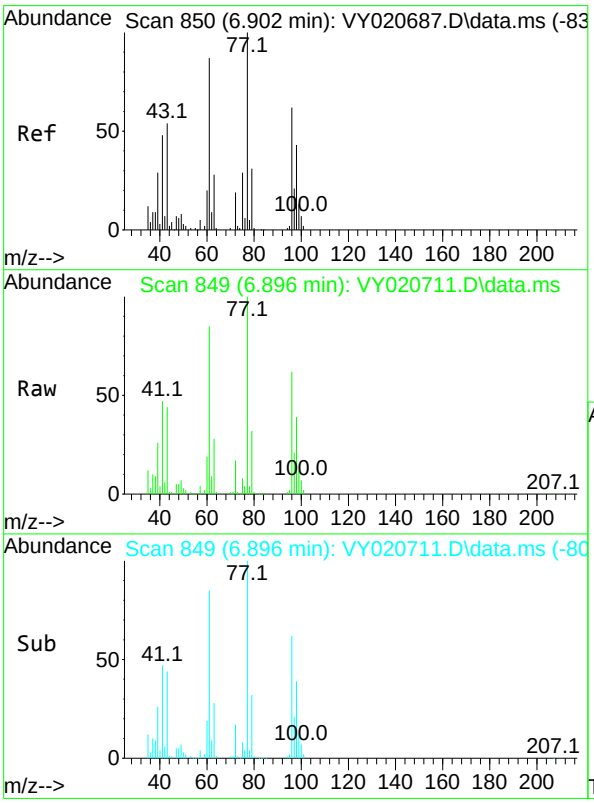

#25
2-Butanone
Concen: 477.386 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 78288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 35.3 | 29.5 | 44.3 |

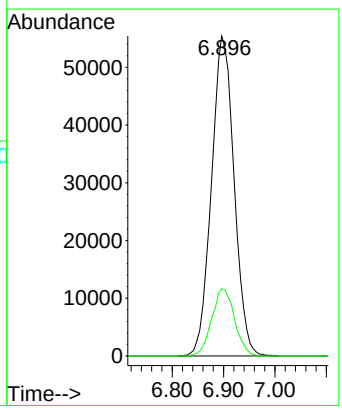


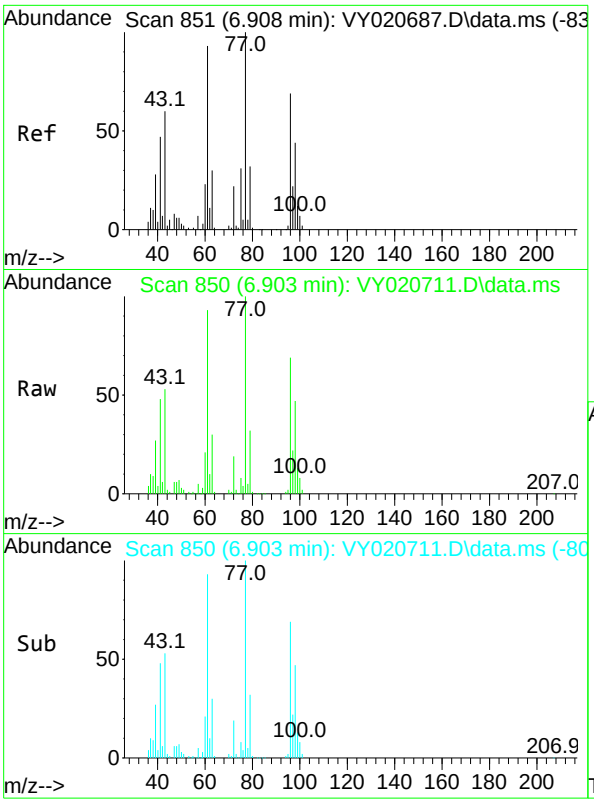




#26
2,2-Dichloropropane
Concen: 97.206 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 77 Resp: 169441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.2 | 10.8 | 32.4 |



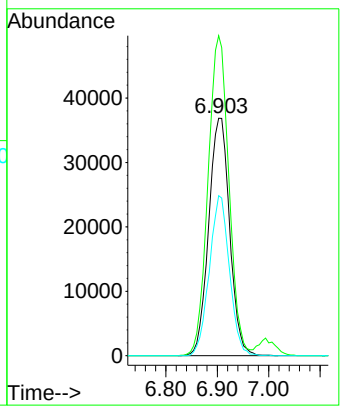


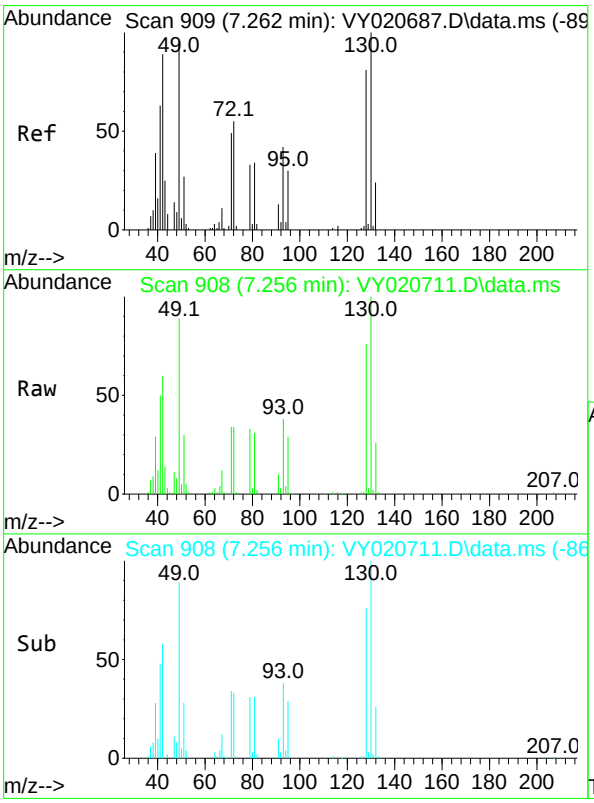

#27
cis-1,2-Dichloroethene
Concen: 101.307 ug/l
RT: 6.903 min Scan# 8
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 104390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.1 | 0.0 | 277.2 |
| 98 | 64.7 | 0.0 | 131.0 |

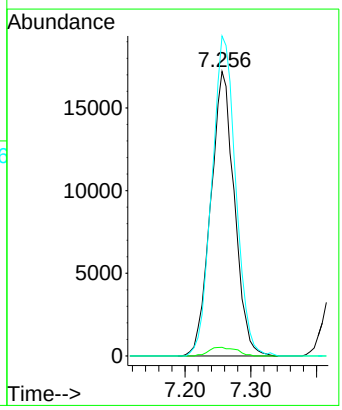


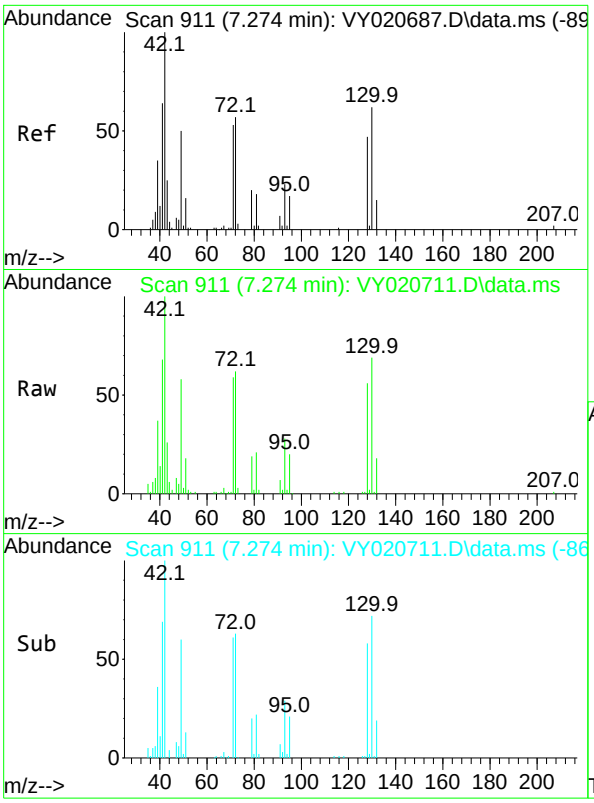




#28
Bromochloromethane
Concen: 114.037 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 49 Resp: 42948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 3.6 | 0.0 | 5.4 |
| 130 | 113.9 | 87.2 | 130.8 |



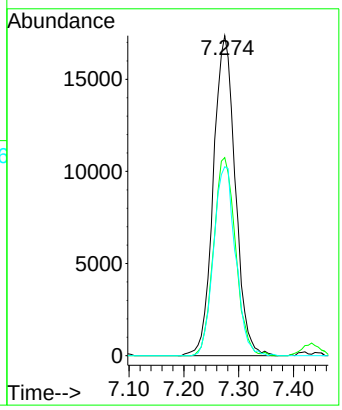


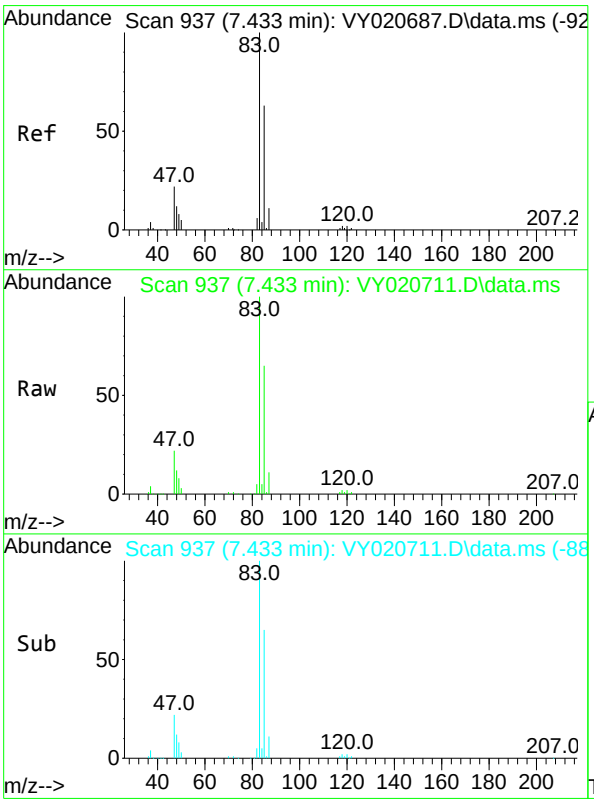

#29
Tetrahydrofuran
Concen: 478.582 ug/l
RT: 7.274 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 42 Resp: 48175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 62.0 | 47.4 | 71.0 |
| 71 | 59.3 | 42.8 | 64.2 |

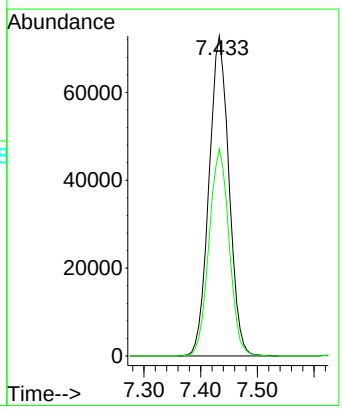


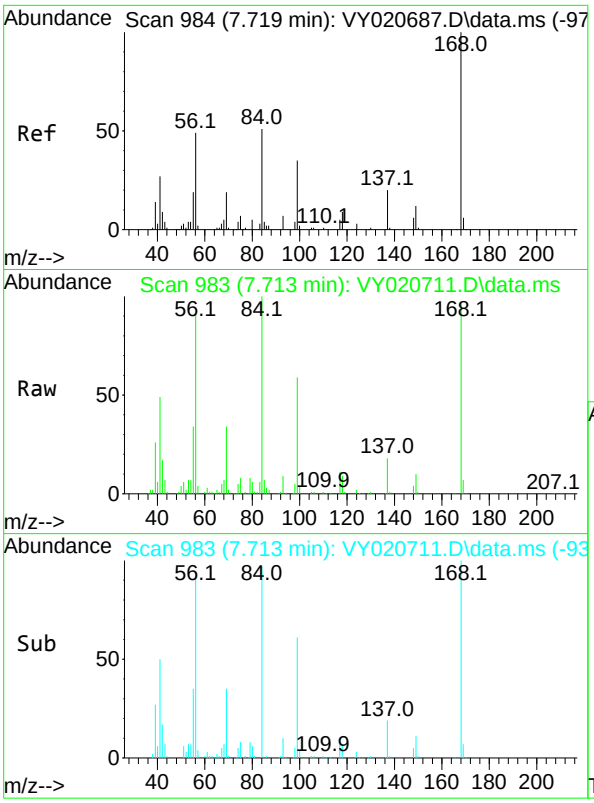




#30
Chloroform
Concen: 97.216 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 83 Resp: 178101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 50.2 | 75.2 |



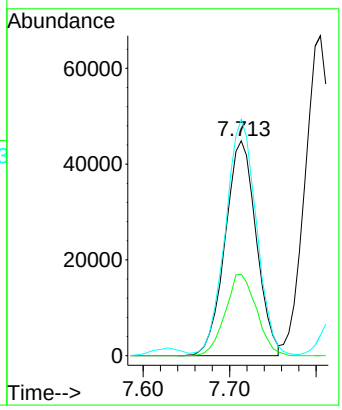


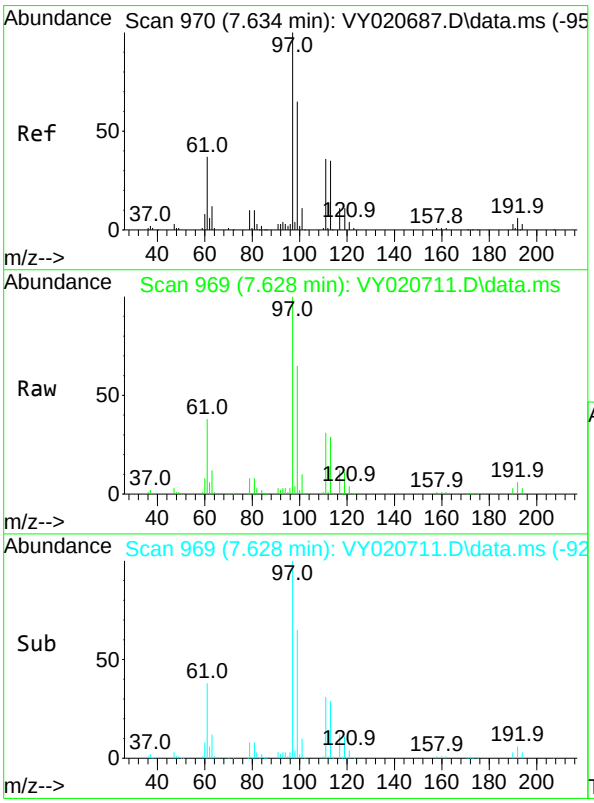

#31
Cyclohexane
Concen: 91.072 ug/l
RT: 7.713 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 111954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 37.8 | 31.3 | 46.9 |
| 84 | 107.4 | 83.9 | 125.9 |

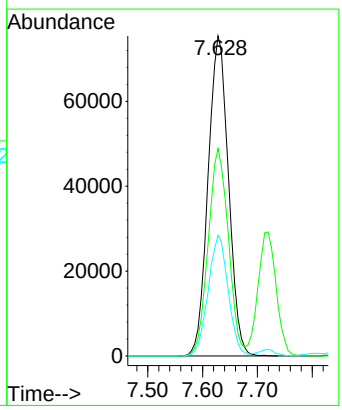


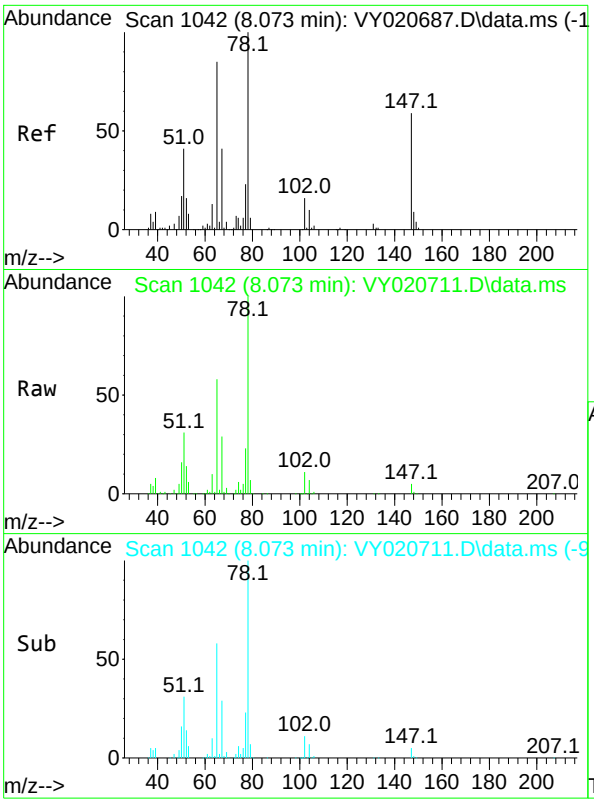




#32
1,1,1-Trichloroethane
Concen: 98.873 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 97 Resp: 194164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.3 | 51.0 | 76.6 |
| 61 | 37.0 | 30.0 | 45.0 |



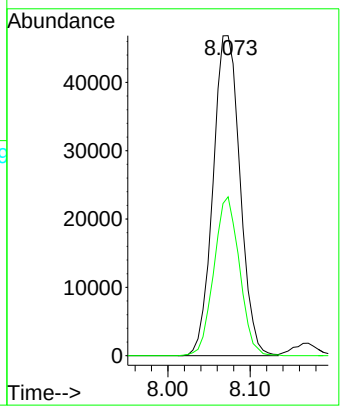


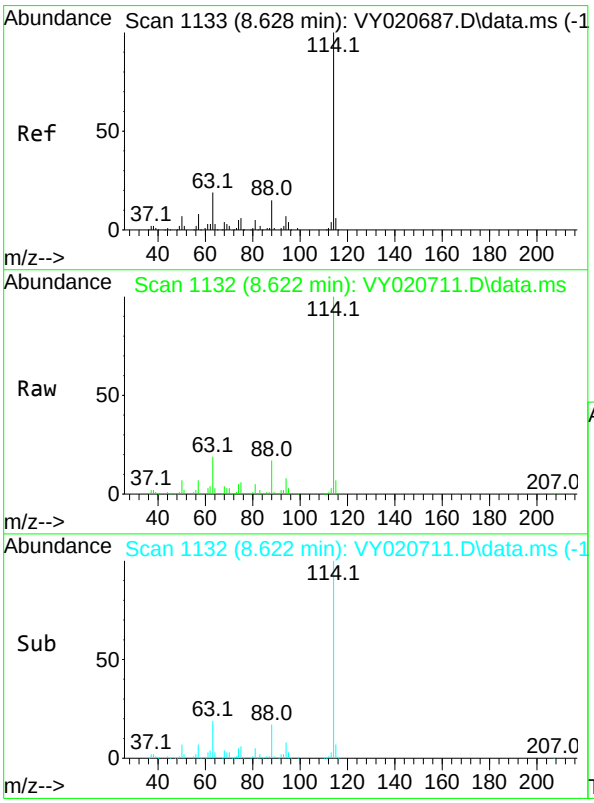

#33
1,2-Dichloroethane-d4
Concen: 111.689 ug/l
RT: 8.073 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 65 Resp: 106883

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 47.1 | 0.0 | 98.0 |

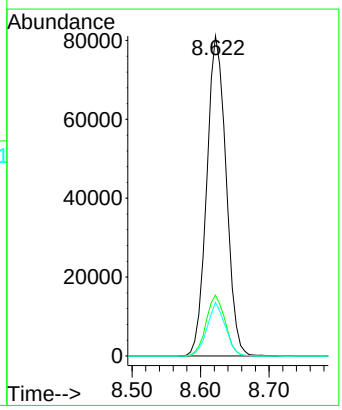


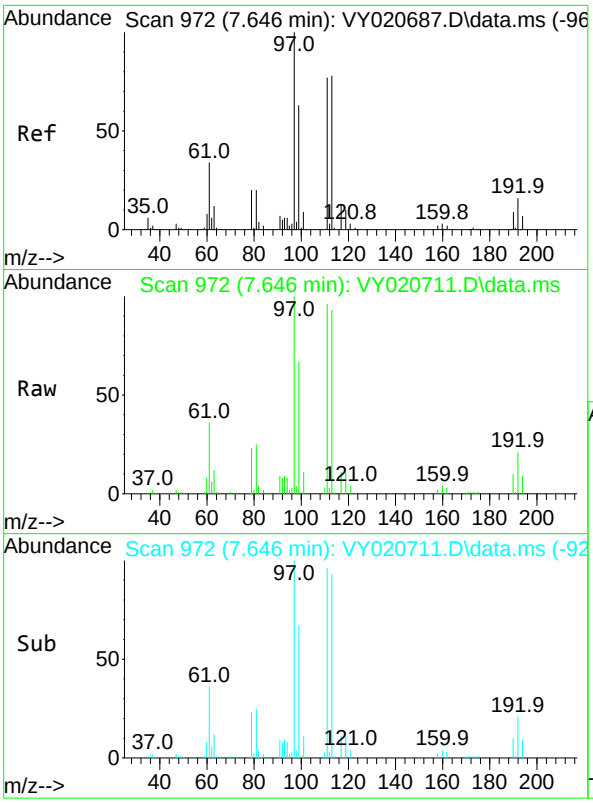




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:114 Resp: 159804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.0 | 0.0 | 38.4 |
| 88 | 16.7 | 0.0 | 30.4 |



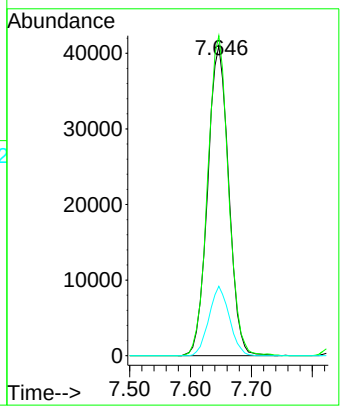


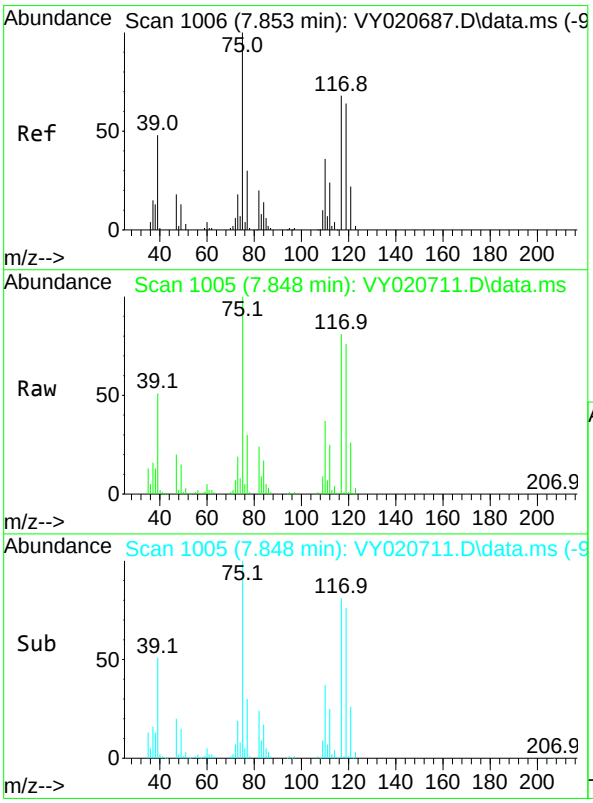

#35
Dibromofluoromethane
Concen: 111.484 ug/l
RT: 7.646 min Scan# 9
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:113 Resp: 98131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.4 | 79.8 | 119.8 |
| 192 | 21.8 | 17.0 | 25.6 |

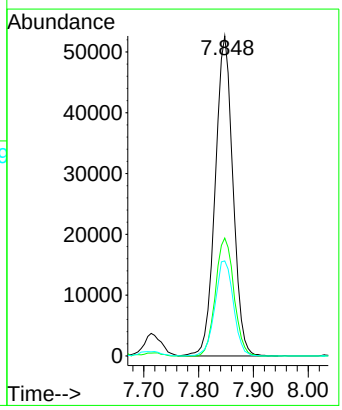


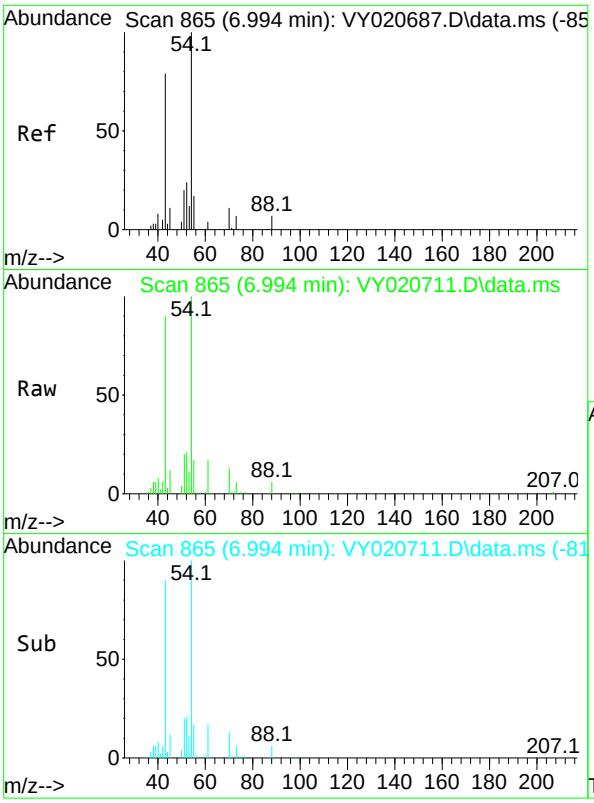




#36
1,1-Dichloropropene
Concen: 101.669 ug/l
RT: 7.848 min Scan# 1005
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 75 Resp: 118213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.3 | 19.6 | 58.7 |
| 77 | 31.0 | 25.1 | 37.7 |



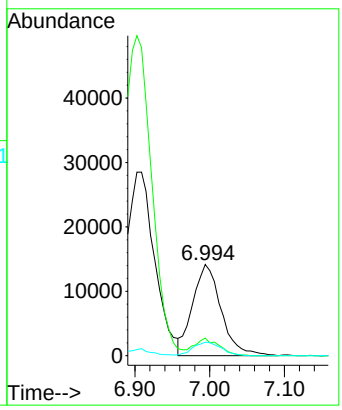


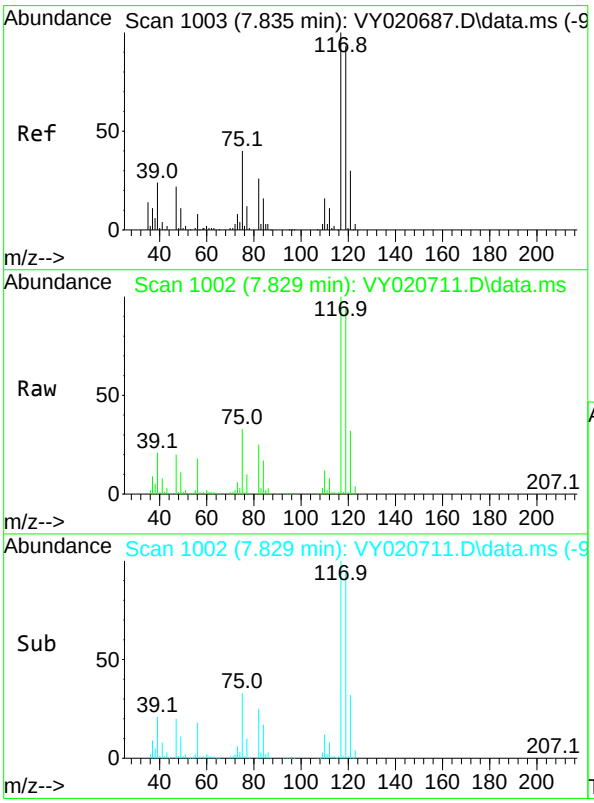

#37
Ethyl Acetate
Concen: 97.751 ug/l
RT: 6.994 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 37453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.1 | 11.7 | 17.5 |
| 70 | 14.6 | 11.0 | 16.4 |

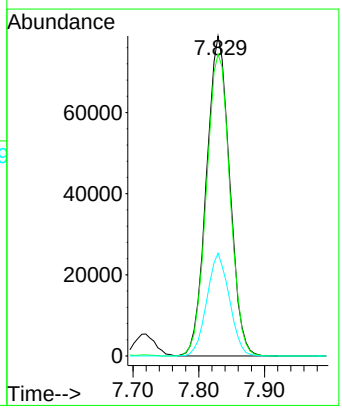


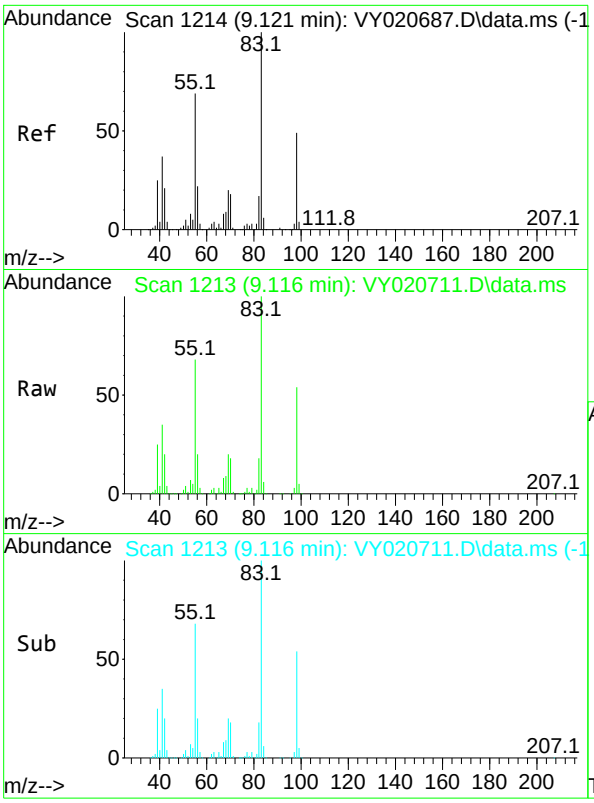




#38
Carbon Tetrachloride
Concen: 101.190 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:117 Resp: 193743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.3 | 74.4 | 111.6 |
| 121 | 32.1 | 24.2 | 36.2 |



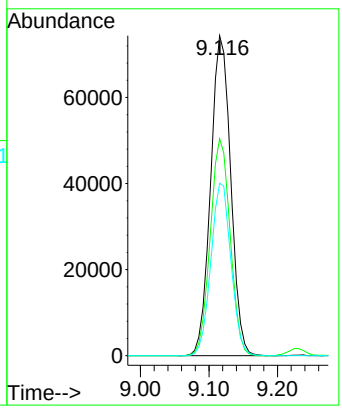


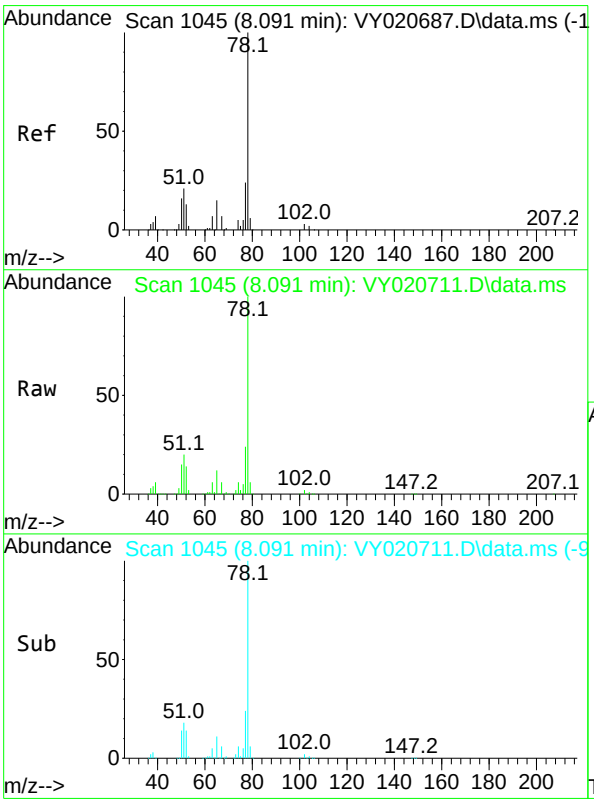

#39
Methylcyclohexane
Concen: 101.582 ug/l
RT: 9.116 min Scan# 1
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 151388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 67.8 | 55.0 | 82.4 |
| 98 | 53.9 | 39.0 | 58.6 |

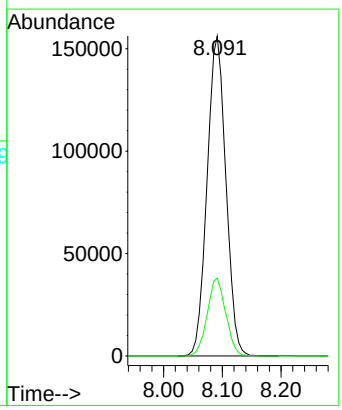


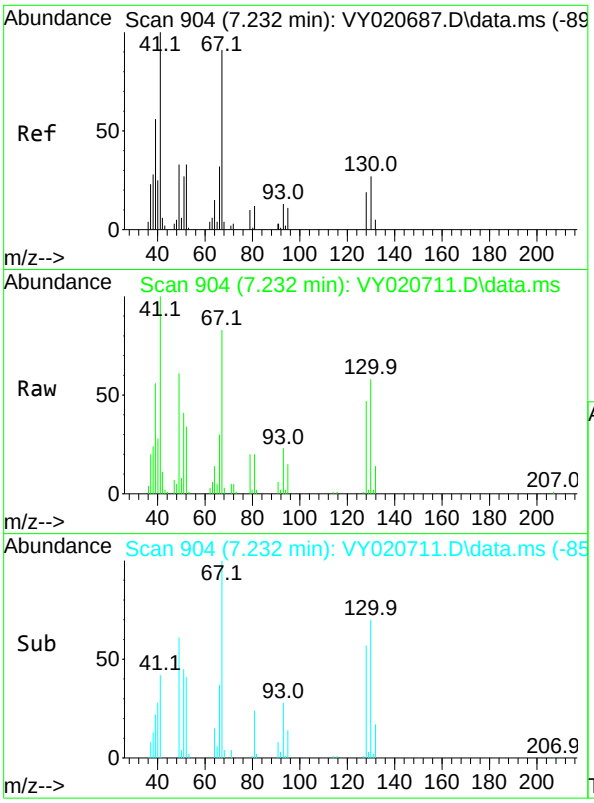




#40
Benzene
Concen: 102.763 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 78 Resp: 346286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 19.2 | 28.8 |



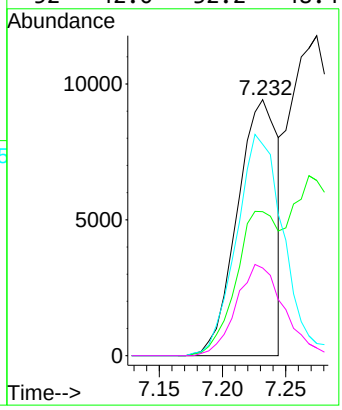


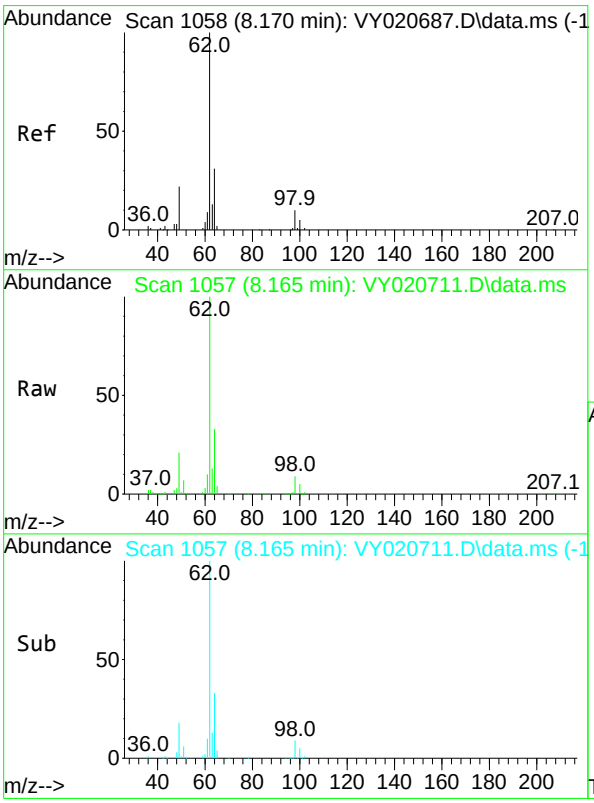

#41
Methacrylonitrile
Concen: 107.636 ug/l
RT: 7.232 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 41 Resp: 20832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.3 | 46.6 | 70.0 |
| 67 | 101.0 | 74.7 | 112.1 |
| 52 | 42.0 | 32.2 | 48.4 |

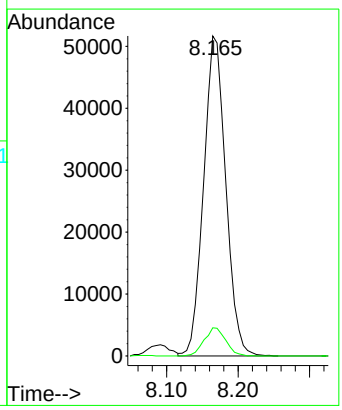


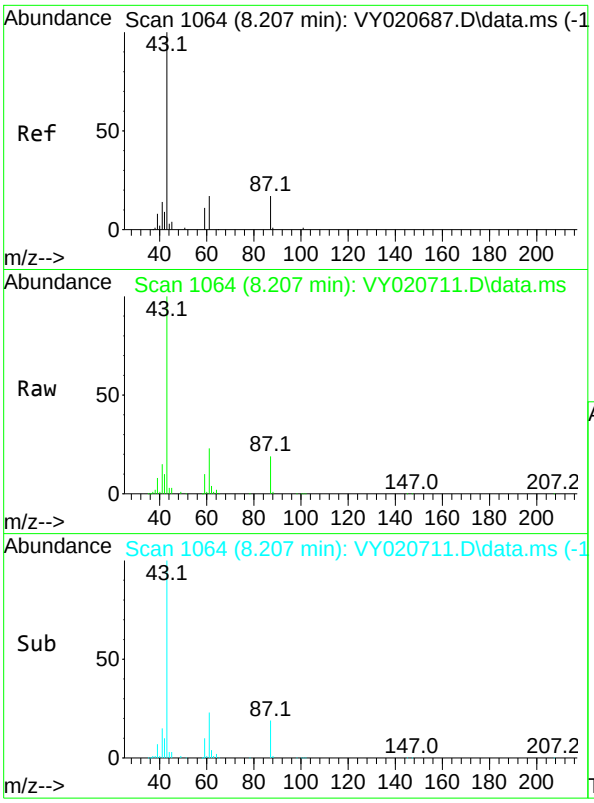




#42
1,2-Dichloroethane
Concen: 102.849 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 62 Resp: 111130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.6 | 0.0 | 16.6 |



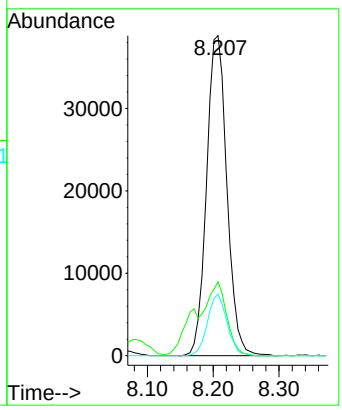


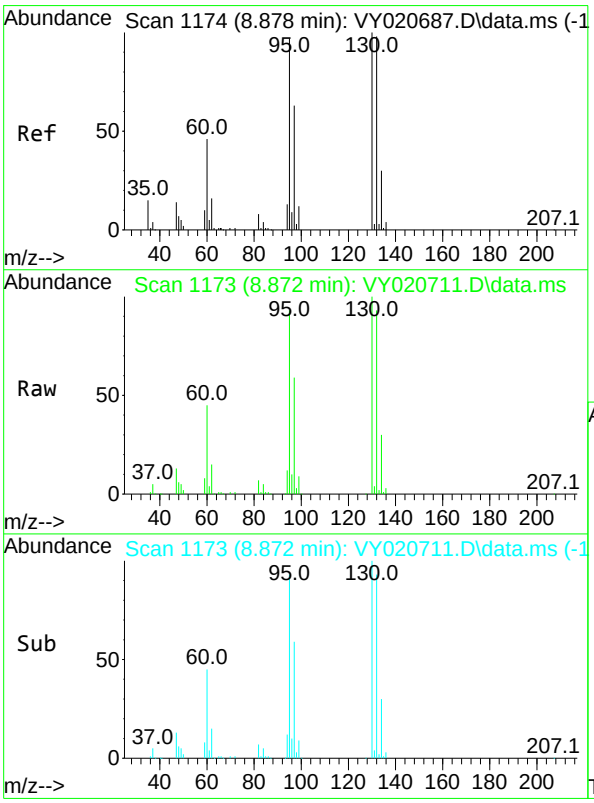

#43
Isopropyl Acetate
Concen: 102.557 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 83521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.7 | 27.0 | 40.4# |
| 87 | 18.5 | 14.2 | 21.4 |

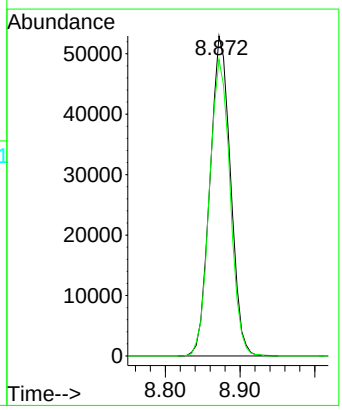


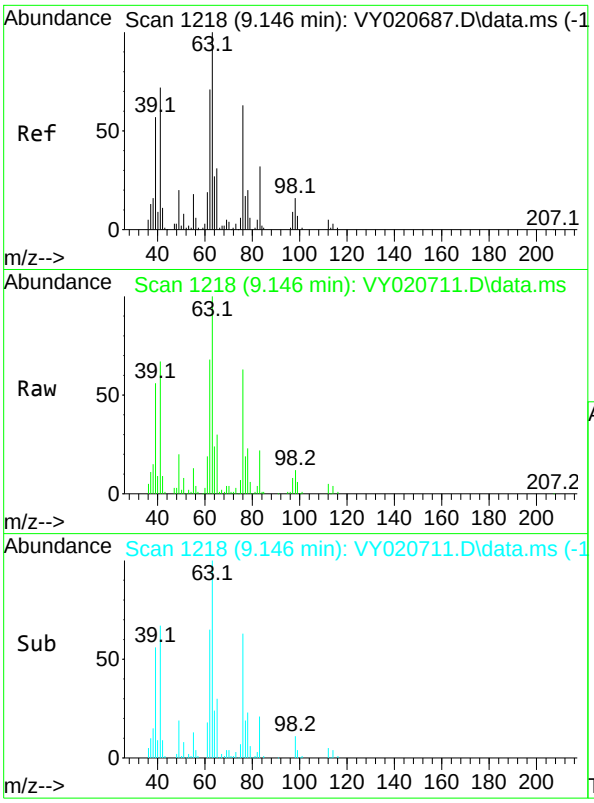




#44
Trichloroethene
Concen: 100.585 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:130 Resp: 101237

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 92.7 | 0.0 | 194.8 |



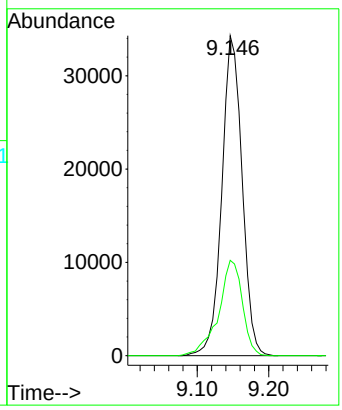


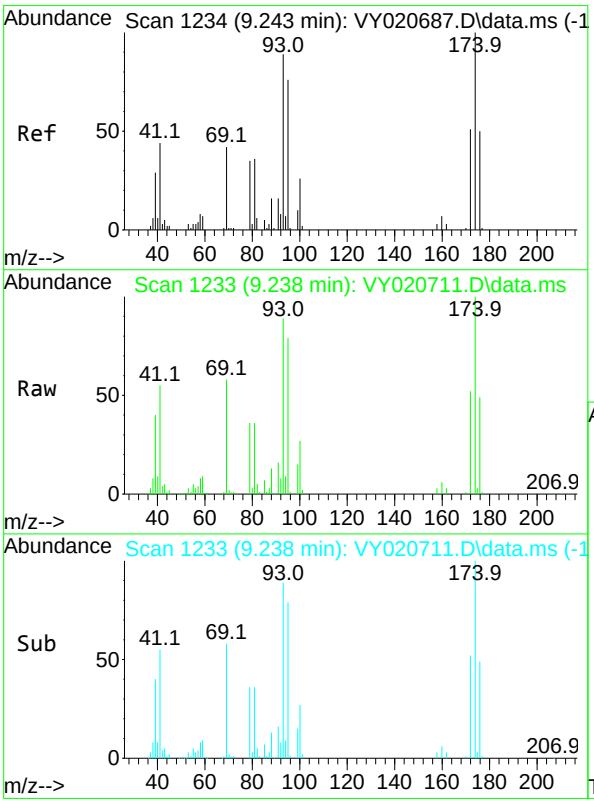

#45
1,2-Dichloropropane
Concen: 98.968 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 63 Resp: 67508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.8 | 24.6 | 36.8 |

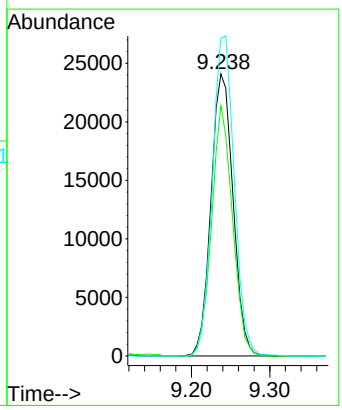


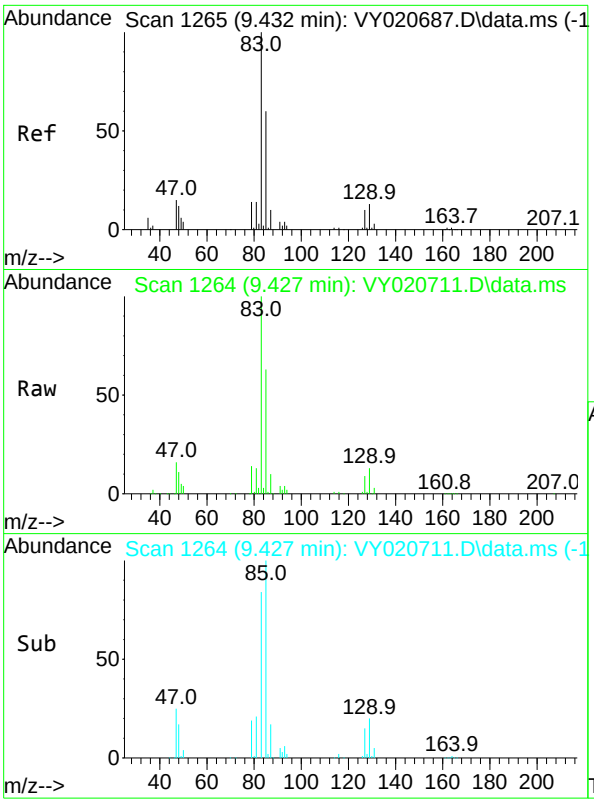




#46
Dibromomethane
Concen: 99.962 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 93 Resp: 47179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.8 | 67.8 | 101.8 |
| 174 | 112.7 | 89.4 | 134.0 |



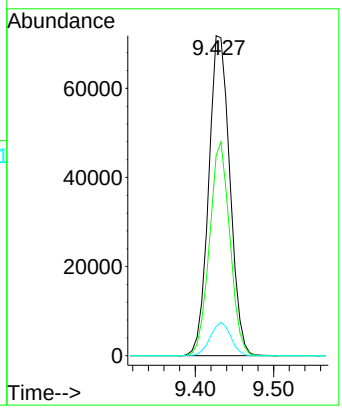


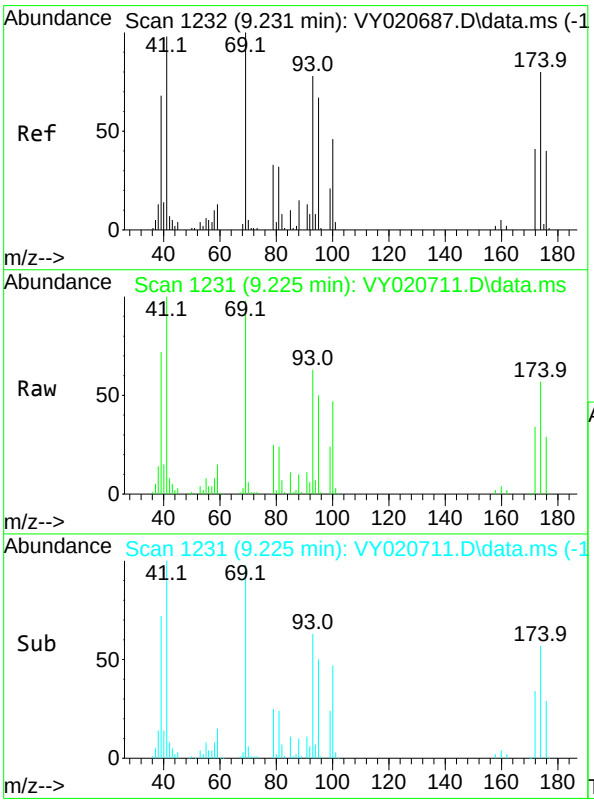

#47
Bromodichloromethane
Concen: 100.613 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.005 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 134627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.5 | 47.6 | 71.4 |
| 127 | 9.1 | 7.9 | 11.9 |

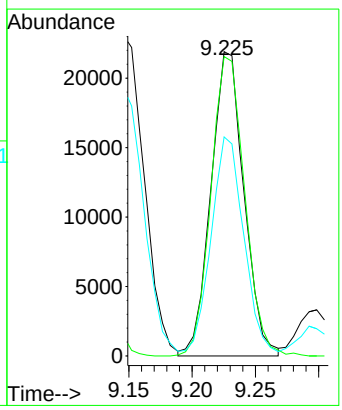


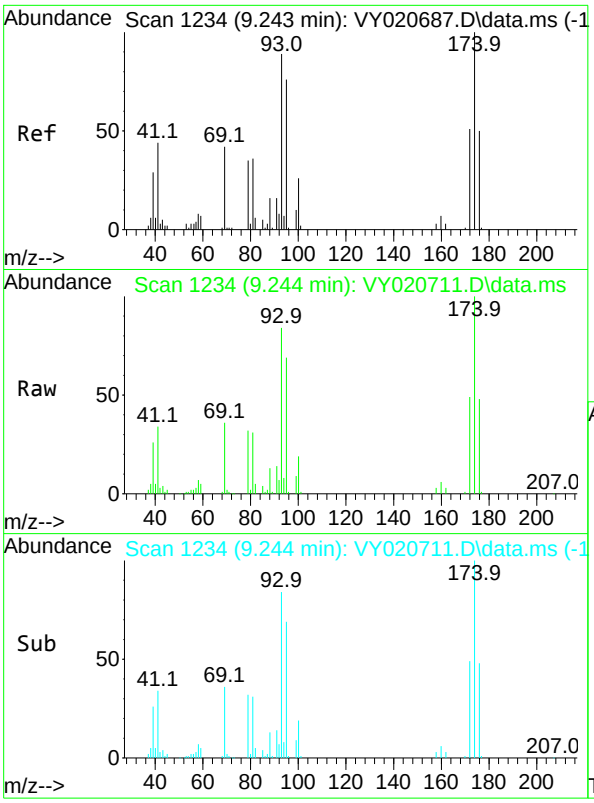




#48
Methyl methacrylate
Concen: 104.314 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 41 Resp: 39672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 100.4 | 83.1 | 124.7 |
| 39 | 69.2 | 57.3 | 85.9 |



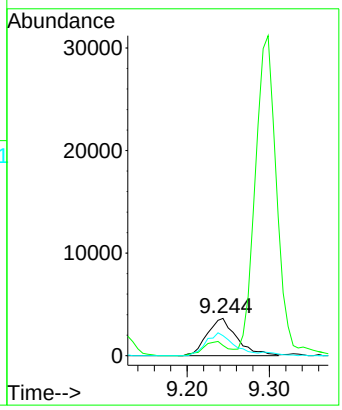


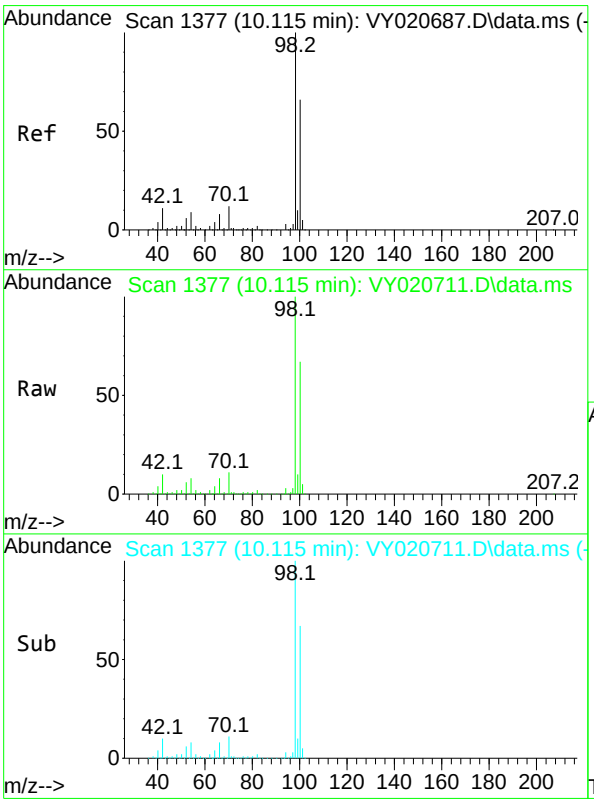

#49
1,4-Dioxane
Concen: 2030.846 ug/l
RT: 9.244 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 88 Resp: 9130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 30.6 | 22.1 | 33.1 |
| 58 | 57.0 | 46.7 | 70.1 |

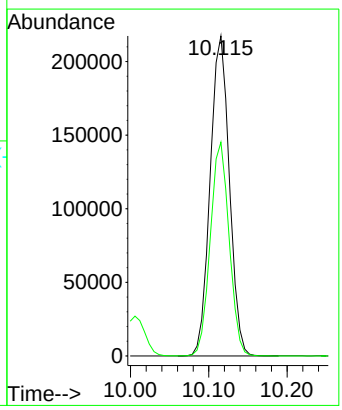


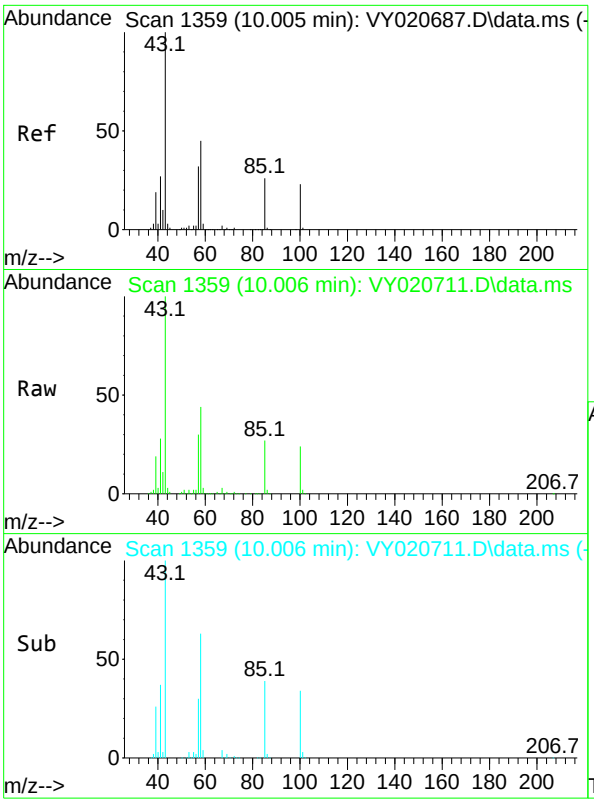




#50
Toluene-d8
Concen: 103.831 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 98 Resp: 370174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.6 | 52.2 | 78.4 |



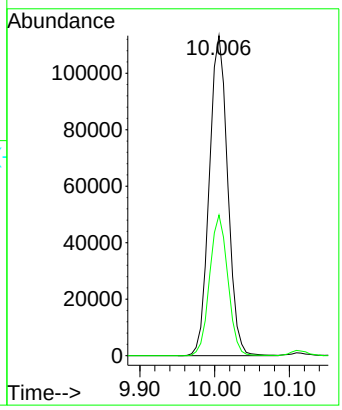


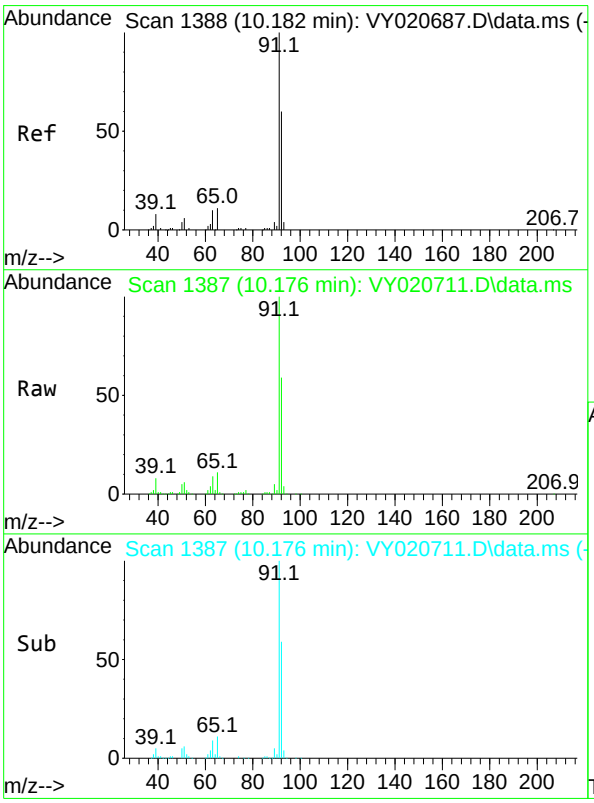

#51
4-Methyl-2-Pentanone
Concen: 493.895 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 194141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.5 | 35.1 | 52.7 |

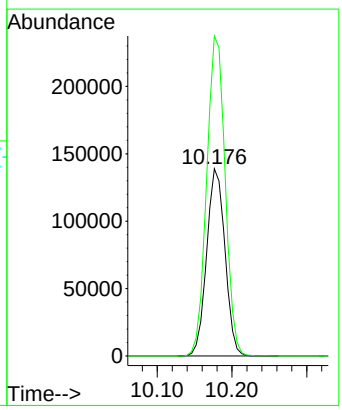


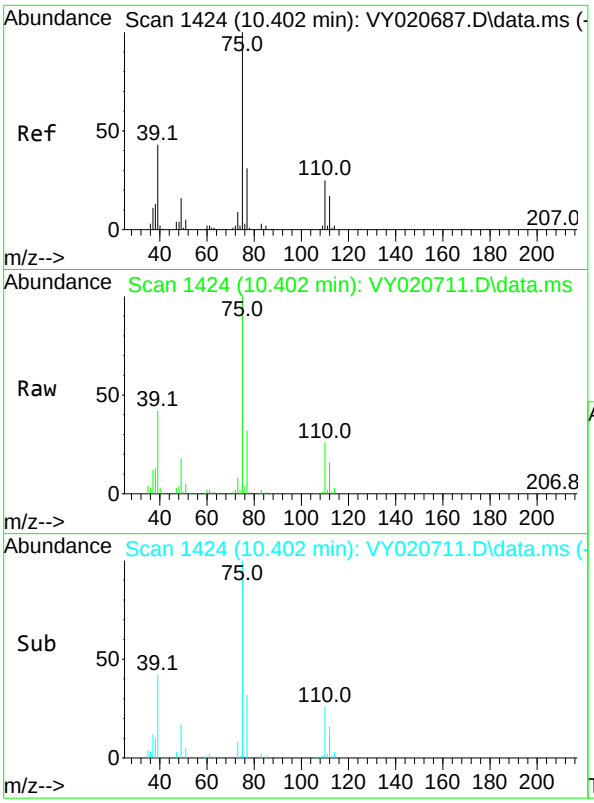




#52
Toluene
Concen: 102.558 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 92 Resp: 236867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.3 | 137.7 | 206.5 |



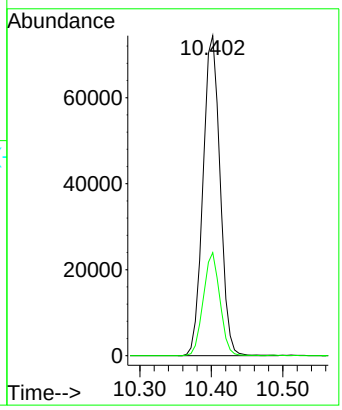


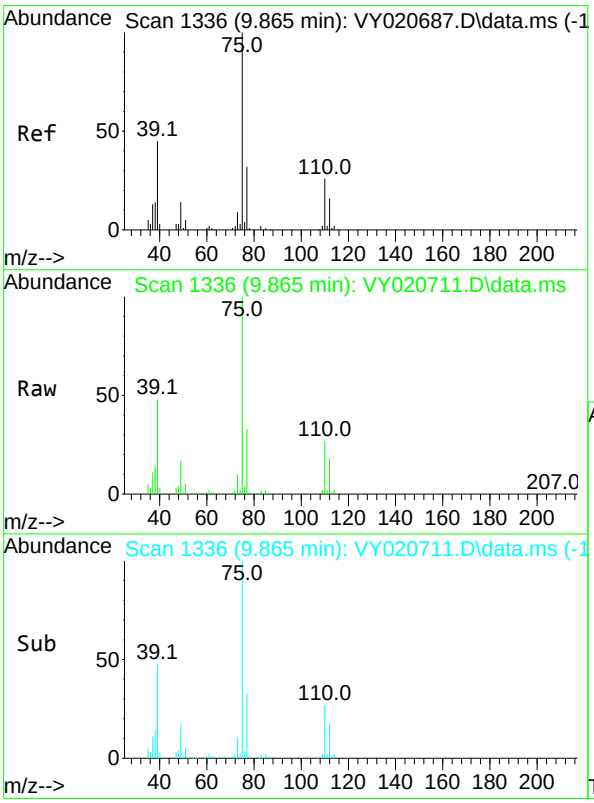

#53
t-1,3-Dichloropropene
Concen: 105.012 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 123413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 25.1 | 37.7 |

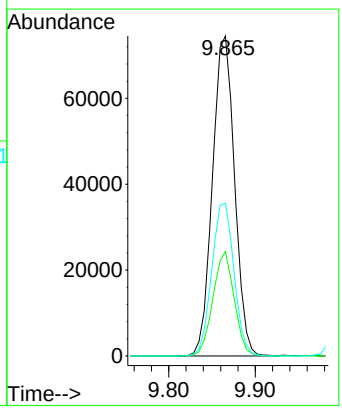


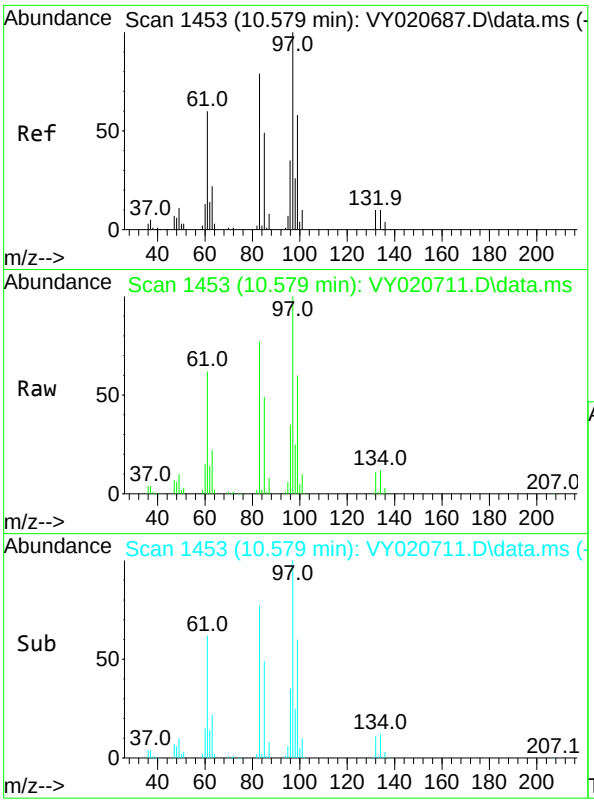




#54
cis-1,3-Dichloropropene
Concen: 102.590 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 75 Resp: 132154

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.7 | 25.6 | 38.4 |
| 39 | 47.7 | 36.2 | 54.2 |



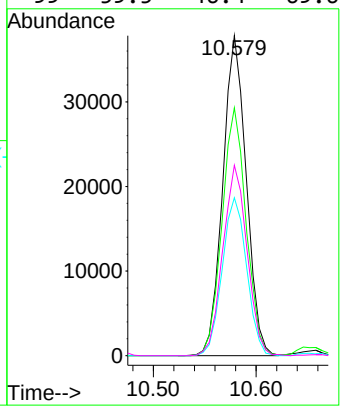


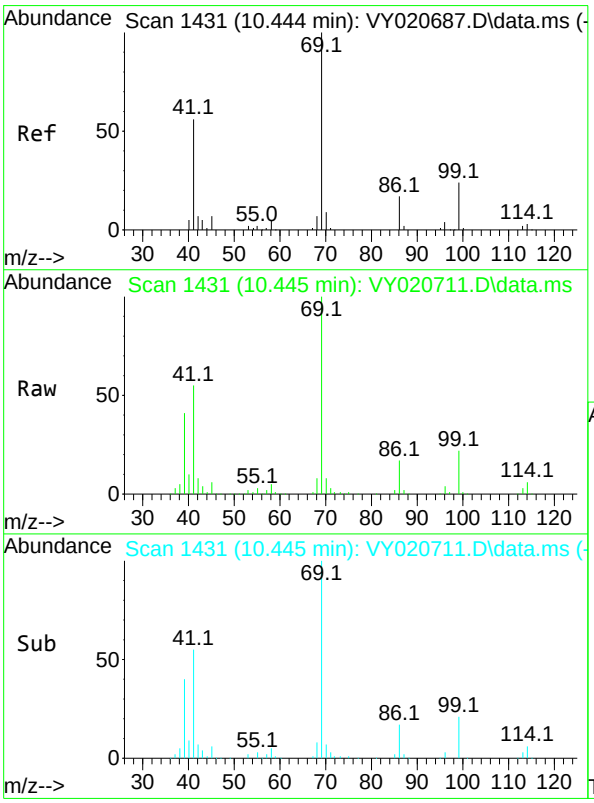

#55
1,1,2-Trichloroethane
Concen: 99.697 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 97 Resp: 60063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 77.5 | 63.1 | 94.7 |
| 85 | 49.4 | 39.5 | 59.3 |
| 99 | 59.5 | 46.4 | 69.6 |

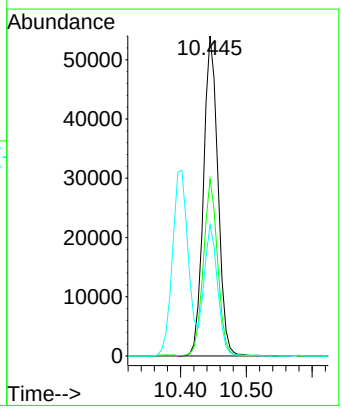


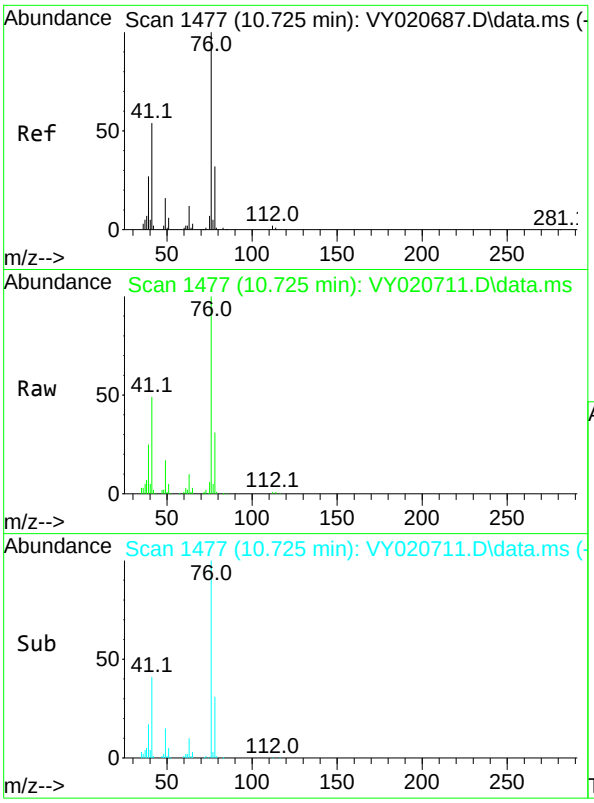




#56
Ethyl methacrylate
Concen: 104.330 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 69 Resp: 82573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 54.4 | 43.8 | 65.6 |
| 39 | 37.7 | 32.0 | 48.0 |



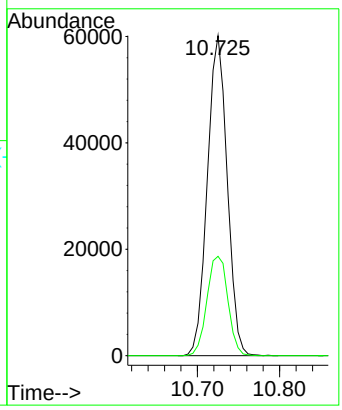


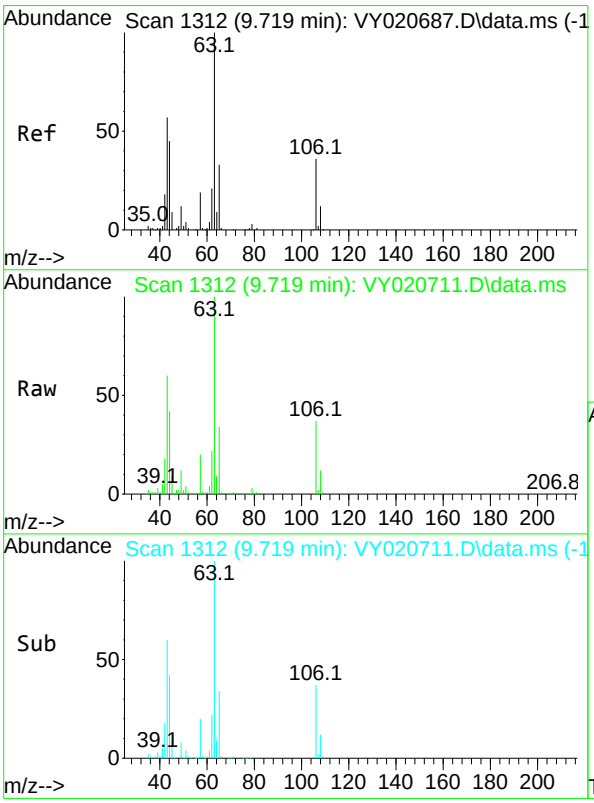

#57
1,3-Dichloropropane
Concen: 103.074 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 100785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 25.0 | 37.6 |

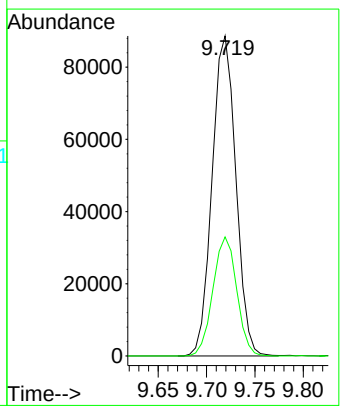


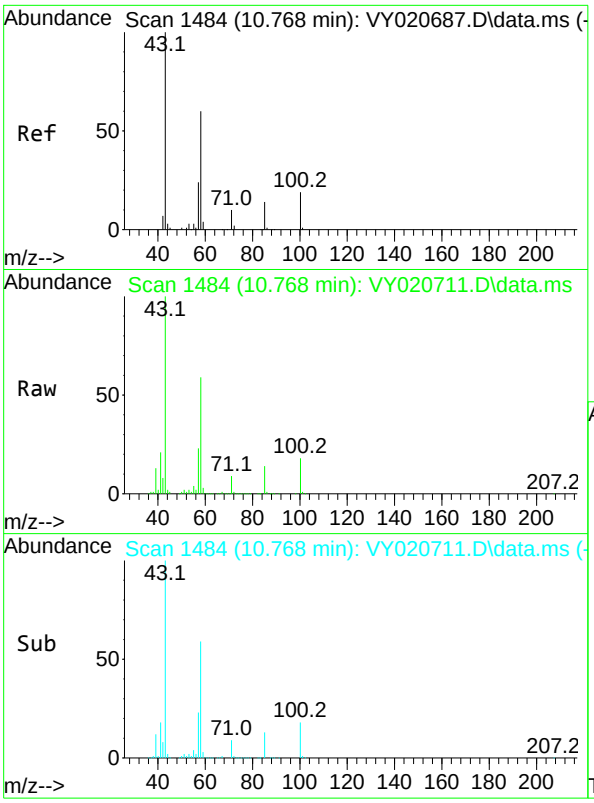




#58
2-Chloroethyl Vinyl ether
Concen: 547.868 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 63 Resp: 151207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 37.2 | 29.1 | 43.7 |



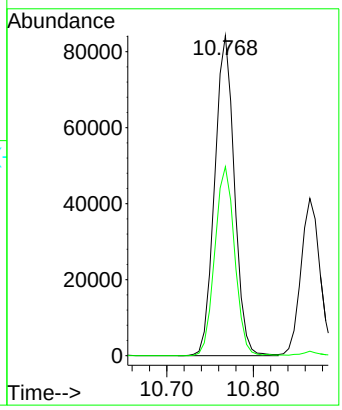


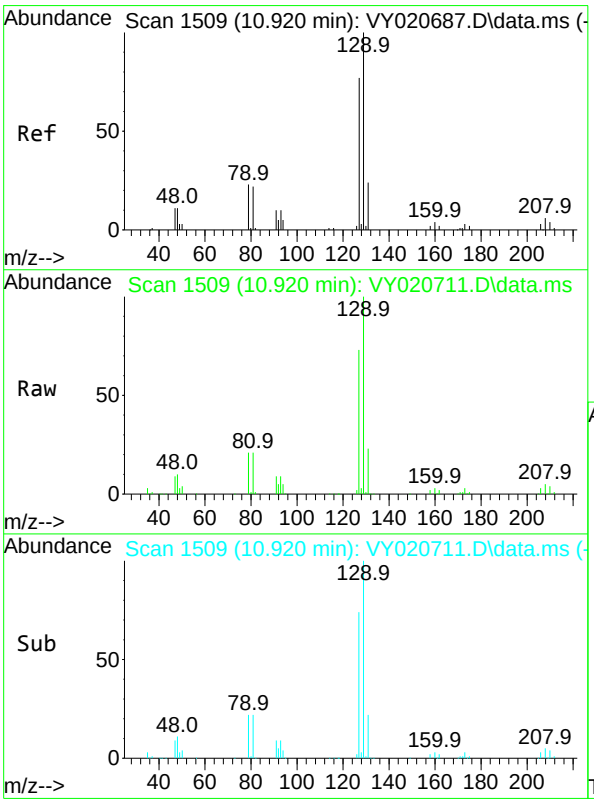

#59
2-Hexanone
Concen: 512.015 ug/l
RT: 10.768 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 132885

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 59.7 | 30.1 | 90.5 |

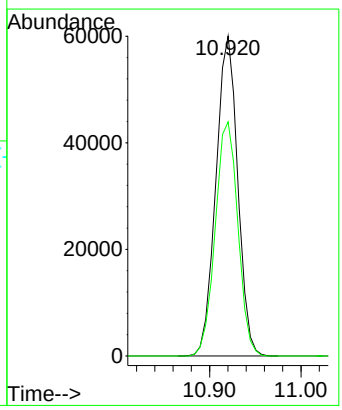


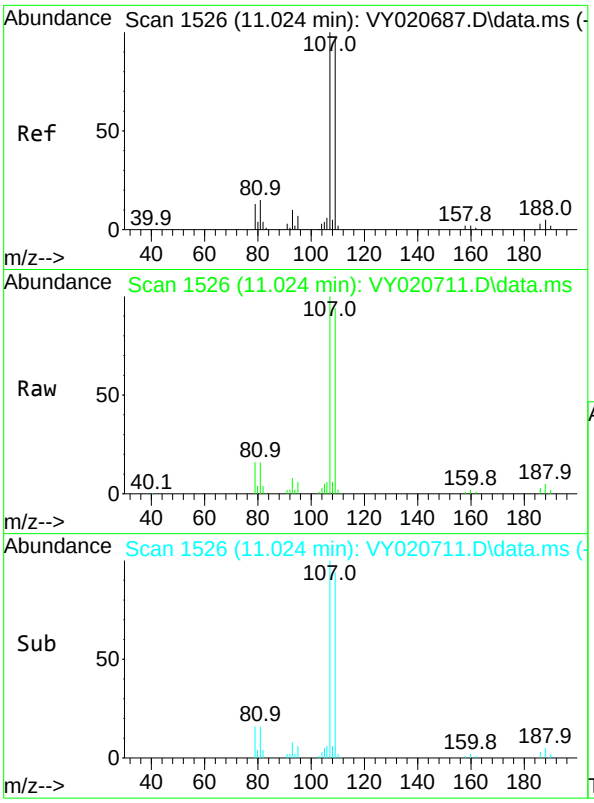




#60
Dibromochloromethane
Concen: 102.326 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:129 Resp: 99612

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 75.8 | 38.5 | 115.5 |



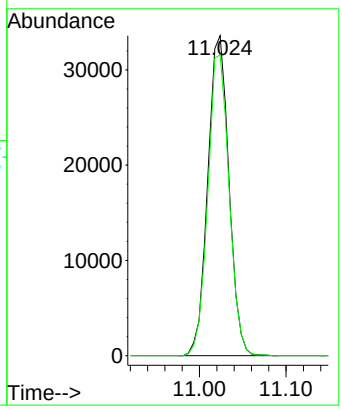


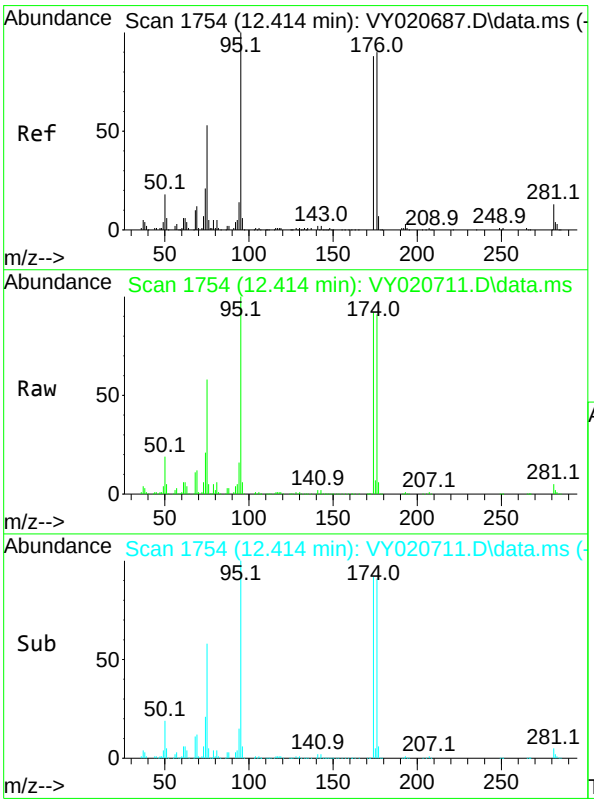

#61
1,2-Dibromoethane
Concen: 100.443 ug/l
RT: 11.024 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:107 Resp: 56939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.6 | 75.5 | 113.3 |

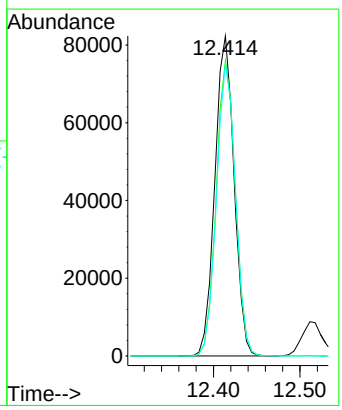


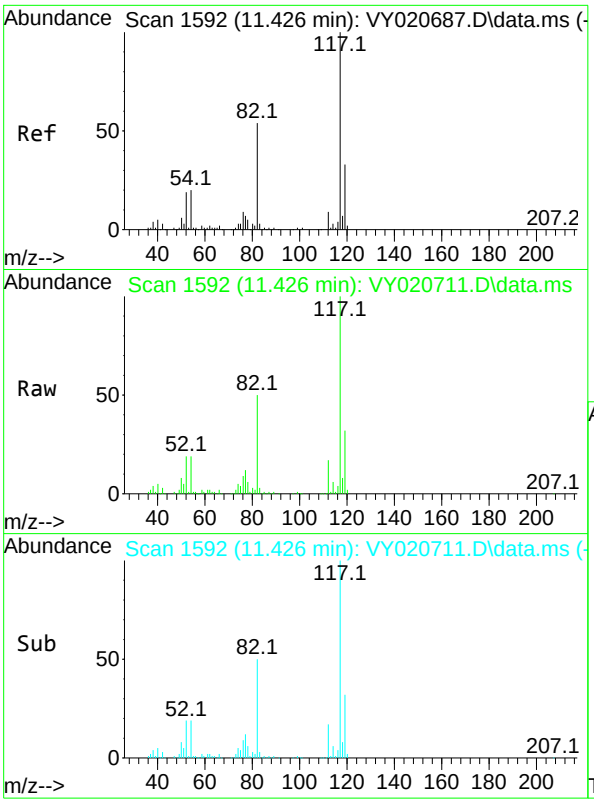




#62
4-Bromofluorobenzene
Concen: 108.473 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 95 Resp: 126890

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 92.3 | 0.0 | 179.2 |
| 176 | 90.0 | 0.0 | 179.8 |



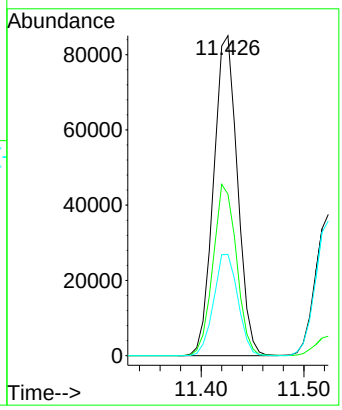


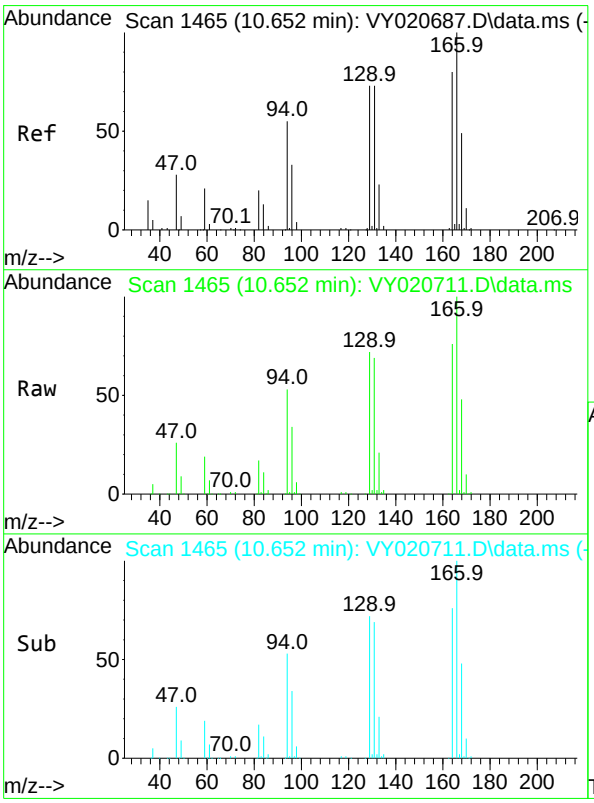

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:117 Resp: 137258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.5 | 43.4 | 65.2 |
| 119 | 31.6 | 26.6 | 39.8 |

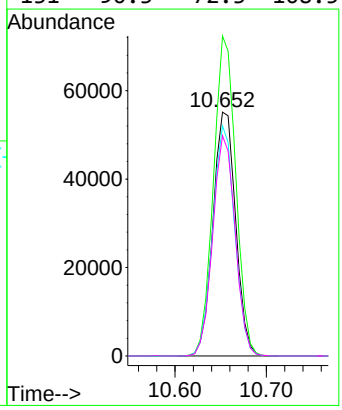


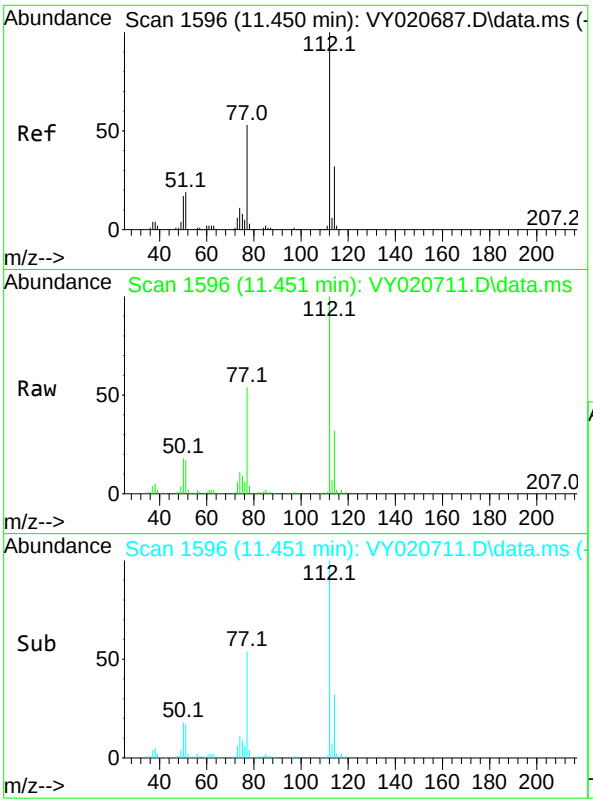




#64
Tetrachloroethene
Concen: 101.351 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:164 Resp: 95043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 131.2 | 99.6 | 149.4 |
| 129 | 94.4 | 73.0 | 109.4 |
| 131 | 90.3 | 72.3 | 108.5 |



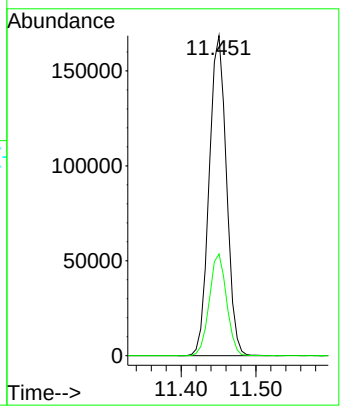


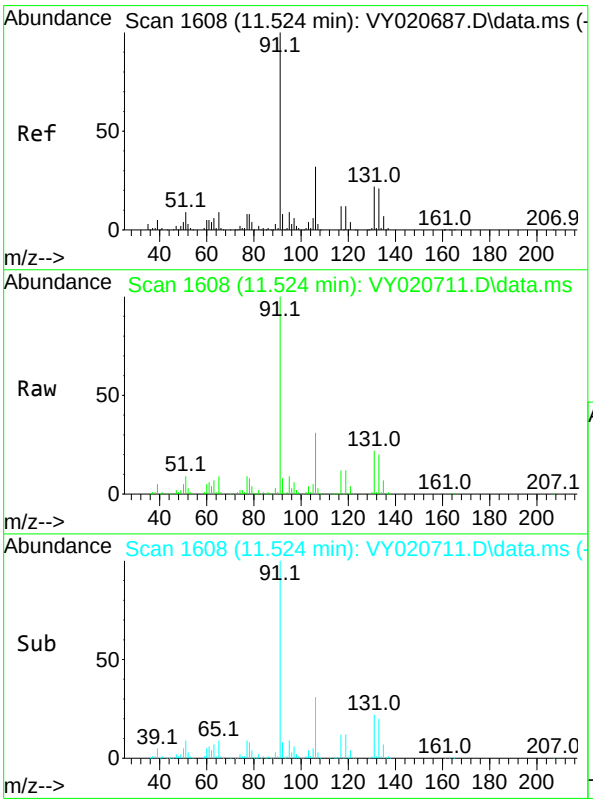

#65
Chlorobenzene
Concen: 100.641 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:112 Resp: 270485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 25.4 | 38.0 |

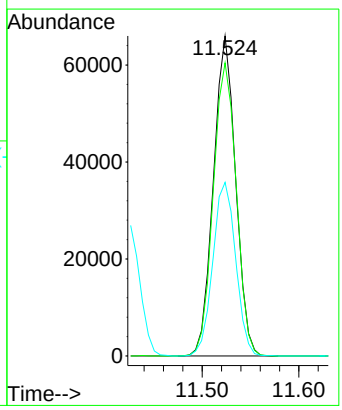


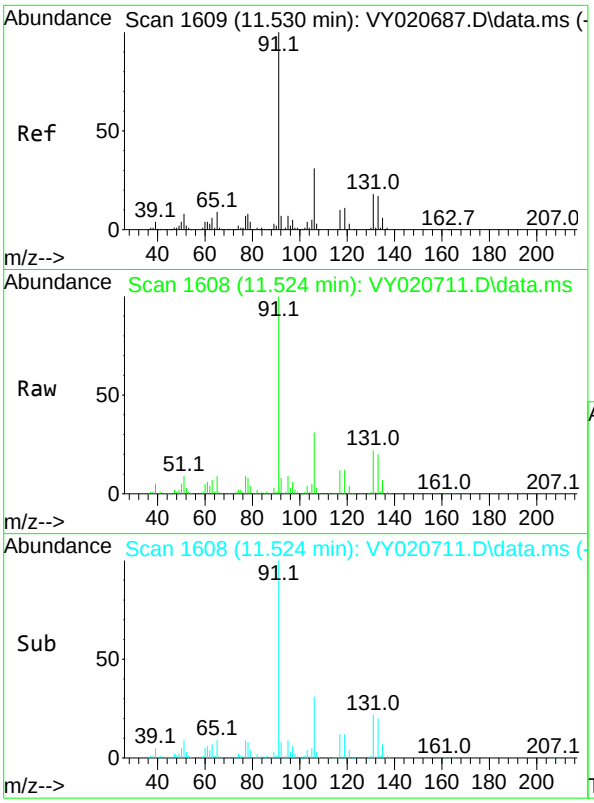




#66
1,1,1,2-Tetrachloroethane
Concen: 101.066 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:131 Resp: 105235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.9 | 48.6 | 145.9 |
| 119 | 55.9 | 28.4 | 85.3 |



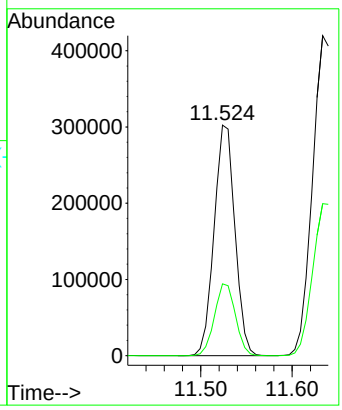


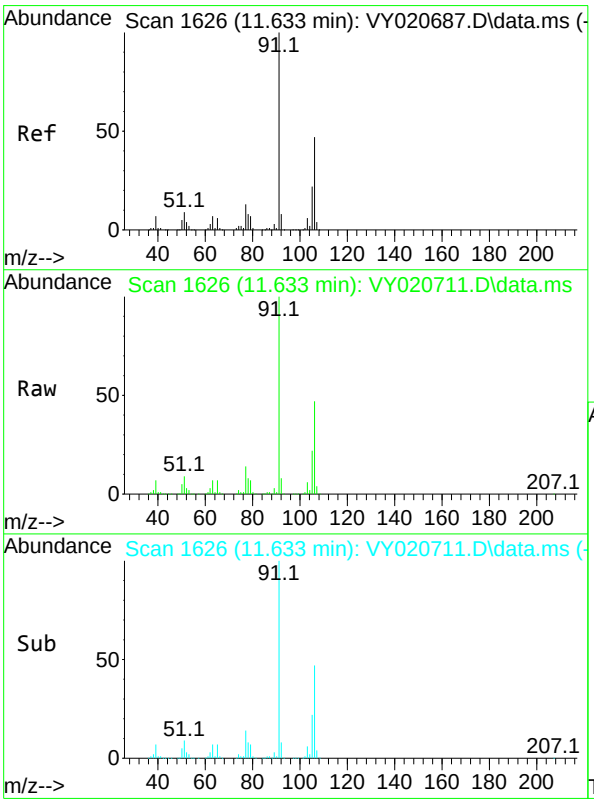

#67
Ethyl Benzene
Concen: 101.867 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 478506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 24.5 | 36.7 |

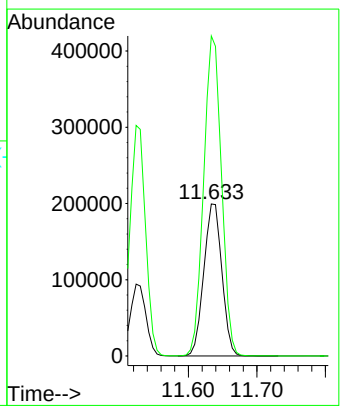


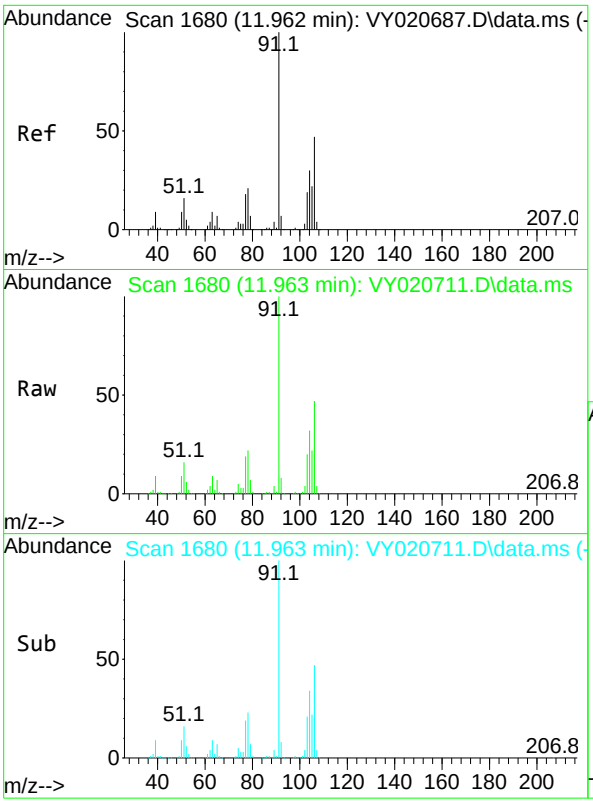




#68
m/p-Xylenes
Concen: 204.314 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:106 Resp: 366100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.8 | 166.6 | 250.0 |



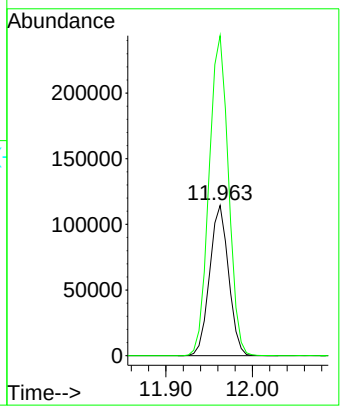


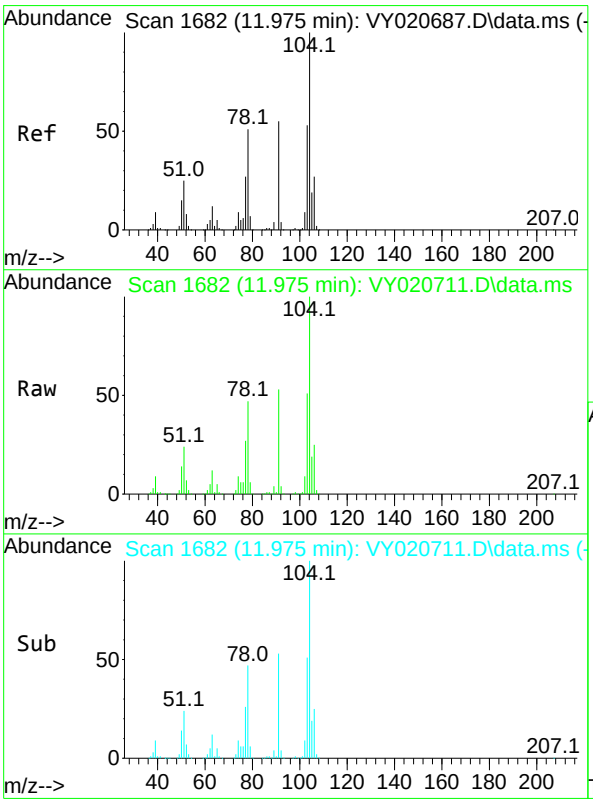

#69
o-Xylene
Concen: 101.366 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:106 Resp: 173536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.0 | 108.6 | 325.8 |

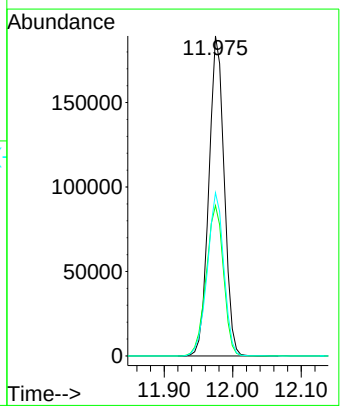


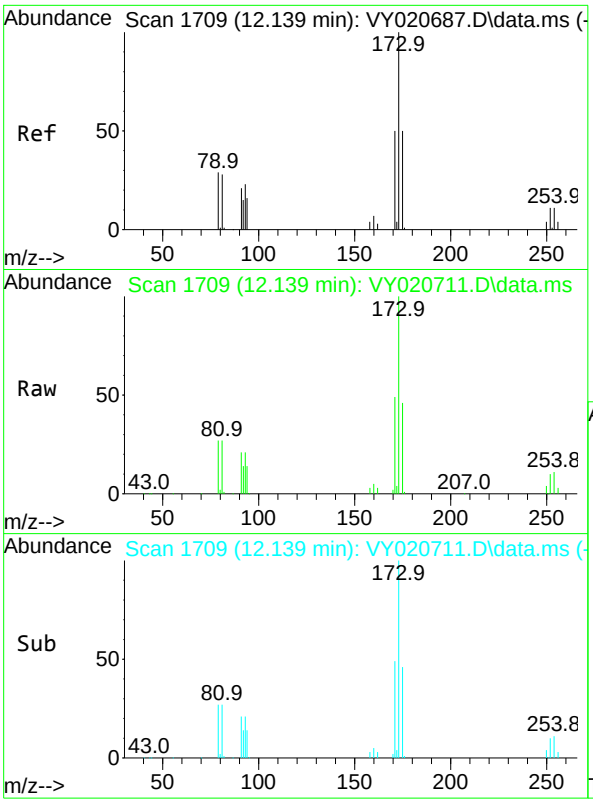




#70
Styrene
Concen: 102.647 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:104 Resp: 294999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.9 | 43.0 | 64.4 |
| 103 | 54.8 | 44.4 | 66.6 |



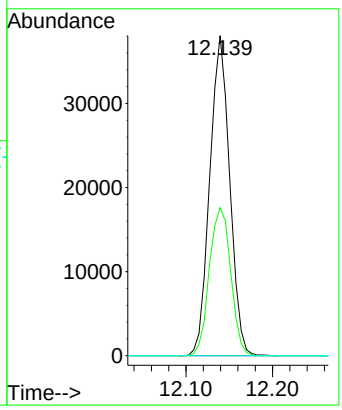


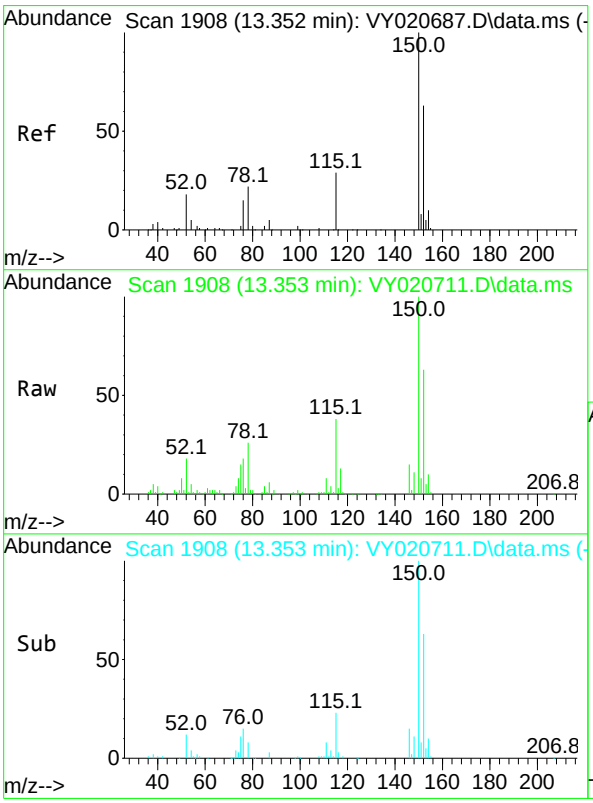

#71
Bromoform
Concen: 101.685 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:173 Resp: 60872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.4 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

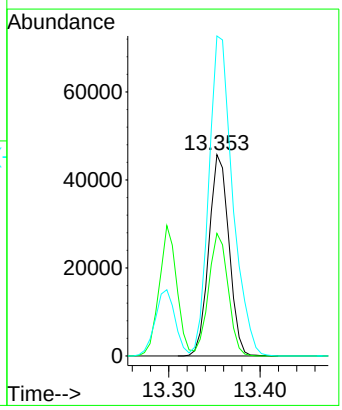


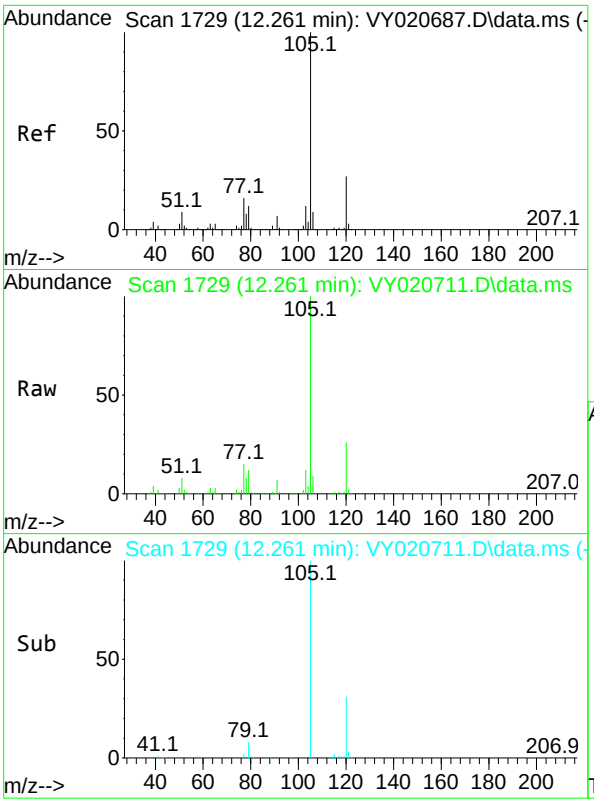




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:152 Resp: 69727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.9 | 30.3 | 90.9 |
| 150 | 188.5 | 0.0 | 349.0 |



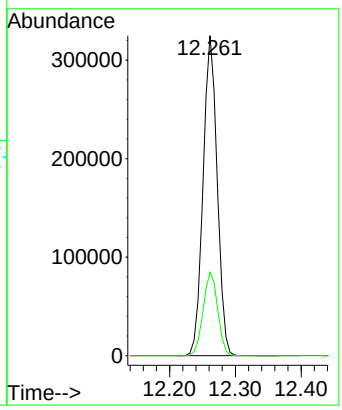


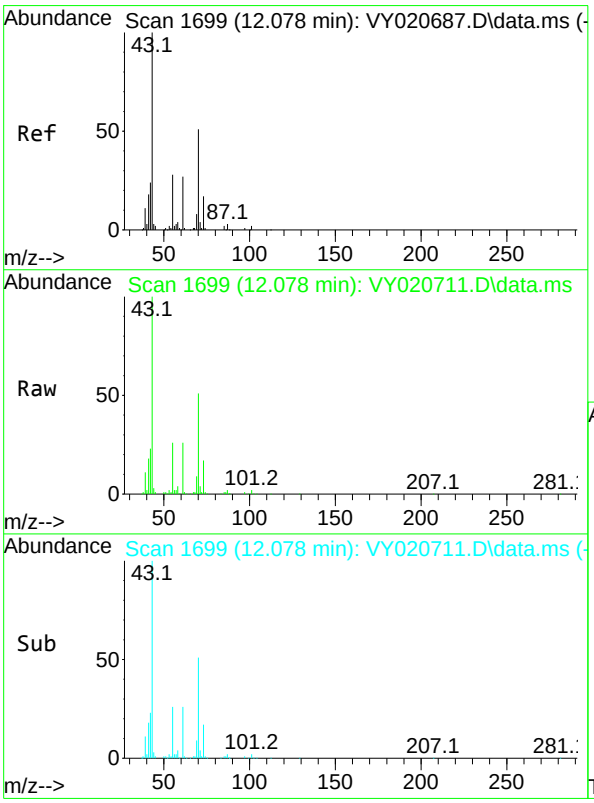

#73
Isopropylbenzene
Concen: 100.300 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 484532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.8 | 13.3 | 39.9 |

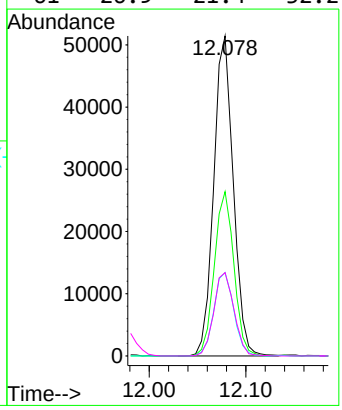


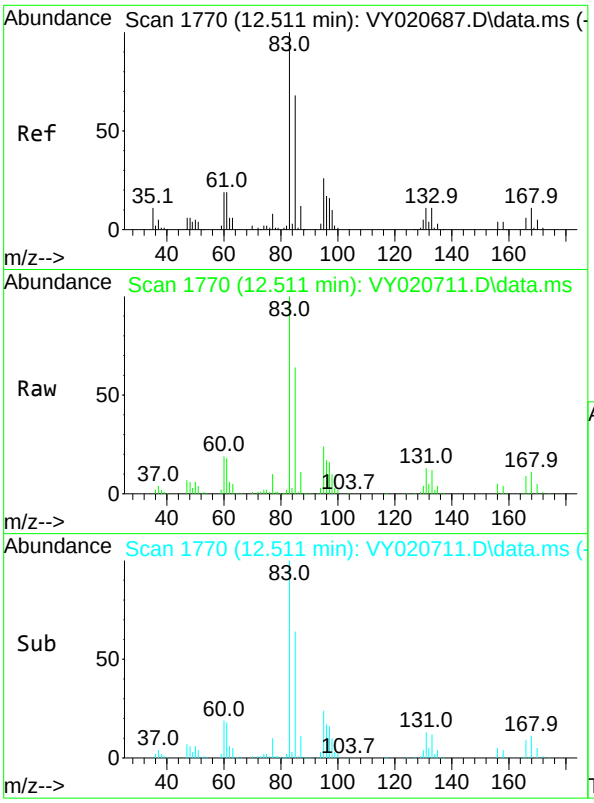




#74
N-amyl acetate
Concen: 105.221 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 43 Resp: 72233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 51.4 | 39.7 | 59.5 |
| 55 | 26.7 | 21.5 | 32.3 |
| 61 | 26.9 | 21.4 | 32.2 |



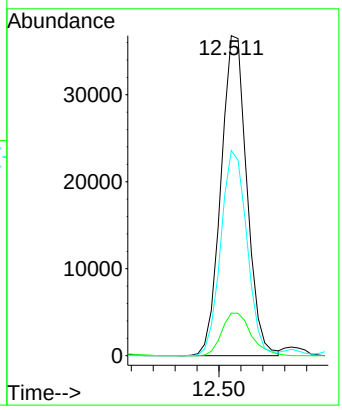


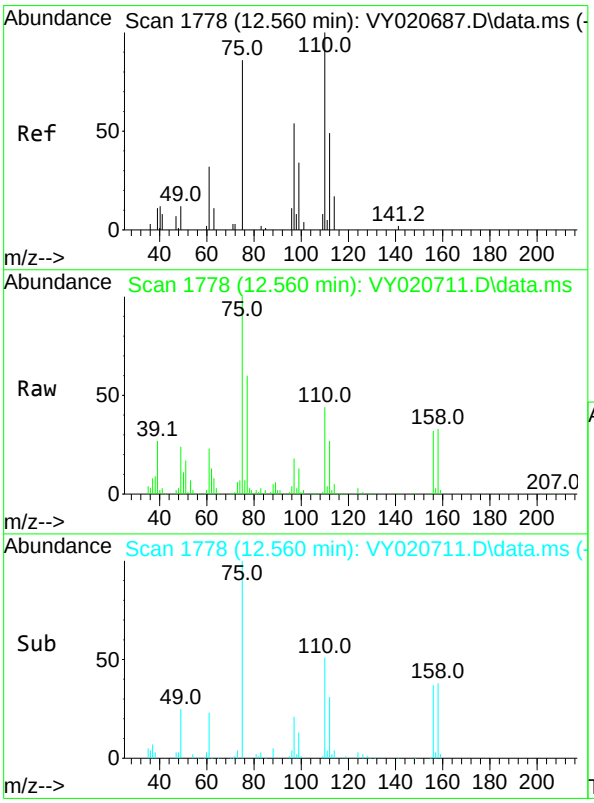

#75
1,1,2,2-Tetrachloroethane
Concen: 97.073 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 60116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 15.1 | 6.9 | 20.7 |
| 85 | 65.0 | 32.5 | 97.4 |

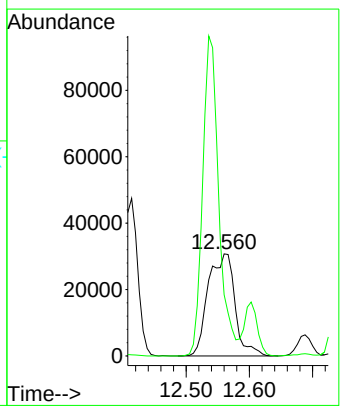


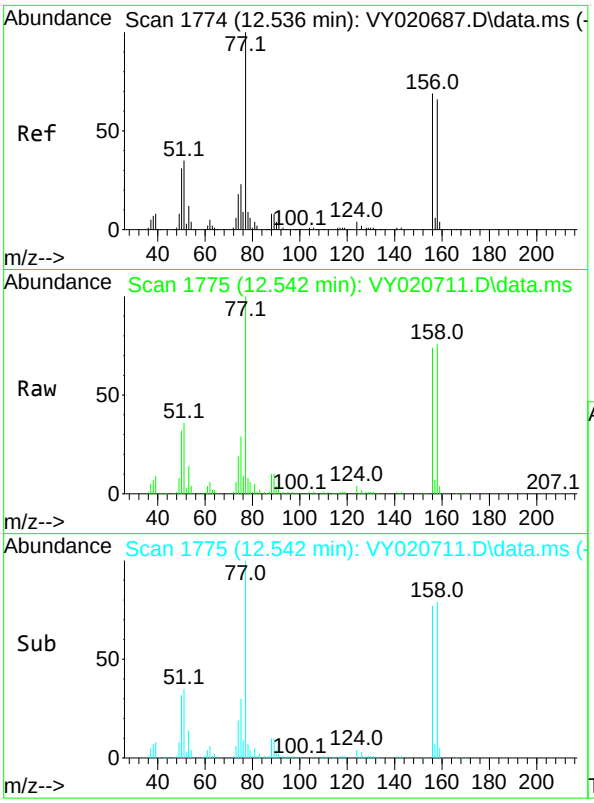




#76
1,2,3-Trichloropropane
Concen: 164.517 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 75 Resp: 90486

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



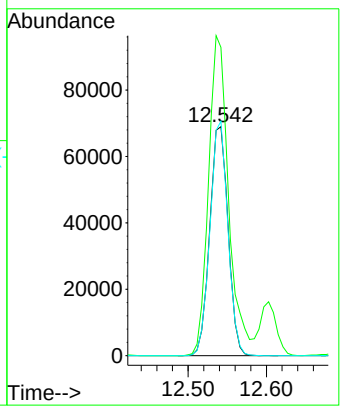


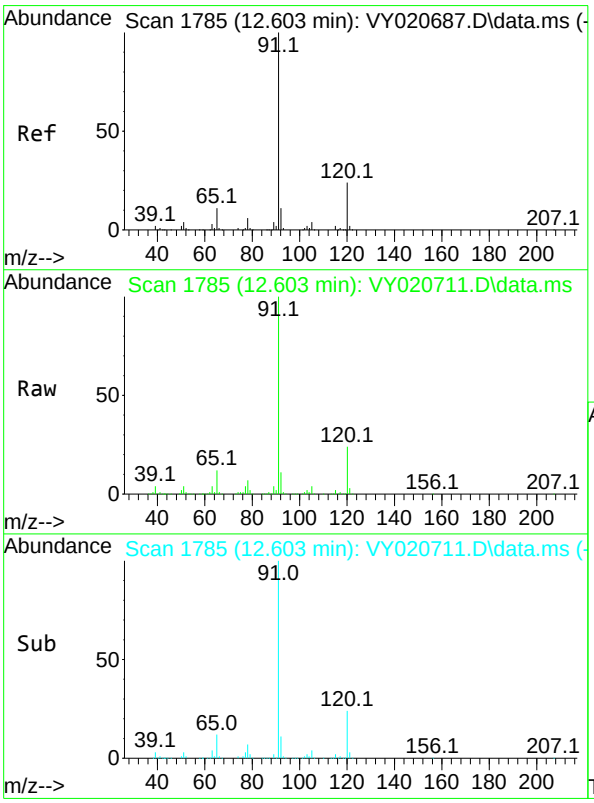

#77
Bromobenzene
Concen: 100.978 ug/l
RT: 12.542 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:156 Resp: 112291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 151.8 | 78.3 | 235.0 |
| 158 | 99.4 | 48.3 | 144.9 |

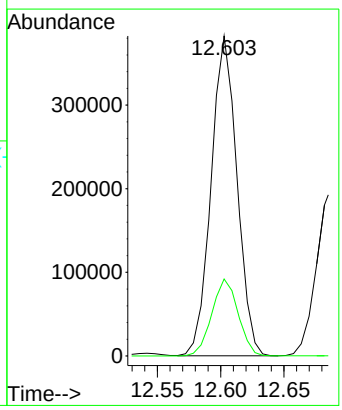


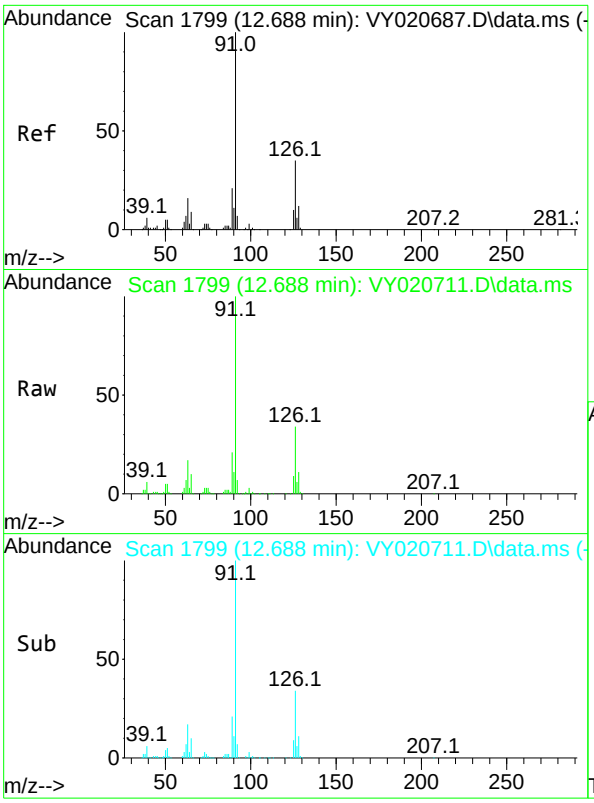




#78
n-propylbenzene
Concen: 100.496 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 91 Resp: 544130

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.4 | 12.3 | 36.8 |



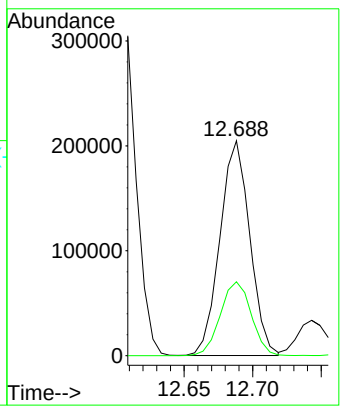


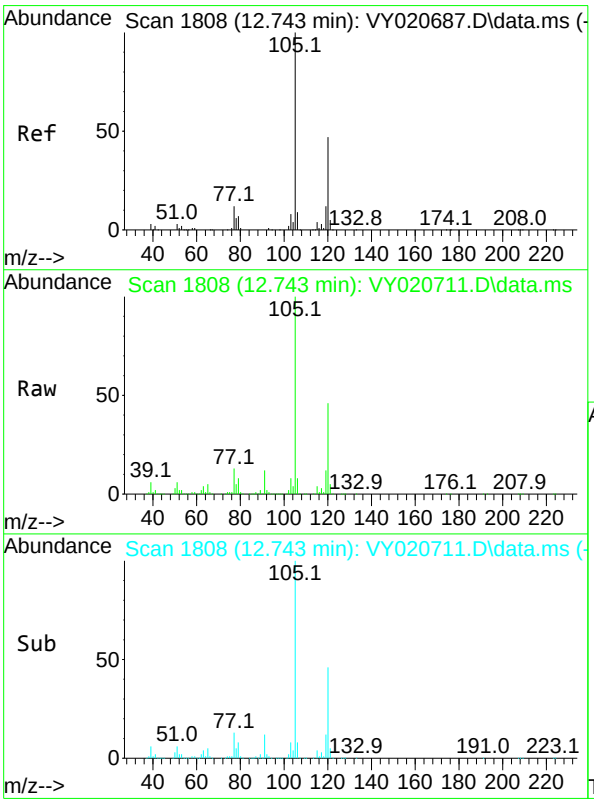

#79
2-Chlorotoluene
Concen: 100.568 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 310413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.6 | 17.8 | 53.3 |

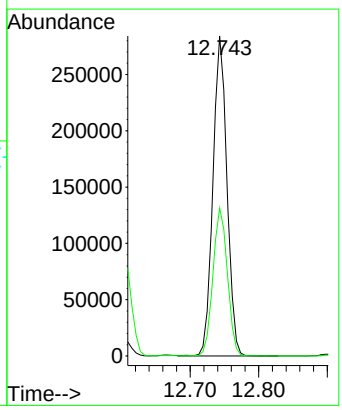


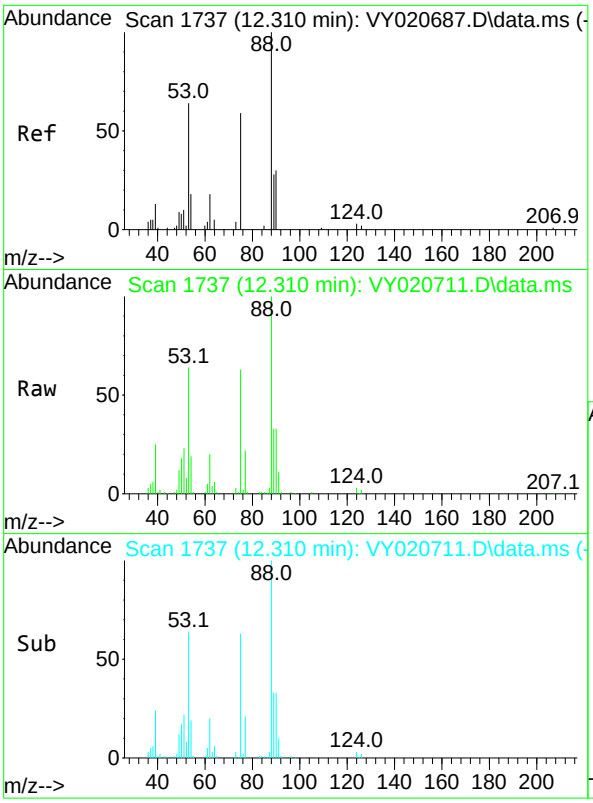




#80
1,3,5-Trimethylbenzene
Concen: 100.572 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:105 Resp: 404786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.5 | 23.9 | 71.7 |



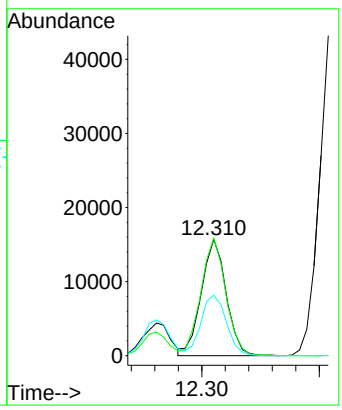


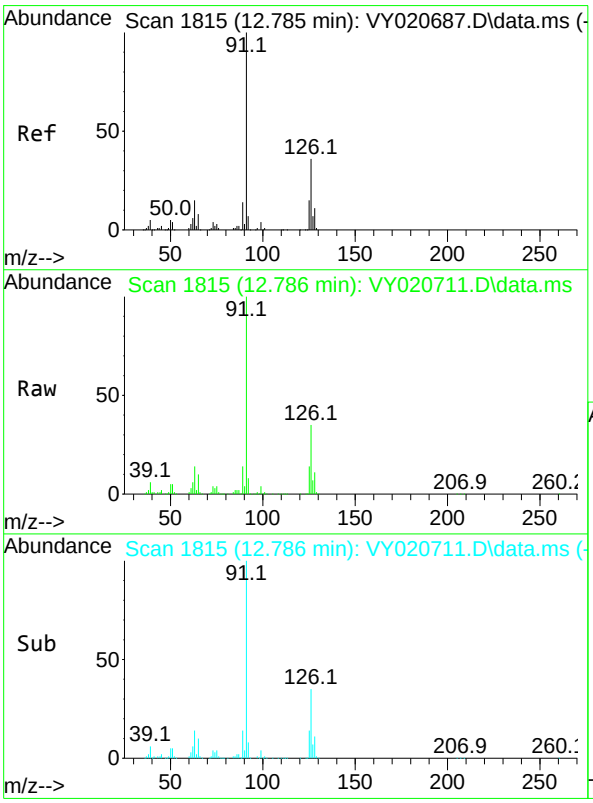

#81
trans-1,4-Dichloro-2-butene
Concen: 102.794 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 23063

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 101.5 | 83.1 | 124.7 |
| 89 | 53.0 | 40.6 | 61.0 |

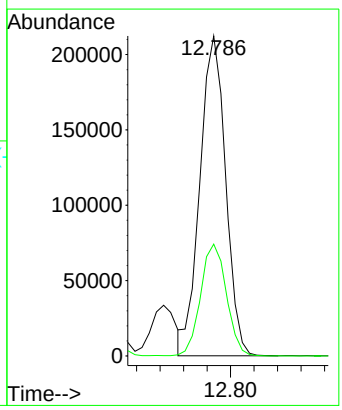


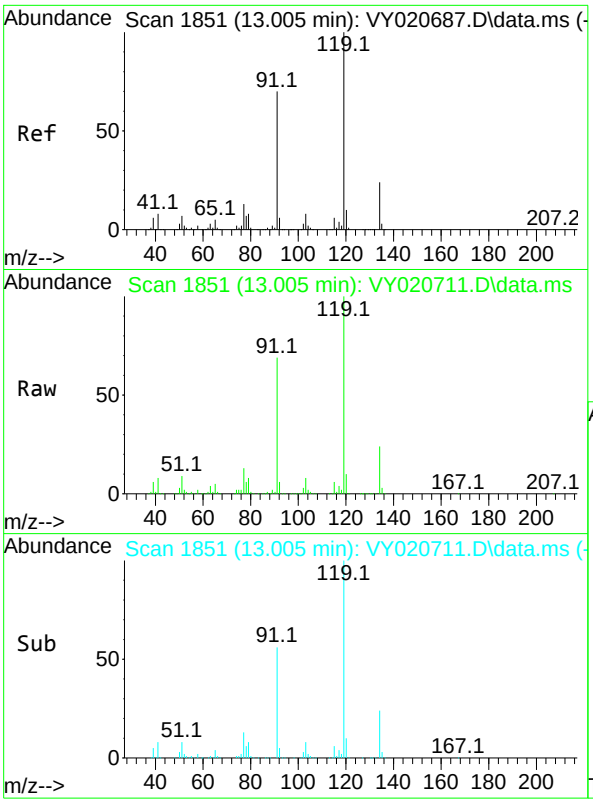




#82
4-Chlorotoluene
Concen: 101.007 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 91 Resp: 322204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.2 | 17.8 | 53.5 |



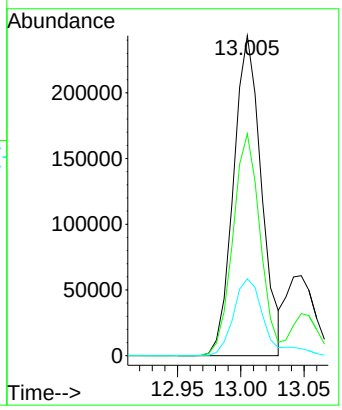


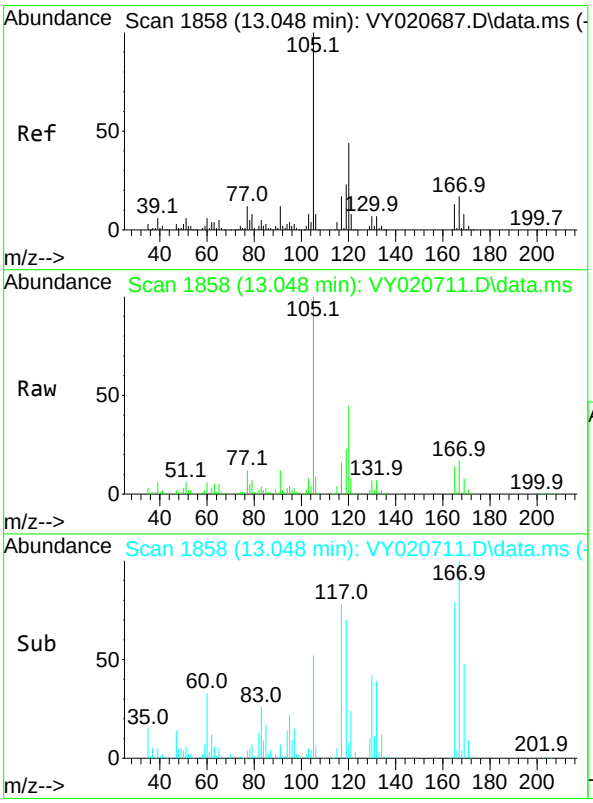

#83
tert-Butylbenzene
Concen: 99.709 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:119 Resp: 374773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.2 | 33.6 | 100.8 |
| 134 | 26.7 | 13.4 | 40.2 |

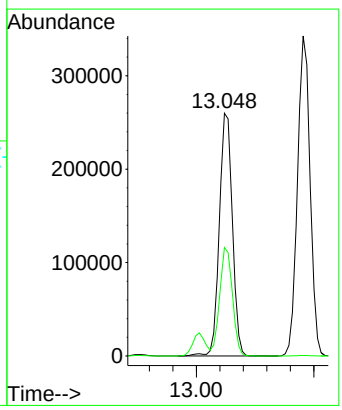


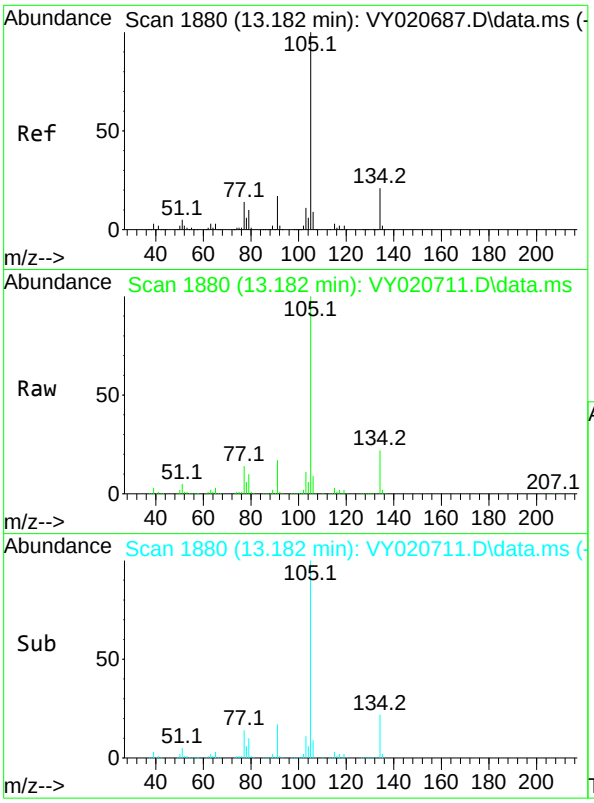




#84
1,2,4-Trimethylbenzene
Concen: 102.079 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:105 Resp: 399805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.8 | 21.8 | 65.3 |



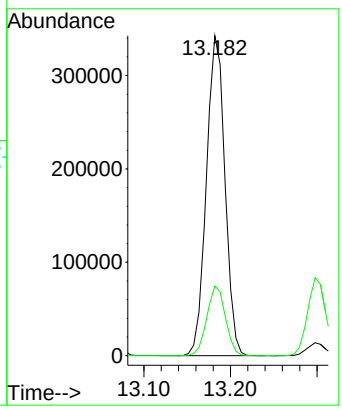


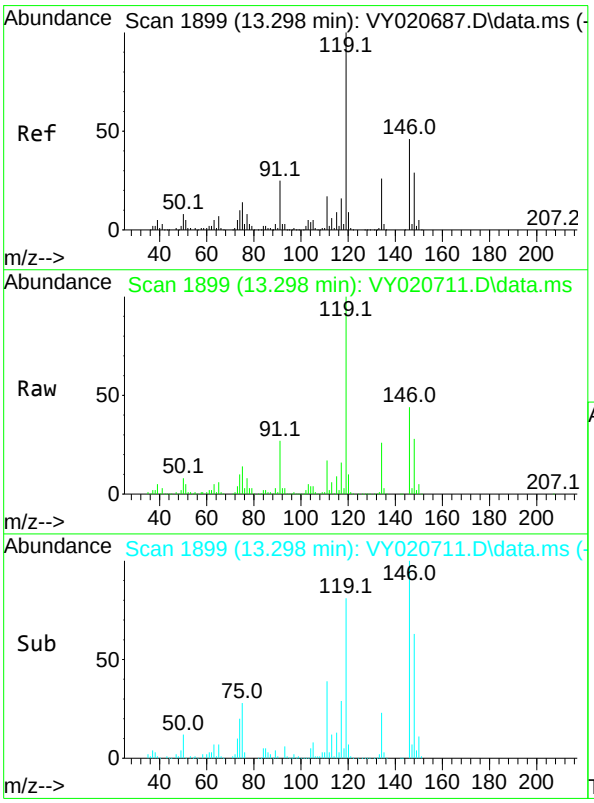

#85
sec-Butylbenzene
Concen: 100.564 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 509425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.8 | 10.7 | 32.1 |

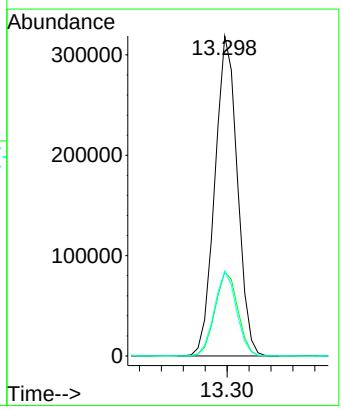


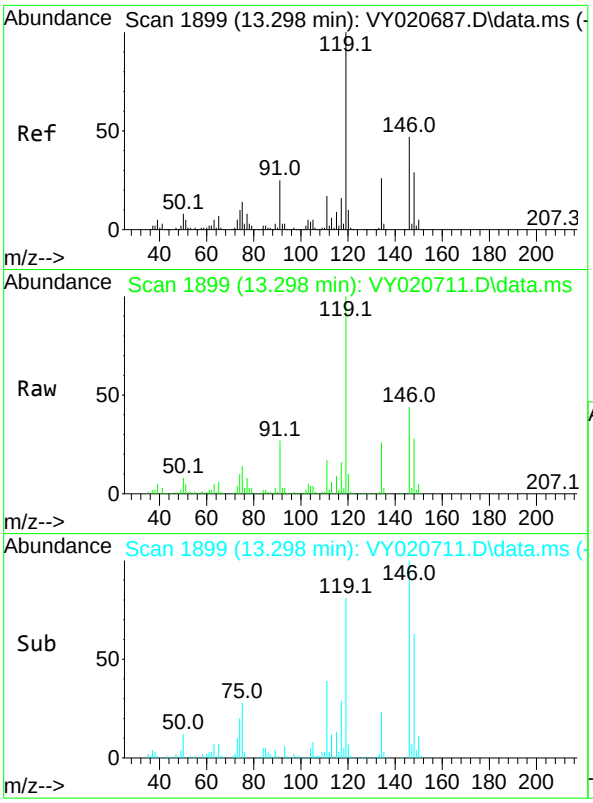




#86
p-Isopropyltoluene
Concen: 100.661 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:119 Resp: 454433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.4 | 40.2 |
| 91 | 26.0 | 12.9 | 38.6 |



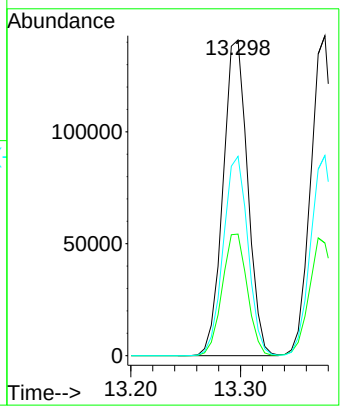


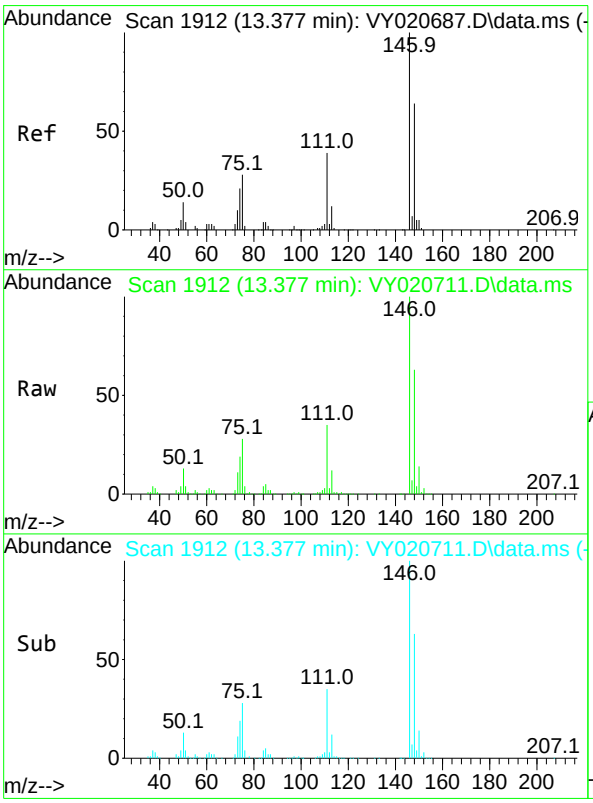

#87
1,3-Dichlorobenzene
Concen: 101.283 ug/l
RT: 13.298 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 220131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.3 | 57.8 |
| 148 | 63.3 | 31.1 | 93.5 |

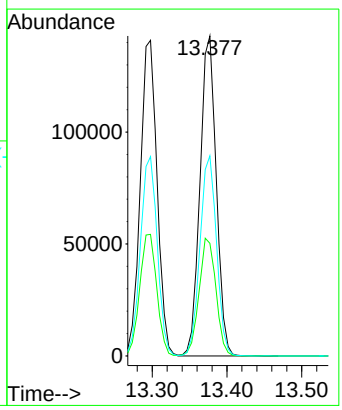


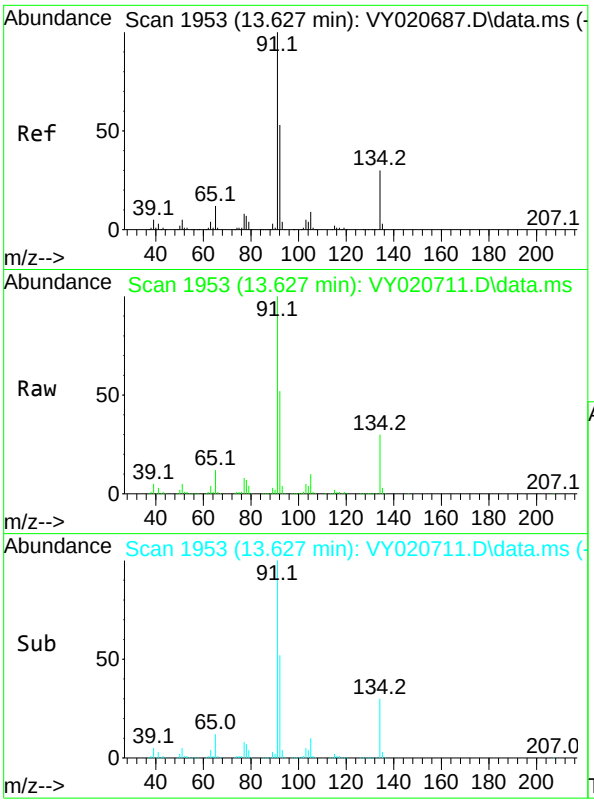




#88
1,4-Dichlorobenzene
Concen: 99.911 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:146 Resp: 216013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 38.1 | 19.7 | 59.0 |
| 148 | 63.8 | 32.8 | 98.3 |



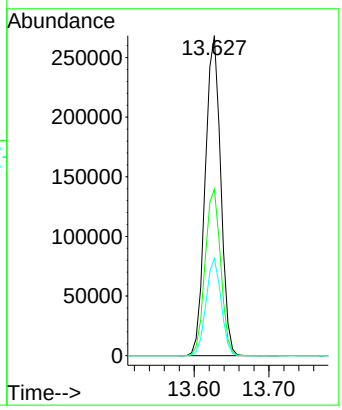


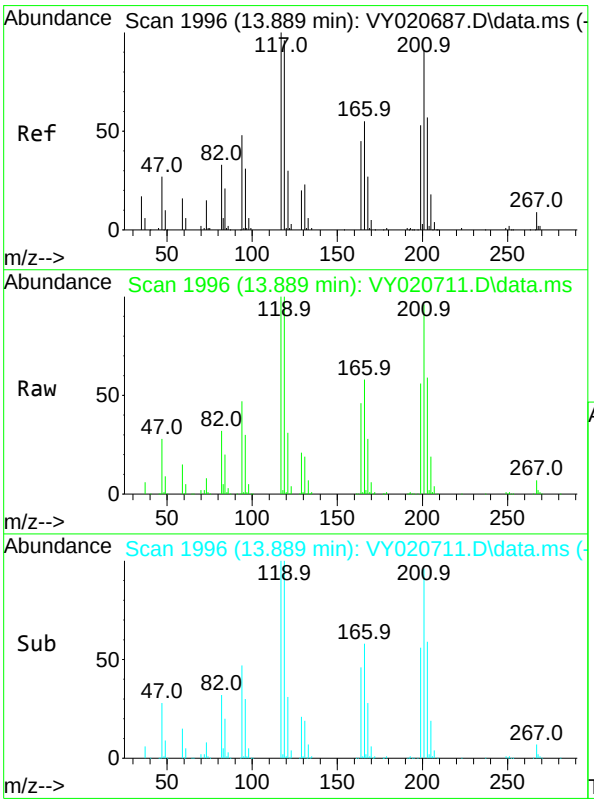

#89
n-Butylbenzene
Concen: 102.152 ug/l
RT: 13.627 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 384958

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.3 | 26.1 | 78.2 |
| 134 | 29.7 | 14.8 | 44.4 |

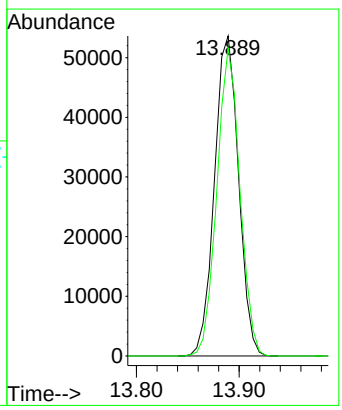


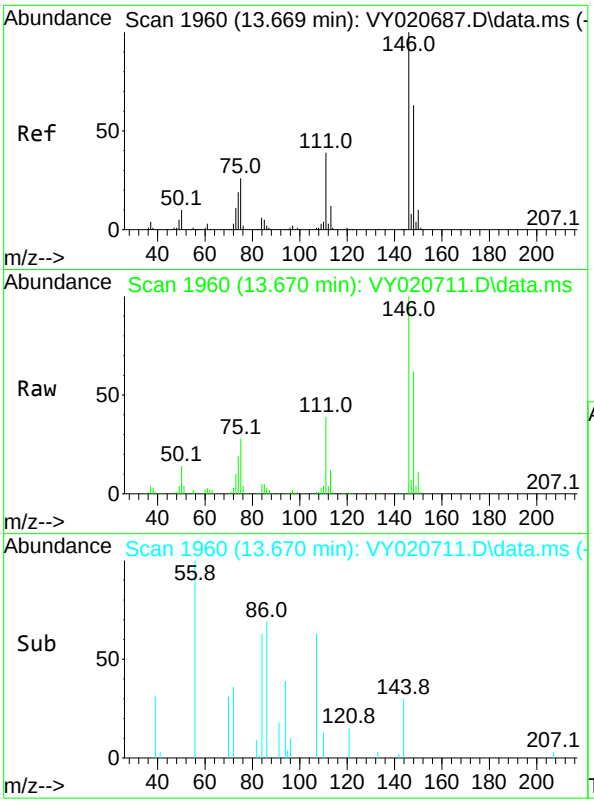




#90
Hexachloroethane
Concen: 101.535 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:117 Resp: 87162

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 92.2 | 44.9 | 134.7 |



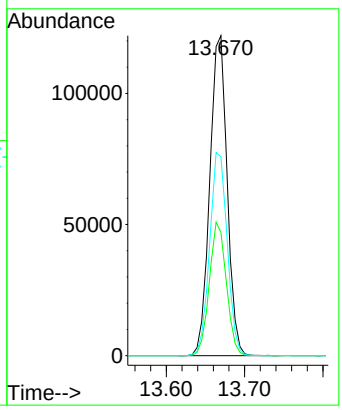


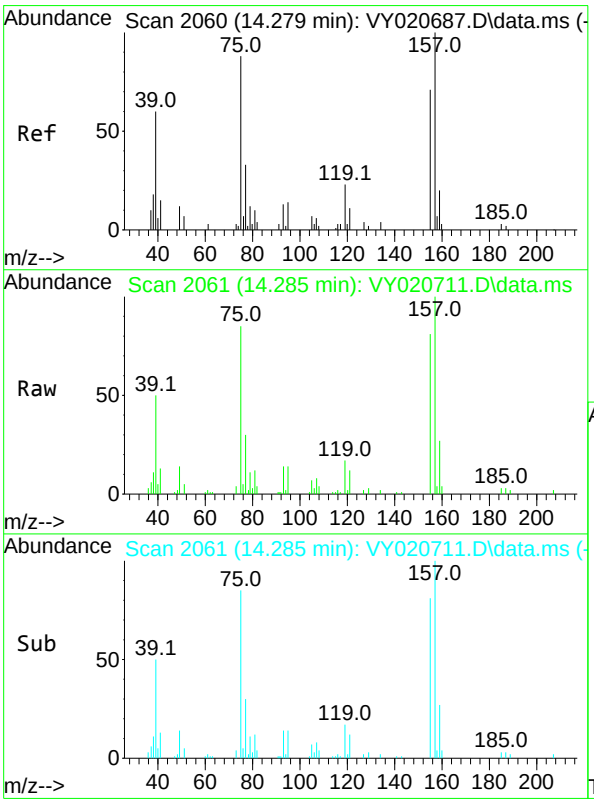

#91
1,2-Dichlorobenzene
Concen: 100.778 ug/l
RT: 13.670 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 187803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.3 | 60.8 |
| 148 | 64.5 | 31.9 | 95.5 |

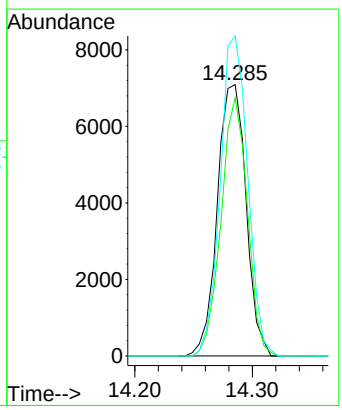


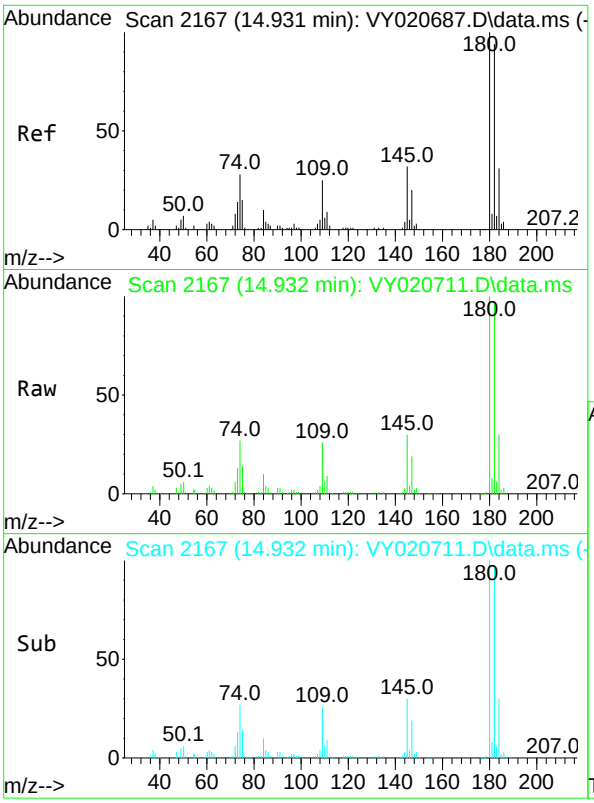




#92
1,2-Dibromo-3-Chloropropane
Concen: 100.298 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion: 75 Resp: 12047

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.1 | 43.4 | 130.2 |
| 157 | 113.0 | 58.6 | 175.7 |



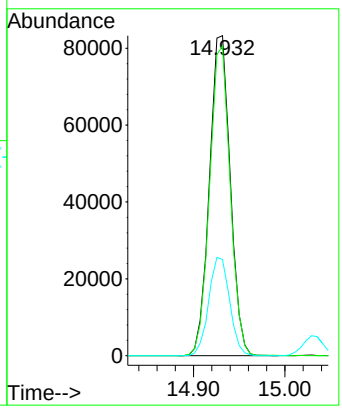


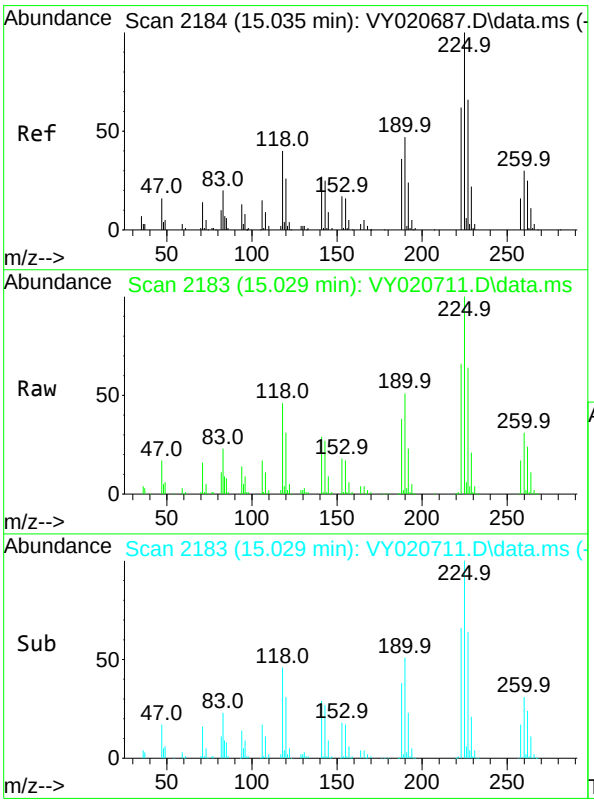

#93
1,2,4-Trichlorobenzene
Concen: 111.184 ug/l
RT: 14.932 min Scan# 21
Delta R.T. 0.001 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:180 Resp: 131697

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.9 | 143.7 |
| 145 | 30.8 | 15.6 | 46.8 |

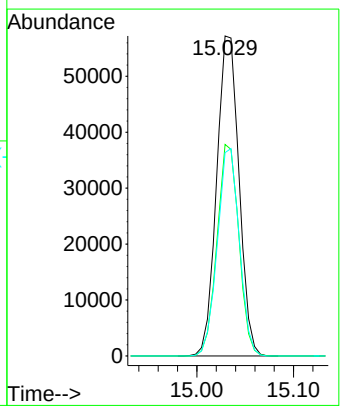


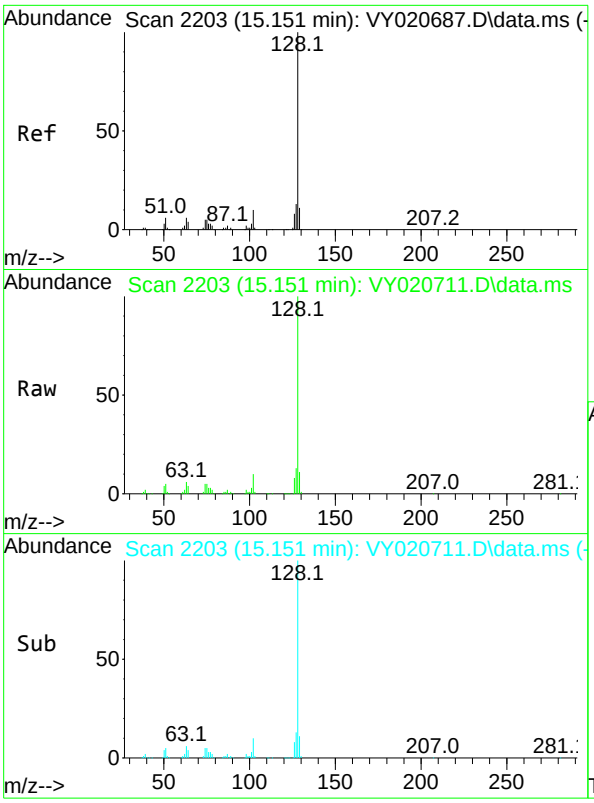




#94
Hexachlorobutadiene
Concen: 106.228 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:225 Resp: 91705

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 64.4 | 31.3 | 93.8 |
| 227 | 63.6 | 32.1 | 96.5 |



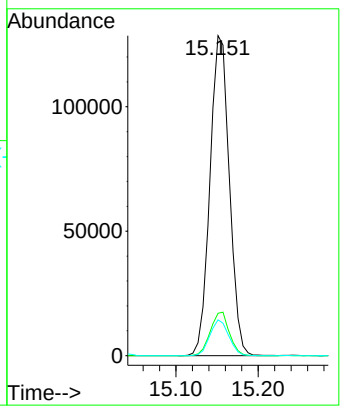


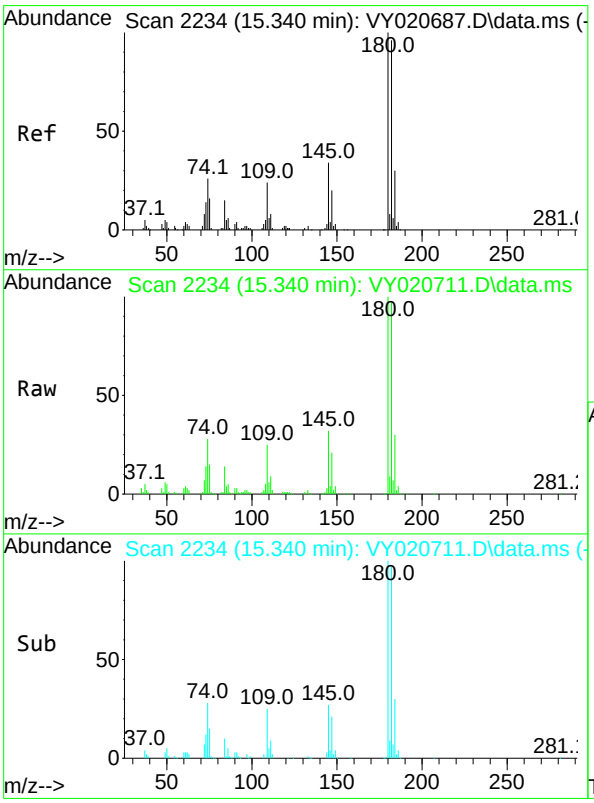

#95
Naphthalene
Concen: 111.196 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDICC100

Tgt Ion:128 Resp: 210953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.4 | 10.7 | 16.1 |
| 129 | 10.9 | 8.6 | 12.8 |

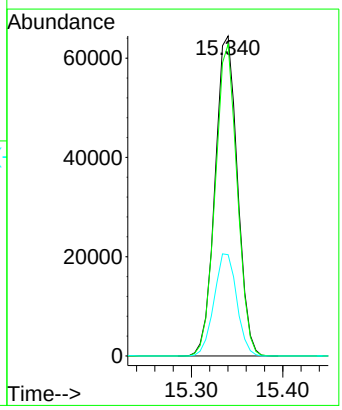



#96
1,2,3-Trichlorobenzene
Concen: 111.325 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020711.D
Acq: 26 Dec 2024 11:51

Tgt Ion:180 Resp: 109793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.9 | 47.4 | 142.2 |
| 145 | 32.3 | 16.7 | 50.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.719 | 168 | 116912 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 8.621 | 114 | 160856 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 11.426 | 117 | 136421 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.358 | 152 | 70383 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.073 | 65 | 50667 | 52.910 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 105.820% | | | |
| 35) Dibromofluoromethane | 7.646 | 113 | 46763 | 52.779 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 105.560% | | | |
| 50) Toluene-d8 | 10.115 | 98 | 184089 | 52.171 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.340% | | | |
| 62) 4-Bromofluorobenzene | 12.413 | 95 | 62660 | 53.215 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 106.440% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 43692 | 47.479 | ug/l | 98 |
| 3) Chloromethane | 2.080 | 50 | 18877 | 55.003 | ug/l | 99 |
| 4) Vinyl Chloride | 2.214 | 62 | 21107 | 49.638 | ug/l | 97 |
| 5) Bromomethane | 2.610 | 94 | 16385 | 51.036 | ug/l | 92 |
| 6) Chloroethane | 2.750 | 64 | 13110 | 51.394 | ug/l | 100 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 79960 | 48.899 | ug/l | 100 |
| 8) Diethyl Ether | 3.470 | 74 | 19539 | 50.215 | ug/l | 99 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 43422 | 48.370 | ug/l | 98 |
| 10) Methyl Iodide | 4.019 | 142 | 50185 | 51.123 | ug/l | 99 |
| 11) Tert butyl alcohol | 4.878 | 59 | 12665 | 208.224 | ug/l # | 85 |
| 12) 1,1-Dichloroethene | 3.805 | 96 | 39605 | 49.566 | ug/l | 99 |
| 13) Acrolein | 3.677 | 56 | 2881 | 143.918 | ug/l | 97 |
| 14) Allyl chloride | 4.403 | 41 | 47747 | 51.064 | ug/l | 96 |
| 15) Acrylonitrile | 5.073 | 53 | 34113 | 226.940 | ug/l | 99 |
| 16) Acetone | 3.878 | 43 | 25249 | 207.840 | ug/l | 99 |
| 17) Carbon Disulfide | 4.122 | 76 | 103010 | 52.554 | ug/l | 99 |
| 18) Methyl Acetate | 4.403 | 43 | 15970 | 48.572 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 5.134 | 73 | 106703 | 47.911 | ug/l | 100 |
| 20) Methylene Chloride | 4.628 | 84 | 39747 | 50.306 | ug/l | 90 |
| 21) trans-1,2-Dichloroethene | 5.134 | 96 | 43912 | 50.999 | ug/l | 98 |
| 22) Diisopropyl ether | 6.030 | 45 | 95914 | 50.460 | ug/l | 98 |
| 23) Vinyl Acetate | 5.976 | 43 | 275873 | 242.987 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 72030 | 50.544 | ug/l | 99 |
| 25) 2-Butanone | 6.908 | 43 | 36966 | 225.260 | ug/l | 97 |
| 26) 2,2-Dichloropropane | 6.902 | 77 | 82553 | 47.328 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 6.908 | 96 | 51212 | 49.666 | ug/l | 98 |
| 28) Bromochloromethane | 7.262 | 49 | 20413 | 54.165 | ug/l | 90 |
| 29) Tetrahydrofuran | 7.280 | 42 | 22616 | 224.521 | ug/l | 95 |
| 30) Chloroform | 7.433 | 83 | 88644 | 48.353 | ug/l | 95 |
| 31) Cyclohexane | 7.713 | 56 | 55329 | 44.979 | ug/l | 94 |
| 32) 1,1,1-Trichloroethane | 7.634 | 97 | 95277 | 48.484 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 57746 | 49.340 | ug/l | 99 |
| 37) Ethyl Acetate | 7.000 | 43 | 18046 | 46.791 | ug/l | 97 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 94603 | 49.087 | ug/l | 98 |
| 39) Methylcyclohexane | 9.121 | 83 | 76295 | 50.860 | ug/l | 95 |
| 40) Benzene | 8.091 | 78 | 173716 | 51.214 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.237 | 41 | 9136 | 46.896 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.170 | 62 | 52925 | 48.661 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 38101 | 46.479 | ug/l | | 97 |
| 44) Trichloroethene | 8.877 | 130 | 50355 | 49.703 | ug/l | | 92 |
| 45) 1,2-Dichloropropane | 9.152 | 63 | 34051 | 49.593 | ug/l | | 99 |
| 46) Dibromomethane | 9.237 | 93 | 22170 | 46.666 | ug/l | | 97 |
| 47) Bromodichloromethane | 9.432 | 83 | 65991 | 48.995 | ug/l | | 94 |
| 48) Methyl methacrylate | 9.231 | 41 | 17544 | 45.829 | ug/l | | 99 |
| 49) 1,4-Dioxane | 9.237 | 88 | 4519 | 998.617 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 10.005 | 43 | 91062 | 230.147 | ug/l | | 99 |
| 52) Toluene | 10.182 | 92 | 119622 | 51.455 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 57734 | 48.805 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 9.865 | 75 | 64766 | 49.949 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 10.578 | 97 | 29233 | 48.206 | ug/l | | 99 |
| 56) Ethyl methacrylate | 10.444 | 69 | 37050 | 46.506 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 48458 | 49.234 | ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 67974 | 244.679 | ug/l | | 97 |
| 59) 2-Hexanone | 10.767 | 43 | 59853 | 229.110 | ug/l | | 97 |
| 60) Dibromochloromethane | 10.920 | 129 | 47597 | 48.574 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 11.023 | 107 | 27610 | 48.387 | ug/l | | 100 |
| 64) Tetrachloroethene | 10.658 | 164 | 46724 | 50.131 | ug/l | | 95 |
| 65) Chlorobenzene | 11.450 | 112 | 133203 | 49.866 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.523 | 131 | 52397 | 50.630 | ug/l | | 98 |
| 67) Ethyl Benzene | 11.529 | 91 | 238810 | 51.151 | ug/l | | 98 |
| 68) m/p-Xylenes | 11.639 | 106 | 183706 | 103.152 | ug/l | | 98 |
| 69) o-Xylene | 11.962 | 106 | 86833 | 51.032 | ug/l | | 99 |
| 70) Styrene | 11.981 | 104 | 144868 | 50.717 | ug/l | | 99 |
| 71) Bromoform | 12.139 | 173 | 28995 | 48.733 | ug/l | # | 98 |
| 73) Isopropylbenzene | 12.261 | 105 | 242449 | 49.720 | ug/l | | 99 |
| 74) N-amyl acetate | 12.078 | 43 | 33272 | 48.015 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 29166 | 46.657 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 42892 | 95.817 | ug/l | # | 100 |
| 77) Bromobenzene | 12.541 | 156 | 56640 | 50.459 | ug/l | | 96 |
| 78) n-propylbenzene | 12.602 | 91 | 273917 | 50.119 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 154710 | 49.656 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 205116 | 50.488 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 11017 | 48.646 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 12.785 | 91 | 161536 | 50.168 | ug/l | | 99 |
| 83) tert-Butylbenzene | 13.005 | 119 | 188052 | 49.565 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 13.054 | 105 | 203012 | 51.350 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.188 | 105 | 258622 | 50.578 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.303 | 119 | 230385 | 50.557 | ug/l | | 100 |
| 87) 1,3-Dichlorobenzene | 13.297 | 146 | 108941 | 49.657 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.377 | 146 | 107603 | 49.305 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 194314 | 51.082 | ug/l | | 99 |
| 90) Hexachloroethane | 13.889 | 117 | 42996 | 49.619 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.669 | 146 | 95132 | 50.573 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.285 | 75 | 5601 | 46.197 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.931 | 180 | 62409 | 52.197 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 15.035 | 225 | 44277 | 50.811 | ug/l | | 98 |
| 95) Naphthalene | 15.157 | 128 | 94983 | 49.600 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 51411 | 51.643 | ug/l | | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

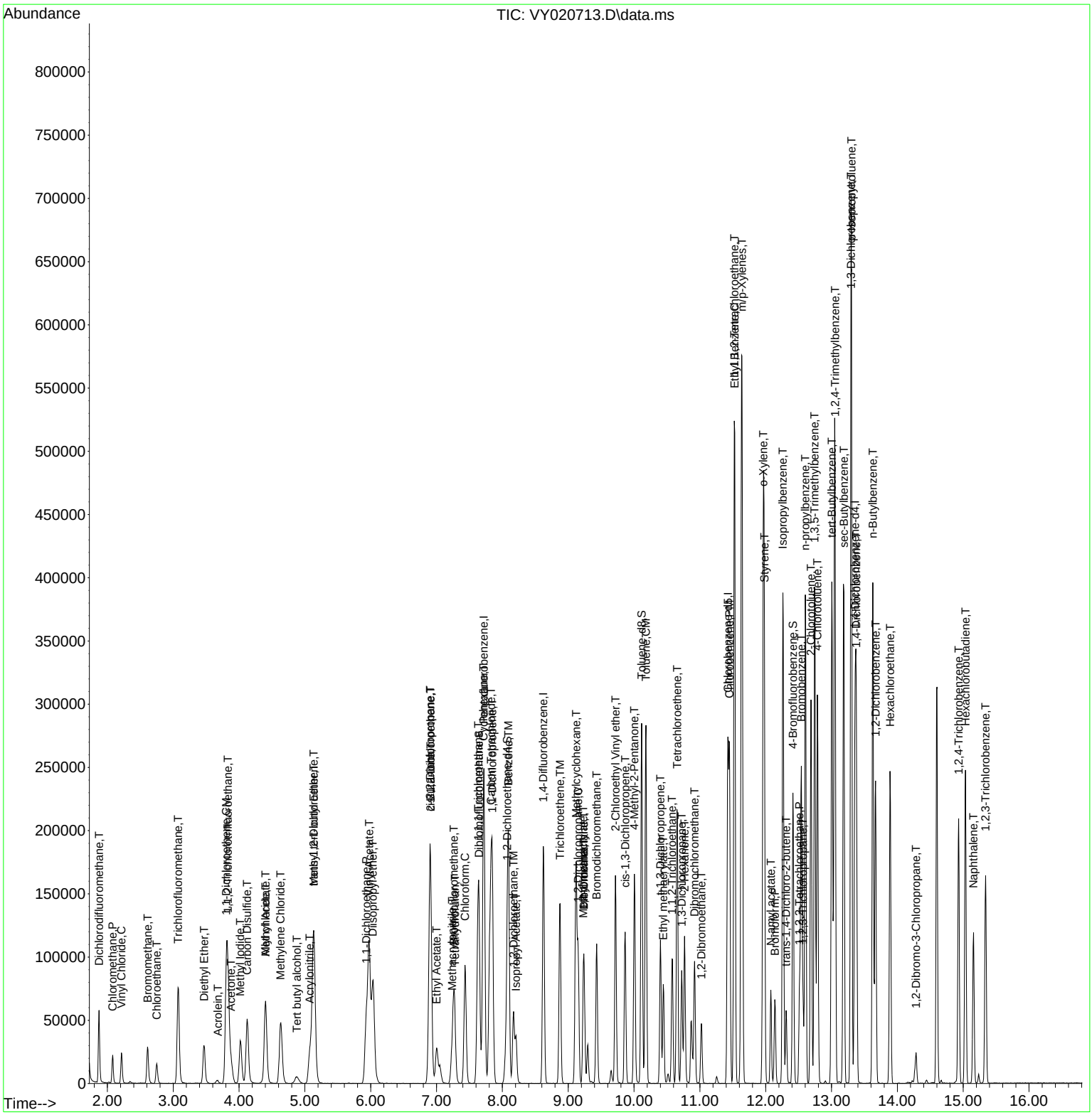
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

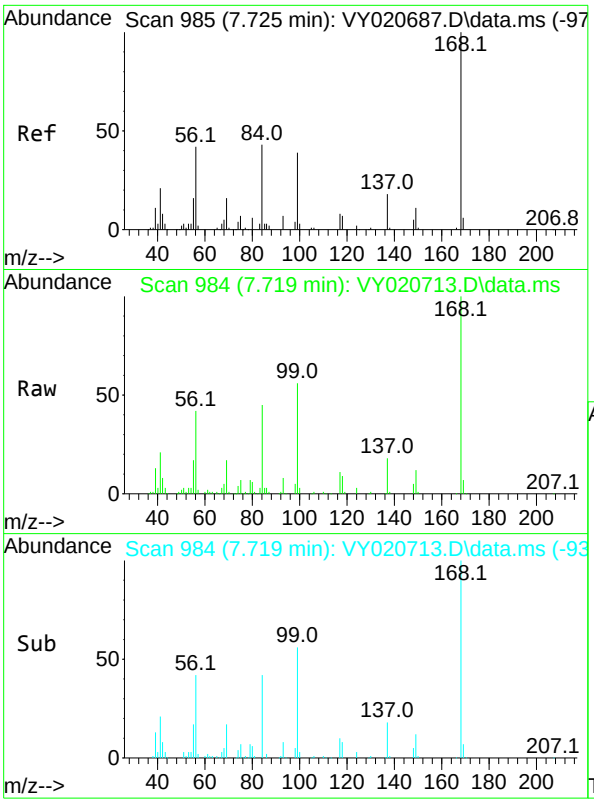
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020713.D
Acq On : 26 Dec 2024 12:51
Operator : SY/MD
Sample : VSTDICV050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Quant Time: Dec 26 16:15:08 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration



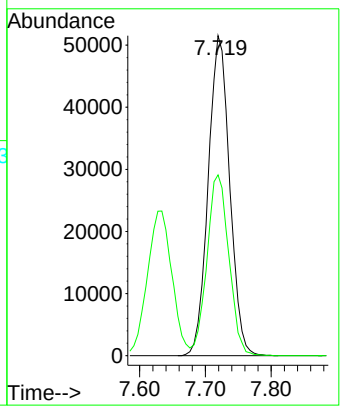


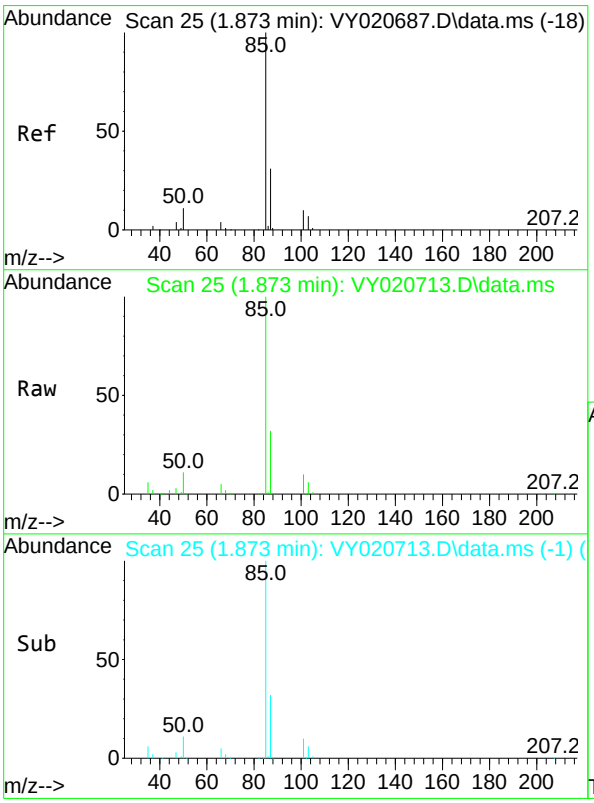

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.719 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:168 Resp: 116912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 56.5 | 43.8 | 65.6 |

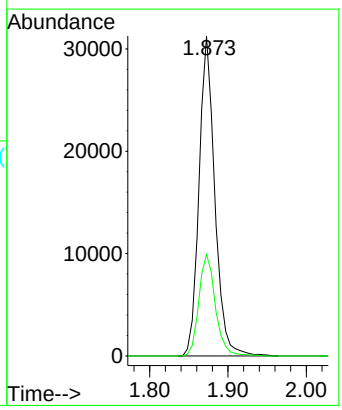


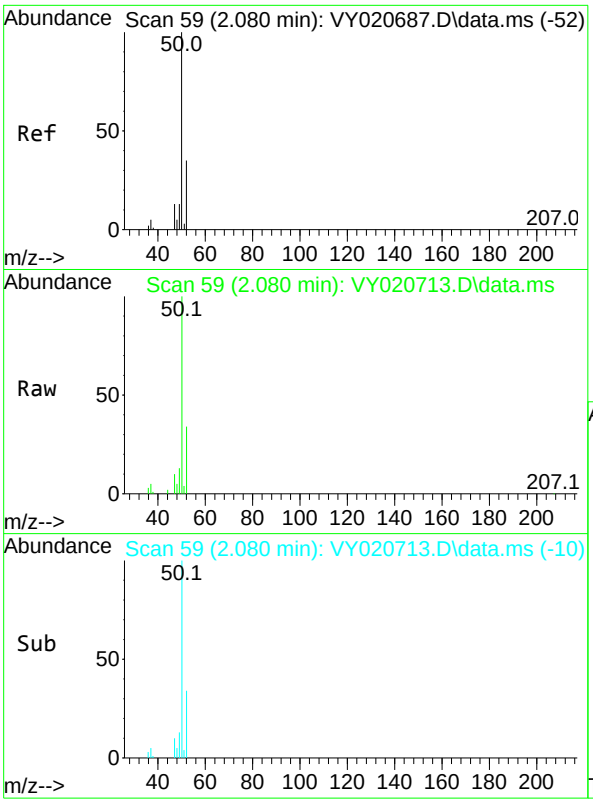




#2
Dichlorodifluoromethane
Concen: 47.479 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 85 Resp: 43692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 15.4 | 46.4 |



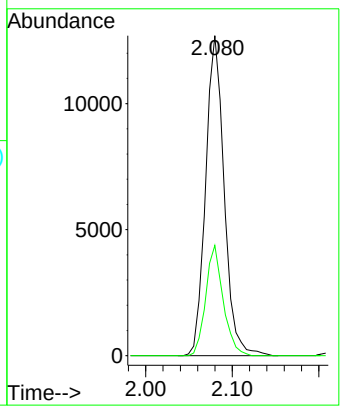


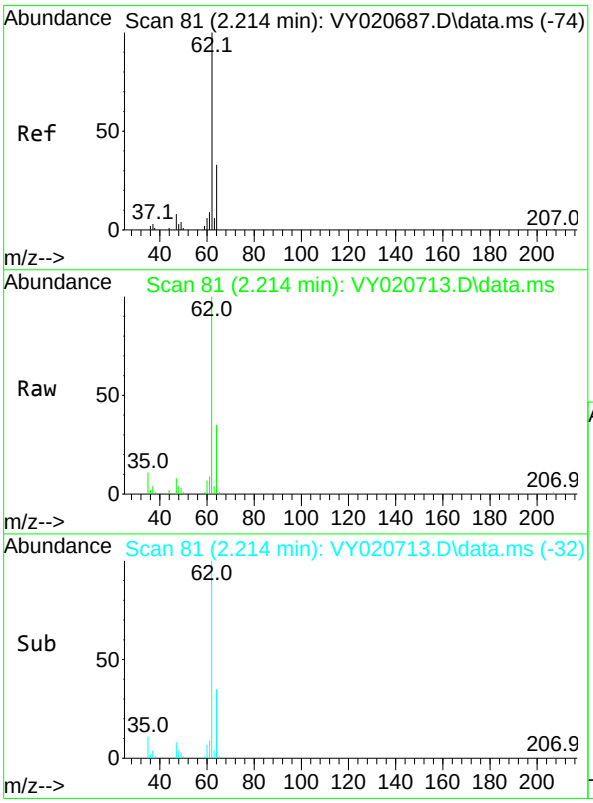

#3
Chloromethane
Concen: 55.003 ug/l
RT: 2.080 min Scan# 5
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 50 Resp: 18877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.4 | 28.2 | 42.2 |

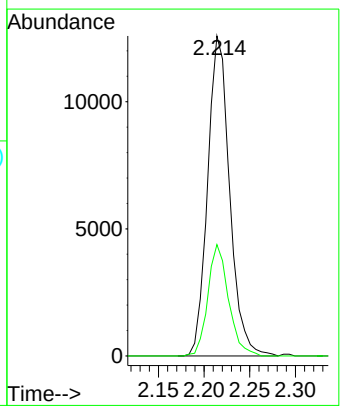


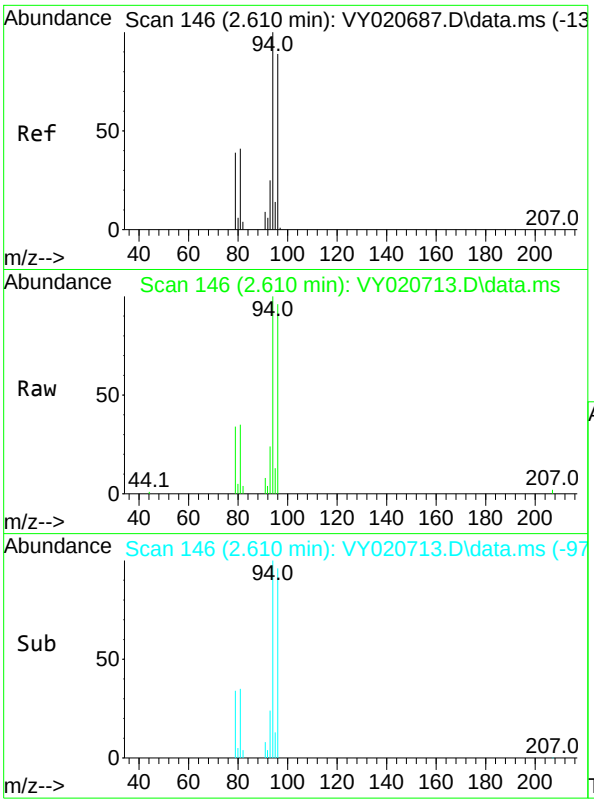




#4
Vinyl Chloride
Concen: 49.638 ug/l
RT: 2.214 min Scan# 81
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 62 Resp: 21107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.8 | 26.6 | 40.0 |



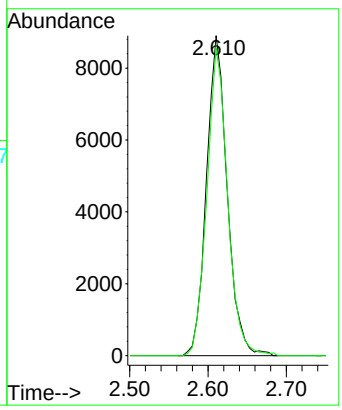


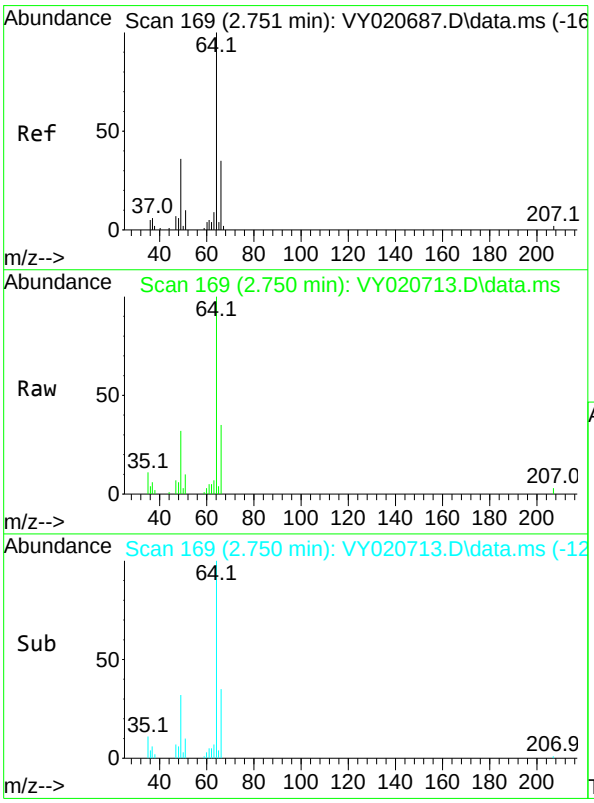

#5
Bromomethane
Concen: 51.036 ug/l
RT: 2.610 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 94 Resp: 16385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 96.2 | 71.0 | 106.6 |

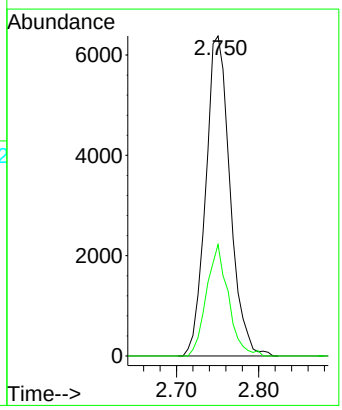


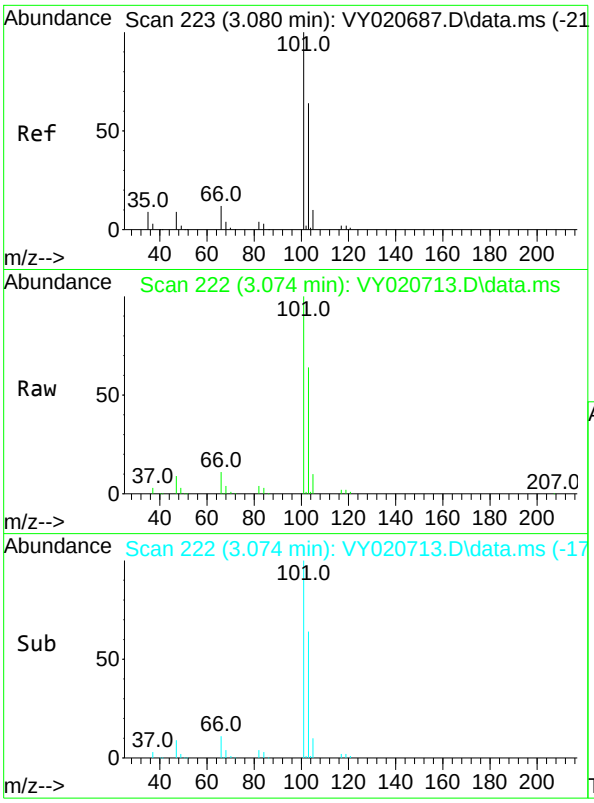




#6
Chloroethane
Concen: 51.394 ug/l
RT: 2.750 min Scan# 169
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 64 Resp: 13110

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.8 | 27.8 | 41.8 |



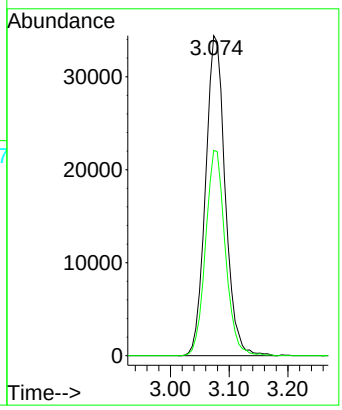


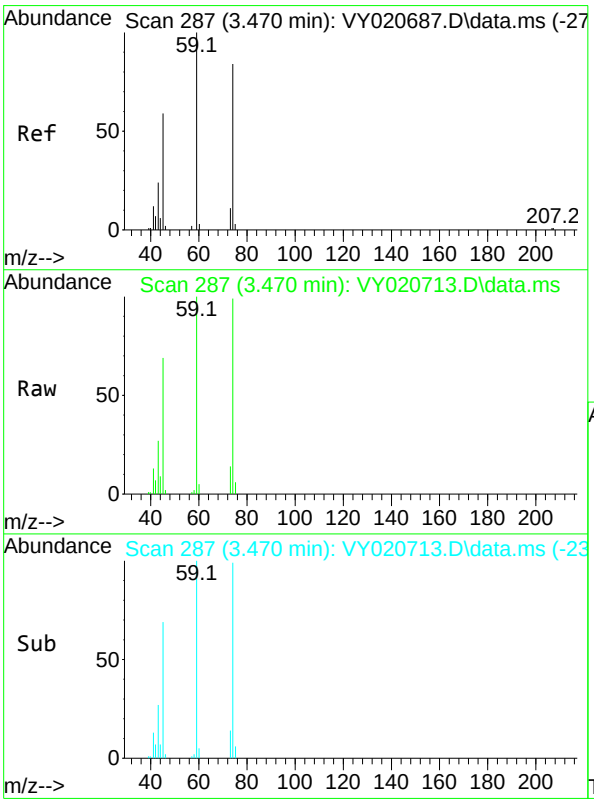

#7
Trichlorofluoromethane
Concen: 48.899 ug/l
RT: 3.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:101 Resp: 79960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.2 | 51.4 | 77.0 |

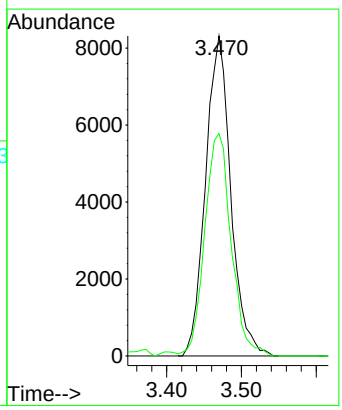


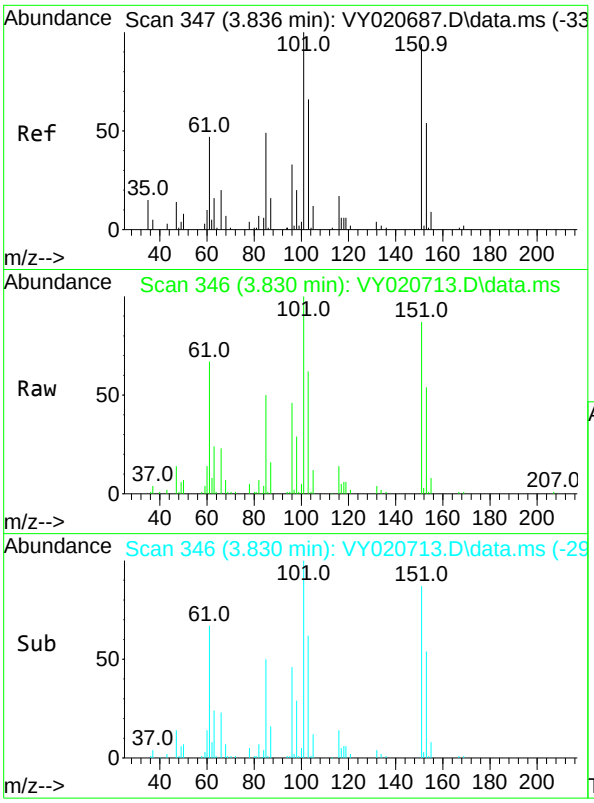




#8
Diethyl Ether
Concen: 50.215 ug/l
RT: 3.470 min Scan# 287
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 74 Resp: 19539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 72.6 | 35.8 | 107.4 |



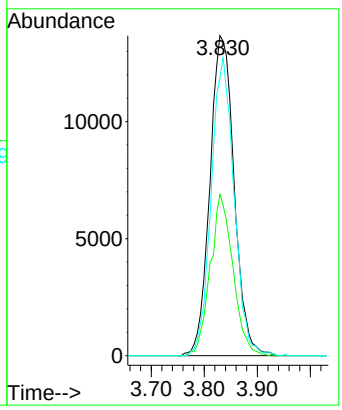


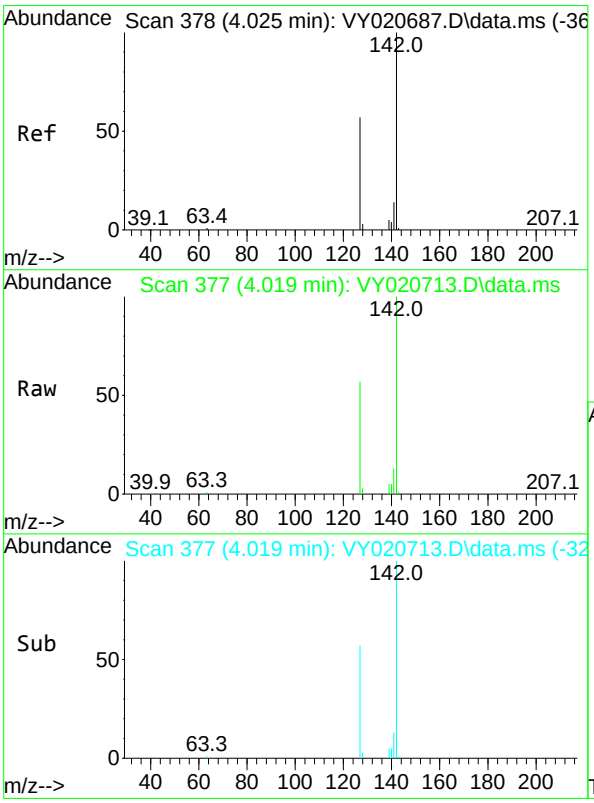

#9
1,1,2-Trichlorotrifluoroethane
Concen: 48.370 ug/l
RT: 3.830 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:101 Resp: 43422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.2 | 38.2 | 57.2 |
| 151 | 88.1 | 68.4 | 102.6 |

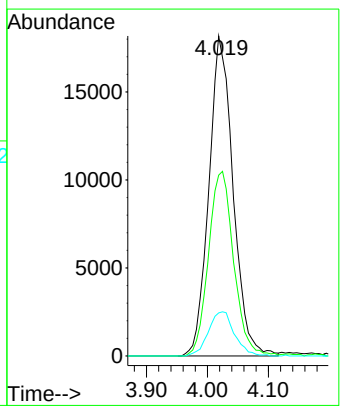


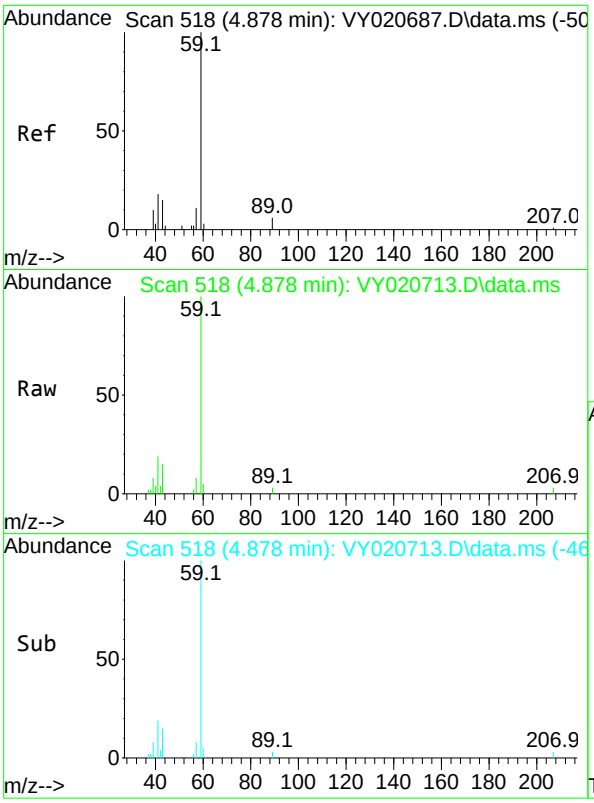




#10
Methyl Iodide
Concen: 51.123 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:142 Resp: 50185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 59.9 | 48.8 | 73.2 |
| 141 | 14.9 | 11.9 | 17.9 |



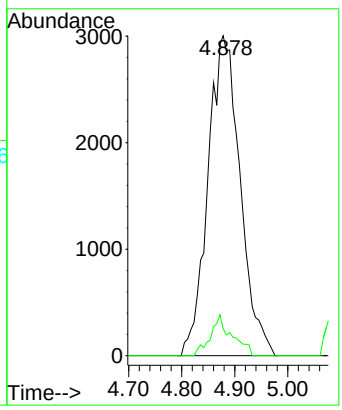


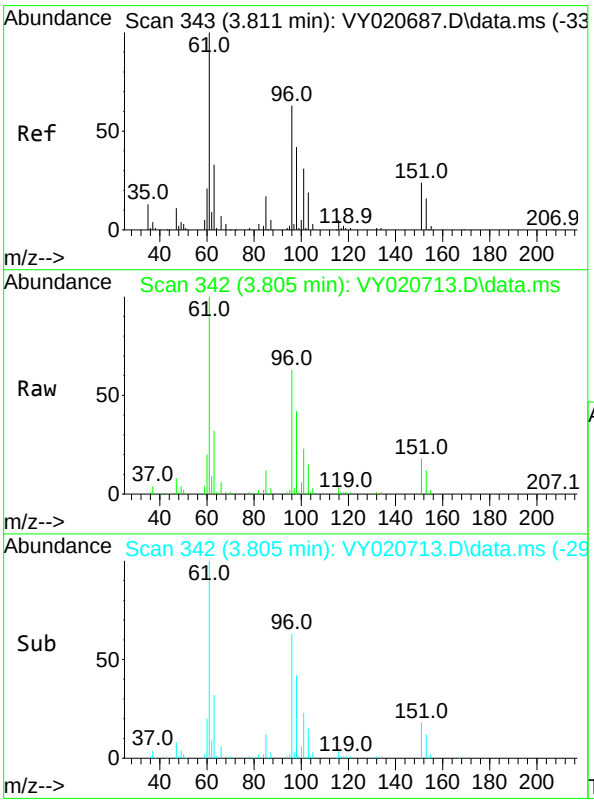

#11
Tert butyl alcohol
Concen: 208.224 ug/l
RT: 4.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 59 Resp: 12665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.5 | 2.8 | 4.2# |

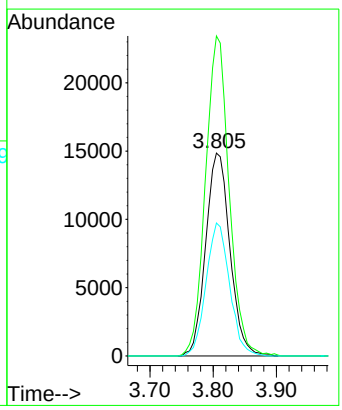


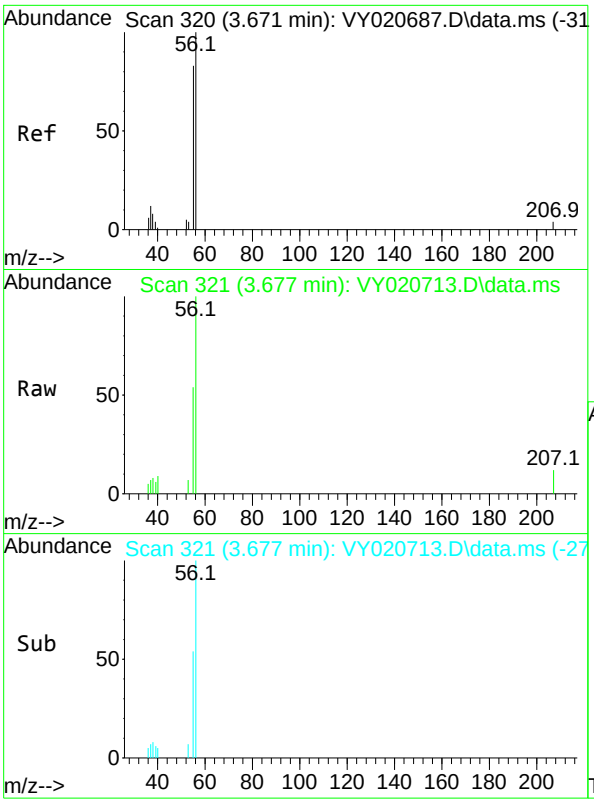




#12
1,1-Dichloroethene
Concen: 49.566 ug/l
RT: 3.805 min Scan# 342
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 96 Resp: 39605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 157.7 | 127.1 | 190.7 |
| 98 | 65.5 | 53.4 | 80.0 |



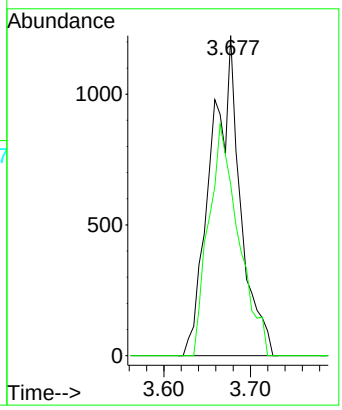


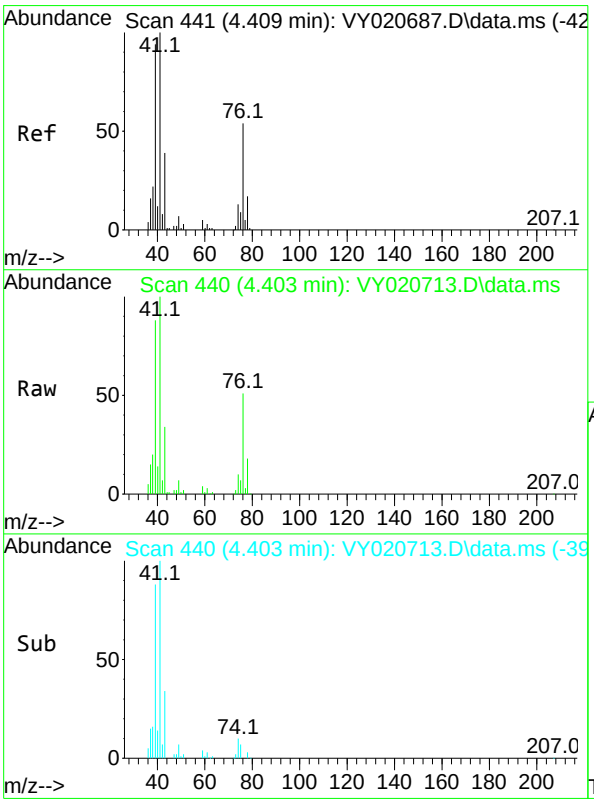

#13
Acrolein
Concen: 143.918 ug/l
RT: 3.677 min Scan# 3
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 56 Resp: 2881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 73.5 | 57.0 | 85.4 |

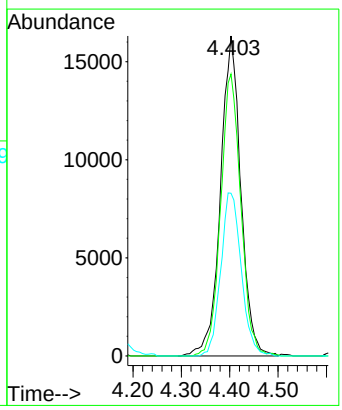


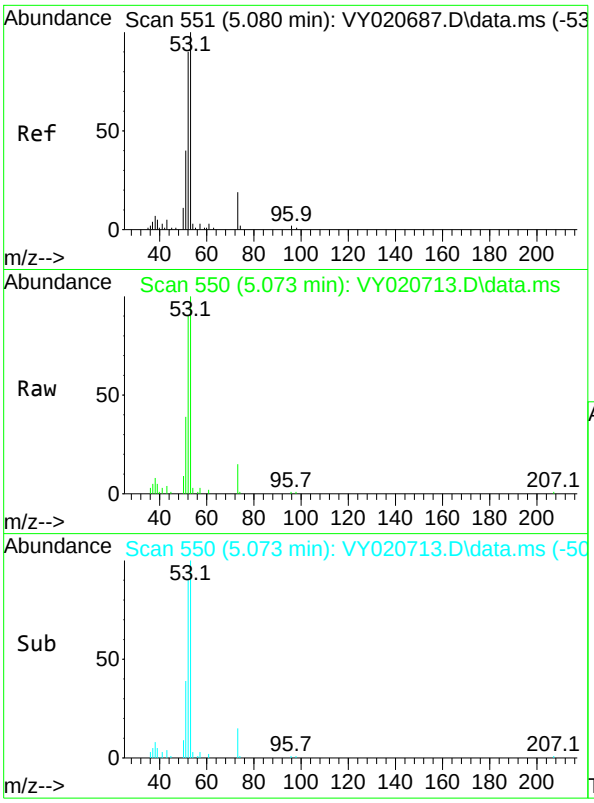




#14
Allyl chloride
Concen: 51.064 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 41 Resp: 47747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 87.2 | 73.5 | 110.3 |
| 76 | 51.3 | 41.8 | 62.8 |



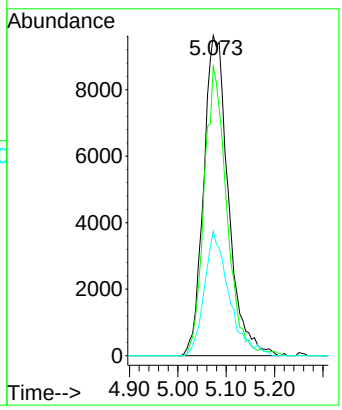


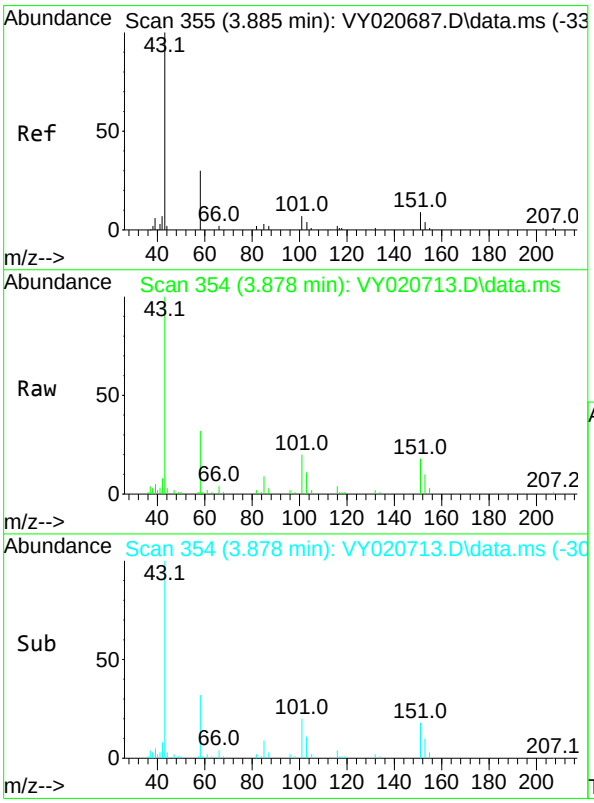

#15
Acrylonitrile
Concen: 226.940 ug/l
RT: 5.073 min Scan# 5
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 53 Resp: 34113

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.9 | 67.1 | 100.7 |
| 51 | 38.9 | 31.4 | 47.0 |

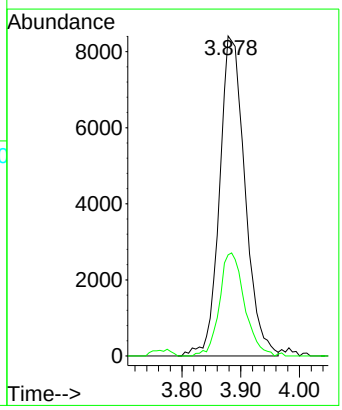


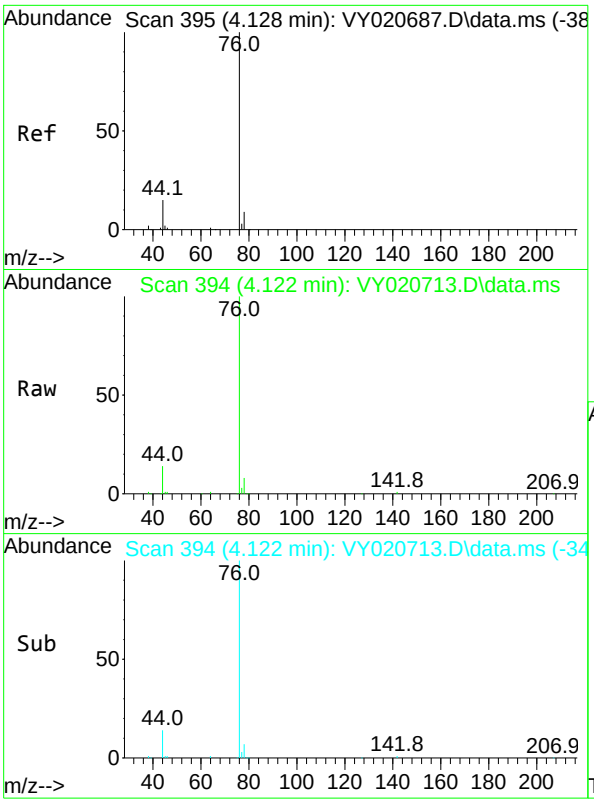




#16
Acetone
Concen: 207.840 ug/l
RT: 3.878 min Scan# 354
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 25249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.6 | 25.0 | 37.6 |



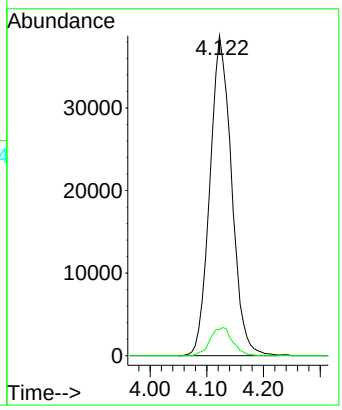


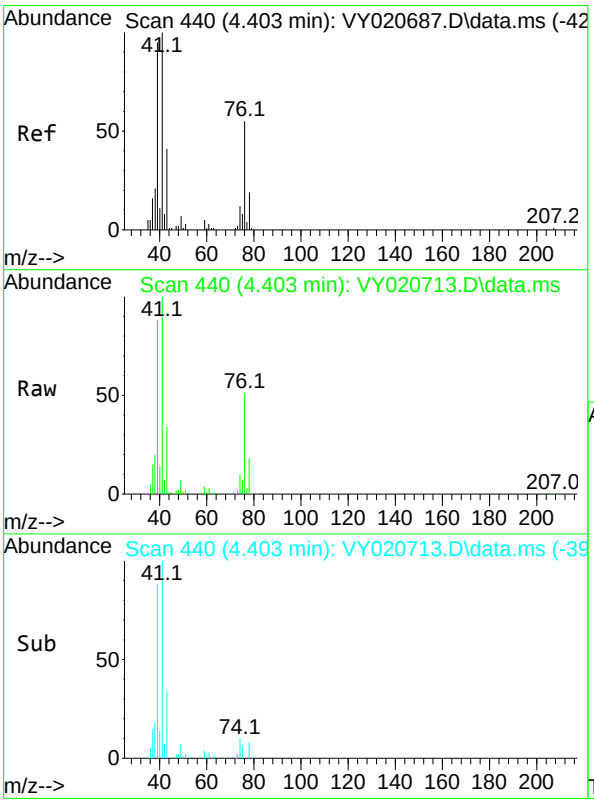

#17
Carbon Disulfide
Concen: 52.554 ug/l
RT: 4.122 min Scan# 3
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 76 Resp: 103010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.2 | 6.9 | 10.3 |

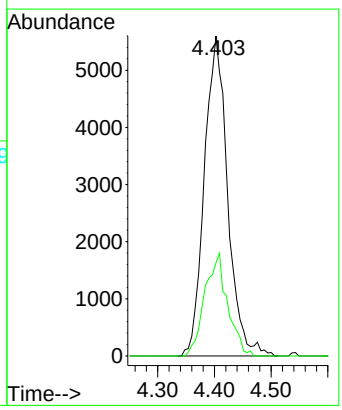


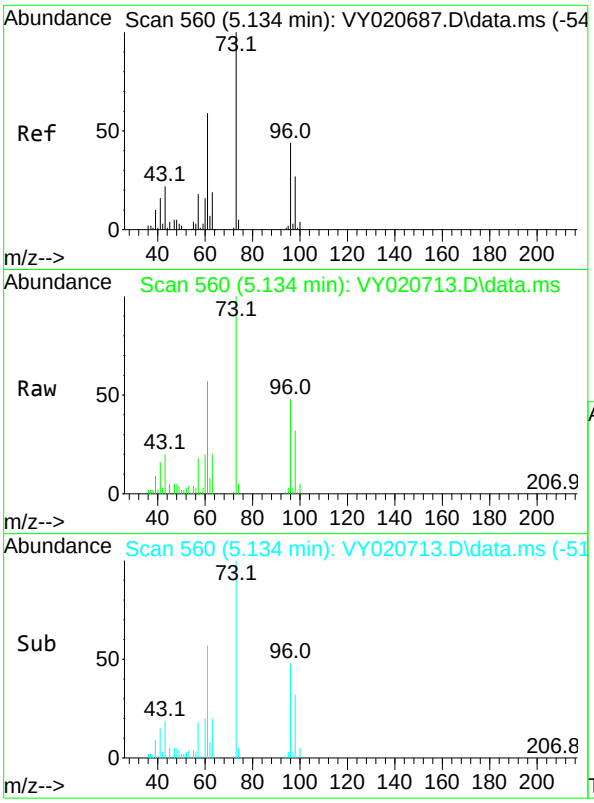




#18
Methyl Acetate
Concen: 48.572 ug/l
RT: 4.403 min Scan# 440
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 15970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 31.5 | 25.3 | 37.9 |



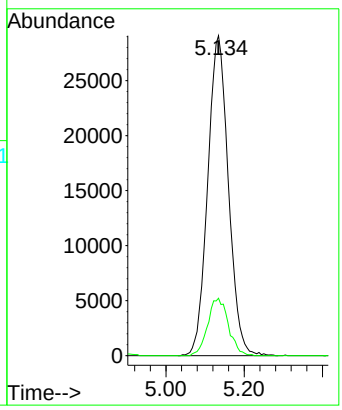


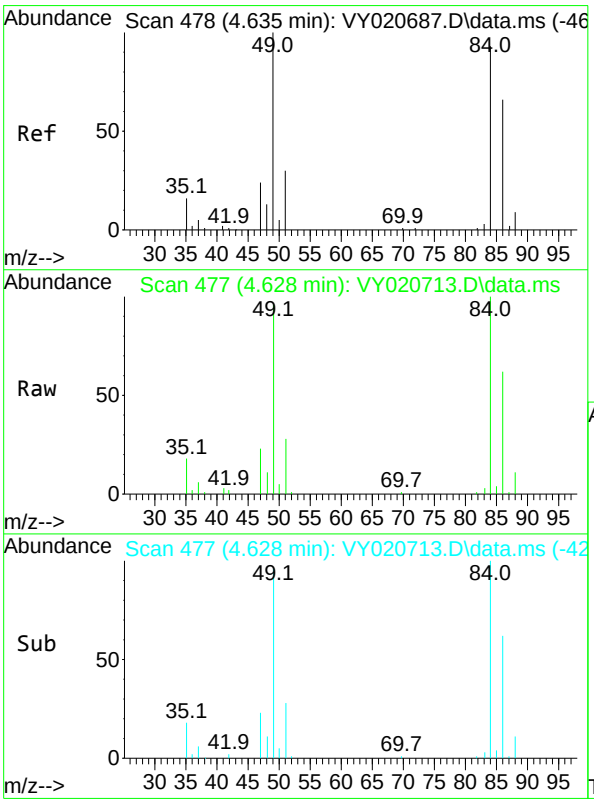

#19
Methyl tert-butyl Ether
Concen: 47.911 ug/l
RT: 5.134 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 73 Resp: 106703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 18.0 | 14.4 | 21.6 |

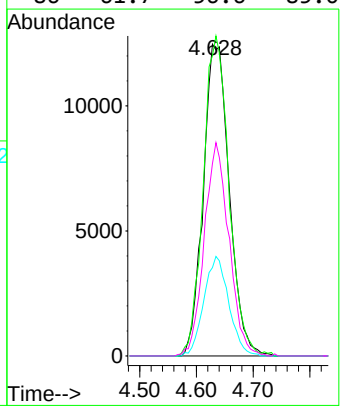


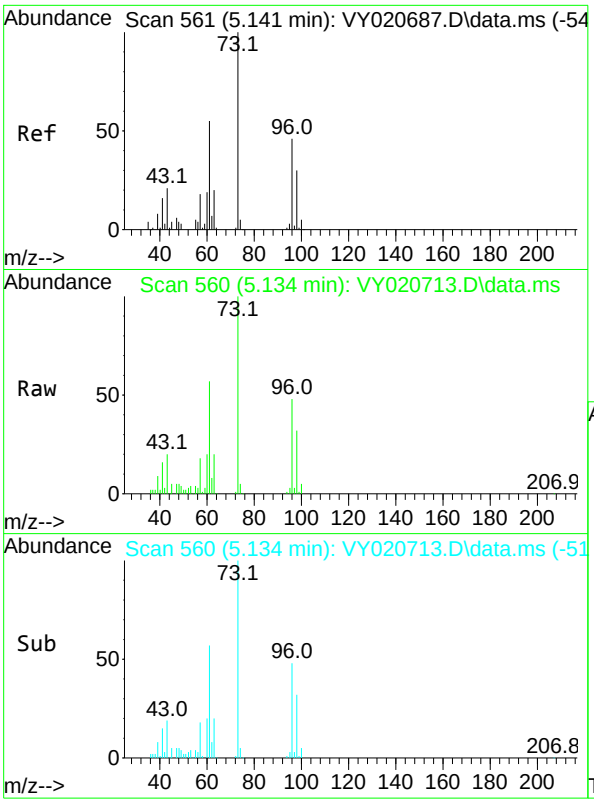




#20
Methylene Chloride
Concen: 50.306 ug/l
RT: 4.628 min Scan# 477
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 84 Resp: 39747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 96.3 | 86.4 | 129.6 |
| 51 | 28.3 | 25.5 | 38.3 |
| 86 | 61.7 | 56.6 | 85.0 |



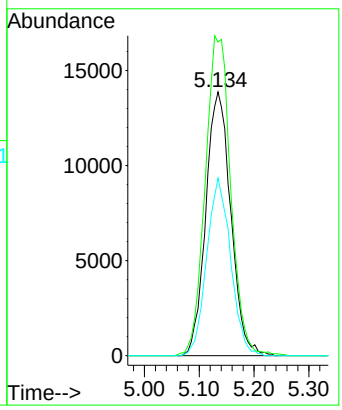


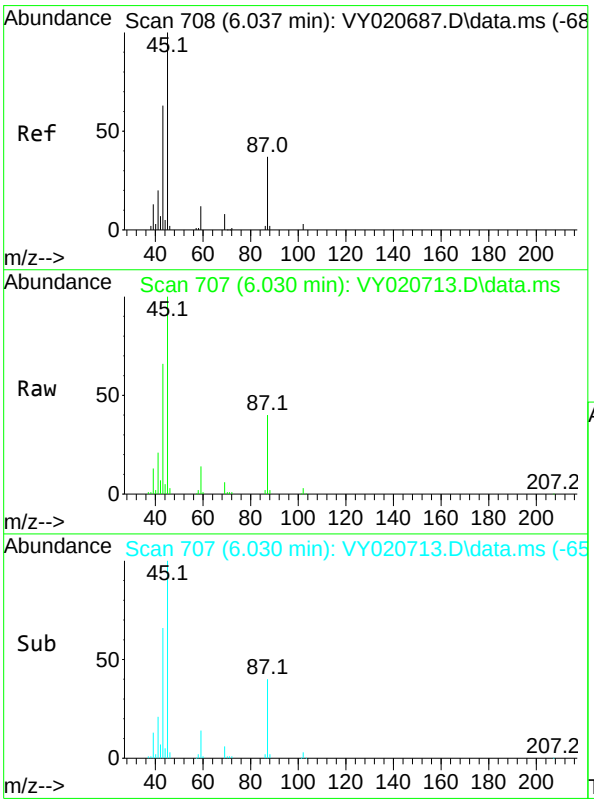

#21
trans-1,2-Dichloroethene
Concen: 50.999 ug/l
RT: 5.134 min Scan# 5
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 96 Resp: 43912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 118.5 | 96.1 | 144.1 |
| 98 | 67.4 | 52.7 | 79.1 |

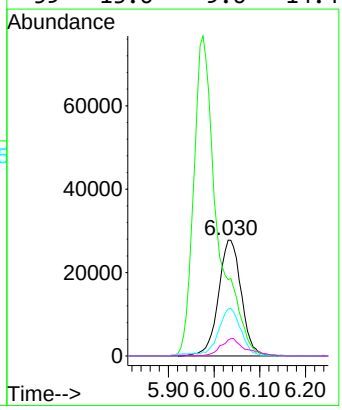


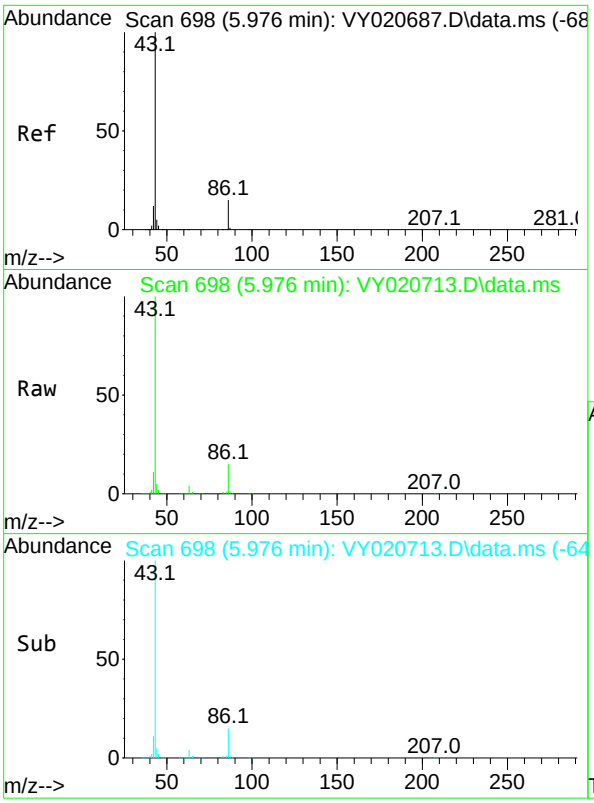




#22
Diisopropyl ether
Concen: 50.460 ug/l
RT: 6.030 min Scan# 707
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 45 Resp: 95914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 65.3 | 51.3 | 76.9 |
| 87 | 40.3 | 30.6 | 46.0 |
| 59 | 13.6 | 9.6 | 14.4 |



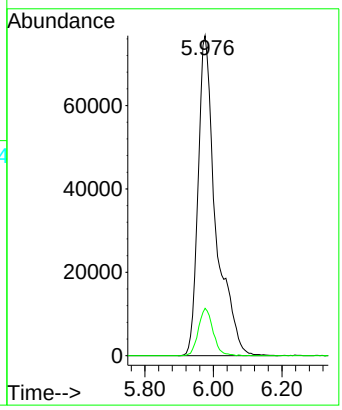


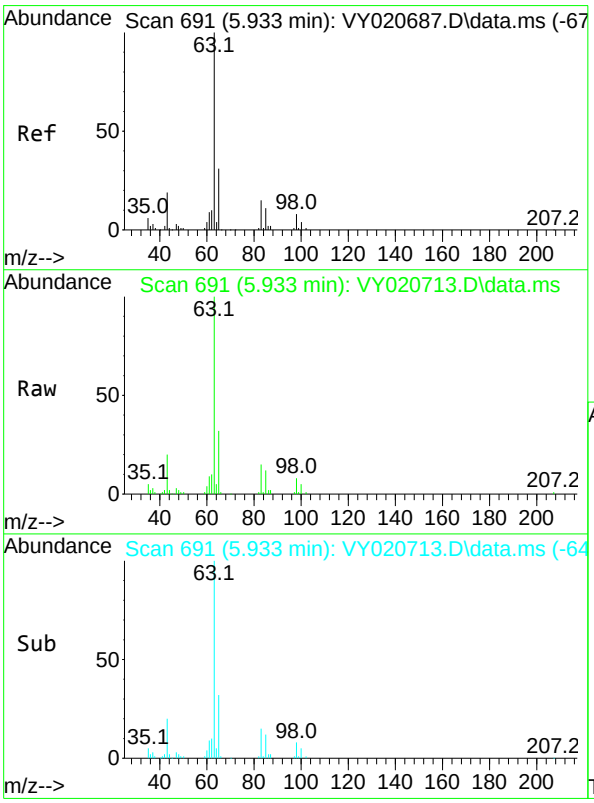

#23
Vinyl Acetate
Concen: 242.987 ug/l
RT: 5.976 min Scan# 6
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 43 Resp: 275873

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.8 | 12.0 | 18.0 |

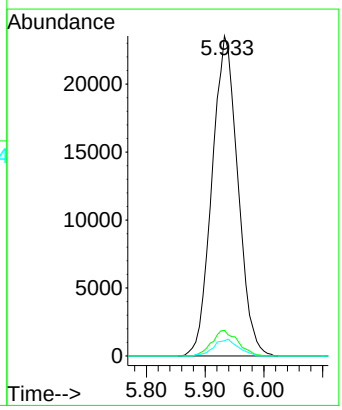


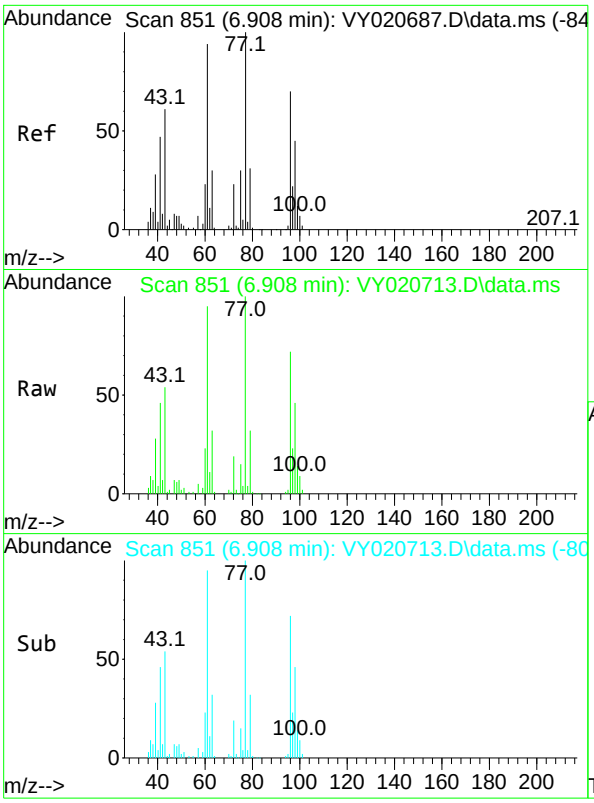




#24
1,1-Dichloroethane
Concen: 50.544 ug/l
RT: 5.933 min Scan# 691
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 63 Resp: 72030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.0 | 4.0 | 12.0 |
| 100 | 4.7 | 2.1 | 6.2 |



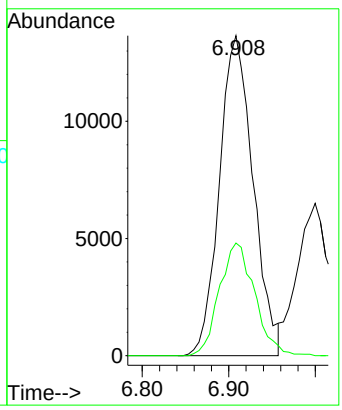


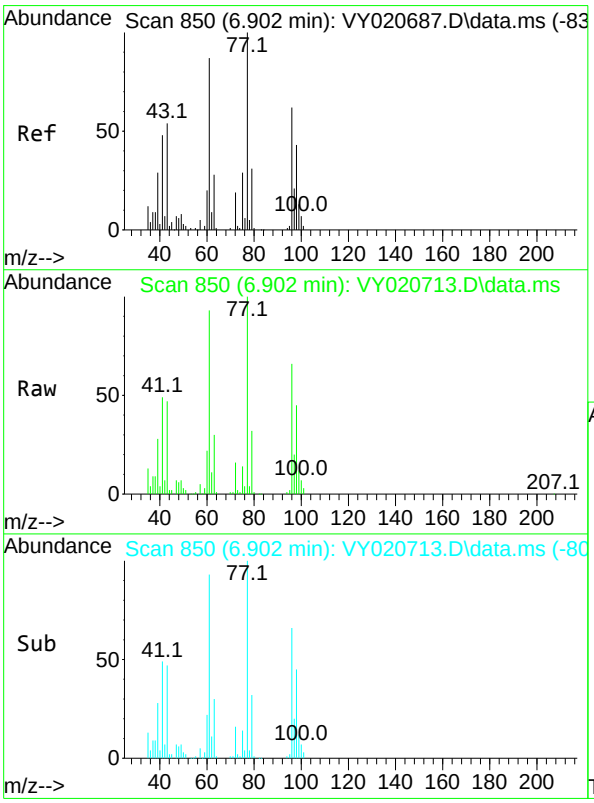

#25
2-Butanone
Concen: 225.260 ug/l
RT: 6.908 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 43 Resp: 36966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 35.2 | 29.5 | 44.3 |

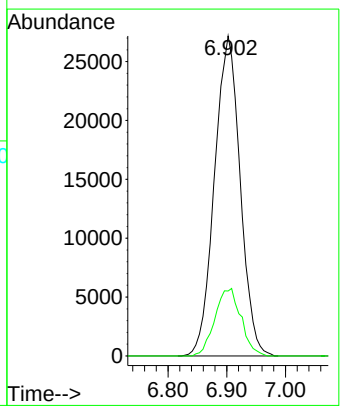


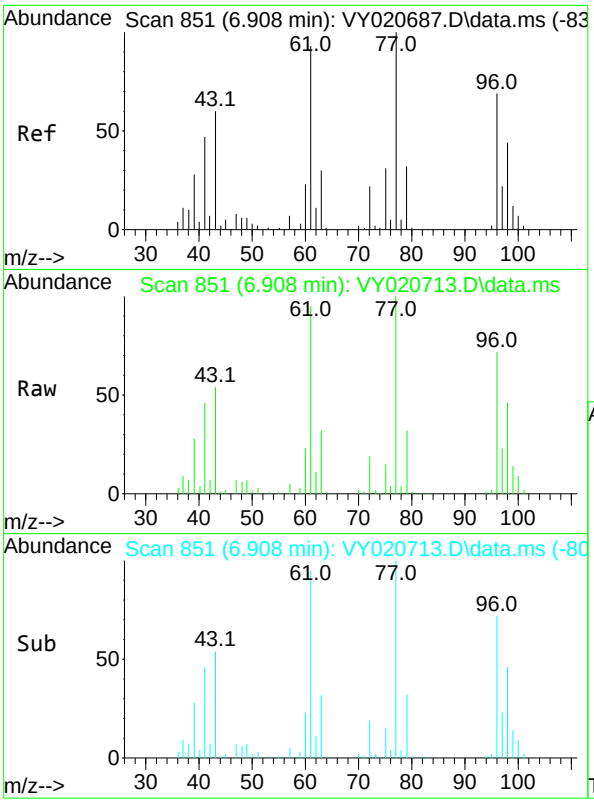




#26
2,2-Dichloropropane
Concen: 47.328 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 77 Resp: 82553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.4 | 10.8 | 32.4 |



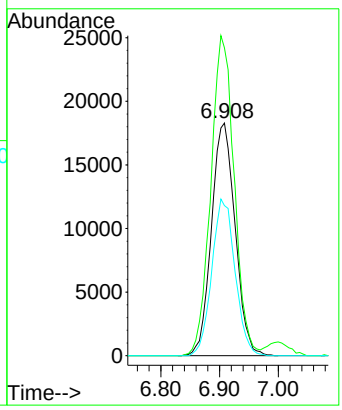


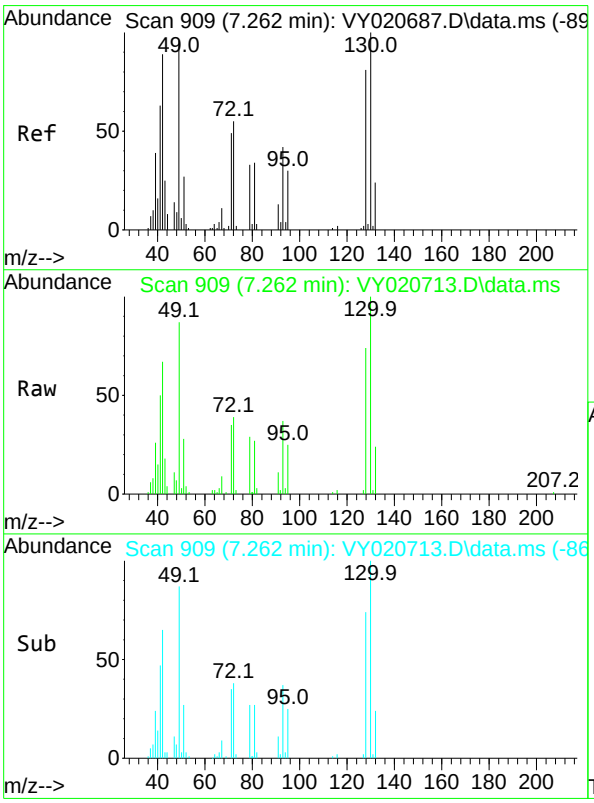

#27
cis-1,2-Dichloroethene
Concen: 49.666 ug/l
RT: 6.908 min Scan# 8
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 96 Resp: 51212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.9 | 0.0 | 277.2 |
| 98 | 66.0 | 0.0 | 131.0 |

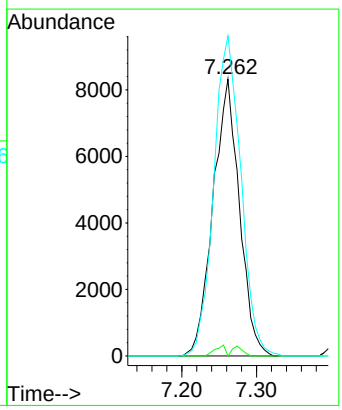


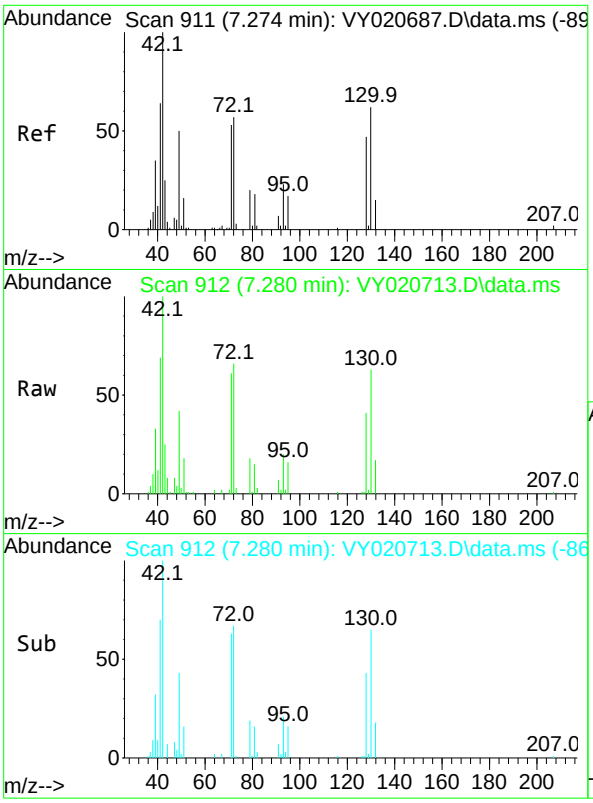




#28
Bromochloromethane
Concen: 54.165 ug/l
RT: 7.262 min Scan# 909
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 49 Resp: 20413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.5 | 0.0 | 5.4 |
| 130 | 119.2 | 87.2 | 130.8 |



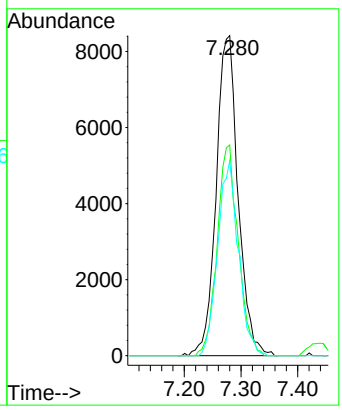


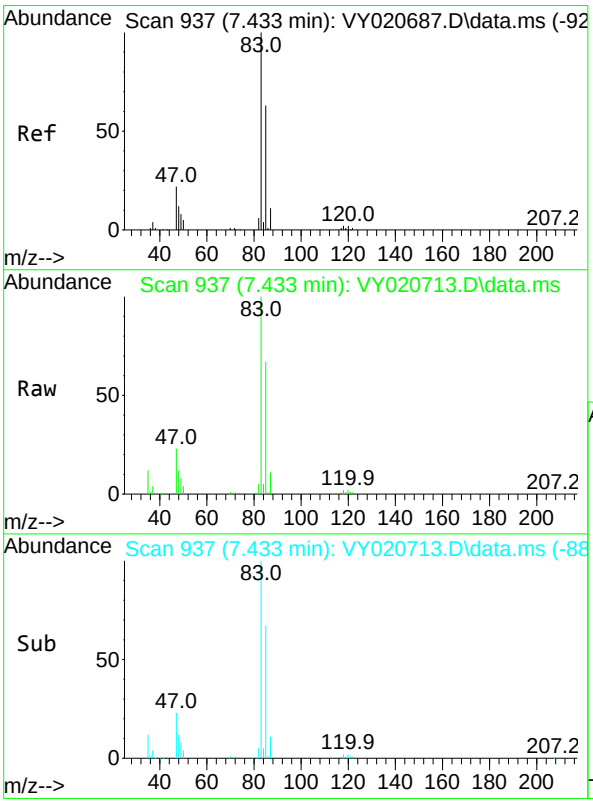

#29
Tetrahydrofuran
Concen: 224.521 ug/l
RT: 7.280 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 42 Resp: 22616

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 63.0 | 47.4 | 71.0 |
| 71 | 57.5 | 42.8 | 64.2 |

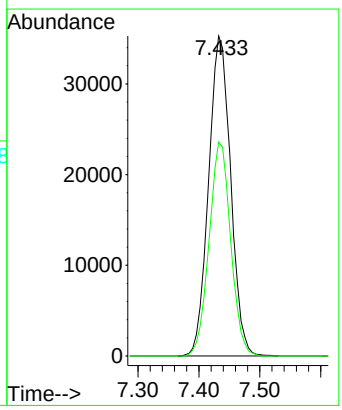


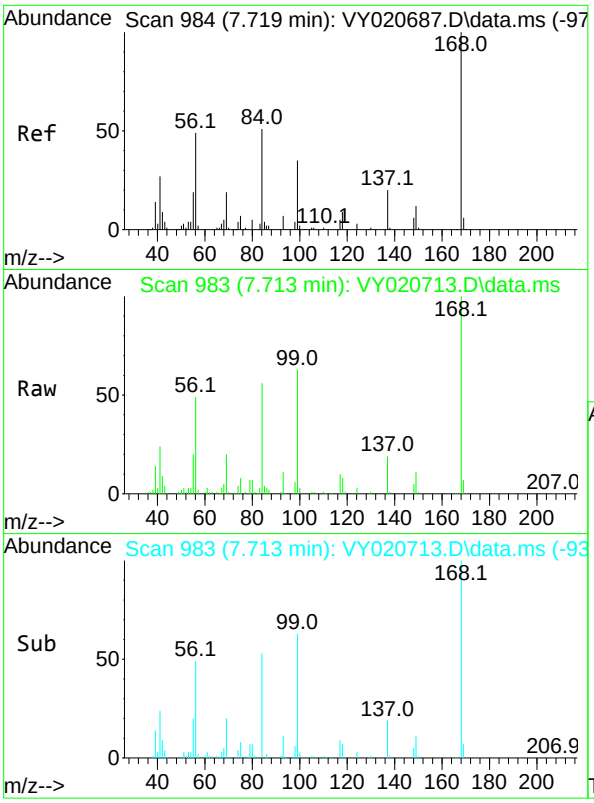




#30
Chloroform
Concen: 48.353 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 83 Resp: 88644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.9 | 50.2 | 75.2 |



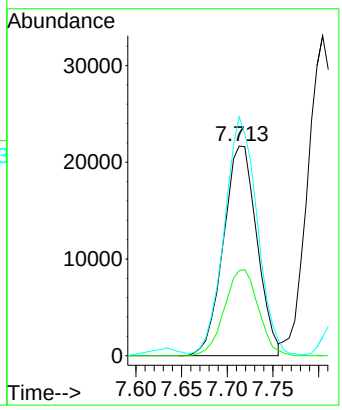


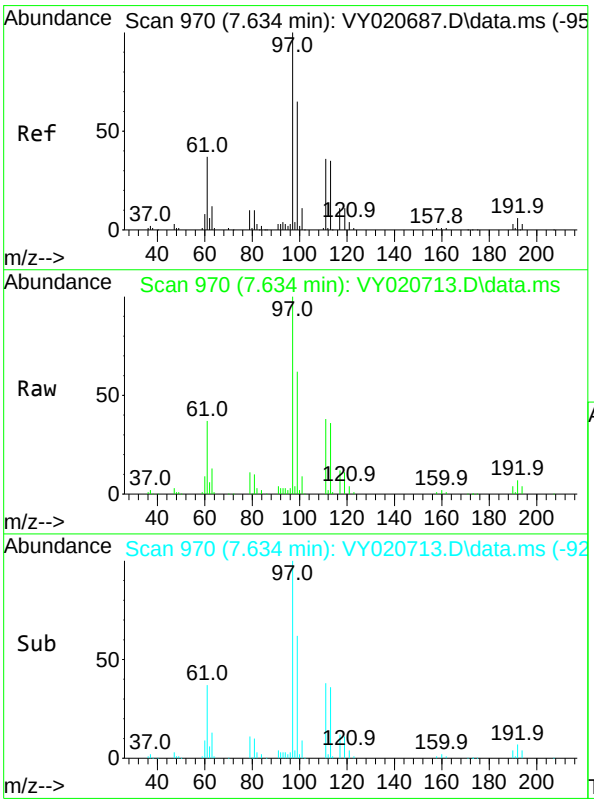

#31
Cyclohexane
Concen: 44.979 ug/l
RT: 7.713 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 56 Resp: 55329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 40.6 | 31.3 | 46.9 |
| 84 | 111.9 | 83.9 | 125.9 |

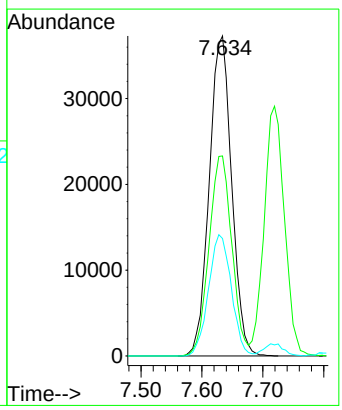


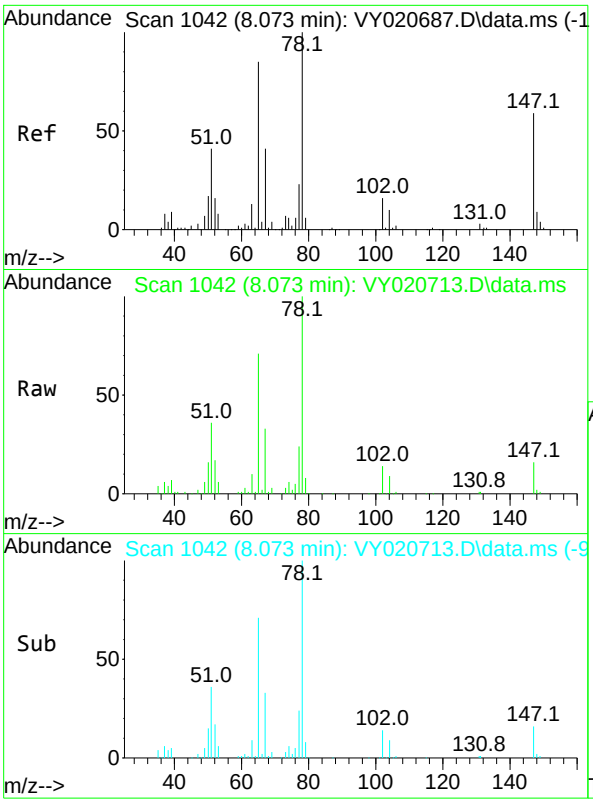




#32
1,1,1-Trichloroethane
Concen: 48.484 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 97 Resp: 95277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.0 | 76.6 |
| 61 | 38.6 | 30.0 | 45.0 |



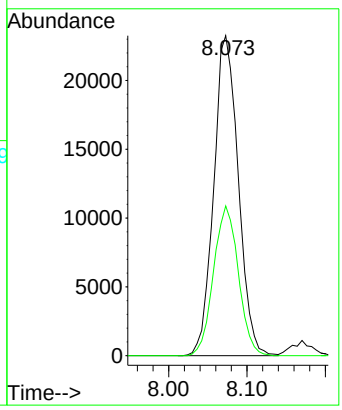


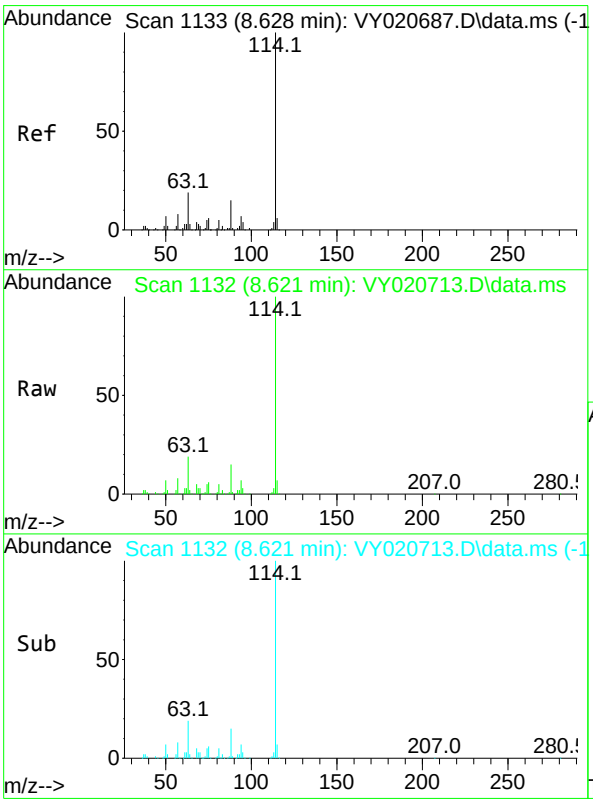

#33
1,2-Dichloroethane-d4
Concen: 52.910 ug/l
RT: 8.073 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 65 Resp: 50667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 47.3 | 0.0 | 98.0 |

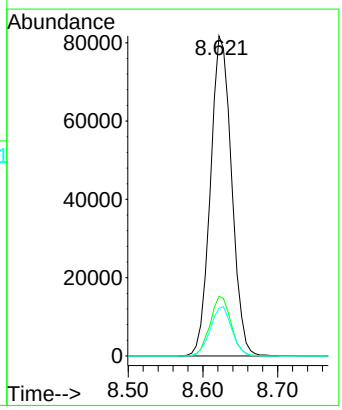


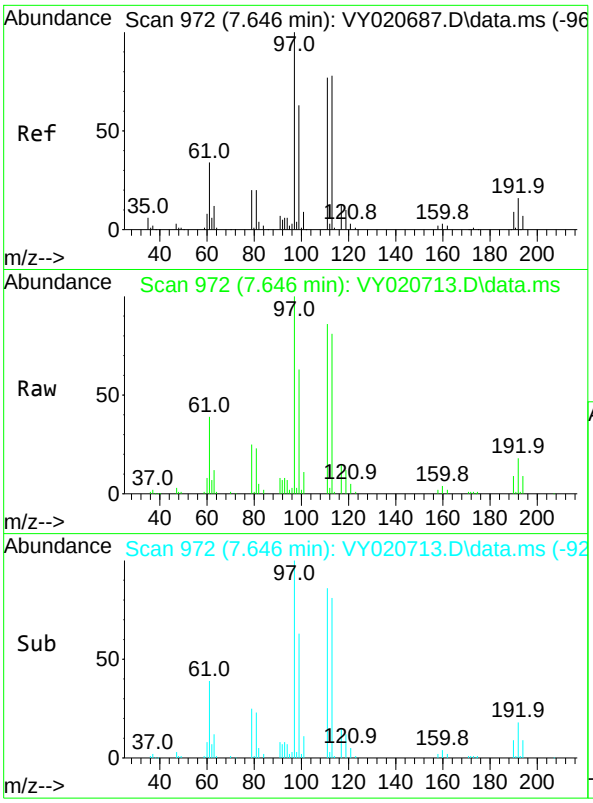




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.621 min Scan# 1132
Delta R.T. -0.007 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:114 Resp: 160856

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 15.0 | 0.0 | 30.4 |



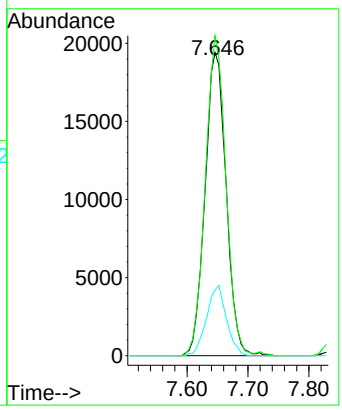


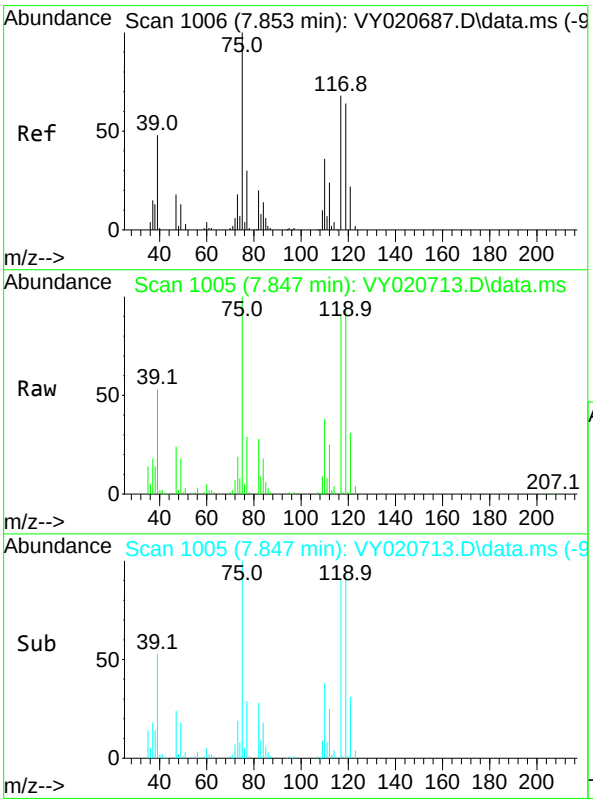

#35
Dibromofluoromethane
Concen: 52.779 ug/l
RT: 7.646 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:113 Resp: 46763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 79.8 | 119.8 |
| 192 | 21.9 | 17.0 | 25.6 |

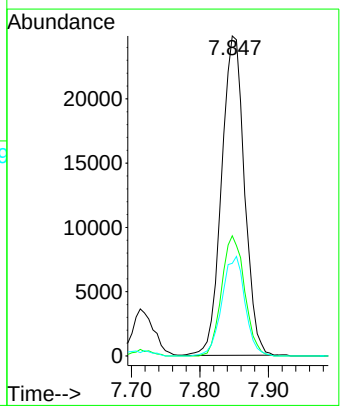


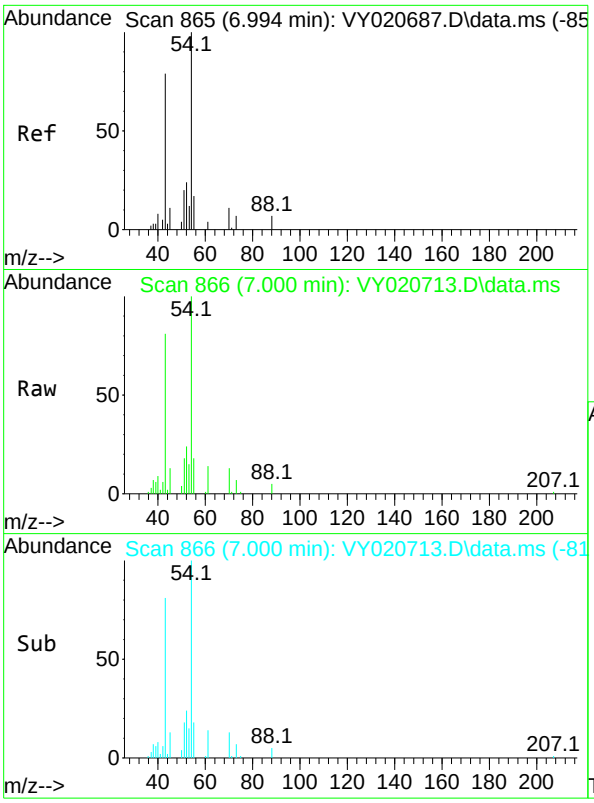




#36
1,1-Dichloropropene
Concen: 49.340 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 75 Resp: 57746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.7 | 19.6 | 58.7 |
| 77 | 31.4 | 25.1 | 37.7 |



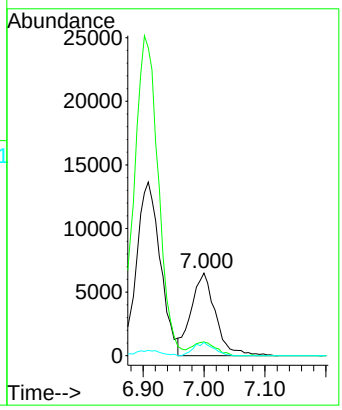


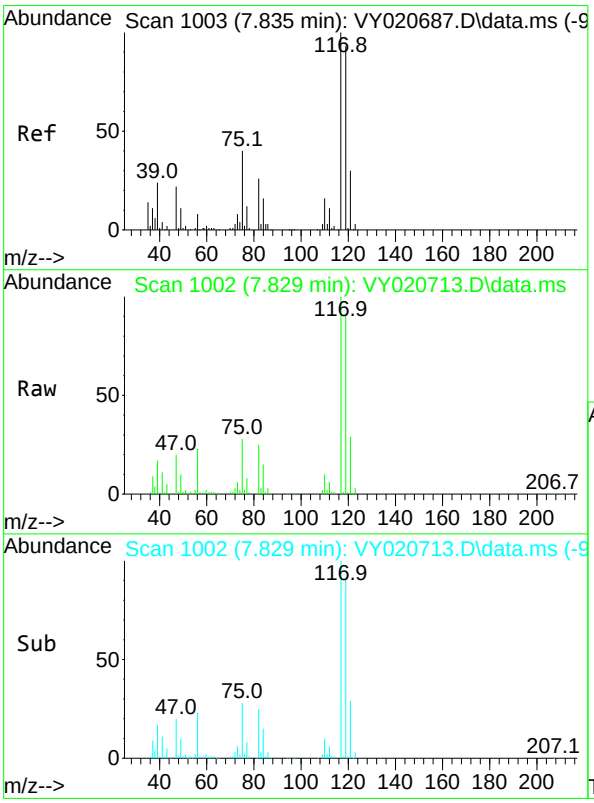

#37
Ethyl Acetate
Concen: 46.791 ug/l
RT: 7.000 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 43 Resp: 18046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.1 | 11.7 | 17.5 |
| 70 | 13.0 | 11.0 | 16.4 |

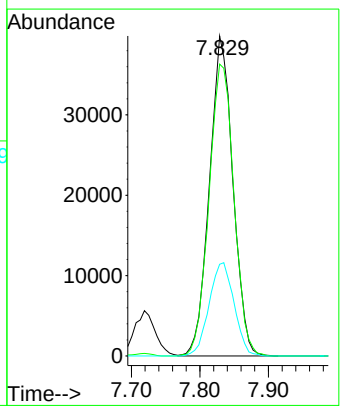


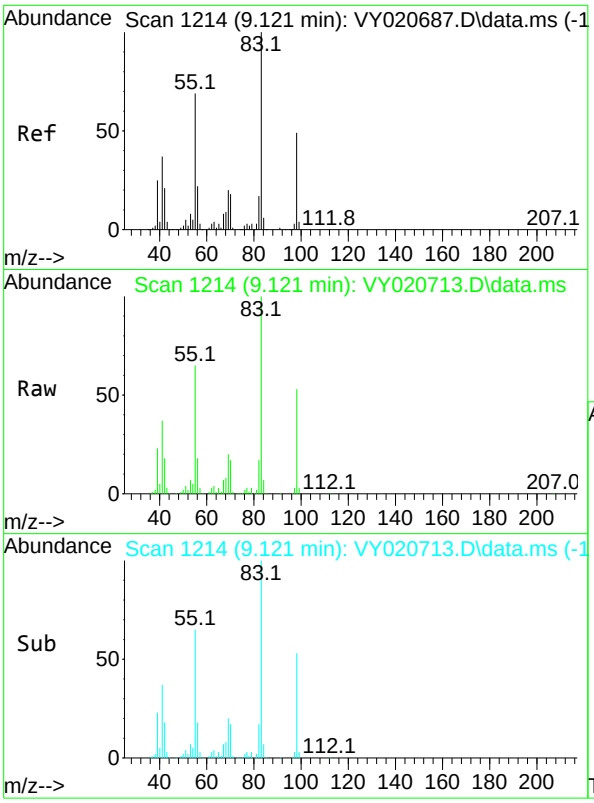




#38
Carbon Tetrachloride
Concen: 49.087 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:117 Resp: 94603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 91.2 | 74.4 | 111.6 |
| 121 | 28.6 | 24.2 | 36.2 |



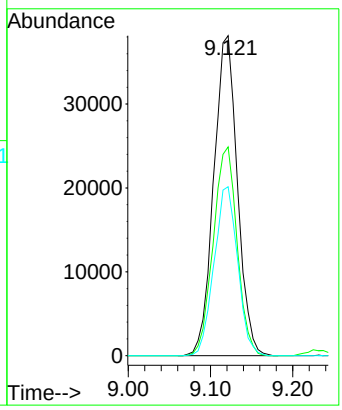


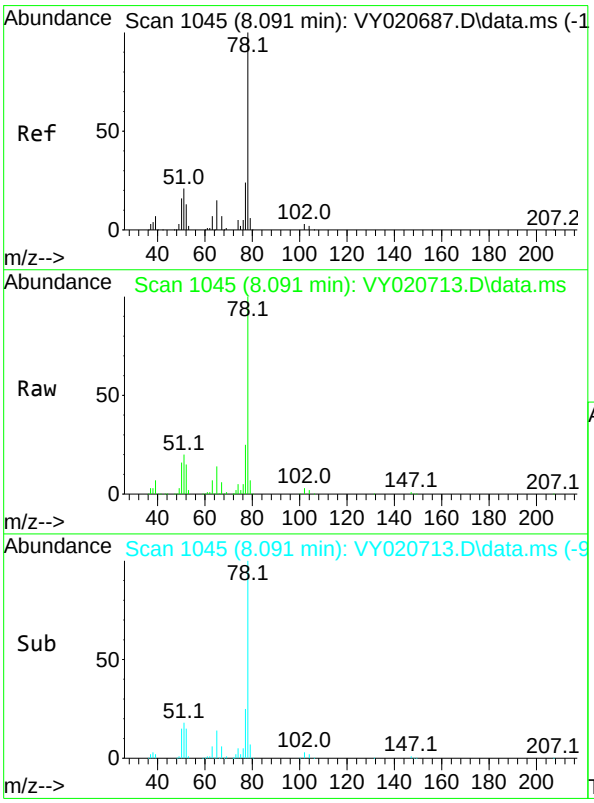

#39
Methylcyclohexane
Concen: 50.860 ug/l
RT: 9.121 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 83 Resp: 76295

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.3 | 55.0 | 82.4 |
| 98 | 52.8 | 39.0 | 58.6 |

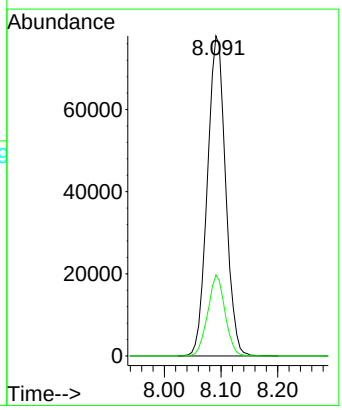


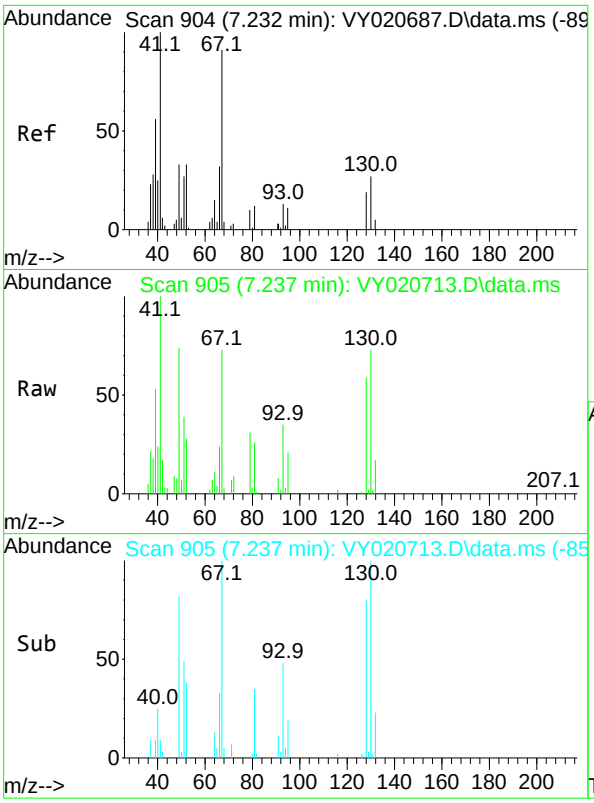




#40
Benzene
Concen: 51.214 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 78 Resp: 173716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.3 | 19.2 | 28.8 |



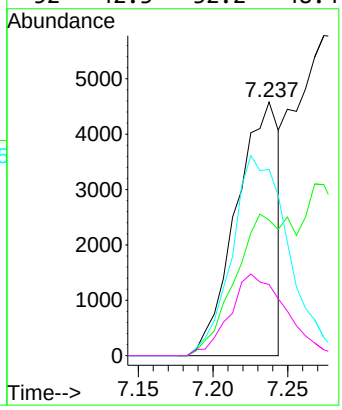


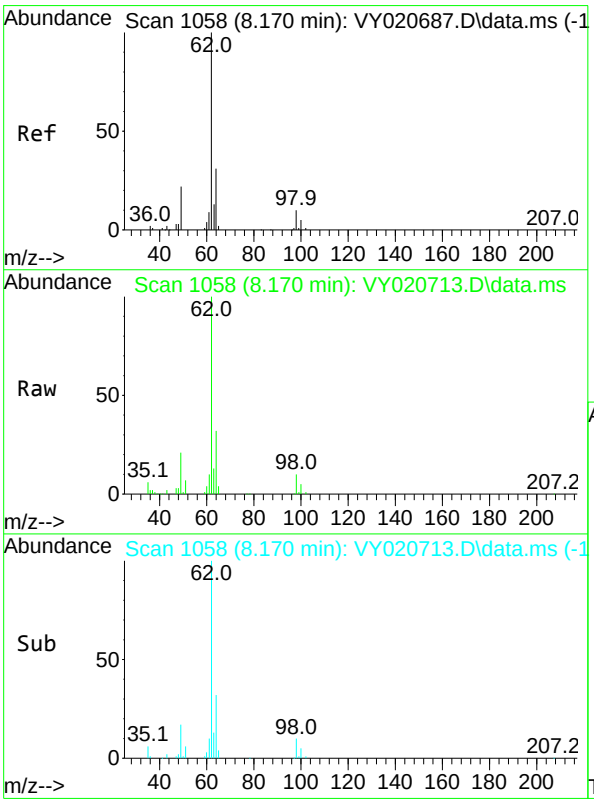

#41
Methacrylonitrile
Concen: 46.896 ug/l
RT: 7.237 min Scan# 9
Delta R.T. 0.005 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 41 Resp: 9136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.0 | 46.6 | 70.0 |
| 67 | 103.5 | 74.7 | 112.1 |
| 52 | 42.3 | 32.2 | 48.4 |

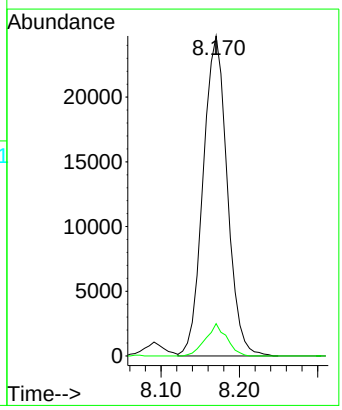


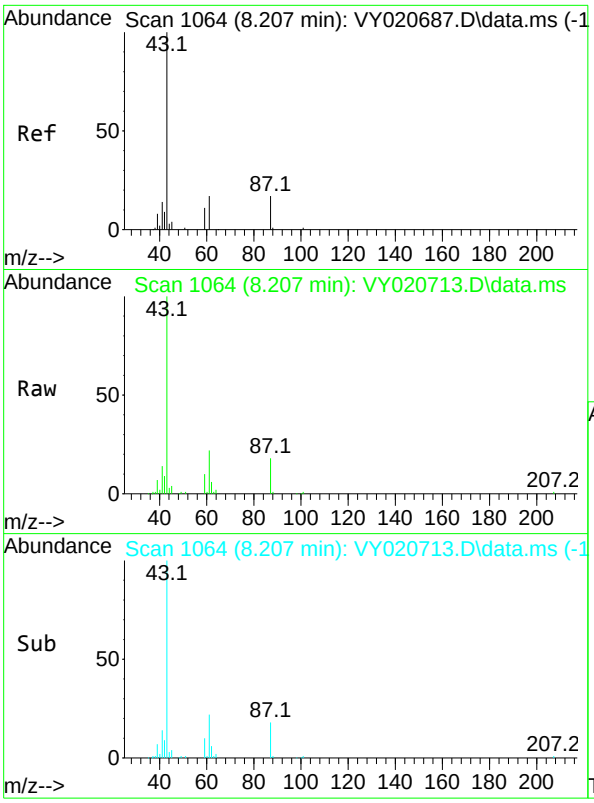




#42
1,2-Dichloroethane
Concen: 48.661 ug/l
RT: 8.170 min Scan# 1058
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 62 Resp: 52925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.8 | 0.0 | 16.6 |



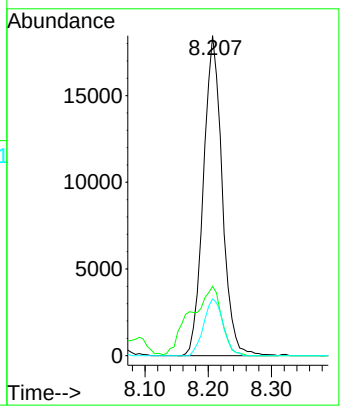


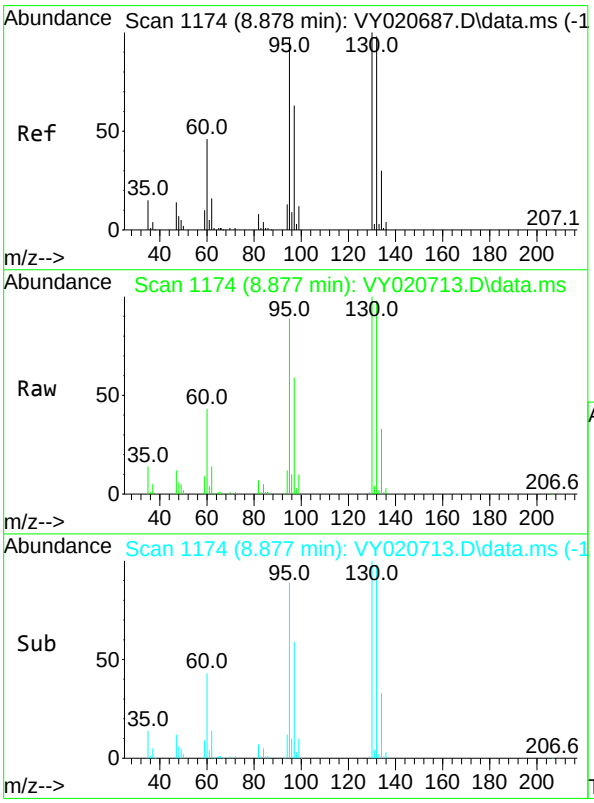

#43
Isopropyl Acetate
Concen: 46.479 ug/l
RT: 8.207 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 43 Resp: 38101

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 35.8 | 27.0 | 40.4 |
| 87 | 18.3 | 14.2 | 21.4 |

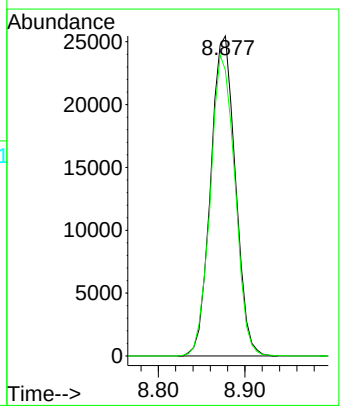


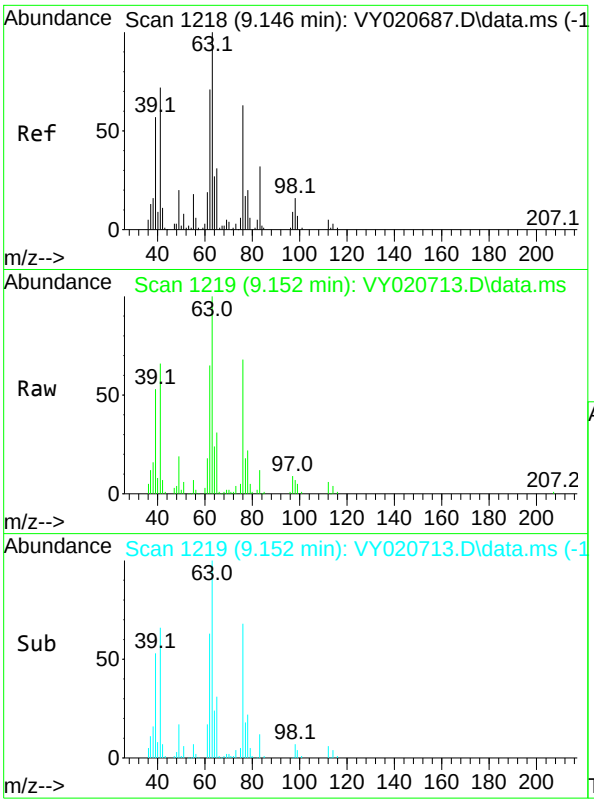




#44
Trichloroethene
Concen: 49.703 ug/l
RT: 8.877 min Scan# 1174
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:130 Resp: 50355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 89.3 | 0.0 | 194.8 |



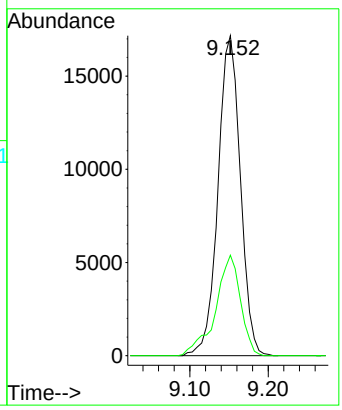


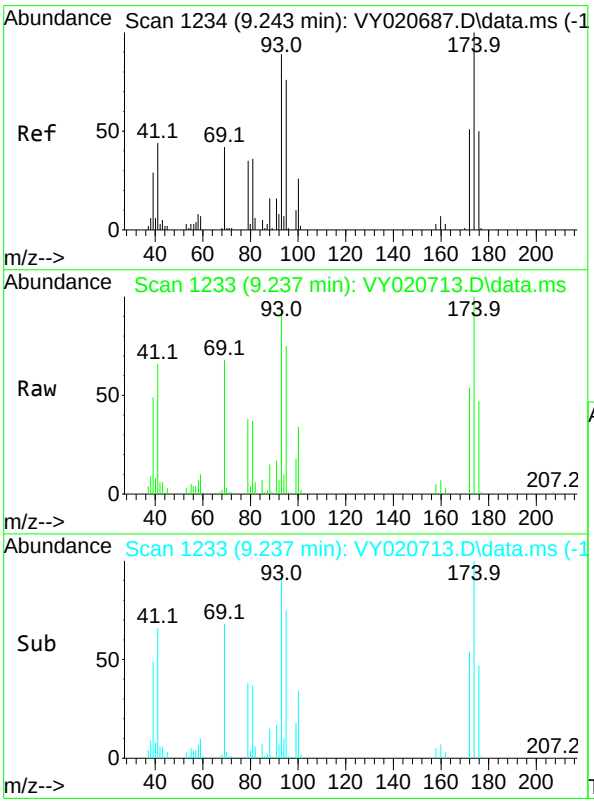

#45
1,2-Dichloropropane
Concen: 49.593 ug/l
RT: 9.152 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 63 Resp: 34051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 24.6 | 36.8 |

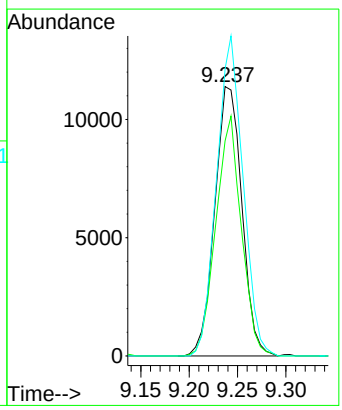


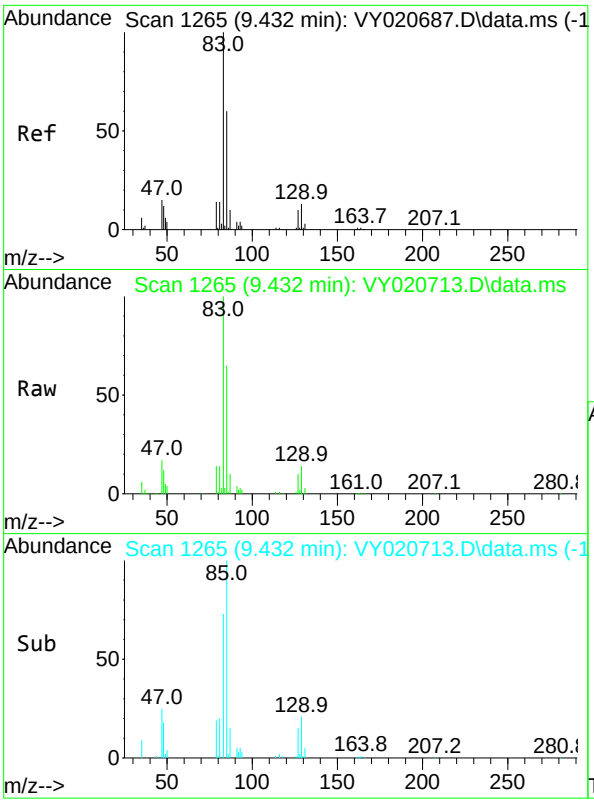




#46
Dibromomethane
Concen: 46.666 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 93 Resp: 22170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.8 | 67.8 | 101.8 |
| 174 | 115.7 | 89.4 | 134.0 |



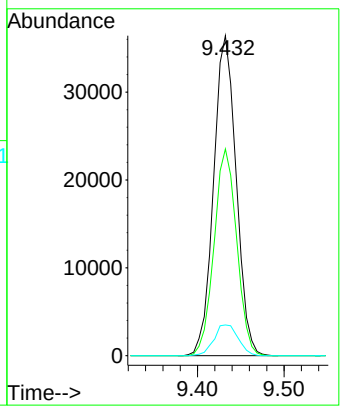


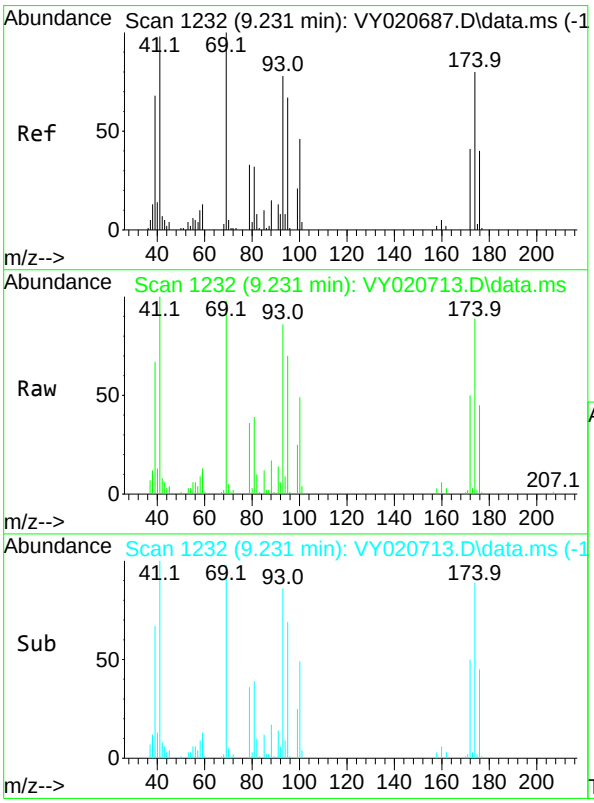

#47
Bromodichloromethane
Concen: 48.995 ug/l
RT: 9.432 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 83 Resp: 65991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.6 | 47.6 | 71.4 |
| 127 | 9.6 | 7.9 | 11.9 |

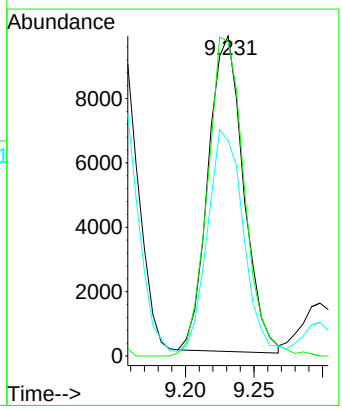


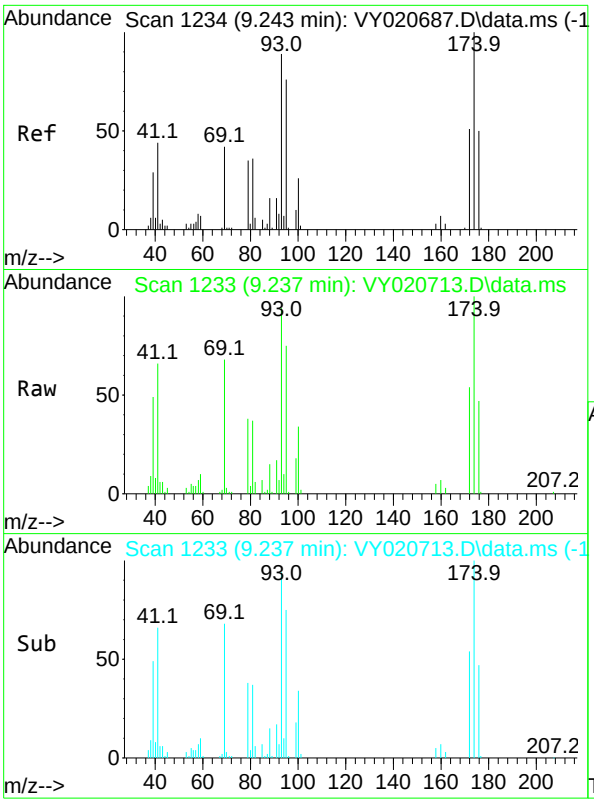




#48
Methyl methacrylate
Concen: 45.829 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 41 Resp: 17544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 105.1 | 83.1 | 124.7 |
| 39 | 71.1 | 57.3 | 85.9 |



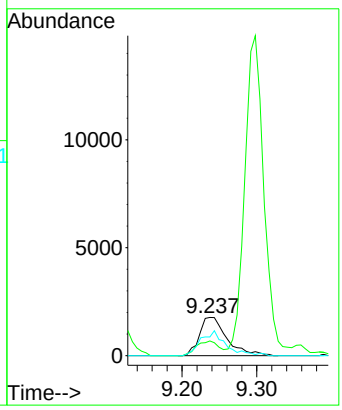


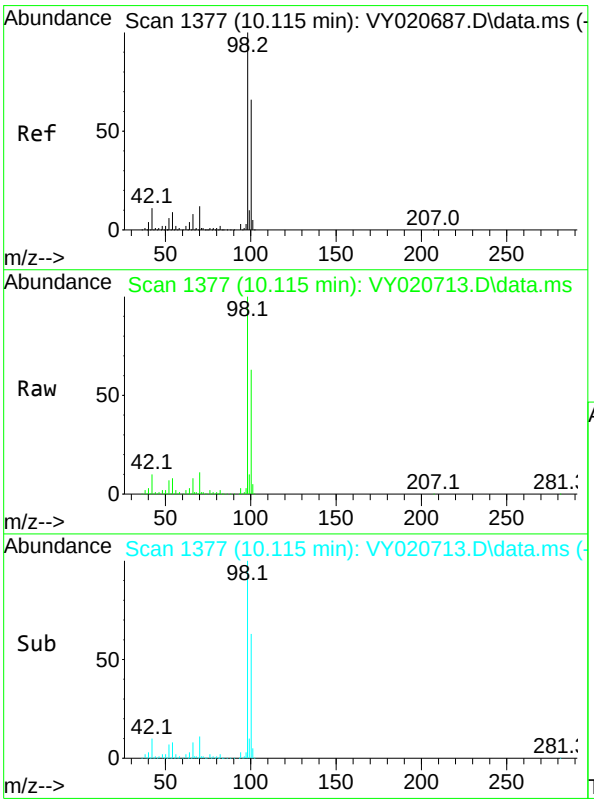

#49
1,4-Dioxane
Concen: 998.617 ug/l
RT: 9.237 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 88 Resp: 4519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 31.2 | 22.1 | 33.1 |
| 58 | 59.8 | 46.7 | 70.1 |

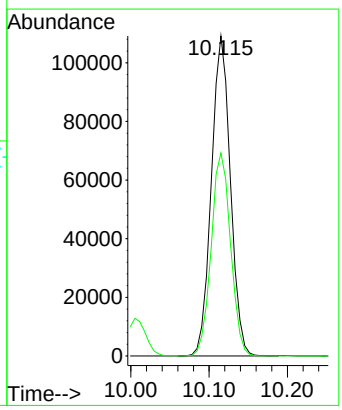


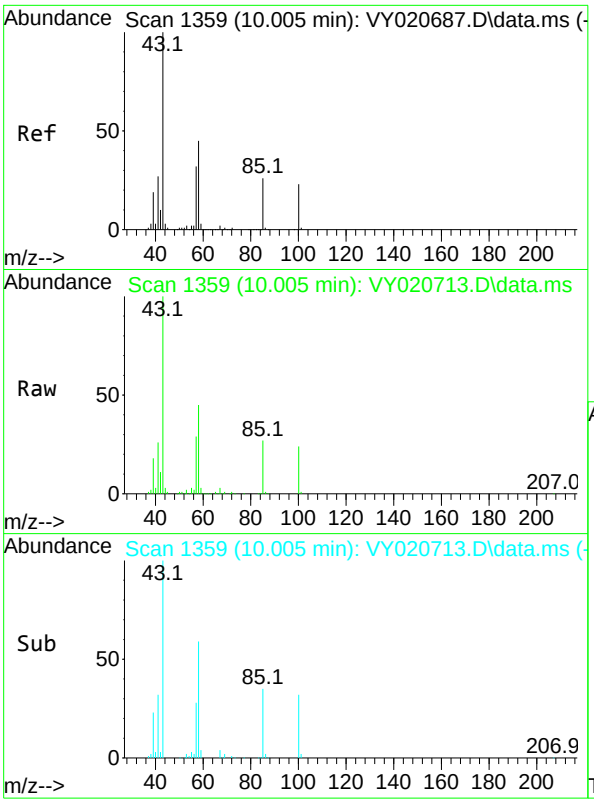




#50
Toluene-d8
Concen: 52.171 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 98 Resp: 184089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.6 | 52.2 | 78.4 |



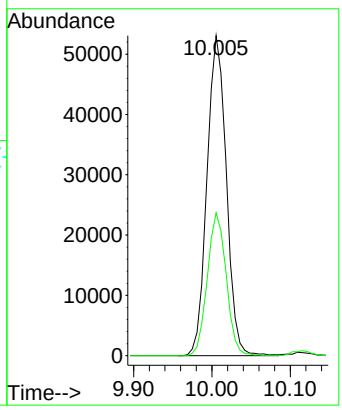


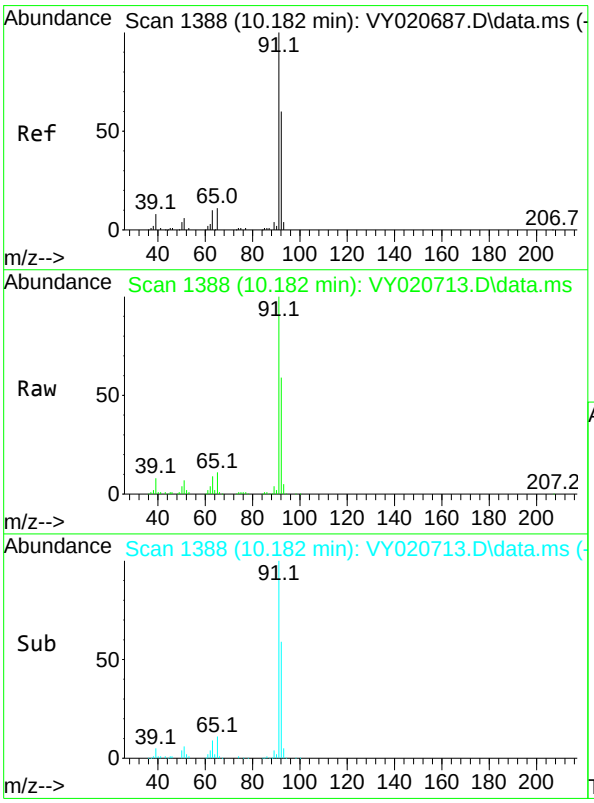

#51
4-Methyl-2-Pentanone
Concen: 230.147 ug/l
RT: 10.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 43 Resp: 91062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.5 | 35.1 | 52.7 |

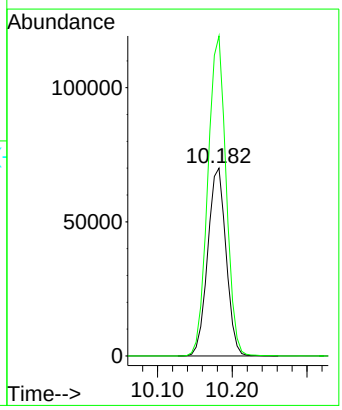


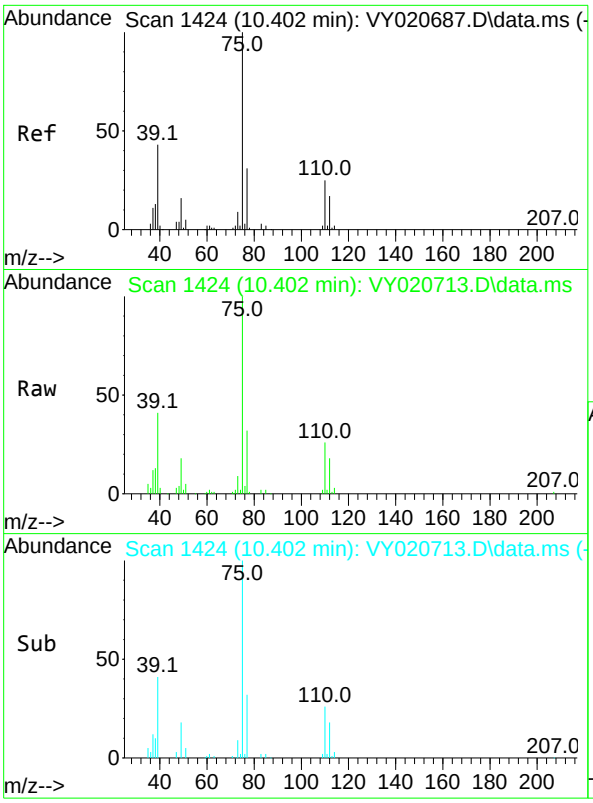




#52
Toluene
Concen: 51.455 ug/l
RT: 10.182 min Scan# 1388
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 92 Resp: 119622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.7 | 137.7 | 206.5 |



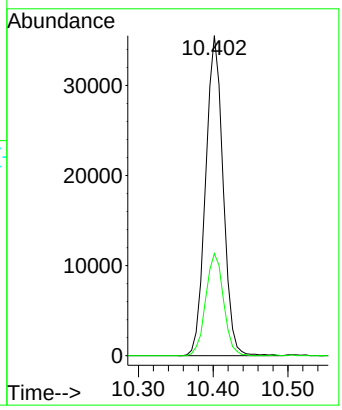


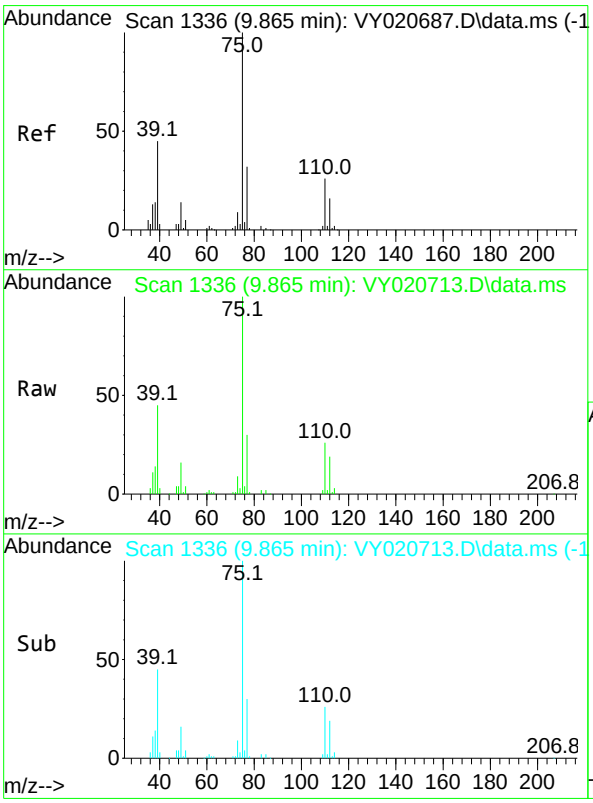

#53
t-1,3-Dichloropropene
Concen: 48.805 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 75 Resp: 57734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.1 | 37.7 |

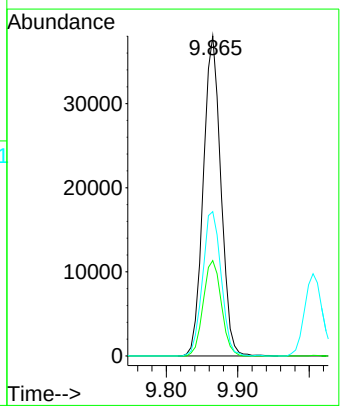


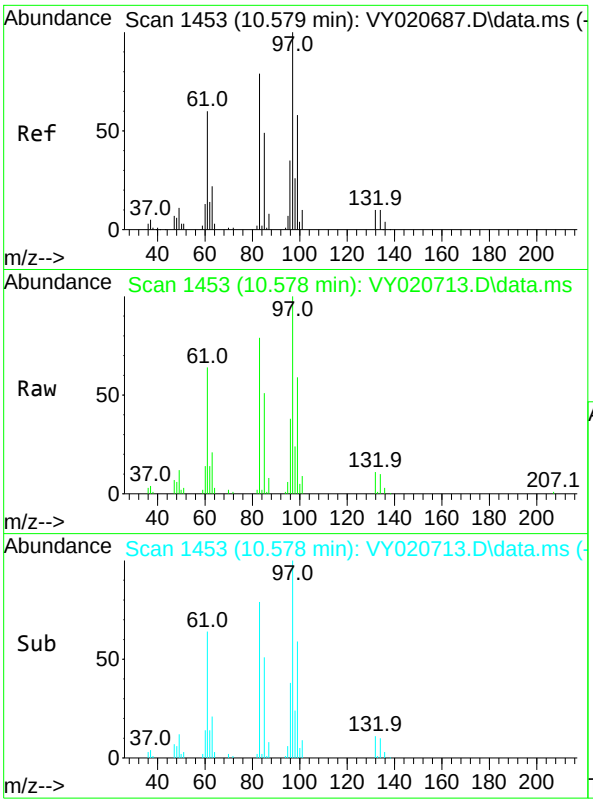




#54
cis-1,3-Dichloropropene
Concen: 49.949 ug/l
RT: 9.865 min Scan# 1336
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 75 Resp: 64766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.8 | 25.6 | 38.4 |
| 39 | 45.1 | 36.2 | 54.2 |



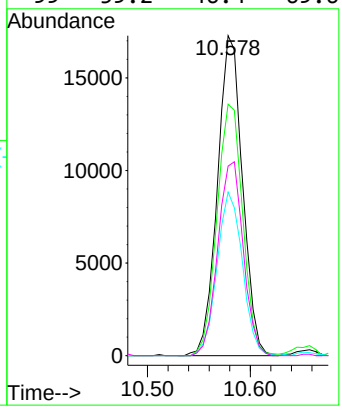


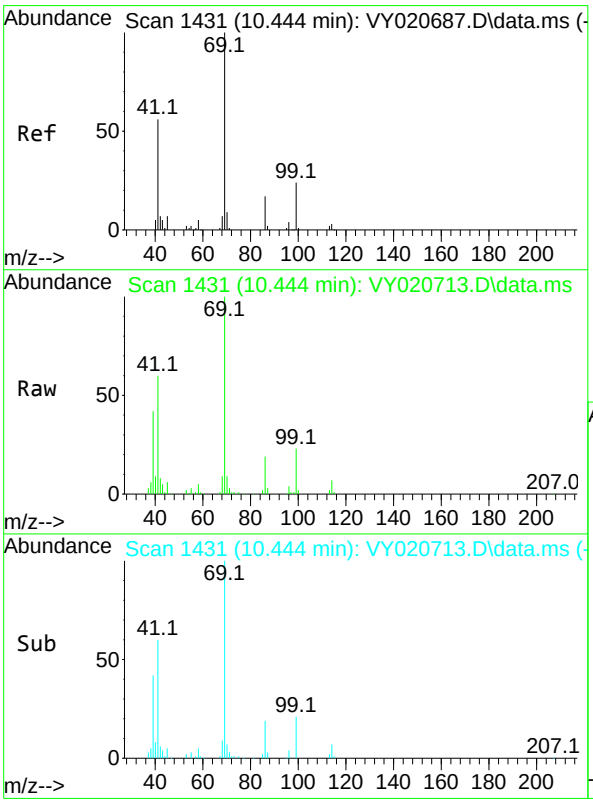

#55
1,1,2-Trichloroethane
Concen: 48.206 ug/l
RT: 10.578 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 97 Resp: 29233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 78.6 | 63.1 | 94.7 |
| 85 | 51.1 | 39.5 | 59.3 |
| 99 | 59.2 | 46.4 | 69.6 |

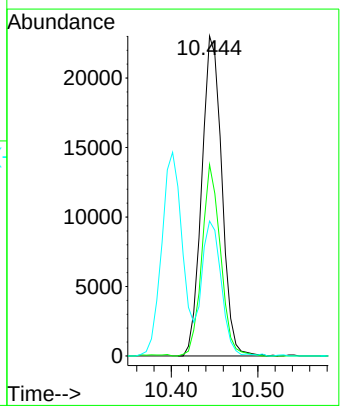


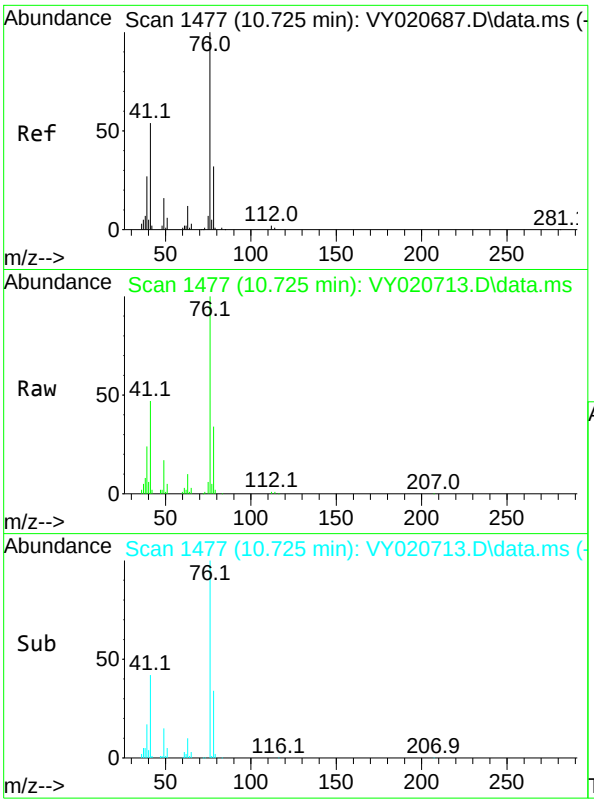




#56
Ethyl methacrylate
Concen: 46.506 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 69 Resp: 37050

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 55.6 | 43.8 | 65.6 |
| 39 | 40.6 | 32.0 | 48.0 |



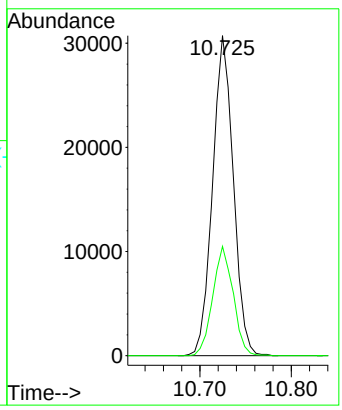


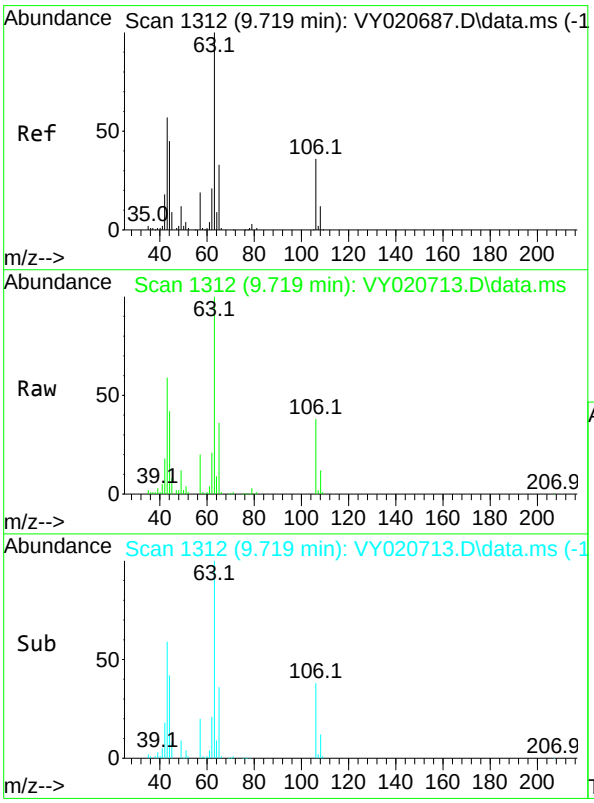

#57
1,3-Dichloropropane
Concen: 49.234 ug/l
RT: 10.725 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 76 Resp: 48458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.6 | 25.0 | 37.6 |

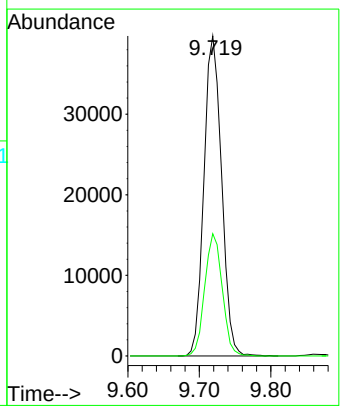


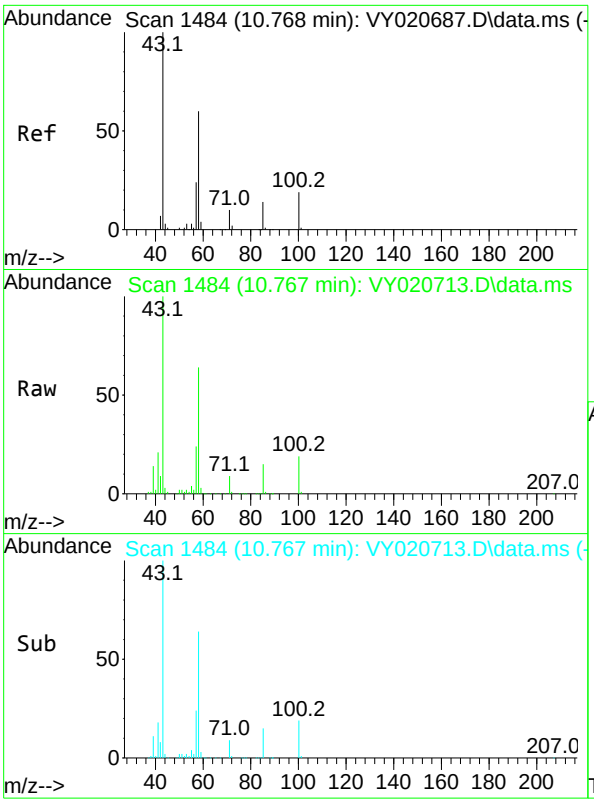




#58
2-Chloroethyl Vinyl ether
Concen: 244.679 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 63 Resp: 67974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 38.0 | 29.1 | 43.7 |



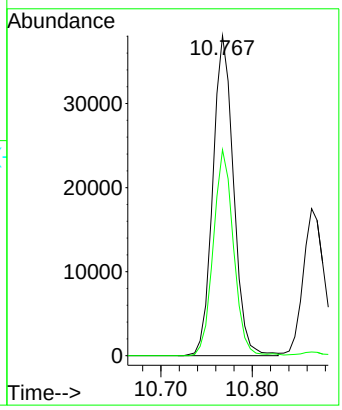


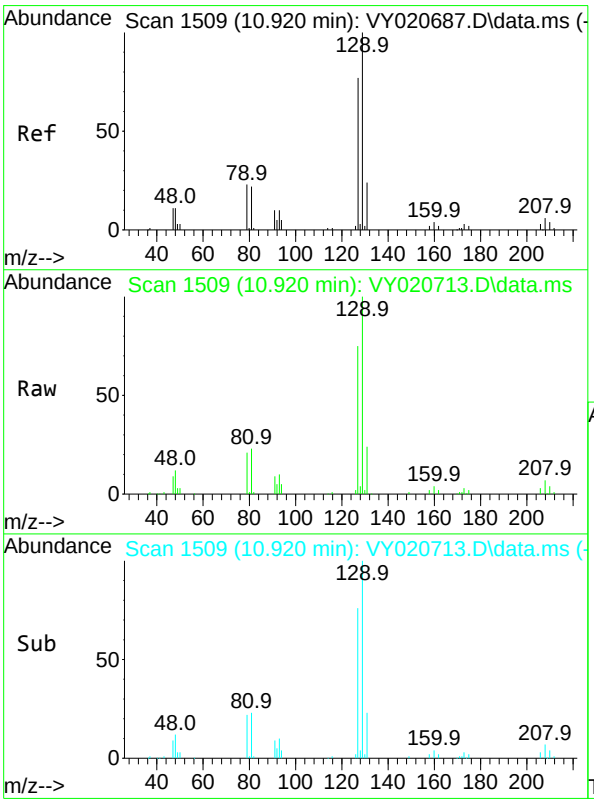

#59
2-Hexanone
Concen: 229.110 ug/l
RT: 10.767 min Scan# 14
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 43 Resp: 59853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 62.7 | 30.1 | 90.5 |

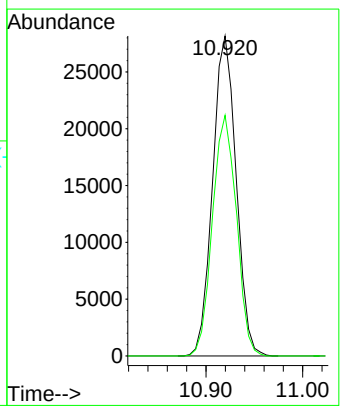


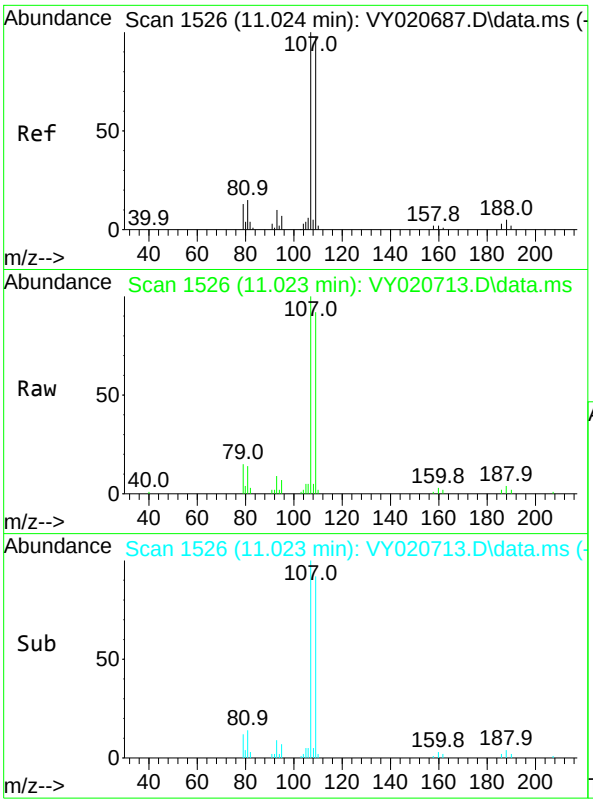




#60
Dibromochloromethane
Concen: 48.574 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:129 Resp: 47597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.7 | 38.5 | 115.5 |



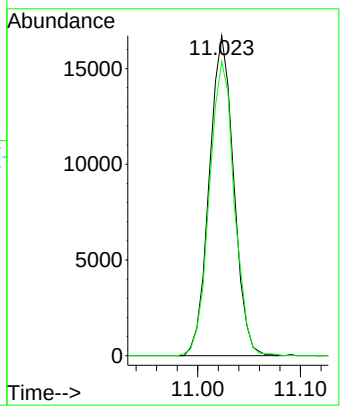


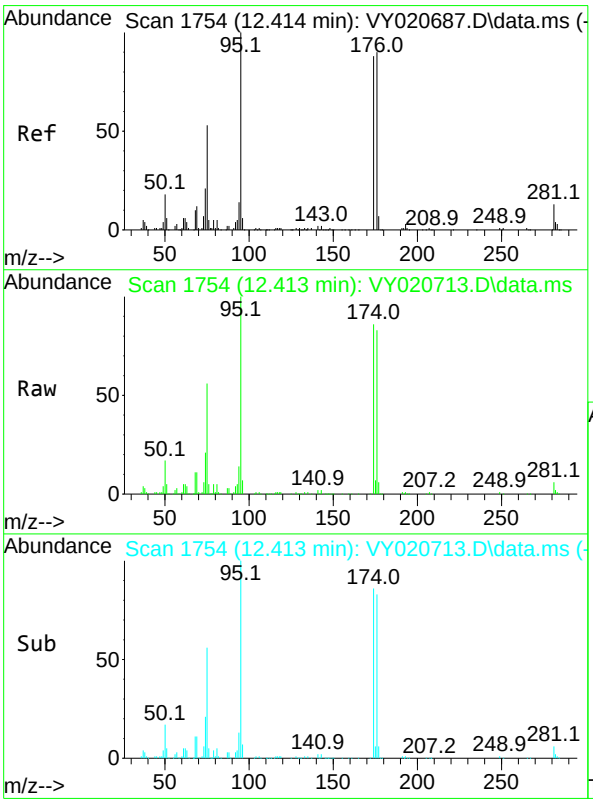

#61
1,2-Dibromoethane
Concen: 48.387 ug/l
RT: 11.023 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:107 Resp: 27610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.0 | 75.5 | 113.3 |

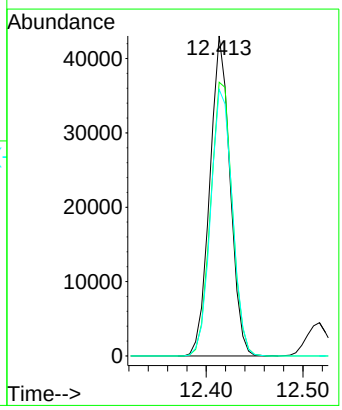


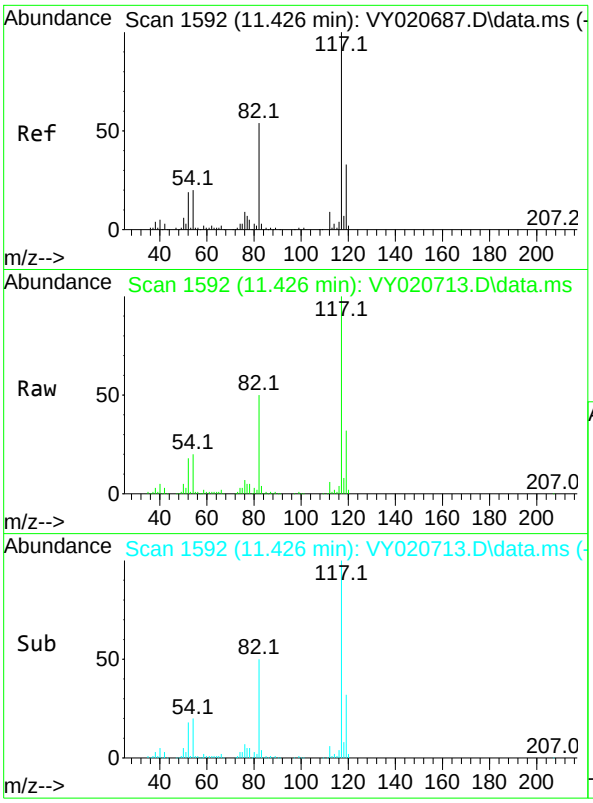




#62
4-Bromofluorobenzene
Concen: 53.215 ug/l
RT: 12.413 min Scan# 1754
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 95 Resp: 62660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.1 | 0.0 | 179.2 |
| 176 | 88.9 | 0.0 | 179.8 |



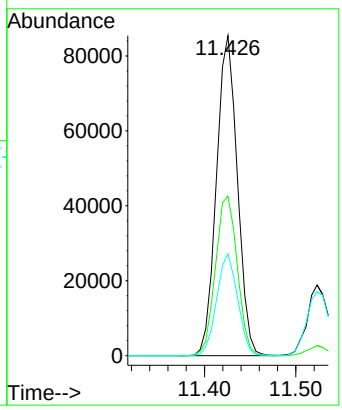


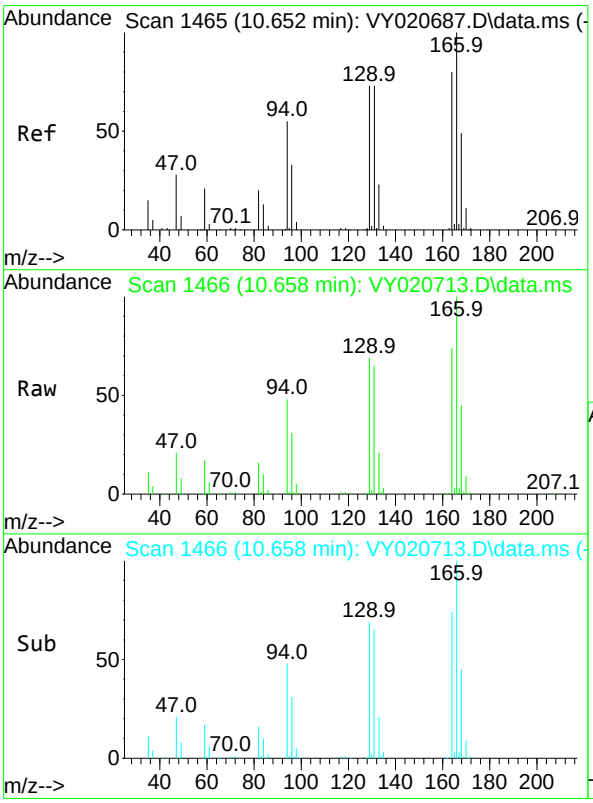

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.426 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:117 Resp: 136421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 49.8 | 43.4 | 65.2 |
| 119 | 31.9 | 26.6 | 39.8 |

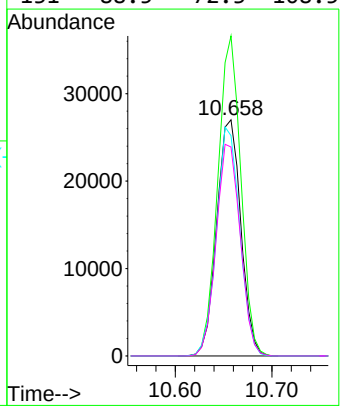


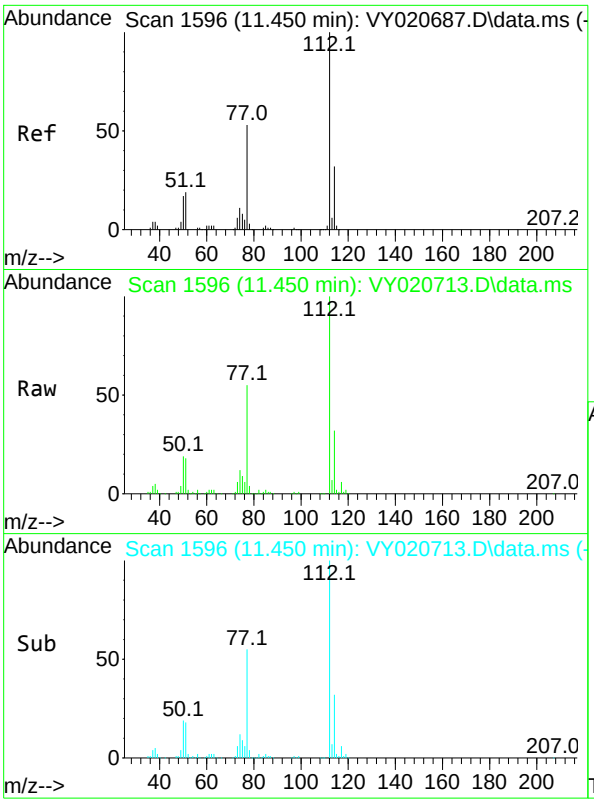




#64
Tetrachloroethene
Concen: 50.131 ug/l
RT: 10.658 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:164 Resp: 46724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 135.5 | 99.6 | 149.4 |
| 129 | 93.3 | 73.0 | 109.4 |
| 131 | 88.5 | 72.3 | 108.5 |



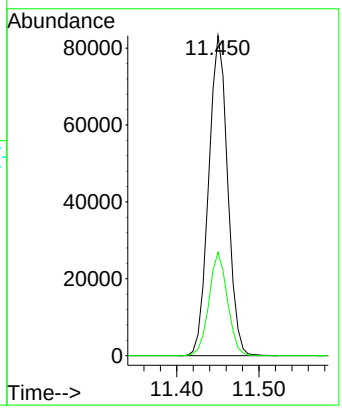


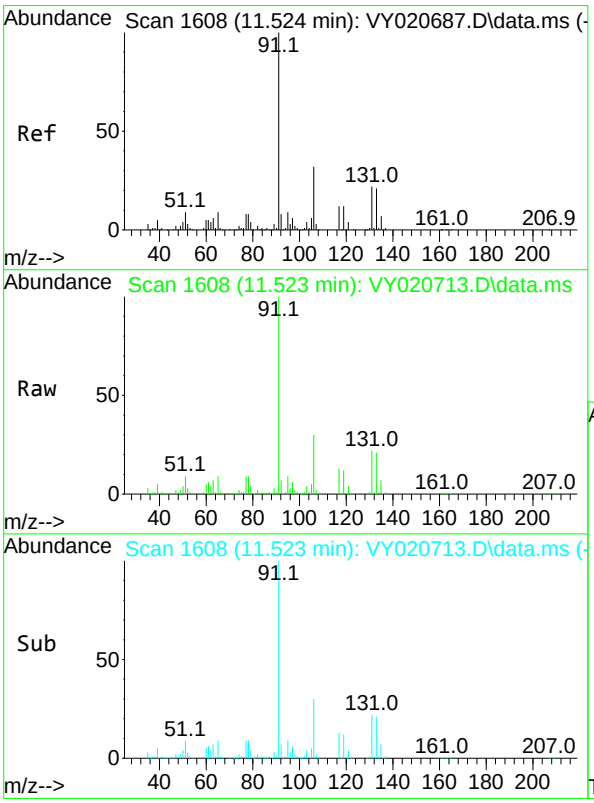

#65
Chlorobenzene
Concen: 49.866 ug/l
RT: 11.450 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:112 Resp: 133203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.3 | 25.4 | 38.0 |

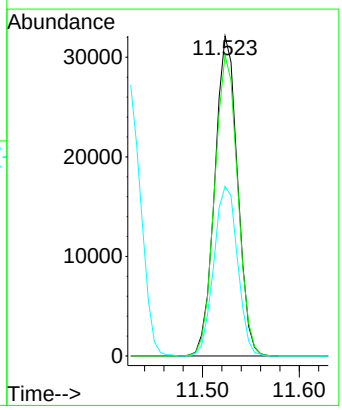


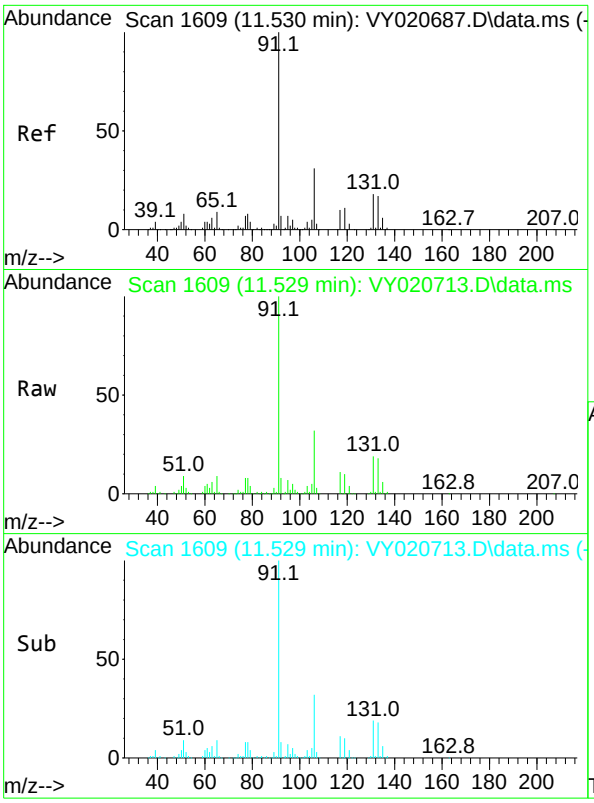




#66
1,1,1,2-Tetrachloroethane
Concen: 50.630 ug/l
RT: 11.523 min Scan# 1608
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:131 Resp: 52397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 48.6 | 145.9 |
| 119 | 55.4 | 28.4 | 85.3 |



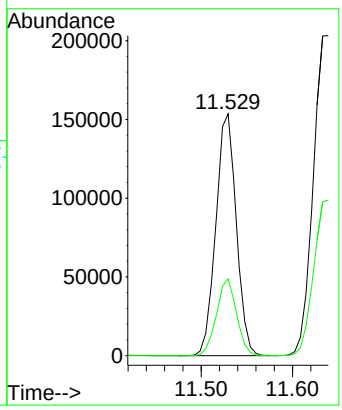


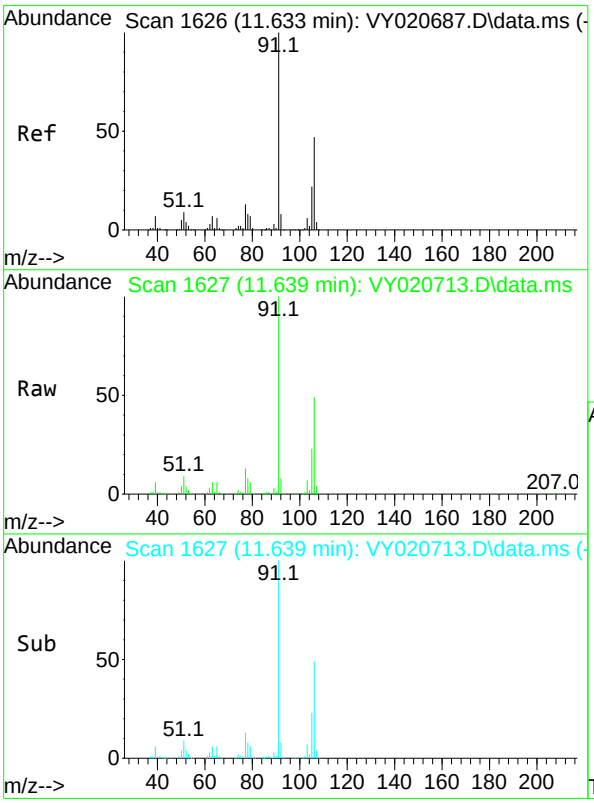

#67
Ethyl Benzene
Concen: 51.151 ug/l
RT: 11.529 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 91 Resp: 238810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.8 | 24.5 | 36.7 |

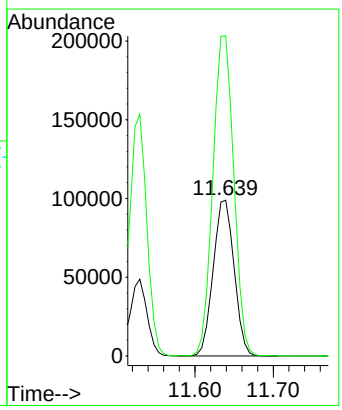


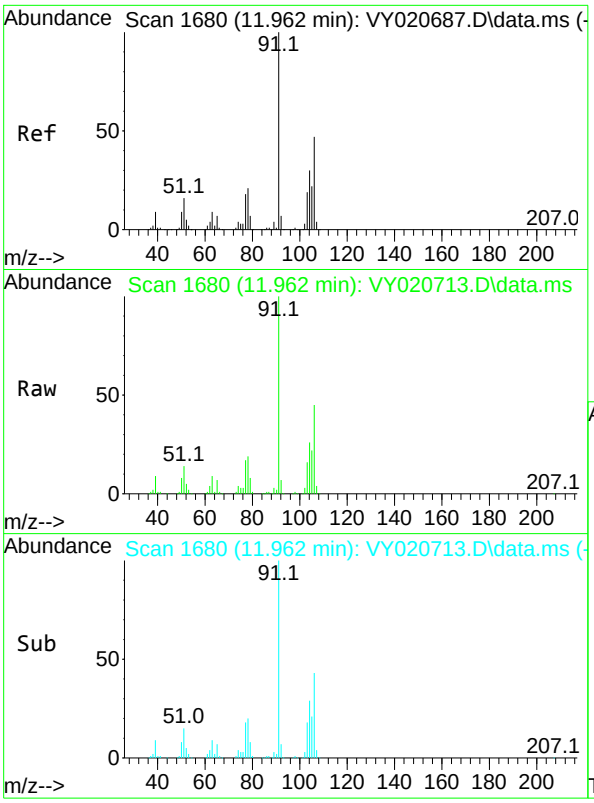




#68
m/p-Xylenes
Concen: 103.152 ug/l
RT: 11.639 min Scan# 1627
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:106 Resp: 183706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 205.9 | 166.6 | 250.0 |



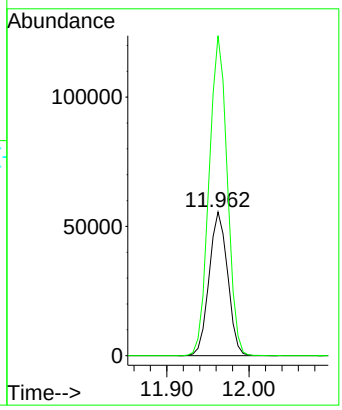


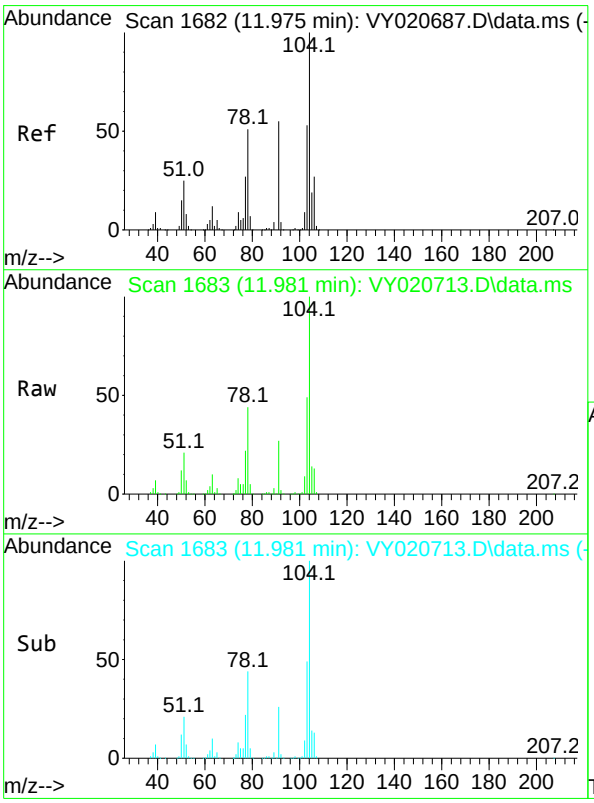

#69
o-Xylene
Concen: 51.032 ug/l
RT: 11.962 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:106 Resp: 86833

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.3 | 108.6 | 325.8 |

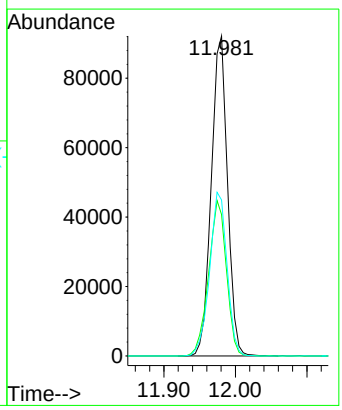


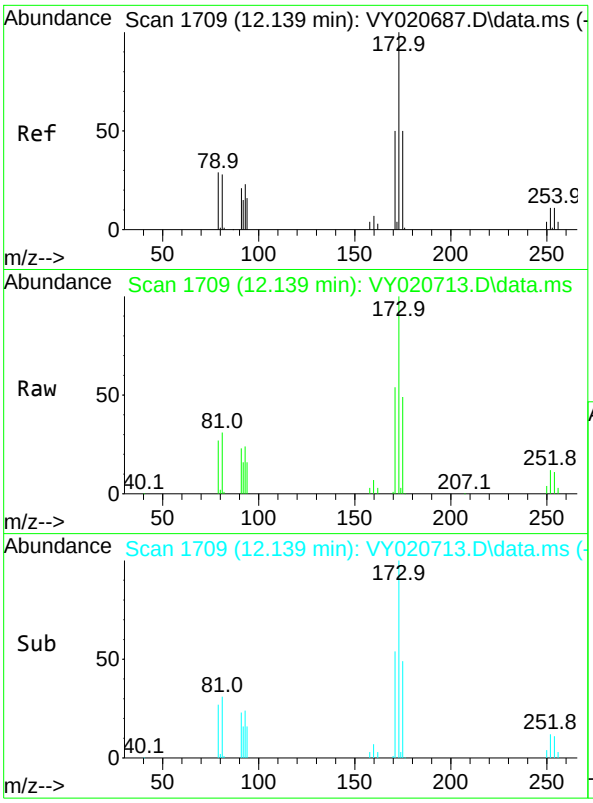




#70
Styrene
Concen: 50.717 ug/l
RT: 11.981 min Scan# 1683
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:104 Resp: 144868

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.4 | 43.0 | 64.4 |
| 103 | 55.0 | 44.4 | 66.6 |



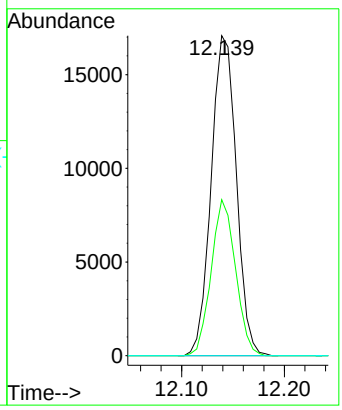


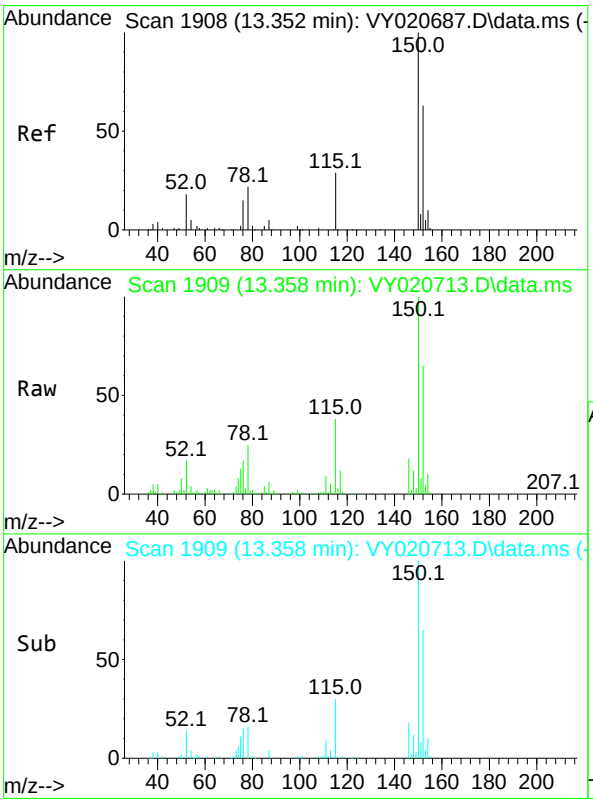

#71
Bromoform
Concen: 48.733 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:173 Resp: 28995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.4 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

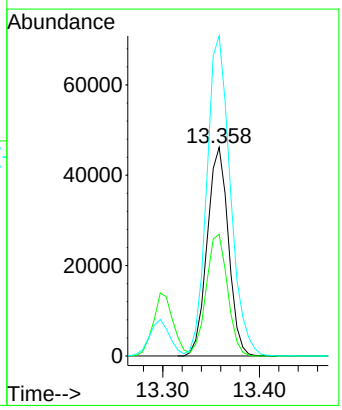


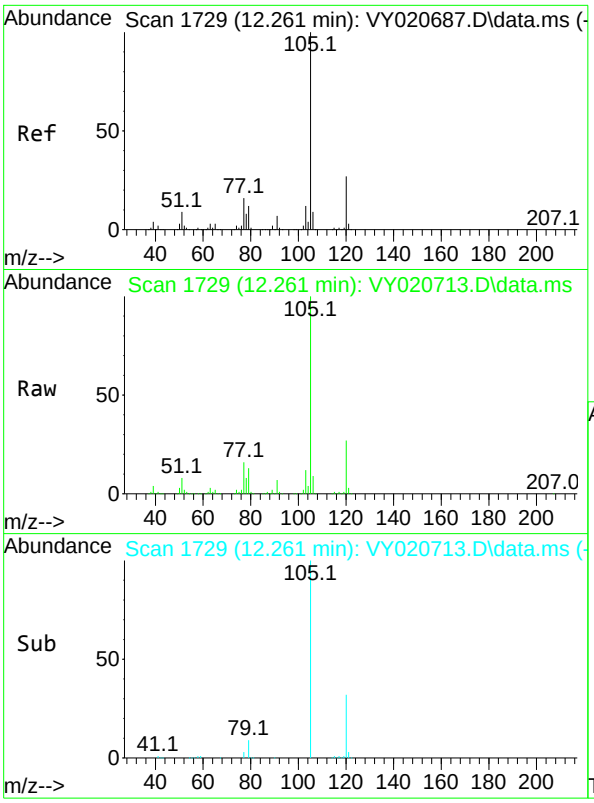




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.358 min Scan# 1909
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:152 Resp: 70383

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.4 | 30.3 | 90.9 |
| 150 | 170.0 | 0.0 | 349.0 |



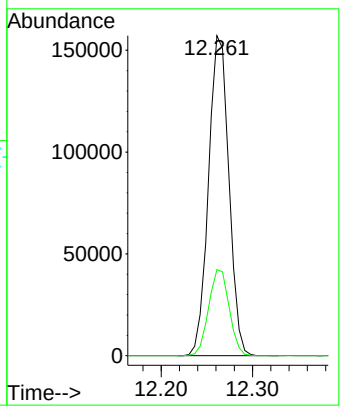


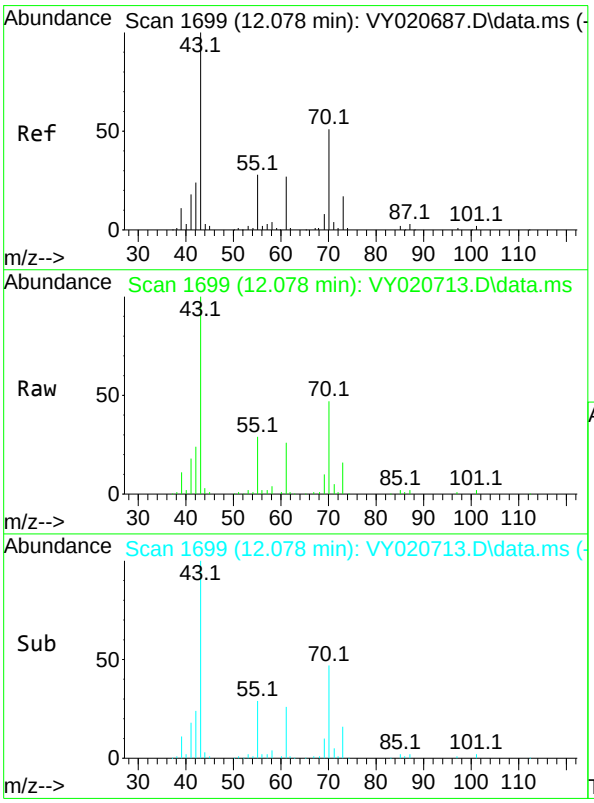

#73
Isopropylbenzene
Concen: 49.720 ug/l
RT: 12.261 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:105 Resp: 242449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.3 | 39.9 |

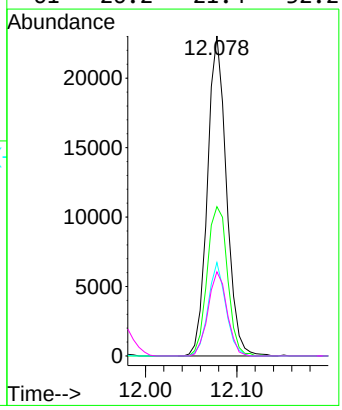


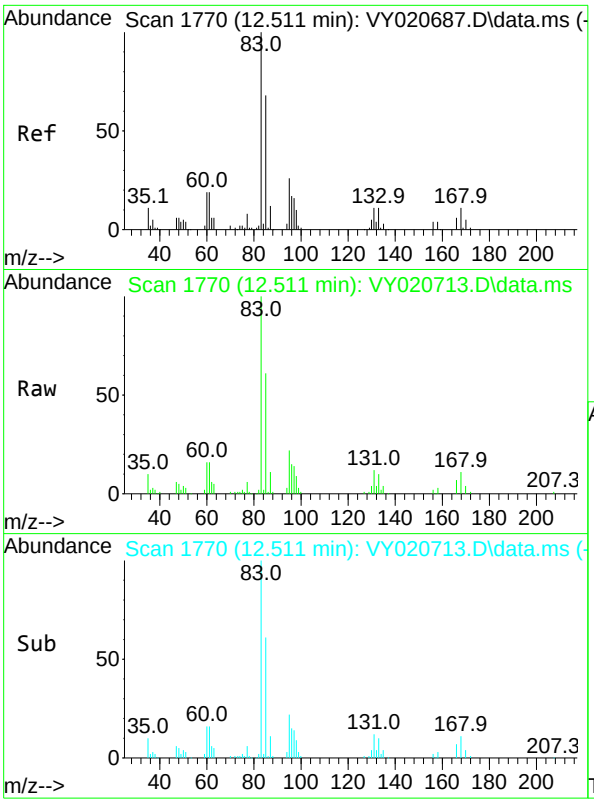




#74
N-amyl acetate
Concen: 48.015 ug/l
RT: 12.078 min Scan# 1699
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 43 Resp: 33272

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 49.9 | 39.7 | 59.5 |
| 55 | 27.2 | 21.5 | 32.3 |
| 61 | 26.2 | 21.4 | 32.2 |



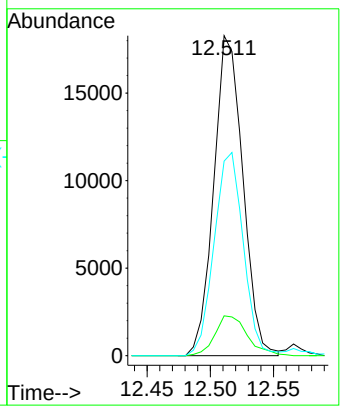


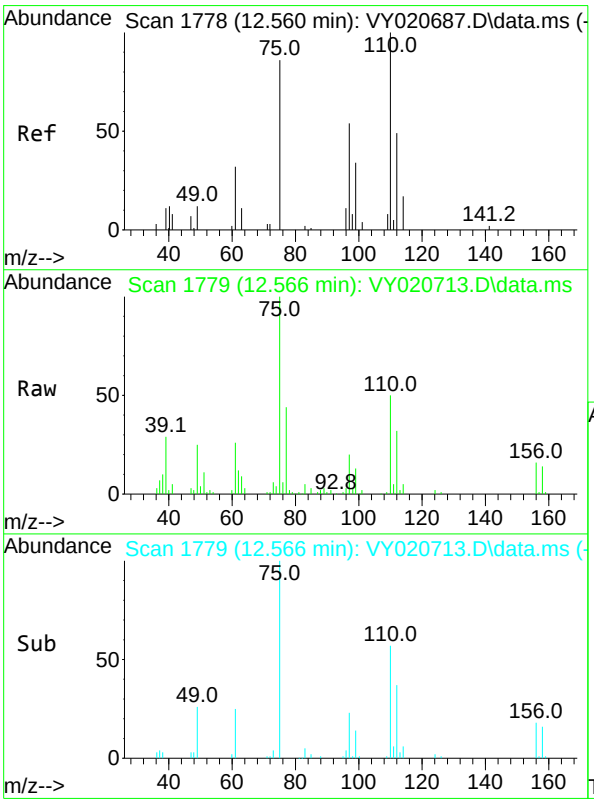

#75
1,1,2,2-Tetrachloroethane
Concen: 46.657 ug/l
RT: 12.511 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 83 Resp: 29166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.0 | 6.9 | 20.7 |
| 85 | 63.9 | 32.5 | 97.4 |

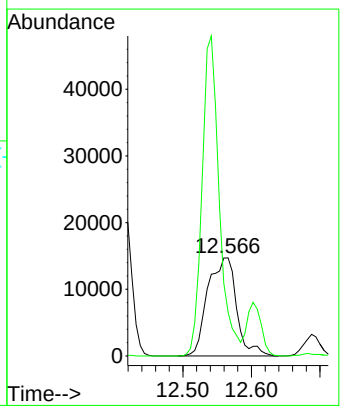


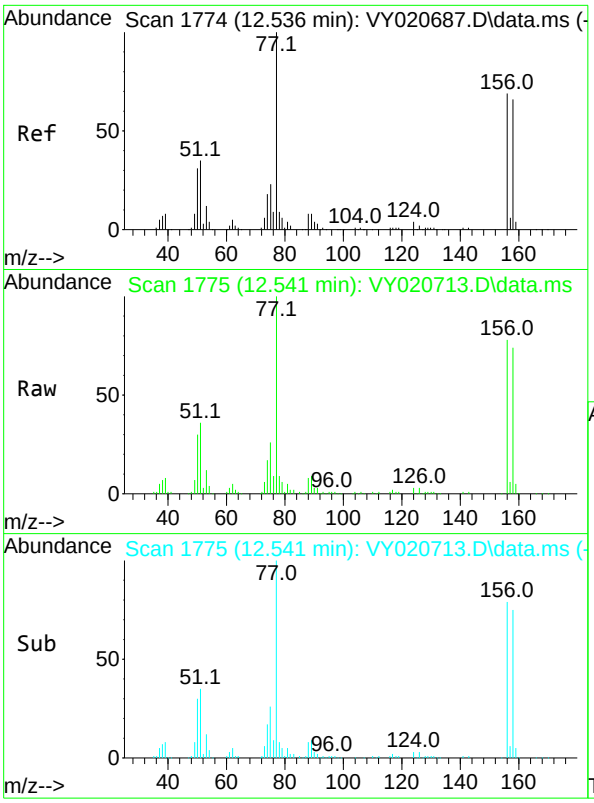




#76
1,2,3-Trichloropropane
Concen: 95.817 ug/l
RT: 12.566 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 75 Resp: 42892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



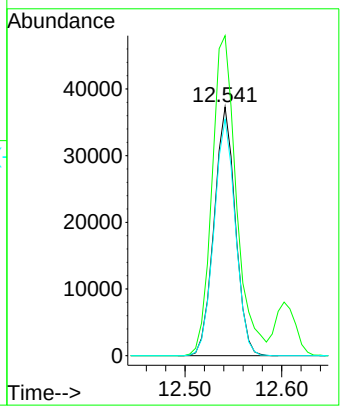


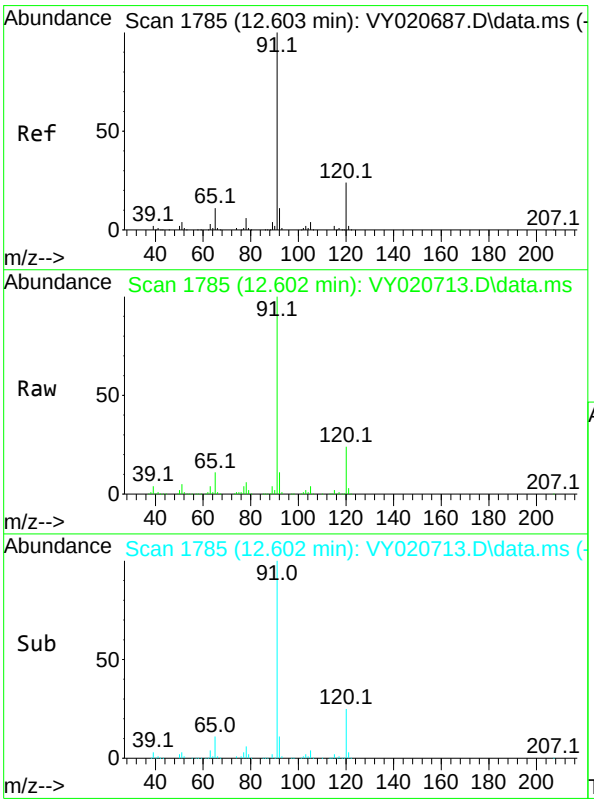

#77
Bromobenzene
Concen: 50.459 ug/l
RT: 12.541 min Scan# 1
Delta R.T. 0.005 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:156 Resp: 56640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 148.5 | 78.3 | 235.0 |
| 158 | 96.1 | 48.3 | 144.9 |

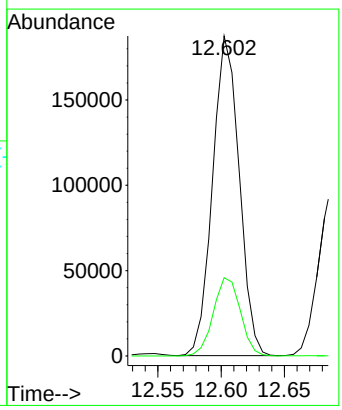


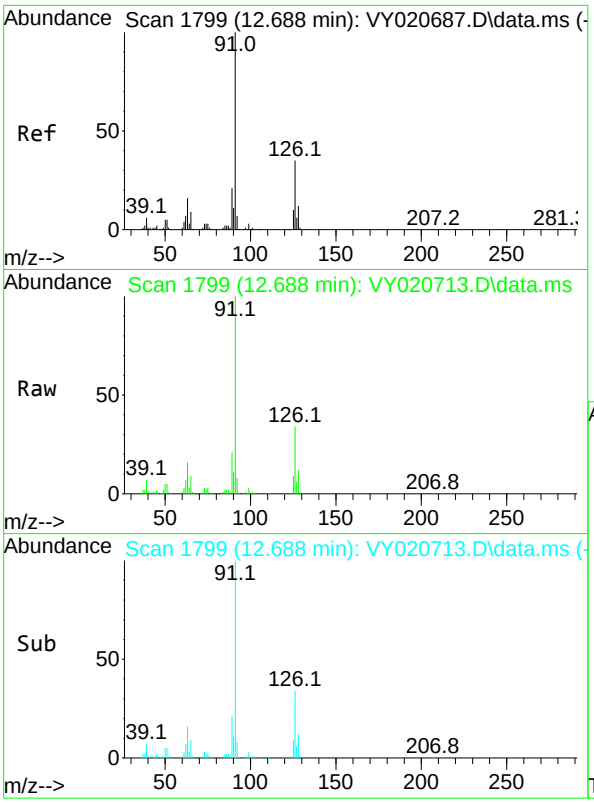




#78
n-propylbenzene
Concen: 50.119 ug/l
RT: 12.602 min Scan# 1785
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 91 Resp: 273917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.9 | 12.3 | 36.8 |



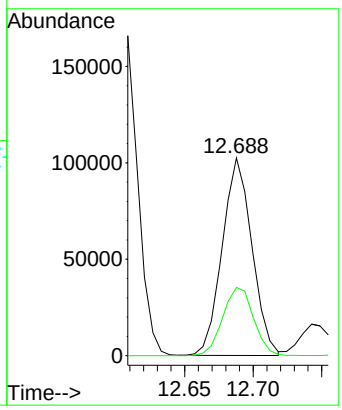


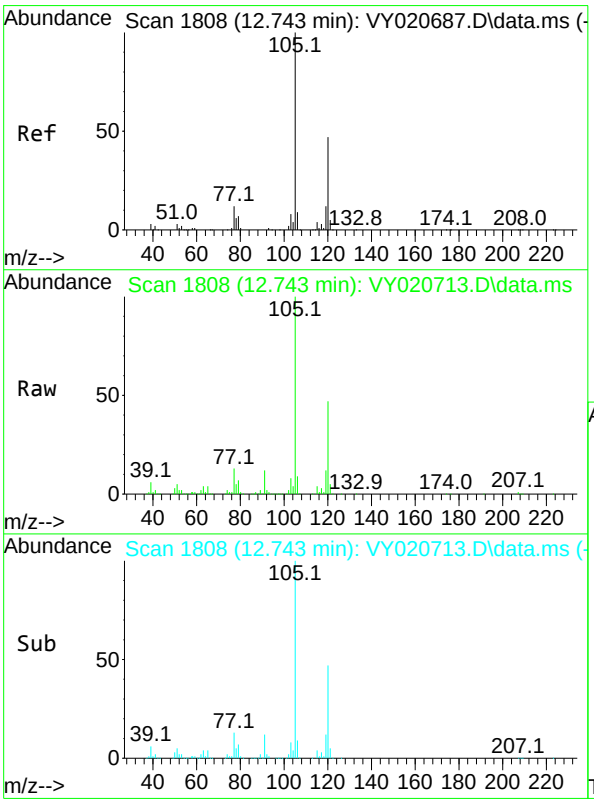

#79
2-Chlorotoluene
Concen: 49.656 ug/l
RT: 12.688 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 91 Resp: 154710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.9 | 17.8 | 53.3 |

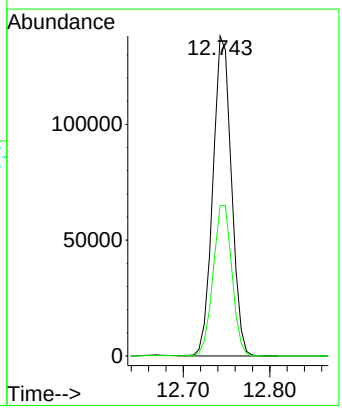


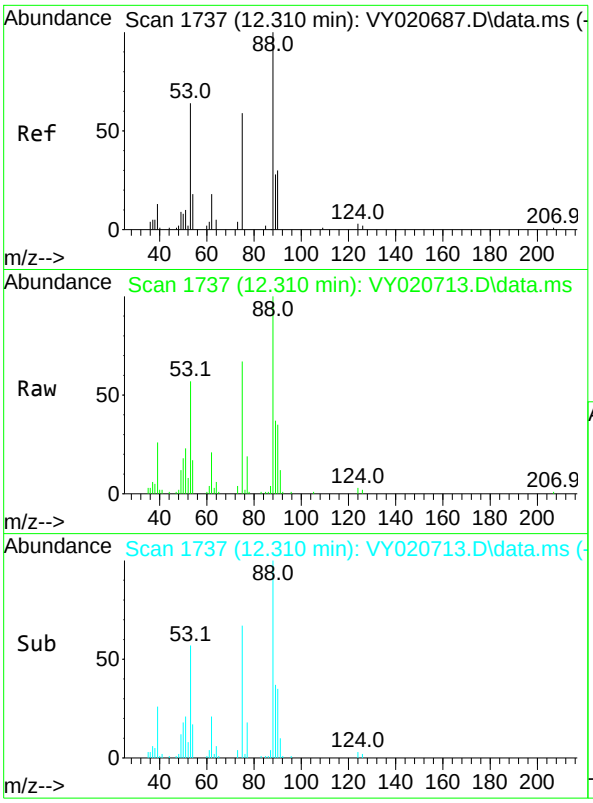




#80
1,3,5-Trimethylbenzene
Concen: 50.488 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:105 Resp: 205116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.2 | 23.9 | 71.7 |



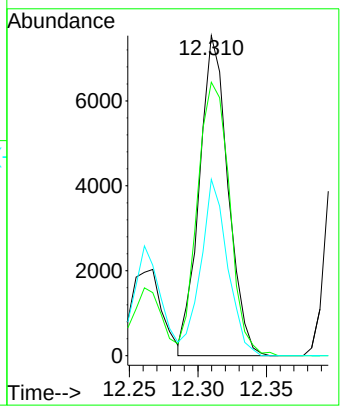


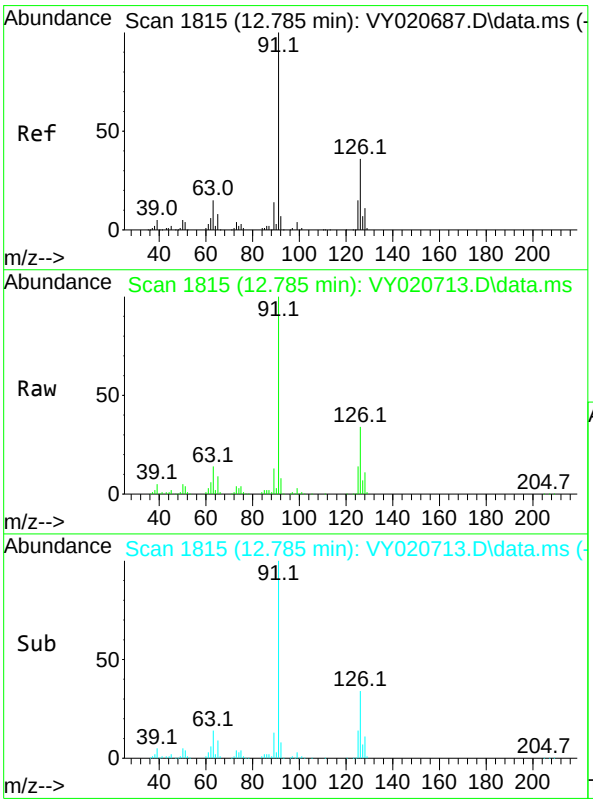

#81
trans-1,4-Dichloro-2-butene
Concen: 48.646 ug/l
RT: 12.310 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 75 Resp: 11017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 95.0 | 83.1 | 124.7 |
| 89 | 51.5 | 40.6 | 61.0 |

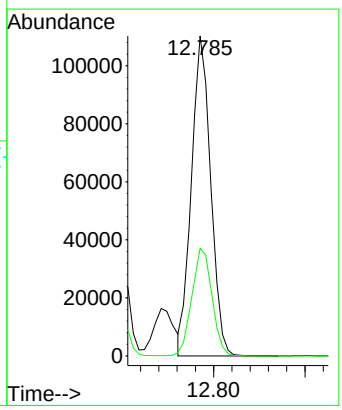


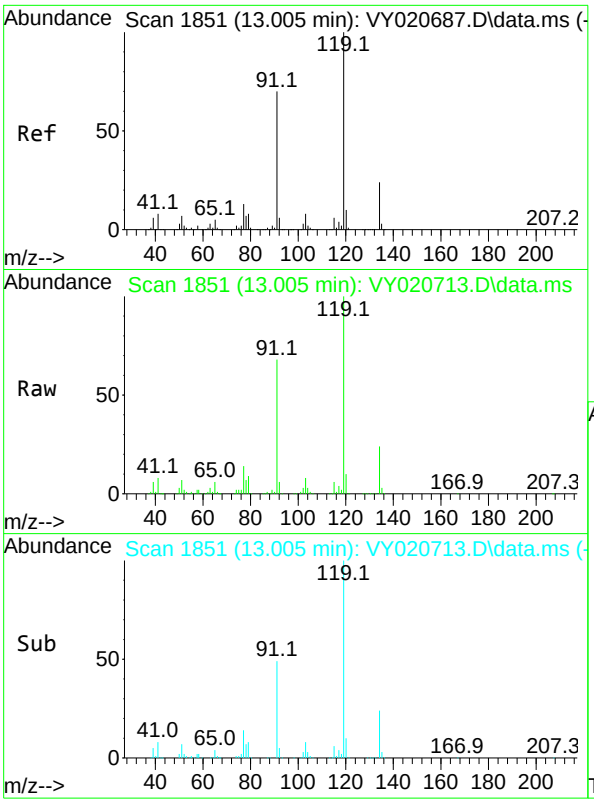




#82
4-Chlorotoluene
Concen: 50.168 ug/l
RT: 12.785 min Scan# 1815
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 91 Resp: 161536

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.2 | 17.8 | 53.5 |



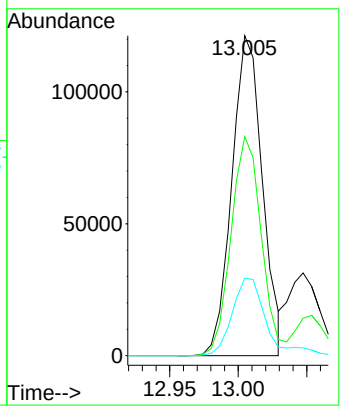


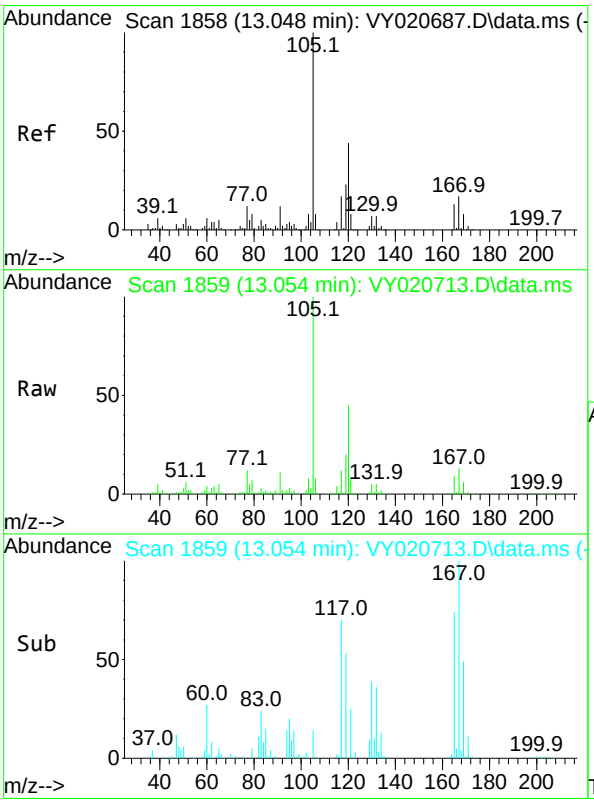

#83
tert-Butylbenzene
Concen: 49.565 ug/l
RT: 13.005 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:119 Resp: 188052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 68.2 | 33.6 | 100.8 |
| 134 | 27.0 | 13.4 | 40.2 |

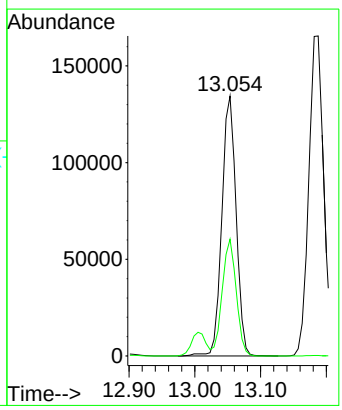


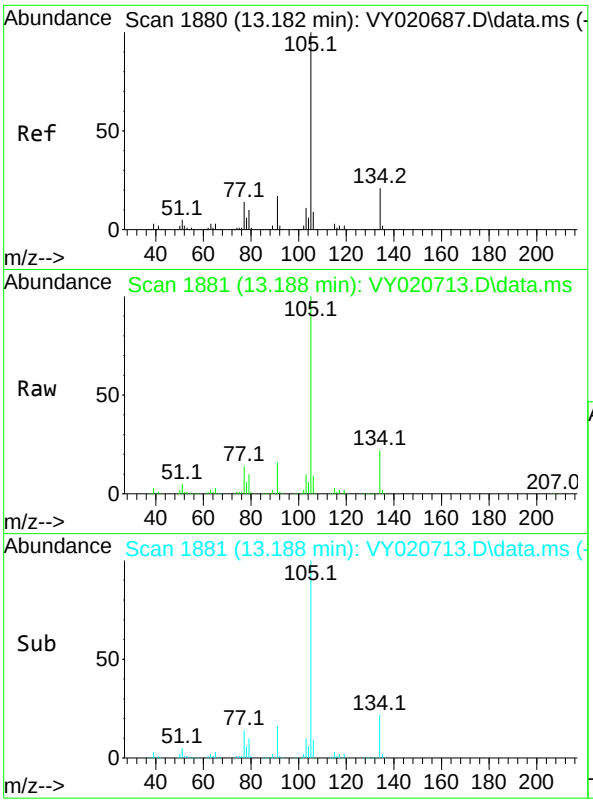




#84
1,2,4-Trimethylbenzene
Concen: 51.350 ug/l
RT: 13.054 min Scan# 1859
Delta R.T. 0.005 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:105 Resp: 203012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.2 | 21.8 | 65.3 |



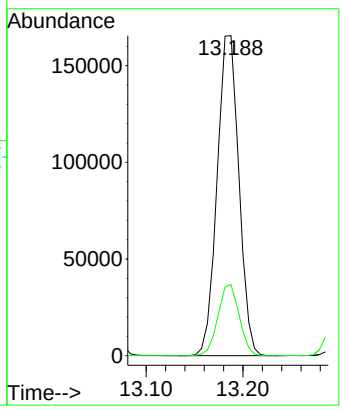


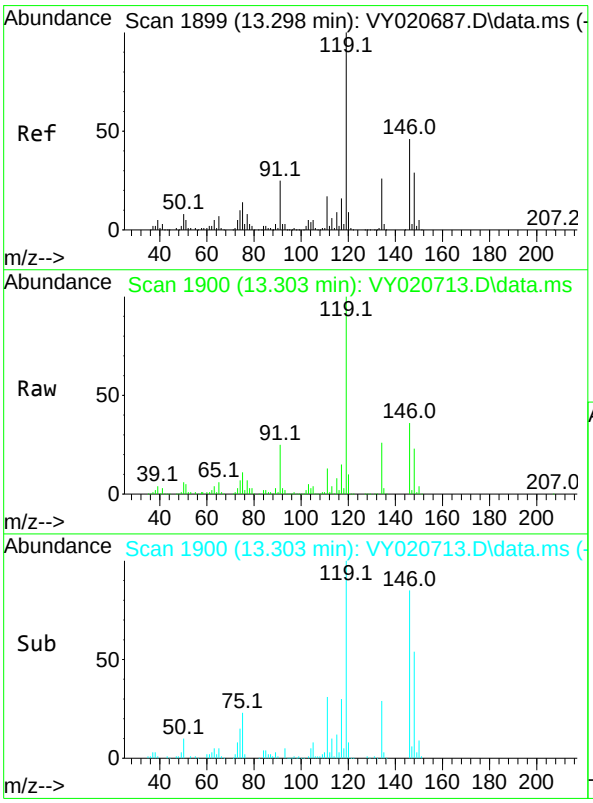

#85
sec-Butylbenzene
Concen: 50.578 ug/l
RT: 13.188 min Scan# 1
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:105 Resp: 258622

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.7 | 10.7 | 32.1 |

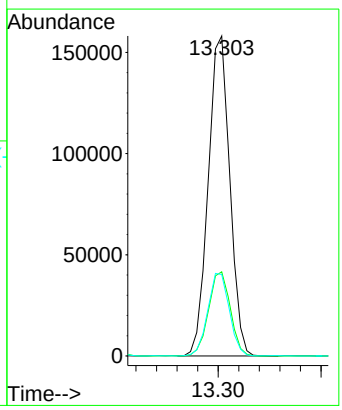


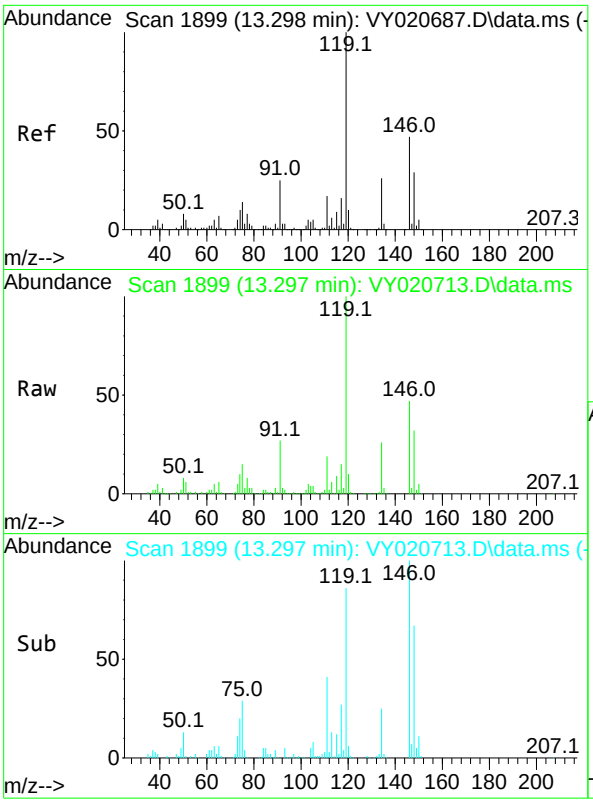




#86
p-Isopropyltoluene
Concen: 50.557 ug/l
RT: 13.303 min Scan# 1900
Delta R.T. 0.005 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:119 Resp: 230385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 13.4 | 40.2 |
| 91 | 25.8 | 12.9 | 38.6 |



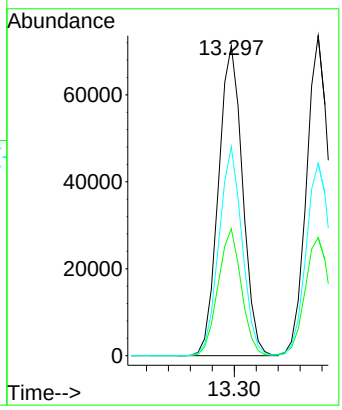


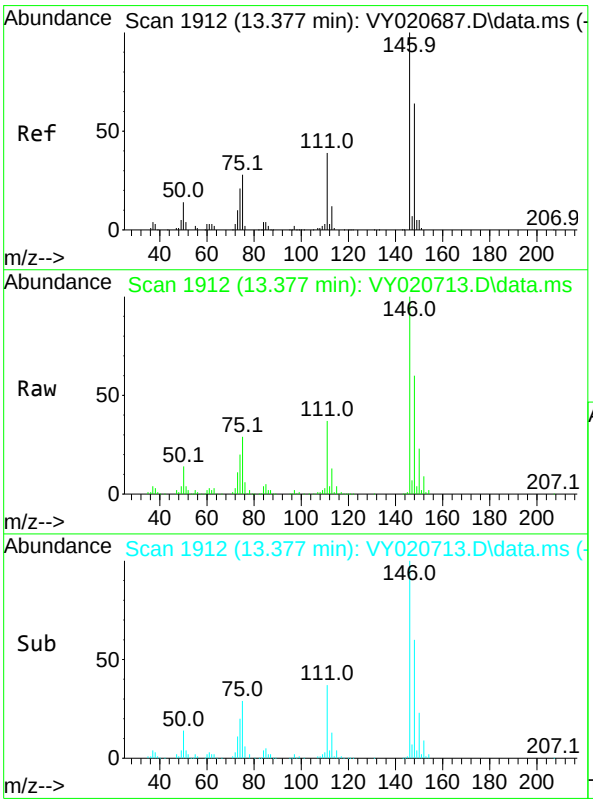

#87
1,3-Dichlorobenzene
Concen: 49.657 ug/l
RT: 13.297 min Scan# 1
Delta R.T. -0.001 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:146 Resp: 108941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.6 | 19.3 | 57.8 |
| 148 | 64.8 | 31.1 | 93.5 |

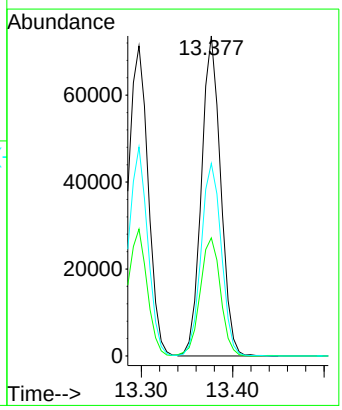


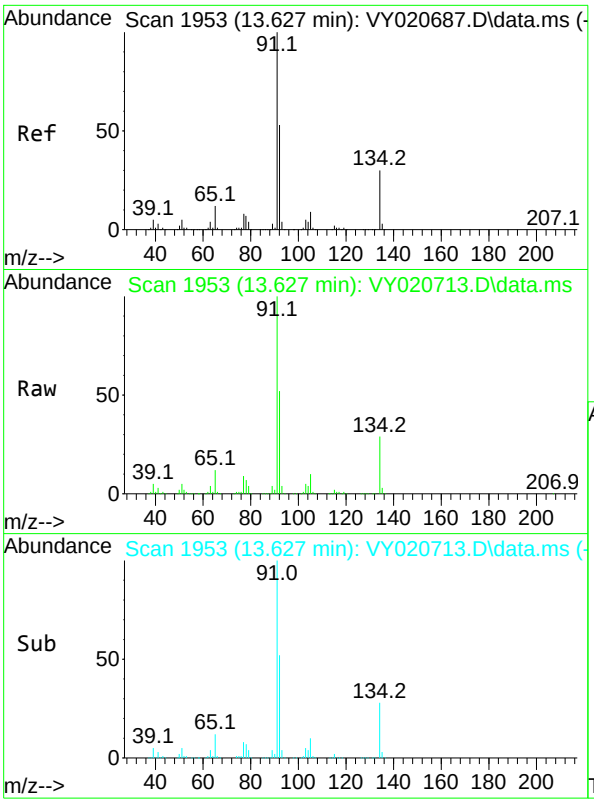




#88
1,4-Dichlorobenzene
Concen: 49.305 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:146 Resp: 107603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.0 | 19.7 | 59.0 |
| 148 | 63.3 | 32.8 | 98.3 |



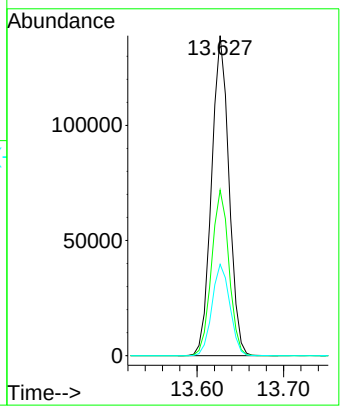


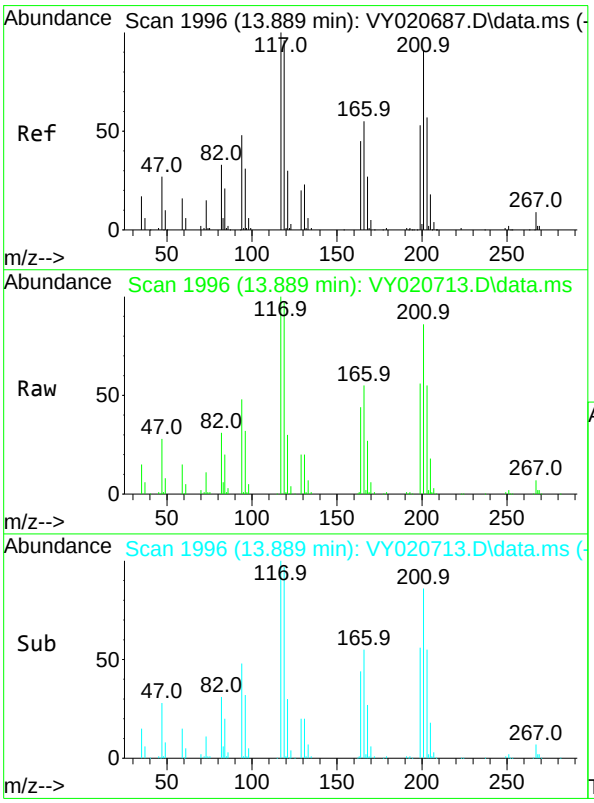

#89
n-Butylbenzene
Concen: 51.082 ug/l
RT: 13.627 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion: 91 Resp: 194314

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 51.7 | 26.1 | 78.2 |
| 134 | 29.2 | 14.8 | 44.4 |

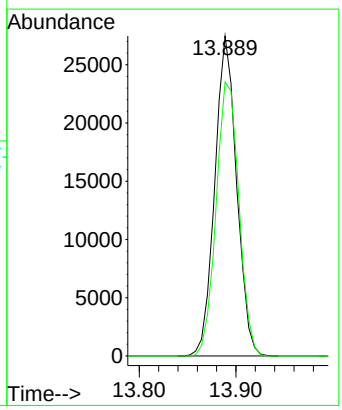


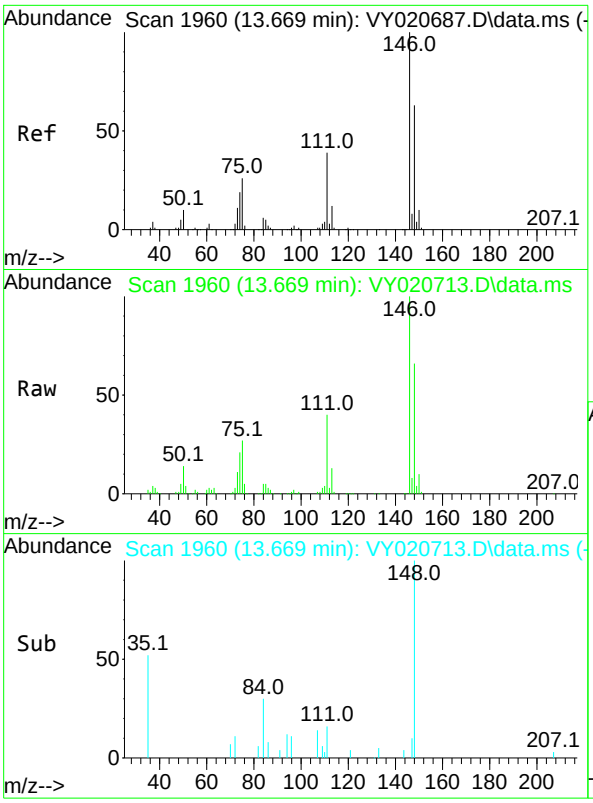




#90
Hexachloroethane
Concen: 49.619 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:117 Resp: 42996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 89.5 | 44.9 | 134.7 |



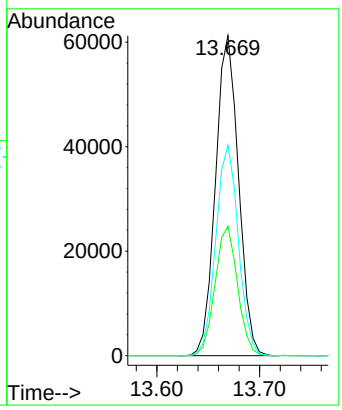


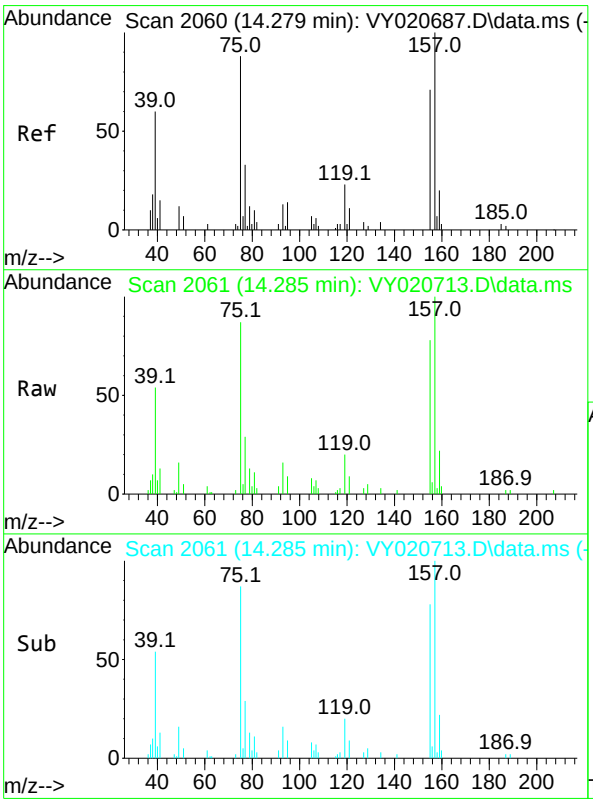

#91
1,2-Dichlorobenzene
Concen: 50.573 ug/l
RT: 13.669 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:146 Resp: 95132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.5 | 20.3 | 60.8 |
| 148 | 64.7 | 31.9 | 95.5 |

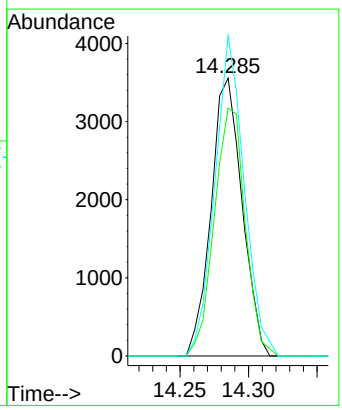


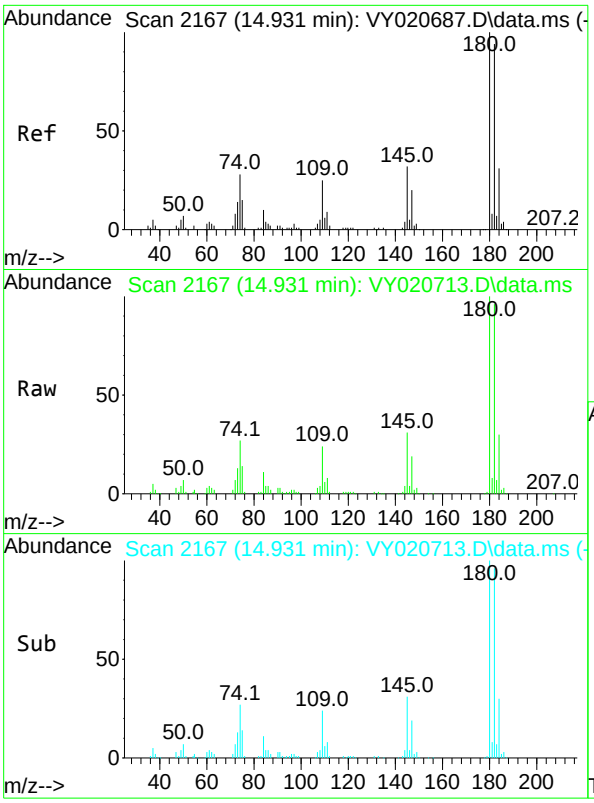




#92
1,2-Dibromo-3-Chloropropane
Concen: 46.197 ug/l
RT: 14.285 min Scan# 2061
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion: 75 Resp: 5601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.6 | 43.4 | 130.2 |
| 157 | 109.3 | 58.6 | 175.7 |



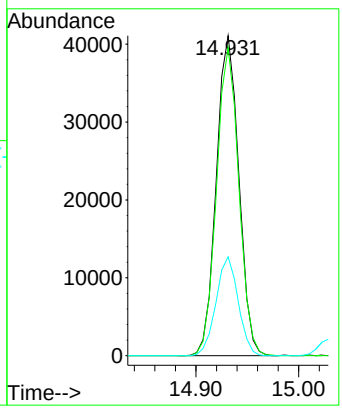


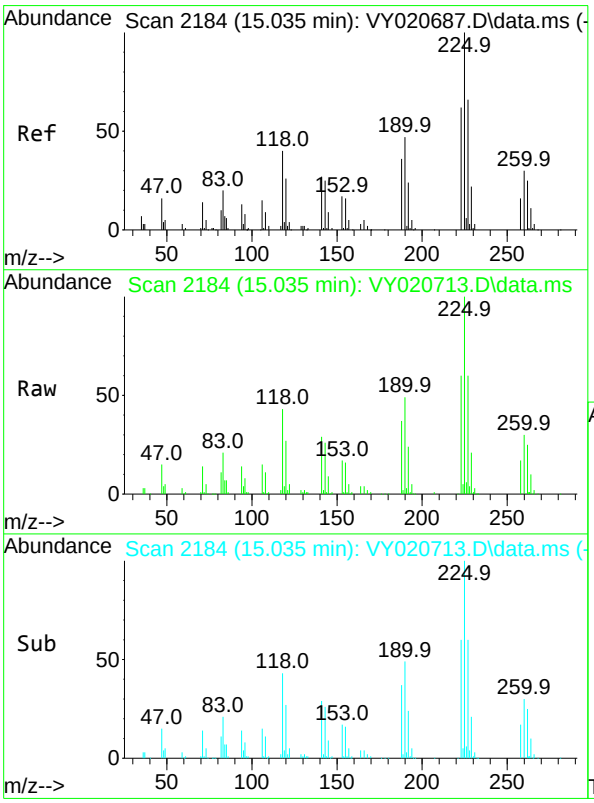

#93
1,2,4-Trichlorobenzene
Concen: 52.197 ug/l
RT: 14.931 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:180 Resp: 62409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.3 | 47.9 | 143.7 |
| 145 | 30.5 | 15.6 | 46.8 |

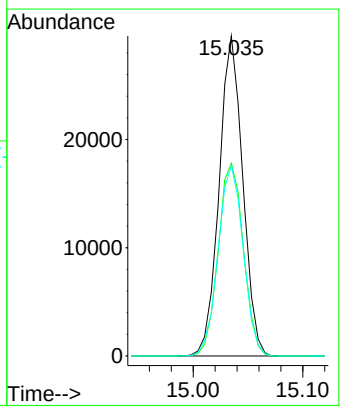


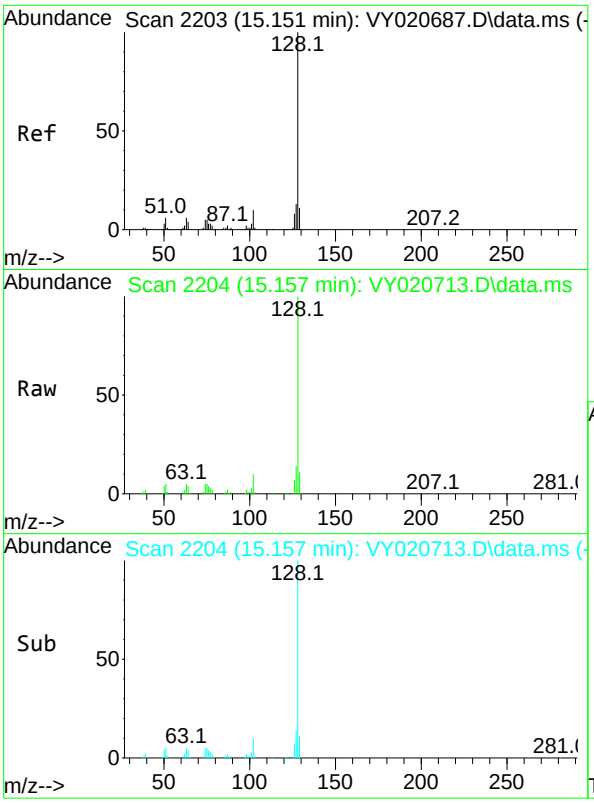




#94
Hexachlorobutadiene
Concen: 50.811 ug/l
RT: 15.035 min Scan# 2184
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:225 Resp: 44277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.9 | 31.3 | 93.8 |
| 227 | 63.1 | 32.1 | 96.5 |



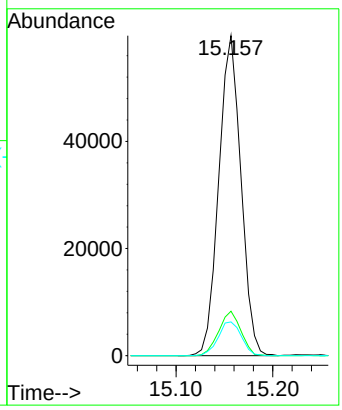


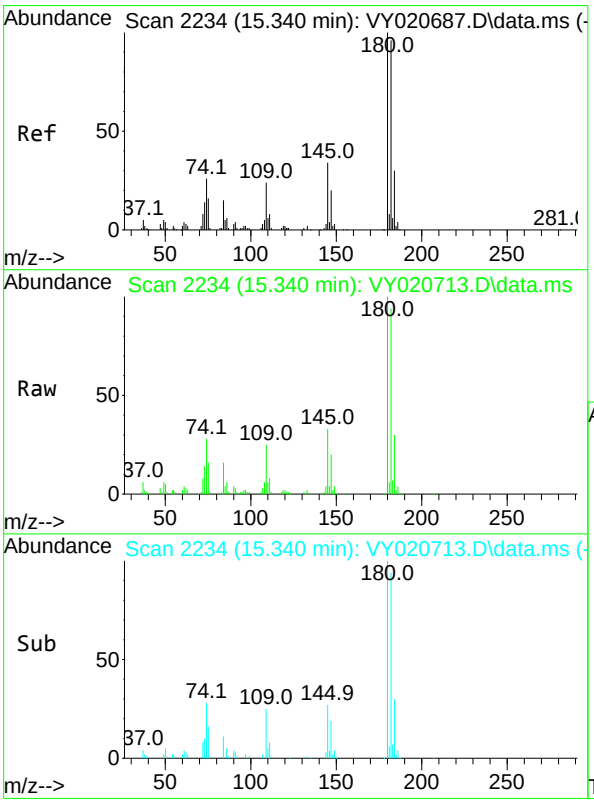

#95
Naphthalene
Concen: 49.600 ug/l
RT: 15.157 min Scan# 2
Delta R.T. 0.006 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

**Instrument :**
MSVOA_Y
**ClientSampleId :**
ICVVY122624

Tgt Ion:128 Resp: 94983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 14.0 | 10.7 | 16.1 |
| 129 | 11.1 | 8.6 | 12.8 |

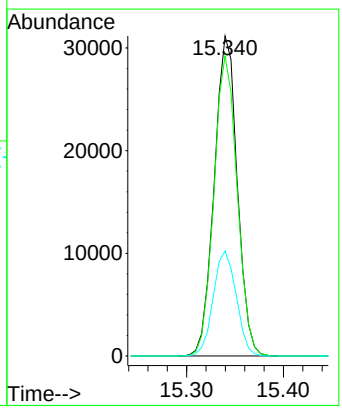



#96
1,2,3-Trichlorobenzene
Concen: 51.643 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. -0.000 min
Lab File: VY020713.D
Acq: 26 Dec 2024 12:51

Tgt Ion:180 Resp: 51411

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.7 | 47.4 | 142.2 |
| 145 | 32.9 | 16.7 | 50.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020715.D
Acq On : 26 Dec 2024 14:32
Operator : SY/MD
Sample : VY1226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Quant Time: Dec 26 16:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.720 | 168 | 120044 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 165739 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 139363 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 74040 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 54084 | 55.004 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 110.000% | | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 47566 | 52.103 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 104.200% | | | | |
| 50) Toluene-d8 | 10.115 | 98 | 183793 | 50.606 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 101.220% | | | | |
| 62) 4-Bromofluorobenzene | 12.414 | 95 | 62876 | 51.825 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 103.660% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 18836 | 19.935 | ug/l | | 98 |
| 3) Chloromethane | 2.074 | 50 | 6770 | 19.212 | ug/l | | 93 |
| 4) Vinyl Chloride | 2.214 | 62 | 7714 | 17.668 | ug/l | | 89 |
| 5) Bromomethane | 2.598 | 94 | 6509 | 19.745 | ug/l | | 90 |
| 6) Chloroethane | 2.745 | 64 | 4700 | 17.944 | ug/l | | 96 |
| 7) Trichlorofluoromethane | 3.074 | 101 | 32224 | 19.192 | ug/l | | 99 |
| 8) Diethyl Ether | 3.464 | 74 | 8143 | 20.381 | ug/l | | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 3.830 | 101 | 18072 | 19.606 | ug/l | | 98 |
| 10) Methyl Iodide | 4.019 | 142 | 17304 | 17.167 | ug/l | | 97 |
| 11) Tert butyl alcohol | 4.860 | 59 | 7980 | 119.075 | ug/l | # | 84 |
| 12) 1,1-Dichloroethene | 3.806 | 96 | 15688 | 19.122 | ug/l | | 87 |
| 13) Acrolein | 3.659 | 56 | 2794 | 135.930 | ug/l | | 97 |
| 14) Allyl chloride | 4.397 | 41 | 18840 | 19.623 | ug/l | | 96 |
| 15) Acrylonitrile | 5.068 | 53 | 15561 | 100.820 | ug/l | | 98 |
| 16) Acetone | 3.885 | 43 | 11775 | 94.398 | ug/l | | 96 |
| 17) Carbon Disulfide | 4.117 | 76 | 37004 | 18.386 | ug/l | | 99 |
| 18) Methyl Acetate | 4.397 | 43 | 6995 | 20.720 | ug/l | | 98 |
| 19) Methyl tert-butyl Ether | 5.135 | 73 | 44886 | 19.629 | ug/l | | 98 |
| 20) Methylene Chloride | 4.629 | 84 | 16773 | 20.675 | ug/l | | 89 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 16777 | 18.976 | ug/l | | 91 |
| 22) Diisopropyl ether | 6.031 | 45 | 39231 | 20.101 | ug/l | | 98 |
| 23) Vinyl Acetate | 5.970 | 43 | 118423 | 101.585 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 5.933 | 63 | 28874 | 19.732 | ug/l | | 97 |
| 25) 2-Butanone | 6.909 | 43 | 17840 | 105.875 | ug/l | | 98 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 34412 | 19.214 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 6.909 | 96 | 20436 | 19.302 | ug/l | | 99 |
| 28) Bromochloromethane | 7.256 | 49 | 6829 | 17.648 | ug/l | | 98 |
| 29) Tetrahydrofuran | 7.268 | 42 | 10899 | 105.377 | ug/l | | 97 |
| 30) Chloroform | 7.433 | 83 | 37760 | 20.060 | ug/l | | 94 |
| 31) Cyclohexane | 7.713 | 56 | 24445 | 19.354 | ug/l | # | 90 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 39114 | 19.385 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 23598 | 19.569 | ug/l | | 98 |
| 37) Ethyl Acetate | 7.000 | 43 | 8566 | 21.556 | ug/l | | 98 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 39187 | 19.734 | ug/l | | 99 |
| 39) Methylcyclohexane | 9.116 | 83 | 30514 | 19.742 | ug/l | | 96 |
| 40) Benzene | 8.091 | 78 | 69851 | 19.987 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020715.D
Acq On : 26 Dec 2024 14:32
Operator : SY/MD
Sample : VY1226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Quant Time: Dec 26 16:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.268 | 41 | 11882 | 59.194 ug/l # | 28 |
| 42) 1,2-Dichloroethane | 8.165 | 62 | 22857 | 20.396 ug/l | 99 |
| 43) Isopropyl Acetate | 8.207 | 43 | 16685 | 19.754 ug/l # | 90 |
| 44) Trichloroethene | 8.872 | 130 | 20214 | 19.365 ug/l | 96 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 14072 | 19.891 ug/l | 96 |
| 46) Dibromomethane | 9.238 | 93 | 9956 | 20.339 ug/l | 98 |
| 47) Bromodichloromethane | 9.433 | 83 | 27211 | 19.608 ug/l | 99 |
| 48) Methyl methacrylate | 9.231 | 41 | 7854 | 19.912 ug/l | 96 |
| 49) 1,4-Dioxane | 9.238 | 88 | 2078 | 445.671 ug/l | 95 |
| 51) 4-Methyl-2-Pentanone | 10.006 | 43 | 42819 | 105.031 ug/l | 100 |
| 52) Toluene | 10.176 | 92 | 48544 | 20.266 ug/l | 98 |
| 53) t-1,3-Dichloropropene | 10.402 | 75 | 24065 | 19.744 ug/l | 99 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 26207 | 19.616 ug/l | 99 |
| 55) 1,1,2-Trichloroethane | 10.579 | 97 | 12505 | 20.014 ug/l | 94 |
| 56) Ethyl methacrylate | 10.445 | 69 | 16177 | 19.708 ug/l | 97 |
| 57) 1,3-Dichloropropane | 10.725 | 76 | 21343 | 21.046 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 9.719 | 63 | 27555 | 96.265 ug/l | 100 |
| 59) 2-Hexanone | 10.768 | 43 | 28183 | 104.703 ug/l | 98 |
| 60) Dibromochloromethane | 10.920 | 129 | 19953 | 19.763 ug/l | 97 |
| 61) 1,2-Dibromoethane | 11.024 | 107 | 11889 | 20.222 ug/l | 100 |
| 64) Tetrachloroethene | 10.652 | 164 | 19878 | 20.877 ug/l | 97 |
| 65) Chlorobenzene | 11.451 | 112 | 54119 | 19.832 ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 11.524 | 131 | 21666 | 20.493 ug/l | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 96550 | 20.244 ug/l | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 75635 | 41.573 ug/l | 97 |
| 69) o-Xylene | 11.963 | 106 | 35970 | 20.693 ug/l | 98 |
| 70) Styrene | 11.975 | 104 | 59026 | 20.228 ug/l | 99 |
| 71) Bromoform | 12.139 | 173 | 12535 | 20.623 ug/l # | 99 |
| 73) Isopropylbenzene | 12.261 | 105 | 101462 | 19.780 ug/l | 99 |
| 74) N-amyl acetate | 12.079 | 43 | 14718 | 20.191 ug/l | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 13746 | 20.903 ug/l | 96 |
| 76) 1,2,3-Trichloropropane | 12.566 | 75 | 19258 | 40.896 ug/l # | 100 |
| 77) Bromobenzene | 12.536 | 156 | 22761 | 19.276 ug/l | 99 |
| 78) n-propylbenzene | 12.603 | 91 | 114949 | 19.993 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.688 | 91 | 65099 | 19.862 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 84854 | 19.855 ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.310 | 75 | 4908 | 20.601 ug/l | 98 |
| 82) 4-Chlorotoluene | 12.786 | 91 | 67579 | 19.951 ug/l | 100 |
| 83) tert-Butylbenzene | 13.005 | 119 | 78963 | 19.784 ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 83301 | 20.030 ug/l | 98 |
| 85) sec-Butylbenzene | 13.182 | 105 | 107364 | 19.960 ug/l | 100 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 94876 | 19.792 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 45455 | 19.696 ug/l | 98 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 45797 | 19.948 ug/l | 98 |
| 89) n-Butylbenzene | 13.627 | 91 | 79827 | 19.949 ug/l | 98 |
| 90) Hexachloroethane | 13.889 | 117 | 17599 | 19.307 ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 13.670 | 146 | 40158 | 20.294 ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 2581 | 20.237 ug/l | 94 |
| 93) 1,2,4-Trichlorobenzene | 14.926 | 180 | 23946 | 19.039 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 18496 | 20.177 ug/l | 98 |
| 95) Naphthalene | 15.151 | 128 | 40300 | 20.005 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.340 | 180 | 21103 | 20.151 ug/l | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020715.D
Acq On : 26 Dec 2024 14:32
Operator : SY/MD
Sample : VY1226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Quant Time: Dec 26 16:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

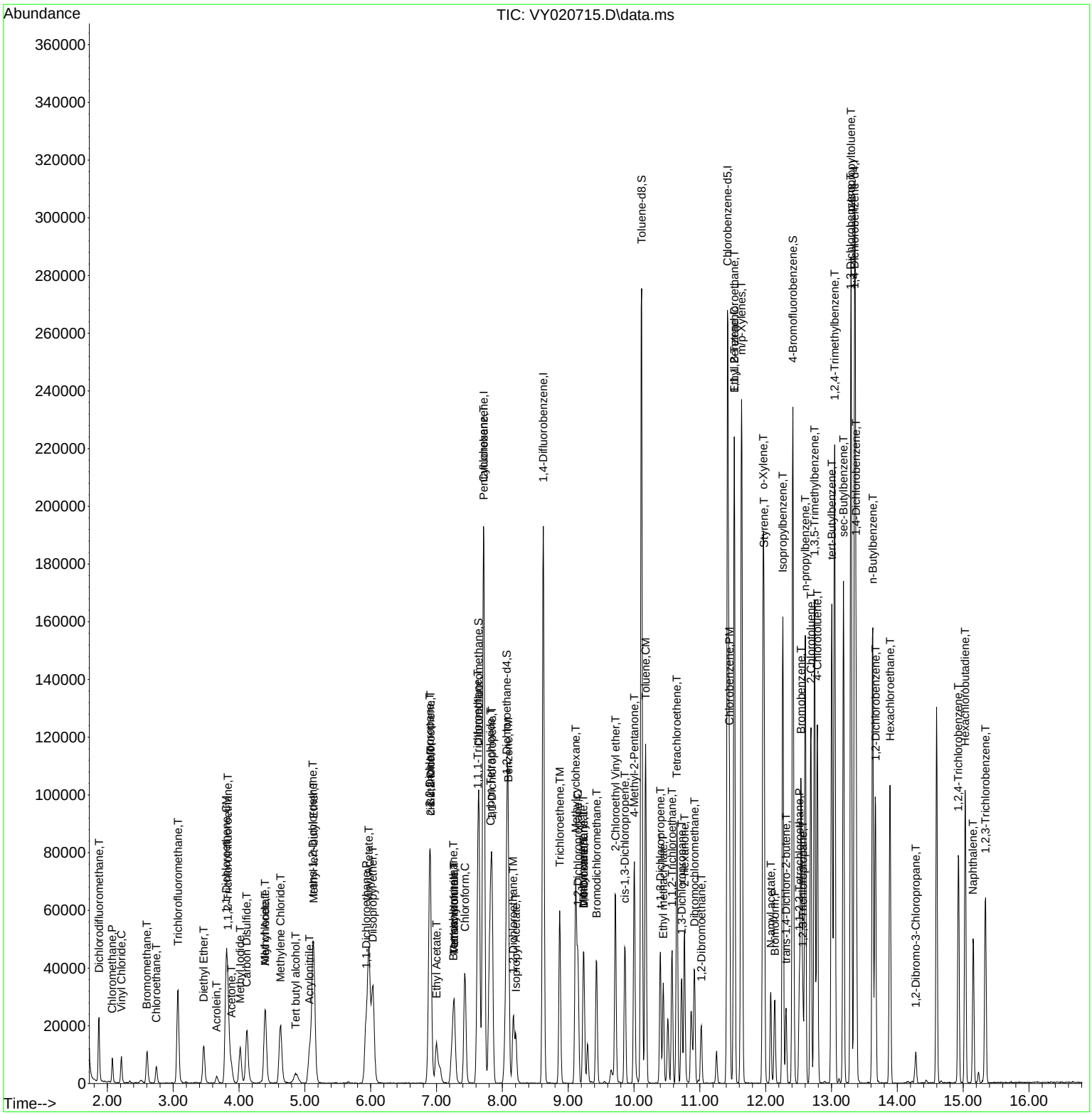
(#) = qualifier out of range (m) = manual integration (+) = signals summed

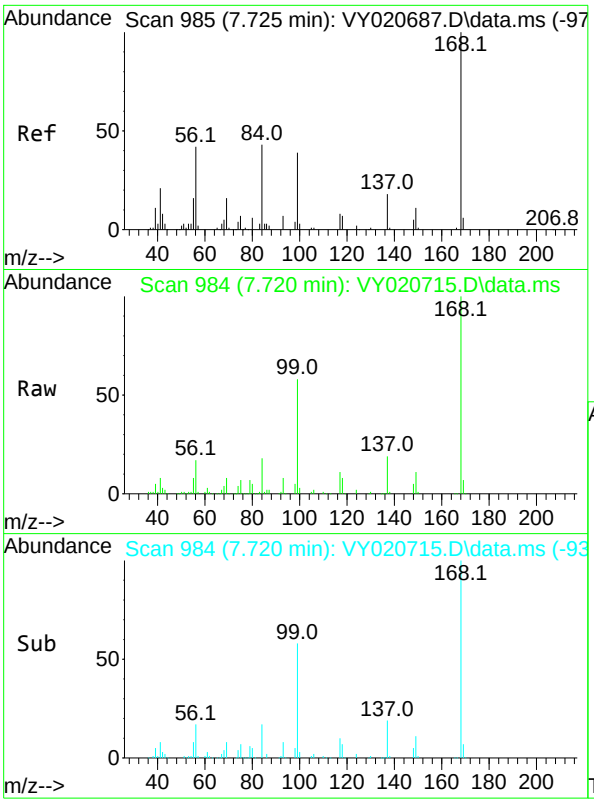
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020715.D
Acq On : 26 Dec 2024 14:32
Operator : SY/MD
Sample : VY1226SBS01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Quant Time: Dec 26 16:19:58 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration



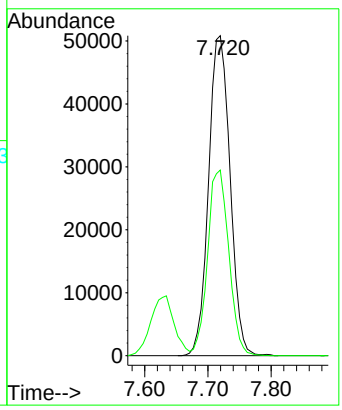


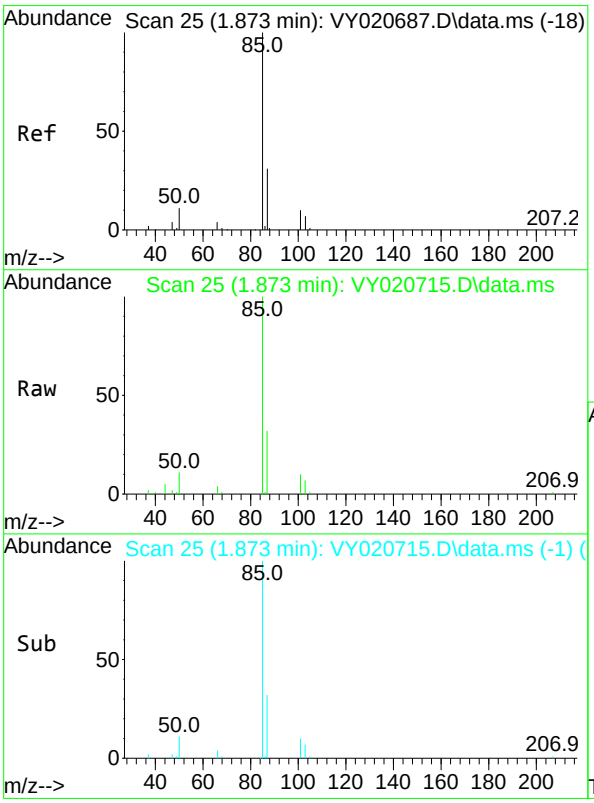

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.720 min Scan# 9
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:168 Resp: 120044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.0 | 43.8 | 65.6 |

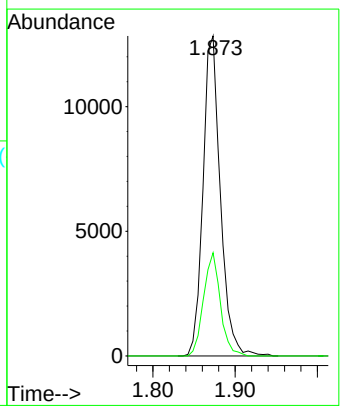


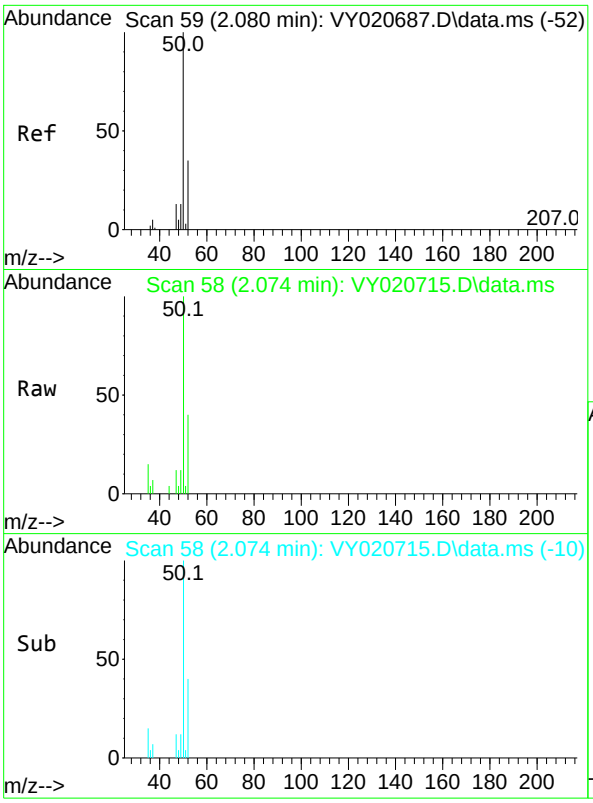




#2
Dichlorodifluoromethane
Concen: 19.935 ug/l
RT: 1.873 min Scan# 25
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 85 Resp: 18836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.3 | 15.4 | 46.4 |



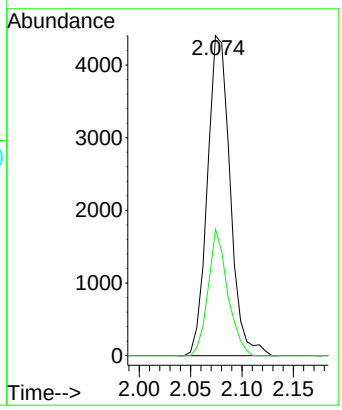


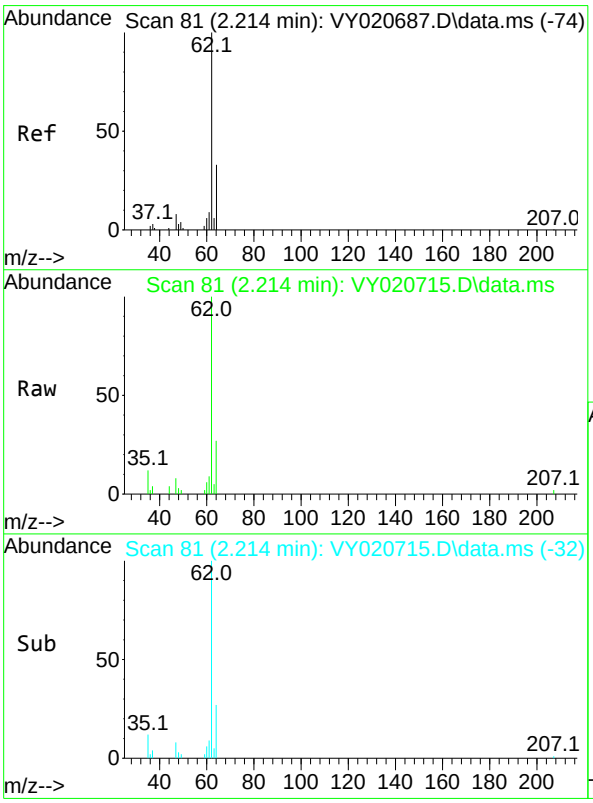

#3
Chloromethane
Concen: 19.212 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 50 Resp: 6770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 39.6 | 28.2 | 42.2 |

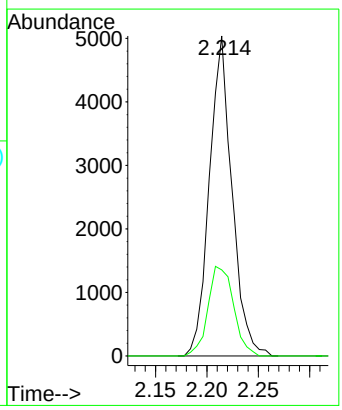


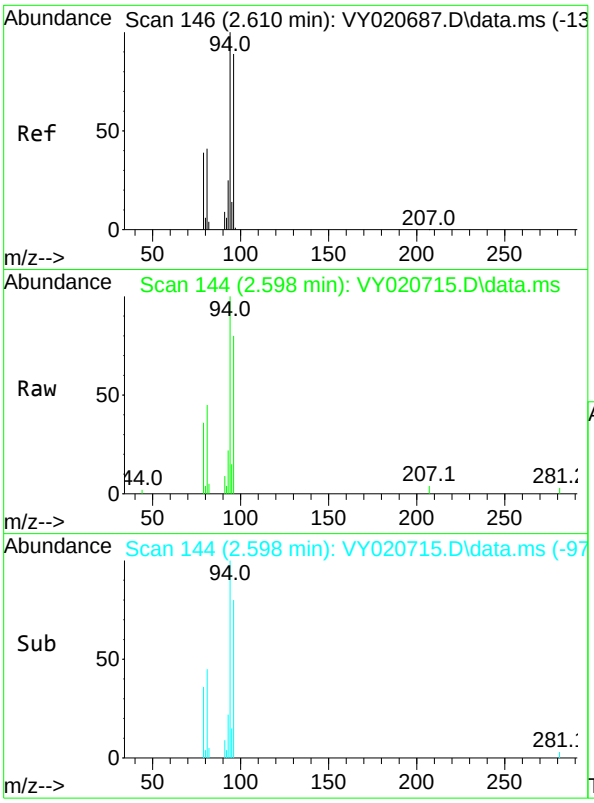




#4
Vinyl Chloride
Concen: 17.668 ug/l
RT: 2.214 min Scan# 81
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 62 Resp: 7714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 26.9 | 26.6 | 40.0 |



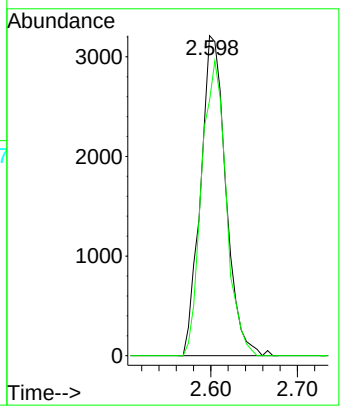


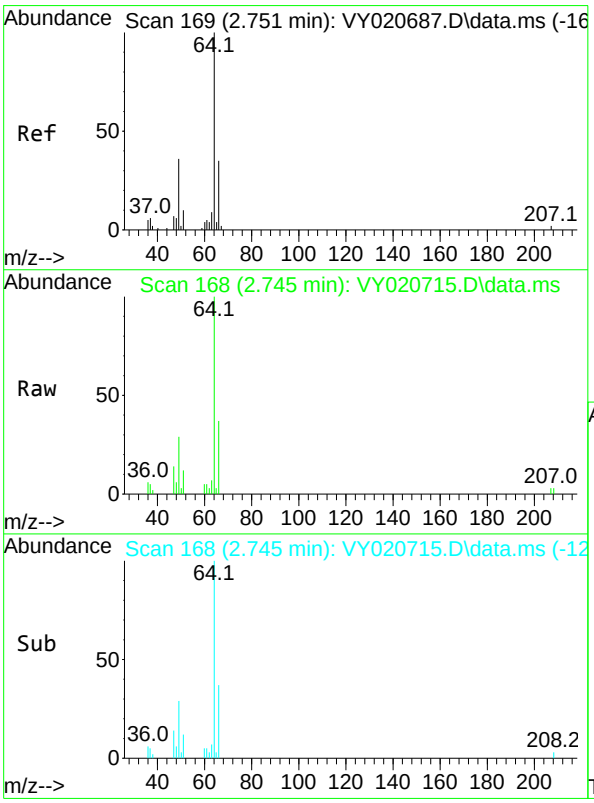

#5
Bromomethane
Concen: 19.745 ug/l
RT: 2.598 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 94 Resp: 6509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 79.7 | 71.0 | 106.6 |

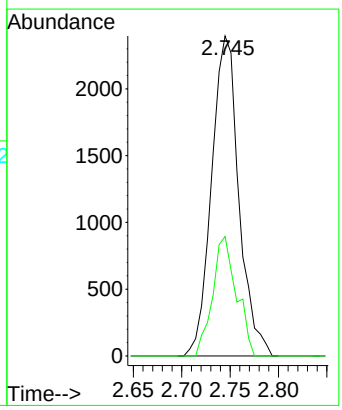


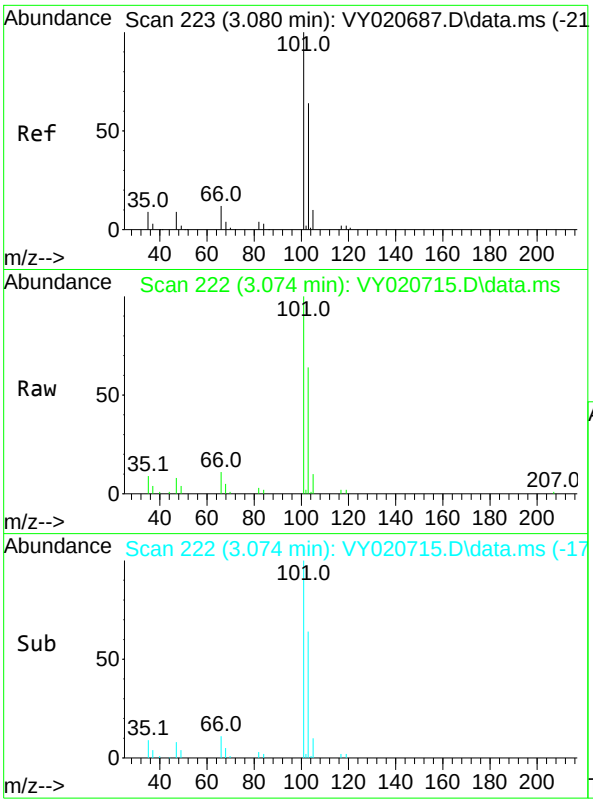




#6
Chloroethane
Concen: 17.944 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 64 Resp: 4700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 37.4 | 27.8 | 41.8 |



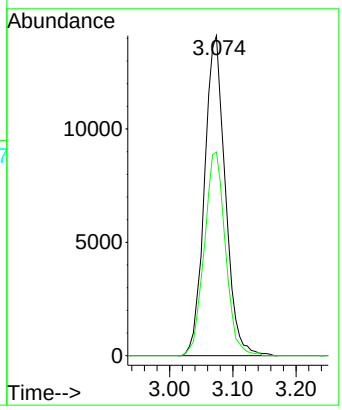


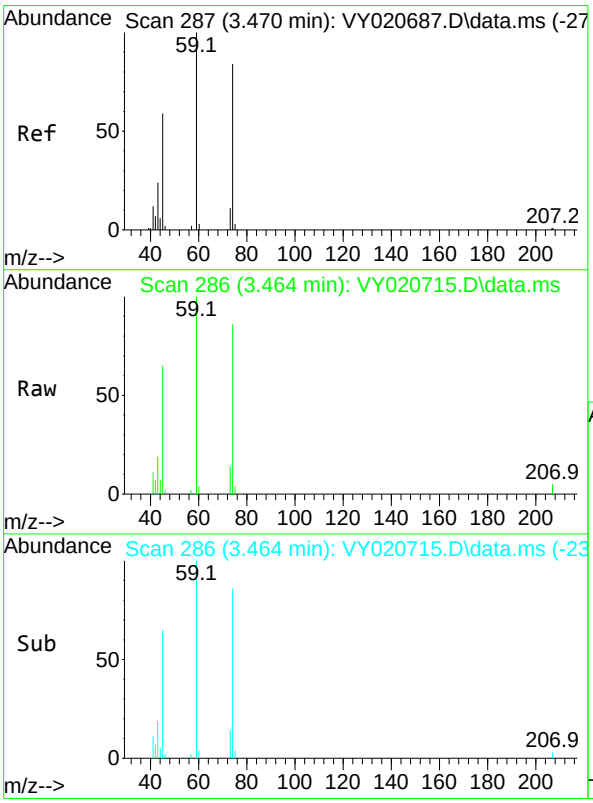

#7
Trichlorofluoromethane
Concen: 19.192 ug/l
RT: 3.074 min Scan# 2
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:101 Resp: 32224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 51.4 | 77.0 |

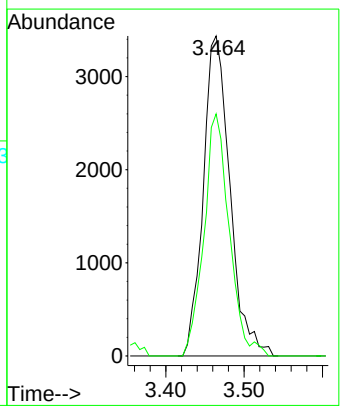


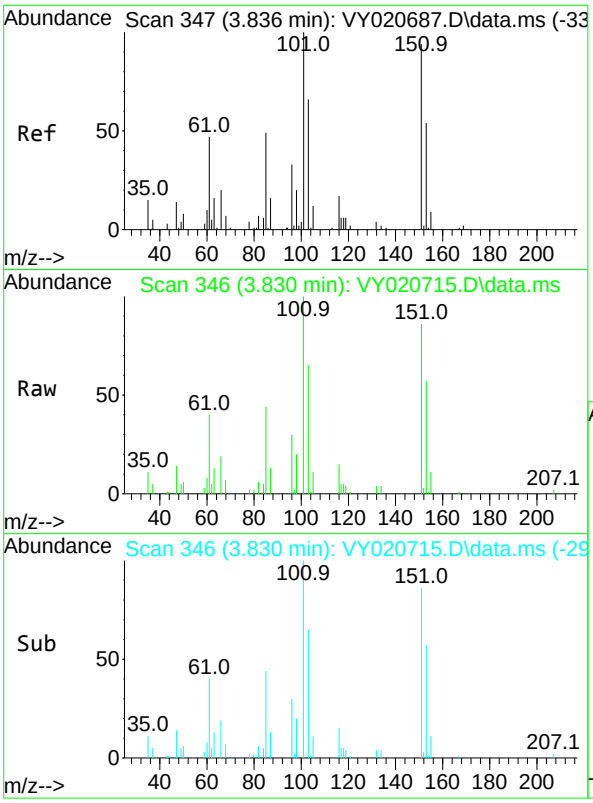




#8
Diethyl Ether
Concen: 20.381 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 74 Resp: 8143

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 71.7 | 35.8 | 107.4 |



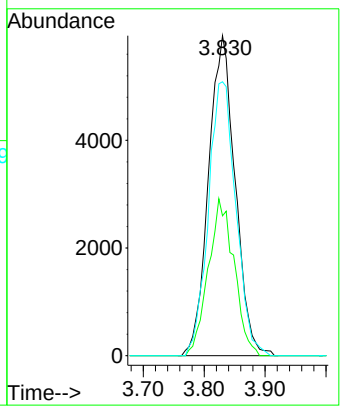


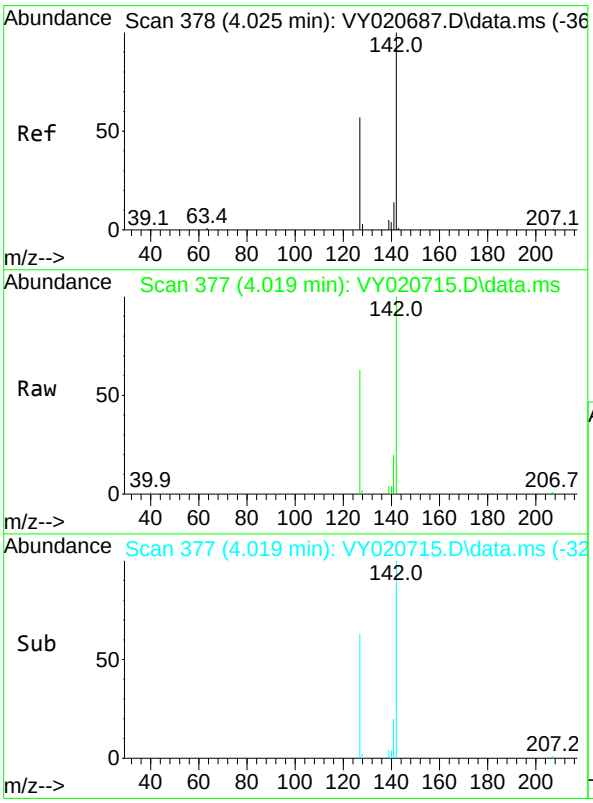

#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.606 ug/l
RT: 3.830 min Scan# 34
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:101 Resp: 18072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 47.5 | 38.2 | 57.2 |
| 151 | 88.4 | 68.4 | 102.6 |

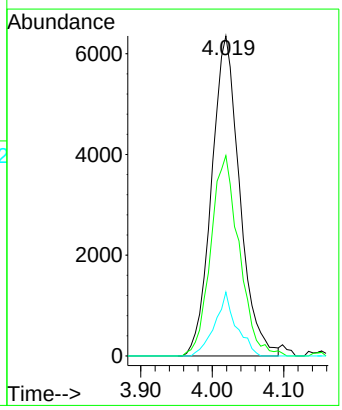


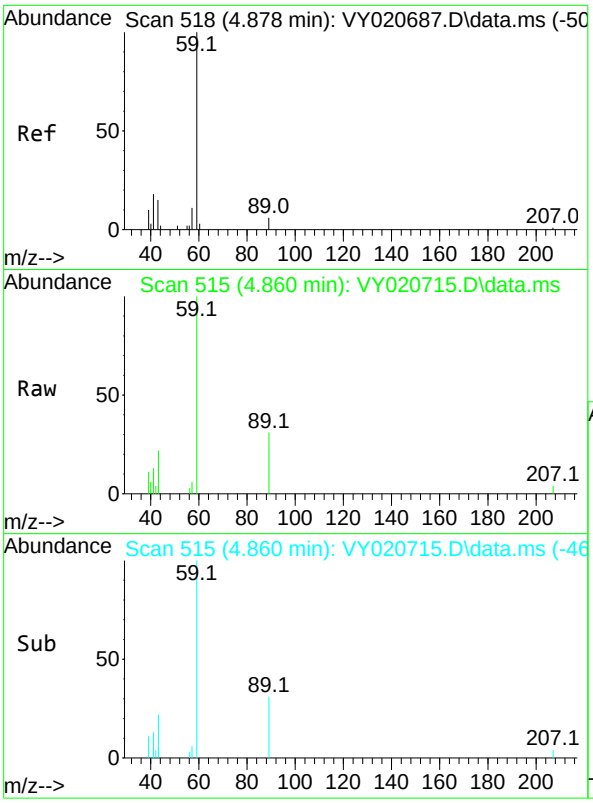




#10
Methyl Iodide
Concen: 17.167 ug/l
RT: 4.019 min Scan# 377
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:142 Resp: 17304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 63.5 | 48.8 | 73.2 |
| 141 | 15.3 | 11.9 | 17.9 |



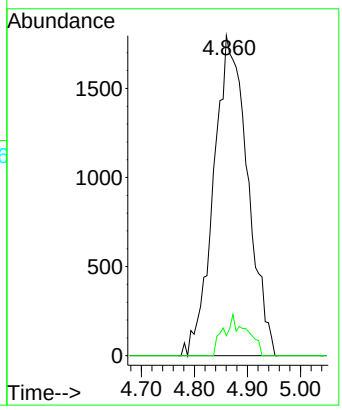


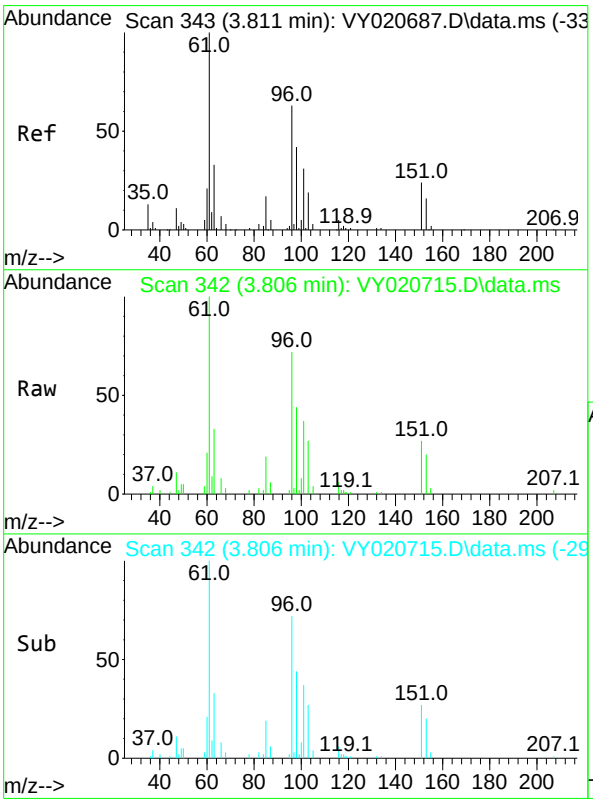

#11
Tert butyl alcohol
Concen: 119.075 ug/l
RT: 4.860 min Scan# 5
Delta R.T. -0.018 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 59 Resp: 7980

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.7 | 2.8 | 4.2# |

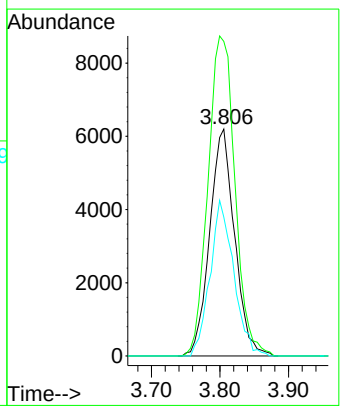


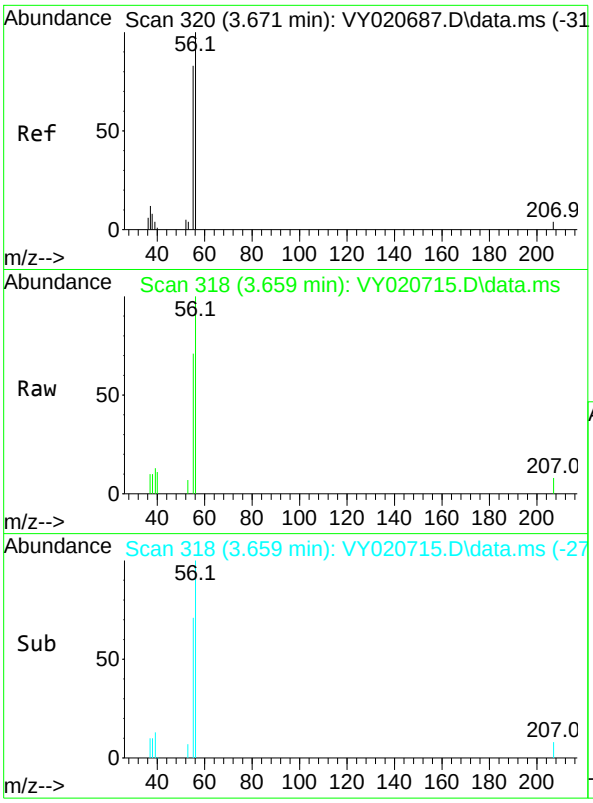




#12
1,1-Dichloroethene
Concen: 19.122 ug/l
RT: 3.806 min Scan# 342
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 96 Resp: 15688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.6 | 127.1 | 190.7 |
| 98 | 61.2 | 53.4 | 80.0 |



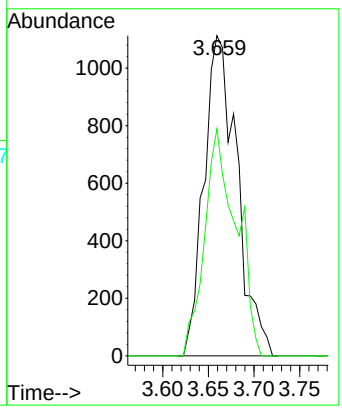


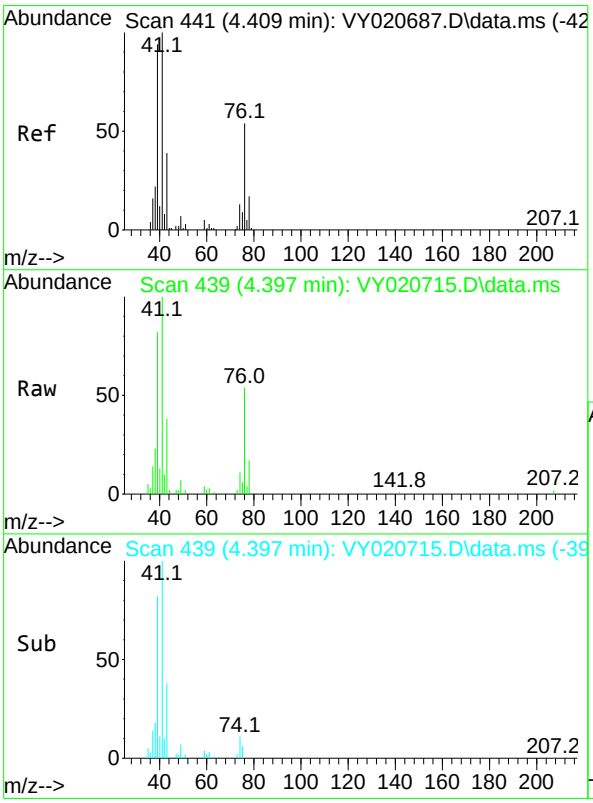

#13
Acrolein
Concen: 135.930 ug/l
RT: 3.659 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 56 Resp: 2794

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.4 | 57.0 | 85.4 |

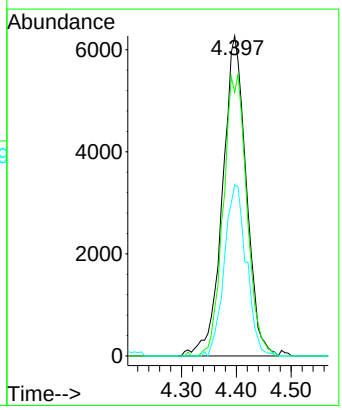


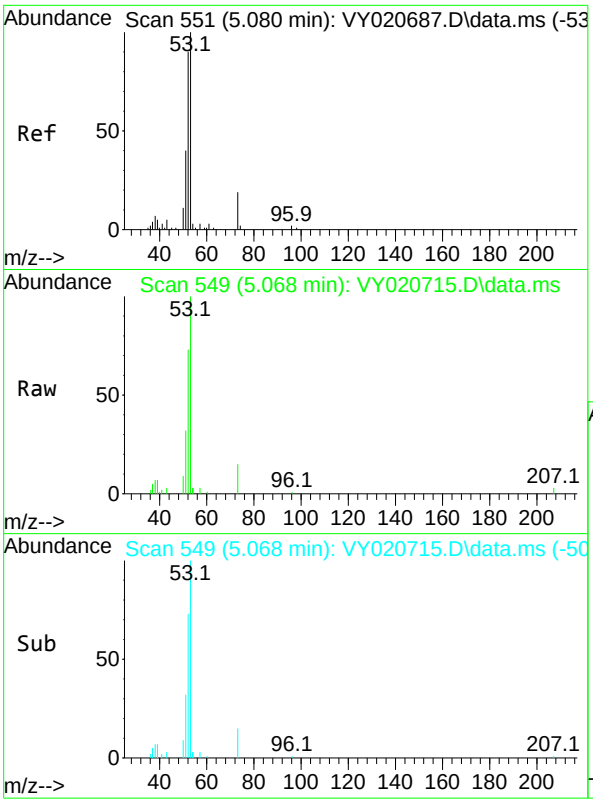




#14
Allyl chloride
Concen: 19.623 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 41 Resp: 18840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 87.1 | 73.5 | 110.3 |
| 76 | 50.0 | 41.8 | 62.8 |



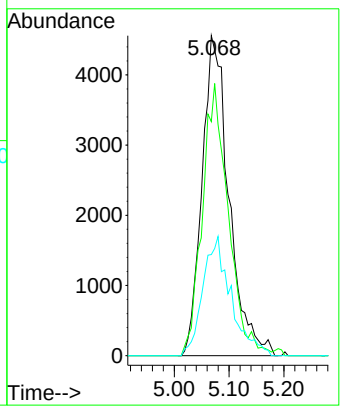


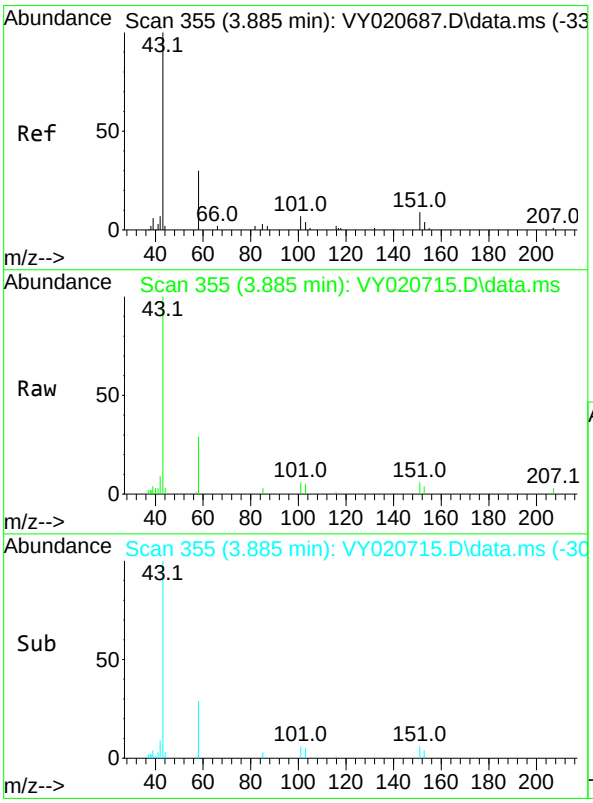

#15
Acrylonitrile
Concen: 100.820 ug/l
RT: 5.068 min Scan# 54
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 53 Resp: 15561

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.1 | 67.1 | 100.7 |
| 51 | 38.8 | 31.4 | 47.0 |

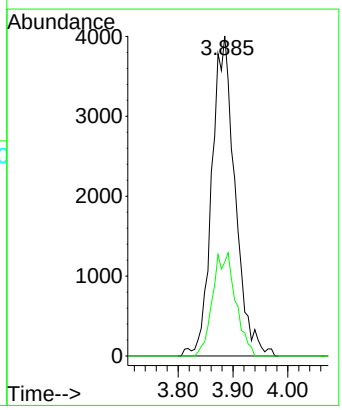


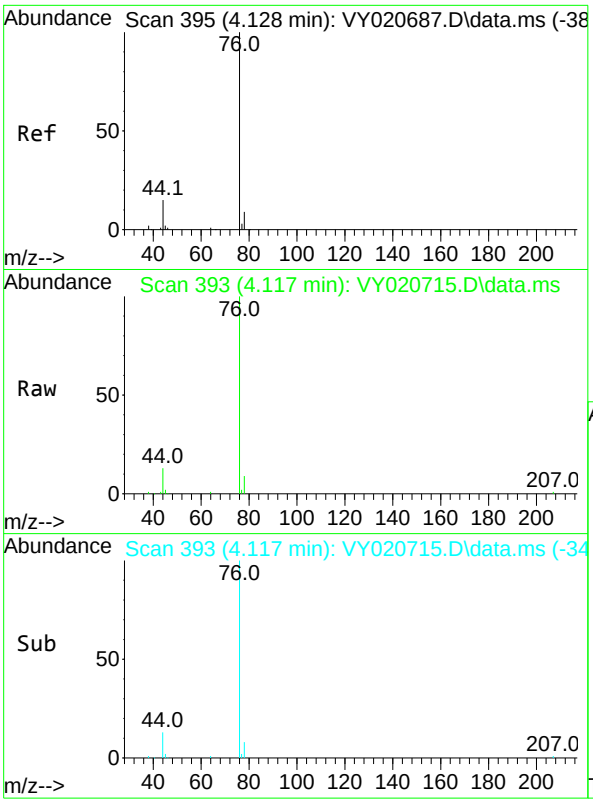




#16
Acetone
Concen: 94.398 ug/l
RT: 3.885 min Scan# 355
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 11775

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.3 | 25.0 | 37.6 |



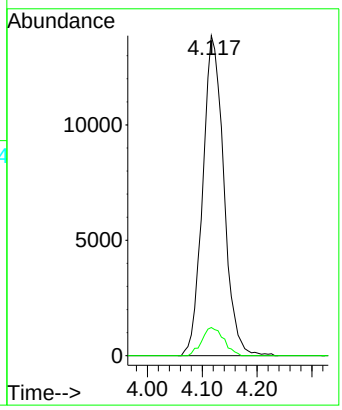


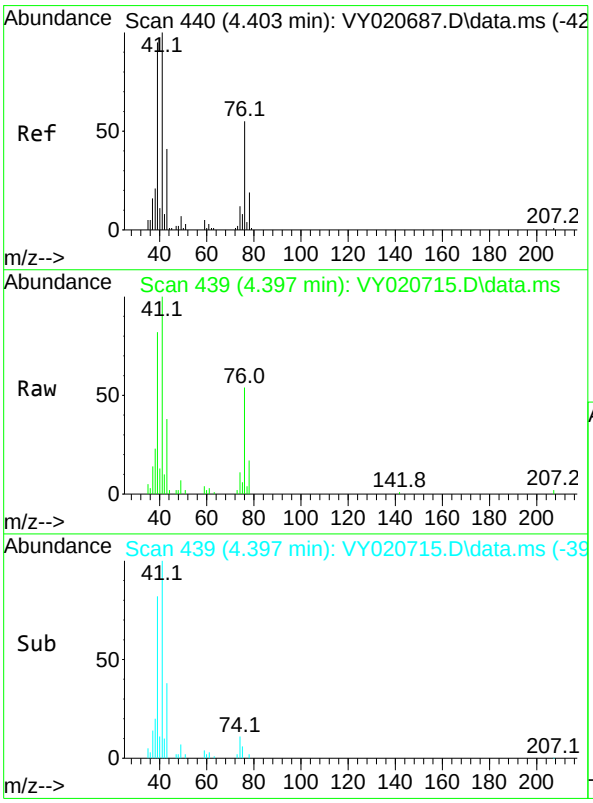

#17
Carbon Disulfide
Concen: 18.386 ug/l
RT: 4.117 min Scan# 3
Delta R.T. -0.011 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 76 Resp: 37004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 6.9 | 10.3 |

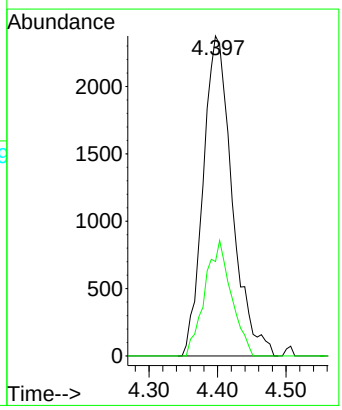


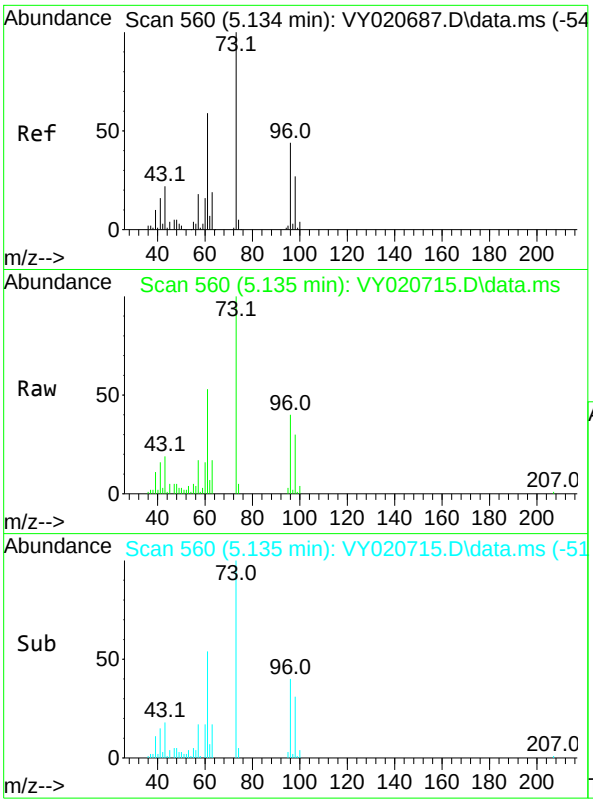




#18
Methyl Acetate
Concen: 20.720 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 6995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 32.8 | 25.3 | 37.9 |



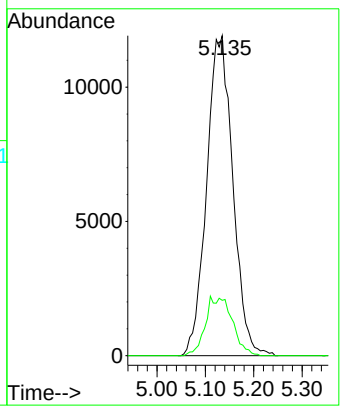


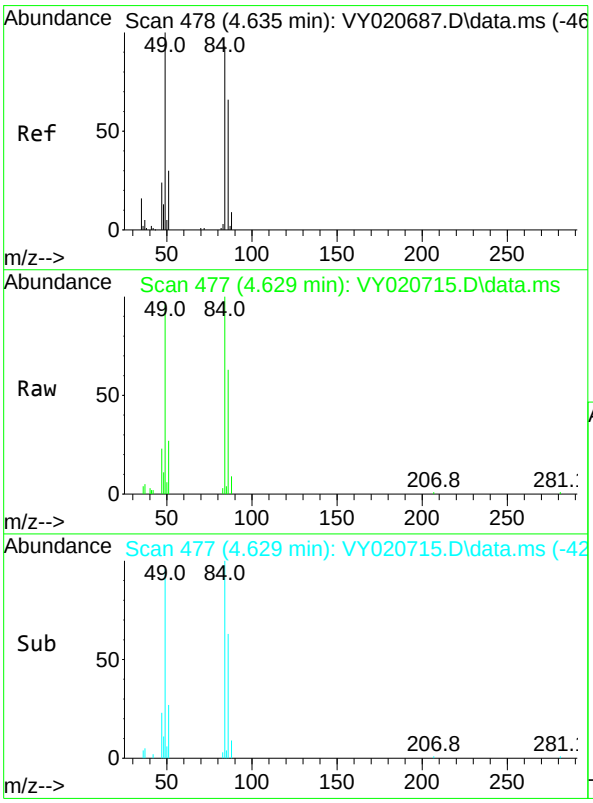

#19
Methyl tert-butyl Ether
Concen: 19.629 ug/l
RT: 5.135 min Scan# 5
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 73 Resp: 44886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 17.3 | 14.4 | 21.6 |

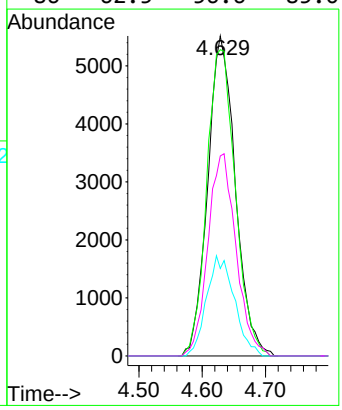


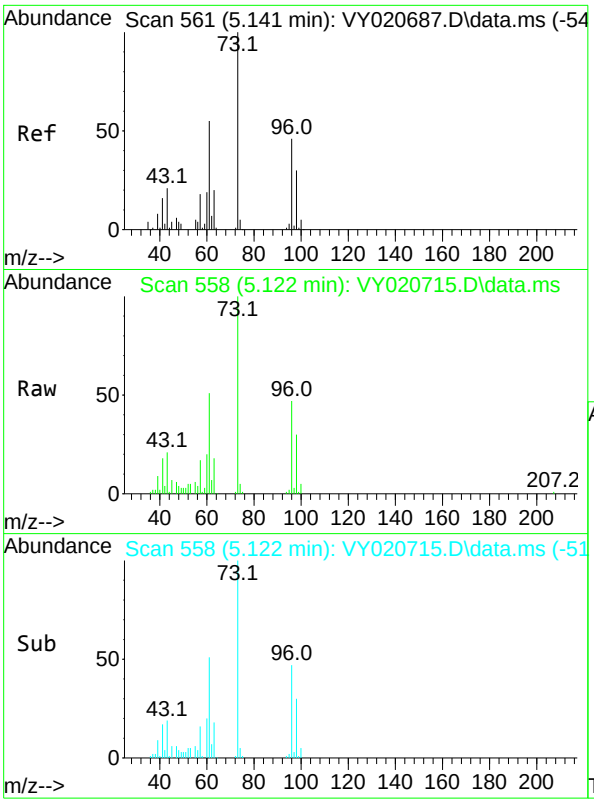




#20
Methylene Chloride
Concen: 20.675 ug/l
RT: 4.629 min Scan# 477
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 84 Resp: 16773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 95.7 | 86.4 | 129.6 |
| 51 | 27.3 | 25.5 | 38.3 |
| 86 | 62.5 | 56.6 | 85.0 |



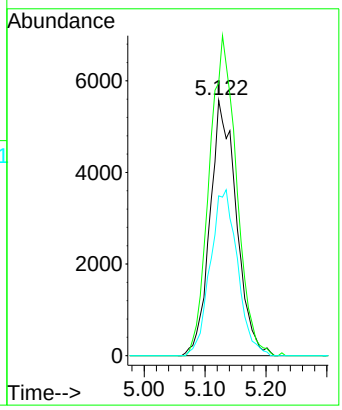


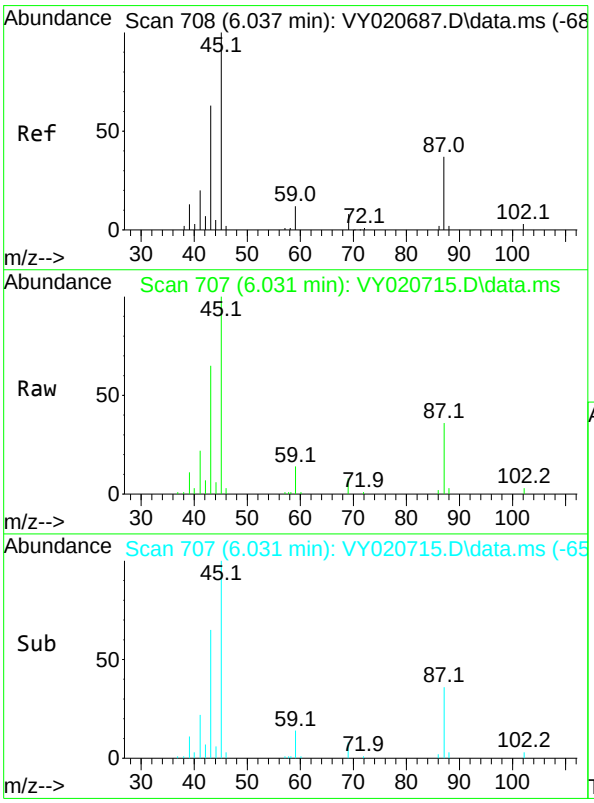

#21
trans-1,2-Dichloroethene
Concen: 18.976 ug/l
RT: 5.122 min Scan# 5
Delta R.T. -0.019 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 96 Resp: 16777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 106.8 | 96.1 | 144.1 |
| 98 | 62.6 | 52.7 | 79.1 |

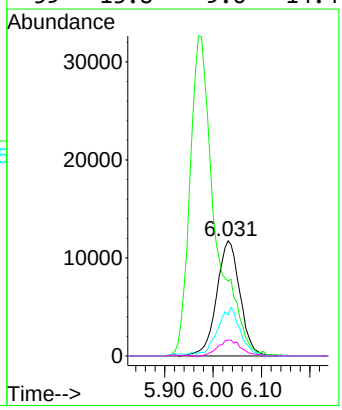


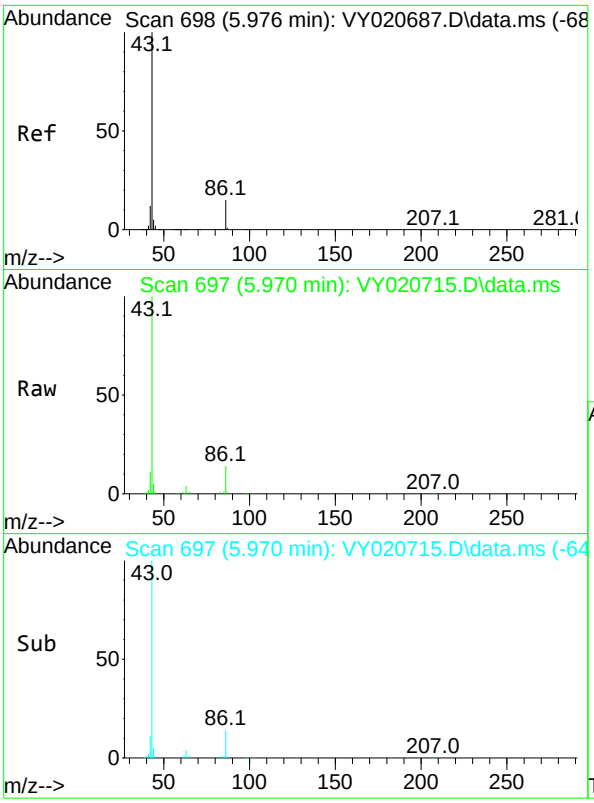




#22
Diisopropyl ether
Concen: 20.101 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 45 Resp: 39231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 64.1 | 51.3 | 76.9 |
| 87 | 35.7 | 30.6 | 46.0 |
| 59 | 13.8 | 9.6 | 14.4 |



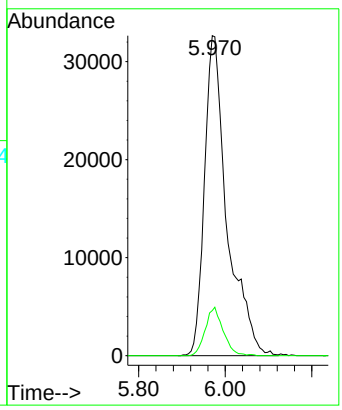


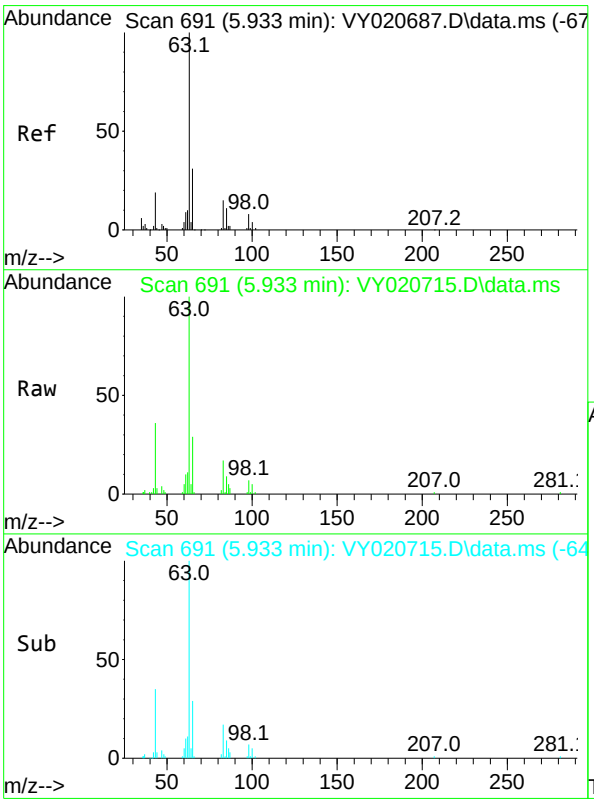

#23
Vinyl Acetate
Concen: 101.585 ug/l
RT: 5.970 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 43 Resp: 118423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 14.1 | 12.0 | 18.0 |

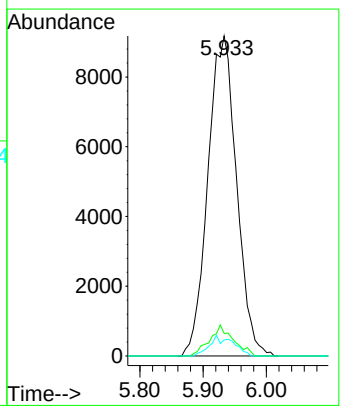


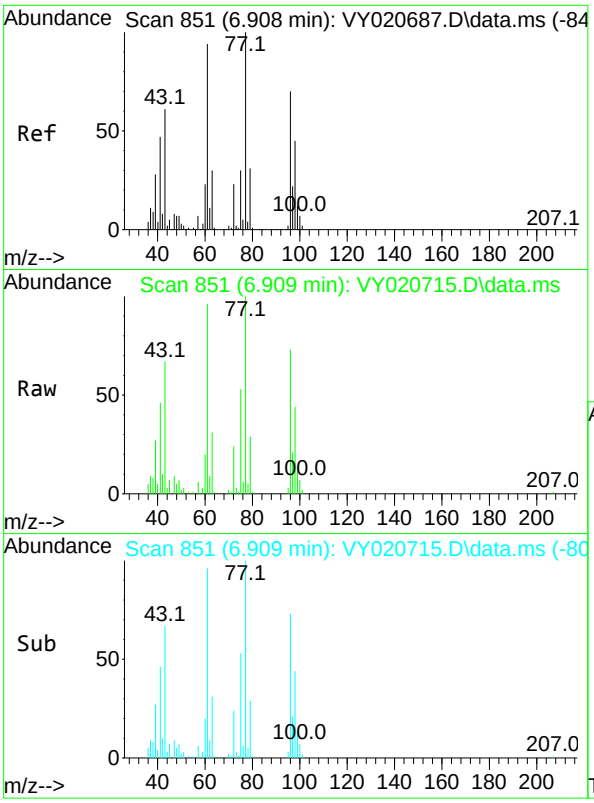




#24
1,1-Dichloroethane
Concen: 19.732 ug/l
RT: 5.933 min Scan# 691
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 63 Resp: 28874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 4.0 | 12.0 |
| 100 | 5.0 | 2.1 | 6.2 |



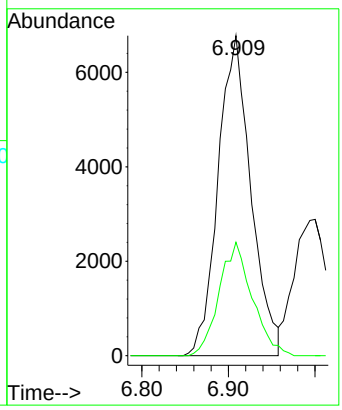


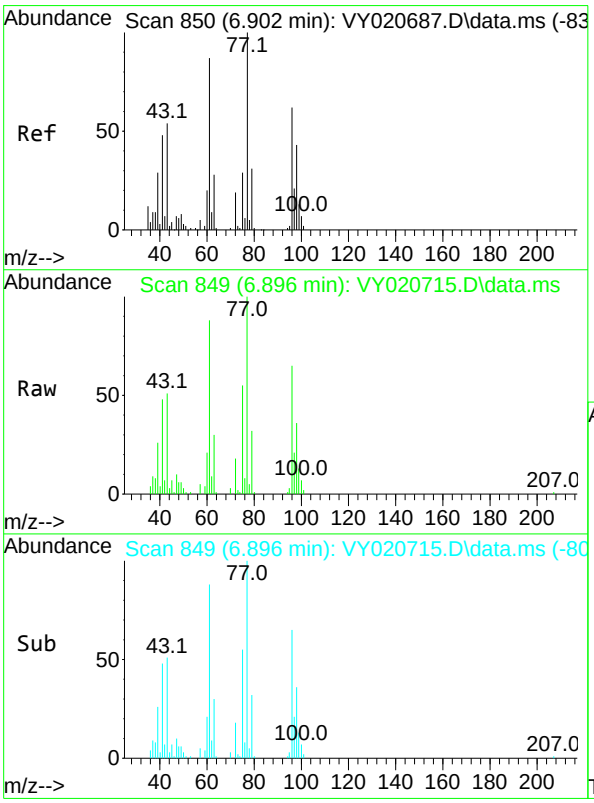

#25
2-Butanone
Concen: 105.875 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 43 Resp: 17840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 35.5 | 29.5 | 44.3 |

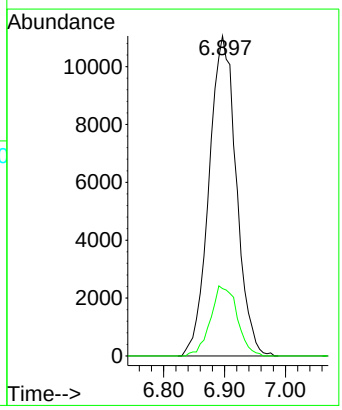


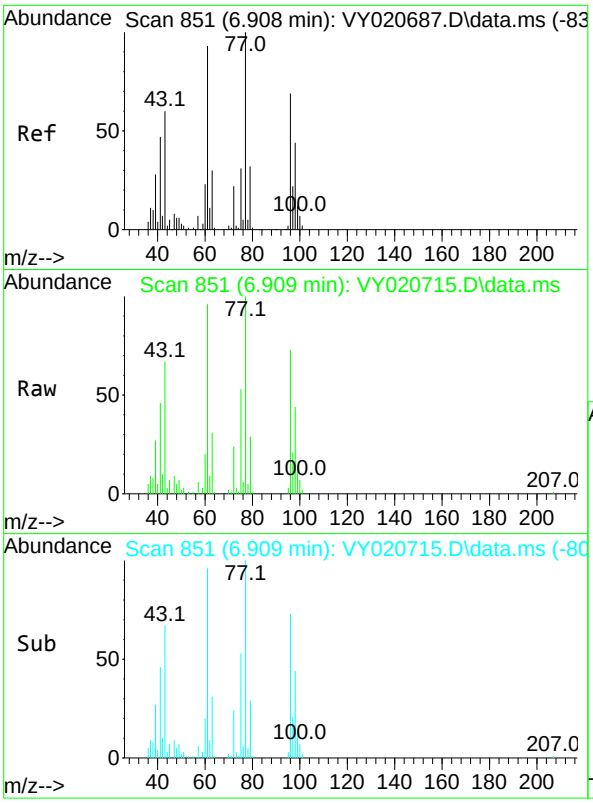




#26
2,2-Dichloropropane
Concen: 19.214 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 77 Resp: 34412

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.4 | 10.8 | 32.4 |



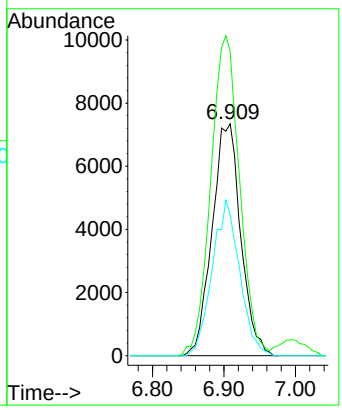


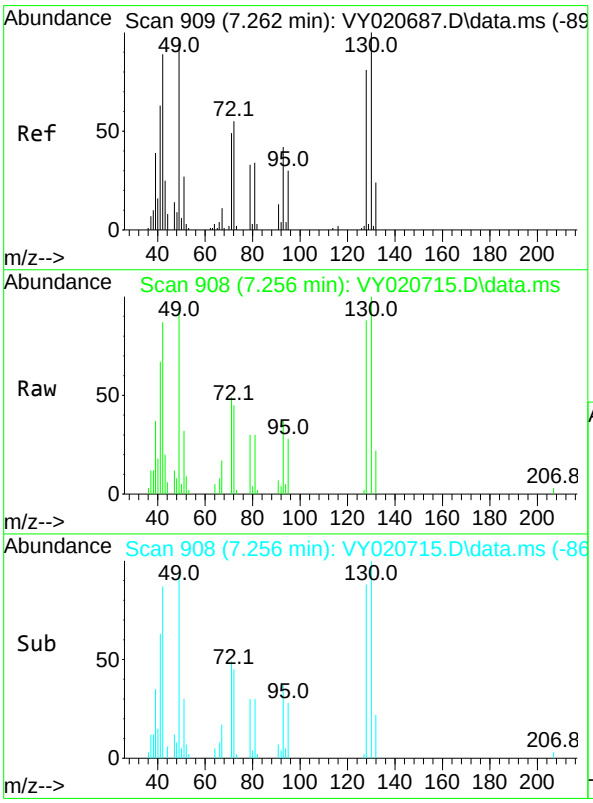

#27
cis-1,2-Dichloroethene
Concen: 19.302 ug/l
RT: 6.909 min Scan# 8
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 96 Resp: 20436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.7 | 0.0 | 277.2 |
| 98 | 64.2 | 0.0 | 131.0 |

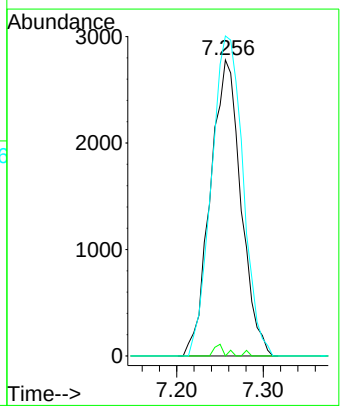


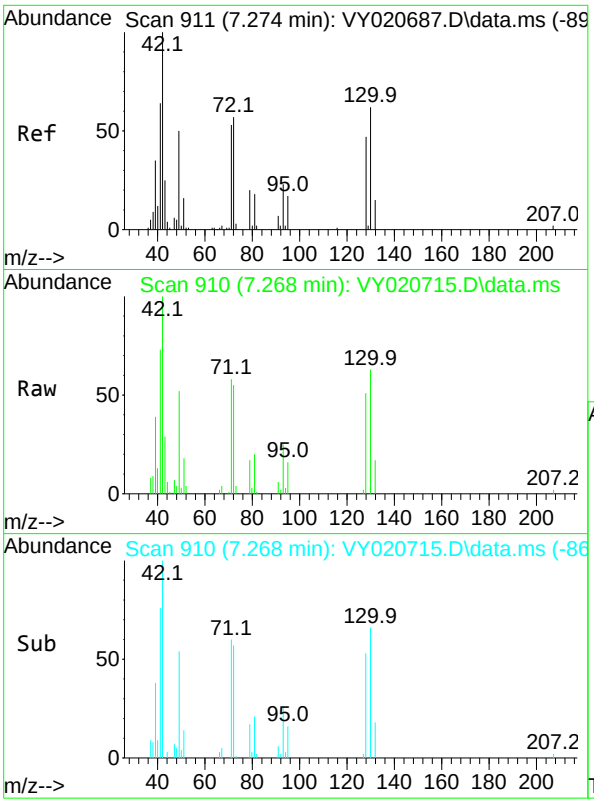




#28
Bromochloromethane
Concen: 17.648 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 49 Resp: 6829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.3 | 0.0 | 5.4 |
| 130 | 111.4 | 87.2 | 130.8 |



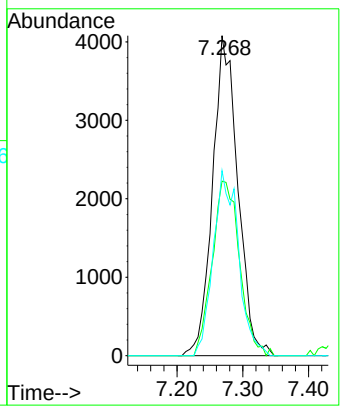


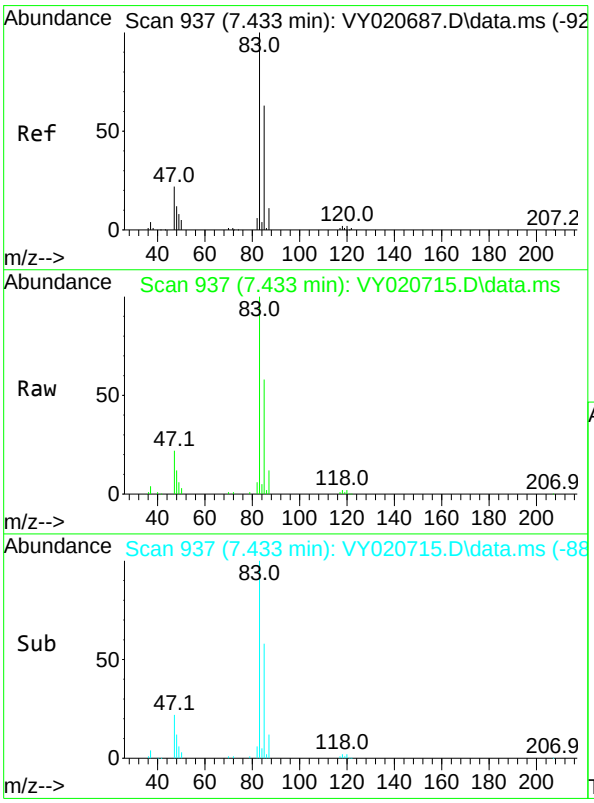

#29
Tetrahydrofuran
Concen: 105.377 ug/l
RT: 7.268 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 42 Resp: 10899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 59.1 | 47.4 | 71.0 |
| 71 | 57.6 | 42.8 | 64.2 |

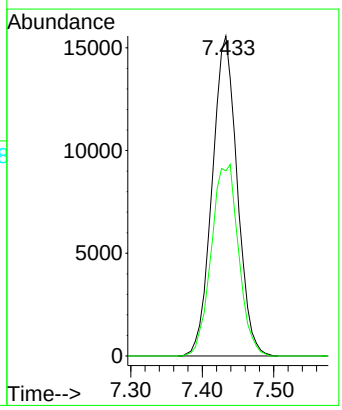


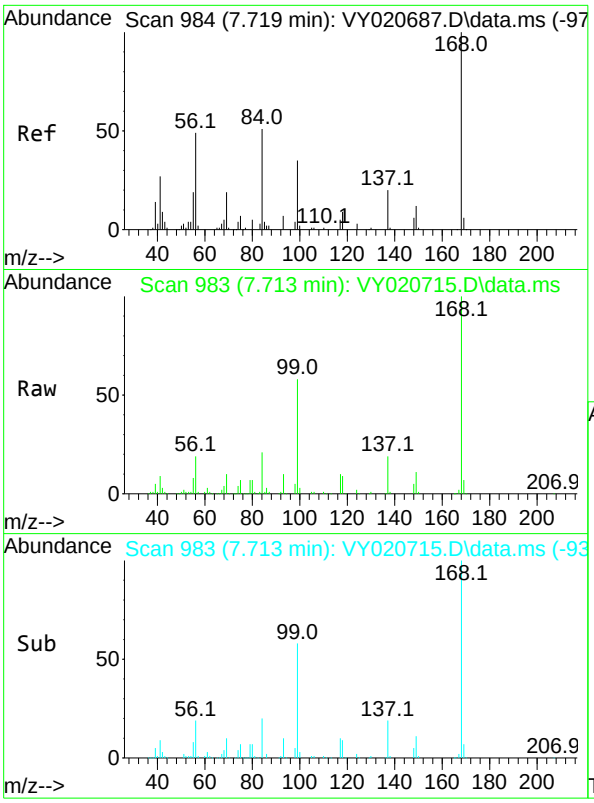




#30
Chloroform
Concen: 20.060 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 83 Resp: 37760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 57.8 | 50.2 | 75.2 |



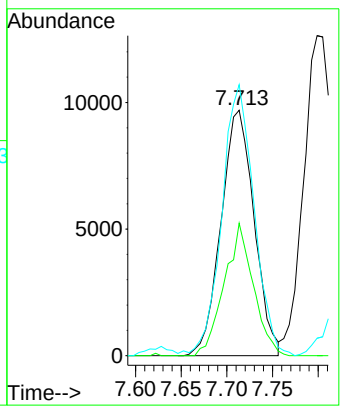


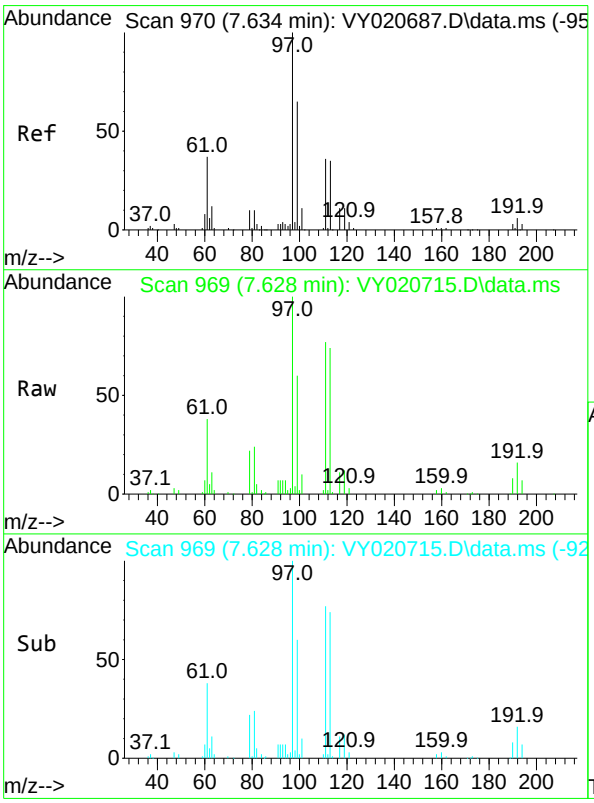

#31
Cyclohexane
Concen: 19.354 ug/l
RT: 7.713 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 56 Resp: 24445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 54.0 | 31.3 | 46.9# |
| 84 | 109.5 | 83.9 | 125.9 |

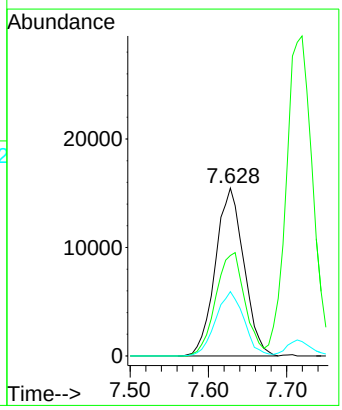


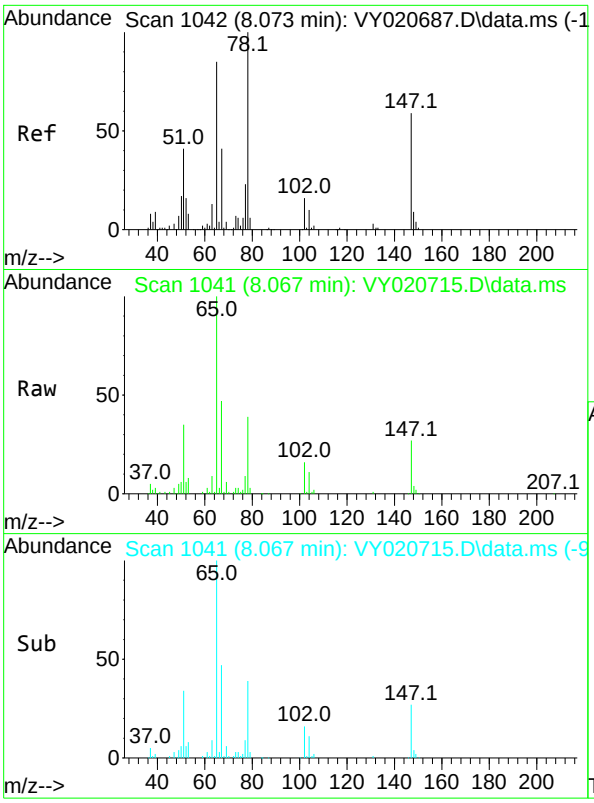




#32
1,1,1-Trichloroethane
Concen: 19.385 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 97 Resp: 39114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 62.9 | 51.0 | 76.6 |
| 61 | 38.2 | 30.0 | 45.0 |



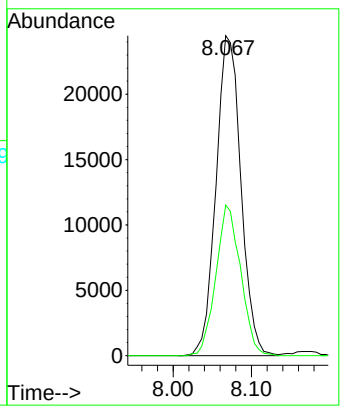


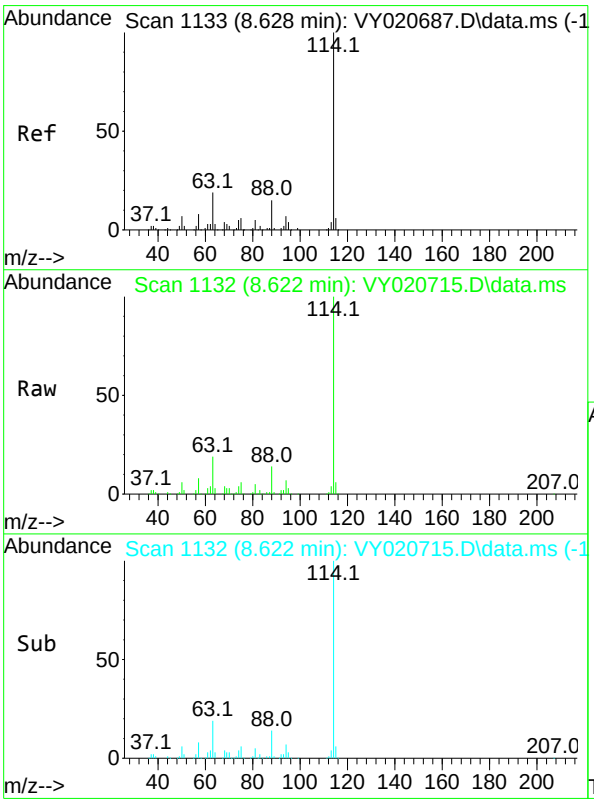

#33
1,2-Dichloroethane-d4
Concen: 55.004 ug/l
RT: 8.067 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 65 Resp: 54084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 46.8 | 0.0 | 98.0 |

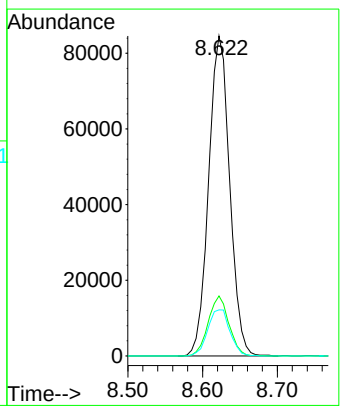


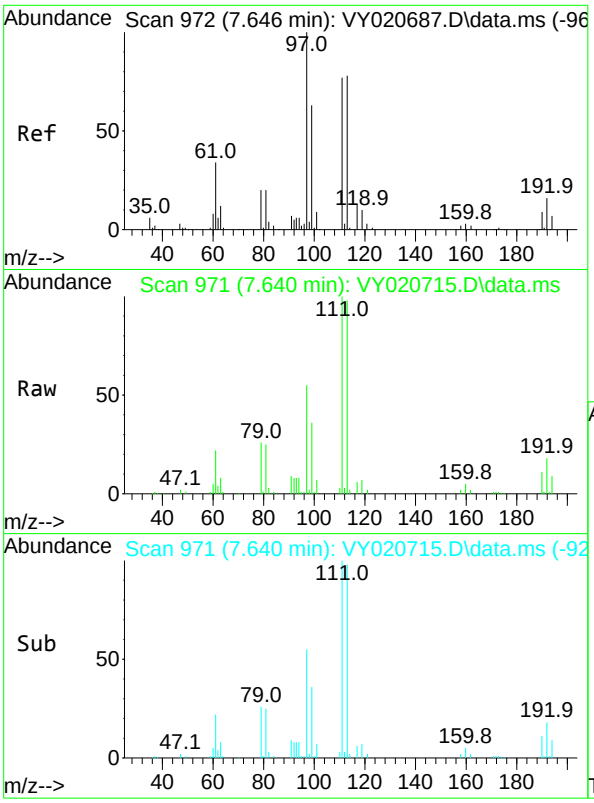




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:114 Resp: 165739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.7 | 0.0 | 38.4 |
| 88 | 14.4 | 0.0 | 30.4 |



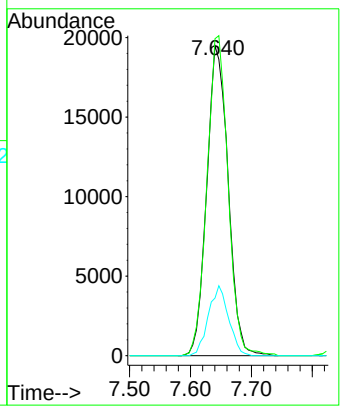


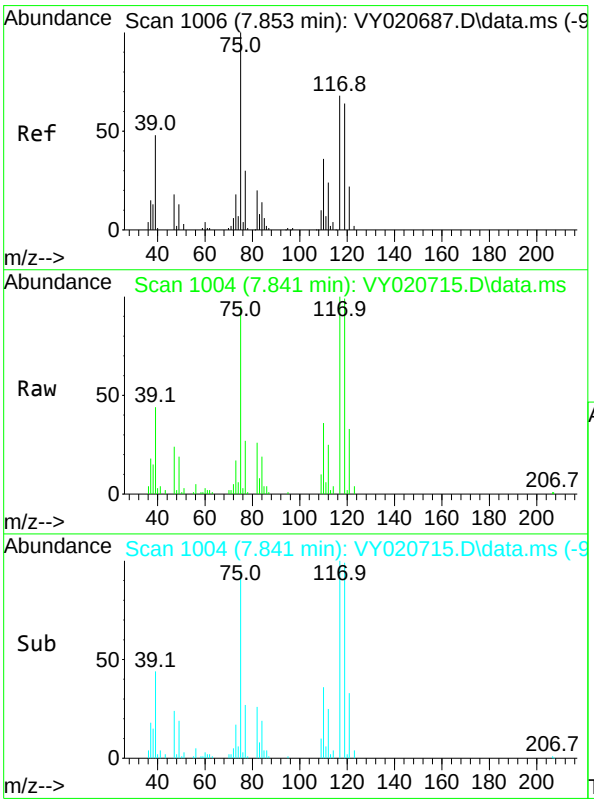

#35
Dibromofluoromethane
Concen: 52.103 ug/l
RT: 7.640 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:113 Resp: 47566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.7 | 79.8 | 119.8 |
| 192 | 21.3 | 17.0 | 25.6 |

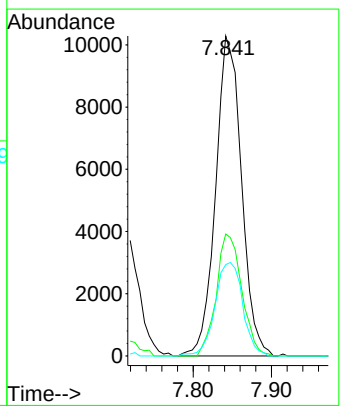


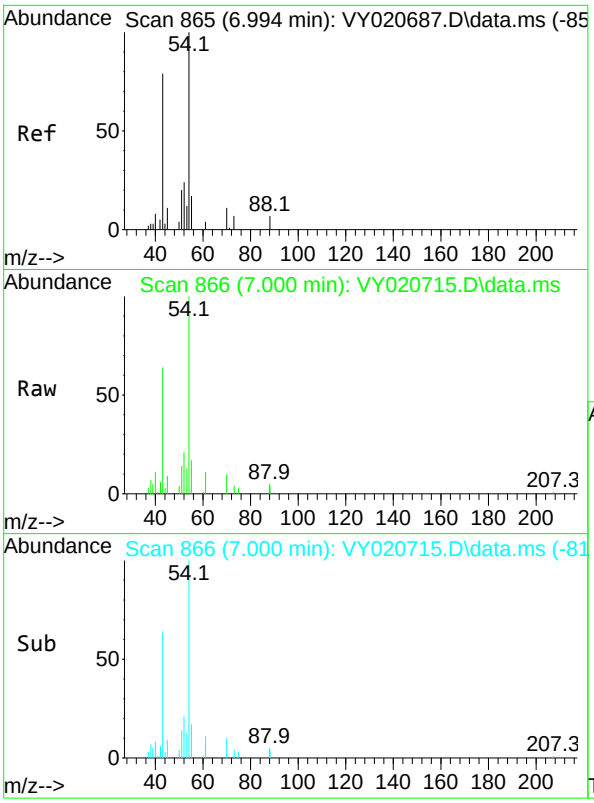




#36
1,1-Dichloropropene
Concen: 19.569 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 75 Resp: 23598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 37.5 | 19.6 | 58.7 |
| 77 | 31.3 | 25.1 | 37.7 |



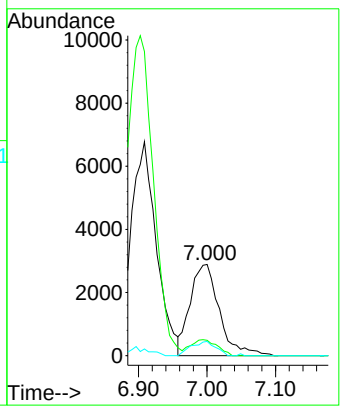


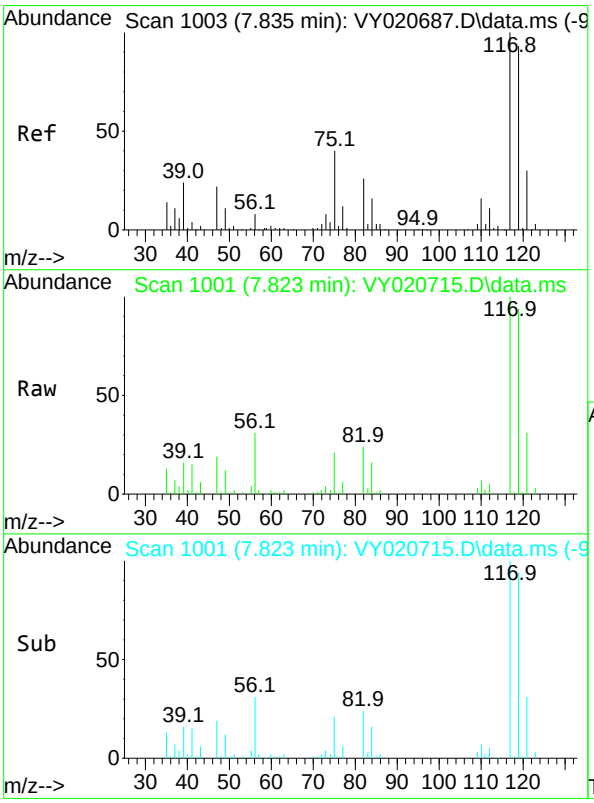

#37
Ethyl Acetate
Concen: 21.556 ug/l
RT: 7.000 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 43 Resp: 8566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.9 | 11.7 | 17.5 |
| 70 | 13.2 | 11.0 | 16.4 |

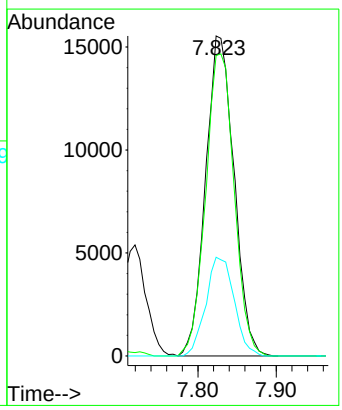


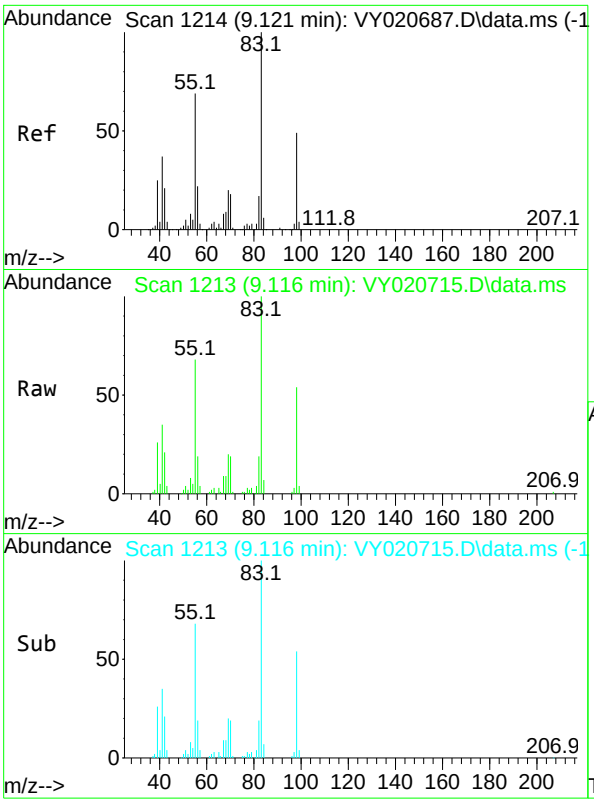




#38
Carbon Tetrachloride
Concen: 19.734 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. -0.012 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:117 Resp: 39187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.9 | 74.4 | 111.6 |
| 121 | 30.9 | 24.2 | 36.2 |



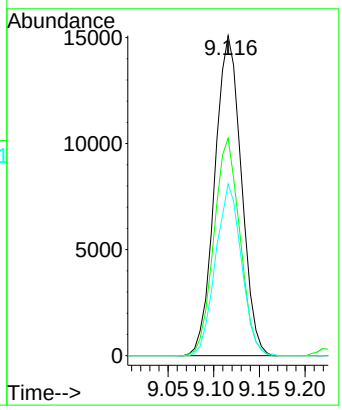


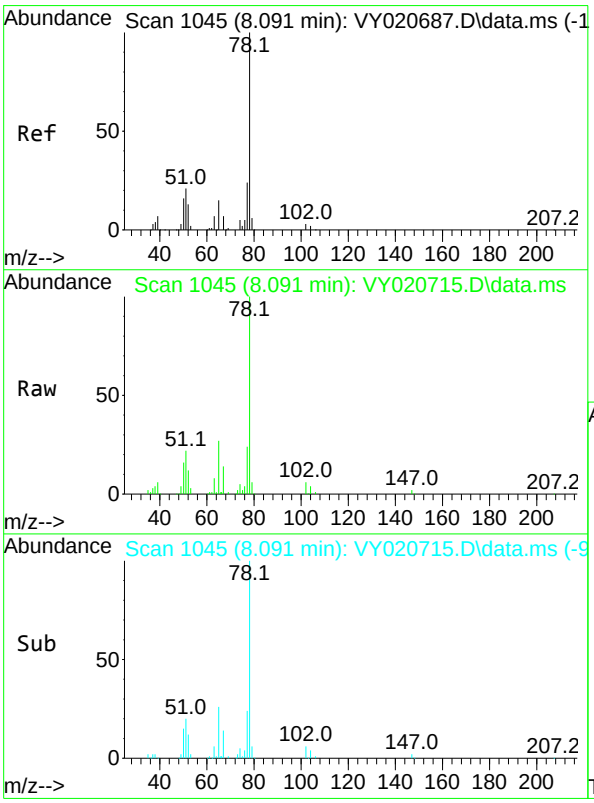

#39
Methylcyclohexane
Concen: 19.742 ug/l
RT: 9.116 min Scan# 1
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 83 Resp: 30514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 68.0 | 55.0 | 82.4 |
| 98 | 53.7 | 39.0 | 58.6 |

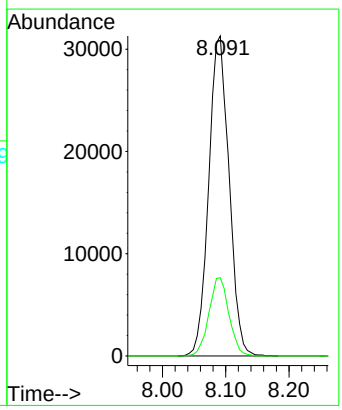


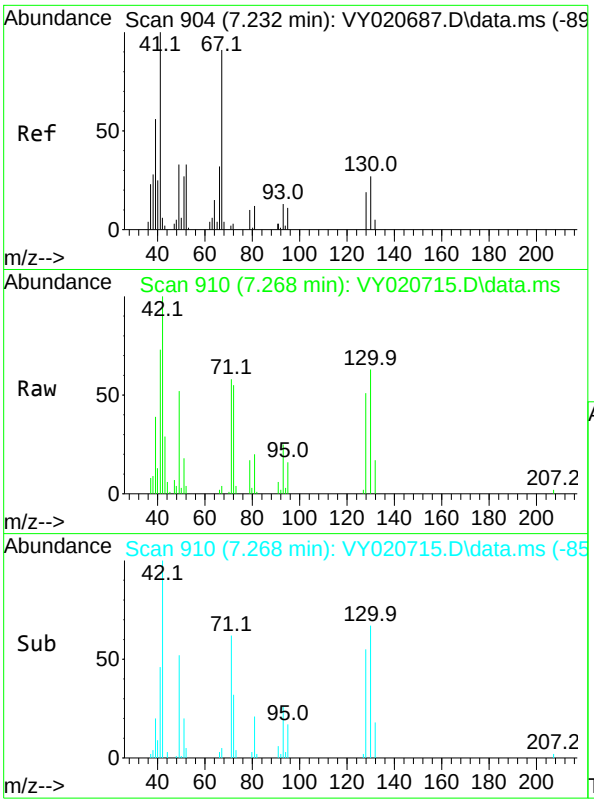




#40
Benzene
Concen: 19.987 ug/l
RT: 8.091 min Scan# 1045
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 78 Resp: 69851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.5 | 19.2 | 28.8 |



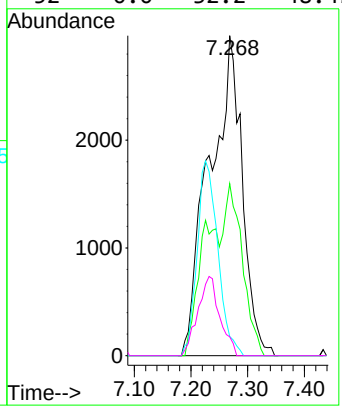


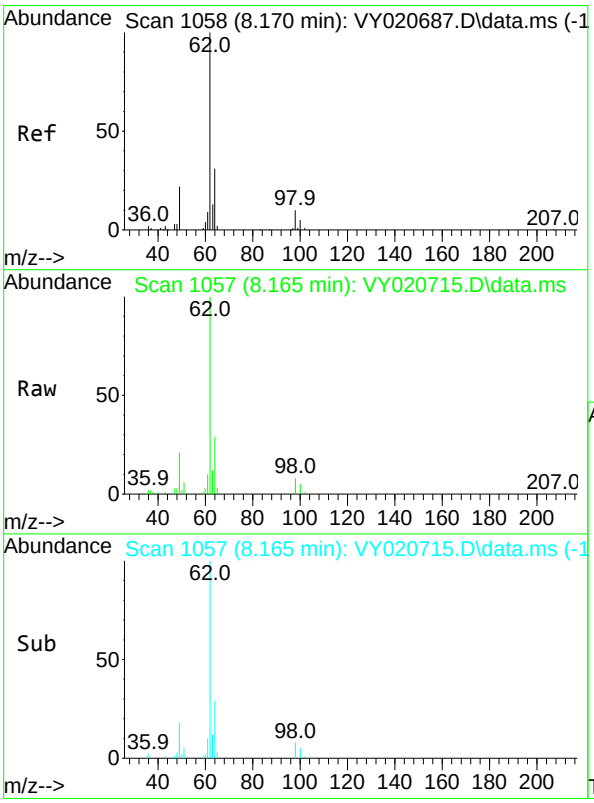

#41
Methacrylonitrile
Concen: 59.194 ug/l
RT: 7.268 min Scan# 91
Delta R.T. 0.036 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 41 Resp: 11882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 31.3 | 46.6 | 70.0# |
| 67 | 0.0 | 74.7 | 112.1# |
| 52 | 0.0 | 32.2 | 48.4# |

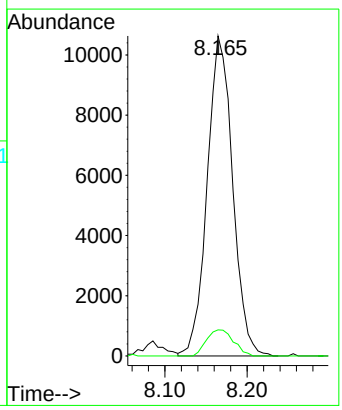


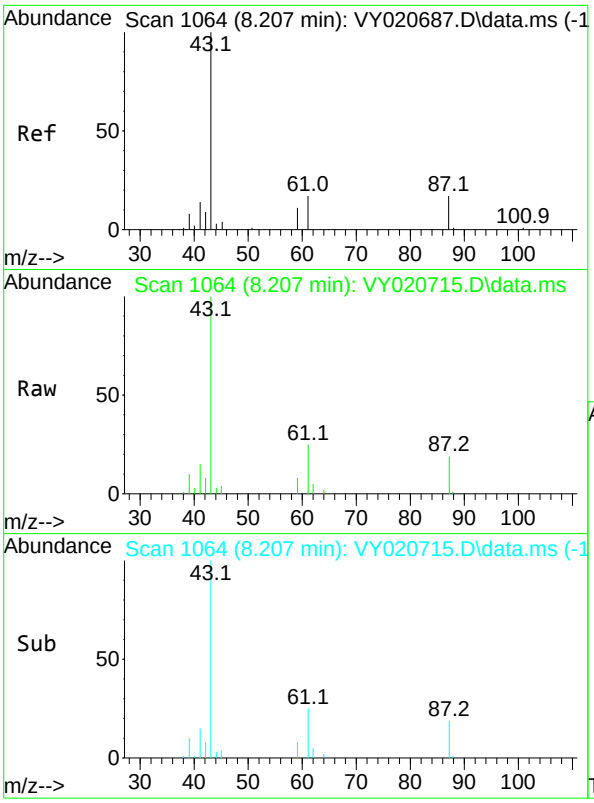




#42
1,2-Dichloroethane
Concen: 20.396 ug/l
RT: 8.165 min Scan# 1057
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 62 Resp: 22857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.7 | 0.0 | 16.6 |



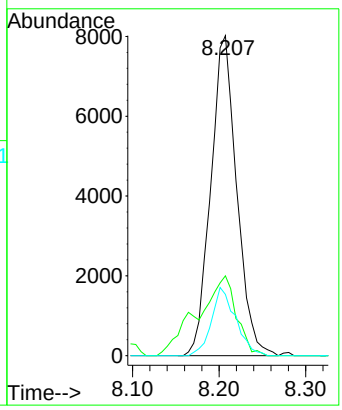


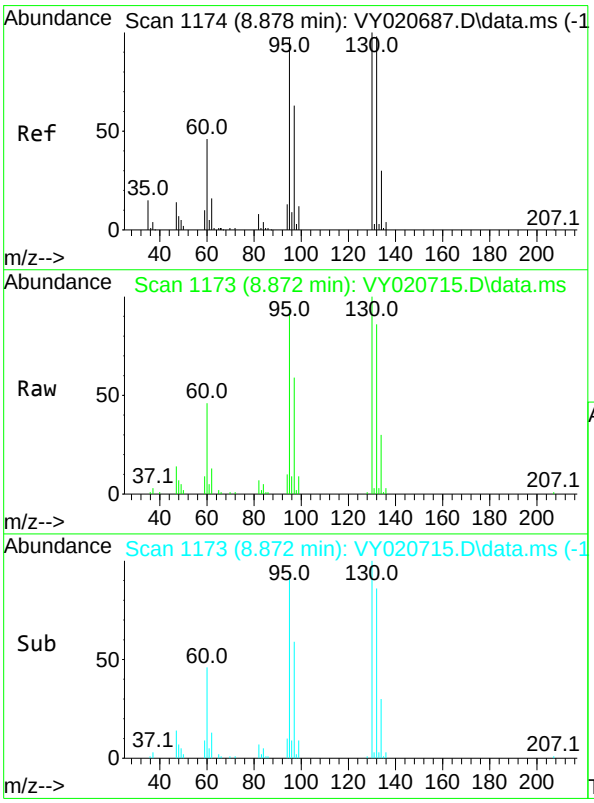

#43
Isopropyl Acetate
Concen: 19.754 ug/l
RT: 8.207 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 43 Resp: 16685

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 26.3 | 27.0 | 40.4# |
| 87 | 19.9 | 14.2 | 21.4 |

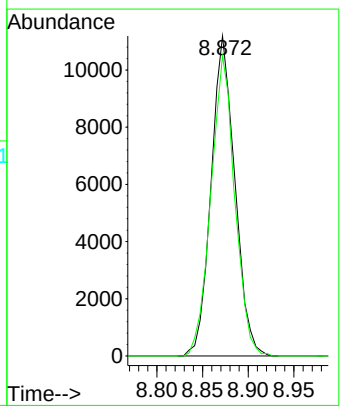


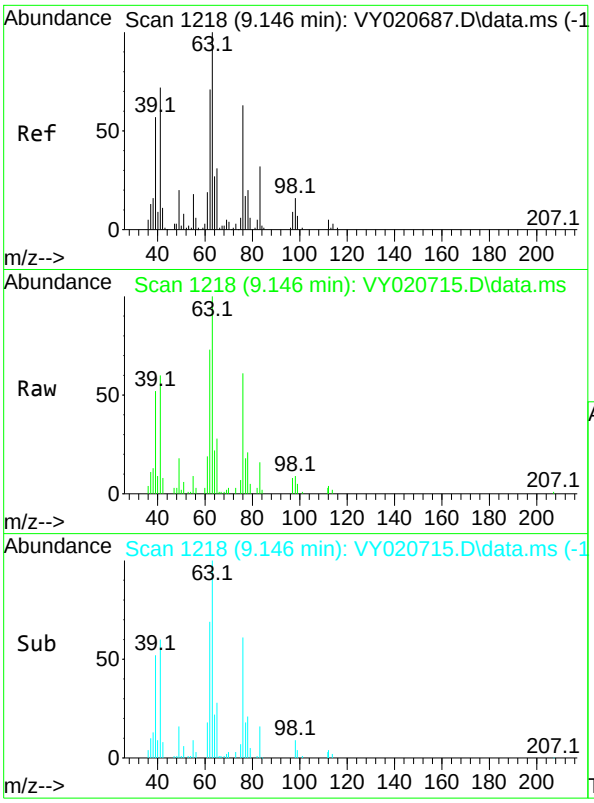




#44
Trichloroethene
Concen: 19.365 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:130 Resp: 20214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.8 | 0.0 | 194.8 |



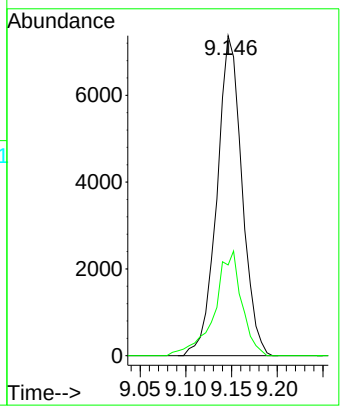


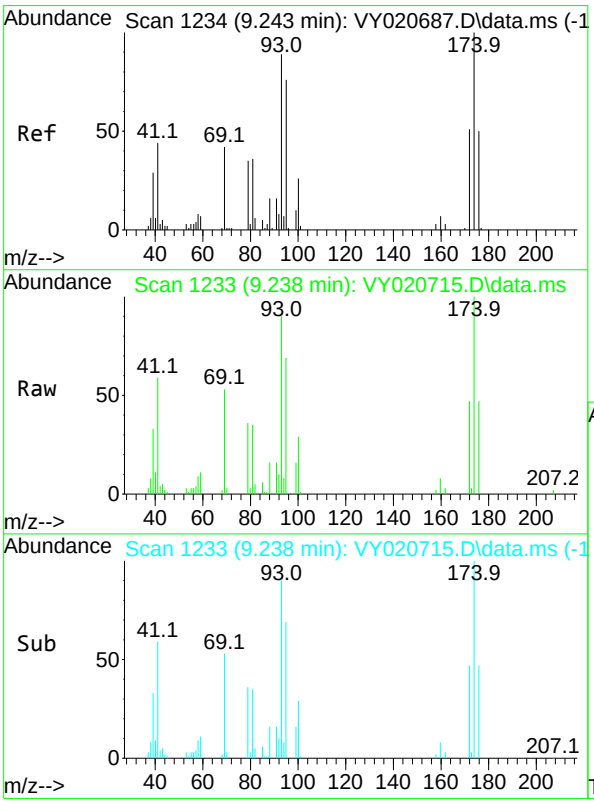

#45
1,2-Dichloropropane
Concen: 19.891 ug/l
RT: 9.146 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 63 Resp: 14072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 28.3 | 24.6 | 36.8 |

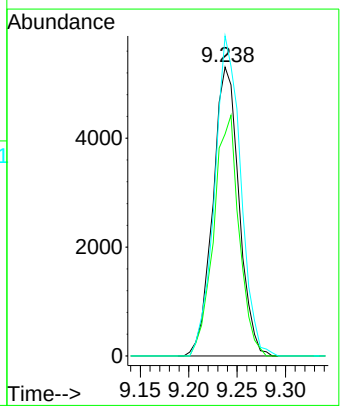


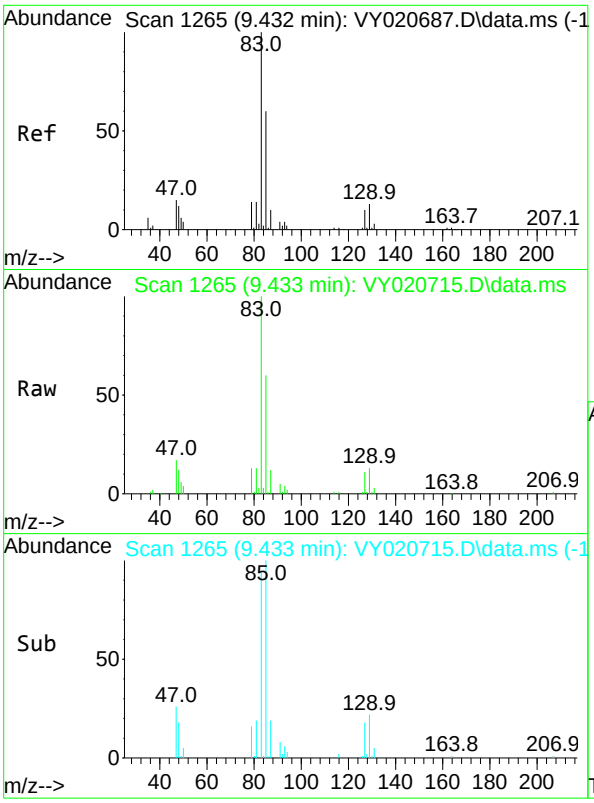




#46
Dibromomethane
Concen: 20.339 ug/l
RT: 9.238 min Scan# 1233
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 93 Resp: 9956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 80.6 | 67.8 | 101.8 |
| 174 | 110.8 | 89.4 | 134.0 |



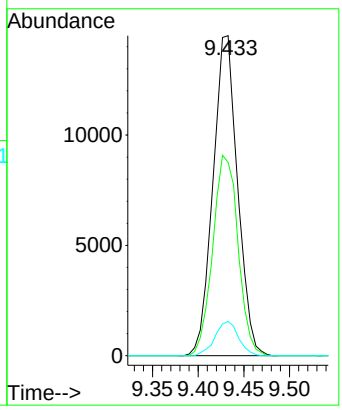


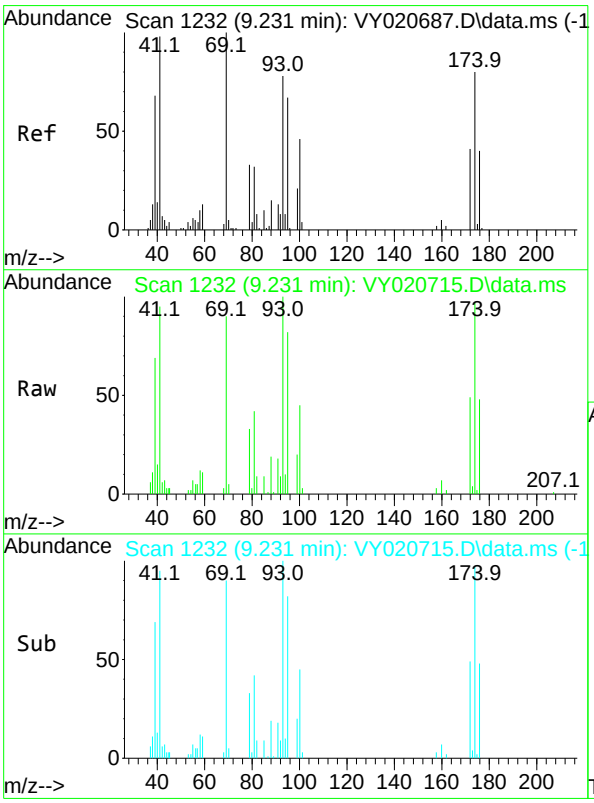

#47
Bromodichloromethane
Concen: 19.608 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 83 Resp: 27211

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 60.4 | 47.6 | 71.4 |
| 127 | 10.7 | 7.9 | 11.9 |

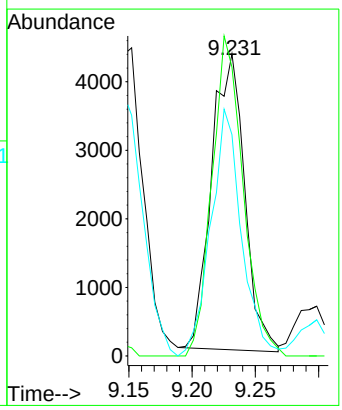


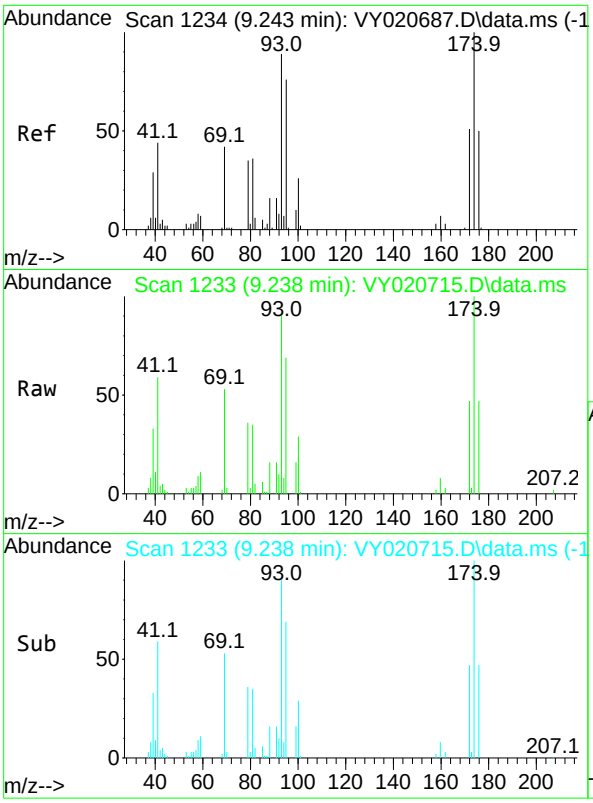




#48
Methyl methacrylate
Concen: 19.912 ug/l
RT: 9.231 min Scan# 1232
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 41 Resp: 7854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 101.9 | 83.1 | 124.7 |
| 39 | 76.9 | 57.3 | 85.9 |



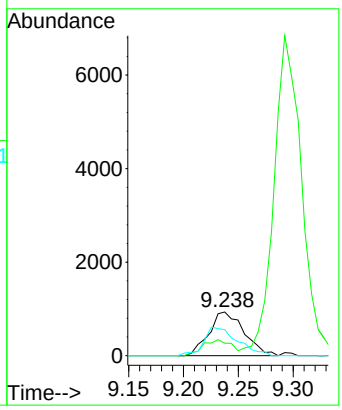


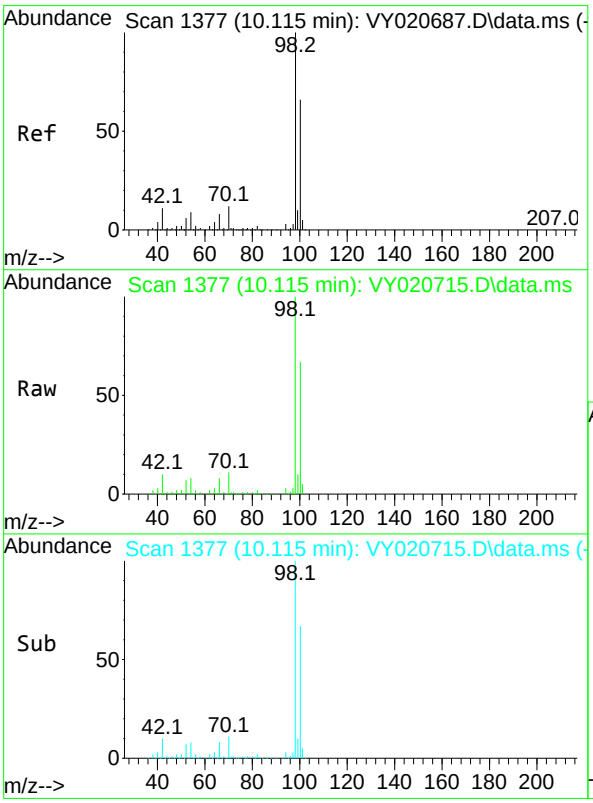

#49
1,4-Dioxane
Concen: 445.671 ug/l
RT: 9.238 min Scan# 1
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 88 Resp: 2078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 22.1 | 33.1 |
| 58 | 62.4 | 46.7 | 70.1 |

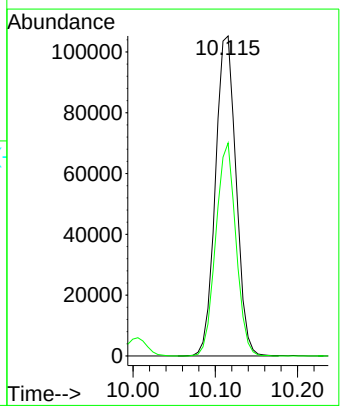


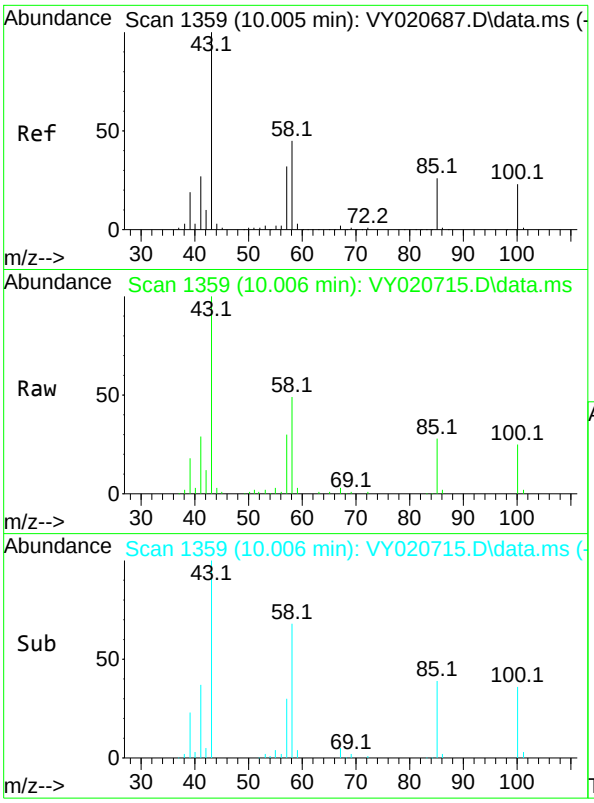




#50
Toluene-d8
Concen: 50.606 ug/l
RT: 10.115 min Scan# 1377
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 98 Resp: 183793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.0 | 52.2 | 78.4 |



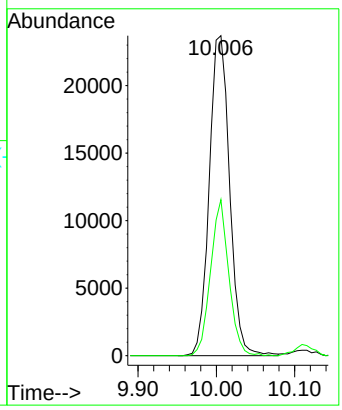


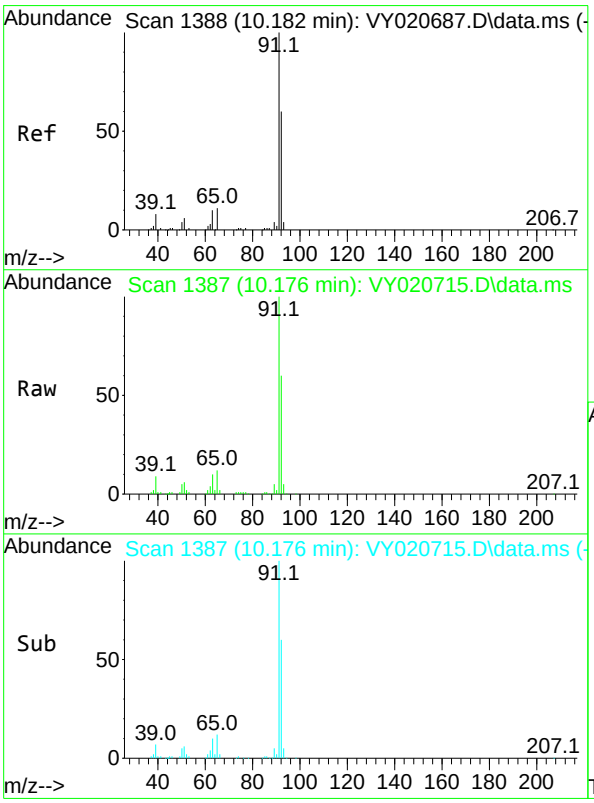

#51
4-Methyl-2-Pentanone
Concen: 105.031 ug/l
RT: 10.006 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 43 Resp: 42819

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.7 | 35.1 | 52.7 |

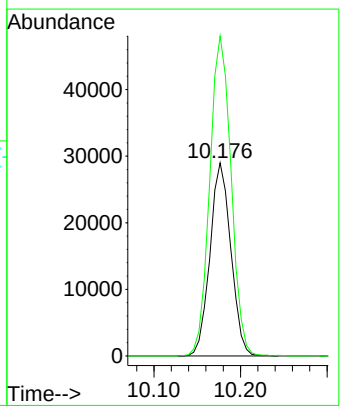


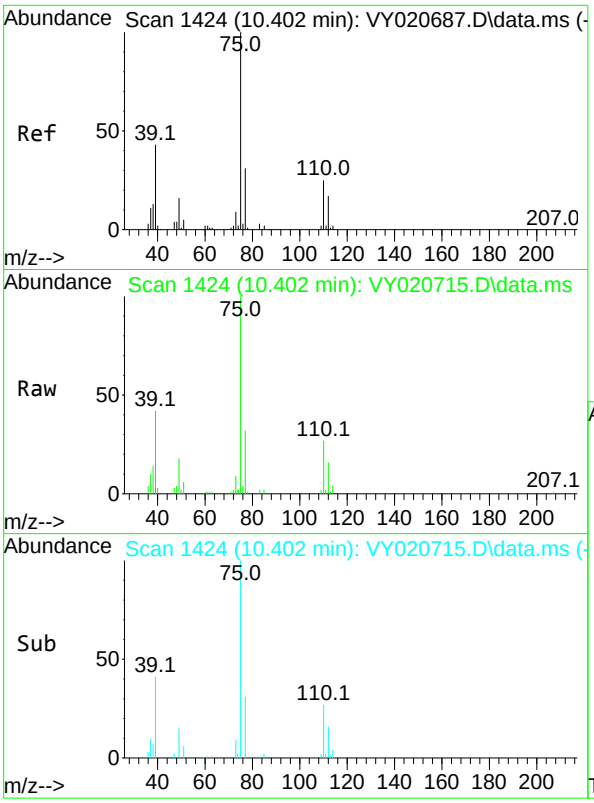




#52
Toluene
Concen: 20.266 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 92 Resp: 48544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.4 | 137.7 | 206.5 |



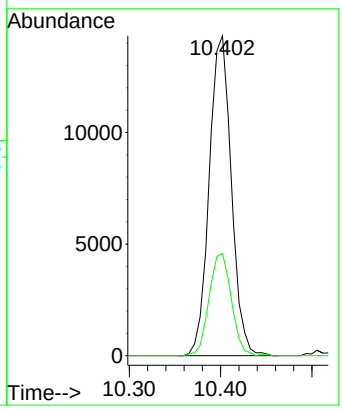


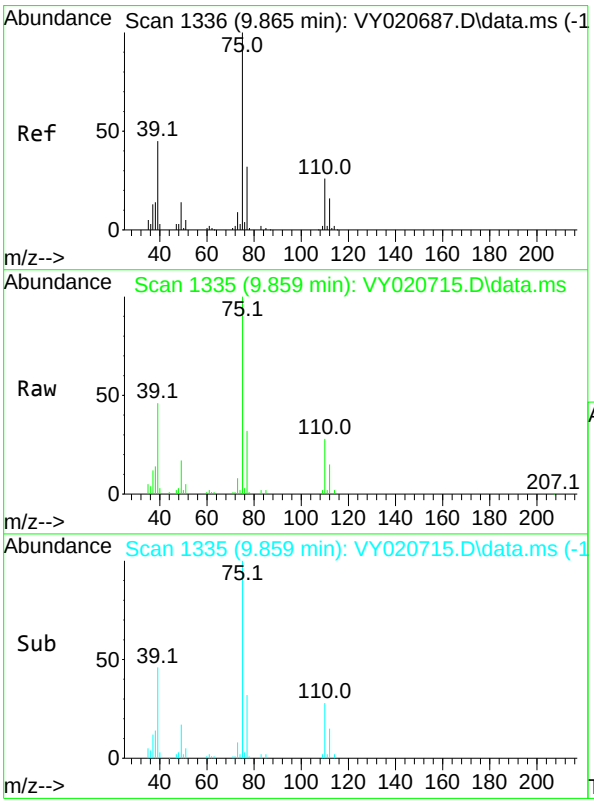

#53
t-1,3-Dichloropropene
Concen: 19.744 ug/l
RT: 10.402 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 75 Resp: 24065

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.1 | 37.7 |

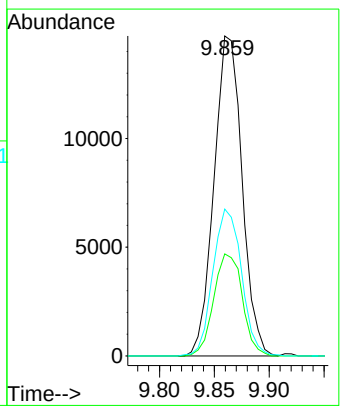


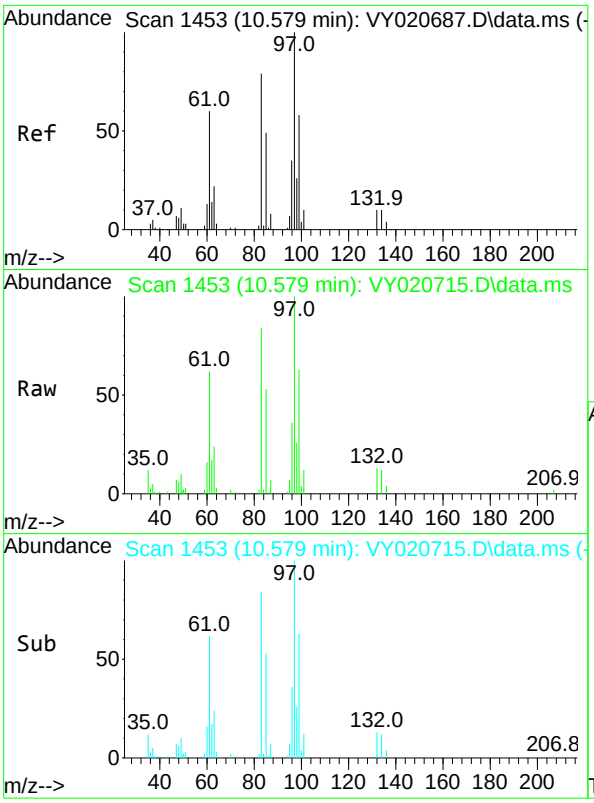




#54
cis-1,3-Dichloropropene
Concen: 19.616 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 75 Resp: 26207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.9 | 25.6 | 38.4 |
| 39 | 45.9 | 36.2 | 54.2 |



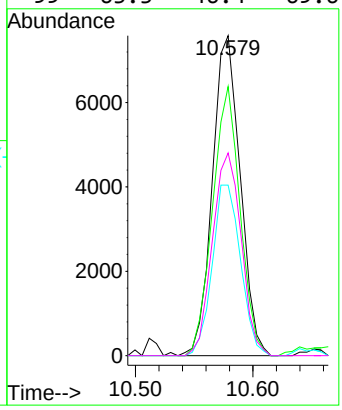


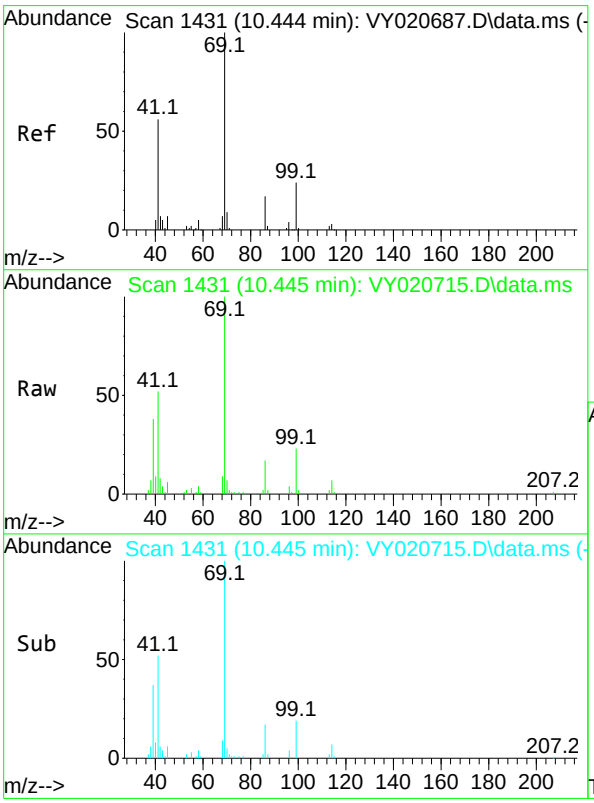

#55
1,1,2-Trichloroethane
Concen: 20.014 ug/l
RT: 10.579 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 97 Resp: 12505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.1 | 63.1 | 94.7 |
| 85 | 53.3 | 39.5 | 59.3 |
| 99 | 63.3 | 46.4 | 69.6 |

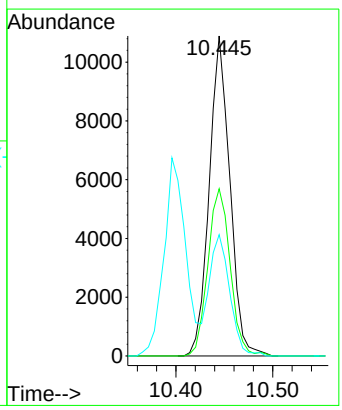


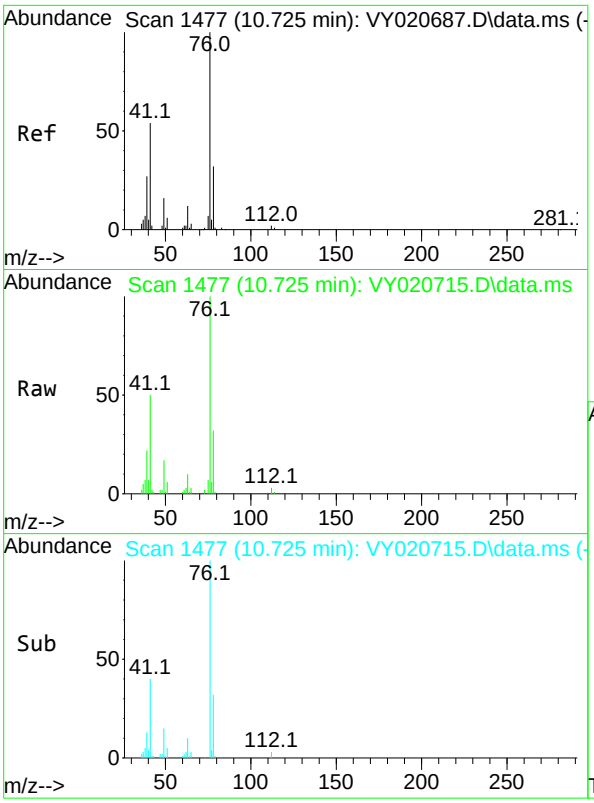




#56
Ethyl methacrylate
Concen: 19.708 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 69 Resp: 16177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 56.5 | 43.8 | 65.6 |
| 39 | 37.1 | 32.0 | 48.0 |



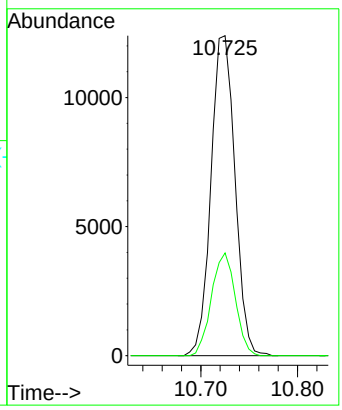


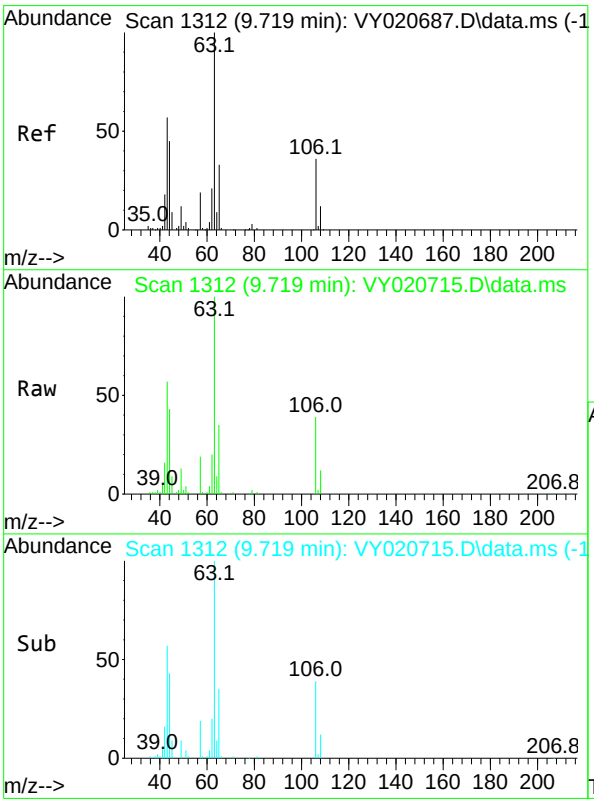

#57
1,3-Dichloropropane
Concen: 21.046 ug/l
RT: 10.725 min Scan# 14
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 76 Resp: 21343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 25.0 | 37.6 |

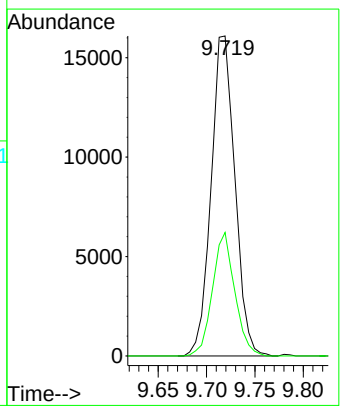


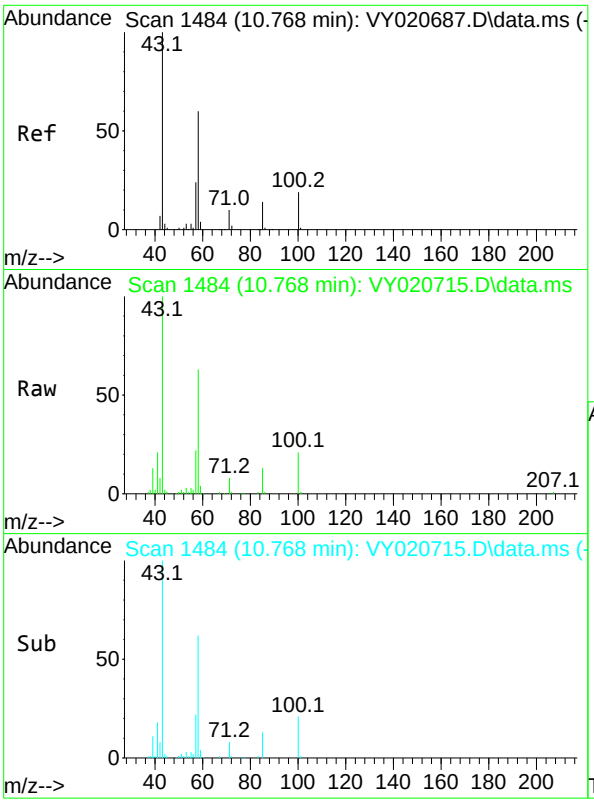




#58
2-Chloroethyl Vinyl ether
Concen: 96.265 ug/l
RT: 9.719 min Scan# 1312
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 63 Resp: 27555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 36.1 | 29.1 | 43.7 |



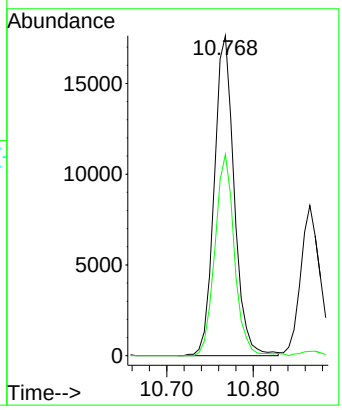


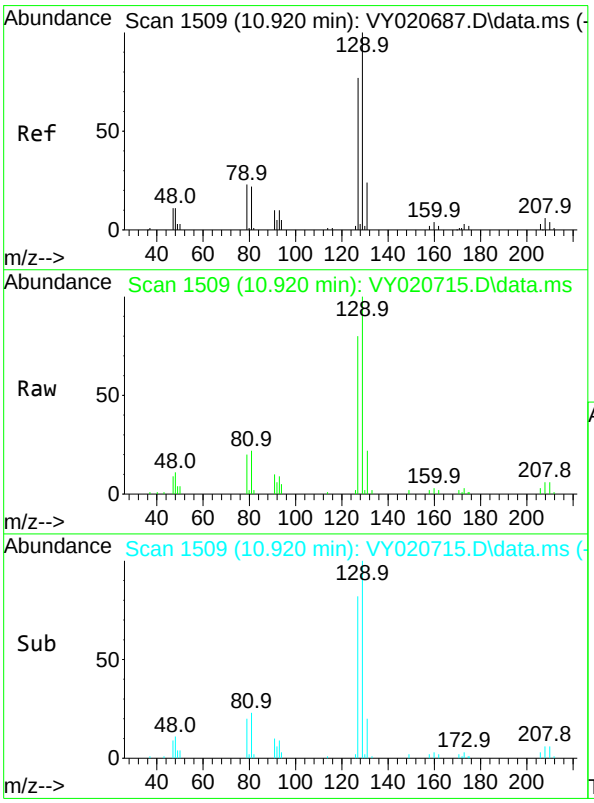

#59
2-Hexanone
Concen: 104.703 ug/l
RT: 10.768 min Scan# 14
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 43 Resp: 28183

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 61.5 | 30.1 | 90.5 |

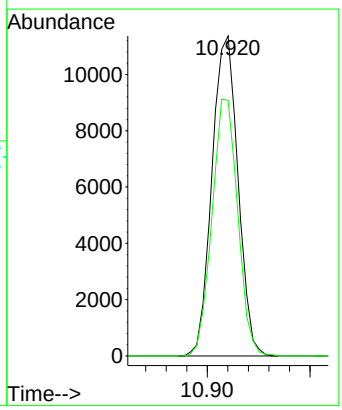


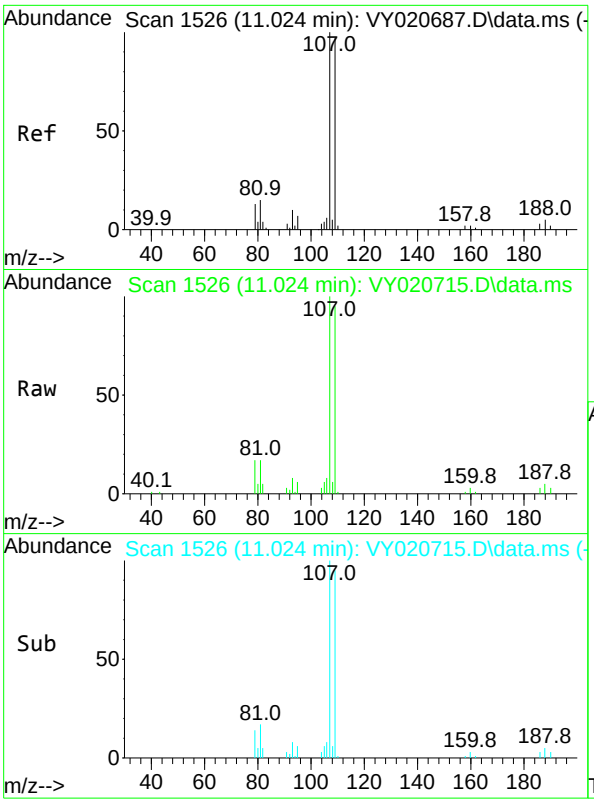




#60
Dibromochloromethane
Concen: 19.763 ug/l
RT: 10.920 min Scan# 1509
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:129 Resp: 19953

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 79.5 | 38.5 | 115.5 |



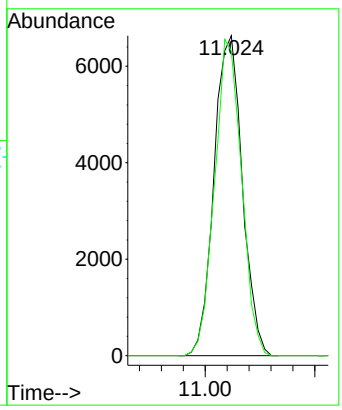


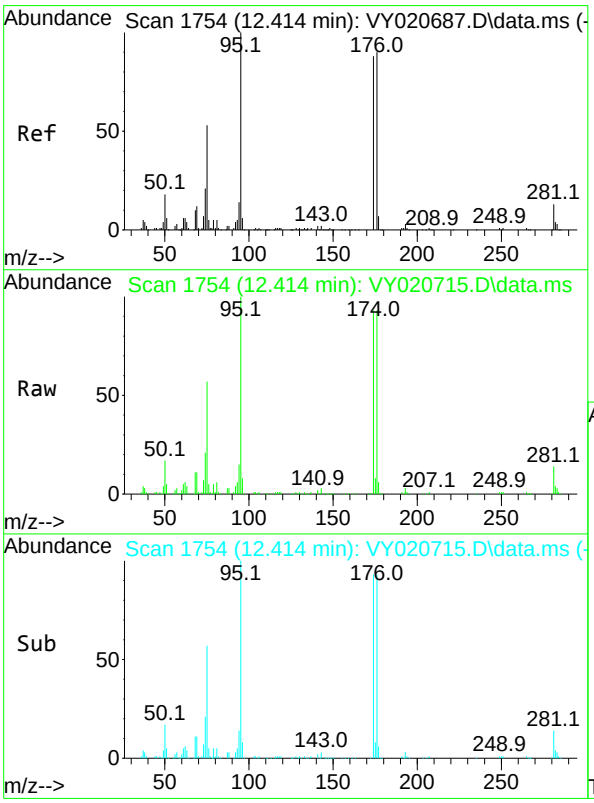

#61
1,2-Dibromoethane
Concen: 20.222 ug/l
RT: 11.024 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:107 Resp: 11889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.5 | 75.5 | 113.3 |

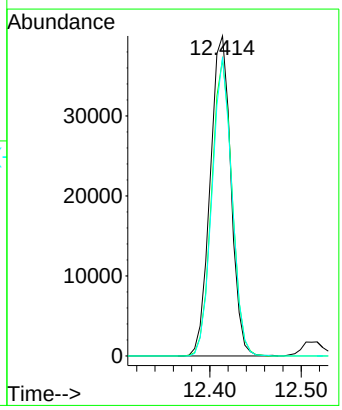


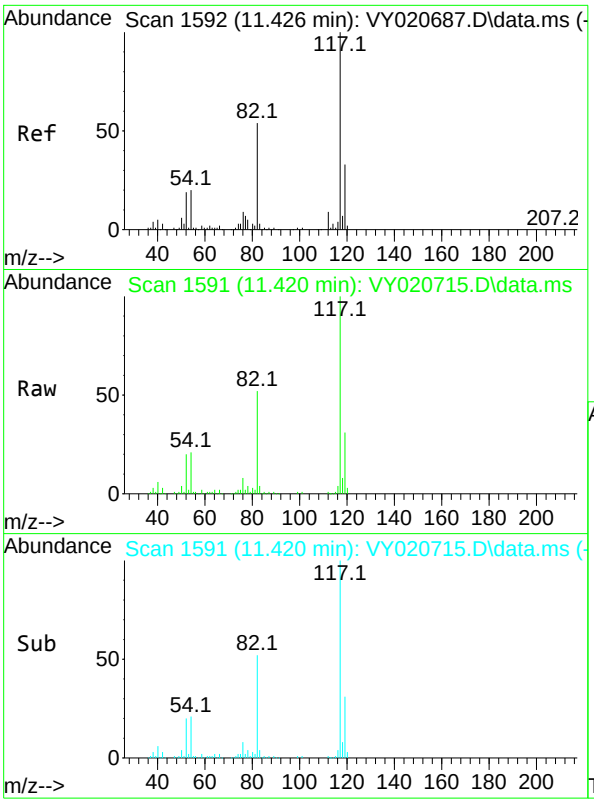




#62
4-Bromofluorobenzene
Concen: 51.825 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 95 Resp: 62876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.0 | 0.0 | 179.2 |
| 176 | 89.4 | 0.0 | 179.8 |



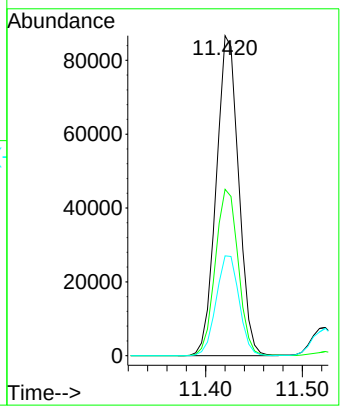


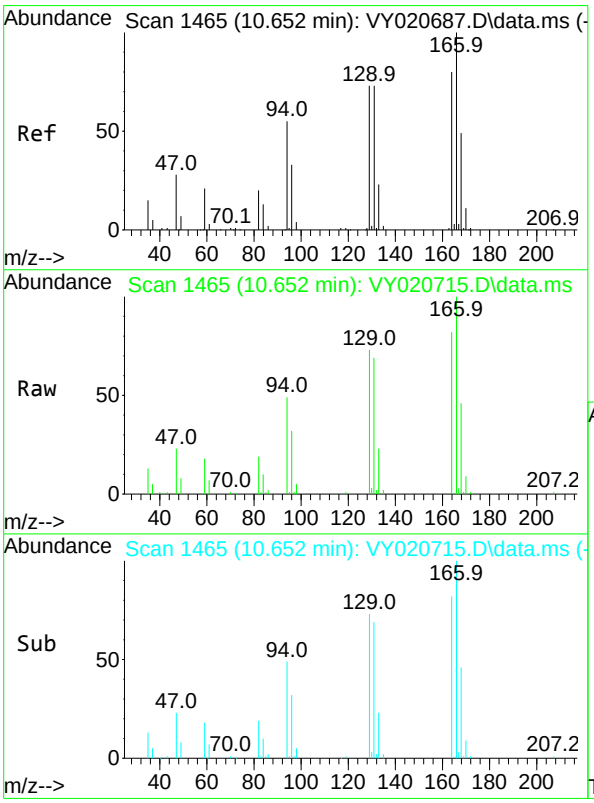

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:117 Resp: 139363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 52.0 | 43.4 | 65.2 |
| 119 | 31.2 | 26.6 | 39.8 |

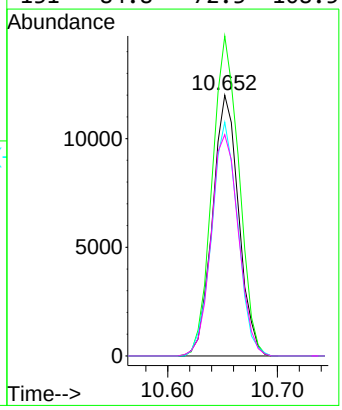


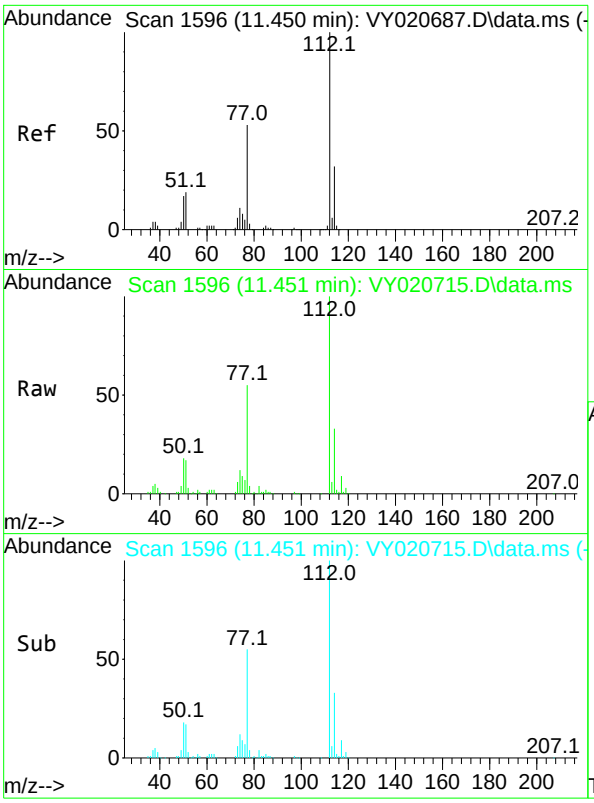




#64
Tetrachloroethene
Concen: 20.877 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:164 Resp: 19878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 122.7 | 99.6 | 149.4 |
| 129 | 89.6 | 73.0 | 109.4 |
| 131 | 84.8 | 72.3 | 108.5 |



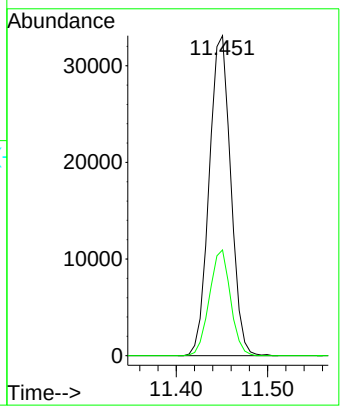


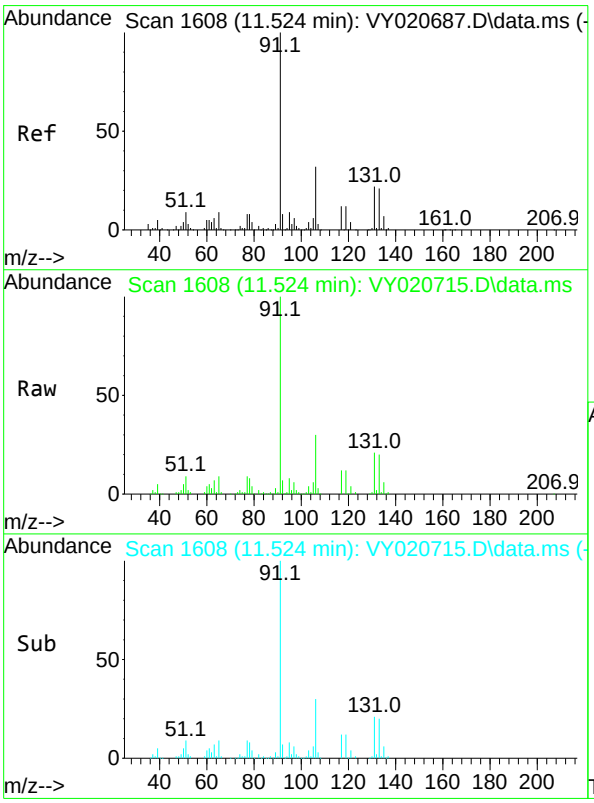

#65
Chlorobenzene
Concen: 19.832 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:112 Resp: 54119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 33.1 | 25.4 | 38.0 |

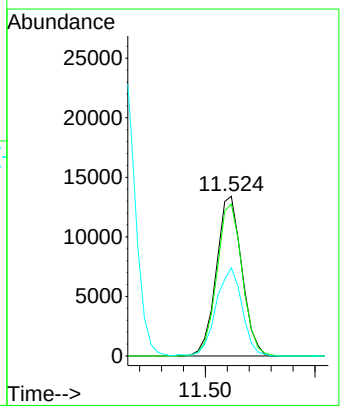


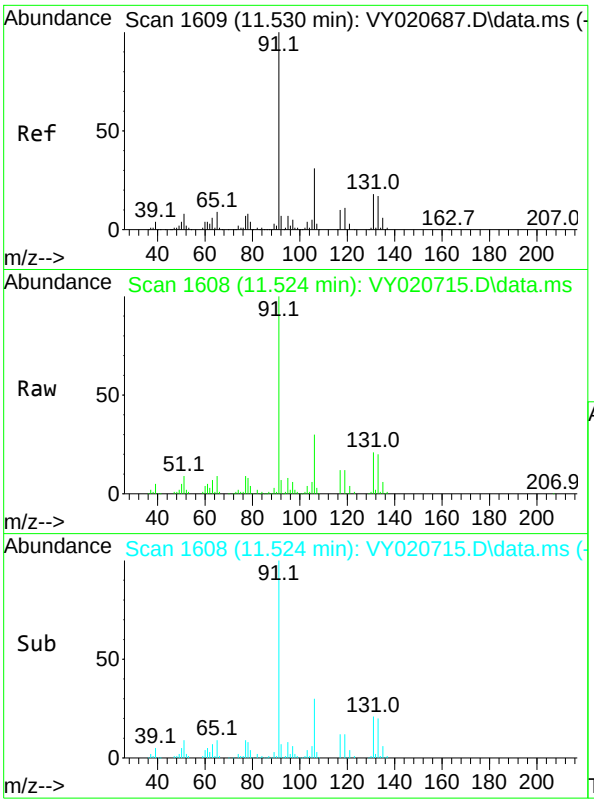




#66
1,1,1,2-Tetrachloroethane
Concen: 20.493 ug/l
RT: 11.524 min Scan# 1608
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:131 Resp: 21666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.5 | 48.6 | 145.9 |
| 119 | 56.2 | 28.4 | 85.3 |



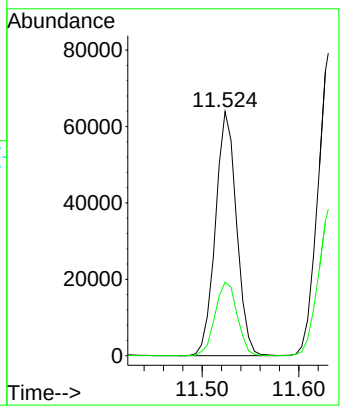


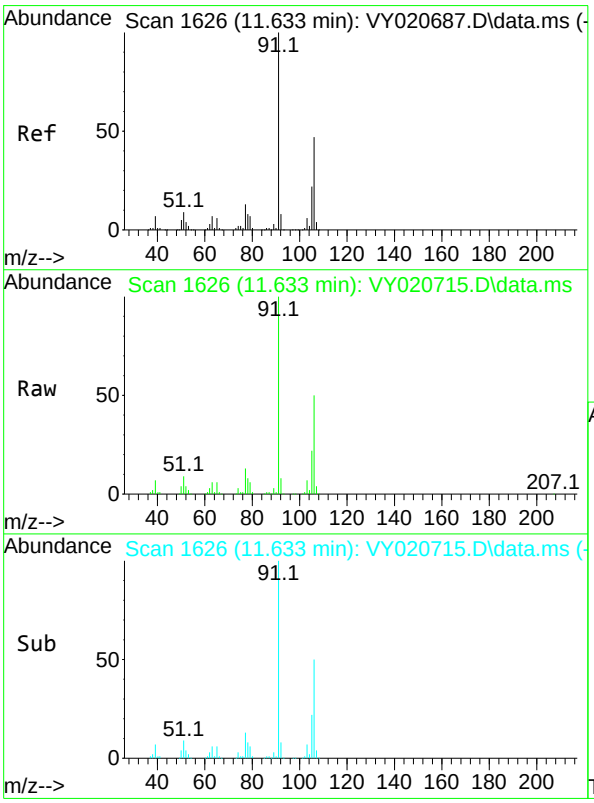

#67
Ethyl Benzene
Concen: 20.244 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 91 Resp: 96550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.2 | 24.5 | 36.7 |

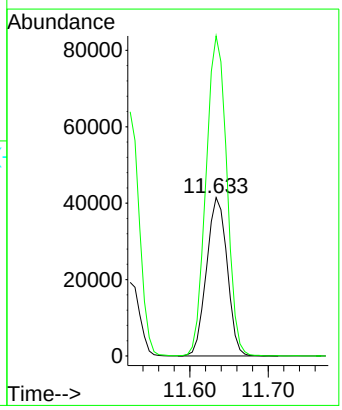


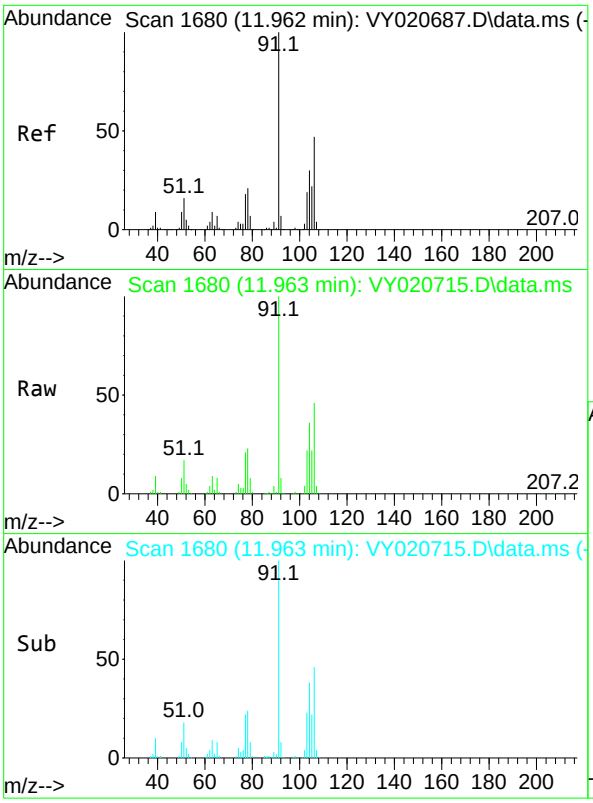




#68
m/p-Xylenes
Concen: 41.573 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:106 Resp: 75635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.2 | 166.6 | 250.0 |



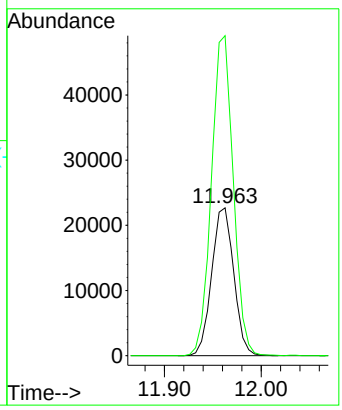


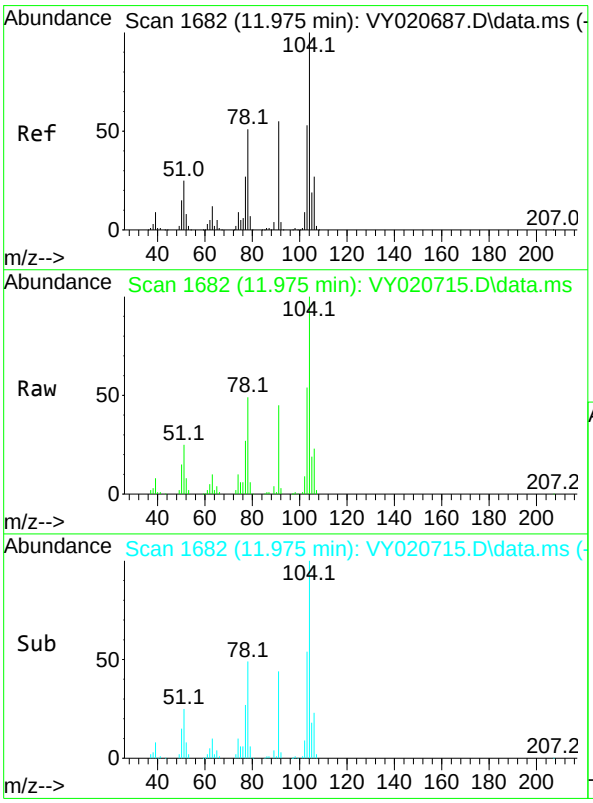

#69
o-Xylene
Concen: 20.693 ug/l
RT: 11.963 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:106 Resp: 35970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 213.9 | 108.6 | 325.8 |

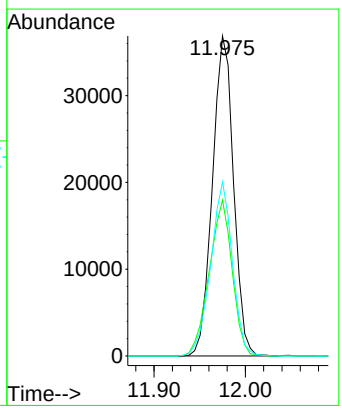


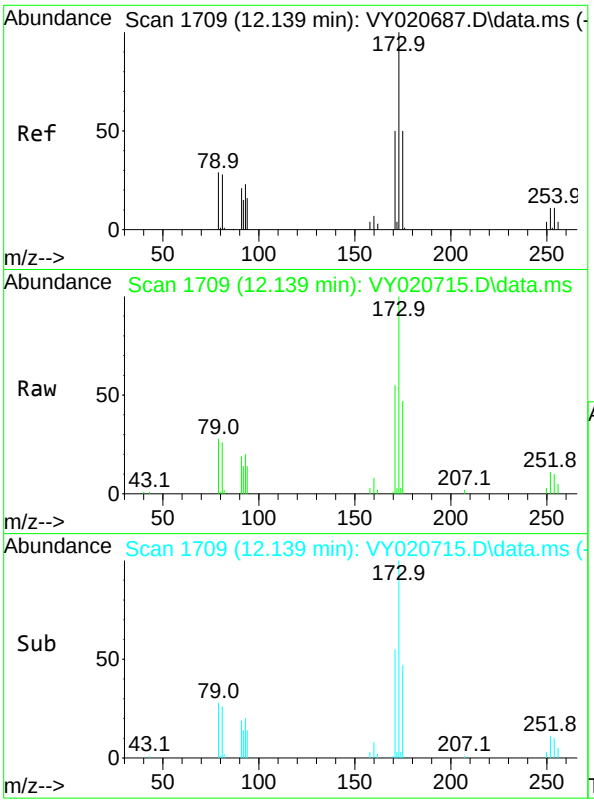




#70
Styrene
Concen: 20.228 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:104 Resp: 59026

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.0 | 43.0 | 64.4 |
| 103 | 56.3 | 44.4 | 66.6 |



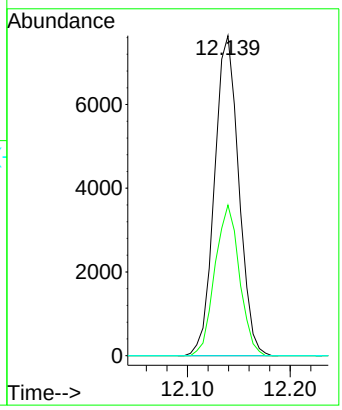


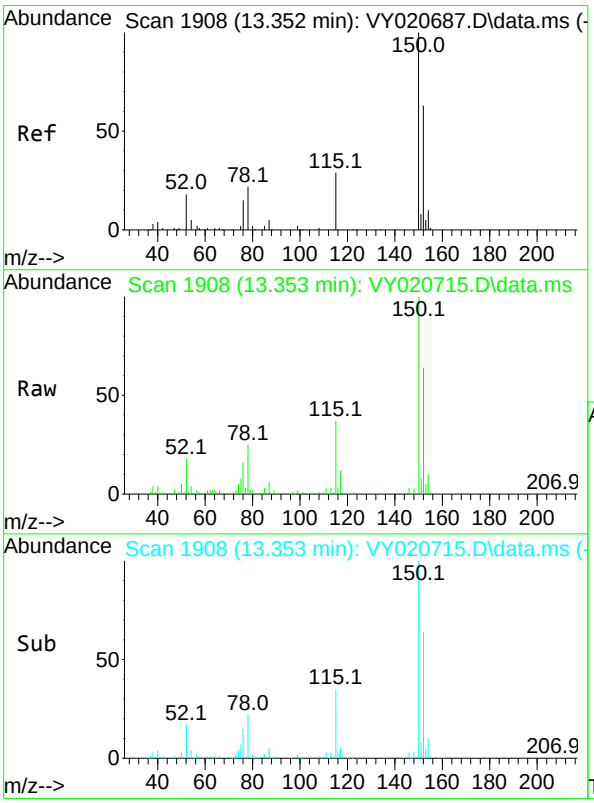

#71
Bromoform
Concen: 20.623 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:173 Resp: 12535

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.5 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

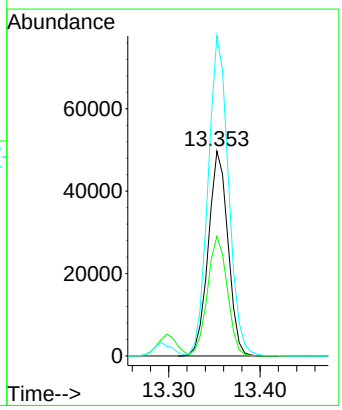


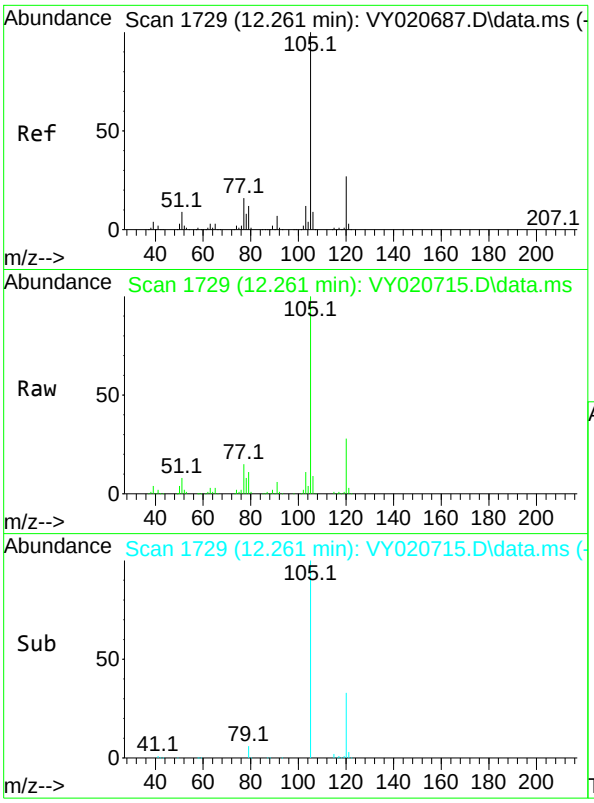




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:152 Resp: 74040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.7 | 30.3 | 90.9 |
| 150 | 162.5 | 0.0 | 349.0 |



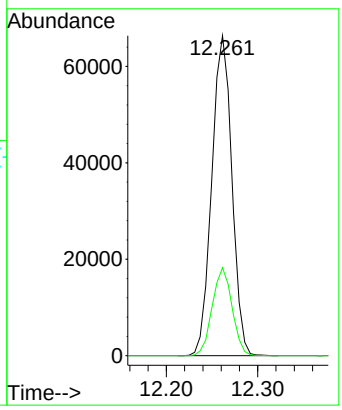


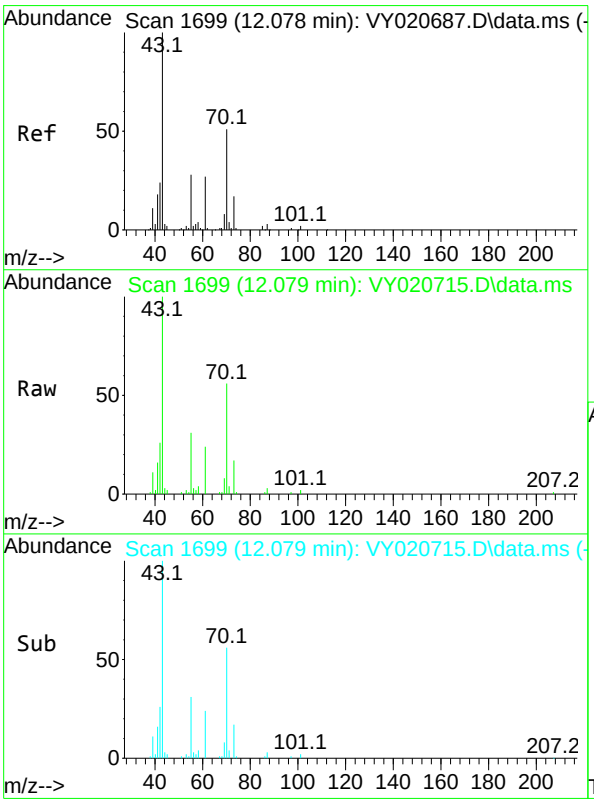

#73
Isopropylbenzene
Concen: 19.780 ug/l
RT: 12.261 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:105 Resp: 101462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.0 | 13.3 | 39.9 |

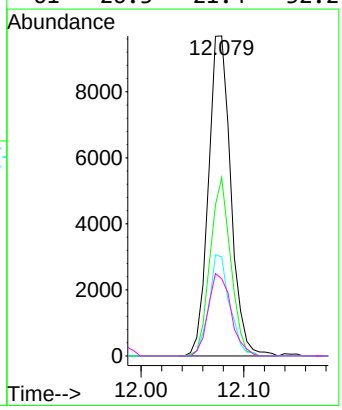


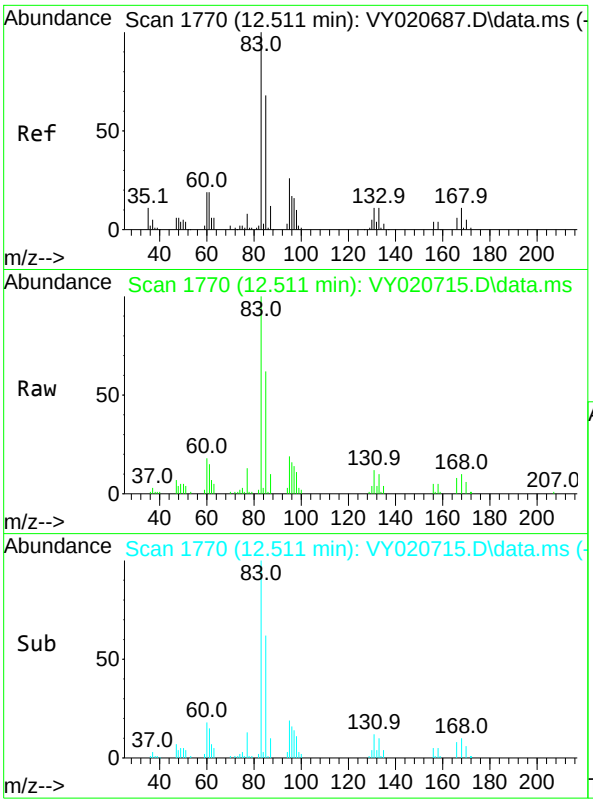




#74
N-amyl acetate
Concen: 20.191 ug/l
RT: 12.079 min Scan# 1699
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 43 Resp: 14718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.8 | 39.7 | 59.5 |
| 55 | 29.3 | 21.5 | 32.3 |
| 61 | 26.3 | 21.4 | 32.2 |



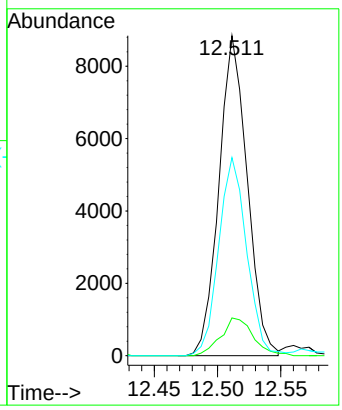


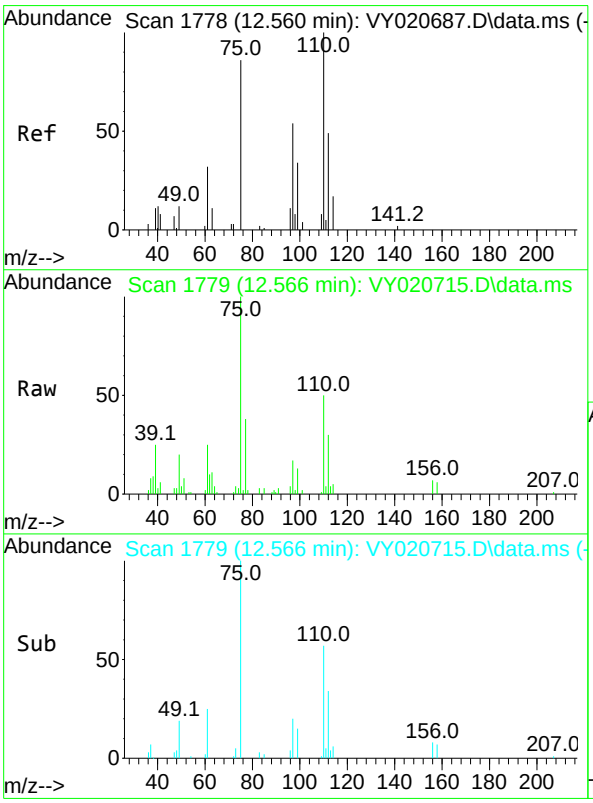

#75
1,1,2,2-Tetrachloroethane
Concen: 20.903 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 83 Resp: 13746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 13.5 | 6.9 | 20.7 |
| 85 | 61.3 | 32.5 | 97.4 |

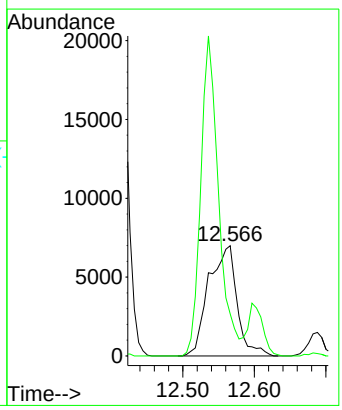


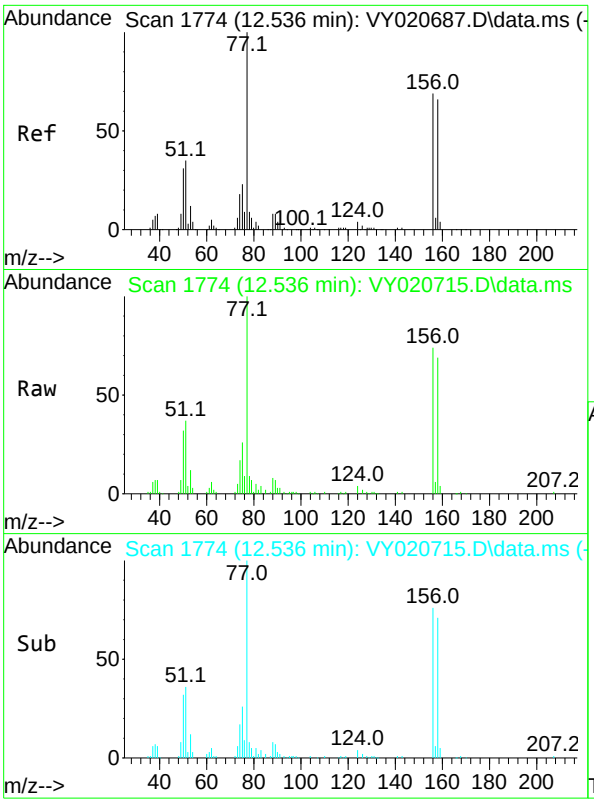




#76
1,2,3-Trichloropropane
Concen: 40.896 ug/l
RT: 12.566 min Scan# 1779
Delta R.T. 0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 75 Resp: 19258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



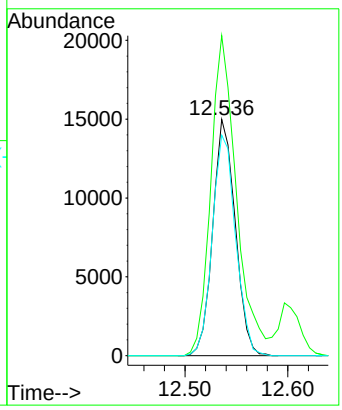


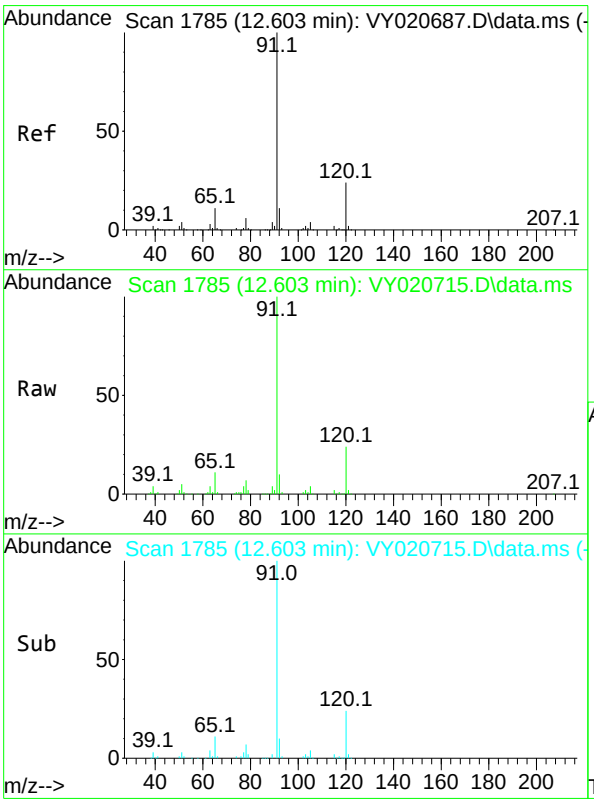

#77
Bromobenzene
Concen: 19.276 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:156 Resp: 22761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 154.2 | 78.3 | 235.0 |
| 158 | 97.1 | 48.3 | 144.9 |

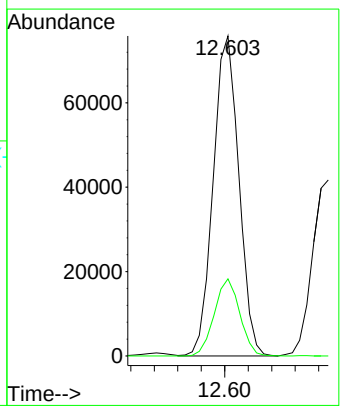


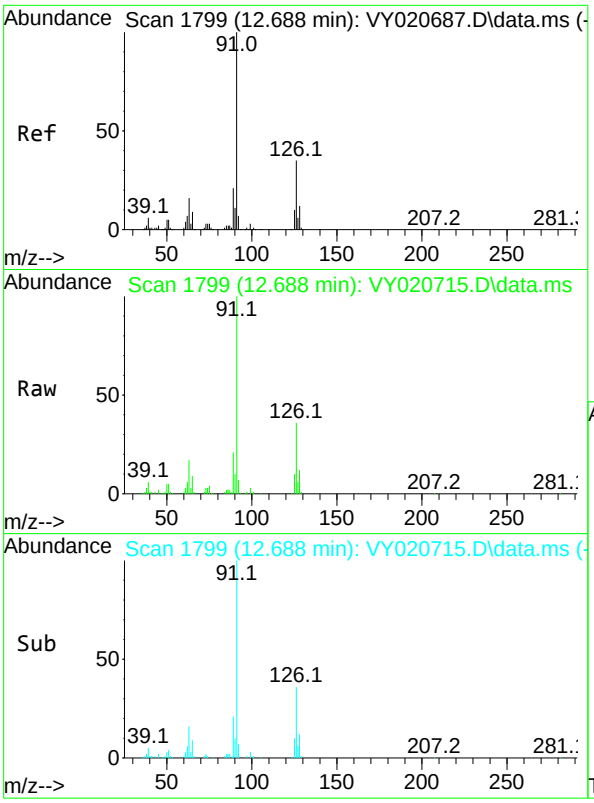




#78
n-propylbenzene
Concen: 19.993 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 91 Resp: 114949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.9 | 12.3 | 36.8 |



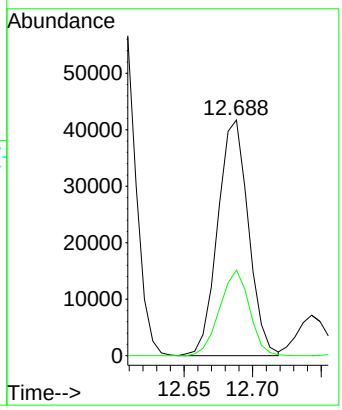


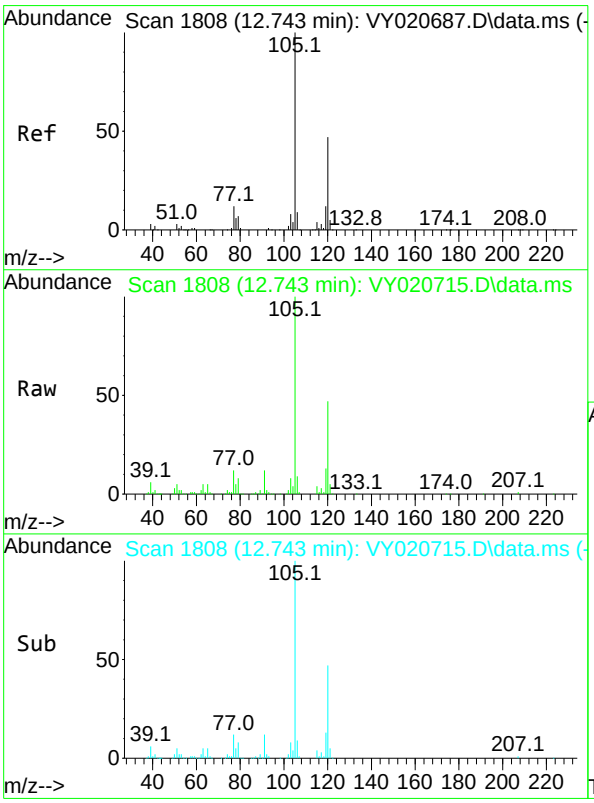

#79
2-Chlorotoluene
Concen: 19.862 ug/l
RT: 12.688 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 91 Resp: 65099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.0 | 17.8 | 53.3 |

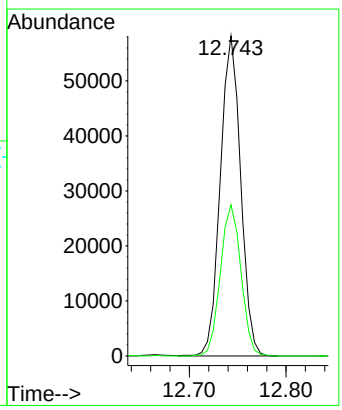


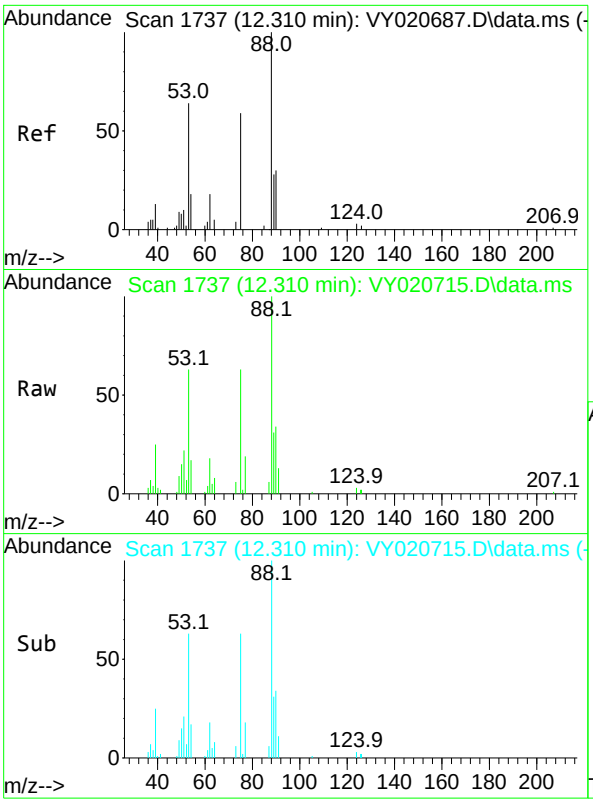




#80
1,3,5-Trimethylbenzene
Concen: 19.855 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:105 Resp: 84854

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 23.9 | 71.7 |



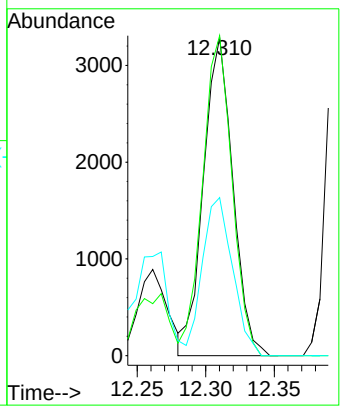


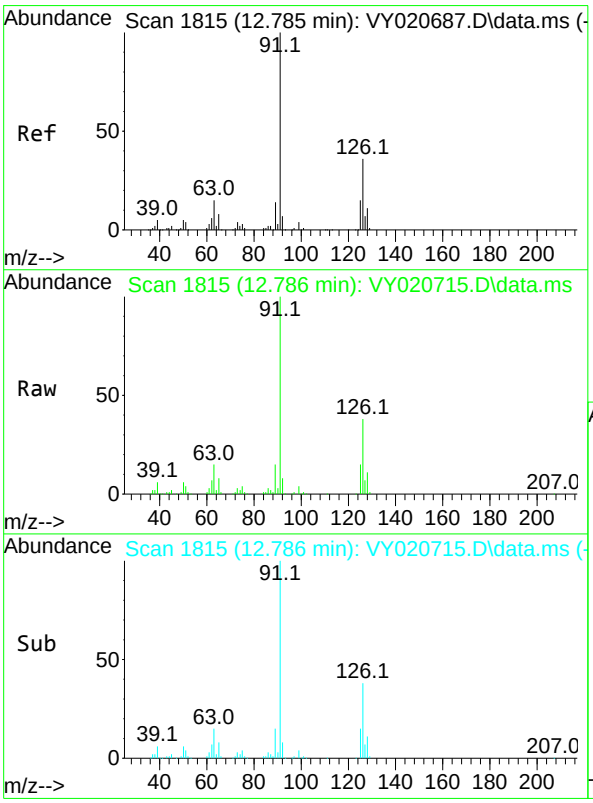

#81
trans-1,4-Dichloro-2-butene
Concen: 20.601 ug/l
RT: 12.310 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 75 Resp: 4908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 100.3 | 83.1 | 124.7 |
| 89 | 50.8 | 40.6 | 61.0 |

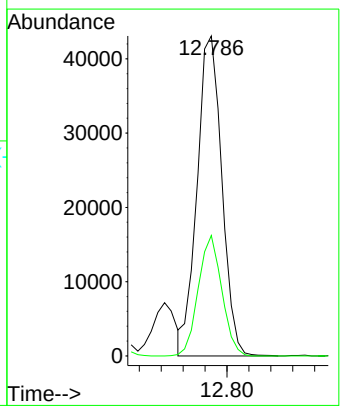


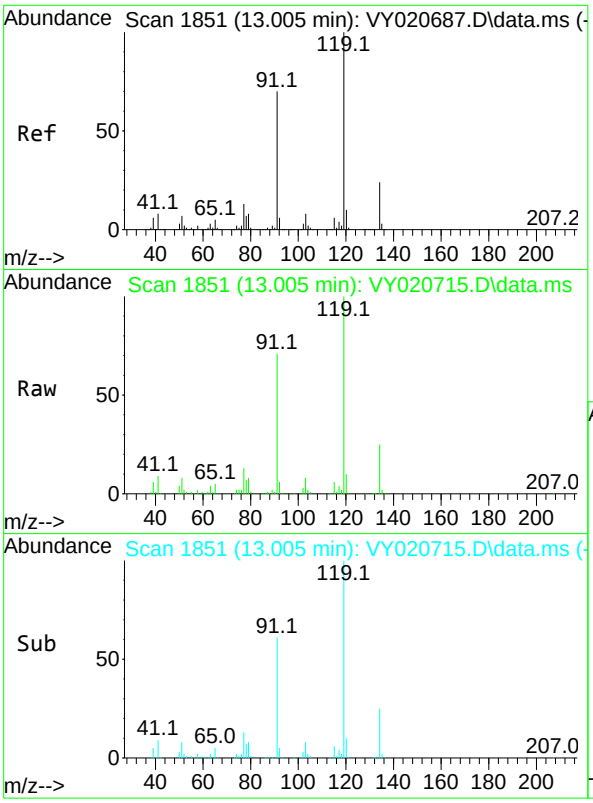




#82
4-Chlorotoluene
Concen: 19.951 ug/l
RT: 12.786 min Scan# 1815
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 91 Resp: 67579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.8 | 17.8 | 53.5 |



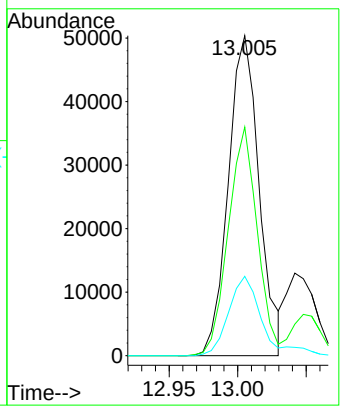


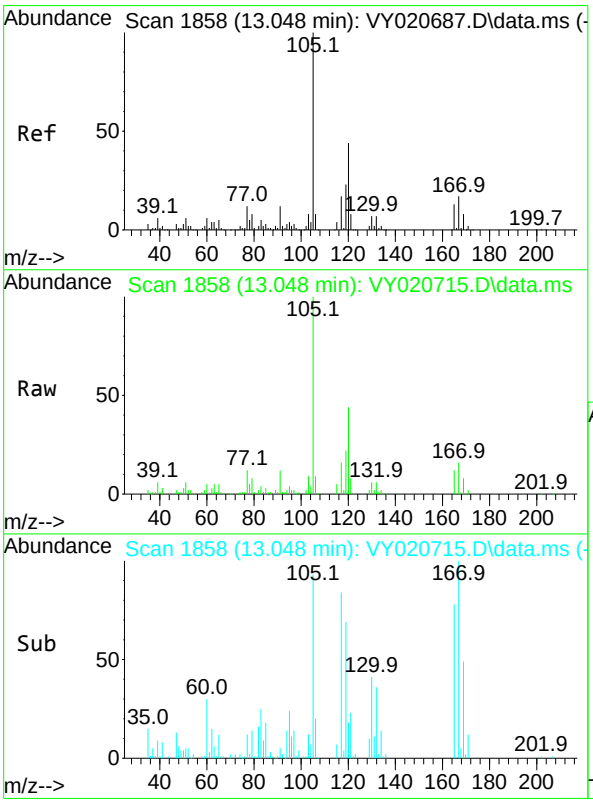

#83
tert-Butylbenzene
Concen: 19.784 ug/l
RT: 13.005 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:119 Resp: 78963

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.1 | 33.6 | 100.8 |
| 134 | 26.7 | 13.4 | 40.2 |

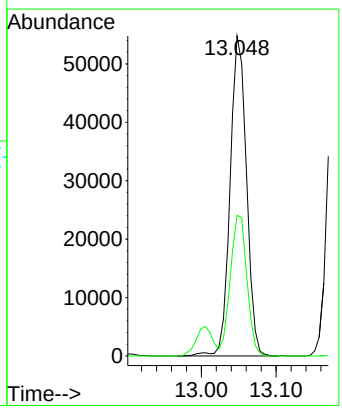


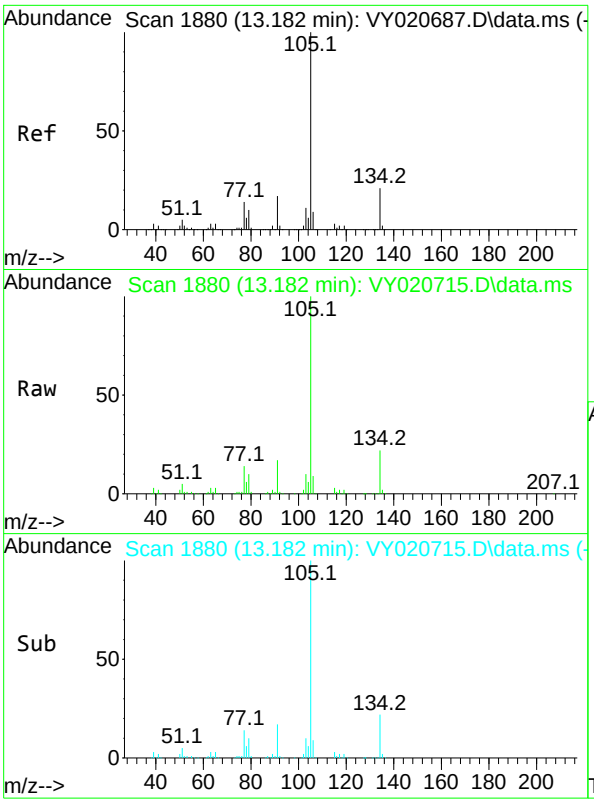




#84
1,2,4-Trimethylbenzene
Concen: 20.030 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:105 Resp: 83301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.5 | 21.8 | 65.3 |



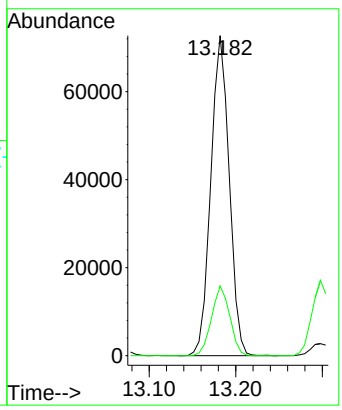


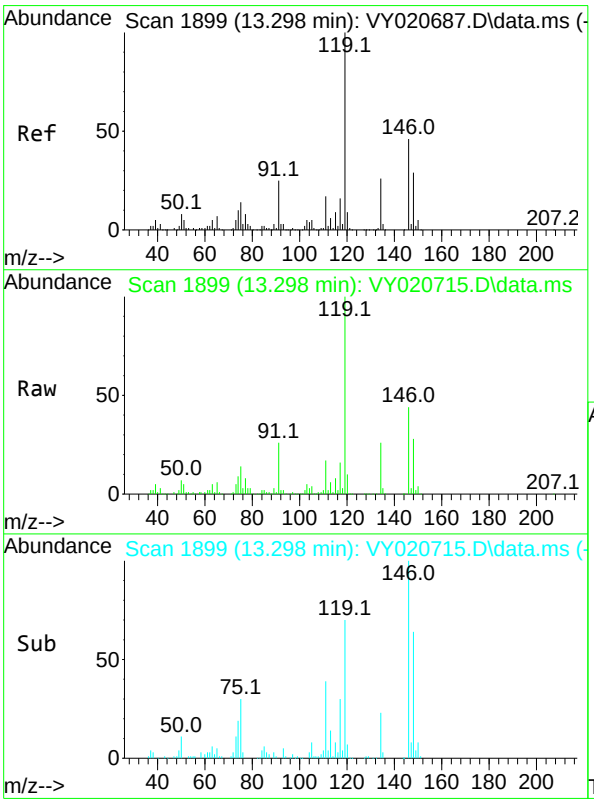

#85
sec-Butylbenzene
Concen: 19.960 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:105 Resp: 107364

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.5 | 10.7 | 32.1 |

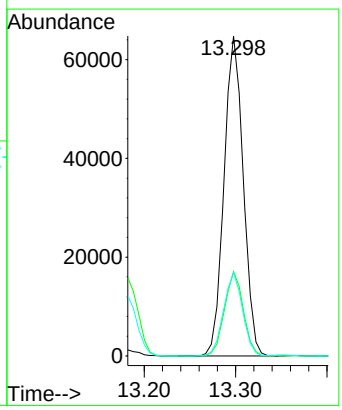


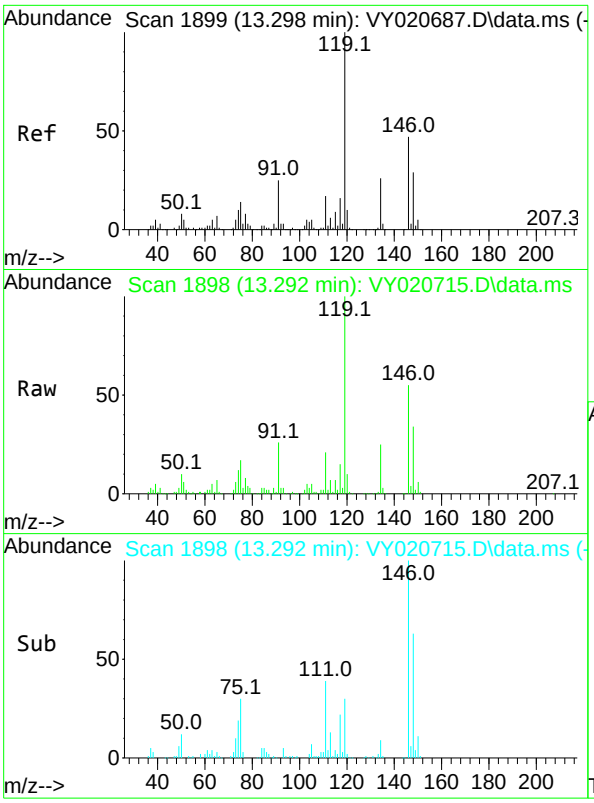




#86
p-Isopropyltoluene
Concen: 19.792 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:119 Resp: 94876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 13.4 | 40.2 |
| 91 | 25.7 | 12.9 | 38.6 |



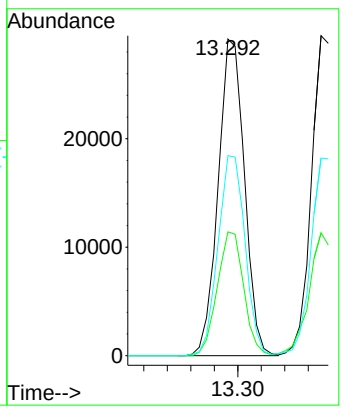


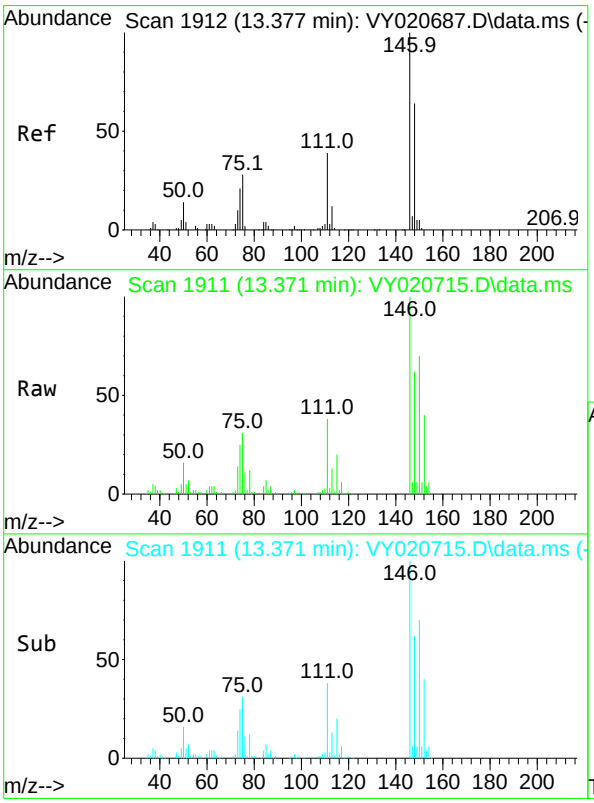

#87
1,3-Dichlorobenzene
Concen: 19.696 ug/l
RT: 13.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:146 Resp: 45455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.3 | 57.8 |
| 148 | 64.9 | 31.1 | 93.5 |

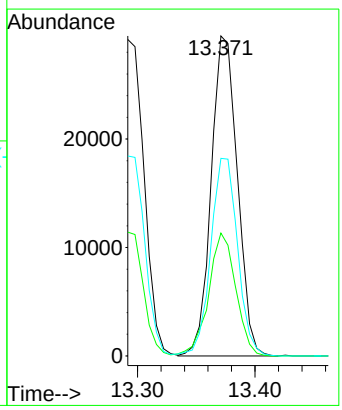


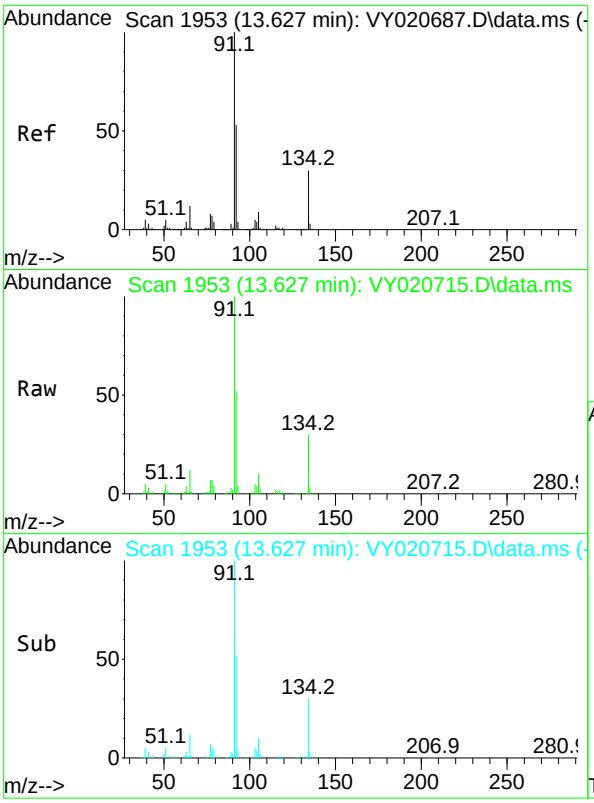




#88
1,4-Dichlorobenzene
Concen: 19.948 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:146 Resp: 45797

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.9 | 19.7 | 59.0 |
| 148 | 63.3 | 32.8 | 98.3 |



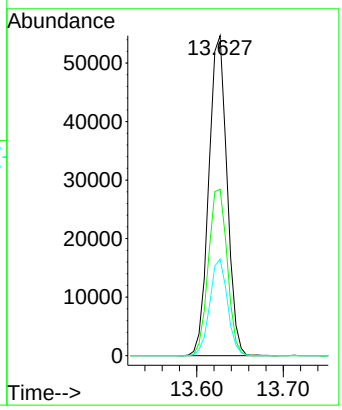


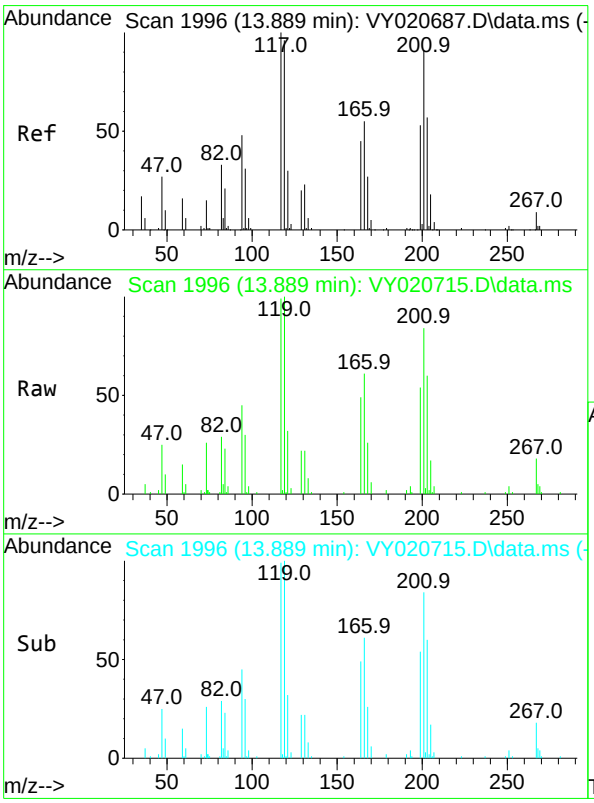

#89
n-Butylbenzene
Concen: 19.949 ug/l
RT: 13.627 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion: 91 Resp: 79827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.8 | 26.1 | 78.2 |
| 134 | 29.3 | 14.8 | 44.4 |

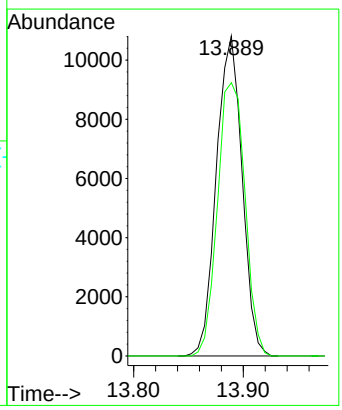


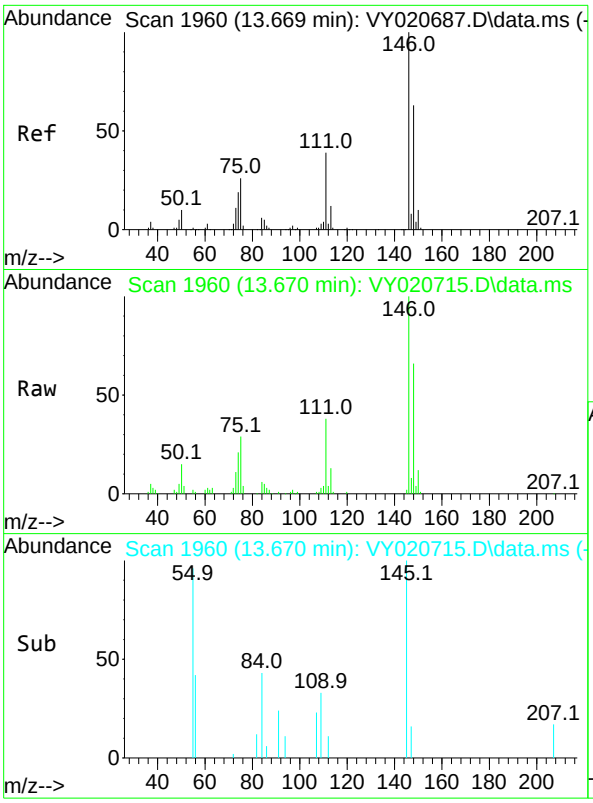




#90
Hexachloroethane
Concen: 19.307 ug/l
RT: 13.889 min Scan# 1996
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:117 Resp: 17599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 91.6 | 44.9 | 134.7 |



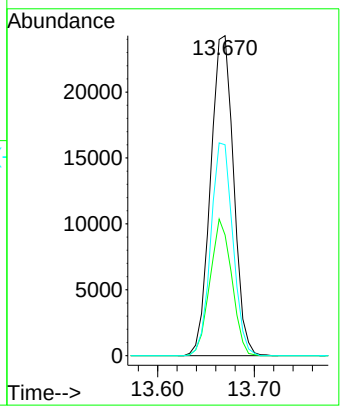


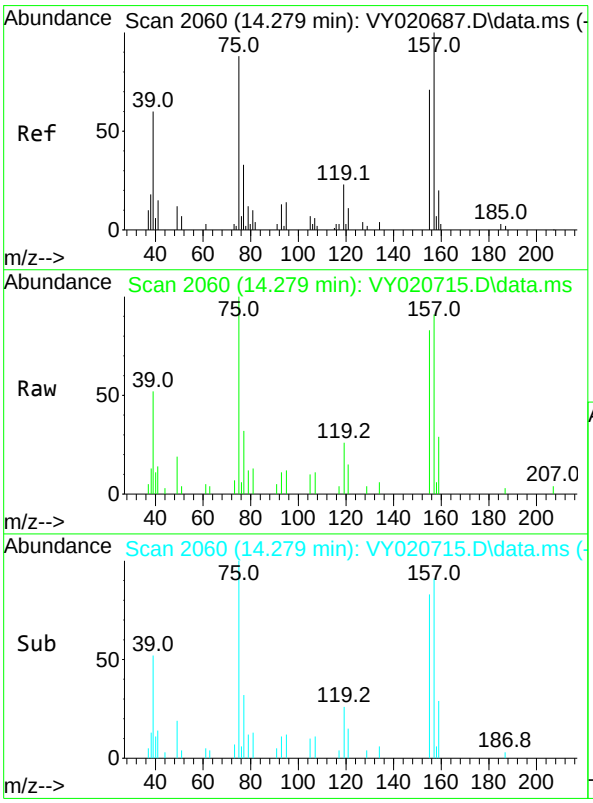

#91
1,2-Dichlorobenzene
Concen: 20.294 ug/l
RT: 13.670 min Scan# 1
Delta R.T. 0.001 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:146 Resp: 40158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.3 | 20.3 | 60.8 |
| 148 | 63.7 | 31.9 | 95.5 |

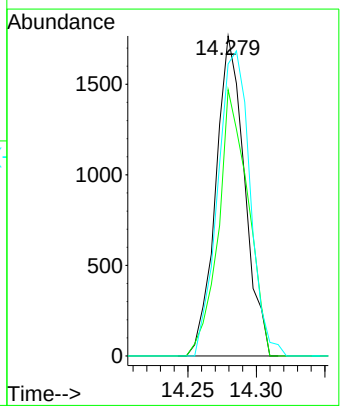


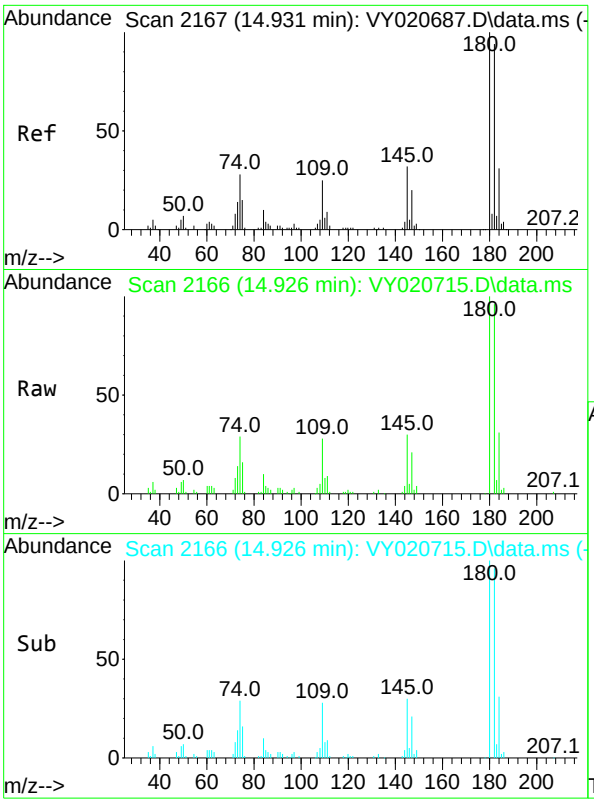




#92
1,2-Dibromo-3-Chloropropane
Concen: 20.237 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion: 75 Resp: 2581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 85.5 | 43.4 | 130.2 |
| 157 | 107.0 | 58.6 | 175.7 |



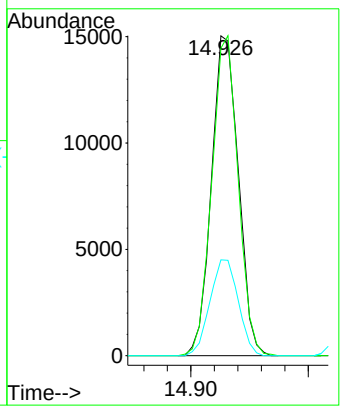


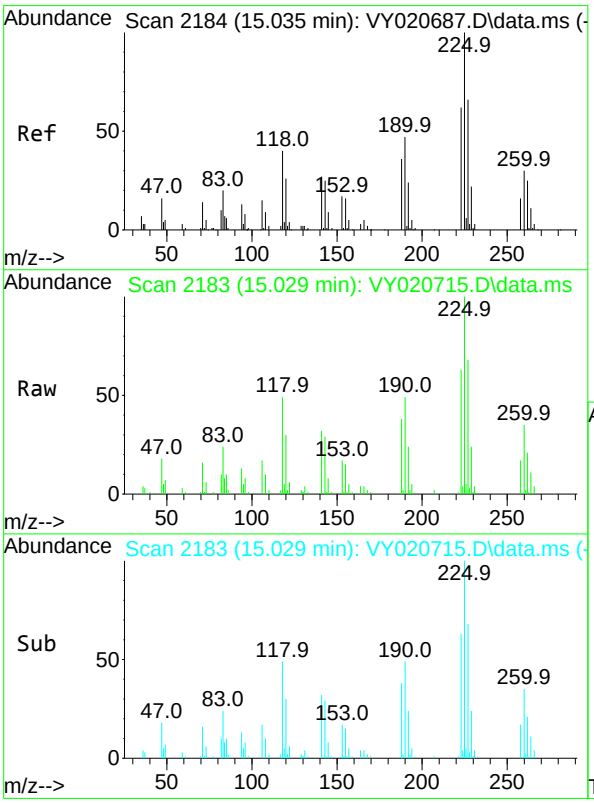

#93
1,2,4-Trichlorobenzene
Concen: 19.039 ug/l
RT: 14.926 min Scan# 21
Delta R.T. -0.005 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:180 Resp: 23946

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.8 | 47.9 | 143.7 |
| 145 | 31.6 | 15.6 | 46.8 |

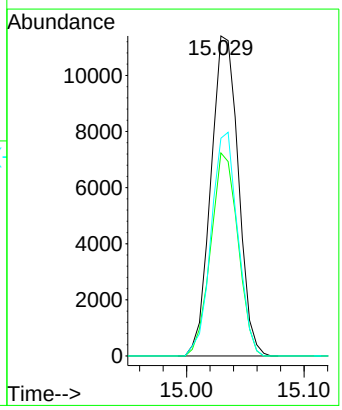


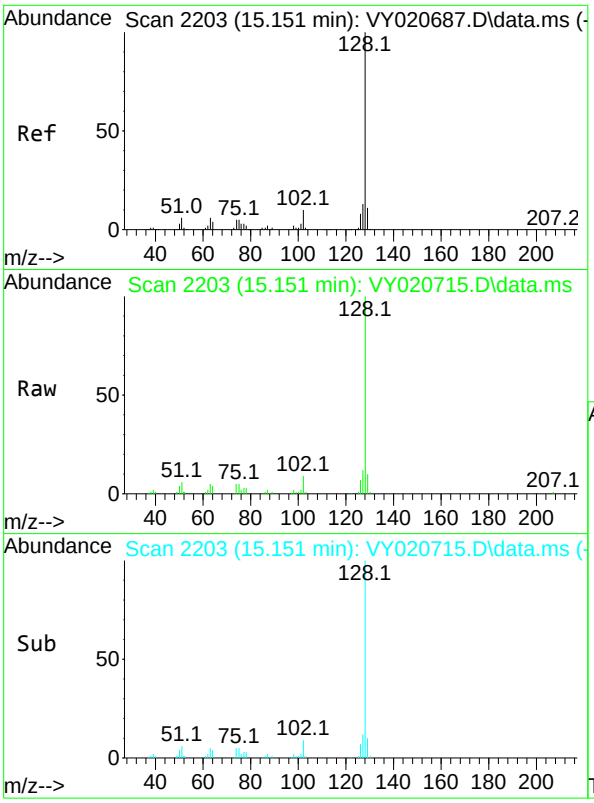




#94
Hexachlorobutadiene
Concen: 20.177 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:225 Resp: 18496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 31.3 | 93.8 |
| 227 | 67.7 | 32.1 | 96.5 |



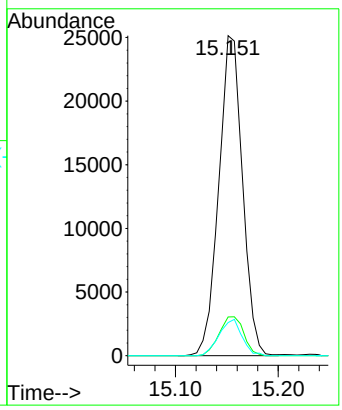


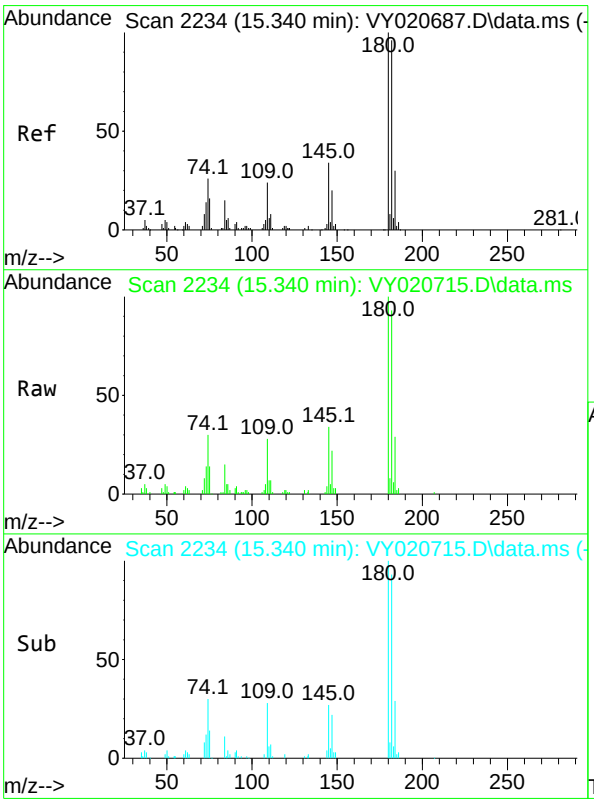

#95
Naphthalene
Concen: 20.005 ug/l
RT: 15.151 min Scan# 2
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBS01

Tgt Ion:128 Resp: 40300

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.7 | 16.1 |
| 129 | 11.0 | 8.6 | 12.8 |

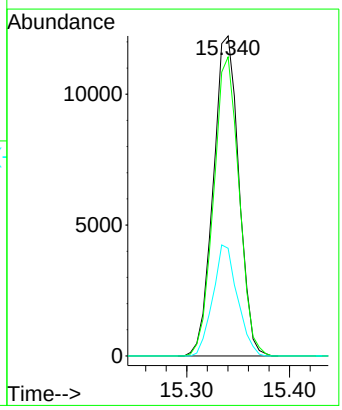



#96
1,2,3-Trichlorobenzene
Concen: 20.151 ug/l
RT: 15.340 min Scan# 2234
Delta R.T. 0.000 min
Lab File: VY020715.D
Acq: 26 Dec 2024 14:32

Tgt Ion:180 Resp: 21103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.6 | 47.4 | 142.2 |
| 145 | 33.4 | 16.7 | 50.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020716.D
Acq On : 26 Dec 2024 14:54
Operator : SY/MD
Sample : VY1226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Quant Time: Dec 26 16:20:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 115773 | 50.000 | ug/l | | -0.01 |
| 34) 1,4-Difluorobenzene | 8.622 | 114 | 164224 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 140702 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.353 | 152 | 73666 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 54334 | 57.297 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 114.600% | | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 48081 | 53.153 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 106.300% | | | | |
| 50) Toluene-d8 | 10.109 | 98 | 187843 | 52.144 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 104.280% | | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 63630 | 52.931 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 105.860% | | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.873 | 85 | 17441 | 19.139 | ug/l | | 98 |
| 3) Chloromethane | 2.074 | 50 | 6322 | 18.602 | ug/l | | 98 |
| 4) Vinyl Chloride | 2.208 | 62 | 7607 | 18.066 | ug/l | | 99 |
| 5) Bromomethane | 2.598 | 94 | 6224 | 19.577 | ug/l | | 99 |
| 6) Chloroethane | 2.739 | 64 | 4905 | 19.418 | ug/l | # | 79 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 30303 | 18.714 | ug/l | | 98 |
| 8) Diethyl Ether | 3.464 | 74 | 7587 | 19.690 | ug/l | | 92 |
| 9) 1,1,2-Trichlorotrifluo... | 3.818 | 101 | 17468 | 19.650 | ug/l | | 98 |
| 10) Methyl Iodide | 4.013 | 142 | 17994 | 18.511 | ug/l | | 99 |
| 11) Tert butyl alcohol | 4.878 | 59 | 7675 | 118.687 | ug/l | # | 86 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 14934 | 18.874 | ug/l | | 95 |
| 13) Acrolein | 3.659 | 56 | 2748 | 138.625 | ug/l | | 94 |
| 14) Allyl chloride | 4.397 | 41 | 17724 | 19.142 | ug/l | | 97 |
| 15) Acrylonitrile | 5.061 | 53 | 15350 | 103.122 | ug/l | | 97 |
| 16) Acetone | 3.879 | 43 | 11944 | 99.286 | ug/l | | 90 |
| 17) Carbon Disulfide | 4.116 | 76 | 34956 | 18.010 | ug/l | # | 95 |
| 18) Methyl Acetate | 4.397 | 43 | 6556 | 20.136 | ug/l | | 97 |
| 19) Methyl tert-butyl Ether | 5.128 | 73 | 45438 | 20.603 | ug/l | | 98 |
| 20) Methylene Chloride | 4.622 | 84 | 15375 | 19.651 | ug/l | | 91 |
| 21) trans-1,2-Dichloroethene | 5.128 | 96 | 16474 | 19.321 | ug/l | | 95 |
| 22) Diisopropyl ether | 6.031 | 45 | 38970 | 20.704 | ug/l | | 95 |
| 23) Vinyl Acetate | 5.970 | 43 | 116491 | 103.614 | ug/l | | 100 |
| 24) 1,1-Dichloroethane | 5.921 | 63 | 28192 | 19.977 | ug/l | | 99 |
| 25) 2-Butanone | 6.902 | 43 | 17284 | 106.360 | ug/l | | 96 |
| 26) 2,2-Dichloropropane | 6.896 | 77 | 33722 | 19.523 | ug/l | | 100 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 20089 | 19.674 | ug/l | | 99 |
| 28) Bromochloromethane | 7.256 | 49 | 6573 | 17.613 | ug/l | | 94 |
| 29) Tetrahydrofuran | 7.268 | 42 | 10662 | 106.889 | ug/l | | 96 |
| 30) Chloroform | 7.433 | 83 | 36048 | 19.857 | ug/l | | 95 |
| 31) Cyclohexane | 7.713 | 56 | 23333 | 19.155 | ug/l | # | 94 |
| 32) 1,1,1-Trichloroethane | 7.628 | 97 | 37936 | 19.495 | ug/l | | 98 |
| 36) 1,1-Dichloropropene | 7.847 | 75 | 22746 | 19.036 | ug/l | | 98 |
| 37) Ethyl Acetate | 7.000 | 43 | 8095 | 20.559 | ug/l | # | 96 |
| 38) Carbon Tetrachloride | 7.829 | 117 | 37355 | 18.985 | ug/l | | 96 |
| 39) Methylcyclohexane | 9.115 | 83 | 29413 | 19.205 | ug/l | | 95 |
| 40) Benzene | 8.085 | 78 | 67196 | 19.404 | ug/l | | 98 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020716.D
Acq On : 26 Dec 2024 14:54
Operator : SY/MD
Sample : VY1226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Quant Time: Dec 26 16:20:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 3914 | 19.679 ug/l # | 90 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 21623 | 19.473 ug/l | 98 |
| 43) Isopropyl Acetate | 8.201 | 43 | 17100 | 20.432 ug/l # | 88 |
| 44) Trichloroethene | 8.872 | 130 | 20239 | 19.567 ug/l | 96 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 13502 | 19.262 ug/l | 97 |
| 46) Dibromomethane | 9.237 | 93 | 9888 | 20.387 ug/l | 98 |
| 47) Bromodichloromethane | 9.426 | 83 | 26772 | 19.469 ug/l | 96 |
| 48) Methyl methacrylate | 9.225 | 41 | 7800 | 19.957 ug/l | 99 |
| 49) 1,4-Dioxane | 9.231 | 88 | 2134 | 461.904 ug/l # | 87 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 42327 | 104.782 ug/l | 99 |
| 52) Toluene | 10.176 | 92 | 46778 | 19.709 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 24006 | 19.877 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 26559 | 20.063 ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 10.573 | 97 | 12818 | 20.704 ug/l | 95 |
| 56) Ethyl methacrylate | 10.445 | 69 | 16409 | 20.175 ug/l | 99 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 20462 | 20.363 ug/l | 97 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 29367 | 103.542 ug/l | 99 |
| 59) 2-Hexanone | 10.762 | 43 | 28166 | 105.605 ug/l | 100 |
| 60) Dibromochloromethane | 10.914 | 129 | 20157 | 20.149 ug/l | 100 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 11828 | 20.304 ug/l | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 18659 | 19.410 ug/l | 99 |
| 65) Chlorobenzene | 11.444 | 112 | 55362 | 20.095 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 21331 | 19.985 ug/l | 98 |
| 67) Ethyl Benzene | 11.524 | 91 | 94825 | 19.693 ug/l | 97 |
| 68) m/p-Xylenes | 11.633 | 106 | 73507 | 40.019 ug/l | 99 |
| 69) o-Xylene | 11.956 | 106 | 34142 | 19.455 ug/l | 96 |
| 70) Styrene | 11.975 | 104 | 58678 | 19.918 ug/l | 99 |
| 71) Bromoform | 12.139 | 173 | 12816 | 20.885 ug/l # | 94 |
| 73) Isopropylbenzene | 12.255 | 105 | 97450 | 19.094 ug/l | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 14818 | 20.431 ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 13020 | 19.900 ug/l | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 19055 | 40.670 ug/l # | 100 |
| 77) Bromobenzene | 12.536 | 156 | 22787 | 19.396 ug/l | 99 |
| 78) n-propylbenzene | 12.597 | 91 | 110719 | 19.355 ug/l | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 63619 | 19.509 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.743 | 105 | 82956 | 19.509 ug/l | 98 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 4691 | 19.790 ug/l | 96 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 64772 | 19.219 ug/l | 99 |
| 83) tert-Butylbenzene | 12.999 | 119 | 78168 | 19.685 ug/l | 97 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 81496 | 19.695 ug/l | 98 |
| 85) sec-Butylbenzene | 13.182 | 105 | 104334 | 19.495 ug/l | 99 |
| 86) p-Isopropyltoluene | 13.298 | 119 | 91757 | 19.238 ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 45422 | 19.781 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 44221 | 19.360 ug/l | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 77813 | 19.544 ug/l | 100 |
| 90) Hexachloroethane | 13.883 | 117 | 16909 | 18.644 ug/l | 96 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 39466 | 20.046 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 2690 | 21.198 ug/l | 97 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 24888 | 19.888 ug/l | 98 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 17981 | 19.715 ug/l | 98 |
| 95) Naphthalene | 15.151 | 128 | 39363 | 19.639 ug/l | 98 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 20507 | 19.681 ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020716.D
Acq On : 26 Dec 2024 14:54
Operator : SY/MD
Sample : VY1226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Quant Time: Dec 26 16:20:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

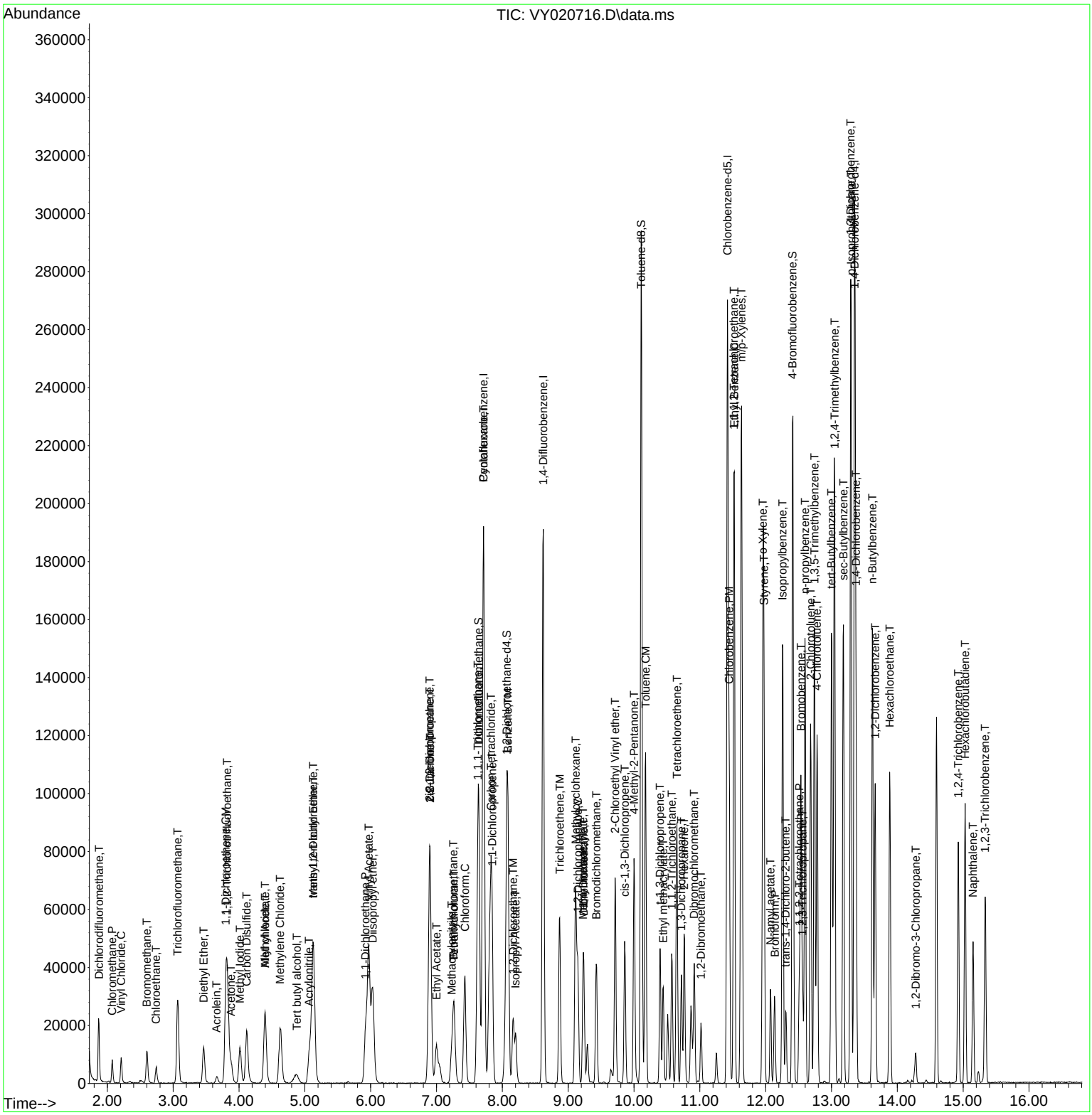
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

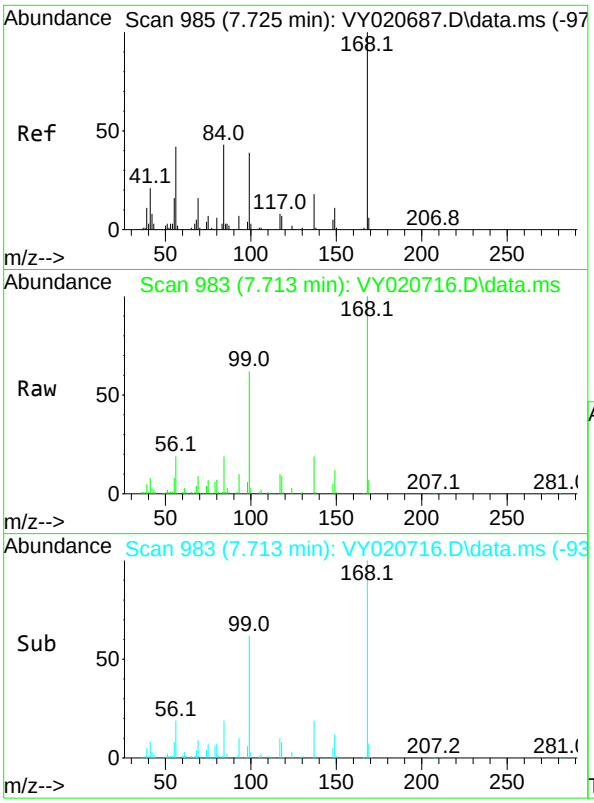
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020716.D
Acq On : 26 Dec 2024 14:54
Operator : SY/MD
Sample : VY1226SBSD01
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Quant Time: Dec 26 16:20:17 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration



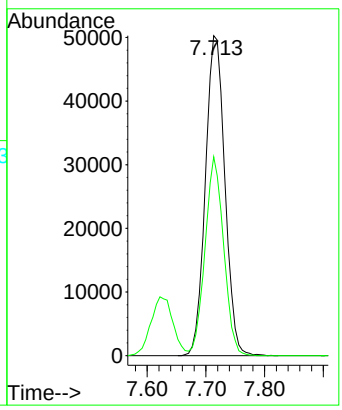


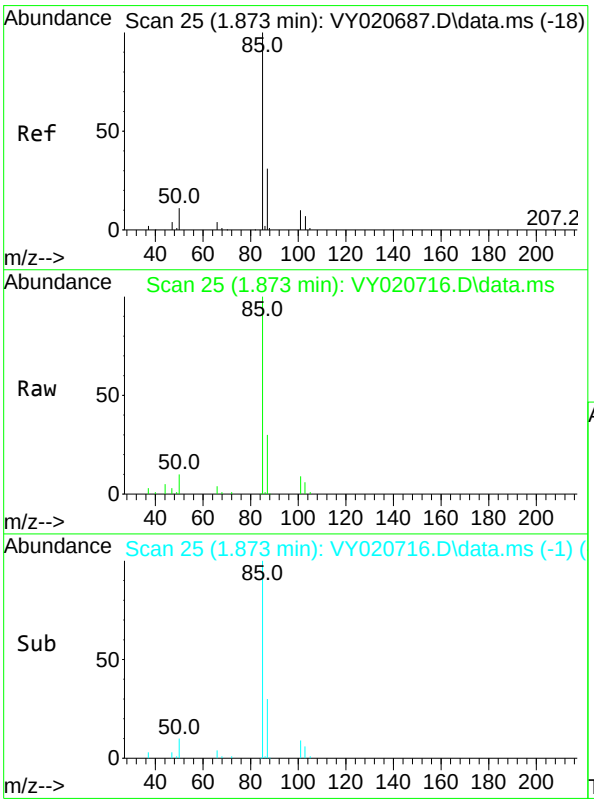

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:168 Resp: 115773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.1 | 43.8 | 65.6 |

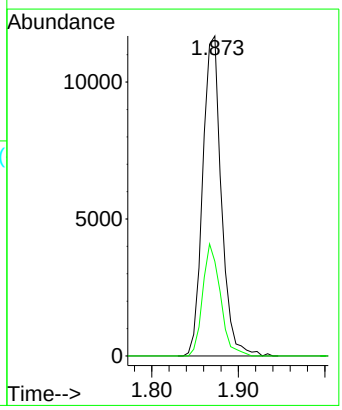


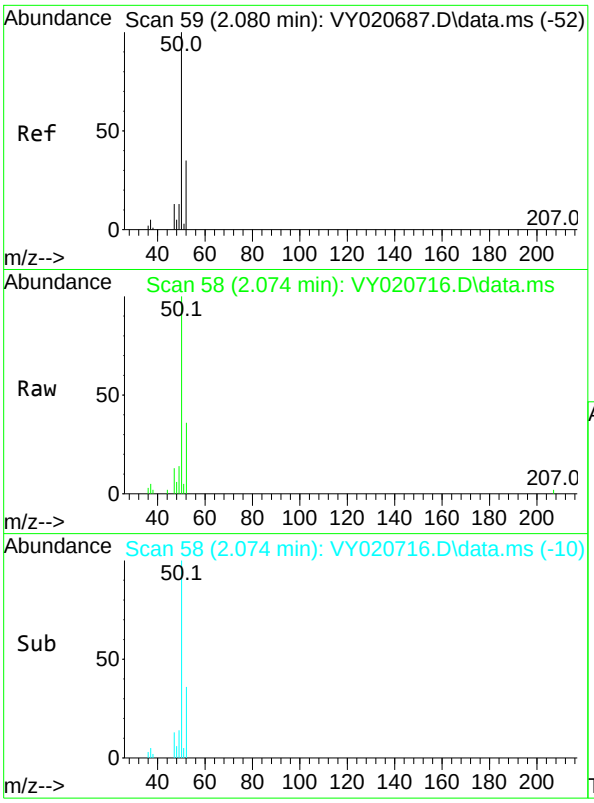




#2
Dichlorodifluoromethane
Concen: 19.139 ug/l
RT: 1.873 min Scan# 25
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 85 Resp: 17441

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 29.6 | 15.4 | 46.4 |



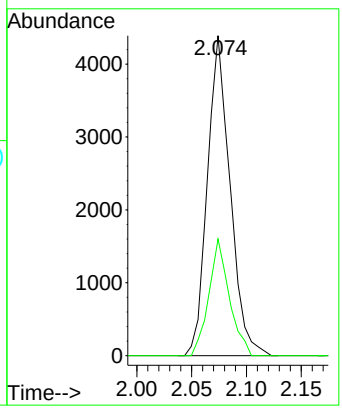


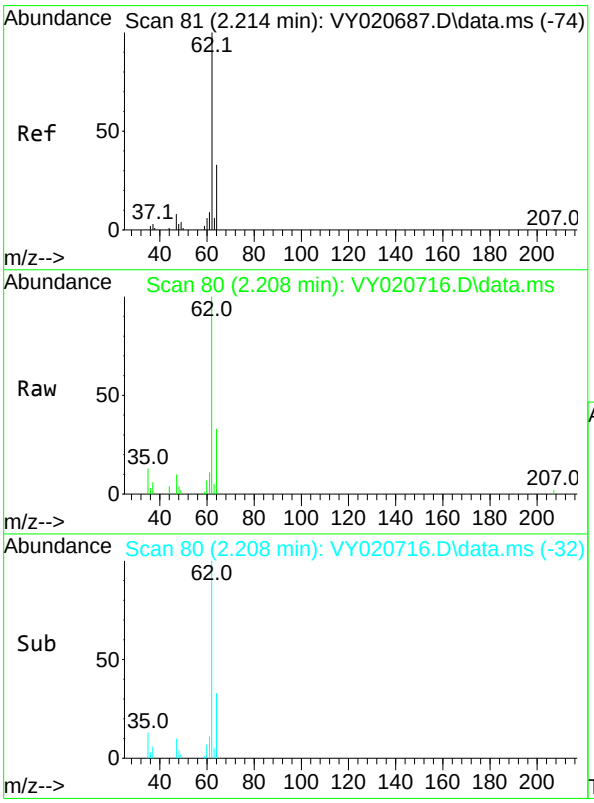

#3
Chloromethane
Concen: 18.602 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 50 Resp: 6322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 36.4 | 28.2 | 42.2 |

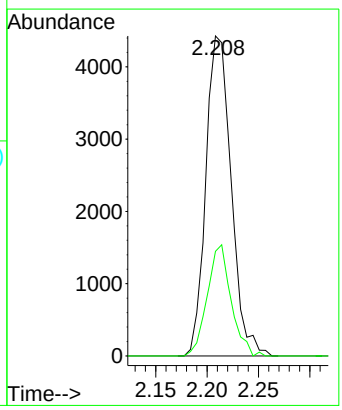


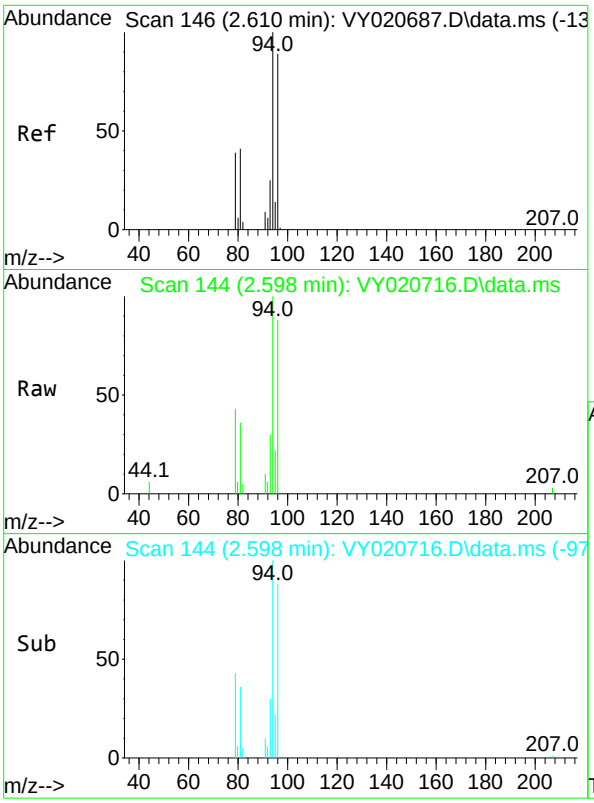




#4
Vinyl Chloride
Concen: 18.066 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 62 Resp: 7607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.7 | 26.6 | 40.0 |



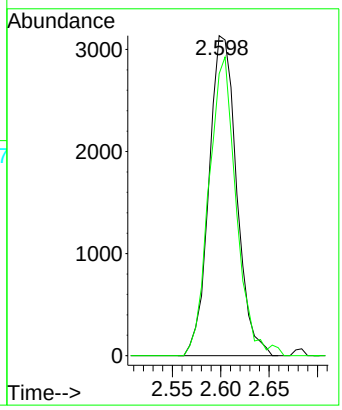


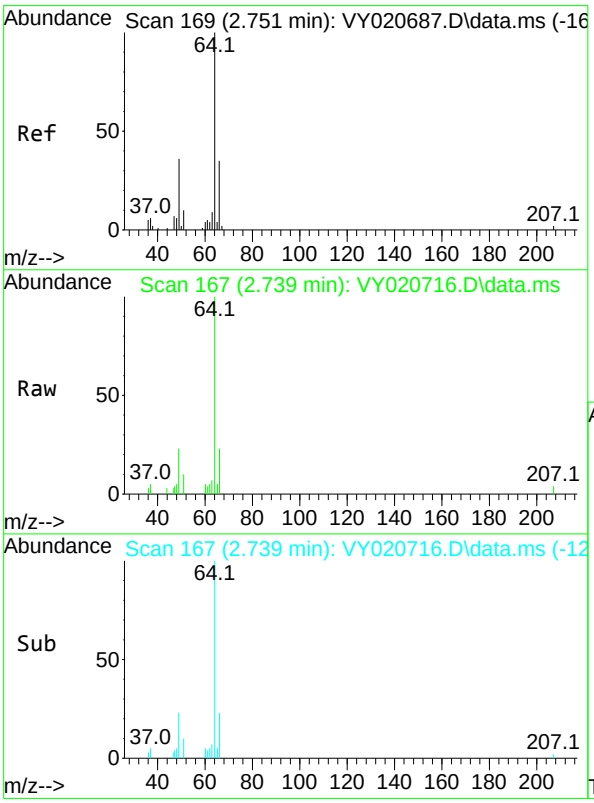

#5
Bromomethane
Concen: 19.577 ug/l
RT: 2.598 min Scan# 14
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 94 Resp: 6224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.1 | 71.0 | 106.6 |

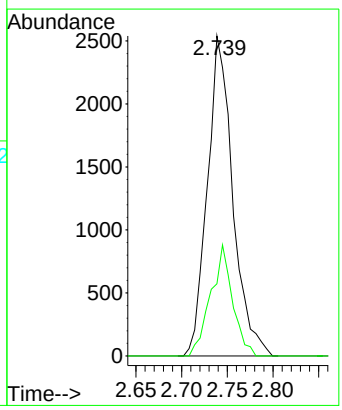


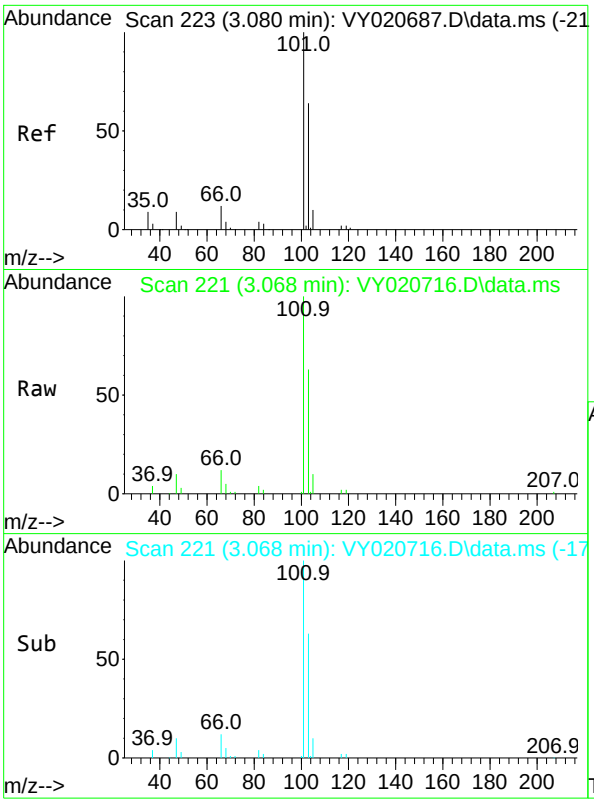




#6
Chloroethane
Concen: 19.418 ug/l
RT: 2.739 min Scan# 167
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 64 Resp: 4905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 22.6 | 27.8 | 41.8# |



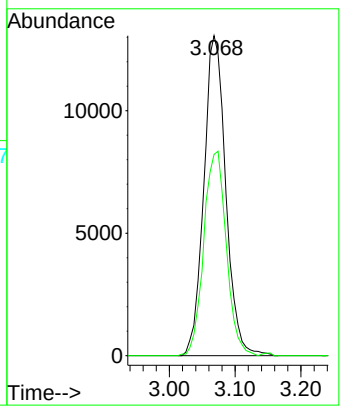


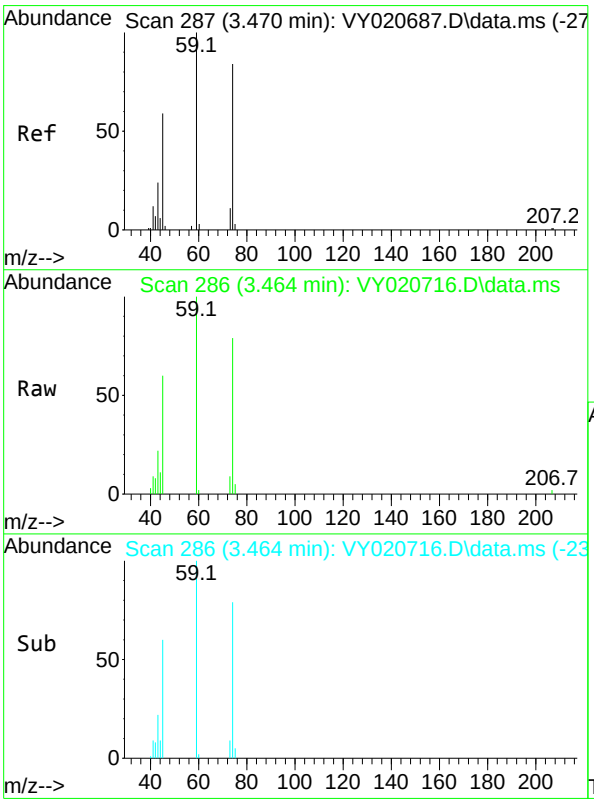

#7
Trichlorofluoromethane
Concen: 18.714 ug/l
RT: 3.068 min Scan# 2
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:101 Resp: 30303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 62.9 | 51.4 | 77.0 |

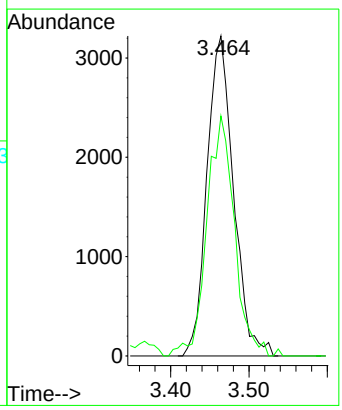


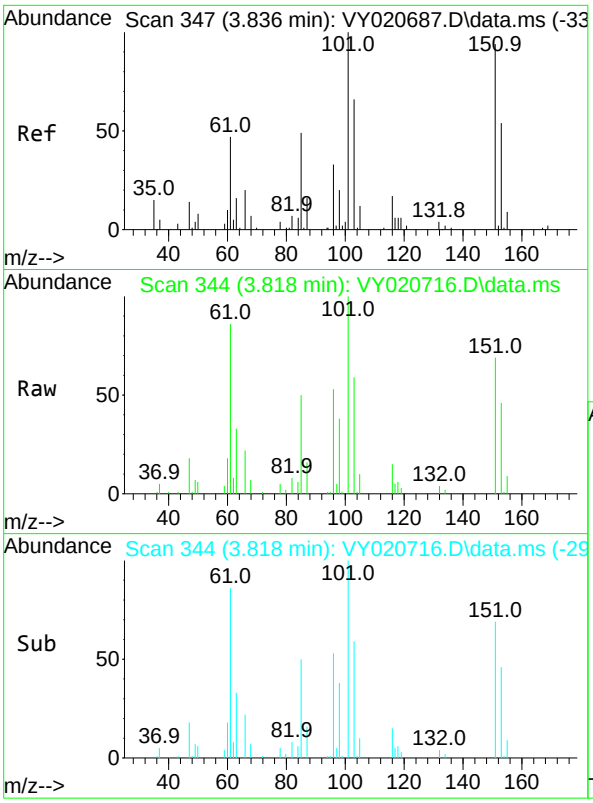




#8
Diethyl Ether
Concen: 19.690 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 74 Resp: 7587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 77.9 | 35.8 | 107.4 |



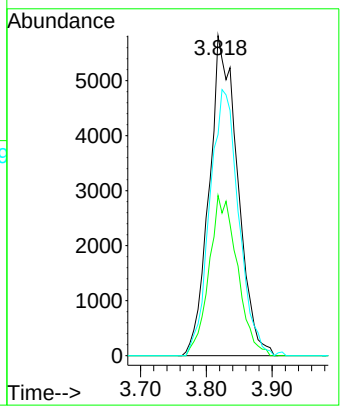


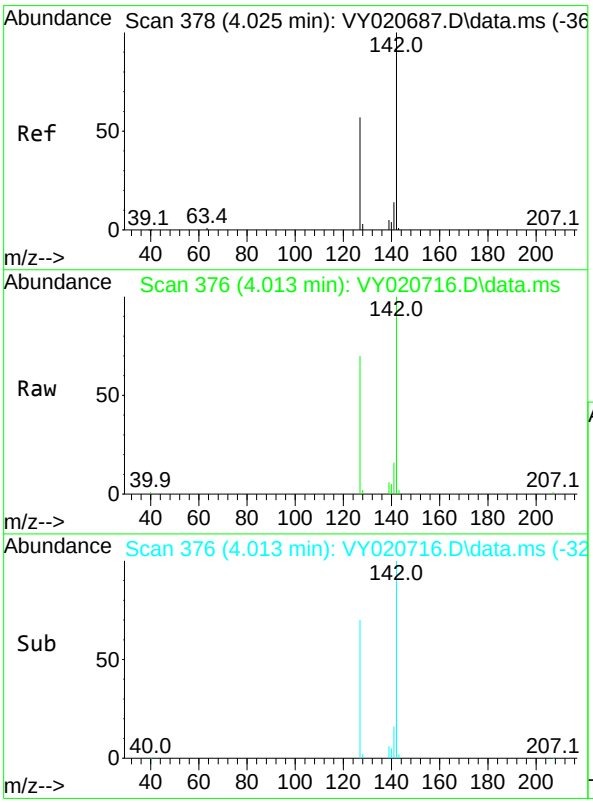

#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.650 ug/l
RT: 3.818 min Scan# 34
Delta R.T. -0.018 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:101 Resp: 17468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 49.6 | 38.2 | 57.2 |
| 151 | 84.6 | 68.4 | 102.6 |

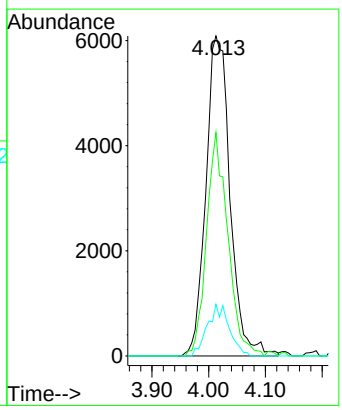


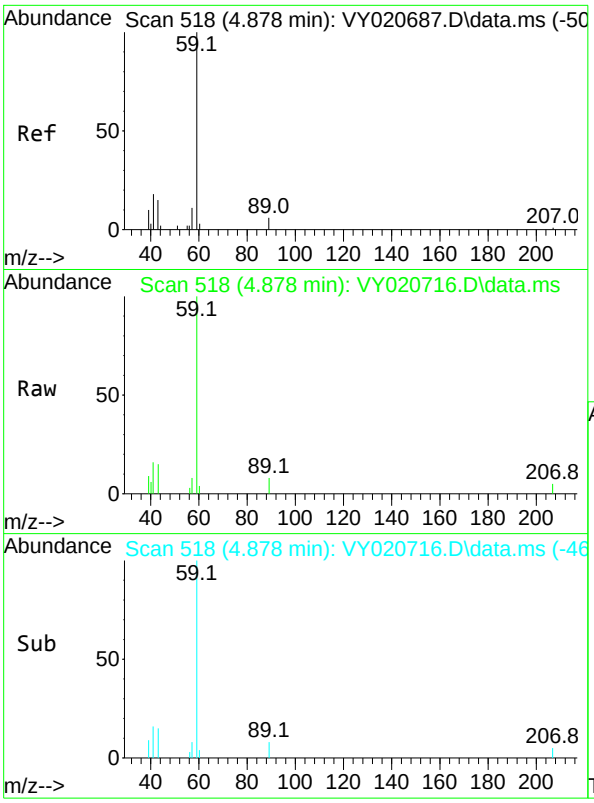




#10
Methyl Iodide
Concen: 18.511 ug/l
RT: 4.013 min Scan# 376
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:142 Resp: 17994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 61.7 | 48.8 | 73.2 |
| 141 | 14.6 | 11.9 | 17.9 |



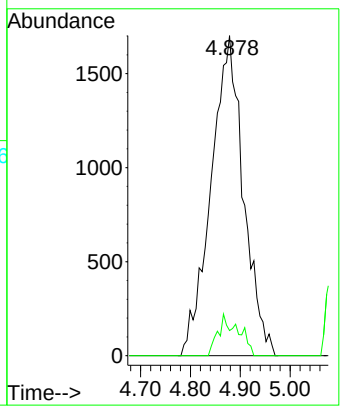


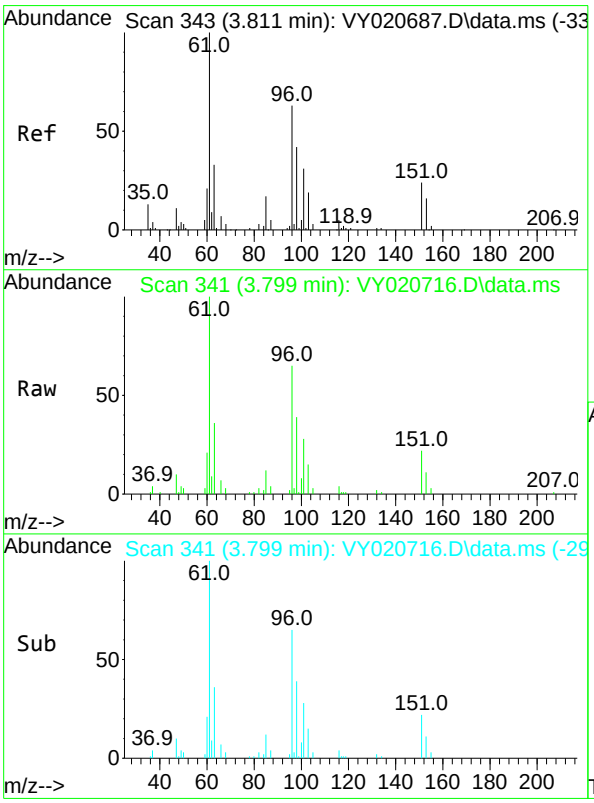

#11
Tert butyl alcohol
Concen: 118.687 ug/l
RT: 4.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 59 Resp: 7675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.1 | 2.8 | 4.2# |

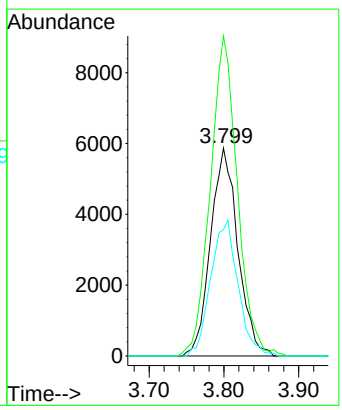


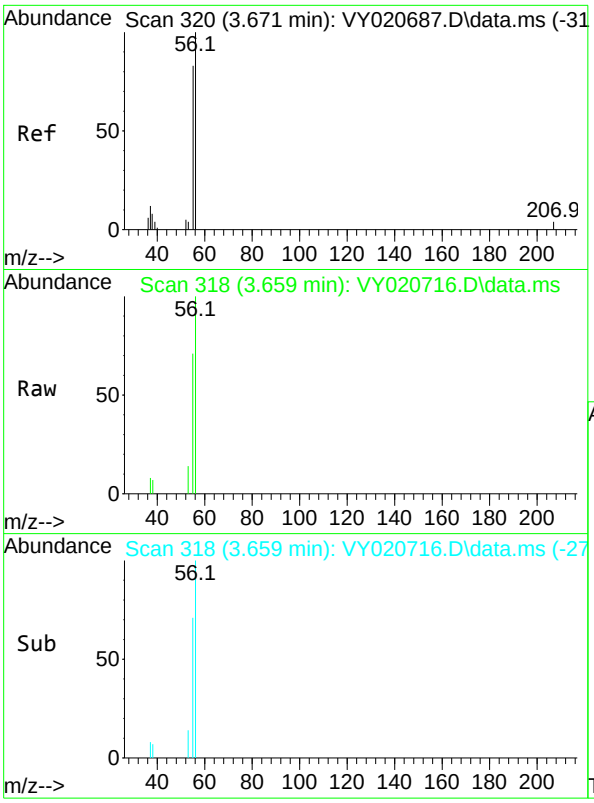




#12
1,1-Dichloroethene
Concen: 18.874 ug/l
RT: 3.799 min Scan# 341
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 96 Resp: 14934

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 154.0 | 127.1 | 190.7 |
| 98 | 60.8 | 53.4 | 80.0 |



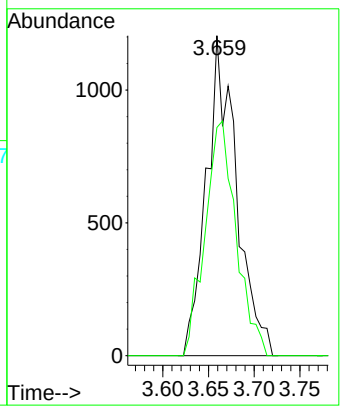


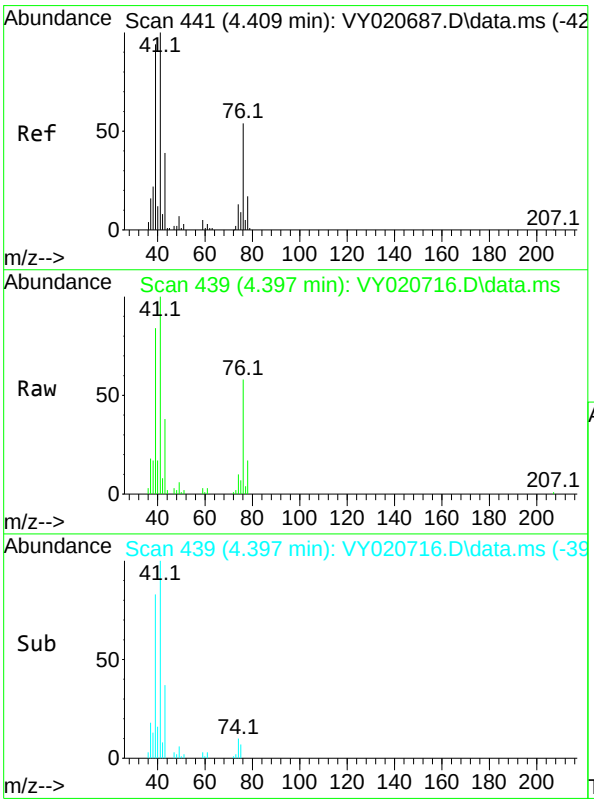

#13
Acrolein
Concen: 138.625 ug/l
RT: 3.659 min Scan# 31
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 56 Resp: 2748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 76.1 | 57.0 | 85.4 |

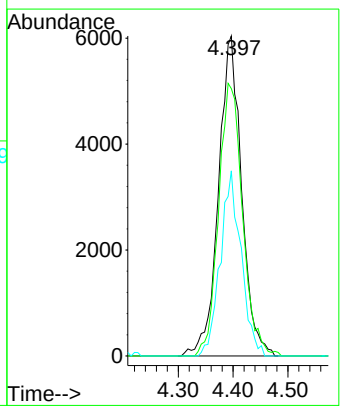


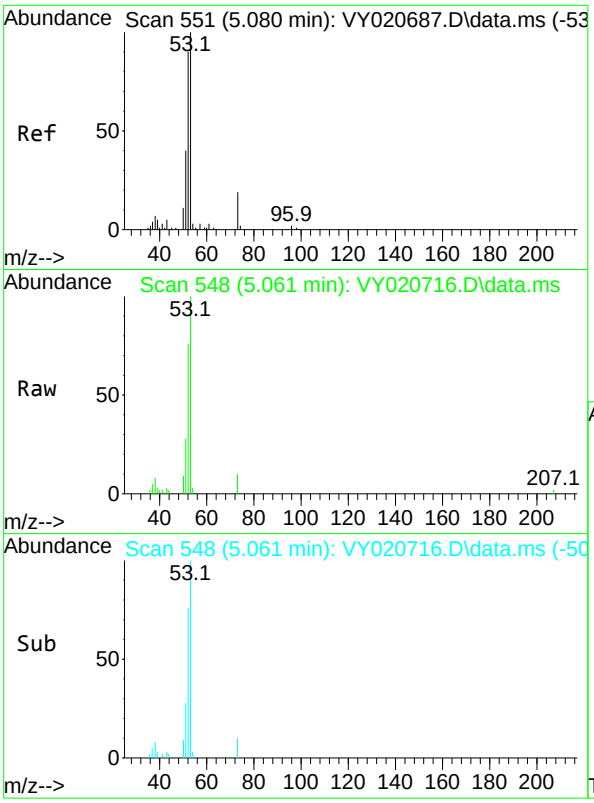




#14
Allyl chloride
Concen: 19.142 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 41 Resp: 17724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 88.0 | 73.5 | 110.3 |
| 76 | 51.8 | 41.8 | 62.8 |



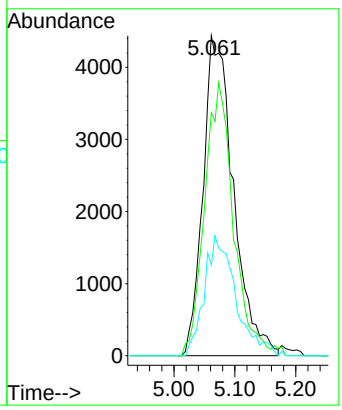


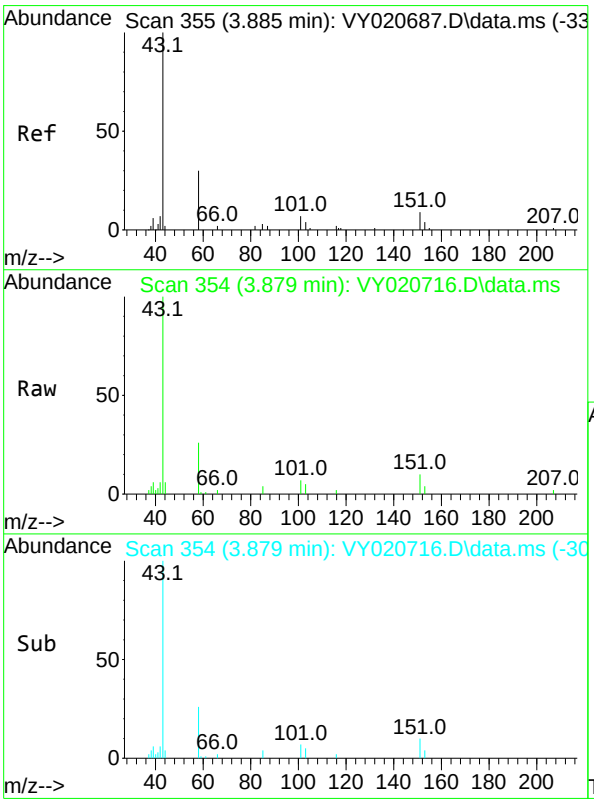

#15
Acrylonitrile
Concen: 103.122 ug/l
RT: 5.061 min Scan# 54
Delta R.T. -0.019 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 53 Resp: 15350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.7 | 67.1 | 100.7 |
| 51 | 38.8 | 31.4 | 47.0 |

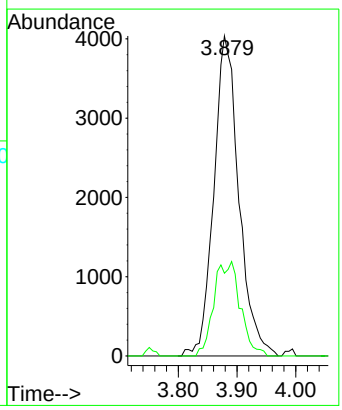


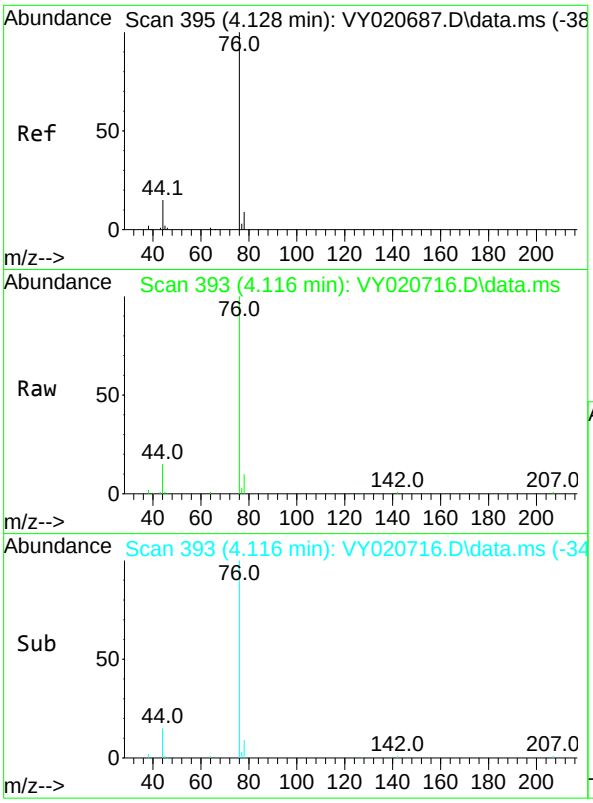




#16
Acetone
Concen: 99.286 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 11944

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 25.8 | 25.0 | 37.6 |



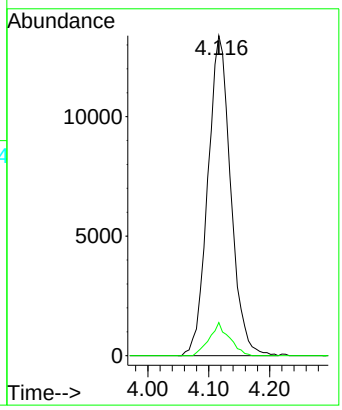


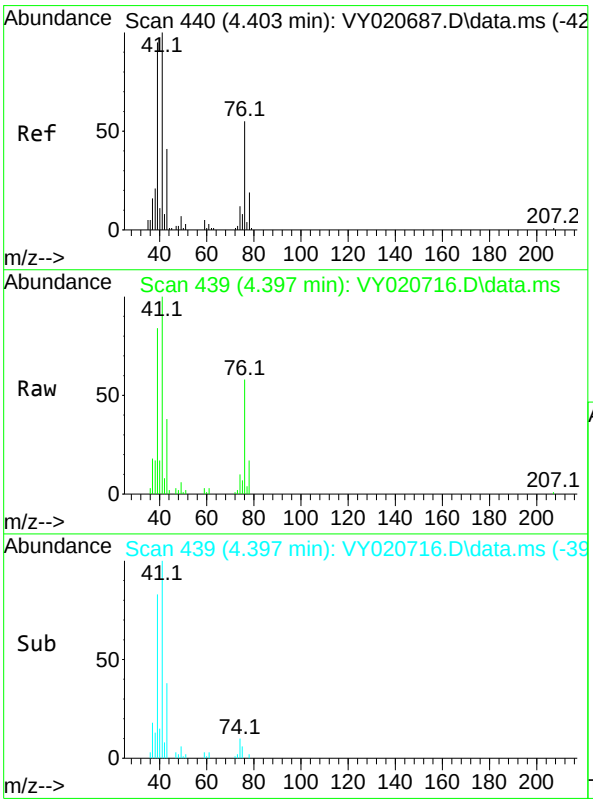

#17
Carbon Disulfide
Concen: 18.010 ug/l
RT: 4.116 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 76 Resp: 34956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.3 | 6.9 | 10.3# |

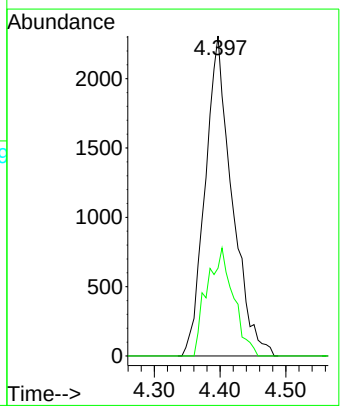


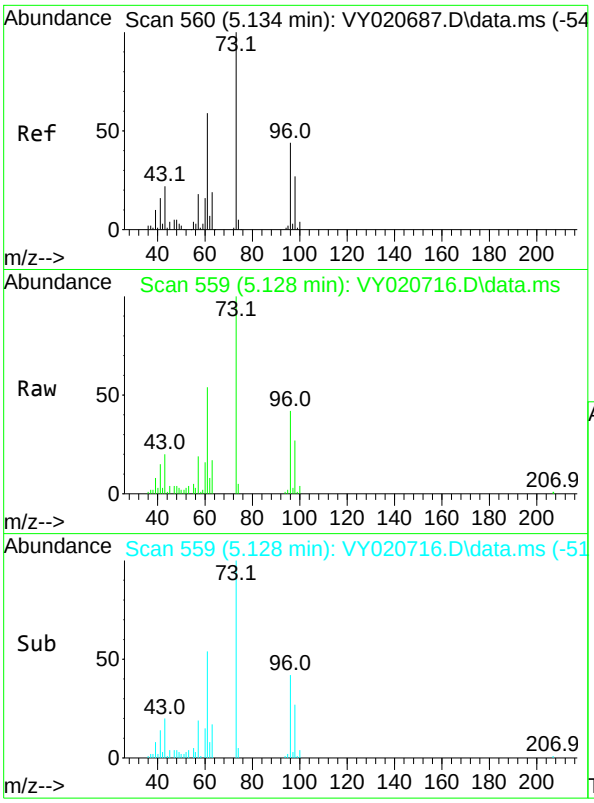




#18
Methyl Acetate
Concen: 20.136 ug/l
RT: 4.397 min Scan# 439
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 6556

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 33.3 | 25.3 | 37.9 |



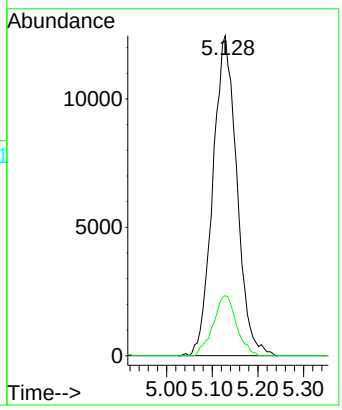


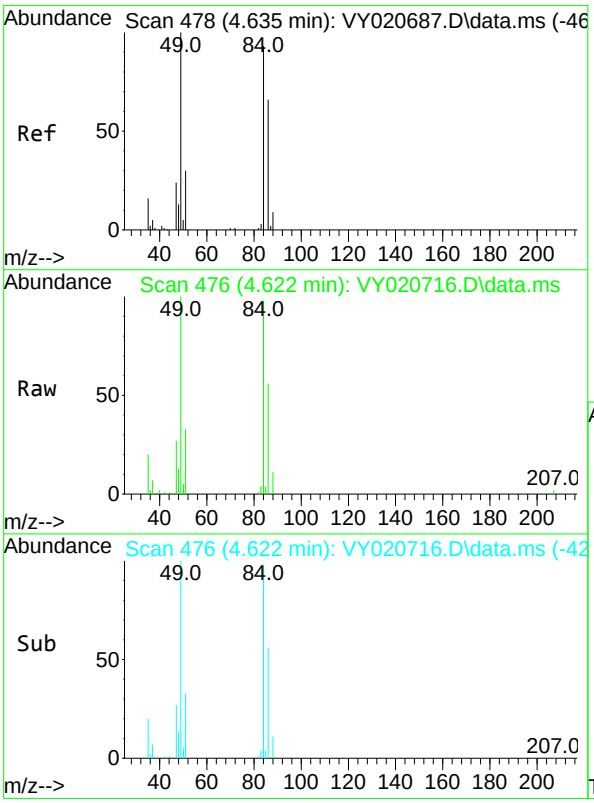

#19
Methyl tert-butyl Ether
Concen: 20.603 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 73 Resp: 45438

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 18.8 | 14.4 | 21.6 |

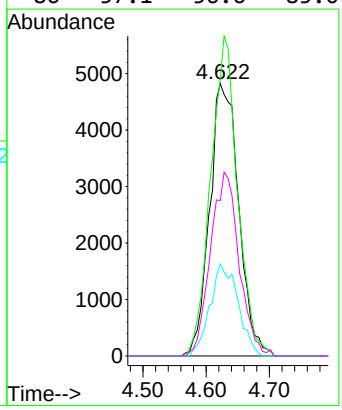


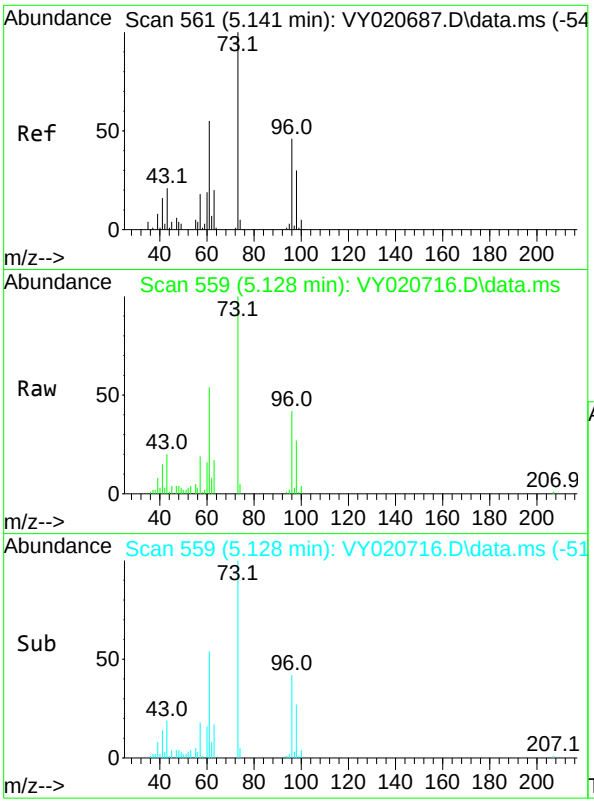




#20
Methylene Chloride
Concen: 19.651 ug/l
RT: 4.622 min Scan# 476
Delta R.T. -0.013 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 84 Resp: 15375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 101.8 | 86.4 | 129.6 |
| 51 | 33.8 | 25.5 | 38.3 |
| 86 | 57.1 | 56.6 | 85.0 |



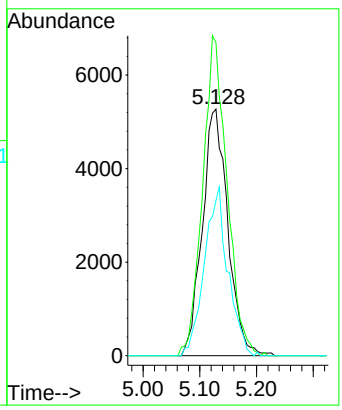


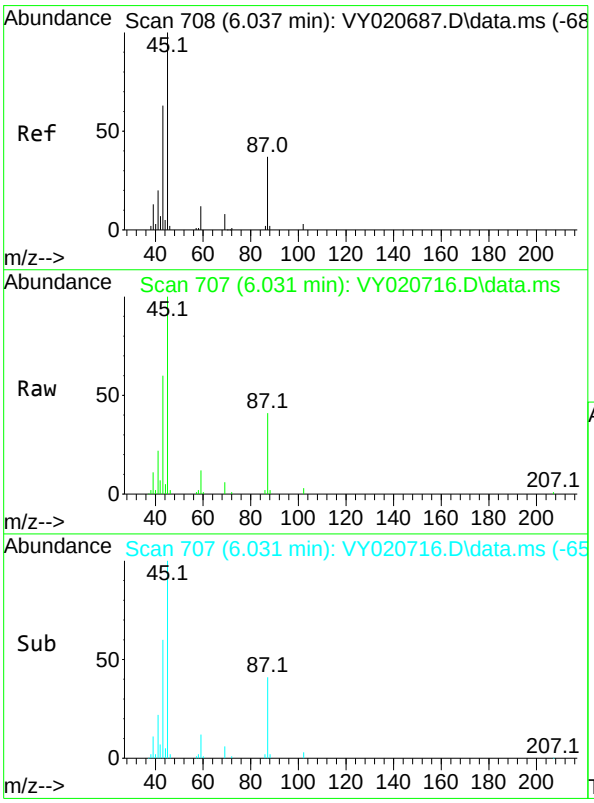

#21
trans-1,2-Dichloroethene
Concen: 19.321 ug/l
RT: 5.128 min Scan# 5
Delta R.T. -0.013 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 96 Resp: 16474

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 127.0 | 96.1 | 144.1 |
| 98 | 62.8 | 52.7 | 79.1 |

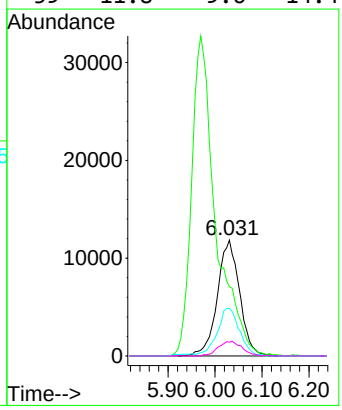


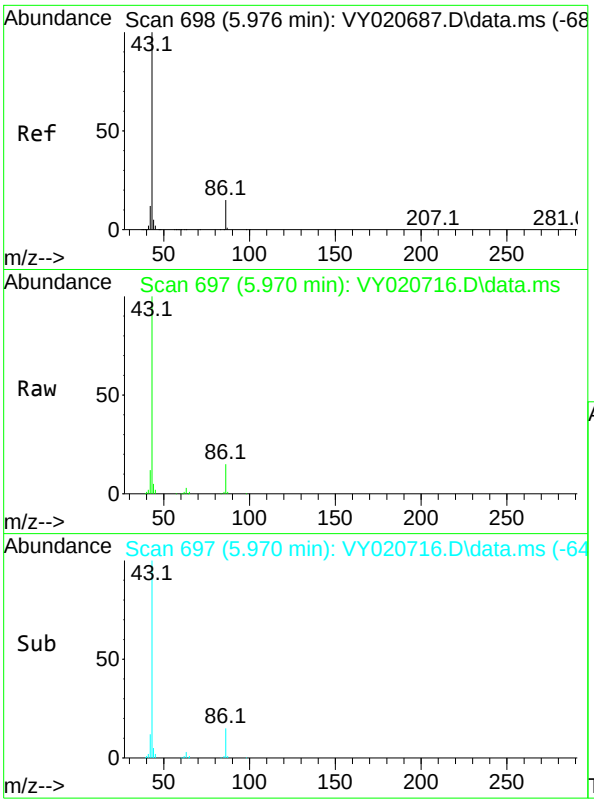




#22
Diisopropyl ether
Concen: 20.704 ug/l
RT: 6.031 min Scan# 707
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 45 Resp: 38970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 58.9 | 51.3 | 76.9 |
| 87 | 41.1 | 30.6 | 46.0 |
| 59 | 11.8 | 9.6 | 14.4 |



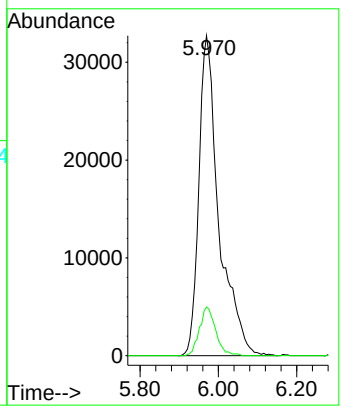


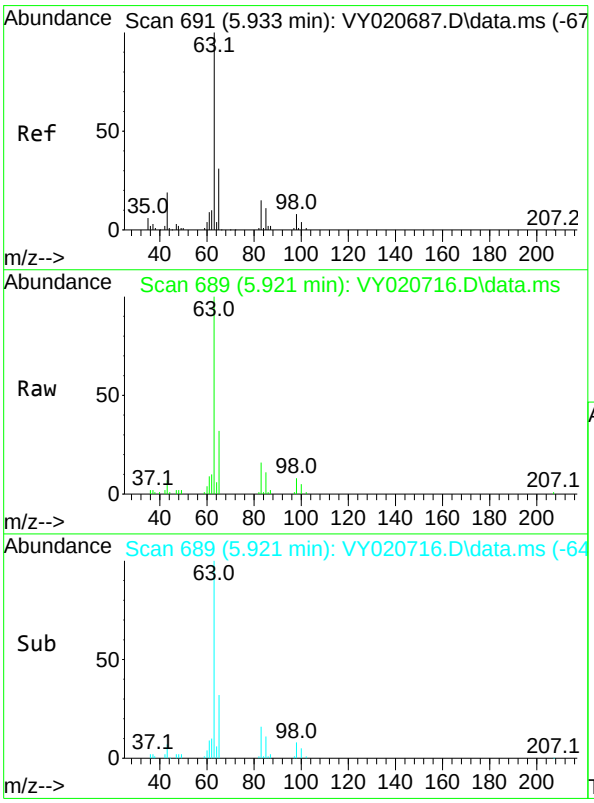

#23
Vinyl Acetate
Concen: 103.614 ug/l
RT: 5.970 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 43 Resp: 116491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 15.2 | 12.0 | 18.0 |

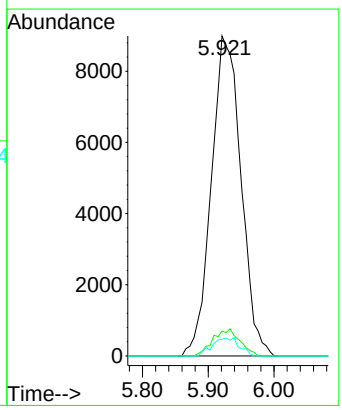


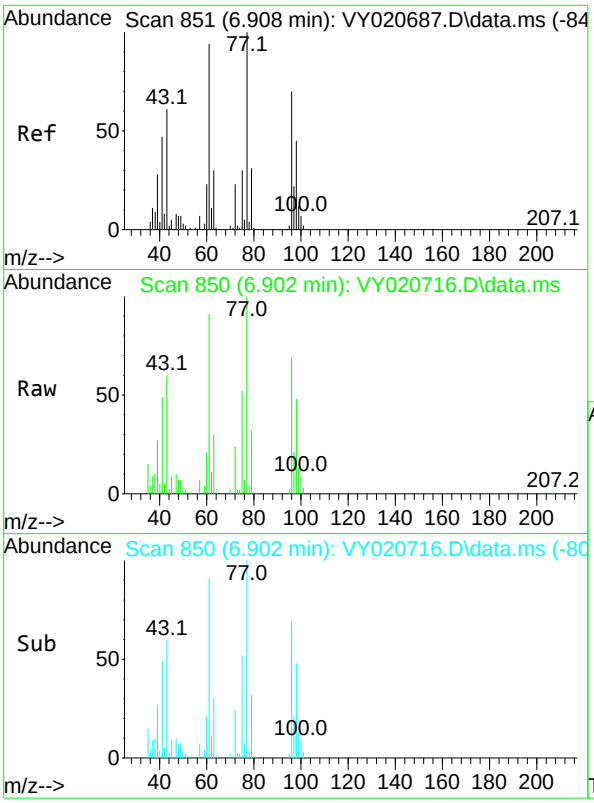




#24
1,1-Dichloroethane
Concen: 19.977 ug/l
RT: 5.921 min Scan# 689
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 63 Resp: 28192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.9 | 4.0 | 12.0 |
| 100 | 5.2 | 2.1 | 6.2 |



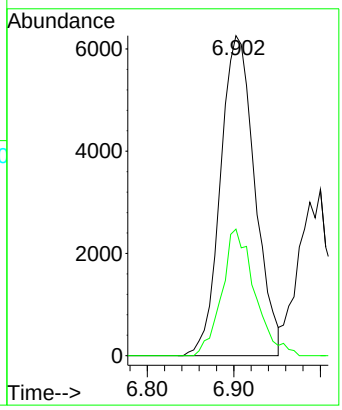


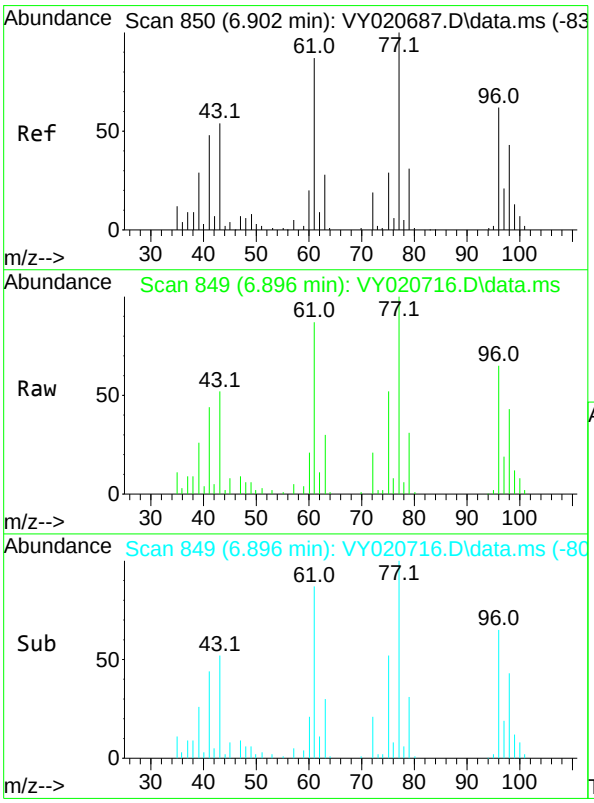

#25
2-Butanone
Concen: 106.360 ug/l
RT: 6.902 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 43 Resp: 17284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 39.5 | 29.5 | 44.3 |

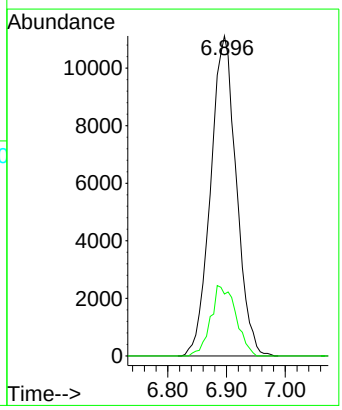


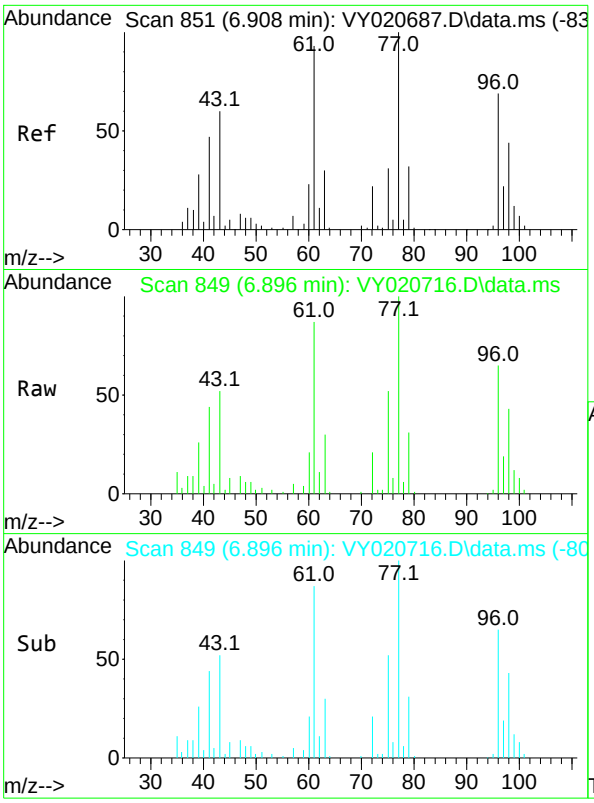




#26
2,2-Dichloropropane
Concen: 19.523 ug/l
RT: 6.896 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 77 Resp: 33722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.5 | 10.8 | 32.4 |



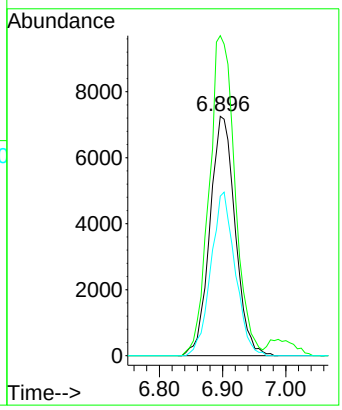


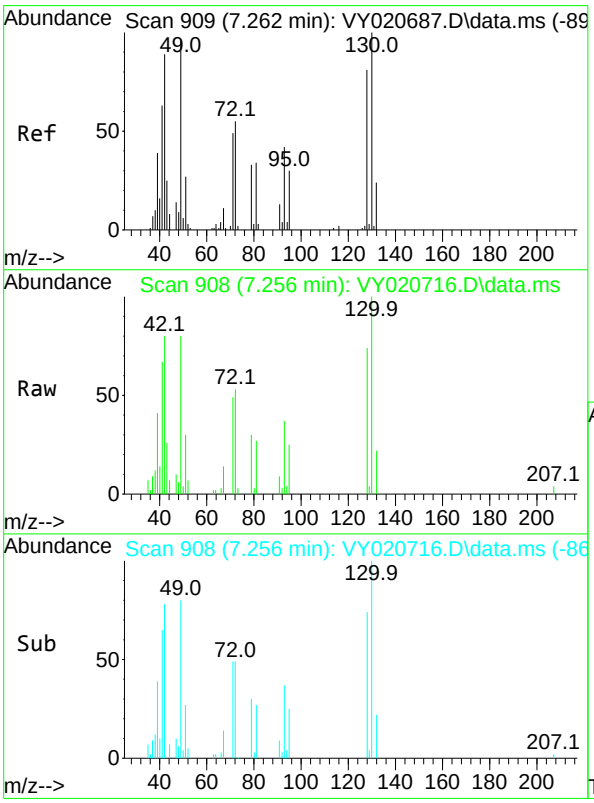

#27
cis-1,2-Dichloroethene
Concen: 19.674 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 96 Resp: 20089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.2 | 0.0 | 277.2 |
| 98 | 65.6 | 0.0 | 131.0 |

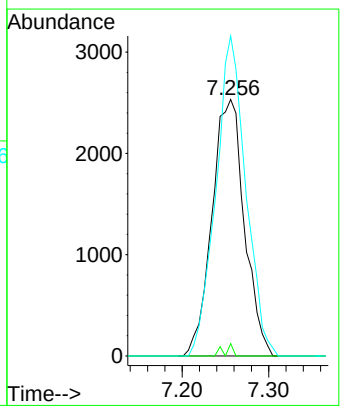


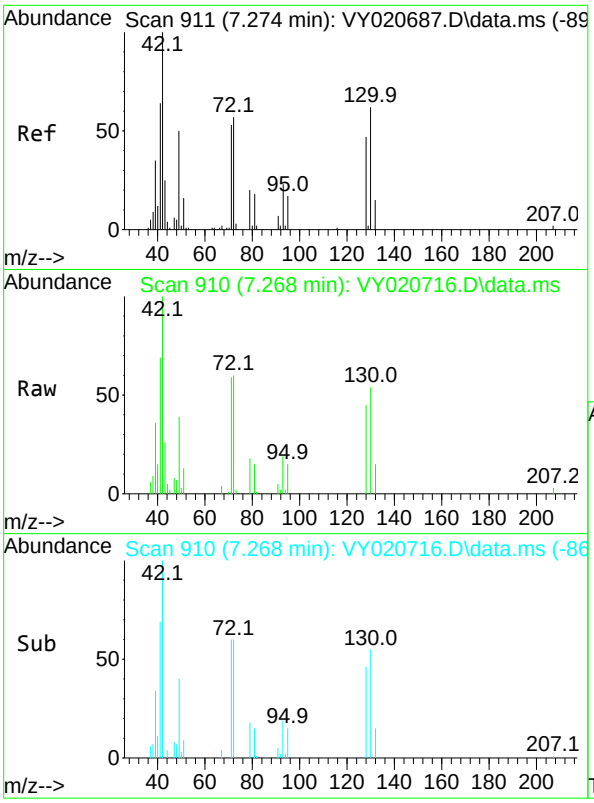




#28
Bromochloromethane
Concen: 17.613 ug/l
RT: 7.256 min Scan# 908
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 49 Resp: 6573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.5 | 0.0 | 5.4 |
| 130 | 115.5 | 87.2 | 130.8 |



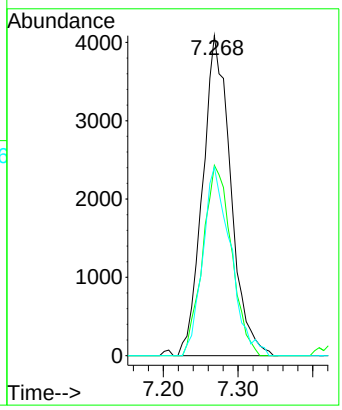


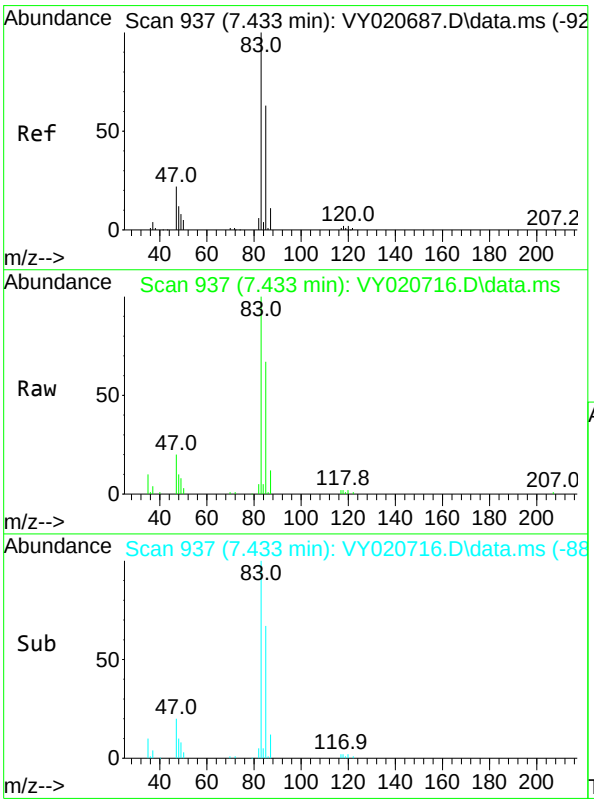

#29
Tetrahydrofuran
Concen: 106.889 ug/l
RT: 7.268 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 42 Resp: 10662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 60.8 | 47.4 | 71.0 |
| 71 | 58.6 | 42.8 | 64.2 |

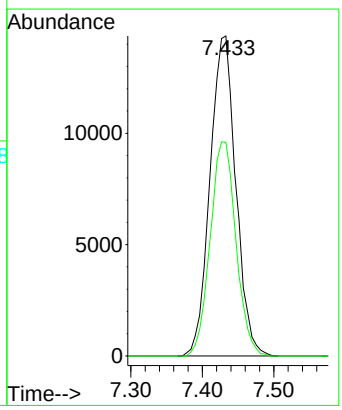


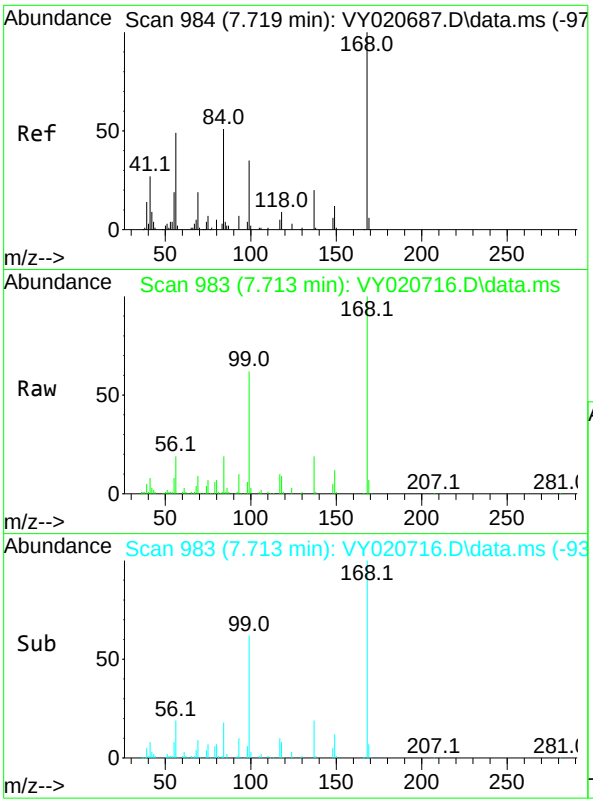




#30
Chloroform
Concen: 19.857 ug/l
RT: 7.433 min Scan# 937
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 83 Resp: 36048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.8 | 50.2 | 75.2 |



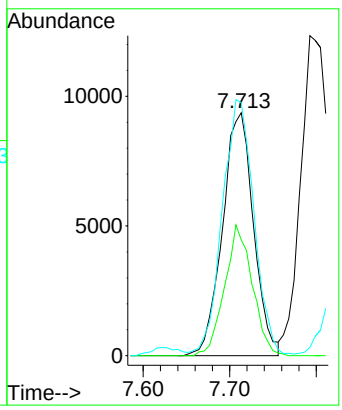


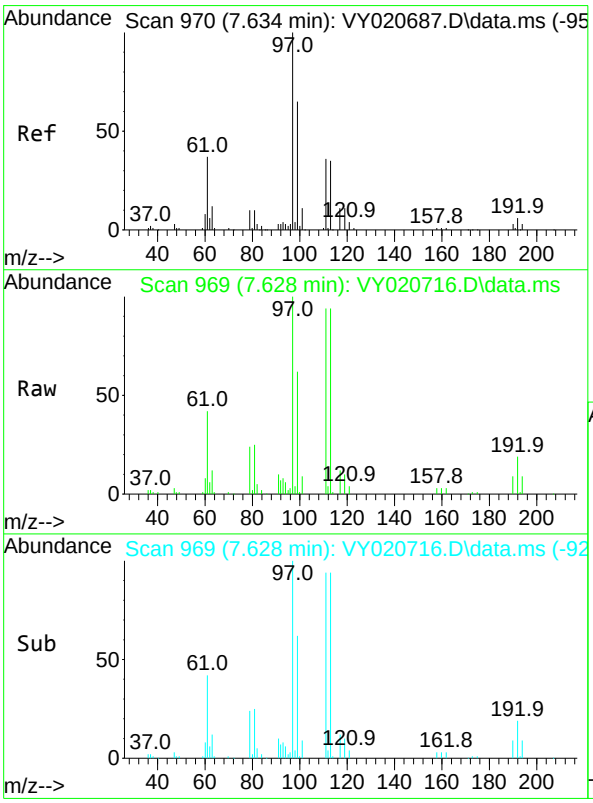

#31
Cyclohexane
Concen: 19.155 ug/l
RT: 7.713 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 56 Resp: 23333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 47.7 | 31.3 | 46.9# |
| 84 | 101.7 | 83.9 | 125.9 |

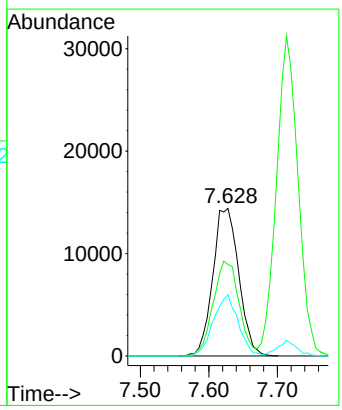


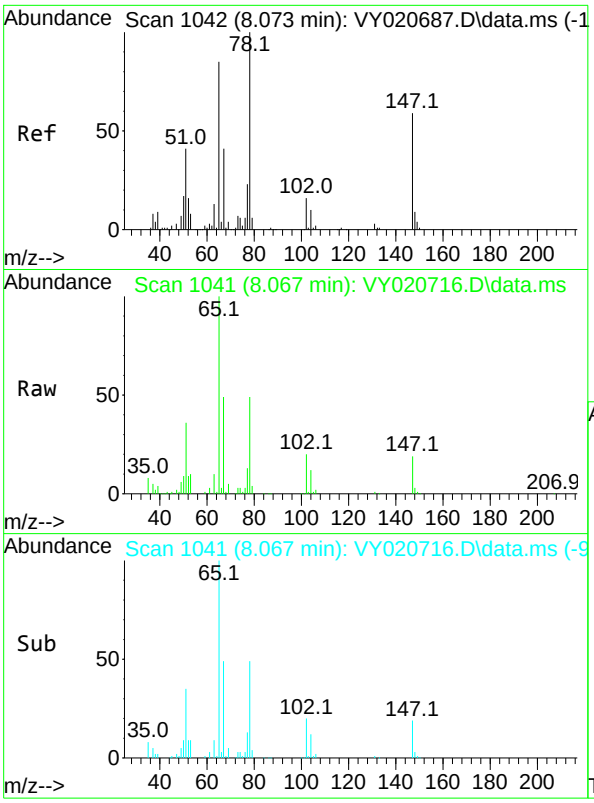




#32
1,1,1-Trichloroethane
Concen: 19.495 ug/l
RT: 7.628 min Scan# 969
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 97 Resp: 37936

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.0 | 76.6 |
| 61 | 39.5 | 30.0 | 45.0 |



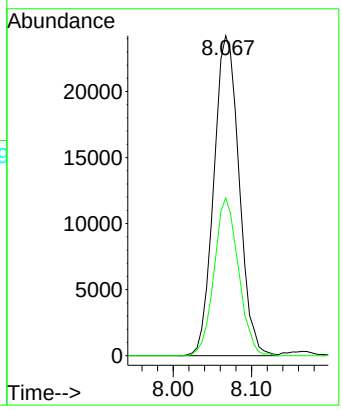


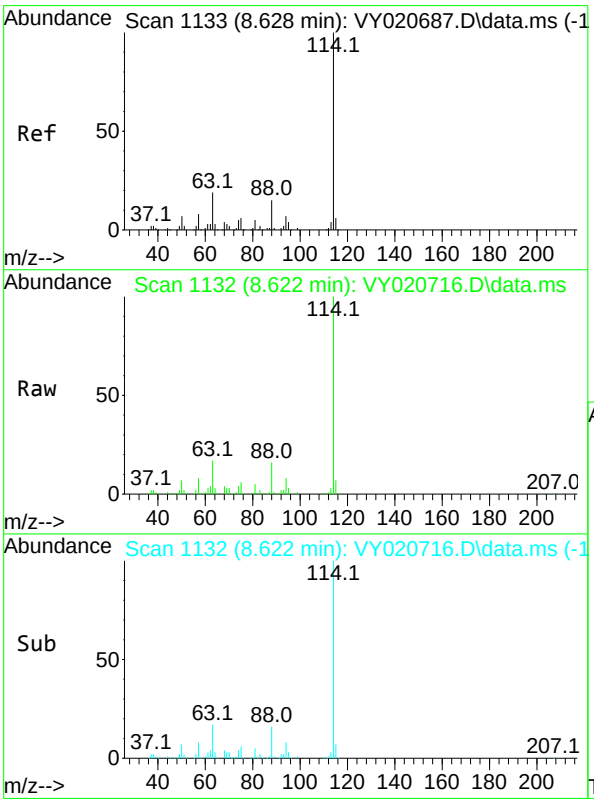

#33
1,2-Dichloroethane-d4
Concen: 57.297 ug/l
RT: 8.067 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 65 Resp: 54334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 47.5 | 0.0 | 98.0 |

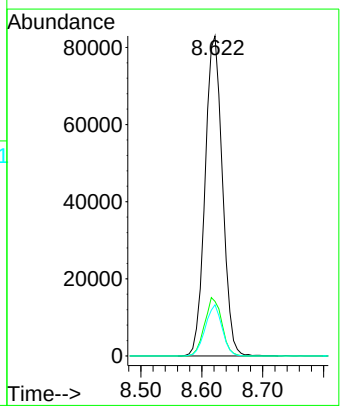


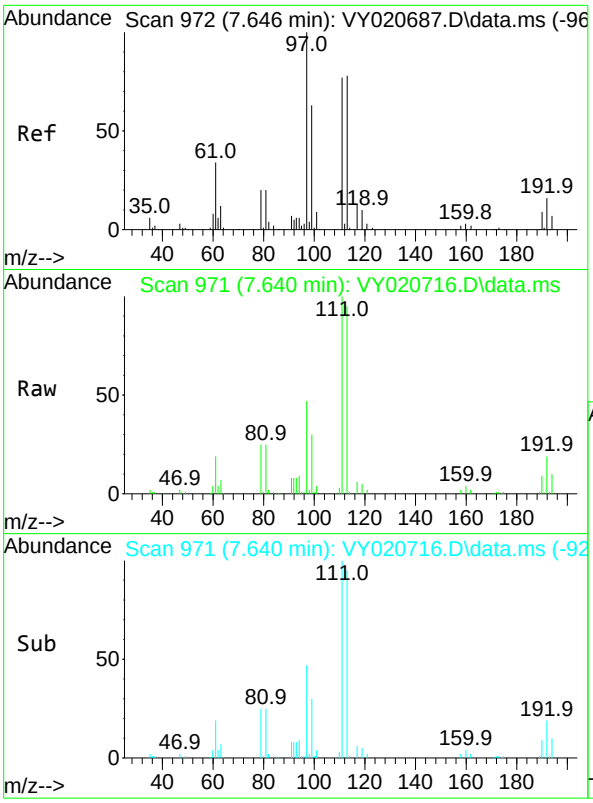




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.622 min Scan# 1132
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:114 Resp: 164224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 17.0 | 0.0 | 38.4 |
| 88 | 16.0 | 0.0 | 30.4 |



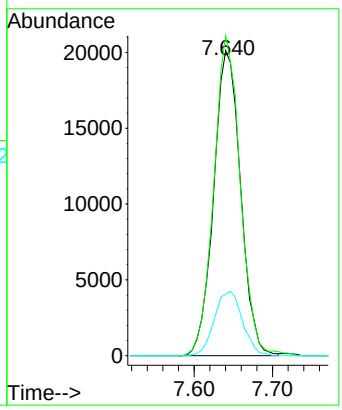


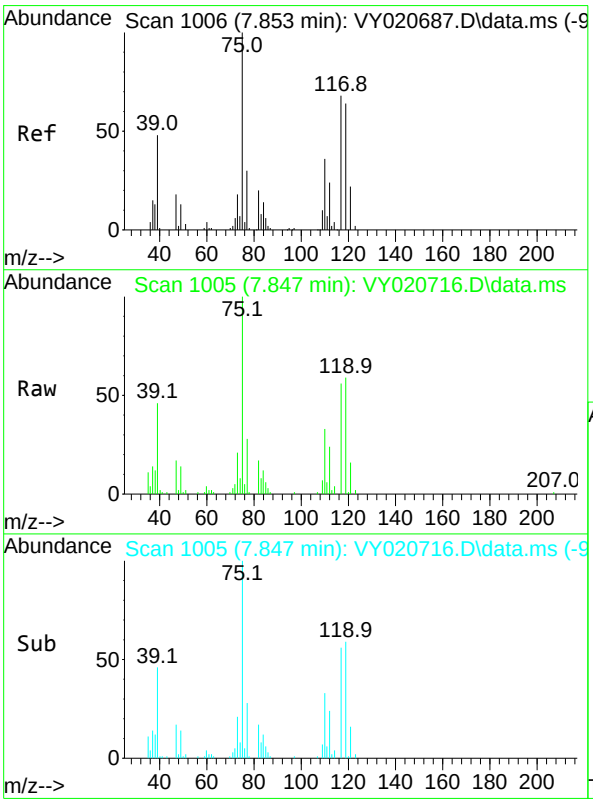

#35
Dibromofluoromethane
Concen: 53.153 ug/l
RT: 7.640 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:113 Resp: 48081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 79.8 | 119.8 |
| 192 | 22.0 | 17.0 | 25.6 |

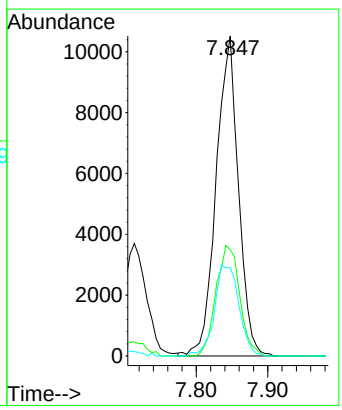


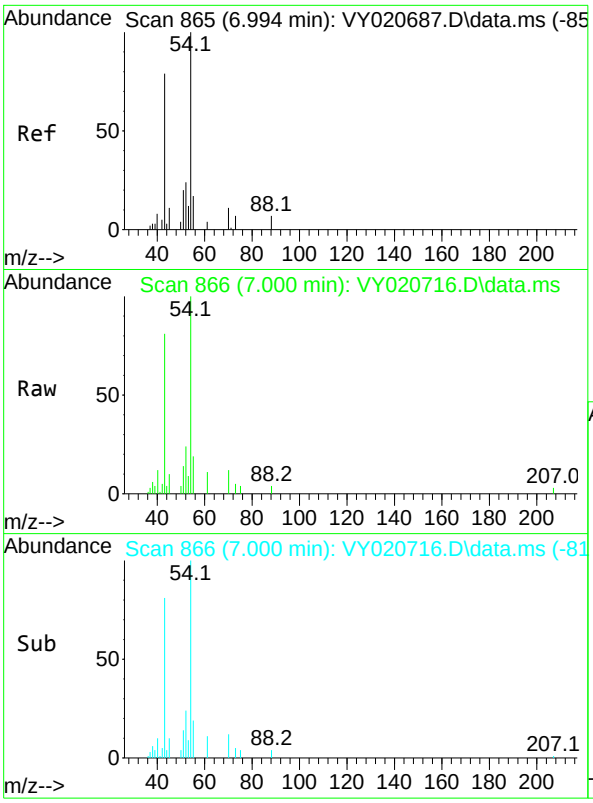




#36
1,1-Dichloropropene
Concen: 19.036 ug/l
RT: 7.847 min Scan# 1005
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 75 Resp: 22746

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.7 | 19.6 | 58.7 |
| 77 | 31.2 | 25.1 | 37.7 |



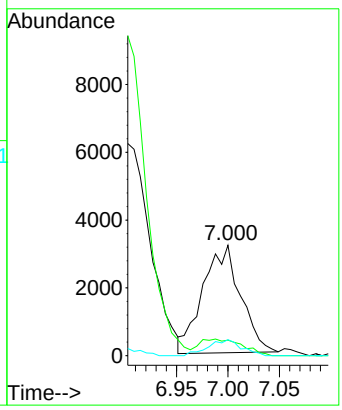


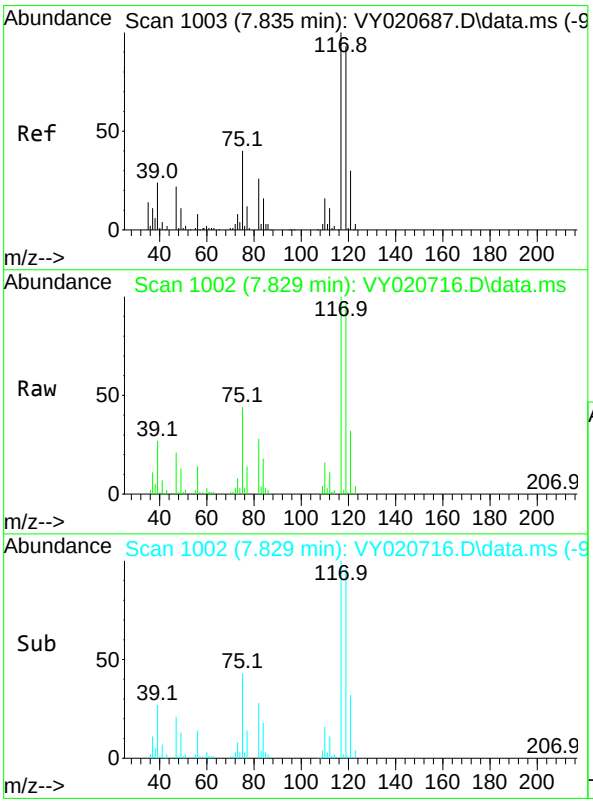

#37
Ethyl Acetate
Concen: 20.559 ug/l
RT: 7.000 min Scan# 8
Delta R.T. 0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 43 Resp: 8095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 17.7 | 11.7 | 17.5# |
| 70 | 13.2 | 11.0 | 16.4 |

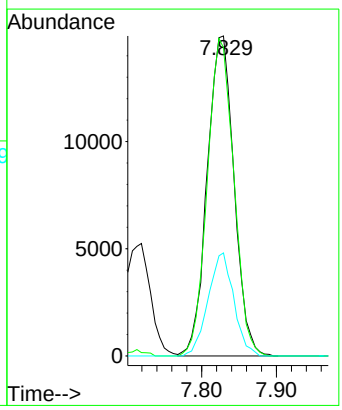


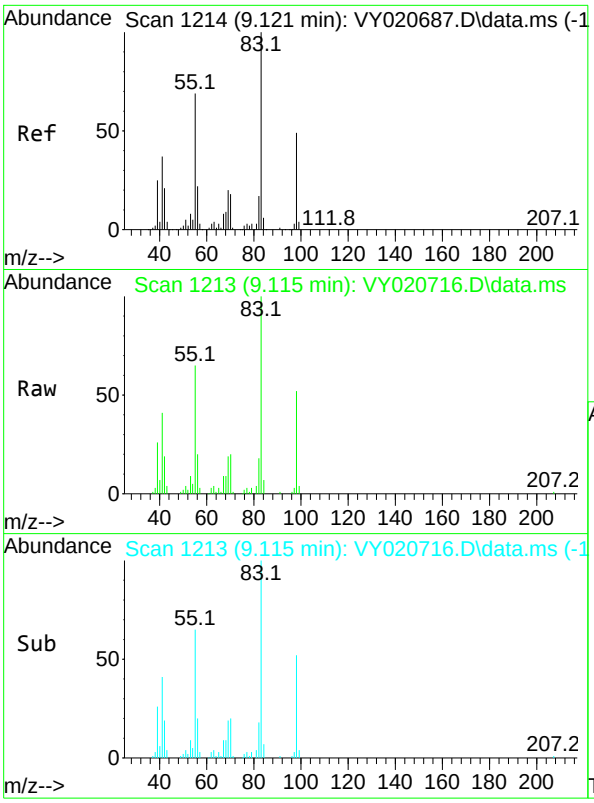




#38
Carbon Tetrachloride
Concen: 18.985 ug/l
RT: 7.829 min Scan# 1002
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:117 Resp: 37355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.3 | 74.4 | 111.6 |
| 121 | 32.2 | 24.2 | 36.2 |



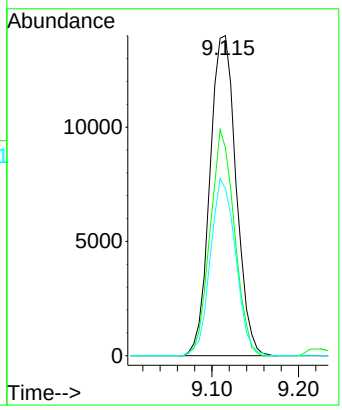


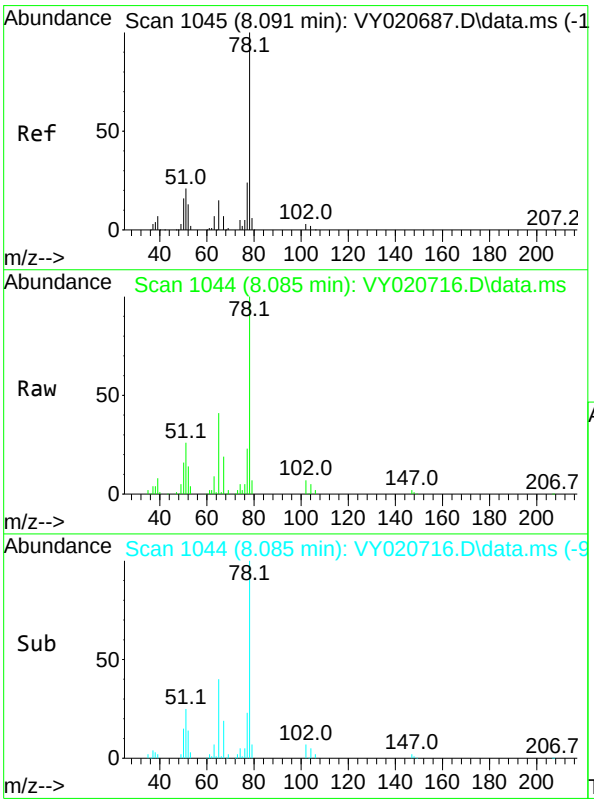

#39
Methylcyclohexane
Concen: 19.205 ug/l
RT: 9.115 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 83 Resp: 29413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 65.0 | 55.0 | 82.4 |
| 98 | 52.1 | 39.0 | 58.6 |

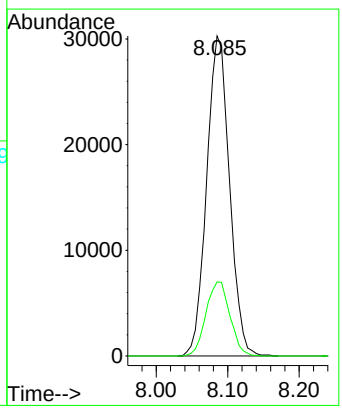


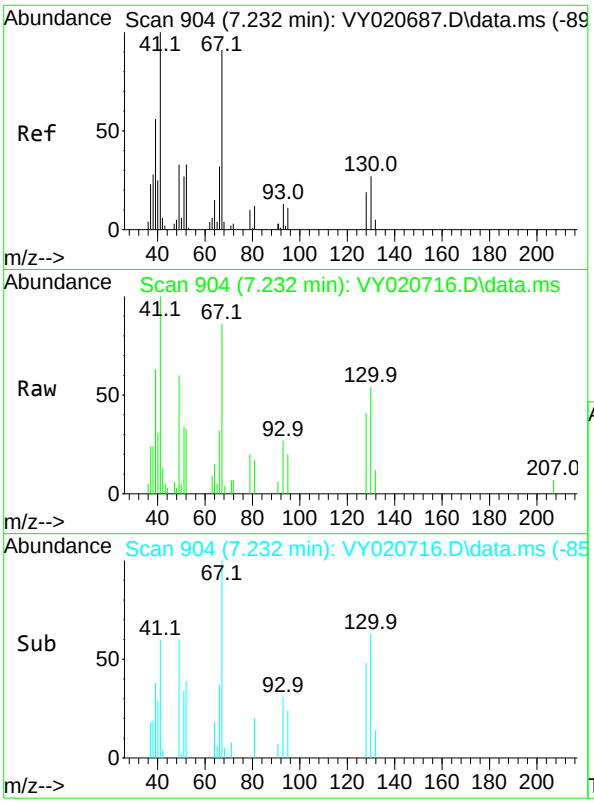




#40
Benzene
Concen: 19.404 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 78 Resp: 67196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 19.2 | 28.8 |



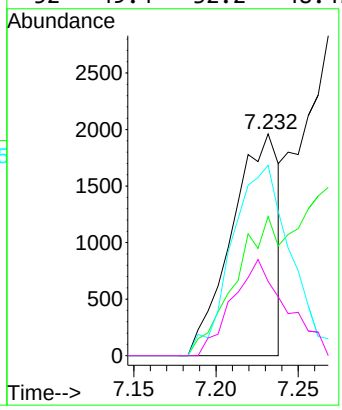


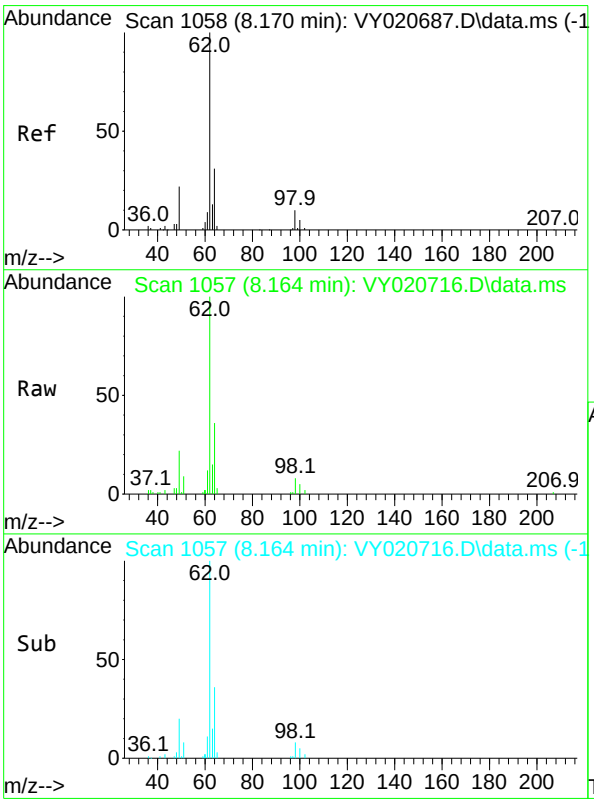

#41
Methacrylonitrile
Concen: 19.679 ug/l
RT: 7.232 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 41 Resp: 3914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.8 | 46.6 | 70.0 |
| 67 | 107.6 | 74.7 | 112.1 |
| 52 | 49.4 | 32.2 | 48.4# |

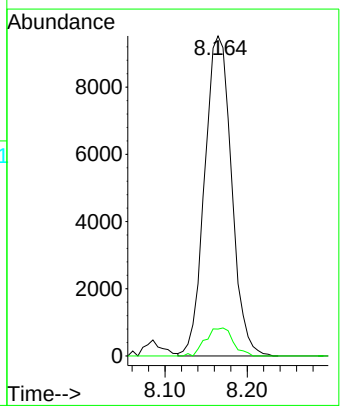


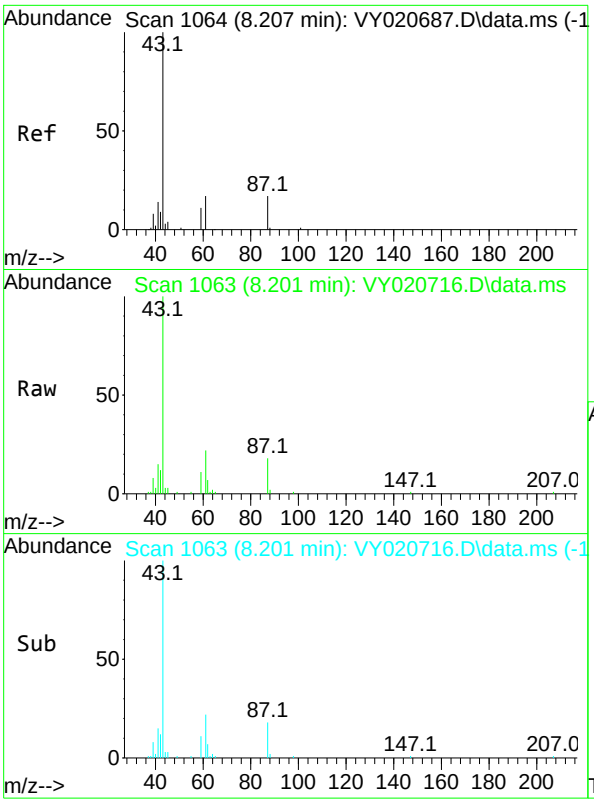




#42
1,2-Dichloroethane
Concen: 19.473 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 62 Resp: 21623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.9 | 0.0 | 16.6 |



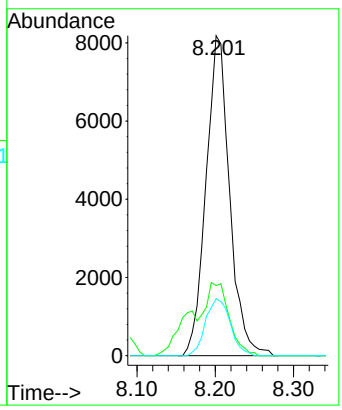


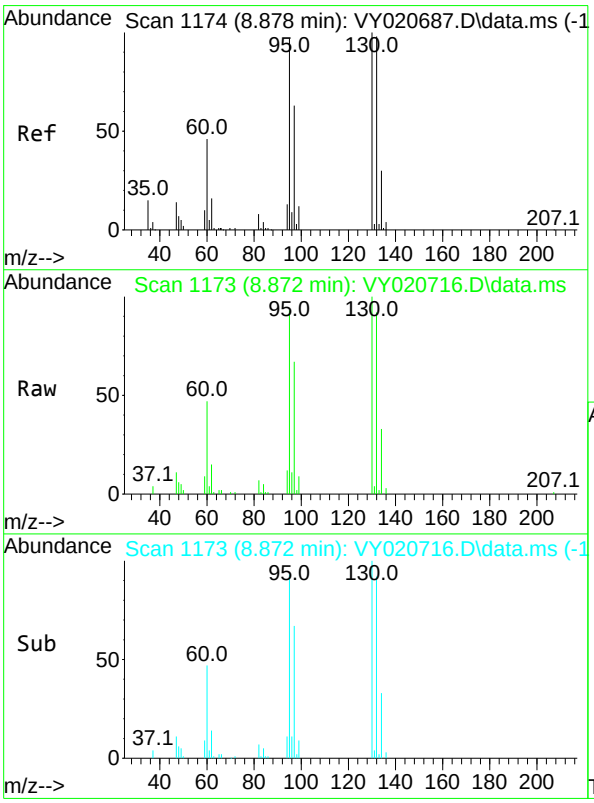

#43
Isopropyl Acetate
Concen: 20.432 ug/l
RT: 8.201 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 43 Resp: 17100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 23.8 | 27.0 | 40.4# |
| 87 | 18.7 | 14.2 | 21.4 |

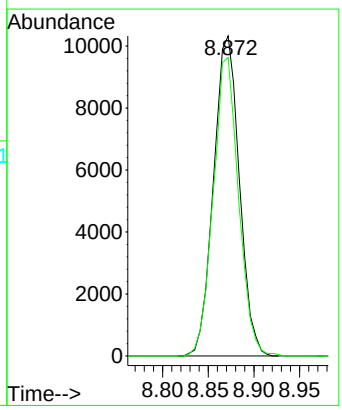


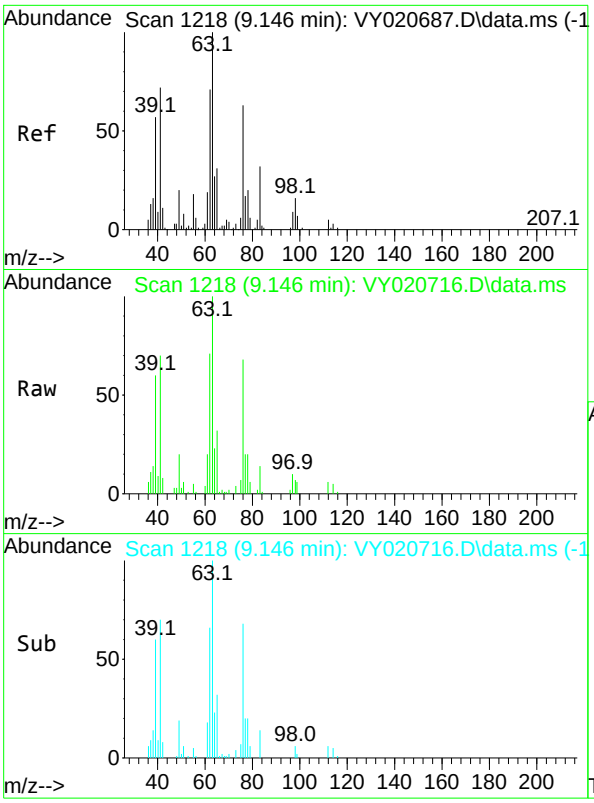




#44
Trichloroethene
Concen: 19.567 ug/l
RT: 8.872 min Scan# 1173
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:130 Resp: 20239

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 93.3 | 0.0 | 194.8 |



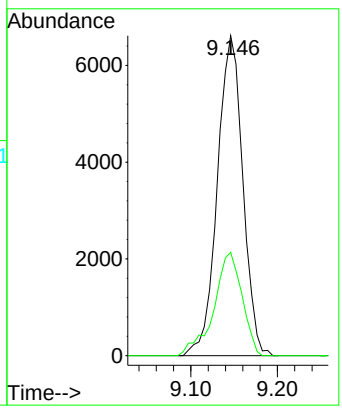


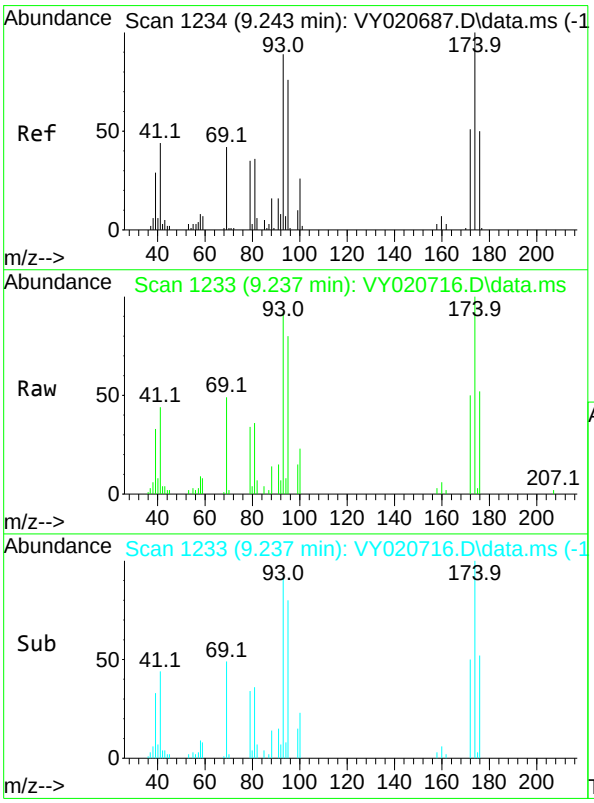

#45
1,2-Dichloropropane
Concen: 19.262 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 63 Resp: 13502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.3 | 24.6 | 36.8 |

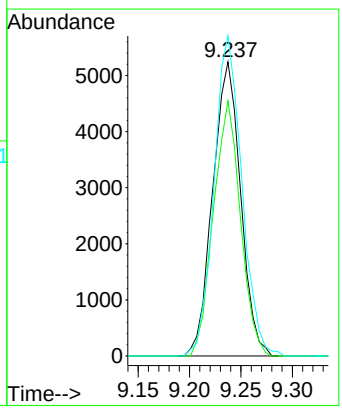


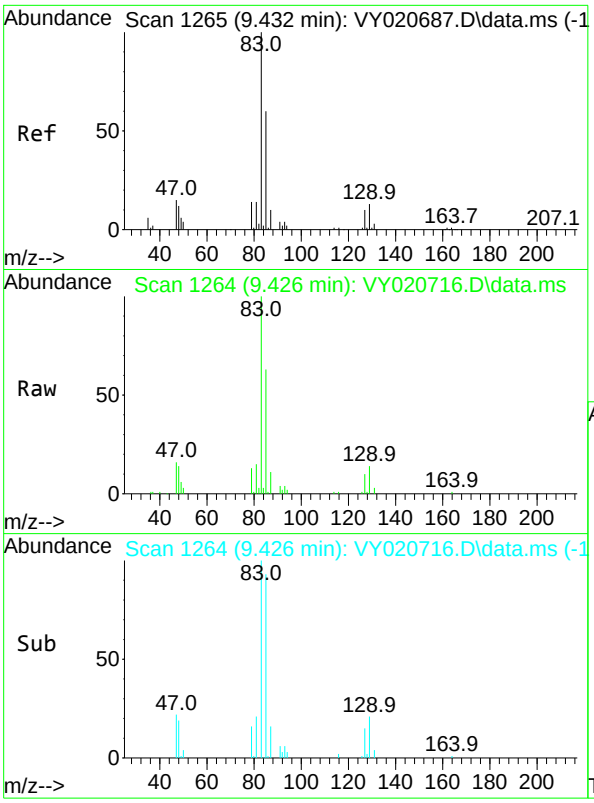




#46
Dibromomethane
Concen: 20.387 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 93 Resp: 9888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.9 | 67.8 | 101.8 |
| 174 | 108.3 | 89.4 | 134.0 |



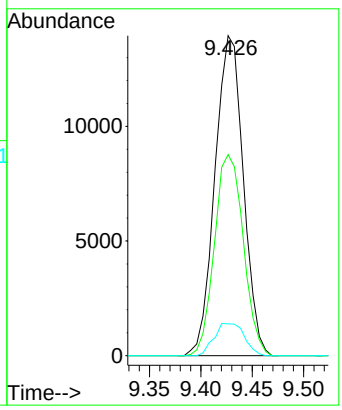


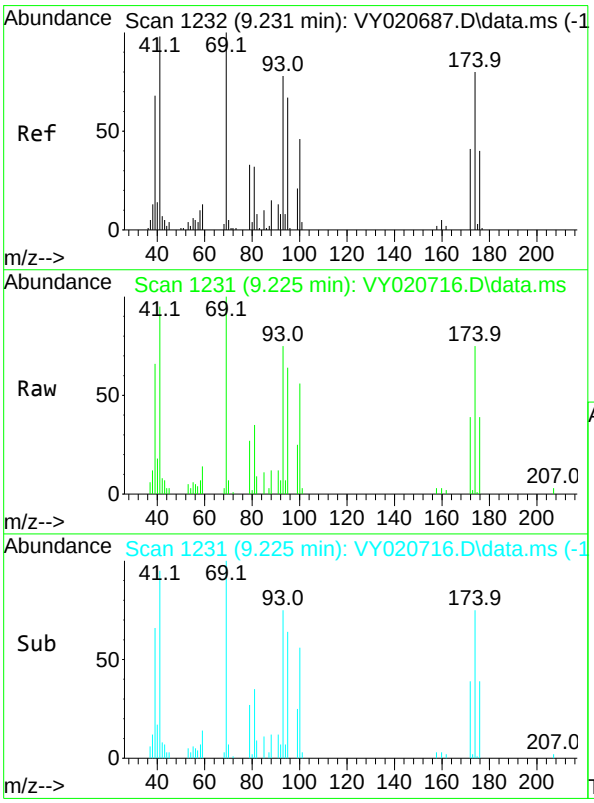

#47
Bromodichloromethane
Concen: 19.469 ug/l
RT: 9.426 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 83 Resp: 26772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.8 | 47.6 | 71.4 |
| 127 | 9.9 | 7.9 | 11.9 |

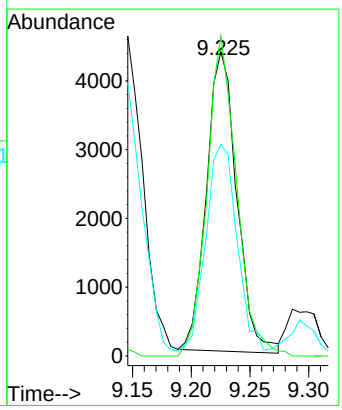


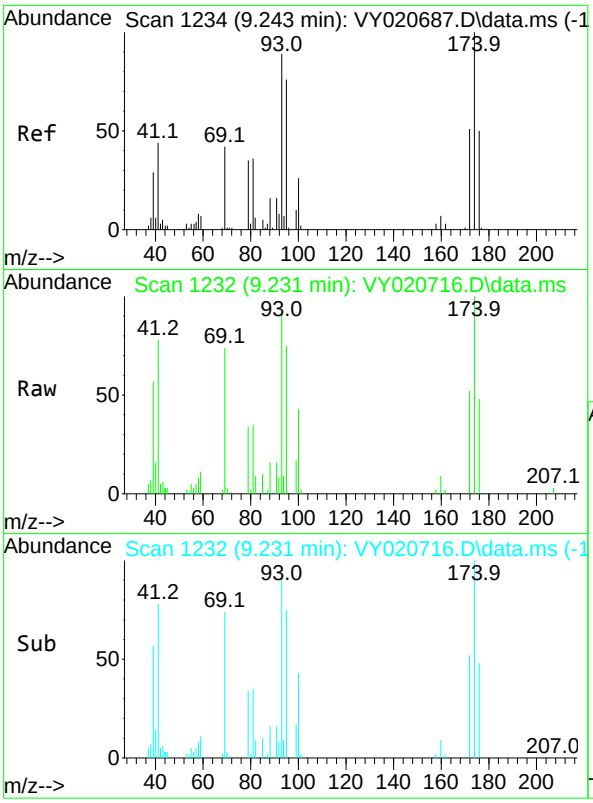




#48
Methyl methacrylate
Concen: 19.957 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 41 Resp: 7800

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 104.7 | 83.1 | 124.7 |
| 39 | 71.9 | 57.3 | 85.9 |



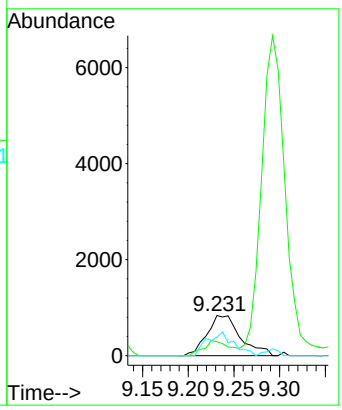


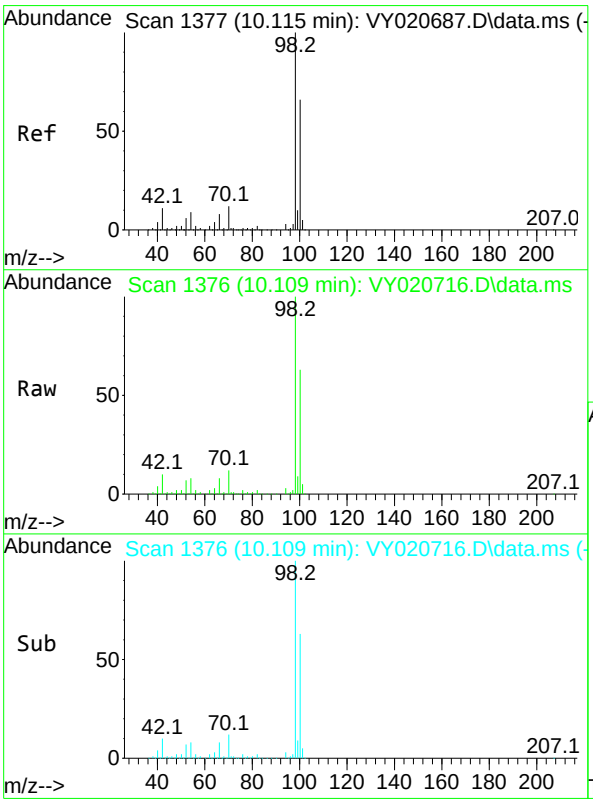

#49
1,4-Dioxane
Concen: 461.904 ug/l
RT: 9.231 min Scan# 1
Delta R.T. -0.012 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 88 Resp: 2134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 29.7 | 22.1 | 33.1 |
| 58 | 45.9 | 46.7 | 70.1# |

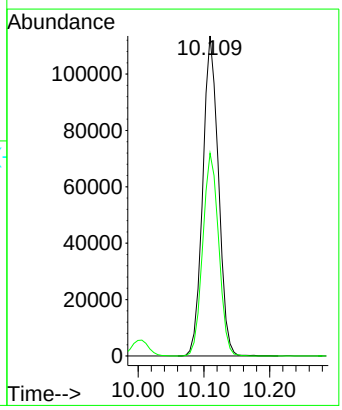


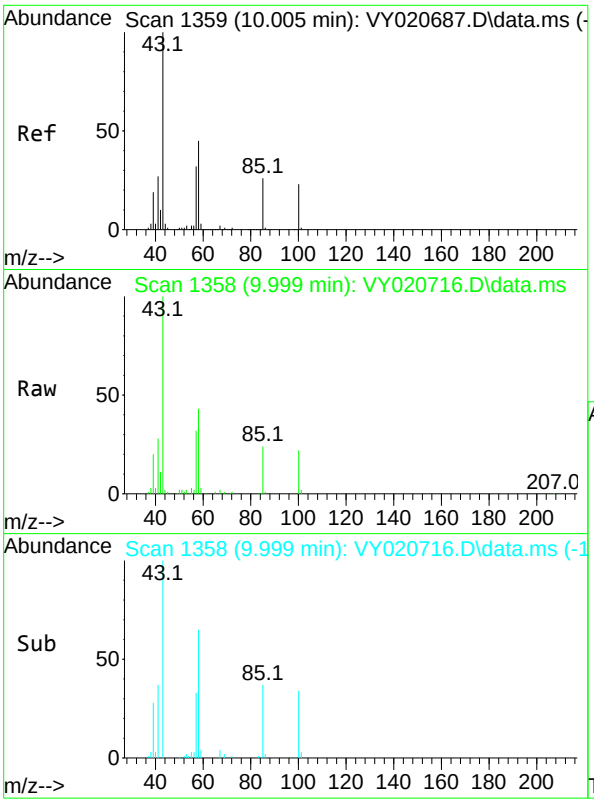




#50
Toluene-d8
Concen: 52.144 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 98 Resp: 187843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.5 | 52.2 | 78.4 |



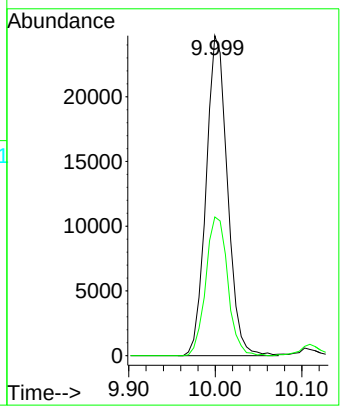


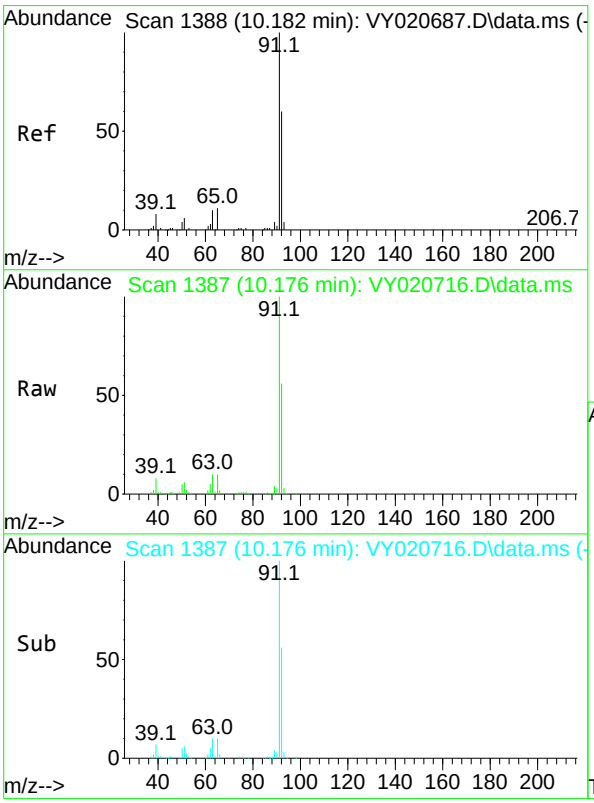

#51
4-Methyl-2-Pentanone
Concen: 104.782 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 43 Resp: 42327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 44.6 | 35.1 | 52.7 |

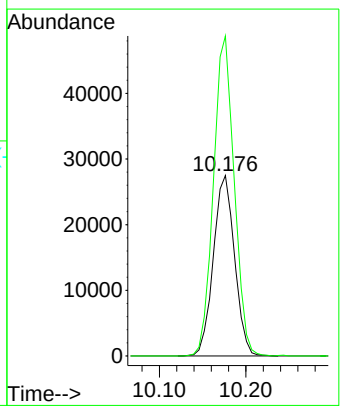


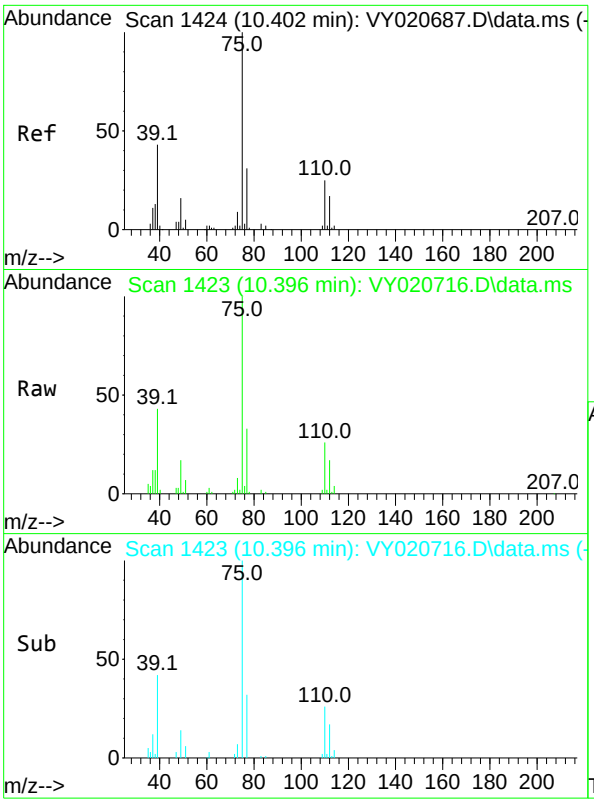




#52
Toluene
Concen: 19.709 ug/l
RT: 10.176 min Scan# 1387
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 92 Resp: 46778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.3 | 137.7 | 206.5 |



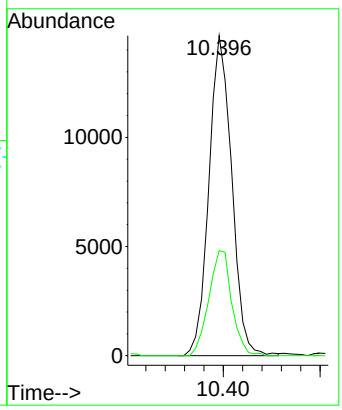


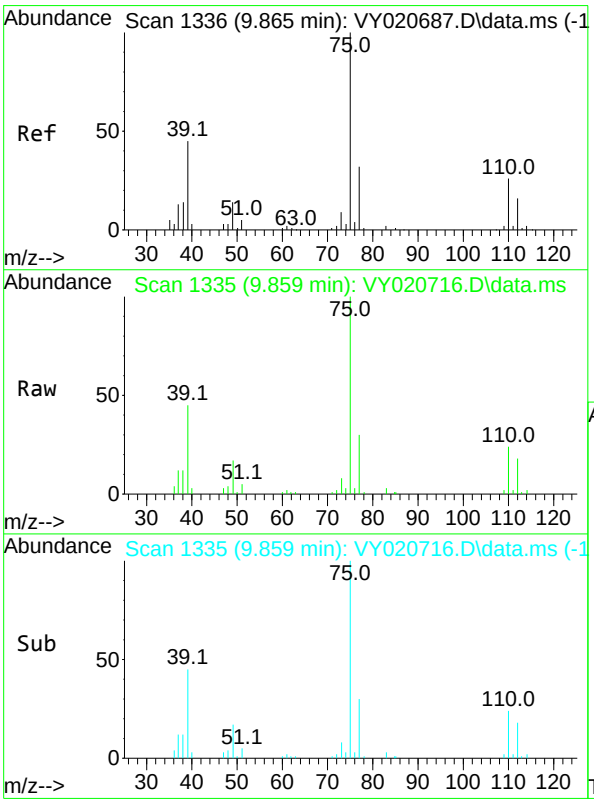

#53
t-1,3-Dichloropropene
Concen: 19.877 ug/l
RT: 10.396 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 75 Resp: 24006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.9 | 25.1 | 37.7 |

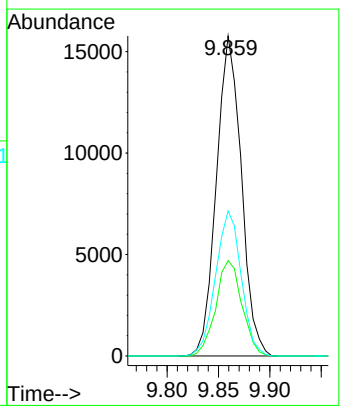


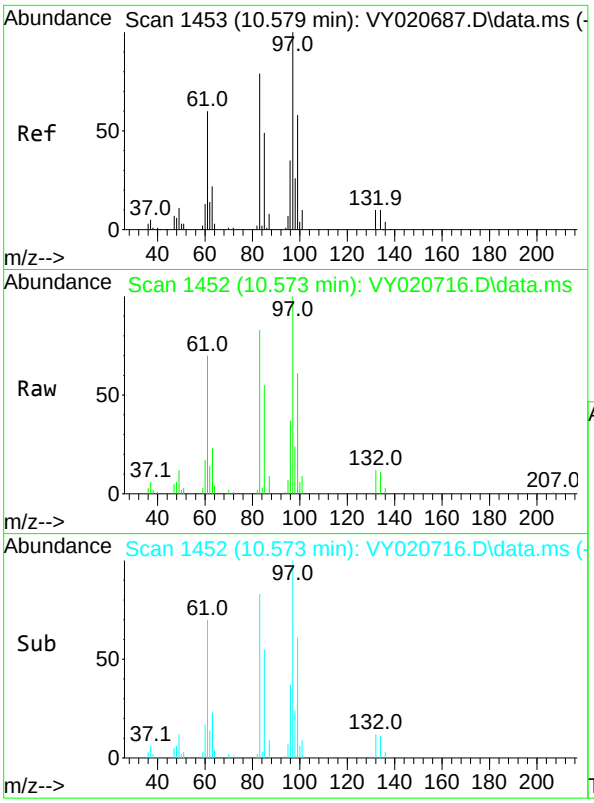




#54
cis-1,3-Dichloropropene
Concen: 20.063 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 75 Resp: 26559

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.8 | 25.6 | 38.4 |
| 39 | 45.3 | 36.2 | 54.2 |



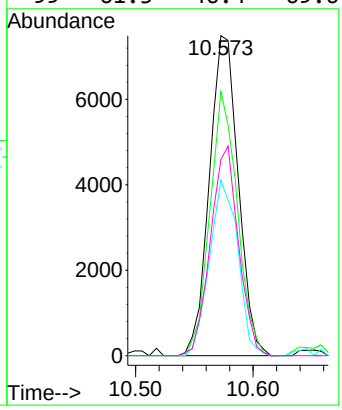


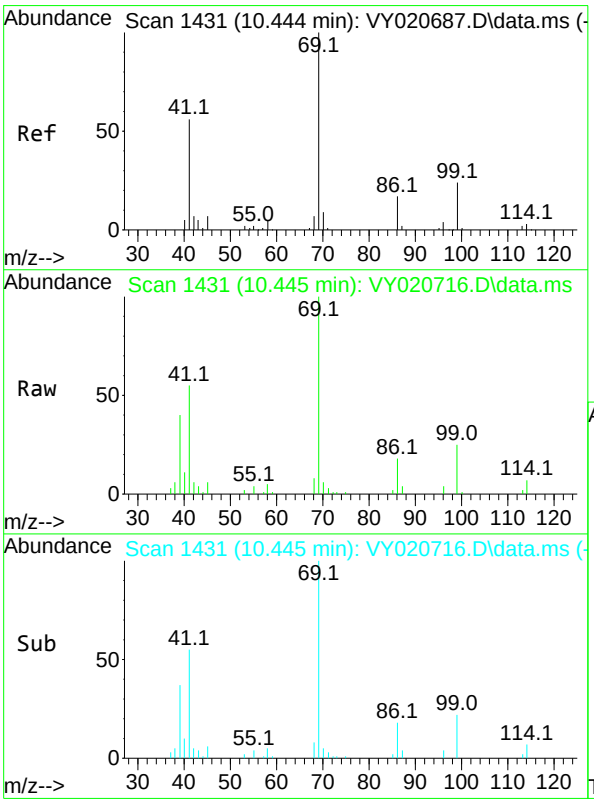

#55
1,1,2-Trichloroethane
Concen: 20.704 ug/l
RT: 10.573 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 97 Resp: 12818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 82.6 | 63.1 | 94.7 |
| 85 | 54.8 | 39.5 | 59.3 |
| 99 | 61.3 | 46.4 | 69.6 |

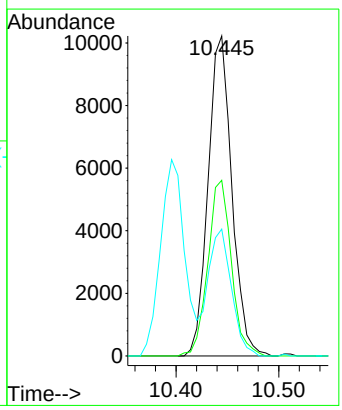


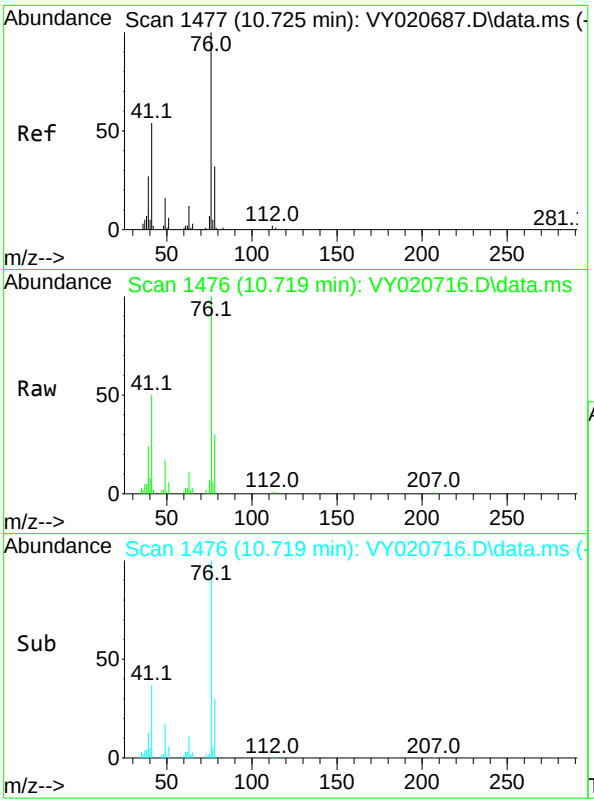




#56
Ethyl methacrylate
Concen: 20.175 ug/l
RT: 10.445 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 69 Resp: 16409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 54.4 | 43.8 | 65.6 |
| 39 | 39.2 | 32.0 | 48.0 |



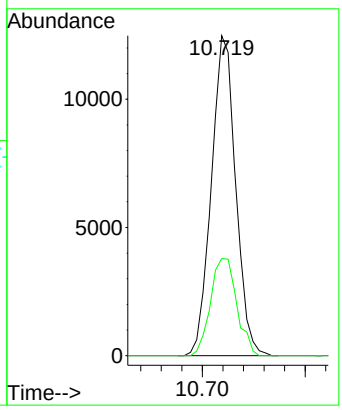


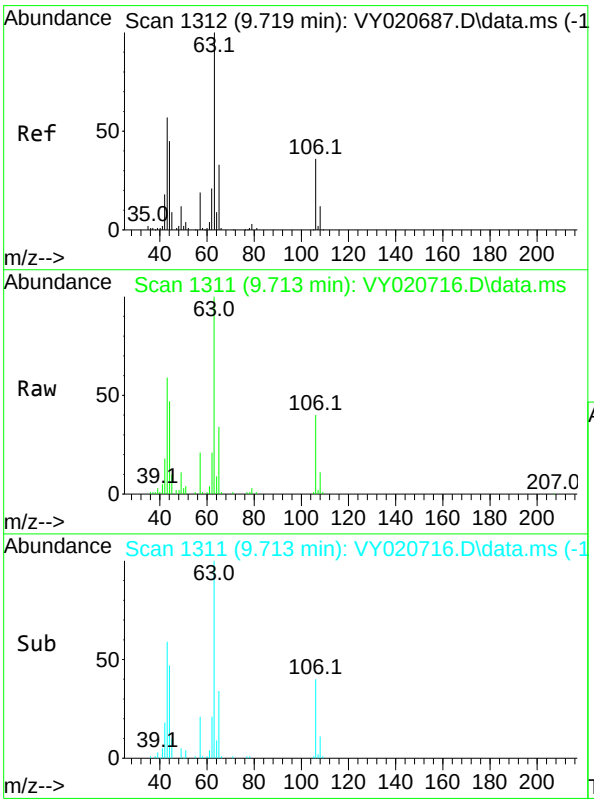

#57
1,3-Dichloropropane
Concen: 20.363 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 76 Resp: 20462

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.8 | 25.0 | 37.6 |

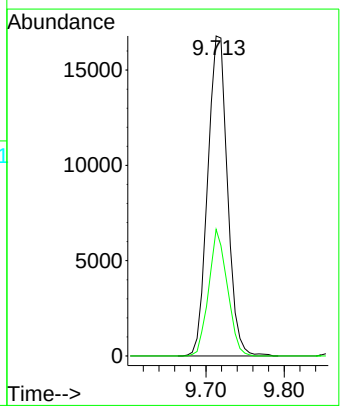


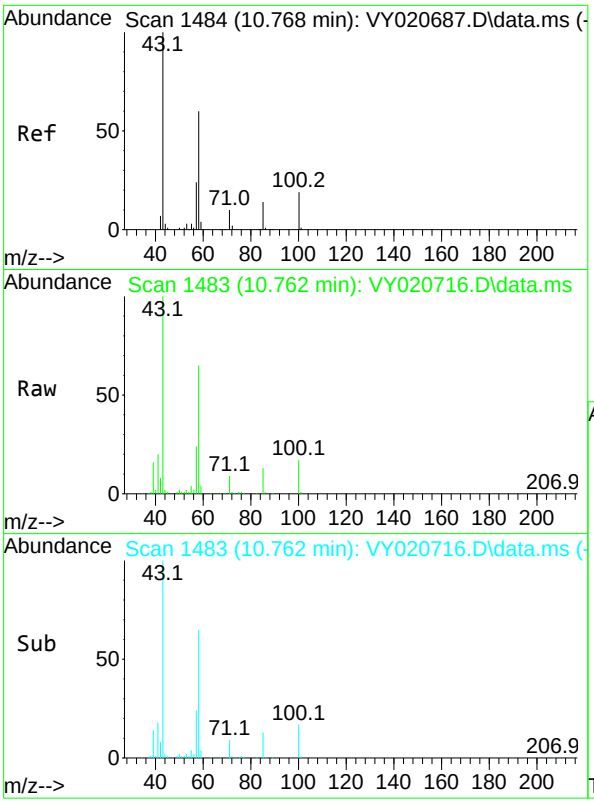




#58
2-Chloroethyl Vinyl ether
Concen: 103.542 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 63 Resp: 29367

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 37.3 | 29.1 | 43.7 |



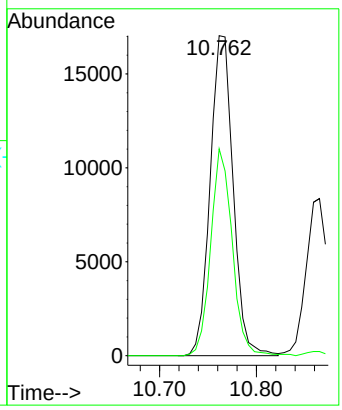


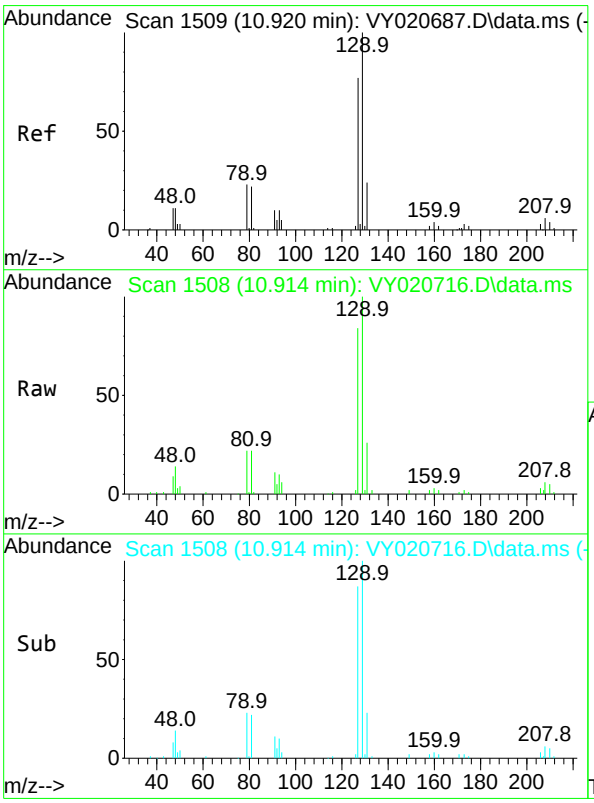

#59
2-Hexanone
Concen: 105.605 ug/l
RT: 10.762 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 43 Resp: 28166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 60.5 | 30.1 | 90.5 |

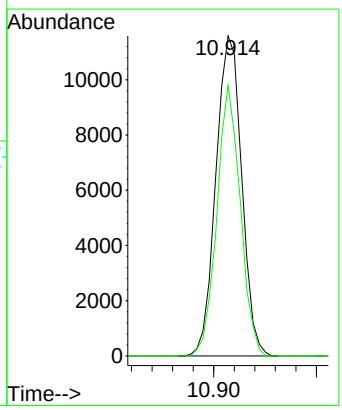


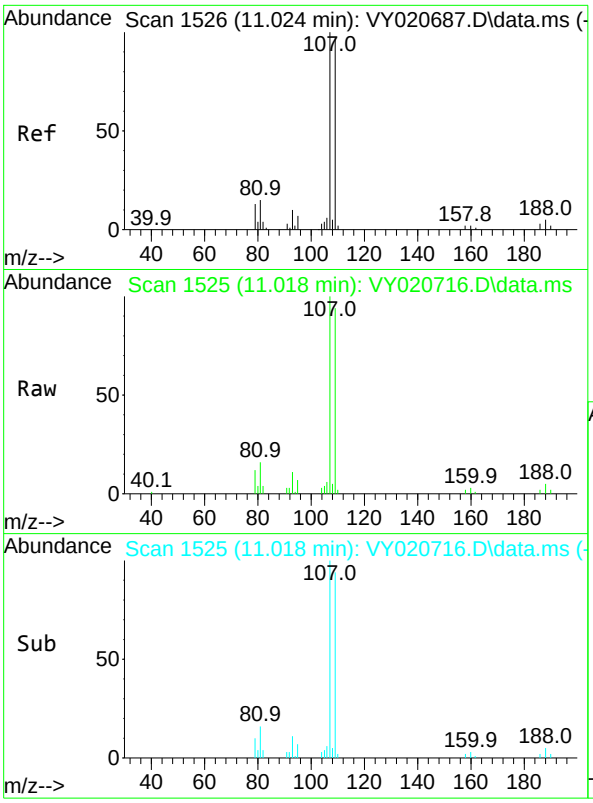




#60
Dibromochloromethane
Concen: 20.149 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:129 Resp: 20157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.7 | 38.5 | 115.5 |



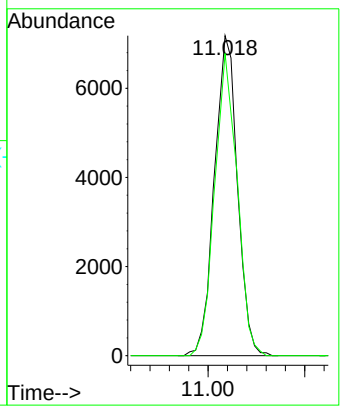


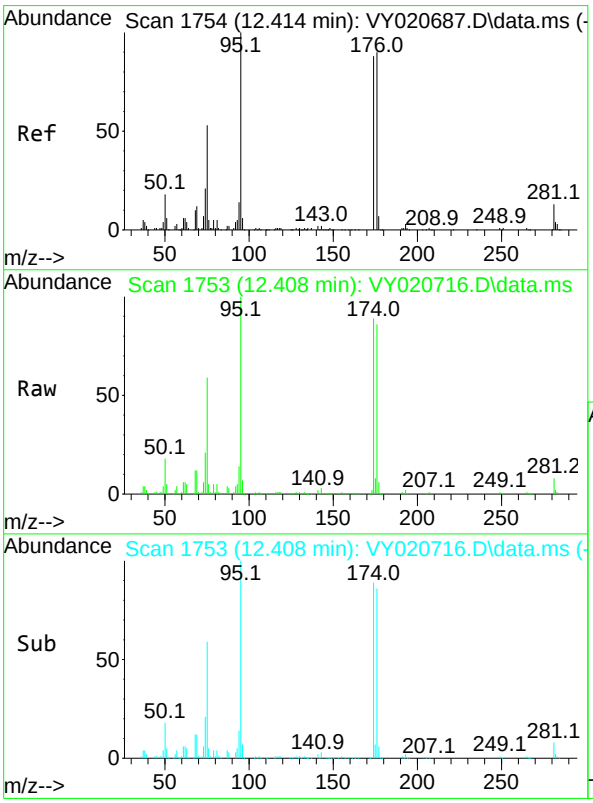

#61
1,2-Dibromoethane
Concen: 20.304 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:107 Resp: 11828

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 92.6 | 75.5 | 113.3 |

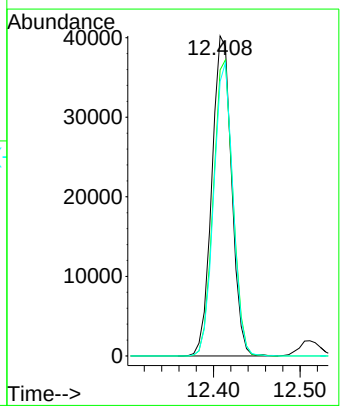


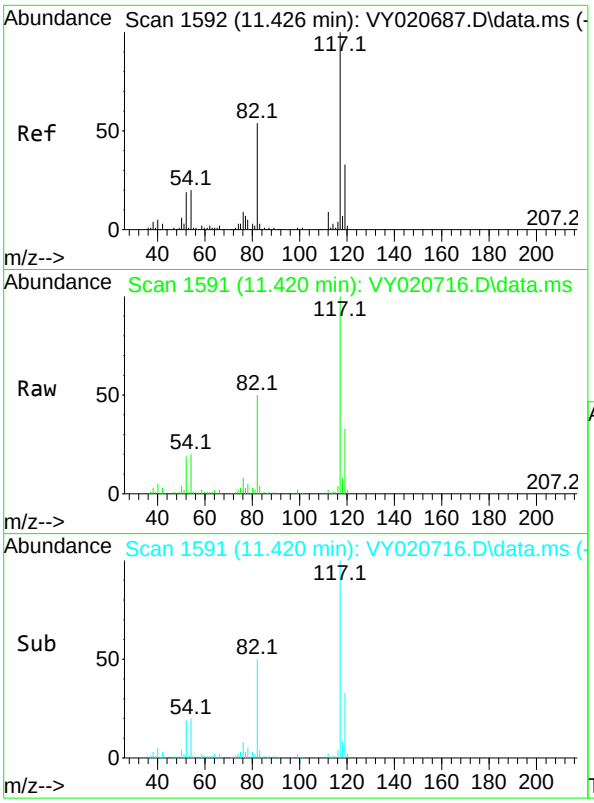




#62
4-Bromofluorobenzene
Concen: 52.931 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 95 Resp: 63630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.2 | 0.0 | 179.2 |
| 176 | 89.1 | 0.0 | 179.8 |



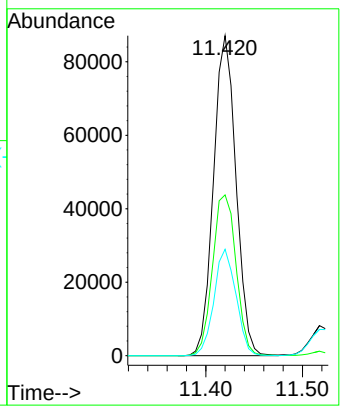


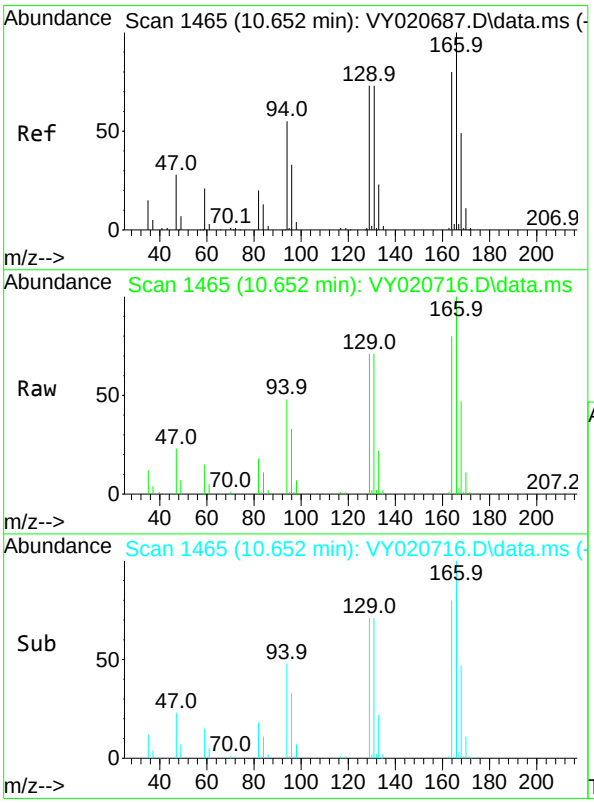

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:117 Resp: 140702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 50.3 | 43.4 | 65.2 |
| 119 | 33.3 | 26.6 | 39.8 |

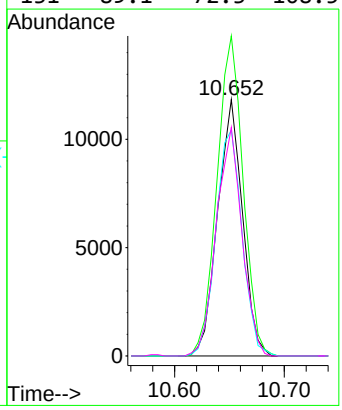


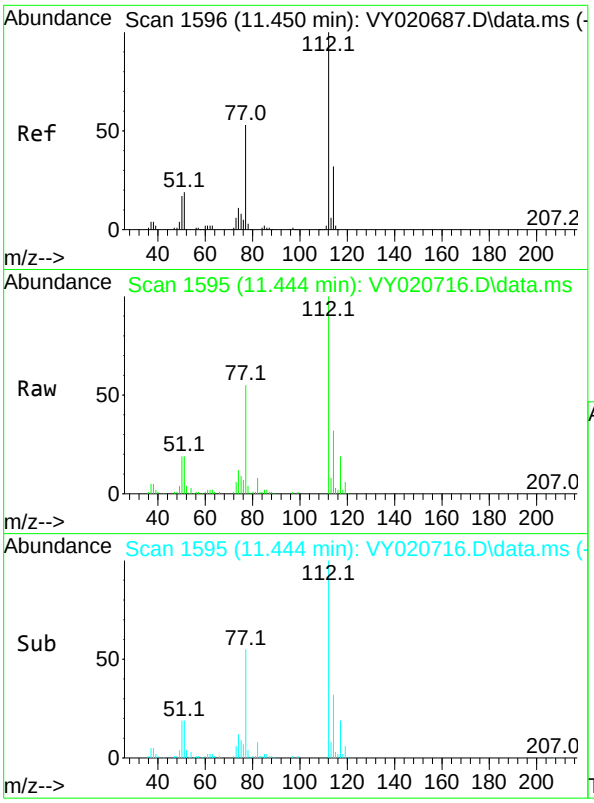




#64
Tetrachloroethene
Concen: 19.410 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:164 Resp: 18659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.8 | 99.6 | 149.4 |
| 129 | 88.2 | 73.0 | 109.4 |
| 131 | 89.1 | 72.3 | 108.5 |



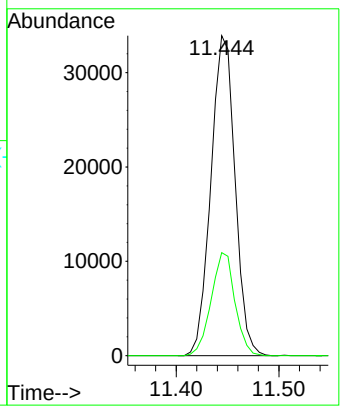


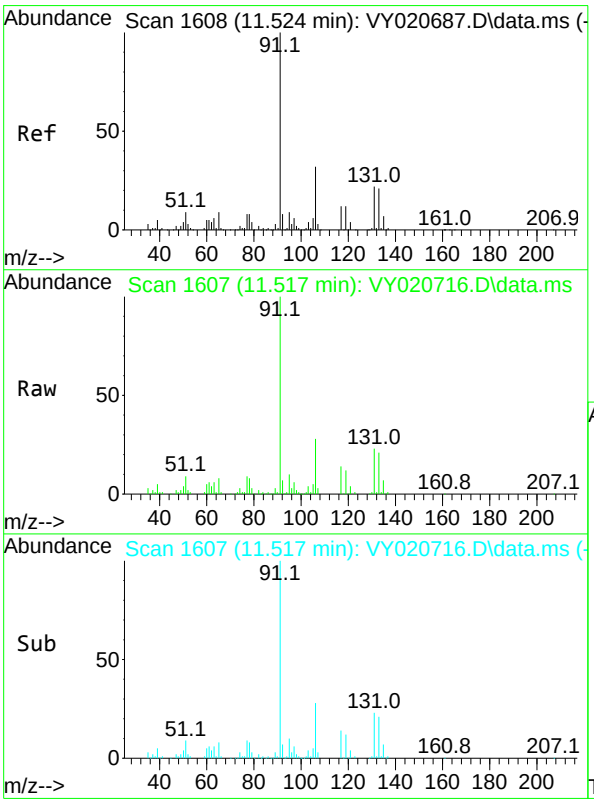

#65
Chlorobenzene
Concen: 20.095 ug/l
RT: 11.444 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:112 Resp: 55362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 25.4 | 38.0 |

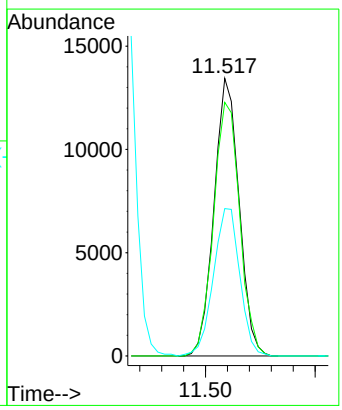


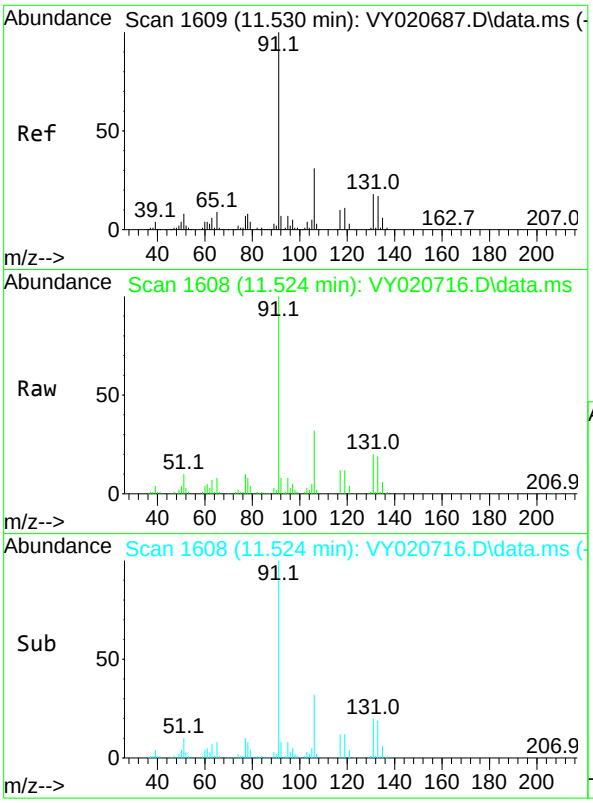




#66
1,1,1,2-Tetrachloroethane
Concen: 19.985 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.007 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:131 Resp: 21331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.6 | 48.6 | 145.9 |
| 119 | 56.1 | 28.4 | 85.3 |



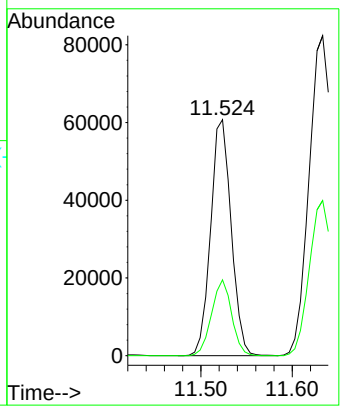


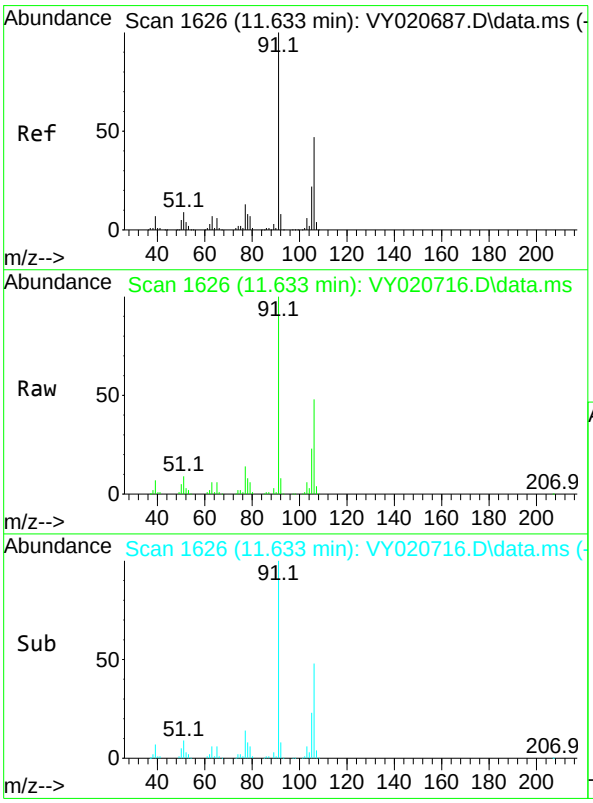

#67
Ethyl Benzene
Concen: 19.693 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 91 Resp: 94825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 32.1 | 24.5 | 36.7 |

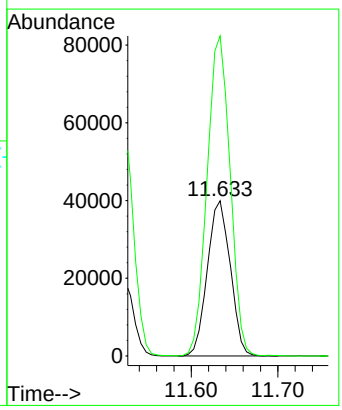


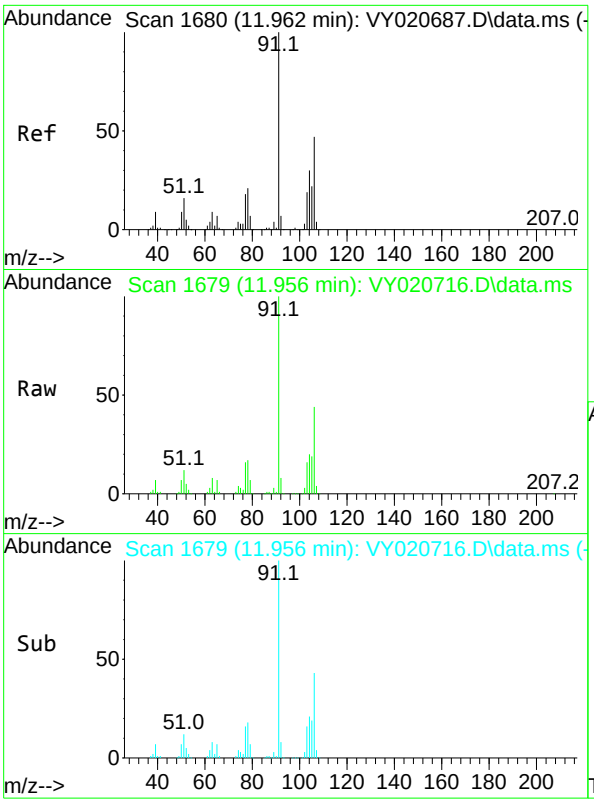




#68
m/p-Xylenes
Concen: 40.019 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:106 Resp: 73507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.3 | 166.6 | 250.0 |



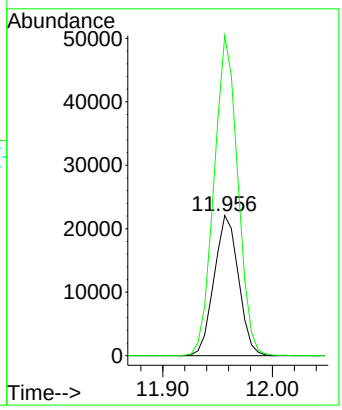


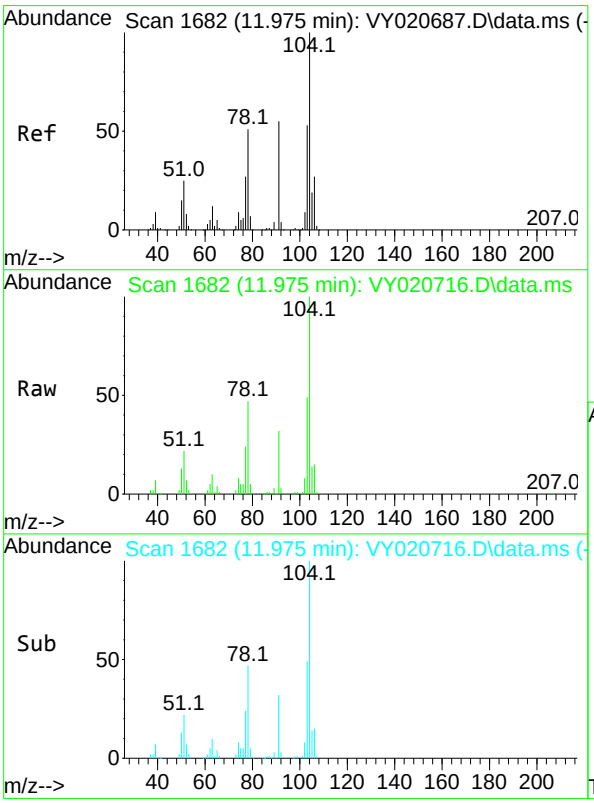

#69
o-Xylene
Concen: 19.455 ug/l
RT: 11.956 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:106 Resp: 34142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 223.0 | 108.6 | 325.8 |

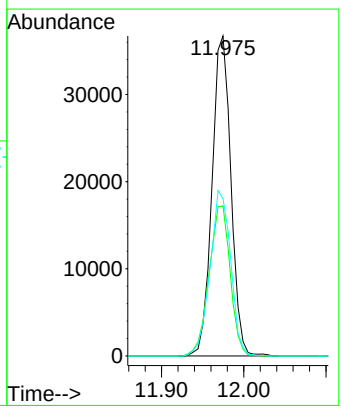


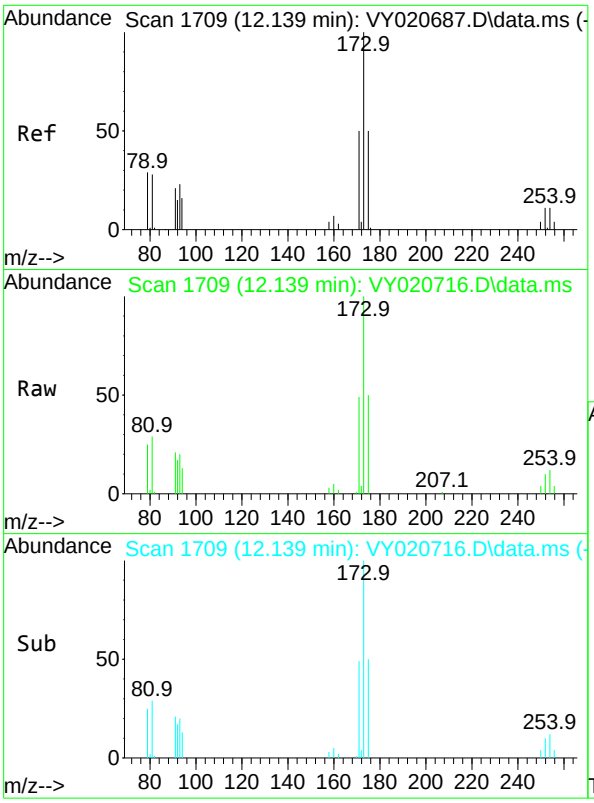




#70
Styrene
Concen: 19.918 ug/l
RT: 11.975 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:104 Resp: 58678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.5 | 43.0 | 64.4 |
| 103 | 56.3 | 44.4 | 66.6 |



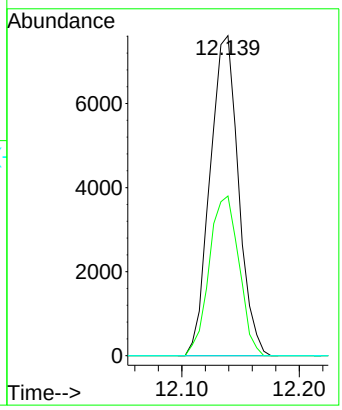


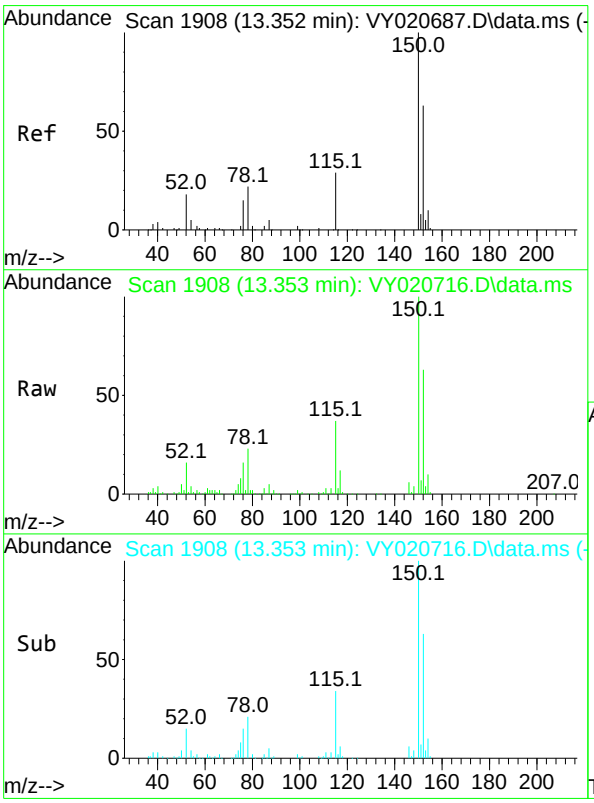

#71
Bromoform
Concen: 20.885 ug/l
RT: 12.139 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:173 Resp: 12816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 52.1 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

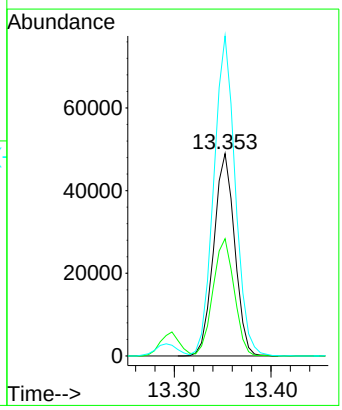


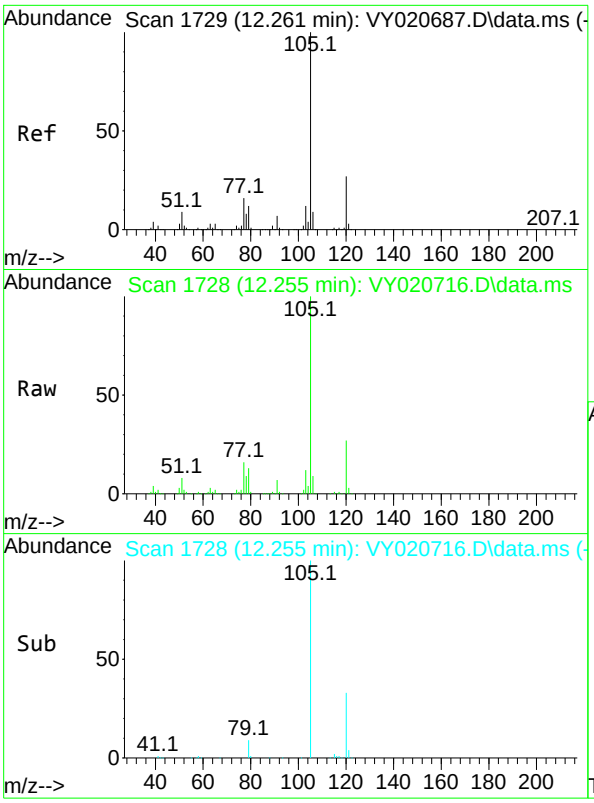




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.353 min Scan# 1908
Delta R.T. 0.001 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:152 Resp: 73666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.8 | 30.3 | 90.9 |
| 150 | 162.1 | 0.0 | 349.0 |



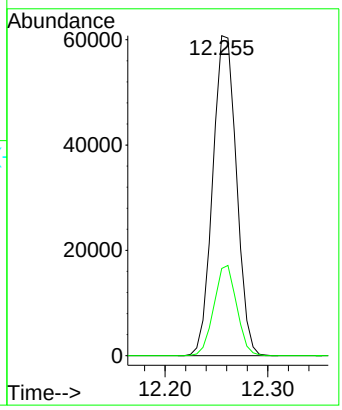


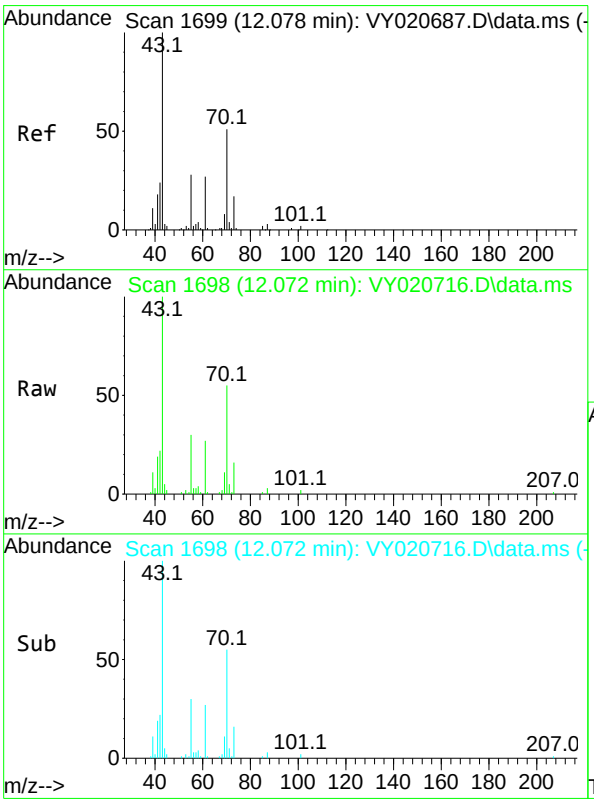

#73
Isopropylbenzene
Concen: 19.094 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:105 Resp: 97450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.3 | 39.9 |

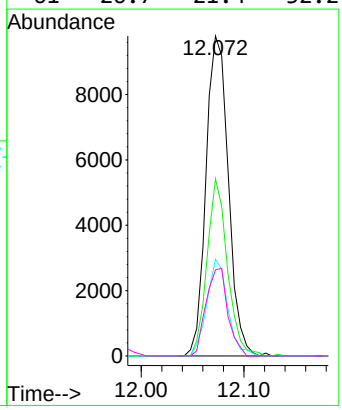


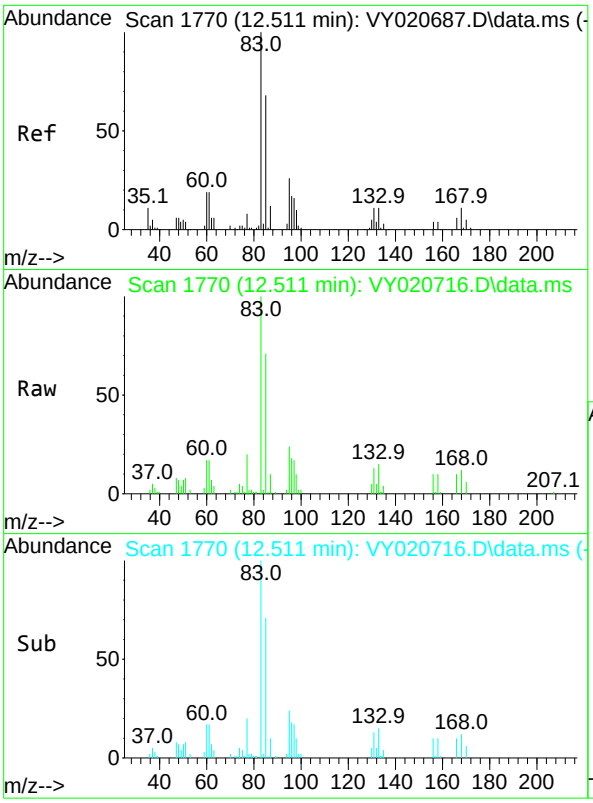




#74
N-amyl acetate
Concen: 20.431 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 43 Resp: 14818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 50.5 | 39.7 | 59.5 |
| 55 | 28.3 | 21.5 | 32.3 |
| 61 | 26.7 | 21.4 | 32.2 |



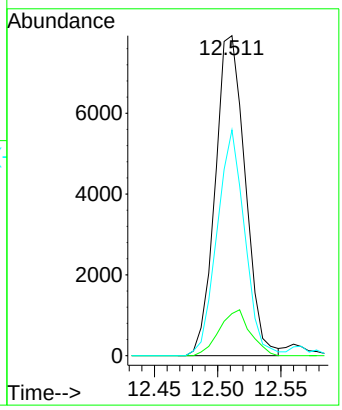


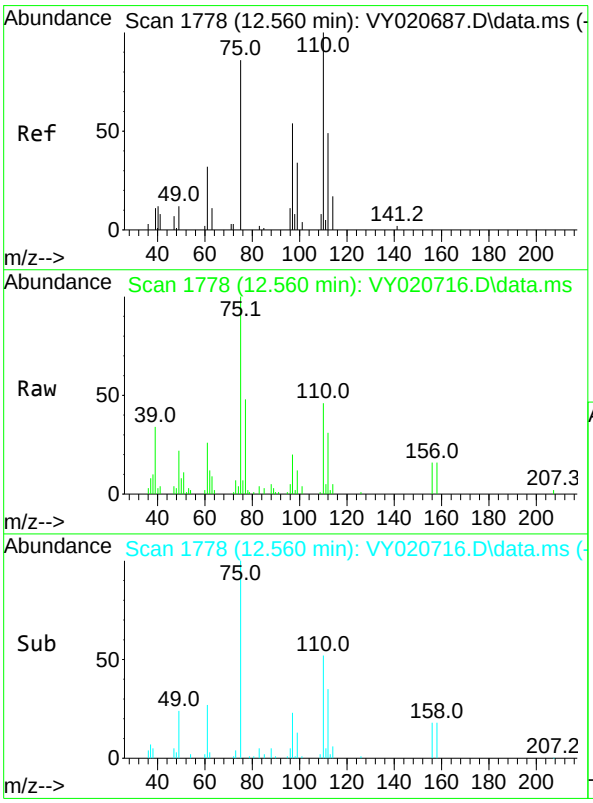

#75
1,1,2,2-Tetrachloroethane
Concen: 19.900 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 83 Resp: 13020

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.7 | 6.9 | 20.7 |
| 85 | 65.4 | 32.5 | 97.4 |

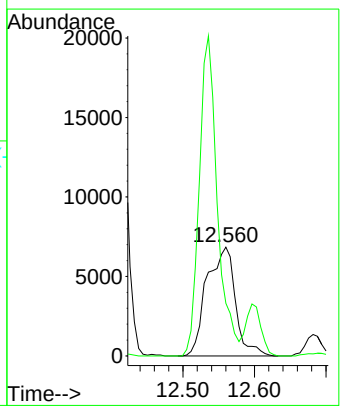


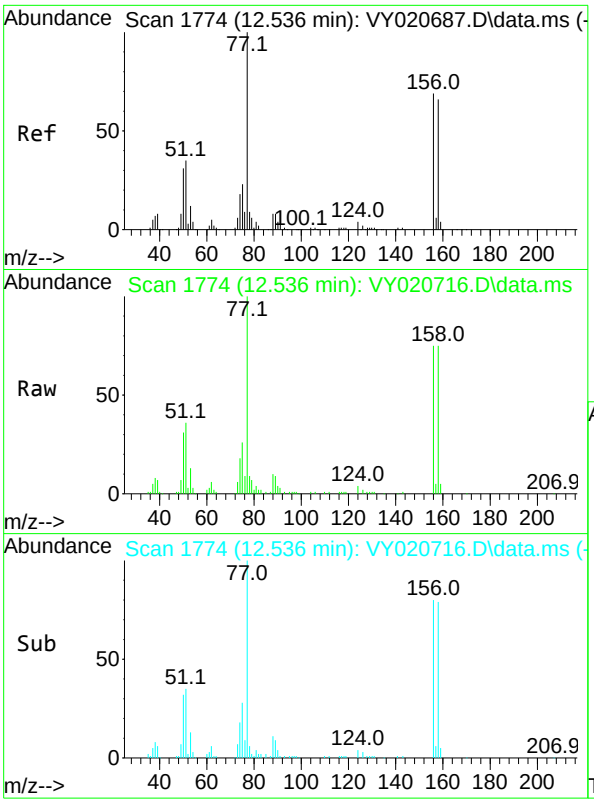




#76
1,2,3-Trichloropropane
Concen: 40.670 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 75 Resp: 19055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



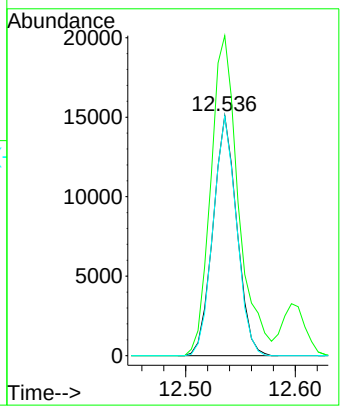


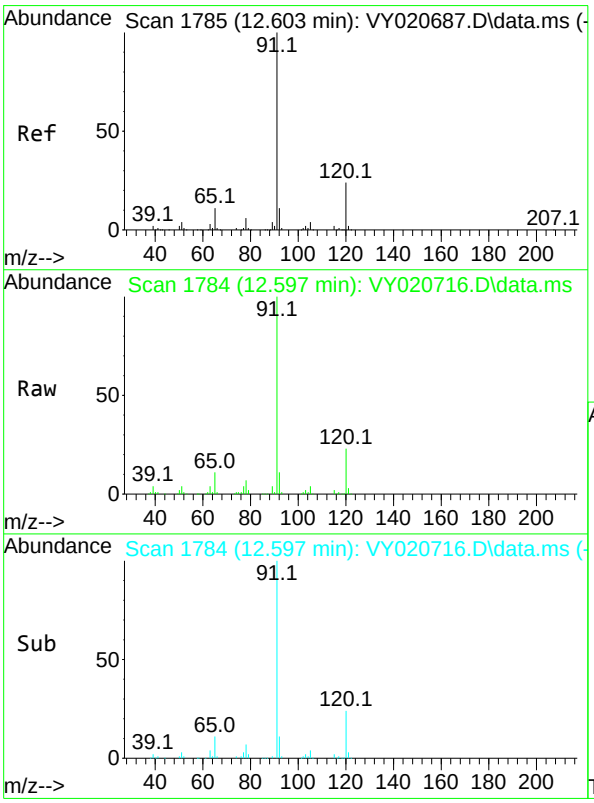

#77
Bromobenzene
Concen: 19.396 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:156 Resp: 22787

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 155.4 | 78.3 | 235.0 |
| 158 | 98.3 | 48.3 | 144.9 |

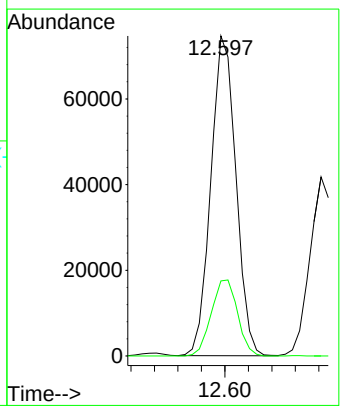


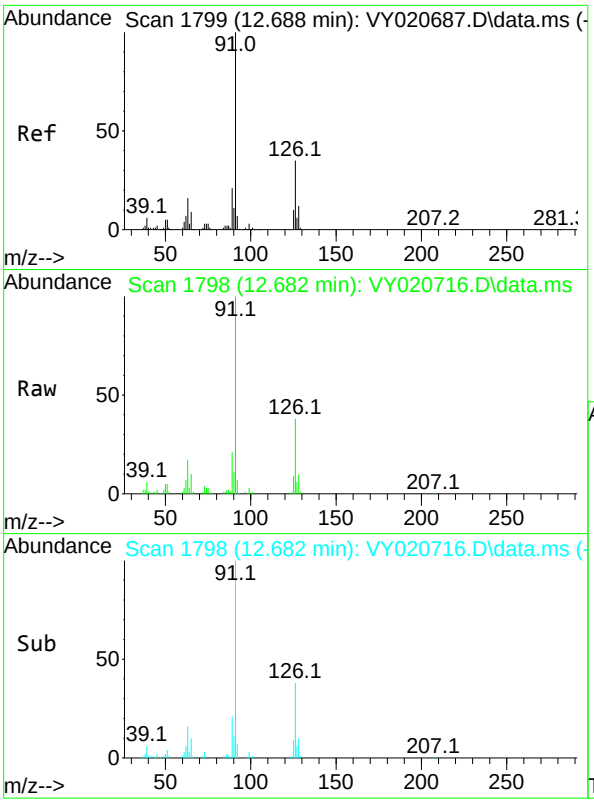




#78
n-propylbenzene
Concen: 19.355 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 91 Resp: 110719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.9 | 12.3 | 36.8 |



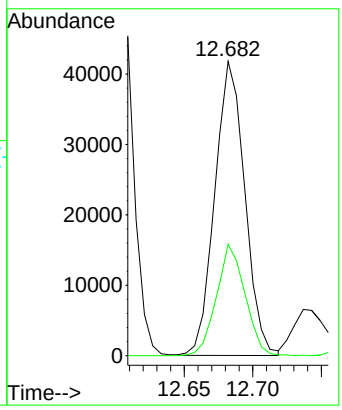


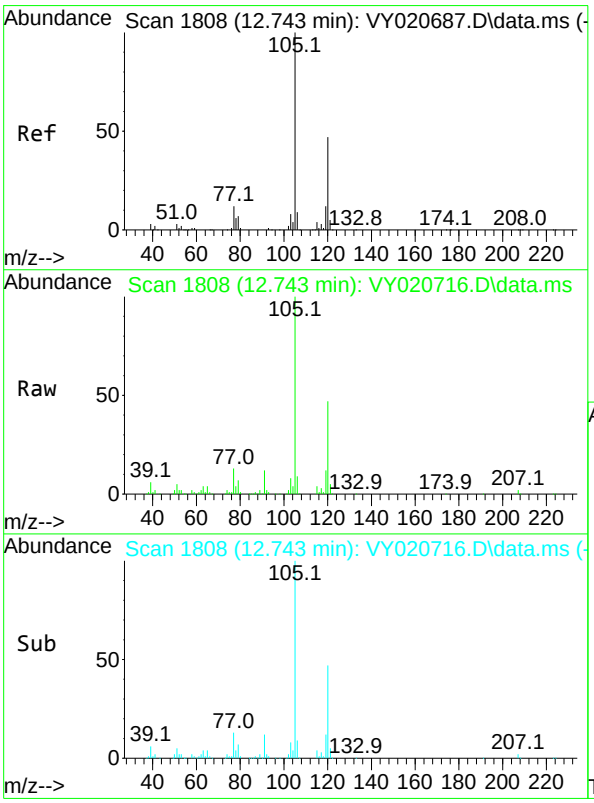

#79
2-Chlorotoluene
Concen: 19.509 ug/l
RT: 12.682 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 91 Resp: 63619

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 36.0 | 17.8 | 53.3 |

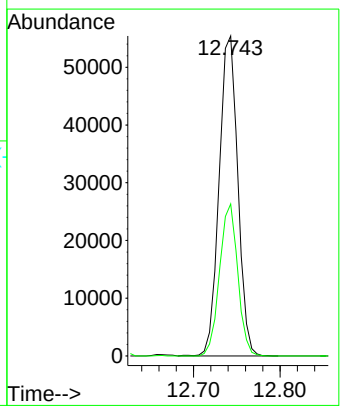


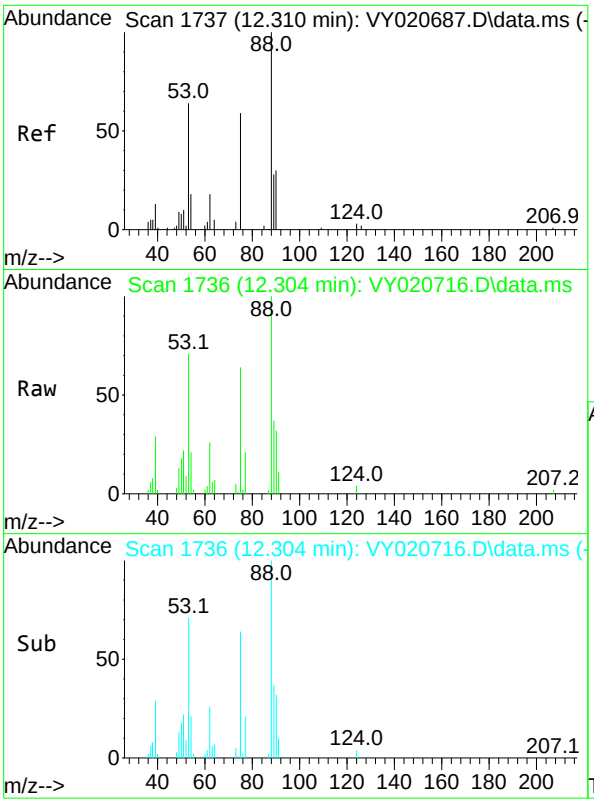




#80
1,3,5-Trimethylbenzene
Concen: 19.509 ug/l
RT: 12.743 min Scan# 1808
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:105 Resp: 82956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 46.2 | 23.9 | 71.7 |



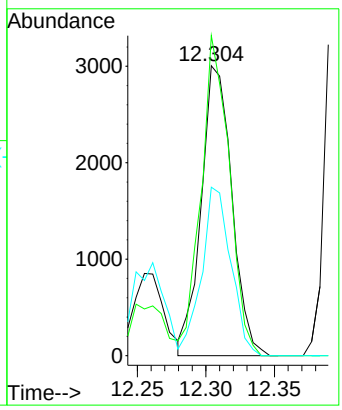


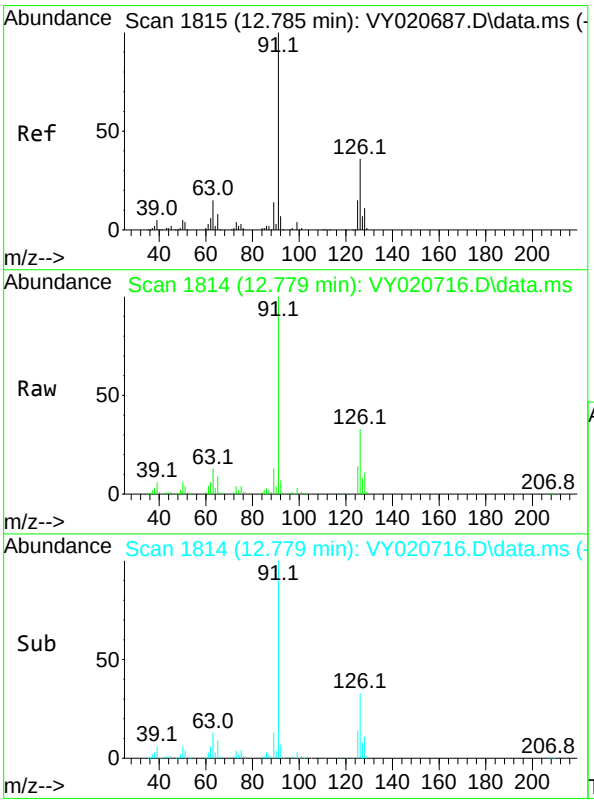

#81
trans-1,4-Dichloro-2-butene
Concen: 19.790 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 75 Resp: 4691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 101.6 | 83.1 | 124.7 |
| 89 | 55.3 | 40.6 | 61.0 |

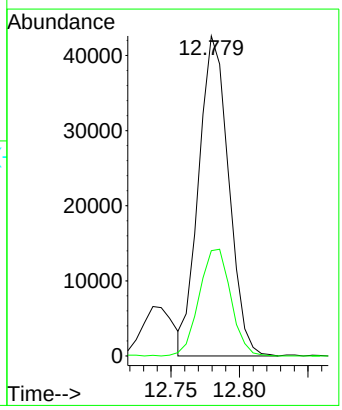


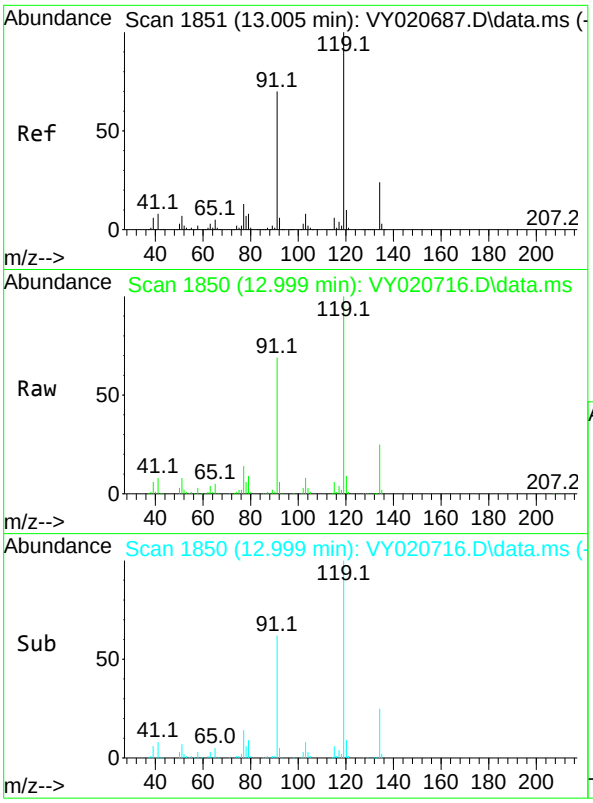




#82
4-Chlorotoluene
Concen: 19.219 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 91 Resp: 64772

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.2 | 17.8 | 53.5 |



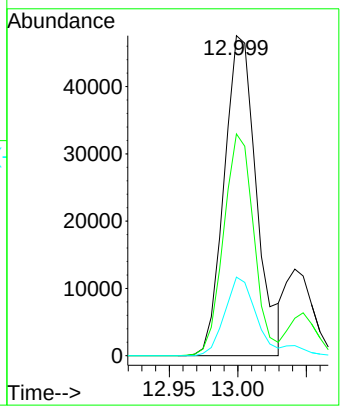


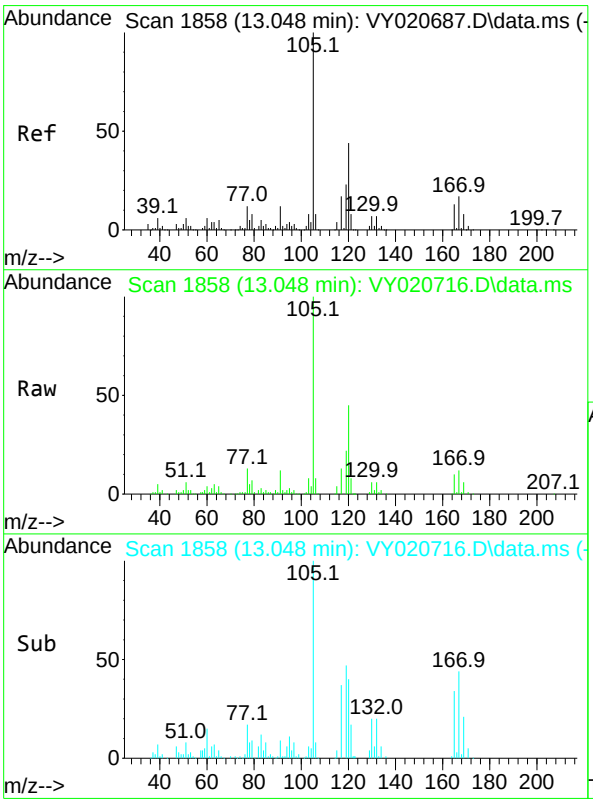

#83
tert-Butylbenzene
Concen: 19.685 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:119 Resp: 78168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 65.0 | 33.6 | 100.8 |
| 134 | 25.7 | 13.4 | 40.2 |

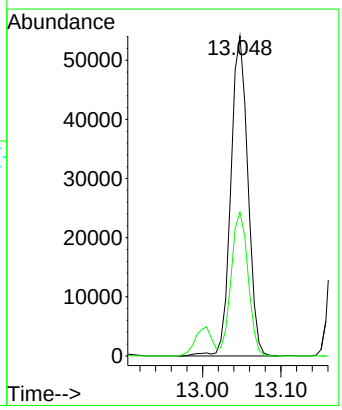


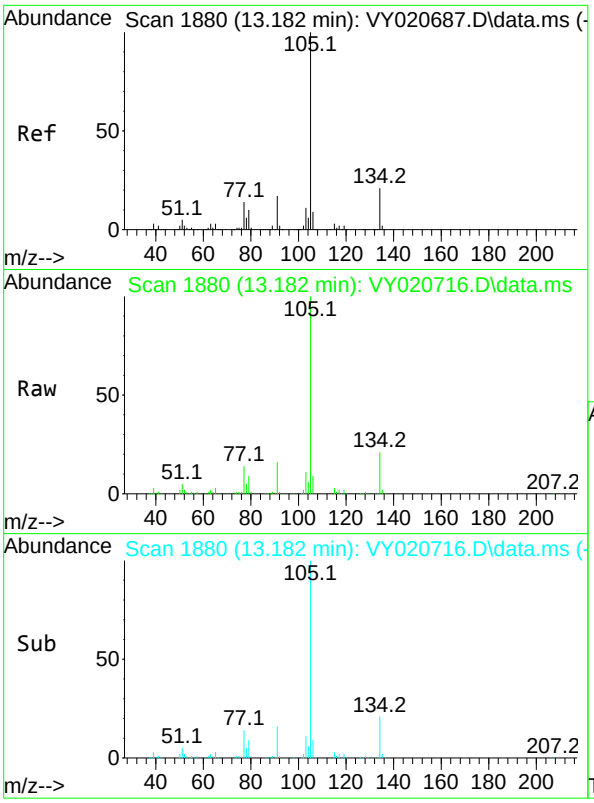




#84
1,2,4-Trimethylbenzene
Concen: 19.695 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:105 Resp: 81496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.9 | 21.8 | 65.3 |



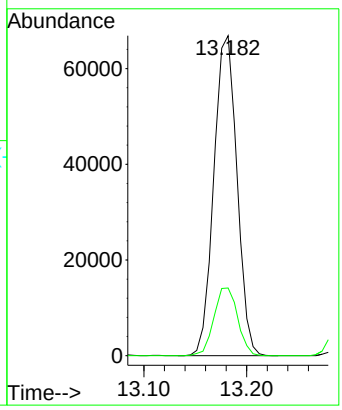


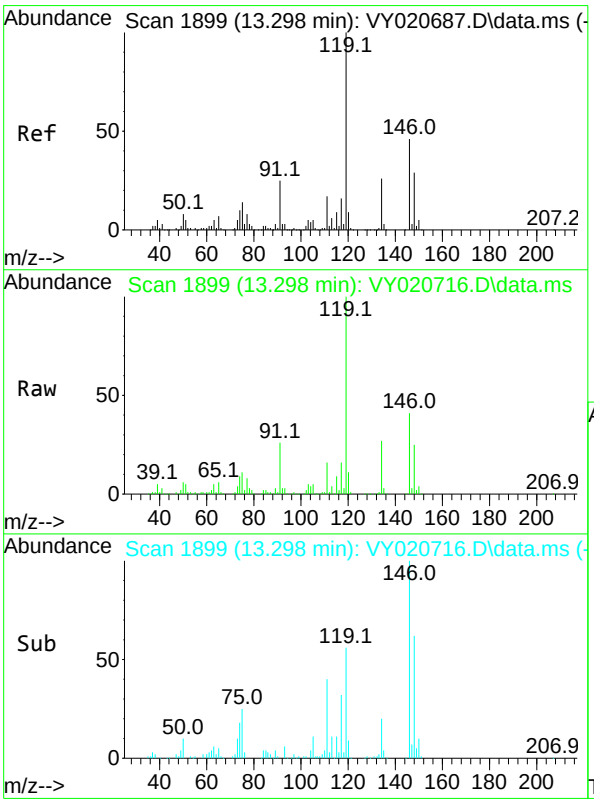

#85
sec-Butylbenzene
Concen: 19.495 ug/l
RT: 13.182 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:105 Resp: 104334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.7 | 10.7 | 32.1 |

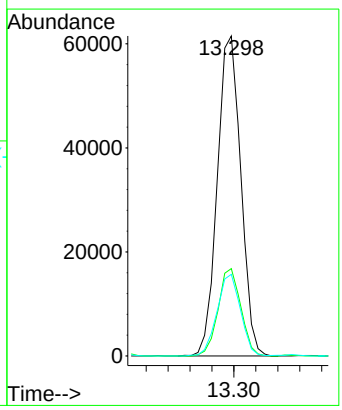


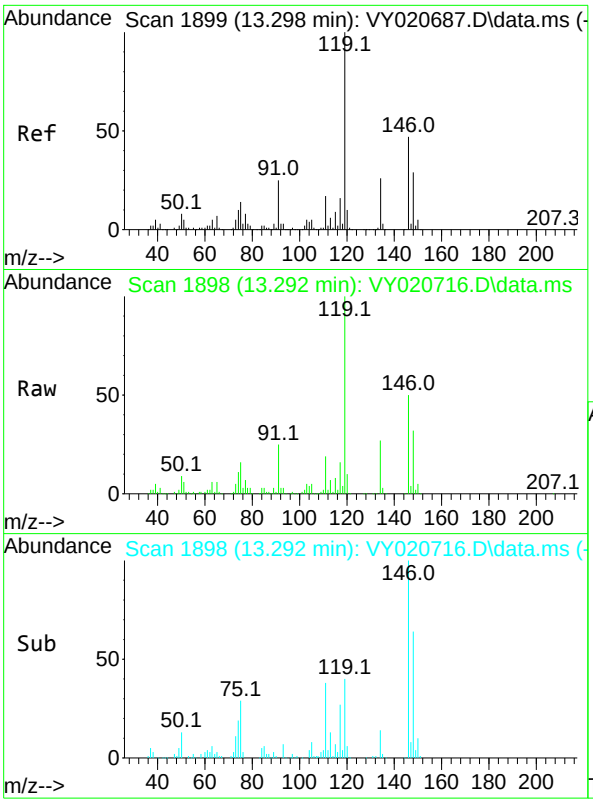




#86
p-Isopropyltoluene
Concen: 19.238 ug/l
RT: 13.298 min Scan# 1899
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:119 Resp: 91757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.4 | 13.4 | 40.2 |
| 91 | 25.4 | 12.9 | 38.6 |



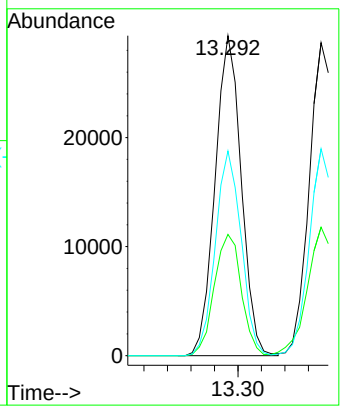


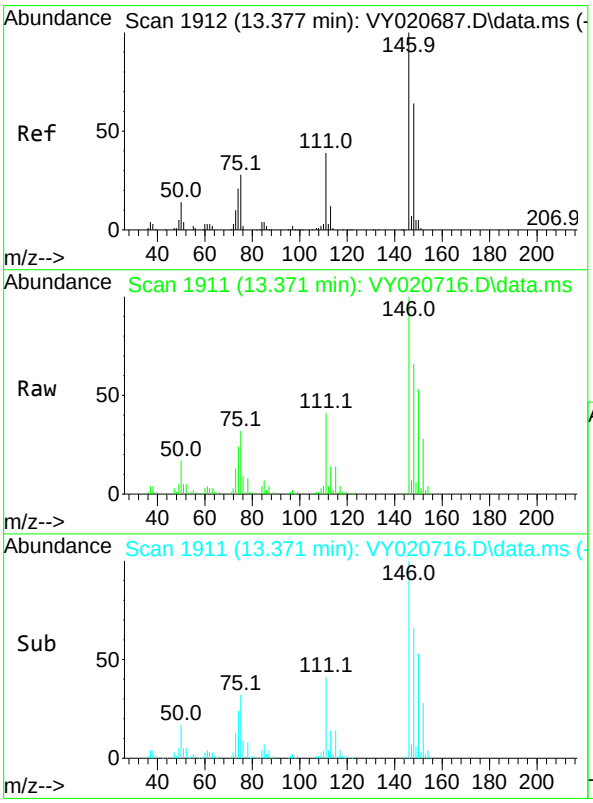

#87
1,3-Dichlorobenzene
Concen: 19.781 ug/l
RT: 13.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:146 Resp: 45422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.2 | 19.3 | 57.8 |
| 148 | 63.1 | 31.1 | 93.5 |

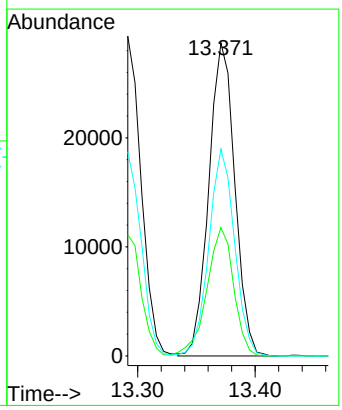


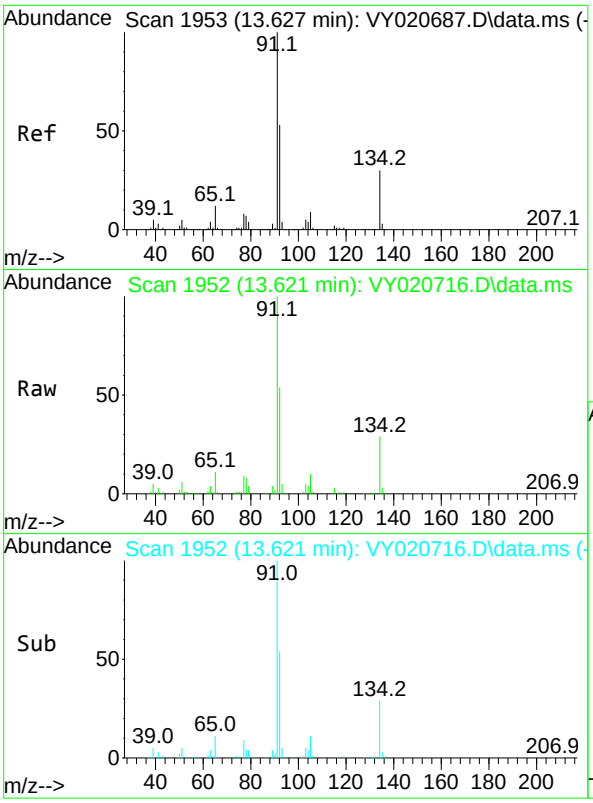




#88
1,4-Dichlorobenzene
Concen: 19.360 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:146 Resp: 44221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.1 | 19.7 | 59.0 |
| 148 | 65.5 | 32.8 | 98.3 |



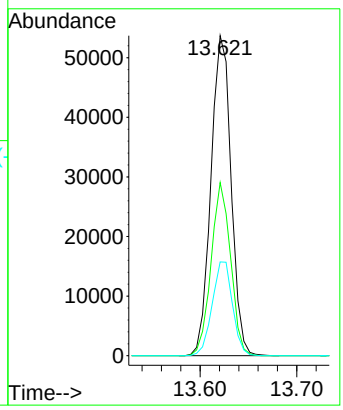


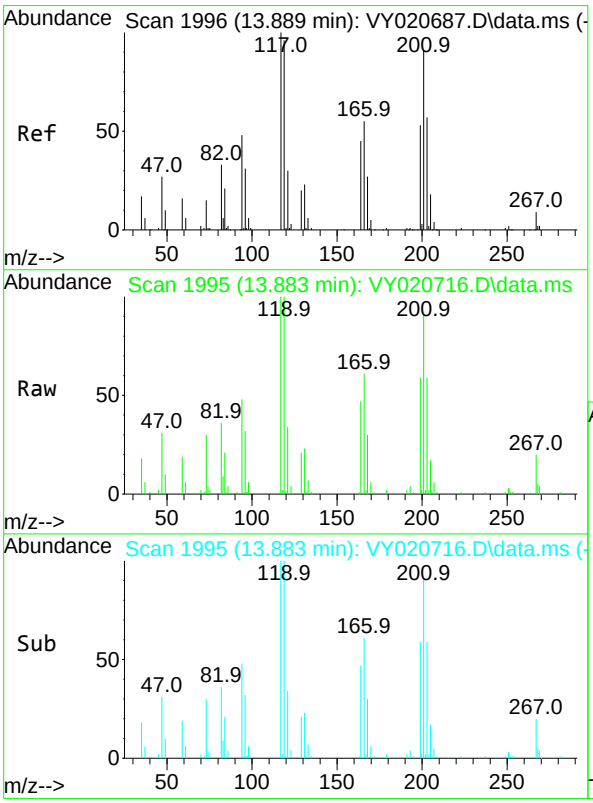

#89
n-Butylbenzene
Concen: 19.544 ug/l
RT: 13.621 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion: 91 Resp: 77813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.3 | 26.1 | 78.2 |
| 134 | 29.5 | 14.8 | 44.4 |

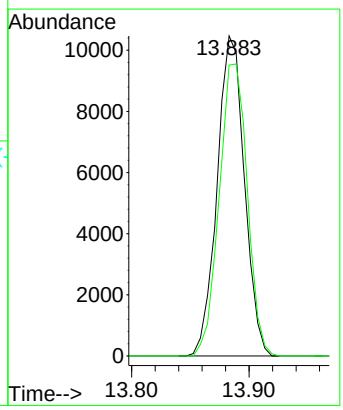


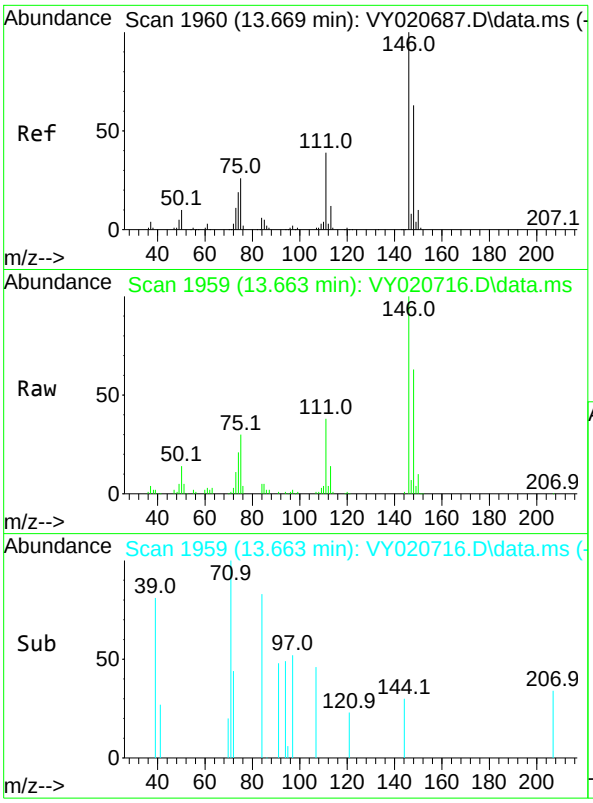




#90
Hexachloroethane
Concen: 18.644 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:117 Resp: 16909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 93.8 | 44.9 | 134.7 |



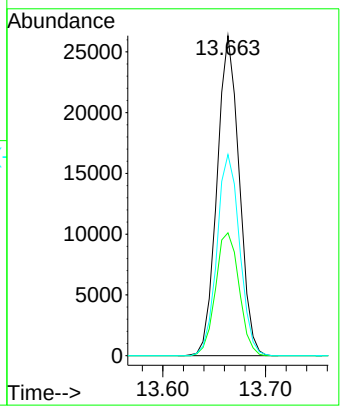


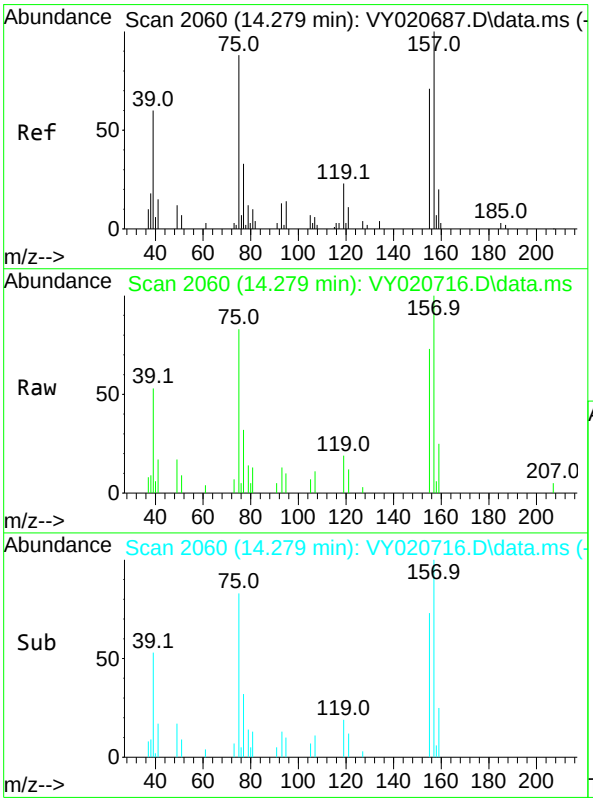

#91
1,2-Dichlorobenzene
Concen: 20.046 ug/l
RT: 13.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:146 Resp: 39466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.8 | 20.3 | 60.8 |
| 148 | 64.3 | 31.9 | 95.5 |

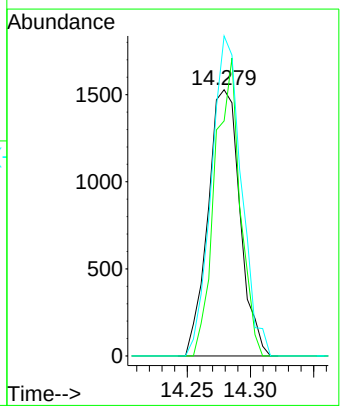


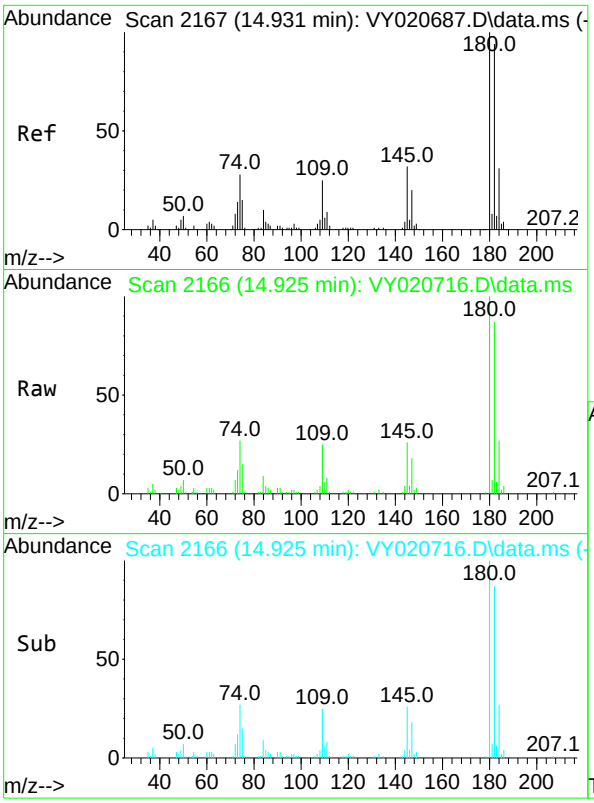




#92
1,2-Dibromo-3-Chloropropane
Concen: 21.198 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion: 75 Resp: 2690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 87.6 | 43.4 | 130.2 |
| 157 | 112.9 | 58.6 | 175.7 |



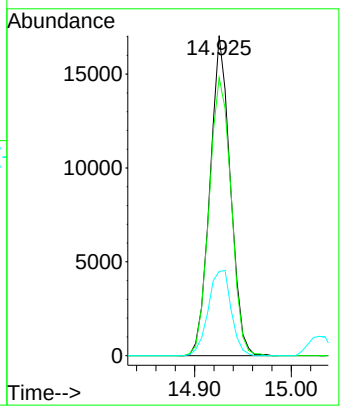


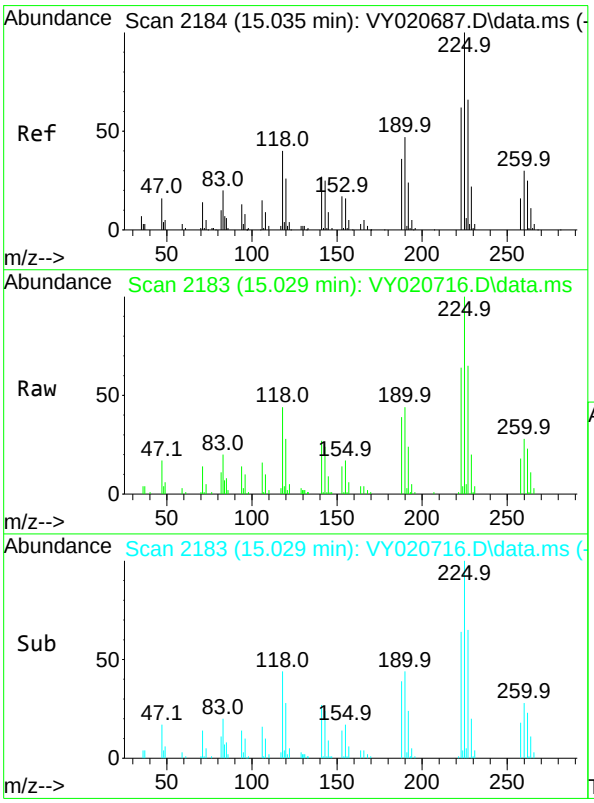

#93
1,2,4-Trichlorobenzene
Concen: 19.888 ug/l
RT: 14.925 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:180 Resp: 24888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.5 | 47.9 | 143.7 |
| 145 | 30.1 | 15.6 | 46.8 |

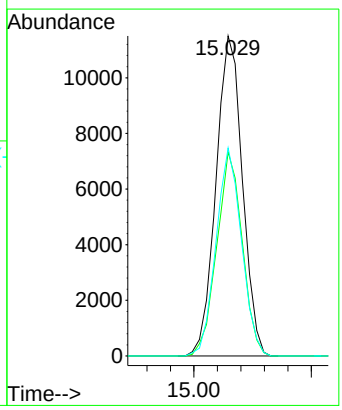


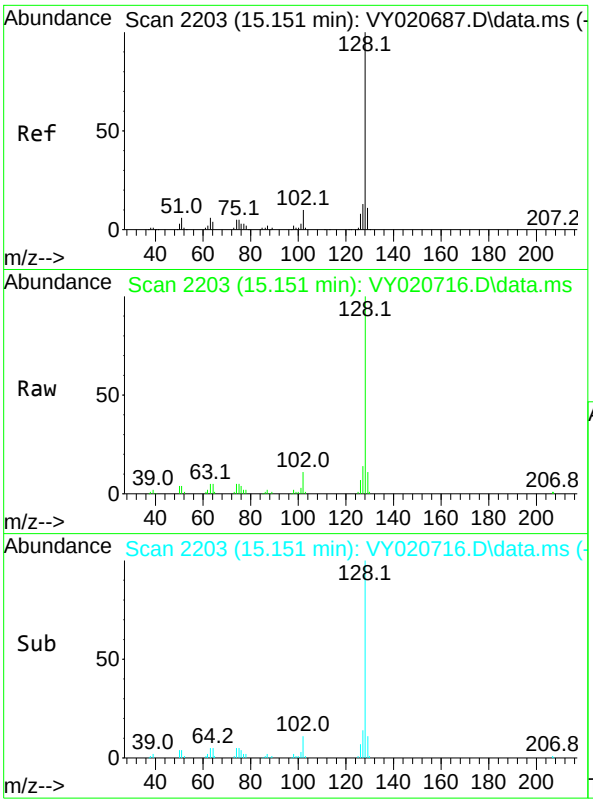




#94
Hexachlorobutadiene
Concen: 19.715 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:225 Resp: 17981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 61.4 | 31.3 | 93.8 |
| 227 | 62.6 | 32.1 | 96.5 |



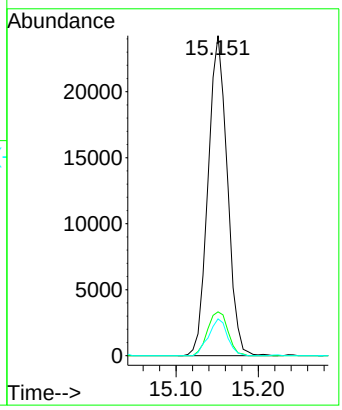


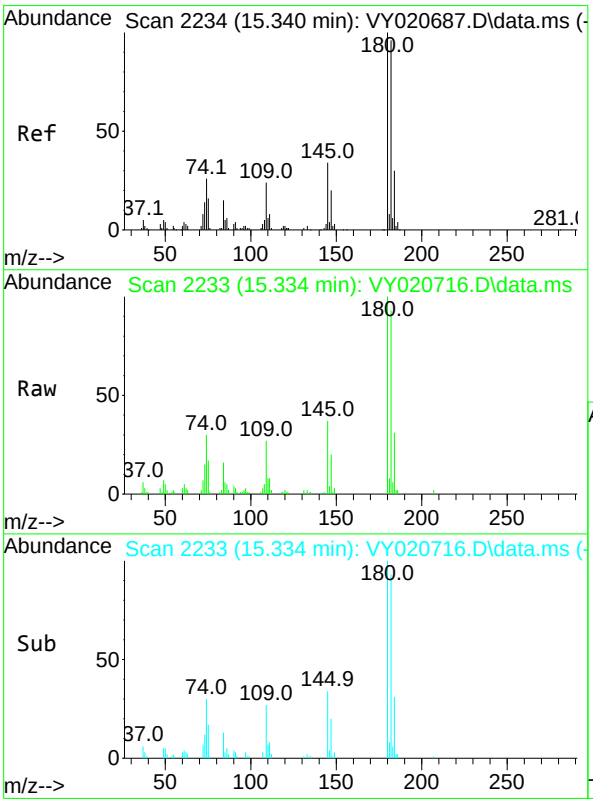

#95
Naphthalene
Concen: 19.639 ug/l
RT: 15.151 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VY1226SBSD01

Tgt Ion:128 Resp: 39363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 14.5 | 10.7 | 16.1 |
| 129 | 11.3 | 8.6 | 12.8 |

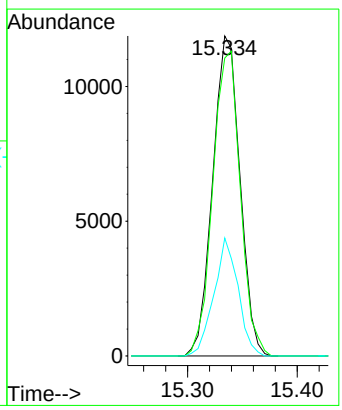



#96
1,2,3-Trichlorobenzene
Concen: 19.681 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. -0.006 min
Lab File: VY020716.D
Acq: 26 Dec 2024 14:54

Tgt Ion:180 Resp: 20507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.1 | 47.4 | 142.2 |
| 145 | 32.8 | 16.7 | 50.1 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 7.713 | 168 | 118688 | 50.000 | ug/l | -0.01 |
| 34) 1,4-Difluorobenzene | 8.616 | 114 | 172132 | 50.000 | ug/l | -0.01 |
| 63) Chlorobenzene-d5 | 11.420 | 117 | 148030 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152 | 76525 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 8.067 | 65 | 57538 | 59.186 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 50 - 163 | | Recovery = 118.380% | | | |
| 35) Dibromofluoromethane | 7.640 | 113 | 52517 | 55.390 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 54 - 147 | | Recovery = 110.780% | | | |
| 50) Toluene-d8 | 10.109 | 98 | 201423 | 53.305 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 58 - 134 | | Recovery = 106.600% | | | |
| 62) 4-Bromofluorobenzene | 12.408 | 95 | 70702 | 56.112 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 29 - 146 | | Recovery = 112.220% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.867 | 85 | 42146 | 45.114 | ug/l | 94 |
| 3) Chloromethane | 2.074 | 50 | 18374 | 52.737 | ug/l | 94 |
| 4) Vinyl Chloride | 2.208 | 62 | 21249 | 49.224 | ug/l | 96 |
| 5) Bromomethane | 2.604 | 94 | 16604 | 50.944 | ug/l | 93 |
| 6) Chloroethane | 2.745 | 64 | 13180 | 50.896 | ug/l | 97 |
| 7) Trichlorofluoromethane | 3.068 | 101 | 73042 | 44.000 | ug/l | 98 |
| 8) Diethyl Ether | 3.464 | 74 | 21450 | 54.301 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 3.824 | 101 | 43414 | 47.637 | ug/l | 99 |
| 10) Methyl Iodide | 4.013 | 142 | 51674 | 51.852 | ug/l | 100 |
| 11) Tert butyl alcohol | 4.878 | 59 | 16118 | 266.739 | ug/l # | 81 |
| 12) 1,1-Dichloroethene | 3.799 | 96 | 40626 | 50.083 | ug/l | 97 |
| 13) Acrolein | 3.659 | 56 | 3260 | 160.414 | ug/l | 98 |
| 14) Allyl chloride | 4.391 | 41 | 50835 | 53.553 | ug/l | 93 |
| 15) Acrylonitrile | 5.073 | 53 | 40816 | 267.470 | ug/l | 97 |
| 16) Acetone | 3.879 | 43 | 29116 | 236.085 | ug/l | 97 |
| 17) Carbon Disulfide | 4.116 | 76 | 104201 | 52.366 | ug/l | 98 |
| 18) Methyl Acetate | 4.391 | 43 | 18350 | 54.975 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 5.122 | 73 | 118115 | 52.242 | ug/l | 98 |
| 20) Methylene Chloride | 4.628 | 84 | 43712 | 54.496 | ug/l | 96 |
| 21) trans-1,2-Dichloroethene | 5.122 | 96 | 46151 | 52.798 | ug/l | 97 |
| 22) Diisopropyl ether | 6.025 | 45 | 108472 | 56.213 | ug/l | 99 |
| 23) Vinyl Acetate | 5.970 | 43 | 314401 | 272.779 | ug/l | 96 |
| 24) 1,1-Dichloroethane | 5.927 | 63 | 76973 | 53.204 | ug/l | 98 |
| 25) 2-Butanone | 6.896 | 43 | 45661 | 274.081 | ug/l | 90 |
| 26) 2,2-Dichloropropane | 6.890 | 77 | 83233 | 47.004 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 6.896 | 96 | 55233 | 52.764 | ug/l | 97 |
| 28) Bromochloromethane | 7.250 | 49 | 23832 | 62.291 | ug/l | 98 |
| 29) Tetrahydrofuran | 7.262 | 42 | 28493 | 278.632 | ug/l | 99 |
| 30) Chloroform | 7.427 | 83 | 95317 | 51.215 | ug/l | 99 |
| 31) Cyclohexane | 7.707 | 56 | 56780 | 45.467 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 7.622 | 97 | 96771 | 48.508 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 7.841 | 75 | 59925 | 47.847 | ug/l | 98 |
| 37) Ethyl Acetate | 6.988 | 43 | 21782 | 52.779 | ug/l | 98 |
| 38) Carbon Tetrachloride | 7.823 | 117 | 92693 | 44.945 | ug/l | 96 |
| 39) Methylcyclohexane | 9.115 | 83 | 73974 | 46.082 | ug/l | 95 |
| 40) Benzene | 8.085 | 78 | 184941 | 50.952 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 7.232 | 41 | 12457 | 59.754 | ug/l | | 94 |
| 42) 1,2-Dichloroethane | 8.164 | 62 | 58148 | 49.961 | ug/l | | 99 |
| 43) Isopropyl Acetate | 8.201 | 43 | 45902 | 52.327 | ug/l | | 100 |
| 44) Trichloroethene | 8.865 | 130 | 52902 | 48.797 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 9.146 | 63 | 38629 | 52.575 | ug/l | | 99 |
| 46) Dibromomethane | 9.237 | 93 | 25757 | 50.665 | ug/l | | 96 |
| 47) Bromodichloromethane | 9.426 | 83 | 71632 | 49.700 | ug/l | | 93 |
| 48) Methyl methacrylate | 9.225 | 41 | 20264 | 49.466 | ug/l | | 98 |
| 49) 1,4-Dioxane | 9.237 | 88 | 5473 | 1130.206 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 9.999 | 43 | 111120 | 262.443 | ug/l | | 99 |
| 52) Toluene | 10.170 | 92 | 126070 | 50.676 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 10.396 | 75 | 63222 | 49.943 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 9.859 | 75 | 70450 | 50.773 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 10.572 | 97 | 33307 | 51.326 | ug/l | | 96 |
| 56) Ethyl methacrylate | 10.444 | 69 | 44306 | 51.971 | ug/l | | 97 |
| 57) 1,3-Dichloropropane | 10.719 | 76 | 53860 | 51.138 | ug/l | | 96 |
| 58) 2-Chloroethyl Vinyl ether | 9.713 | 63 | 89410 | 300.757 | ug/l | | 99 |
| 59) 2-Hexanone | 10.761 | 43 | 76163 | 272.444 | ug/l | | 98 |
| 60) Dibromochloromethane | 10.914 | 129 | 51420 | 49.038 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 11.018 | 107 | 30175 | 49.418 | ug/l | | 98 |
| 64) Tetrachloroethene | 10.652 | 164 | 47206 | 46.676 | ug/l | | 98 |
| 65) Chlorobenzene | 11.444 | 112 | 143586 | 49.537 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 11.517 | 131 | 54805 | 48.804 | ug/l | | 99 |
| 67) Ethyl Benzene | 11.524 | 91 | 251000 | 49.546 | ug/l | | 99 |
| 68) m/p-Xylenes | 11.633 | 106 | 190725 | 98.695 | ug/l | | 99 |
| 69) o-Xylene | 11.956 | 106 | 91171 | 49.380 | ug/l | | 100 |
| 70) Styrene | 11.969 | 104 | 156202 | 50.397 | ug/l | | 98 |
| 71) Bromoform | 12.133 | 173 | 32013 | 49.586 | ug/l | # | 99 |
| 73) Isopropylbenzene | 12.255 | 105 | 249657 | 47.089 | ug/l | | 99 |
| 74) N-amyl acetate | 12.072 | 43 | 39222 | 52.059 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 12.511 | 83 | 33686 | 49.563 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 12.560 | 75 | 48645 | 99.947 | ug/l | # | 100 |
| 77) Bromobenzene | 12.536 | 156 | 59248 | 48.546 | ug/l | | 100 |
| 78) n-propylbenzene | 12.597 | 91 | 282155 | 47.482 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 12.682 | 91 | 162993 | 48.116 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 12.737 | 105 | 212033 | 48.002 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 12.304 | 75 | 12073 | 49.030 | ug/l | | 96 |
| 82) 4-Chlorotoluene | 12.779 | 91 | 167778 | 47.924 | ug/l | | 100 |
| 83) tert-Butylbenzene | 12.999 | 119 | 191560 | 46.437 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 13.048 | 105 | 209170 | 48.661 | ug/l | | 99 |
| 85) sec-Butylbenzene | 13.176 | 105 | 259512 | 46.679 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 13.292 | 119 | 231821 | 46.789 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 13.292 | 146 | 113309 | 47.503 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 13.371 | 146 | 112454 | 47.392 | ug/l | | 98 |
| 89) n-Butylbenzene | 13.621 | 91 | 190714 | 46.112 | ug/l | | 99 |
| 90) Hexachloroethane | 13.883 | 117 | 43349 | 46.011 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 13.663 | 146 | 100450 | 49.115 | ug/l | | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 14.279 | 75 | 6413 | 48.649 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 14.925 | 180 | 59790 | 45.993 | ug/l | | 100 |
| 94) Hexachlorobutadiene | 15.029 | 225 | 40572 | 42.822 | ug/l | | 100 |
| 95) Naphthalene | 15.151 | 128 | 97419 | 46.789 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 15.334 | 180 | 50331 | 46.500 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration

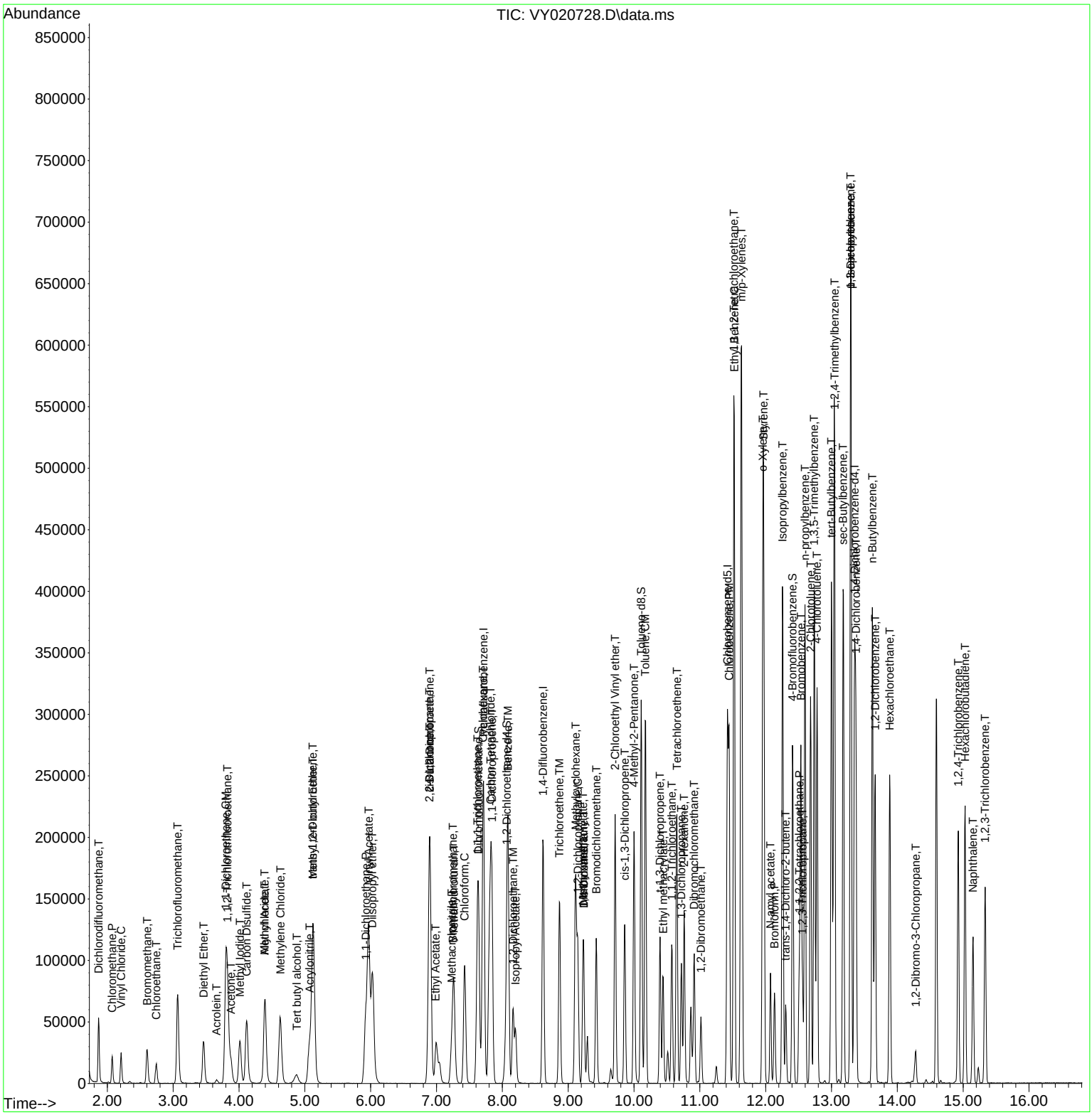
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

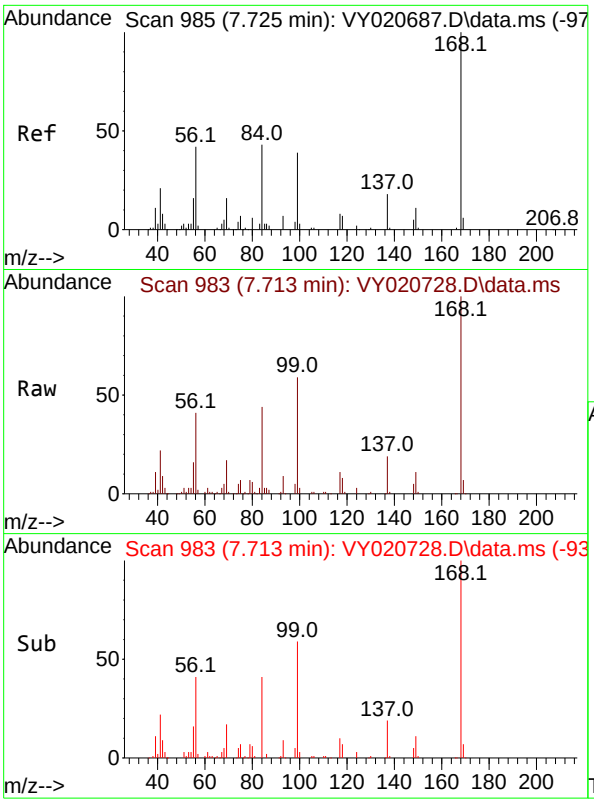
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY122624\
Data File : VY020728.D
Acq On : 26 Dec 2024 19:34
Operator : SY/MD
Sample : VSTDCCC050
Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Dec 27 00:37:28 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y122624S.M
Quant Title : SW846 8260
QLast Update : Thu Dec 26 16:12:28 2024
Response via : Initial Calibration



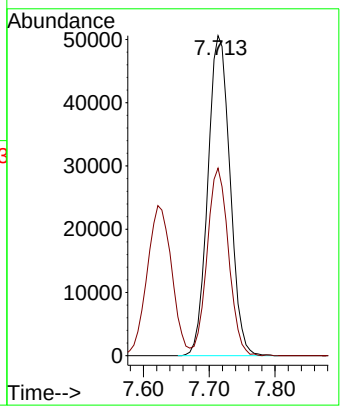


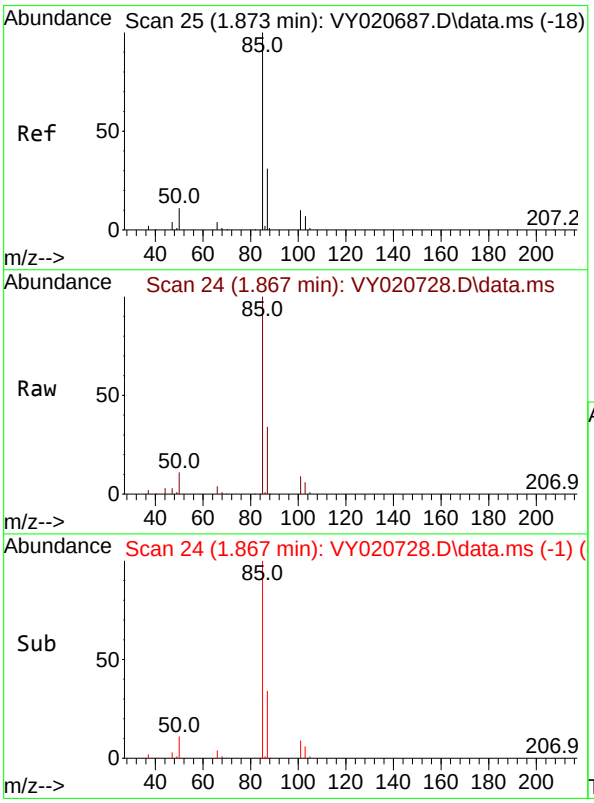

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:168 Resp: 118688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 58.6 | 43.8 | 65.6 |

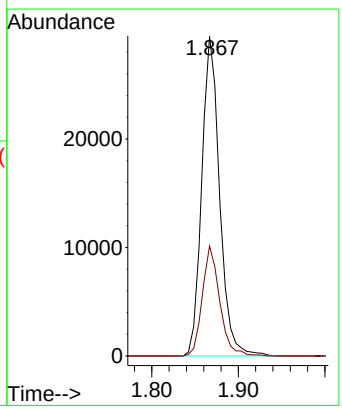


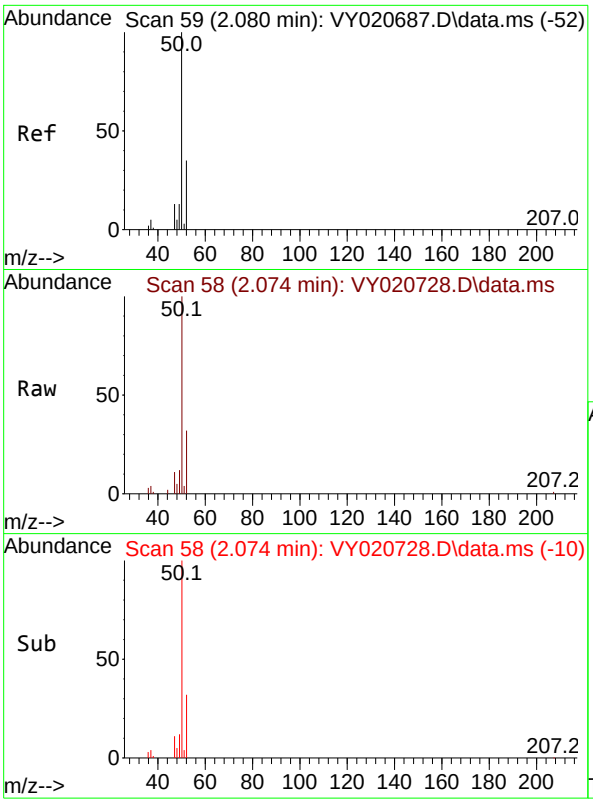




#2
Dichlorodifluoromethane
Concen: 45.114 ug/l
RT: 1.867 min Scan# 24
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 85 Resp: 42146

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 34.4 | 15.4 | 46.4 |



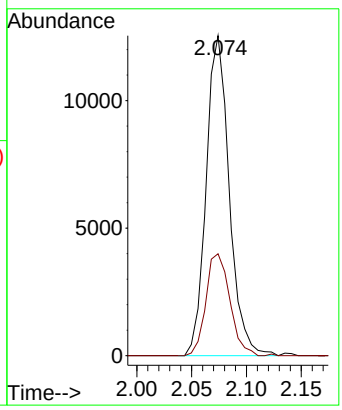


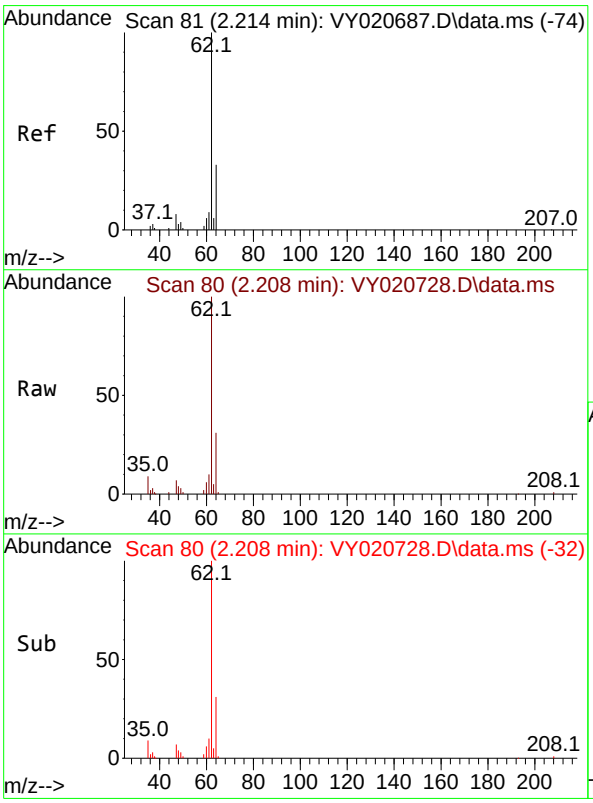

#3
Chloromethane
Concen: 52.737 ug/l
RT: 2.074 min Scan# 5
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 50 Resp: 18374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.9 | 28.2 | 42.2 |

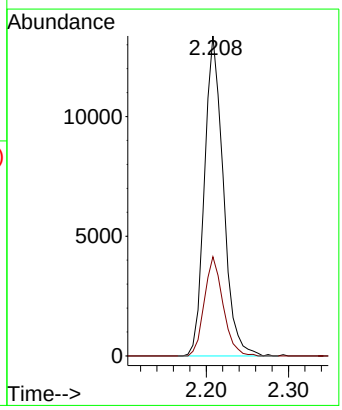


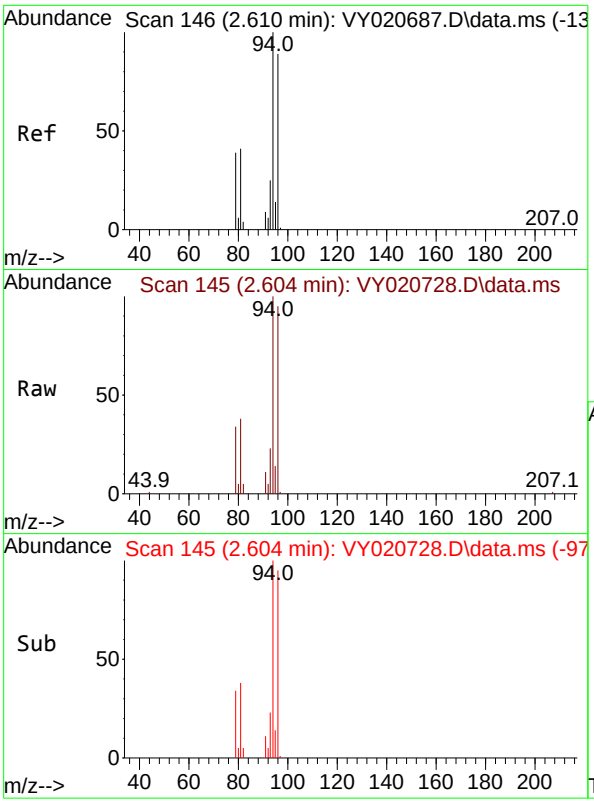




#4
Vinyl Chloride
Concen: 49.224 ug/l
RT: 2.208 min Scan# 80
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 62 Resp: 21249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.0 | 26.6 | 40.0 |



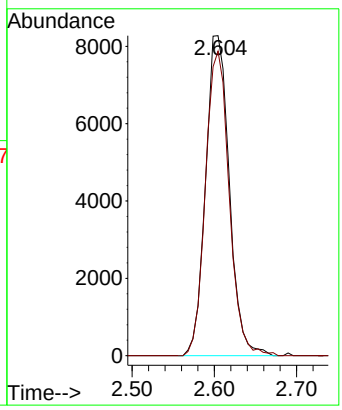


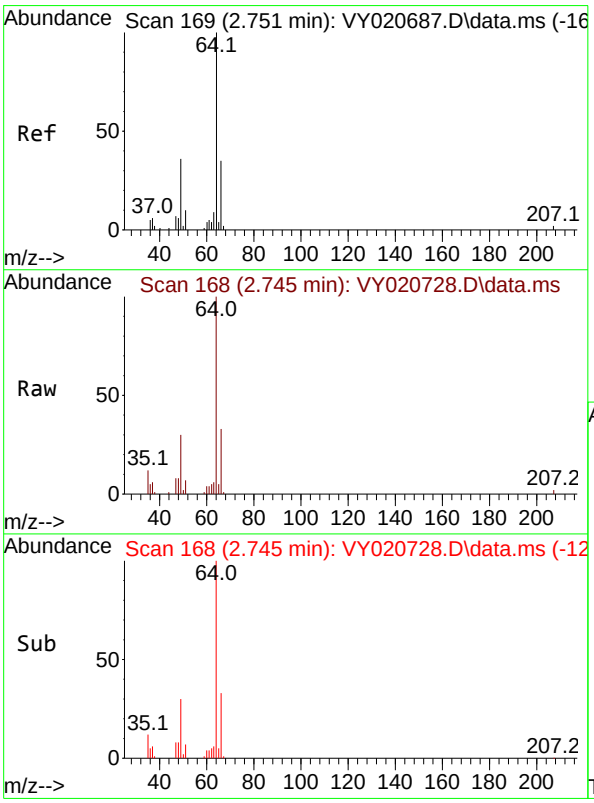

#5
Bromomethane
Concen: 50.944 ug/l
RT: 2.604 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 94 Resp: 16604

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 95.1 | 71.0 | 106.6 |

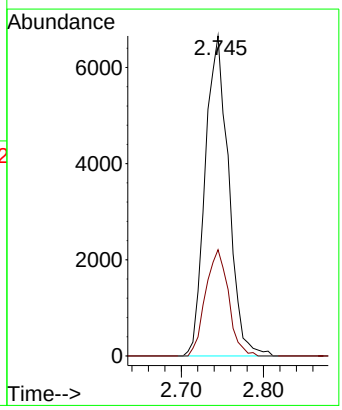


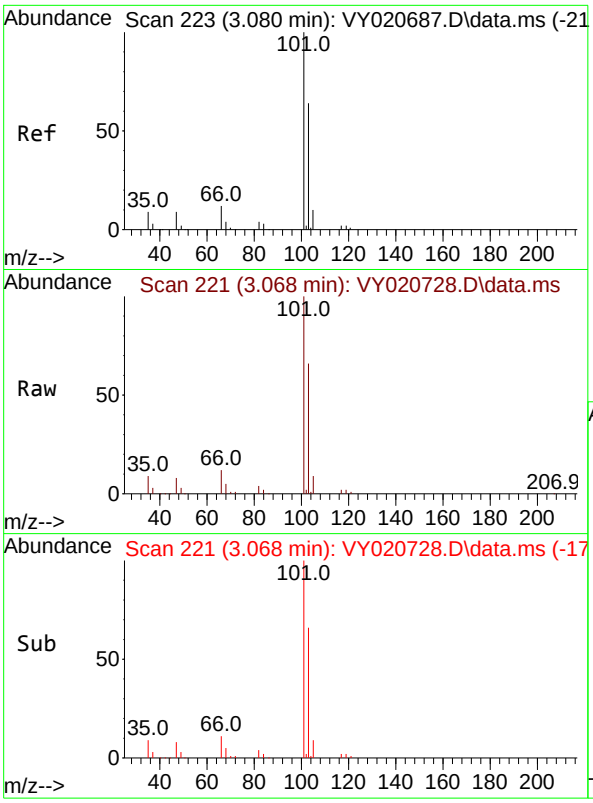




#6
Chloroethane
Concen: 50.896 ug/l
RT: 2.745 min Scan# 168
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 64 Resp: 13180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.2 | 27.8 | 41.8 |



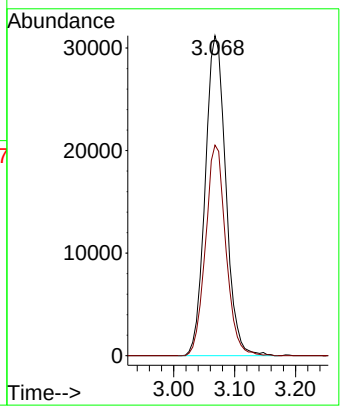


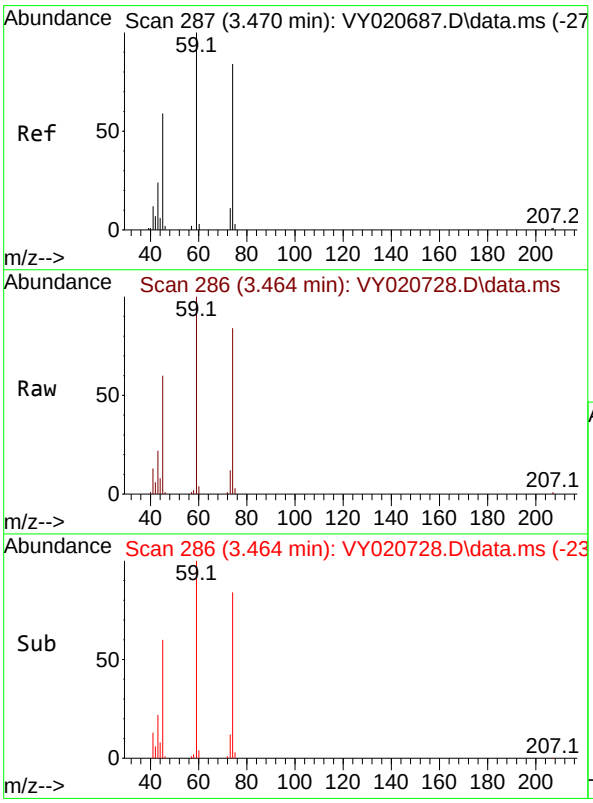

#7
Trichlorofluoromethane
Concen: 44.000 ug/l
RT: 3.068 min Scan# 2
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 73042

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.8 | 51.4 | 77.0 |

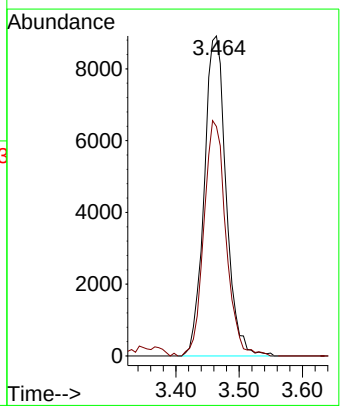


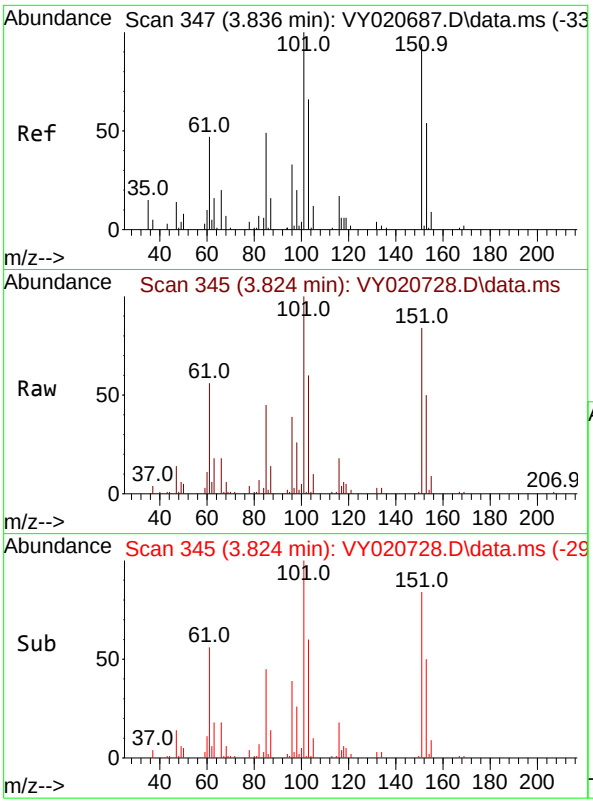




#8
Diethyl Ether
Concen: 54.301 ug/l
RT: 3.464 min Scan# 286
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 74 Resp: 21450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 74.1 | 35.8 | 107.4 |



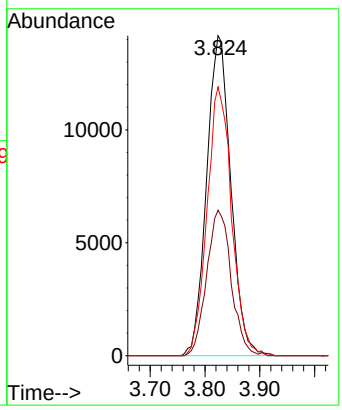


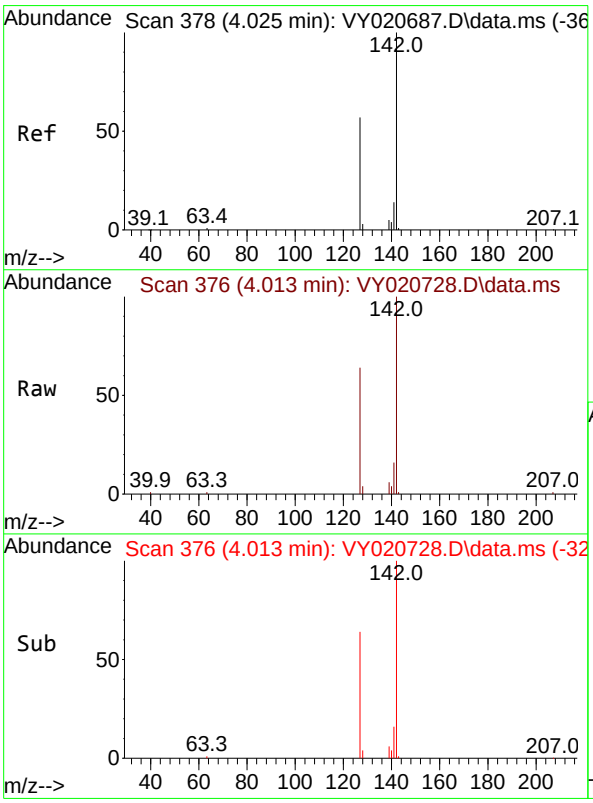

#9
1,1,2-Trichlorotrifluoroethane
Concen: 47.637 ug/l
RT: 3.824 min Scan# 34
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 43414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 46.1 | 38.2 | 57.2 |
| 151 | 85.1 | 68.4 | 102.6 |

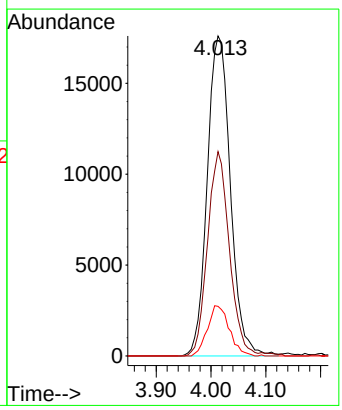


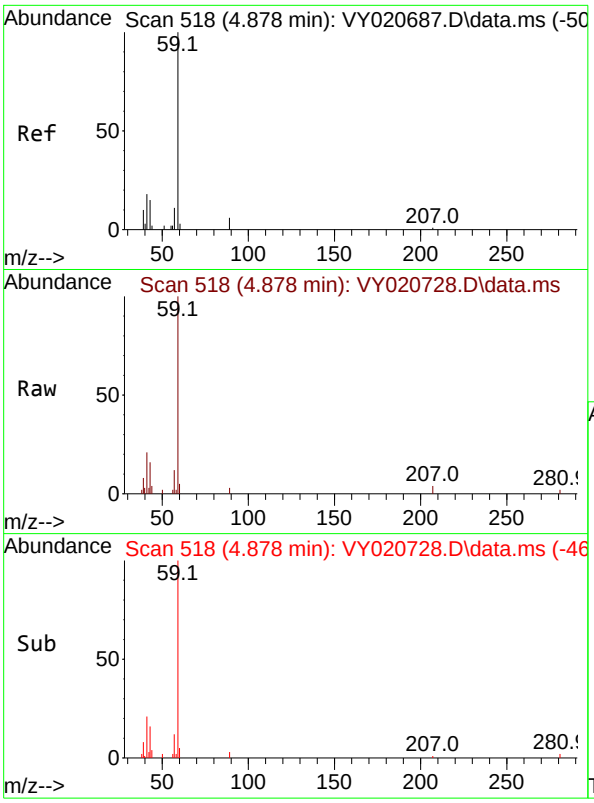




#10
Methyl Iodide
Concen: 51.852 ug/l
RT: 4.013 min Scan# 376
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:142 Resp: 51674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 60.7 | 48.8 | 73.2 |
| 141 | 14.8 | 11.9 | 17.9 |



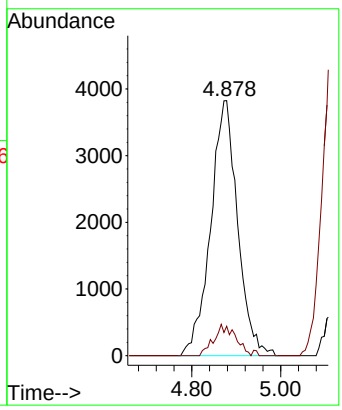


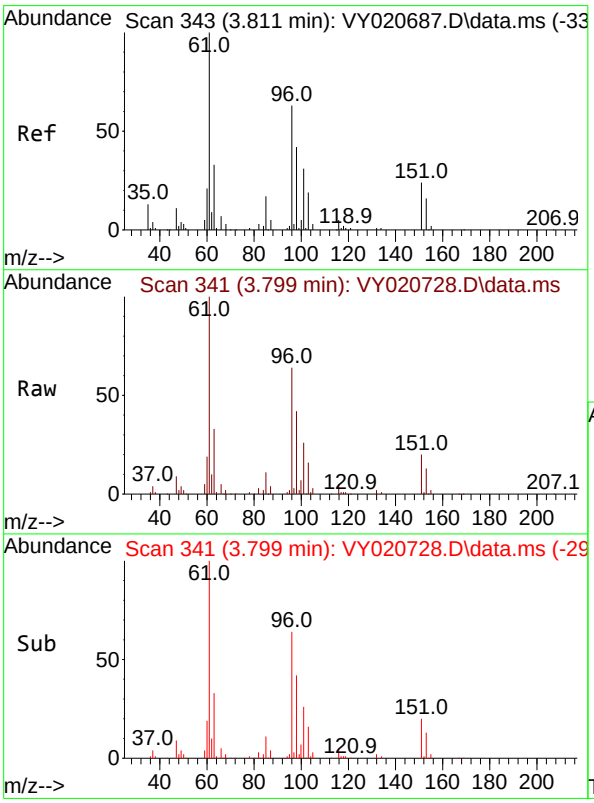

#11
Tert butyl alcohol
Concen: 266.739 ug/l
RT: 4.878 min Scan# 5
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 59 Resp: 16118

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.7 | 2.8 | 4.2# |

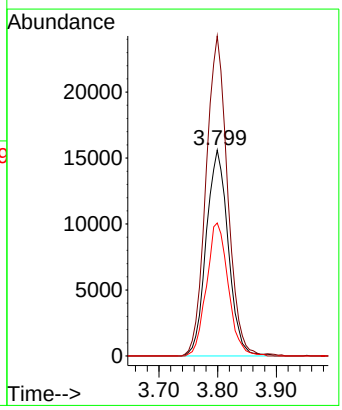


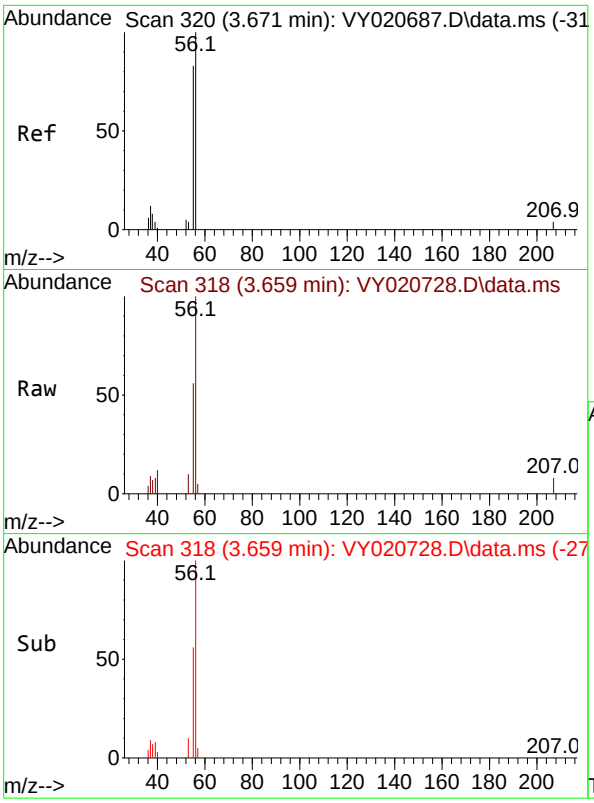




#12
1,1-Dichloroethene
Concen: 50.083 ug/l
RT: 3.799 min Scan# 341
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 96 Resp: 40626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 155.5 | 127.1 | 190.7 |
| 98 | 64.6 | 53.4 | 80.0 |



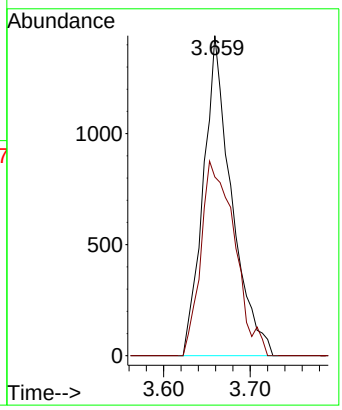


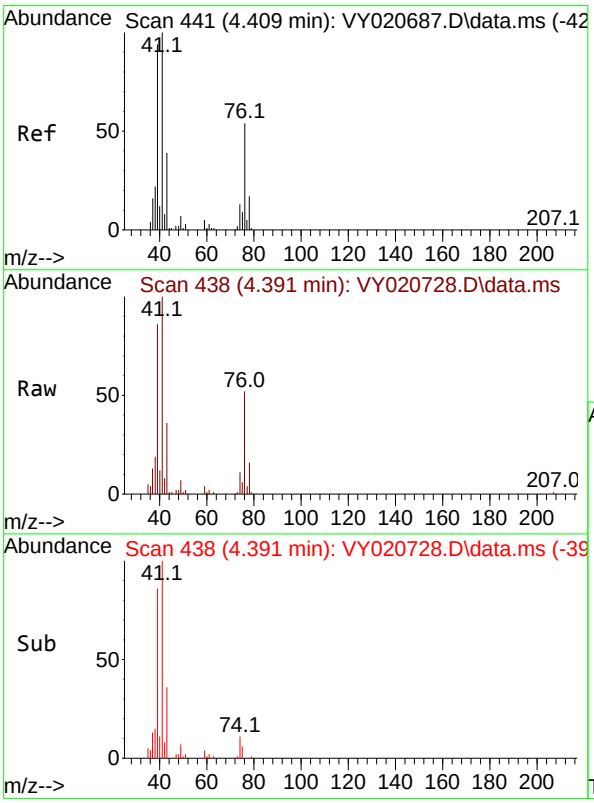

#13
Acrolein
Concen: 160.414 ug/l
RT: 3.659 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 3260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.7 | 57.0 | 85.4 |

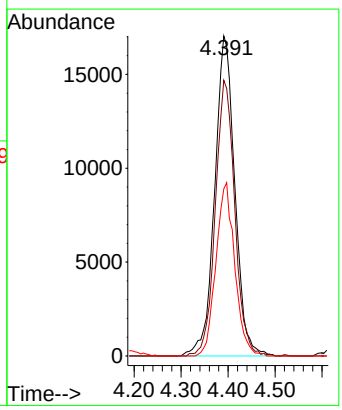


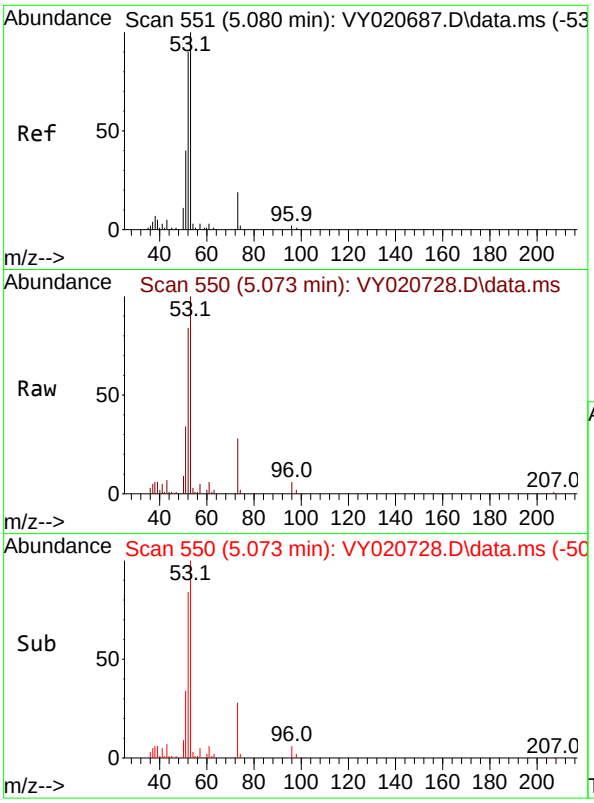




#14
Allyl chloride
Concen: 53.553 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.018 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 41 Resp: 50835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 83.2 | 73.5 | 110.3 |
| 76 | 50.6 | 41.8 | 62.8 |



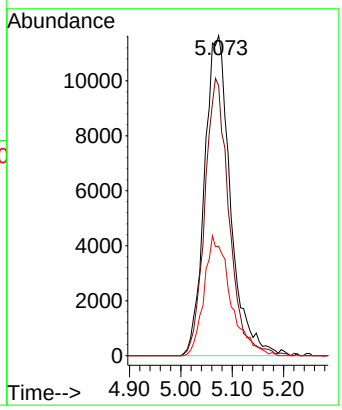


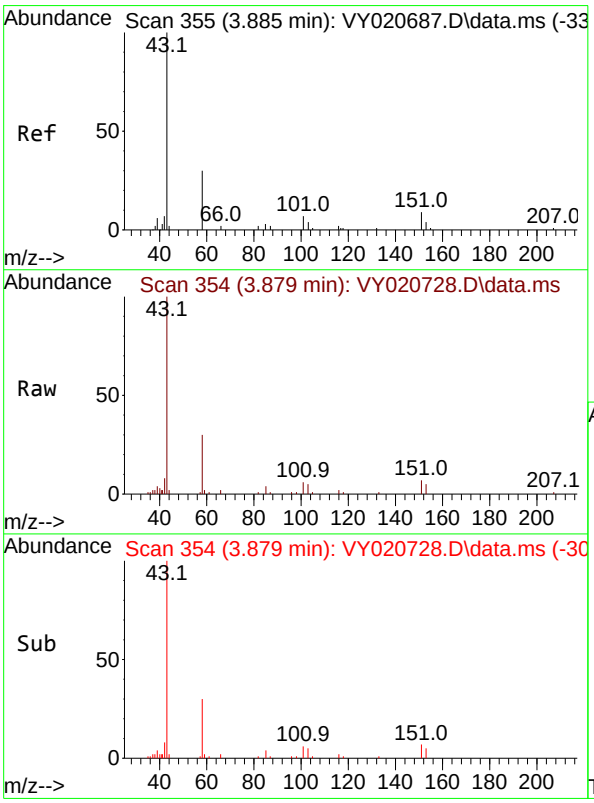

#15
Acrylonitrile
Concen: 267.470 ug/l
RT: 5.073 min Scan# 5
Delta R.T. -0.007 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 53 Resp: 40816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 81.0 | 67.1 | 100.7 |
| 51 | 38.4 | 31.4 | 47.0 |

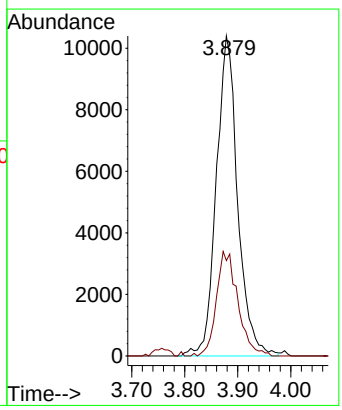


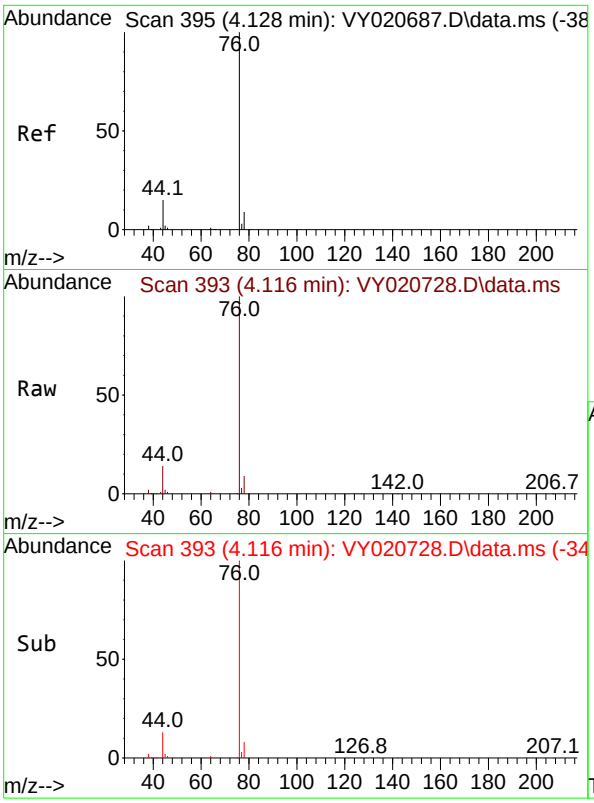




#16
Acetone
Concen: 236.085 ug/l
RT: 3.879 min Scan# 354
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 29116

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.8 | 25.0 | 37.6 |



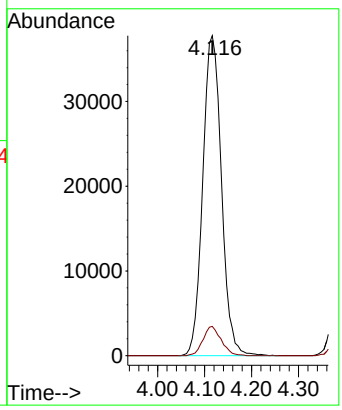


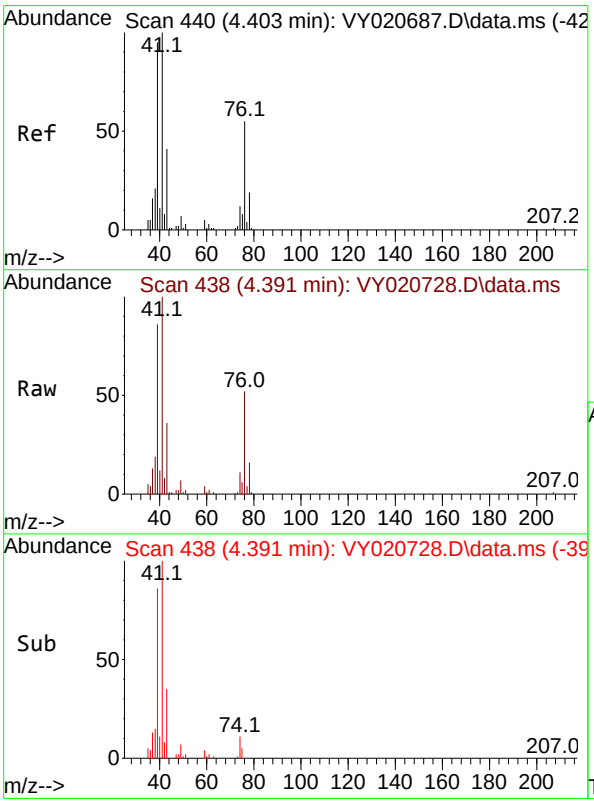

#17
Carbon Disulfide
Concen: 52.366 ug/l
RT: 4.116 min Scan# 3
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 104201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 6.9 | 10.3 |

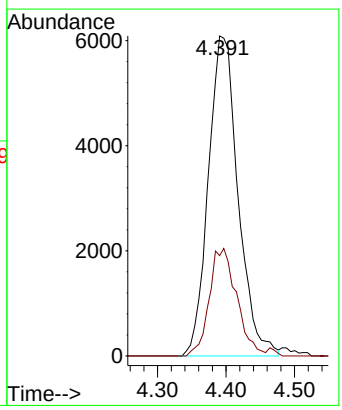


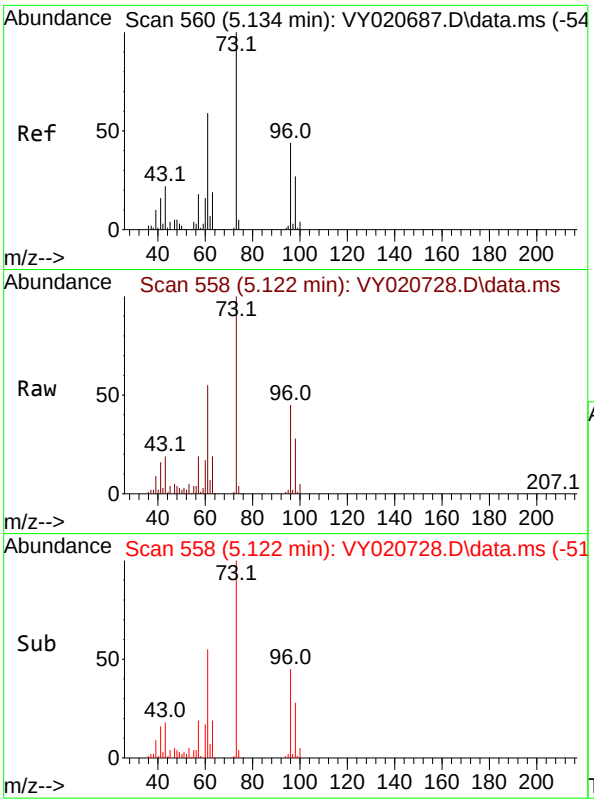




#18
Methyl Acetate
Concen: 54.975 ug/l
RT: 4.391 min Scan# 438
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 18350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 31.0 | 25.3 | 37.9 |



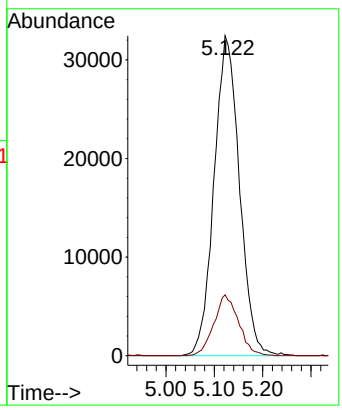


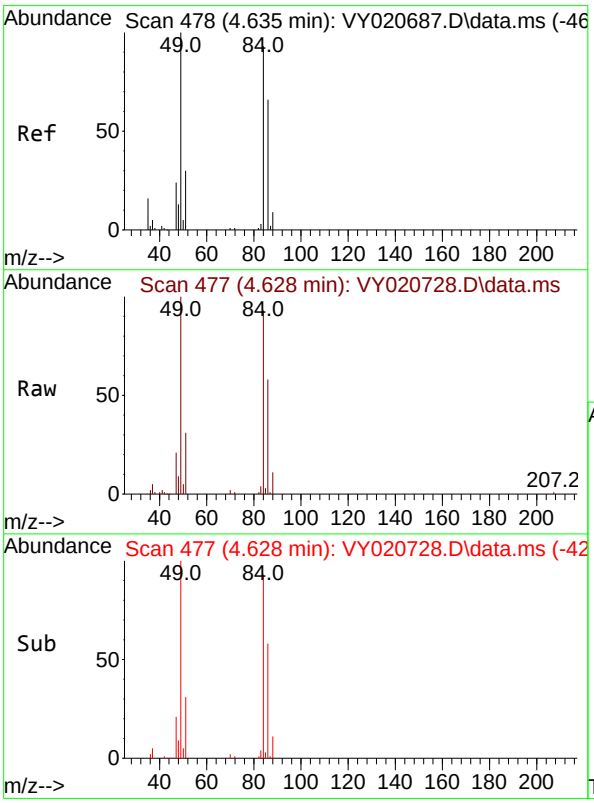

#19
Methyl tert-butyl Ether
Concen: 52.242 ug/l
RT: 5.122 min Scan# 5
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 73 Resp: 118115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 19.0 | 14.4 | 21.6 |

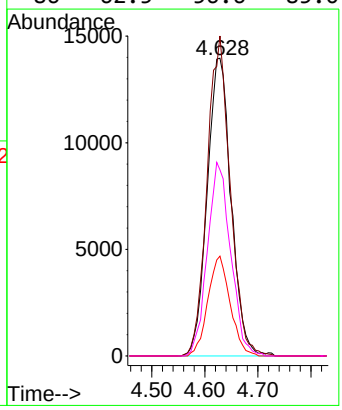


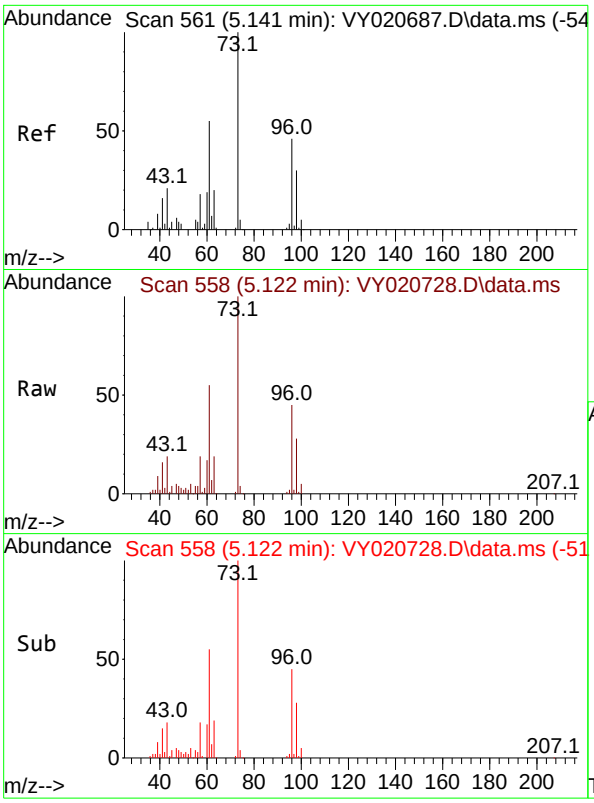




#20
Methylene Chloride
Concen: 54.496 ug/l
RT: 4.628 min Scan# 477
Delta R.T. -0.007 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 84 Resp: 43712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 107.5 | 86.4 | 129.6 |
| 51 | 33.5 | 25.5 | 38.3 |
| 86 | 62.5 | 56.6 | 85.0 |



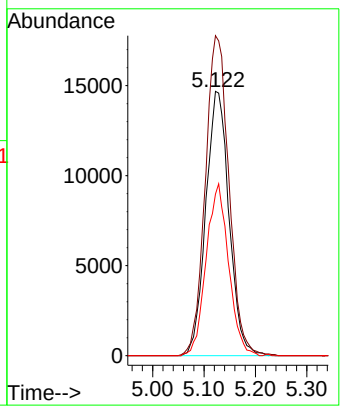


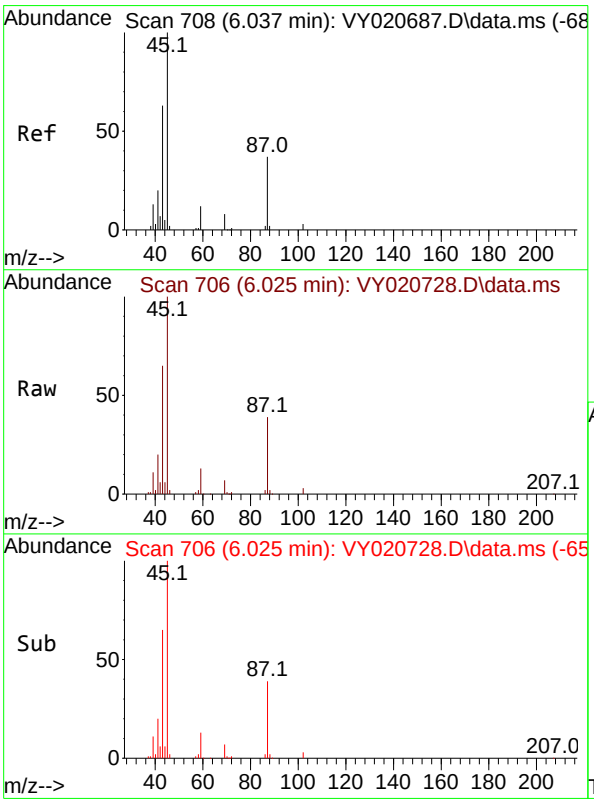

#21
trans-1,2-Dichloroethene
Concen: 52.798 ug/l
RT: 5.122 min Scan# 5
Delta R.T. -0.019 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 46151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 121.1 | 96.1 | 144.1 |
| 98 | 61.1 | 52.7 | 79.1 |

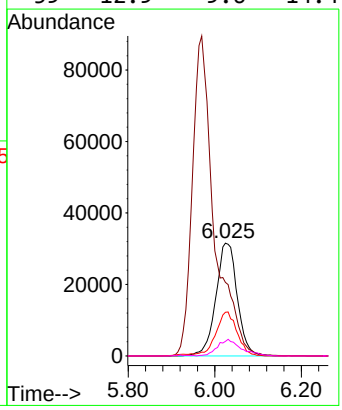


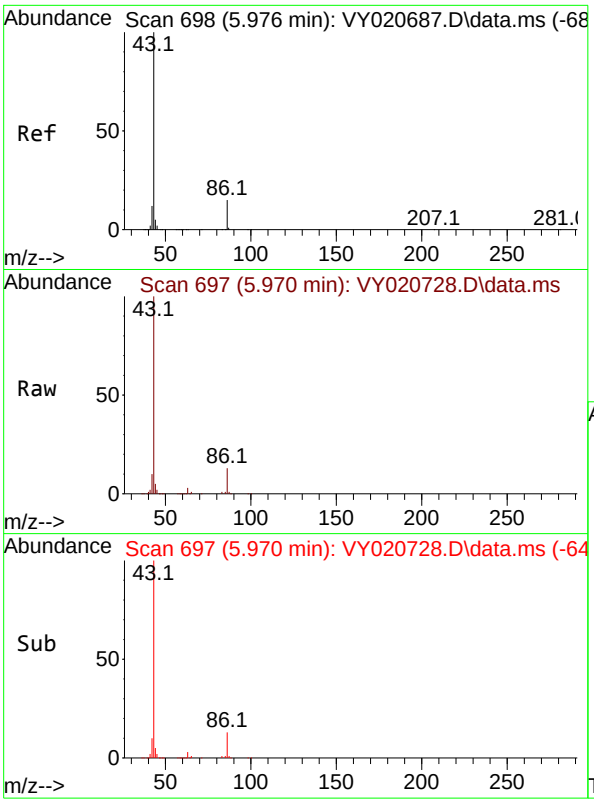




#22
Diisopropyl ether
Concen: 56.213 ug/l
RT: 6.025 min Scan# 706
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 45 Resp: 108472

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 64.9 | 51.3 | 76.9 |
| 87 | 38.7 | 30.6 | 46.0 |
| 59 | 12.9 | 9.6 | 14.4 |



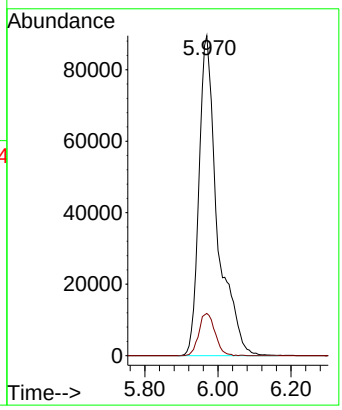


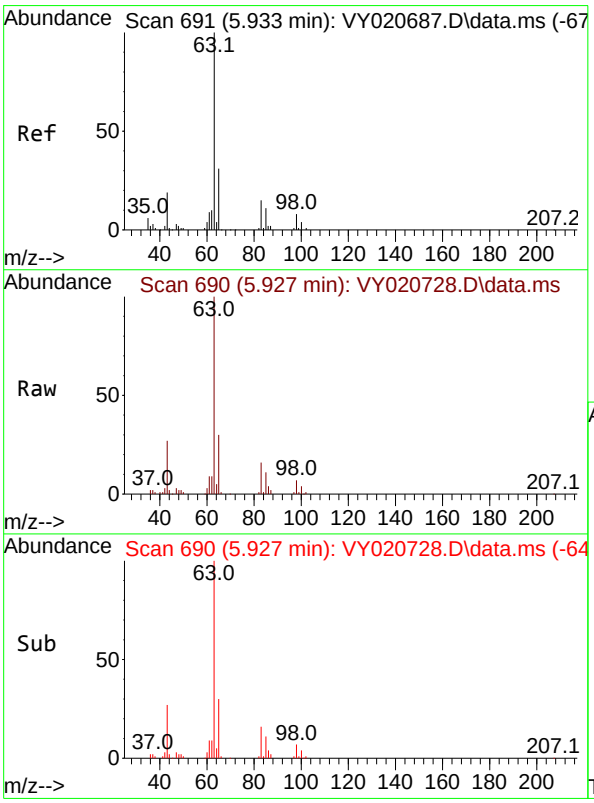

#23
Vinyl Acetate
Concen: 272.779 ug/l
RT: 5.970 min Scan# 6
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 314401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 13.2 | 12.0 | 18.0 |

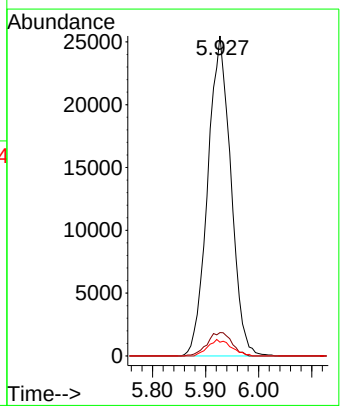


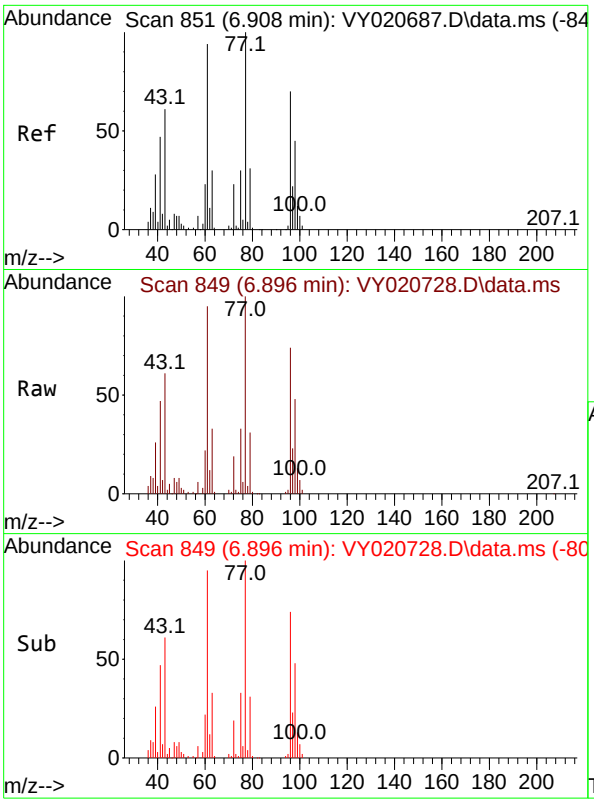




#24
1,1-Dichloroethane
Concen: 53.204 ug/l
RT: 5.927 min Scan# 690
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 63 Resp: 76973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.3 | 4.0 | 12.0 |
| 100 | 4.3 | 2.1 | 6.2 |



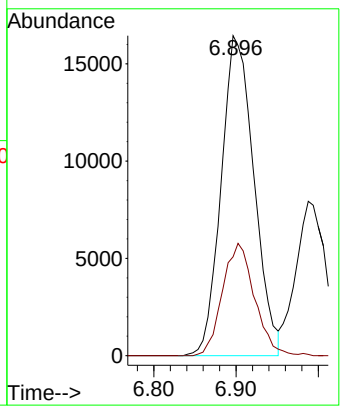


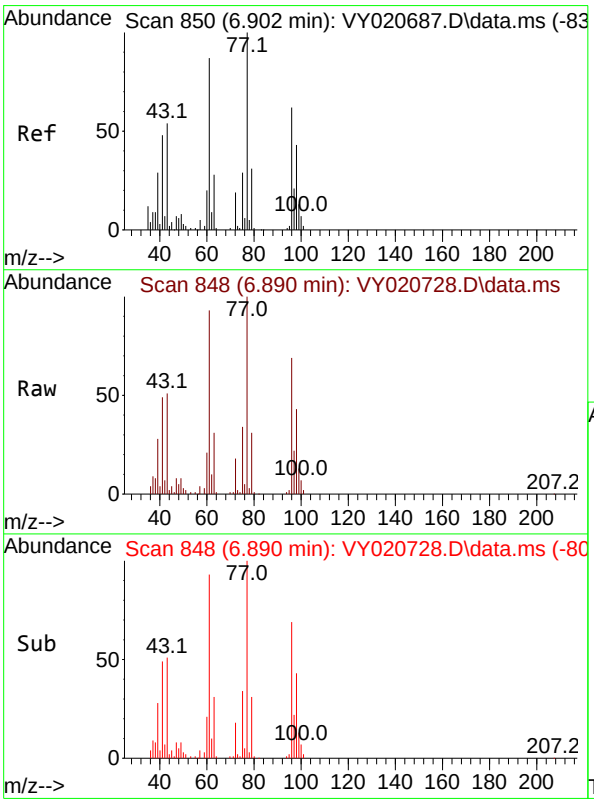

#25
2-Butanone
Concen: 274.081 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 45661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.9 | 29.5 | 44.3 |

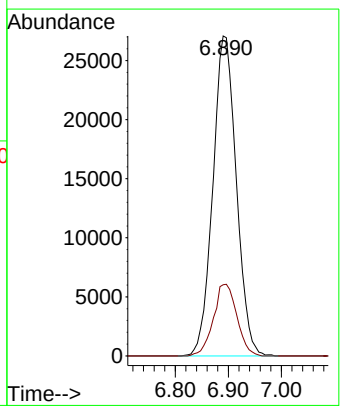


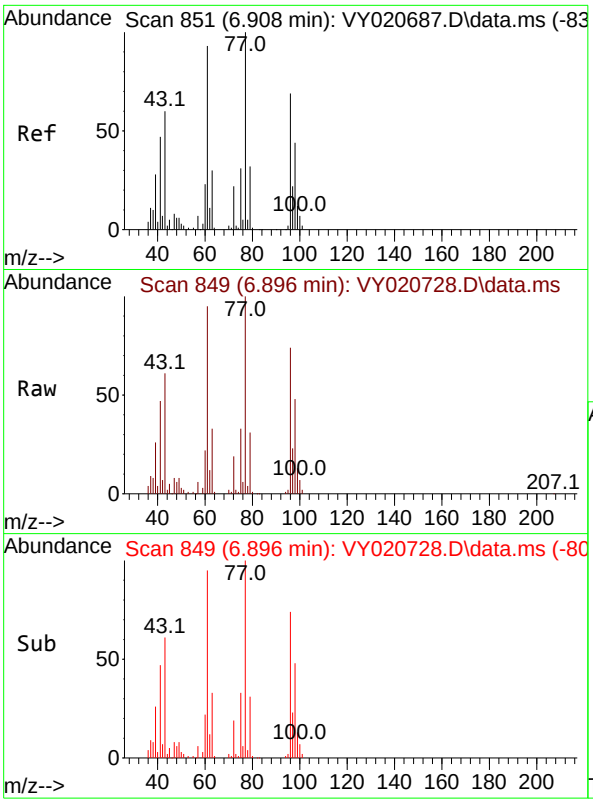




#26
2,2-Dichloropropane
Concen: 47.004 ug/l
RT: 6.890 min Scan# 848
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 77 Resp: 83233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.4 | 10.8 | 32.4 |



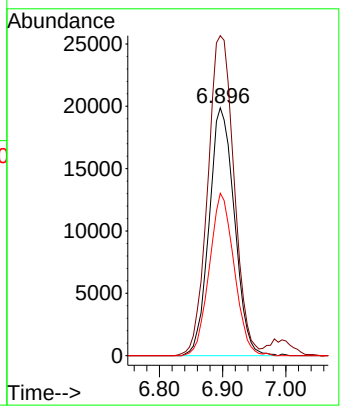


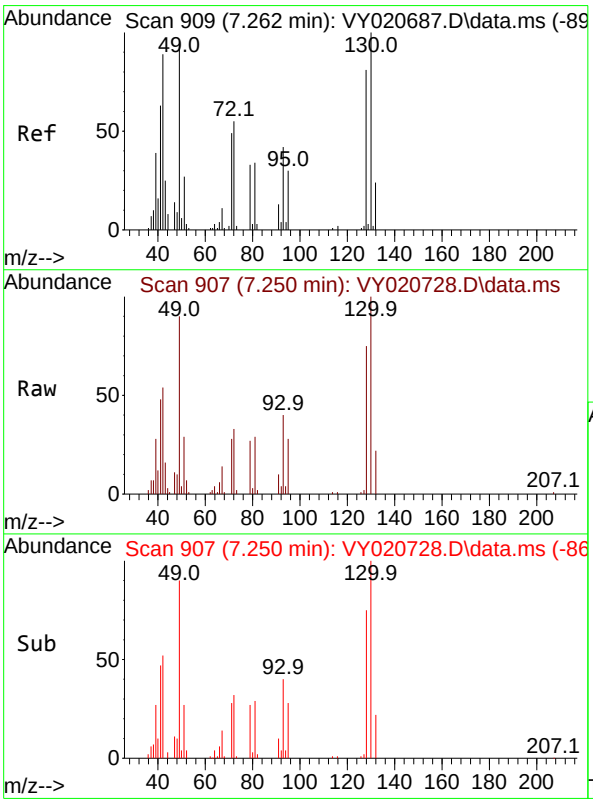

#27
cis-1,2-Dichloroethene
Concen: 52.764 ug/l
RT: 6.896 min Scan# 84
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 55233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 134.1 | 0.0 | 277.2 |
| 98 | 64.2 | 0.0 | 131.0 |

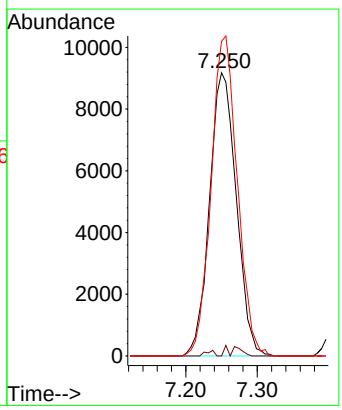


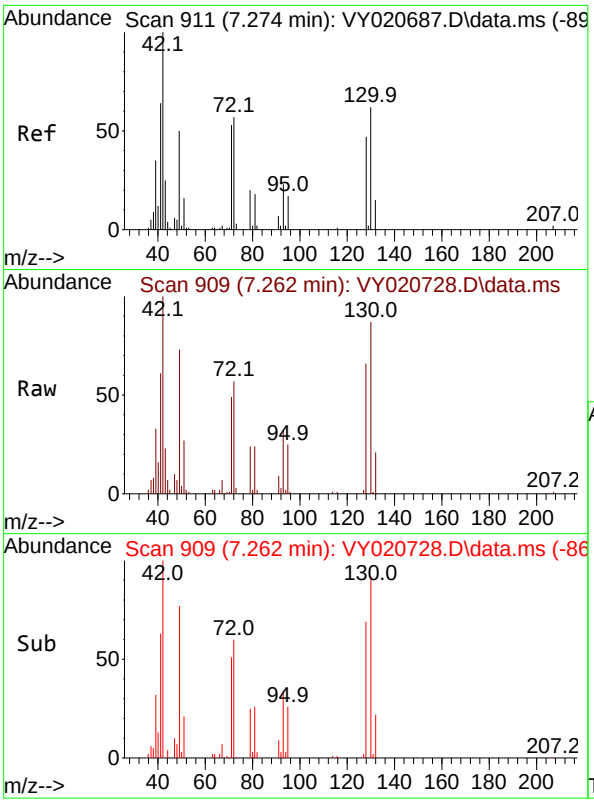




#28
Bromochloromethane
Concen: 62.291 ug/l
RT: 7.250 min Scan# 907
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 49 Resp: 23832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.5 | 0.0 | 5.4 |
| 130 | 110.7 | 87.2 | 130.8 |



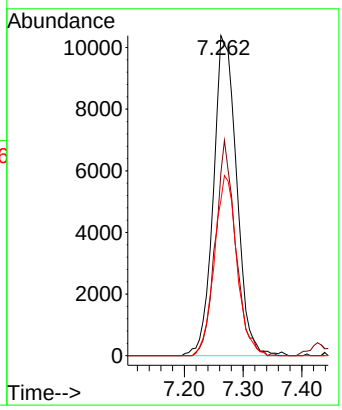


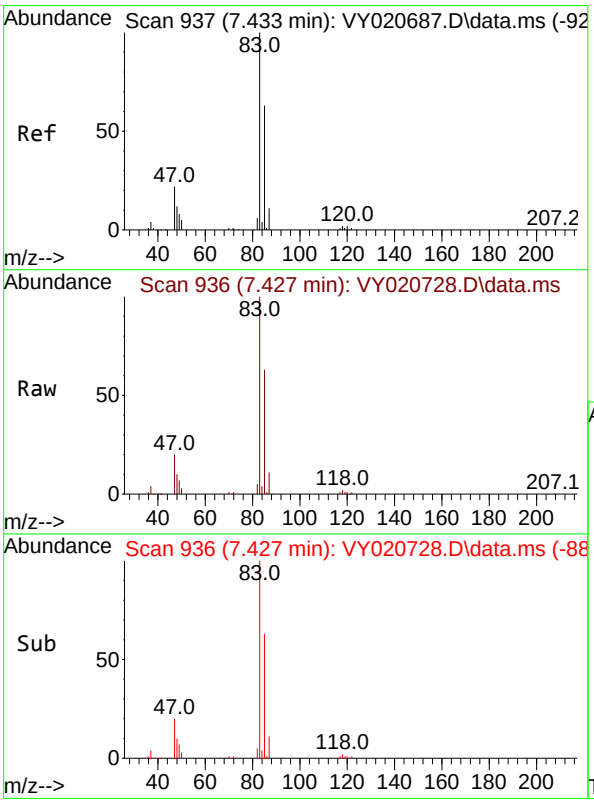

#29
Tetrahydrofuran
Concen: 278.632 ug/l
RT: 7.262 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 42 Resp: 28493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 59.0 | 47.4 | 71.0 |
| 71 | 54.7 | 42.8 | 64.2 |

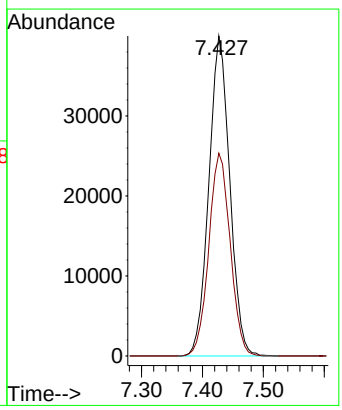


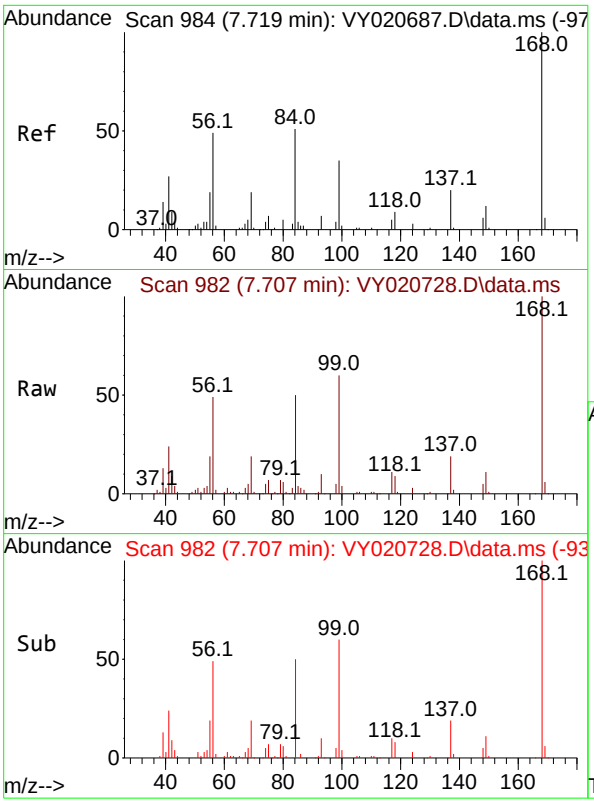




#30
Chloroform
Concen: 51.215 ug/l
RT: 7.427 min Scan# 936
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 83 Resp: 95317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 50.2 | 75.2 |



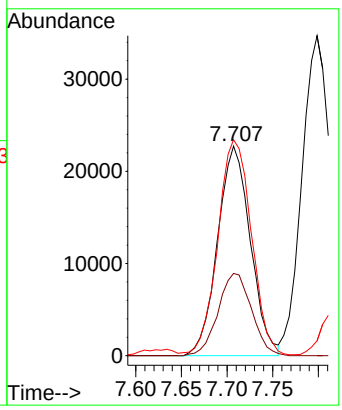


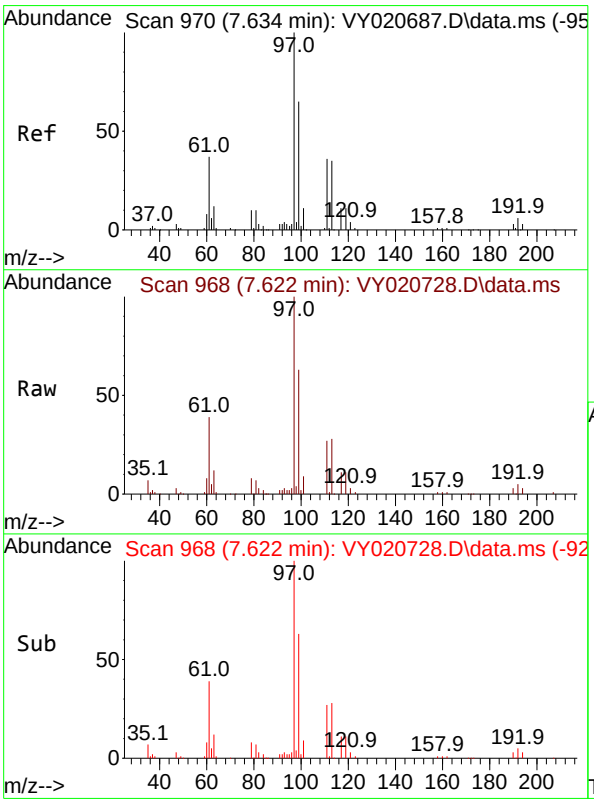

#31
Cyclohexane
Concen: 45.467 ug/l
RT: 7.707 min Scan# 9
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 56780

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 39.2 | 31.3 | 46.9 |
| 84 | 101.8 | 83.9 | 125.9 |

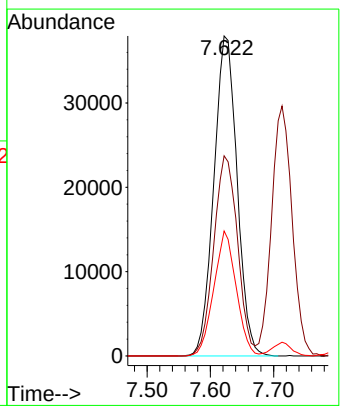


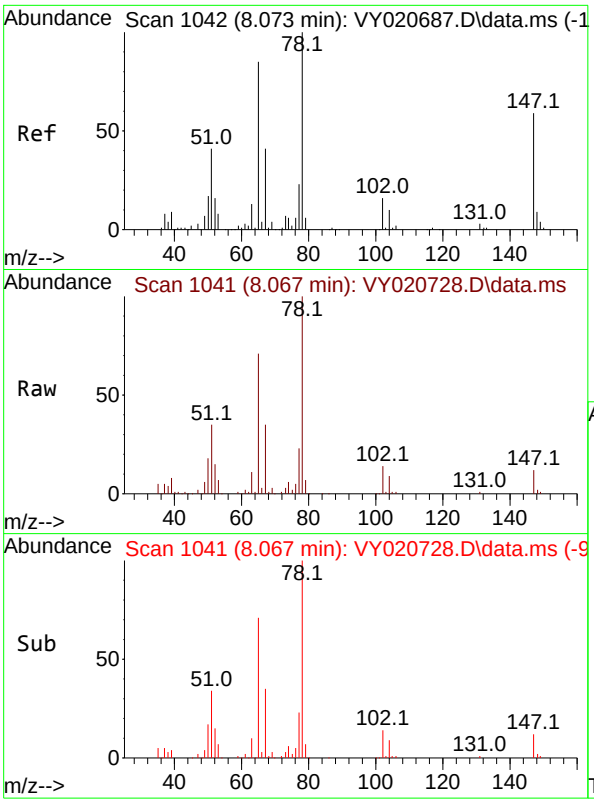




#32
1,1,1-Trichloroethane
Concen: 48.508 ug/l
RT: 7.622 min Scan# 968
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 97 Resp: 96771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.0 | 76.6 |
| 61 | 37.6 | 30.0 | 45.0 |



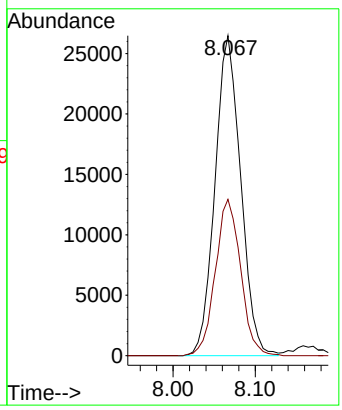


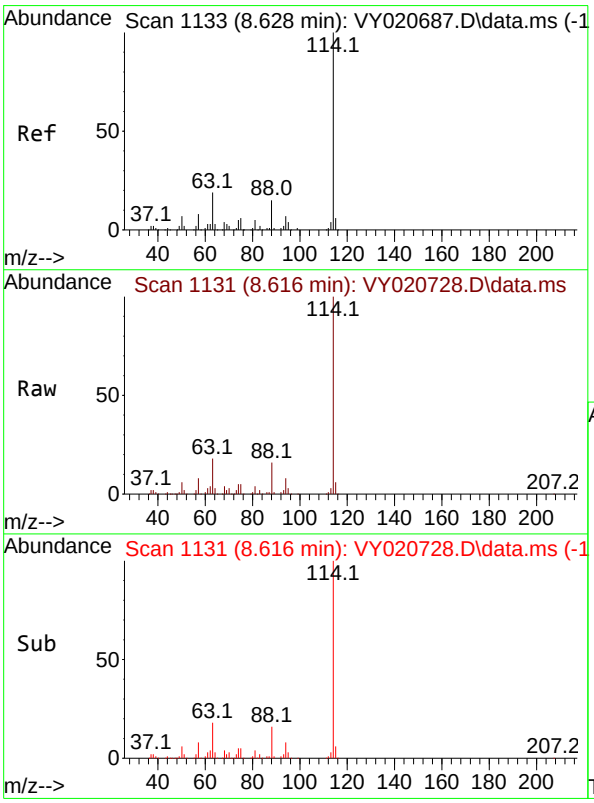

#33
1,2-Dichloroethane-d4
Concen: 59.186 ug/l
RT: 8.067 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 65 Resp: 57538

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 48.0 | 0.0 | 98.0 |

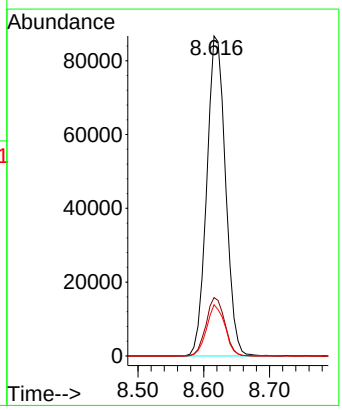


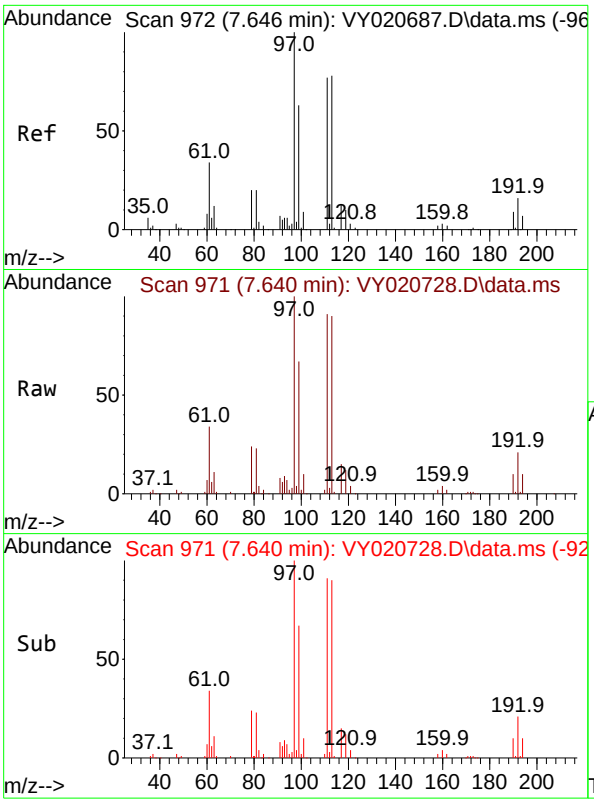




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:114 Resp: 172132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 18.3 | 0.0 | 38.4 |
| 88 | 16.0 | 0.0 | 30.4 |



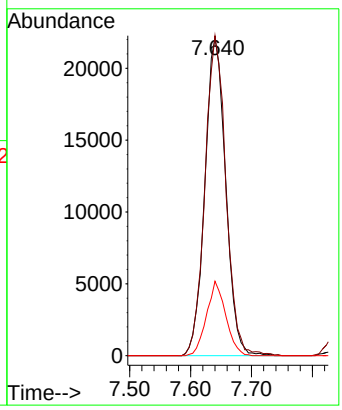


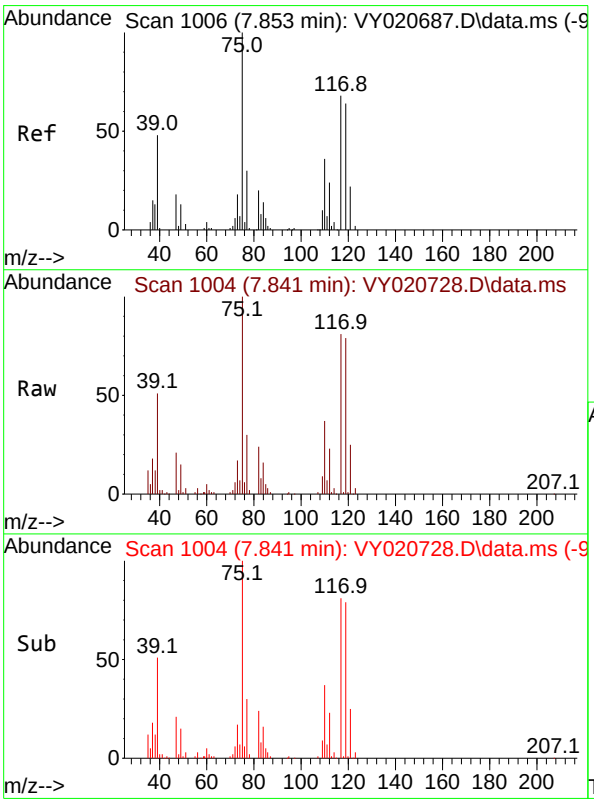

#35
Dibromofluoromethane
Concen: 55.390 ug/l
RT: 7.640 min Scan# 9
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:113 Resp: 52517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.6 | 79.8 | 119.8 |
| 192 | 21.6 | 17.0 | 25.6 |

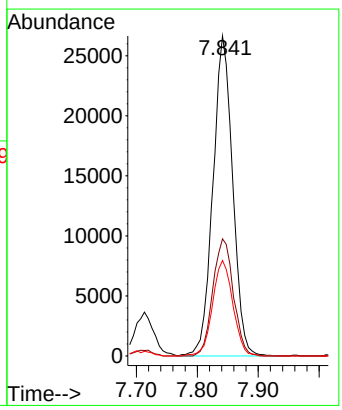


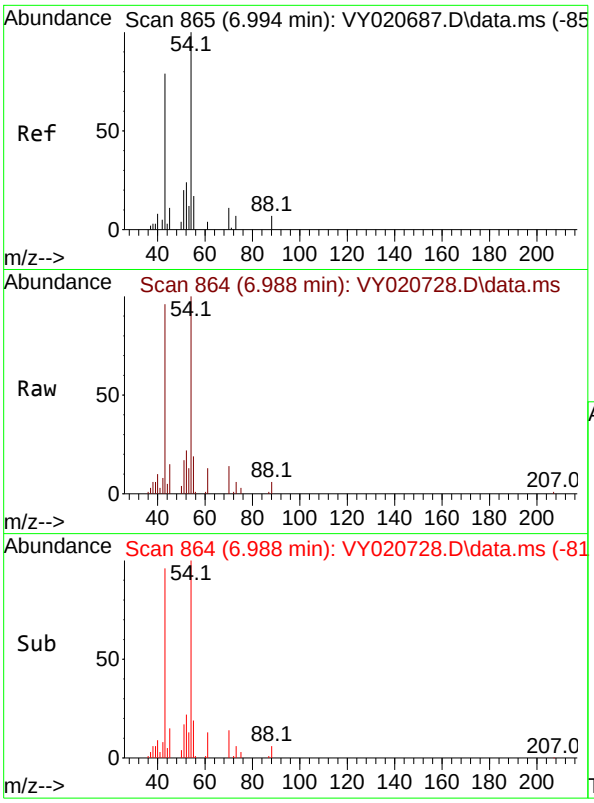




#36
1,1-Dichloropropene
Concen: 47.847 ug/l
RT: 7.841 min Scan# 1004
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 75 Resp: 59925

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 38.0 | 19.6 | 58.7 |
| 77 | 30.7 | 25.1 | 37.7 |



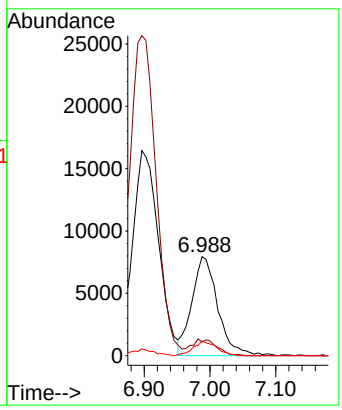


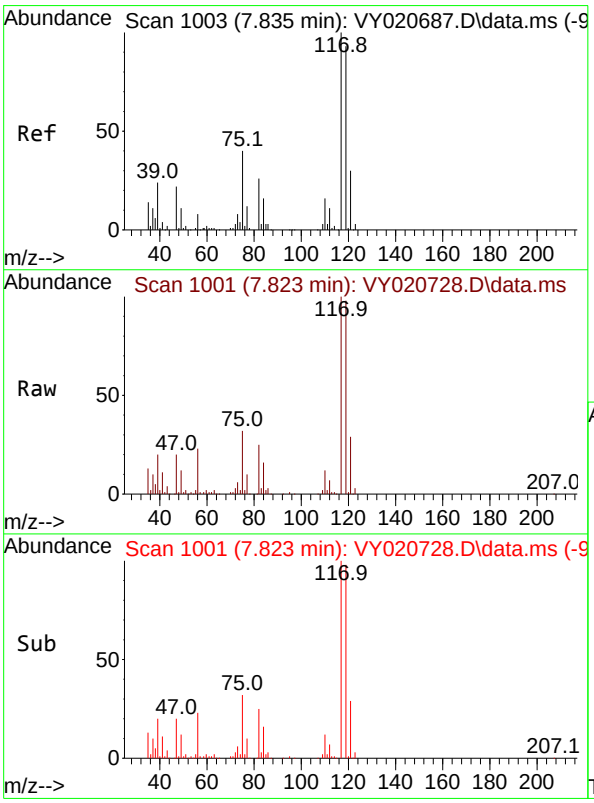

#37
Ethyl Acetate
Concen: 52.779 ug/l
RT: 6.988 min Scan# 8
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 21782

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.4 | 11.7 | 17.5 |
| 70 | 13.1 | 11.0 | 16.4 |

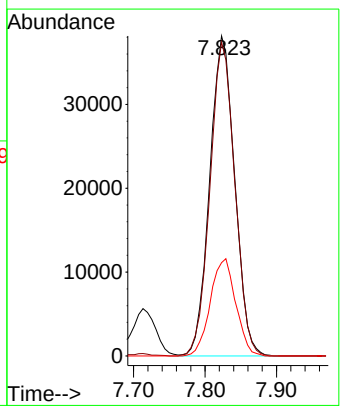


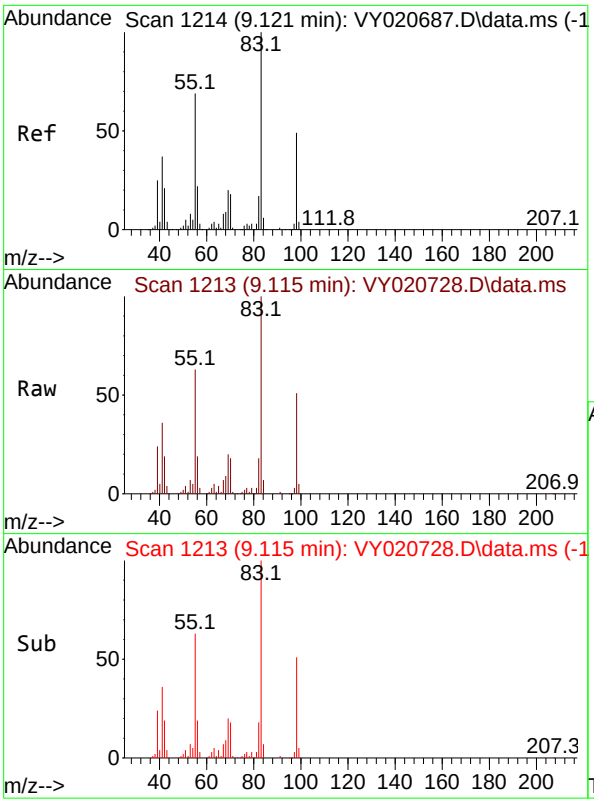




#38
Carbon Tetrachloride
Concen: 44.945 ug/l
RT: 7.823 min Scan# 1001
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:117 Resp: 92693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 98.1 | 74.4 | 111.6 |
| 121 | 29.1 | 24.2 | 36.2 |



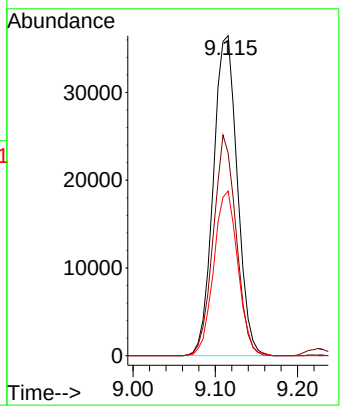


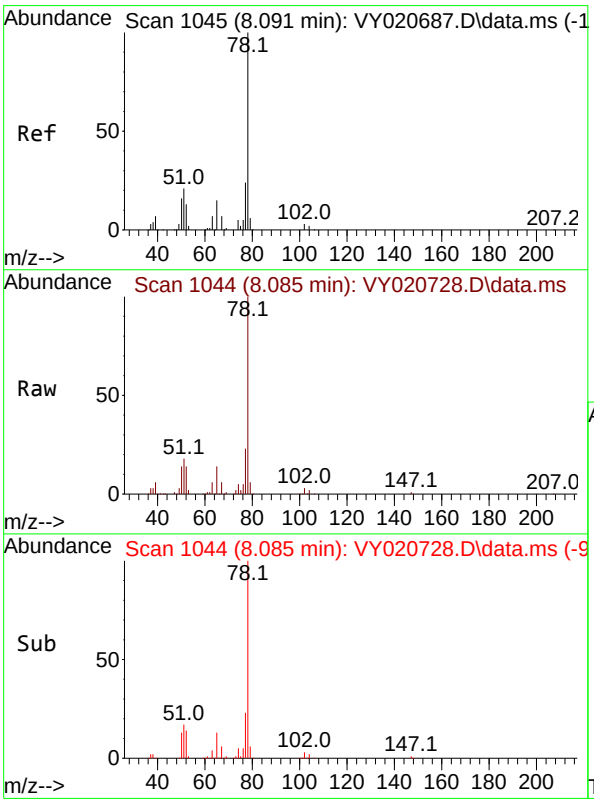

#39
Methylcyclohexane
Concen: 46.082 ug/l
RT: 9.115 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 73974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 63.3 | 55.0 | 82.4 |
| 98 | 51.4 | 39.0 | 58.6 |

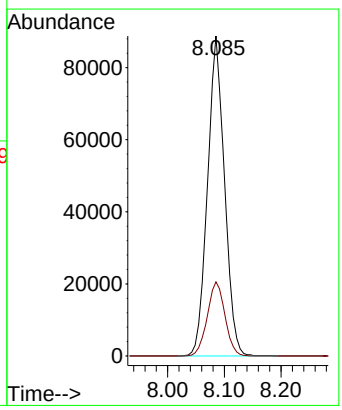


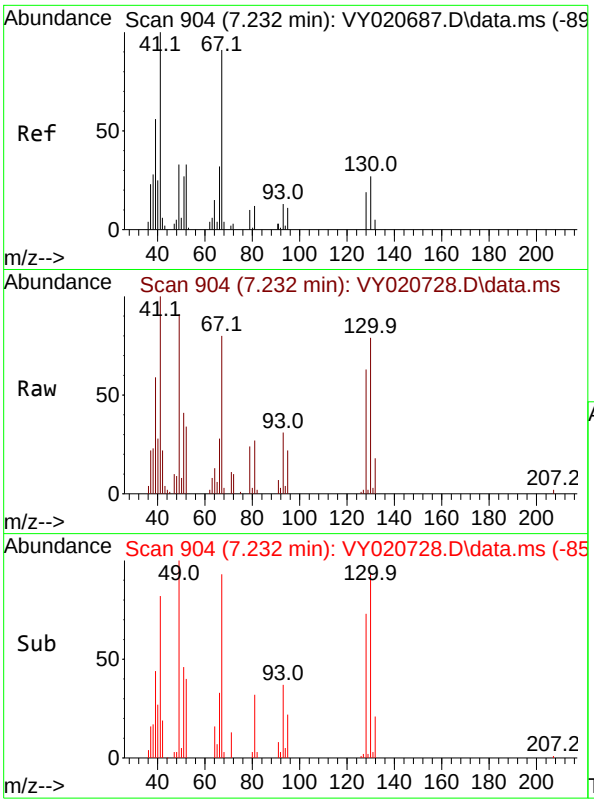




#40
Benzene
Concen: 50.952 ug/l
RT: 8.085 min Scan# 1044
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 78 Resp: 184941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 19.2 | 28.8 |



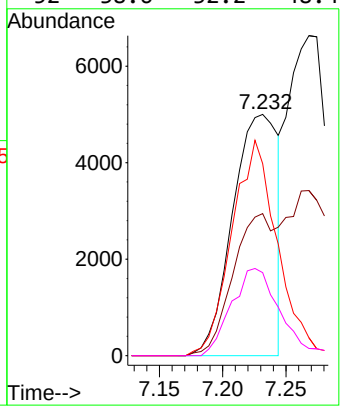


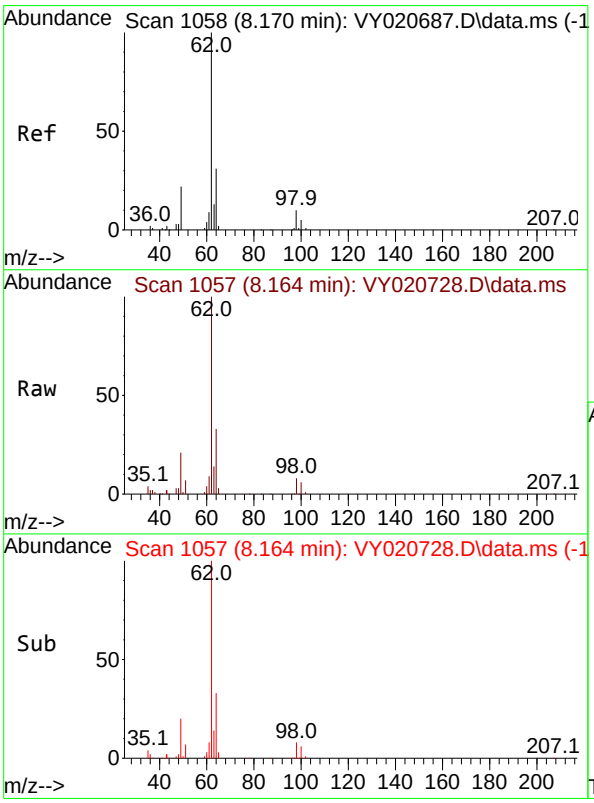

#41
Methacrylonitrile
Concen: 59.754 ug/l
RT: 7.232 min Scan# 9
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 41 Resp: 12457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 49.4 | 46.6 | 70.0 |
| 67 | 90.0 | 74.7 | 112.1 |
| 52 | 38.6 | 32.2 | 48.4 |

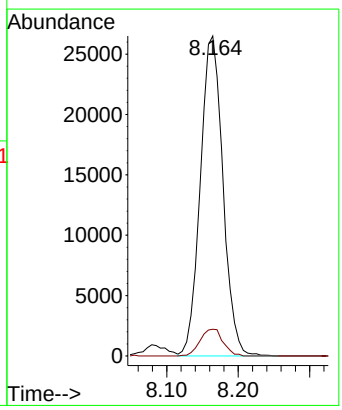


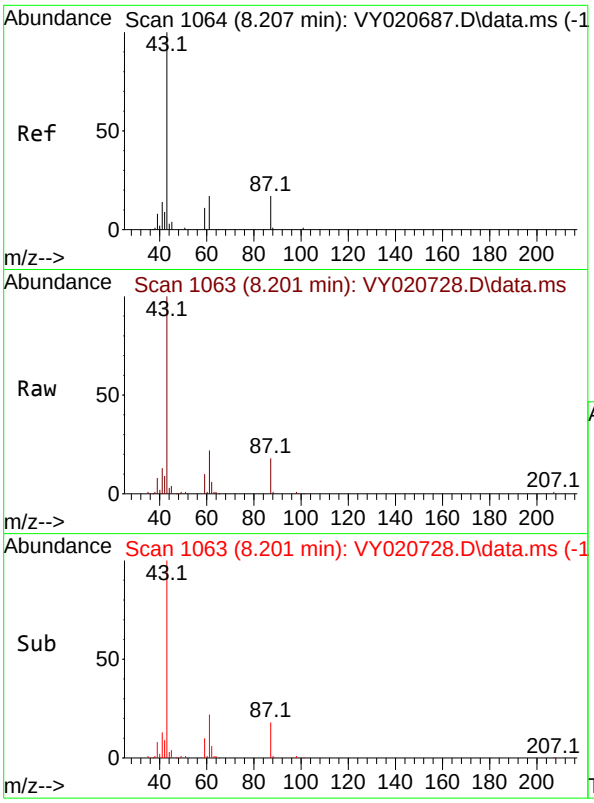




#42
1,2-Dichloroethane
Concen: 49.961 ug/l
RT: 8.164 min Scan# 1057
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 62 Resp: 58148

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 8.5 | 0.0 | 16.6 |



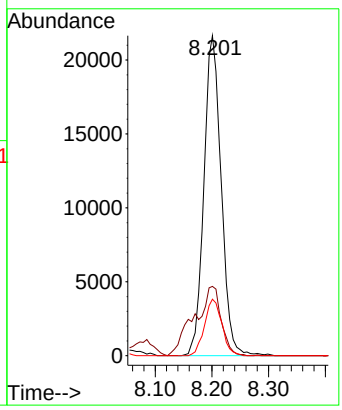


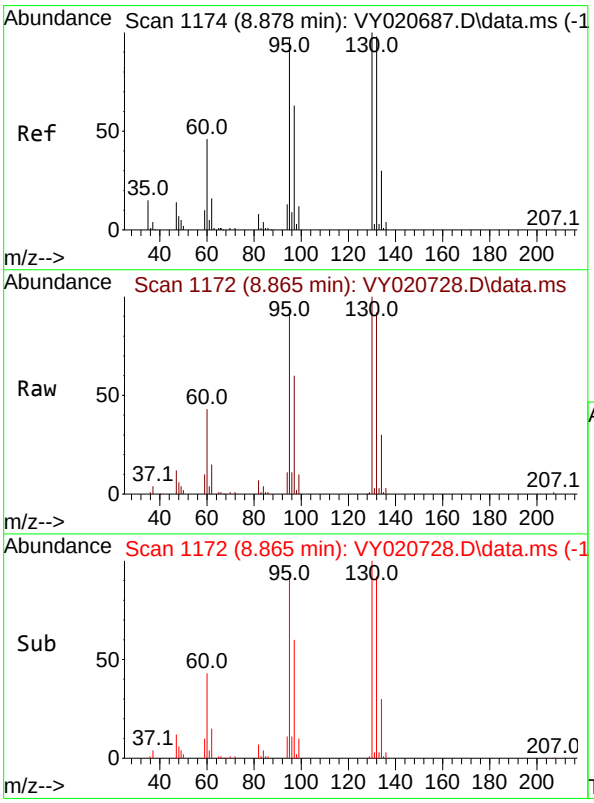

#43
Isopropyl Acetate
Concen: 52.327 ug/l
RT: 8.201 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 45902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 33.6 | 27.0 | 40.4 |
| 87 | 17.8 | 14.2 | 21.4 |

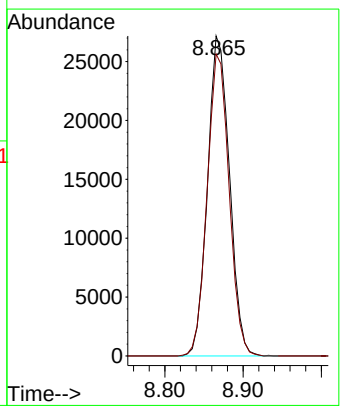


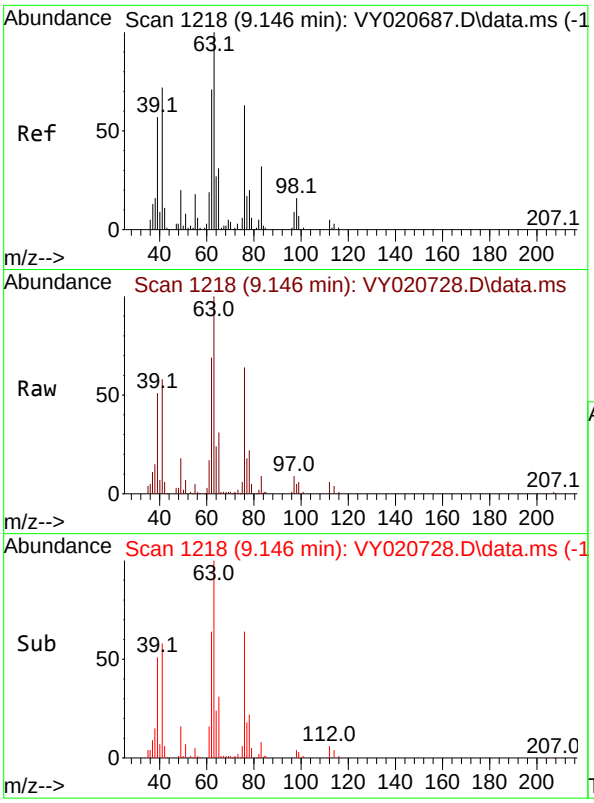




#44
Trichloroethene
Concen: 48.797 ug/l
RT: 8.865 min Scan# 1172
Delta R.T. -0.013 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:130 Resp: 52902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 94.3 | 0.0 | 194.8 |



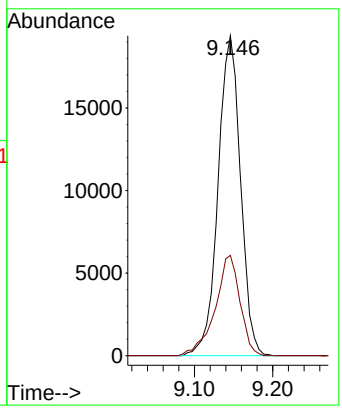


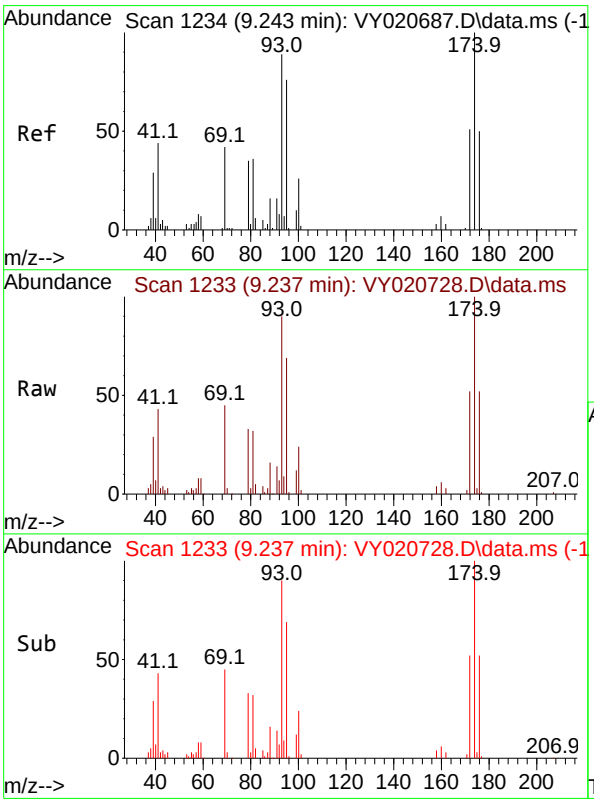

#45
1,2-Dichloropropane
Concen: 52.575 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 63 Resp: 38629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 24.6 | 36.8 |

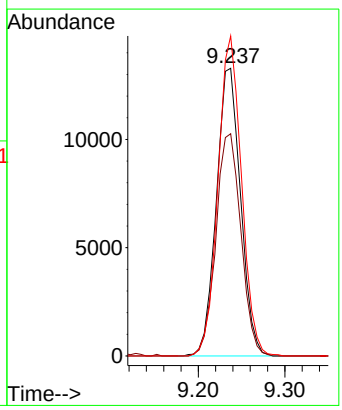


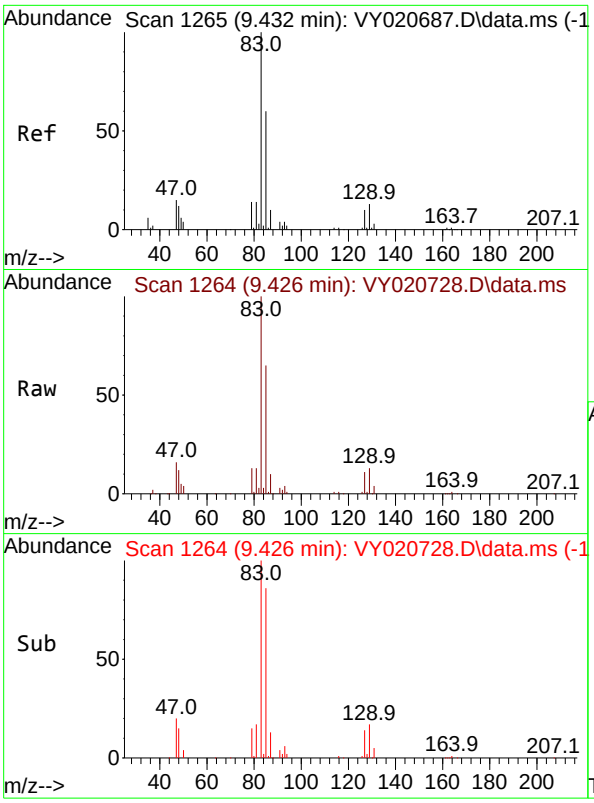




#46
Dibromomethane
Concen: 50.665 ug/l
RT: 9.237 min Scan# 1233
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 93 Resp: 25757

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 79.7 | 67.8 | 101.8 |
| 174 | 108.0 | 89.4 | 134.0 |



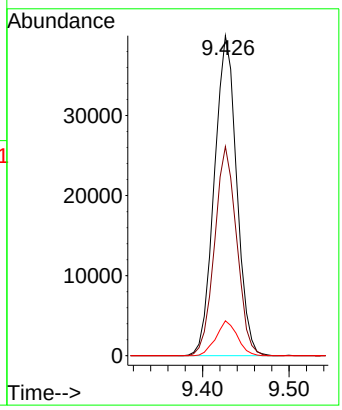


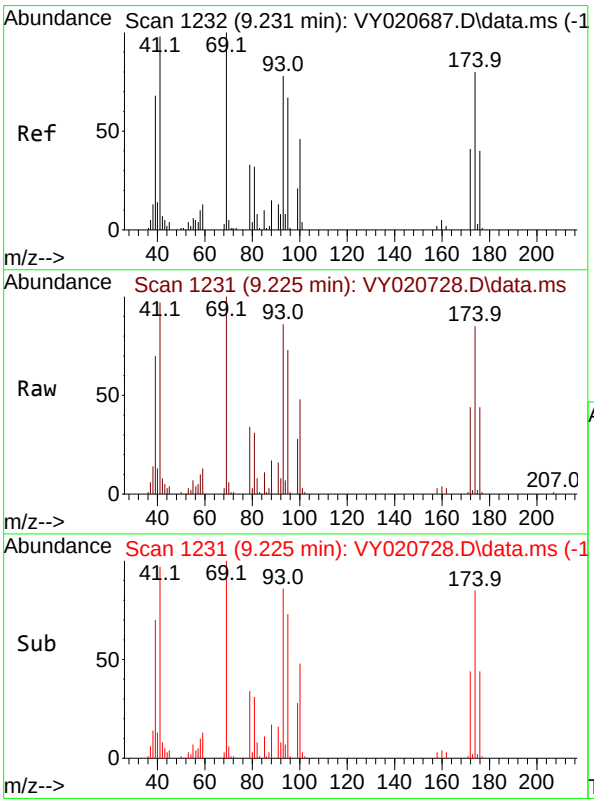

#47
Bromodichloromethane
Concen: 49.700 ug/l
RT: 9.426 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 71632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.3 | 47.6 | 71.4 |
| 127 | 10.9 | 7.9 | 11.9 |

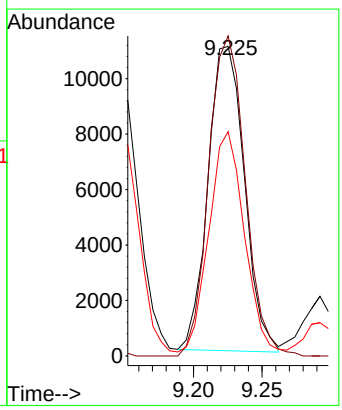


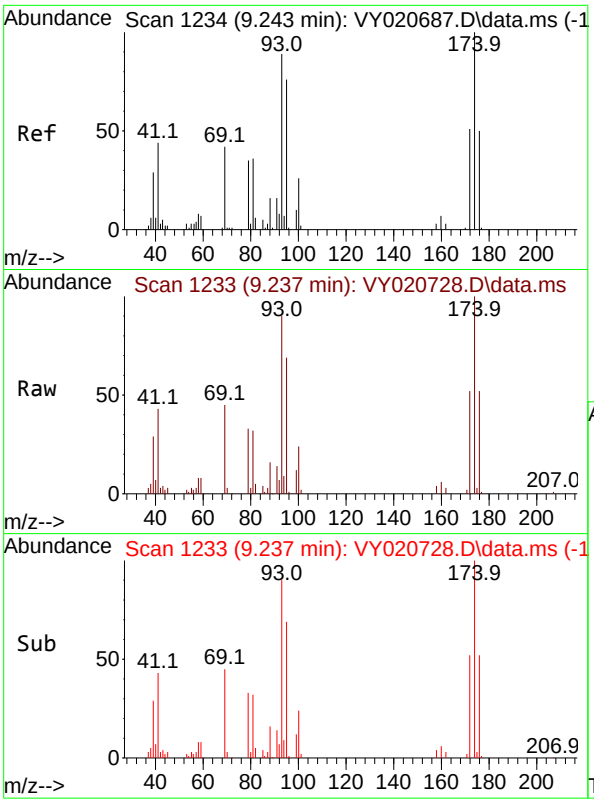




#48
Methyl methacrylate
Concen: 49.466 ug/l
RT: 9.225 min Scan# 1231
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 41 Resp: 20264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 105.8 | 83.1 | 124.7 |
| 39 | 70.4 | 57.3 | 85.9 |



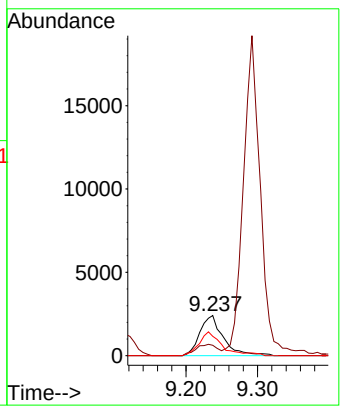


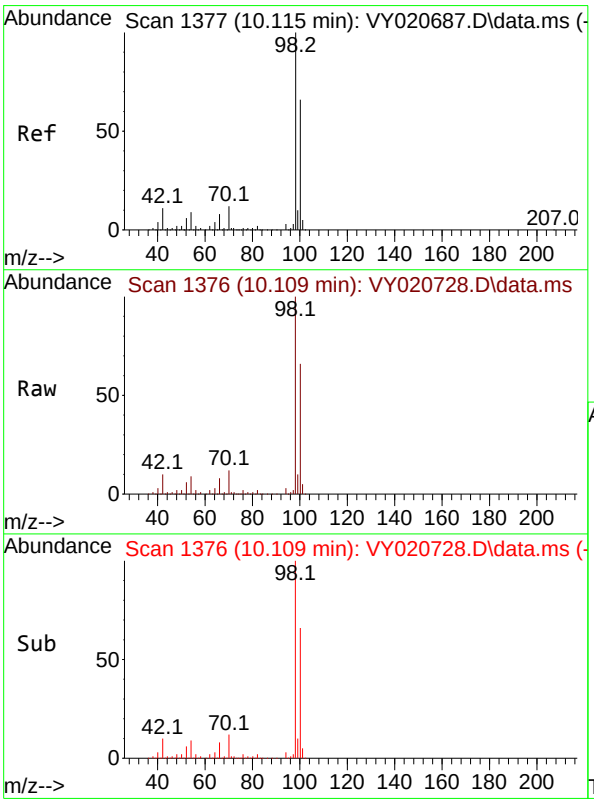

#49
1,4-Dioxane
Concen: 1130.206 ug/l
RT: 9.237 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 88 Resp: 5473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 26.4 | 22.1 | 33.1 |
| 58 | 58.8 | 46.7 | 70.1 |

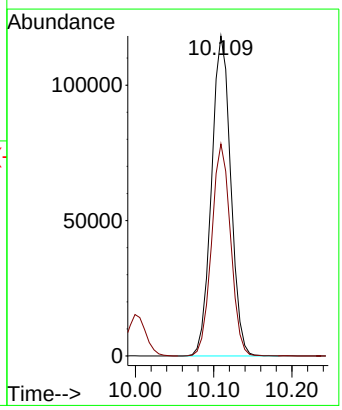


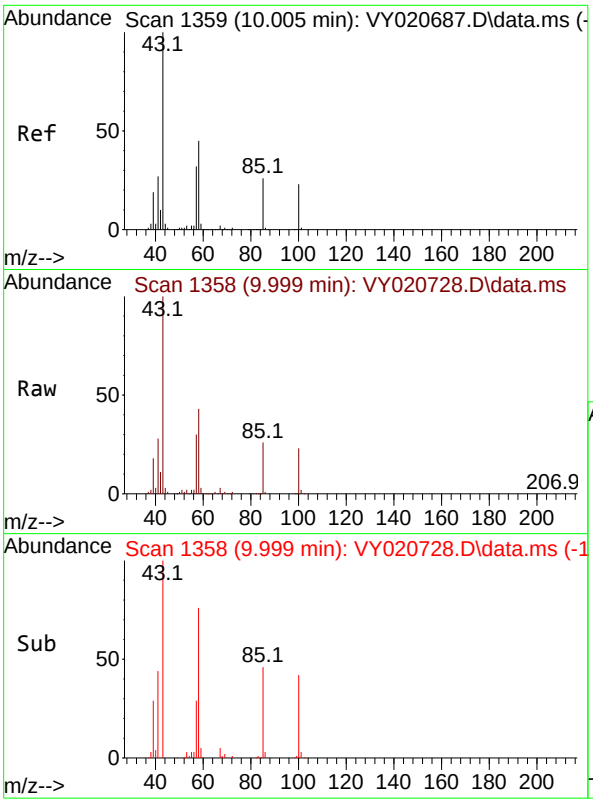




#50
Toluene-d8
Concen: 53.305 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 98 Resp: 201423

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.4 | 52.2 | 78.4 |



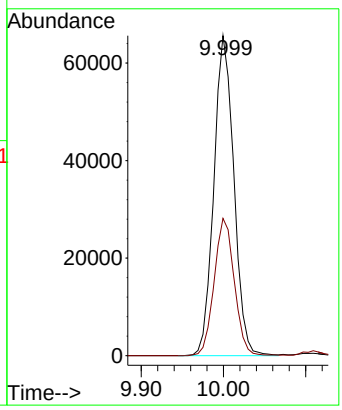


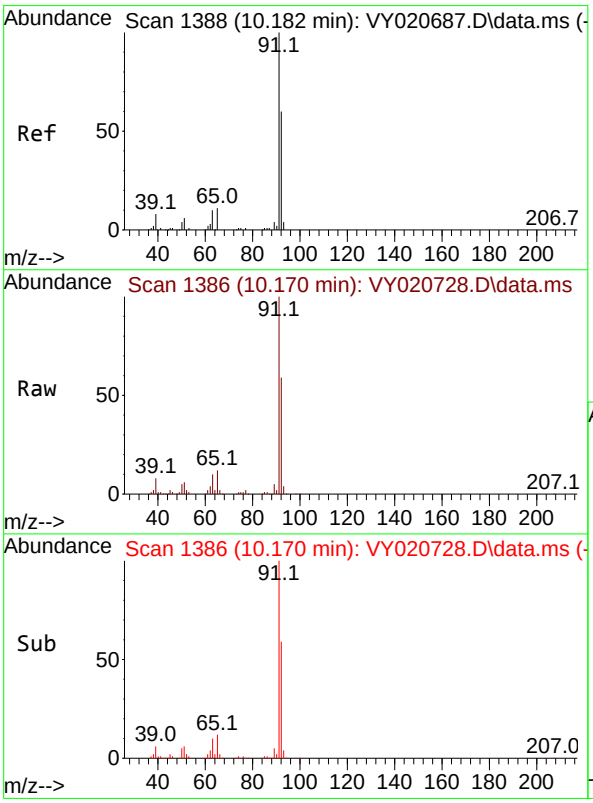

#51
4-Methyl-2-Pentanone
Concen: 262.443 ug/l
RT: 9.999 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 111120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 43.2 | 35.1 | 52.7 |

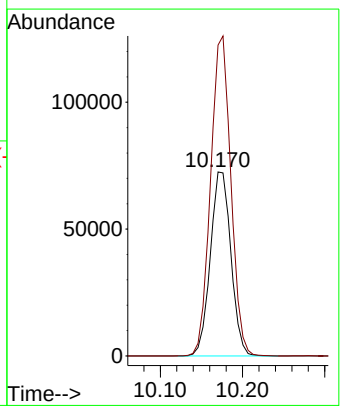


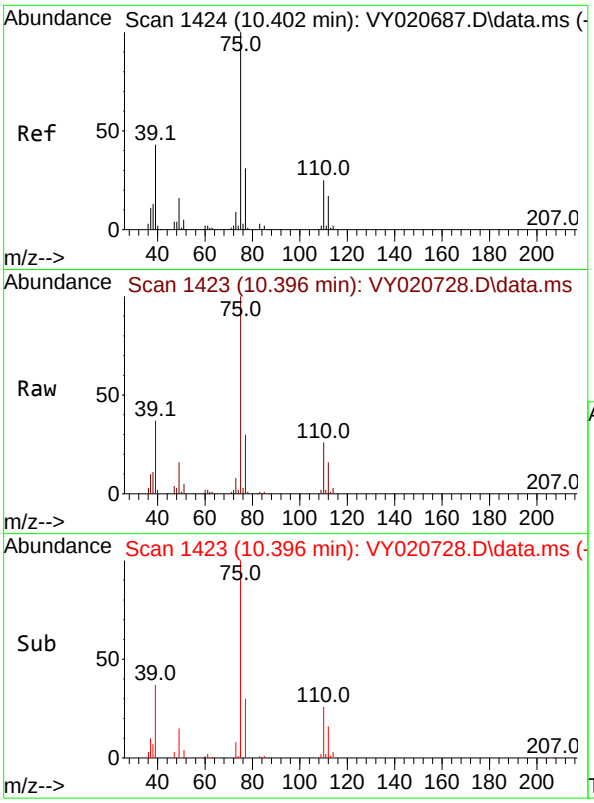




#52
Toluene
Concen: 50.676 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.012 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 92 Resp: 126070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.5 | 137.7 | 206.5 |



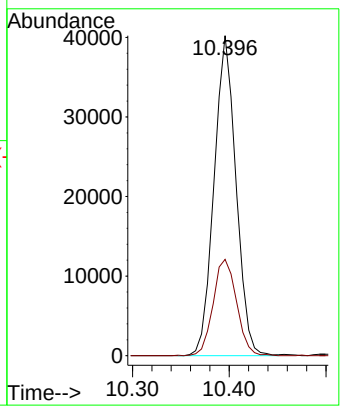


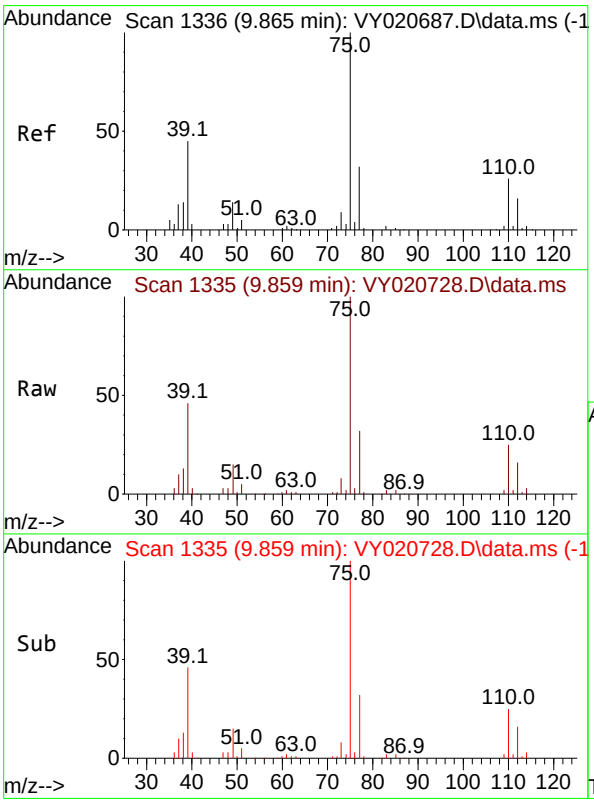

#53
t-1,3-Dichloropropene
Concen: 49.943 ug/l
RT: 10.396 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 63222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.1 | 25.1 | 37.7 |

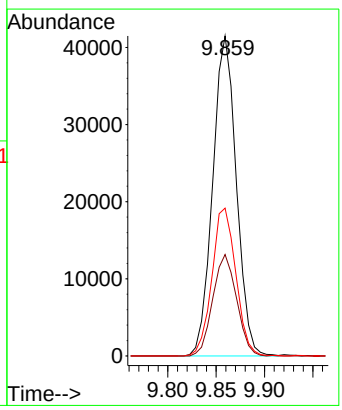


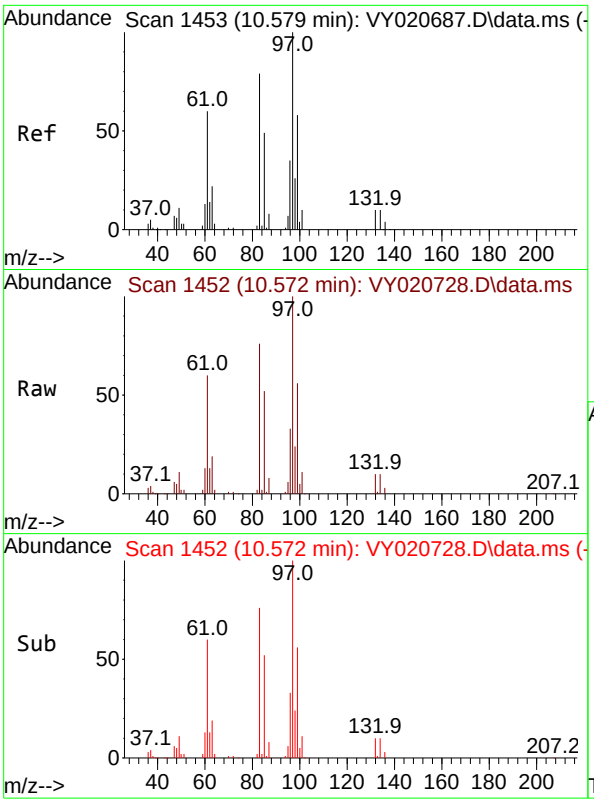




#54
cis-1,3-Dichloropropene
Concen: 50.773 ug/l
RT: 9.859 min Scan# 1335
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 75 Resp: 70450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.7 | 25.6 | 38.4 |
| 39 | 46.2 | 36.2 | 54.2 |



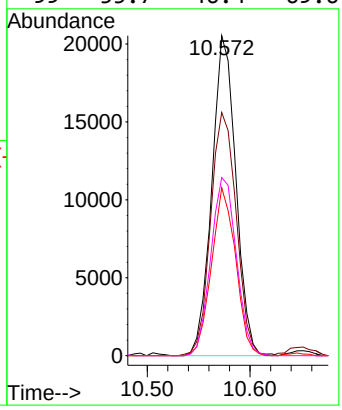


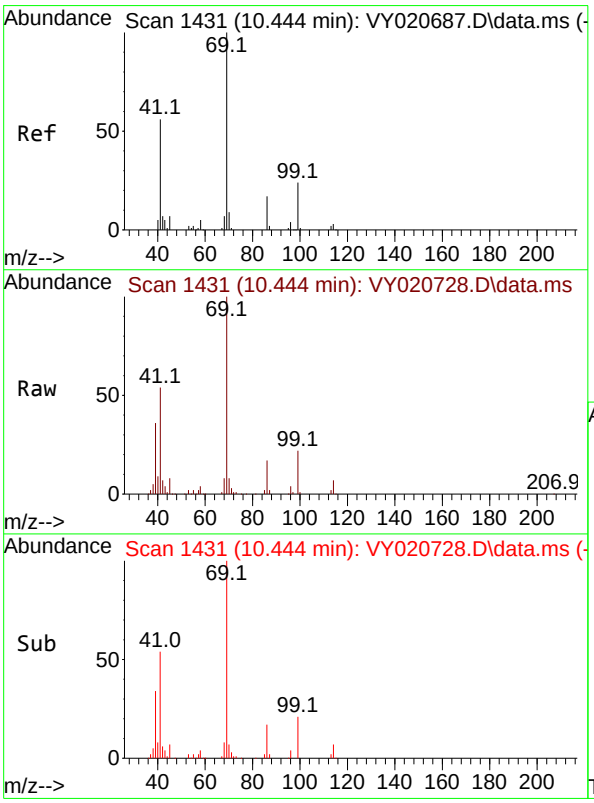

#55
1,1,2-Trichloroethane
Concen: 51.326 ug/l
RT: 10.572 min Scan# 14
Delta R.T. -0.007 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 97 Resp: 33307

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 76.0 | 63.1 | 94.7 |
| 85 | 52.5 | 39.5 | 59.3 |
| 99 | 55.7 | 46.4 | 69.6 |

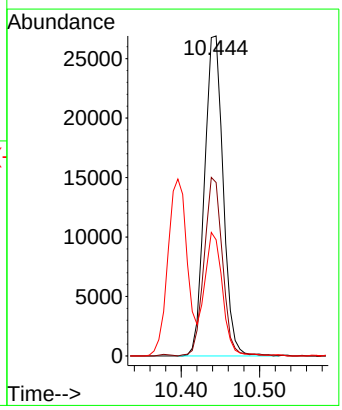


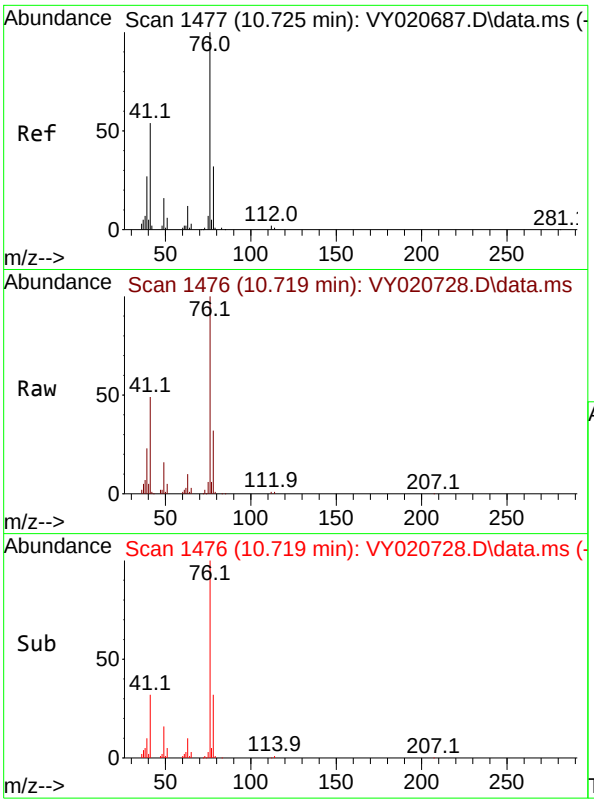




#56
Ethyl methacrylate
Concen: 51.971 ug/l
RT: 10.444 min Scan# 1431
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 69 Resp: 44306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 55.3 | 43.8 | 65.6 |
| 39 | 36.4 | 32.0 | 48.0 |



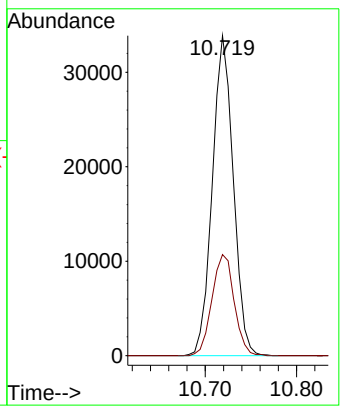


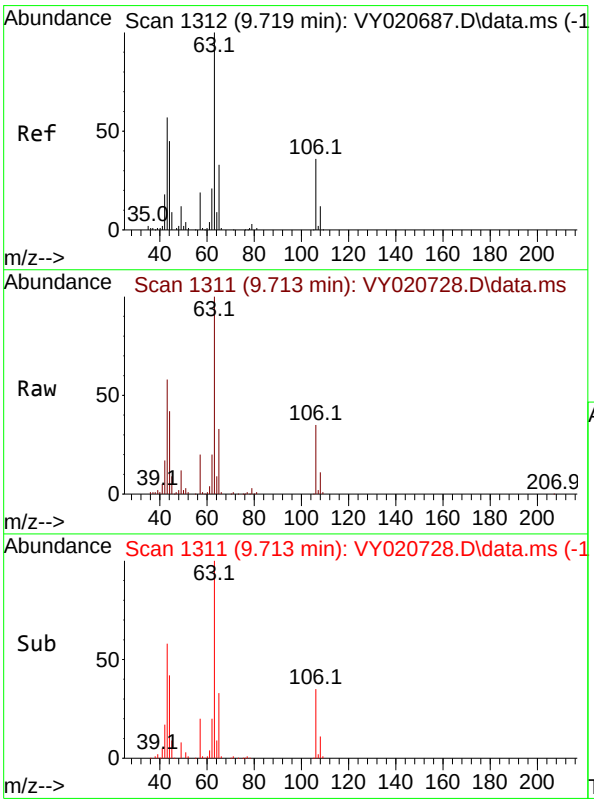

#57
1,3-Dichloropropane
Concen: 51.138 ug/l
RT: 10.719 min Scan# 14
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 53860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 33.5 | 25.0 | 37.6 |

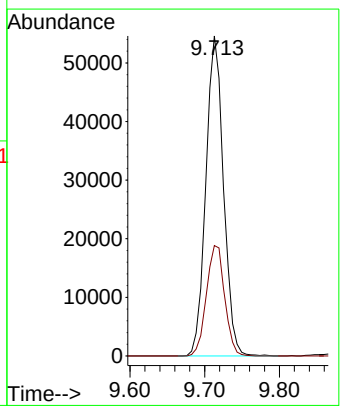


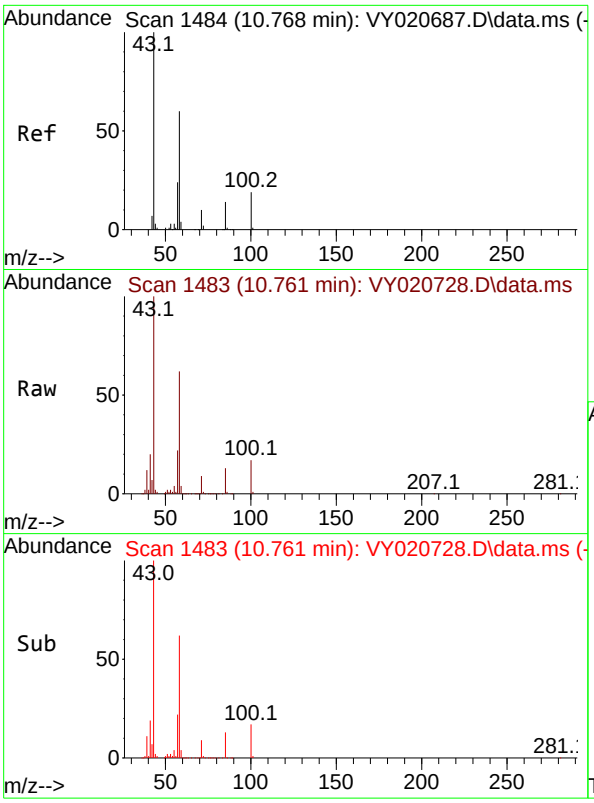




#58
2-Chloroethyl Vinyl ether
Concen: 300.757 ug/l
RT: 9.713 min Scan# 1311
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 63 Resp: 89410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 35.7 | 29.1 | 43.7 |



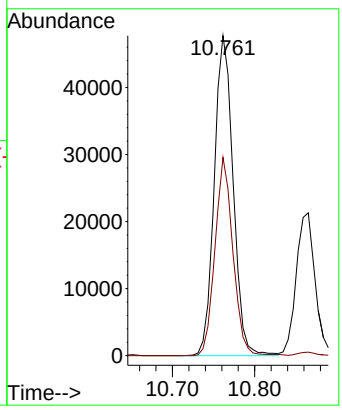


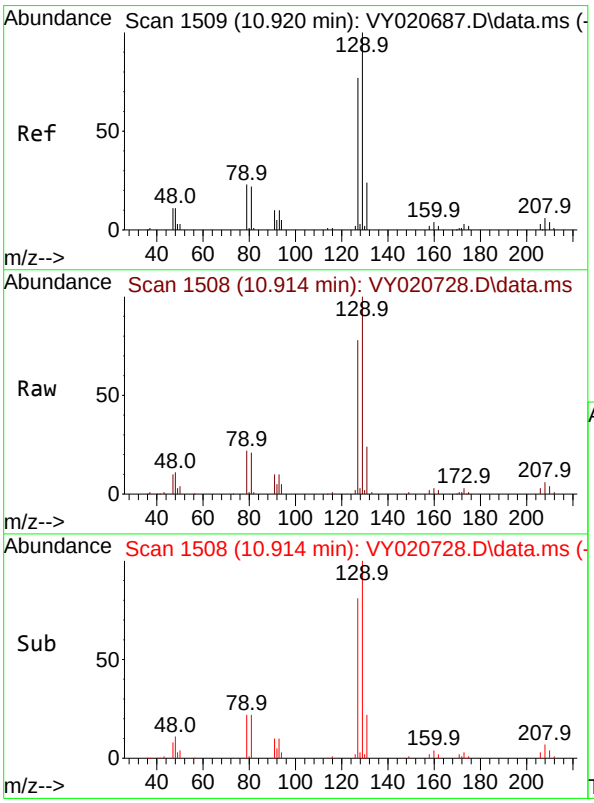

#59
2-Hexanone
Concen: 272.444 ug/l
RT: 10.761 min Scan# 14
Delta R.T. -0.007 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 76163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 58.9 | 30.1 | 90.5 |

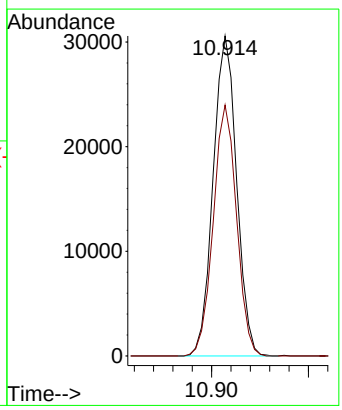


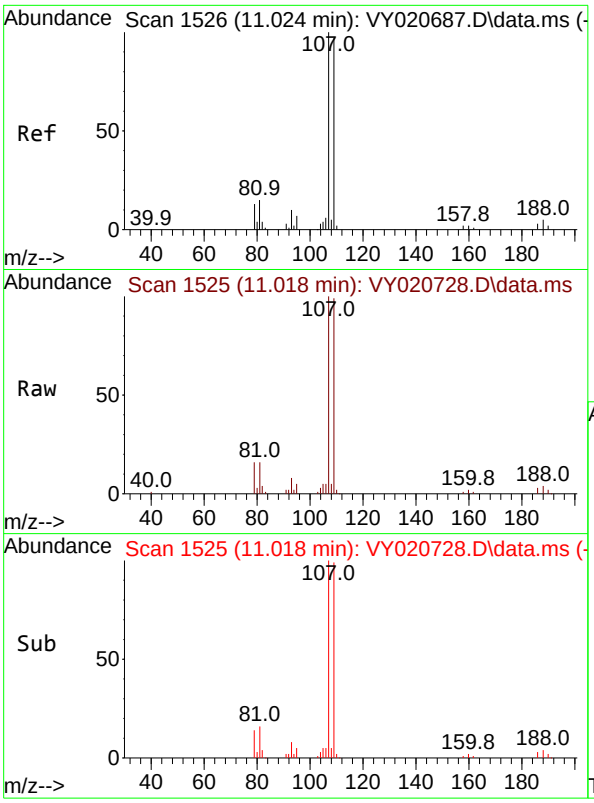




#60
Dibromochloromethane
Concen: 49.038 ug/l
RT: 10.914 min Scan# 1508
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:129 Resp: 51420

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 38.5 | 115.5 |



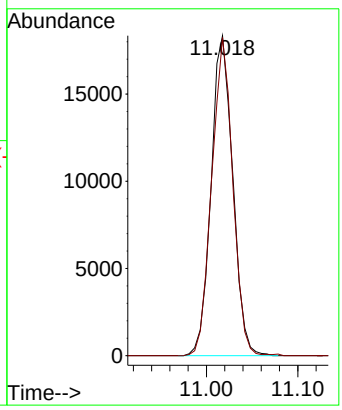


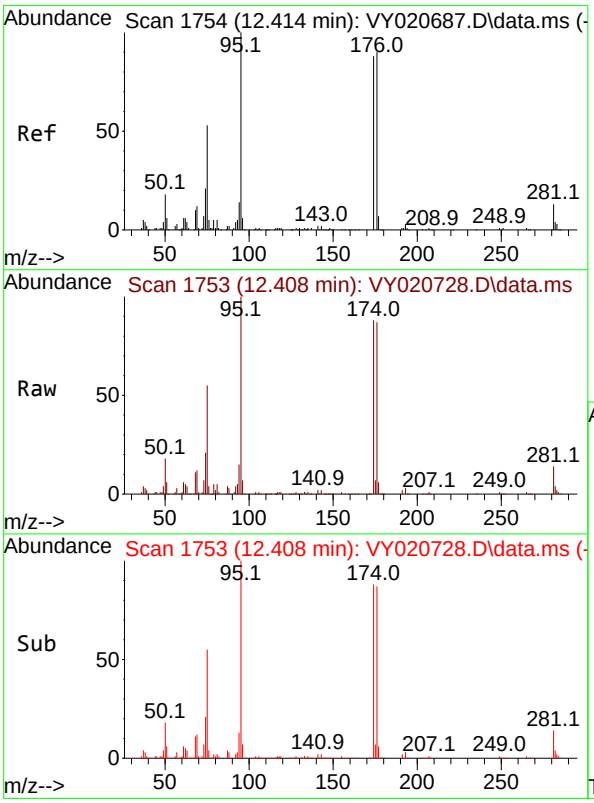

#61
1,2-Dibromoethane
Concen: 49.418 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:107 Resp: 30175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 96.8 | 75.5 | 113.3 |

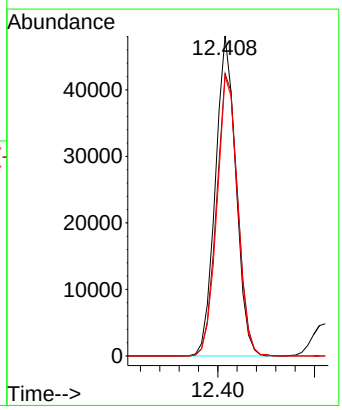


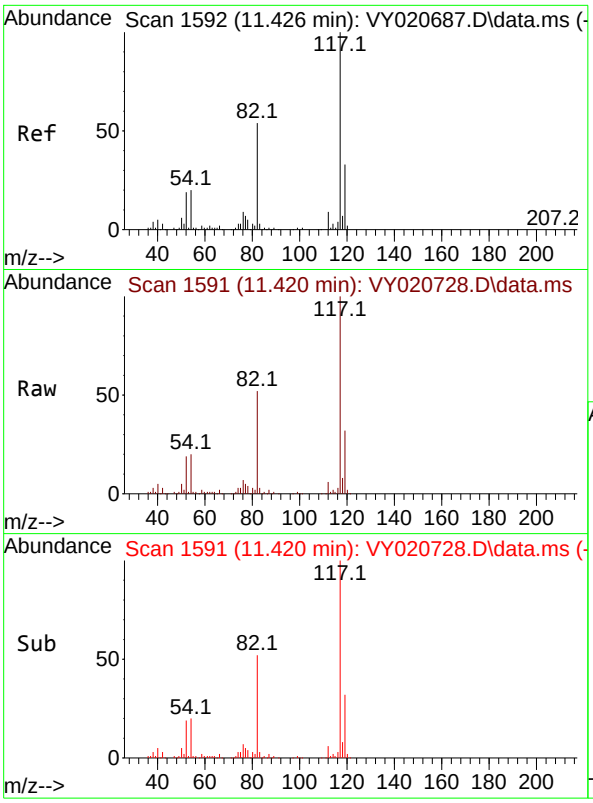




#62
4-Bromofluorobenzene
Concen: 56.112 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 95 Resp: 70702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 91.1 | 0.0 | 179.2 |
| 176 | 88.0 | 0.0 | 179.8 |



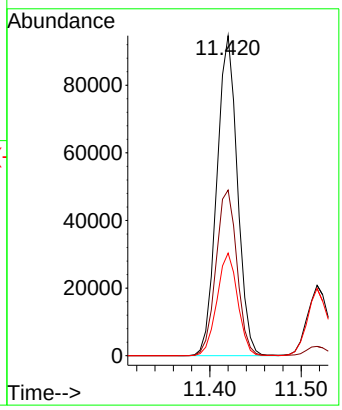


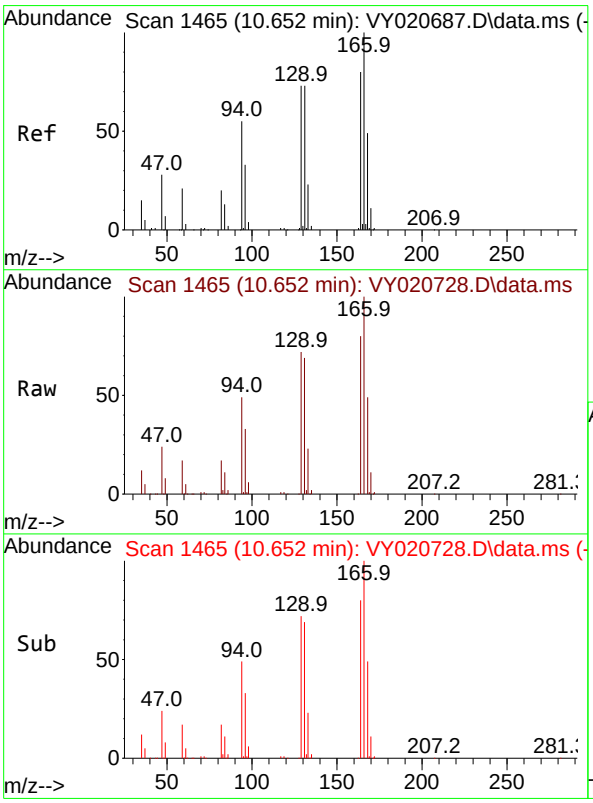

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:117 Resp: 148030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 51.7 | 43.4 | 65.2 |
| 119 | 32.0 | 26.6 | 39.8 |

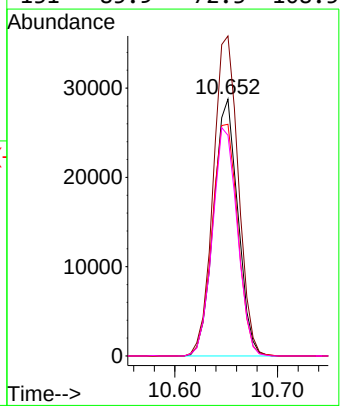


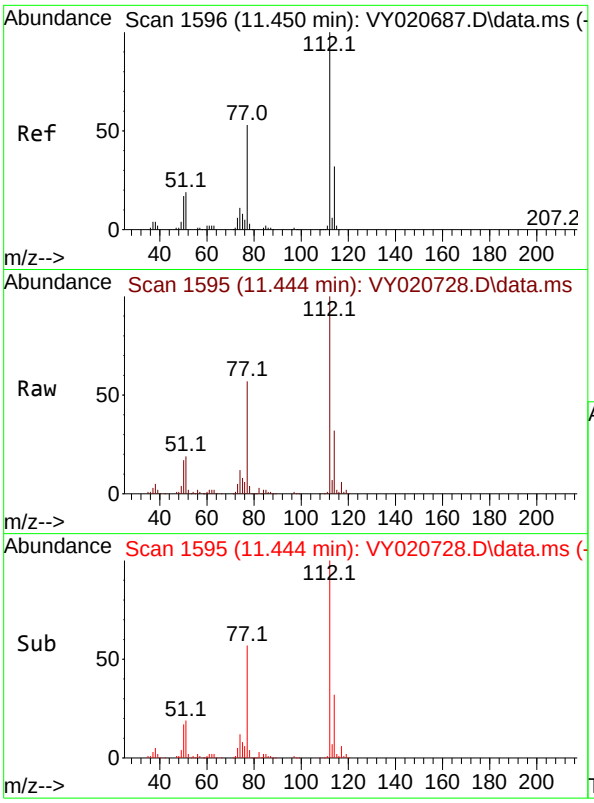




#64
Tetrachloroethene
Concen: 46.676 ug/l
RT: 10.652 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:164 Resp: 47206

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.6 | 99.6 | 149.4 |
| 129 | 90.2 | 73.0 | 109.4 |
| 131 | 85.9 | 72.3 | 108.5 |



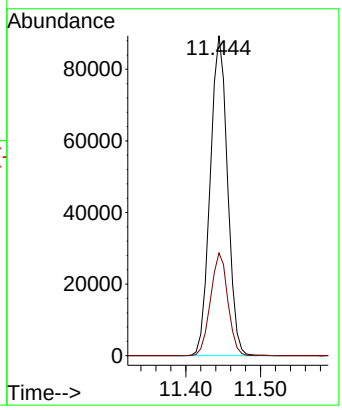


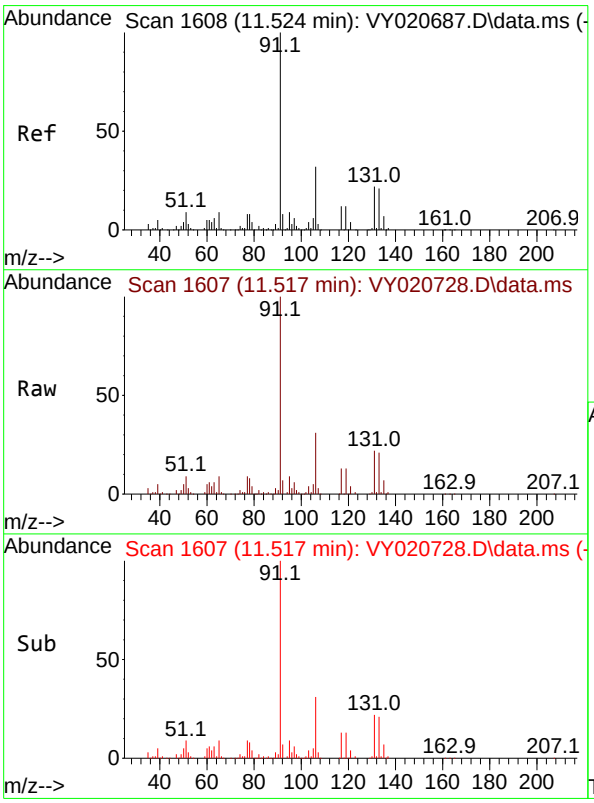

#65
Chlorobenzene
Concen: 49.537 ug/l
RT: 11.444 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:112 Resp: 143586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.1 | 25.4 | 38.0 |

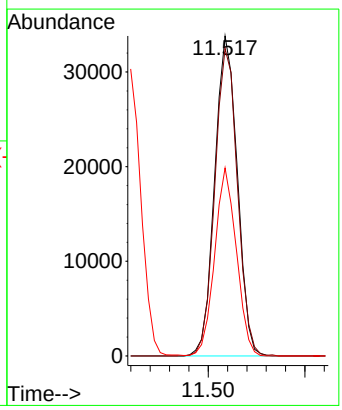


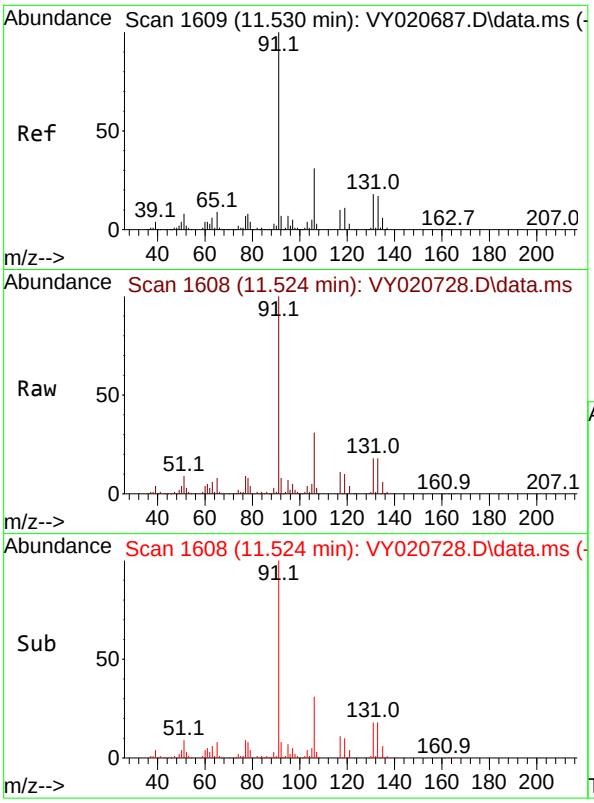




#66
1,1,1,2-Tetrachloroethane
Concen: 48.804 ug/l
RT: 11.517 min Scan# 1607
Delta R.T. -0.007 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:131 Resp: 54805

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.5 | 48.6 | 145.9 |
| 119 | 56.5 | 28.4 | 85.3 |



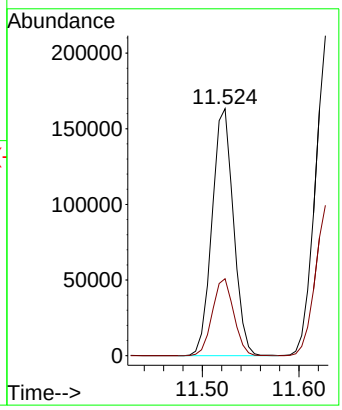


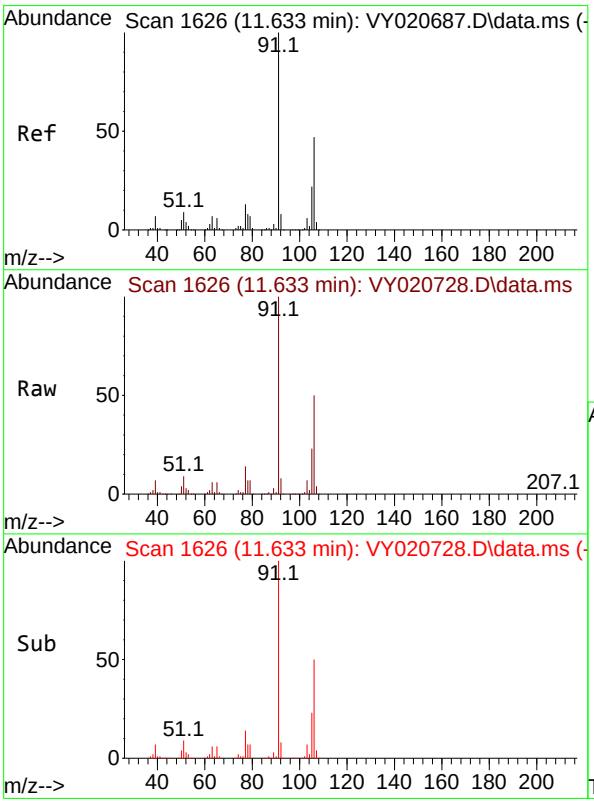

#67
Ethyl Benzene
Concen: 49.546 ug/l
RT: 11.524 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 251000

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.1 | 24.5 | 36.7 |

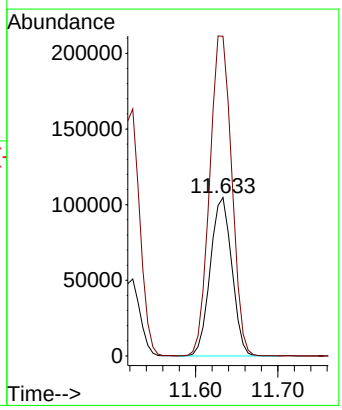


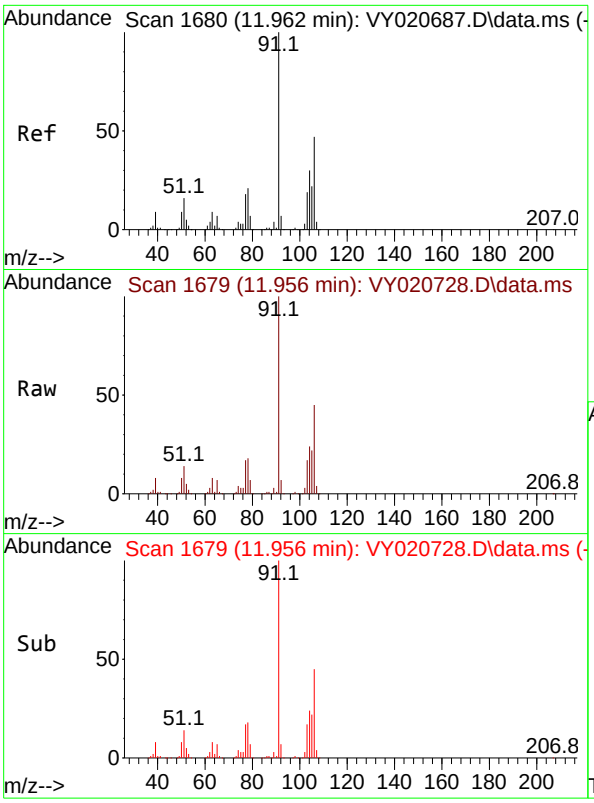




#68
m/p-Xylenes
Concen: 98.695 ug/l
RT: 11.633 min Scan# 1626
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:106 Resp: 190725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.9 | 166.6 | 250.0 |



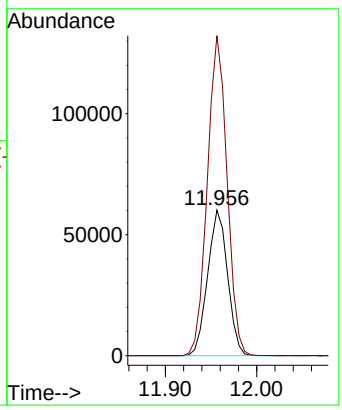


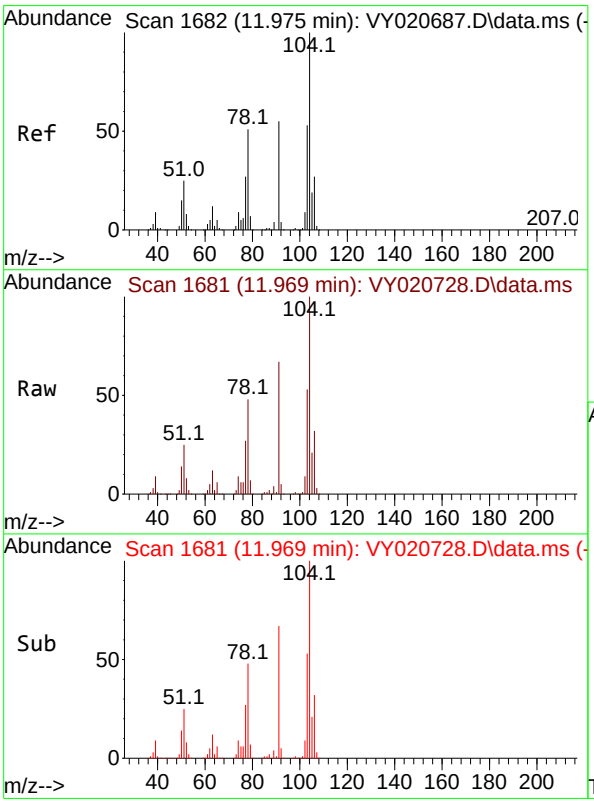

#69
o-Xylene
Concen: 49.380 ug/l
RT: 11.956 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:106 Resp: 91171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.1 | 108.6 | 325.8 |

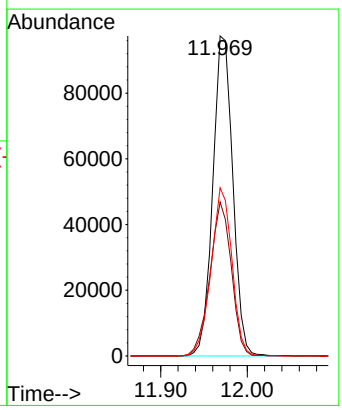


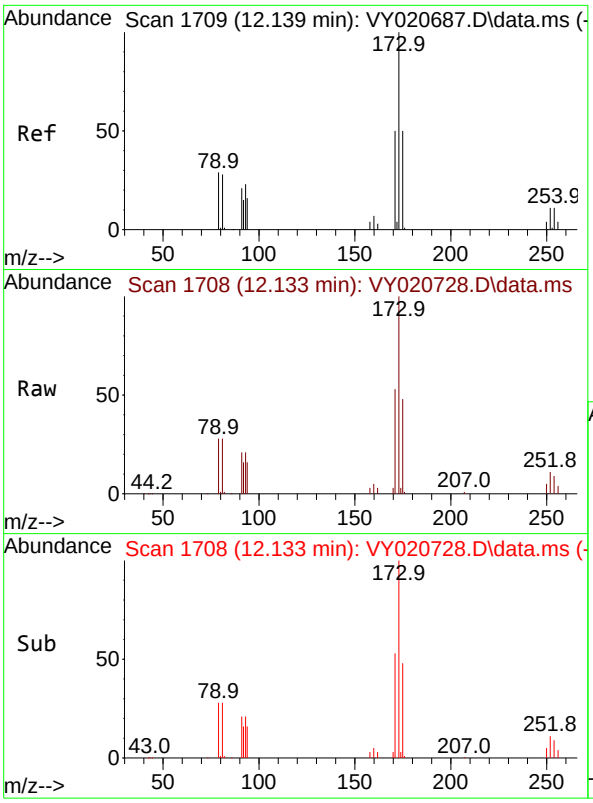




#70
Styrene
Concen: 50.397 ug/l
RT: 11.969 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:104 Resp: 156202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.6 | 43.0 | 64.4 |
| 103 | 54.9 | 44.4 | 66.6 |



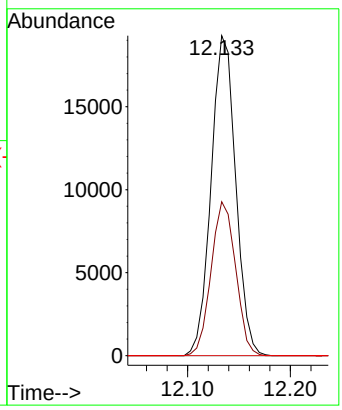


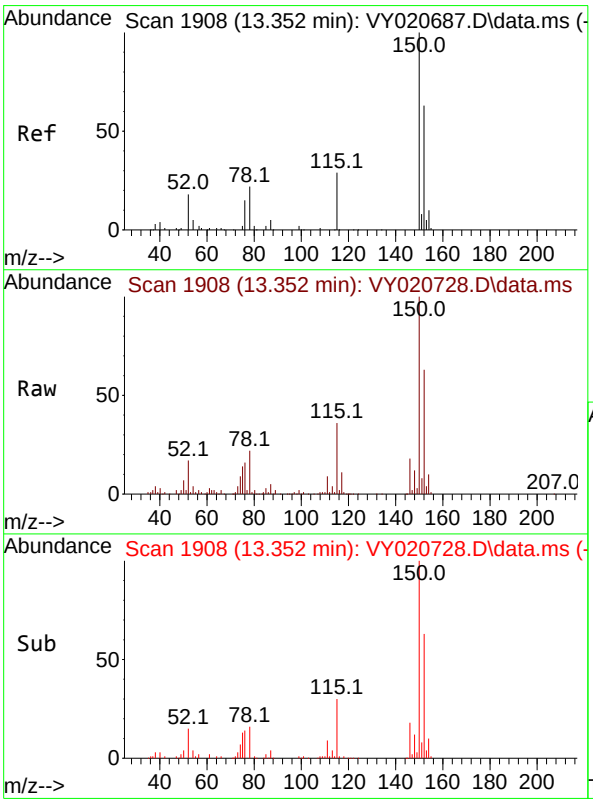

#71
Bromoform
Concen: 49.586 ug/l
RT: 12.133 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:173 Resp: 32013

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 24.2 | 72.6 |
| 254 | 0.0 | 0.0 | 0.0 |

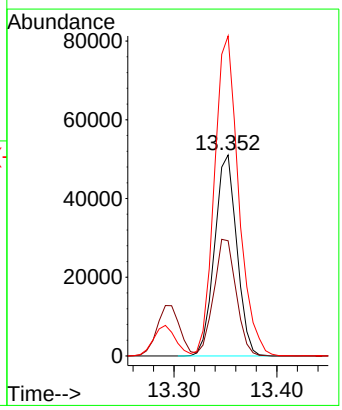


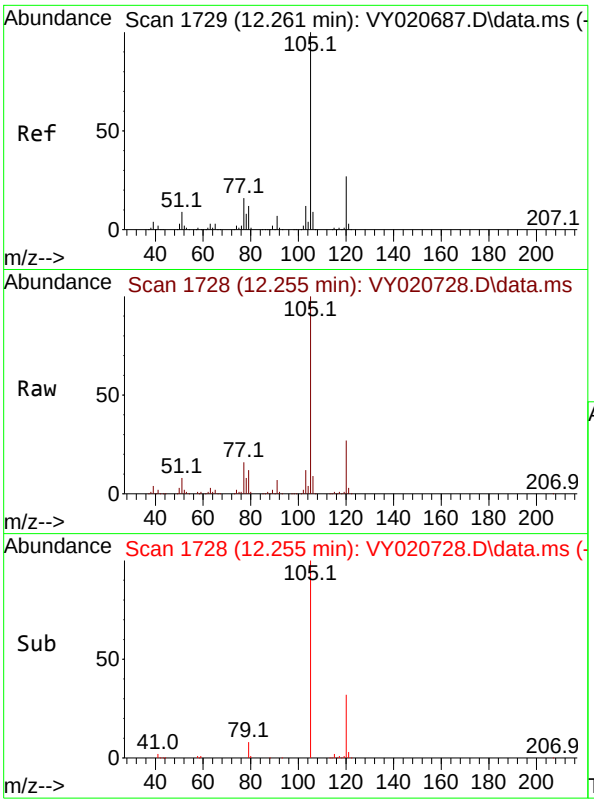




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.352 min Scan# 1908
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:152 Resp: 76525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 58.5 | 30.3 | 90.9 |
| 150 | 173.6 | 0.0 | 349.0 |



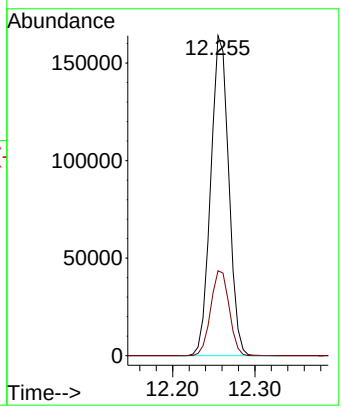


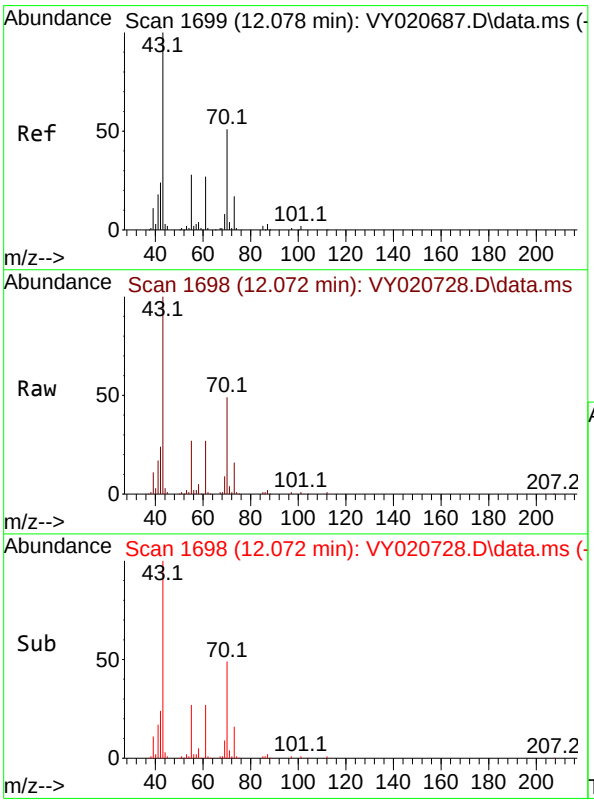

#73
Isopropylbenzene
Concen: 47.089 ug/l
RT: 12.255 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 249657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.1 | 13.3 | 39.9 |

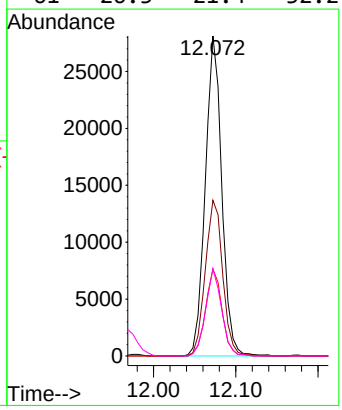


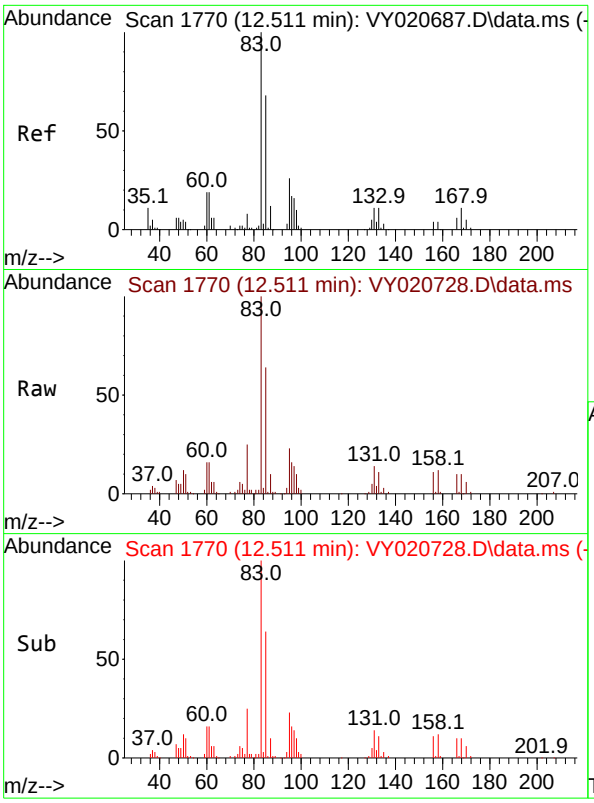




#74
N-amyl acetate
Concen: 52.059 ug/l
RT: 12.072 min Scan# 1698
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 43 Resp: 39222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 51.5 | 39.7 | 59.5 |
| 55 | 27.2 | 21.5 | 32.3 |
| 61 | 26.3 | 21.4 | 32.2 |



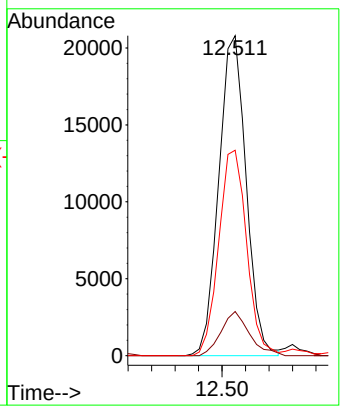


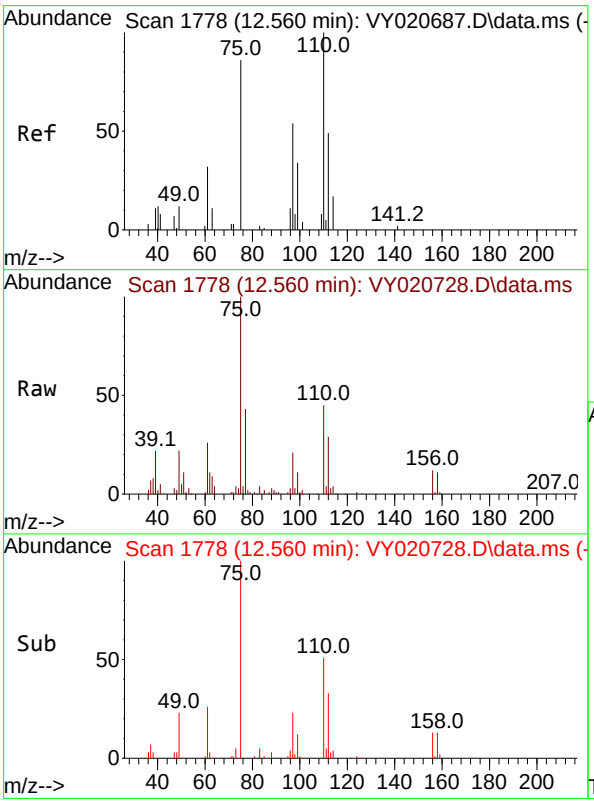

#75
1,1,2,2-Tetrachloroethane
Concen: 49.563 ug/l
RT: 12.511 min Scan# 1
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 33686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 14.3 | 6.9 | 20.7 |
| 85 | 65.4 | 32.5 | 97.4 |

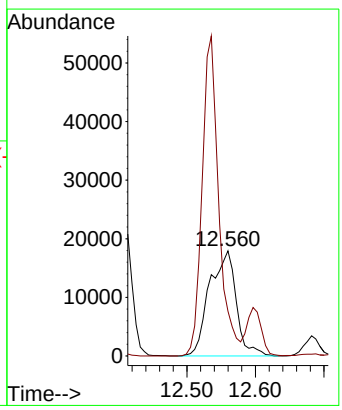


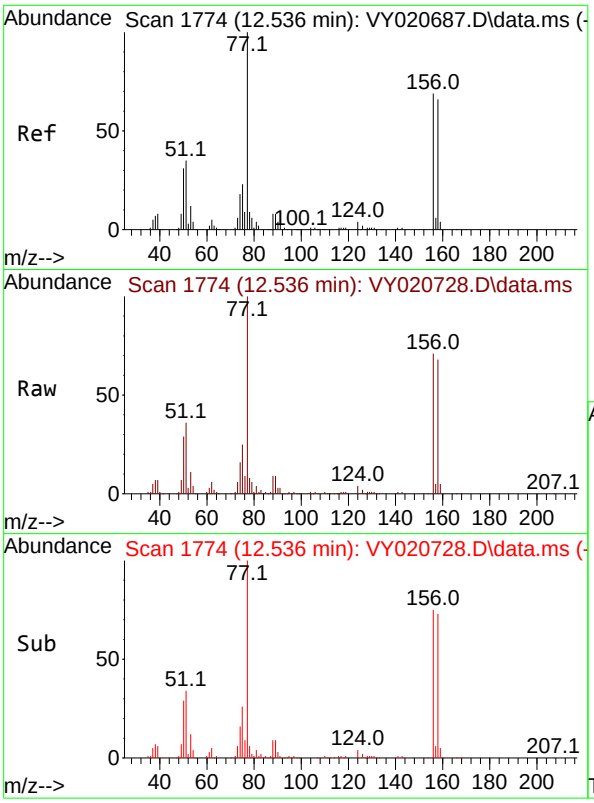




#76
1,2,3-Trichloropropane
Concen: 99.947 ug/l
RT: 12.560 min Scan# 1778
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 75 Resp: 48645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 0.0 | 0.0 | 0.0 |



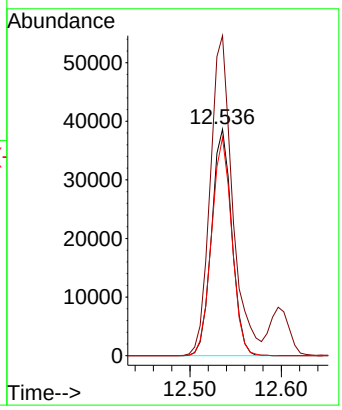


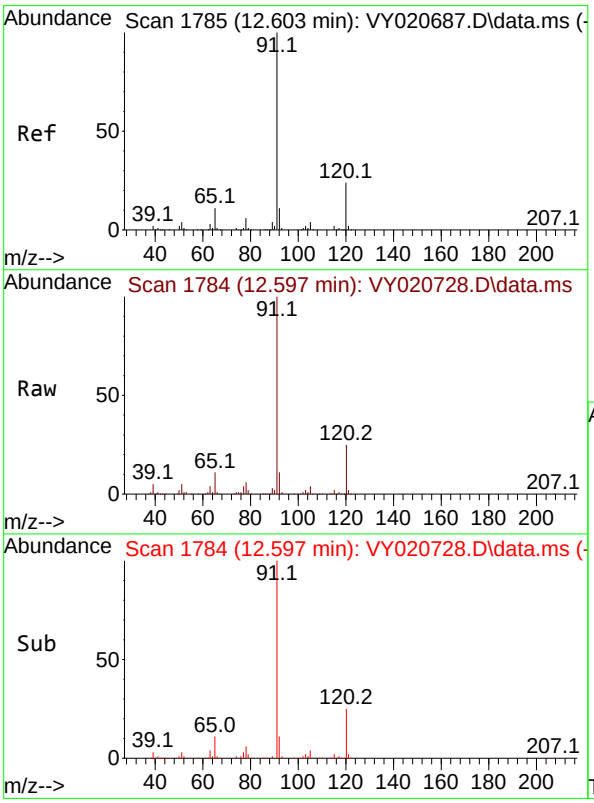

#77
Bromobenzene
Concen: 48.546 ug/l
RT: 12.536 min Scan# 1
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:156 Resp: 59248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 156.2 | 78.3 | 235.0 |
| 158 | 96.7 | 48.3 | 144.9 |

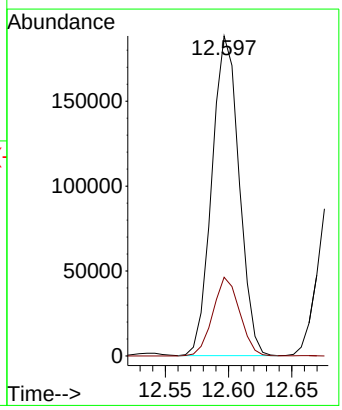


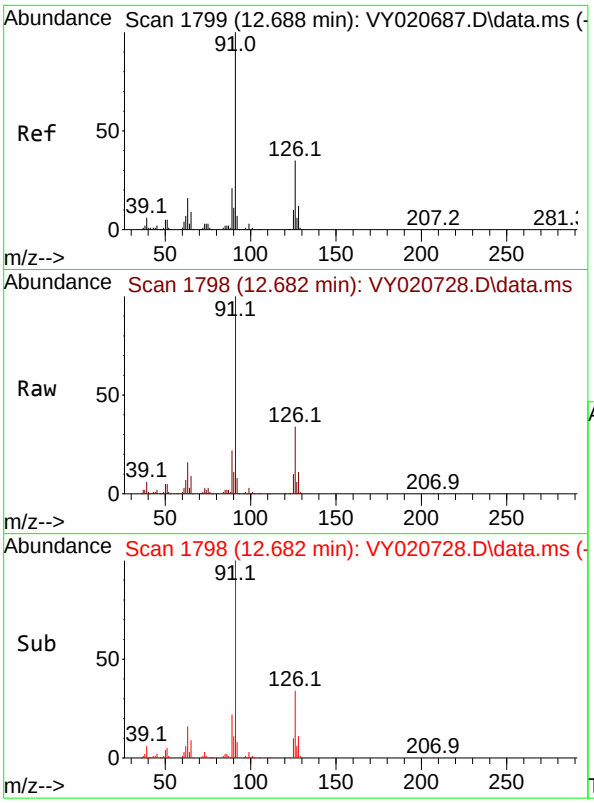




#78
n-propylbenzene
Concen: 47.482 ug/l
RT: 12.597 min Scan# 1784
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 91 Resp: 282155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 24.1 | 12.3 | 36.8 |



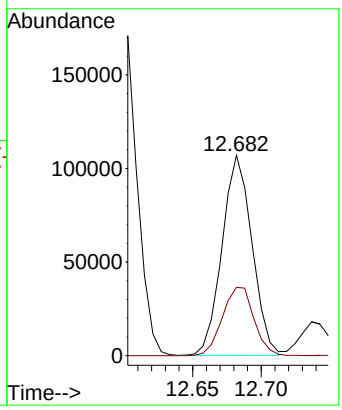


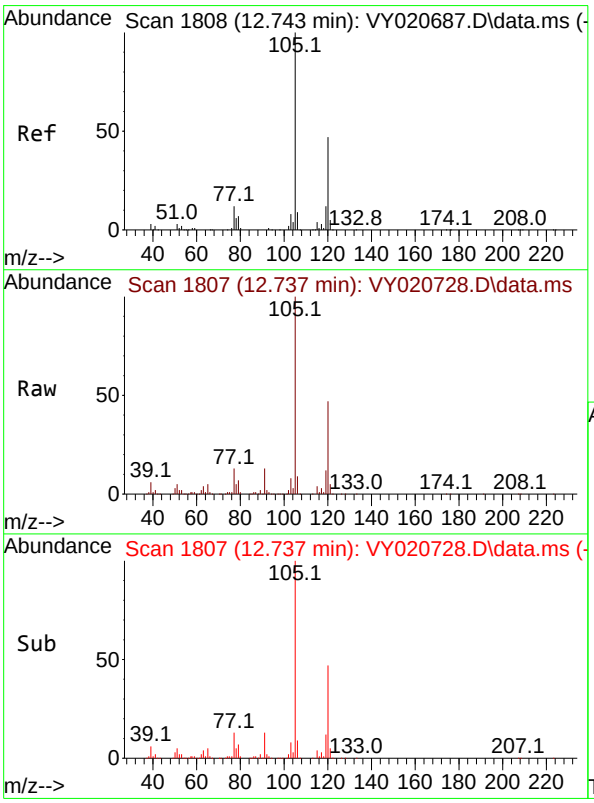

#79
2-Chlorotoluene
Concen: 48.116 ug/l
RT: 12.682 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 162993

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.9 | 17.8 | 53.3 |

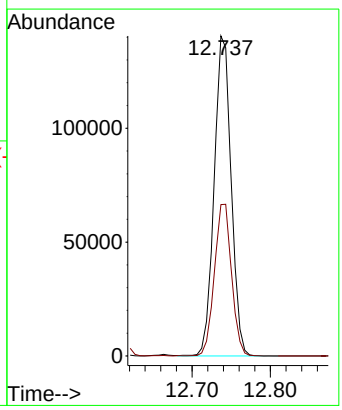


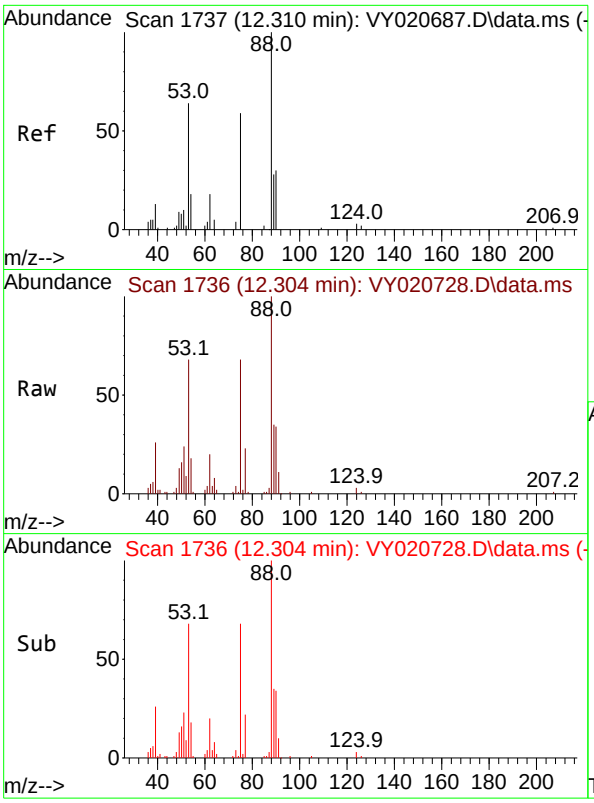




#80
1,3,5-Trimethylbenzene
Concen: 48.002 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:105 Resp: 212033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.9 | 23.9 | 71.7 |



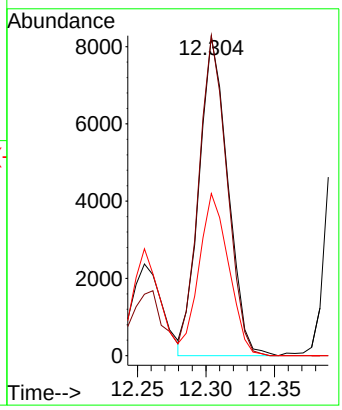


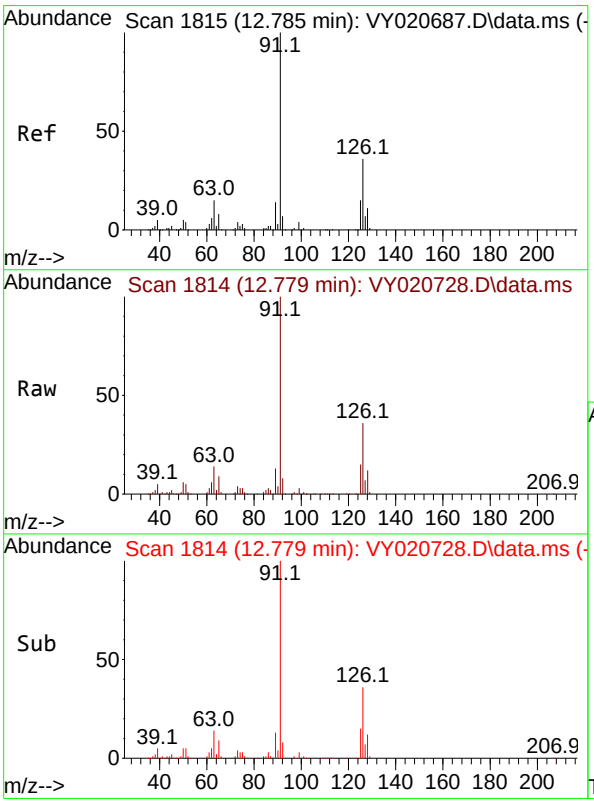

#81
trans-1,4-Dichloro-2-butene
Concen: 49.030 ug/l
RT: 12.304 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 12073

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 98.5 | 83.1 | 124.7 |
| 89 | 52.3 | 40.6 | 61.0 |

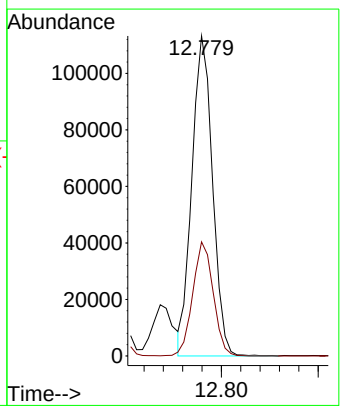


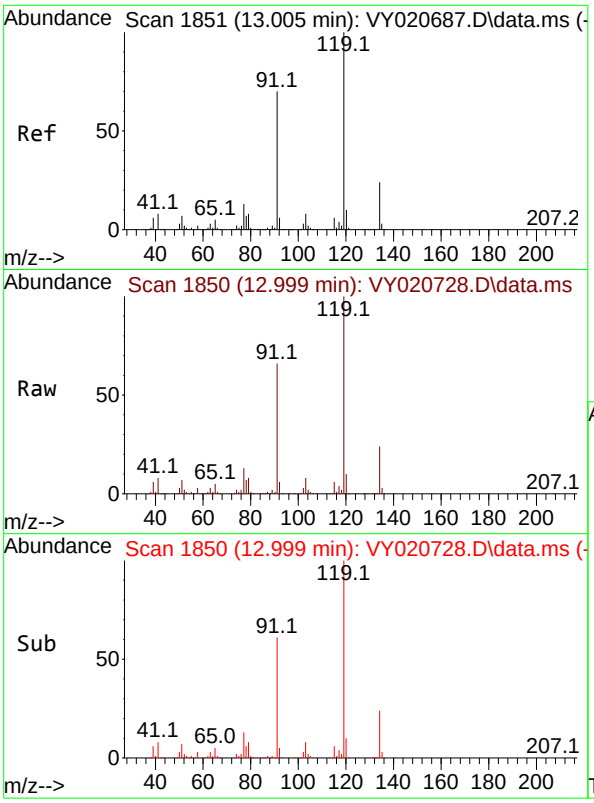




#82
4-Chlorotoluene
Concen: 47.924 ug/l
RT: 12.779 min Scan# 1814
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 91 Resp: 167778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 35.5 | 17.8 | 53.5 |



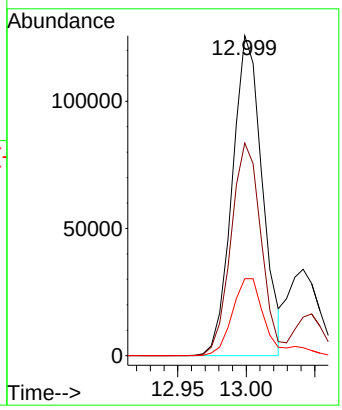


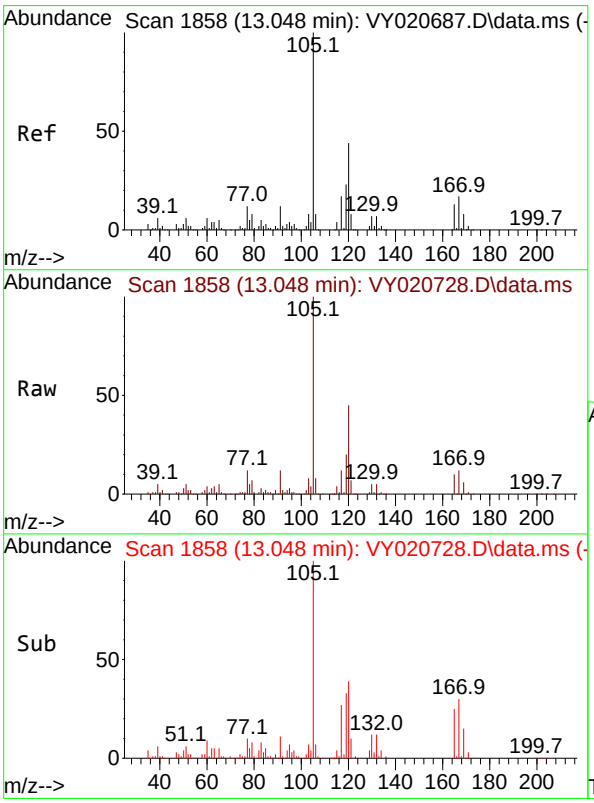

#83
tert-Butylbenzene
Concen: 46.437 ug/l
RT: 12.999 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:119 Resp: 191560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 67.2 | 33.6 | 100.8 |
| 134 | 27.0 | 13.4 | 40.2 |

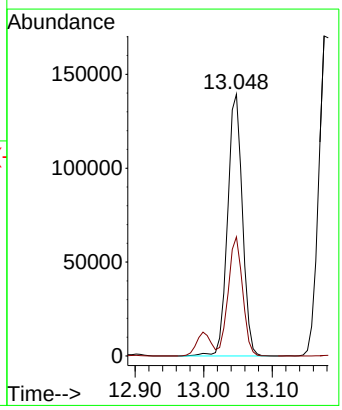


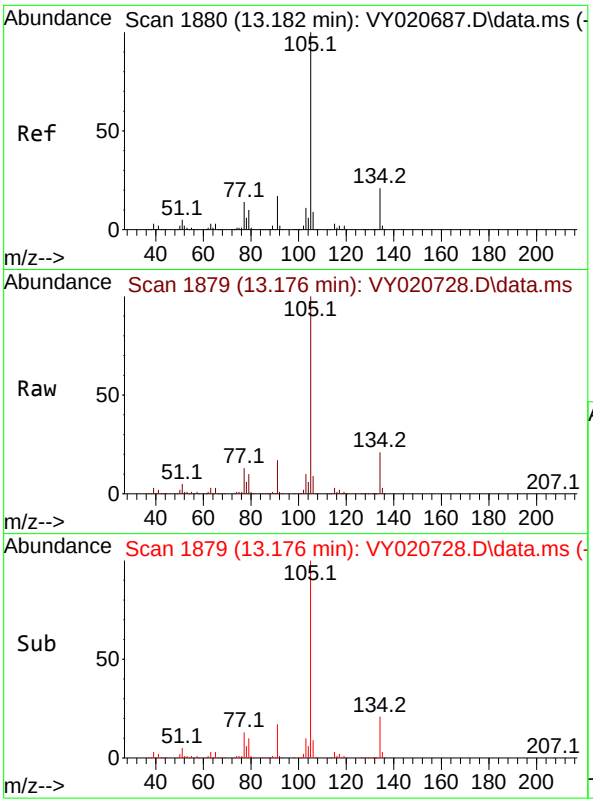




#84
1,2,4-Trimethylbenzene
Concen: 48.661 ug/l
RT: 13.048 min Scan# 1858
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:105 Resp: 209170

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 21.8 | 65.3 |



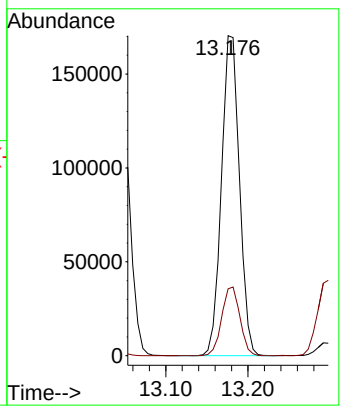


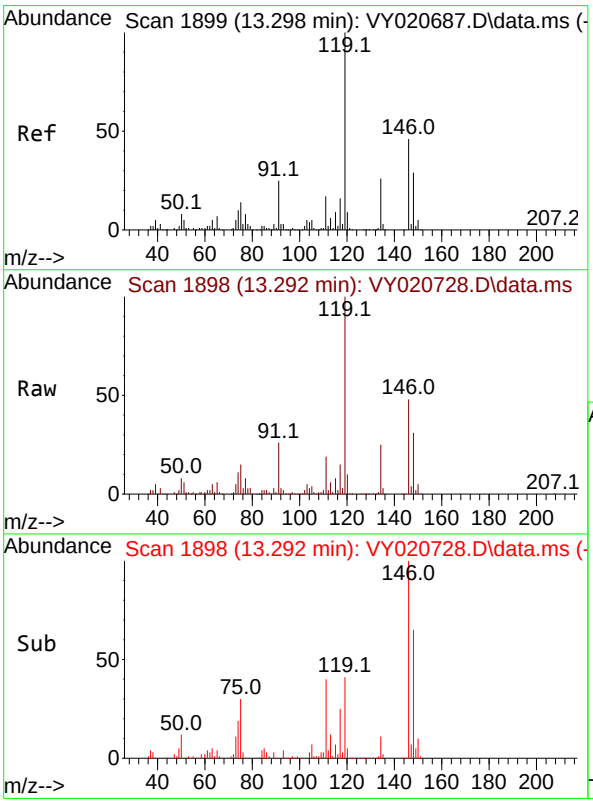

#85
sec-Butylbenzene
Concen: 46.679 ug/l
RT: 13.176 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 259512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 21.7 | 10.7 | 32.1 |

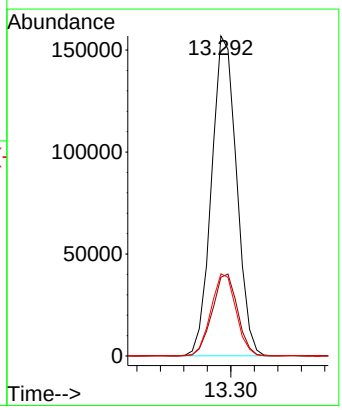


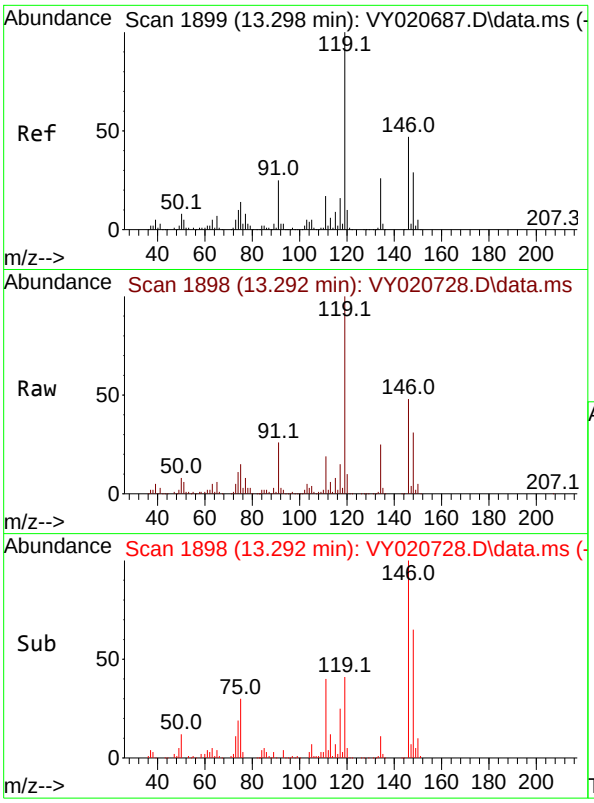




#86
p-Isopropyltoluene
Concen: 46.789 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:119 Resp: 231821

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 13.4 | 40.2 |
| 91 | 25.8 | 12.9 | 38.6 |



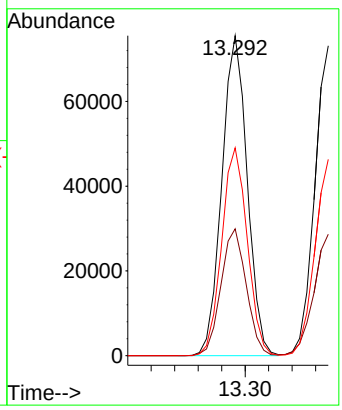


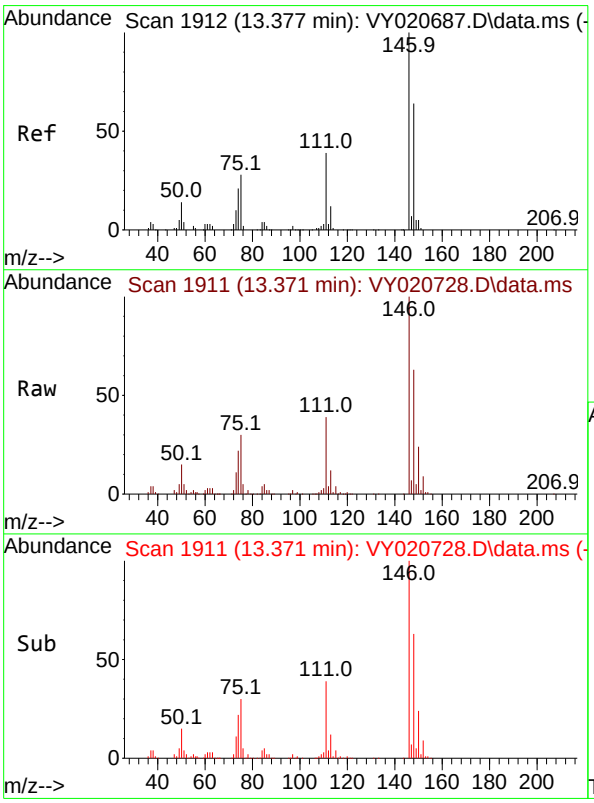

#87
1,3-Dichlorobenzene
Concen: 47.503 ug/l
RT: 13.292 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 113309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.7 | 19.3 | 57.8 |
| 148 | 65.4 | 31.1 | 93.5 |

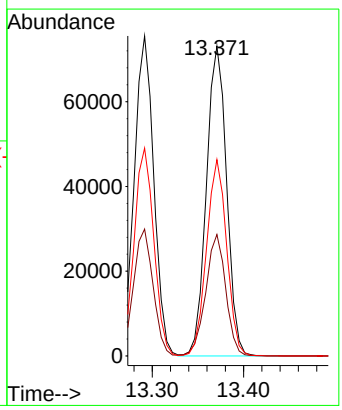


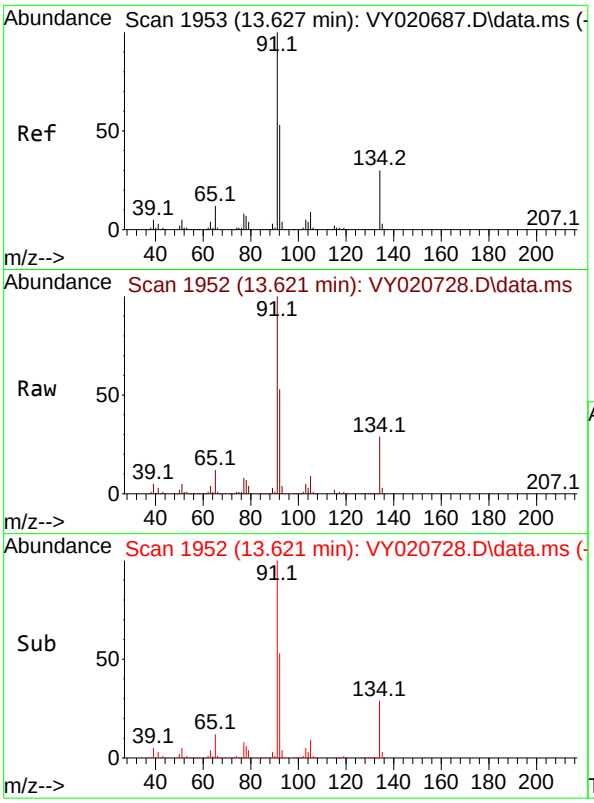




#88
1,4-Dichlorobenzene
Concen: 47.392 ug/l
RT: 13.371 min Scan# 1911
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:146 Resp: 112454

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 39.1 | 19.7 | 59.0 |
| 148 | 63.3 | 32.8 | 98.3 |



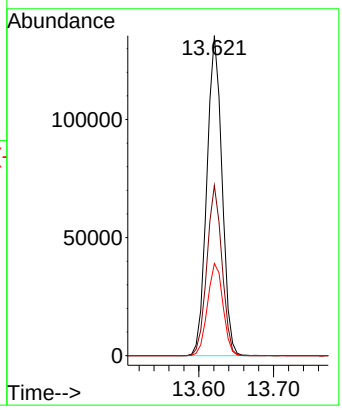


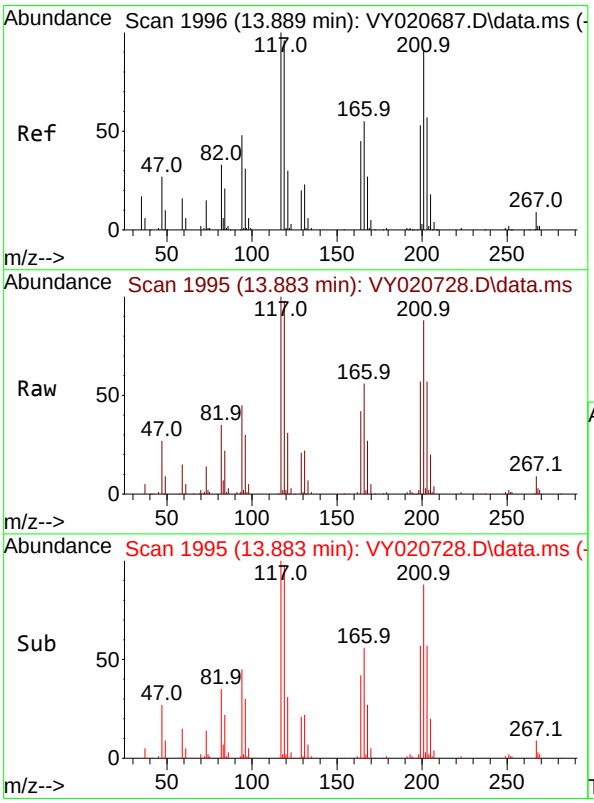

#89
n-Butylbenzene
Concen: 46.112 ug/l
RT: 13.621 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 190714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 52.8 | 26.1 | 78.2 |
| 134 | 29.4 | 14.8 | 44.4 |

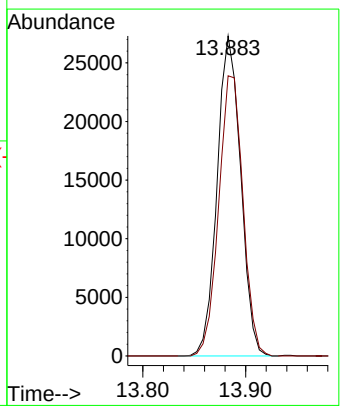


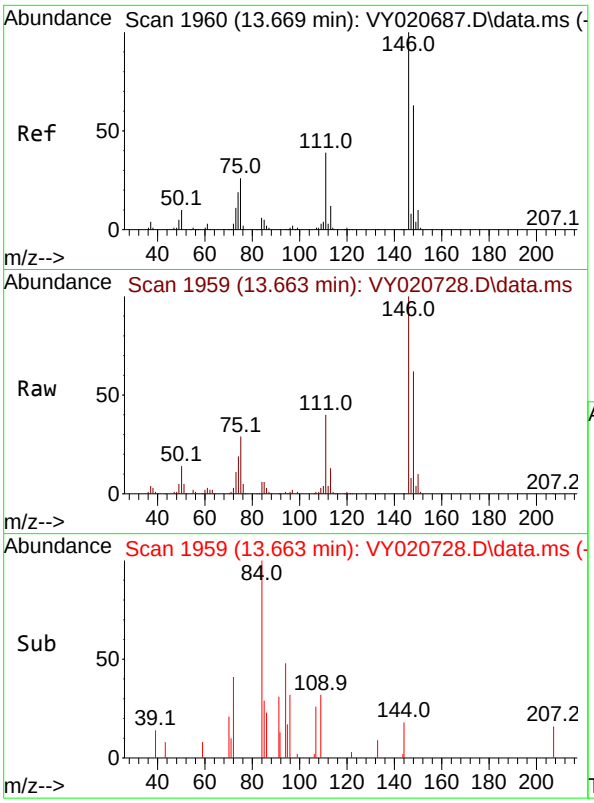




#90
Hexachloroethane
Concen: 46.011 ug/l
RT: 13.883 min Scan# 1995
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:117 Resp: 43349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 90.2 | 44.9 | 134.7 |



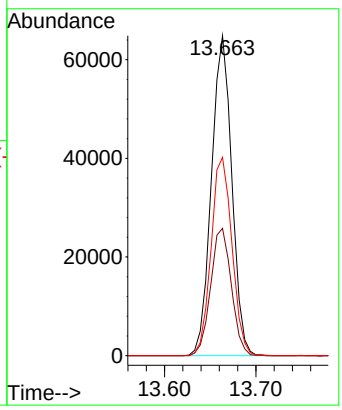


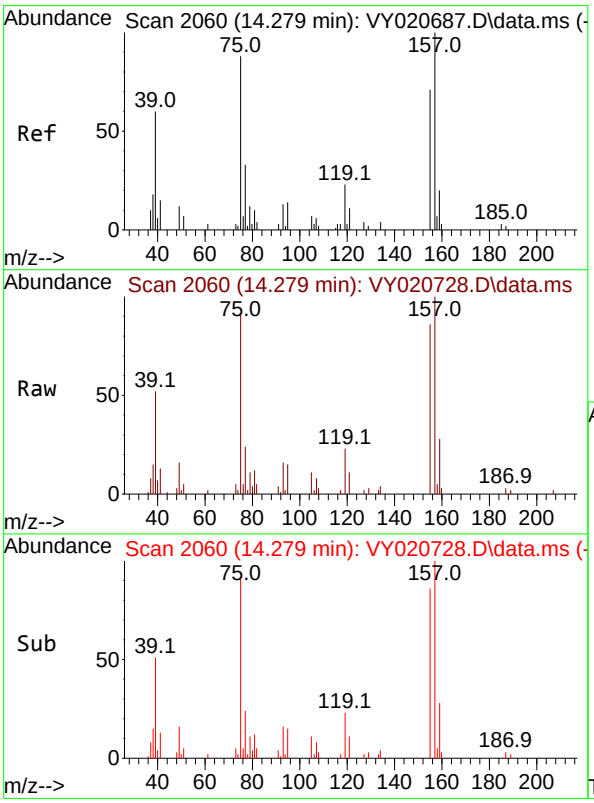

#91
1,2-Dichlorobenzene
Concen: 49.115 ug/l
RT: 13.663 min Scan# 1
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 100450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.4 | 20.3 | 60.8 |
| 148 | 63.5 | 31.9 | 95.5 |

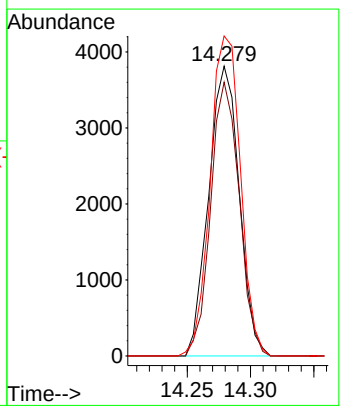


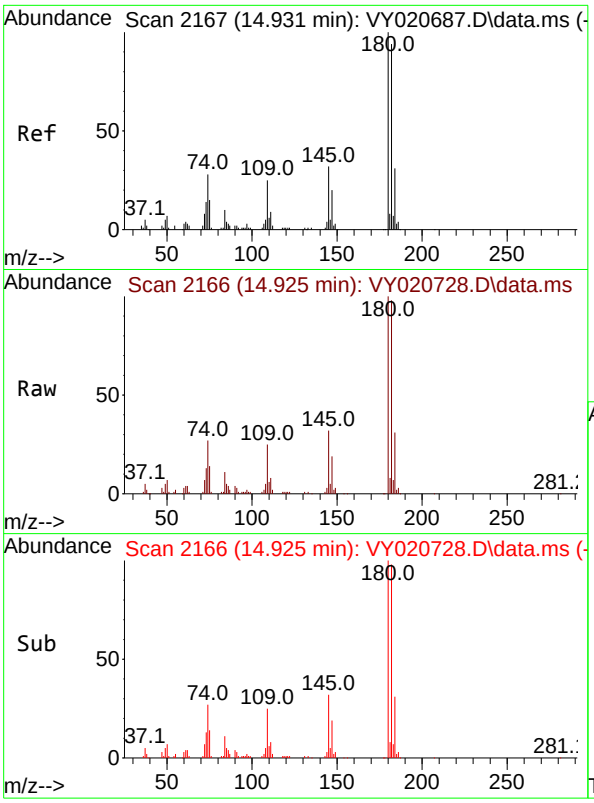




#92
1,2-Dibromo-3-Chloropropane
Concen: 48.649 ug/l
RT: 14.279 min Scan# 2060
Delta R.T. 0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion: 75 Resp: 6413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 88.1 | 43.4 | 130.2 |
| 157 | 109.1 | 58.6 | 175.7 |



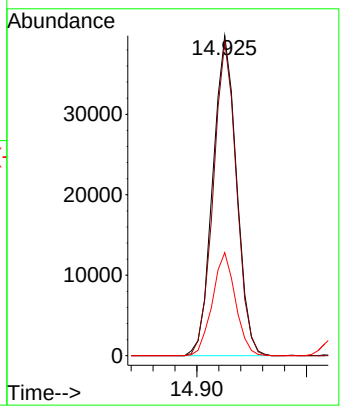


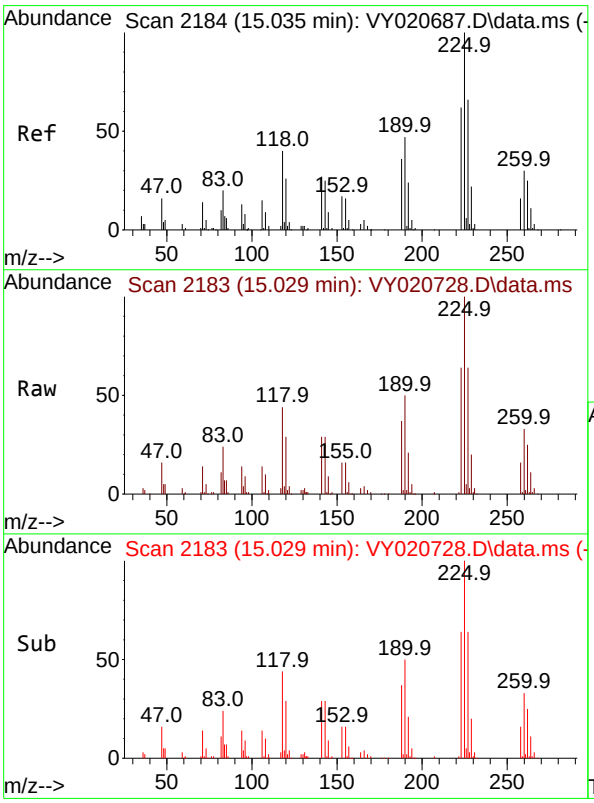

#93
1,2,4-Trichlorobenzene
Concen: 45.993 ug/l
RT: 14.925 min Scan# 21
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:180 Resp: 59790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 47.9 | 143.7 |
| 145 | 31.2 | 15.6 | 46.8 |

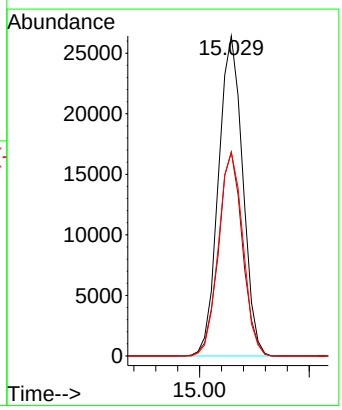


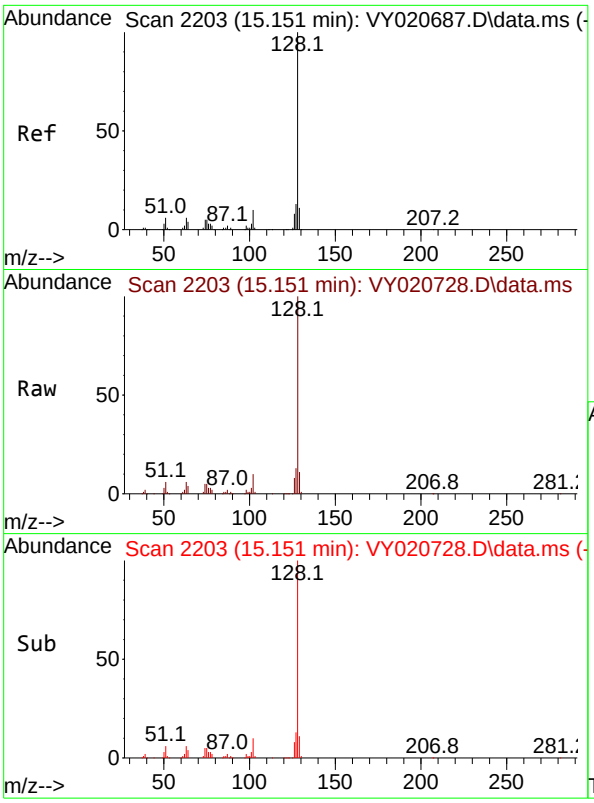




#94
Hexachlorobutadiene
Concen: 42.822 ug/l
RT: 15.029 min Scan# 2183
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:225 Resp: 40572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.0 | 31.3 | 93.8 |
| 227 | 64.1 | 32.1 | 96.5 |



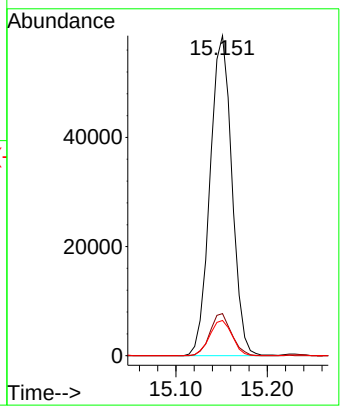


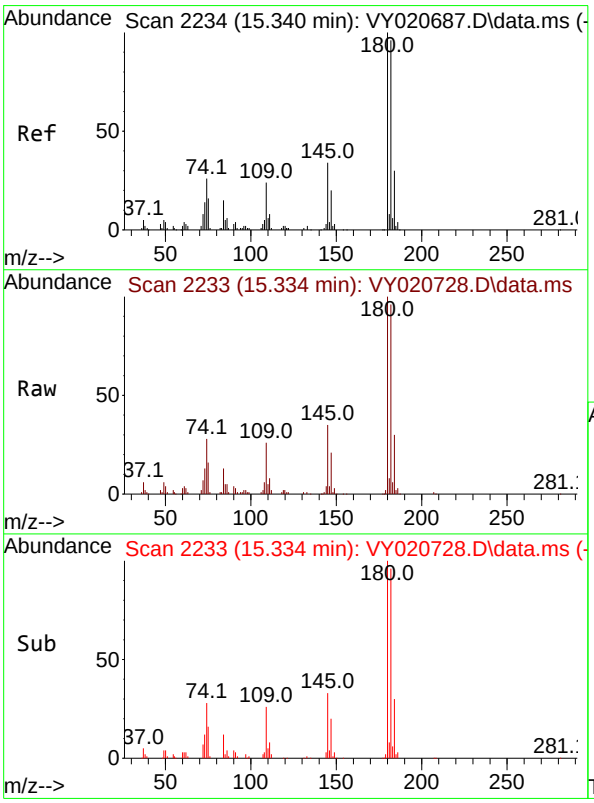

#95
Naphthalene
Concen: 46.789 ug/l
RT: 15.151 min Scan# 2
Delta R.T. -0.000 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

**Instrument :**
MSVOA_Y
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:128 Resp: 97419

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.0 | 10.7 | 16.1 |
| 129 | 11.3 | 8.6 | 12.8 |




#96
1,2,3-Trichlorobenzene
Concen: 46.500 ug/l
RT: 15.334 min Scan# 2233
Delta R.T. -0.006 min
Lab File: VY020728.D
Acq: 26 Dec 2024 19:34

Tgt Ion:180 Resp: 50331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 47.4 | 142.2 |
| 145 | 32.6 | 16.7 | 50.1 |