284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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# Cover Page

**Order ID :** Q1173

**Project ID :** CTO WE13

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

| Lab Sample Number | Client Sample Number |
|---|---|
| Q1173-01 | BP-VPB-192-TB-20250121 |
| Q1173-02 | BP-VPB-192-GW-60-62 |
| Q1173-03 | BP-VPB-192-GW-100-102 |
| Q1173-04 | BP-VPB-192-GW-140-142 |
| Q1173-05 | BP-VPB-192-GW-200-202 |
| Q1173-06 | VPB192-HYD-20250122 |

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

Signature : _____

Date: 2/17/2025

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 # Q1173**
**Test Name: VOCMS Group1**

**A. Number of Samples and Date of Receipt:**
6 Water samples were received on 01/23/2025.

**B. Parameters**
According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1 and VOCMS Group1. This data package contains results for VOCMS Group1.

**C. Analytical Techniques:**
The analysis performed on instrument MSVOA_X were done using GC column DB-624UI 20m 0.18mm 1.0 um. Cat#121-1324UIThe analysis of VOCMS Group1 was based on method 8260D.

**D. QA/ QC Samples:**
The Holding Times were met for all analysis.
The Surrogate recoveries met the acceptable criteria.
The Internal Standards Areas met the acceptable requirements.
The Retention Times were acceptable for all samples.
The RPD met criteria .

The Blank Spike for {VX0127WBS01} with File ID: VX044714.D met requirements for all samples except for Chloroethane[191%],
The Blank Spike Duplicate for {VX0127WBSD01} with File ID: VX044715.D met requirements for all samples except for Chloroethane[205%],
Above Blank Spike and Blank Spike Duplicate failing high but no positive hit in associated samples therefore no corrective action taken.

The Blank analysis did not indicate the presence of lab contamination.
The Initial Calibration met the requirements .

The Continuous Calibration File ID VX044711.D met the requirements except for Chloroethane failing high but no positive hit in associated samples therefore no corrective action taken.

The Tuning criteria met requirements.

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**E. Additional Comments:**

This Data Package has been revised due to client ID changed for sam#06 as per client request.

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.

The not QT review data is reported in the Miscellaneous.

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_____

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# 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: Q1173 MATRIX: Water

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 Initial Calibration met the requirements .<br><br>The Continuous Calibration File ID VX044711.D met the requirements except for Chloroethane failing high but no positive hit in associated samples therefore no corrective action taken. | | | ✓ |
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank: | | ✓ | |
| 7. | Surrogate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable ranges. | | | ✓ |
| 8. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable range.<br><br>The Blank Spike for {VX0127WBS01} with File ID: VX044714.D met requirements for all samples except for Chloroethane[191%],<br>The Blank Spike Duplicate for {VX0127WBSD01} with File ID: VX044715.D met requirements for all samples except for Chloroethane[205%],<br>Above Blank Spike and Blank Spike Duplicate failing high but no positive hit in associated samples therefore no corrective action taken. | | ✓ | |
| 9. | Internal Standard Area/Retention Time Shift Meet Criteria<br><br>Comments: | | | ✓ |
| 10. | Analysis Holding Time Met<br><br>If not met, list number of days exceeded for each sample: | | | ✓ |

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

NA NO YES

ADDITIONAL COMMENTS:

This Data Package has been revised due to client ID changed for sam#06 as per client request.

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.

The not QT review data is reported in the Miscellaneous.

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.

_____ _____

QA REVIEW Date

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**APPENDIX A**

**QA REVIEW GENERAL DOCUMENTATION**

**Project #:** **Q1173**

| | 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:** **SOHIL JODHANI** **Date:** **02/17/2025**

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# LAB CHRONICLE

| | | | |
|---|---|---|---|
| **OrderID:** | Q1173 | **OrderDate:** | 1/23/2025 3:29:00 PM |
| **Client:** | Tetra Tech NUS, Inc. | **Project:** | CTO WE13 |
| **Contact:** | Ernie Wu | **Location:** | N41,VOA Ref. #3 Water |

| LabID | ClientID | Matrix | Test | Method | Sample Date | Prep Date | Anal Date | Received |
|---|---|---|---|---|---|---|---|---|
| **Q1173-01** | **BP-VPB-192-TB-20250121** | **Water** | | | **01/21/25** | | | **01/23/25** |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |
| **Q1173-02** | **BP-VPB-192-GW-60-62** | **Water** | | | **01/21/25** | | | **01/23/25** |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |
| **Q1173-03** | **BP-VPB-192-GW-100-102** | **Water** | | | **01/21/25** | | | **01/23/25** |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |
| **Q1173-04** | **BP-VPB-192-GW-140-142** | **Water** | | | **01/22/25** | | | **01/23/25** |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |
| **Q1173-05** | **BP-VPB-192-GW-200-202** | **Water** | | | **01/22/25** | | | **01/23/25** |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |
| **Q1173-06** | **VPB192-HYD-20250122** | **Water** | | | **01/22/25** | | | **01/23/25** |
| | | | VOCMS Group1 | 8260-Low | | | 01/27/25 | |

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# Hit Summary Sheet
**SW-846**

**SDG No.:** Q1173

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

| Sample ID | Client ID | Matrix | Parameter | Concentration | C | MDL | LOD | RDL | Units |
|---|---|---|---|---|---|---|---|---|---|
| **Client ID:** | **BP-VPB-192-GW-60-62** | | | | | | | | |
| Q1173-02 | BP-VPB-192-GW-6 | Water | Acetone | 12.0 | | 1.40 | 3.80 | 5.00 | ug/L |
| | | | **Total Voc :** | 12.0 | | | | | |
| | | | **Total Concentration:** | 12.0 | | | | | |
| **Client ID:** | **BP-VPB-192-GW-100-102** | | | | | | | | |
| Q1173-03 | BP-VPB-192-GW-1 | Water | Acetone | 7.60 | | 1.40 | 3.80 | 5.00 | ug/L |
| Q1173-03 | BP-VPB-192-GW-1 | Water | Chloroform | 1.10 | | 0.26 | 0.50 | 1.00 | ug/L |
| Q1173-03 | BP-VPB-192-GW-1 | Water | Trichloroethene | 0.87 | J | 0.32 | 0.75 | 1.00 | ug/L |
| Q1173-03 | BP-VPB-192-GW-1 | Water | Bromodichloromethane | 0.98 | J | 0.24 | 0.50 | 1.00 | ug/L |
| Q1173-03 | BP-VPB-192-GW-1 | Water | Dibromochloromethane | 1.10 | | 0.18 | 0.50 | 1.00 | ug/L |
| | | | **Total Voc :** | 11.7 | | | | | |
| | | | **Total Concentration:** | 11.7 | | | | | |
| **Client ID:** | **BP-VPB-192-GW-140-142** | | | | | | | | |
| Q1173-04 | BP-VPB-192-GW-1 | Water | Acetone | 7.40 | | 1.40 | 3.80 | 5.00 | ug/L |
| Q1173-04 | BP-VPB-192-GW-1 | Water | Chloroform | 0.70 | J | 0.26 | 0.50 | 1.00 | ug/L |
| Q1173-04 | BP-VPB-192-GW-1 | Water | Benzene | 6.50 | | 0.16 | 0.50 | 1.00 | ug/L |
| Q1173-04 | BP-VPB-192-GW-1 | Water | Toluene | 0.96 | J | 0.18 | 0.50 | 1.00 | ug/L |
| | | | **Total Voc :** | 15.6 | | | | | |
| | | | **Total Concentration:** | 15.6 | | | | | |
| **Client ID:** | **BP-VPB-192-GW-200-202** | | | | | | | | |
| Q1173-05 | BP-VPB-192-GW-2 | Water | Acetone | 7.10 | | 1.40 | 3.80 | 5.00 | ug/L |
| Q1173-05 | BP-VPB-192-GW-2 | Water | Chloroform | 0.68 | J | 0.26 | 0.50 | 1.00 | ug/L |
| Q1173-05 | BP-VPB-192-GW-2 | Water | Trichloroethene | 1.80 | | 0.32 | 0.75 | 1.00 | ug/L |
| | | | **Total Voc :** | 9.58 | | | | | |
| | | | **Total Concentration:** | 9.58 | | | | | |
| **Client ID:** | **VPB192-HYD-20250122** | | | | | | | | |
| Q1173-06 | VPB192-HYD-2025 | Water | Acetone | 1.60 | J | 1.40 | 3.80 | 5.00 | ug/L |
| Q1173-06 | VPB192-HYD-2025 | Water | Dibromochloromethane | 1.30 | | 0.18 | 0.50 | 1.00 | ug/L |
| | | | **Total Voc :** | 2.90 | | | | | |
| | | | **Total Concentration:** | 2.90 | | | | | |

# QC SUMMARY

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# Surrogate Summary

**SDG No.:** Q1173

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

**Analytical Method:** SW8260-Low

| Lab Sample ID | Client ID | Parameter | Spike | Result | RecoveryQual | Limits Low | Limits High |
|---|---|---|---|---|---|---|---|
| Q1173-01 | BP-VPB-192-TB-20250121 | 1,2-Dichloroethane-d4 | 50 | 46.8 | 94 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 50.7 | 101 | 80 | 119 |
| | | Toluene-d8 | 50 | 55.2 | 110 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 54.2 | 108 | 85 | 114 |
| Q1173-02 | BP-VPB-192-GW-60-62 | 1,2-Dichloroethane-d4 | 50 | 49.0 | 98 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 51.4 | 103 | 80 | 119 |
| | | Toluene-d8 | 50 | 55.7 | 111 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 52.2 | 104 | 85 | 114 |
| Q1173-03 | BP-VPB-192-GW-100-102 | 1,2-Dichloroethane-d4 | 50 | 47.9 | 96 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 50.8 | 102 | 80 | 119 |
| | | Toluene-d8 | 50 | 55.2 | 110 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 52.4 | 105 | 85 | 114 |
| Q1173-04 | BP-VPB-192-GW-140-142 | 1,2-Dichloroethane-d4 | 50 | 48.7 | 97 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 51.2 | 102 | 80 | 119 |
| | | Toluene-d8 | 50 | 54.9 | 110 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 50.9 | 102 | 85 | 114 |
| Q1173-05 | BP-VPB-192-GW-200-202 | 1,2-Dichloroethane-d4 | 50 | 47.8 | 96 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 50.8 | 102 | 80 | 119 |
| | | Toluene-d8 | 50 | 54.5 | 109 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 53.6 | 107 | 85 | 114 |
| Q1173-06 | VPB192-HYD-20250122 | 1,2-Dichloroethane-d4 | 50 | 49.6 | 99 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 49.8 | 100 | 80 | 119 |
| | | Toluene-d8 | 50 | 54.4 | 109 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 53.6 | 107 | 85 | 114 |
| VX0127WBL01 | VX0127WBL01 | 1,2-Dichloroethane-d4 | 50 | 47.7 | 95 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 50.5 | 101 | 80 | 119 |
| | | Toluene-d8 | 50 | 54.6 | 109 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 56.1 | 112 | 85 | 114 |
| VX0127WBS01 | VX0127WBS01 | 1,2-Dichloroethane-d4 | 50 | 41.6 | 83 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 45.8 | 92 | 80 | 119 |
| | | Toluene-d8 | 50 | 48.4 | 97 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 46.8 | 94 | 85 | 114 |
| VX0127WBSD0 | VX0127WBSD01 | 1,2-Dichloroethane-d4 | 50 | 42.1 | 84 | 81 | 118 |
| | | Dibromofluoromethane | 50 | 45.1 | 90 | 80 | 119 |
| | | Toluene-d8 | 50 | 48.1 | 96 | 89 | 112 |
| | | 4-Bromofluorobenzene | 50 | 46.9 | 94 | 85 | 114 |

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**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** Q1173

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

**Analytical Method:** SW8260-Low **Datafile :** VX044714.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0127WBS01 | Chloromethane | 20 | 19.0 | ug/L | 95 | | | 50 | 139 | |
| | Vinyl chloride | 20 | 17.3 | ug/L | 86 | | | 58 | 137 | |
| | Bromomethane | 20 | 18.9 | ug/L | 95 | | | 53 | 141 | |
| | Chloroethane | 20 | 38.1 | ug/L | 191 | | * | 60 | 138 | |
| | Trichlorofluoromethane | 20 | 16.7 | ug/L | 84 | | | 65 | 141 | |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 18.4 | ug/L | 92 | | | 70 | 136 | |
| | 1,1-Dichloroethene | 20 | 18.6 | ug/L | 93 | | | 71 | 131 | |
| | Acetone | 100 | 80.8 | ug/L | 81 | | | 39 | 160 | |
| | Carbon disulfide | 20 | 18.4 | ug/L | 92 | | | 64 | 133 | |
| | Methyl tert-butyl Ether | 20 | 17.2 | ug/L | 86 | | | 71 | 124 | |
| | Methylene Chloride | 20 | 17.5 | ug/L | 88 | | | 74 | 124 | |
| | trans-1,2-Dichloroethene | 20 | 17.5 | ug/L | 88 | | | 75 | 124 | |
| | 1,1-Dichloroethane | 20 | 18.0 | ug/L | 90 | | | 77 | 125 | |
| | 2-Butanone | 100 | 90.1 | ug/L | 90 | | | 56 | 143 | |
| | Carbon Tetrachloride | 20 | 16.7 | ug/L | 84 | | | 72 | 136 | |
| | cis-1,2-Dichloroethene | 20 | 17.4 | ug/L | 87 | | | 78 | 123 | |
| | Chloroform | 20 | 17.3 | ug/L | 86 | | | 79 | 124 | |
| | 1,1,1-Trichloroethane | 20 | 16.1 | ug/L | 81 | | | 74 | 131 | |
| | Methylcyclohexane | 20 | 18.3 | ug/L | 92 | | | 72 | 132 | |
| | Benzene | 20 | 18.5 | ug/L | 93 | | | 79 | 120 | |
| | 1,2-Dichloroethane | 20 | 16.3 | ug/L | 81 | | | 73 | 128 | |
| | Trichloroethene | 20 | 17.5 | ug/L | 88 | | | 79 | 123 | |
| | 1,2-Dichloropropane | 20 | 18.6 | ug/L | 93 | | | 78 | 122 | |
| | Bromodichloromethane | 20 | 17.0 | ug/L | 85 | | | 79 | 125 | |
| | 4-Methyl-2-Pentanone | 100 | 95.9 | ug/L | 96 | | | 67 | 130 | |
| | Toluene | 20 | 18.3 | ug/L | 92 | | | 80 | 121 | |
| | t-1,3-Dichloropropene | 20 | 17.2 | ug/L | 86 | | | 73 | 127 | |
| | cis-1,3-Dichloropropene | 20 | 17.5 | ug/L | 88 | | | 75 | 124 | |
| | 1,1,2-Trichloroethane | 20 | 18.3 | ug/L | 92 | | | 80 | 119 | |
| | 2-Hexanone | 100 | 95.6 | ug/L | 96 | | | 57 | 139 | |
| | Dibromochloromethane | 20 | 17.2 | ug/L | 86 | | | 74 | 126 | |
| | Tetrachloroethene | 20 | 18.7 | ug/L | 94 | | | 74 | 129 | |
| | Chlorobenzene | 20 | 18.6 | ug/L | 93 | | | 82 | 118 | |
| | Ethyl Benzene | 20 | 18.6 | ug/L | 93 | | | 79 | 121 | |
| | m/p-Xylenes | 40 | 38.0 | ug/L | 95 | | | 80 | 121 | |
| | o-Xylene | 20 | 18.6 | ug/L | 93 | | | 78 | 122 | |
| | Styrene | 20 | 19.2 | ug/L | 96 | | | 78 | 123 | |
| | Bromoform | 20 | 17.7 | ug/L | 89 | | | 66 | 130 | |
| | Isopropylbenzene | 20 | 17.8 | ug/L | 89 | | | 72 | 131 | |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.0 | ug/L | 90 | | | 71 | 121 | |
| | 1,3-Dichlorobenzene | 20 | 18.4 | ug/L | 92 | | | 80 | 119 | |
| | 1,4-Dichlorobenzene | 20 | 18.2 | ug/L | 91 | | | 79 | 118 | |
| | 1,2-Dichlorobenzene | 20 | 18.1 | ug/L | 91 | | | 80 | 119 | |

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**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

**SW-846**

**SDG No.:** Q1173

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

**Analytical Method:** SW8260-Low **Datafile :** VX044715.D

| Lab Sample ID | Parameter | Spike | Result | Unit | Rec | RPD | Qual | Limits Low | Limits High | RPD |
|---|---|---|---|---|---|---|---|---|---|---|
| VX0127WBSD01 | Chloromethane | 20 | 19.1 | ug/L | 96 | 1 | | 50 | 139 | 20 |
| | Vinyl chloride | 20 | 17.7 | ug/L | 89 | 3 | | 58 | 137 | 20 |
| | Bromomethane | 20 | 19.9 | ug/L | 100 | 5 | | 53 | 141 | 20 |
| | Chloroethane | 20 | 41.0 | ug/L | 205 | 7 | * | 60 | 138 | 20 |
| | Trichlorofluoromethane | 20 | 17.6 | ug/L | 88 | 5 | | 65 | 141 | 20 |
| | 1,1,2-Trichlorotrifluoroethane | 20 | 19.0 | ug/L | 95 | 3 | | 70 | 136 | 20 |
| | 1,1-Dichloroethene | 20 | 19.2 | ug/L | 96 | 3 | | 71 | 131 | 20 |
| | Acetone | 100 | 87.8 | ug/L | 88 | 8 | | 39 | 160 | 20 |
| | Carbon disulfide | 20 | 19.3 | ug/L | 97 | 5 | | 64 | 133 | 20 |
| | Methyl tert-butyl Ether | 20 | 18.0 | ug/L | 90 | 5 | | 71 | 124 | 20 |
| | Methylene Chloride | 20 | 18.2 | ug/L | 91 | 3 | | 74 | 124 | 20 |
| | trans-1,2-Dichloroethene | 20 | 18.4 | ug/L | 92 | 4 | | 75 | 124 | 20 |
| | 1,1-Dichloroethane | 20 | 18.6 | ug/L | 93 | 3 | | 77 | 125 | 20 |
| | 2-Butanone | 100 | 98.0 | ug/L | 98 | 9 | | 56 | 143 | 20 |
| | Carbon Tetrachloride | 20 | 17.2 | ug/L | 86 | 2 | | 72 | 136 | 20 |
| | cis-1,2-Dichloroethene | 20 | 18.0 | ug/L | 90 | 3 | | 78 | 123 | 20 |
| | Chloroform | 20 | 18.0 | ug/L | 90 | 5 | | 79 | 124 | 20 |
| | 1,1,1-Trichloroethane | 20 | 16.7 | ug/L | 84 | 4 | | 74 | 131 | 20 |
| | Methylcyclohexane | 20 | 19.4 | ug/L | 97 | 5 | | 72 | 132 | 20 |
| | Benzene | 20 | 19.2 | ug/L | 96 | 3 | | 79 | 120 | 20 |
| | 1,2-Dichloroethane | 20 | 17.4 | ug/L | 87 | 7 | | 73 | 128 | 20 |
| | Trichloroethene | 20 | 18.5 | ug/L | 93 | 6 | | 79 | 123 | 20 |
| | 1,2-Dichloropropane | 20 | 19.1 | ug/L | 96 | 3 | | 78 | 122 | 20 |
| | Bromodichloromethane | 20 | 17.4 | ug/L | 87 | 2 | | 79 | 125 | 20 |
| | 4-Methyl-2-Pentanone | 100 | 100 | ug/L | 100 | 4 | | 67 | 130 | 20 |
| | Toluene | 20 | 19.2 | ug/L | 96 | 4 | | 80 | 121 | 20 |
| | t-1,3-Dichloropropene | 20 | 18.0 | ug/L | 90 | 5 | | 73 | 127 | 20 |
| | cis-1,3-Dichloropropene | 20 | 18.4 | ug/L | 92 | 4 | | 75 | 124 | 20 |
| | 1,1,2-Trichloroethane | 20 | 18.9 | ug/L | 95 | 3 | | 80 | 119 | 20 |
| | 2-Hexanone | 100 | 99.7 | ug/L | 100 | 4 | | 57 | 139 | 20 |
| | Dibromochloromethane | 20 | 18.2 | ug/L | 91 | 6 | | 74 | 126 | 20 |
| | Tetrachloroethene | 20 | 18.7 | ug/L | 94 | 0 | | 74 | 129 | 20 |
| | Chlorobenzene | 20 | 18.7 | ug/L | 94 | 1 | | 82 | 118 | 20 |
| | Ethyl Benzene | 20 | 18.8 | ug/L | 94 | 1 | | 79 | 121 | 20 |
| | m/p-Xylenes | 40 | 38.1 | ug/L | 95 | 0 | | 80 | 121 | 20 |
| | o-Xylene | 20 | 18.9 | ug/L | 95 | 2 | | 78 | 122 | 20 |
| | Styrene | 20 | 19.6 | ug/L | 98 | 2 | | 78 | 123 | 20 |
| | Bromoform | 20 | 17.8 | ug/L | 89 | 0 | | 66 | 130 | 20 |
| | Isopropylbenzene | 20 | 18.4 | ug/L | 92 | 3 | | 72 | 131 | 20 |
| | 1,1,2,2-Tetrachloroethane | 20 | 18.3 | ug/L | 92 | 2 | | 71 | 121 | 20 |
| | 1,3-Dichlorobenzene | 20 | 18.8 | ug/L | 94 | 2 | | 80 | 119 | 20 |
| | 1,4-Dichlorobenzene | 20 | 18.7 | ug/L | 94 | 3 | | 79 | 118 | 20 |
| | 1,2-Dichlorobenzene | 20 | 18.6 | ug/L | 93 | 2 | | 80 | 119 | 20 |

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# VOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

VX0127WBL01

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: VX044713.D Lab Sample ID: VX0127WBL01

Date Analyzed: 01/27/2025 Time Analyzed: 11:01

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

Instrument ID: MSVOA_X

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

| EPA SAMPLE NO. | LAB SAMPLE ID | LAB FILE ID | DATE ANALYZED |
|---|---|---|---|
| VX0127WBS01 | VX0127WBS01 | VX044714.D | 01/27/2025 |
| VX0127WBSD01 | VX0127WBSD01 | VX044715.D | 01/27/2025 |
| VPB192-HYD-20250122 | Q1173-06 | VX044716.D | 01/27/2025 |
| BP-VPB-192-TB-20250121 | Q1173-01 | VX044717.D | 01/27/2025 |
| BP-VPB-192-GW-60-62 | Q1173-02 | VX044718.D | 01/27/2025 |
| BP-VPB-192-GW-100-102 | Q1173-03 | VX044719.D | 01/27/2025 |
| BP-VPB-192-GW-140-142 | Q1173-04 | VX044720.D | 01/27/2025 |
| BP-VPB-192-GW-200-202 | Q1173-05 | VX044721.D | 01/27/2025 |

COMMENTS:

Raw Data: **VX044647.D**

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

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: VX044647.D BFB Injection Date: 01/15/2025

Instrument ID: MSVOA_X BFB Injection Time: 09:30

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 18.6 |
| 75 | 30.0 - 60.0% of mass 95 | 50.2 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.5 |
| 173 | Less than 2.0% of mass 174 | 0.6 ( 0.9 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 67.1 |
| 175 | 5.0 - 9.0% of mass 174 | 4.9 ( 7.3 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 64.4 ( 96 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.3 ( 6.8 ) 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 |
|---|---|---|---|---|
| VSTDICC001 | VSTDICC001 | VX044648.D | 01/15/2025 | 10:31 |
| VSTDICC005 | VSTDICC005 | VX044649.D | 01/15/2025 | 11:17 |
| VSTDICC020 | VSTDICC020 | VX044650.D | 01/15/2025 | 11:40 |
| VSTDICCC050 | VSTDICCC050 | VX044651.D | 01/15/2025 | 12:02 |
| VSTDICC100 | VSTDICC100 | VX044652.D | 01/15/2025 | 13:14 |
| VSTDICC150 | VSTDICC150 | VX044653.D | 01/15/2025 | 13:37 |

Raw Data: **VX044710.D**

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

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: VX044710.D BFB Injection Date: 01/27/2025

Instrument ID: MSVOA_X BFB Injection Time: 08:47

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: Y/N N

| m/e | ION ABUNDANCE CRITERIA | % RELATIVE ABUNDANCE |
|---|---|---|
| 50 | 15.0 - 40.0% of mass 95 | 19.2 |
| 75 | 30.0 - 60.0% of mass 95 | 49.7 |
| 95 | Base Peak, 100% relative abundance | 100 |
| 96 | 5.0 - 9.0% of mass 95 | 6.6 |
| 173 | Less than 2.0% of mass 174 | 0.4 ( 0.7 ) 1 |
| 174 | 50.0 - 100.0% of mass 95 | 65.4 |
| 175 | 5.0 - 9.0% of mass 174 | 4.9 ( 7.4 ) 1 |
| 176 | 95.0 - 101.0% of mass 174 | 63 ( 96.3 ) 1 |
| 177 | 5.0 - 9.0% of mass 176 | 4.5 ( 7.1 ) 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 | VX044711.D | 01/27/2025 | 10:08 |
| VX0127WBL01 | VX0127WBL01 | VX044713.D | 01/27/2025 | 11:01 |
| VX0127WBS01 | VX0127WBS01 | VX044714.D | 01/27/2025 | 11:24 |
| VX0127WBSD01 | VX0127WBSD01 | VX044715.D | 01/27/2025 | 11:52 |
| VPB192-HYD-20250122 | Q1173-06 | VX044716.D | 01/27/2025 | 12:15 |
| BP-VPB-192-TB-20250121 | Q1173-01 | VX044717.D | 01/27/2025 | 12:38 |
| BP-VPB-192-GW-60-62 | Q1173-02 | VX044718.D | 01/27/2025 | 13:01 |
| BP-VPB-192-GW-100-102 | Q1173-03 | VX044719.D | 01/27/2025 | 13:24 |
| BP-VPB-192-GW-140-142 | Q1173-04 | VX044720.D | 01/27/2025 | 13:47 |
| BP-VPB-192-GW-200-202 | Q1173-05 | VX044721.D | 01/27/2025 | 14:09 |
| VSTDCCC050EC | VSTDCCC050 | VX044734.D | 01/27/2025 | 19:09 |

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# VOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: VX044711.D Date Analyzed: 01/27/2025

Instrument ID: MSVOA_X Time Analyzed: 10:08

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS1 AREA # | RT # | IS2 AREA # | RT # | IS3 AREA # | RT # |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 172369 | 5.54 | 318376 | 6.75 | 277935 | 10.05 |
| UPPER LIMIT | 344738 | 6.037 | 636752 | 7.251 | 555870 | 10.549 |
| LOWER LIMIT | 86184.5 | 5.037 | 159188 | 6.251 | 138968 | 9.549 |
| EPA SAMPLE NO. | | | | | | |
| BP-VPB-192-TB-20250121 | 154291 | 5.54 | 301435 | 6.76 | 272981 | 10.05 |
| BP-VPB-192-GW-60-62 | 145080 | 5.54 | 291470 | 6.76 | 260564 | 10.05 |
| BP-VPB-192-GW-100-102 | 156971 | 5.54 | 304234 | 6.76 | 268221 | 10.05 |
| BP-VPB-192-GW-140-142 | 153813 | 5.54 | 313071 | 6.76 | 272691 | 10.05 |
| BP-VPB-192-GW-200-202 | 143949 | 5.54 | 289107 | 6.76 | 257515 | 10.05 |
| VPB192-HYD-20250122 | 142665 | 5.54 | 295520 | 6.76 | 265204 | 10.05 |
| VX0127WBL01 | 158308 | 5.54 | 315173 | 6.76 | 280517 | 10.05 |
| VX0127WBS01 | 194501 | 5.54 | 349402 | 6.76 | 294902 | 10.05 |
| VX0127WBSD01 | 181106 | 5.54 | 329948 | 6.75 | 287428 | 10.05 |

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.: Q1173 SAS No.: Q1173 SDG NO.: Q1173

Lab File ID: VX044711.D Date Analyzed: 01/27/2025

Instrument ID: MSVOA_X Time Analyzed: 10:08

GC Column: DB-624UI ID: 0.18 (mm) Heated Purge: (Y/N) N

| | IS4 AREA # | RT # | | | | |
|---|---|---|---|---|---|---|
| 12 HOUR STD | 123095 | 12.018 | | | | |
| UPPER LIMIT | 246190 | 12.518 | | | | |
| LOWER LIMIT | 61547.5 | 11.518 | | | | |
| EPA SAMPLE NO. | | | | | | |
| BP-VPB-192-TB-20250121 | 115657 | 12.02 | | | | |
| BP-VPB-192-GW-60-62 | 111378 | 12.02 | | | | |
| BP-VPB-192-GW-100-102 | 115943 | 12.02 | | | | |
| BP-VPB-192-GW-140-142 | 114579 | 12.02 | | | | |
| BP-VPB-192-GW-200-202 | 112964 | 12.02 | | | | |
| VPB192-HYD-20250122 | 114051 | 12.02 | | | | |
| VX0127WBL01 | 124517 | 12.02 | | | | |
| VX0127WBS01 | 132232 | 12.02 | | | | |
| VX0127WBSD01 | 125692 | 12.02 | | | | |

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

Raw Data: **VX044717.D**

Alliance TECHNICAL GROUP
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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-TB-20250121 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044717.D | 1 | | 01/27/25 12:38 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 74-87-3 | Chloromethane | 0.50 | U | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.75 | U | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 3.80 | U | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.75 | UQ | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U | 0.34 | 0.50 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.75 | U | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 3.80 | U | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.50 | U | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U | 0.23 | 0.50 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.75 | U | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.50 | U | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/L |

Raw Data: **VX044717.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-TB-20250121 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044717.D | 1 | | 01/27/25 12:38 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 1.00 | U | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.50 | U | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 46.8 | | 81 - 118 | | 94% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.7 | | 80 - 119 | | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 55.2 | | 89 - 112 | | 110% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 54.2 | | 85 - 114 | | 108% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 154000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 301000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 273000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 116000 | 12.018 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | N.D | | | | | |

Raw Data: **VX044717.D**

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# Report of Analysis

| | | | |
|---|---|---|---|
| Client: | Tetra Tech NUS, Inc. | Date Collected: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-TB-20250121 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044717.D | 1 | | 01/27/25 12:38 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

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

Sample Results: **VX044717.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044717.D
Acq On : 27 Jan 2025 12:38
Operator : JC/MD
Sample : Q1173-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-TB-20250121

Quant Time: Jan 28 04:10:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

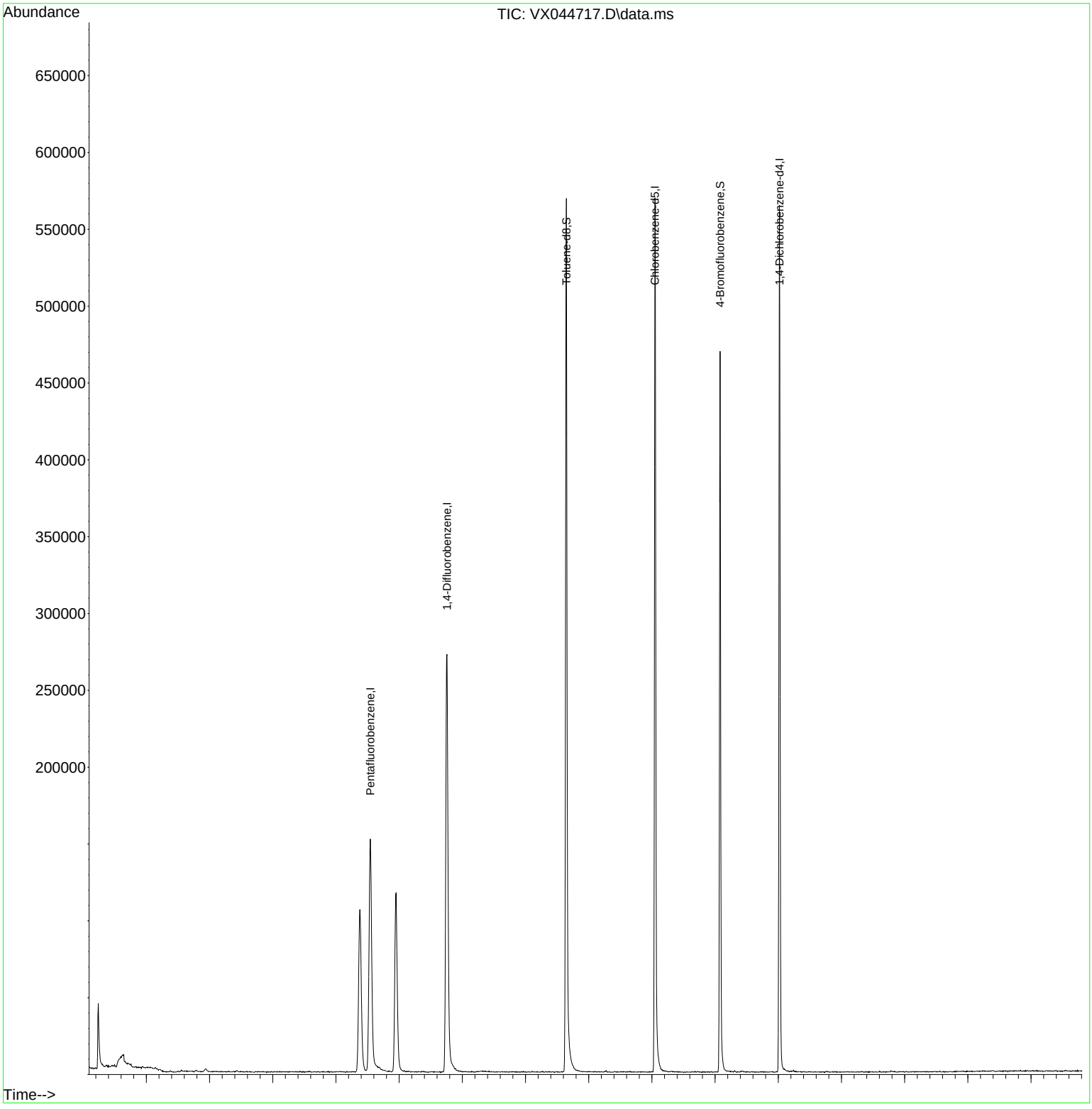
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 154291 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 301435 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 272981 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 115657 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 108974 | 46.792 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 93.580% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 97156 | 50.735 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.460% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 368668 | 55.214 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 110.420% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 135005 | 54.237 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 108.480% | | | |
| Target Compounds | | | | | | Qvalue |

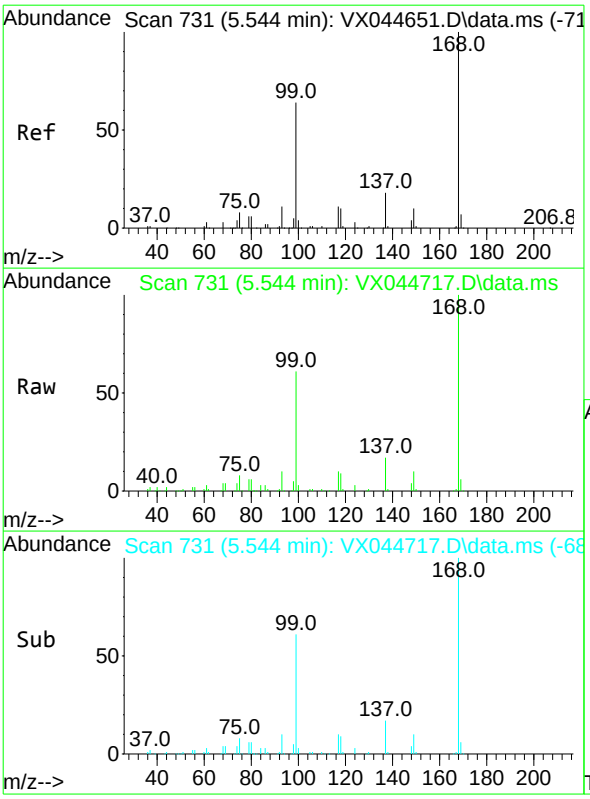
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044717.D
Acq On : 27 Jan 2025 12:38
Operator : JC/MD
Sample : Q1173-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-TB-20250121

Quant Time: Jan 28 04:10:43 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



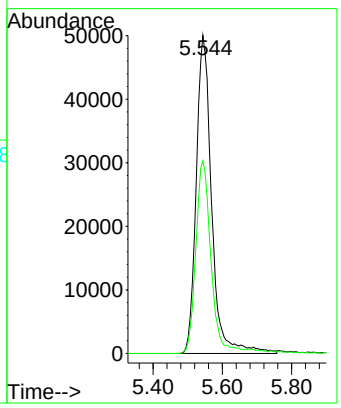


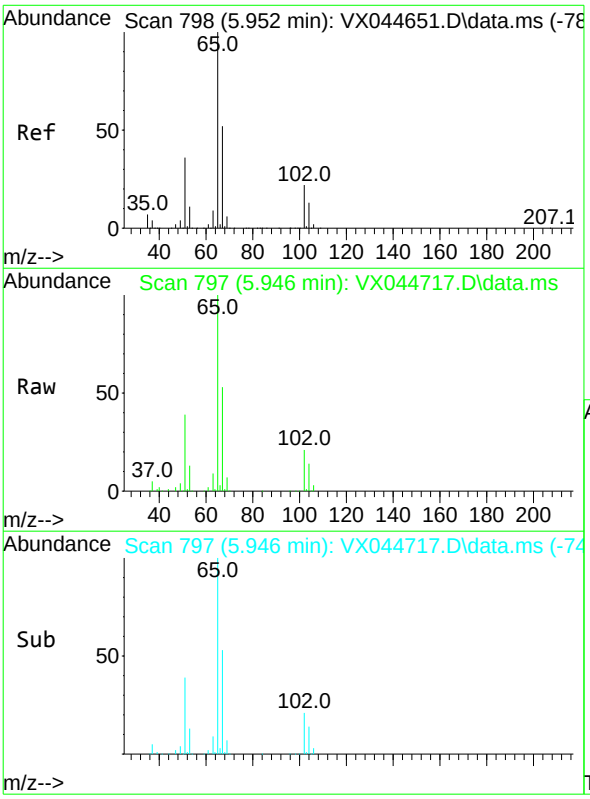

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044717.D
Acq: 27 Jan 2025 12:38

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-TB-20250121

Tgt Ion:168 Resp: 154291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.6 | 51.1 | 76.7 |

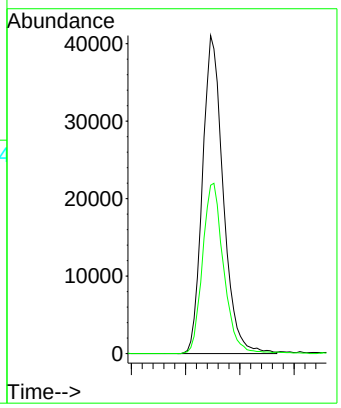


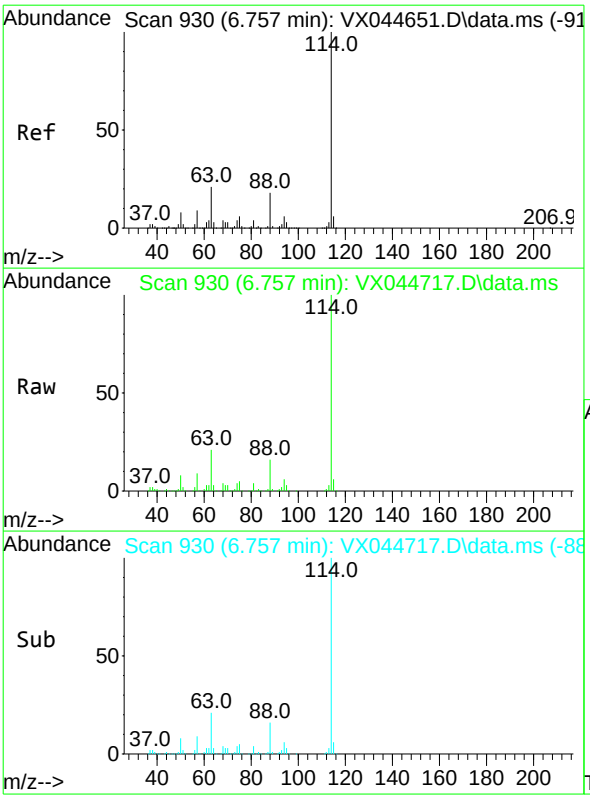




#33
1,2-Dichloroethane-d4
Concen: 46.792 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044717.D
Acq: 27 Jan 2025 12:38

Tgt Ion: 65 Resp: 108974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.4 | 0.0 | 103.4 |



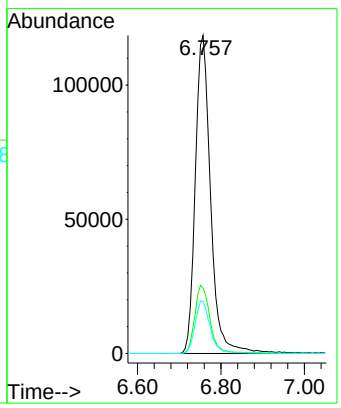


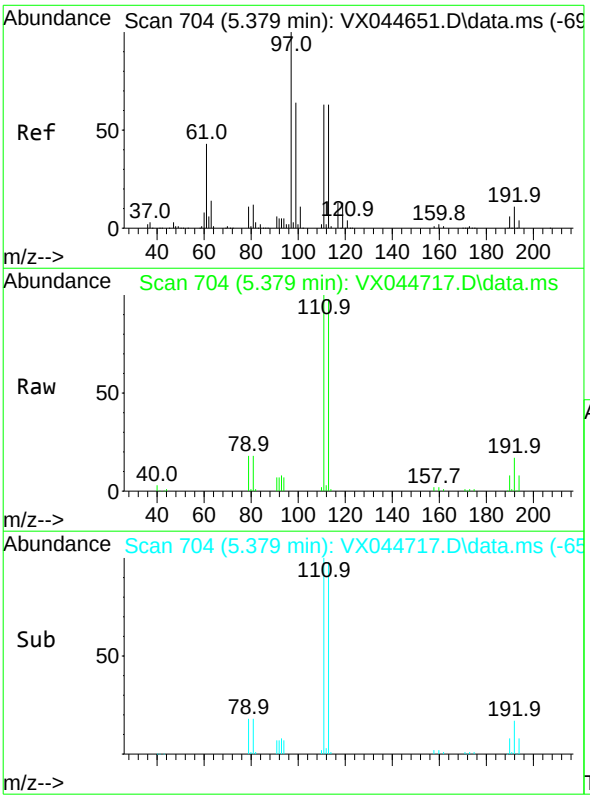

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX044717.D
Acq: 27 Jan 2025 12:38

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-TB-20250121

Tgt Ion:114 Resp: 301435

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.6 | 0.0 | 43.0 |
| 88 | 16.4 | 0.0 | 35.4 |

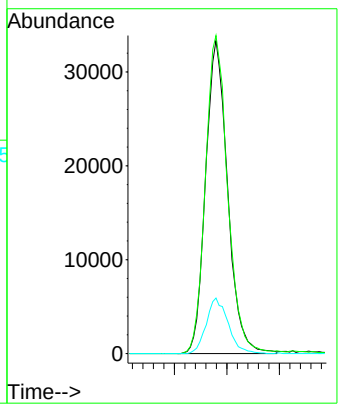


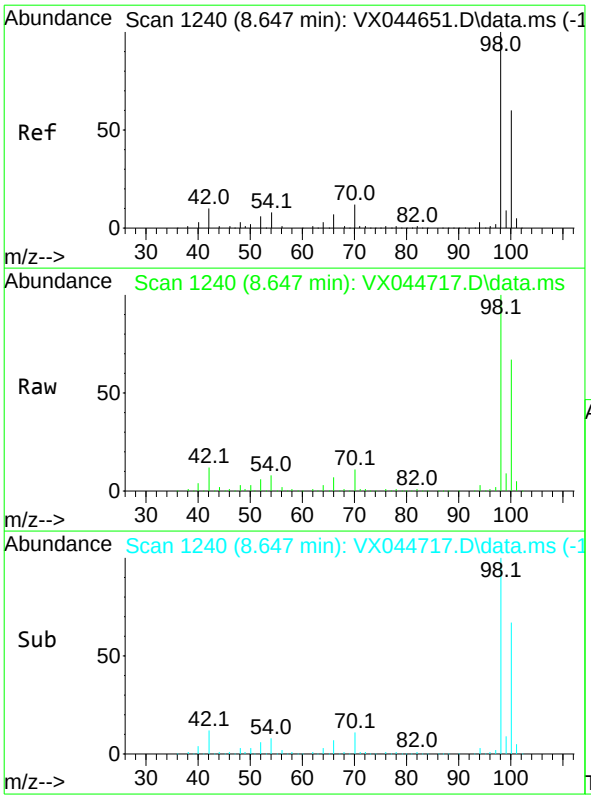




#35
Dibromofluoromethane
Concen: 50.735 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044717.D
Acq: 27 Jan 2025 12:38

Tgt Ion:113 Resp: 97156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 81.6 | 122.4 |
| 192 | 17.6 | 14.4 | 21.6 |



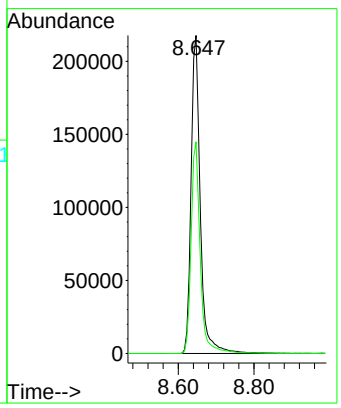


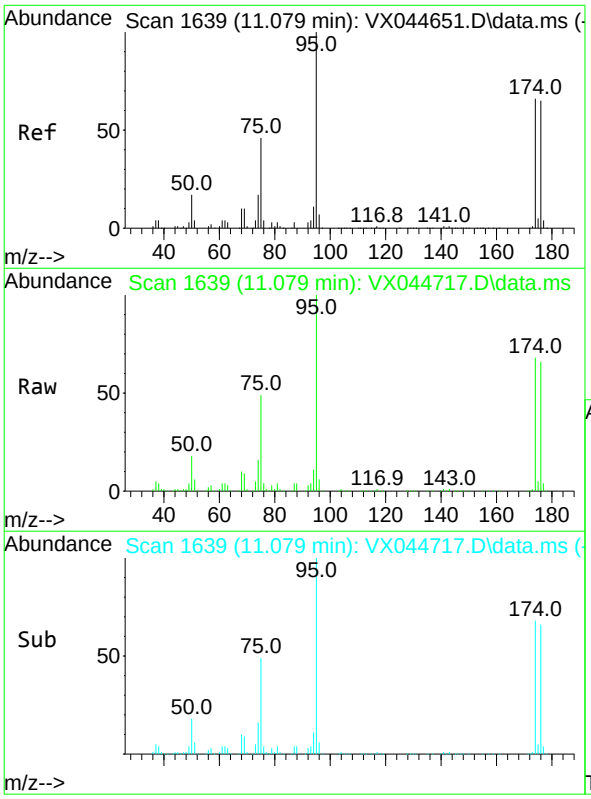

#50
Toluene-d8
Concen: 55.214 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044717.D
Acq: 27 Jan 2025 12:38

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-TB-20250121

Tgt Ion: 98 Resp: 368668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.0 | 53.2 | 79.8 |

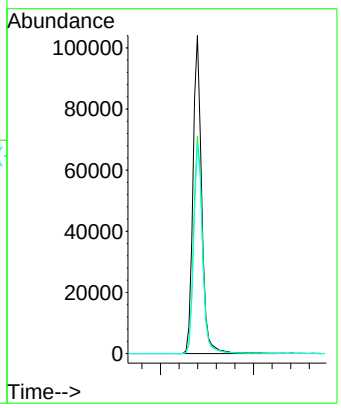


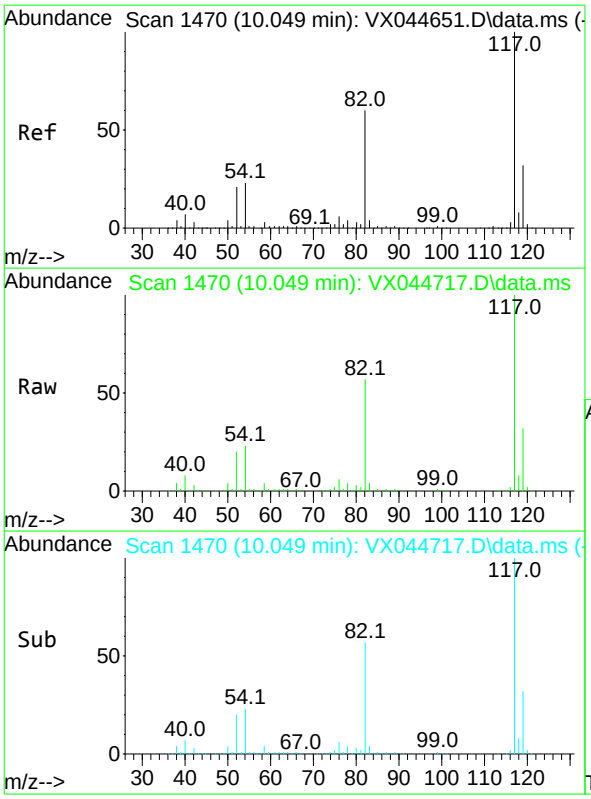




#62
4-Bromofluorobenzene
Concen: 54.237 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044717.D
Acq: 27 Jan 2025 12:38

Tgt Ion: 95 Resp: 135005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 70.1 | 0.0 | 133.0 |
| 176 | 66.8 | 0.0 | 129.4 |



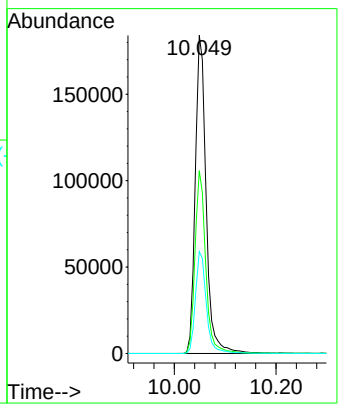


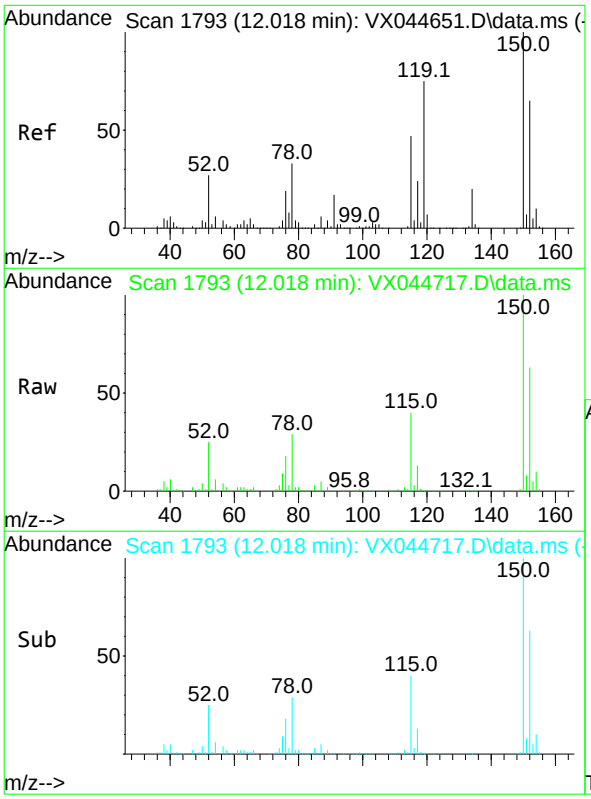

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044717.D
Acq: 27 Jan 2025 12:38

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-TB-20250121

Tgt Ion:117 Resp: 272981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.5 | 47.6 | 71.4 |
| 119 | 32.0 | 25.4 | 38.2 |

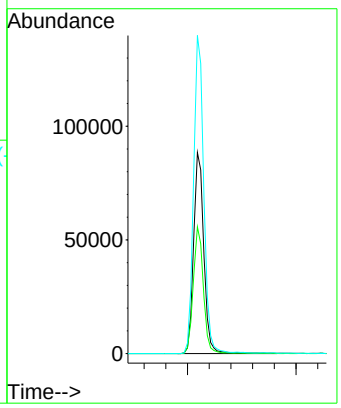



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044717.D
Acq: 27 Jan 2025 12:38

Tgt Ion:152 Resp: 115657

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.5 | 43.8 | 131.4 |
| 150 | 157.0 | 0.0 | 347.8 |



Sample Results: **VX044717.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044717.D
Acq On : 27 Jan 2025 12:38
Operator : JC/MD
Sample : Q1173-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-TB-20250121

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_X\Method\82X011525W.M
Title : SW846 8260

Signal : TIC: VX044717.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.240 | 21 | 25 | 40 | rBV | 42408 | 68972 | 7.09% | 1.376% |
| 2 | 1.593 | 72 | 83 | 85 | rBV5 | 6219 | 19163 | 1.97% | 0.382% |
| 3 | 5.379 | 692 | 704 | 720 | rBV | 105960 | 316387 | 32.53% | 6.312% |
| 4 | 5.544 | 720 | 731 | 749 | rBV | 150653 | 445942 | 45.84% | 8.896% |
| 5 | 5.952 | 786 | 798 | 817 | rBV | 116799 | 316646 | 32.55% | 6.317% |
| 6 | 6.757 | 920 | 930 | 950 | rBV | 271723 | 695594 | 71.51% | 13.877% |
| 7 | 8.647 | 1233 | 1240 | 1264 | rBV | 568286 | 972734 | 100.00% | 19.405% |
| 8 | 10.049 | 1465 | 1470 | 1488 | rBV | 568800 | 839333 | 86.29% | 16.744% |
| 9 | 11.079 | 1633 | 1639 | 1657 | rBV | 469152 | 614433 | 63.17% | 12.257% |
| 10 | 12.018 | 1788 | 1793 | 1804 | rBV | 563913 | 723542 | 74.38% | 14.434% |

Sum of corrected areas: 5012746

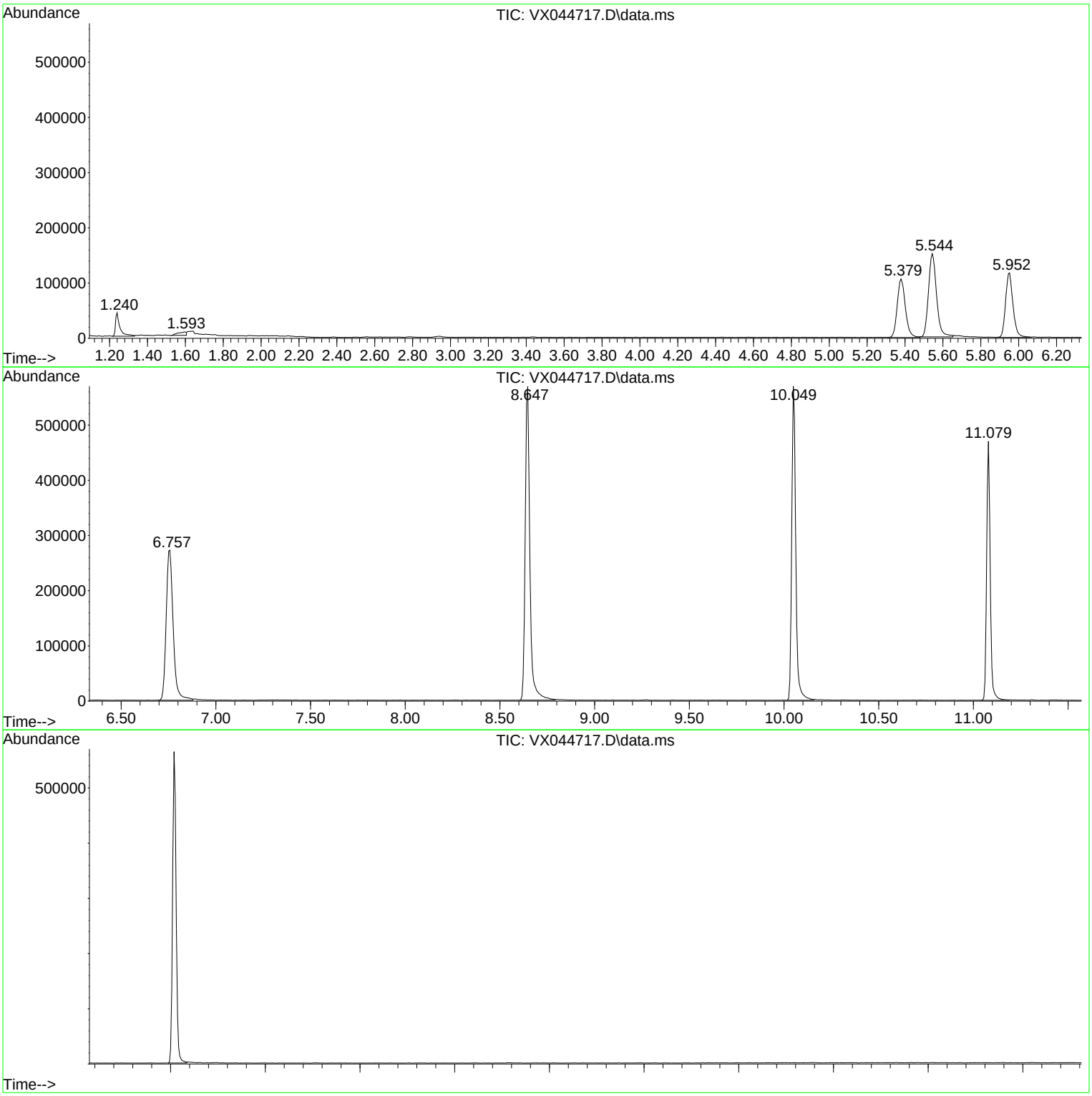
Sample Results: **VX044717.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044717.D
Acq On : 27 Jan 2025 12:38
Operator : JC/MD
Sample : Q1173-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-TB-20250121

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX044717.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044717.D
Acq On : 27 Jan 2025 12:38
Operator : JC/MD
Sample : Q1173-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-TB-20250121

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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_X\Data\VX012725\
Data File : VX044717.D
Acq On : 27 Jan 2025 12:38
Operator : JC/MD
Sample : Q1173-01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-TB-20250121

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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 |

Raw Data: **VX044718.D**

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: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-60-62 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-02 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044718.D | 1 | | 01/27/25 13:01 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 74-87-3 | Chloromethane | 0.50 | U | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.75 | U | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 3.80 | U | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.75 | UQ | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U | 0.34 | 0.50 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.75 | U | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 12.0 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.50 | U | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U | 0.23 | 0.50 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.75 | U | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.50 | U | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/L |

Raw Data: **VX044718.D**

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: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-60-62 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-02 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044718.D | 1 | | 01/27/25 13:01 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 1.00 | U | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.50 | U | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.0 | | 81 - 118 | | 98% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.4 | | 80 - 119 | | 103% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 55.7 | | 89 - 112 | | 111% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.2 | | 85 - 114 | | 104% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 145000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 291000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 261000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 111000 | 12.018 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | N.D | | | | | |

Raw Data: **VX044718.D**

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: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-60-62 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-02 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044718.D | 1 | | 01/27/25 13:01 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

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

Sample Results: **VX044718.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044718.D
Acq On : 27 Jan 2025 13:01
Operator : JC/MD
Sample : Q1173-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

Quant Time: Jan 28 04:11:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

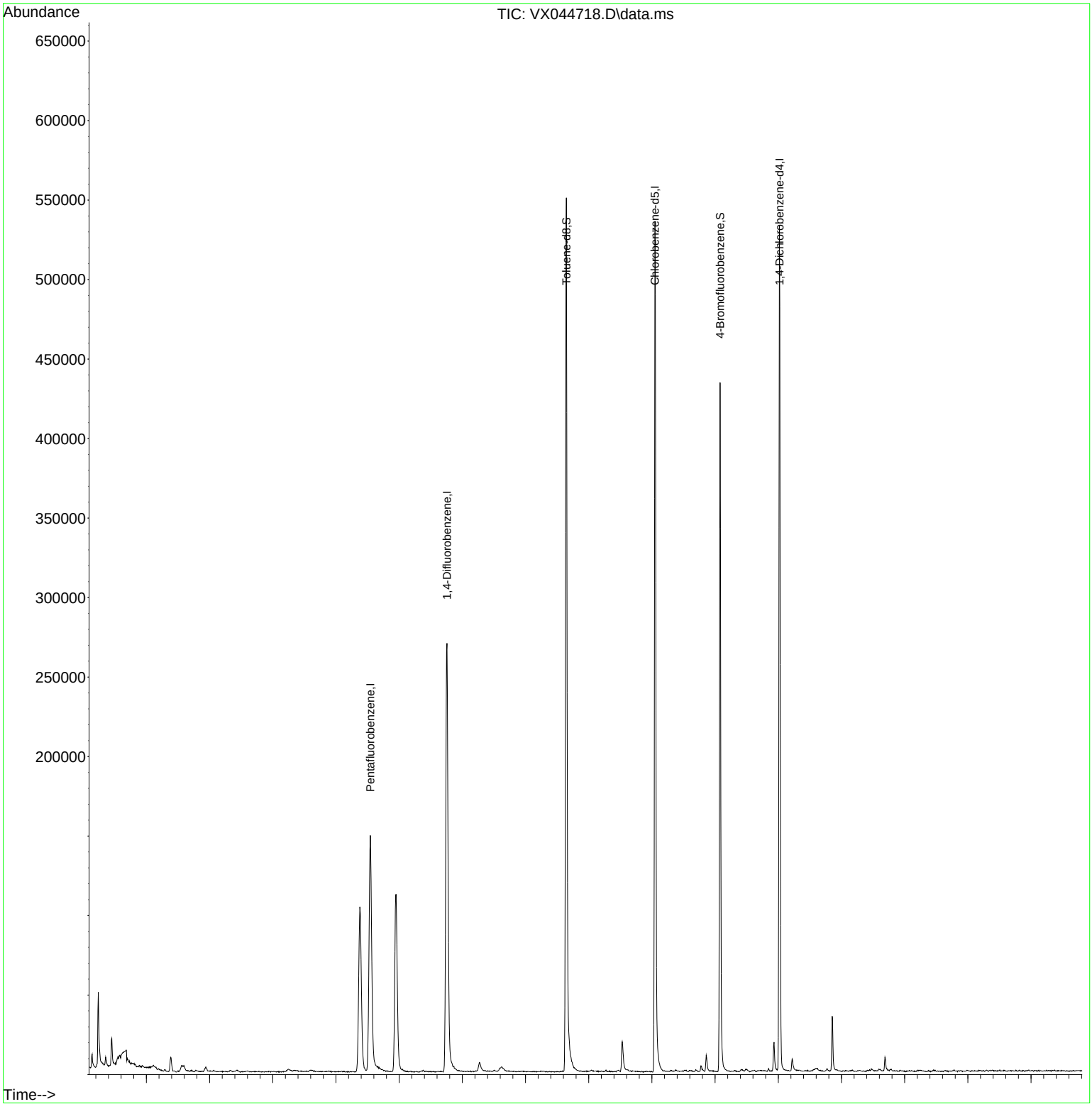
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 145080 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 291470 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 260564 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 111378 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 107332 | 49.013 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 98.020% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 95202 | 51.414 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 102.820% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 359433 | 55.671 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 111.340% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 125581 | 52.176 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 104.360% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.386 | 43 | 10408 | 12.013 | ug/l | 99 |

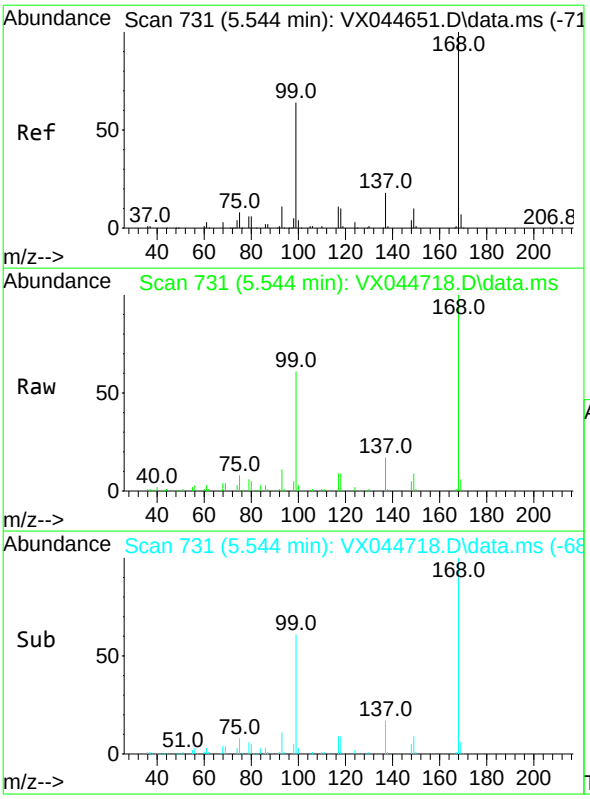
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044718.D
Acq On : 27 Jan 2025 13:01
Operator : JC/MD
Sample : Q1173-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

Quant Time: Jan 28 04:11:06 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



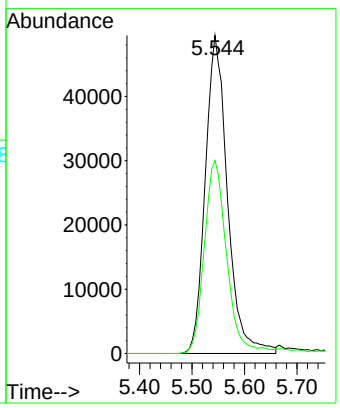


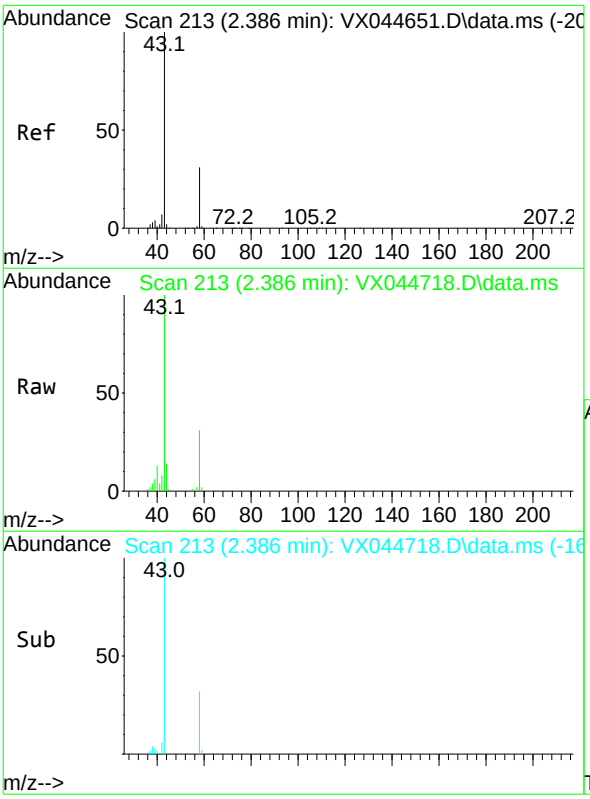

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044718.D
Acq: 27 Jan 2025 13:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

Tgt Ion:168 Resp: 145080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.7 | 51.1 | 76.7 |

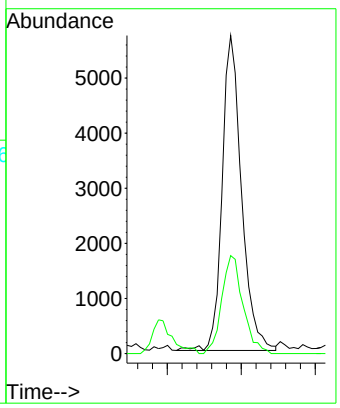


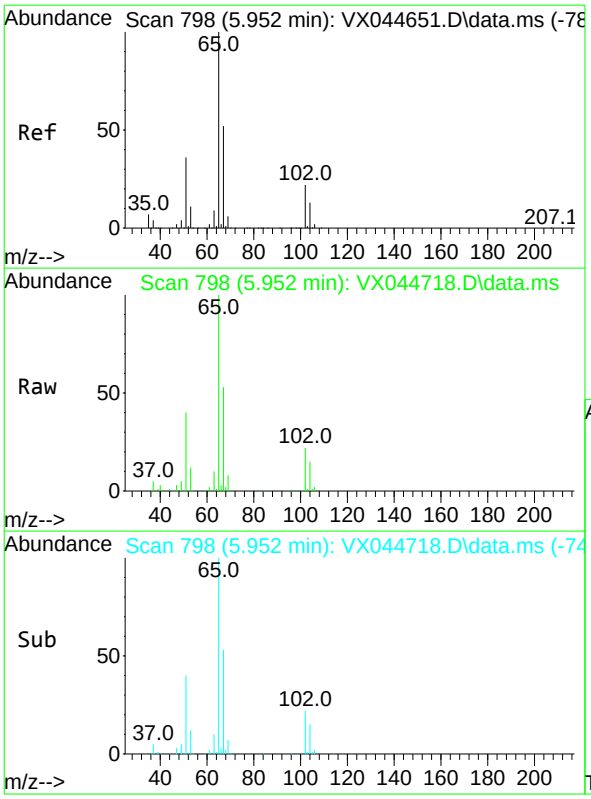




#16
Acetone
Concen: 12.013 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044718.D
Acq: 27 Jan 2025 13:01

Tgt Ion: 43 Resp: 10408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.1 | 24.6 | 37.0 |



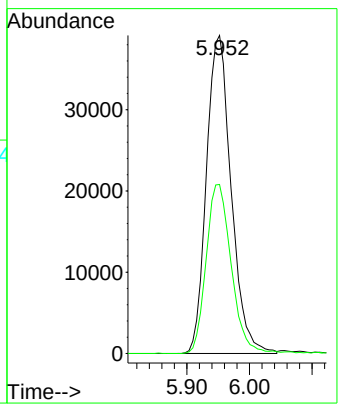


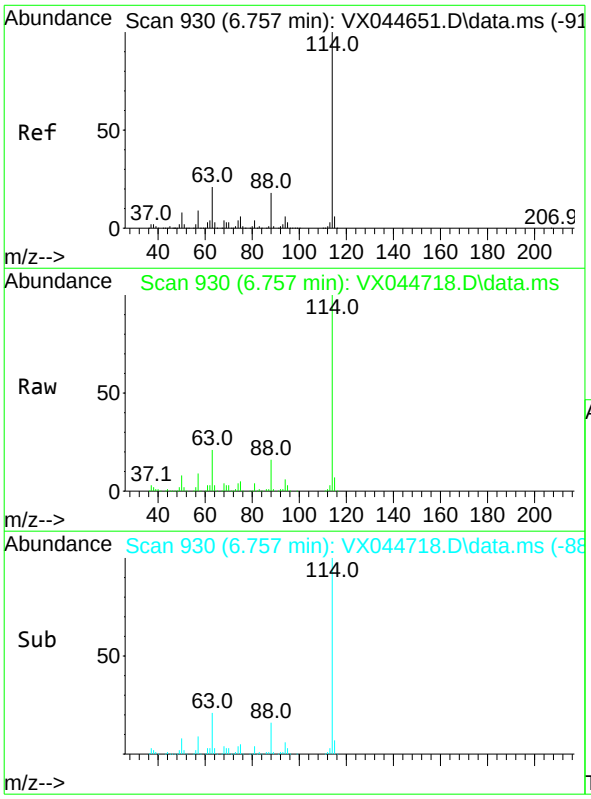

#33
1,2-Dichloroethane-d4
Concen: 49.013 ug/l
RT: 5.952 min Scan# 79
Delta R.T. 0.000 min
Lab File: VX044718.D
Acq: 27 Jan 2025 13:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

Tgt Ion: 65 Resp: 107332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.8 | 0.0 | 103.4 |

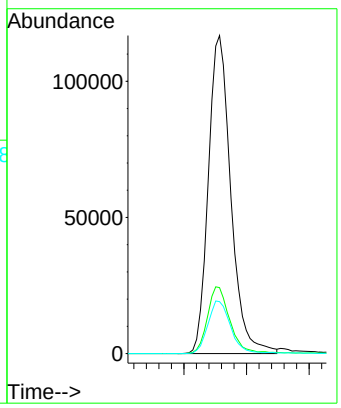


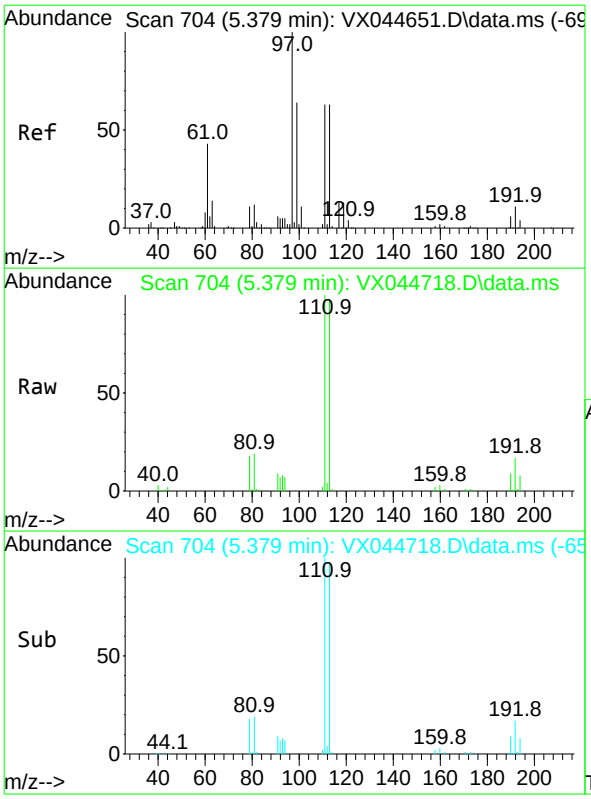




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044718.D
Acq: 27 Jan 2025 13:01

Tgt Ion:114 Resp: 291470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.7 | 0.0 | 43.0 |
| 88 | 16.3 | 0.0 | 35.4 |



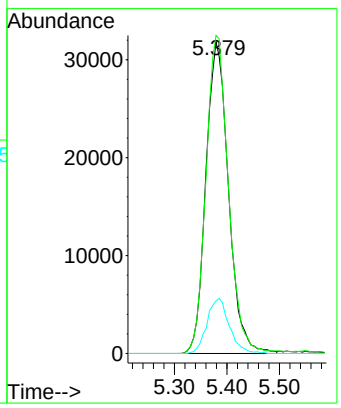


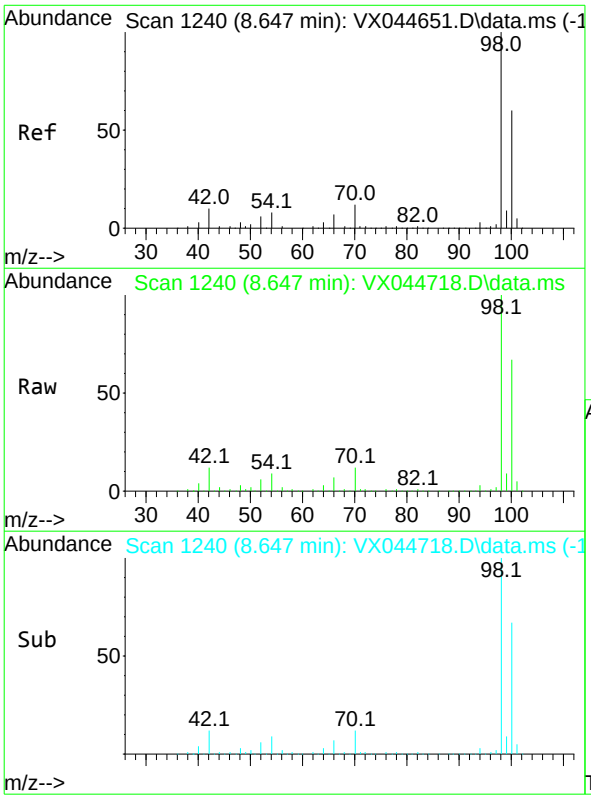

#35
Dibromofluoromethane
Concen: 51.414 ug/l
RT: 5.379 min Scan# 70
Delta R.T. 0.000 min
Lab File: VX044718.D
Acq: 27 Jan 2025 13:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

Tgt Ion:113 Resp: 95202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.1 | 81.6 | 122.4 |
| 192 | 17.4 | 14.4 | 21.6 |

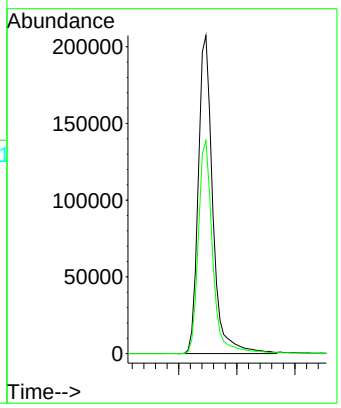


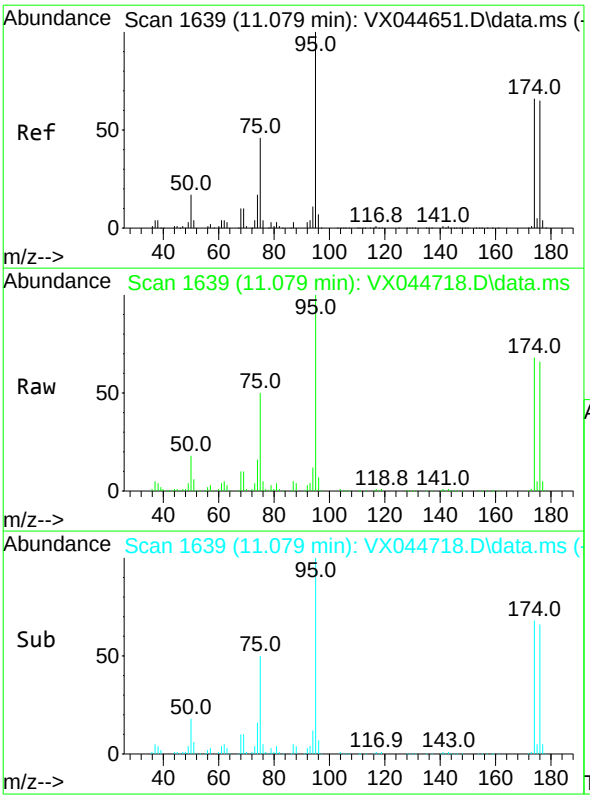




#50
Toluene-d8
Concen: 55.671 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044718.D
Acq: 27 Jan 2025 13:01

Tgt Ion: 98 Resp: 359433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.5 | 53.2 | 79.8 |



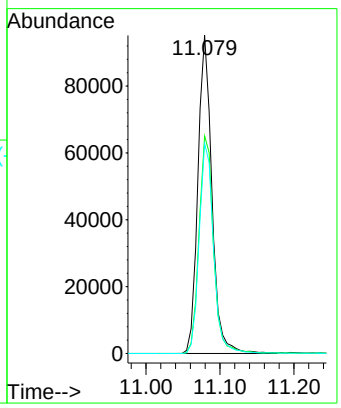


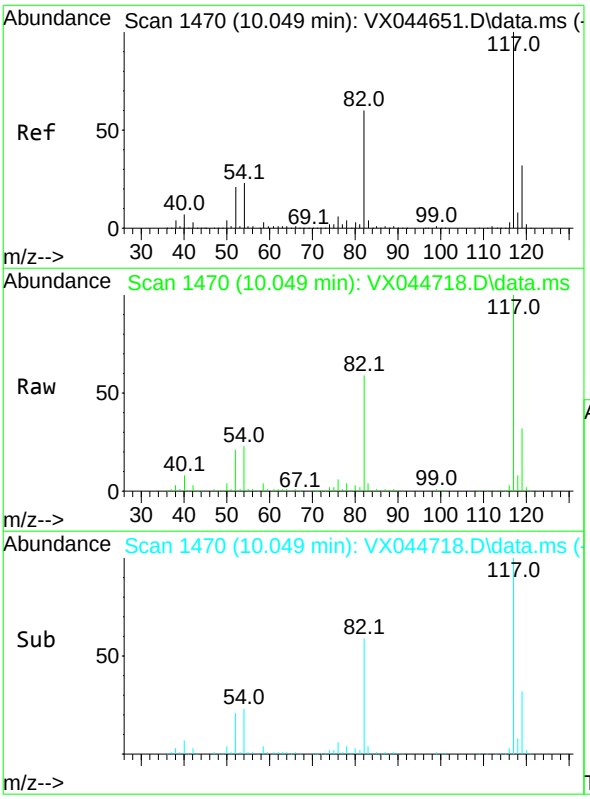

#62
4-Bromofluorobenzene
Concen: 52.176 ug/l
RT: 11.079 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044718.D
Acq: 27 Jan 2025 13:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

Tgt Ion: 95 Resp: 125581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 70.6 | 0.0 | 133.0 |
| 176 | 67.4 | 0.0 | 129.4 |

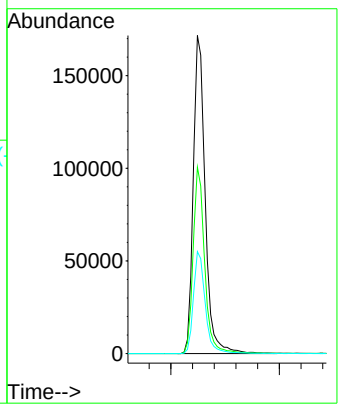


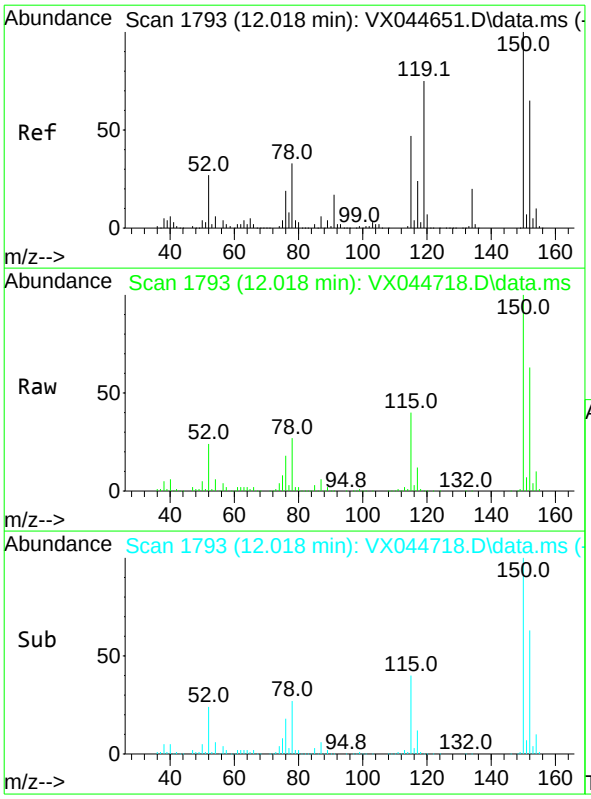




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044718.D
Acq: 27 Jan 2025 13:01

Tgt Ion:117 Resp: 260564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.6 | 47.6 | 71.4 |
| 119 | 32.0 | 25.4 | 38.2 |



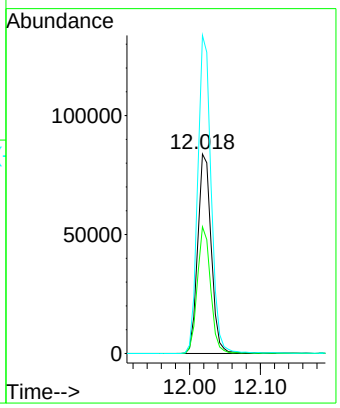



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044718.D
Acq: 27 Jan 2025 13:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

Tgt Ion:152 Resp: 111378

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.1 | 43.8 | 131.4 |
| 150 | 158.0 | 0.0 | 347.8 |



Sample Results: **VX044718.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044718.D
Acq On : 27 Jan 2025 13:01
Operator : JC/MD
Sample : Q1173-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

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_X\Method\82X011525W.M
Title : SW846 8260

Signal : TIC: VX044718.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.142 | 5 | 9 | 18 | rBV2 | 8529 | 11938 | 1.25% | 0.235% |
| 2 | 1.240 | 19 | 25 | 40 | rVV | 47100 | 72522 | 7.60% | 1.430% |
| 3 | 1.453 | 56 | 60 | 68 | rBV | 17029 | 23599 | 2.47% | 0.465% |
| 4 | 2.386 | 208 | 213 | 219 | rBV | 8956 | 16109 | 1.69% | 0.318% |
| 5 | 2.569 | 233 | 243 | 245 | rBV3 | 3861 | 9546 | 1.00% | 0.188% |
| 6 | 5.379 | 693 | 704 | 720 | rBV2 | 103945 | 309111 | 32.38% | 6.095% |
| 7 | 5.544 | 721 | 731 | 749 | rBV | 147643 | 433873 | 45.45% | 8.555% |
| 8 | 5.952 | 787 | 798 | 811 | rBV | 111413 | 308768 | 32.35% | 6.088% |
| 9 | 6.757 | 920 | 930 | 945 | rBV | 269685 | 678896 | 71.12% | 13.386% |
| 10 | 7.269 | 1006 | 1014 | 1023 | rBV3 | 5491 | 14591 | 1.53% | 0.288% |
| 11 | 8.647 | 1233 | 1240 | 1260 | rBV | 549452 | 954598 | 100.00% | 18.822% |
| 12 | 9.531 | 1380 | 1385 | 1395 | rBV2 | 18862 | 39233 | 4.11% | 0.774% |
| 13 | 10.049 | 1464 | 1470 | 1490 | rBV | 534974 | 809442 | 84.79% | 15.960% |
| 14 | 10.860 | 1599 | 1603 | 1612 | rBV3 | 10125 | 15512 | 1.62% | 0.306% |
| 15 | 11.079 | 1633 | 1639 | 1660 | rBV | 433374 | 580051 | 60.76% | 11.437% |
| 16 | 11.933 | 1773 | 1779 | 1785 | rBV | 18283 | 27568 | 2.89% | 0.544% |
| 17 | 12.018 | 1788 | 1793 | 1808 | rVB | 531535 | 692652 | 72.56% | 13.657% |
| 18 | 12.219 | 1820 | 1826 | 1836 | rBV2 | 7565 | 14049 | 1.47% | 0.277% |
| 19 | 12.853 | 1924 | 1930 | 1940 | rBV | 34637 | 47810 | 5.01% | 0.943% |
| 20 | 13.689 | 2064 | 2067 | 2074 | rBV4 | 8391 | 11959 | 1.25% | 0.236% |

Sum of corrected areas: 5071827

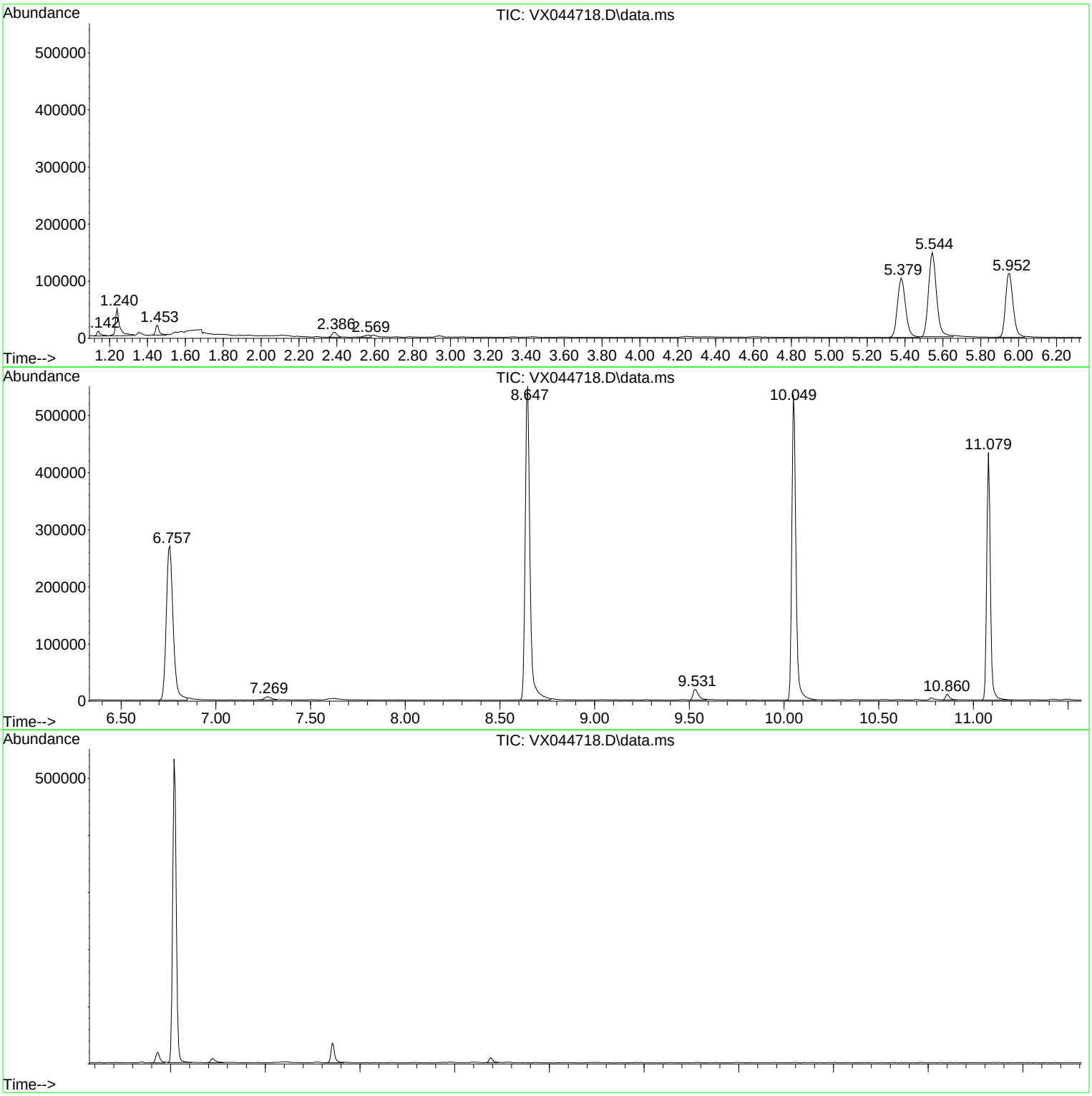
Sample Results: **VX044718.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044718.D
Acq On : 27 Jan 2025 13:01
Operator : JC/MD
Sample : Q1173-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX044718.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044718.D
Acq On : 27 Jan 2025 13:01
Operator : JC/MD
Sample : Q1173-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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_X\Data\VX012725\
Data File : VX044718.D
Acq On : 27 Jan 2025 13:01
Operator : JC/MD
Sample : Q1173-02
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 9 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-60-62

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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 |

Raw Data: **VX044719.D**

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: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-100-102 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-03 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044719.D | 1 | | 01/27/25 13:24 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 74-87-3 | Chloromethane | 0.50 | U | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.75 | U | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 3.80 | U | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.75 | UQ | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U | 0.34 | 0.50 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.75 | U | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 7.60 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.50 | U | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U | 0.23 | 0.50 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.75 | U | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 1.10 | | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.87 | J | 0.32 | 0.75 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.98 | J | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/L |

Raw Data: **VX044719.D**

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: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-100-102 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-03 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044719.D | 1 | | 01/27/25 13:24 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.10 | | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 1.00 | U | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.50 | U | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.9 | | 81 - 118 | | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.8 | | 80 - 119 | | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 55.2 | | 89 - 112 | | 110% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 52.4 | | 85 - 114 | | 105% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 157000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 304000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 268000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 116000 | 12.018 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | N.D | | | | | |

Raw Data: **VX044719.D**

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: | 01/21/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-100-102 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-03 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044719.D | 1 | | 01/27/25 13:24 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

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

Sample Results: **VX044719.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044719.D
Acq On : 27 Jan 2025 13:24
Operator : JC/MD
Sample : Q1173-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Quant Time: Jan 28 04:11:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

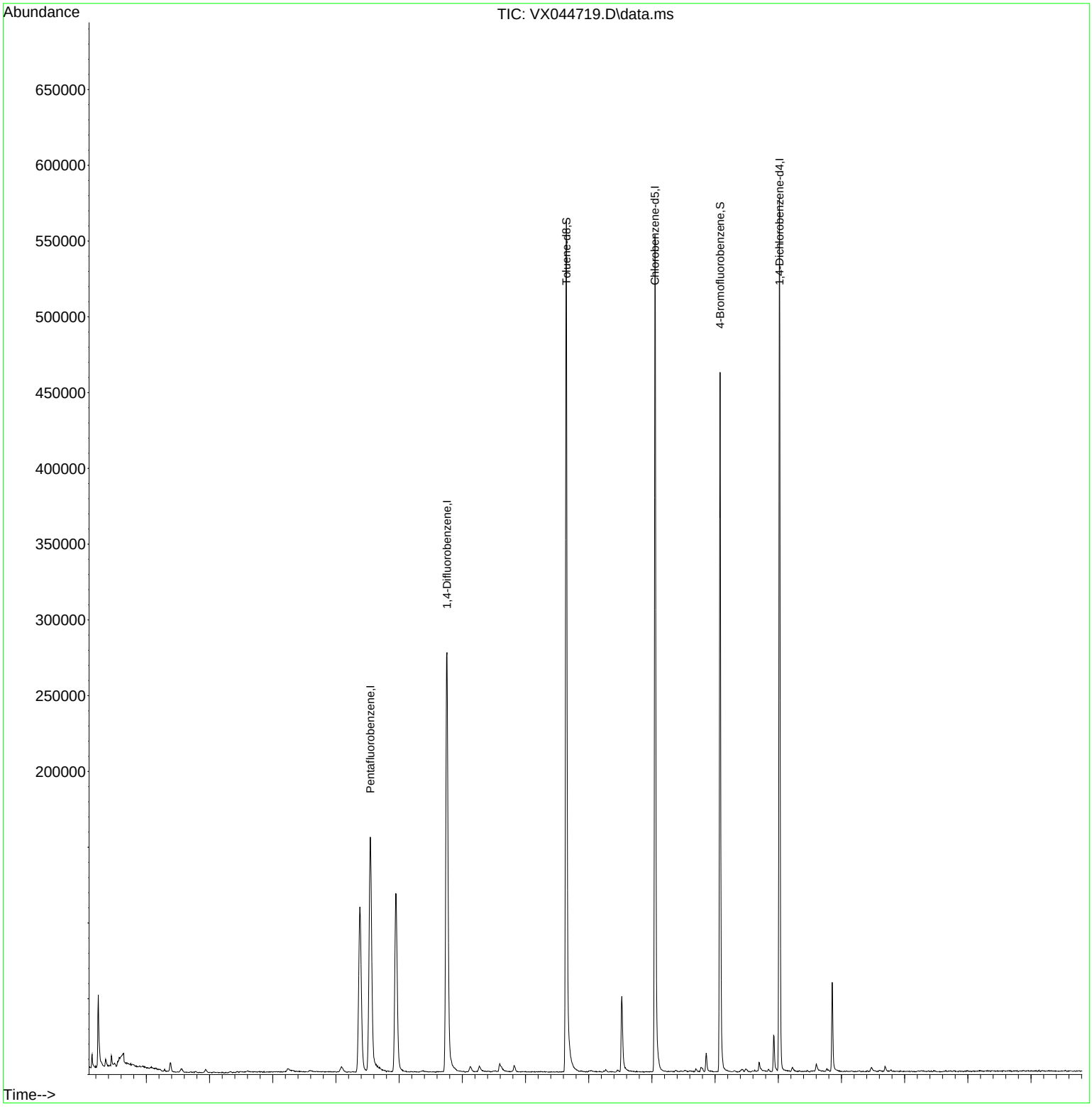
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 156971 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 304234 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 268221 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 115943 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 113380 | 47.853 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 95.700% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 98218 | 50.818 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.640% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 372179 | 55.227 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 110.460% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 131621 | 52.391 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 104.780% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.380 | 43 | 7094 | 7.568 | ug/l | 97 |
| 30) Chloroform | 5.086 | 83 | 4072 | 1.094 | ug/l | 94 |
| 44) Trichloroethene | 7.135 | 130 | 1739 | 0.868 | ug/l | 74 |
| 47) Bromodichloromethane | 7.818 | 83 | 3219 | 0.983 | ug/l # | 90 |
| 60) Dibromochloromethane | 9.525 | 129 | 2553 | 1.054 | ug/l | 99 |

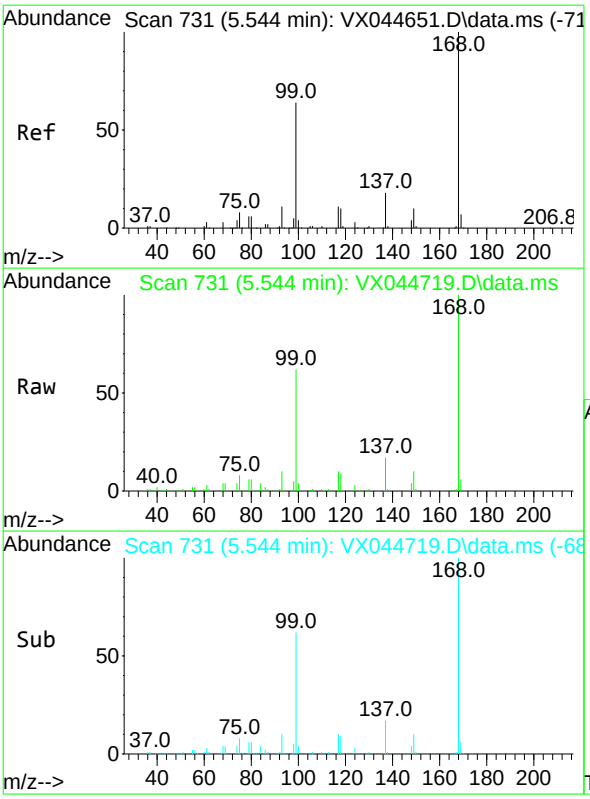
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044719.D
Acq On : 27 Jan 2025 13:24
Operator : JC/MD
Sample : Q1173-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Quant Time: Jan 28 04:11:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



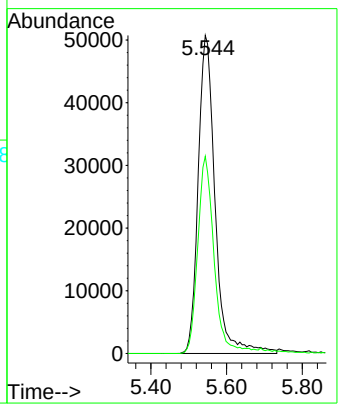


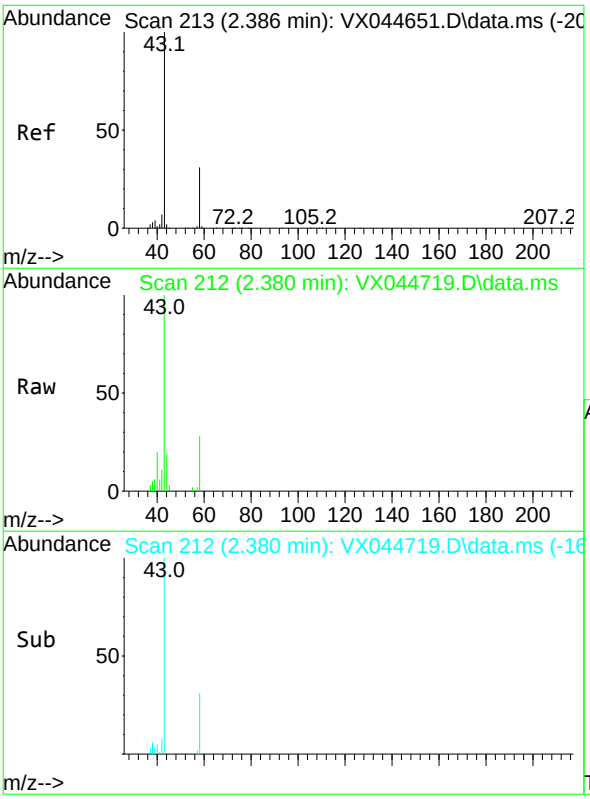

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Tgt Ion:168 Resp: 156971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.0 | 51.1 | 76.7 |

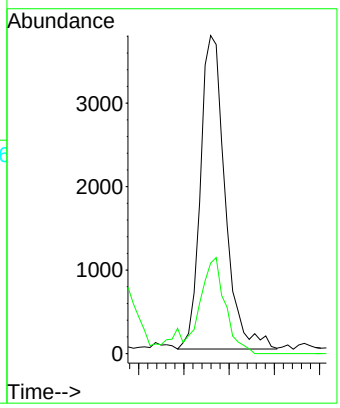


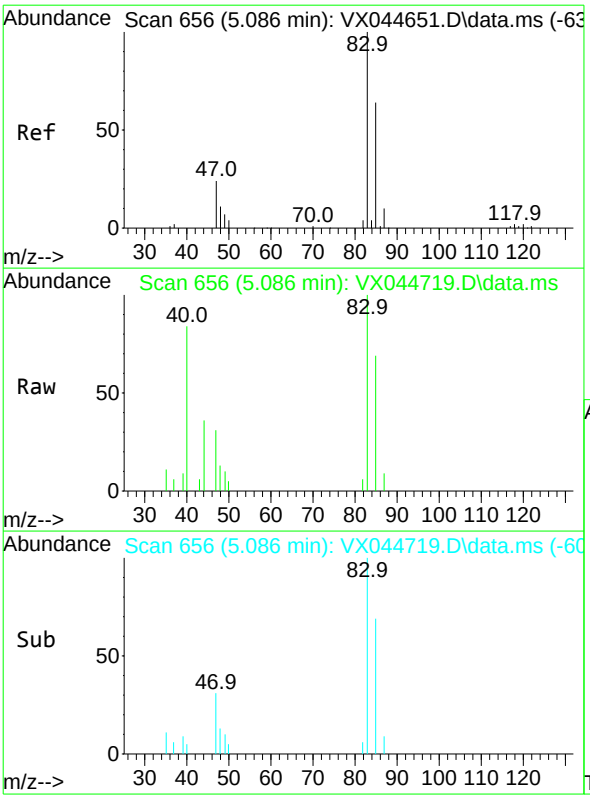




#16
Acetone
Concen: 7.568 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

Tgt Ion: 43 Resp: 7094

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 28.9 | 24.6 | 37.0 |



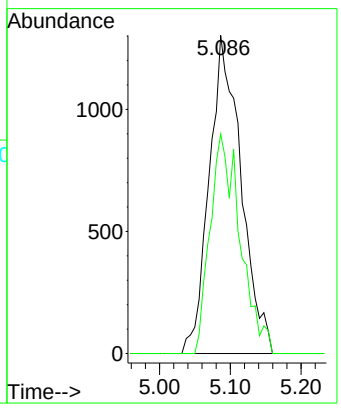


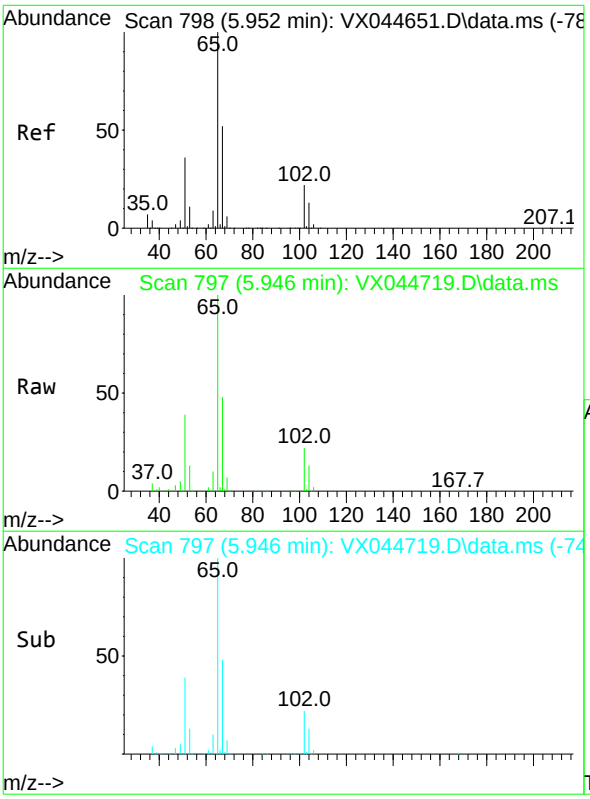

#30
Chloroform
Concen: 1.094 ug/l
RT: 5.086 min Scan# 65
Delta R.T. 0.000 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Tgt Ion: 83 Resp: 4072

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 68.9 | 51.2 | 76.8 |

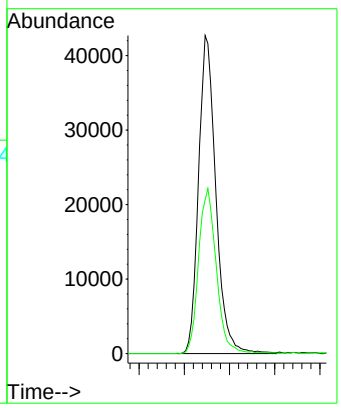


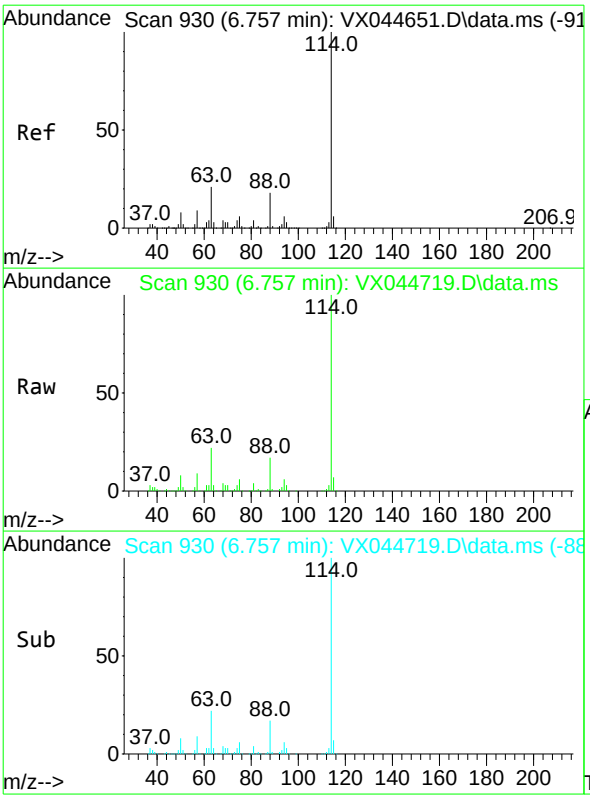




#33
1,2-Dichloroethane-d4
Concen: 47.853 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

Tgt Ion: 65 Resp: 113380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.0 | 0.0 | 103.4 |



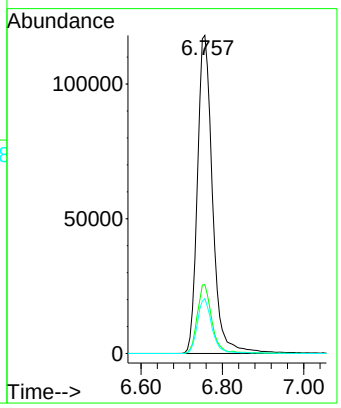


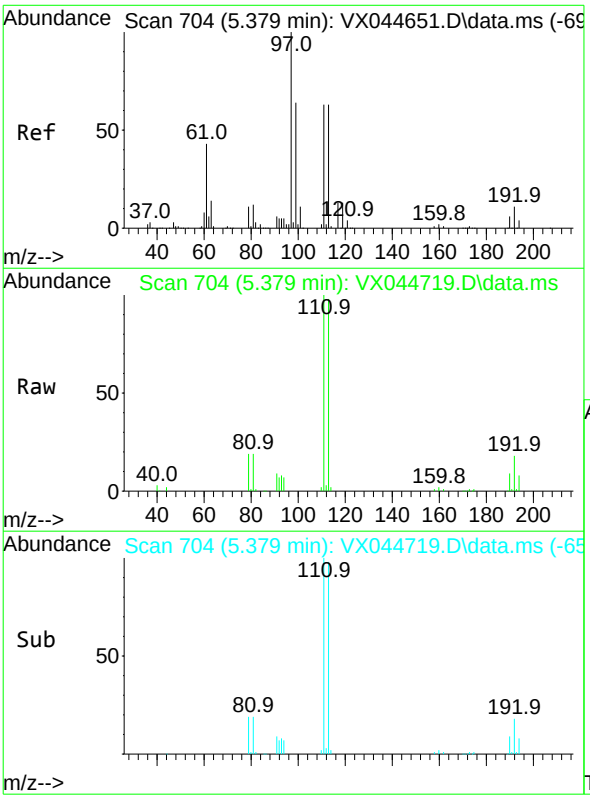

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Tgt Ion:114 Resp: 304234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 43.0 |
| 88 | 17.2 | 0.0 | 35.4 |

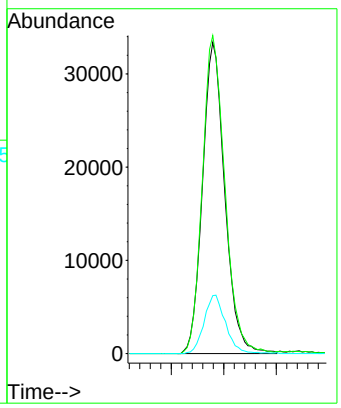


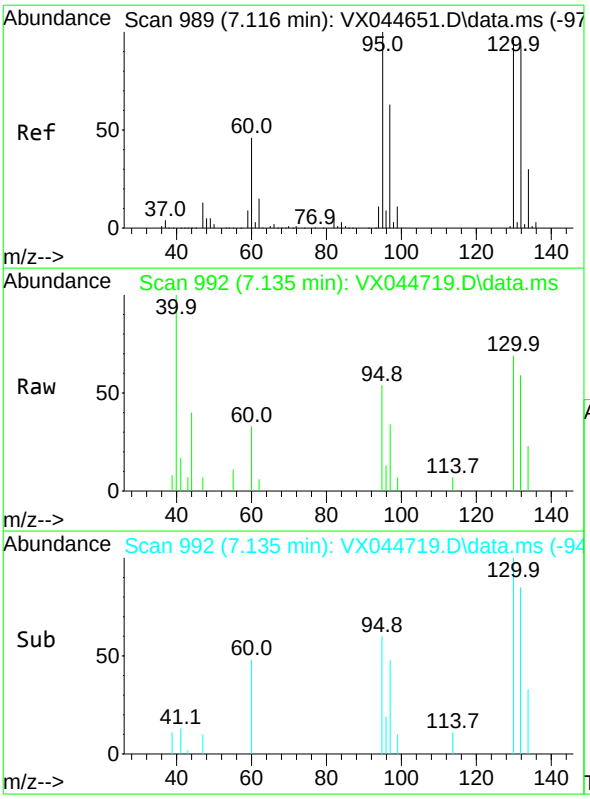




#35
Dibromofluoromethane
Concen: 50.818 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

Tgt Ion:113 Resp: 98218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.4 | 81.6 | 122.4 |
| 192 | 18.2 | 14.4 | 21.6 |



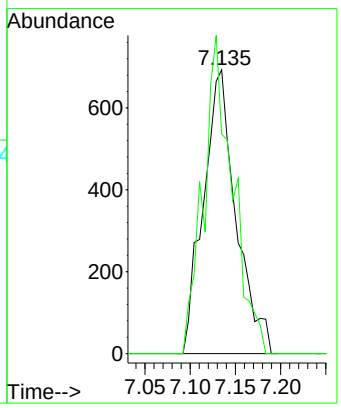


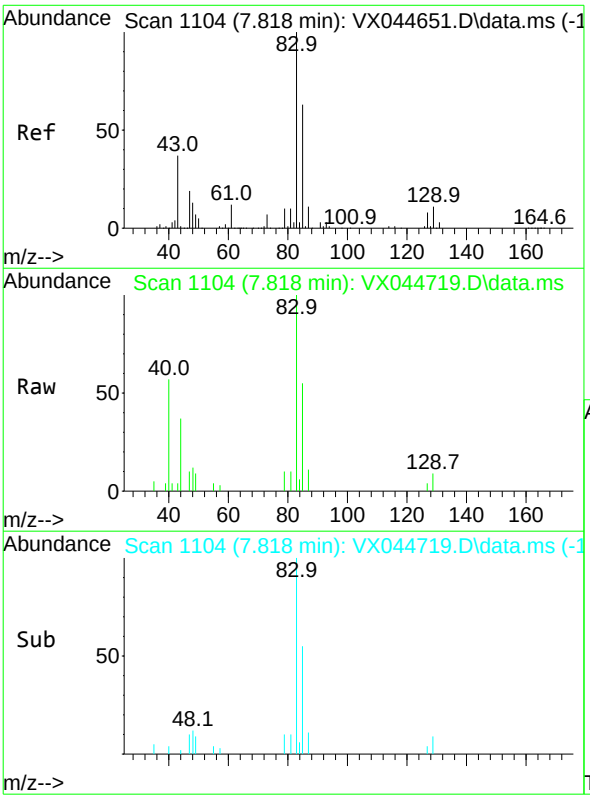

#44
Trichloroethene
Concen: 0.868 ug/l
RT: 7.135 min Scan# 99
Delta R.T. 0.018 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Tgt Ion:130 Resp: 1739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 77.3 | 0.0 | 208.2 |

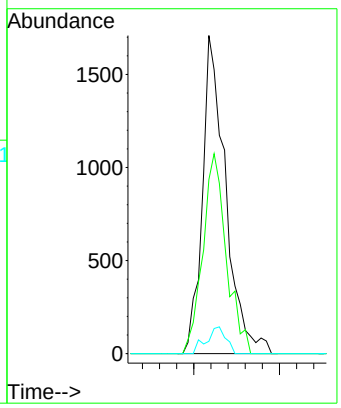


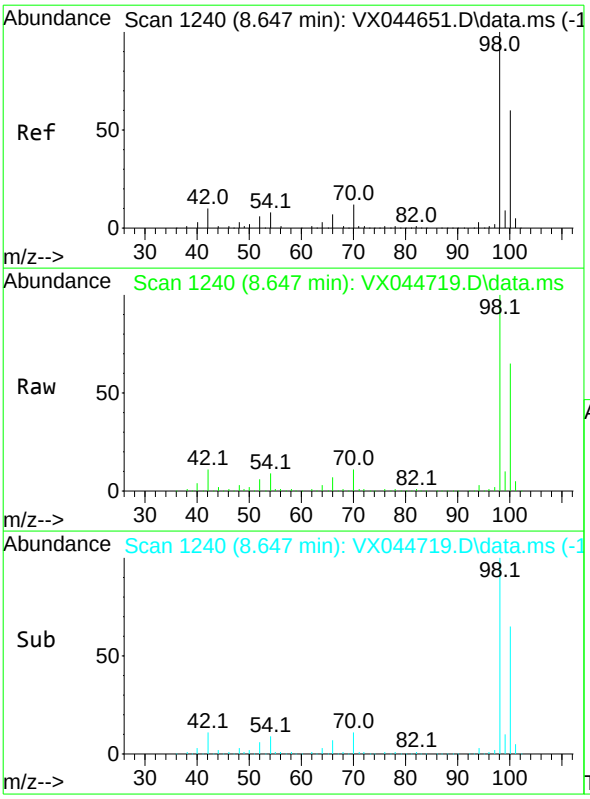




#47
Bromodichloromethane
Concen: 0.983 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

Tgt Ion: 83 Resp: 3219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 54.7 | 50.1 | 75.1 |
| 127 | 3.9 | 6.5 | 9.7# |



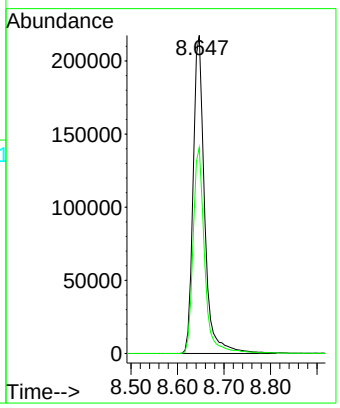


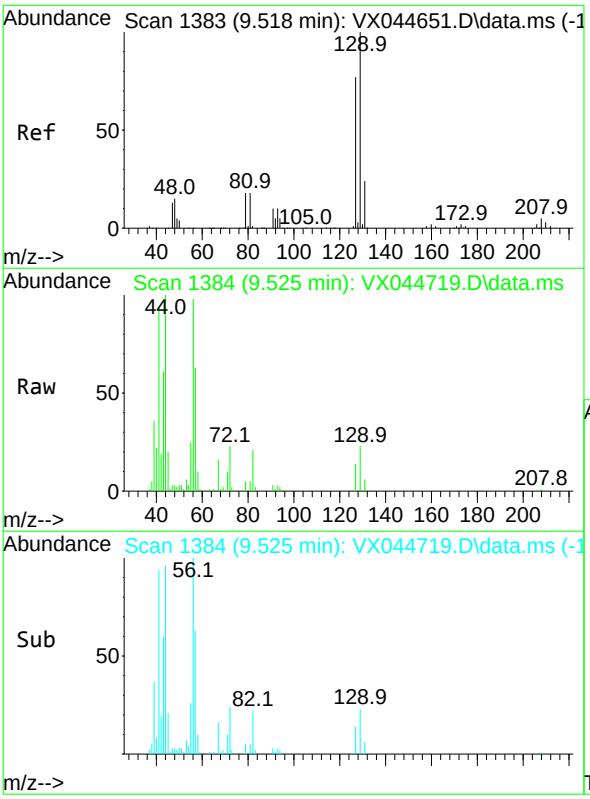

#50
Toluene-d8
Concen: 55.227 ug/l
RT: 8.647 min Scan# 12
Delta R.T. 0.000 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Tgt Ion: 98 Resp: 372179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.1 | 53.2 | 79.8 |

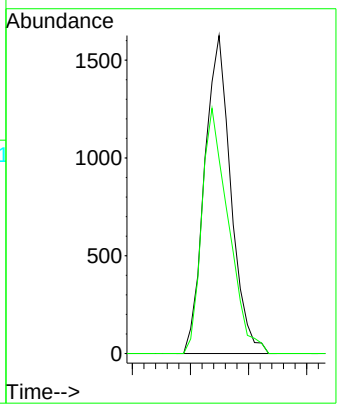


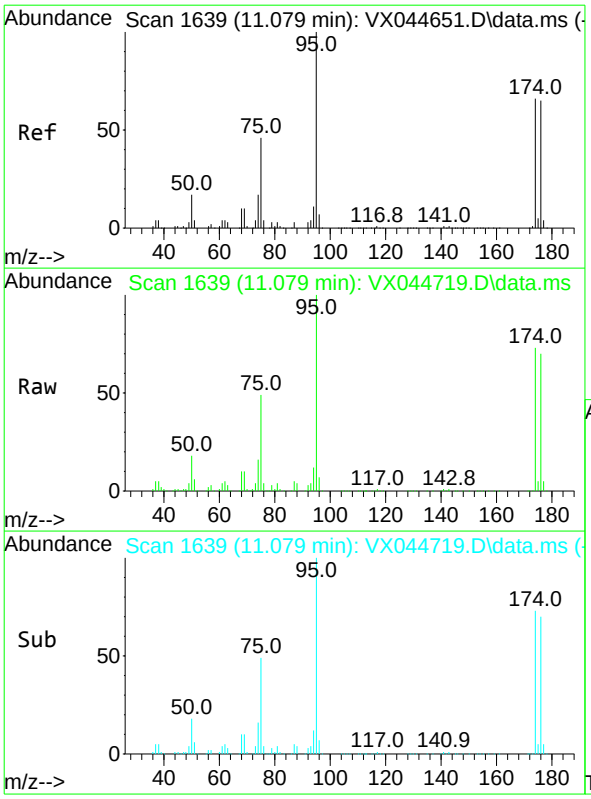




#60
Dibromochloromethane
Concen: 1.054 ug/l
RT: 9.525 min Scan# 1384
Delta R.T. 0.006 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

Tgt Ion:129 Resp: 2553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.2 | 38.5 | 115.5 |



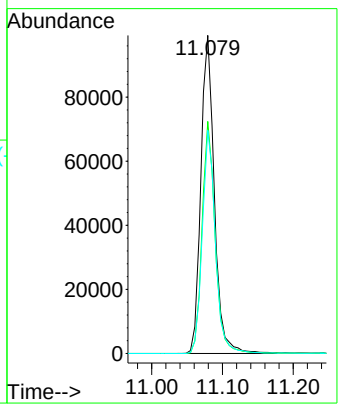


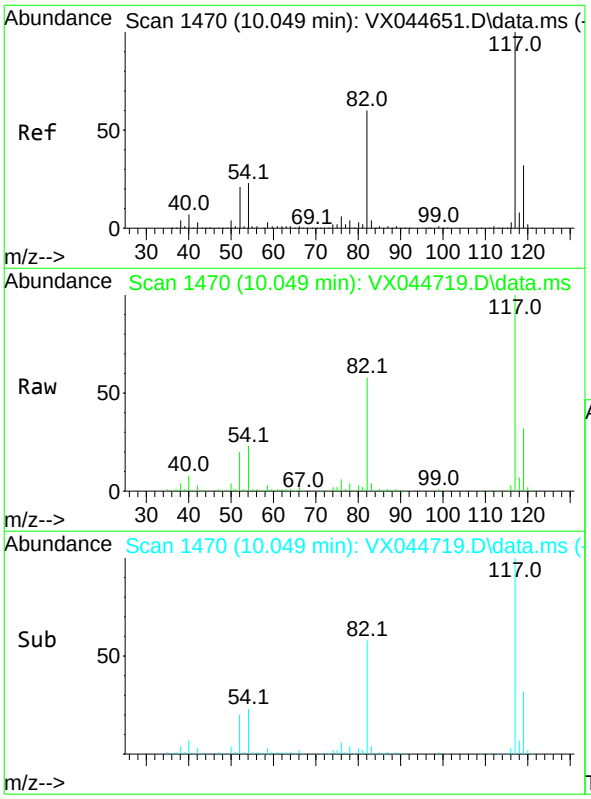

#62
4-Bromofluorobenzene
Concen: 52.391 ug/l
RT: 11.079 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Tgt Ion: 95 Resp: 131621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 70.6 | 0.0 | 133.0 |
| 176 | 68.2 | 0.0 | 129.4 |

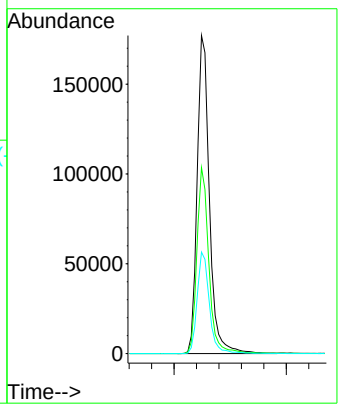


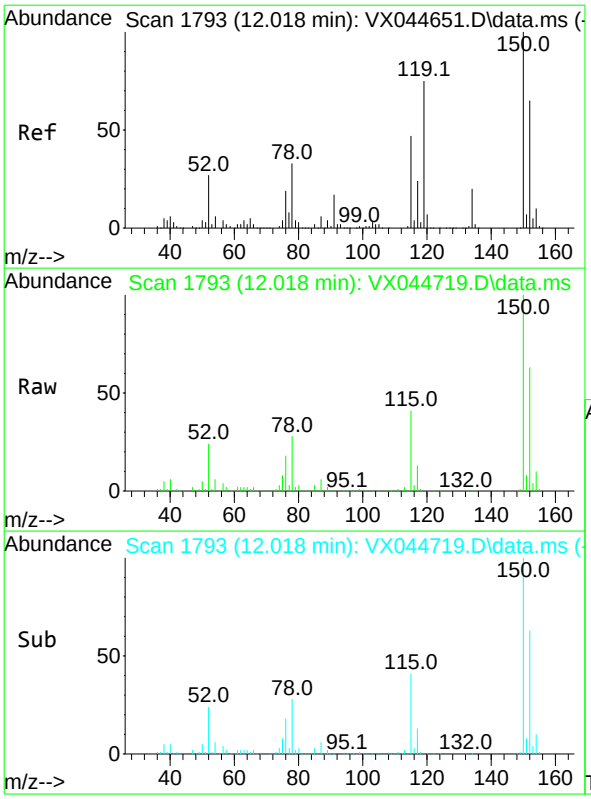




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

Tgt Ion:117 Resp: 268221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.5 | 47.6 | 71.4 |
| 119 | 31.9 | 25.4 | 38.2 |



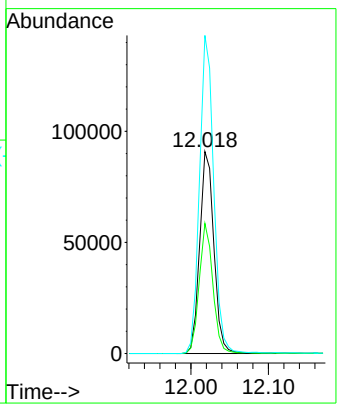



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044719.D
Acq: 27 Jan 2025 13:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Tgt Ion:152 Resp: 115943

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.2 | 43.8 | 131.4 |
| 150 | 157.7 | 0.0 | 347.8 |



Sample Results: **VX044719.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044719.D
Acq On : 27 Jan 2025 13:24
Operator : JC/MD
Sample : Q1173-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

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_X\Method\82X011525W.M
Title : SW846 8260

Signal : TIC: VX044719.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.142 | 6 | 9 | 17 | rBV2 | 8858 | 10969 | 1.12% | 0.208% |
| 2 | 1.240 | 20 | 25 | 41 | rBV | 48007 | 71806 | 7.34% | 1.361% |
| 3 | 1.569 | 72 | 79 | 81 | rBV4 | 5752 | 11360 | 1.16% | 0.215% |
| 4 | 2.380 | 207 | 212 | 218 | rVB | 5840 | 9885 | 1.01% | 0.187% |
| 5 | 5.086 | 649 | 656 | 669 | rVB4 | 3631 | 11456 | 1.17% | 0.217% |
| 6 | 5.379 | 694 | 704 | 721 | rBV | 109022 | 321828 | 32.88% | 6.100% |
| 7 | 5.544 | 721 | 731 | 749 | rBV | 154006 | 455078 | 46.49% | 8.625% |
| 8 | 5.946 | 788 | 797 | 813 | rBV | 117596 | 321671 | 32.86% | 6.097% |
| 9 | 6.757 | 920 | 930 | 945 | rBV | 276675 | 696244 | 71.12% | 13.196% |
| 10 | 7.592 | 1063 | 1067 | 1079 | rBV6 | 5140 | 14681 | 1.50% | 0.278% |
| 11 | 8.647 | 1233 | 1240 | 1263 | rBV | 561402 | 978933 | 100.00% | 18.554% |
| 12 | 9.525 | 1379 | 1384 | 1399 | rBV | 49700 | 93678 | 9.57% | 1.775% |
| 13 | 10.049 | 1465 | 1470 | 1492 | rBV | 551890 | 822436 | 84.01% | 15.588% |
| 14 | 10.860 | 1599 | 1603 | 1611 | rVV2 | 12187 | 17386 | 1.78% | 0.330% |
| 15 | 11.079 | 1634 | 1639 | 1649 | rBV | 461468 | 602884 | 61.59% | 11.426% |
| 16 | 11.927 | 1774 | 1778 | 1788 | rBV | 23799 | 35997 | 3.68% | 0.682% |
| 17 | 12.018 | 1788 | 1793 | 1805 | rVV | 576045 | 721640 | 73.72% | 13.677% |
| 18 | 12.853 | 1925 | 1930 | 1943 | rBV | 58526 | 78260 | 7.99% | 1.483% |

Sum of corrected areas: 5276192

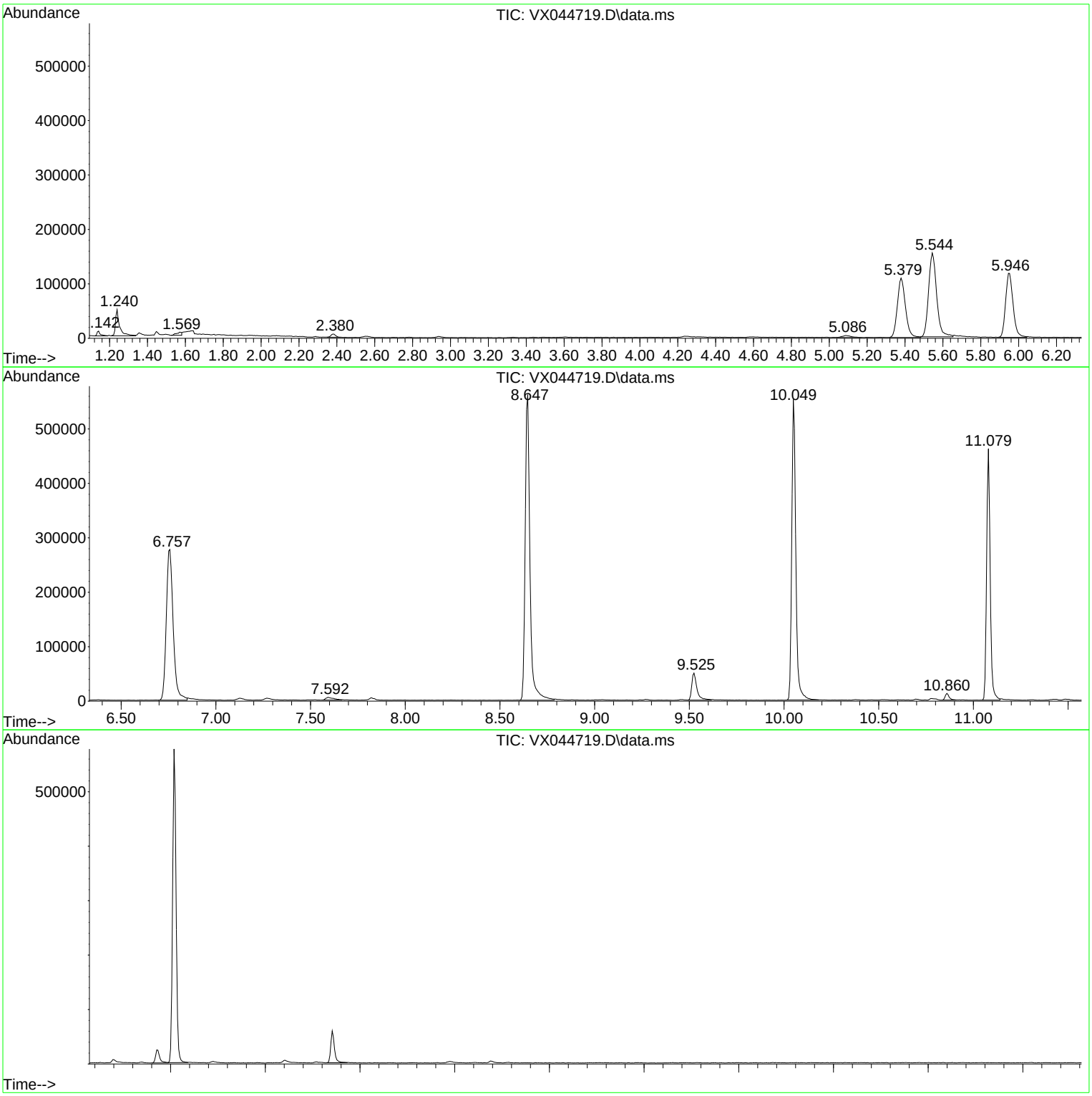
Sample Results: **VX044719.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044719.D
Acq On : 27 Jan 2025 13:24
Operator : JC/MD
Sample : Q1173-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX044719.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044719.D
Acq On : 27 Jan 2025 13:24
Operator : JC/MD
Sample : Q1173-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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_X\Data\VX012725\
Data File : VX044719.D
Acq On : 27 Jan 2025 13:24
Operator : JC/MD
Sample : Q1173-03
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-100-102

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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 |

Raw Data: **VX044720.D**

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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-140-142 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-04 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044720.D | 1 | | 01/27/25 13:47 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 74-87-3 | Chloromethane | 0.50 | U | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.75 | U | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 3.80 | U | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.75 | UQ | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U | 0.34 | 0.50 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.75 | U | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 7.40 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.50 | U | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U | 0.23 | 0.50 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.75 | U | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.70 | J | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 6.50 | | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.96 | J | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/L |

Raw Data: **VX044720.D**

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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-140-142 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-04 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044720.D | 1 | | 01/27/25 13:47 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 1.00 | U | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.50 | U | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 48.7 | | 81 - 118 | | 97% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 51.2 | | 80 - 119 | | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.9 | | 89 - 112 | | 110% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 50.9 | | 85 - 114 | | 102% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 154000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 313000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 273000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 115000 | 12.018 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | N.D | | | | | |

Raw Data: **VX044720.D**

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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-140-142 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-04 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044720.D | 1 | | 01/27/25 13:47 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

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

Sample Results: **VX044720.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044720.D
Acq On : 27 Jan 2025 13:47
Operator : JC/MD
Sample : Q1173-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Quant Time: Jan 28 04:11:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

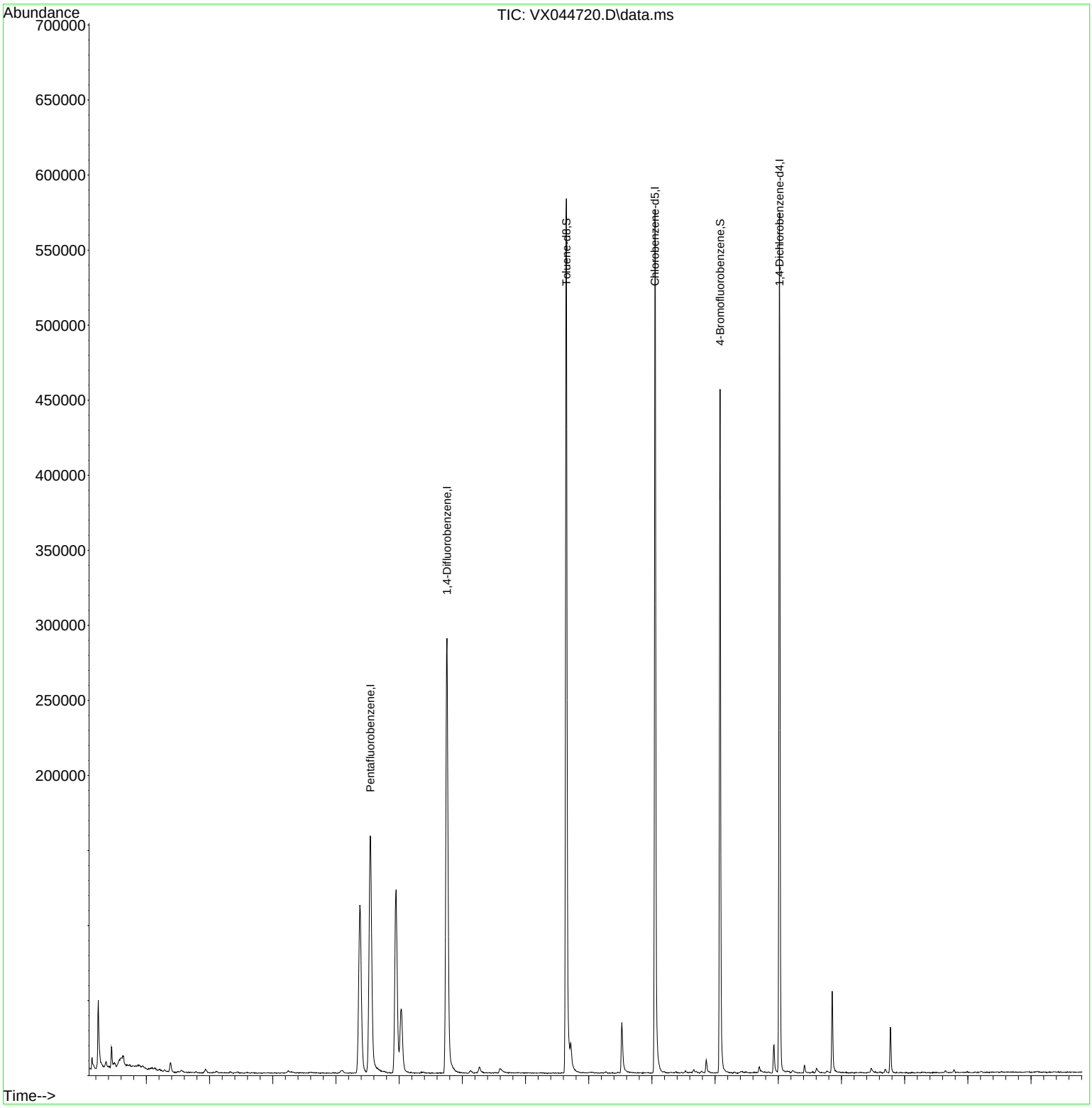
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 153813 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 313071 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 272691 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 114579 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 113117 | 48.722 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 97.440% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 101908 | 51.239 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 102.480% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 380557 | 54.876 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 109.760% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 131541 | 50.881 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 101.760% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.380 | 43 | 6840 | 7.446 | ug/l | 91 |
| 30) Chloroform | 5.093 | 83 | 2564 | 0.703 | ug/l | 87 |
| 40) Benzene | 6.038 | 78 | 55540 | 6.474 | ug/l | 98 |
| 52) Toluene | 8.720 | 92 | 5022 | 0.956 | ug/l | 96 |

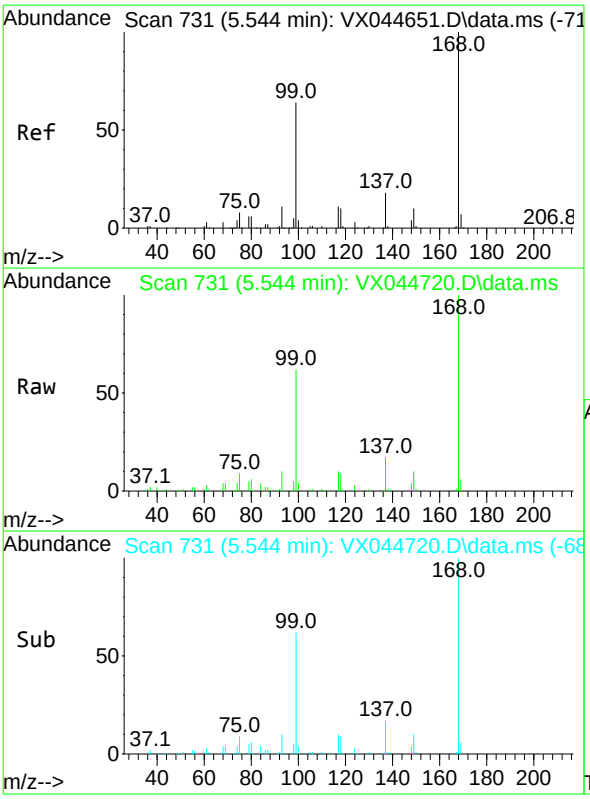
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044720.D
Acq On : 27 Jan 2025 13:47
Operator : JC/MD
Sample : Q1173-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Quant Time: Jan 28 04:11:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



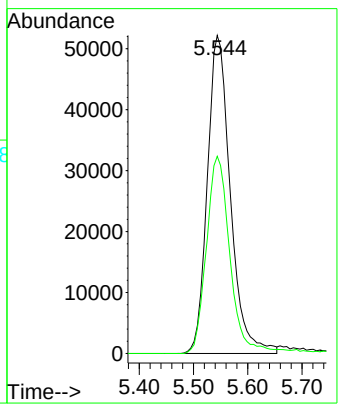


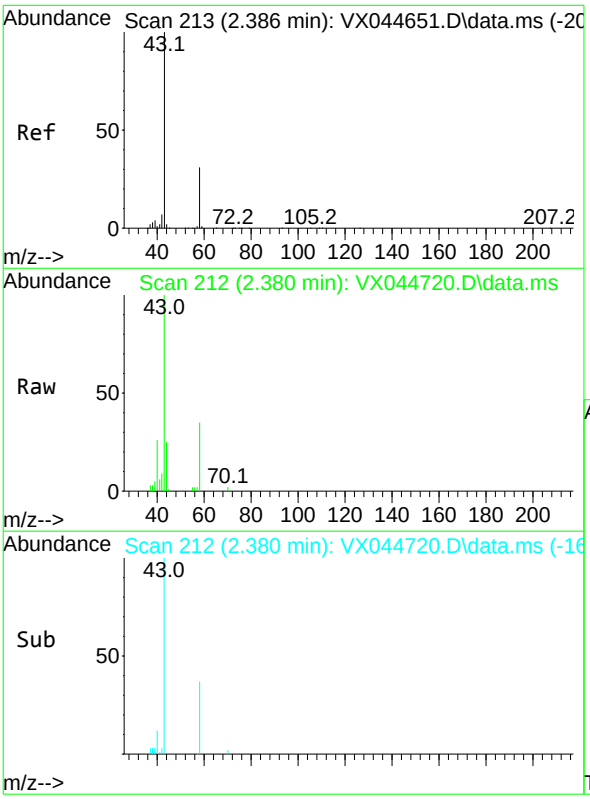

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Tgt Ion:168 Resp: 153813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 62.0 | 51.1 | 76.7 |

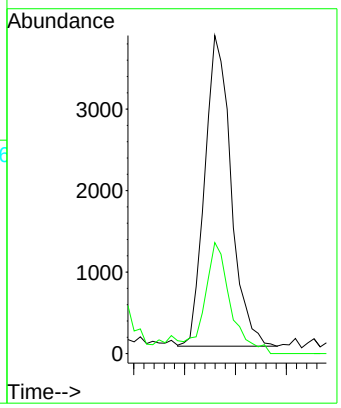


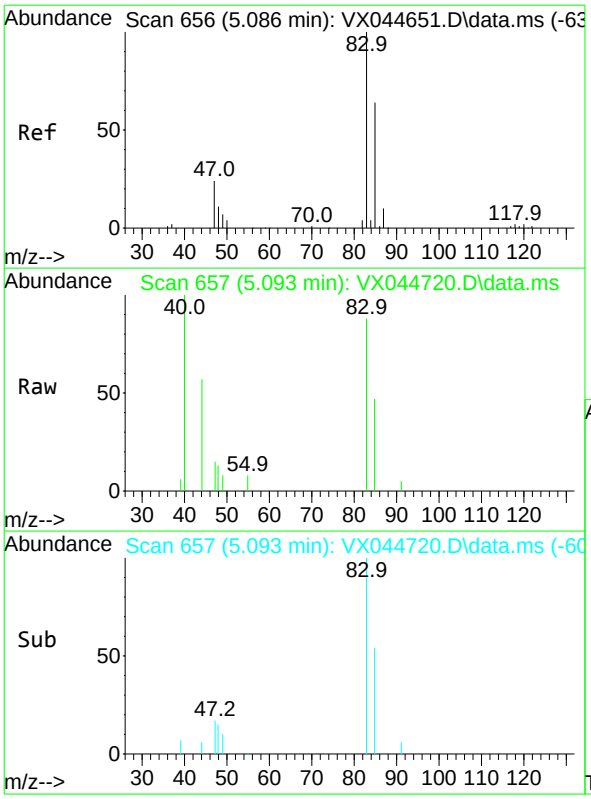




#16
Acetone
Concen: 7.446 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

Tgt Ion: 43 Resp: 6840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 35.7 | 24.6 | 37.0 |



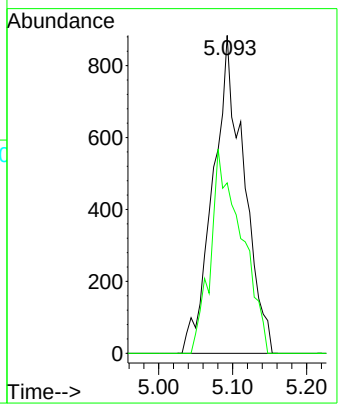


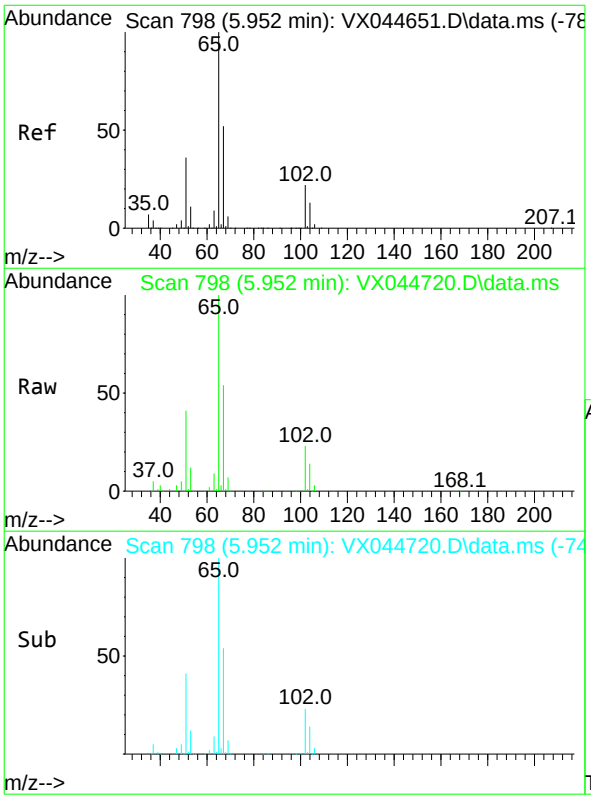

#30
Chloroform
Concen: 0.703 ug/l
RT: 5.093 min Scan# 65
Delta R.T. 0.006 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Tgt Ion: 83 Resp: 2564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 53.6 | 51.2 | 76.8 |

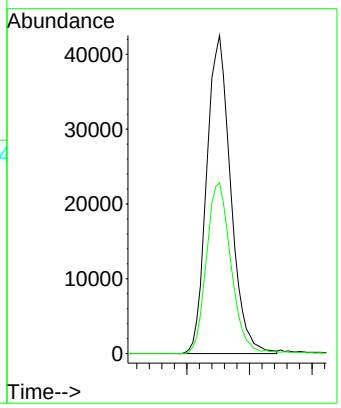


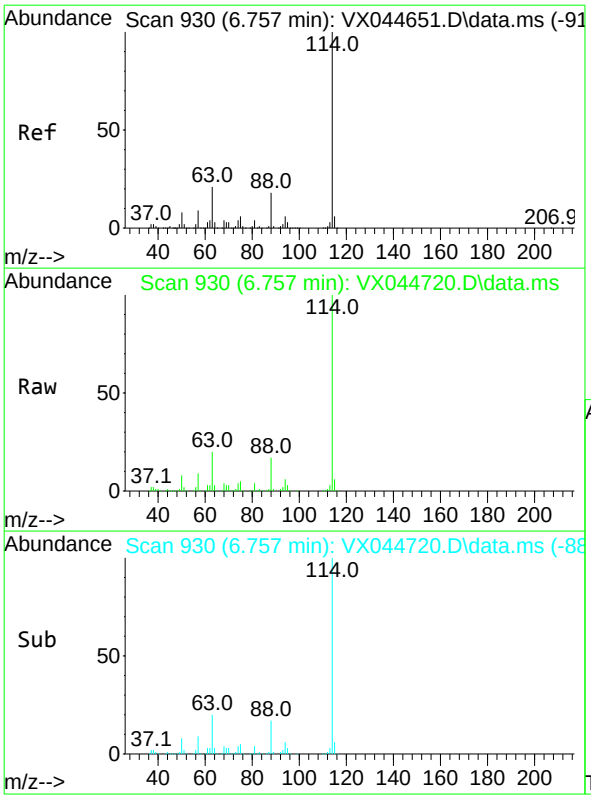




#33
1,2-Dichloroethane-d4
Concen: 48.722 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

Tgt Ion: 65 Resp: 113117

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.9 | 0.0 | 103.4 |



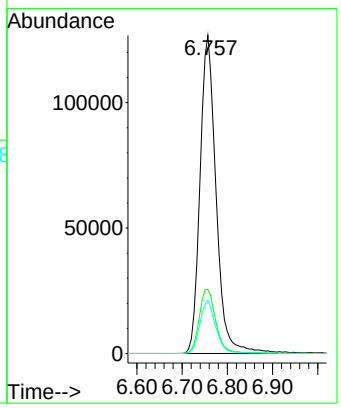


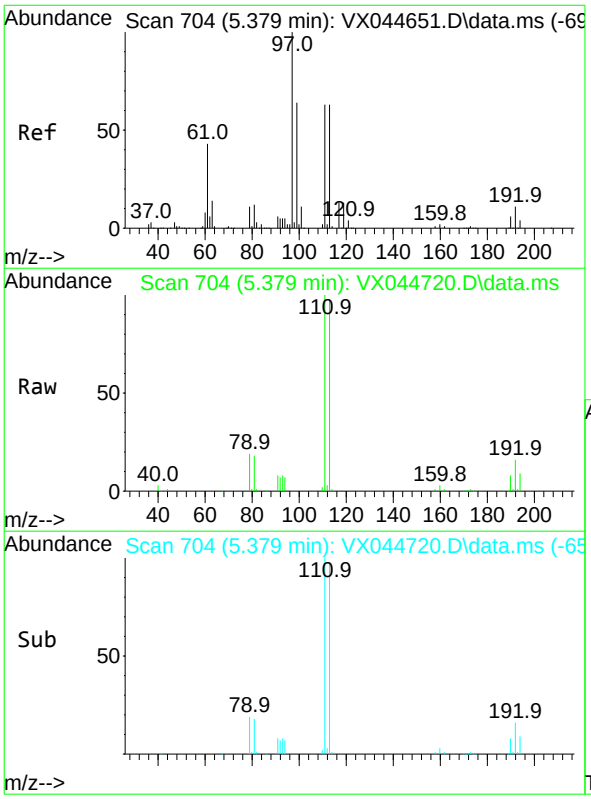

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Tgt Ion:114 Resp: 313071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.2 | 0.0 | 43.0 |
| 88 | 16.7 | 0.0 | 35.4 |

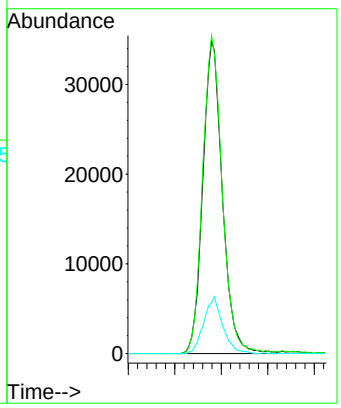


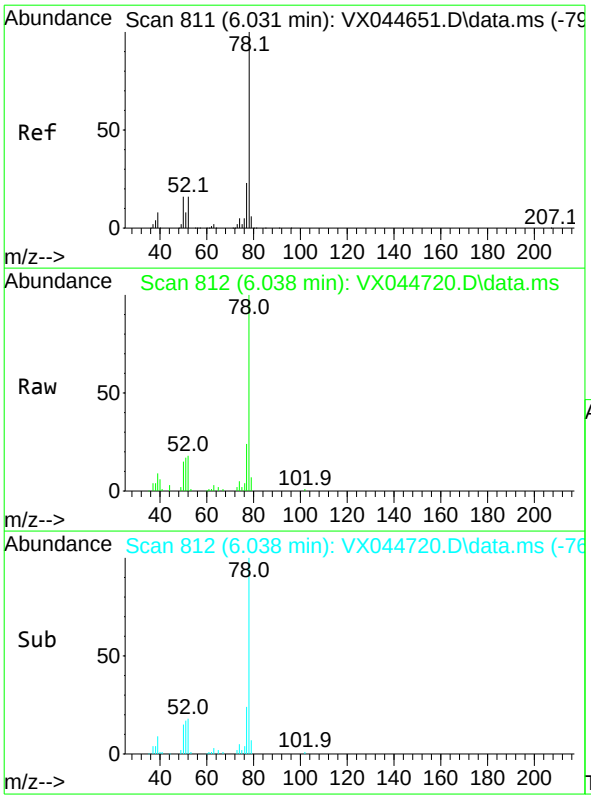




#35
Dibromofluoromethane
Concen: 51.239 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

Tgt Ion:113 Resp: 101908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 101.9 | 81.6 | 122.4 |
| 192 | 17.5 | 14.4 | 21.6 |



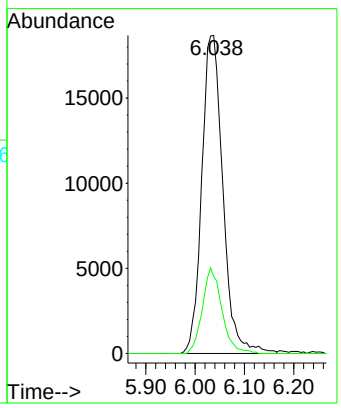


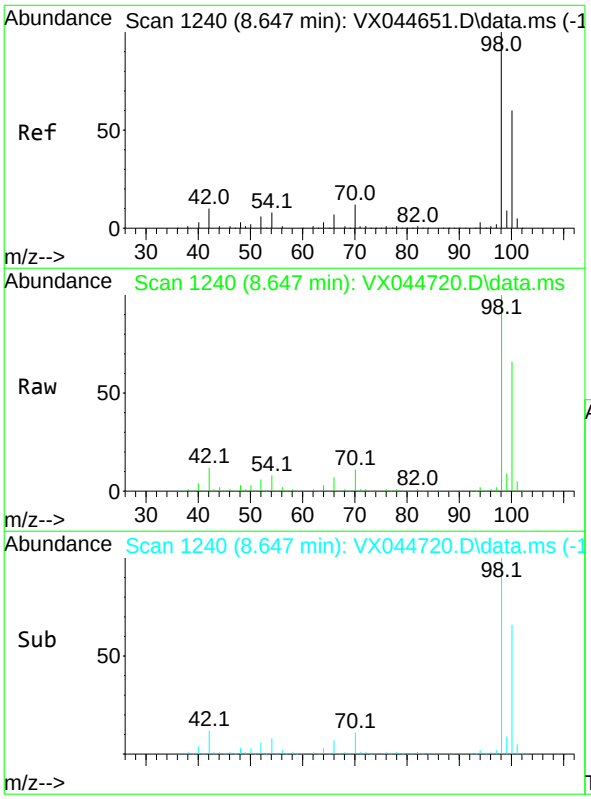

#40
Benzene
Concen: 6.474 ug/l
RT: 6.038 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Tgt Ion: 78 Resp: 55540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.7 | 28.1 |

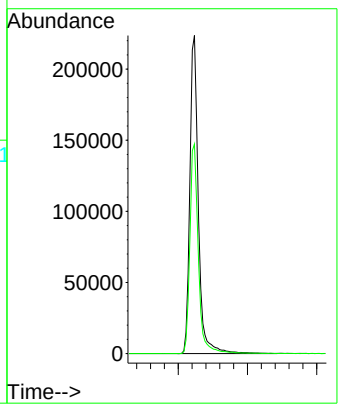


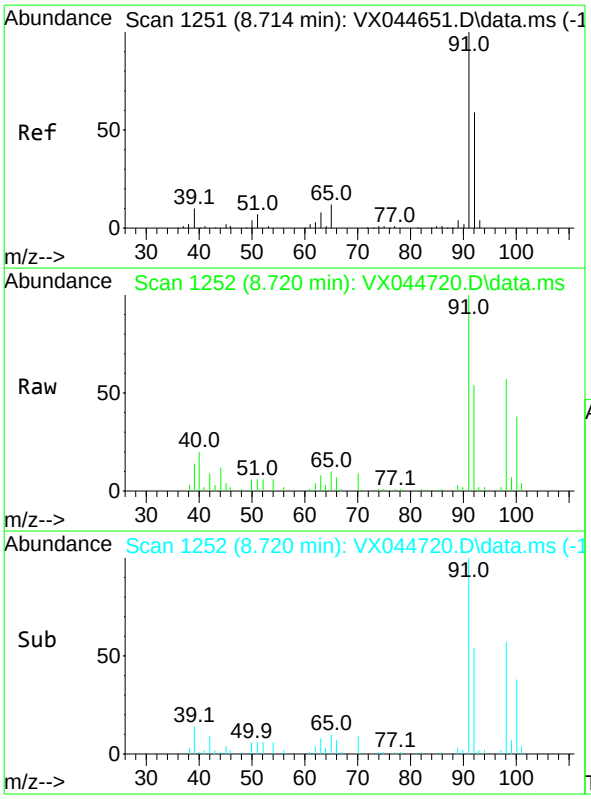




#50
Toluene-d8
Concen: 54.876 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

Tgt Ion: 98 Resp: 380557

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 53.2 | 79.8 |



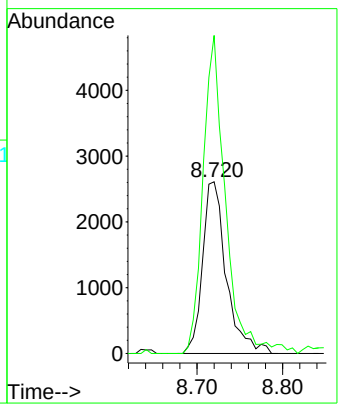


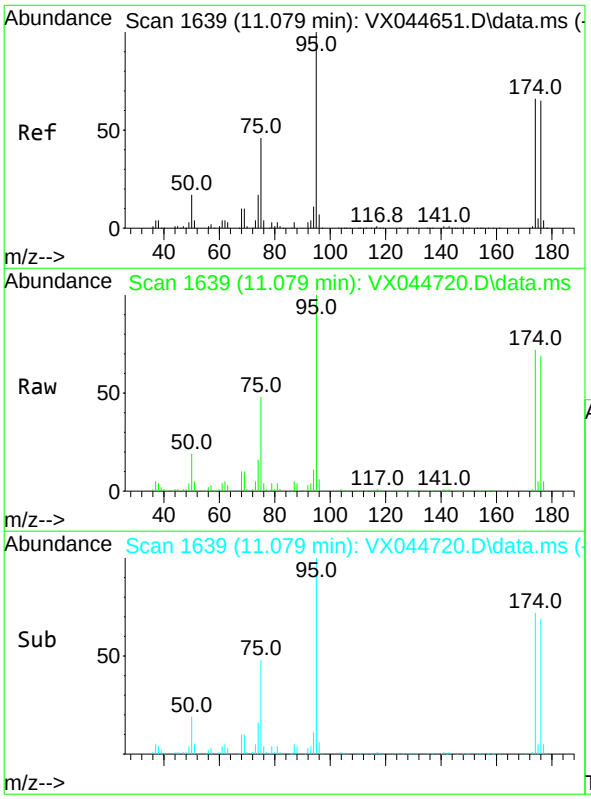

#52
Toluene
Concen: 0.956 ug/l
RT: 8.720 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Tgt Ion: 92 Resp: 5022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 175.6 | 135.7 | 203.5 |

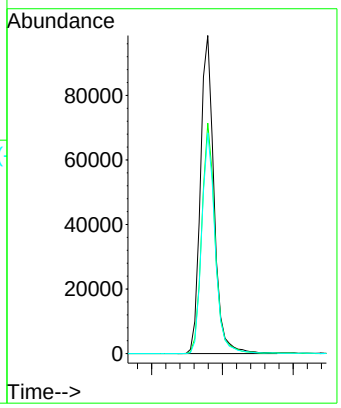


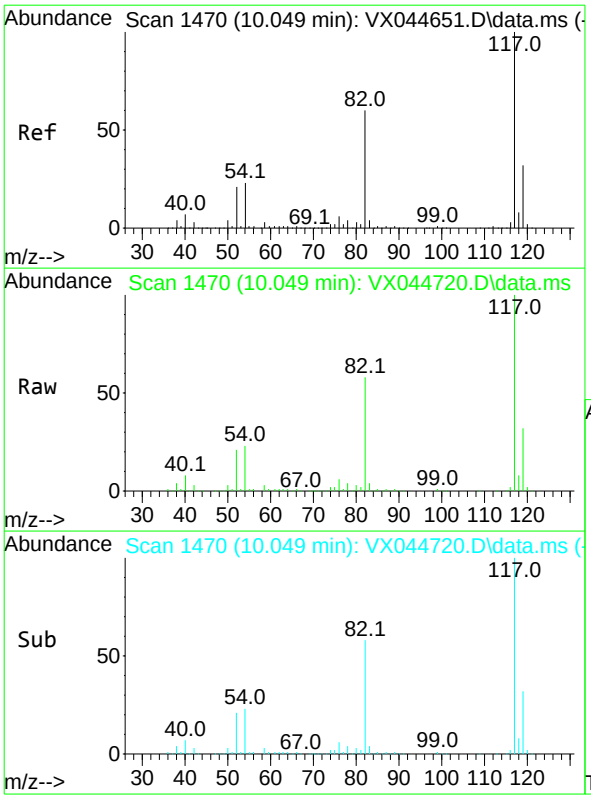




#62
4-Bromofluorobenzene
Concen: 50.881 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

Tgt Ion: 95 Resp: 131541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 71.0 | 0.0 | 133.0 |
| 176 | 68.5 | 0.0 | 129.4 |



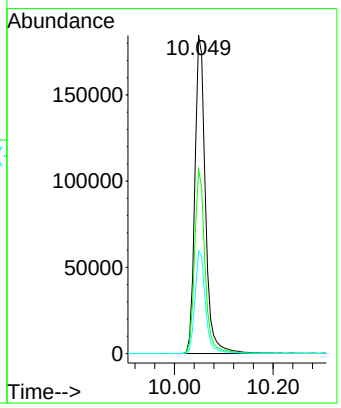


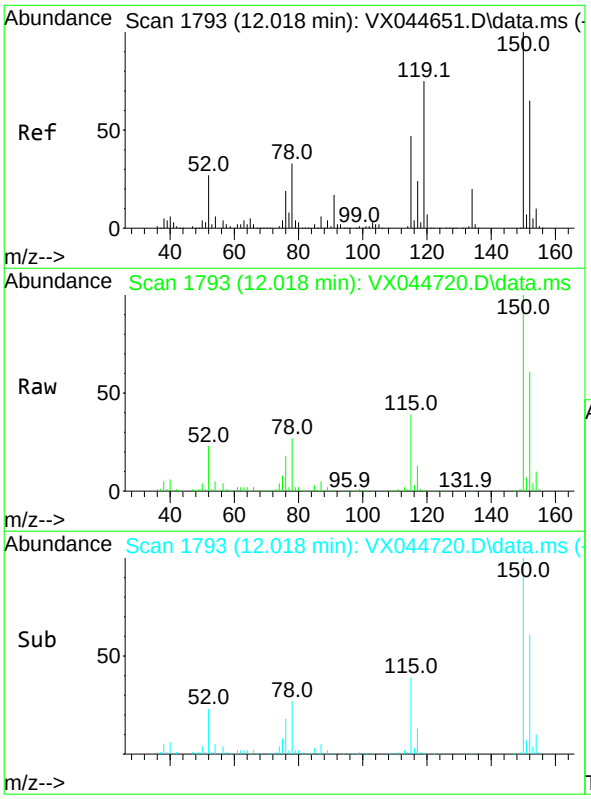

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Tgt Ion:117 Resp: 272691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.8 | 47.6 | 71.4 |
| 119 | 32.3 | 25.4 | 38.2 |

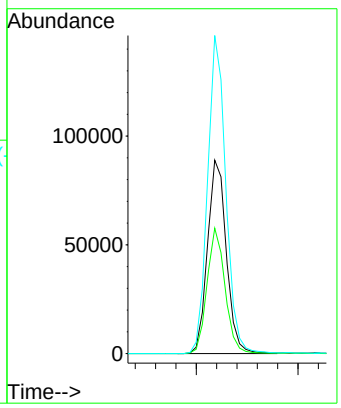



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044720.D
Acq: 27 Jan 2025 13:47

Tgt Ion:152 Resp: 114579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.9 | 43.8 | 131.4 |
| 150 | 159.4 | 0.0 | 347.8 |



Sample Results: **VX044720.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044720.D
Acq On : 27 Jan 2025 13:47
Operator : JC/MD
Sample : Q1173-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

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_X\Method\82X011525W.M
Title : SW846 8260

Signal : TIC: VX044720.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.142 | 6 | 9 | 19 | rBV3 | 7475 | 12191 | 1.24% | 0.221% |
| 2 | 1.240 | 19 | 25 | 40 | rBV | 45611 | 73527 | 7.48% | 1.331% |
| 3 | 1.447 | 56 | 59 | 63 | rBV | 13845 | 16928 | 1.72% | 0.306% |
| 4 | 1.605 | 72 | 85 | 87 | rBV8 | 5631 | 20437 | 2.08% | 0.370% |
| 5 | 2.380 | 208 | 212 | 220 | rVB | 6237 | 11471 | 1.17% | 0.208% |
| 6 | 5.379 | 692 | 704 | 721 | rBV2 | 112037 | 330001 | 33.57% | 5.973% |
| 7 | 5.544 | 721 | 731 | 748 | rBV | 157346 | 467818 | 47.59% | 8.468% |
| 8 | 5.952 | 788 | 798 | 806 | rBV | 121983 | 329506 | 33.52% | 5.964% |
| 9 | 6.031 | 806 | 811 | 828 | rVB | 42096 | 120132 | 12.22% | 2.174% |
| 10 | 6.757 | 921 | 930 | 953 | rBV | 289776 | 726725 | 73.93% | 13.154% |
| 11 | 7.598 | 1063 | 1068 | 1081 | rBV5 | 2977 | 10285 | 1.05% | 0.186% |
| 12 | 8.647 | 1233 | 1240 | 1249 | rBV | 582652 | 983023 | 100.00% | 17.793% |
| 13 | 8.714 | 1249 | 1251 | 1269 | rVB | 19429 | 42374 | 4.31% | 0.767% |
| 14 | 9.525 | 1379 | 1384 | 1393 | rBV | 33547 | 60224 | 6.13% | 1.090% |
| 15 | 10.049 | 1465 | 1470 | 1491 | rBV | 574836 | 839754 | 85.43% | 15.200% |
| 16 | 10.860 | 1599 | 1603 | 1611 | rBV3 | 8511 | 13207 | 1.34% | 0.239% |
| 17 | 11.079 | 1634 | 1639 | 1656 | rBV | 455028 | 605497 | 61.60% | 10.960% |
| 18 | 11.933 | 1773 | 1779 | 1788 | rBV2 | 18570 | 29376 | 2.99% | 0.532% |
| 19 | 12.018 | 1788 | 1793 | 1806 | rVV | 572627 | 717818 | 73.02% | 12.993% |
| 20 | 12.853 | 1925 | 1930 | 1940 | rBV2 | 54347 | 73701 | 7.50% | 1.334% |
| 21 | 13.774 | 2077 | 2081 | 2088 | rBV | 30491 | 40691 | 4.14% | 0.737% |

Sum of corrected areas: 5524686

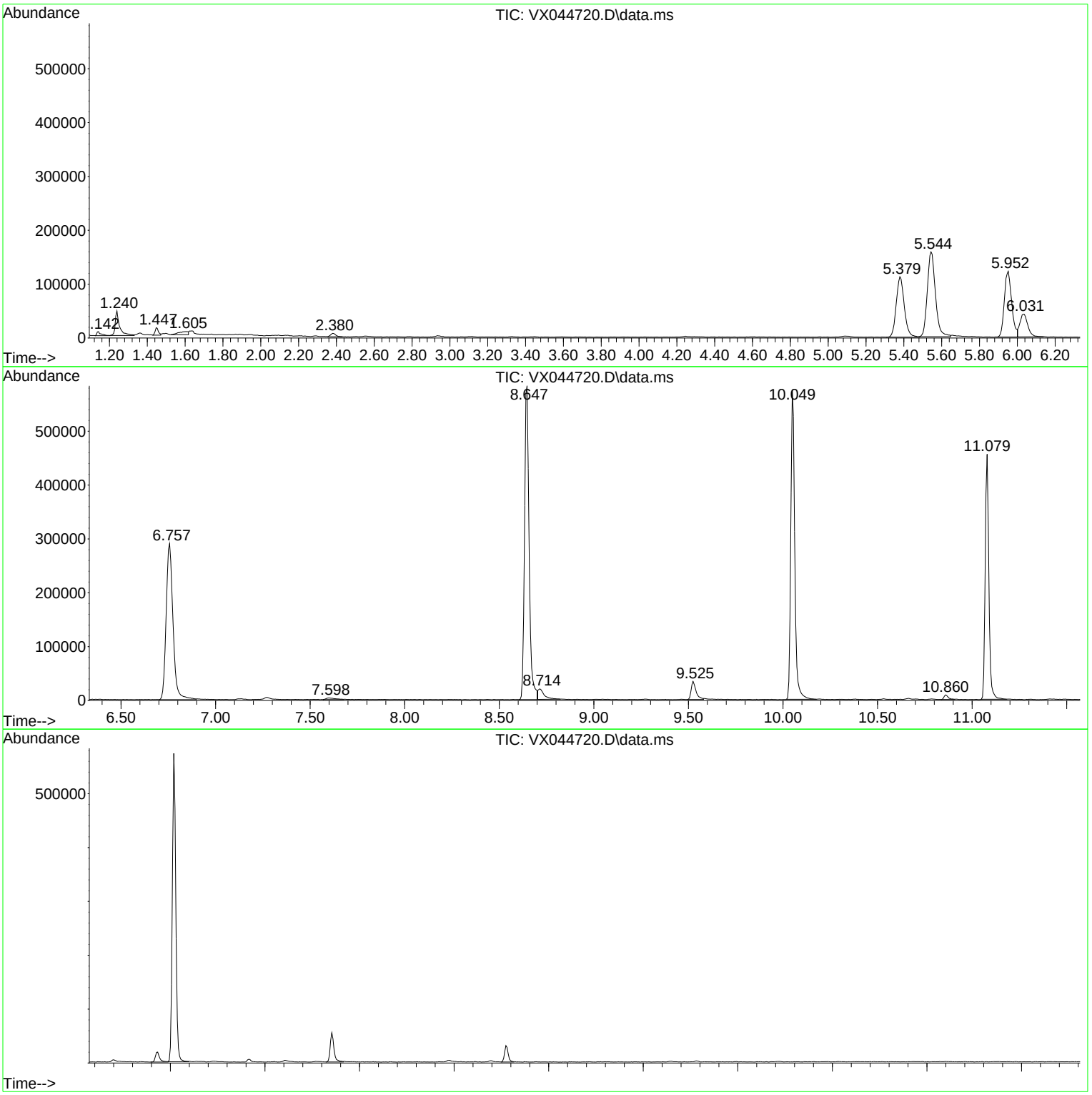
Sample Results: **VX044720.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044720.D
Acq On : 27 Jan 2025 13:47
Operator : JC/MD
Sample : Q1173-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260

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



Sample Results: **VX044720.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044720.D
Acq On : 27 Jan 2025 13:47
Operator : JC/MD
Sample : Q1173-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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_X\Data\VX012725\
Data File : VX044720.D
Acq On : 27 Jan 2025 13:47
Operator : JC/MD
Sample : Q1173-04
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-140-142

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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 |

Raw Data: **VX044721.D**

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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-200-202 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-05 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044721.D | 1 | | 01/27/25 14:09 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 74-87-3 | Chloromethane | 0.50 | U | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.75 | U | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 3.80 | U | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.75 | UQ | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U | 0.34 | 0.50 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.75 | U | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 7.10 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.50 | U | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U | 0.23 | 0.50 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.75 | U | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.68 | J | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 1.80 | | 0.32 | 0.75 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/L |

Raw Data: **VX044721.D**

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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-200-202 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-05 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044721.D | 1 | | 01/27/25 14:09 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 1.00 | U | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.50 | U | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.8 | | 81 - 118 | | 96% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.8 | | 80 - 119 | | 102% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.5 | | 89 - 112 | | 109% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.6 | | 85 - 114 | | 107% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 144000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 289000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 258000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 113000 | 12.018 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | N.D | | | | | |

Raw Data: **VX044721.D**

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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | BP-VPB-192-GW-200-202 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-05 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044721.D | 1 | | 01/27/25 14:09 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

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_X\Data\VX012725\
Data File : VX044721.D
Acq On : 27 Jan 2025 14:09
Operator : JC/MD
Sample : Q1173-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Quant Time: Jan 28 04:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

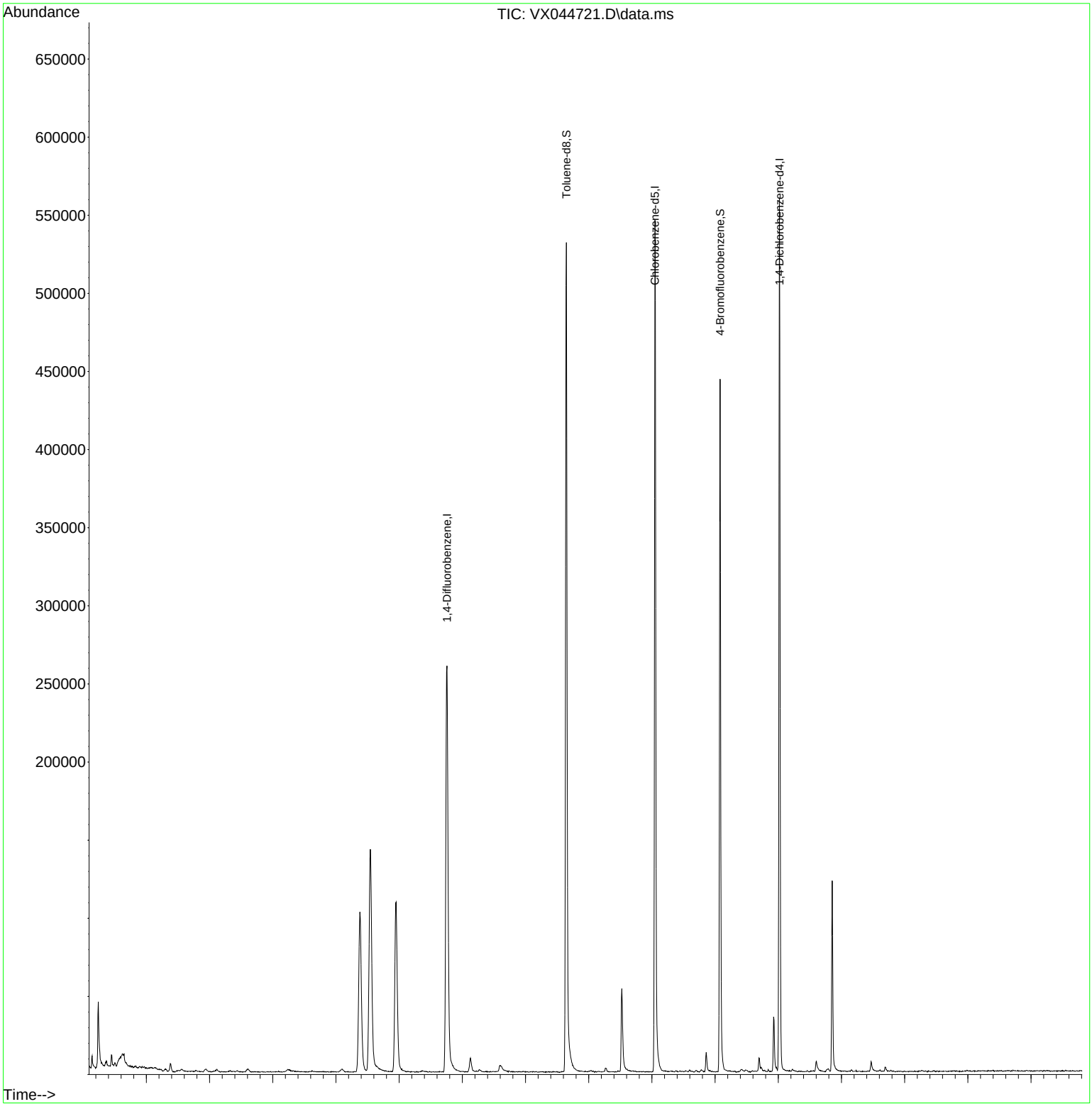
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 143949 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 289107 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 257515 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 112964 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 103939 | 47.836 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 95.680% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 93332 | 50.816 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 101.640% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 348739 | 54.456 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 108.920% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 127861 | 53.558 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 107.120% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.380 | 43 | 6091 | 7.085 | ug/l | 97 |
| 30) Chloroform | 5.099 | 83 | 2310 | 0.677 | ug/l | 99 |
| 44) Trichloroethene | 7.129 | 130 | 3350 | 1.759 | ug/l | 98 |

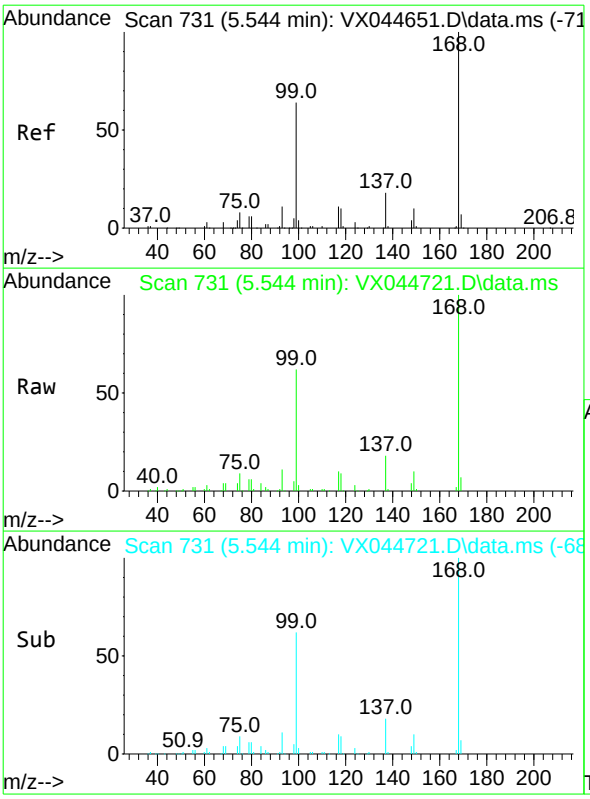
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044721.D
Acq On : 27 Jan 2025 14:09
Operator : JC/MD
Sample : Q1173-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Quant Time: Jan 28 04:12:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



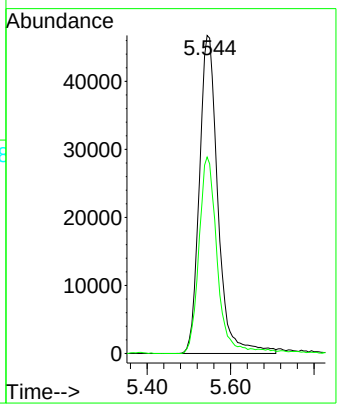


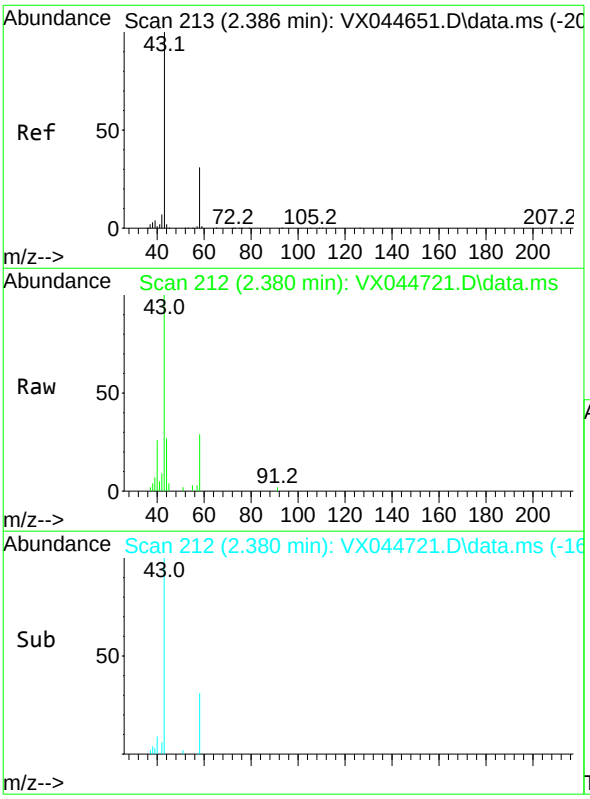

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Tgt Ion:168 Resp: 143949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.8 | 51.1 | 76.7 |

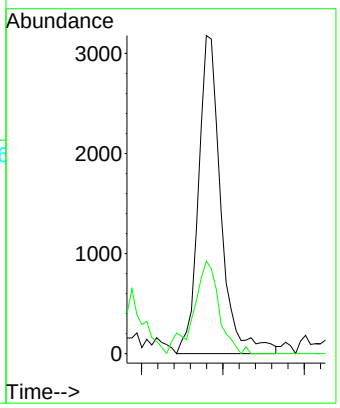


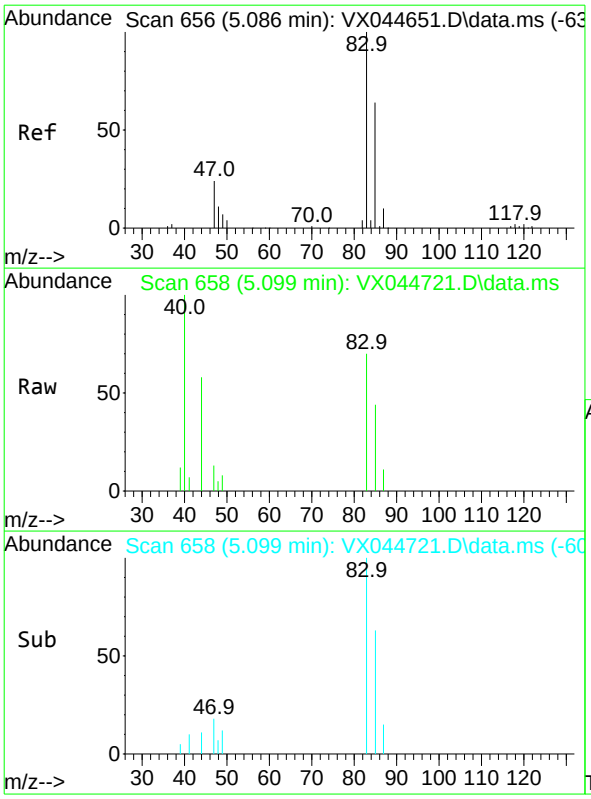




#16
Acetone
Concen: 7.085 ug/l
RT: 2.380 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

Tgt Ion: 43 Resp: 6091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.1 | 24.6 | 37.0 |



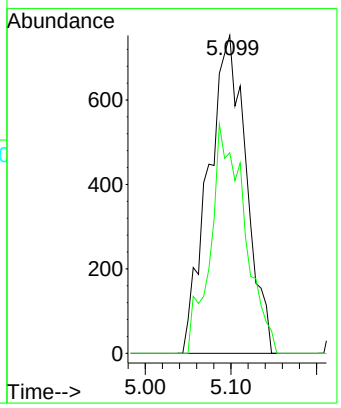


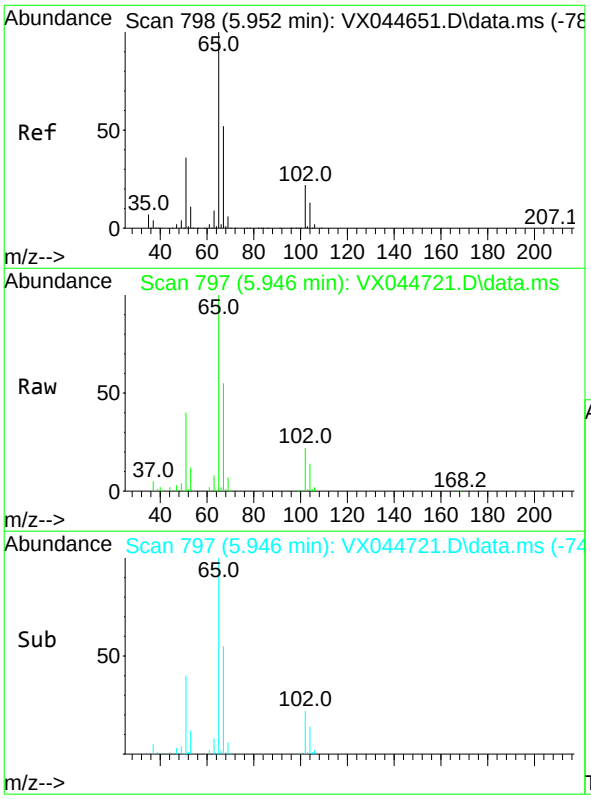

#30
Chloroform
Concen: 0.677 ug/l
RT: 5.099 min Scan# 65
Delta R.T. 0.012 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Tgt Ion: 83 Resp: 2310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.1 | 51.2 | 76.8 |

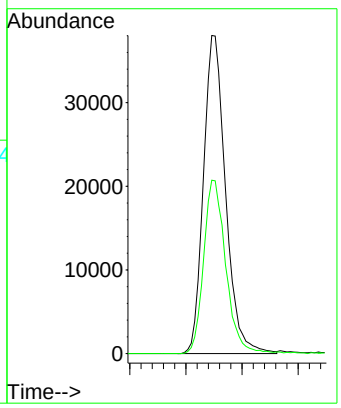


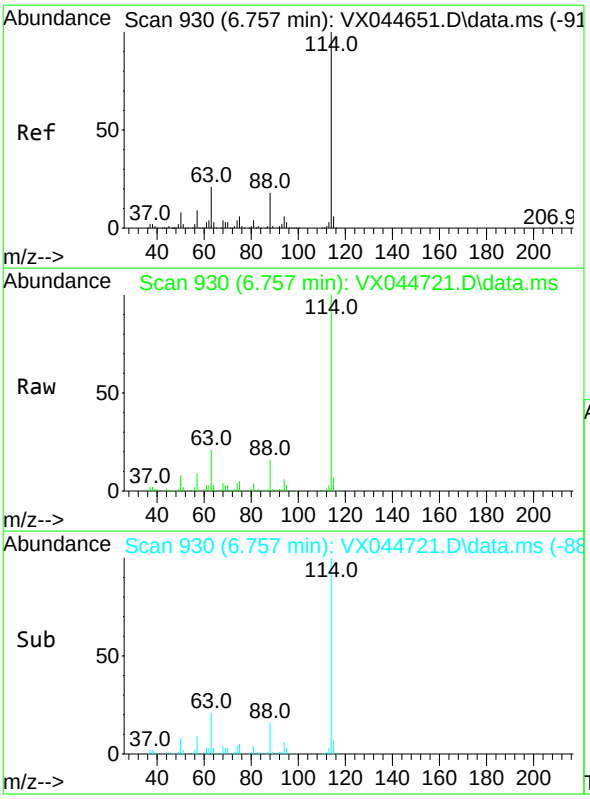




#33
1,2-Dichloroethane-d4
Concen: 47.836 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

Tgt Ion: 65 Resp: 103939

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.6 | 0.0 | 103.4 |



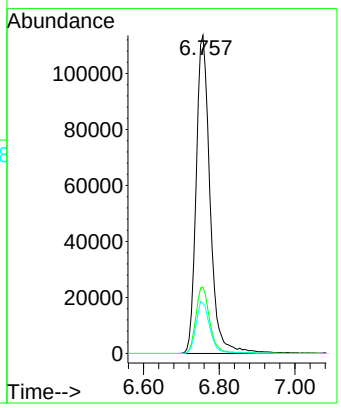


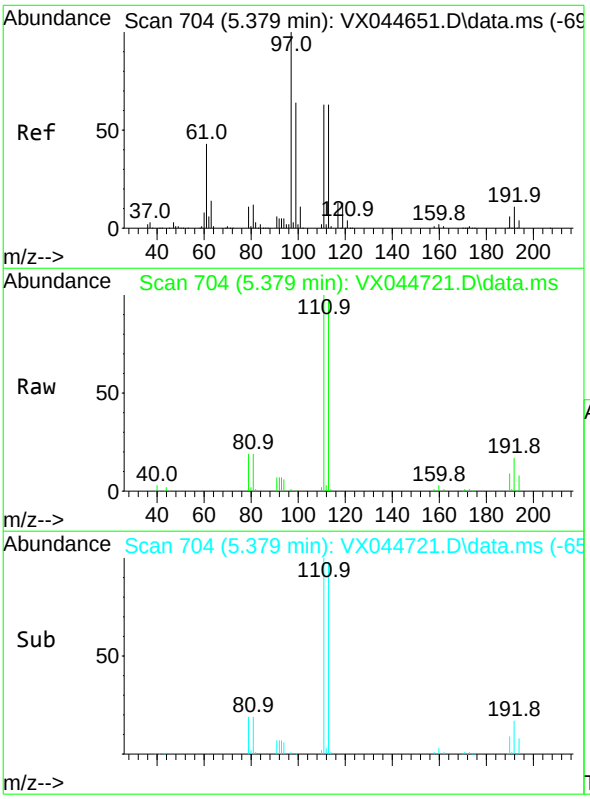

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Tgt Ion:114 Resp: 289107

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 20.9 | 0.0 | 43.0 |
| 88 | 15.8 | 0.0 | 35.4 |

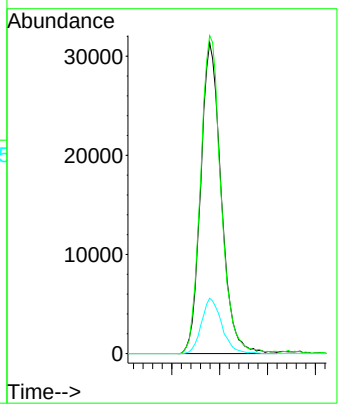


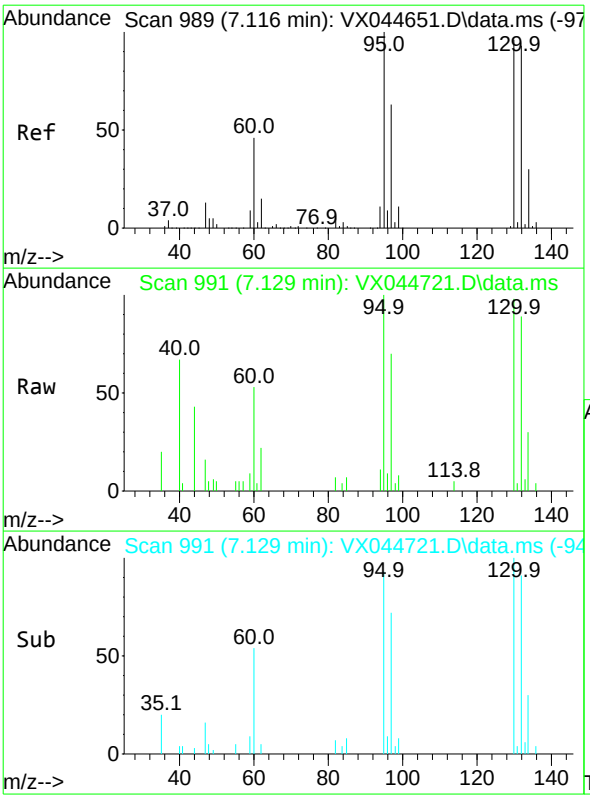




#35
Dibromofluoromethane
Concen: 50.816 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

Tgt Ion:113 Resp: 93332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.2 | 81.6 | 122.4 |
| 192 | 17.6 | 14.4 | 21.6 |



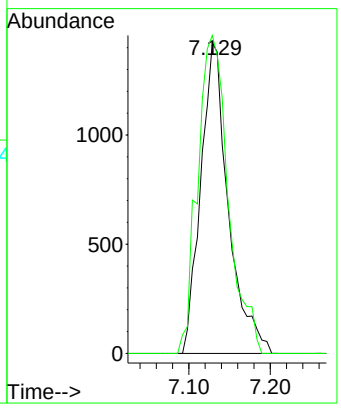


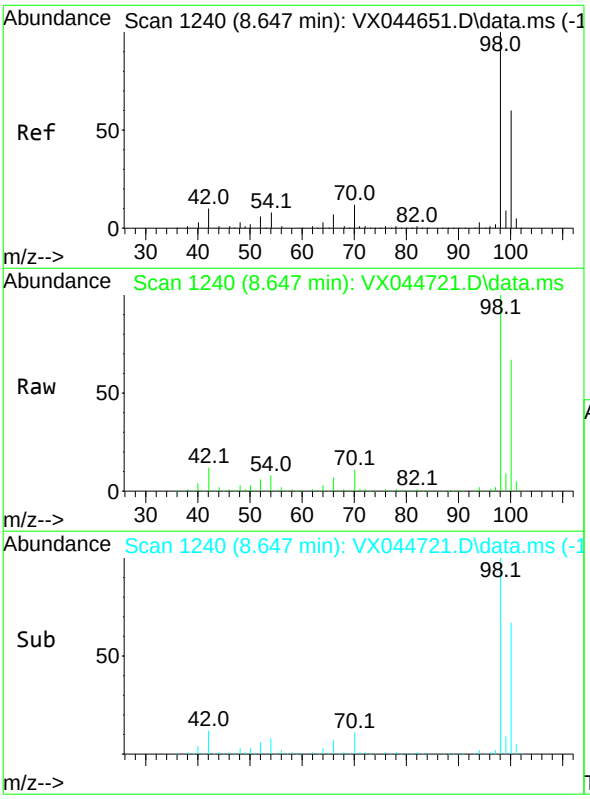

#44
Trichloroethene
Concen: 1.759 ug/l
RT: 7.129 min Scan# 99
Delta R.T. 0.012 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Tgt Ion:130 Resp: 3350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.3 | 0.0 | 208.2 |

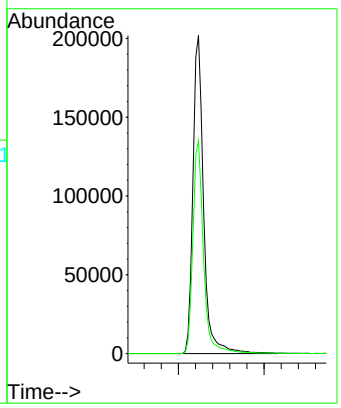


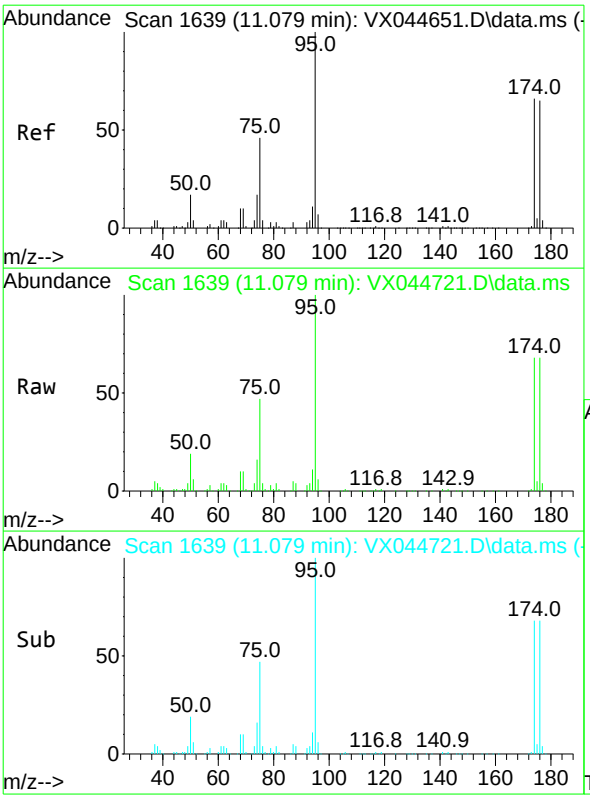




#50
Toluene-d8
Concen: 54.456 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

Tgt Ion: 98 Resp: 348739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.4 | 53.2 | 79.8 |



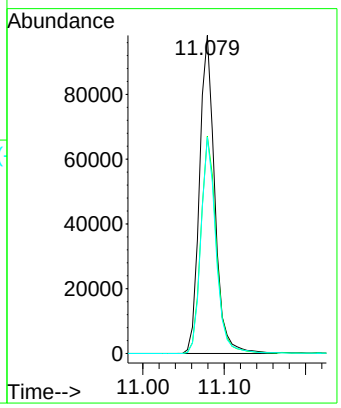


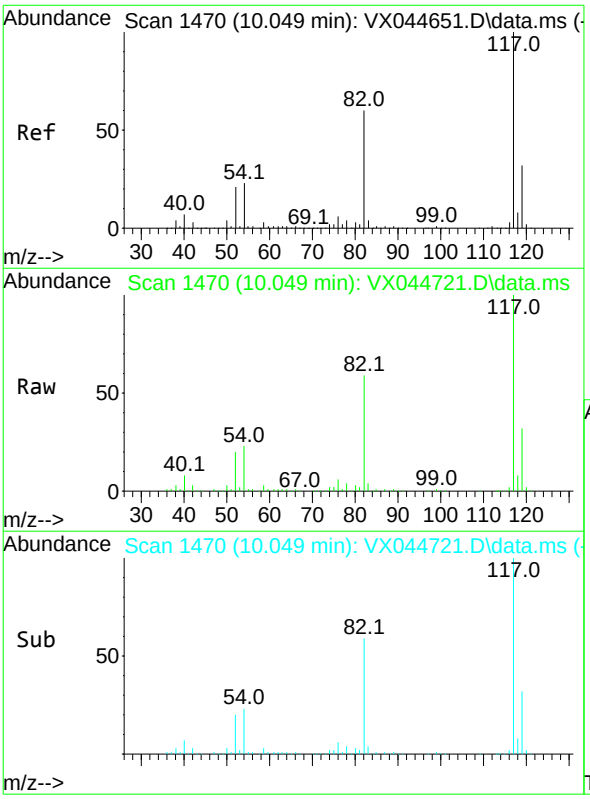

#62
4-Bromofluorobenzene
Concen: 53.558 ug/l
RT: 11.079 min Scan# 16
Delta R.T. 0.000 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Tgt Ion: 95 Resp: 127861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 68.9 | 0.0 | 133.0 |
| 176 | 67.1 | 0.0 | 129.4 |

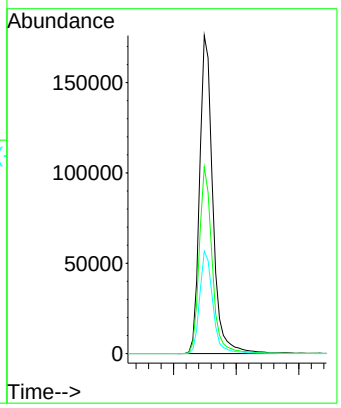


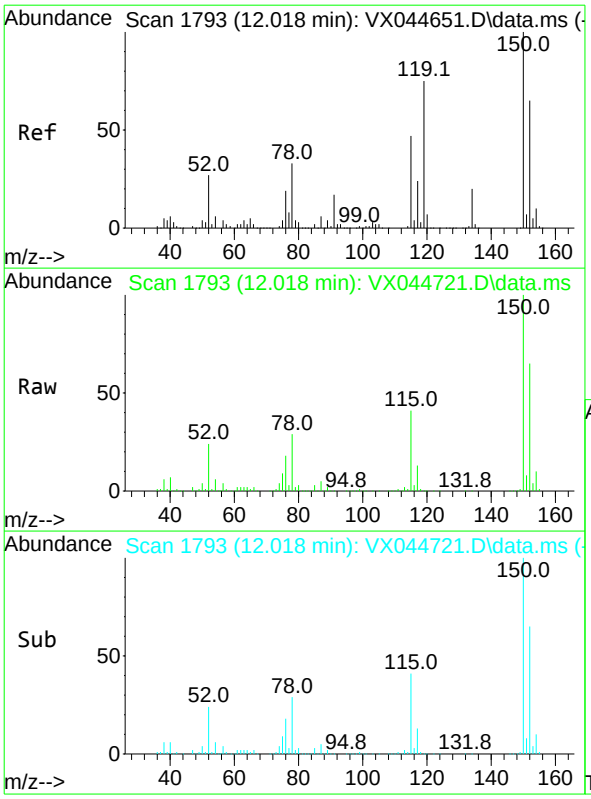




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

Tgt Ion:117 Resp: 257515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.7 | 47.6 | 71.4 |
| 119 | 32.2 | 25.4 | 38.2 |



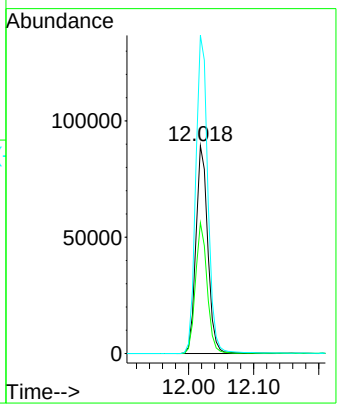



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 17
Delta R.T. 0.000 min
Lab File: VX044721.D
Acq: 27 Jan 2025 14:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Tgt Ion:152 Resp: 112964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.5 | 43.8 | 131.4 |
| 150 | 156.4 | 0.0 | 347.8 |



Sample Results: **VX044721.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044721.D
Acq On : 27 Jan 2025 14:09
Operator : JC/MD
Sample : Q1173-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

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_X\Method\82X011525W.M
Title : SW846 8260

Signal : TIC: VX044721.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.142 | 6 | 9 | 18 | rVB2 | 7993 | 10949 | 1.18% | 0.212% |
| 2 | 1.240 | 20 | 25 | 33 | rBV | 42015 | 63336 | 6.85% | 1.229% |
| 3 | 1.587 | 72 | 82 | 83 | rBV5 | 5892 | 14892 | 1.61% | 0.289% |
| 4 | 2.380 | 206 | 212 | 219 | rVB | 5386 | 9797 | 1.06% | 0.190% |
| 5 | 5.379 | 694 | 704 | 718 | rBV | 102304 | 300786 | 32.52% | 5.835% |
| 6 | 5.544 | 721 | 731 | 747 | rBV | 141469 | 418354 | 45.23% | 8.116% |
| 7 | 5.952 | 788 | 798 | 812 | rBV | 108661 | 297441 | 32.16% | 5.770% |
| 8 | 6.757 | 920 | 930 | 954 | rBV | 260019 | 666356 | 72.05% | 12.927% |
| 9 | 7.129 | 984 | 991 | 997 | rBV3 | 8796 | 19249 | 2.08% | 0.373% |
| 10 | 8.647 | 1233 | 1240 | 1267 | rBV | 530533 | 924903 | 100.00% | 17.943% |
| 11 | 9.525 | 1379 | 1384 | 1395 | rBV | 52994 | 94046 | 10.17% | 1.824% |
| 12 | 10.049 | 1465 | 1470 | 1493 | rBV | 544892 | 794836 | 85.94% | 15.419% |
| 13 | 10.860 | 1599 | 1603 | 1612 | rBV2 | 12472 | 18743 | 2.03% | 0.364% |
| 14 | 11.079 | 1634 | 1639 | 1654 | rBV | 443263 | 582312 | 62.96% | 11.297% |
| 15 | 11.695 | 1736 | 1740 | 1744 | rBV | 8292 | 11855 | 1.28% | 0.230% |
| 16 | 11.927 | 1773 | 1778 | 1788 | rBV2 | 34937 | 51096 | 5.52% | 0.991% |
| 17 | 12.018 | 1788 | 1793 | 1804 | rVV | 558468 | 699925 | 75.68% | 13.578% |
| 18 | 12.603 | 1884 | 1889 | 1897 | rBV4 | 6514 | 12994 | 1.40% | 0.252% |
| 19 | 12.853 | 1925 | 1930 | 1946 | rBV | 121899 | 151742 | 16.41% | 2.944% |
| 20 | 13.469 | 2027 | 2031 | 2041 | rBV3 | 6216 | 11160 | 1.21% | 0.216% |

Sum of corrected areas: 5154772

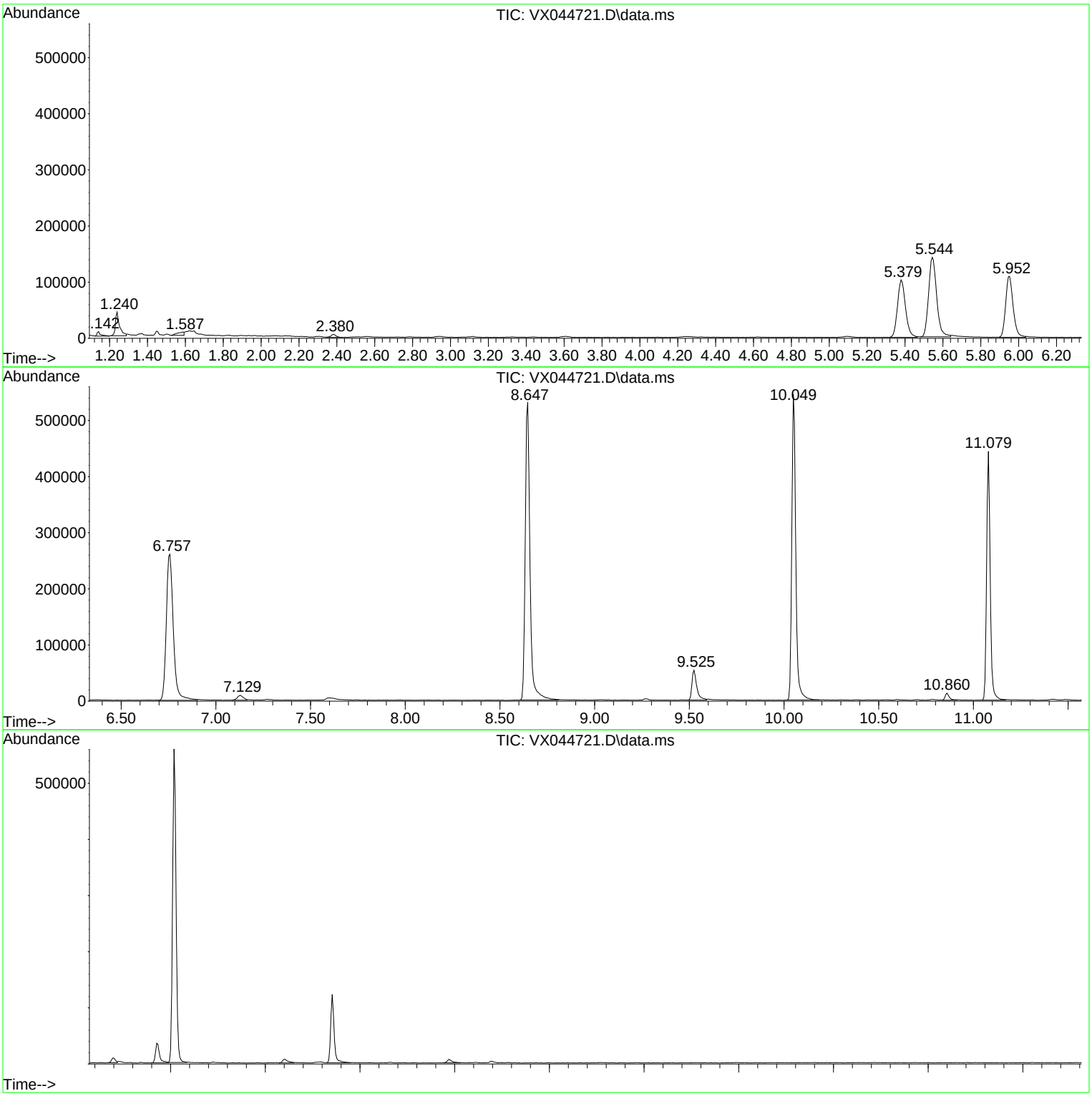
Sample Results: **VX044721.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044721.D
Acq On : 27 Jan 2025 14:09
Operator : JC/MD
Sample : Q1173-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX044721.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044721.D
Acq On : 27 Jan 2025 14:09
Operator : JC/MD
Sample : Q1173-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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_X\Data\VX012725\
Data File : VX044721.D
Acq On : 27 Jan 2025 14:09
Operator : JC/MD
Sample : Q1173-05
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 12 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BP-VPB-192-GW-200-202

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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 |

Raw Data: **VX044716.D**

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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | VPB192-HYD-20250122 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-06 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044716.D | 1 | | 01/27/25 12:15 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 74-87-3 | Chloromethane | 0.50 | U | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.75 | U | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 3.80 | U | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.75 | U | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U | 0.34 | 0.50 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.75 | U | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 1.60 | J | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.50 | U | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U | 0.23 | 0.50 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.75 | U | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.50 | U | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/L |

Raw Data: **VX044716.D**

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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | VPB192-HYD-20250122 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-06 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044716.D | 1 | | 01/27/25 12:15 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 1.30 | | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 1.00 | U | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.50 | U | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 49.6 | | 81 - 118 | | 99% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 49.8 | | 80 - 119 | | 100% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.4 | | 89 - 112 | | 109% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 53.6 | | 85 - 114 | | 107% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 143000 | 5.543 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 296000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 265000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 114000 | 12.018 | | | | |
| **TENTATIVE IDENTIFIED COMPOUNDS** | | | | | | | |
| 75-43-4 | Dichlorofluoromethane | N.D | | | | | |

Raw Data: **VX044716.D**

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: | 01/22/25 |
| Project: | CTO WE13 | Date Received: | 01/23/25 |
| Client Sample ID: | VPB192-HYD-20250122 | SDG No.: | Q1173 |
| Lab Sample ID: | Q1173-06 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044716.D | 1 | | 01/27/25 12:15 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|

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

Sample Results: **VX044716.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044716.D
Acq On : 27 Jan 2025 12:15
Operator : JC/MD
Sample : Q1173-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

Quant Time: Jan 28 04:10:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.543 | 168 | 142665 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 295520 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 265204 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 114051 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 106747 | 49.571 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 99.140% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 93503 | 49.805 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 99.600% | | | |
| 50) Toluene-d8 | 8.646 | 98 | 355777 | 54.350 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 108.700% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 130840 | 53.616 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 107.240% | | | |
| Target Compounds | | | | | | Qvalue |
| 16) Acetone | 2.379 | 43 | 1328 | 1.559 | ug/l | 98 |
| 60) Dibromochloromethane | 9.524 | 129 | 2974 | 1.264 | ug/l | 98 |

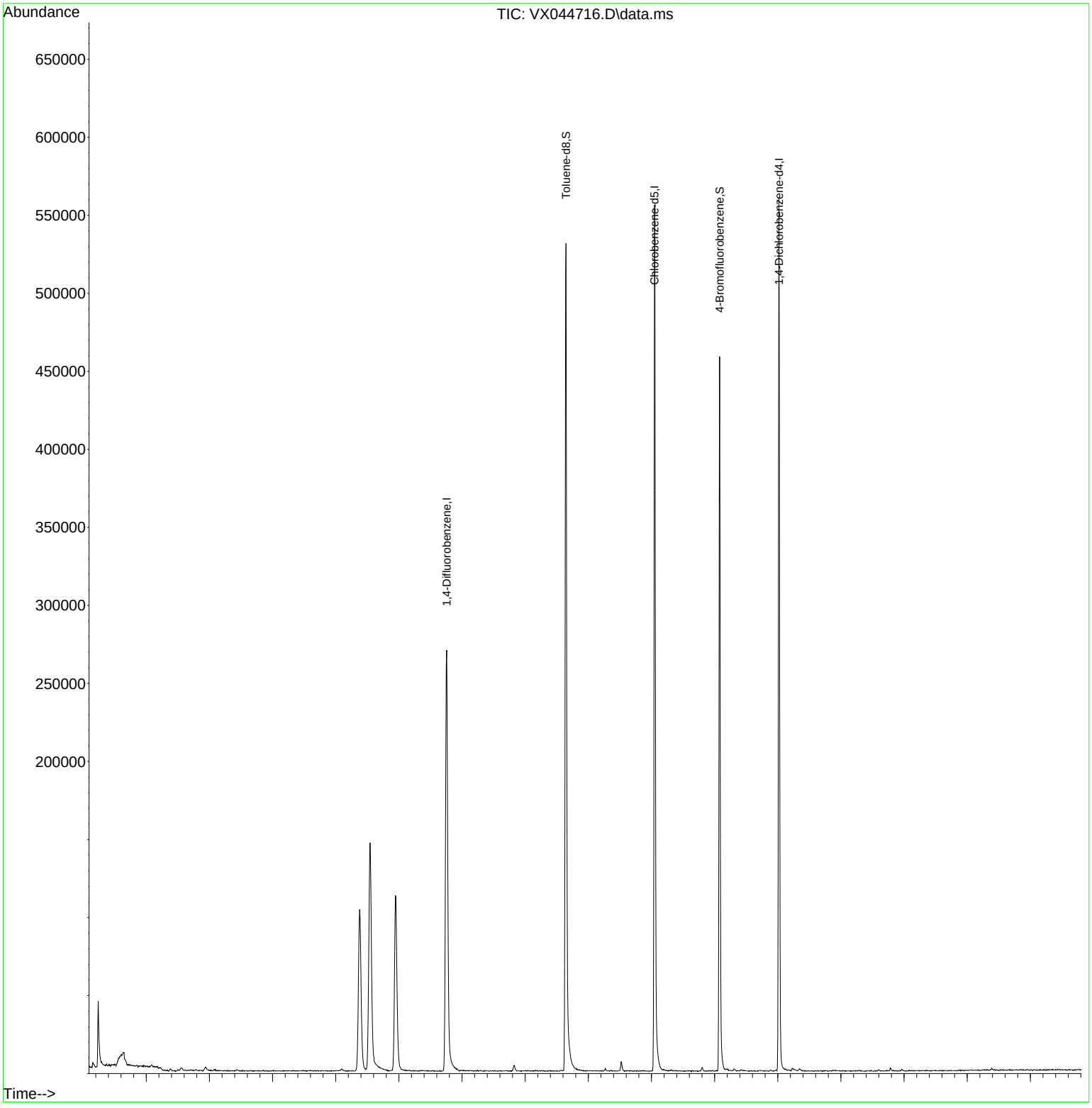
(#) = qualifier out of range (m) = manual integration (+) = signals summed

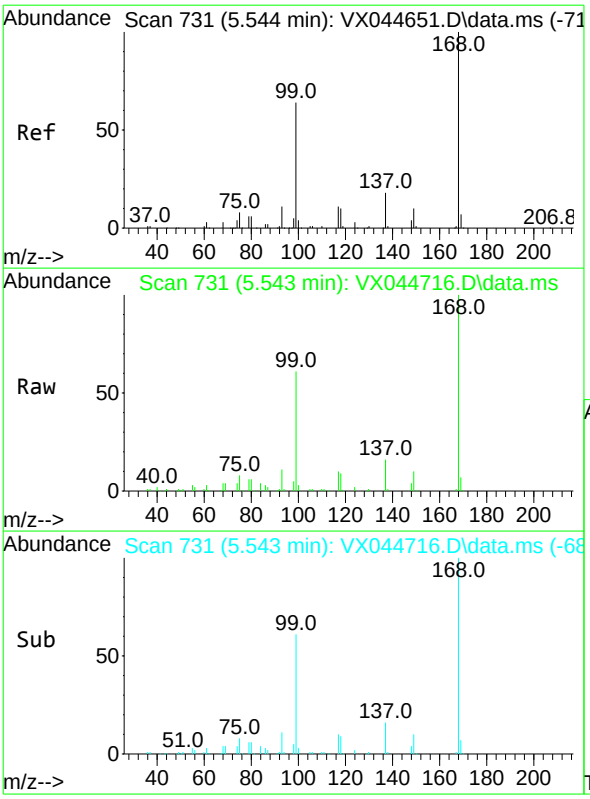
Sample Results: **VX044716.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044716.D
Acq On : 27 Jan 2025 12:15
Operator : JC/MD
Sample : Q1173-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

Quant Time: Jan 28 04:10:18 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



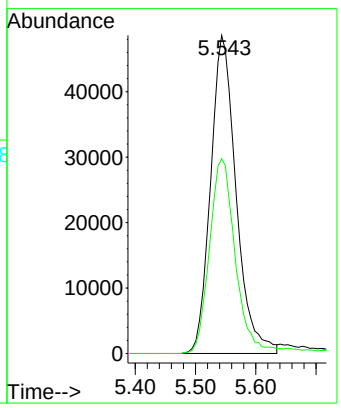


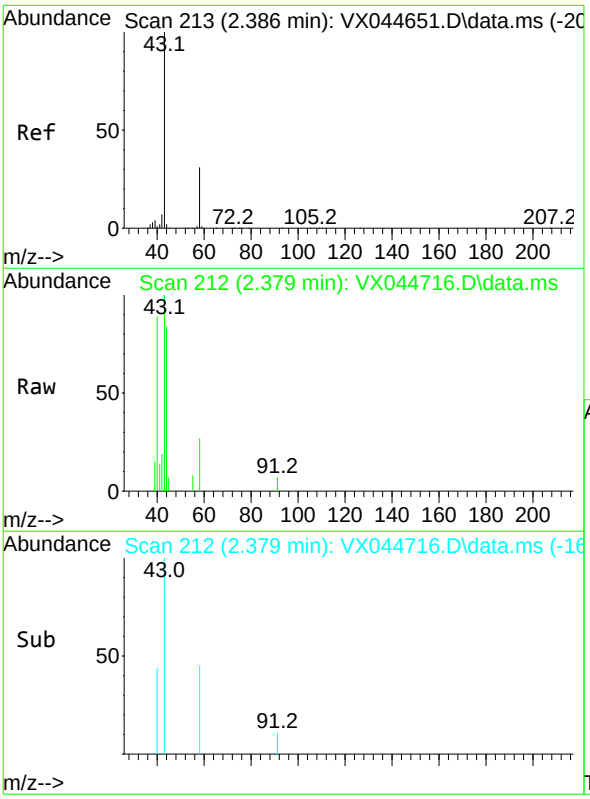

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 73
Delta R.T. -0.001 min
Lab File: VX044716.D
Acq: 27 Jan 2025 12:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

Tgt Ion:168 Resp: 142665

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.2 | 51.1 | 76.7 |

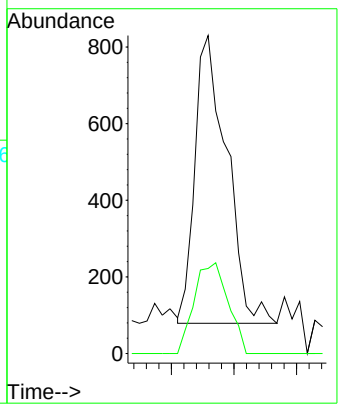


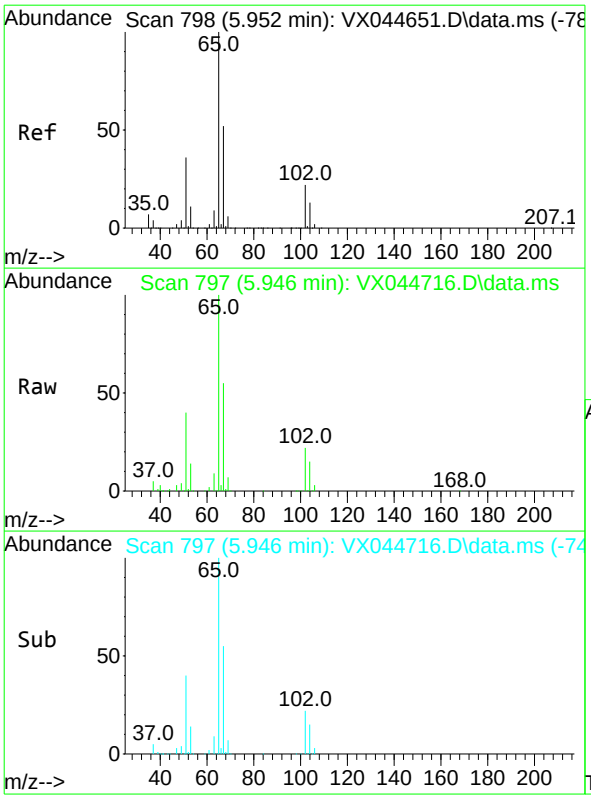




#16
Acetone
Concen: 1.559 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044716.D
Acq: 27 Jan 2025 12:15

Tgt Ion: 43 Resp: 1328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.6 | 24.6 | 37.0 |



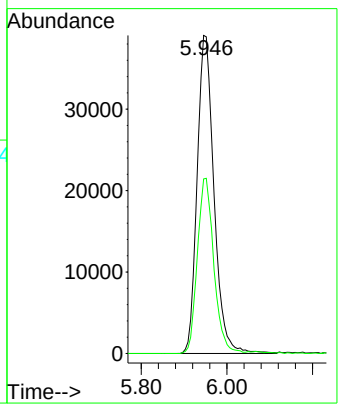


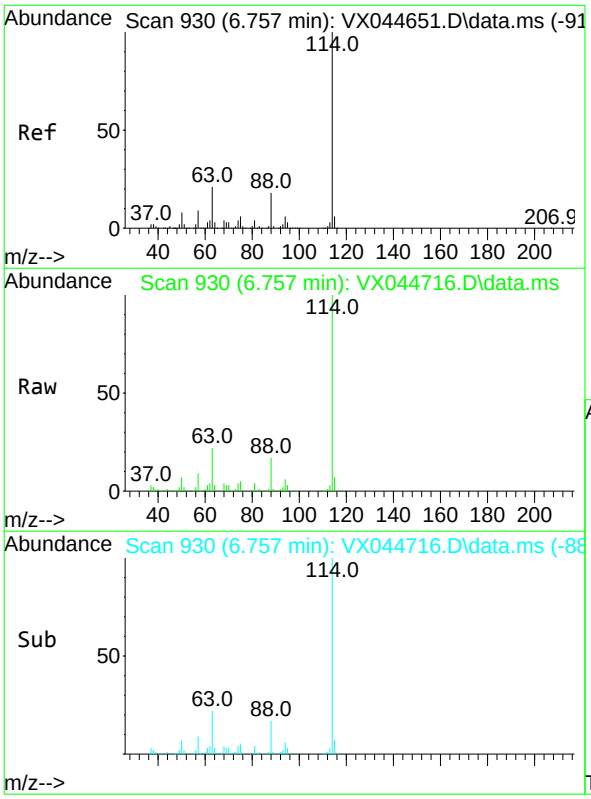

#33
1,2-Dichloroethane-d4
Concen: 49.571 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044716.D
Acq: 27 Jan 2025 12:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

Tgt Ion: 65 Resp: 106747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.9 | 0.0 | 103.4 |

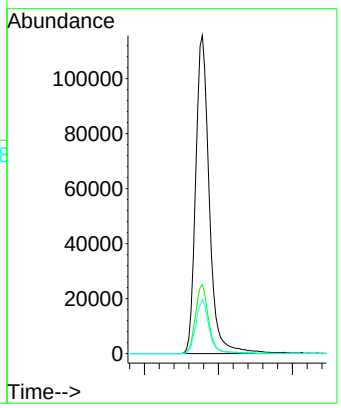


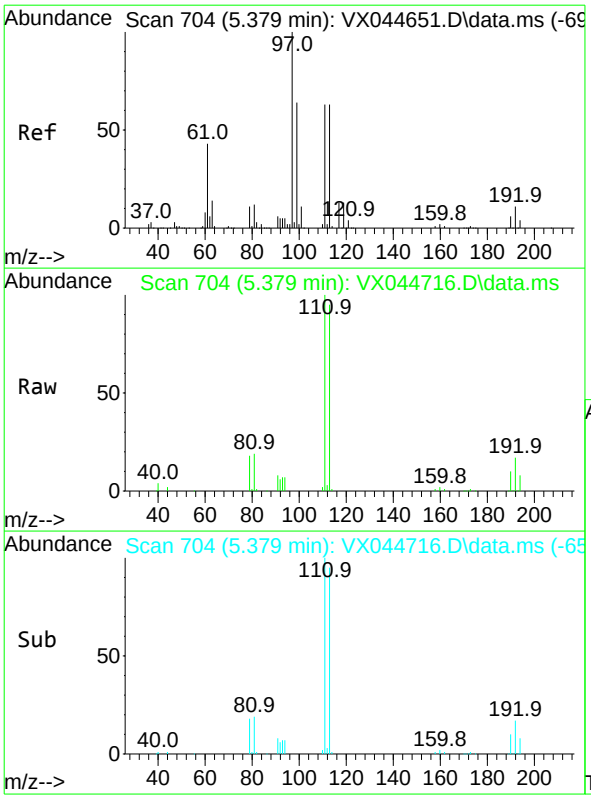




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044716.D
Acq: 27 Jan 2025 12:15

Tgt Ion:114 Resp: 295520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.7 | 0.0 | 43.0 |
| 88 | 17.1 | 0.0 | 35.4 |



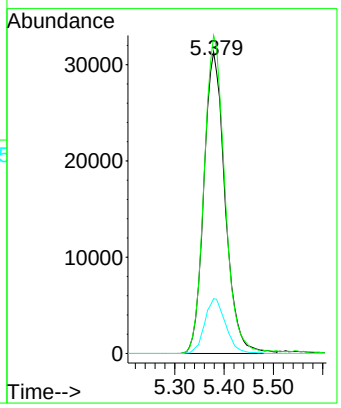


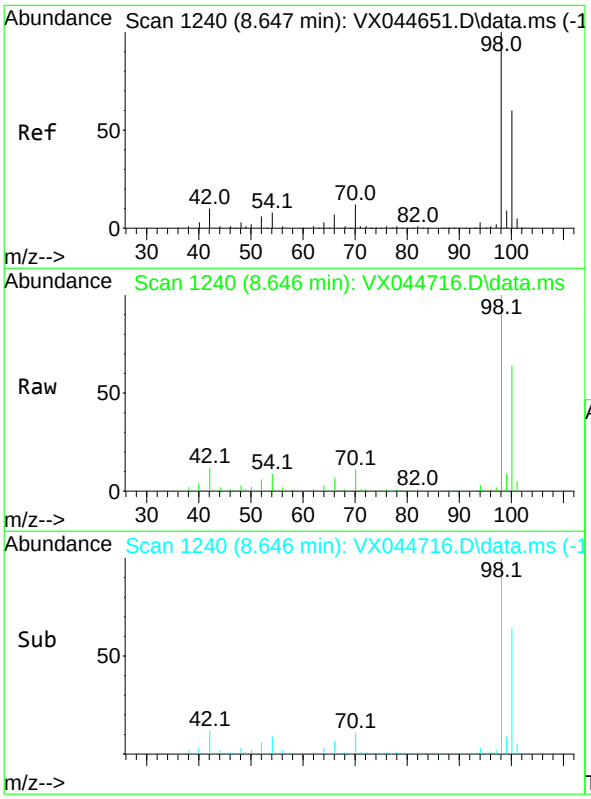

#35
Dibromofluoromethane
Concen: 49.805 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044716.D
Acq: 27 Jan 2025 12:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

Tgt Ion:113 Resp: 93503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.8 | 81.6 | 122.4 |
| 192 | 18.0 | 14.4 | 21.6 |

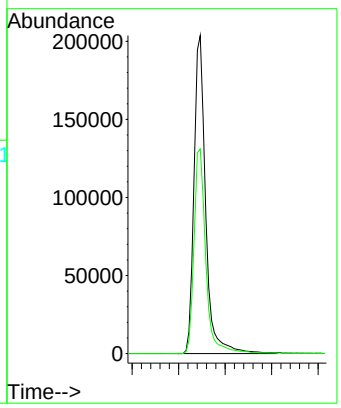


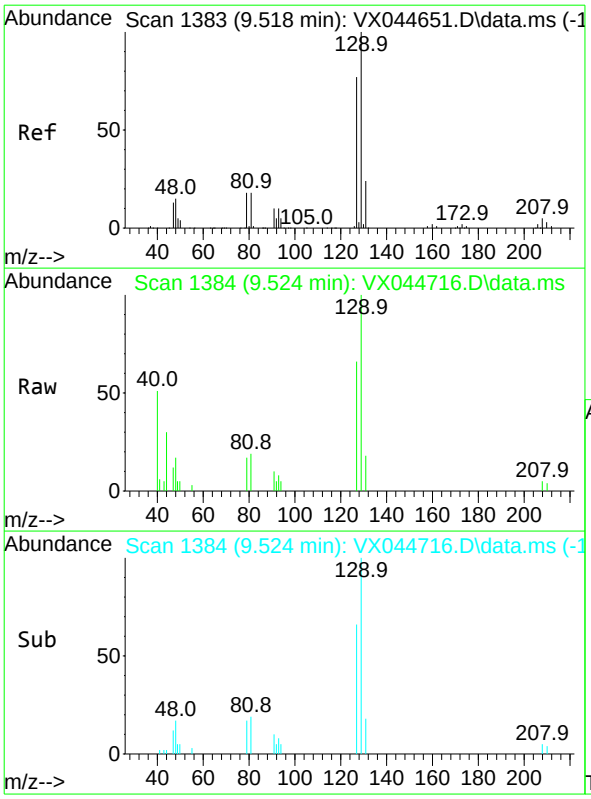




#50
Toluene-d8
Concen: 54.350 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044716.D
Acq: 27 Jan 2025 12:15

Tgt Ion: 98 Resp: 355777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.3 | 53.2 | 79.8 |



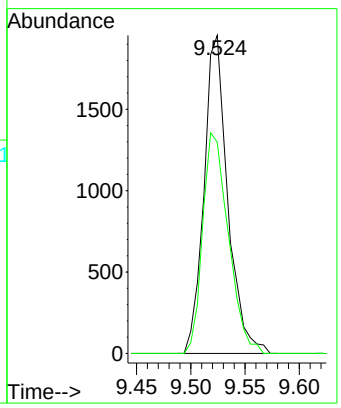


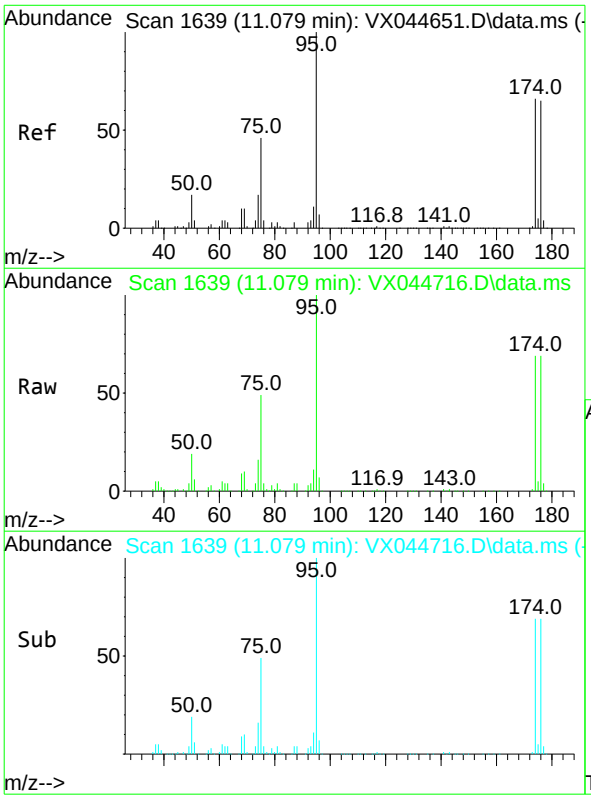

#60
Dibromochloromethane
Concen: 1.264 ug/l
RT: 9.524 min Scan# 13
Delta R.T. 0.006 min
Lab File: VX044716.D
Acq: 27 Jan 2025 12:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

Tgt Ion:129 Resp: 2974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 75.2 | 38.5 | 115.5 |

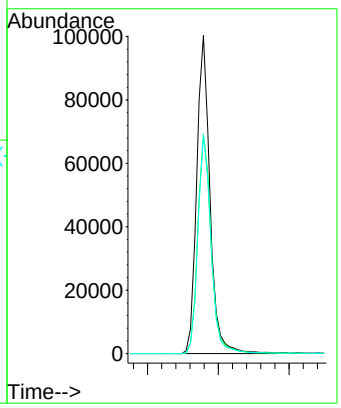


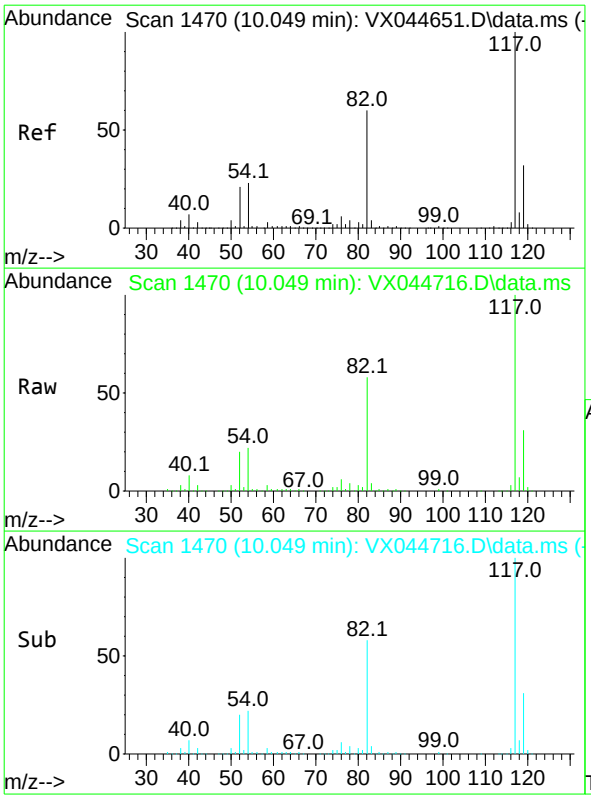




#62
4-Bromofluorobenzene
Concen: 53.616 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044716.D
Acq: 27 Jan 2025 12:15

Tgt Ion: 95 Resp: 130840

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 70.1 | 0.0 | 133.0 |
| 176 | 68.3 | 0.0 | 129.4 |



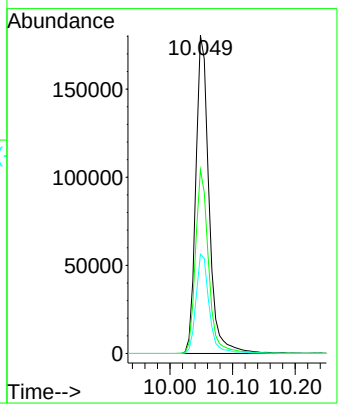


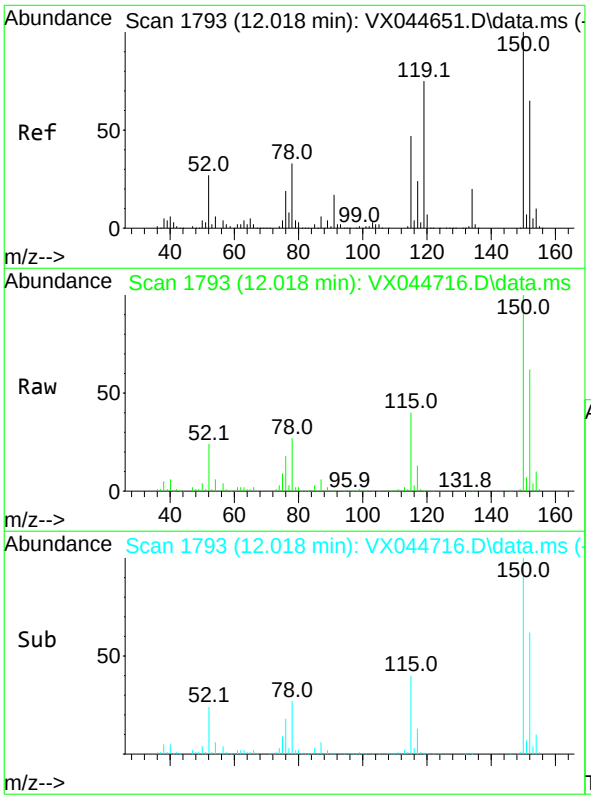

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044716.D
Acq: 27 Jan 2025 12:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

Tgt Ion:117 Resp: 265204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.7 | 47.6 | 71.4 |
| 119 | 31.2 | 25.4 | 38.2 |

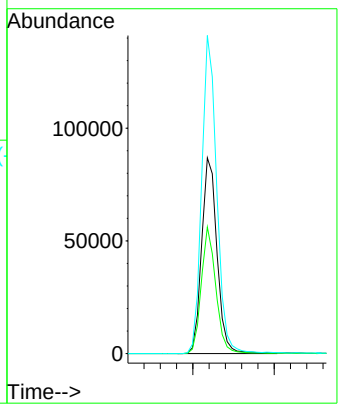



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044716.D
Acq: 27 Jan 2025 12:15

Tgt Ion:152 Resp: 114051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 61.3 | 43.8 | 131.4 |
| 150 | 157.8 | 0.0 | 347.8 |



LSC Area Percent Report

Sample Results: **VX044716.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044716.D
Acq On : 27 Jan 2025 12:15
Operator : JC/MD
Sample : Q1173-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

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_X\Method\82X011525W.M
Title : SW846 8260

Signal : TIC: VX044716.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.239 | 21 | 25 | 43 | rVV | 41883 | 62763 | 6.70% | 1.290% |
| 2 | 5.379 | 692 | 704 | 720 | rBV2 | 103504 | 305313 | 32.61% | 6.277% |
| 3 | 5.543 | 720 | 731 | 755 | rVV | 145255 | 434555 | 46.41% | 8.934% |
| 4 | 5.946 | 788 | 797 | 813 | rBV | 112044 | 301837 | 32.24% | 6.206% |
| 5 | 6.757 | 919 | 930 | 950 | rBV | 269750 | 679047 | 72.52% | 13.961% |
| 6 | 8.646 | 1233 | 1240 | 1267 | rBV | 529949 | 936350 | 100.00% | 19.251% |
| 7 | 9.524 | 1378 | 1384 | 1392 | rVB2 | 6257 | 11232 | 1.20% | 0.231% |
| 8 | 10.049 | 1465 | 1470 | 1490 | rBV | 554687 | 814612 | 87.00% | 16.748% |
| 9 | 11.079 | 1634 | 1639 | 1652 | rBV | 457815 | 598662 | 63.94% | 12.308% |
| 10 | 12.018 | 1788 | 1793 | 1808 | rBV | 559623 | 719488 | 76.84% | 14.793% |

Sum of corrected areas: 4863859

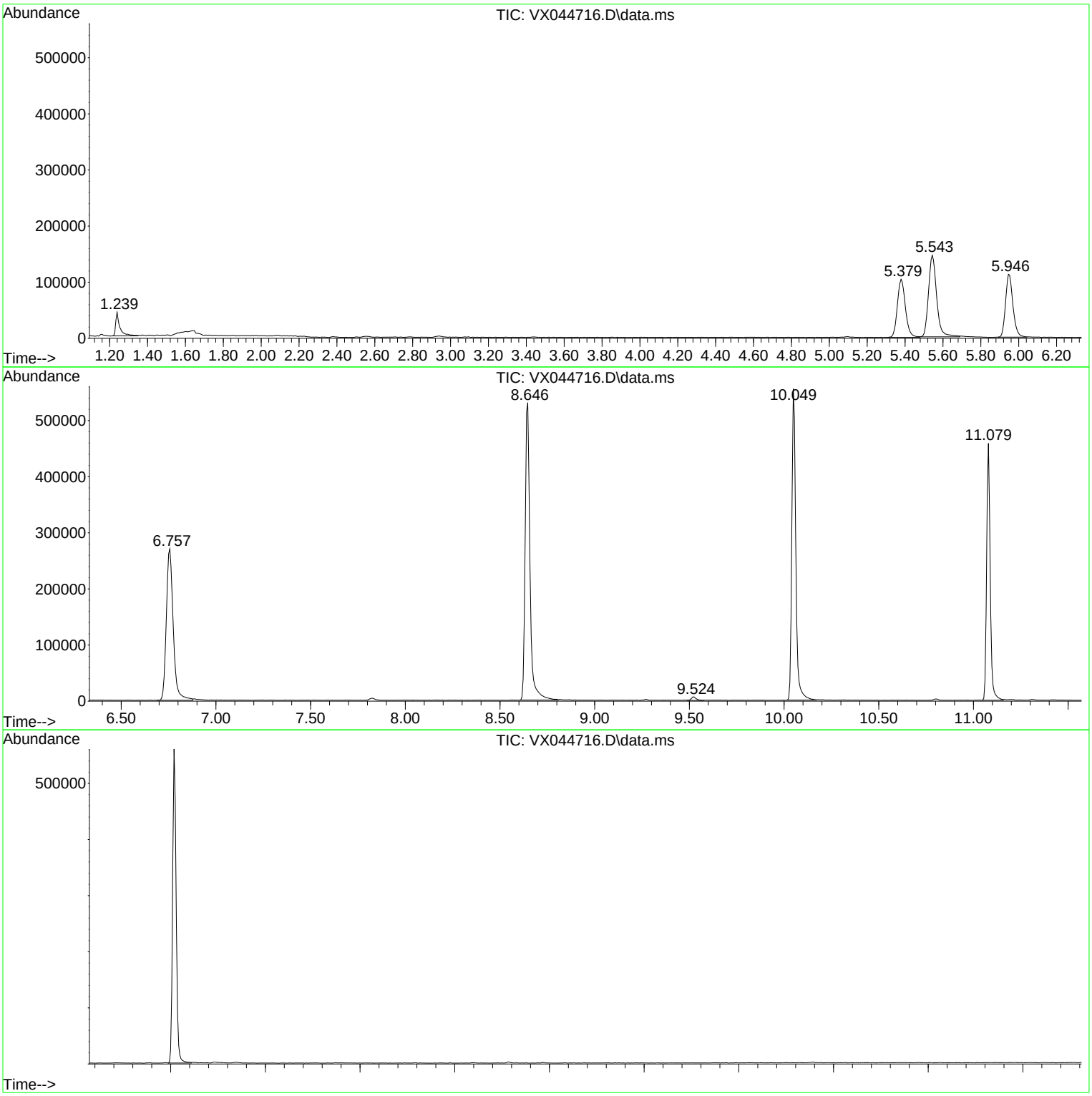
Sample Results: **VX044716.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044716.D
Acq On : 27 Jan 2025 12:15
Operator : JC/MD
Sample : Q1173-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260

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



Library Search Compound Report

Sample Results: **VX044716.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044716.D
Acq On : 27 Jan 2025 12:15
Operator : JC/MD
Sample : Q1173-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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_X\Data\VX012725\
Data File : VX044716.D
Acq On : 27 Jan 2025 12:15
Operator : JC/MD
Sample : Q1173-06
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VPB192-HYD-20250122

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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 |

# CALIBRATION SUMMARY

Raw Data

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.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:31 13:37

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX044648.D RRF005 = VX044649.D RRF020 = VX044650.D
RRF050 = VX044651.D RRF100 = VX044652.D RRF150 = VX044653.D

| COMPOUND | RRF001 | RRF005 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Chloromethane | 0.826 | 0.712 | 0.723 | 0.710 | 0.682 | 0.713 | 0.728 | 6.9 |
| Vinyl Chloride | 0.801 | 0.681 | 0.681 | 0.702 | 0.699 | 0.749 | 0.719 | 6.6 |
| Bromomethane | | 0.170 | 0.166 | 0.171 | 0.169 | 0.183 | 0.172 | 3.7 |
| Chloroethane | 0.165 | 0.123 | 0.113 | 0.117 | 0.124 | 0.149 | 0.132 | 15.7 |
| Trichlorofluoromethane | 0.859 | 0.749 | 0.755 | 0.765 | 0.808 | 0.830 | 0.795 | 5.7 |
| 1,1,2-Trichlorotrifluoroethane | 0.678 | 0.563 | 0.562 | 0.554 | 0.598 | 0.629 | 0.597 | 8.1 |
| 1,1-Dichloroethene | 0.638 | 0.546 | 0.572 | 0.566 | 0.571 | 0.618 | 0.585 | 6 |
| Acetone | 0.369 | 0.277 | 0.274 | 0.267 | 0.309 | 0.295 | 0.299 | 12.7 |
| Carbon Disulfide | 1.690 | 1.556 | 1.571 | 1.544 | 1.552 | 1.673 | 1.598 | 4.1 |
| Methyl tert-butyl Ether | 2.328 | 2.120 | 2.091 | 2.032 | 1.998 | 2.155 | 2.121 | 5.5 |
| Methylene Chloride | 0.828 | 0.699 | 0.682 | 0.650 | 0.633 | 0.679 | 0.695 | 10 |
| trans-1,2-Dichloroethene | 0.738 | 0.607 | 0.590 | 0.568 | 0.559 | 0.605 | 0.611 | 10.7 |
| 1,1-Dichloroethane | 1.251 | 1.164 | 1.161 | 1.126 | 1.111 | 1.238 | 1.175 | 4.9 |
| 2-Butanone | 0.451 | 0.444 | 0.444 | 0.426 | 0.449 | 0.450 | 0.444 | 2.1 |
| Carbon Tetrachloride | 0.585 | 0.503 | 0.468 | 0.460 | 0.465 | 0.502 | 0.497 | 9.4 |
| cis-1,2-Dichloroethene | 0.940 | 0.735 | 0.746 | 0.717 | 0.704 | 0.771 | 0.769 | 11.3 |
| Chloroform | 1.261 | 1.226 | 1.185 | 1.142 | 1.095 | 1.206 | 1.186 | 5 |
| 1,1,1-Trichloroethane | 1.393 | 1.036 | 1.037 | 0.997 | 0.991 | 1.087 | 1.090 | 14 |
| Methylcyclohexane | 0.662 | 0.555 | 0.556 | 0.551 | 0.583 | 0.614 | 0.587 | 7.5 |
| Benzene | 1.517 | 1.376 | 1.364 | 1.306 | 1.274 | 1.384 | 1.370 | 6.1 |
| 1,2-Dichloroethane | 0.552 | 0.494 | 0.491 | 0.477 | 0.473 | 0.513 | 0.500 | 5.8 |
| Trichloroethene | 0.338 | 0.319 | 0.324 | 0.316 | 0.324 | 0.355 | 0.329 | 4.5 |
| 1,2-Dichloropropane | 0.367 | 0.359 | 0.335 | 0.329 | 0.326 | 0.354 | 0.345 | 5 |
| Bromodichloromethane | 0.634 | 0.530 | 0.518 | 0.508 | 0.499 | 0.542 | 0.538 | 9.1 |
| 4-Methyl-2-Pentanone | 0.549 | 0.489 | 0.481 | 0.449 | 0.445 | 0.458 | 0.479 | 8.1 |
| Toluene | 0.941 | 0.864 | 0.849 | 0.805 | 0.769 | 0.804 | 0.839 | 7.3 |
| t-1,3-Dichloropropene | 0.578 | 0.551 | 0.564 | 0.546 | 0.537 | 0.563 | 0.556 | 2.7 |
| cis-1,3-Dichloropropene | 0.684 | 0.589 | 0.603 | 0.574 | 0.567 | 0.603 | 0.603 | 7 |
| 1,1,2-Trichloroethane | 0.401 | 0.342 | 0.341 | 0.319 | 0.312 | 0.321 | 0.339 | 9.6 |
| 2-Hexanone | 0.397 | 0.358 | 0.357 | 0.330 | 0.331 | 0.341 | 0.352 | 7.2 |

* 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.

Raw Data

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.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Calibration Time(s): 10:31 13:37

GC Column: DB-624UI ID: 0.18 (mm)

LAB FILE ID: RRF001 = VX044648.D RRF005 = VX044649.D RRF020 = VX044650.D
RRF050 = VX044651.D RRF100 = VX044652.D RRF150 = VX044653.D

| COMPOUND | RRF001 | RRF005 | RRF020 | RRF050 | RRF100 | RRF150 | $\overline{RRF}$ | % RSD |
|---|---|---|---|---|---|---|---|---|
| Dibromochloromethane | 0.449 | 0.407 | 0.399 | 0.381 | 0.369 | 0.386 | 0.398 | 7.1 |
| Tetrachloroethene | 0.346 | 0.309 | 0.299 | 0.296 | 0.308 | 0.326 | 0.314 | 5.9 |
| Chlorobenzene | 1.178 | 1.085 | 1.036 | 1.008 | 0.998 | 1.067 | 1.062 | 6.2 |
| Ethyl Benzene | 2.026 | 1.839 | 1.827 | 1.779 | 1.777 | 1.871 | 1.853 | 5 |
| m/p-Xylenes | 0.771 | 0.697 | 0.686 | 0.656 | 0.646 | 0.669 | 0.688 | 6.5 |
| o-Xylene | 0.787 | 0.713 | 0.690 | 0.665 | 0.644 | 0.674 | 0.695 | 7.3 |
| Styrene | 1.172 | 1.146 | 1.133 | 1.089 | 1.069 | 1.128 | 1.123 | 3.4 |
| Bromoform | 0.333 | 0.315 | 0.302 | 0.302 | 0.304 | 0.331 | 0.314 | 4.6 |
| Isopropylbenzene | 4.514 | 4.259 | 4.043 | 3.917 | 3.790 | 3.985 | 4.085 | 6.4 |
| 1,1,2,2-Tetrachloroethane | 1.618 | 1.510 | 1.398 | 1.302 | 1.267 | 1.370 | 1.411 | 9.4 |
| 1,3-Dichlorobenzene | 1.733 | 1.641 | 1.619 | 1.613 | 1.608 | 1.720 | 1.656 | 3.4 |
| 1,4-Dichlorobenzene | 1.911 | 1.664 | 1.606 | 1.577 | 1.579 | 1.705 | 1.674 | 7.6 |
| 1,2-Dichlorobenzene | 1.919 | 1.756 | 1.665 | 1.626 | 1.548 | 1.687 | 1.700 | 7.5 |
| 1,2-Dichloroethane-d4 | | 0.863 | 0.691 | 0.745 | 0.689 | 0.785 | 0.755 | 9.6 |
| Dibromofluoromethane | | 0.355 | 0.289 | 0.318 | 0.293 | 0.333 | 0.318 | 8.8 |
| Toluene-d8 | | 1.270 | 1.051 | 1.111 | 1.001 | 1.104 | 1.108 | 9.1 |
| 4-Bromofluorobenzene | | 0.445 | 0.394 | 0.421 | 0.383 | 0.421 | 0.413 | 6 |

* 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 MSVOA_X2

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X011525W.M
Title : SW846 8260
Last Update : Thu Jan 16 01:16:09 2025
Response Via : Initial Calibration

Calibration Files
1 =VX044648.D 5 =VX044649.D 20 =VX044650.D 50 =VX044651.D 100 =VX044652.D 150 =VX044653.D

| | | Compound | 1 | 5 | 20 | 50 | 100 | 150 | Avg | %RSD |
|---|---|---|---|---|---|---|---|---|---|---|
| 1) | I | Pentafluorobenzene | ---------- | ISTD | ---------- | | | | | |
| 2) | T | Dichlorodifluo... | 0.596 | 0.606 | 0.641 | 0.679 | 0.751 | 0.763 | 0.673 | 10.67 |
| 3) | P | Chloromethane | 0.826 | 0.712 | 0.723 | 0.710 | 0.682 | 0.713 | 0.728 | 6.88 |
| 4) | C | Vinyl Chloride | 0.801 | 0.681 | 0.681 | 0.702 | 0.699 | 0.749 | 0.719 | 6.61# |
| 5) | T | Bromomethane | | 0.170 | 0.166 | 0.171 | 0.169 | 0.183 | 0.172 | 3.73 |
| 6) | T | Chloroethane | 0.165 | 0.123 | 0.113 | 0.117 | 0.124 | 0.149 | 0.132 | 15.70 |
| 7) | T | Trichlorofluor... | 0.859 | 0.749 | 0.755 | 0.765 | 0.808 | 0.830 | 0.795 | 5.66 |
| 8) | T | Diethyl Ether | 0.394 | 0.320 | 0.304 | 0.292 | 0.292 | 0.321 | 0.321 | 11.92 |
| 9) | T | 1,1,2-Trichlor... | 0.678 | 0.563 | 0.562 | 0.554 | 0.598 | 0.629 | 0.597 | 8.15 |
| 10) | T | Methyl Iodide | | 0.818 | 0.832 | 0.808 | 0.798 | 0.822 | 0.815 | 1.59 |
| 11) | T | Tert butyl alc... | | 0.211 | 0.165 | 0.151 | 0.152 | 0.162 | 0.168 | 14.66 |
| 12) | CM | 1,1-Dichloroet... | 0.638 | 0.546 | 0.572 | 0.566 | 0.571 | 0.618 | 0.585 | 5.99# |
| 13) | T | Acrolein | | 0.113 | 0.066 | 0.068 | 0.068 | 0.080 | 0.079 | 25.32 |
| 14) | T | Allyl chloride | 1.432 | 1.117 | 1.078 | 1.049 | 1.051 | 1.112 | 1.140 | 12.83 |
| 15) | T | Acrylonitrile | 0.350 | 0.337 | 0.325 | 0.313 | 0.329 | 0.326 | 0.330 | 3.83 |
| 16) | T | Acetone | 0.369 | 0.277 | 0.274 | 0.267 | 0.309 | 0.295 | 0.299 | 12.72 |
| 17) | T | Carbon Disulfide | 1.690 | 1.556 | 1.571 | 1.544 | 1.552 | 1.673 | 1.597 | 4.11 |
| 18) | T | Methyl Acetate | 1.041 | 0.832 | 0.826 | 0.880 | 0.942 | 1.006 | 0.921 | 9.78 |
| 19) | T | Methyl tert-bu... | 2.328 | 2.120 | 2.091 | 2.032 | 1.998 | 2.155 | 2.121 | 5.49 |
| 20) | T | Methylene Chlo... | 0.828 | 0.699 | 0.682 | 0.650 | 0.633 | 0.679 | 0.695 | 9.95 |
| 21) | T | trans-1,2-Dich... | 0.738 | 0.607 | 0.590 | 0.568 | 0.559 | 0.605 | 0.611 | 10.69 |
| 22) | T | Diisopropyl ether | 2.109 | 2.041 | 1.991 | 1.901 | 1.854 | 1.993 | 1.981 | 4.67 |
| 23) | T | Vinyl Acetate | 1.848 | 1.805 | 1.757 | 1.650 | 1.637 | 1.708 | 1.734 | 4.88 |
| 24) | P | 1,1-Dichloroet... | 1.251 | 1.164 | 1.161 | 1.126 | 1.111 | 1.238 | 1.175 | 4.89 |
| 25) | T | 2-Butanone | 0.451 | 0.444 | 0.444 | 0.426 | 0.449 | 0.450 | 0.444 | 2.09 |
| 26) | T | 2,2-Dichloropr... | 1.362 | 1.129 | 1.094 | 1.054 | 1.048 | 1.145 | 1.139 | 10.20 |
| 27) | T | cis-1,2-Dichlo... | 0.940 | 0.735 | 0.746 | 0.717 | 0.704 | 0.771 | 0.769 | 11.33 |
| 28) | T | Bromochloromet... | 0.638 | 0.554 | 0.521 | 0.531 | 0.527 | 0.523 | 0.549 | 8.21 |
| 29) | T | Tetrahydrofuran | 0.319 | 0.284 | 0.280 | 0.268 | 0.280 | 0.287 | 0.286 | 6.09 |
| 30) | C | Chloroform | 1.261 | 1.226 | 1.185 | 1.142 | 1.095 | 1.206 | 1.186 | 5.02# |
| 31) | T | Cyclohexane | | 0.938 | 0.956 | 0.931 | 0.935 | 0.991 | 0.950 | 2.62 |
| 32) | T | 1,1,1-Trichlor... | 1.393 | 1.036 | 1.037 | 0.997 | 0.991 | 1.087 | 1.090 | 13.97 |
| 33) | S | 1,2-Dichloroet... | | 0.863 | 0.691 | 0.745 | 0.689 | 0.785 | 0.755 | 9.62 |
| 34) | I | 1,4-Difluorobenzene | ---------- | ISTD | ---------- | | | | | |
| 35) | S | Dibromofluorom... | | 0.355 | 0.289 | 0.318 | 0.293 | 0.333 | 0.318 | 8.75 |
| 36) | T | 1,1-Dichloropr... | 0.545 | 0.420 | 0.422 | 0.408 | 0.415 | 0.444 | 0.442 | 11.69 |
| 37) | T | Ethyl Acetate | 0.420 | 0.485 | 0.472 | 0.463 | 0.487 | 0.498 | 0.471 | 5.94 |
| 38) | T | Carbon Tetrach... | 0.585 | 0.503 | 0.468 | 0.460 | 0.465 | 0.502 | 0.497 | 9.44 |
| 39) | T | Methylcyclohexane | 0.662 | 0.555 | 0.556 | 0.551 | 0.583 | 0.614 | 0.587 | 7.49 |
| 40) | TM | Benzene | 1.517 | 1.376 | 1.364 | 1.306 | 1.274 | 1.384 | 1.370 | 6.12 |
| 41) | T | Methacrylonitrile | 0.310 | 0.277 | 0.257 | 0.254 | 0.273 | 0.274 | 0.274 | 7.24 |
| 42) | TM | 1,2-Dichloroet... | 0.552 | 0.494 | 0.491 | 0.477 | 0.473 | 0.513 | 0.500 | 5.79 |
| 43) | T | Isopropyl Acetate | 0.981 | 0.845 | 0.850 | 0.815 | 0.831 | 0.875 | 0.866 | 6.88 |
| 44) | TM | Trichloroethene | 0.338 | 0.319 | 0.324 | 0.316 | 0.324 | 0.355 | 0.329 | 4.46 |
| 45) | C | 1,2-Dichloropr... | 0.367 | 0.359 | 0.335 | 0.329 | 0.326 | 0.354 | 0.345 | 5.01# |
| 46) | T | Dibromomethane | 0.300 | 0.271 | 0.249 | 0.246 | 0.243 | 0.266 | 0.263 | 8.19 |
| 47) | T | Bromodichlorom... | 0.634 | 0.530 | 0.518 | 0.508 | 0.499 | 0.542 | 0.538 | 9.13 |
| 48) | T | Methyl methacr... | 0.389 | 0.390 | 0.408 | 0.399 | 0.403 | 0.423 | 0.402 | 3.21 |
| 49) | T | 1,4-Dioxane | 0.010 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 0.008 | 7.10 |
| 50) | S | Toluene-d8 | | 1.270 | 1.051 | 1.111 | 1.001 | 1.104 | 1.108 | 9.12 |
| 51) | T | 4-Methyl-2-Pen... | 0.549 | 0.489 | 0.481 | 0.449 | 0.445 | 0.458 | 0.479 | 8.09 |
| 52) | CM | Toluene | 0.941 | 0.864 | 0.849 | 0.805 | 0.769 | 0.804 | 0.839 | 7.25# |
| 53) | T | t-1,3-Dichloro... | 0.578 | 0.551 | 0.564 | 0.546 | 0.537 | 0.563 | 0.556 | 2.65 |
| 54) | T | cis-1,3-Dichlo... | 0.684 | 0.589 | 0.603 | 0.574 | 0.567 | 0.603 | 0.603 | 7.02 |
| 55) | T | 1,1,2-Trichlor... | 0.401 | 0.342 | 0.341 | 0.319 | 0.312 | 0.321 | 0.339 | 9.61 |
| 56) | T | Ethyl methacry... | 0.641 | 0.576 | 0.598 | 0.564 | 0.547 | 0.574 | 0.583 | 5.61 |

Method Path : Z:\voasrv\HPCHEM1\MSVOA_X\Method\
Method File : 82X011525W.M

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 57) | T | 1,3-Dichloropr... | 0.652 | 0.594 | 0.581 | 0.555 | 0.527 | 0.557 | 0.578 | 7.46 |
| 58) | T | 2-Chloroethyl ... | 0.377 | 0.281 | 0.252 | 0.273 | 0.265 | 0.271 | 0.286 | 15.86 |
| 59) | T | 2-Hexanone | 0.397 | 0.358 | 0.357 | 0.330 | 0.331 | 0.341 | 0.352 | 7.18 |
| 60) | T | Dibromochlorom... | 0.449 | 0.407 | 0.399 | 0.381 | 0.369 | 0.386 | 0.398 | 7.06 |
| 61) | T | 1,2-Dibromoethane | 0.411 | 0.361 | 0.356 | 0.337 | 0.328 | 0.341 | 0.356 | 8.36 |
| 62) | S | 4-Bromofluorob... | | 0.445 | 0.394 | 0.421 | 0.383 | 0.421 | 0.413 | 5.96 |
| 63) | I | Chlorobenzene-d5 | ----------ISTD---------- | | | | | | | |
| 64) | T | Tetrachloroethene | 0.346 | 0.309 | 0.299 | 0.296 | 0.308 | 0.326 | 0.314 | 5.92 |
| 65) | PM | Chlorobenzene | 1.178 | 1.085 | 1.036 | 1.008 | 0.998 | 1.067 | 1.062 | 6.18 |
| 66) | T | 1,1,1,2-Tetrac... | 0.420 | 0.398 | 0.376 | 0.367 | 0.361 | 0.394 | 0.386 | 5.72 |
| 67) | C | Ethyl Benzene | 2.026 | 1.839 | 1.827 | 1.779 | 1.777 | 1.871 | 1.853 | 4.96# |
| 68) | T | m/p-Xylenes | 0.771 | 0.697 | 0.686 | 0.656 | 0.646 | 0.669 | 0.688 | 6.55 |
| 69) | T | o-Xylene | 0.787 | 0.713 | 0.690 | 0.665 | 0.644 | 0.674 | 0.695 | 7.27 |
| 70) | T | Styrene | 1.172 | 1.146 | 1.133 | 1.089 | 1.069 | 1.128 | 1.123 | 3.37 |
| 71) | P | Bromoform | 0.333 | 0.315 | 0.302 | 0.302 | 0.304 | 0.331 | 0.314 | 4.58 |
| 72) | I | 1,4-Dichlorobenzen... | ----------ISTD---------- | | | | | | | |
| 73) | T | Isopropylbenzene | 4.514 | 4.259 | 4.043 | 3.917 | 3.790 | 3.985 | 4.085 | 6.40 |
| 74) | T | N-amyl acetate | 2.228 | 2.047 | 1.969 | 1.900 | 1.882 | 2.055 | 2.013 | 6.32 |
| 75) | P | 1,1,2,2-Tetrac... | 1.618 | 1.510 | 1.398 | 1.302 | 1.267 | 1.370 | 1.411 | 9.35 |
| 76) | T | 1,2,3-Trichlor... | 1.321 | 1.369 | 1.173 | 1.102 | 1.140 | 1.176 | 1.213 | 8.76 |
| 77) | T | Bromobenzene | 1.085 | 0.985 | 0.928 | 0.903 | 0.876 | 0.952 | 0.955 | 7.79 |
| 78) | T | n-propylbenzene | 4.902 | 4.366 | 4.481 | 4.392 | 4.346 | 4.541 | 4.505 | 4.63 |
| 79) | T | 2-Chlorotoluene | 3.385 | 2.964 | 2.860 | 2.763 | 2.657 | 2.831 | 2.910 | 8.73 |
| 80) | T | 1,3,5-Trimethy... | 3.707 | 3.522 | 3.312 | 3.187 | 3.057 | 3.167 | 3.325 | 7.38 |
| 81) | T | trans-1,4-Dich... | | 0.535 | 0.517 | 0.512 | 0.522 | 0.567 | 0.531 | 4.15 |
| 82) | T | 4-Chlorotoluene | 3.509 | 3.220 | 3.182 | 3.075 | 2.978 | 3.161 | 3.188 | 5.64 |
| 83) | T | tert-Butylbenzene | 4.017 | 3.693 | 3.410 | 3.304 | 3.137 | 3.300 | 3.477 | 9.27 |
| 84) | T | 1,2,4-Trimethy... | 3.967 | 3.380 | 3.346 | 3.211 | 3.097 | 3.273 | 3.379 | 9.04 |
| 85) | T | sec-Butylbenzene | 4.515 | 4.037 | 3.977 | 3.895 | 3.855 | 4.009 | 4.048 | 5.90 |
| 86) | T | p-Isopropyltol... | 3.663 | 3.337 | 3.277 | 3.222 | 3.161 | 3.303 | 3.327 | 5.29 |
| 87) | T | 1,3-Dichlorobe... | 1.733 | 1.641 | 1.619 | 1.613 | 1.608 | 1.720 | 1.656 | 3.38 |
| 88) | T | 1,4-Dichlorobe... | 1.911 | 1.664 | 1.606 | 1.577 | 1.579 | 1.705 | 1.674 | 7.58 |
| 89) | T | n-Butylbenzene | 2.992 | 2.713 | 2.770 | 2.806 | 2.878 | 2.986 | 2.857 | 4.02 |
| 90) | T | Hexachloroethane | 0.957 | 0.755 | 0.704 | 0.690 | 0.678 | 0.736 | 0.753 | 13.77 |
| 91) | T | 1,2-Dichlorobe... | 1.919 | 1.756 | 1.665 | 1.626 | 1.548 | 1.687 | 1.700 | 7.48 |
| 92) | T | 1,2-Dibromo-3-... | 0.407 | 0.355 | 0.320 | 0.310 | 0.322 | 0.356 | 0.345 | 10.33 |
| 93) | T | 1,2,4-Trichlor... | 0.956 | 0.943 | 0.945 | 1.031 | 1.061 | 1.163 | 1.016 | 8.54 |
| 94) | T | Hexachlorobuta... | 0.419 | 0.384 | 0.373 | 0.393 | 0.401 | 0.426 | 0.399 | 5.14 |
| 95) | T | Naphthalene | 4.049 | 3.759 | 3.797 | 3.814 | 3.860 | 4.244 | 3.920 | 4.80 |
| 96) | T | 1,2,3-Trichlor... | 1.058 | 0.993 | 1.006 | 1.055 | 1.055 | 1.156 | 1.054 | 5.44 |

(#) = Out of Range

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044648.D
Acq On : 15 Jan 2025 10:31
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:58:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.538 | 168 | 214233 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 389452 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 329917 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 135288 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 0.000 | 65 | 0d | 0.000 | ug/l | | |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 0.000%# | | | |
| 35) Dibromofluoromethane | 0.000 | 113 | 0d | 0.000 | ug/l | | |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 0.000%# | | | |
| 50) Toluene-d8 | 0.000 | 98 | 0d | 0.000 | ug/l | | |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 0.000%# | | | |
| 62) 4-Bromofluorobenzene | 0.000 | 95 | 0d | 0.000 | ug/l | | |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 0.000%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.167 | 85 | 2555 | 0.886 | ug/l | | 97 |
| 3) Chloromethane | 1.295 | 50 | 3539 | 1.135 | ug/l | | 96 |
| 4) Vinyl Chloride | 1.374 | 62 | 3434 | 1.115 | ug/l | # | 64 |
| 6) Chloroethane | 1.660 | 64 | 708 | 1.253 | ug/l | # | 83 |
| 7) Trichlorofluoromethane | 1.862 | 101 | 3682 | 1.082 | ug/l | | 89 |
| 8) Diethyl Ether | 2.130 | 74 | 1689 | 1.229 | ug/l | | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 2.313 | 101 | 2905 | 1.135 | ug/l | # | 88 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 2735 | 1.090 | ug/l | | 82 |
| 14) Allyl chloride | 2.654 | 41 | 6137 | 1.257 | ug/l | | 88 |
| 15) Acrylonitrile | 3.069 | 53 | 7502 | 5.306 | ug/l | | 95 |
| 16) Acetone | 2.386 | 43 | 7914 | 6.186 | ug/l | | 97 |
| 17) Carbon Disulfide | 2.496 | 76 | 7240 | 1.058 | ug/l | | 96 |
| 18) Methyl Acetate | 2.703 | 43 | 4460 | 1.130 | ug/l | | 97 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 9974 | 1.098 | ug/l | | 96 |
| 20) Methylene Chloride | 2.782 | 84 | 3548 | 1.191 | ug/l | | 94 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 3164 | 1.208 | ug/l | | 94 |
| 22) Diisopropyl ether | 3.758 | 45 | 9038 | 1.065 | ug/l | # | 76 |
| 23) Vinyl Acetate | 3.721 | 43 | 39593 | 5.328 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 5359 | 1.064 | ug/l | | 98 |
| 25) 2-Butanone | 4.574 | 43 | 9672 | 5.085 | ug/l | | 94 |
| 26) 2,2-Dichloropropane | 4.459 | 77 | 5837 | 1.196 | ug/l | | 95 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 4029 | 1.223 | ug/l | | 87 |
| 28) Bromochloromethane | 4.891 | 49 | 2733 | 1.162 | ug/l | # | 95 |
| 29) Tetrahydrofuran | 5.019 | 42 | 6842 | 5.576 | ug/l | | 98 |
| 30) Chloroform | 5.087 | 83 | 5401 | 1.063 | ug/l | | 85 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 5968 | 1.278 | ug/l | # | 47 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 4243 | 1.232 | ug/l | # | 92 |
| 37) Ethyl Acetate | 4.727 | 43 | 3269 | 0.891 | ug/l | # | 88 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 4558 | 1.177 | ug/l | | 85 |
| 39) Methylcyclohexane | 7.367 | 83 | 5156 | 1.128 | ug/l | | 98 |
| 40) Benzene | 6.025 | 78 | 11813 | 1.107 | ug/l | | 97 |
| 41) Methacrylonitrile | 4.928 | 41 | 2415m | 1.146 | ug/l | | |
| 42) 1,2-Dichloroethane | 6.092 | 62 | 4299 | 1.104 | ug/l | | 91 |
| 43) Isopropyl Acetate | 6.355 | 43 | 7640 | 1.132 | ug/l | | 96 |
| 44) Trichloroethene | 7.123 | 130 | 2633 | 1.026 | ug/l | | 91 |
| 45) 1,2-Dichloropropane | 7.434 | 63 | 2857 | 1.064 | ug/l | | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044648.D
Acq On : 15 Jan 2025 10:31
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 16 00:58:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 46) Dibromomethane | 7.580 | 93 | 2337 | 1.143 | ug/l | | 94 |
| 47) Bromodichloromethane | 7.818 | 83 | 4937 | 1.177 | ug/l | | 89 |
| 48) Methyl methacrylate | 7.702 | 41 | 3029 | 0.967 | ug/l | | 91 |
| 49) 1,4-Dioxane | 7.696 | 88 | 1485 | 22.727 | ug/l | # | 87 |
| 51) 4-Methyl-2-Pentanone | 8.580 | 43 | 21388 | 5.736 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 7332 | 1.122 | ug/l | | 93 |
| 53) t-1,3-Dichloropropene | 8.982 | 75 | 4499 | 1.038 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.373 | 75 | 5328 | 1.134 | ug/l | # | 87 |
| 55) 1,1,2-Trichloroethane | 9.153 | 97 | 3124 | 1.182 | ug/l | | 91 |
| 56) Ethyl methacrylate | 9.122 | 69 | 4994 | 1.099 | ug/l | | 89 |
| 57) 1,3-Dichloropropane | 9.311 | 76 | 5078 | 1.128 | ug/l | | 92 |
| 58) 2-Chloroethyl Vinyl ether | 8.245 | 63 | 14681 | 6.581 | ug/l | | 98 |
| 59) 2-Hexanone | 9.439 | 43 | 15480 | 5.643 | ug/l | | 98 |
| 60) Dibromochloromethane | 9.519 | 129 | 3495 | 1.127 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 3200 | 1.155 | ug/l | | 96 |
| 64) Tetrachloroethene | 9.269 | 164 | 2280 | 1.101 | ug/l | | 87 |
| 65) Chlorobenzene | 10.073 | 112 | 7770 | 1.109 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 2769 | 1.087 | ug/l | # | 62 |
| 67) Ethyl Benzene | 10.195 | 91 | 13366 | 1.093 | ug/l | | 93 |
| 68) m/p-Xylenes | 10.299 | 106 | 10180 | 2.244 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 5193 | 1.132 | ug/l | | 97 |
| 70) Styrene | 10.659 | 104 | 7732 | 1.044 | ug/l | | 93 |
| 71) Bromoform | 10.799 | 173 | 2194 | 1.058 | ug/l | # | 93 |
| 73) Isopropylbenzene | 10.964 | 105 | 12214 | 1.105 | ug/l | | 97 |
| 74) N-amyl acetate | 10.848 | 43 | 6028 | 1.107 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 11.214 | 83 | 4377 | 1.147 | ug/l | | 91 |
| 76) 1,2,3-Trichloropropane | 11.244 | 75 | 3574m | 1.119 | ug/l | | |
| 77) Bromobenzene | 11.201 | 156 | 2937 | 1.137 | ug/l | | 93 |
| 78) n-propylbenzene | 11.305 | 91 | 13264 | 1.088 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 11.366 | 91 | 9159 | 1.163 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 10031 | 1.115 | ug/l | | 97 |
| 82) 4-Chlorotoluene | 11.457 | 91 | 9494 | 1.101 | ug/l | | 93 |
| 83) tert-Butylbenzene | 11.713 | 119 | 10869 | 1.155 | ug/l | | 96 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 10735 | 1.174 | ug/l | | 94 |
| 85) sec-Butylbenzene | 11.890 | 105 | 12217 | 1.115 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.012 | 119 | 9910 | 1.101 | ug/l | | 90 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 4688 | 1.046 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 12.037 | 146 | 5172m | 1.163 | ug/l | | |
| 89) n-Butylbenzene | 12.335 | 91 | 8095 | 1.047 | ug/l | | 94 |
| 90) Hexachloroethane | 12.536 | 117 | 2589 | 1.270 | ug/l | | 92 |
| 91) 1,2-Dichlorobenzene | 12.341 | 146 | 5192 | 1.128 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75 | 1100 | 1.178 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 13.591 | 180 | 2587 | 0.941 | ug/l | | 92 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 1133 | 1.049 | ug/l | | 91 |
| 95) Naphthalene | 13.780 | 128 | 10956 | 1.033 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.963 | 180 | 2863 | 1.004 | ug/l | | 96 |

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

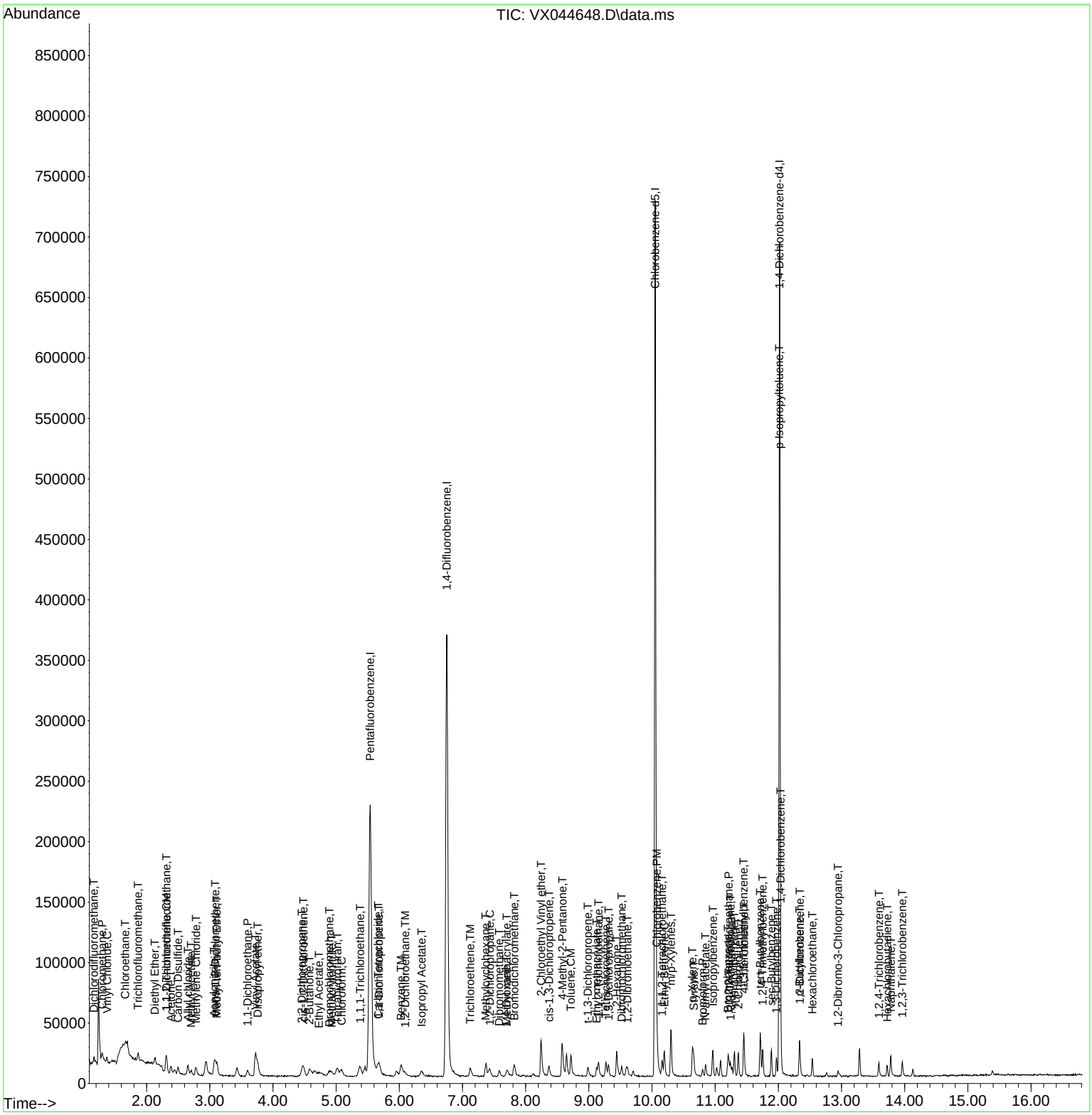
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044648.D
Acq On : 15 Jan 2025 10:31
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

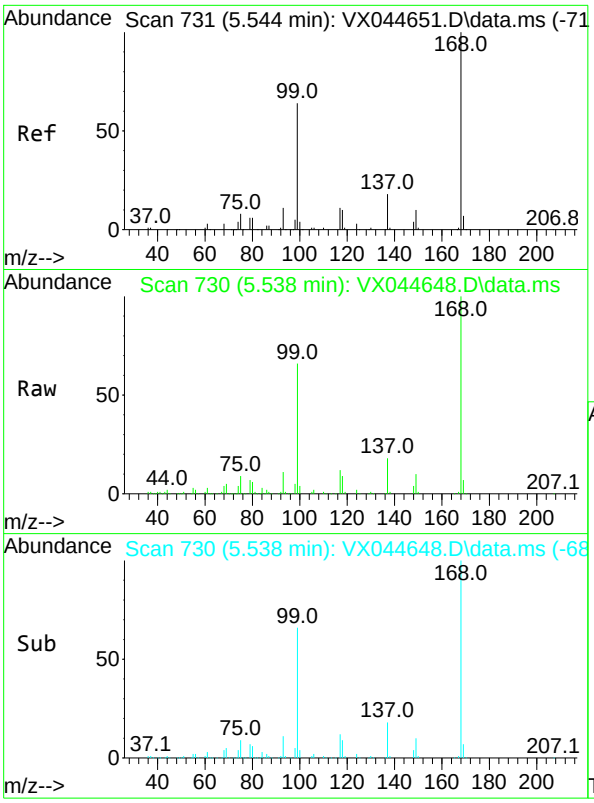
Quant Time: Jan 16 00:58:03 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

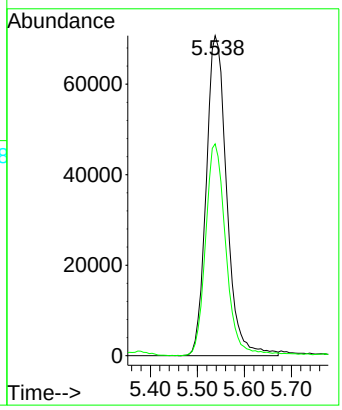





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:168 Resp: 21423

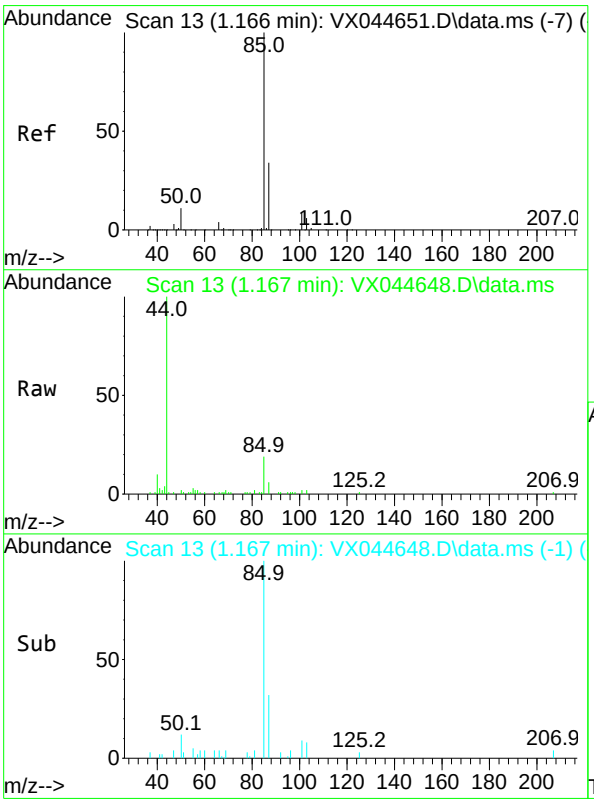
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.1 | 51.1 | 76.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

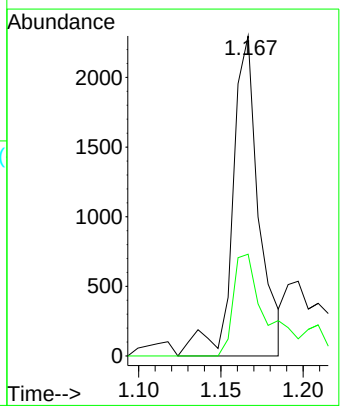
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

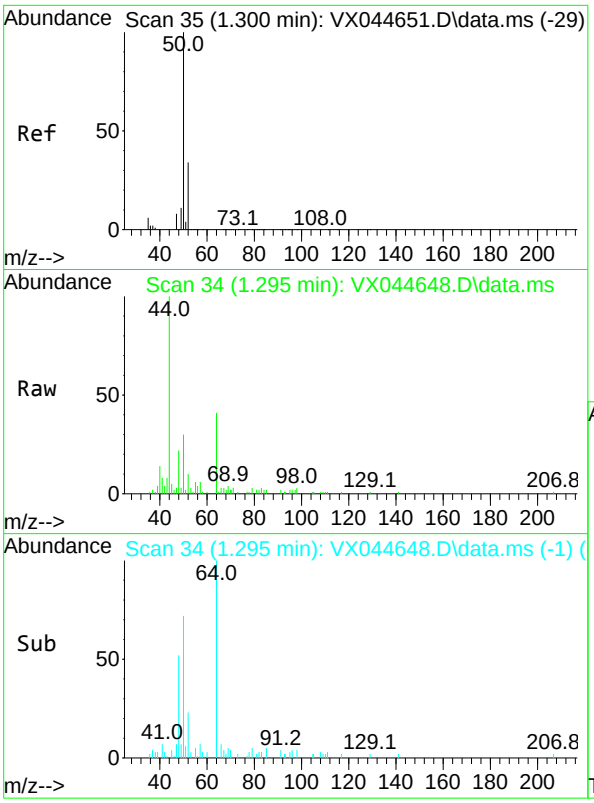



#2
Dichlorodifluoromethane
Concen: 0.886 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 85 Resp: 2555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 16.8 | 50.4 |

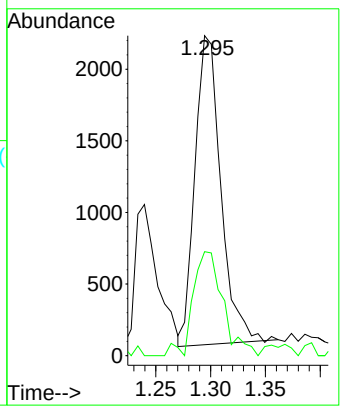





#3
Chloromethane
Concen: 1.135 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 50 Resp: 353

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.5 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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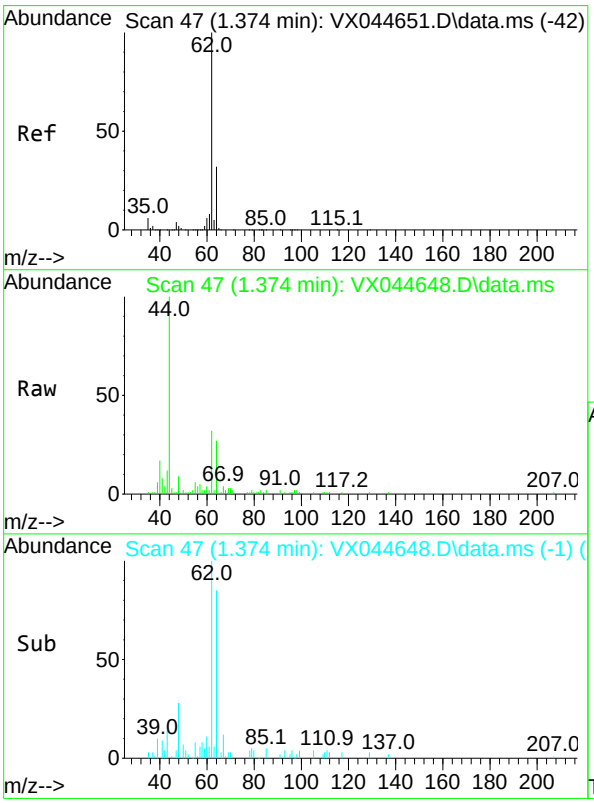
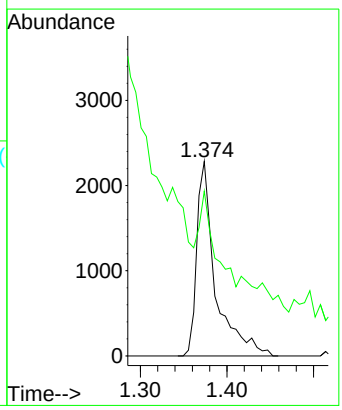
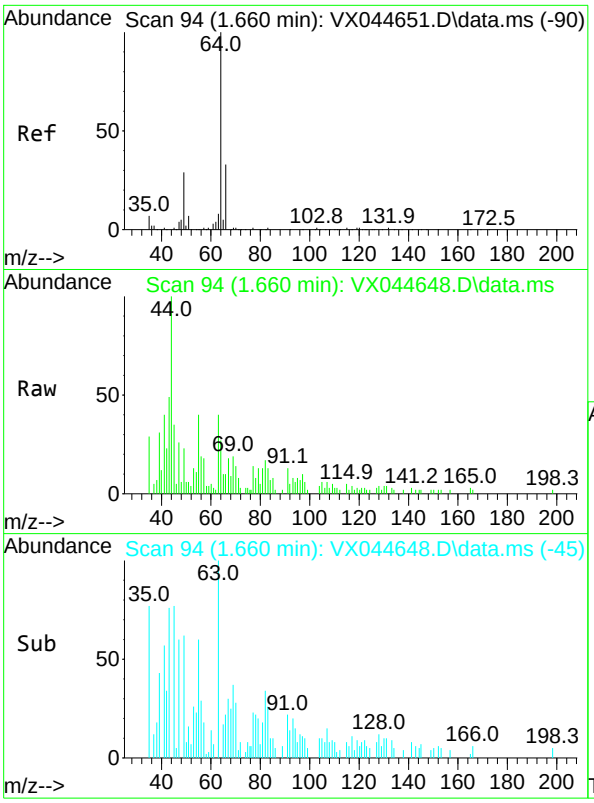



#4
Vinyl Chloride
Concen: 1.115 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 62 Resp: 3434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 53.6 | 26.6 | 39.8# |

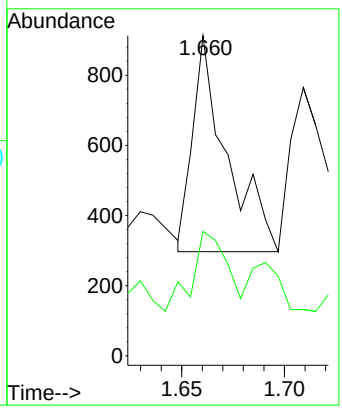





#6
Chloroethane
Concen: 1.253 ug/l
RT: 1.660 min Scan# 9
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 64 Resp: 70

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 23.4 | 26.6 | 39.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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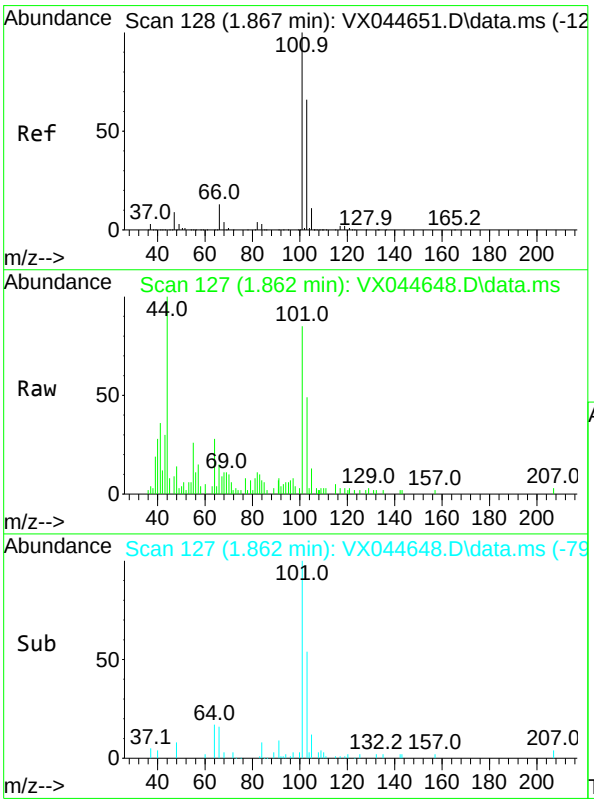
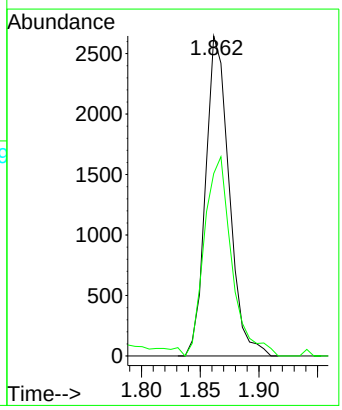
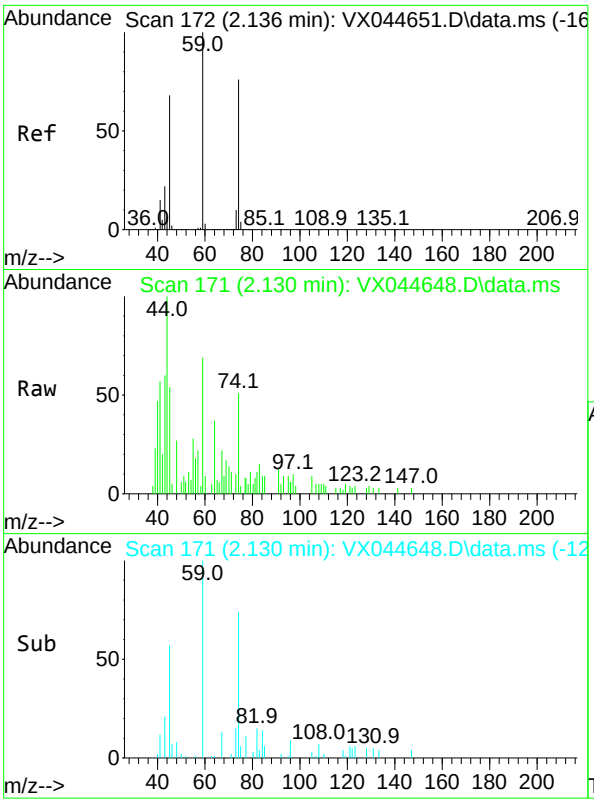



#7
Trichlorofluoromethane
Concen: 1.082 ug/l
RT: 1.862 min Scan# 127
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:101 Resp: 3682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 57.0 | 52.5 | 78.7 |






#8
Diethyl Ether
Concen: 1.229 ug/l
RT: 2.130 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 74 Resp: 168

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 106.7 | 47.1 | 141.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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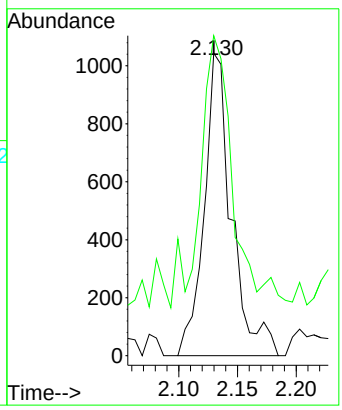
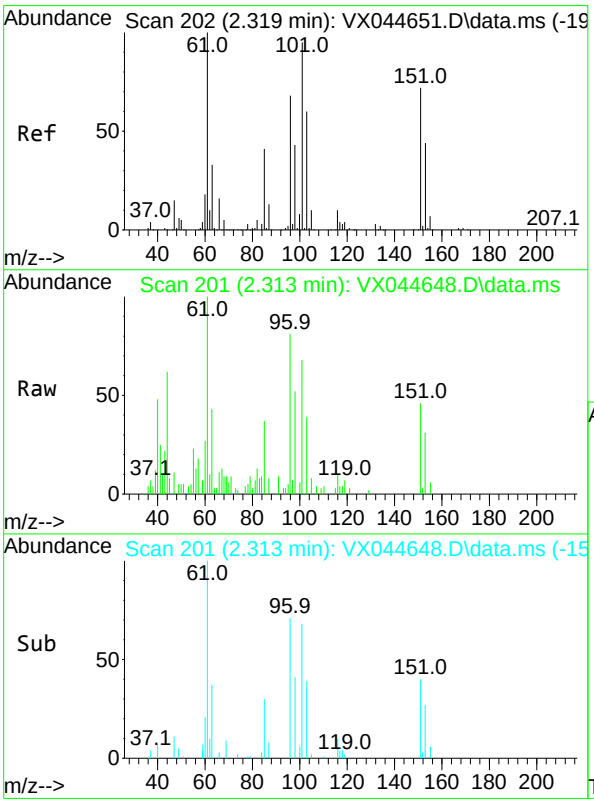
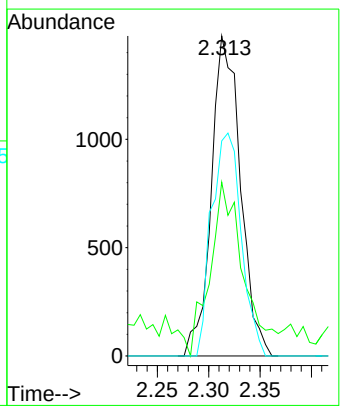


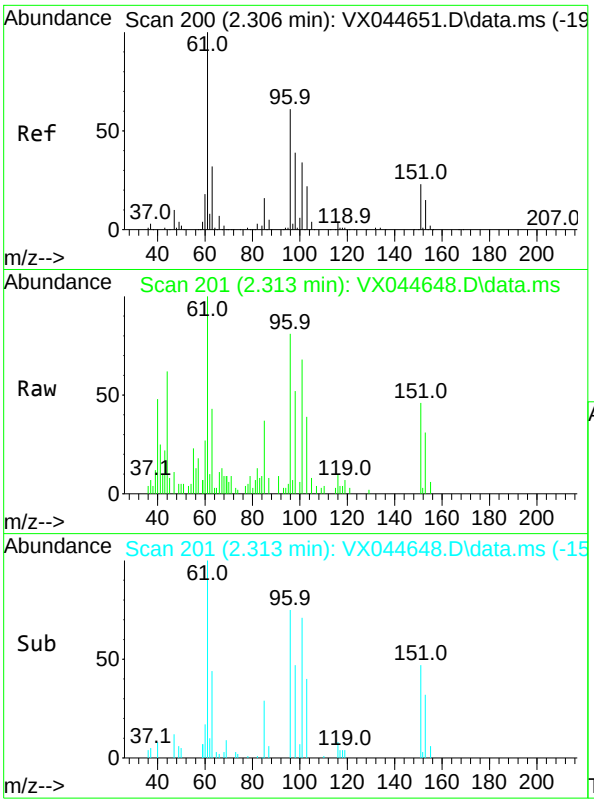




#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.135 ug/l
RT: 2.313 min Scan# 201
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:101 Resp: 2905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 62.7 | 35.3 | 52.9# |
| 151 | 71.2 | 58.2 | 87.4 |

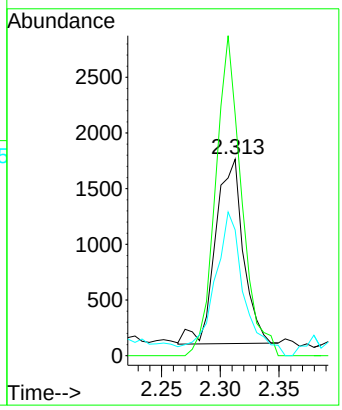





#12
1,1-Dichloroethene
Concen: 1.090 ug/l
RT: 2.313 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 96 Resp: 273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.3 | 131.1 | 196.7 |
| 98 | 63.5 | 51.2 | 76.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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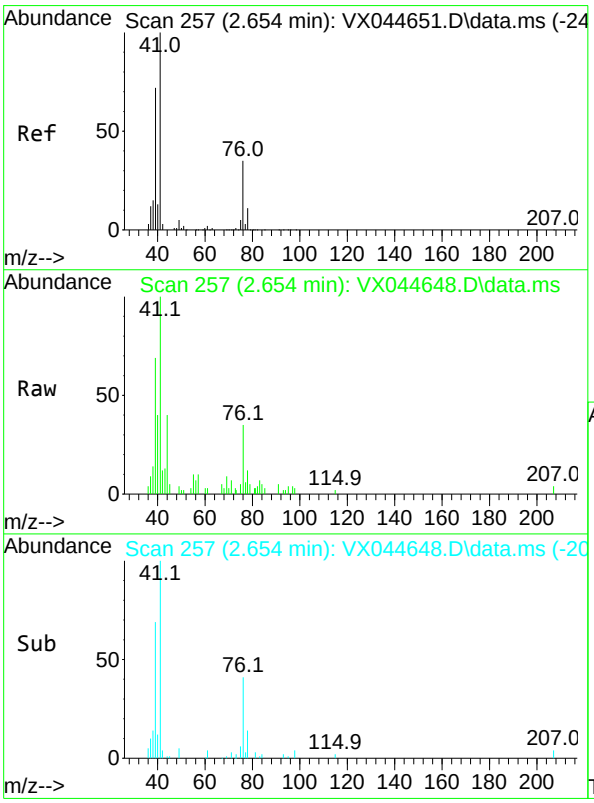
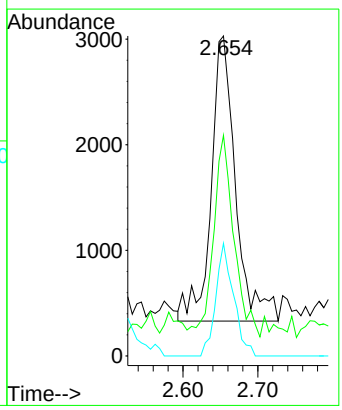
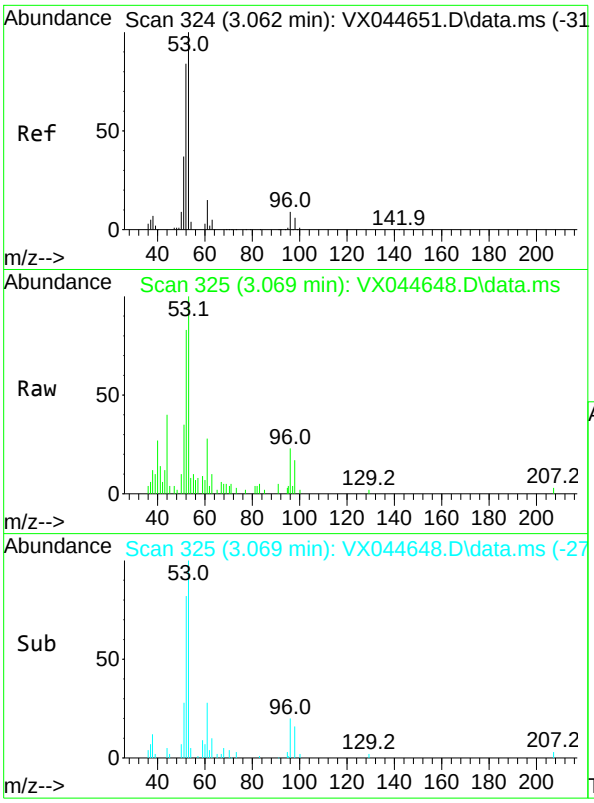



#14
Allyl chloride
Concen: 1.257 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 41 Resp: 6137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.2 | 54.9 | 82.3 |
| 76 | 28.7 | 28.4 | 42.6 |

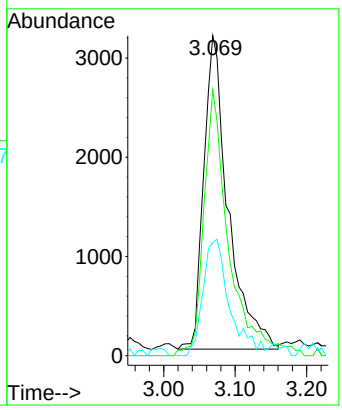





#15
Acrylonitrile
Concen: 5.306 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 53 Resp: 750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 86.7 | 66.0 | 99.0 |
| 51 | 40.4 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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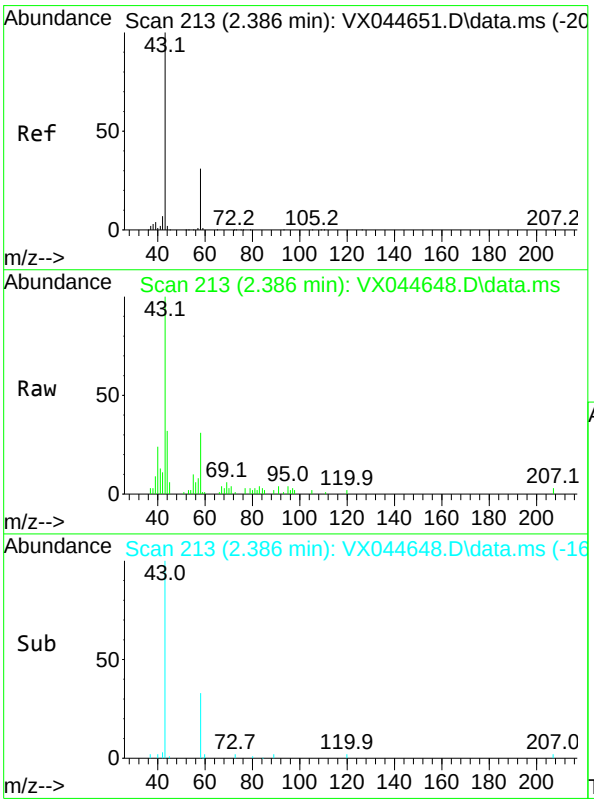
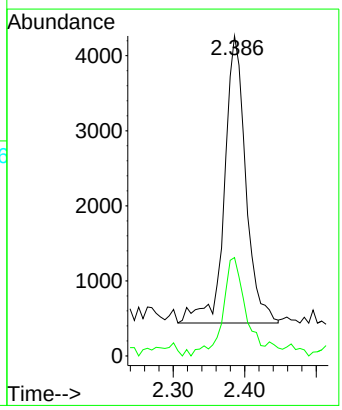
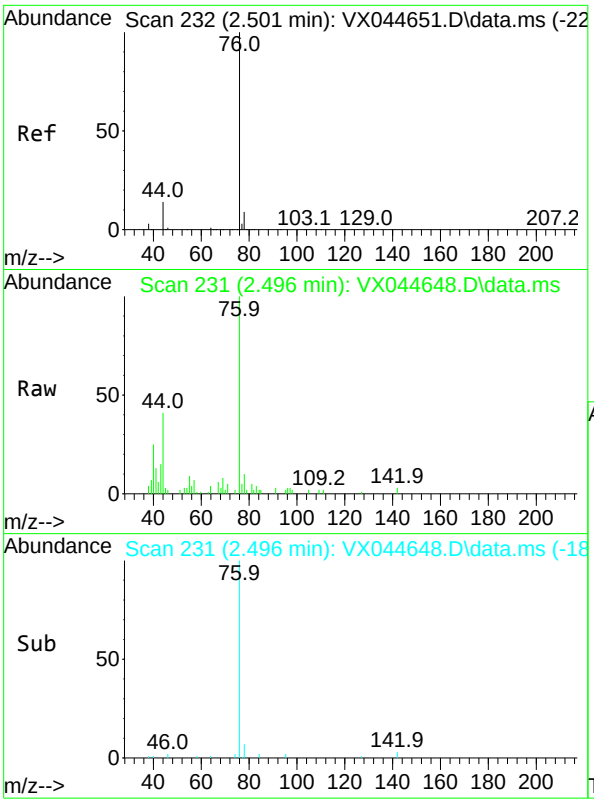



#16
Acetone
Concen: 6.186 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 7914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.5 | 24.6 | 37.0 |






#17
Carbon Disulfide
Concen: 1.058 ug/l
RT: 2.496 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 76 Resp: 724

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.2 | 7.1 | 10.7 |

**Instrument :**
MSVOA_X
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VSTDICC001

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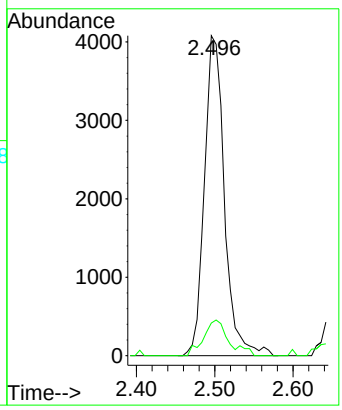
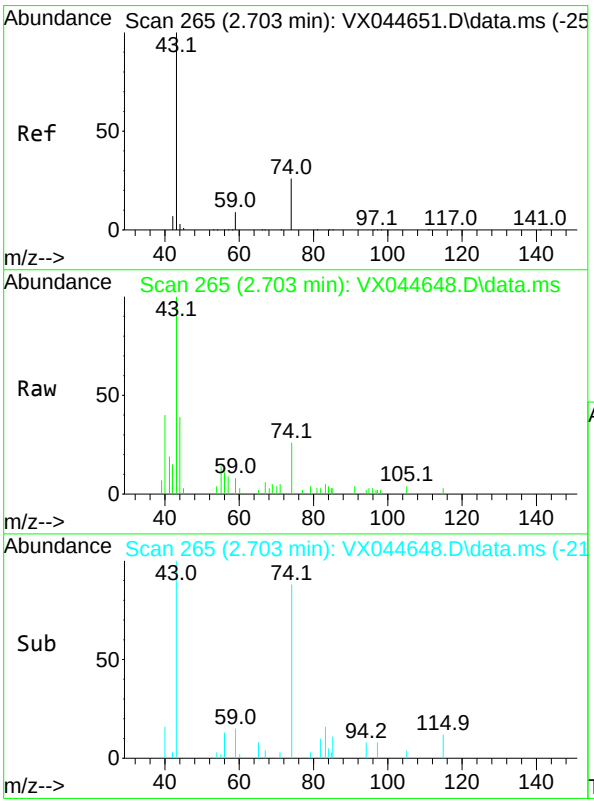
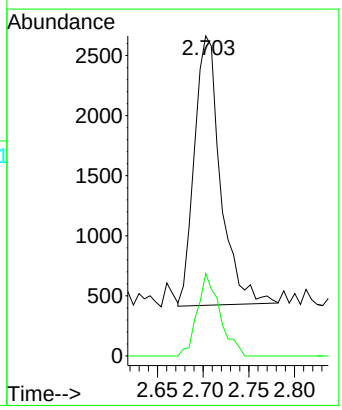


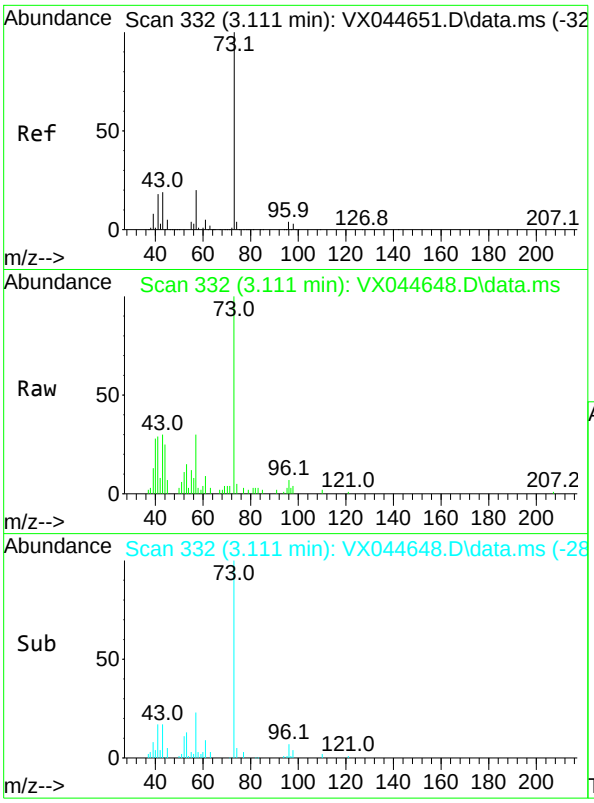




#18
Methyl Acetate
Concen: 1.130 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 4460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.5 | 19.8 | 29.8 |






#19
Methyl tert-butyl Ether
Concen: 1.098 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 73 Resp: 997

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.7 | 17.4 | 26.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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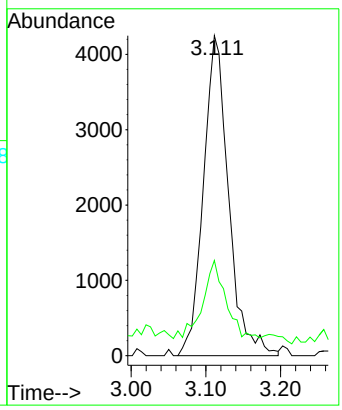
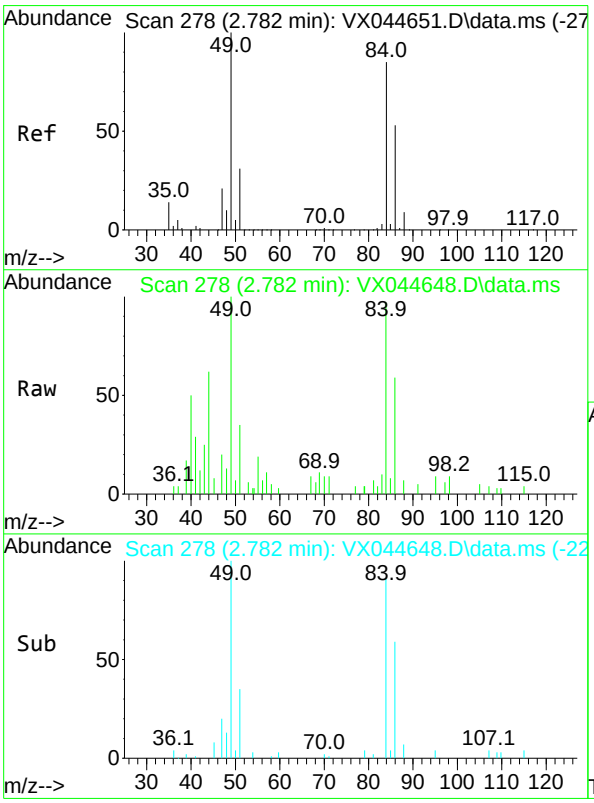
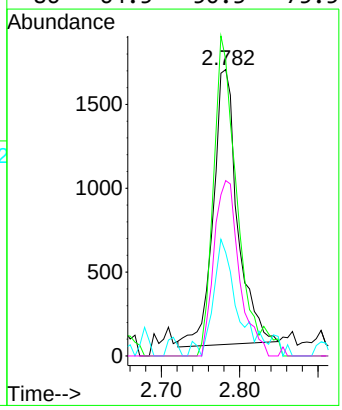


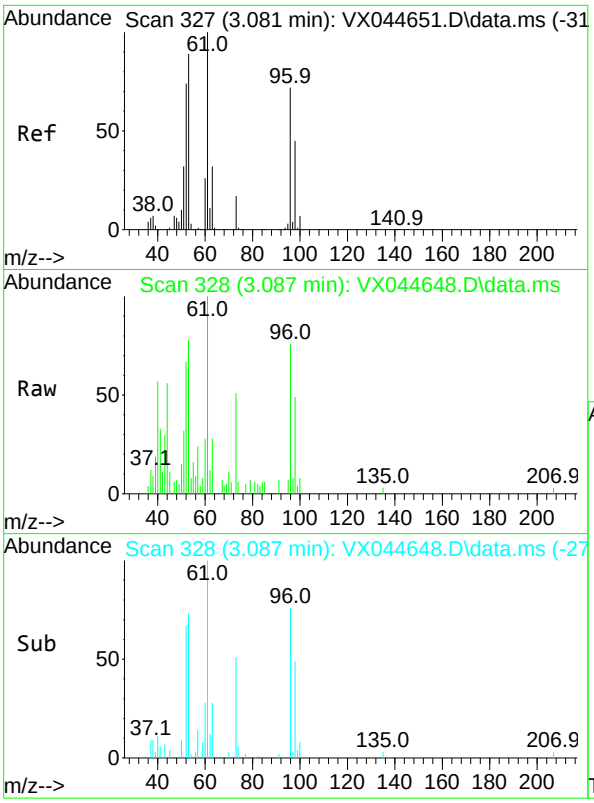




#20
Methylene Chloride
Concen: 1.191 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 84 Resp: 3548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 108.9 | 94.2 | 141.4 |
| 51 | 34.2 | 28.8 | 43.2 |
| 86 | 64.5 | 50.3 | 75.5 |

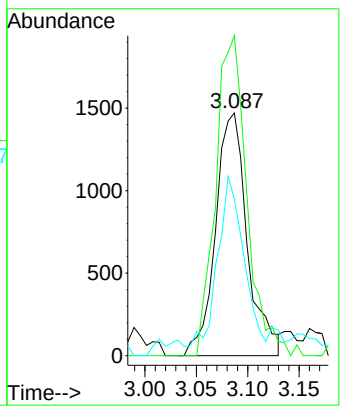





#21
trans-1,2-Dichloroethene
Concen: 1.208 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 96 Resp: 316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.8 | 111.0 | 166.6 |
| 98 | 58.2 | 50.2 | 75.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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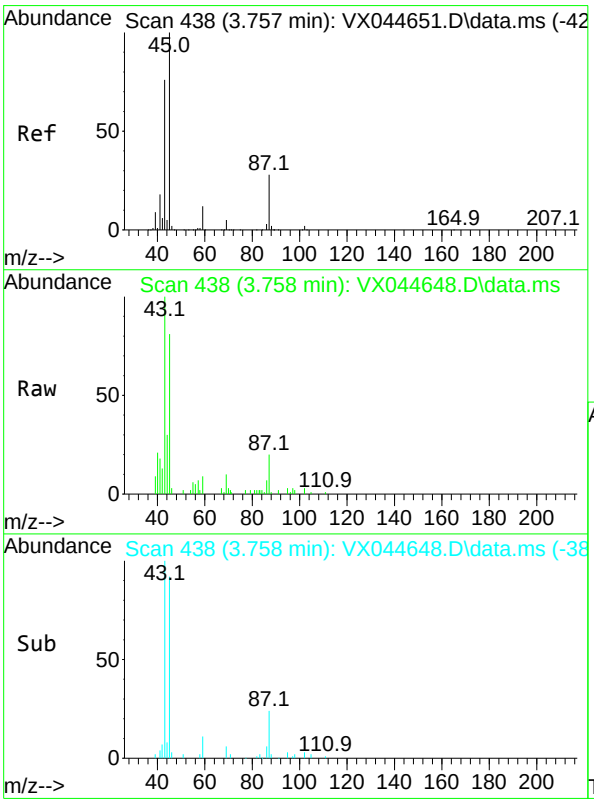
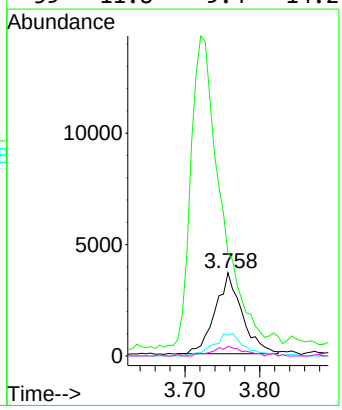
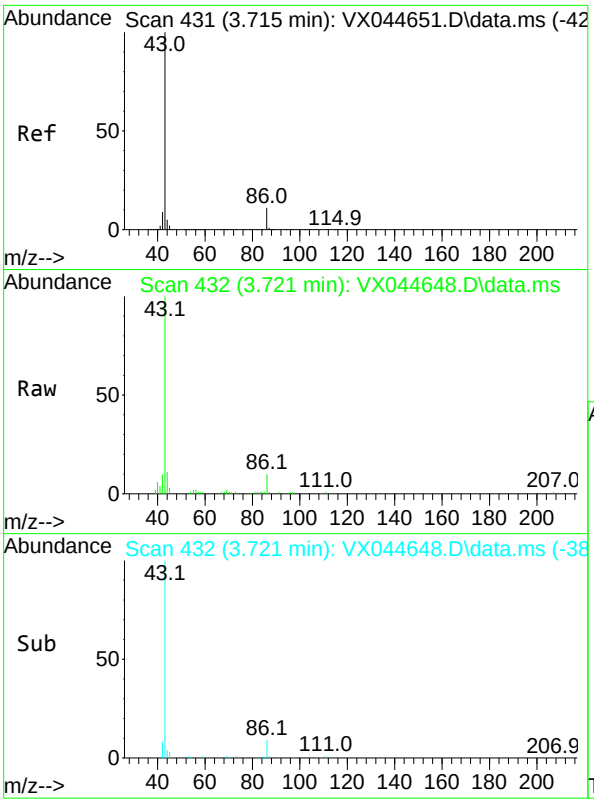



#22
Diisopropyl ether
Concen: 1.065 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 45 Resp: 9038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 106.2 | 61.0 | 91.6# |
| 87 | 25.7 | 22.7 | 34.1 |
| 59 | 11.8 | 9.4 | 14.2 |






#23
Vinyl Acetate
Concen: 5.328 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 3959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.3 | 8.9 | 13.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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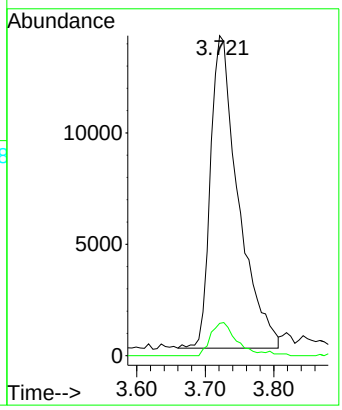
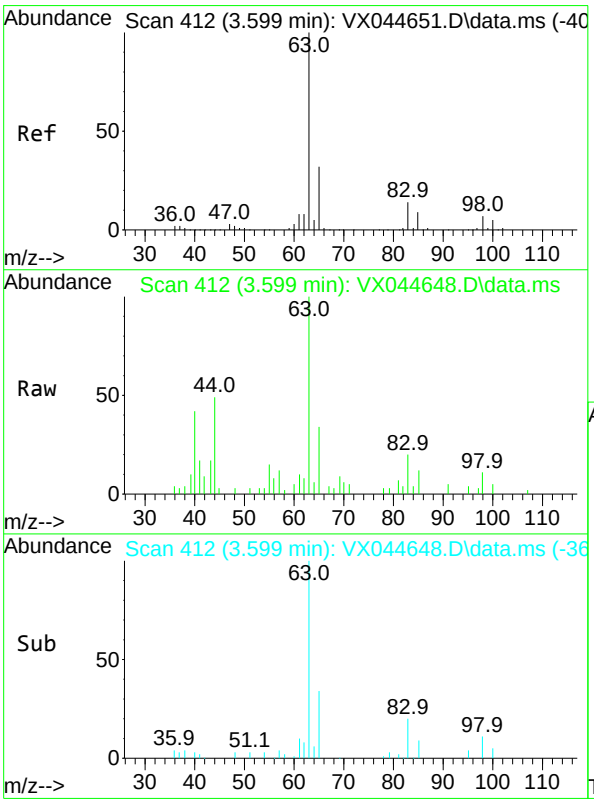
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

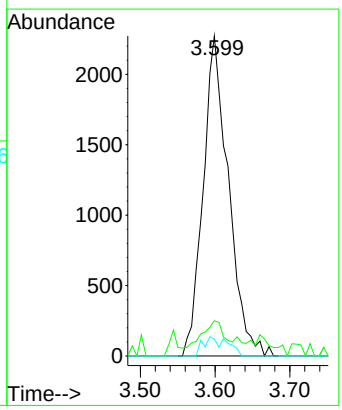


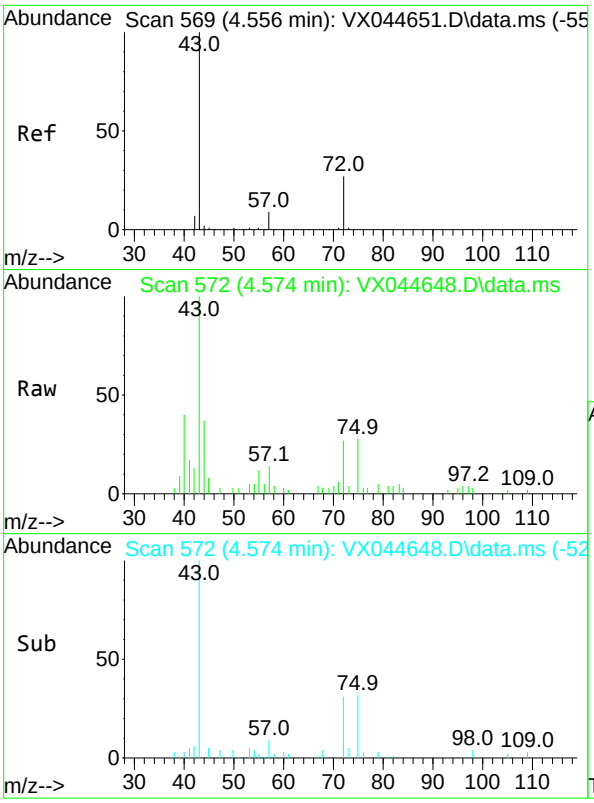




#24
1,1-Dichloroethane
Concen: 1.064 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 63 Resp: 5359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.4 | 3.6 | 10.9 |
| 100 | 5.2 | 2.5 | 7.5 |

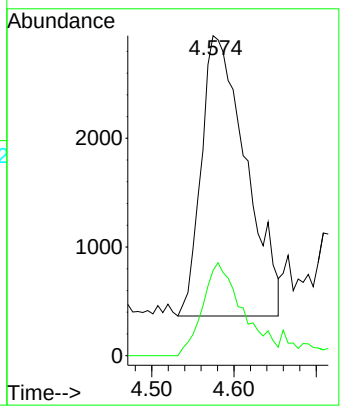





#25
2-Butanone
Concen: 5.085 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 967

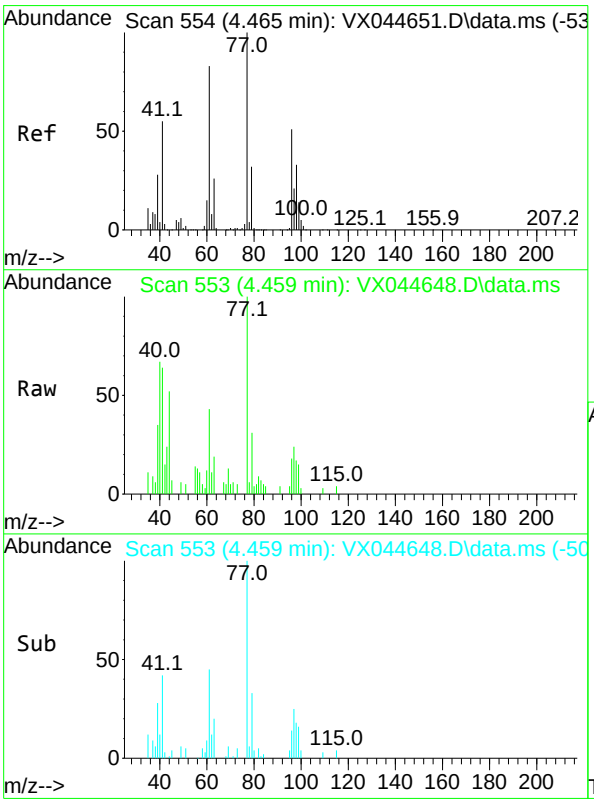
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.4 | 21.7 | 32.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

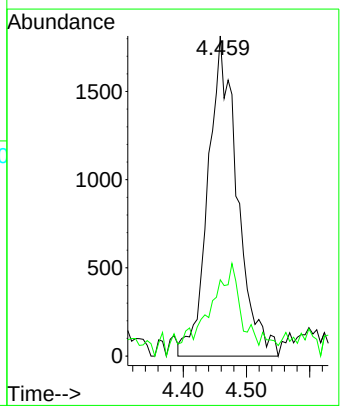
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

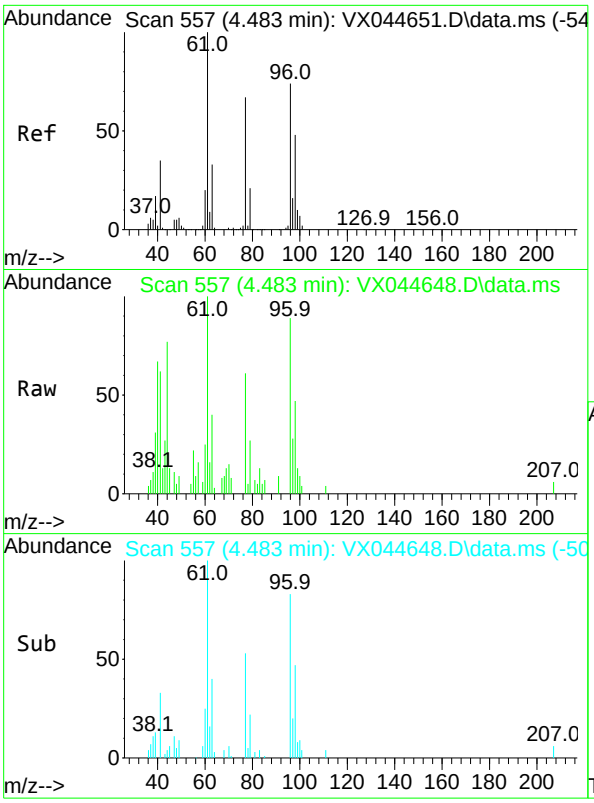



#26
2,2-Dichloropropane
Concen: 1.196 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 77 Resp: 5837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.2 | 10.9 | 32.6 |

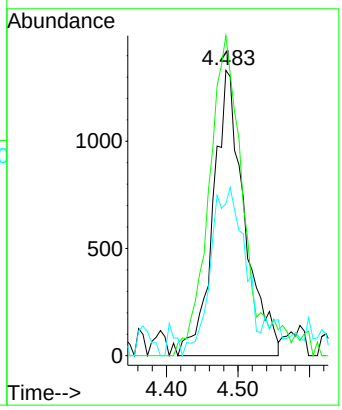





#27
cis-1,2-Dichloroethene
Concen: 1.223 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 96 Resp: 402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.2 | 0.0 | 296.0 |
| 98 | 64.2 | 0.0 | 130.0 |




**Instrument :**
MSVOA_X
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VSTDICC001

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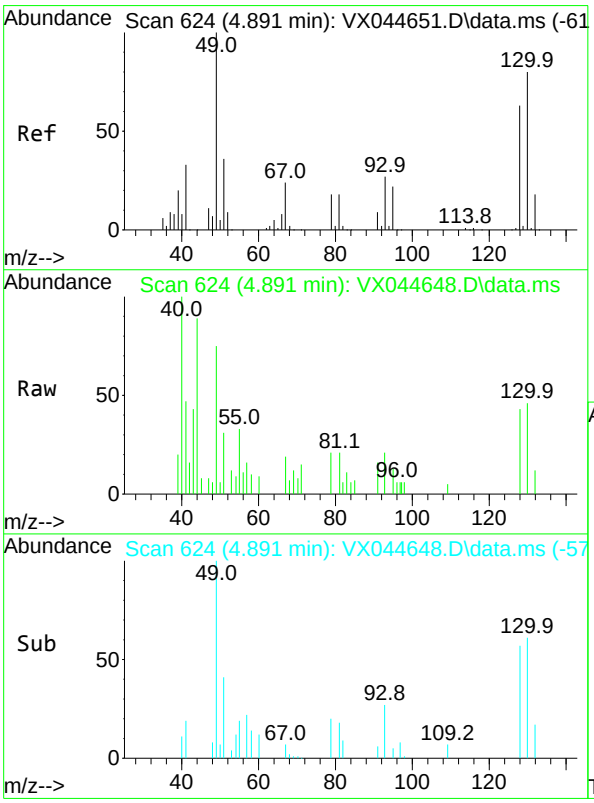
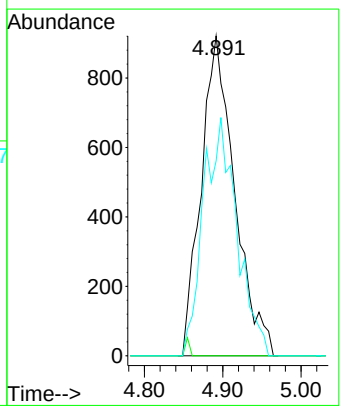
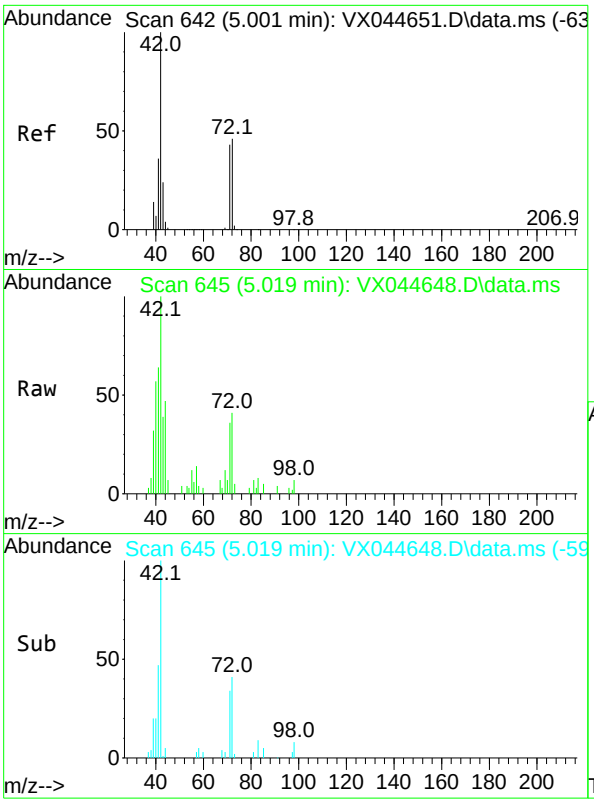



#28
Bromochloromethane
Concen: 1.162 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 49 Resp: 2733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 4.4 |
| 130 | 74.9 | 63.4 | 95.2 |

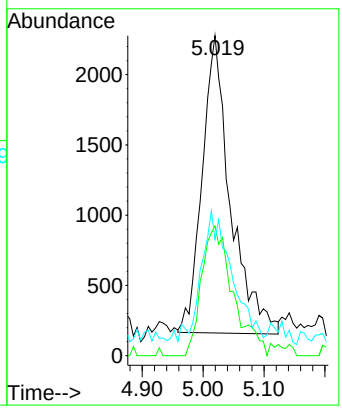





#29
Tetrahydrofuran
Concen: 5.576 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 42 Resp: 684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.2 | 38.2 | 57.4 |
| 71 | 46.5 | 35.3 | 52.9 |




**Instrument :**
MSVOA_X
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VSTDICC001

**Manual Integrations**
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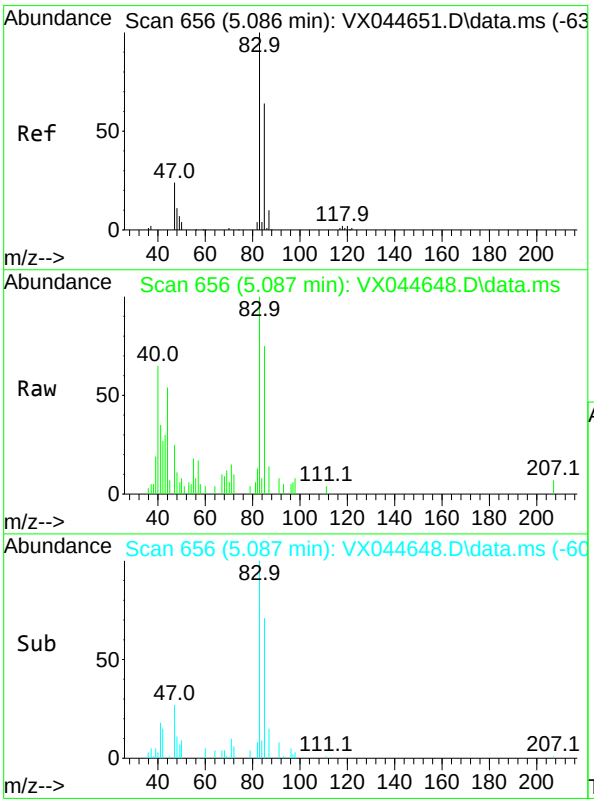
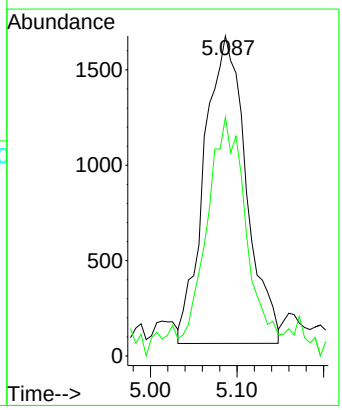
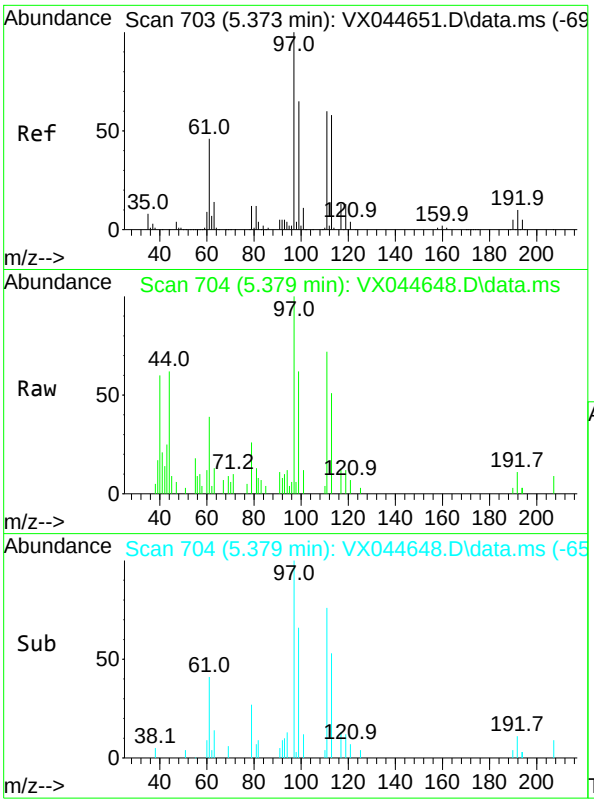



#30
Chloroform
Concen: 1.063 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 83 Resp: 5401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 75.4 | 51.2 | 76.8 |






#32
1,1,1-Trichloroethane
Concen: 1.278 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 97 Resp: 596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 0.0 | 51.6 | 77.4 |
| 61 | 37.6 | 35.6 | 53.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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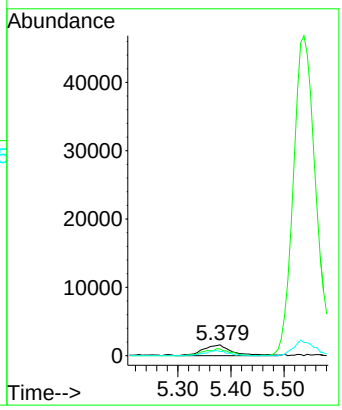
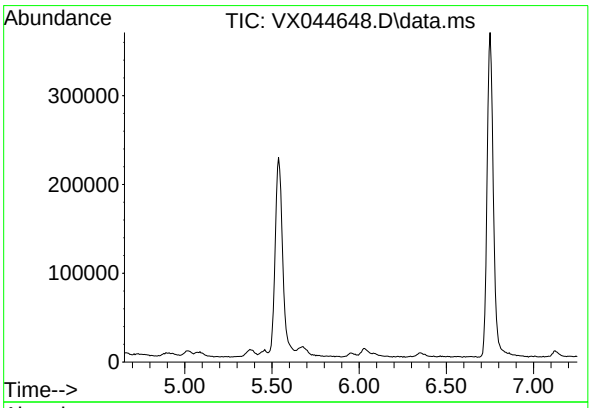


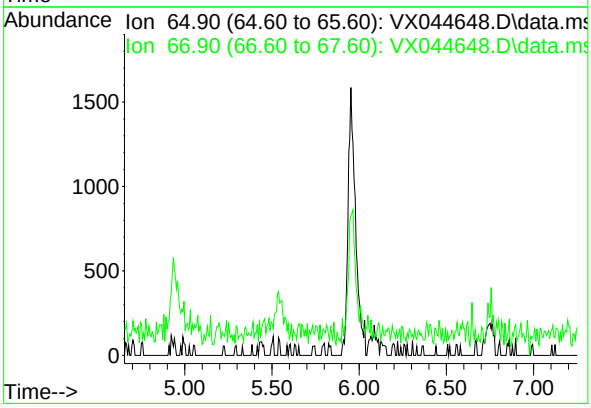



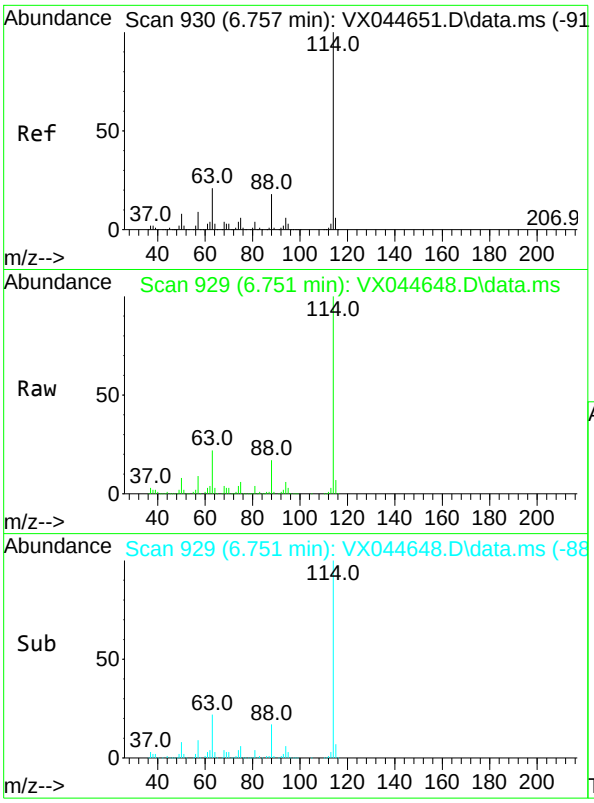

#33
1,2-Dichloroethane-d4
Concen: 0.000 ug/l
Expected RT: 5.95 min

Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 65

| Sig | Exp Ratio |
|---|---|
| 65 | 100 |
| 67 | 51.7 |






#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 9
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:114 Resp: 38945

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.8 | 0.0 | 43.0 |
| 88 | 17.4 | 0.0 | 35.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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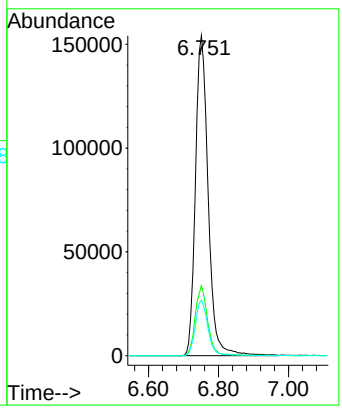
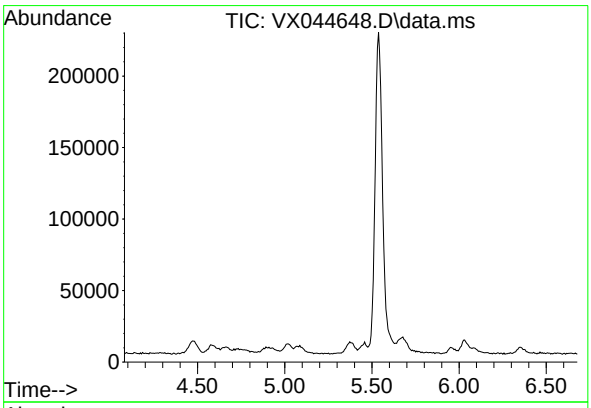


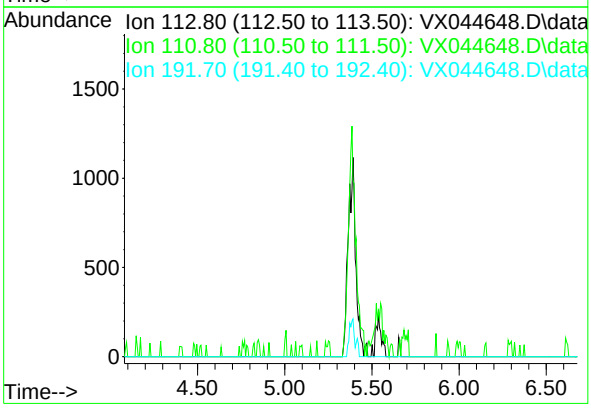



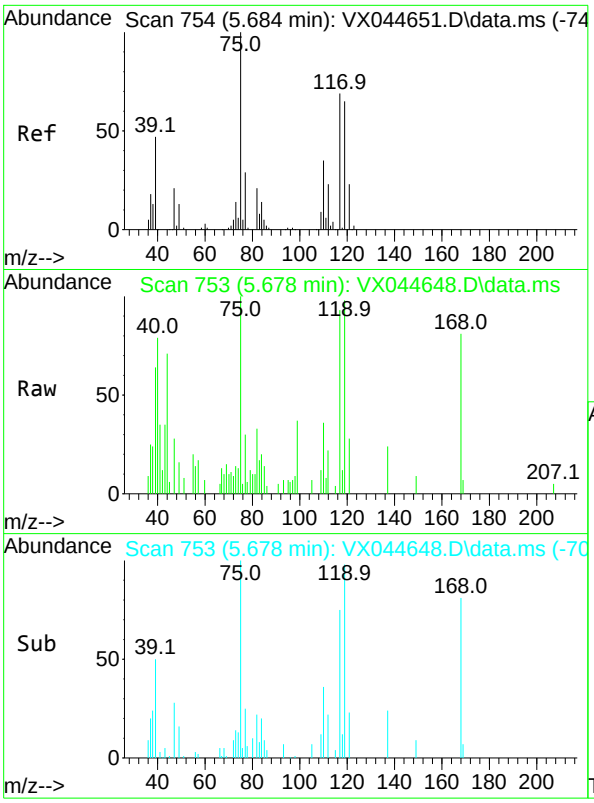

#35
Dibromofluoromethane
Concen: 0.000 ug/l
Expected RT: 5.38 min

Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 113

| Sig | Exp Ratio |
|---|---|
| 113 | 100 |
| 111 | 102.0 |
| 192 | 18.0 |






#36
1,1-Dichloropropene
Concen: 1.232 ug/l
RT: 5.678 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 75 Resp: 424

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.5 | 17.9 | 53.8 |
| 77 | 22.1 | 24.5 | 36.7# |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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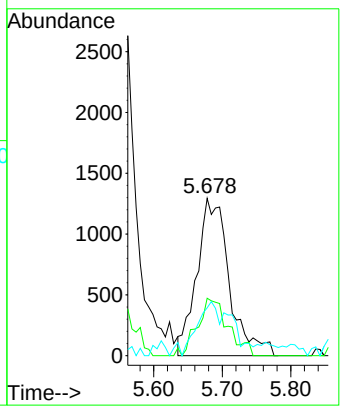
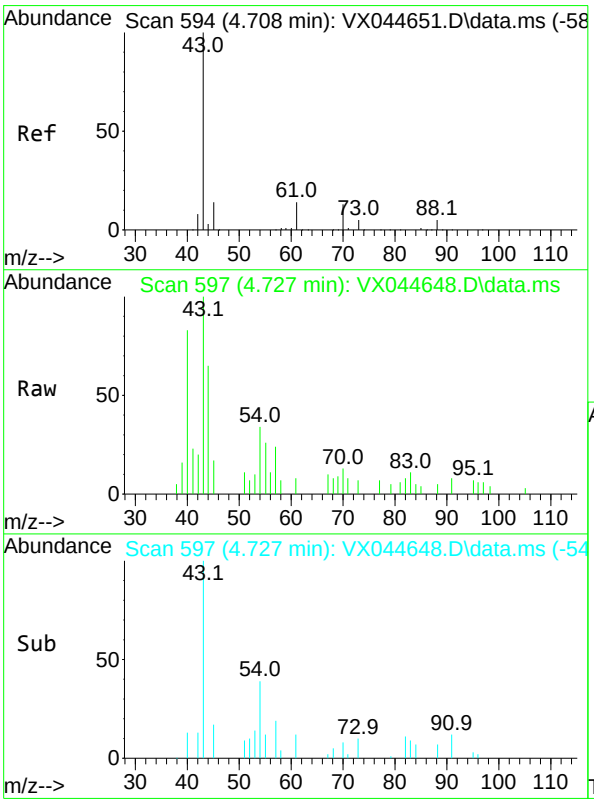
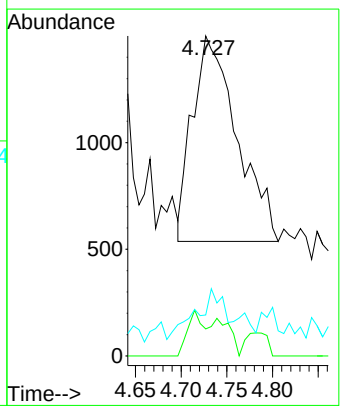


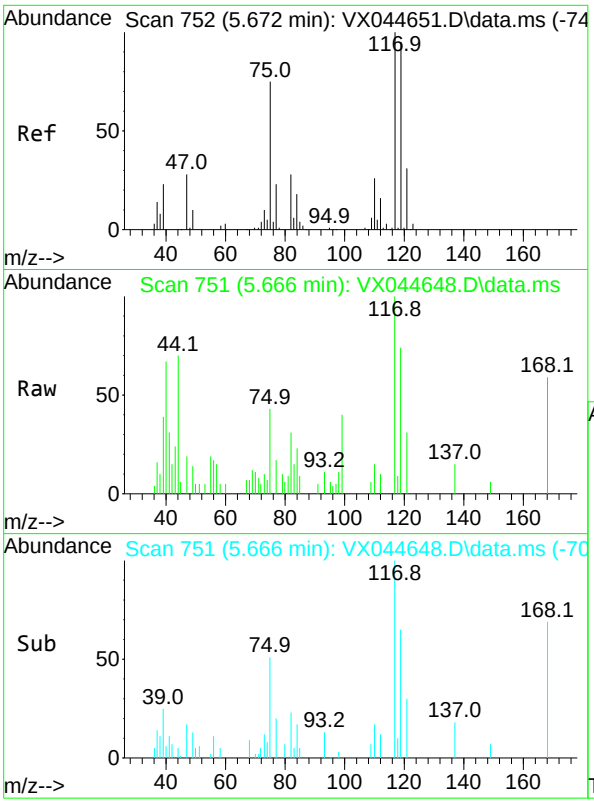




#37
Ethyl Acetate
Concen: 0.891 ug/l
RT: 4.727 min Scan# 597
Delta R.T. 0.019 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 3269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 7.9 | 10.9 | 16.3# |
| 70 | 16.0 | 10.1 | 15.1# |






#38
Carbon Tetrachloride
Concen: 1.177 ug/l
RT: 5.666 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:117 Resp: 455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 76.4 | 76.0 | 114.0 |
| 121 | 32.5 | 24.6 | 36.8 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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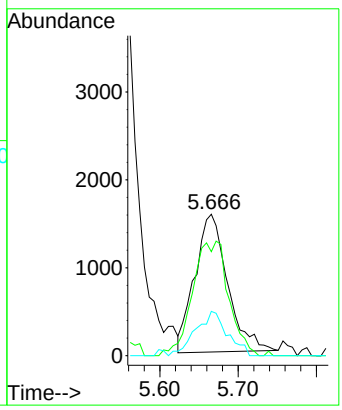
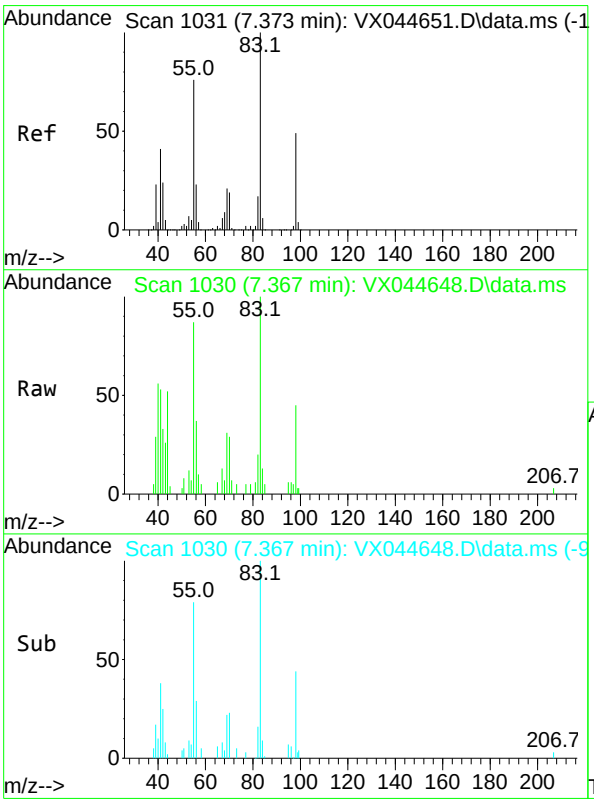
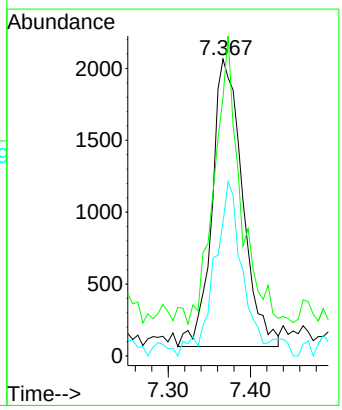


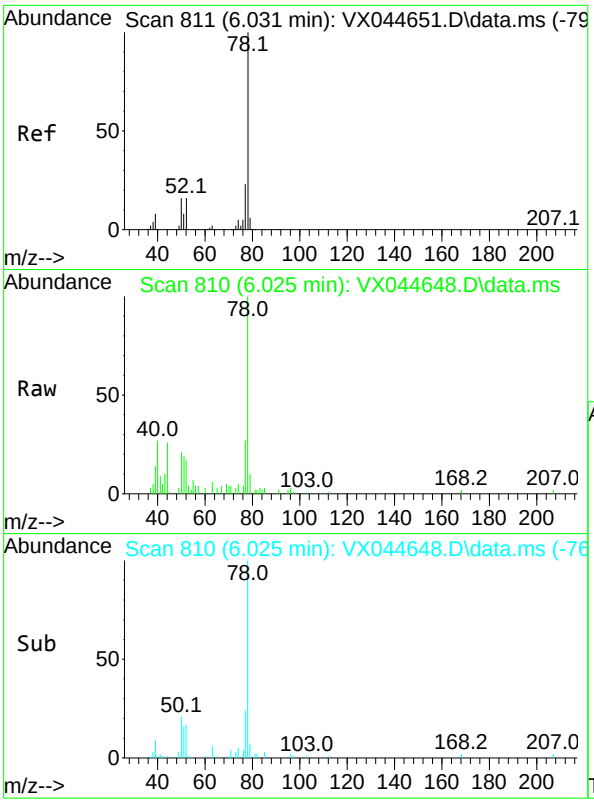




#39
Methylcyclohexane
Concen: 1.128 ug/l
RT: 7.367 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 83 Resp: 5156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.8 | 60.5 | 90.7 |
| 98 | 46.4 | 39.0 | 58.4 |

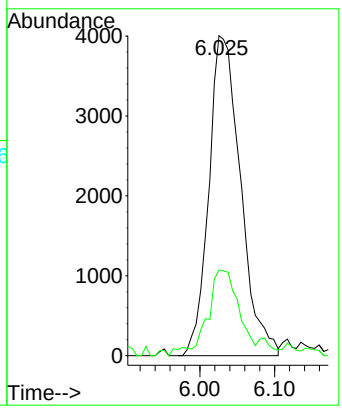





#40
Benzene
Concen: 1.107 ug/l
RT: 6.025 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 78 Resp: 1181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.1 | 18.7 | 28.1 |

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MSVOA_X
**ClientSampleId :**
VSTDICC001

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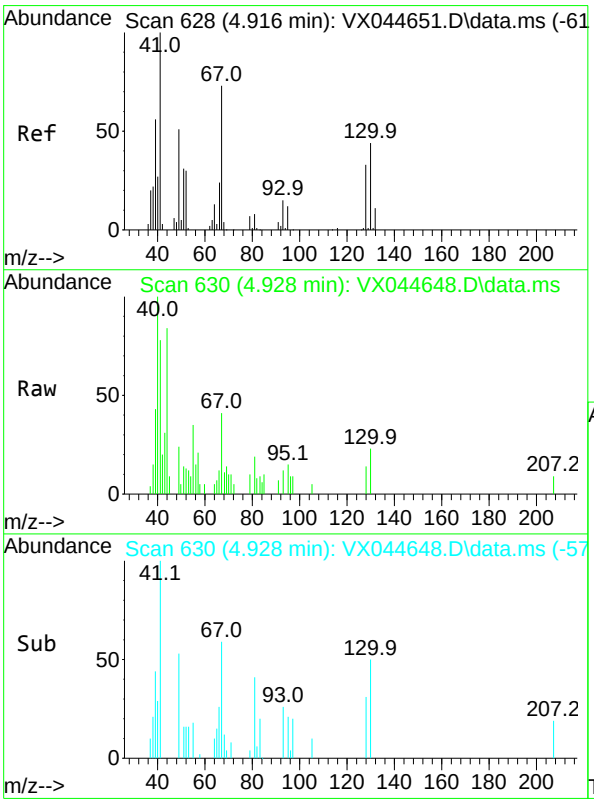
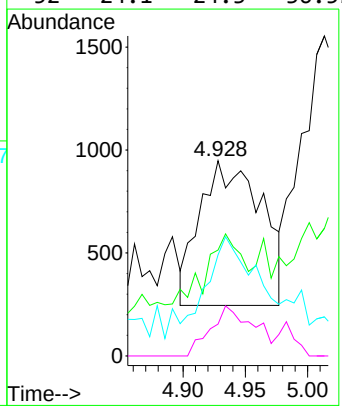
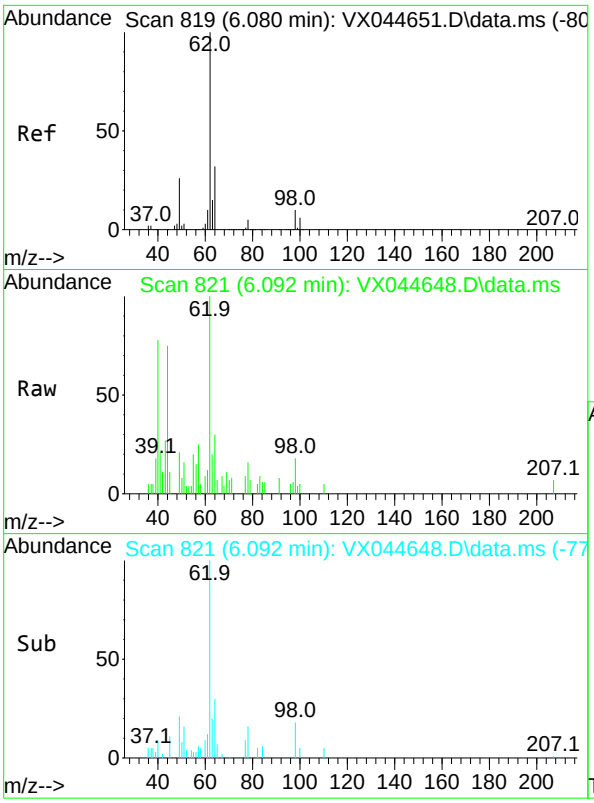



#41
Methacrylonitrile
Concen: 1.146 ug/l m
RT: 4.928 min Scan# 630
Delta R.T. 0.012 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 41 Resp: 2415

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 28.4 | 44.4 | 66.6# |
| 67 | 60.1 | 60.6 | 90.8# |
| 52 | 24.1 | 24.3 | 36.5# |

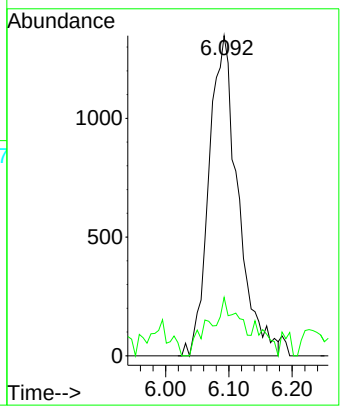





#42
1,2-Dichloroethane
Concen: 1.104 ug/l
RT: 6.092 min Scan# 8
Delta R.T. 0.012 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 62 Resp: 429

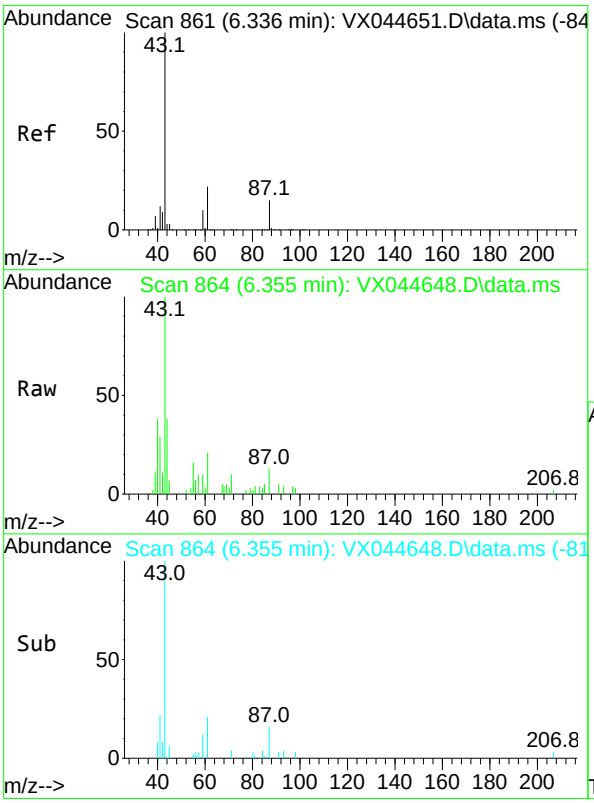
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 13.1 | 0.0 | 19.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

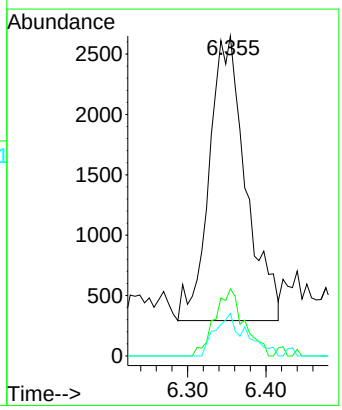
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

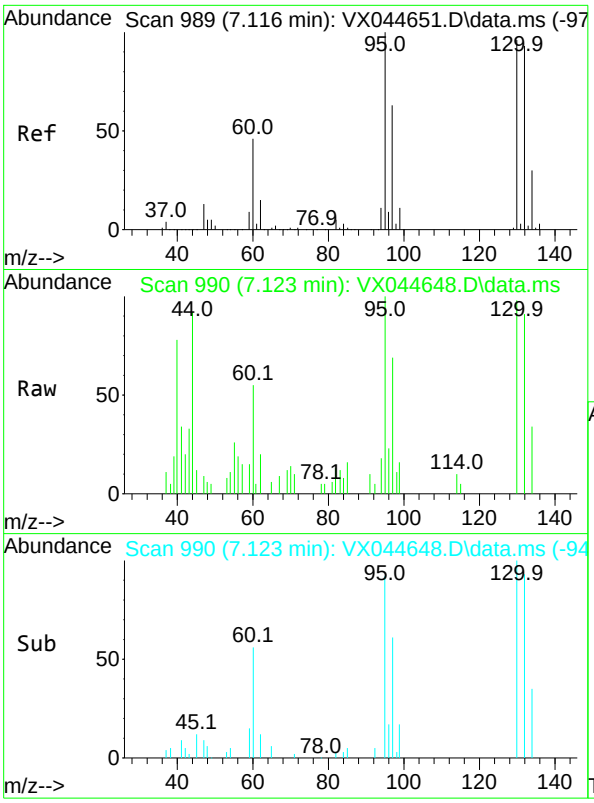



#43
Isopropyl Acetate
Concen: 1.132 ug/l
RT: 6.355 min Scan# 864
Delta R.T. 0.018 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 7640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.9 | 16.6 | 24.8 |
| 87 | 12.6 | 11.0 | 16.6 |






#44
Trichloroethene
Concen: 1.026 ug/l
RT: 7.123 min Scan# 9
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:130 Resp: 263

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.2 | 0.0 | 208.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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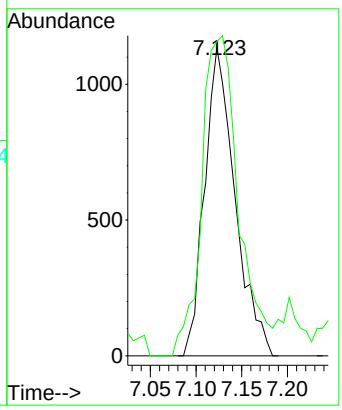
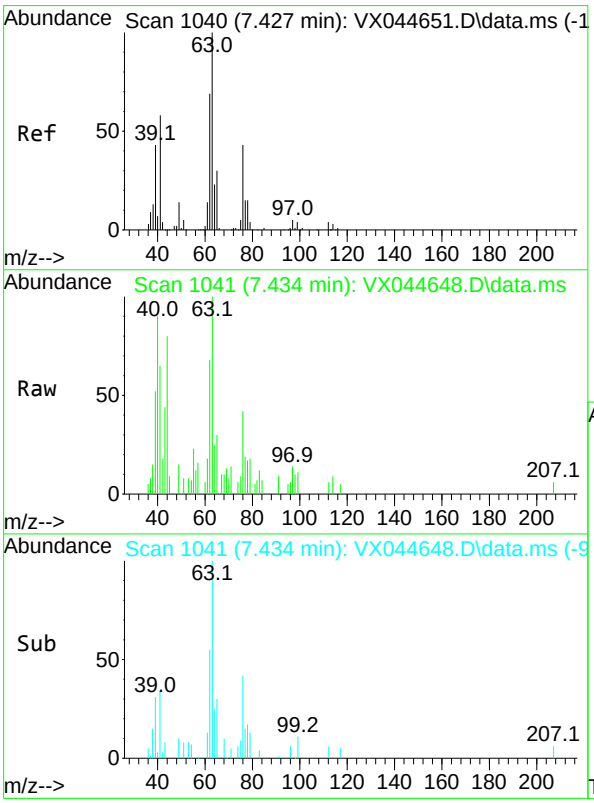
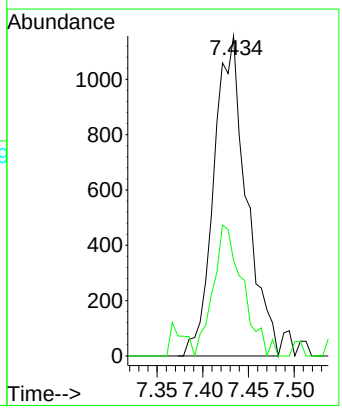


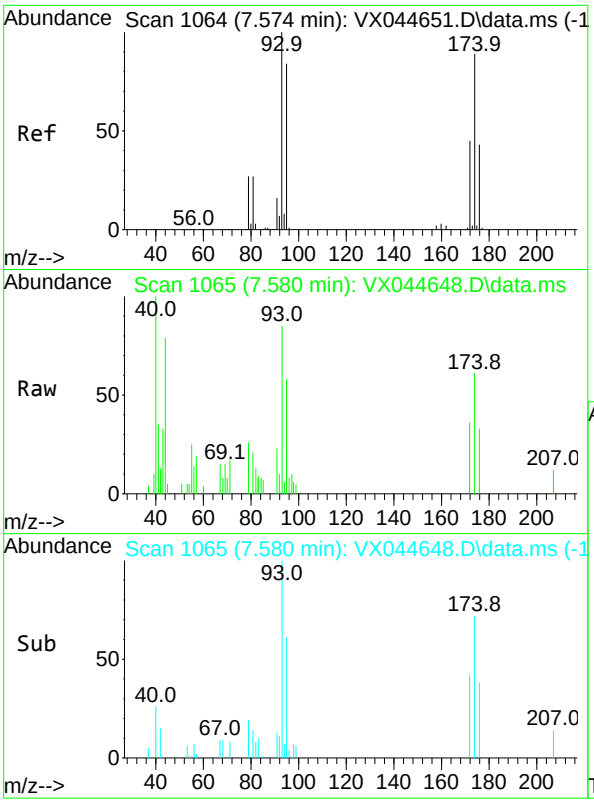




#45
1,2-Dichloropropane
Concen: 1.064 ug/l
RT: 7.434 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 63 Resp: 2857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.8 | 24.2 | 36.2 |

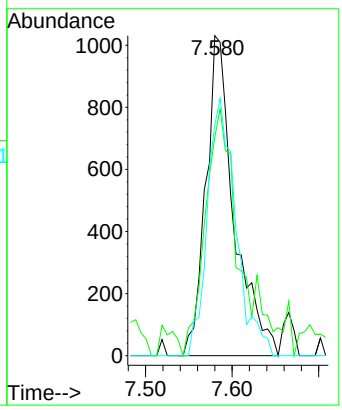





#46
Dibromomethane
Concen: 1.143 ug/l
RT: 7.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 93 Resp: 233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.0 | 66.4 | 99.6 |
| 174 | 81.3 | 72.0 | 108.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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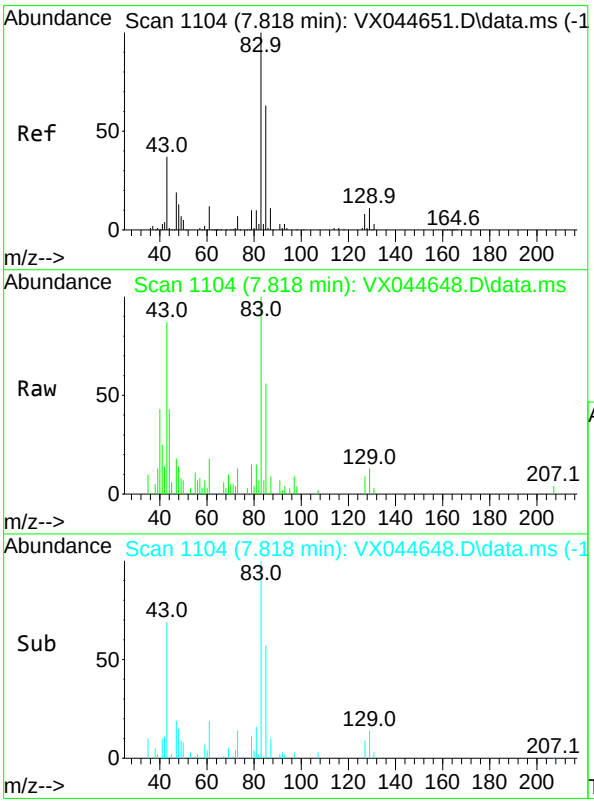
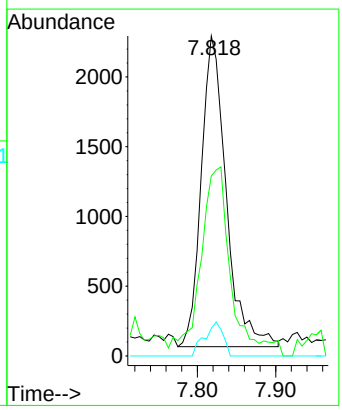
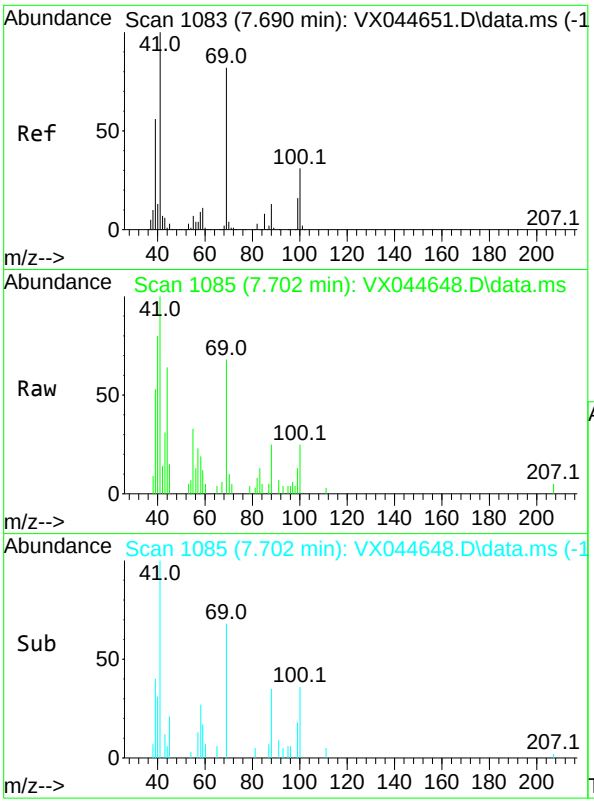



#47
Bromodichloromethane
Concen: 1.177 ug/l
RT: 7.818 min Scan# 1104
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 83 Resp: 4937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 53.1 | 50.1 | 75.1 |
| 127 | 8.8 | 6.5 | 9.7 |






#48
Methyl methacrylate
Concen: 0.967 ug/l
RT: 7.702 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 41 Resp: 302

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.2 | 66.8 | 100.2 |
| 39 | 51.7 | 47.4 | 71.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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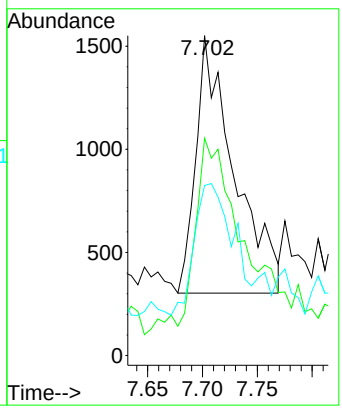
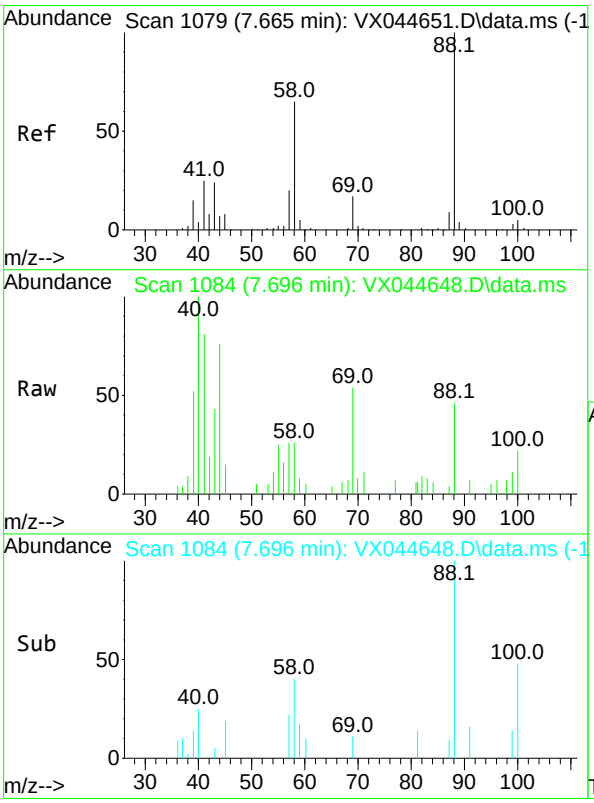
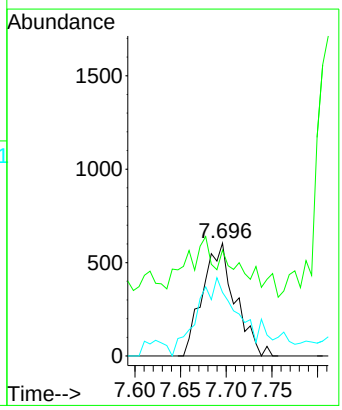


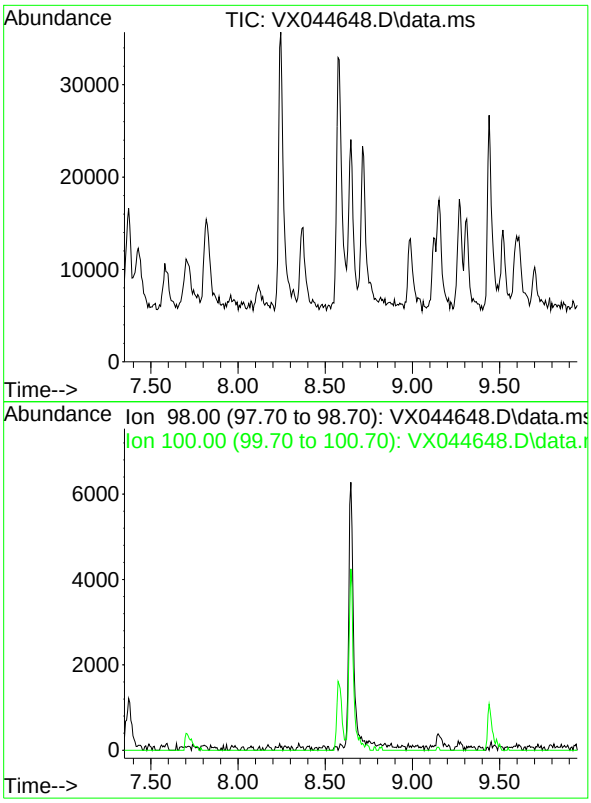




#49
1,4-Dioxane
Concen: 22.727 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.031 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 88 Resp: 1485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.9 | 27.0 | 40.4 |
| 58 | 85.0 | 55.8 | 83.8# |






#50
Toluene-d8
Concen: 0.000 ug/l
Expected RT: 8.65 min

Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 98

| Sig | Exp Ratio |
|---|---|
| 98 | 100 |
| 100 | 66.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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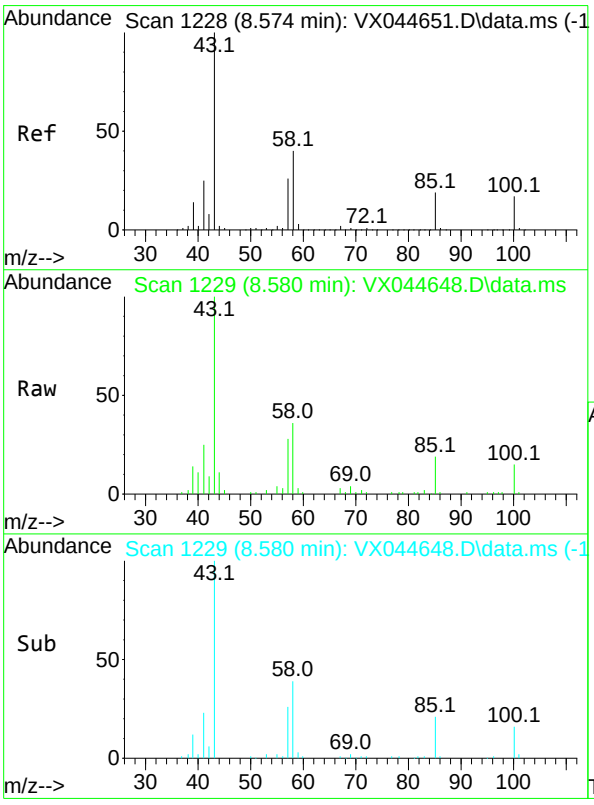
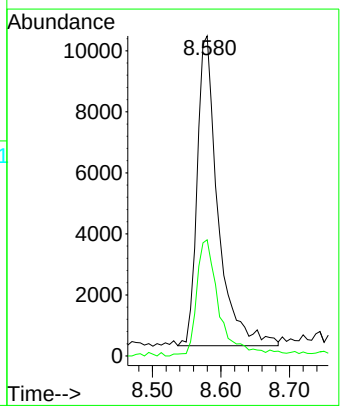
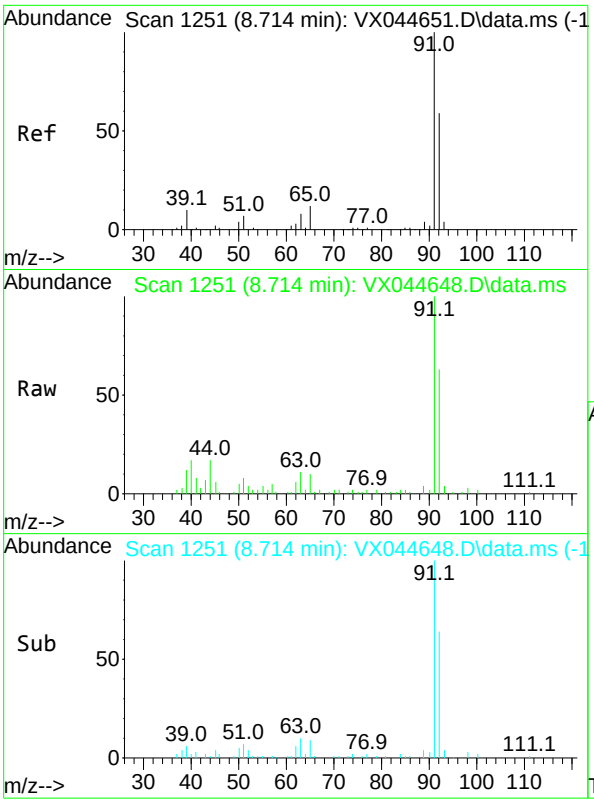



#51
4-Methyl-2-Pentanone
Concen: 5.736 ug/l
RT: 8.580 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 21388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.0 | 31.9 | 47.9 |

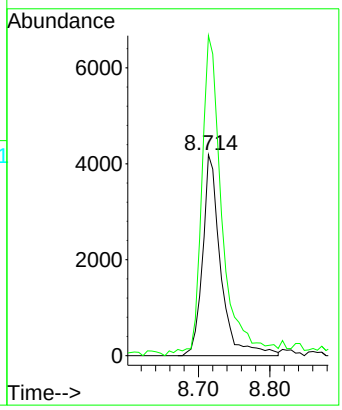





#52
Toluene
Concen: 1.122 ug/l
RT: 8.714 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 92 Resp: 733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 178.6 | 135.7 | 203.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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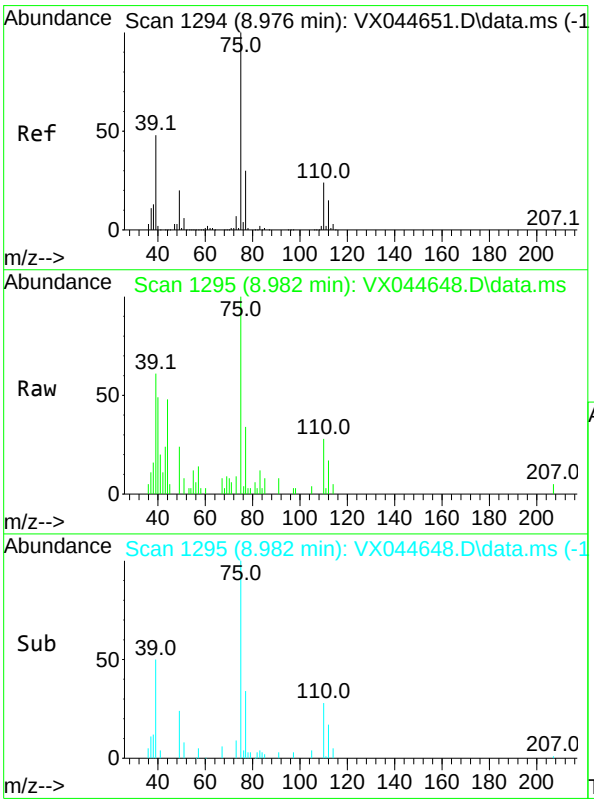
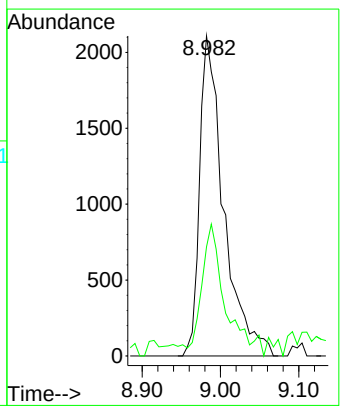
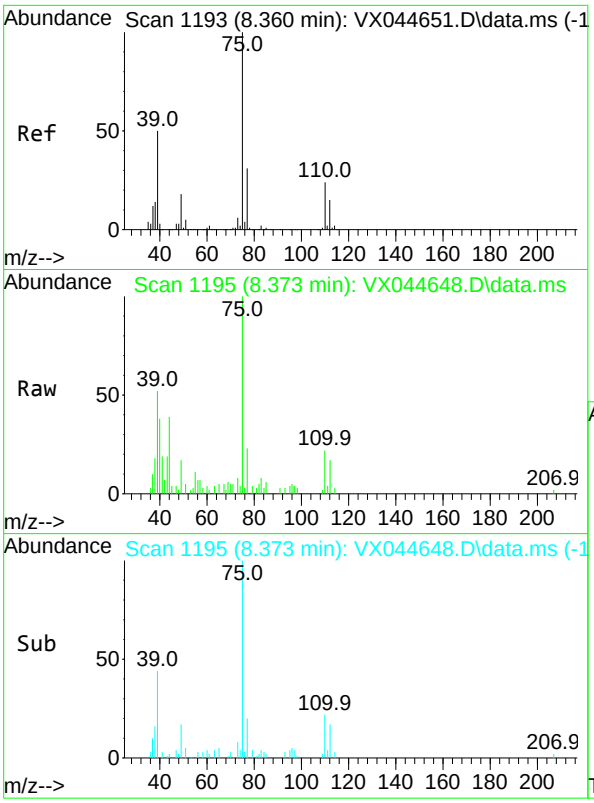



#53
t-1,3-Dichloropropene
Concen: 1.038 ug/l
RT: 8.982 min Scan# 1295
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 75 Resp: 4499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 24.4 | 36.6 |

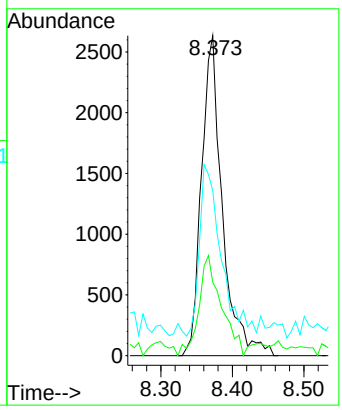





#54
cis-1,3-Dichloropropene
Concen: 1.134 ug/l
RT: 8.373 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 75 Resp: 532

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 23.0 | 25.1 | 37.7# |
| 39 | 42.1 | 40.3 | 60.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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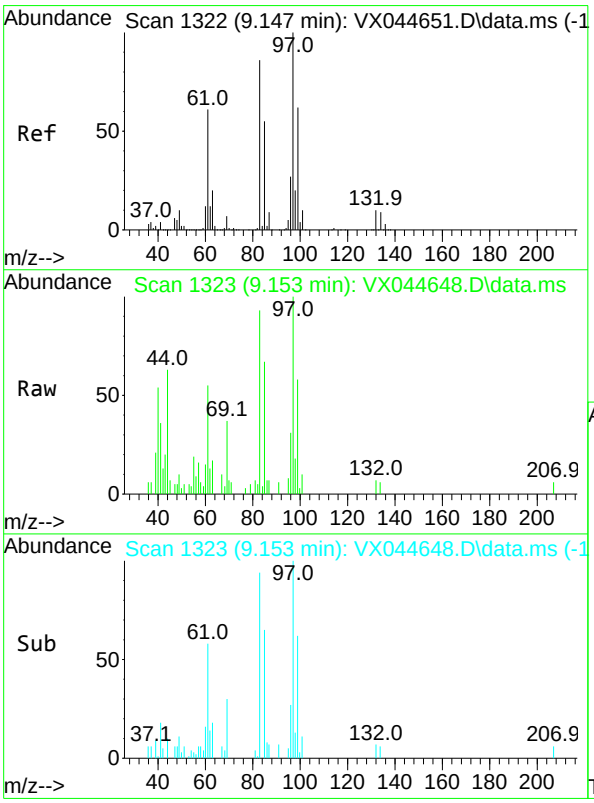
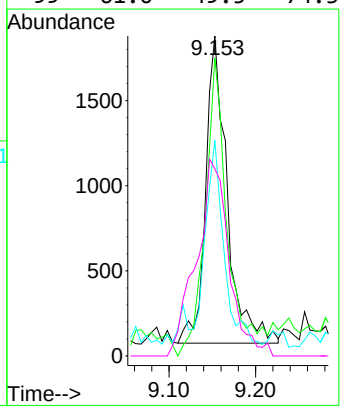
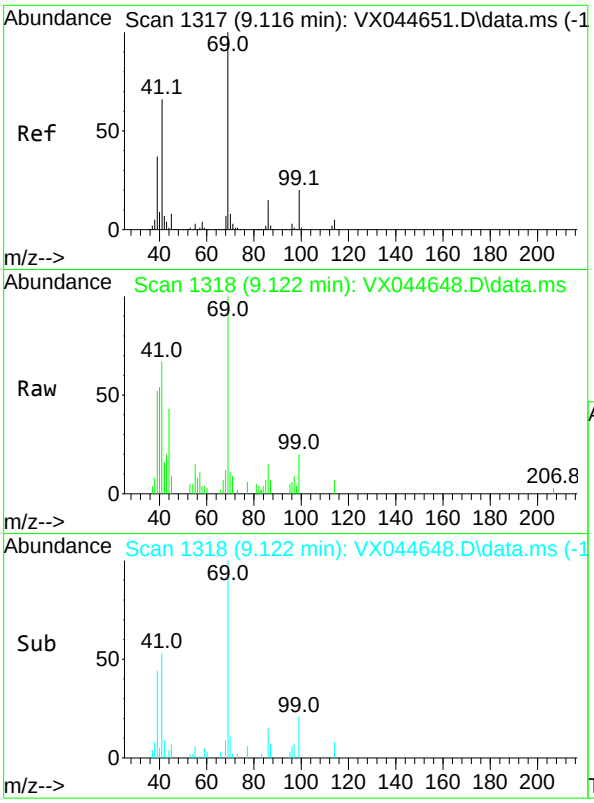



#55
1,1,2-Trichloroethane
Concen: 1.182 ug/l
RT: 9.153 min Scan# 1323
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 97 Resp: 3124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 97.1 | 68.8 | 103.2 |
| 85 | 63.4 | 43.7 | 65.5 |
| 99 | 61.0 | 49.5 | 74.3 |

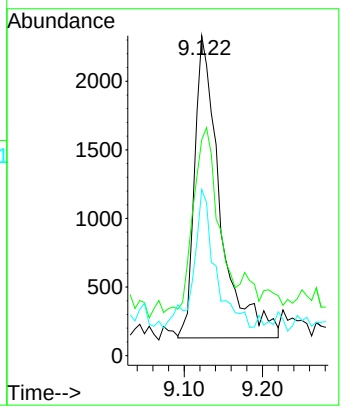





#56
Ethyl methacrylate
Concen: 1.099 ug/l
RT: 9.122 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 69 Resp: 499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 56.4 | 53.2 | 79.8 |
| 39 | 41.7 | 30.2 | 45.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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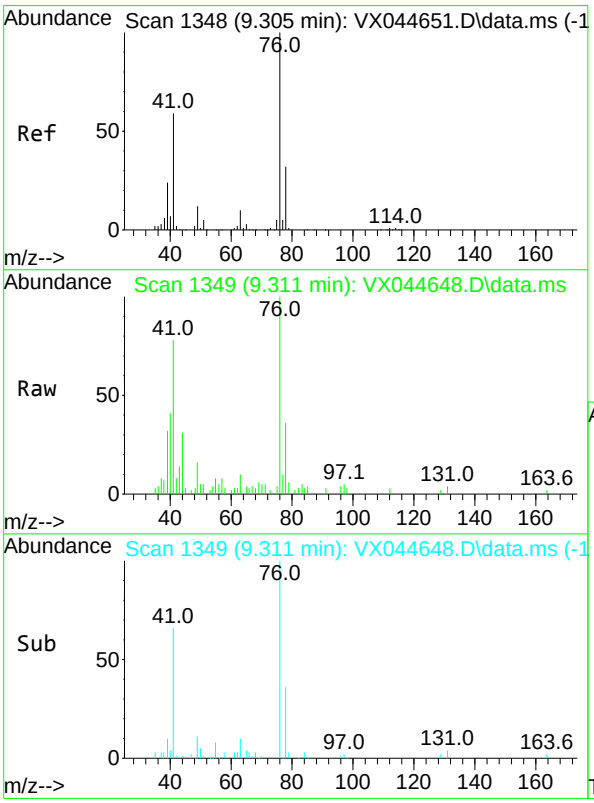
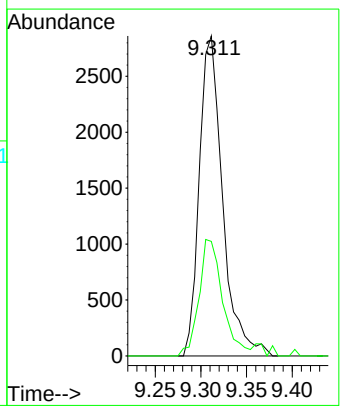
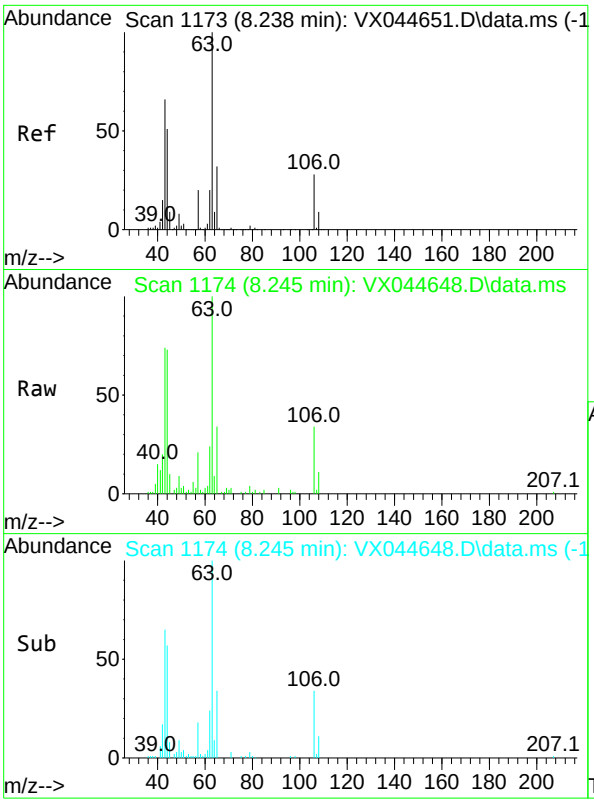



#57
1,3-Dichloropropane
Concen: 1.128 ug/l
RT: 9.311 min Scan# 1349
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 76 Resp: 5078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 36.9 | 26.0 | 39.0 |






#58
2-Chloroethyl Vinyl ether
Concen: 6.581 ug/l
RT: 8.245 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 63 Resp: 1468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.8 | 23.0 | 34.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

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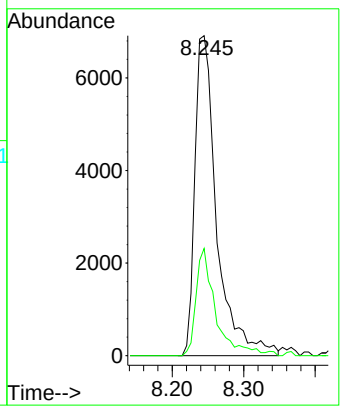
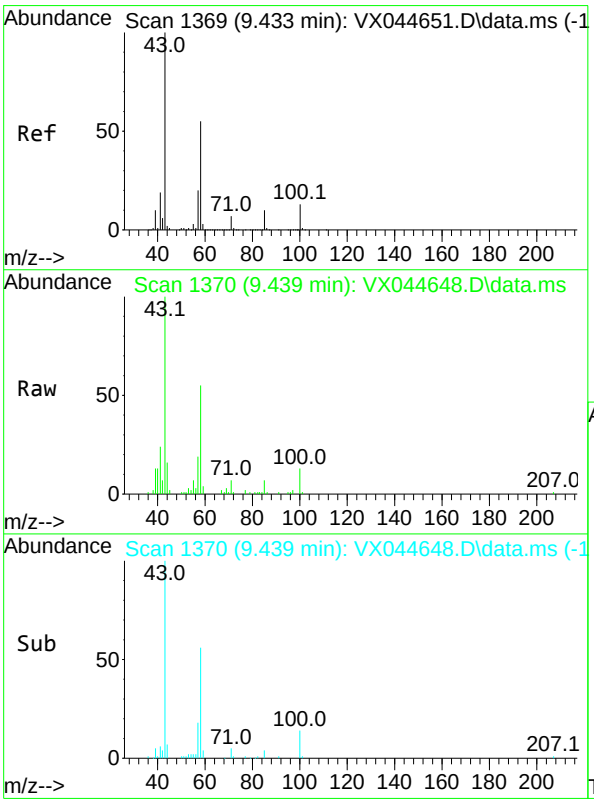
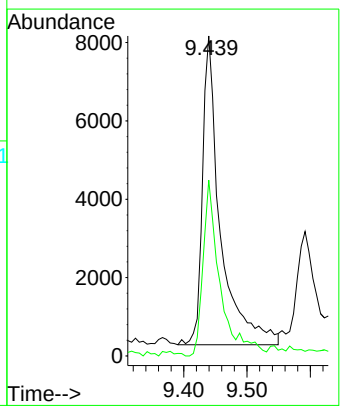


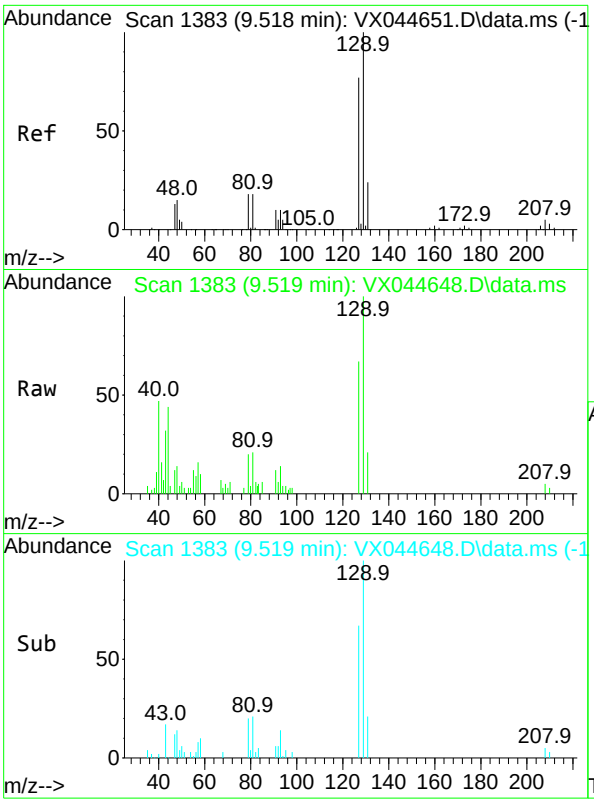




#59
2-Hexanone
Concen: 5.643 ug/l
RT: 9.439 min Scan# 1370
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 15480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.4 | 27.8 | 83.3 |






#60
Dibromochloromethane
Concen: 1.127 ug/l
RT: 9.519 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:129 Resp: 349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.5 | 115.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
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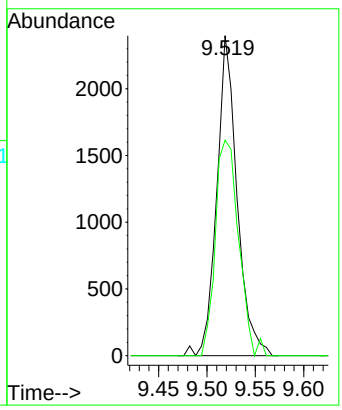
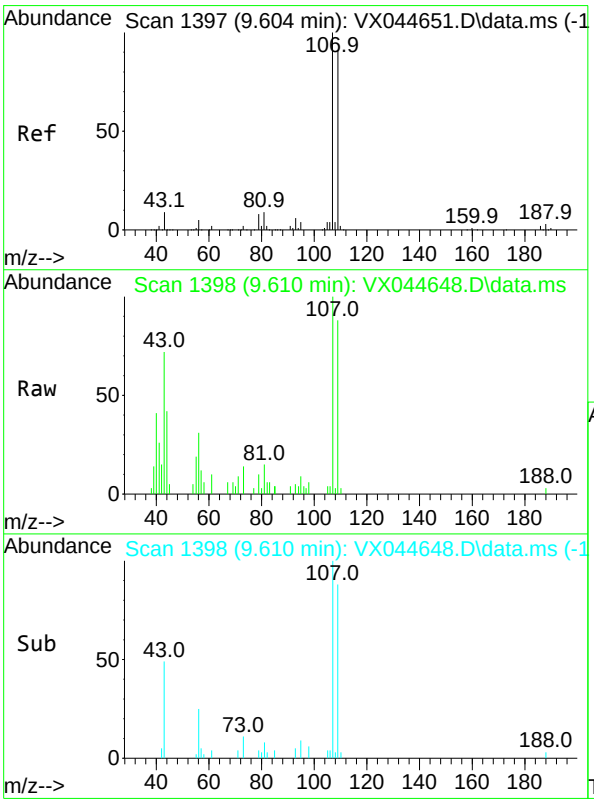
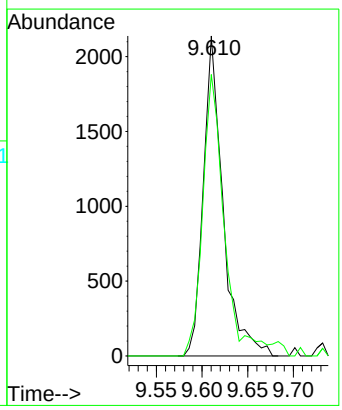


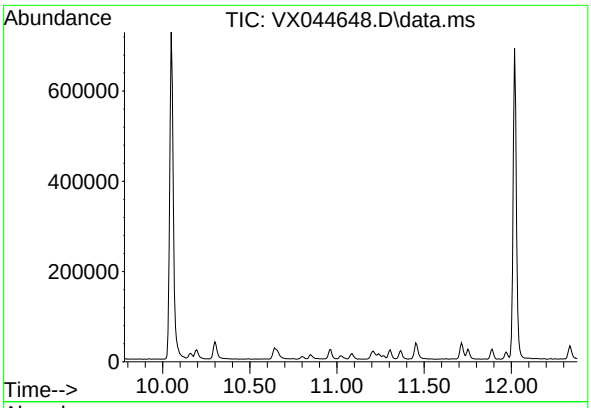




#61
1,2-Dibromoethane
Concen: 1.155 ug/l
RT: 9.610 min Scan# 1398
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:107 Resp: 3200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 98.2 | 75.3 | 112.9 |






#62
4-Bromofluorobenzene
Concen: 0.000 ug/l
Expected RT: 11.08 min

Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

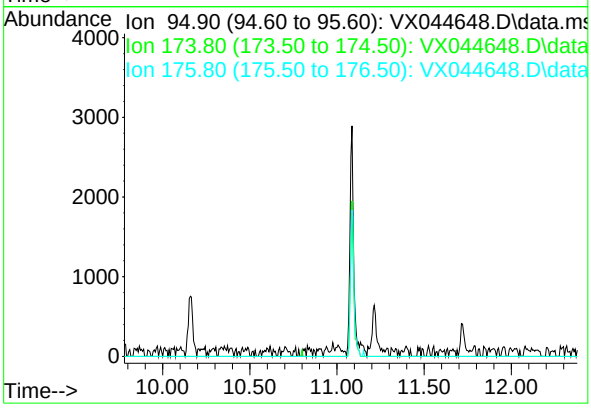
Tgt Ion: 95

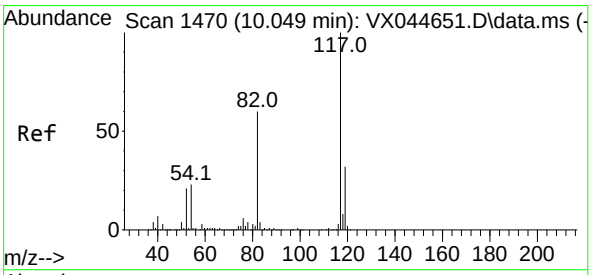
| Sig | Exp Ratio |
|---|---|
| 95 | 100 |
| 174 | 66.5 |
| 176 | 64.7 |

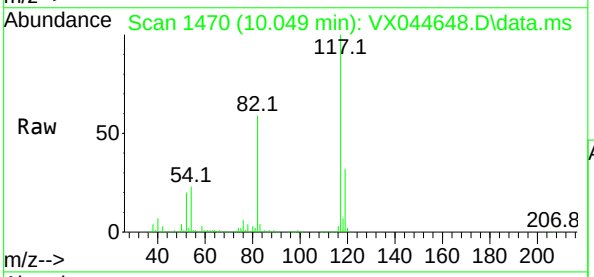
**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

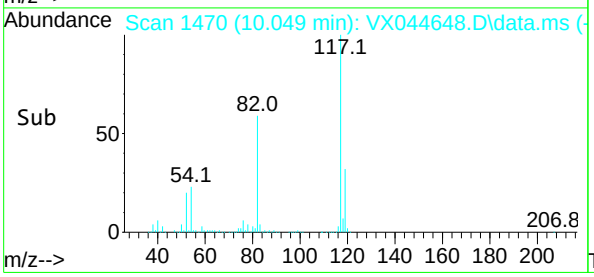
**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025



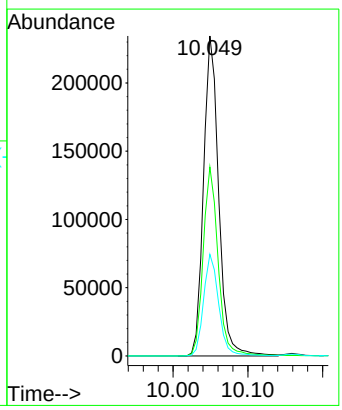



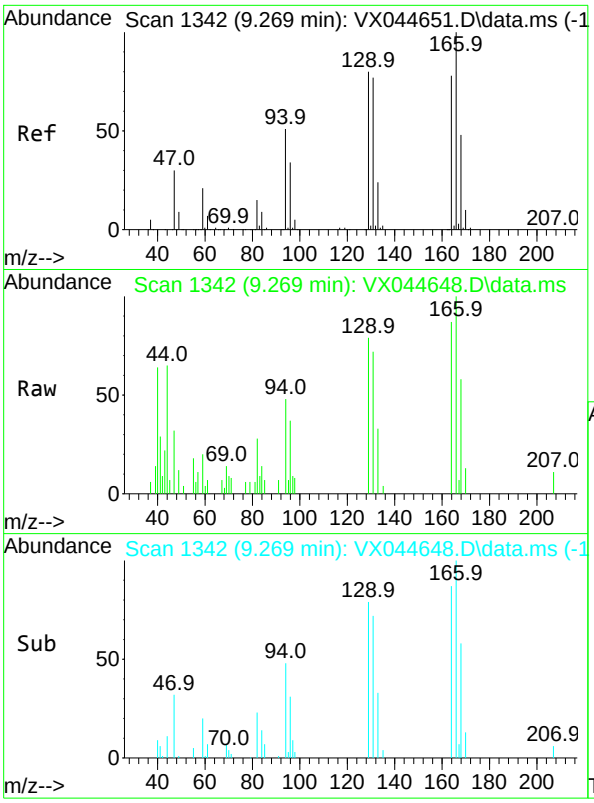




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:117 Resp: 329917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.0 | 47.6 | 71.4 |
| 119 | 31.7 | 25.4 | 38.2 |






#64
Tetrachloroethene
Concen: 1.101 ug/l
RT: 9.269 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

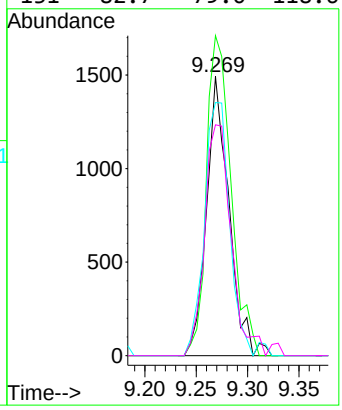
Tgt Ion:164 Resp: 228

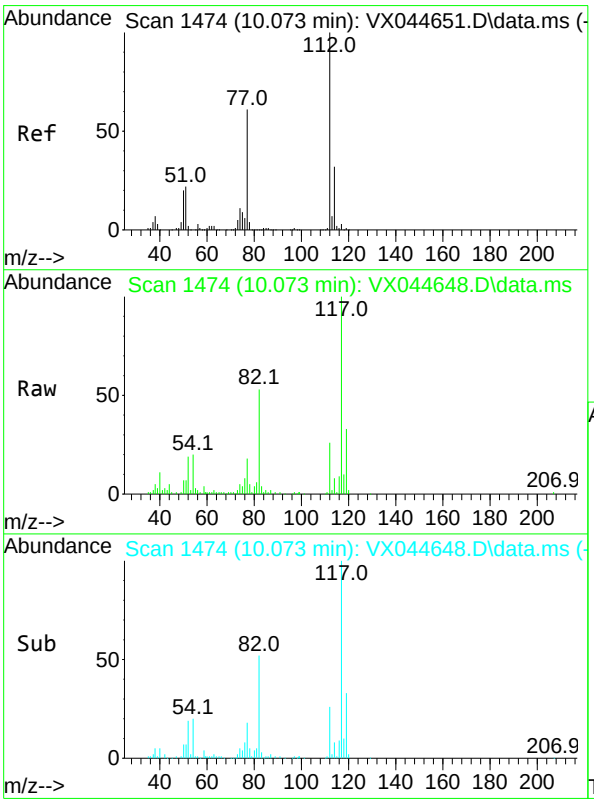
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 114.6 | 102.0 | 153.0 |
| 129 | 90.7 | 81.1 | 121.7 |
| 131 | 82.7 | 79.0 | 118.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

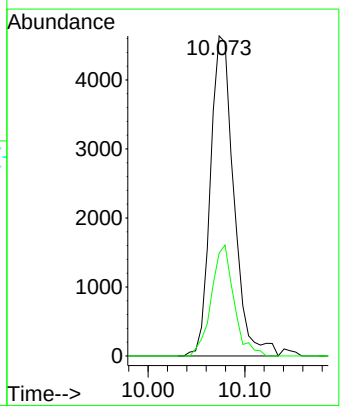


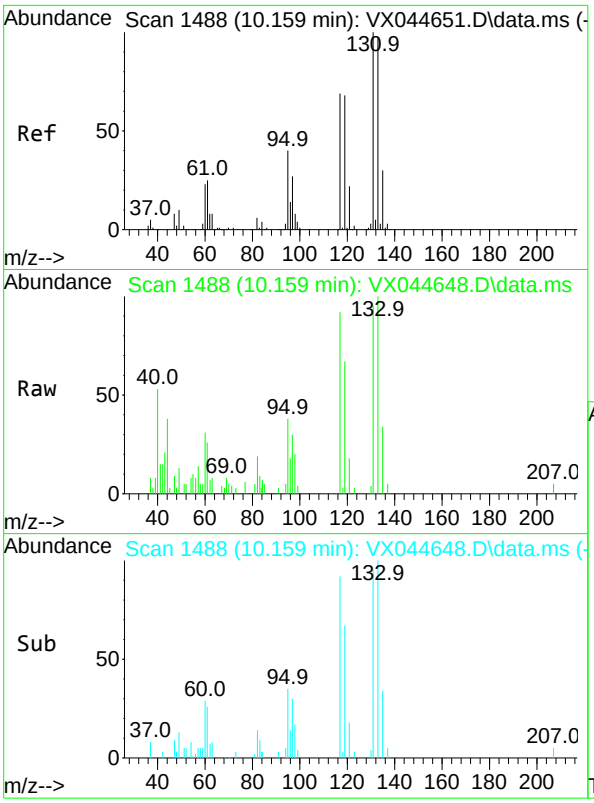




#65
Chlorobenzene
Concen: 1.109 ug/l
RT: 10.073 min Scan# 1474
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:112 Resp: 7770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 25.3 | 37.9 |






#66
1,1,1,2-Tetrachloroethane
Concen: 1.087 ug/l
RT: 10.159 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

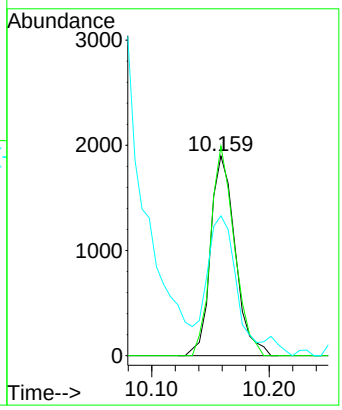
Tgt Ion:131 Resp: 276

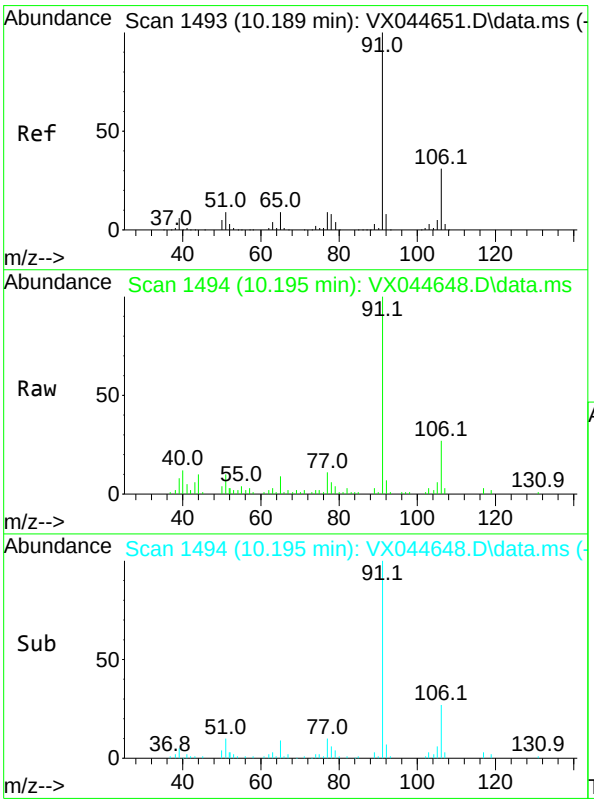
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 100.8 | 47.8 | 143.3 |
| 119 | 0.0 | 33.4 | 100.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

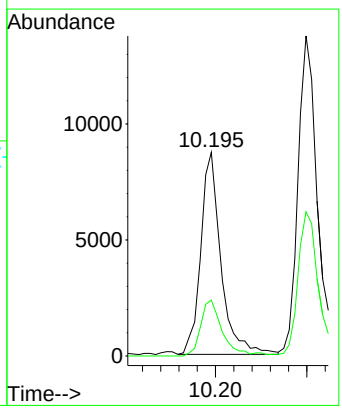


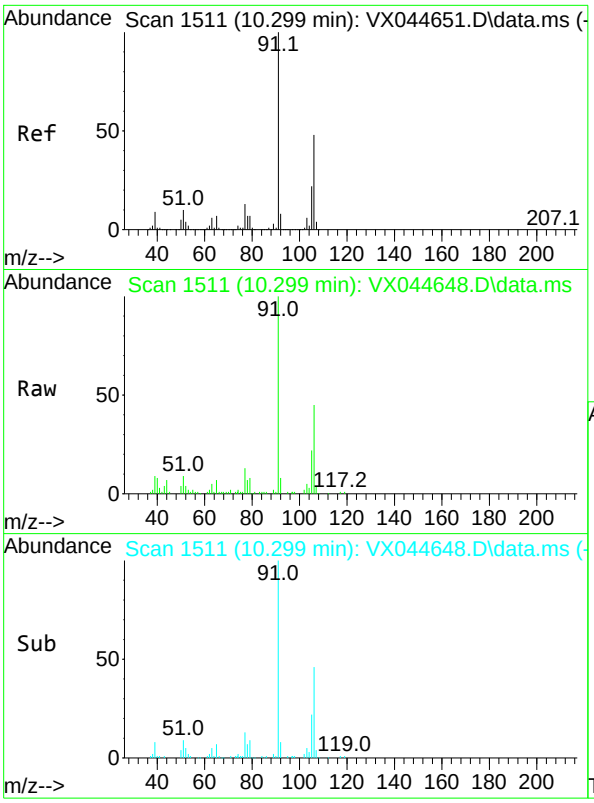




#67
Ethyl Benzene
Concen: 1.093 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 91 Resp: 13366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.6 | 25.0 | 37.6 |






#68
m/p-Xylenes
Concen: 2.244 ug/l
RT: 10.299 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

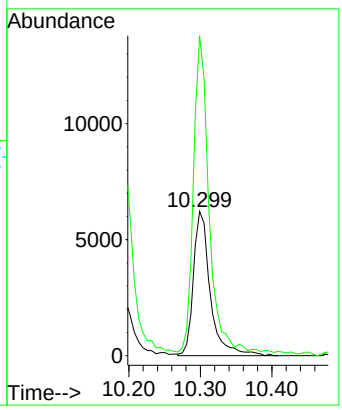
Tgt Ion:106 Resp: 1018

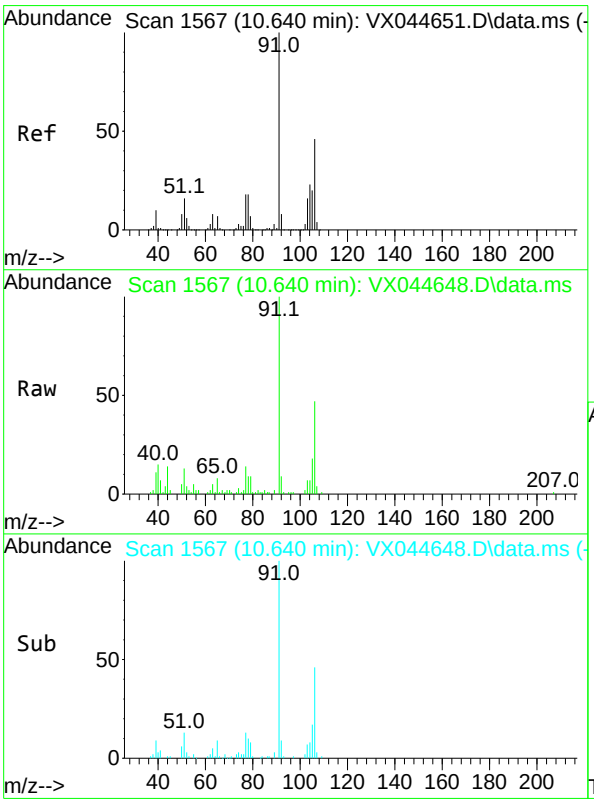
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.4 | 166.4 | 249.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

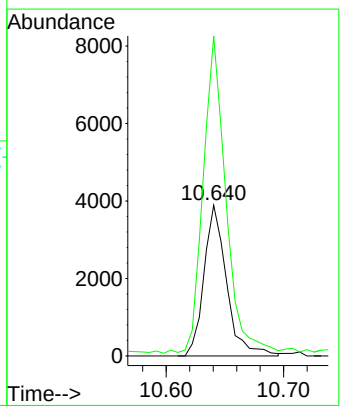


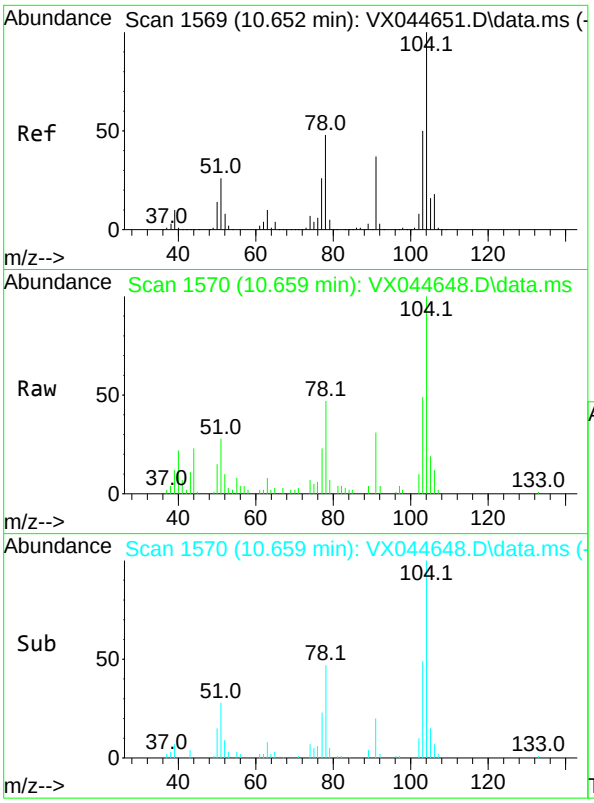




#69
o-Xylene
Concen: 1.132 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:106 Resp: 5193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 213.5 | 108.7 | 326.3 |






#70
Styrene
Concen: 1.044 ug/l
RT: 10.659 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:104 Resp: 773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 61.6 | 43.0 | 64.6 |
| 103 | 56.1 | 43.4 | 65.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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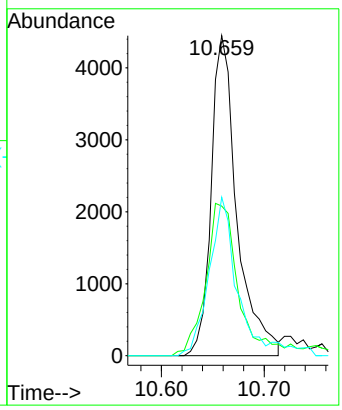
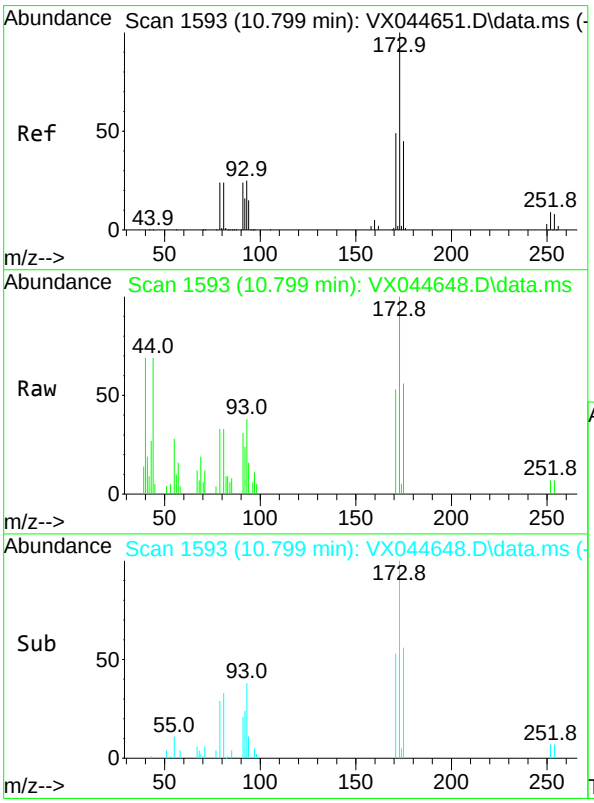
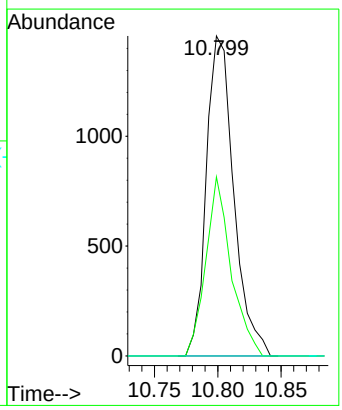


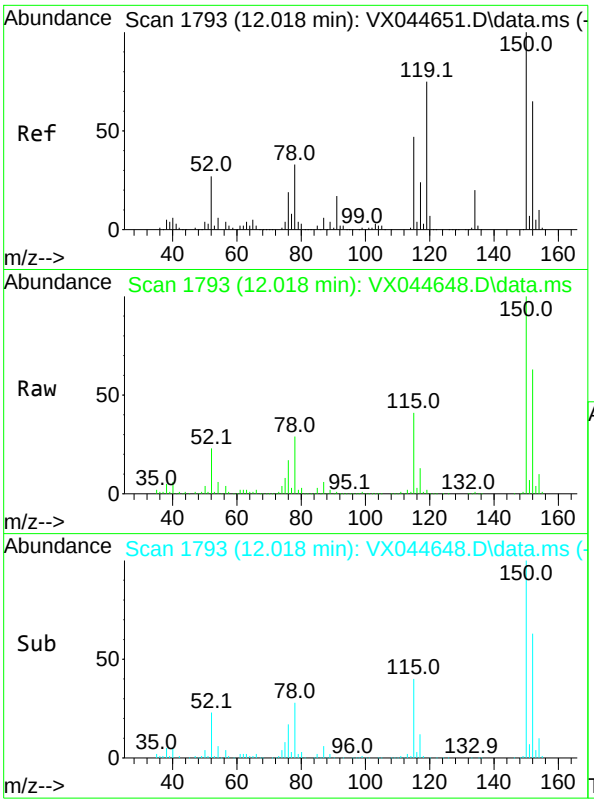




#71
Bromoform
Concen: 1.058 ug/l
RT: 10.799 min Scan# 1593
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:173 Resp: 2194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.7 | 23.6 | 70.8 |
| 254 | 0.0 | 0.1 | 0.1# |

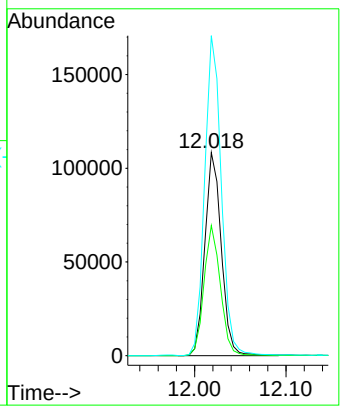





#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:152 Resp: 13528

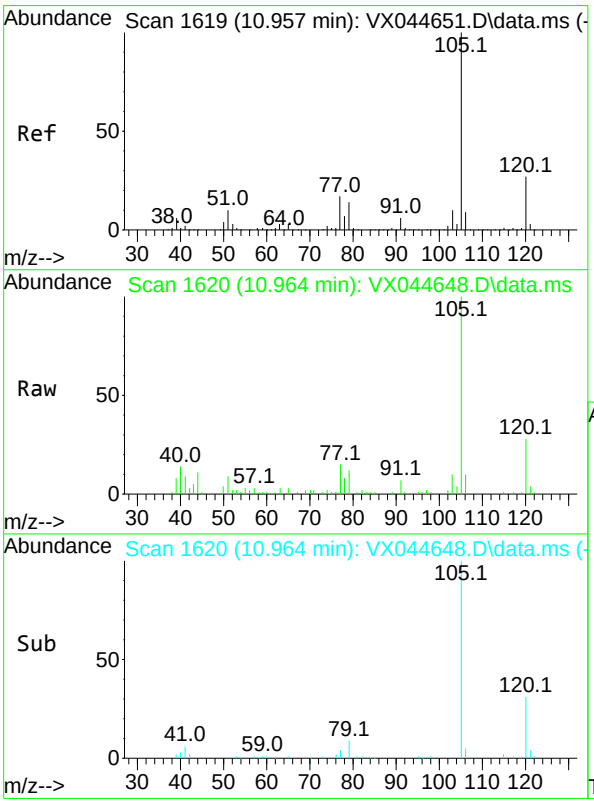
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.1 | 43.8 | 131.4 |
| 150 | 159.9 | 0.0 | 347.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

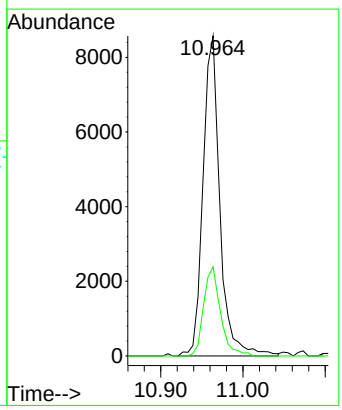
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

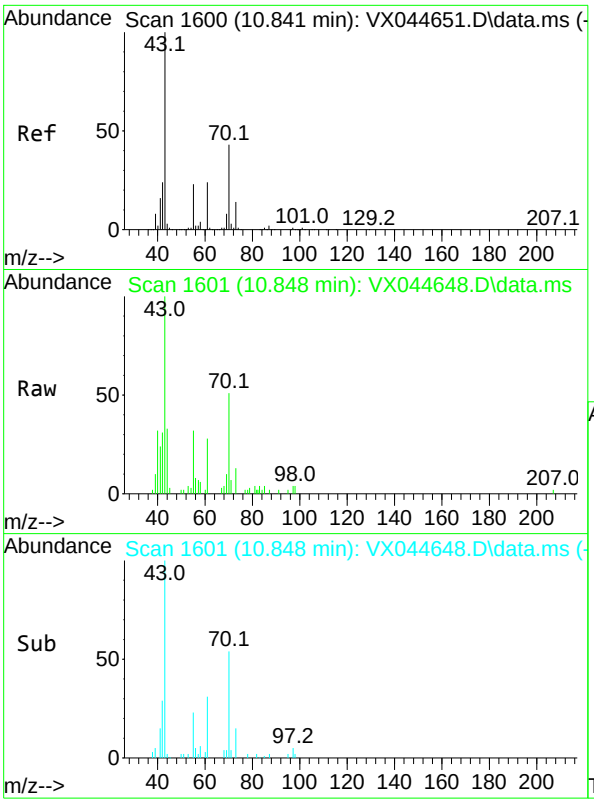



#73
Isopropylbenzene
Concen: 1.105 ug/l
RT: 10.964 min Scan# 1620
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:105 Resp: 12214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.8 | 13.2 | 39.6 |

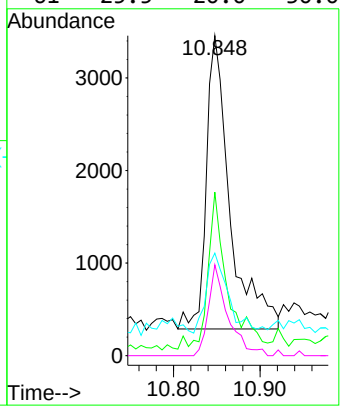





#74
N-amyl acetate
Concen: 1.107 ug/l
RT: 10.848 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.6 | 35.2 | 52.8 |
| 55 | 25.6 | 19.0 | 28.4 |
| 61 | 25.5 | 20.0 | 30.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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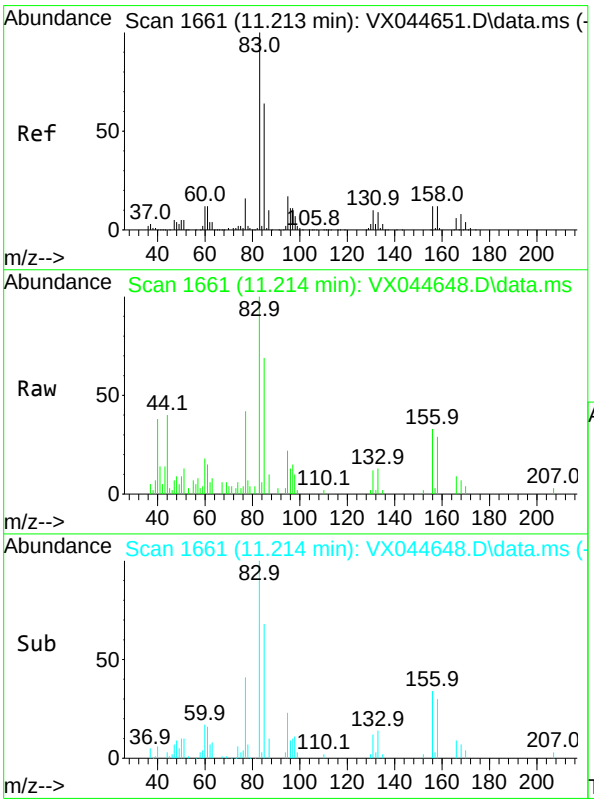
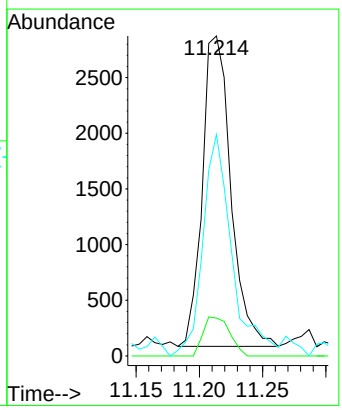
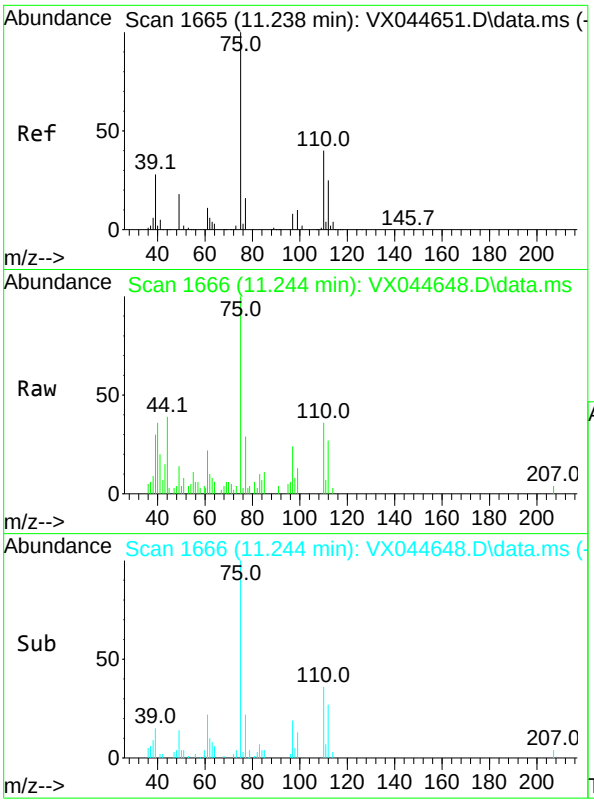



#75
1,1,2,2-Tetrachloroethane
Concen: 1.147 ug/l
RT: 11.214 min Scan# 1661
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 83 Resp: 4377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.7 | 5.0 | 14.9 |
| 85 | 72.0 | 32.0 | 96.2 |






#76
1,2,3-Trichloropropane
Concen: 1.119 ug/l m
RT: 11.244 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 75 Resp: 357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 56.8 | 23.4 | 70.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

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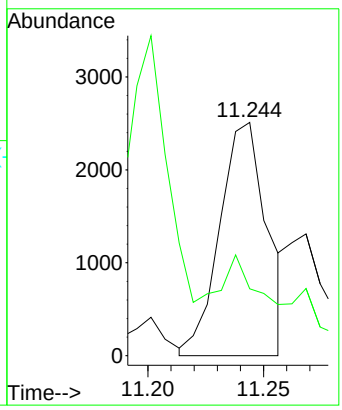
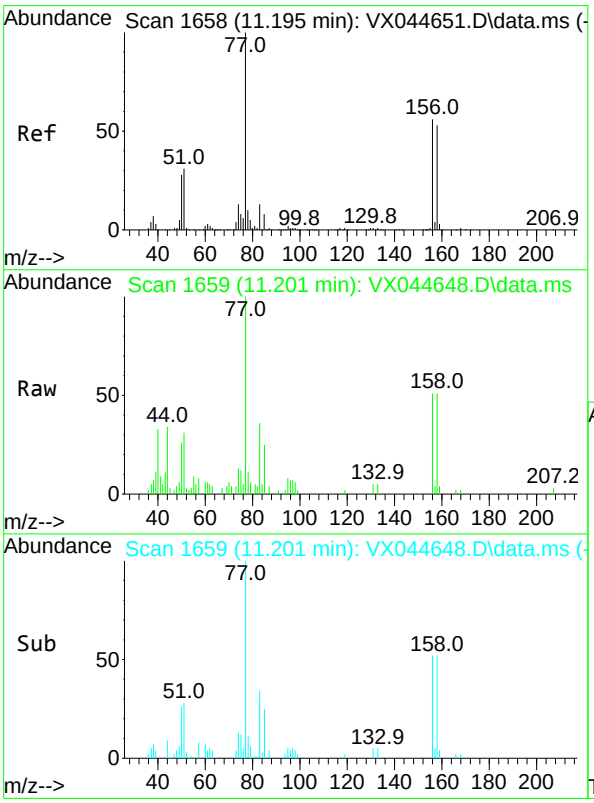
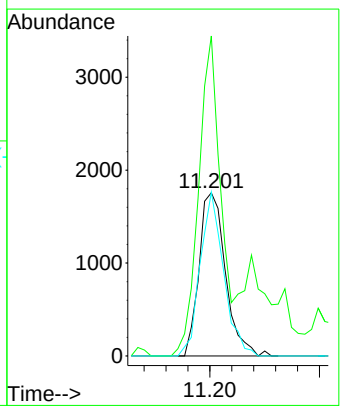


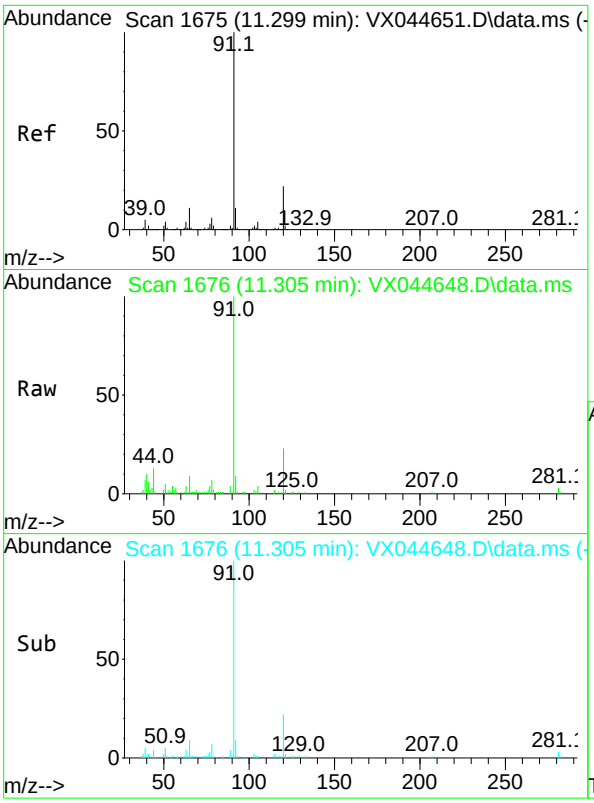




#77
Bromobenzene
Concen: 1.137 ug/l
RT: 11.201 min Scan# 1659
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:156 Resp: 2937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 170.8 | 90.3 | 271.0 |
| 158 | 89.3 | 48.4 | 145.3 |

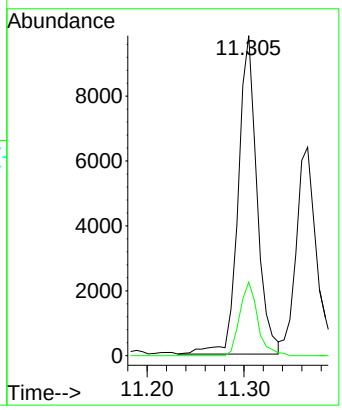





#78
n-propylbenzene
Concen: 1.088 ug/l
RT: 11.305 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 91 Resp: 1326

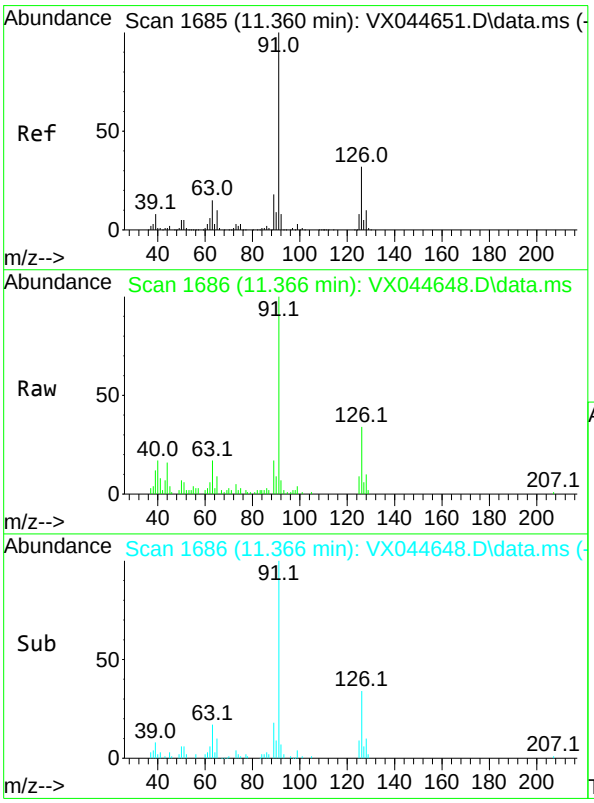
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.9 | 11.4 | 34.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

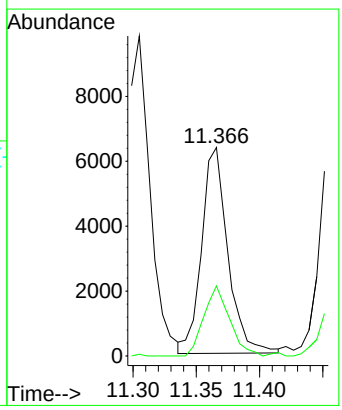
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

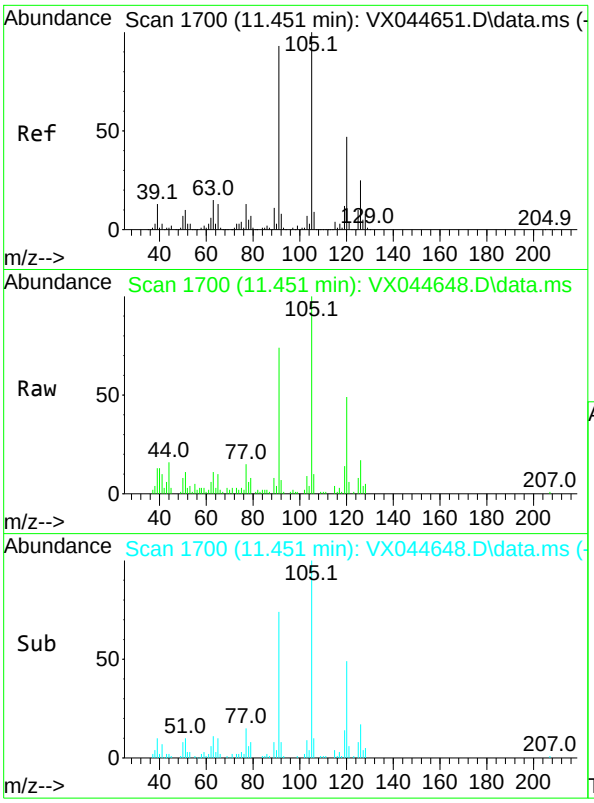



#79
2-Chlorotoluene
Concen: 1.163 ug/l
RT: 11.366 min Scan# 1686
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 91 Resp: 9159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.2 | 16.2 | 48.5 |






#80
1,3,5-Trimethylbenzene
Concen: 1.115 ug/l
RT: 11.451 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

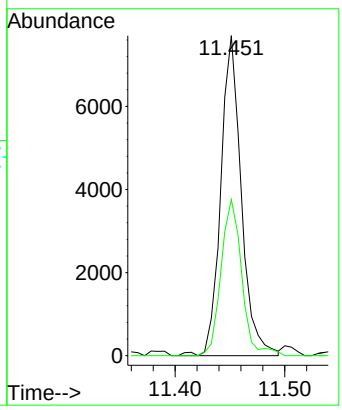
Tgt Ion:105 Resp: 1003

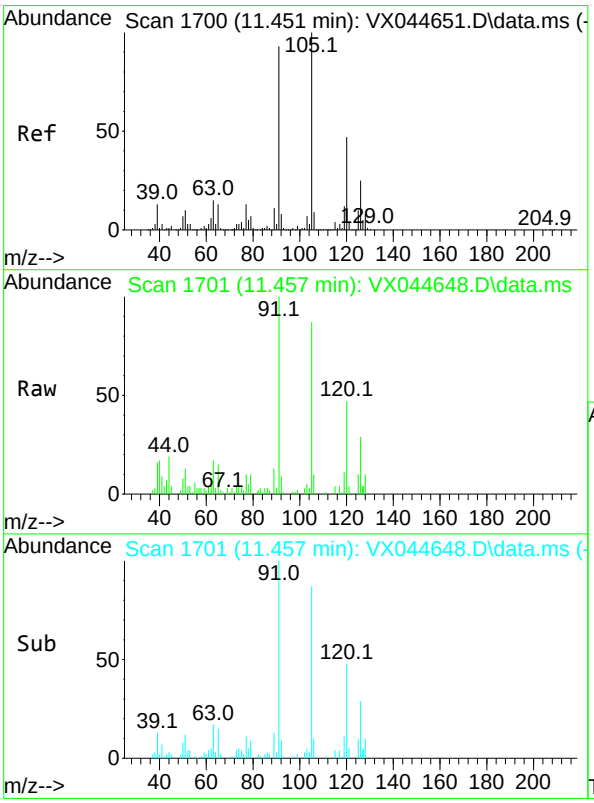
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.2 | 23.7 | 71.1 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

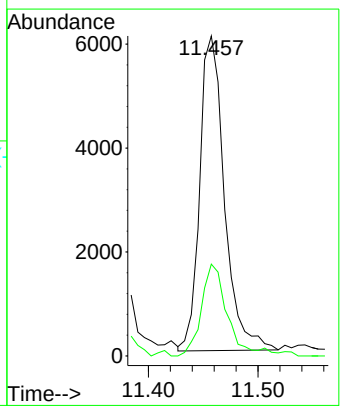


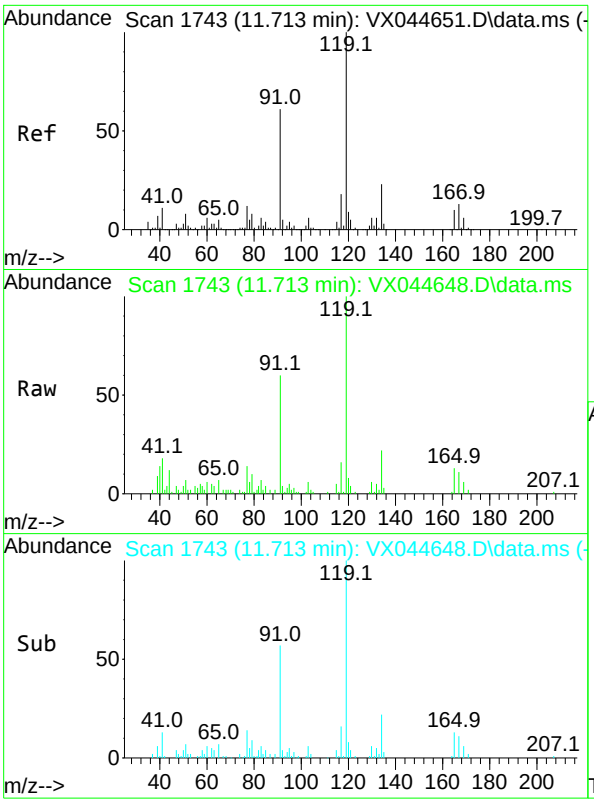




#82
4-Chlorotoluene
Concen: 1.101 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 91 Resp: 9494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.3 | 13.9 | 41.7 |

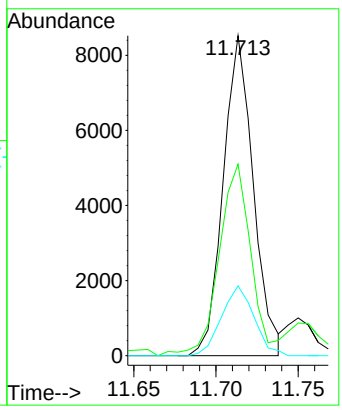





#83
tert-Butylbenzene
Concen: 1.155 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:119 Resp: 1086

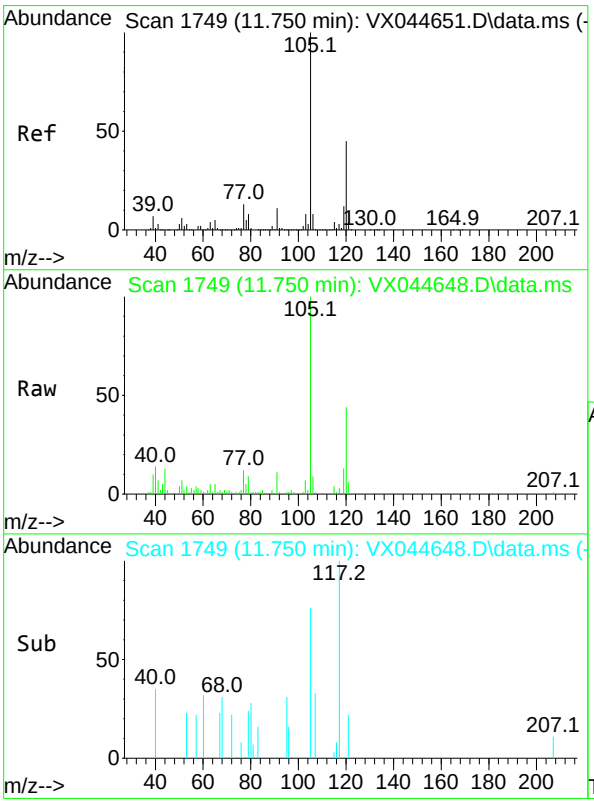
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.4 | 30.0 | 90.0 |
| 134 | 23.5 | 11.2 | 33.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

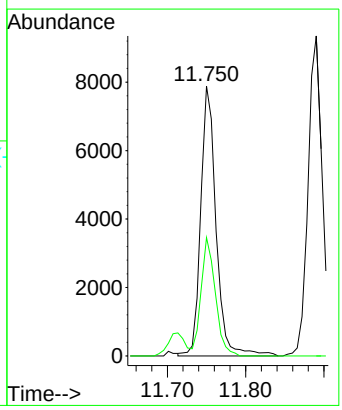
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

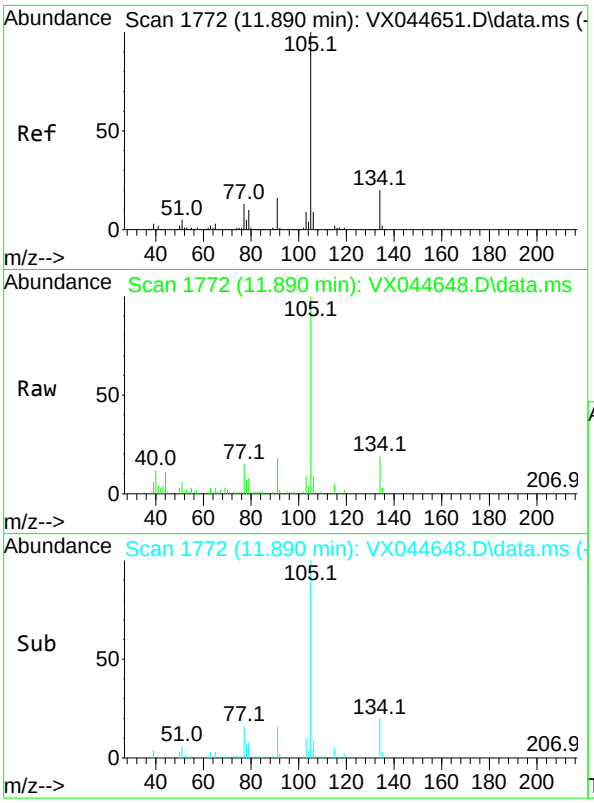



#84
1,2,4-Trimethylbenzene
Concen: 1.174 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:105 Resp: 10735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 40.5 | 22.2 | 66.6 |

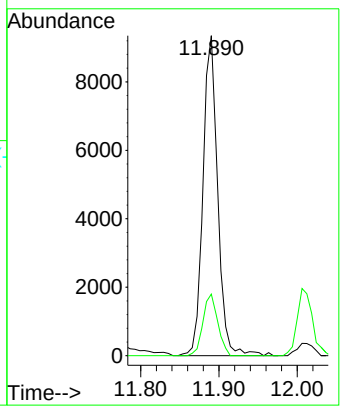





#85
sec-Butylbenzene
Concen: 1.115 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:105 Resp: 1221

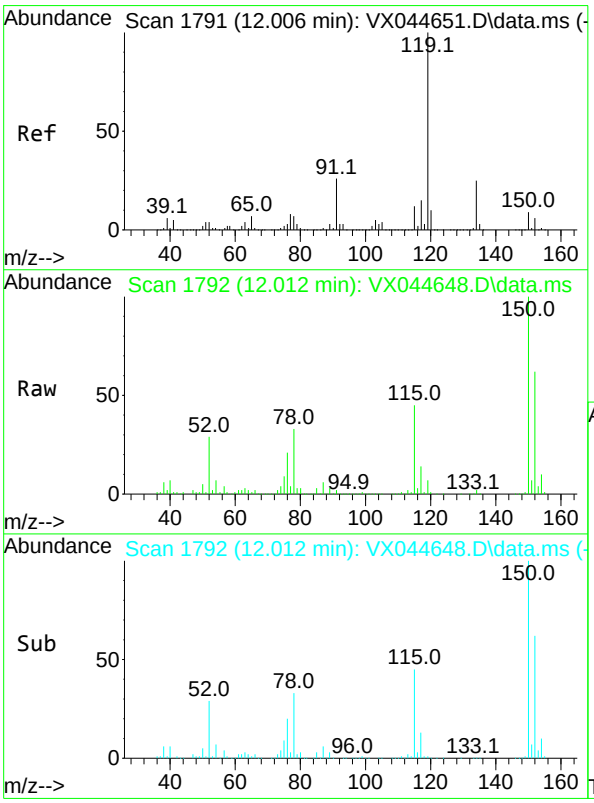
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.8 | 29.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

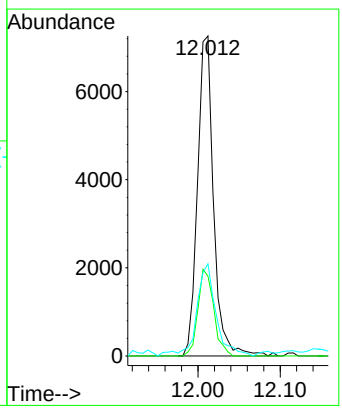
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

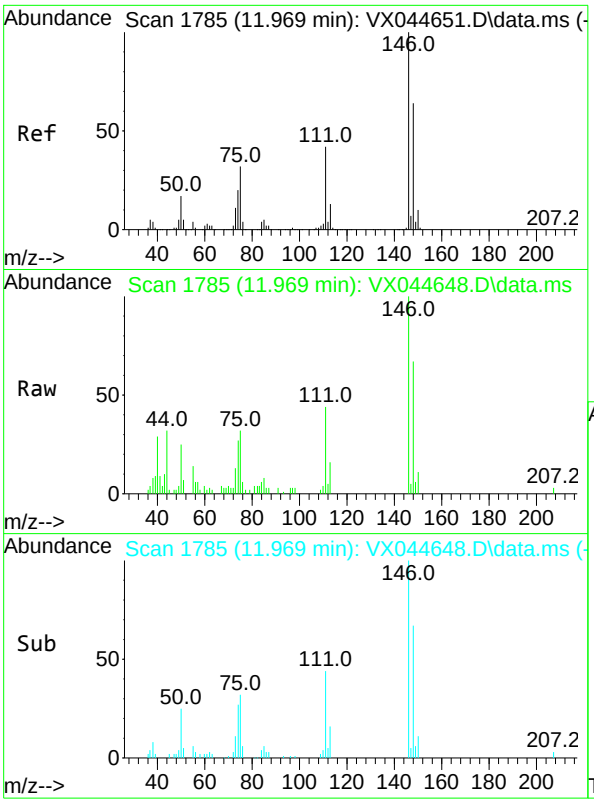



#86
p-Isopropyltoluene
Concen: 1.101 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:119 Resp: 9910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 12.8 | 38.4 |
| 91 | 34.4 | 12.7 | 38.1 |

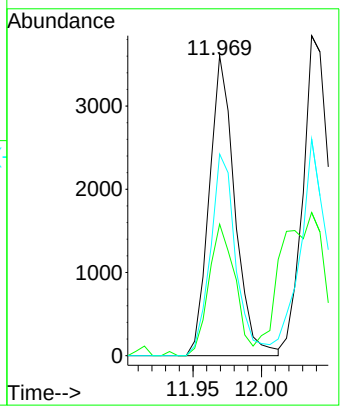





#87
1,3-Dichlorobenzene
Concen: 1.046 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:146 Resp: 468

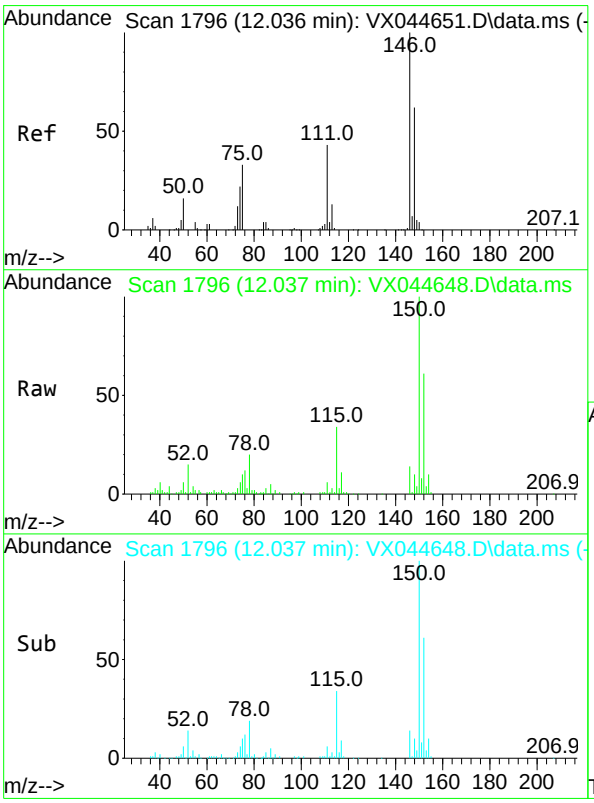
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.8 | 21.9 | 65.7 |
| 148 | 67.2 | 31.8 | 95.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

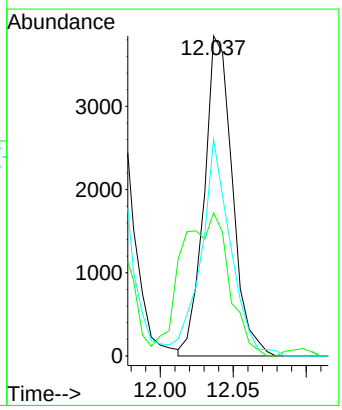
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

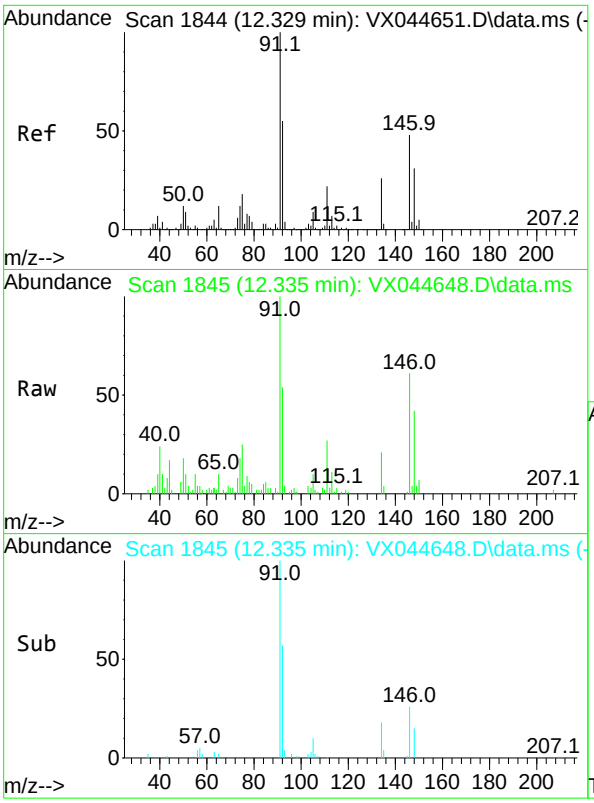



#88
1,4-Dichlorobenzene
Concen: 1.163 ug/l m
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:146 Resp: 5172

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 40.6 | 21.5 | 64.5 |
| 148 | 60.9 | 32.1 | 96.5 |

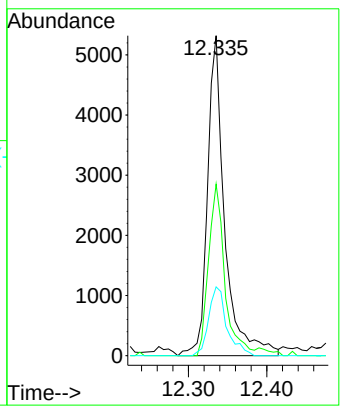





#89
n-Butylbenzene
Concen: 1.047 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 91 Resp: 809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 50.5 | 27.4 | 82.0 |
| 134 | 22.8 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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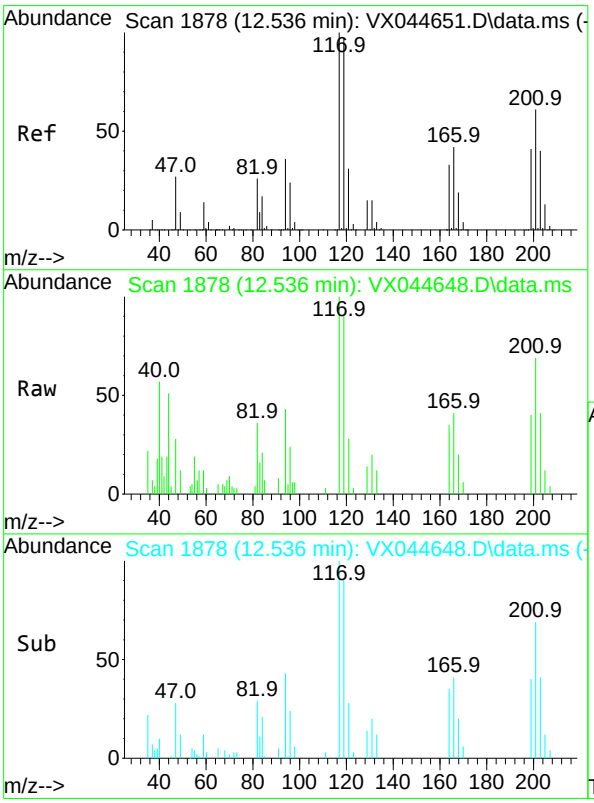
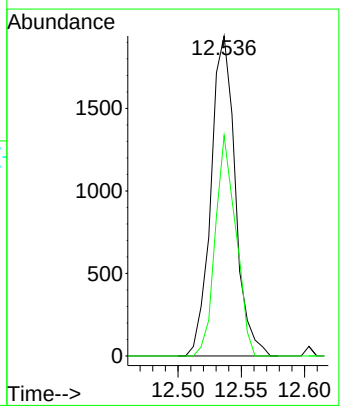
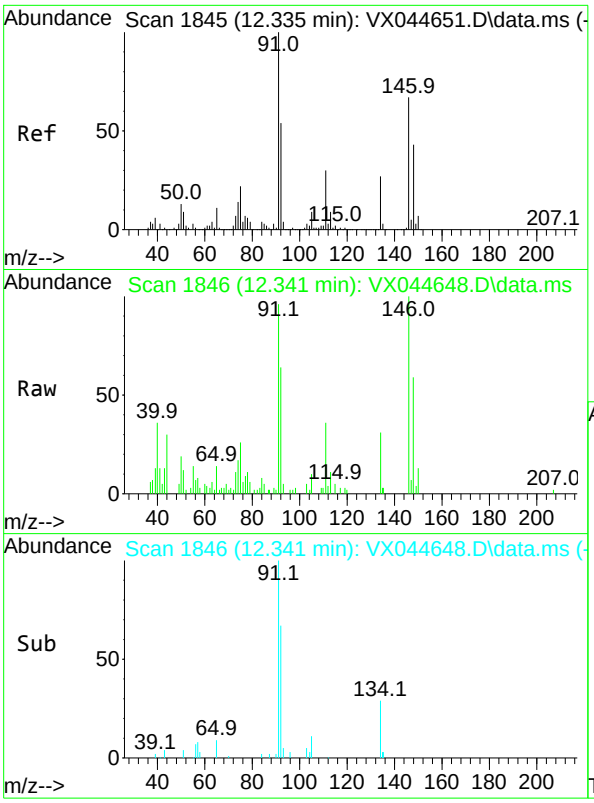



#90
Hexachloroethane
Concen: 1.270 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:117 Resp: 2589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 58.4 | 32.3 | 96.8 |

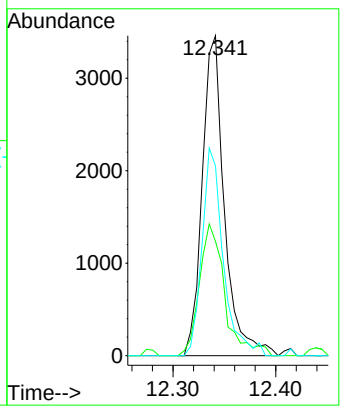





#91
1,2-Dichlorobenzene
Concen: 1.128 ug/l
RT: 12.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:146 Resp: 519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.0 | 22.4 | 67.2 |
| 148 | 62.3 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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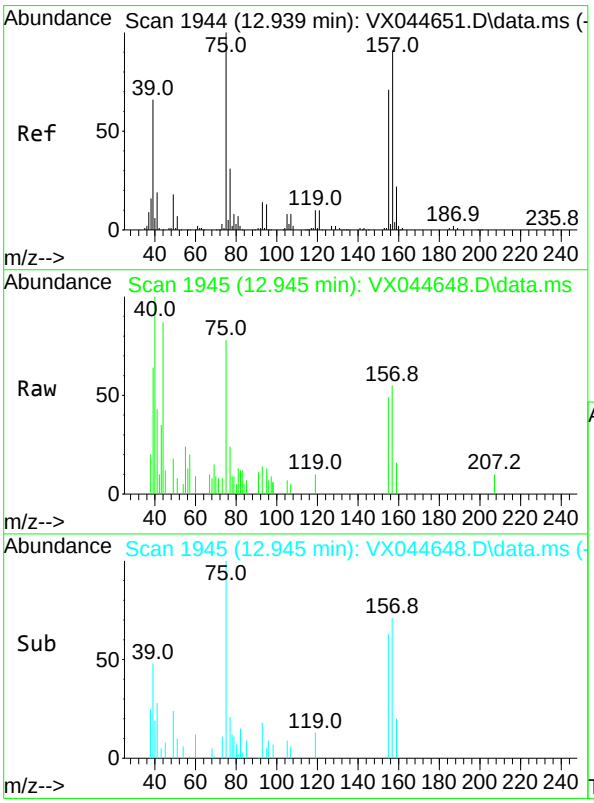
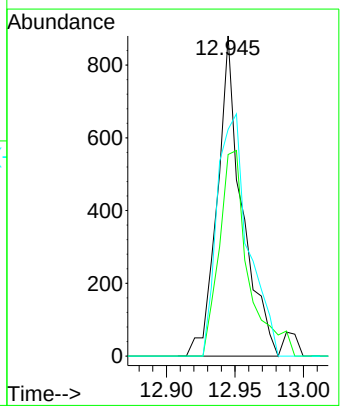
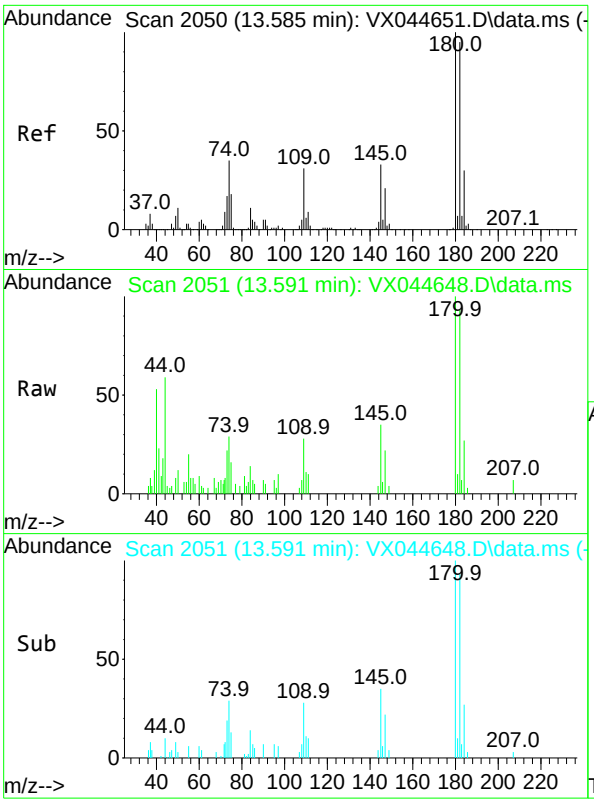



#92
1,2-Dibromo-3-Chloropropane
Concen: 1.178 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 75 Resp: 1100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 75.9 | 39.0 | 116.9 |
| 157 | 95.6 | 49.9 | 149.7 |

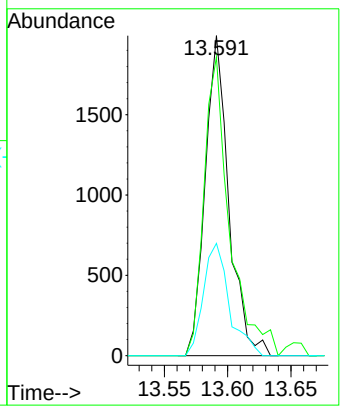





#93
1,2,4-Trichlorobenzene
Concen: 0.941 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:180 Resp: 258

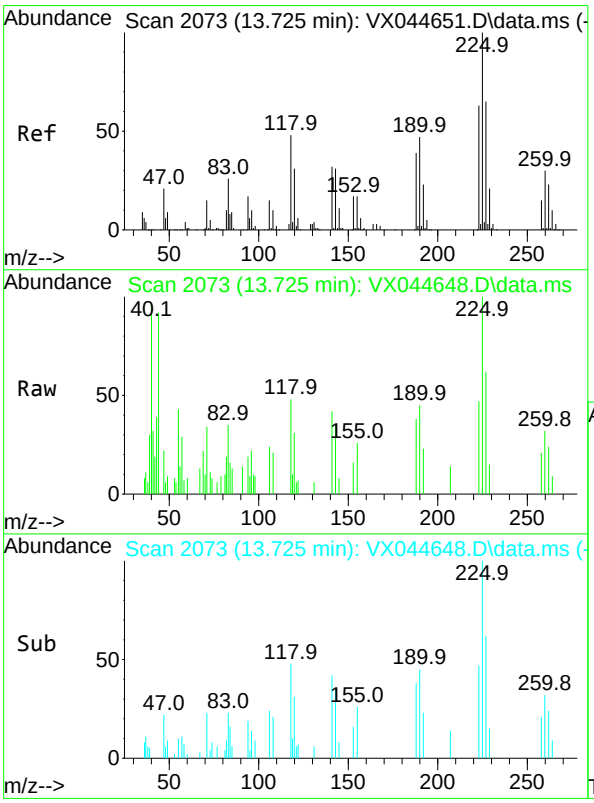
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 101.8 | 47.4 | 142.2 |
| 145 | 38.4 | 16.7 | 50.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

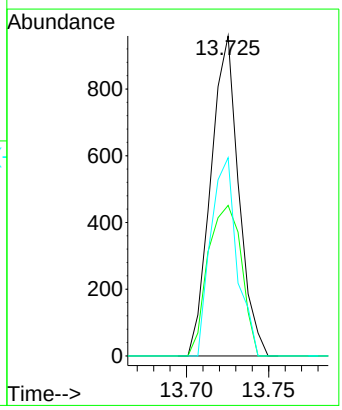
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

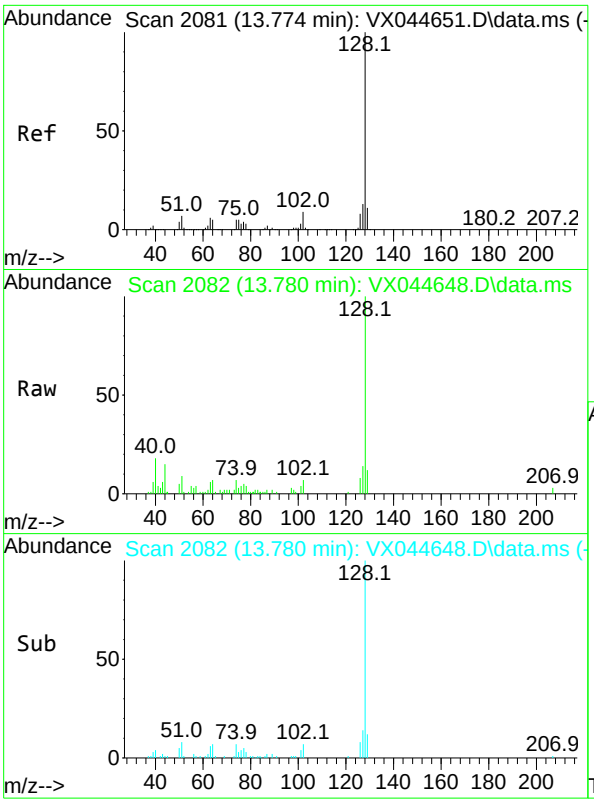



#94
Hexachlorobutadiene
Concen: 1.049 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:225 Resp: 1133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 56.4 | 31.9 | 95.7 |
| 227 | 57.7 | 31.8 | 95.4 |

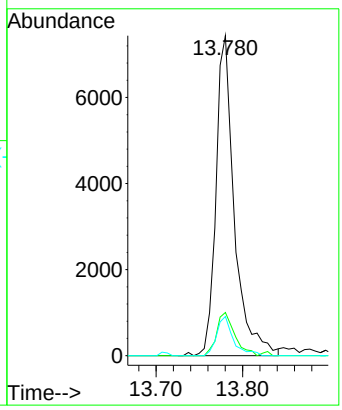





#95
Naphthalene
Concen: 1.033 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:128 Resp: 1095

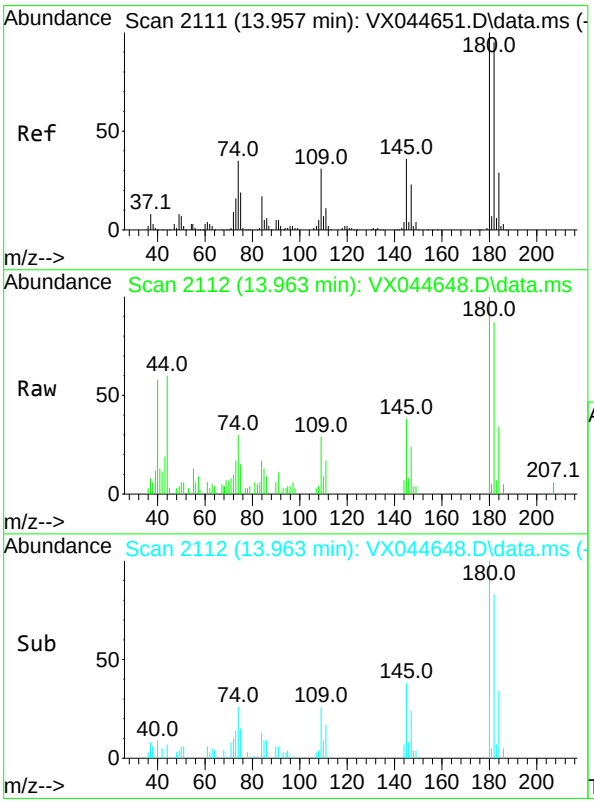
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.3 | 15.5 |
| 129 | 11.1 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

**Manual Integrations**
**APPROVED**

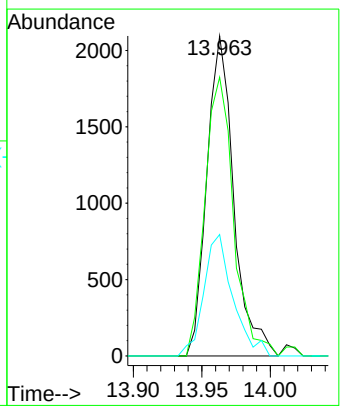
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 1.004 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:180 Resp: 2863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.5 | 47.2 | 141.6 |
| 145 | 40.9 | 17.5 | 52.6 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044649.D
Acq On : 15 Jan 2025 11:17
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 194627 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 357706 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 300165 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 123491 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.958 | 65 | 16795 | 5.717 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 11.440%# | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 12712 | 5.594 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 11.180%# | | | |
| 50) Toluene-d8 | 8.647 | 98 | 45425 | 5.733 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 11.460%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 15909 | 5.386 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 10.780%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 11790 | 4.502 | ug/l | | 96 |
| 3) Chloromethane | 1.301 | 50 | 13859 | 4.893 | ug/l | | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 13246 | 4.734 | ug/l | | 97 |
| 5) Bromomethane | 1.593 | 94 | 3303 | 4.943 | ug/l | | 98 |
| 6) Chloroethane | 1.660 | 64 | 2387 | 4.652 | ug/l | # | 83 |
| 7) Trichlorofluoromethane | 1.868 | 101 | 14571 | 4.711 | ug/l | | 95 |
| 8) Diethyl Ether | 2.136 | 74 | 6231 | 4.992 | ug/l | | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 10967 | 4.717 | ug/l | | 99 |
| 10) Methyl Iodide | 2.441 | 142 | 15920 | 5.016 | ug/l | | 99 |
| 11) Tert butyl alcohol | 2.989 | 59 | 20543m | 31.009 | ug/l | | |
| 12) 1,1-Dichloroethene | 2.307 | 96 | 10636 | 4.667 | ug/l | | 91 |
| 13) Acrolein | 2.239 | 56 | 11045 | 35.838 | ug/l | | 95 |
| 14) Allyl chloride | 2.654 | 41 | 21748 | 4.901 | ug/l | | 97 |
| 15) Acrylonitrile | 3.069 | 53 | 32783 | 25.521 | ug/l | | 98 |
| 16) Acetone | 2.386 | 43 | 26927 | 23.167 | ug/l | | 97 |
| 17) Carbon Disulfide | 2.502 | 76 | 30278 | 4.869 | ug/l | | 97 |
| 18) Methyl Acetate | 2.703 | 43 | 16192 | 4.516 | ug/l | | 95 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 41254 | 4.998 | ug/l | | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 13610 | 5.028 | ug/l | | 97 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 11813 | 4.965 | ug/l | | 98 |
| 22) Diisopropyl ether | 3.764 | 45 | 39716 | 5.149 | ug/l | | 92 |
| 23) Vinyl Acetate | 3.721 | 43 | 175668 | 26.022 | ug/l | | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 22655 | 4.953 | ug/l | | 98 |
| 25) 2-Butanone | 4.568 | 43 | 43210 | 25.004 | ug/l | | 96 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 21972 | 4.957 | ug/l | | 98 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 14297 | 4.777 | ug/l | | 97 |
| 28) Bromochloromethane | 4.891 | 49 | 10785 | 5.046 | ug/l | | 100 |
| 29) Tetrahydrofuran | 5.007 | 42 | 27602 | 24.762 | ug/l | | 98 |
| 30) Chloroform | 5.086 | 83 | 23860 | 5.169 | ug/l | | 93 |
| 31) Cyclohexane | 5.458 | 56 | 18252 | 4.934 | ug/l | | 94 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 20169 | 4.753 | ug/l | | 99 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 15040 | 4.754 | ug/l | | 94 |
| 37) Ethyl Acetate | 4.721 | 43 | 17349 | 5.150 | ug/l | | 95 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 17983 | 5.054 | ug/l | | 92 |
| 39) Methylcyclohexane | 7.373 | 83 | 19848 | 4.727 | ug/l | | 95 |
| 40) Benzene | 6.038 | 78 | 49235 | 5.023 | ug/l | | 98 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044649.D
Acq On : 15 Jan 2025 11:17
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Jan 16 00:59:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.934 | 41 | 9920 | 5.124 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.086 | 62 | 17678 | 4.941 | ug/l | | 97 |
| 43) Isopropyl Acetate | 6.342 | 43 | 30226 | 4.877 | ug/l | | 99 |
| 44) Trichloroethene | 7.123 | 130 | 11427 | 4.849 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 12829 | 5.199 | ug/l | | 97 |
| 46) Dibromomethane | 7.580 | 93 | 9684 | 5.156 | ug/l | | 94 |
| 47) Bromodichloromethane | 7.818 | 83 | 18964 | 4.923 | ug/l | | 94 |
| 48) Methyl methacrylate | 7.696 | 41 | 13933 | 4.844 | ug/l | | 97 |
| 49) 1,4-Dioxane | 7.677 | 88 | 5674 | 94.542 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 87503 | 25.551 | ug/l | | 98 |
| 52) Toluene | 8.714 | 92 | 30892 | 5.149 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 19714 | 4.954 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 21054 | 4.879 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 9.153 | 97 | 12227 | 5.037 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.116 | 69 | 20596 | 4.935 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 21253 | 5.142 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 50319 | 24.557 | ug/l | | 100 |
| 59) 2-Hexanone | 9.433 | 43 | 63985 | 25.395 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.519 | 129 | 14553 | 5.108 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 12916 | 5.077 | ug/l | | 97 |
| 64) Tetrachloroethene | 9.269 | 164 | 9274 | 4.920 | ug/l | | 93 |
| 65) Chlorobenzene | 10.073 | 112 | 32572 | 5.109 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 11955 | 5.160 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 55208 | 4.963 | ug/l | | 98 |
| 68) m/p-Xylenes | 10.299 | 106 | 41816 | 10.129 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 21392 | 5.124 | ug/l | | 96 |
| 70) Styrene | 10.653 | 104 | 34407 | 5.105 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 9452 | 5.012 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.963 | 105 | 52599 | 5.214 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 25282 | 5.084 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 18645 | 5.351 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 16903m | 5.796 | ug/l | | |
| 77) Bromobenzene | 11.201 | 156 | 12158 | 5.156 | ug/l | | 96 |
| 78) n-propylbenzene | 11.305 | 91 | 53913 | 4.846 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.366 | 91 | 36602 | 5.093 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 43488 | 5.295 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 6607 | 5.042 | ug/l | | 95 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 39763 | 5.051 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 45606 | 5.311 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 41737 | 5.001 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 49858 | 4.987 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 41214 | 5.016 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 20268 | 4.956 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.043 | 146 | 20555 | 5.062 | ug/l | | 93 |
| 89) n-Butylbenzene | 12.329 | 91 | 33505 | 4.747 | ug/l | | 98 |
| 90) Hexachloroethane | 12.536 | 117 | 9325 | 5.012 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 21690 | 5.165 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75 | 4384 | 5.145 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 13.591 | 180 | 11649 | 4.640 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 4738 | 4.804 | ug/l | | 99 |
| 95) Naphthalene | 13.774 | 128 | 46418 | 4.794 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 12258 | 4.710 | ug/l | | 96 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044649.D
Acq On : 15 Jan 2025 11:17
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

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

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

ICAL Form

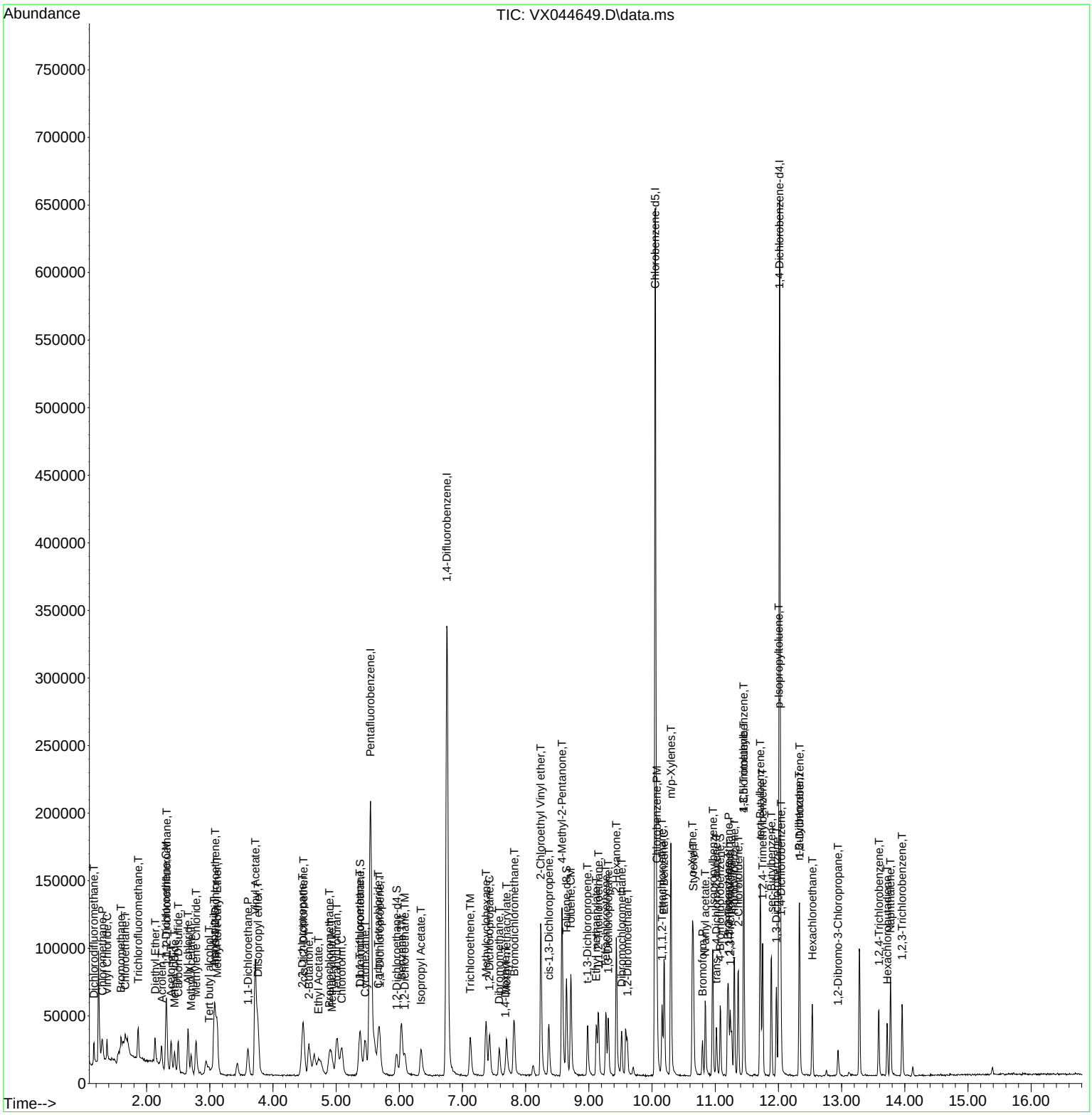
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044649.D
Acq On : 15 Jan 2025 11:17
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

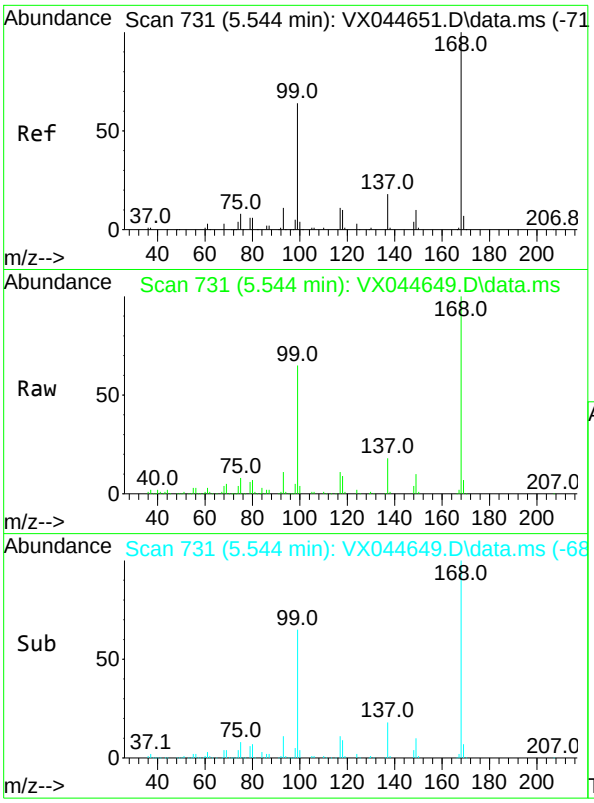
Quant Time: Jan 16 00:59:01 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

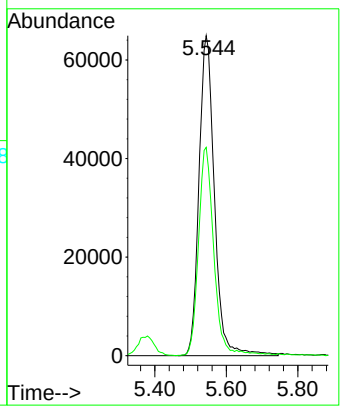





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:168 Resp: 19462

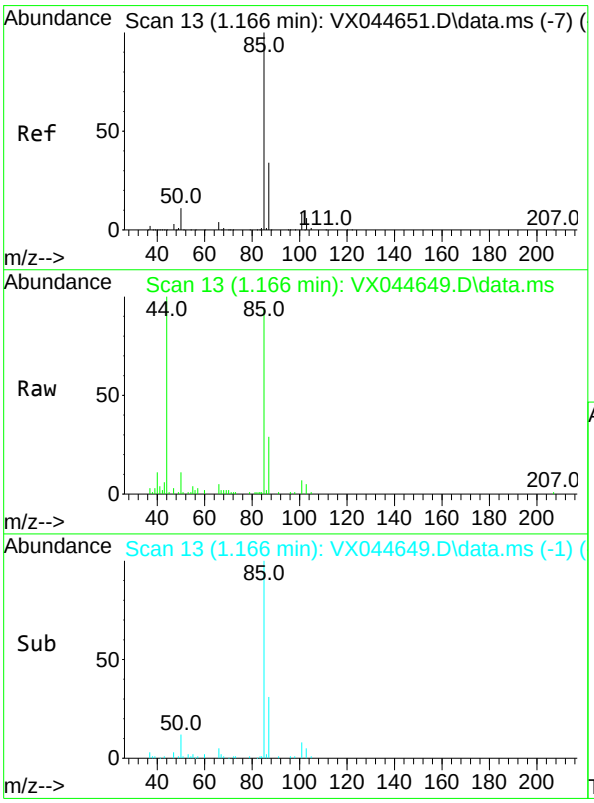
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.0 | 51.1 | 76.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

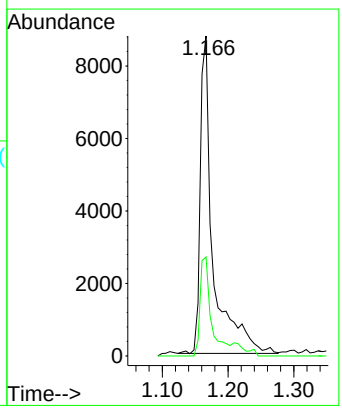
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

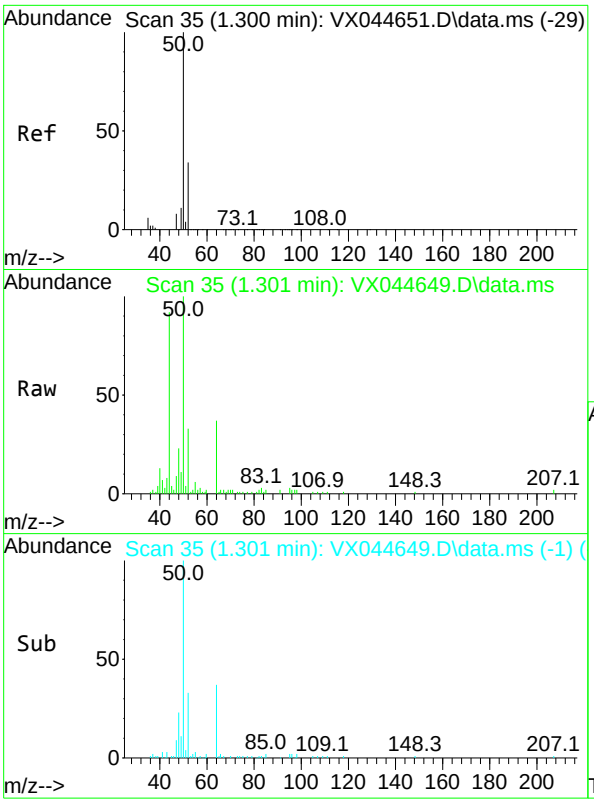



#2
Dichlorodifluoromethane
Concen: 4.502 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 85 Resp: 11790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.2 | 16.8 | 50.4 |

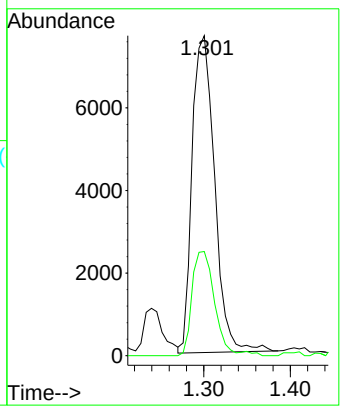





#3
Chloromethane
Concen: 4.893 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 50 Resp: 1385

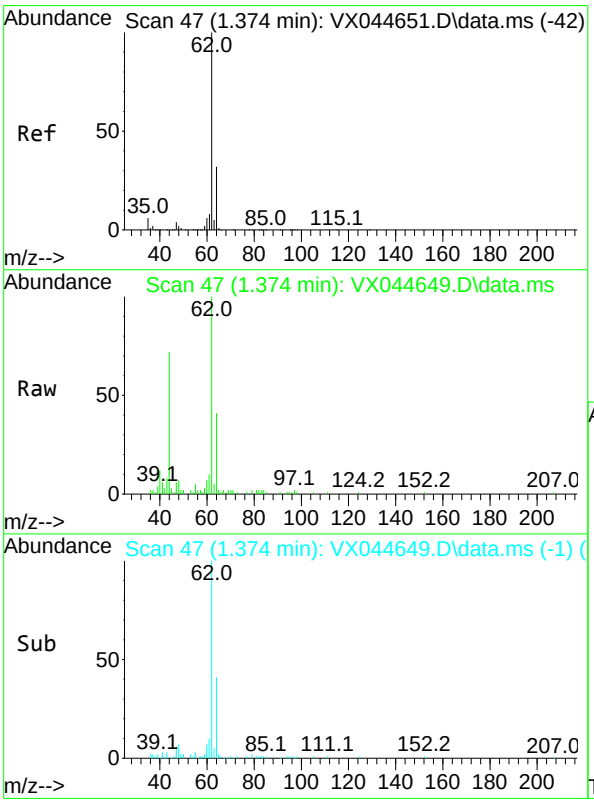
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

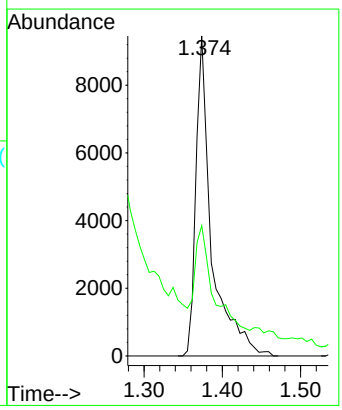
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

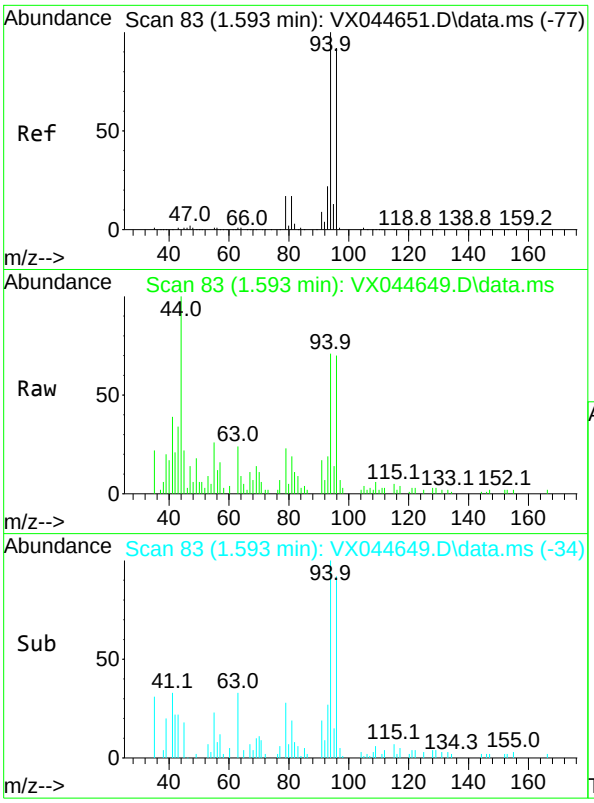



#4
Vinyl Chloride
Concen: 4.734 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 62 Resp: 13246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 35.1 | 26.6 | 39.8 |

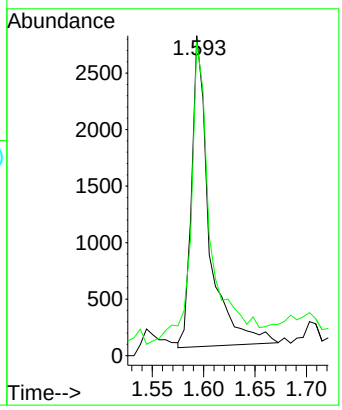





#5
Bromomethane
Concen: 4.943 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 94 Resp: 330

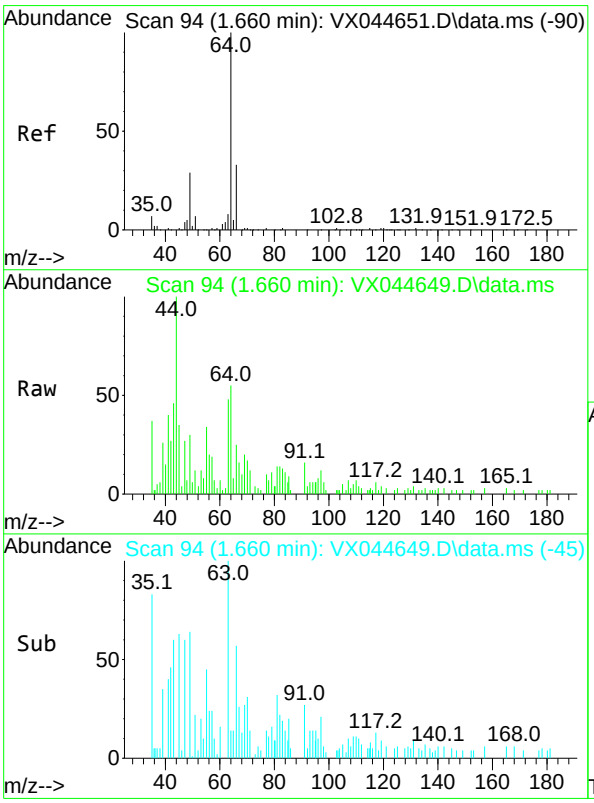
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.5 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

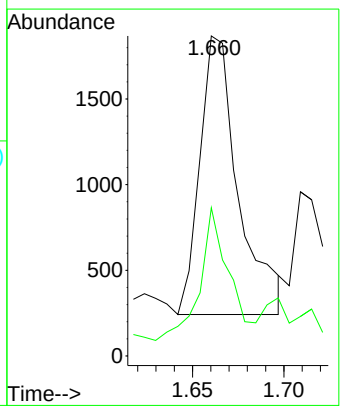
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

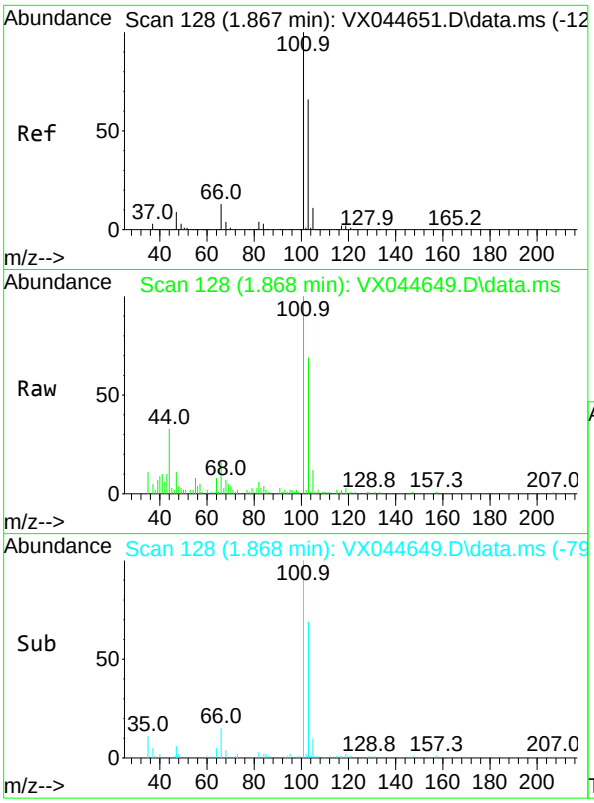



#6
Chloroethane
Concen: 4.652 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 64 Resp: 2387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 42.6 | 26.6 | 39.8# |

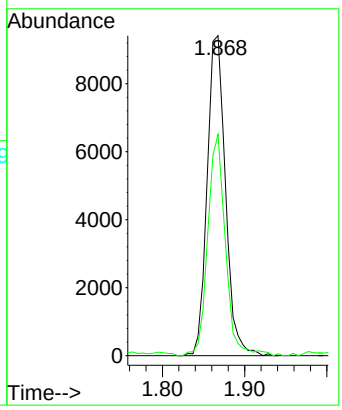





#7
Trichlorofluoromethane
Concen: 4.711 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:101 Resp: 1457

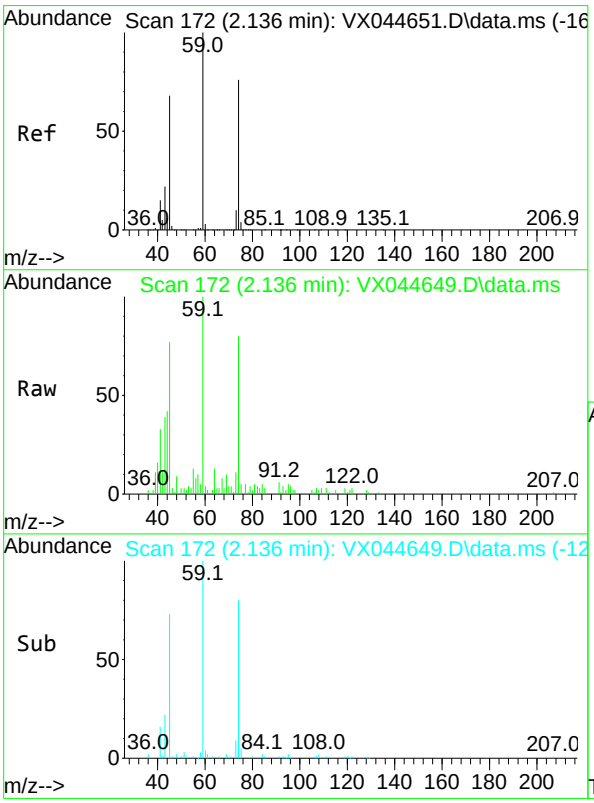
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 69.2 | 52.5 | 78.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

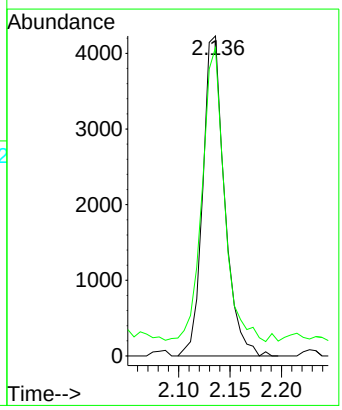
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

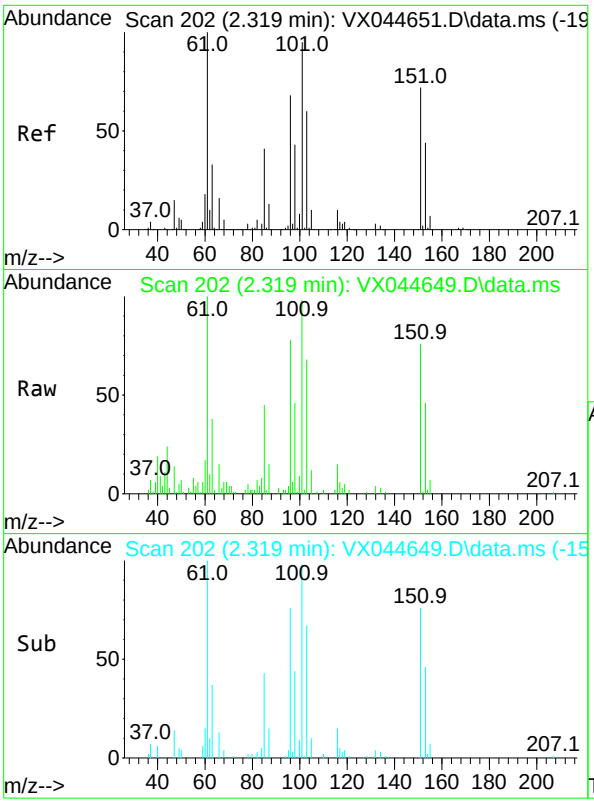



#8
Diethyl Ether
Concen: 4.992 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 74 Resp: 6231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.9 | 47.1 | 141.3 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.717 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

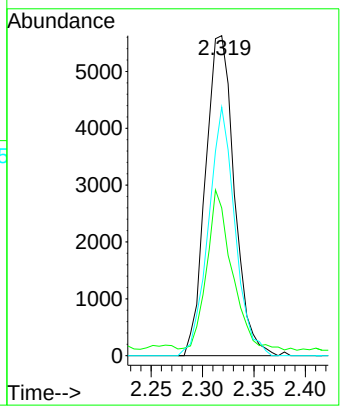
Tgt Ion:101 Resp: 1096

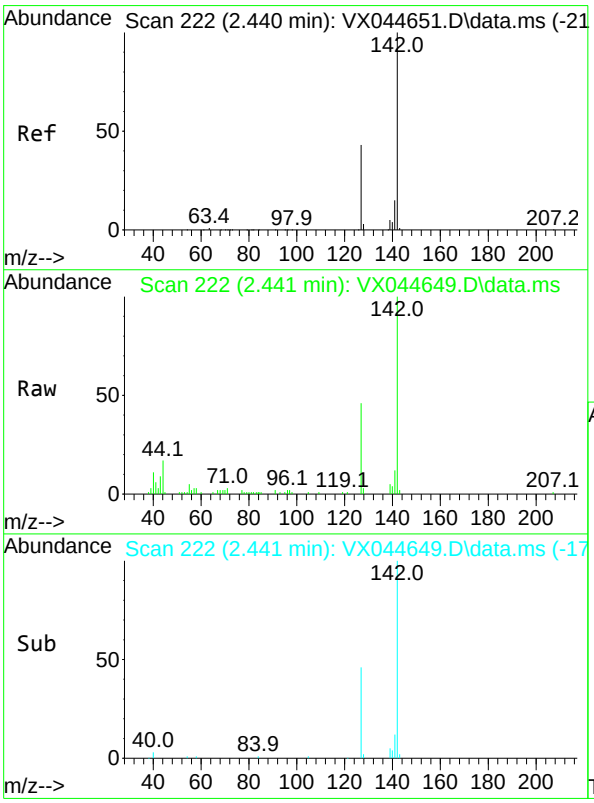
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.0 | 35.3 | 52.9 |
| 151 | 71.6 | 58.2 | 87.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

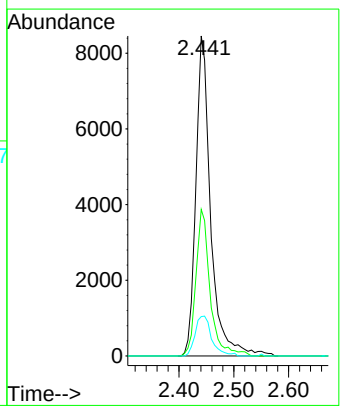


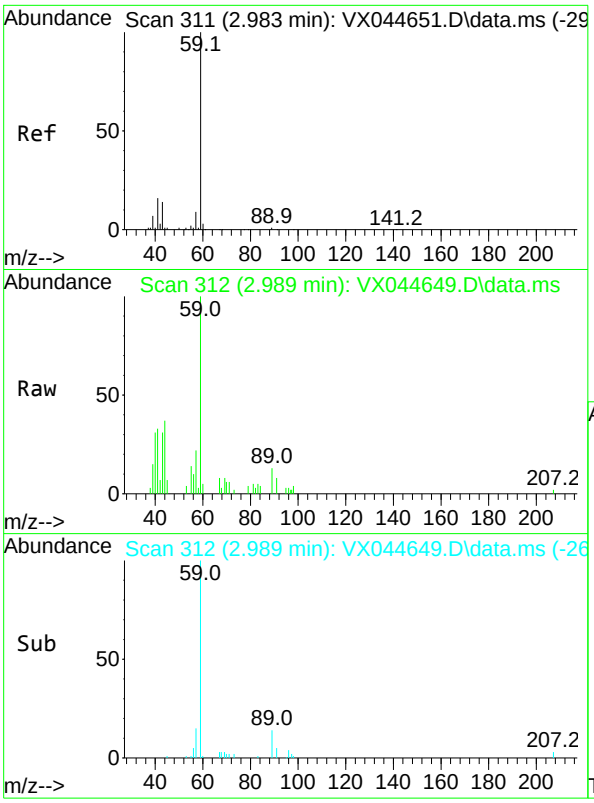




#10
Methyl Iodide
Concen: 5.016 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:142 Resp: 15920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.8 | 35.0 | 52.4 |
| 141 | 13.9 | 11.7 | 17.5 |

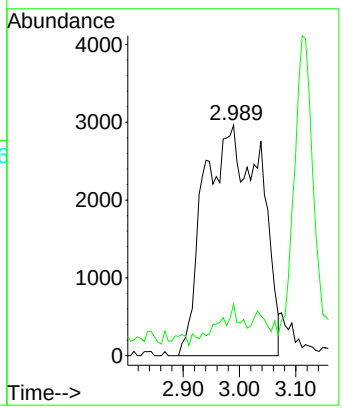





#11
Tert butyl alcohol
Concen: 31.009 ug/l m
RT: 2.989 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 59 Resp: 2054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 5.9 | 3.9 | 5.9# |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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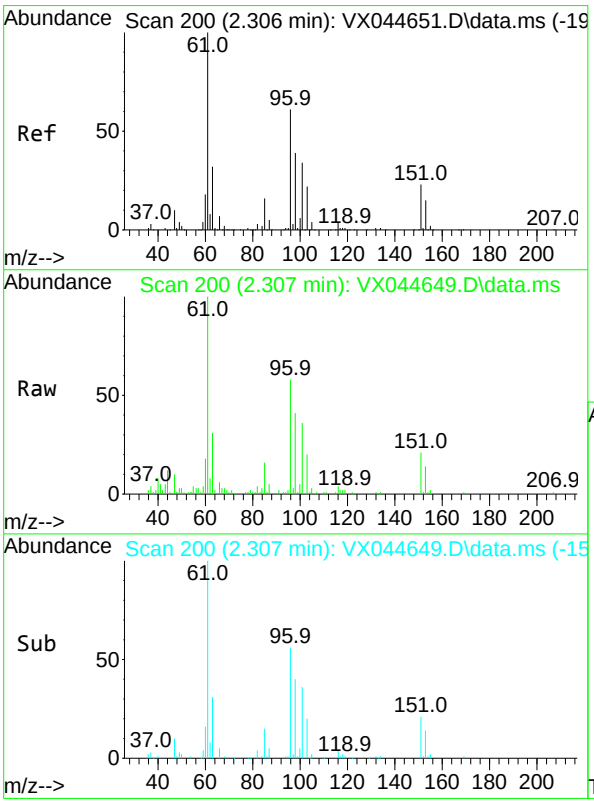
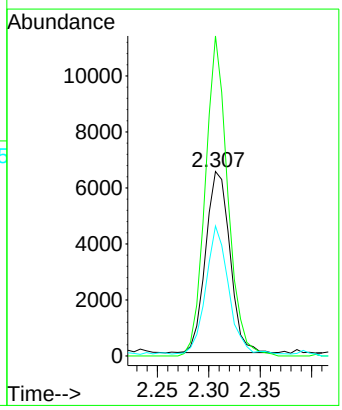
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

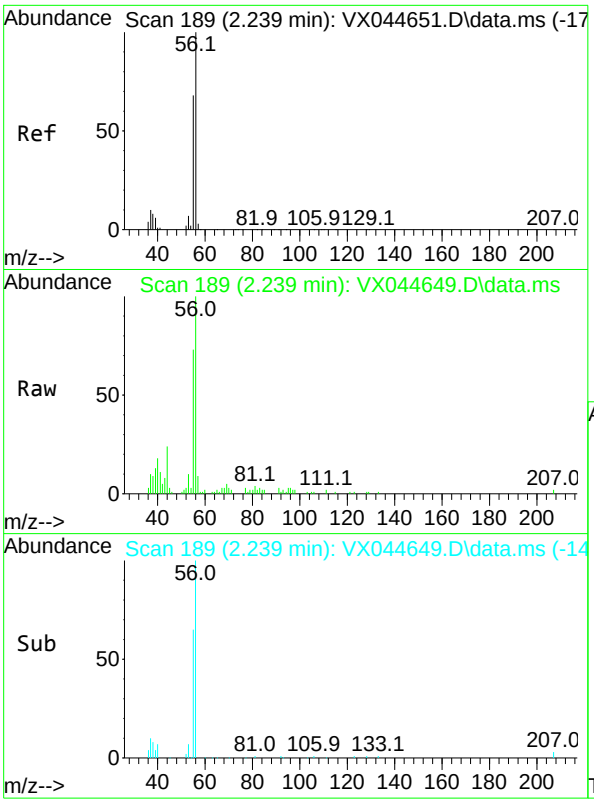



#12
1,1-Dichloroethene
Concen: 4.667 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 96 Resp: 10636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 176.8 | 131.1 | 196.7 |
| 98 | 70.5 | 51.2 | 76.8 |

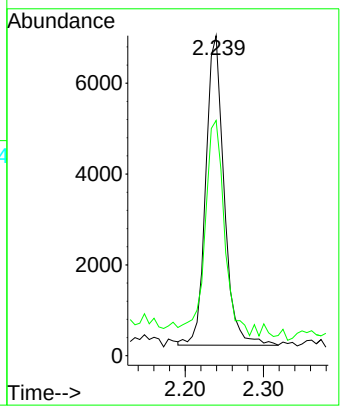





#13
Acrolein
Concen: 35.838 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 56 Resp: 1104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.7 | 55.1 | 82.7 |




**Instrument :**
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VSTDICC005

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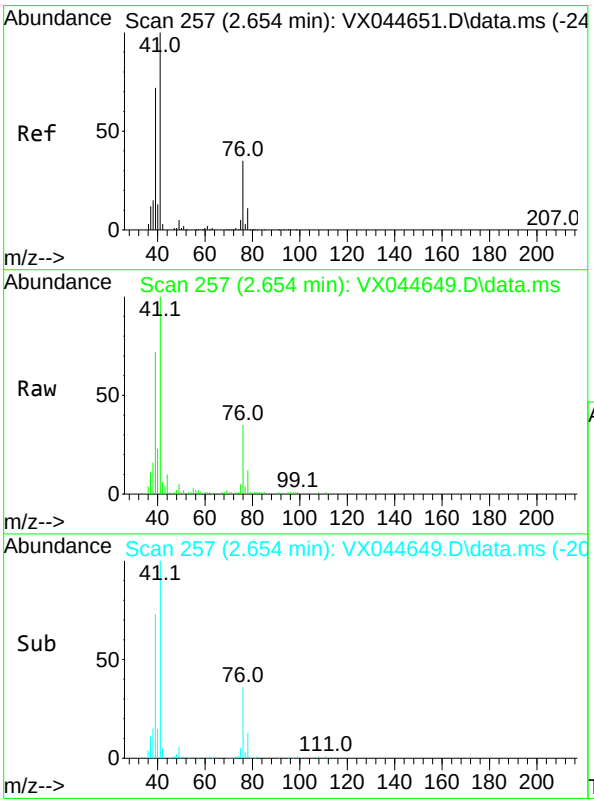
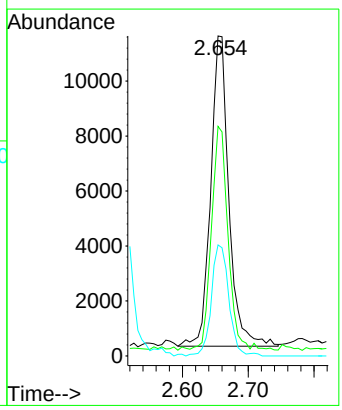
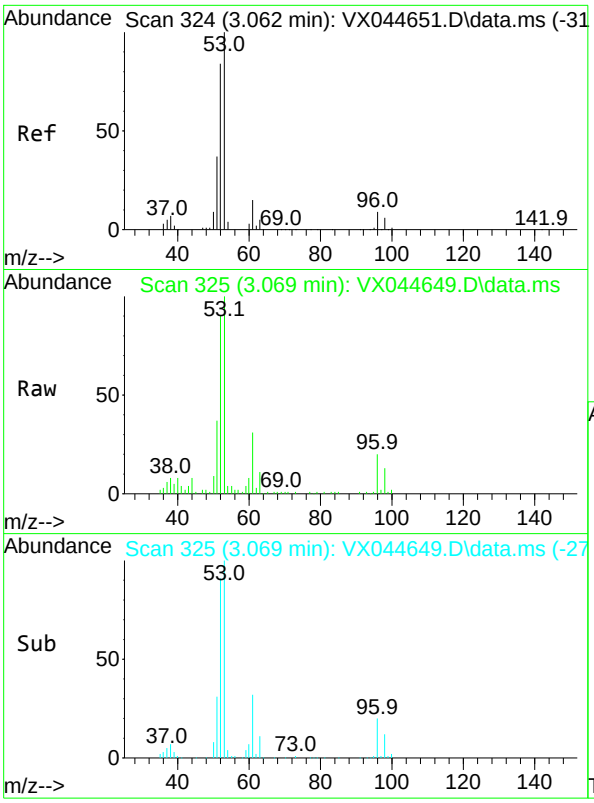



#14
Allyl chloride
Concen: 4.901 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 41 Resp: 21748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 65.4 | 54.9 | 82.3 |
| 76 | 34.4 | 28.4 | 42.6 |

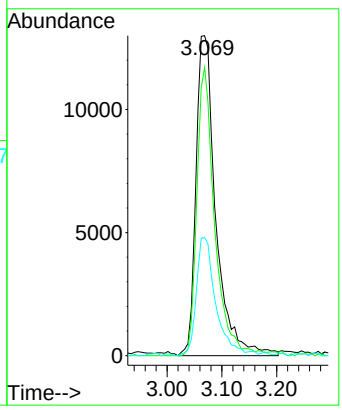





#15
Acrylonitrile
Concen: 25.521 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 53 Resp: 3278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.5 | 66.0 | 99.0 |
| 51 | 35.8 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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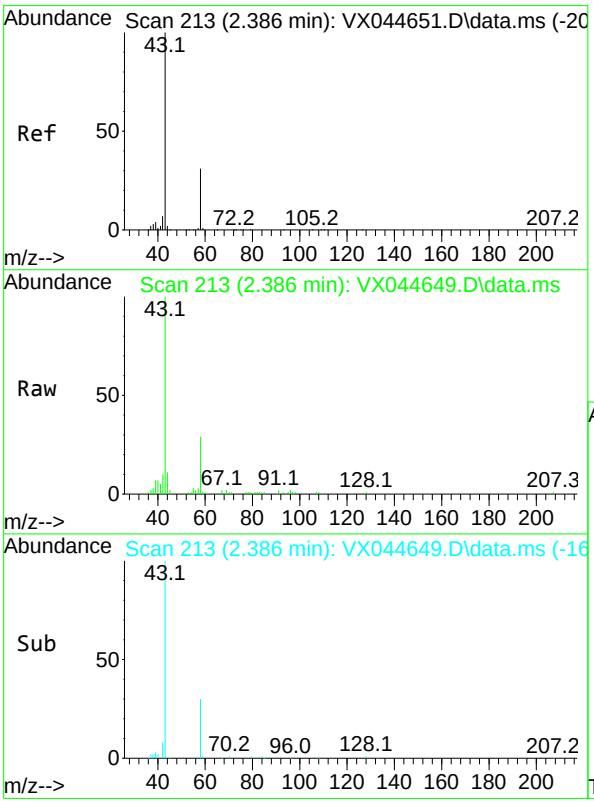
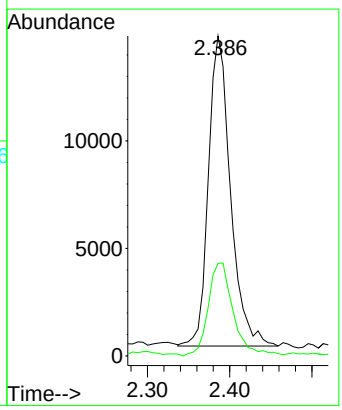
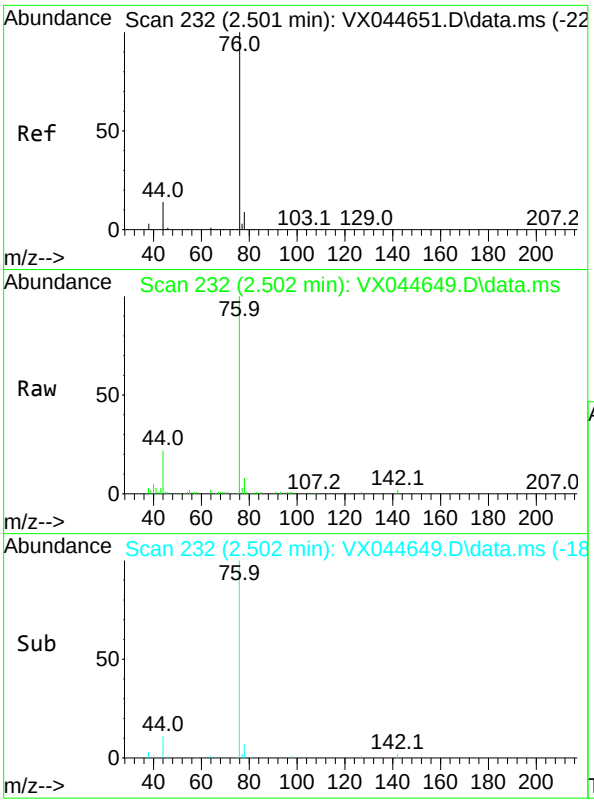



#16
Acetone
Concen: 23.167 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 26927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.2 | 24.6 | 37.0 |

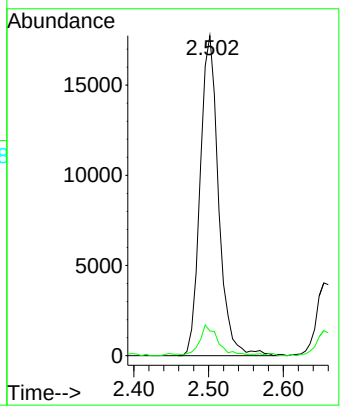





#17
Carbon Disulfide
Concen: 4.869 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 76 Resp: 3027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 7.7 | 7.1 | 10.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

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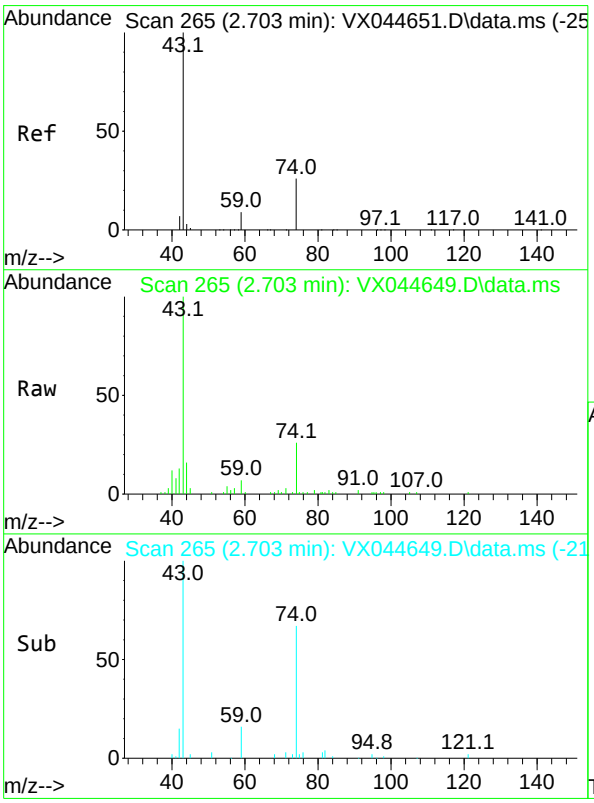
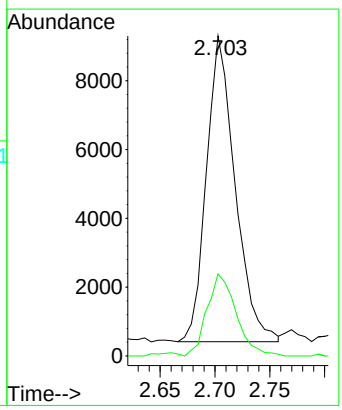
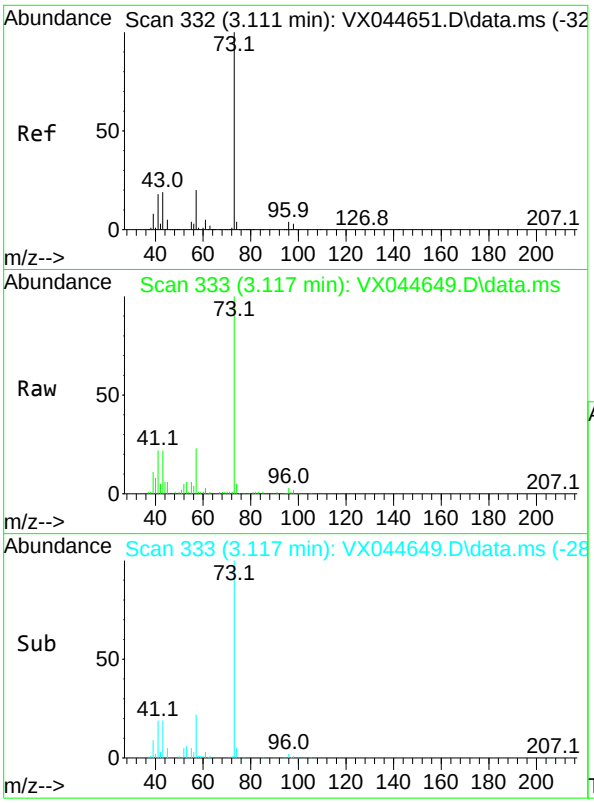



#18
Methyl Acetate
Concen: 4.516 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 16192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.3 | 19.8 | 29.8 |

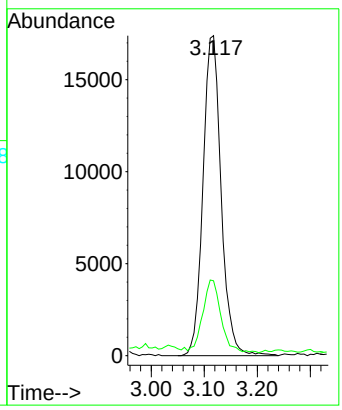





#19
Methyl tert-butyl Ether
Concen: 4.998 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 73 Resp: 4125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.6 | 17.4 | 26.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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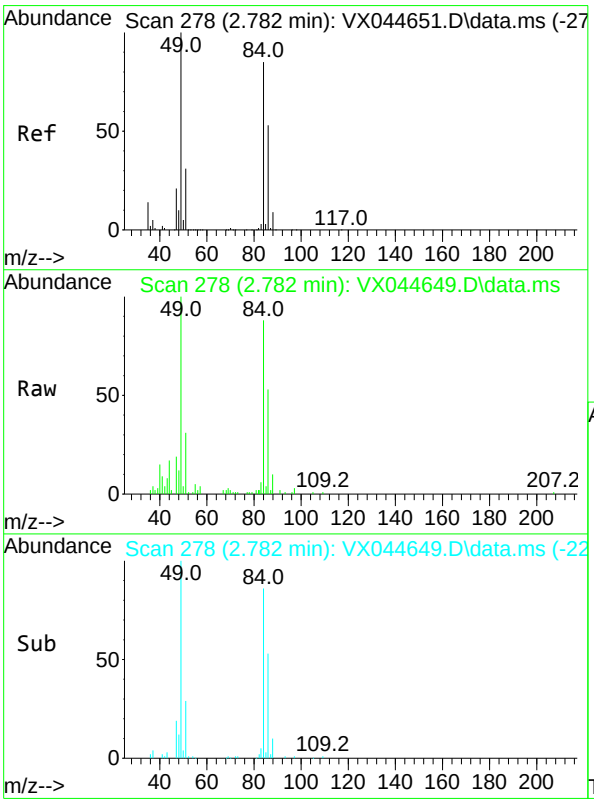
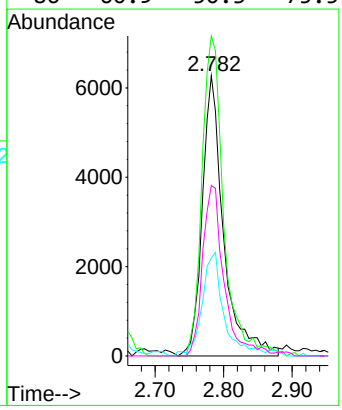
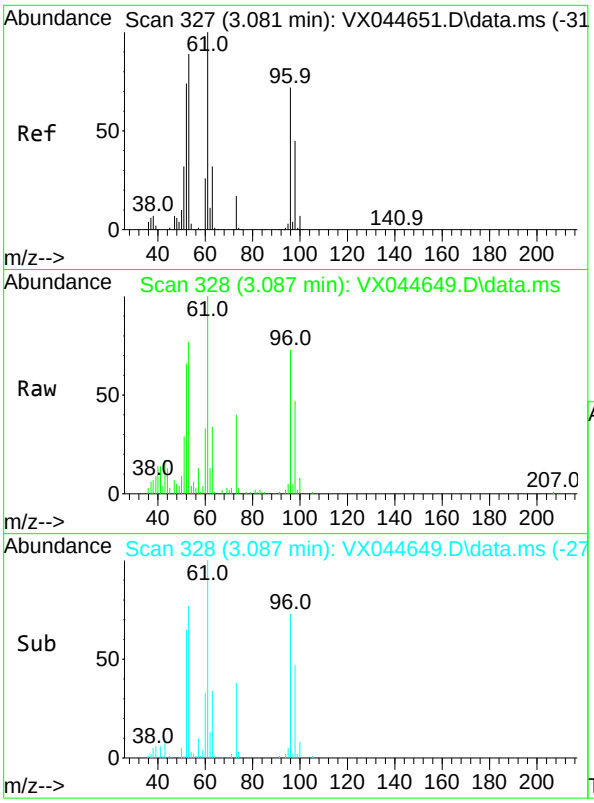



#20
Methylene Chloride
Concen: 5.028 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 84 Resp: 13610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 114.2 | 94.2 | 141.4 |
| 51 | 33.5 | 28.8 | 43.2 |
| 86 | 60.9 | 50.3 | 75.5 |

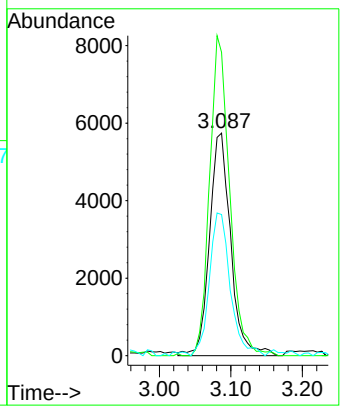





#21
trans-1,2-Dichloroethene
Concen: 4.965 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 96 Resp: 1181

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.3 | 111.0 | 166.6 |
| 98 | 62.3 | 50.2 | 75.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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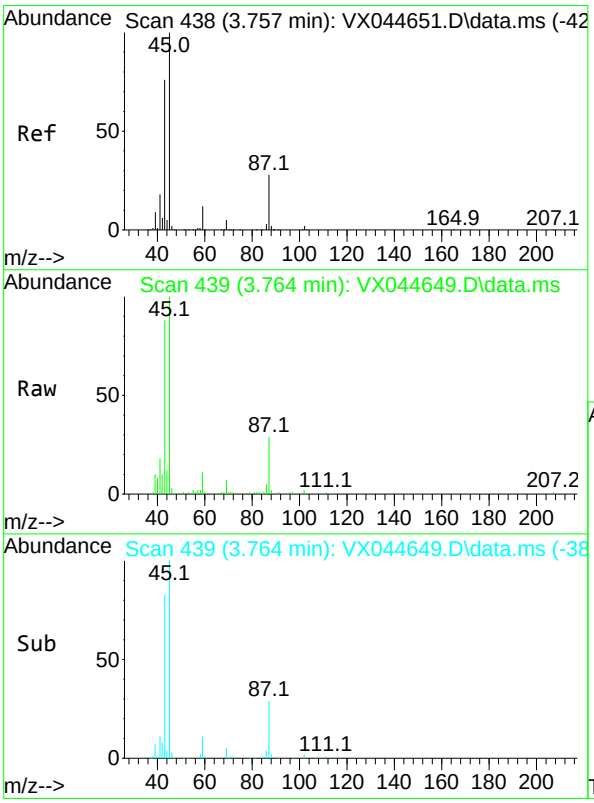
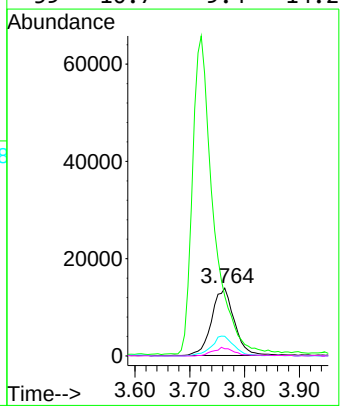
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

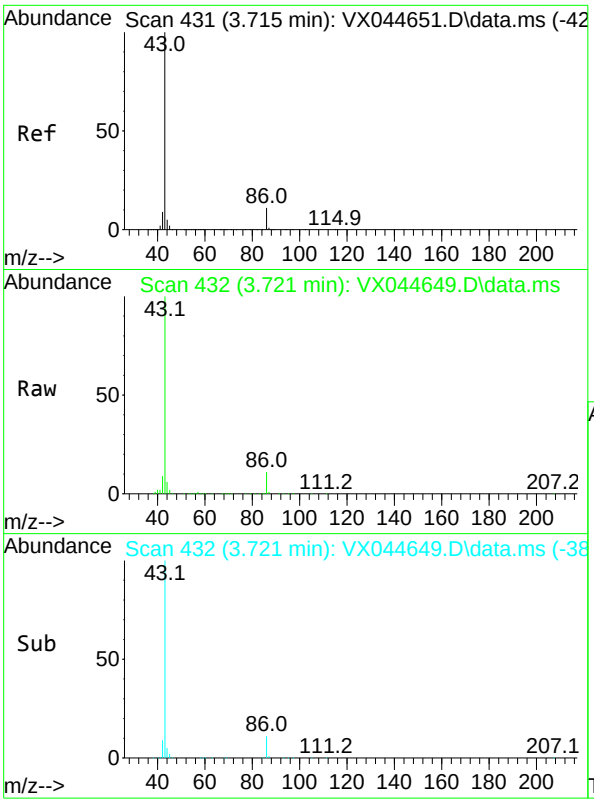



#22
Diisopropyl ether
Concen: 5.149 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 45 Resp: 39716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 85.7 | 61.0 | 91.6 |
| 87 | 29.1 | 22.7 | 34.1 |
| 59 | 10.7 | 9.4 | 14.2 |

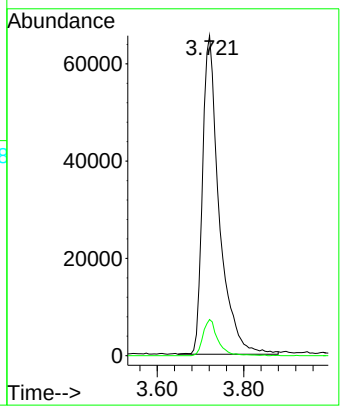





#23
Vinyl Acetate
Concen: 26.022 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 17566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 8.9 | 13.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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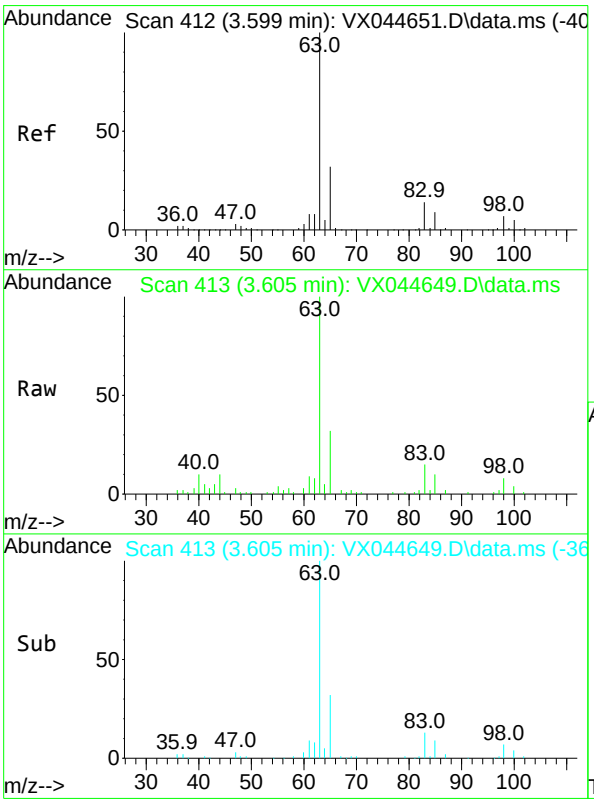
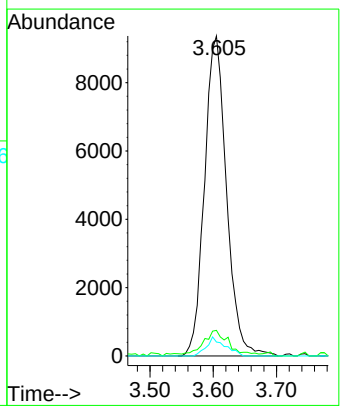
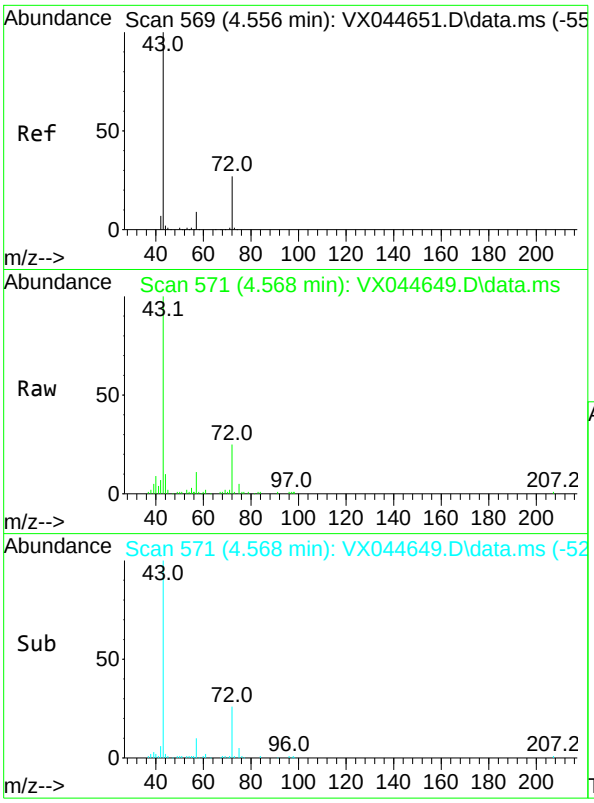



#24
1,1-Dichloroethane
Concen: 4.953 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 63 Resp: 22655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.0 | 3.6 | 10.9 |
| 100 | 4.4 | 2.5 | 7.5 |






#25
2-Butanone
Concen: 25.004 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 4321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.0 | 21.7 | 32.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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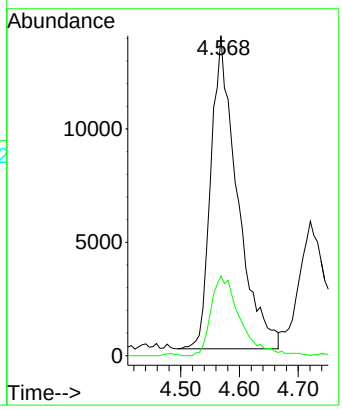
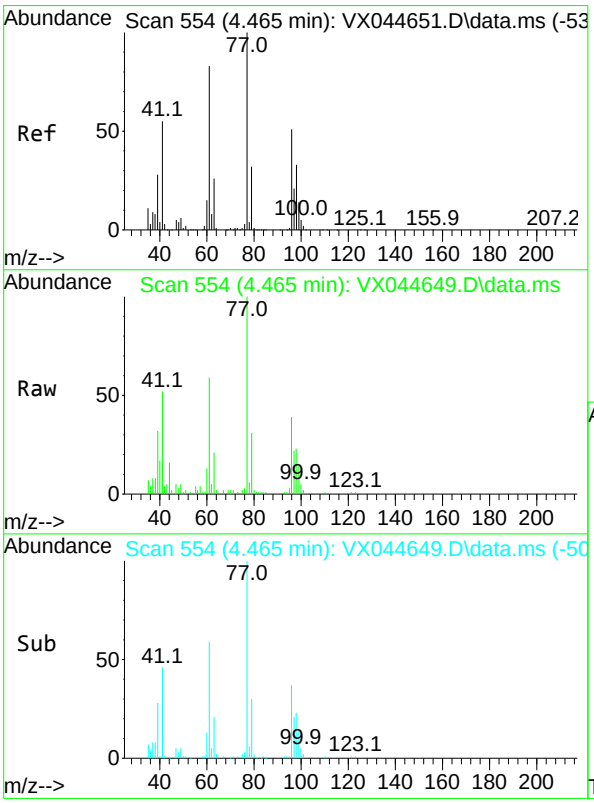
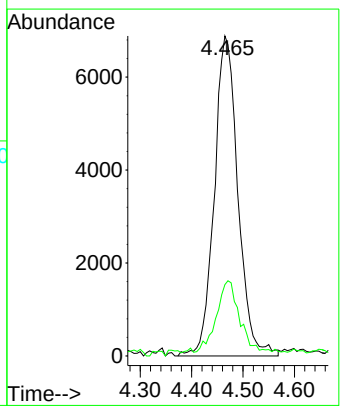


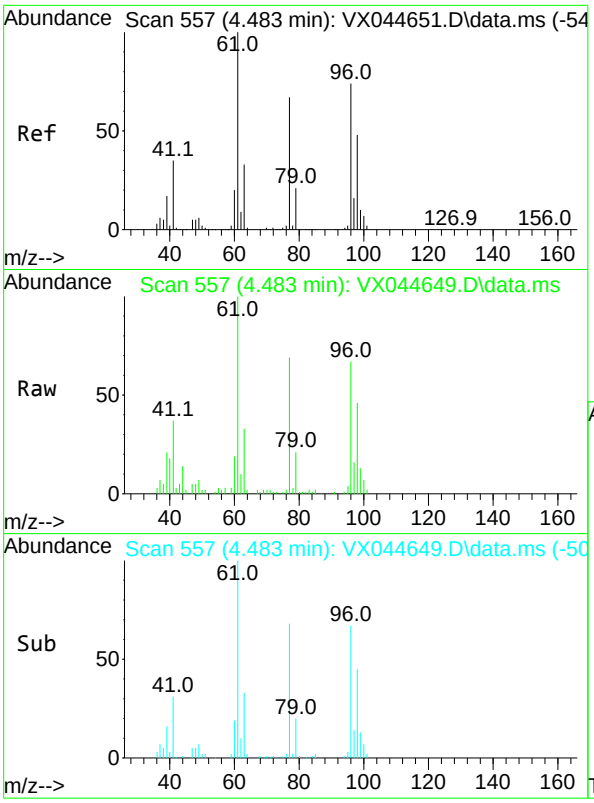




#26
2,2-Dichloropropane
Concen: 4.957 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 77 Resp: 21972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.5 | 10.9 | 32.6 |

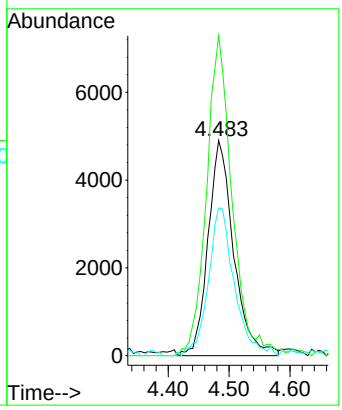





#27
cis-1,2-Dichloroethene
Concen: 4.777 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 96 Resp: 1429

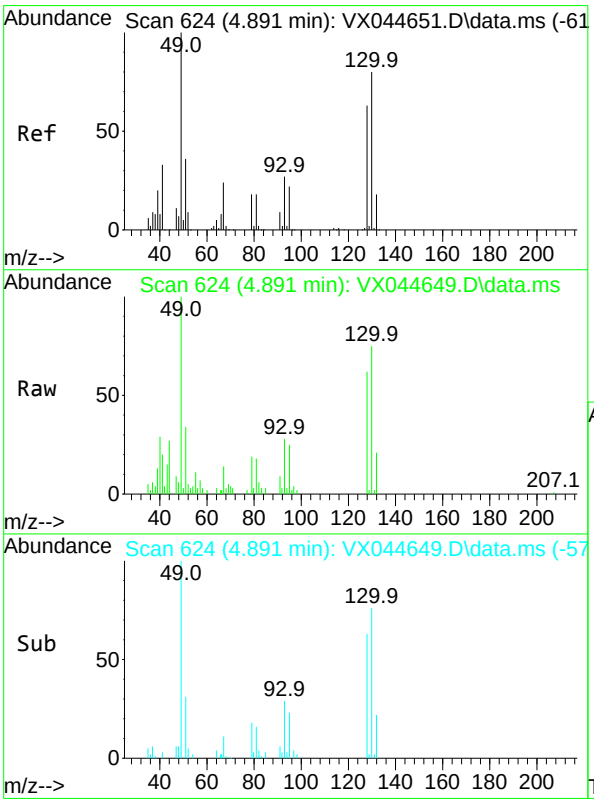
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.1 | 0.0 | 296.0 |
| 98 | 70.1 | 0.0 | 130.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

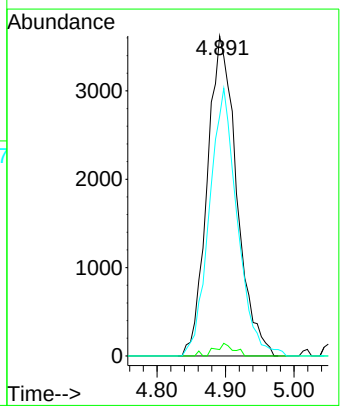
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

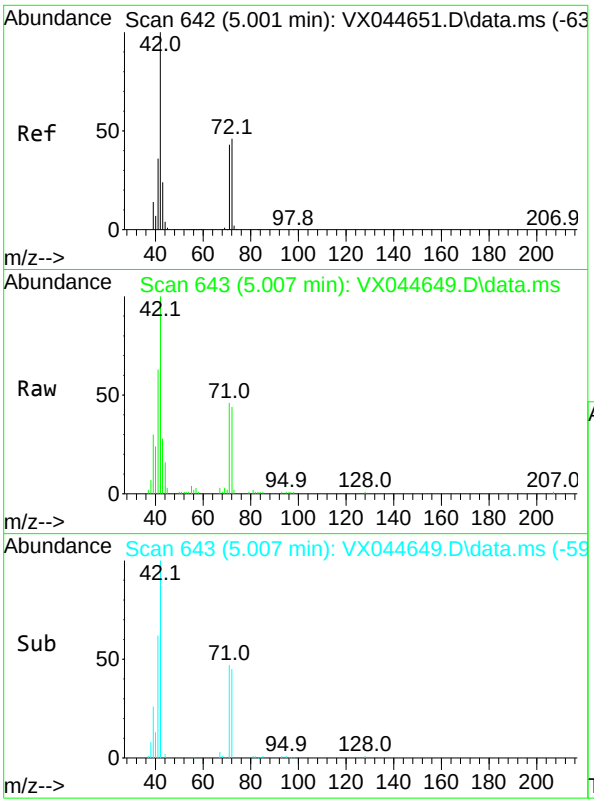



#28
Bromochloromethane
Concen: 5.046 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 49 Resp: 10785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.4 | 0.0 | 4.4 |
| 130 | 79.7 | 63.4 | 95.2 |

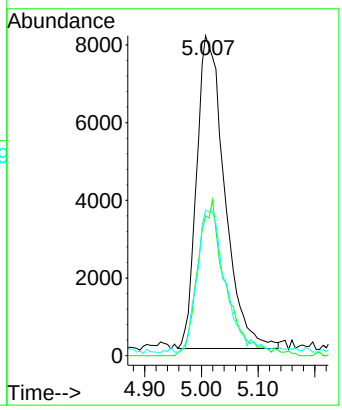





#29
Tetrahydrofuran
Concen: 24.762 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 42 Resp: 2760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.8 | 38.2 | 57.4 |
| 71 | 46.1 | 35.3 | 52.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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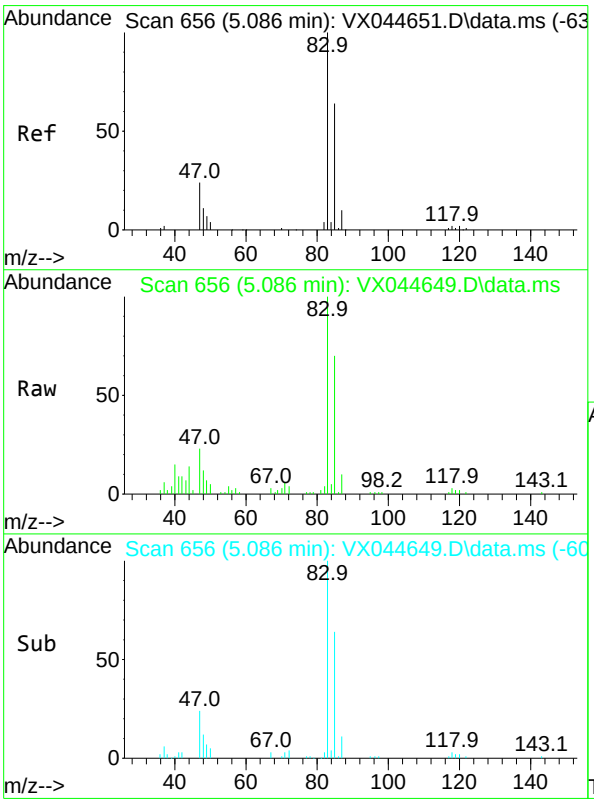
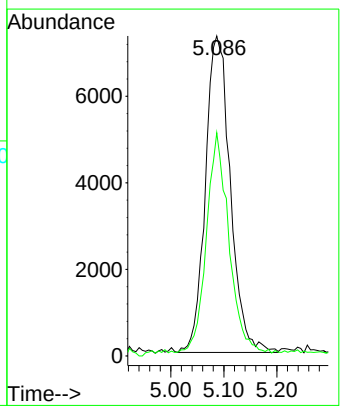
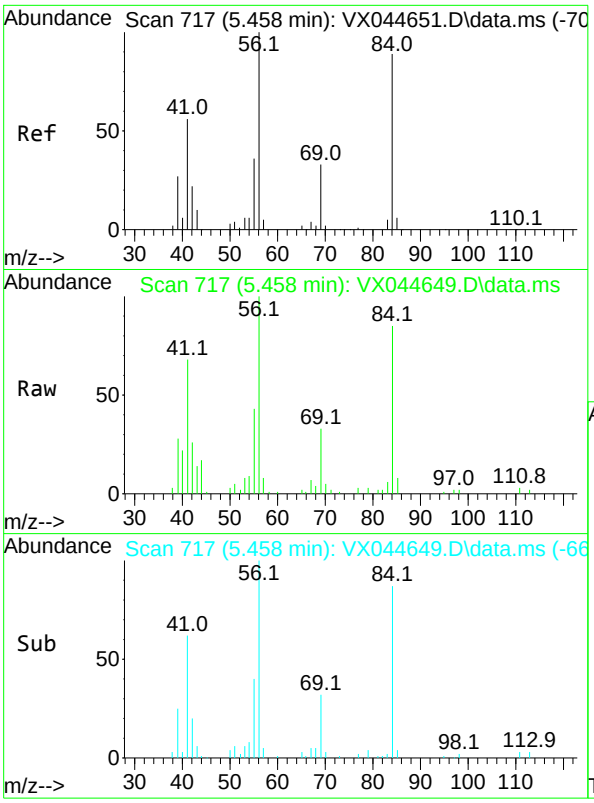



#30
Chloroform
Concen: 5.169 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 83 Resp: 23860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 69.4 | 51.2 | 76.8 |






#31
Cyclohexane
Concen: 4.934 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 56 Resp: 1825

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.5 | 26.8 | 40.2 |
| 84 | 83.4 | 71.0 | 106.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

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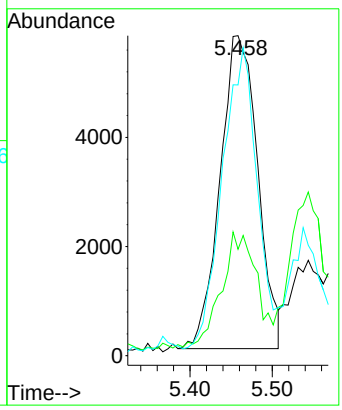
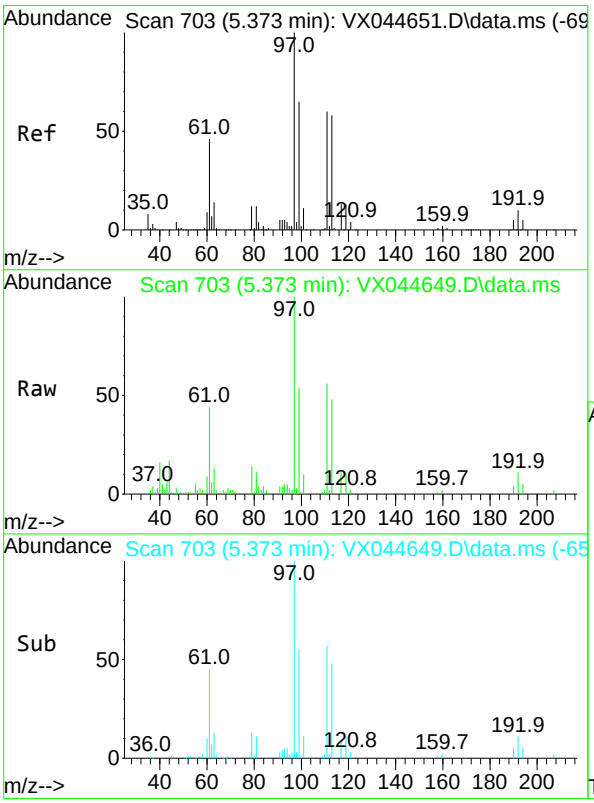
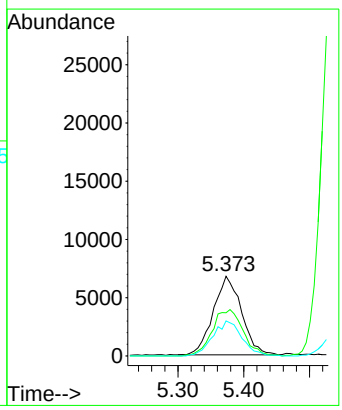


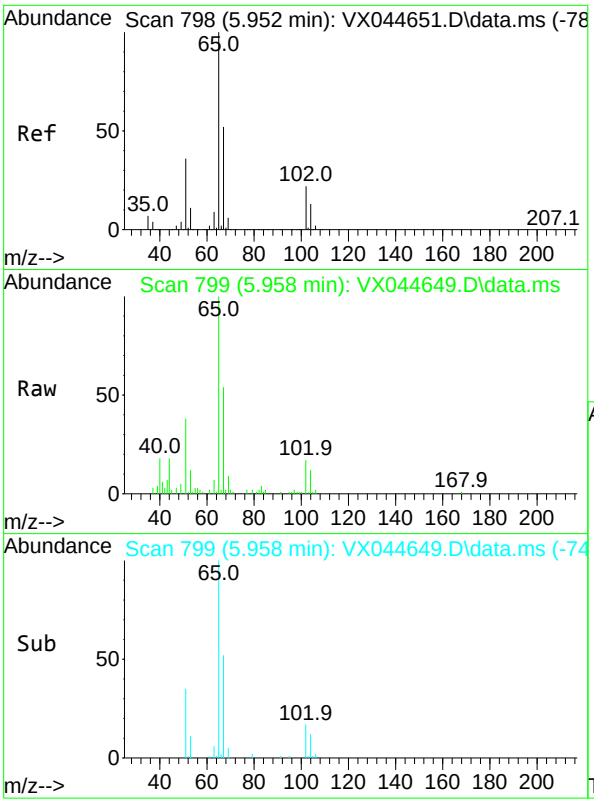




#32
1,1,1-Trichloroethane
Concen: 4.753 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 97 Resp: 20169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.6 | 77.4 |
| 61 | 45.9 | 35.6 | 53.4 |

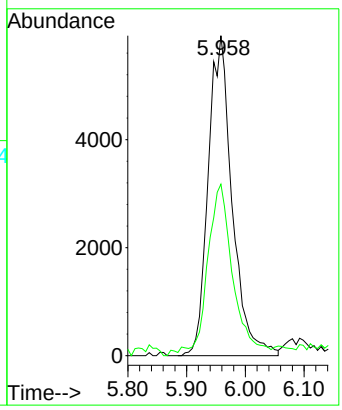





#33
1,2-Dichloroethane-d4
Concen: 5.717 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 65 Resp: 1679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 56.9 | 0.0 | 103.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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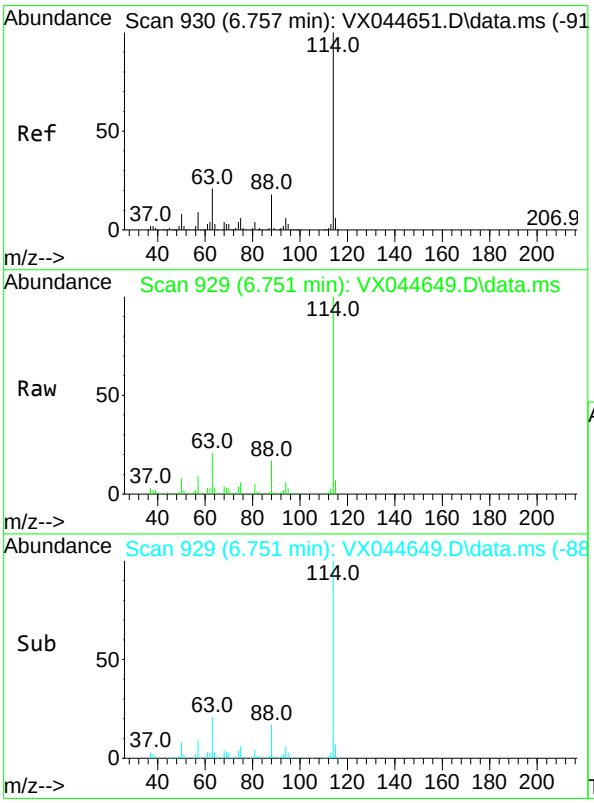
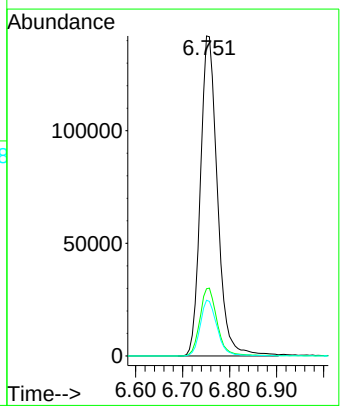
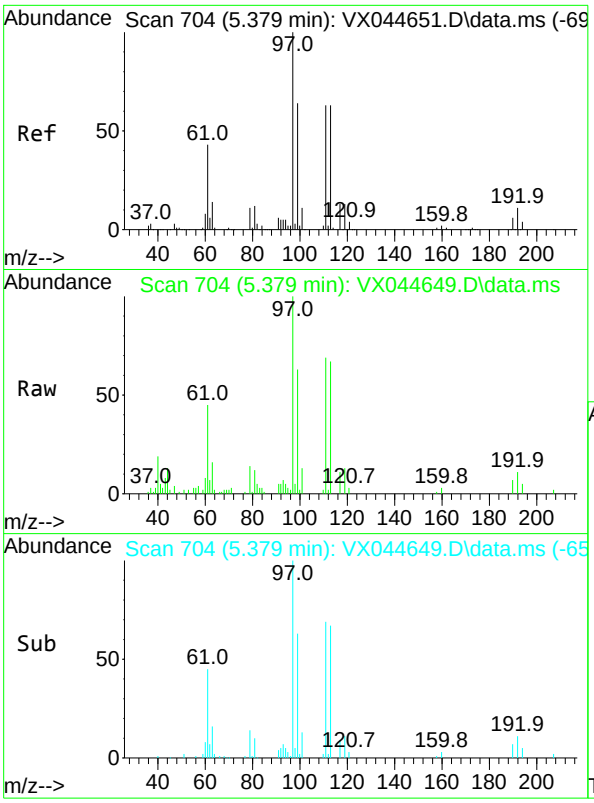



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:114 Resp: 357706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 43.0 |
| 88 | 17.4 | 0.0 | 35.4 |

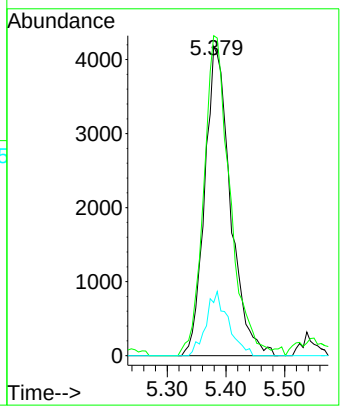





#35
Dibromofluoromethane
Concen: 5.594 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:113 Resp: 1271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 105.1 | 81.6 | 122.4 |
| 192 | 17.9 | 14.4 | 21.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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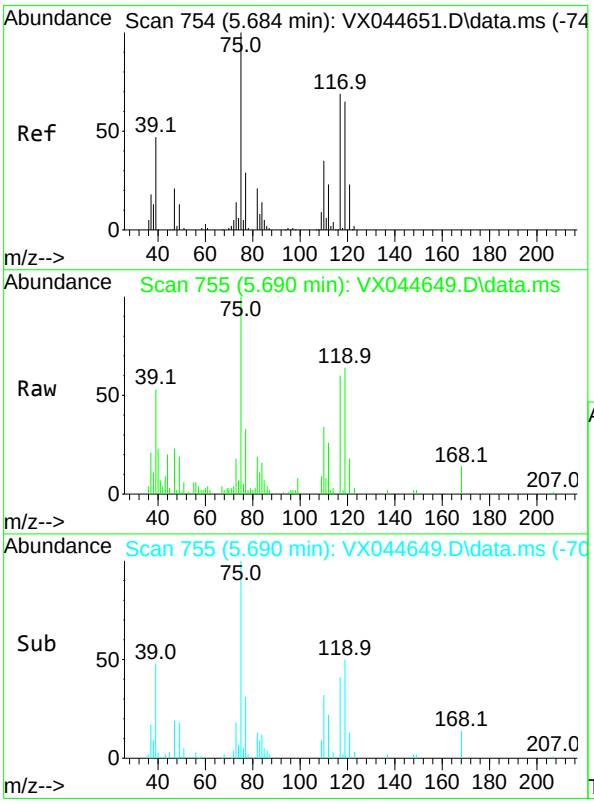
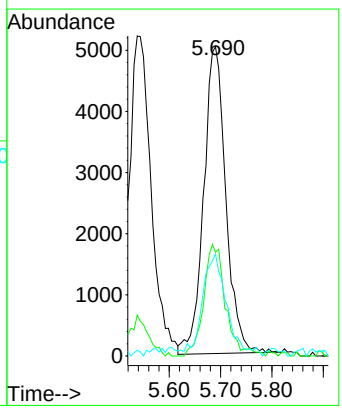
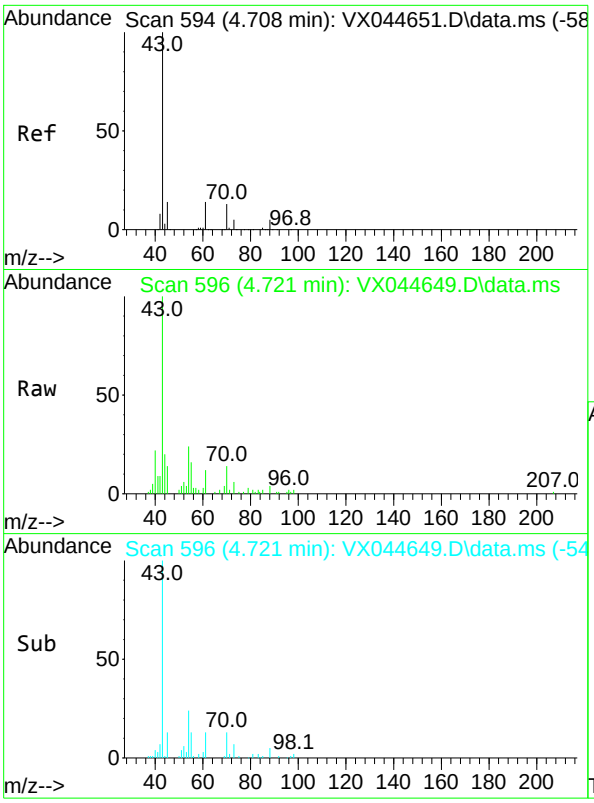



#36
1,1-Dichloropropene
Concen: 4.754 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 15040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.8 | 17.9 | 53.8 |
| 77 | 36.6 | 24.5 | 36.7 |

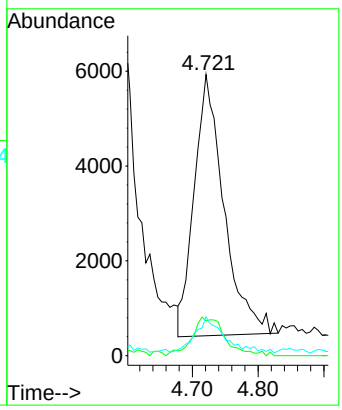





#37
Ethyl Acetate
Concen: 5.150 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 1734

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.3 | 10.9 | 16.3 |
| 70 | 14.1 | 10.1 | 15.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

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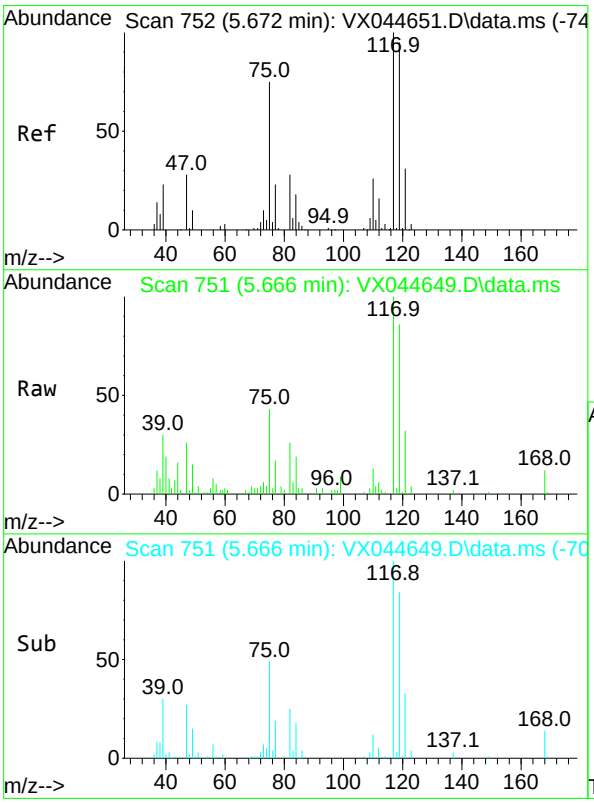
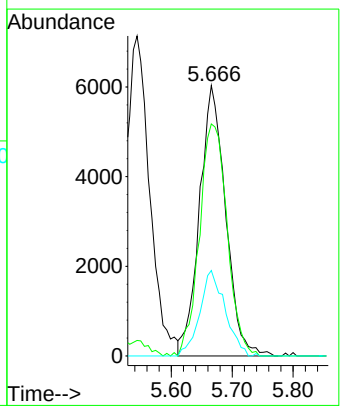
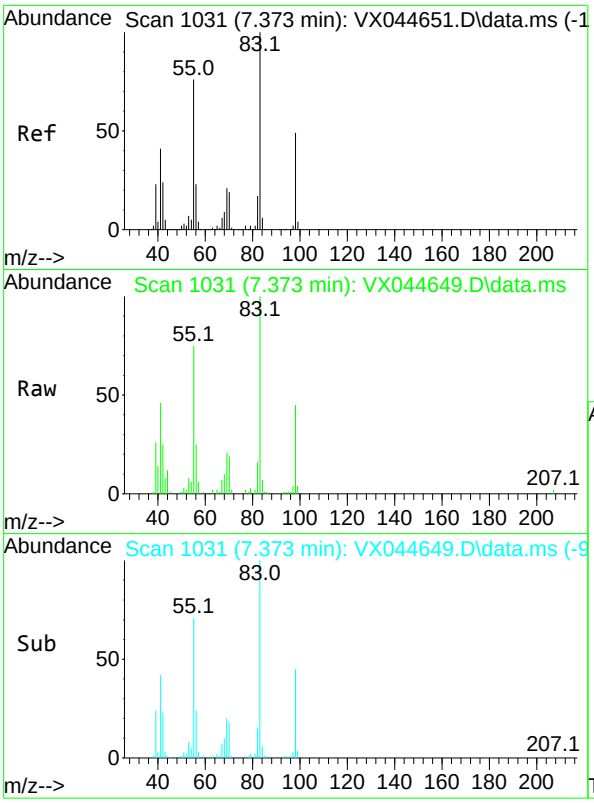



#38
Carbon Tetrachloride
Concen: 5.054 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:117 Resp: 17983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 85.8 | 76.0 | 114.0 |
| 121 | 31.6 | 24.6 | 36.8 |






#39
Methylcyclohexane
Concen: 4.727 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 83 Resp: 1984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.0 | 60.5 | 90.7 |
| 98 | 44.2 | 39.0 | 58.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

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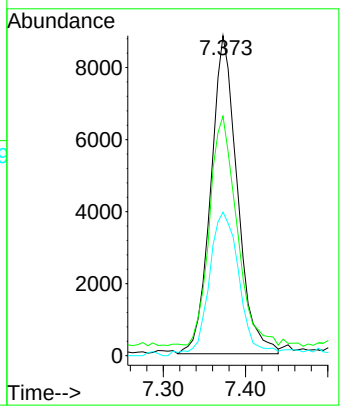
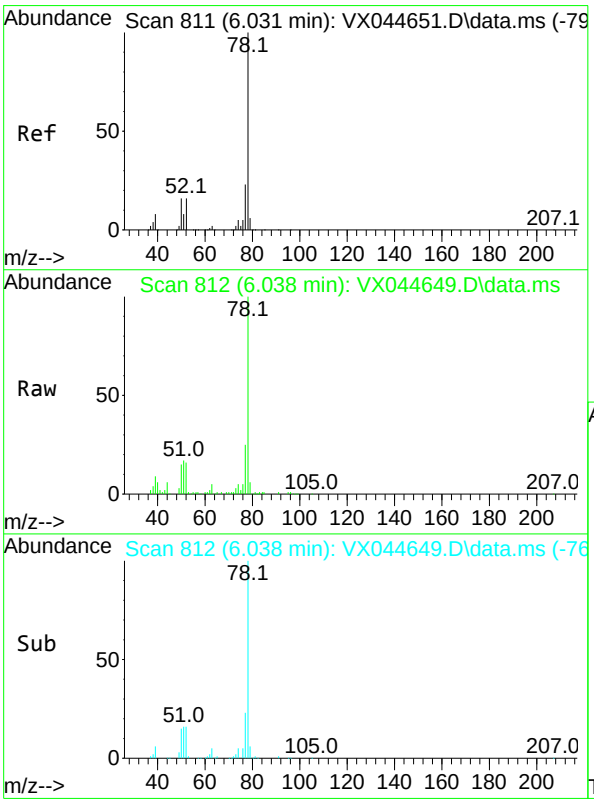
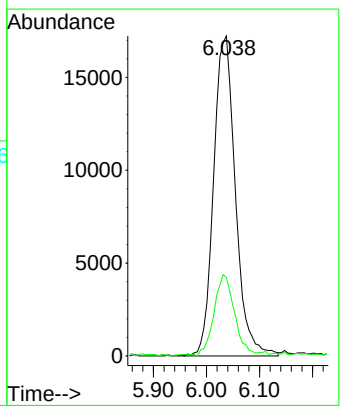


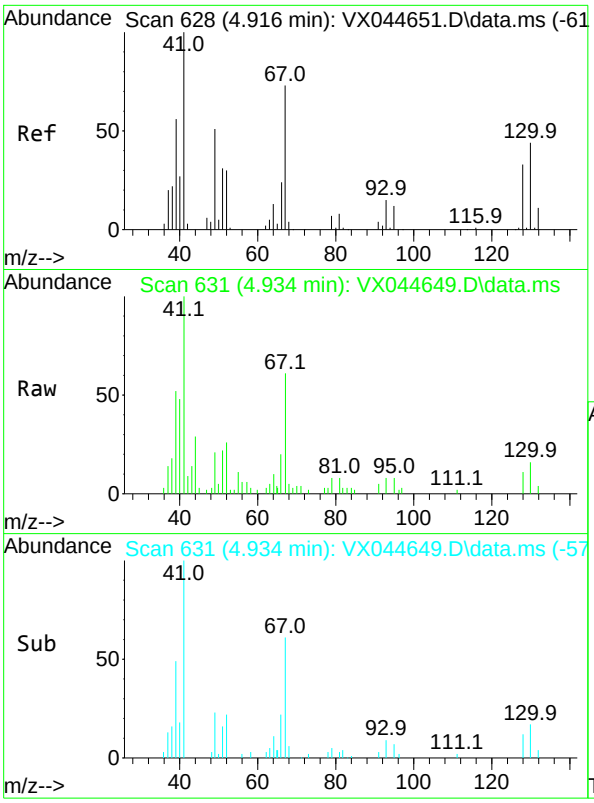




#40
Benzene
Concen: 5.023 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 78 Resp: 49235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.7 | 28.1 |

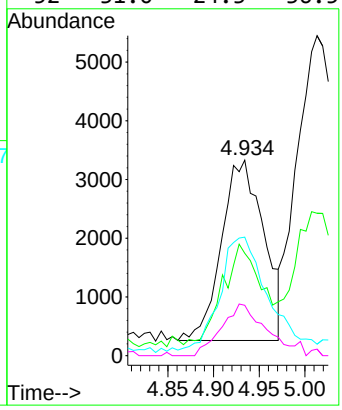





#41
Methacrylonitrile
Concen: 5.124 ug/l
RT: 4.934 min Scan# 6
Delta R.T. 0.018 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 41 Resp: 992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.9 | 44.4 | 66.6 |
| 67 | 74.3 | 60.6 | 90.8 |
| 52 | 31.0 | 24.3 | 36.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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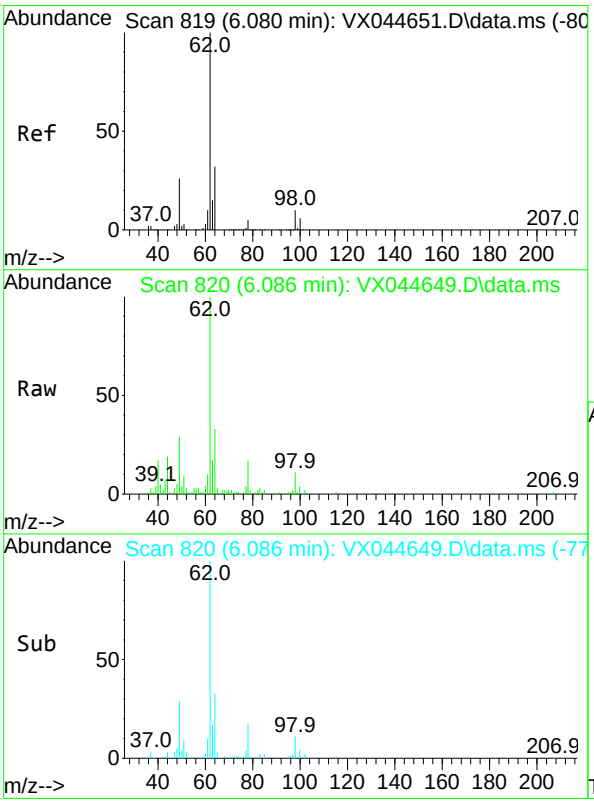
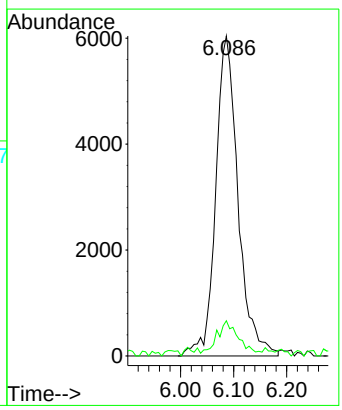
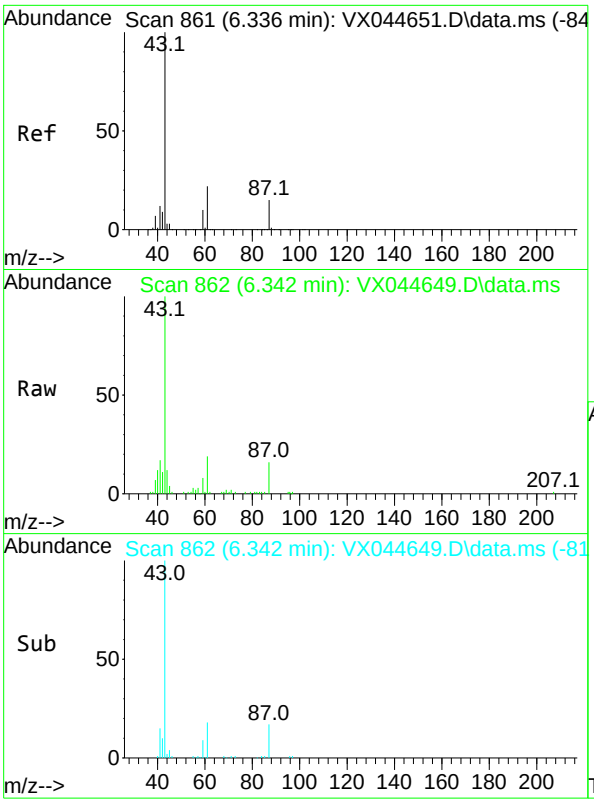



#42
1,2-Dichloroethane
Concen: 4.941 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 62 Resp: 17678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.9 | 0.0 | 19.4 |

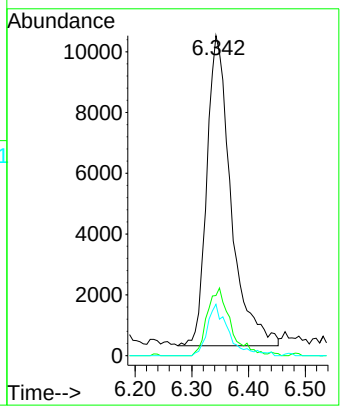





#43
Isopropyl Acetate
Concen: 4.877 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 3022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.0 | 16.6 | 24.8 |
| 87 | 14.7 | 11.0 | 16.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

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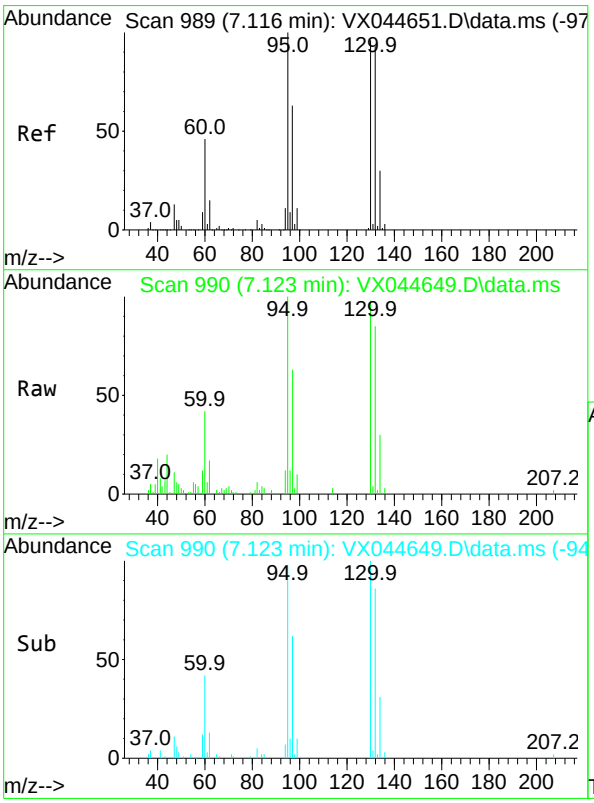
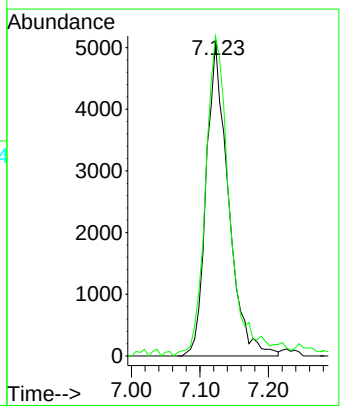
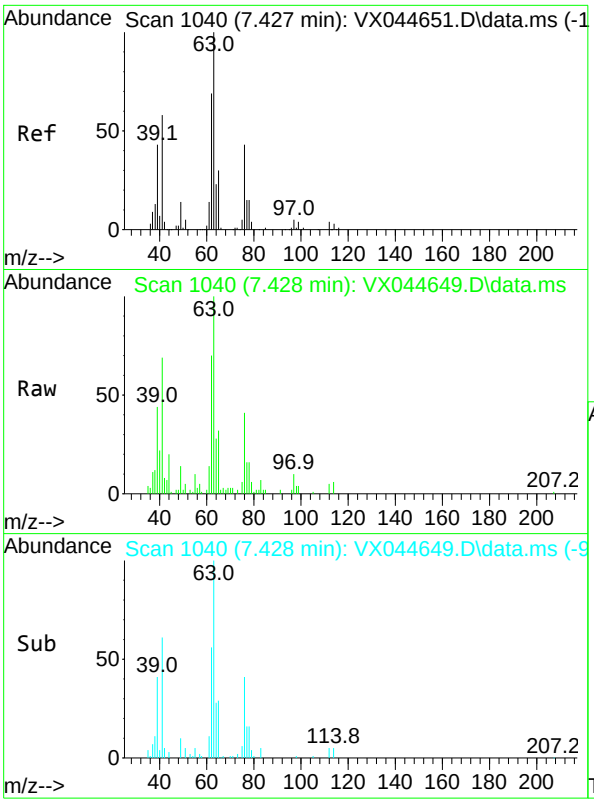



#44
Trichloroethene
Concen: 4.849 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:130 Resp: 11427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.7 | 0.0 | 208.2 |

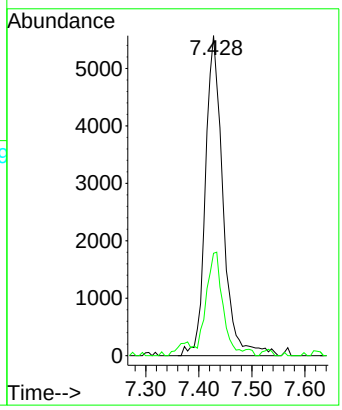





#45
1,2-Dichloropropane
Concen: 5.199 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 63 Resp: 1282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.0 | 24.2 | 36.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

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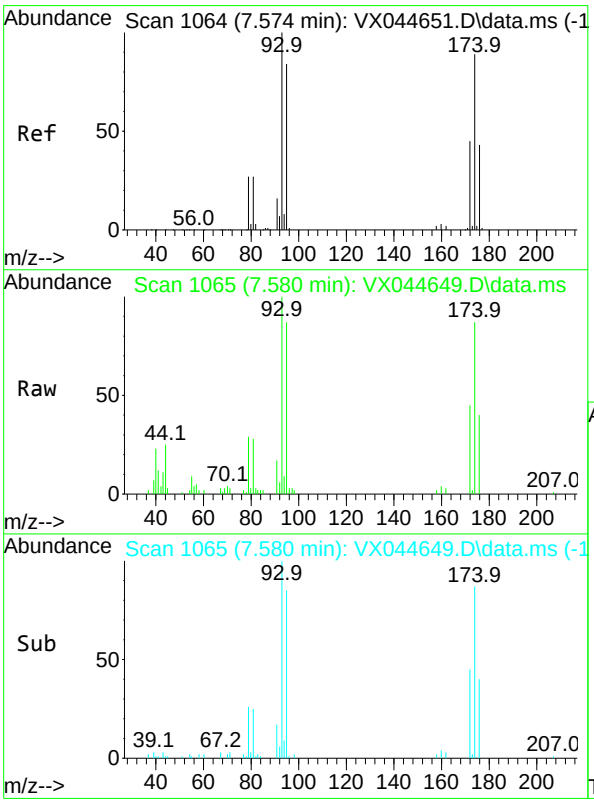
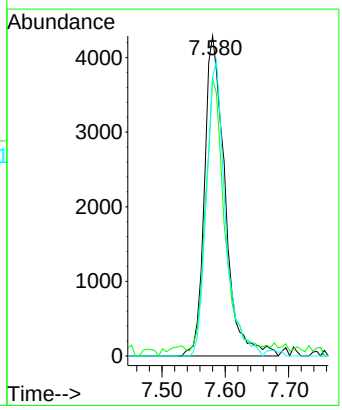
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

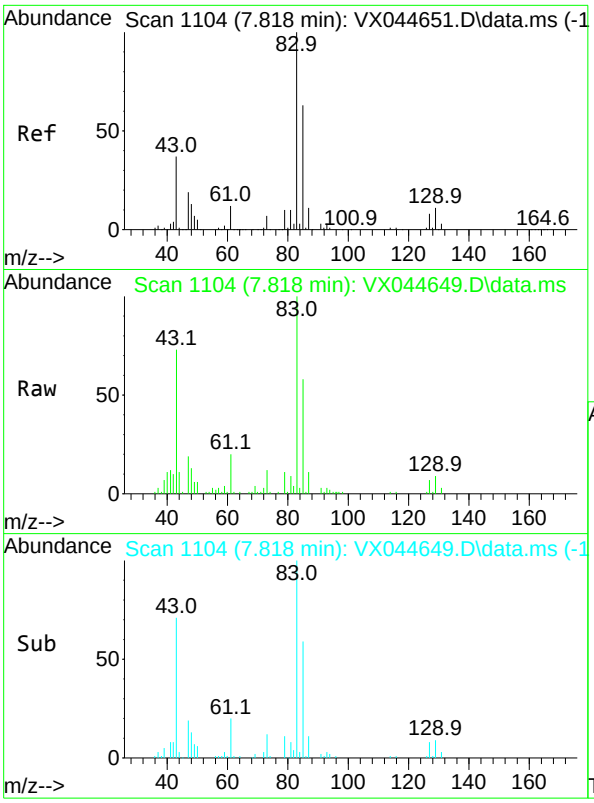



#46
Dibromomethane
Concen: 5.156 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 93 Resp: 9684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 77.5 | 66.4 | 99.6 |
| 174 | 84.6 | 72.0 | 108.0 |

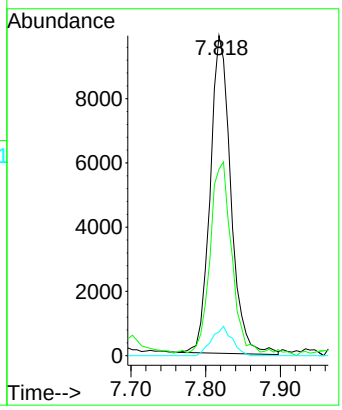





#47
Bromodichloromethane
Concen: 4.923 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 83 Resp: 1896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 57.7 | 50.1 | 75.1 |
| 127 | 7.5 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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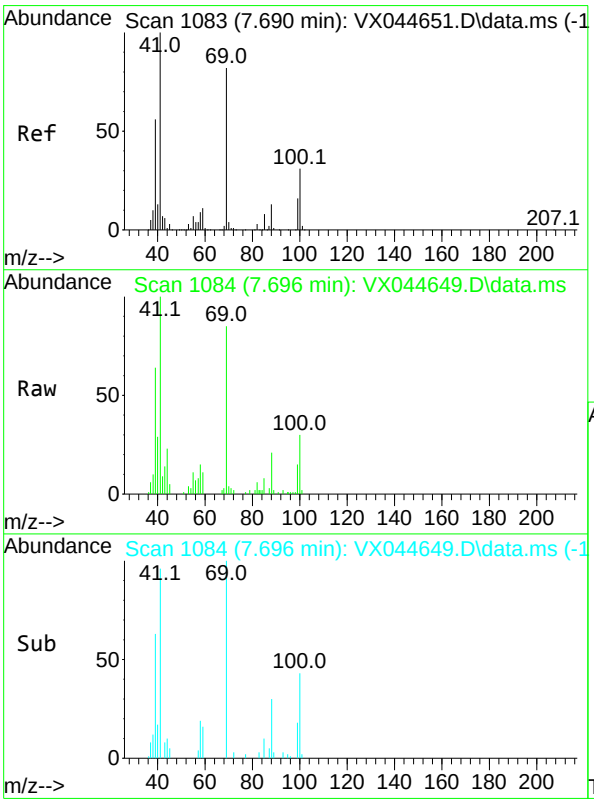
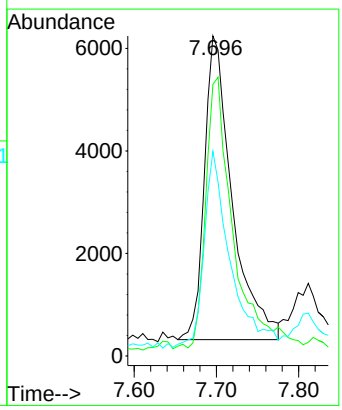
Supervised By :Semsettin Yesilyurt 01/16/2025

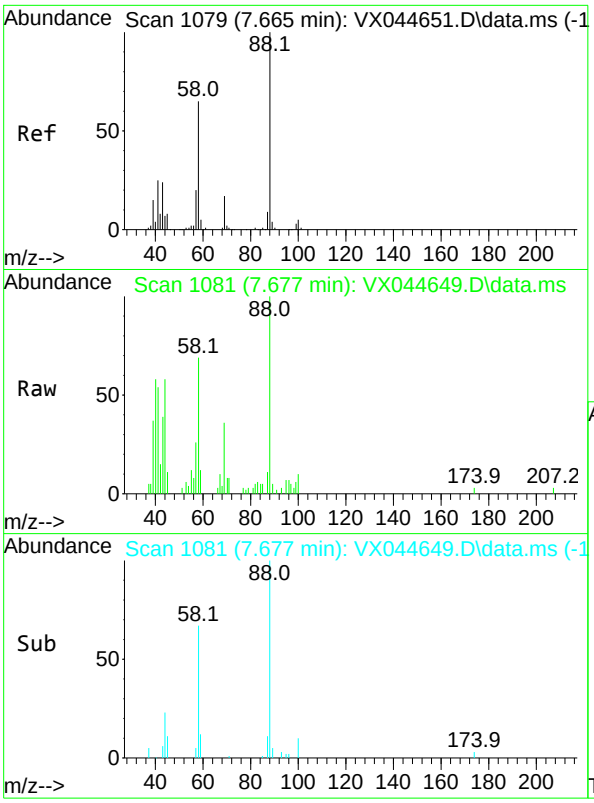



#48
Methyl methacrylate
Concen: 4.844 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 41 Resp: 13933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 86.9 | 66.8 | 100.2 |
| 39 | 60.6 | 47.4 | 71.0 |

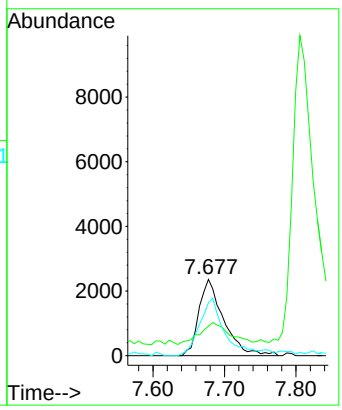





#49
1,4-Dioxane
Concen: 94.542 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 88 Resp: 567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.3 | 27.0 | 40.4 |
| 58 | 74.9 | 55.8 | 83.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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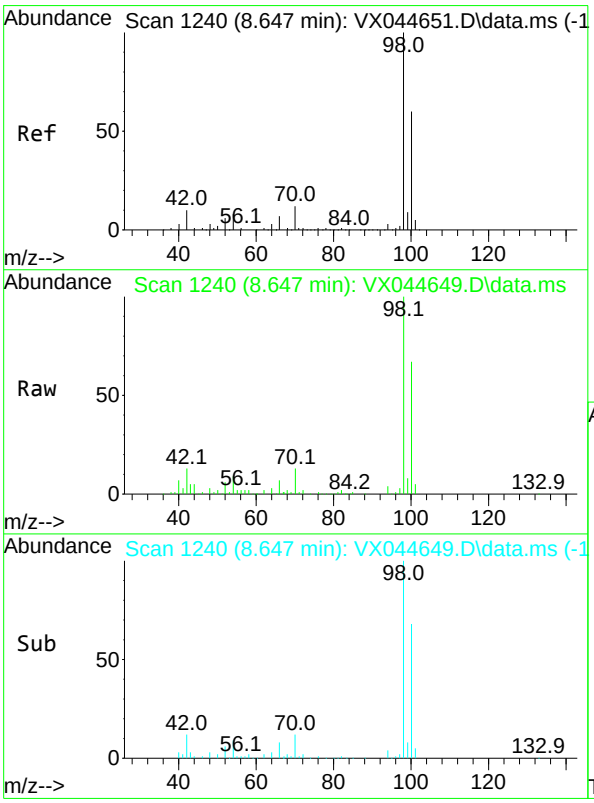
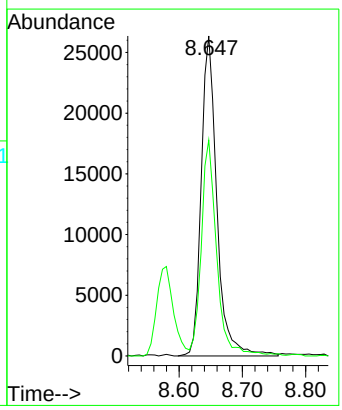
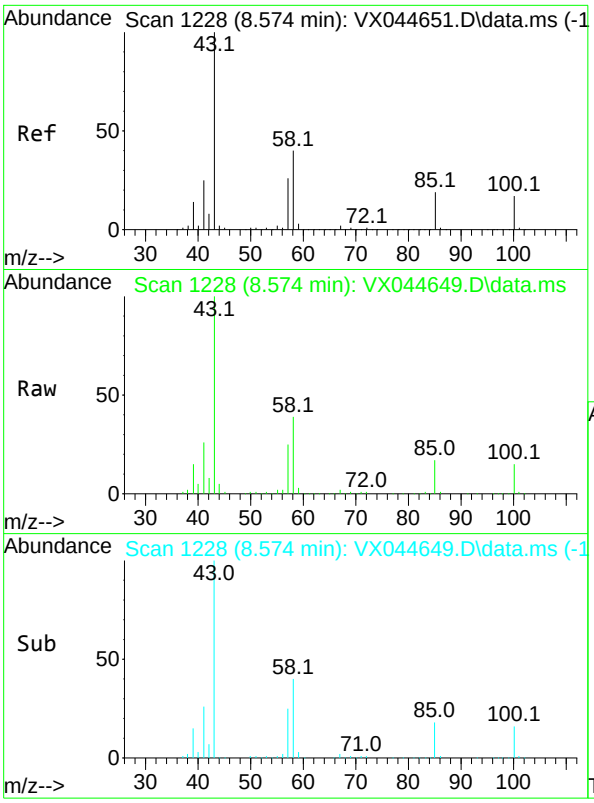



#50
Toluene-d8
Concen: 5.733 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 98 Resp: 45425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 53.2 | 79.8 |

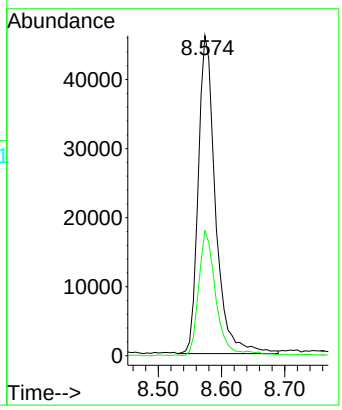





#51
4-Methyl-2-Pentanone
Concen: 25.551 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 8750

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.4 | 31.9 | 47.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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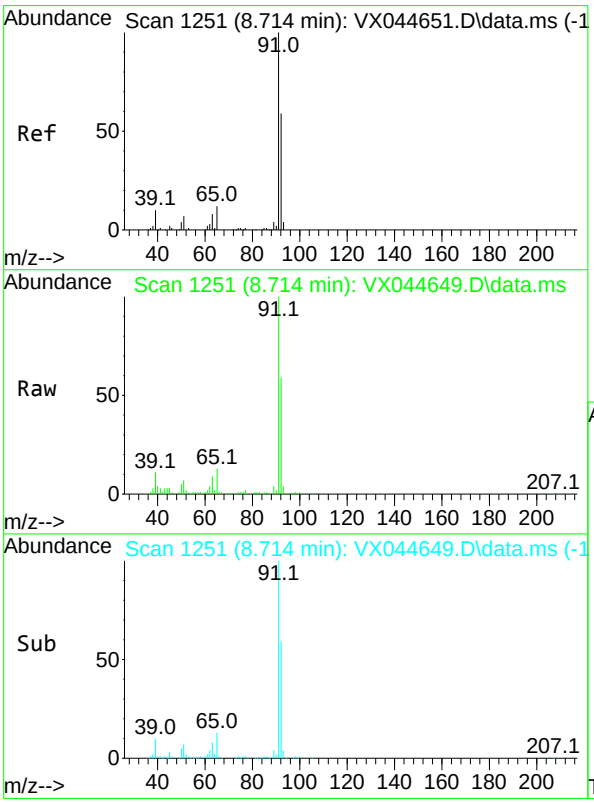
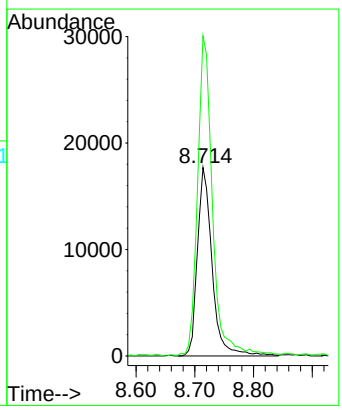
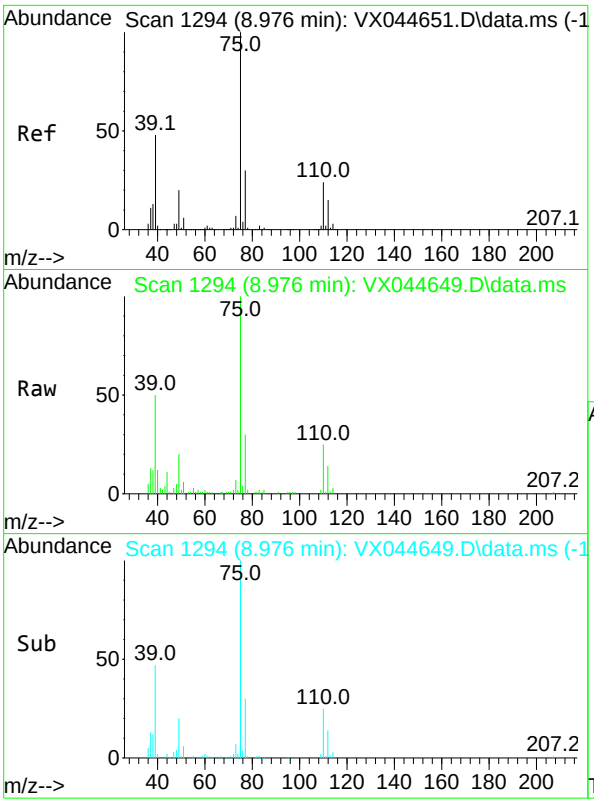



#52
Toluene
Concen: 5.149 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 92 Resp: 30892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.3 | 135.7 | 203.5 |

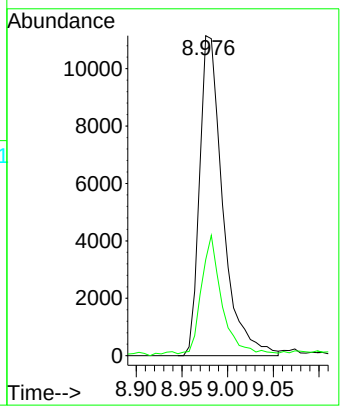





#53
t-1,3-Dichloropropene
Concen: 4.954 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 1971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.4 | 24.4 | 36.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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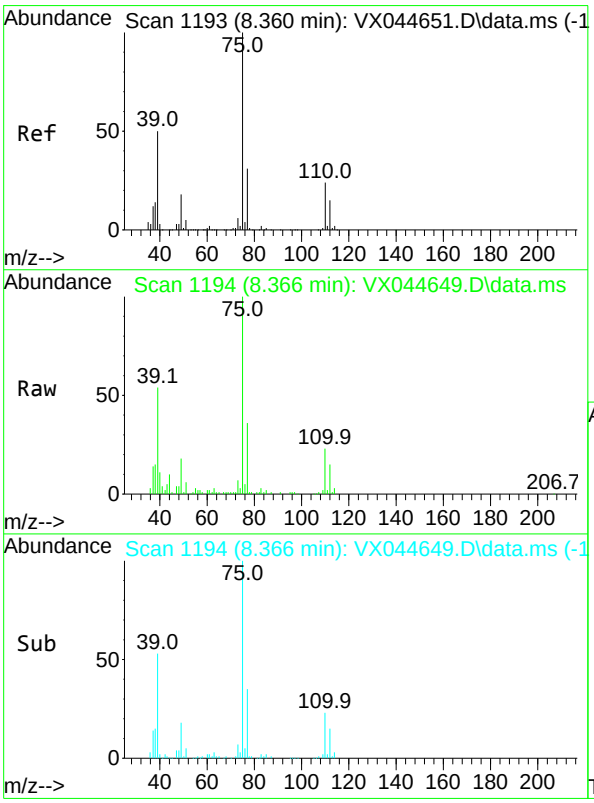
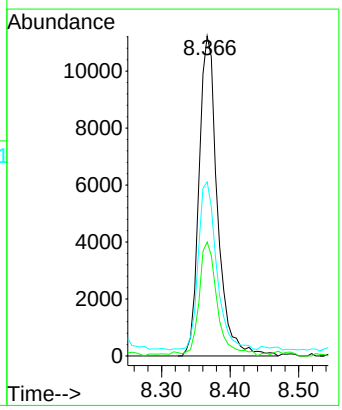
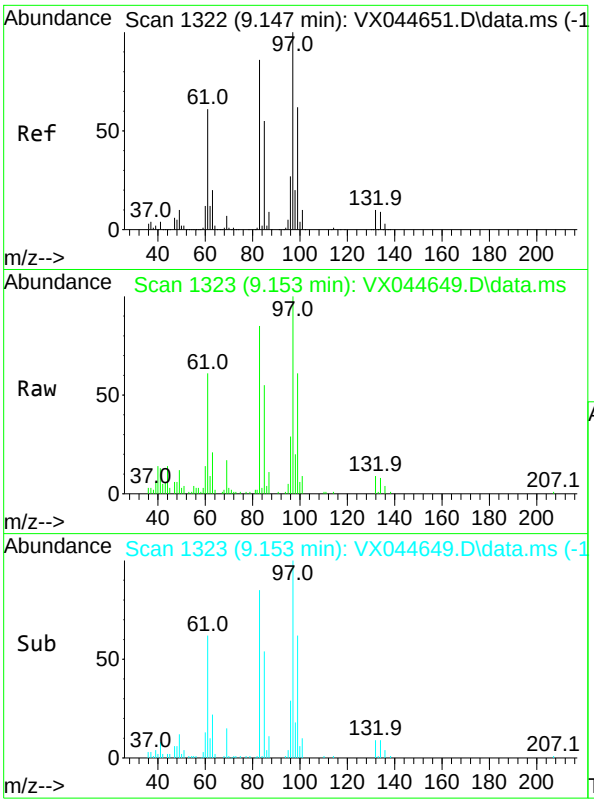



#54
cis-1,3-Dichloropropene
Concen: 4.879 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 21054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 34.6 | 25.1 | 37.7 |
| 39 | 52.2 | 40.3 | 60.5 |

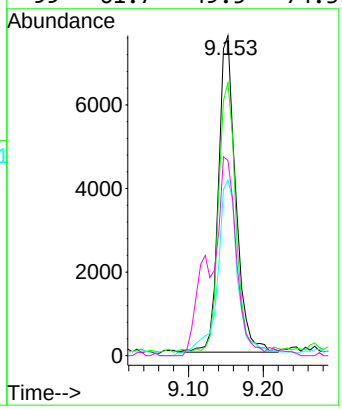





#55
1,1,2-Trichloroethane
Concen: 5.037 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 97 Resp: 1222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.6 | 68.8 | 103.2 |
| 85 | 54.6 | 43.7 | 65.5 |
| 99 | 61.7 | 49.5 | 74.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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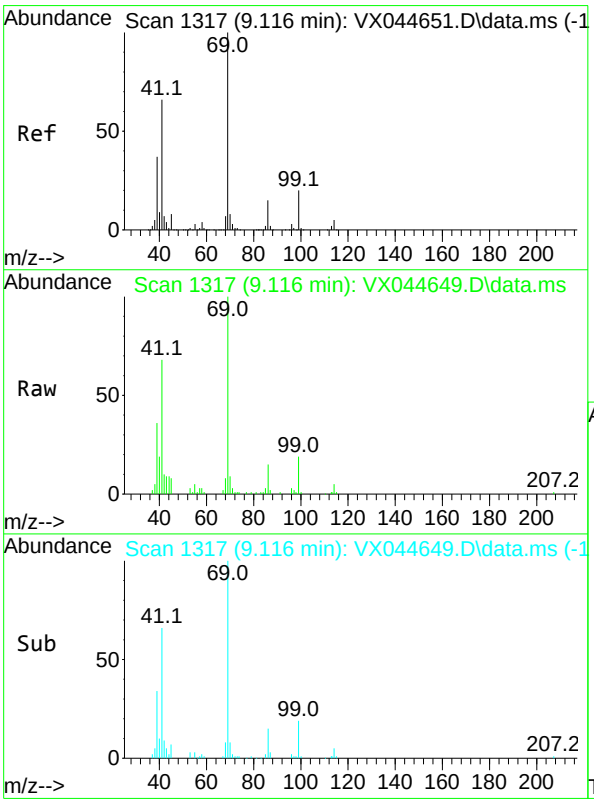
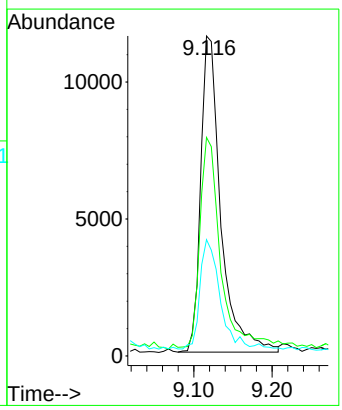
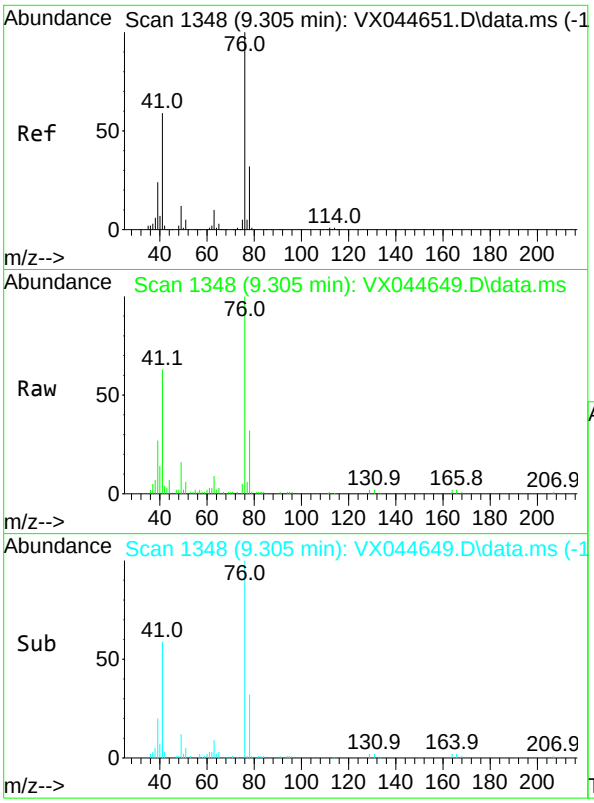



#56
Ethyl methacrylate
Concen: 4.935 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 69 Resp: 20596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 68.9 | 53.2 | 79.8 |
| 39 | 33.8 | 30.2 | 45.2 |

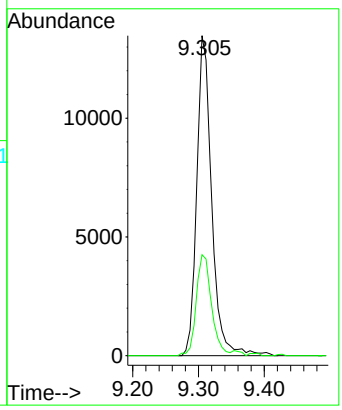





#57
1,3-Dichloropropane
Concen: 5.142 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 76 Resp: 2125

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 26.0 | 39.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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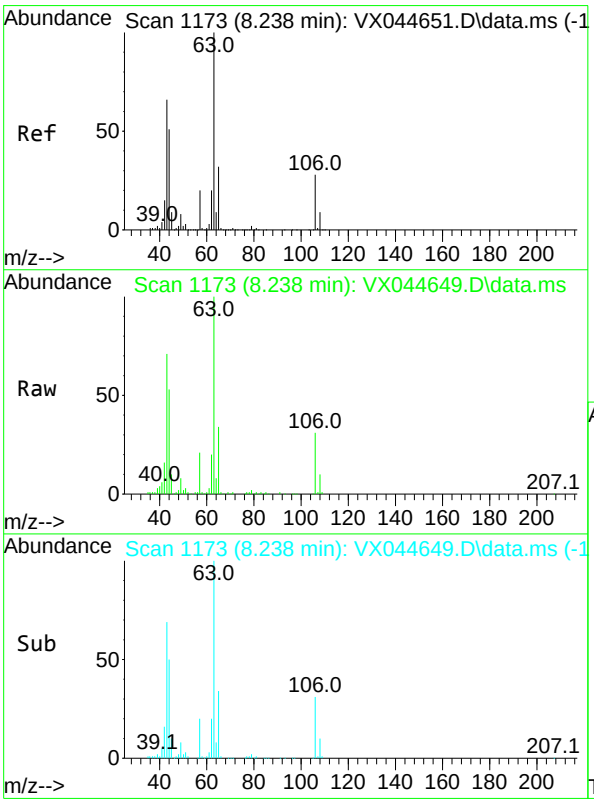
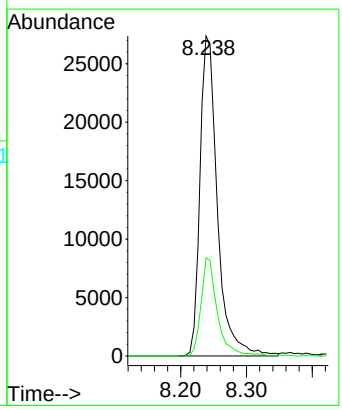
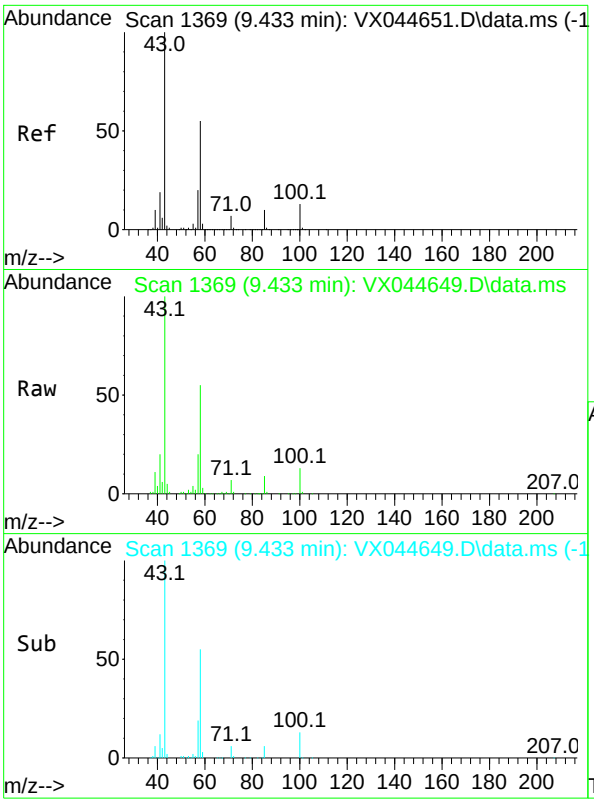



#58
2-Chloroethyl Vinyl ether
Concen: 24.557 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 63 Resp: 50319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.7 | 23.0 | 34.6 |

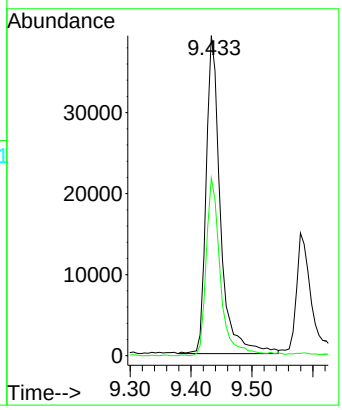





#59
2-Hexanone
Concen: 25.395 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 6398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.5 | 27.8 | 83.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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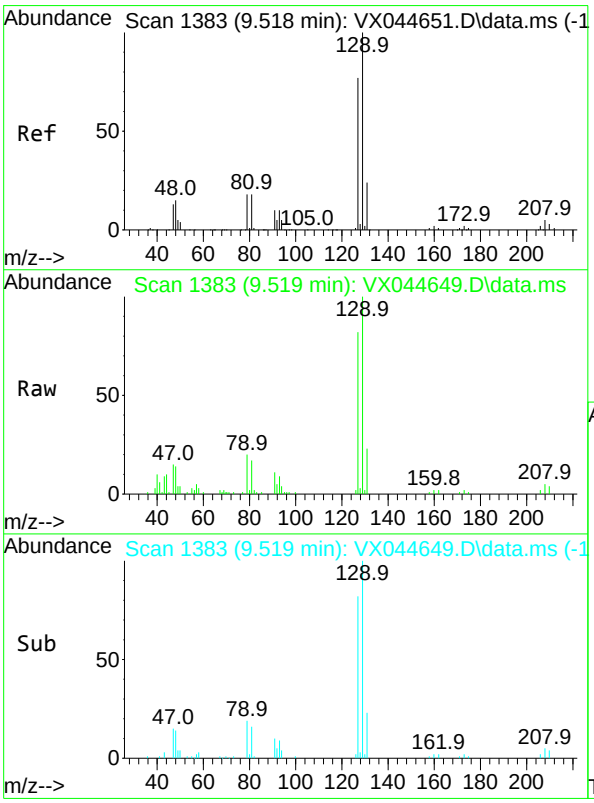
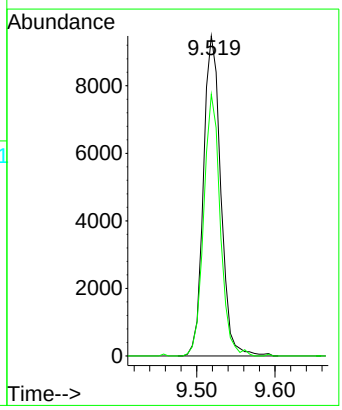
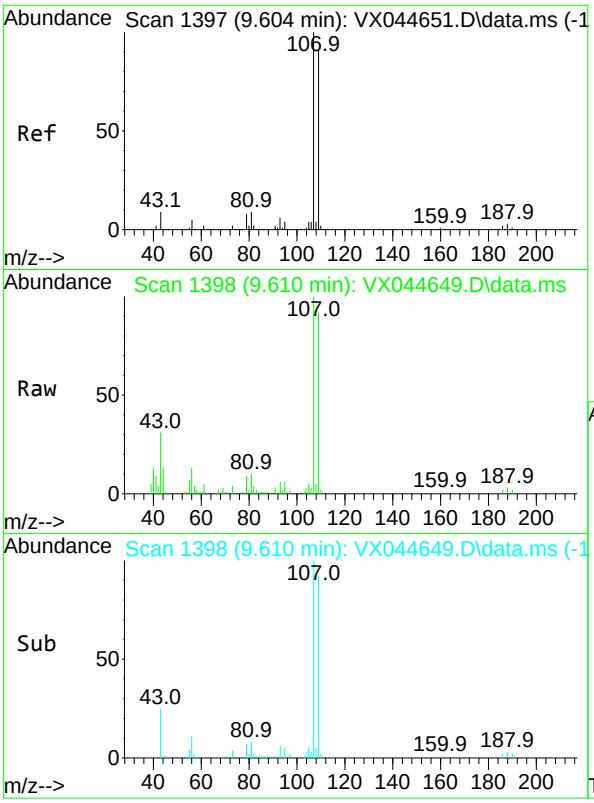



#60
Dibromochloromethane
Concen: 5.108 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:129 Resp: 14553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.0 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 5.077 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:107 Resp: 1291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 97.2 | 75.3 | 112.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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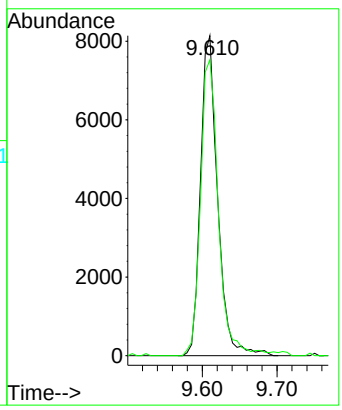
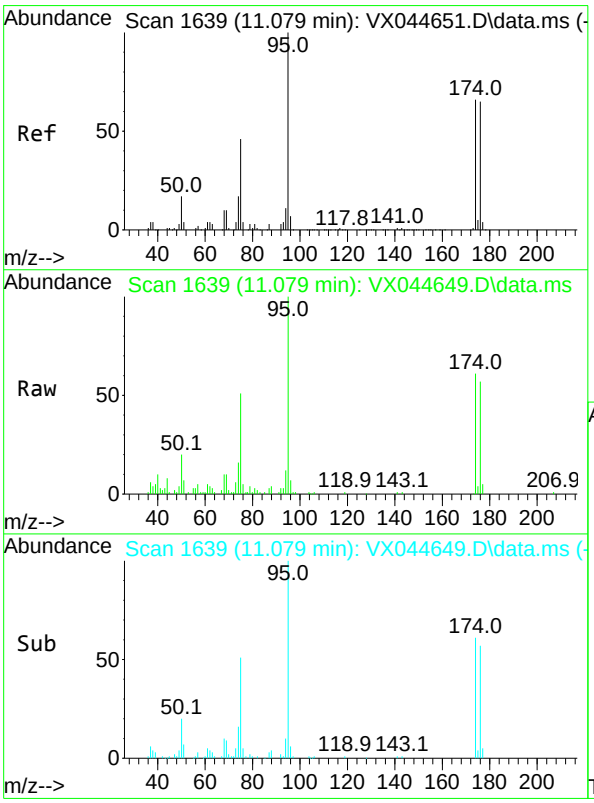
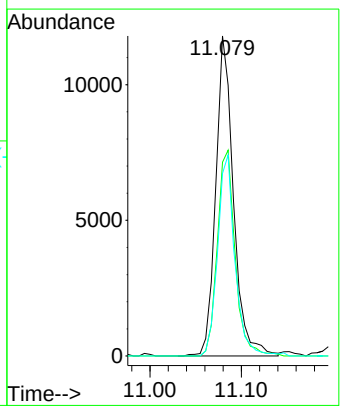


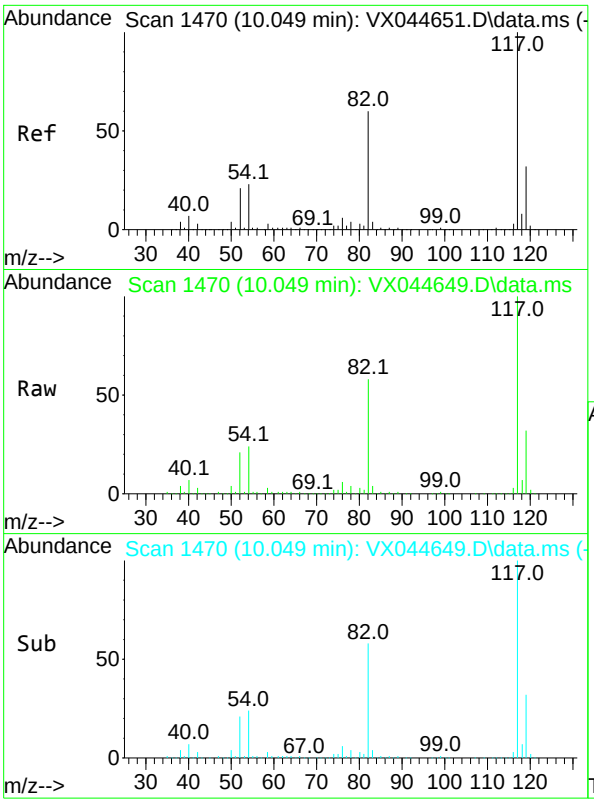




#62
4-Bromofluorobenzene
Concen: 5.386 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 95 Resp: 15909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.6 | 0.0 | 133.0 |
| 176 | 61.6 | 0.0 | 129.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:117 Resp: 30016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.3 | 47.6 | 71.4 |
| 119 | 31.9 | 25.4 | 38.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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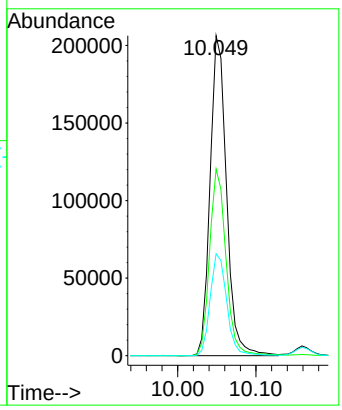
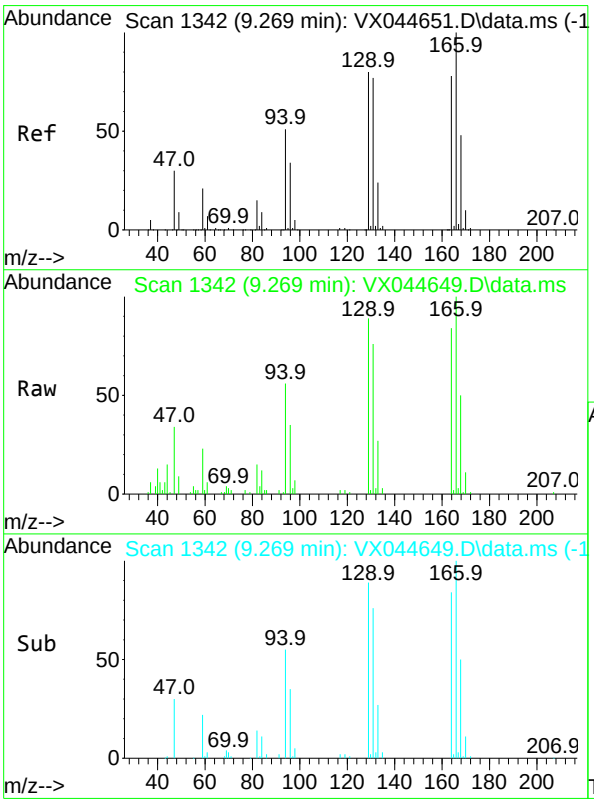
Supervised By :Semsettin Yesilyurt 01/16/2025

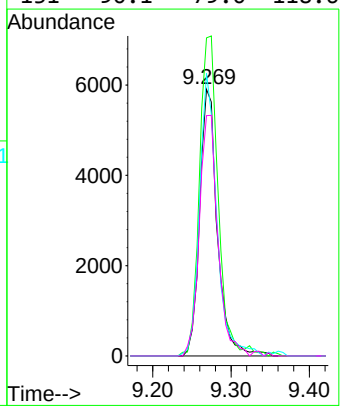


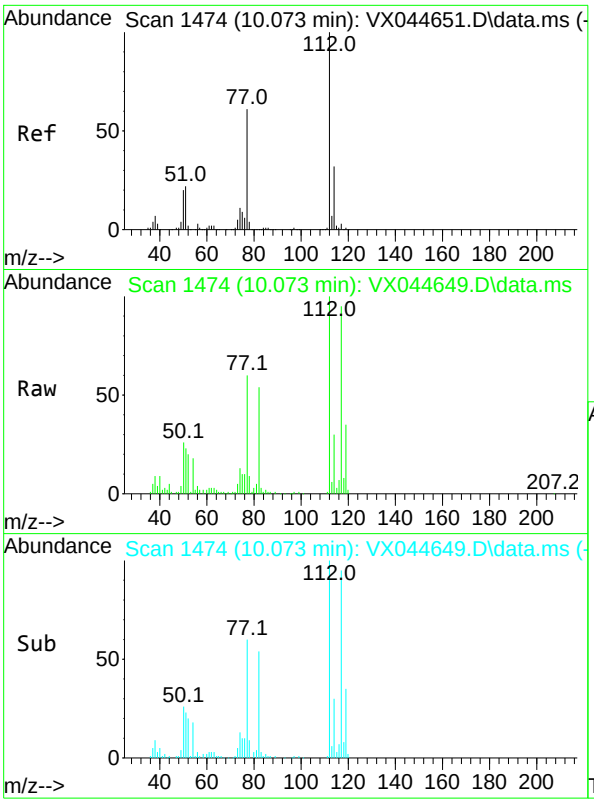




#64
Tetrachloroethene
Concen: 4.920 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:164 Resp: 9274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 119.3 | 102.0 | 153.0 |
| 129 | 106.0 | 81.1 | 121.7 |
| 131 | 90.1 | 79.0 | 118.6 |

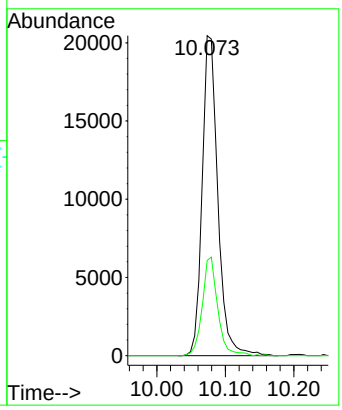





#65
Chlorobenzene
Concen: 5.109 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:112 Resp: 3257

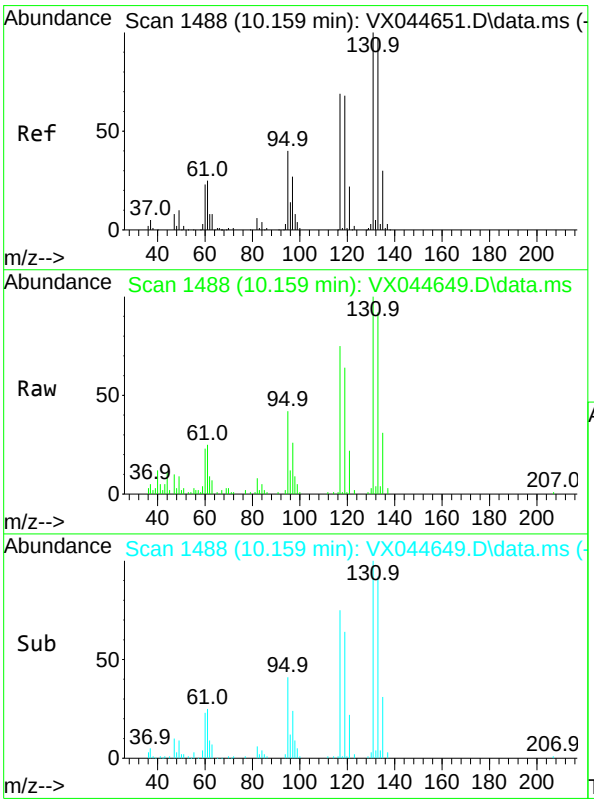
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.8 | 25.3 | 37.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

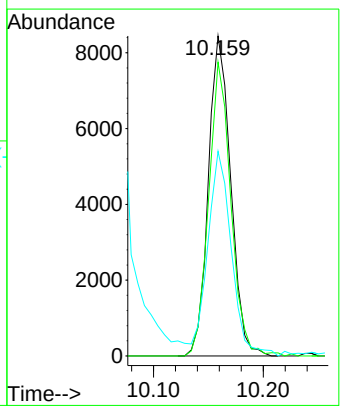
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

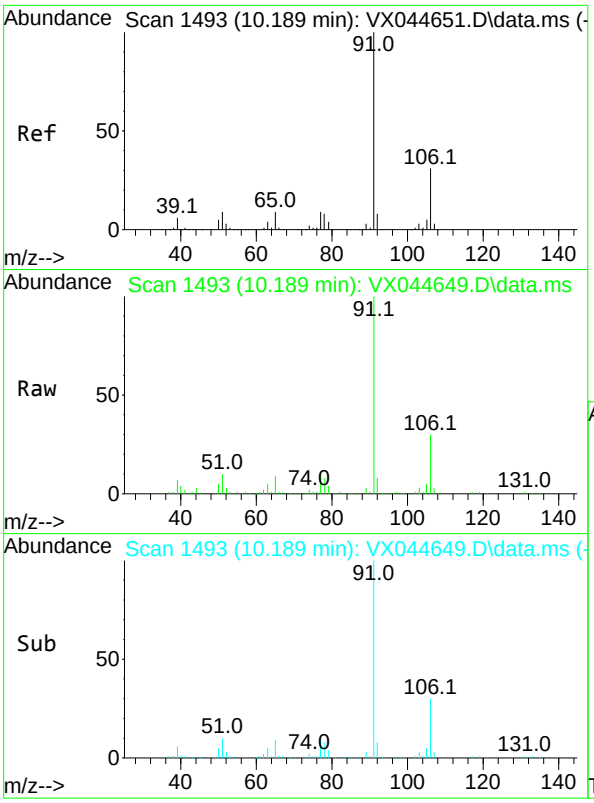



#66
1,1,1,2-Tetrachloroethane
Concen: 5.160 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:131 Resp: 11955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 91.8 | 47.8 | 143.3 |
| 119 | 67.1 | 33.4 | 100.2 |

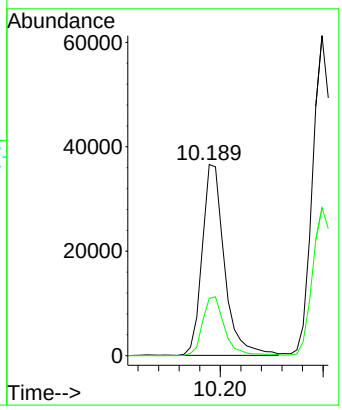





#67
Ethyl Benzene
Concen: 4.963 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 91 Resp: 5520

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.0 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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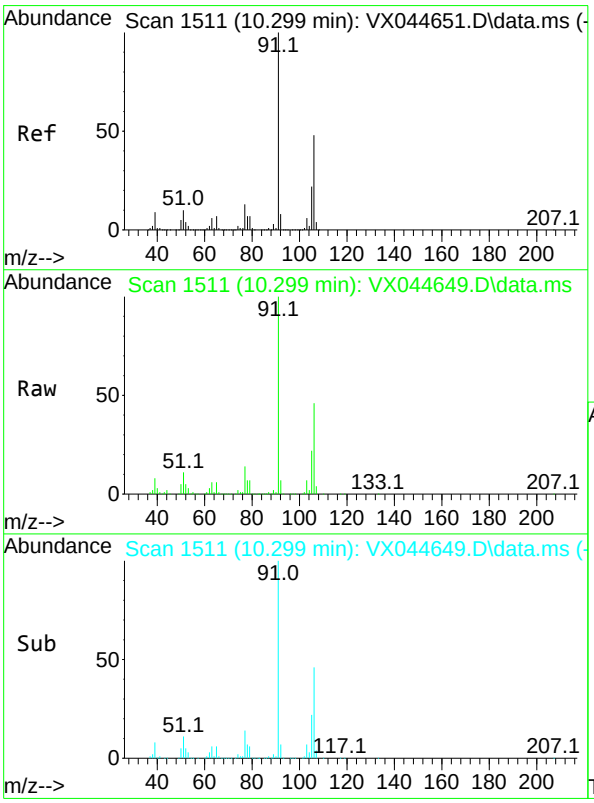
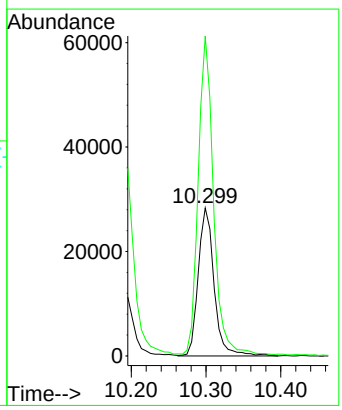
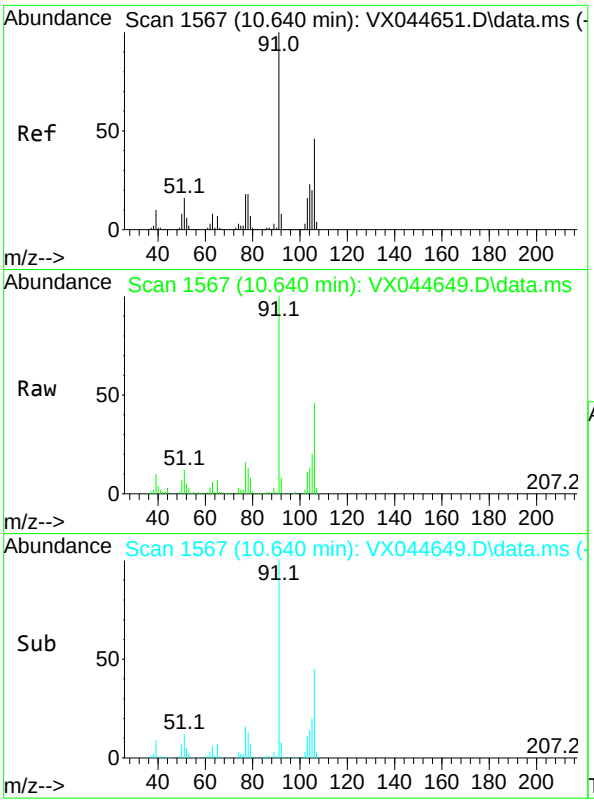



#68
m/p-Xylenes
Concen: 10.129 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:106 Resp: 41816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.3 | 166.4 | 249.6 |






#69
o-Xylene
Concen: 5.124 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:106 Resp: 2139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 223.1 | 108.7 | 326.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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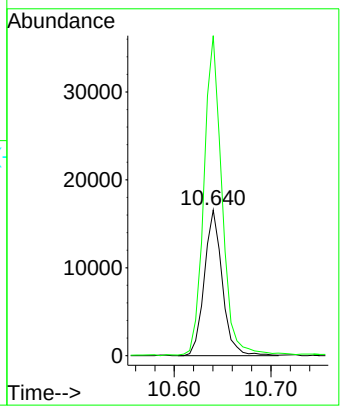
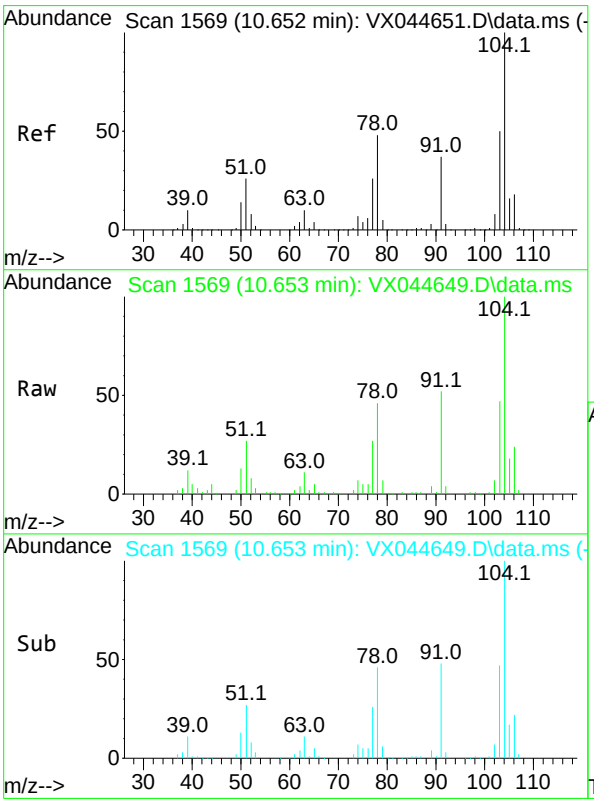
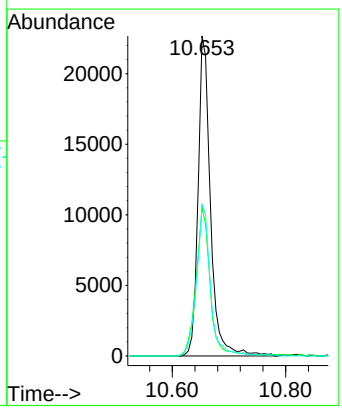


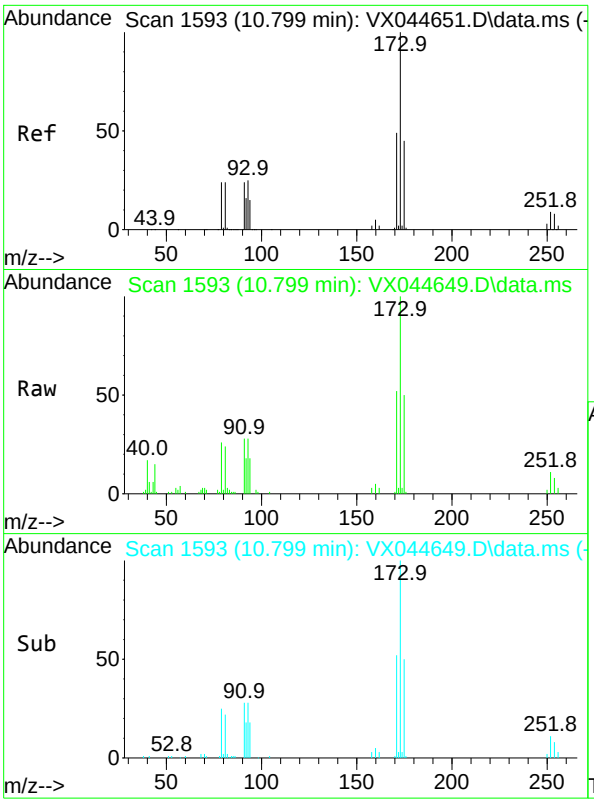




#70
Styrene
Concen: 5.105 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:104 Resp: 34407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.8 | 43.0 | 64.6 |
| 103 | 52.7 | 43.4 | 65.2 |

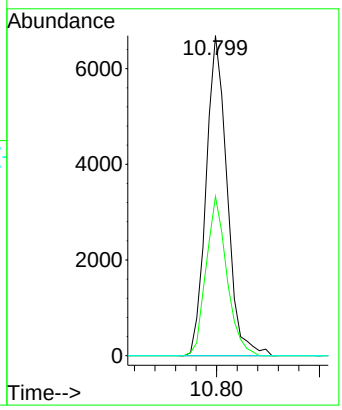





#71
Bromoform
Concen: 5.012 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:173 Resp: 945

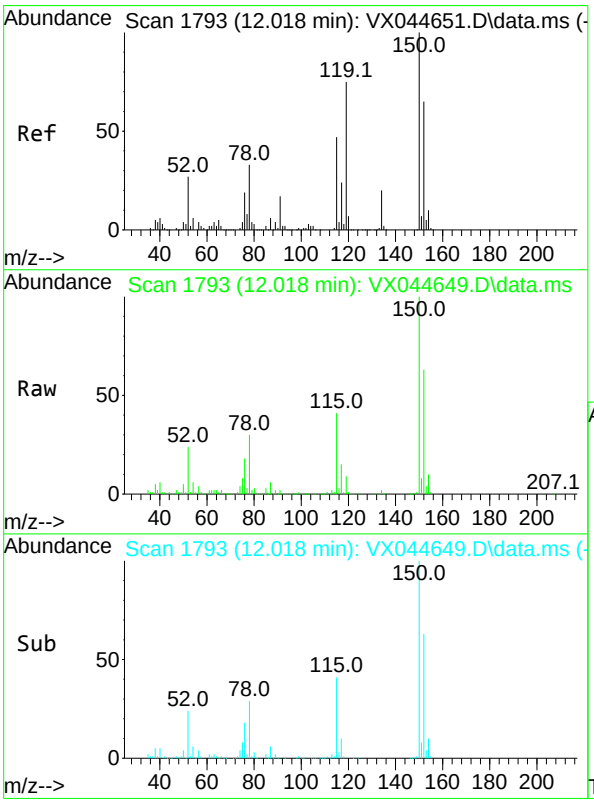
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 23.6 | 70.8 |
| 254 | 0.0 | 0.1 | 0.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

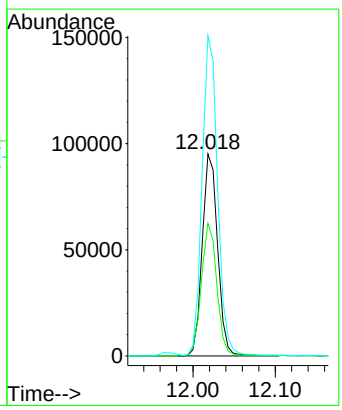
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

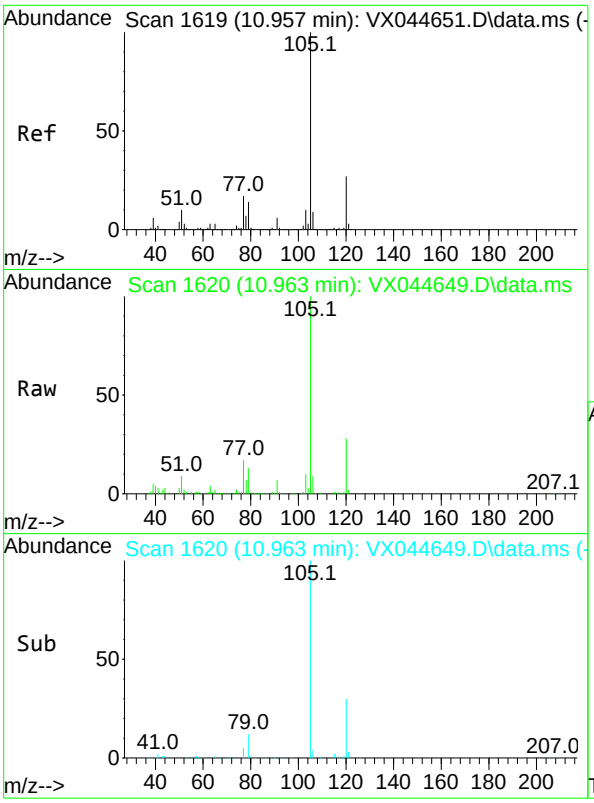



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:152 Resp: 123491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.3 | 43.8 | 131.4 |
| 150 | 158.9 | 0.0 | 347.8 |

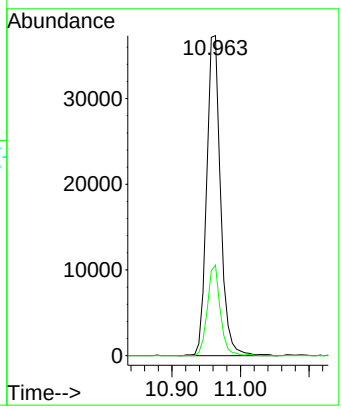





#73
Isopropylbenzene
Concen: 5.214 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:105 Resp: 5259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.2 | 39.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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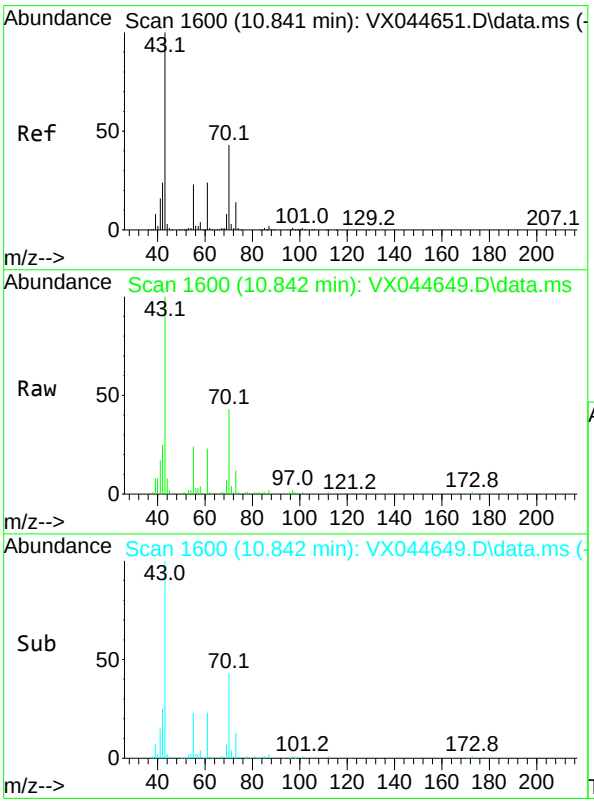
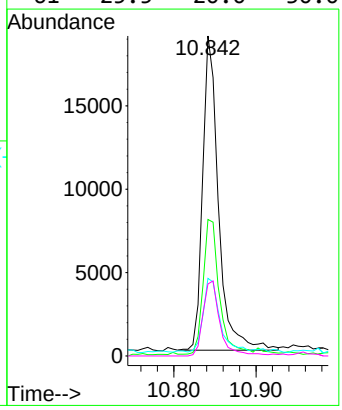
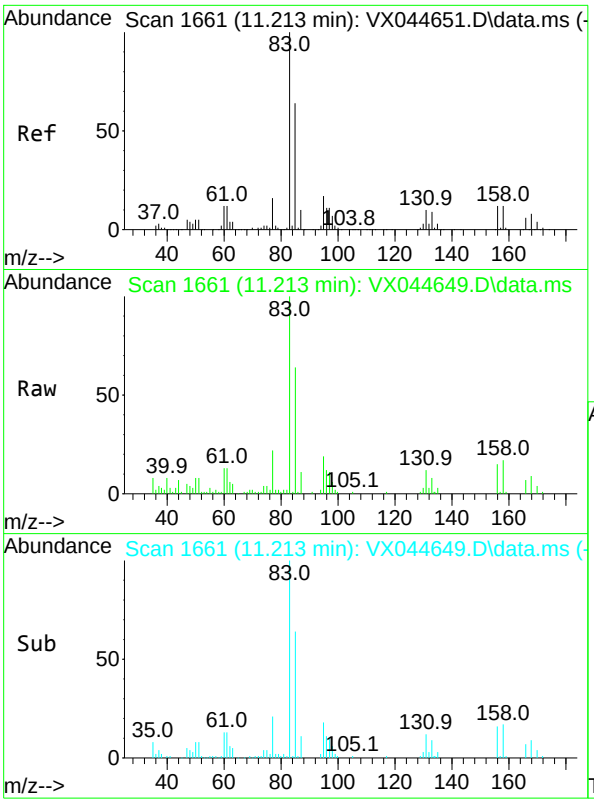



#74
N-amyl acetate
Concen: 5.084 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 25282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.3 | 35.2 | 52.8 |
| 55 | 25.0 | 19.0 | 28.4 |
| 61 | 25.5 | 20.0 | 30.0 |

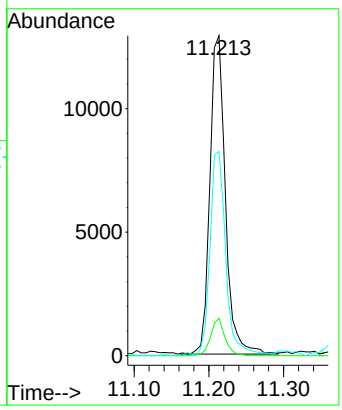





#75
1,1,2,2-Tetrachloroethane
Concen: 5.351 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 83 Resp: 1864

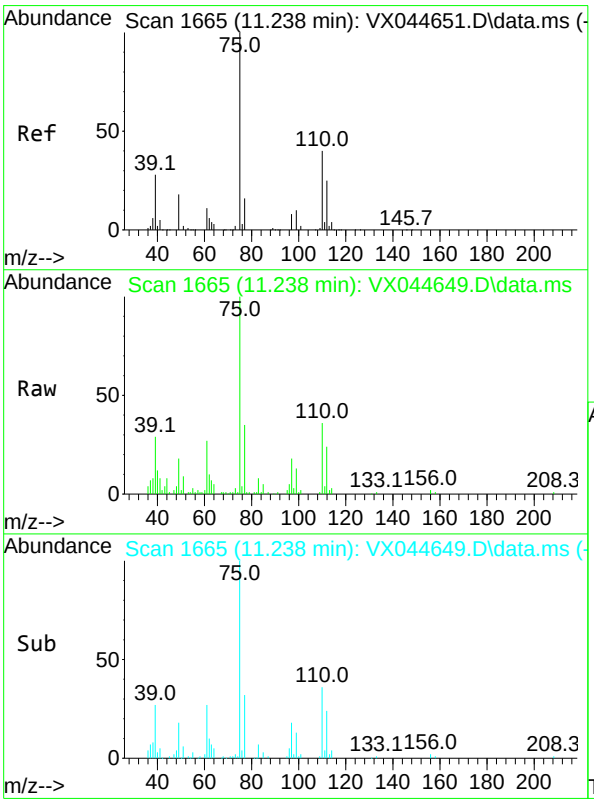
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.8 | 5.0 | 14.9 |
| 85 | 65.7 | 32.0 | 96.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

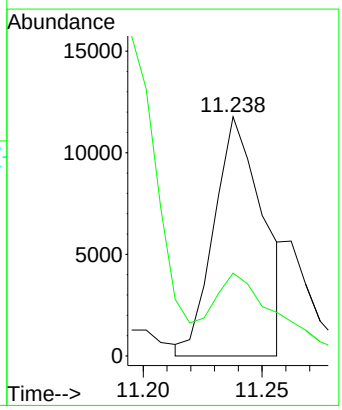
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

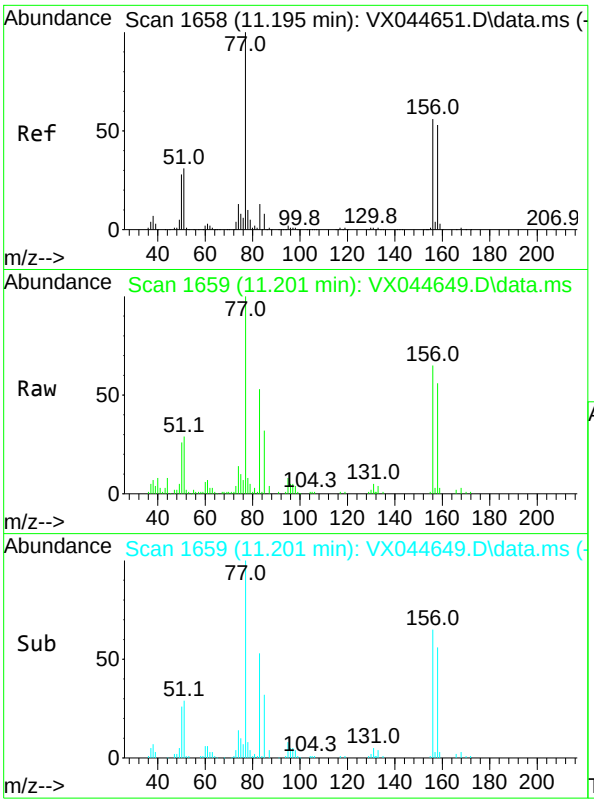



#76
1,2,3-Trichloropropane
Concen: 5.796 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 16903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 44.4 | 23.4 | 70.2 |

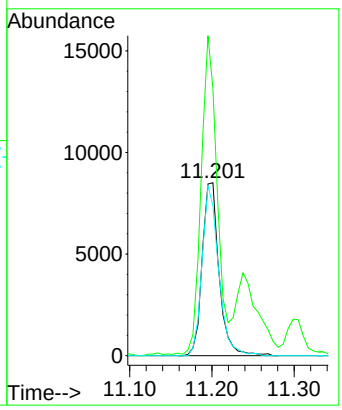





#77
Bromobenzene
Concen: 5.156 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:156 Resp: 1215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 172.0 | 90.3 | 271.0 |
| 158 | 96.4 | 48.4 | 145.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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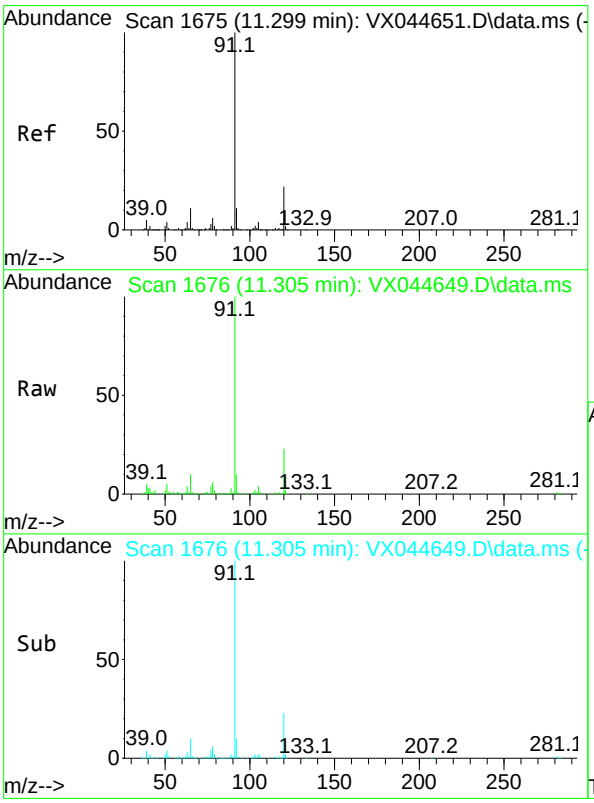
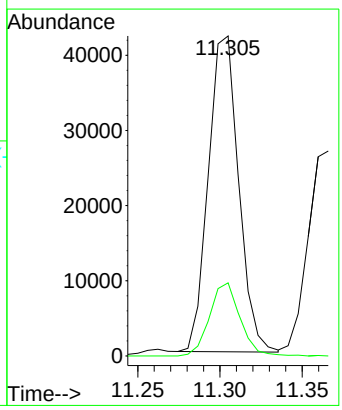
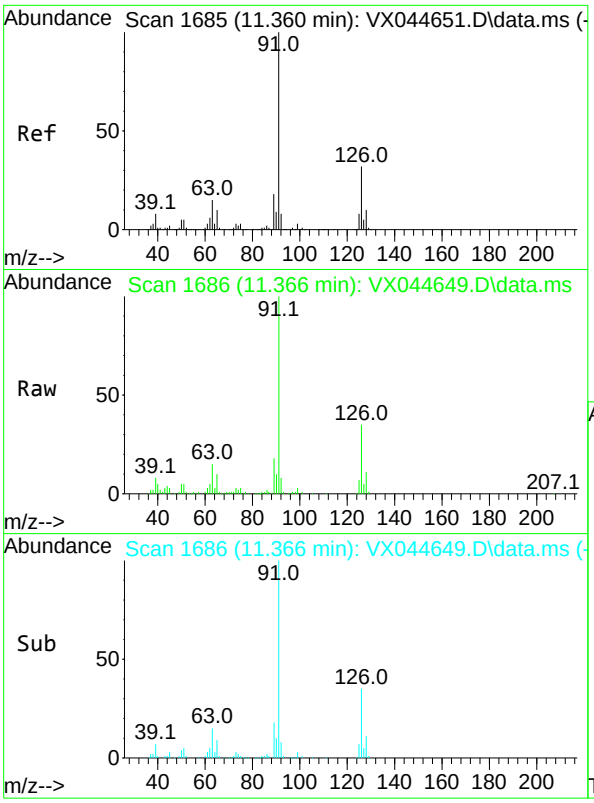



#78
n-propylbenzene
Concen: 4.846 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 91 Resp: 53913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.3 | 11.4 | 34.1 |

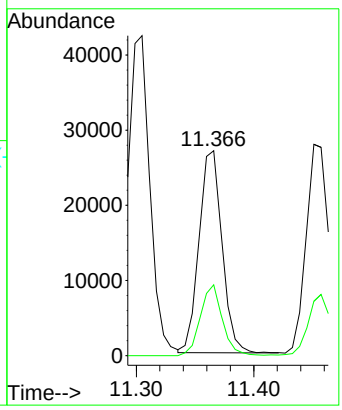





#79
2-Chlorotoluene
Concen: 5.093 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 91 Resp: 3660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.5 | 16.2 | 48.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
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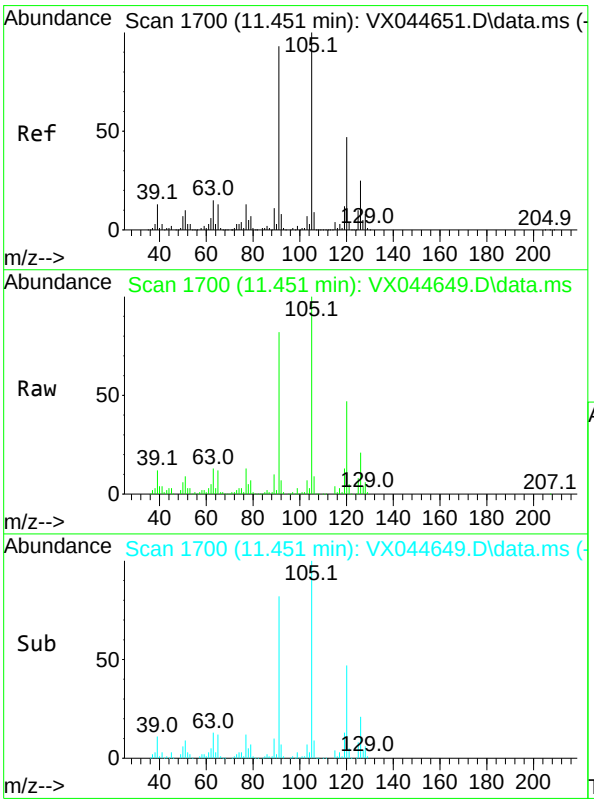
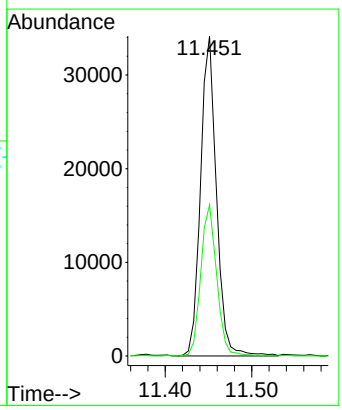
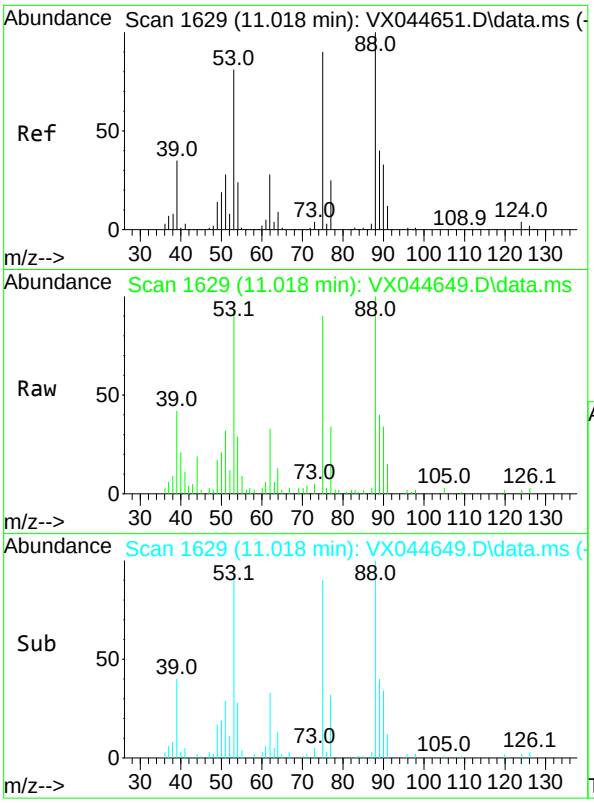



#80
1,3,5-Trimethylbenzene
Concen: 5.295 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:105 Resp: 43488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.3 | 23.7 | 71.1 |

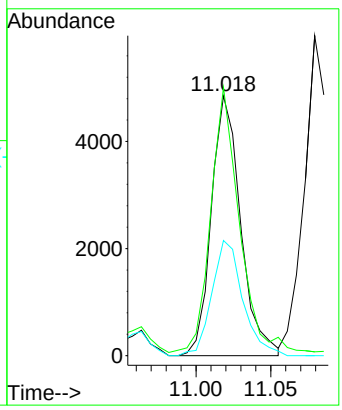





#81
trans-1,4-Dichloro-2-butene
Concen: 5.042 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 660

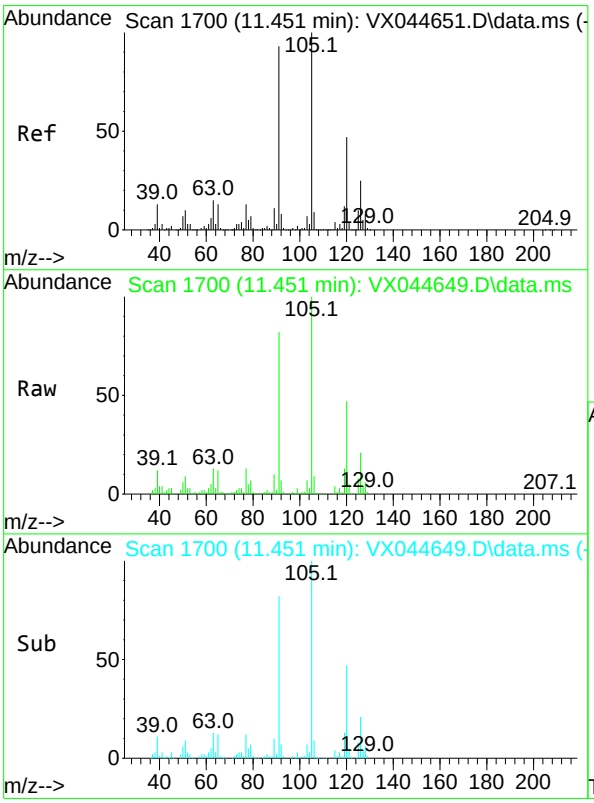
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 100.4 | 74.3 | 111.5 |
| 89 | 46.8 | 37.4 | 56.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

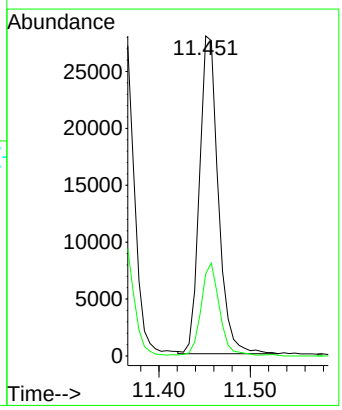
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

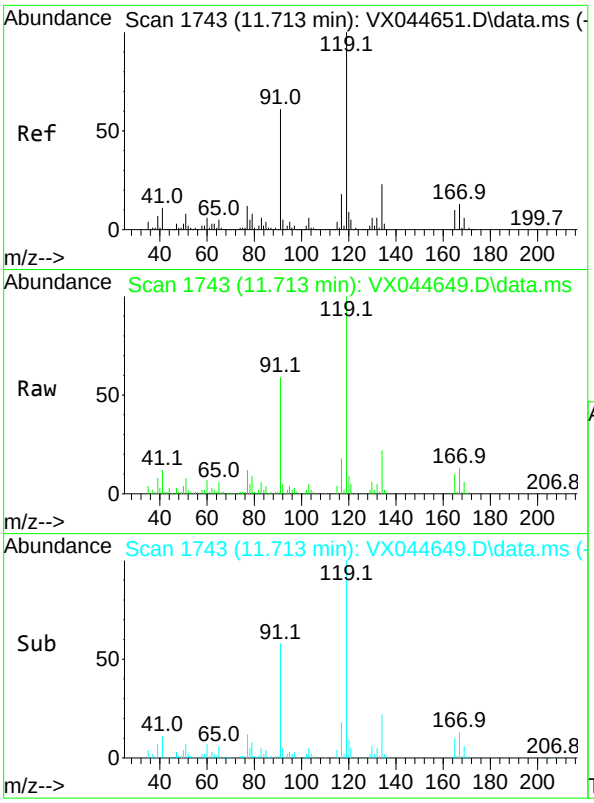



#82
4-Chlorotoluene
Concen: 5.051 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 91 Resp: 39763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.1 | 13.9 | 41.7 |

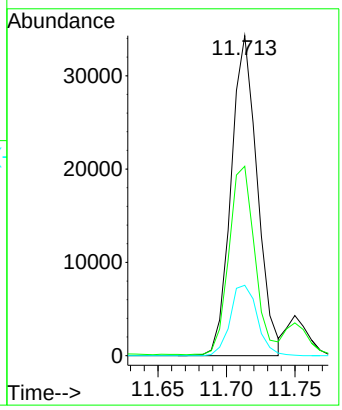





#83
tert-Butylbenzene
Concen: 5.311 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:119 Resp: 4560

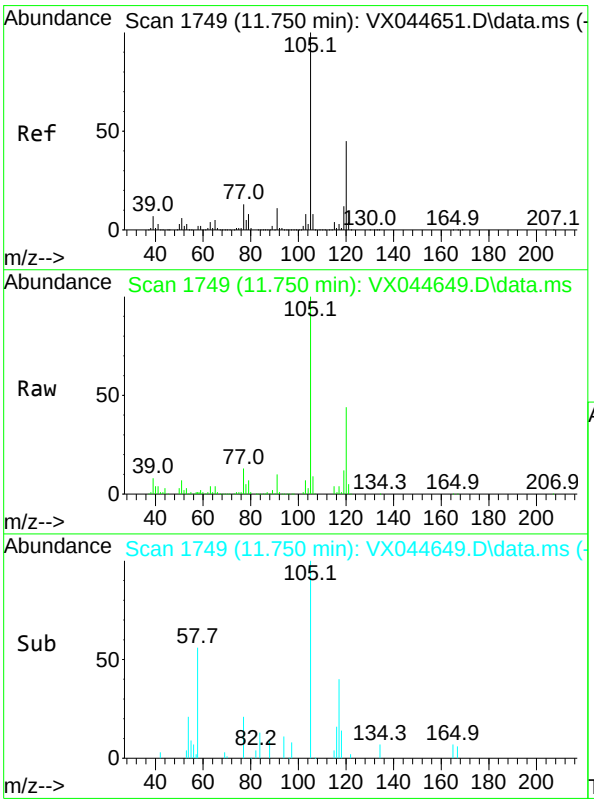
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 58.6 | 30.0 | 90.0 |
| 134 | 22.8 | 11.2 | 33.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

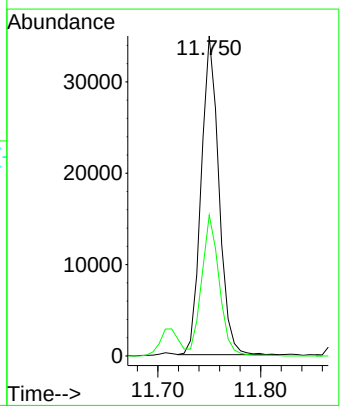
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

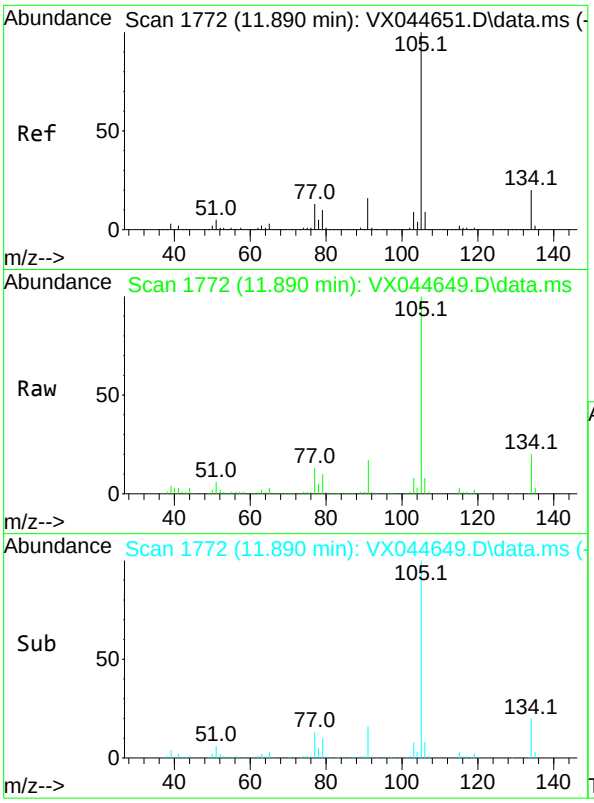



#84
1,2,4-Trimethylbenzene
Concen: 5.001 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:105 Resp: 41737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.7 | 22.2 | 66.6 |

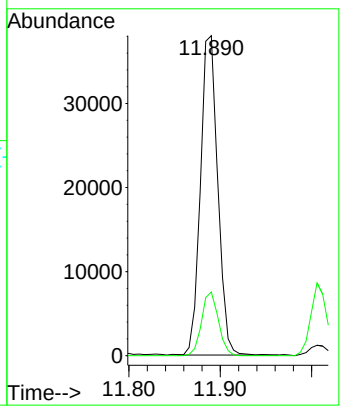





#85
sec-Butylbenzene
Concen: 4.987 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:105 Resp: 4985

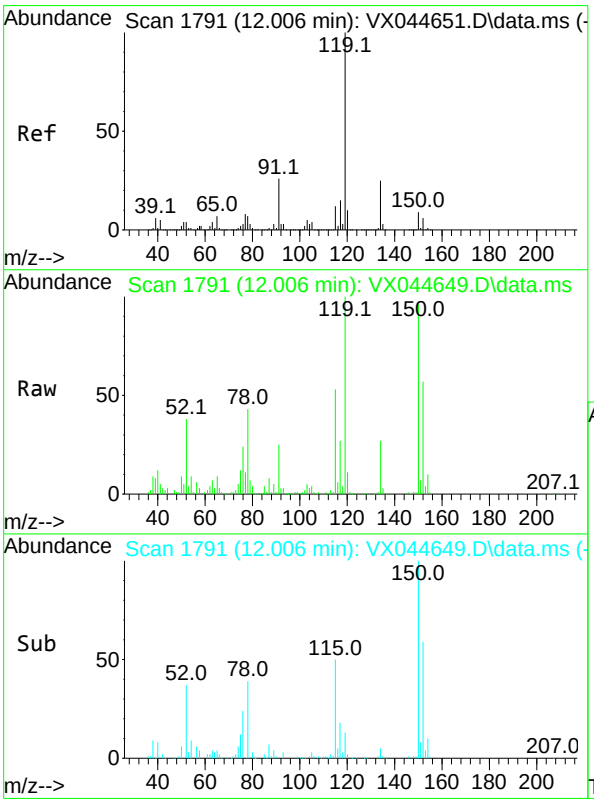
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 9.8 | 29.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

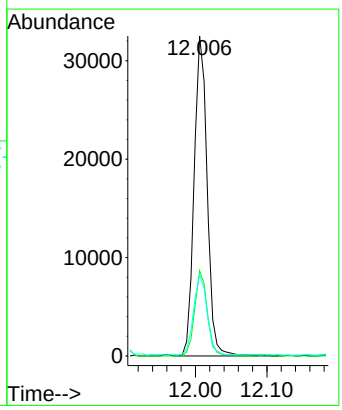
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

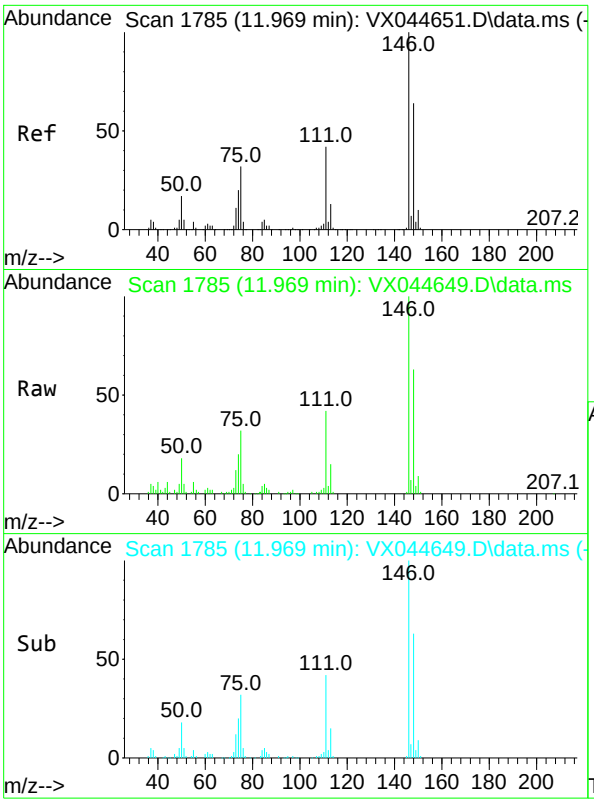



#86
p-Isopropyltoluene
Concen: 5.016 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:119 Resp: 41214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.9 | 12.8 | 38.4 |
| 91 | 25.8 | 12.7 | 38.1 |

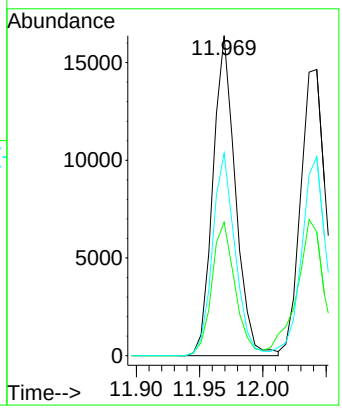





#87
1,3-Dichlorobenzene
Concen: 4.956 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:146 Resp: 2026

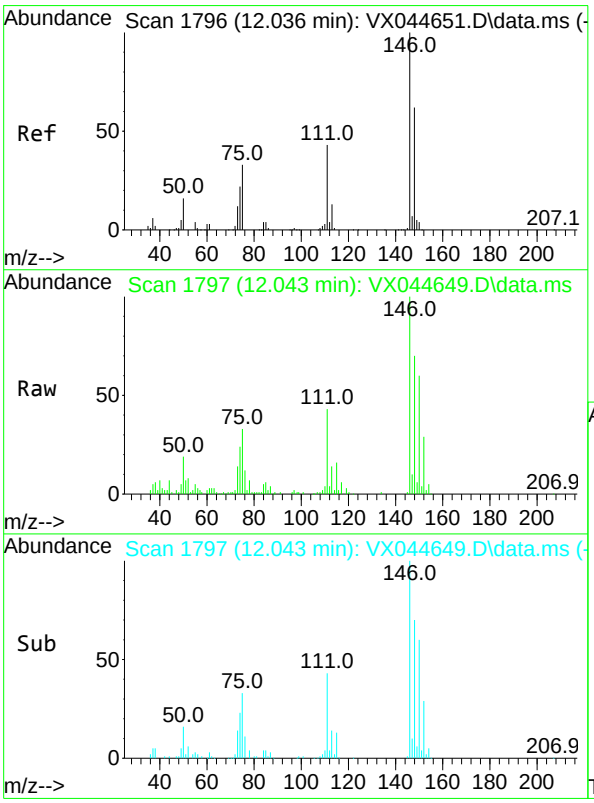
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.3 | 21.9 | 65.7 |
| 148 | 63.7 | 31.8 | 95.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

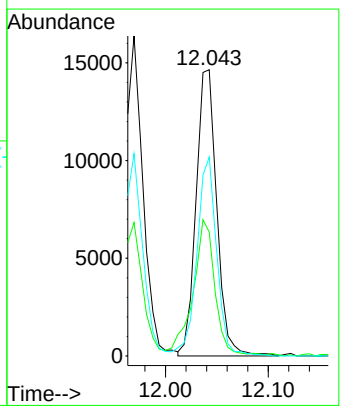
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

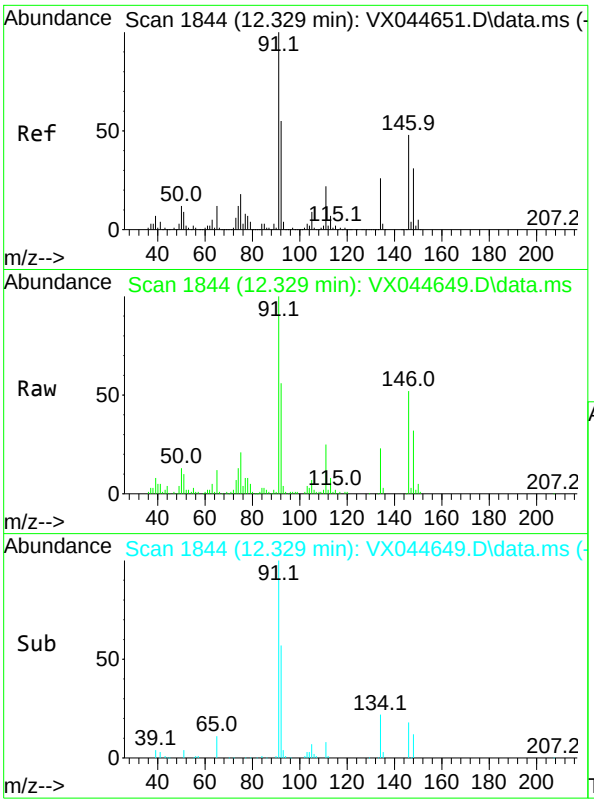



#88
1,4-Dichlorobenzene
Concen: 5.062 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:146 Resp: 20555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.4 | 21.5 | 64.5 |
| 148 | 66.7 | 32.1 | 96.5 |

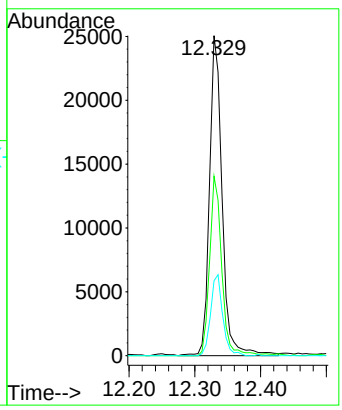





#89
n-Butylbenzene
Concen: 4.747 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 91 Resp: 3350

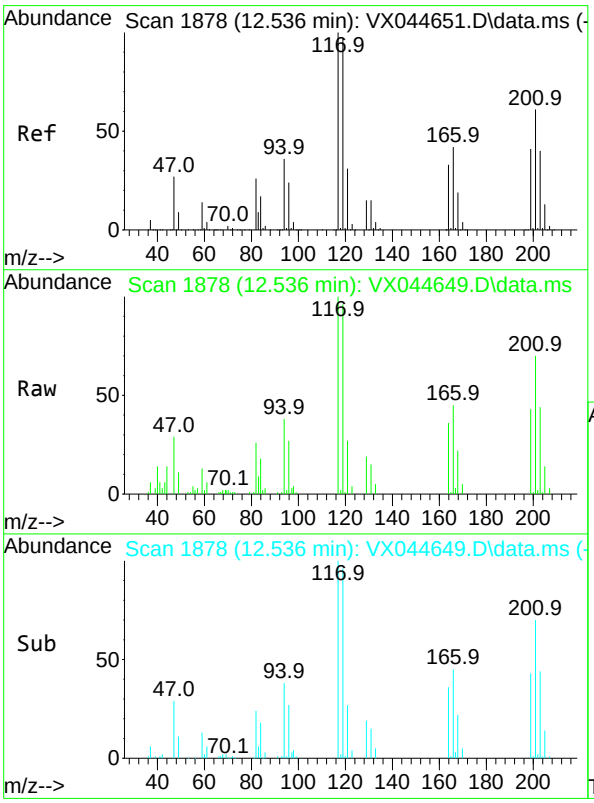
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.5 | 27.4 | 82.0 |
| 134 | 24.2 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

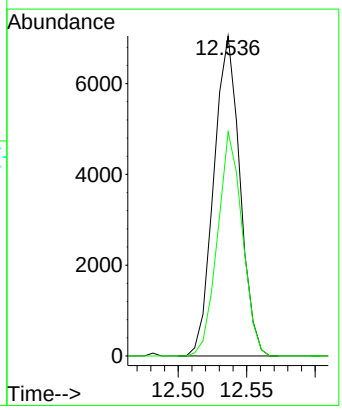
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

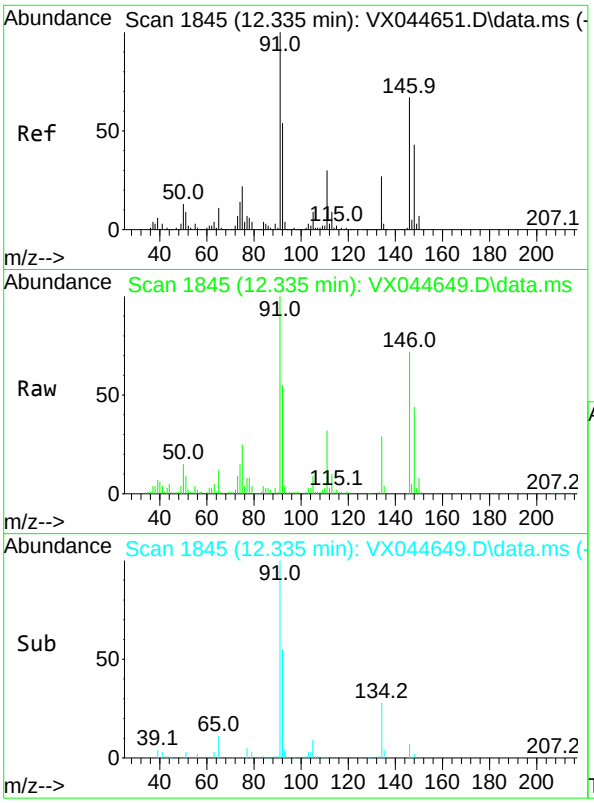



#90
Hexachloroethane
Concen: 5.012 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:117 Resp: 9325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 66.5 | 32.3 | 96.8 |

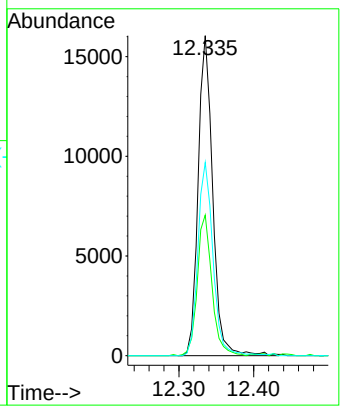





#91
1,2-Dichlorobenzene
Concen: 5.165 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:146 Resp: 2169

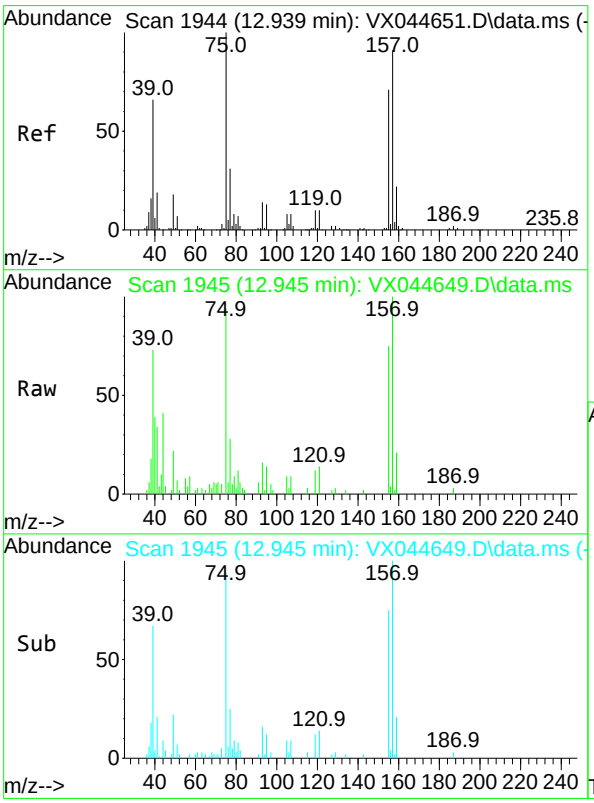
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.3 | 22.4 | 67.2 |
| 148 | 62.5 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

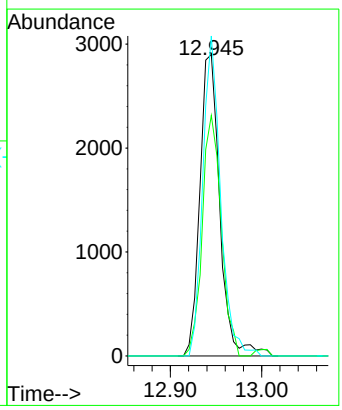
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

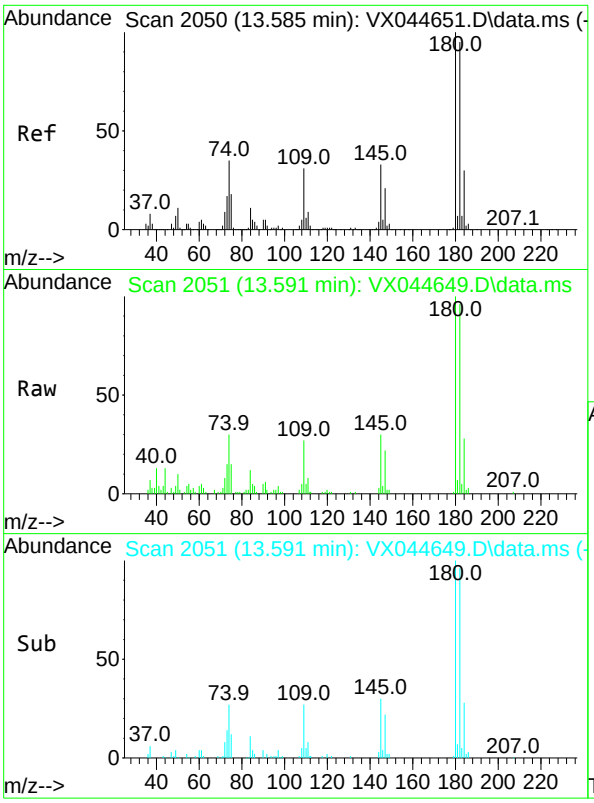



#92
1,2-Dibromo-3-Chloropropane
Concen: 5.145 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 4384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 76.0 | 39.0 | 116.9 |
| 157 | 94.7 | 49.9 | 149.7 |

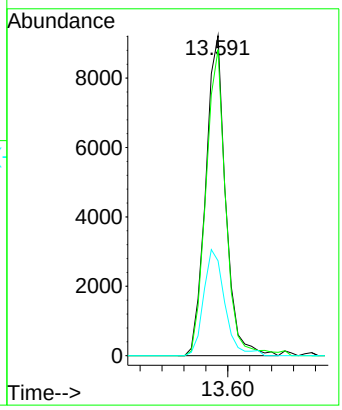





#93
1,2,4-Trichlorobenzene
Concen: 4.640 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:180 Resp: 1164

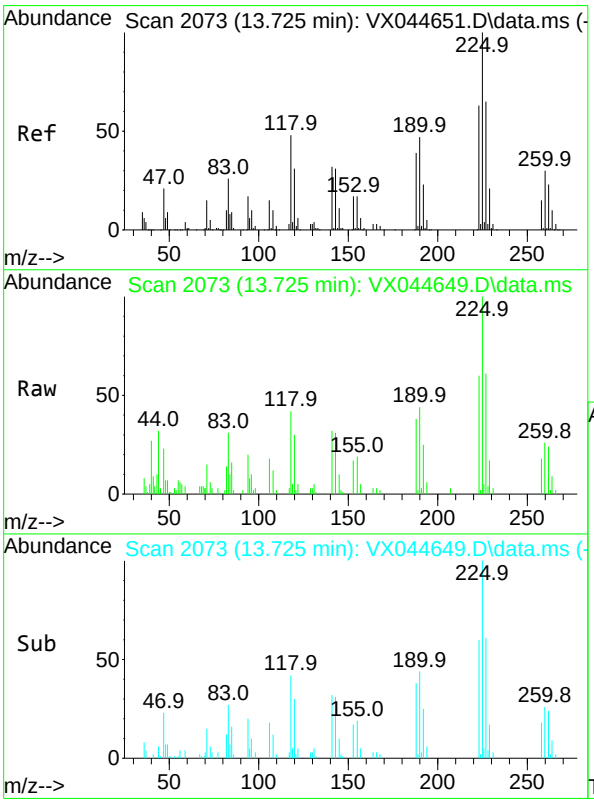
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 47.4 | 142.2 |
| 145 | 35.1 | 16.7 | 50.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

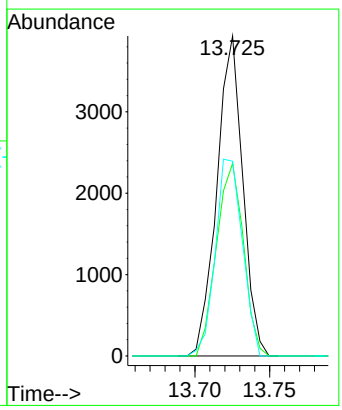
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

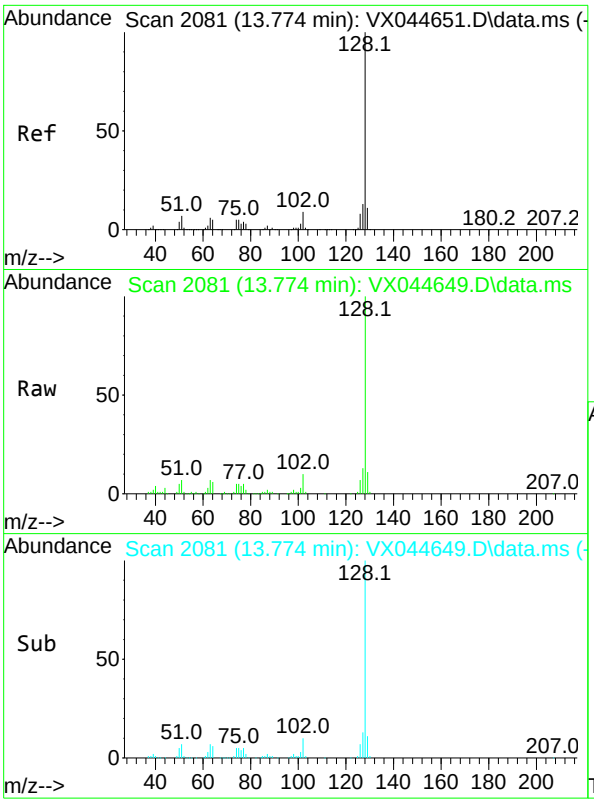



#94
Hexachlorobutadiene
Concen: 4.804 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:225 Resp: 4738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.9 | 95.7 |
| 227 | 64.2 | 31.8 | 95.4 |

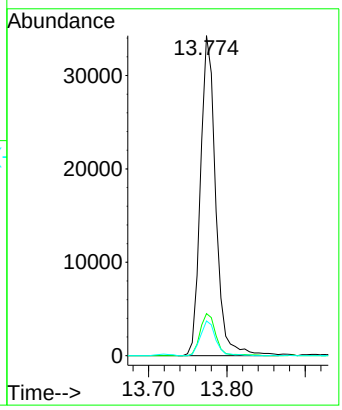





#95
Naphthalene
Concen: 4.794 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:128 Resp: 4641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.3 | 15.5 |
| 129 | 10.9 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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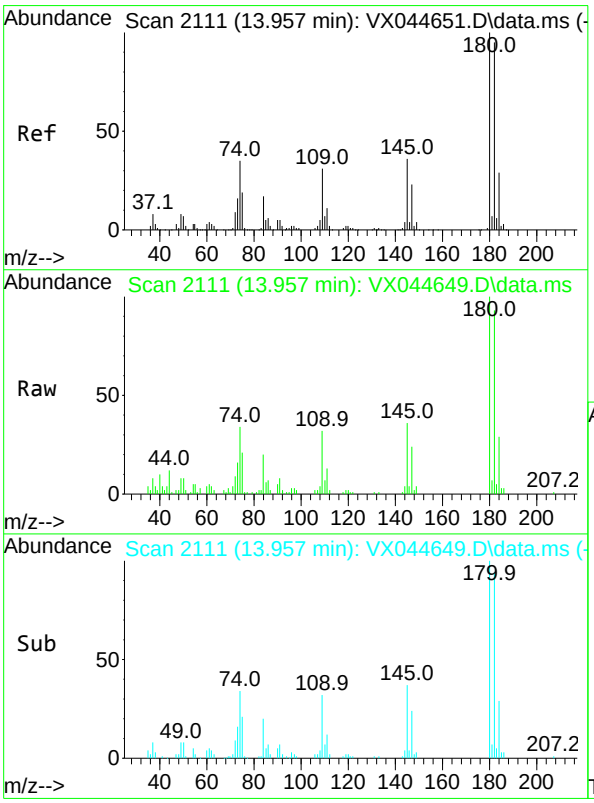
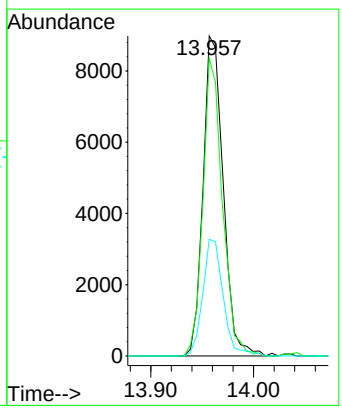



#96
1,2,3-Trichlorobenzene
Concen: 4.710 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:180 Resp: 12258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 90.2 | 47.2 | 141.6 |
| 145 | 36.9 | 17.5 | 52.6 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044650.D
Acq On : 15 Jan 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 189658 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 351528 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 305422 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 130861 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 52421 | 18.311 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 36.620%# | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 40585 | 18.173 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 36.340%# | | |
| 50) Toluene-d8 | 8.647 | 98 | 147843 | 18.987 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 37.980%# | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 55407 | 19.087 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 38.180%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.167 | 85 | 48623 | 19.052 | ug/l | 97 |
| 3) Chloromethane | 1.295 | 50 | 54827 | 19.866 | ug/l | 97 |
| 4) Vinyl Chloride | 1.374 | 62 | 51689 | 18.955 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 12588 | 19.333 | ug/l | 98 |
| 6) Chloroethane | 1.660 | 64 | 8576 | 17.150 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.868 | 101 | 57313 | 19.017 | ug/l | 100 |
| 8) Diethyl Ether | 2.136 | 74 | 23029 | 18.934 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 42608 | 18.807 | ug/l | 98 |
| 10) Methyl Iodide | 2.441 | 142 | 63102 | 20.401 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.977 | 59 | 62614m | 96.990 | ug/l | |
| 12) 1,1-Dichloroethene | 2.307 | 96 | 43408 | 19.547 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 24912 | 82.949 | ug/l | 93 |
| 14) Allyl chloride | 2.654 | 41 | 81766 | 18.911 | ug/l | 100 |
| 15) Acrylonitrile | 3.063 | 53 | 123315 | 98.515 | ug/l | 98 |
| 16) Acetone | 2.386 | 43 | 103836 | 91.678 | ug/l | 98 |
| 17) Carbon Disulfide | 2.502 | 76 | 119145 | 19.662 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 62684 | 17.939 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 158601 | 19.718 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 51758 | 19.623 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 44786 | 19.317 | ug/l | 95 |
| 22) Diisopropyl ether | 3.758 | 45 | 151033 | 20.095 | ug/l | 94 |
| 23) Vinyl Acetate | 3.715 | 43 | 666641 | 101.337 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 88060 | 19.758 | ug/l | 100 |
| 25) 2-Butanone | 4.556 | 43 | 168309 | 99.946 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 82977 | 19.209 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 56594 | 19.406 | ug/l | 99 |
| 28) Bromochloromethane | 4.891 | 49 | 39526 | 18.978 | ug/l | 98 |
| 29) Tetrahydrofuran | 5.001 | 42 | 106241 | 97.807 | ug/l | 100 |
| 30) Chloroform | 5.087 | 83 | 89891 | 19.985 | ug/l | 99 |
| 31) Cyclohexane | 5.458 | 56 | 72527 | 20.120 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 78644 | 19.019 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 59303 | 19.076 | ug/l | 99 |
| 37) Ethyl Acetate | 4.715 | 43 | 66324 | 20.034 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 65838 | 18.829 | ug/l | 95 |
| 39) Methylcyclohexane | 7.373 | 83 | 78248 | 18.961 | ug/l | 97 |
| 40) Benzene | 6.032 | 78 | 191801 | 19.911 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044650.D
Acq On : 15 Jan 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 36180 | 19.016 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 69034 | 19.635 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.336 | 43 | 119568 | 19.633 | ug/l | | 99 |
| 44) Trichloroethene | 7.117 | 130 | 45597 | 19.689 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 47111 | 19.429 | ug/l | | 100 |
| 46) Dibromomethane | 7.580 | 93 | 35056 | 18.991 | ug/l | | 98 |
| 47) Bromodichloromethane | 7.818 | 83 | 72837 | 19.241 | ug/l | | 94 |
| 48) Methyl methacrylate | 7.690 | 41 | 57413 | 20.310 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.665 | 88 | 23433 | 397.311 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 338304 | 100.520 | ug/l | | 99 |
| 52) Toluene | 8.714 | 92 | 119410 | 20.253 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 79260 | 20.266 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 84851 | 20.008 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 47930 | 20.093 | ug/l | | 97 |
| 56) Ethyl methacrylate | 9.116 | 69 | 84067 | 20.496 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 81718 | 20.117 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 176999 | 87.899 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 250792 | 101.288 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 56038 | 20.015 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 50060 | 20.025 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.269 | 164 | 36566 | 19.066 | ug/l | | 96 |
| 65) Chlorobenzene | 10.073 | 112 | 126540 | 19.506 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 45959 | 19.493 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 223249 | 19.723 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 167689 | 39.921 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 84280 | 19.840 | ug/l | | 99 |
| 70) Styrene | 10.653 | 104 | 138465 | 20.189 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 36839 | 19.198 | ug/l | # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 211633 | 19.797 | ug/l | | 99 |
| 74) N-amyl acetate | 10.842 | 43 | 103040 | 19.555 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 73190 | 19.823 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 61409m | 19.870 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 48555 | 19.432 | ug/l | | 100 |
| 78) n-propylbenzene | 11.299 | 91 | 234567 | 19.896 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 149688 | 19.655 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 173348 | 19.919 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 27061 | 19.486 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 166586 | 19.968 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 178504 | 19.617 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 175164 | 19.807 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 208186 | 19.649 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 171507 | 19.697 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 84759 | 19.560 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.037 | 146 | 84055 | 19.536 | ug/l | | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 145015 | 19.391 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 36858 | 18.693 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 87147 | 19.582 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 16770 | 18.572 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 49471 | 18.595 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.719 | 225 | 19513 | 18.672 | ug/l | | 99 |
| 95) Naphthalene | 13.774 | 128 | 198769 | 19.372 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 52651 | 19.093 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044650.D
Acq On : 15 Jan 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 00:59:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

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

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

ICAL Form

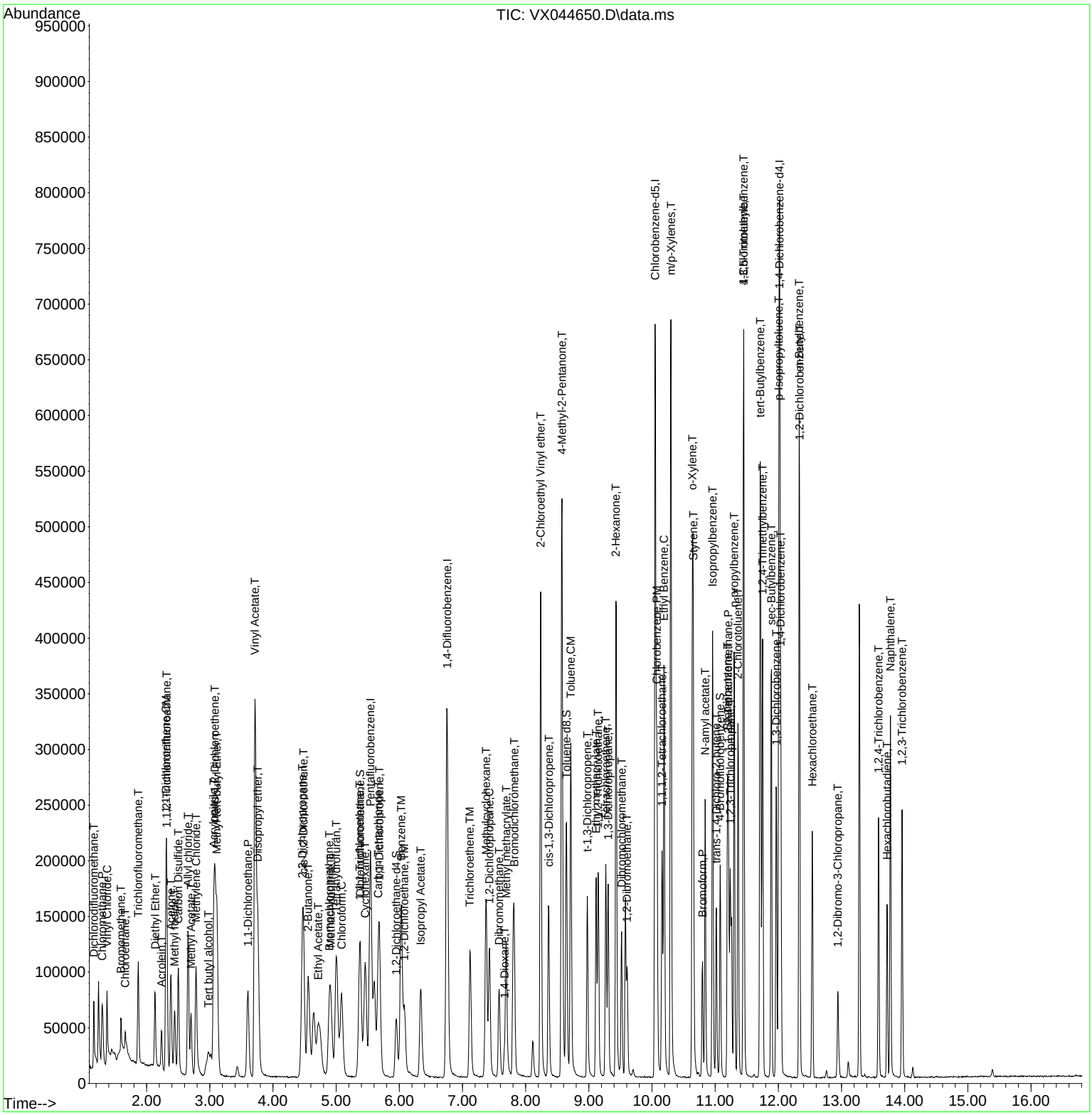
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044650.D
Acq On : 15 Jan 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

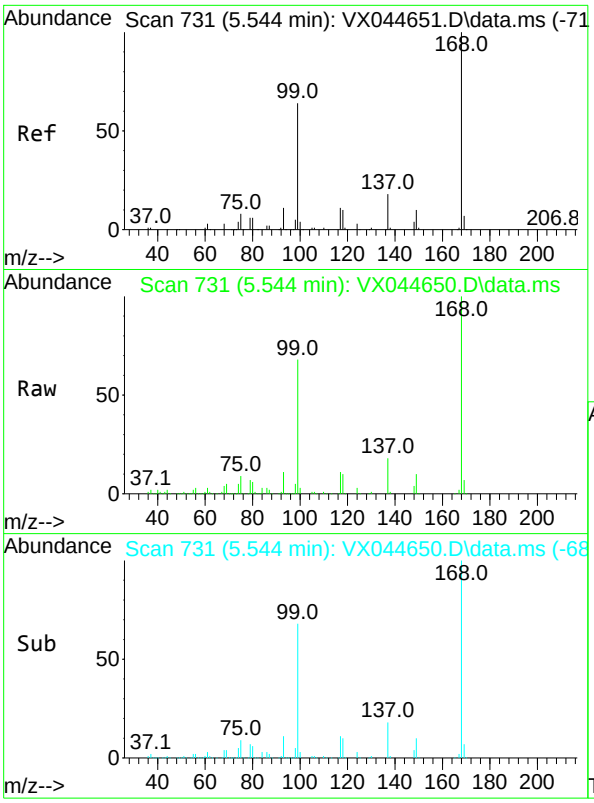
Quant Time: Jan 16 00:59:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

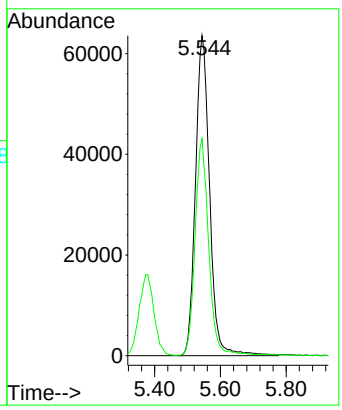





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:168 Resp: 18965

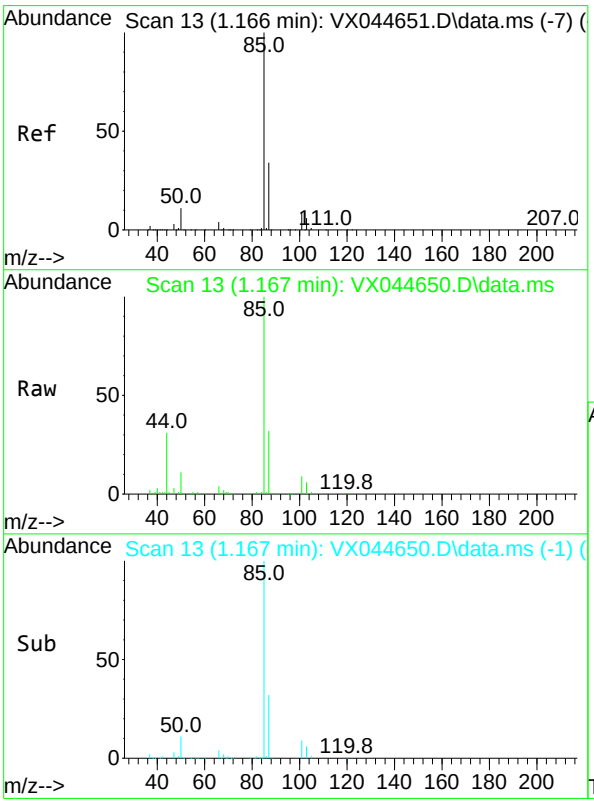
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 67.7 | 51.1 | 76.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

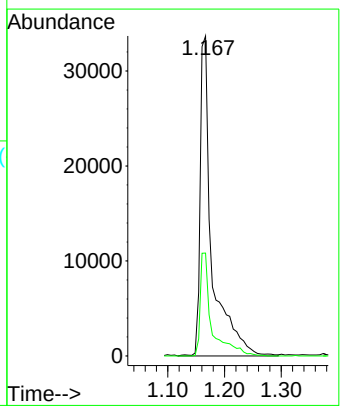
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

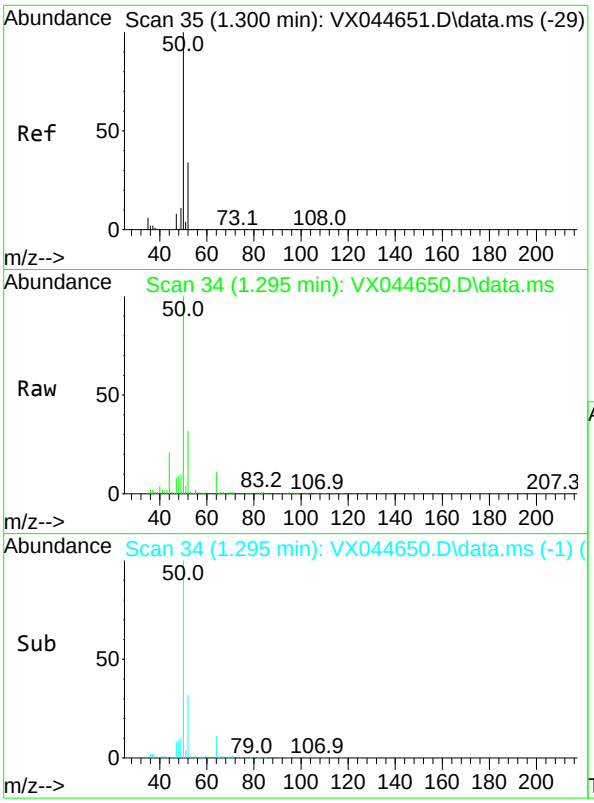



#2
Dichlorodifluoromethane
Concen: 19.052 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 85 Resp: 48623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.1 | 16.8 | 50.4 |

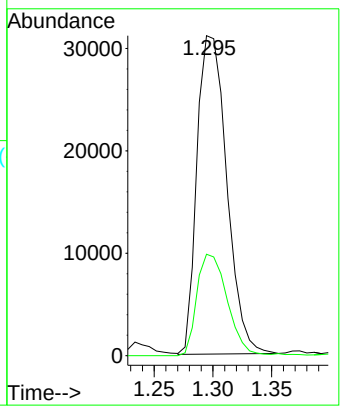





#3
Chloromethane
Concen: 19.866 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 50 Resp: 5482

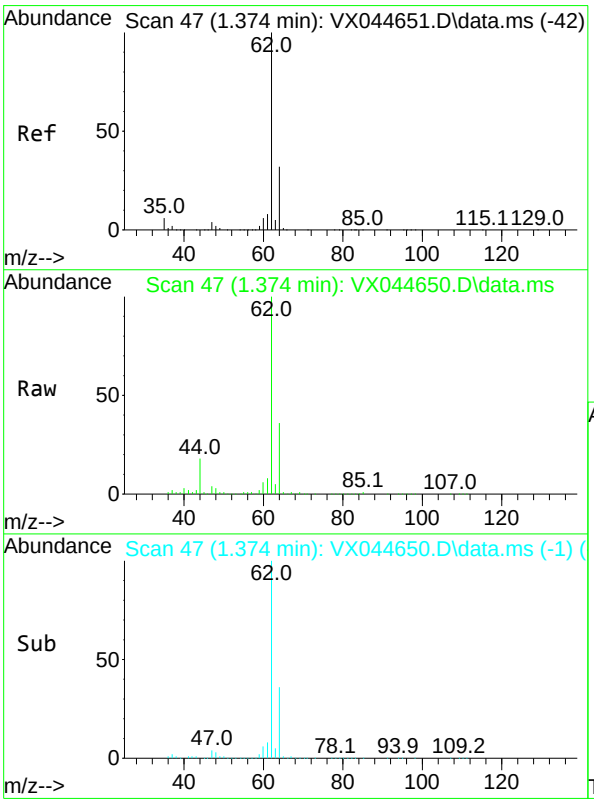
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.9 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

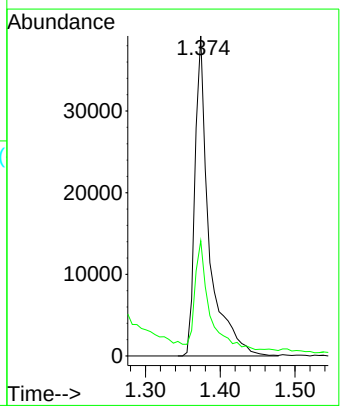
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

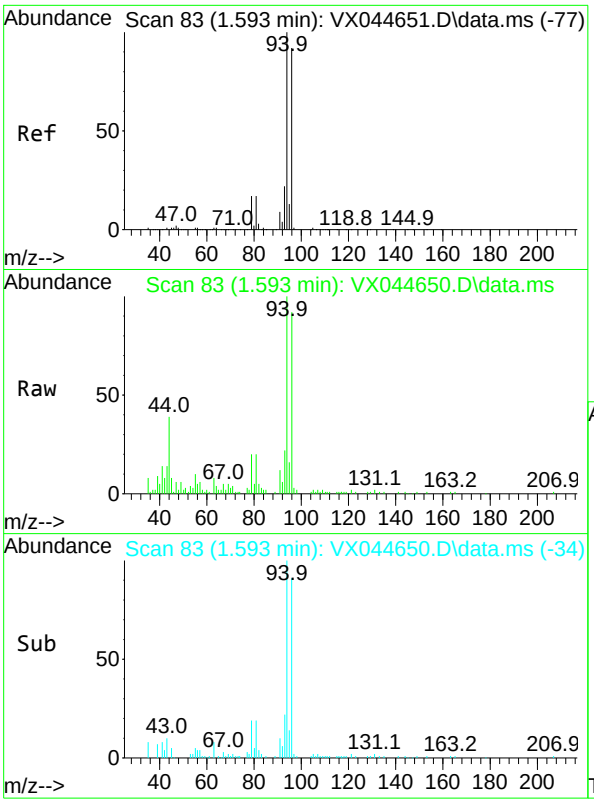



#4
Vinyl Chloride
Concen: 18.955 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 62 Resp: 51689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.3 | 26.6 | 39.8 |

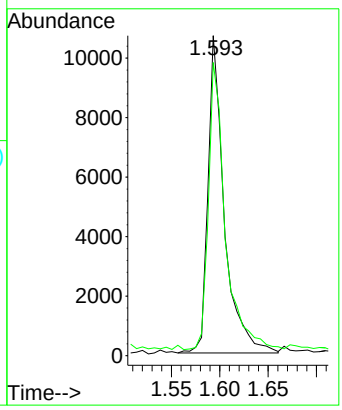





#5
Bromomethane
Concen: 19.333 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 94 Resp: 1258

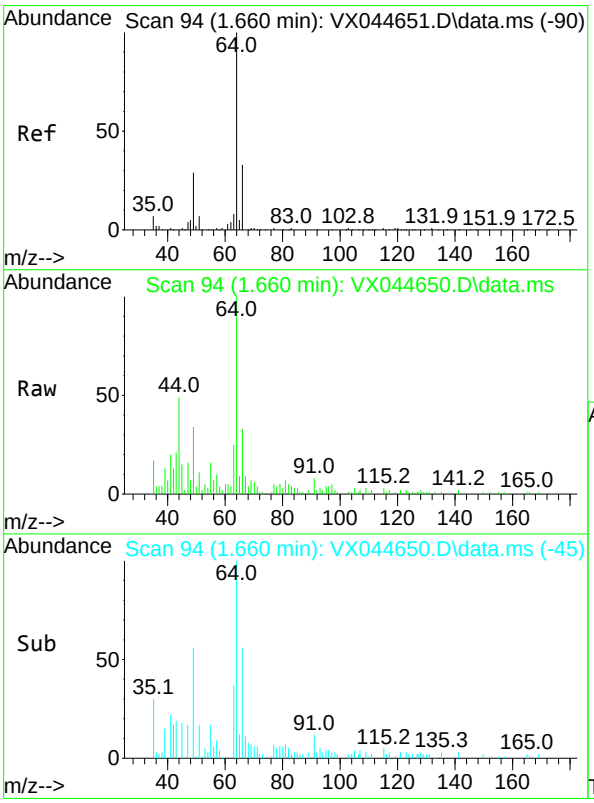
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.5 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

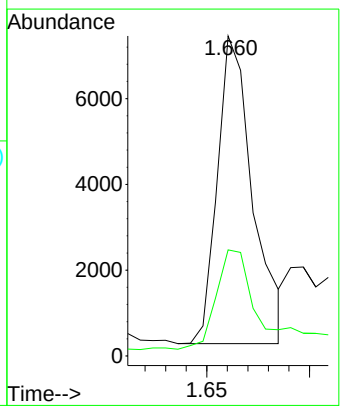
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

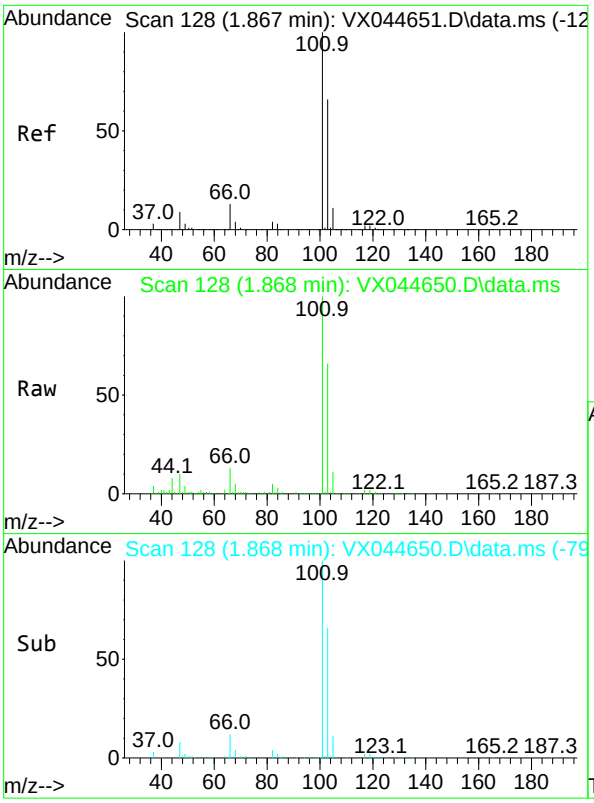



#6
Chloroethane
Concen: 17.150 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 64 Resp: 8576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.3 | 26.6 | 39.8 |

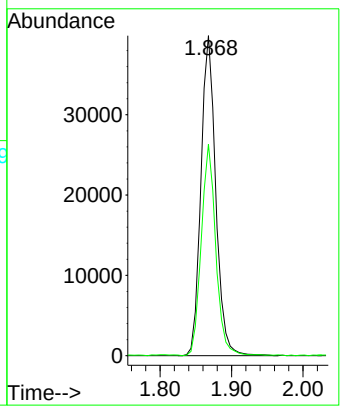





#7
Trichlorofluoromethane
Concen: 19.017 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:101 Resp: 5731

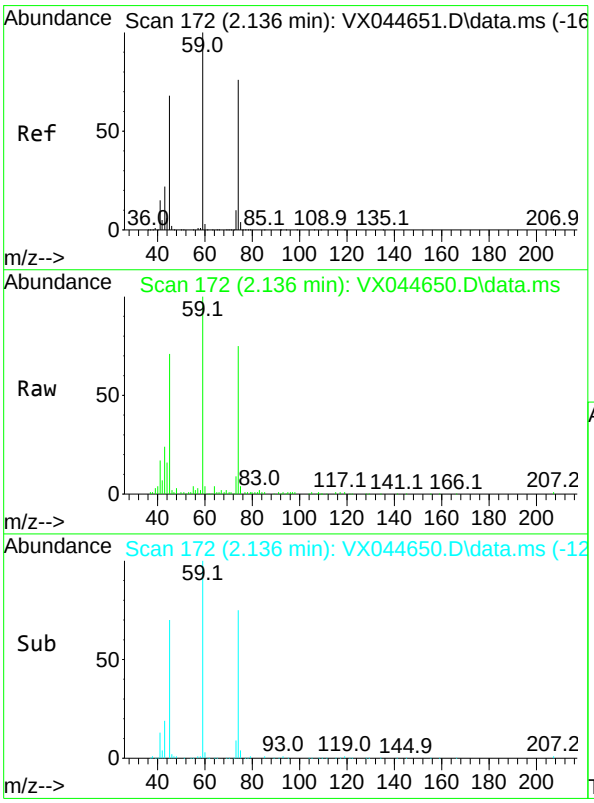
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.9 | 52.5 | 78.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

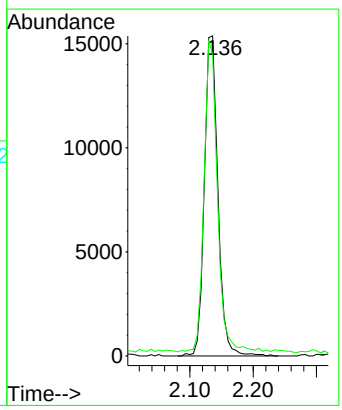
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

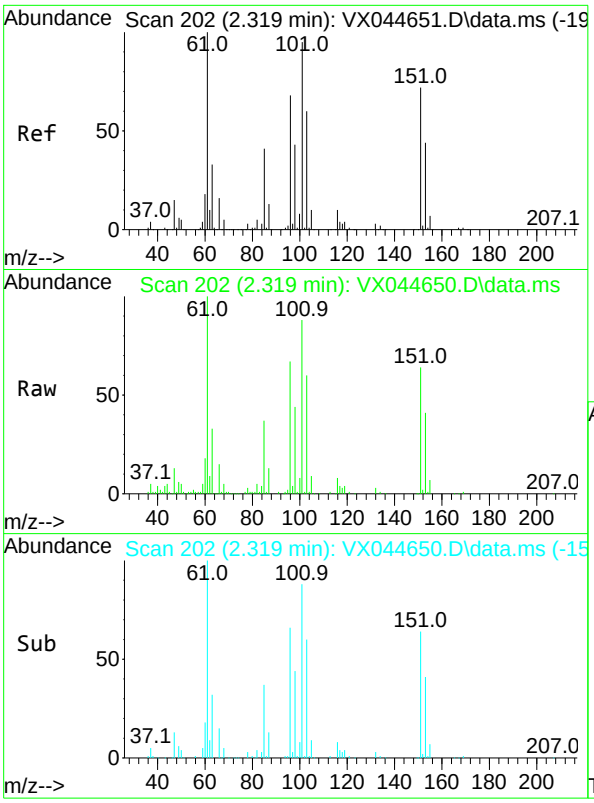



#8
Diethyl Ether
Concen: 18.934 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 74 Resp: 23029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 95.7 | 47.1 | 141.3 |

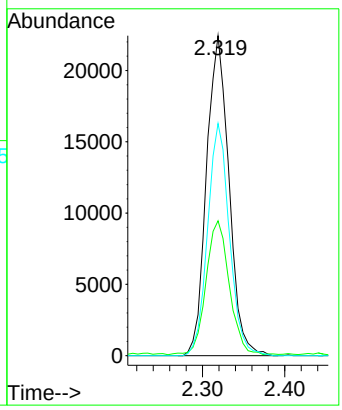





#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.807 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:101 Resp: 4260

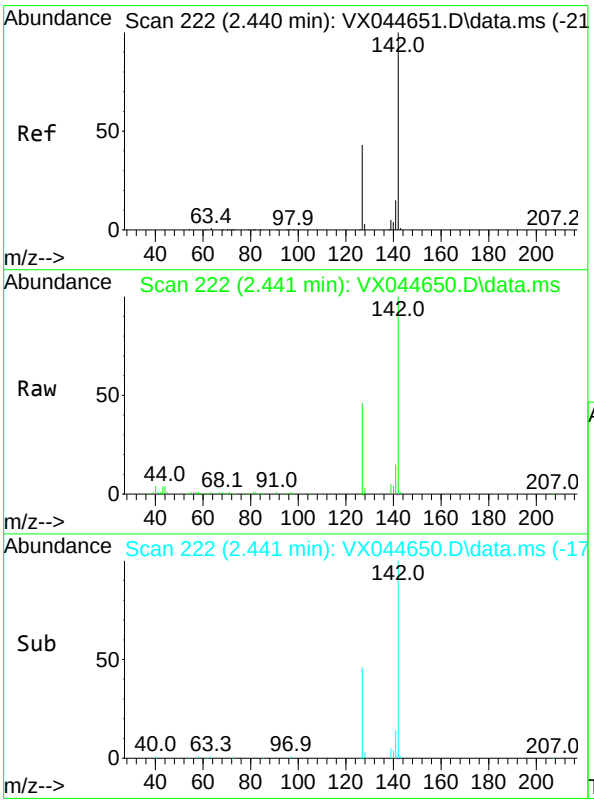
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.3 | 35.3 | 52.9 |
| 151 | 70.4 | 58.2 | 87.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

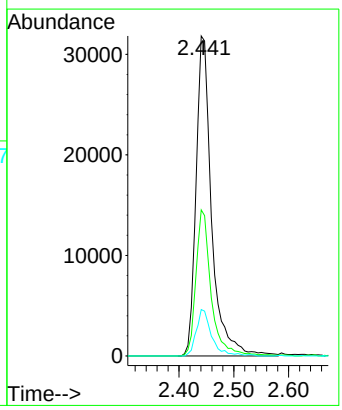
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

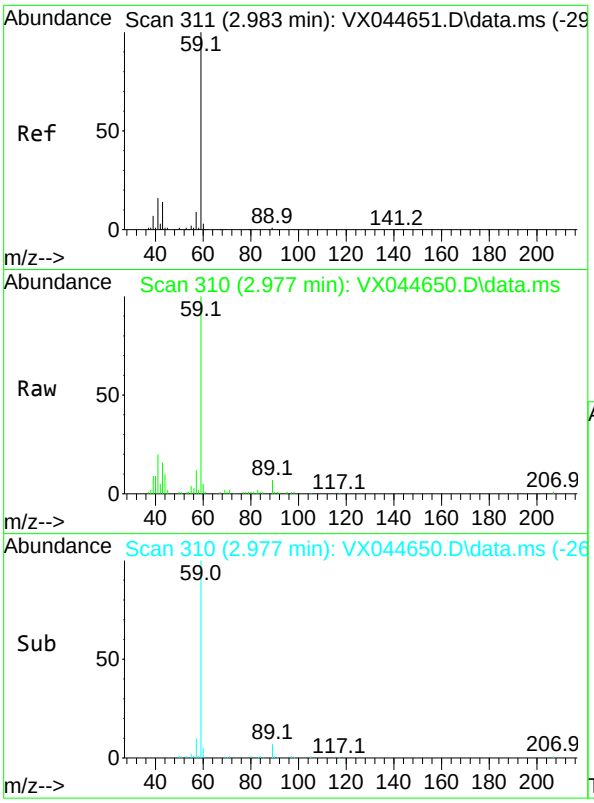



#10
Methyl Iodide
Concen: 20.401 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:142 Resp: 63102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.6 | 35.0 | 52.4 |
| 141 | 14.2 | 11.7 | 17.5 |

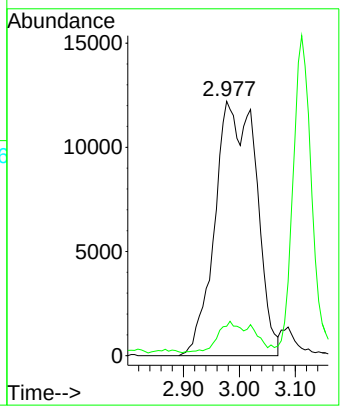





#11
Tert butyl alcohol
Concen: 96.990 ug/l m
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 59 Resp: 6261

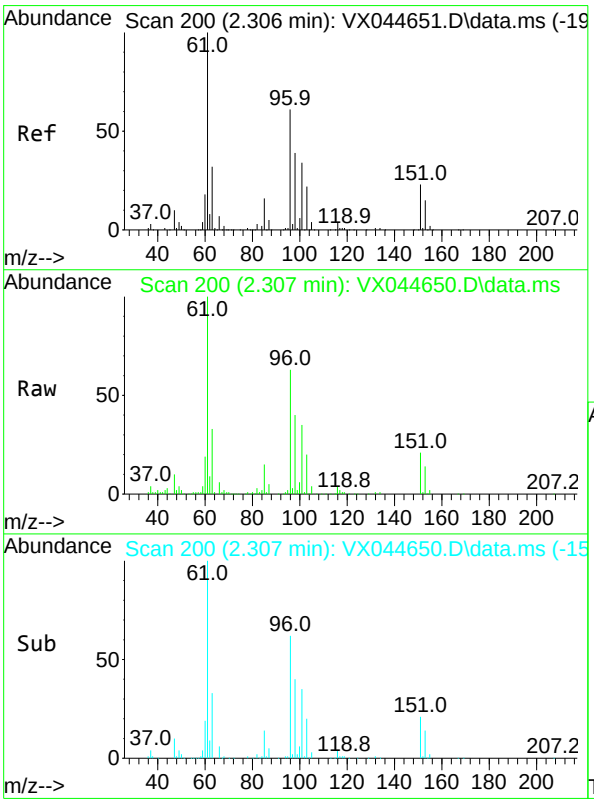
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 6.9 | 3.9 | 5.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

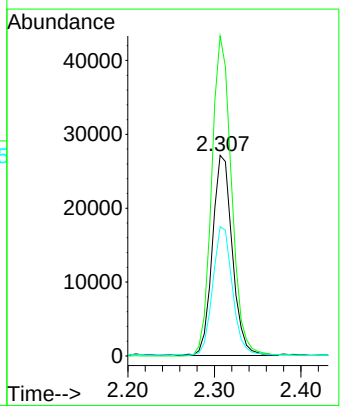
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

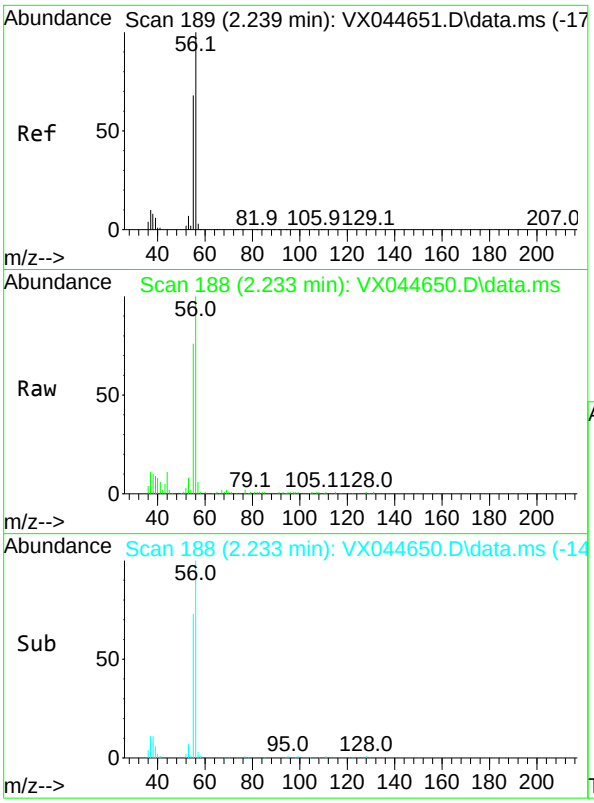



#12
1,1-Dichloroethene
Concen: 19.547 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 96 Resp: 43408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 159.8 | 131.1 | 196.7 |
| 98 | 63.9 | 51.2 | 76.8 |

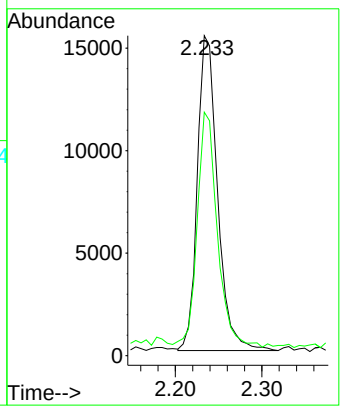





#13
Acrolein
Concen: 82.949 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 56 Resp: 2491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.5 | 55.1 | 82.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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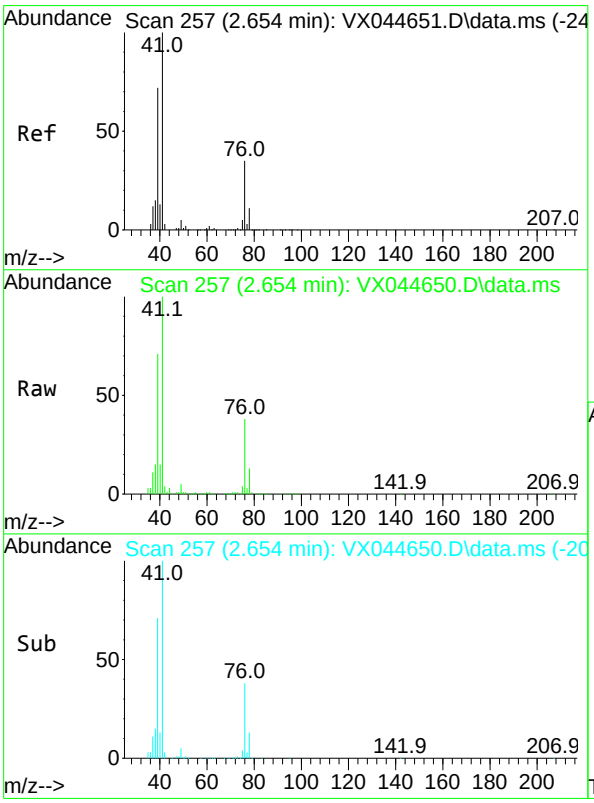
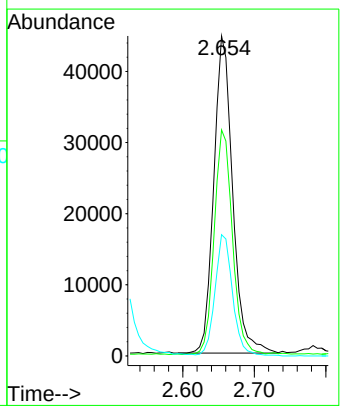
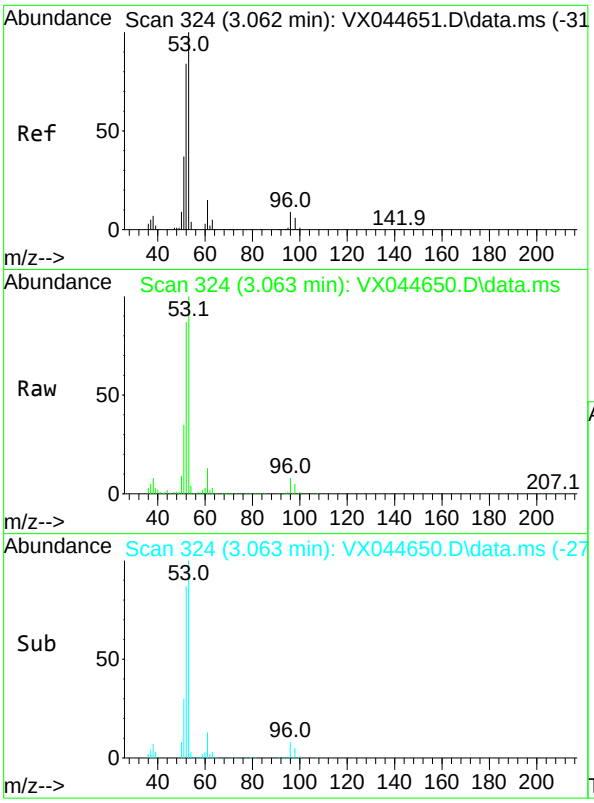



#14
Allyl chloride
Concen: 18.911 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 41 Resp: 81766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.5 | 54.9 | 82.3 |
| 76 | 35.8 | 28.4 | 42.6 |

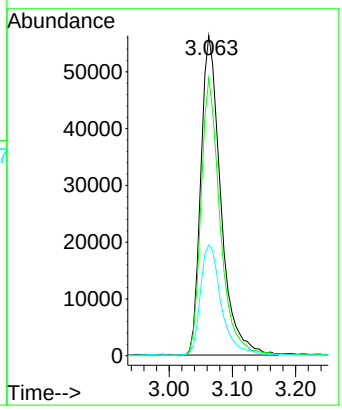





#15
Acrylonitrile
Concen: 98.515 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 53 Resp: 12331

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.1 | 66.0 | 99.0 |
| 51 | 36.7 | 28.9 | 43.3 |




**Instrument :**
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VSTDICC020

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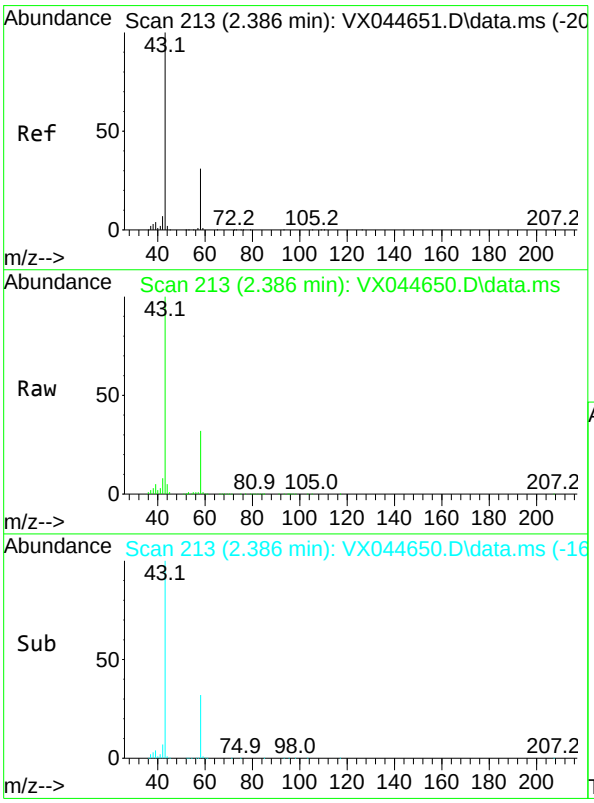
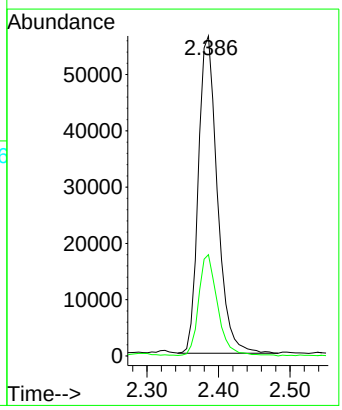
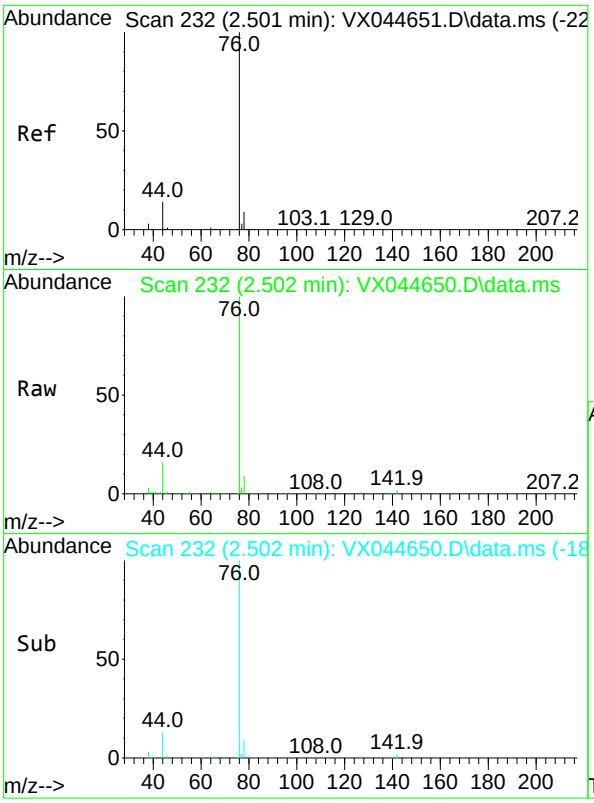



#16
Acetone
Concen: 91.678 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 103836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.9 | 24.6 | 37.0 |






#17
Carbon Disulfide
Concen: 19.662 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 76 Resp: 11914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.1 | 10.7 |

**Instrument :**
MSVOA_X
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VSTDICC020

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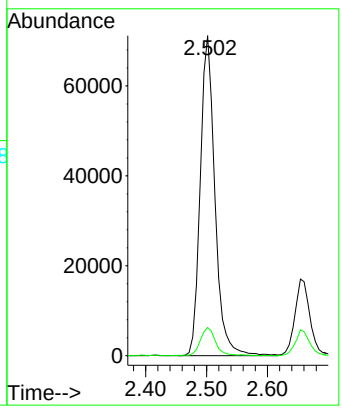
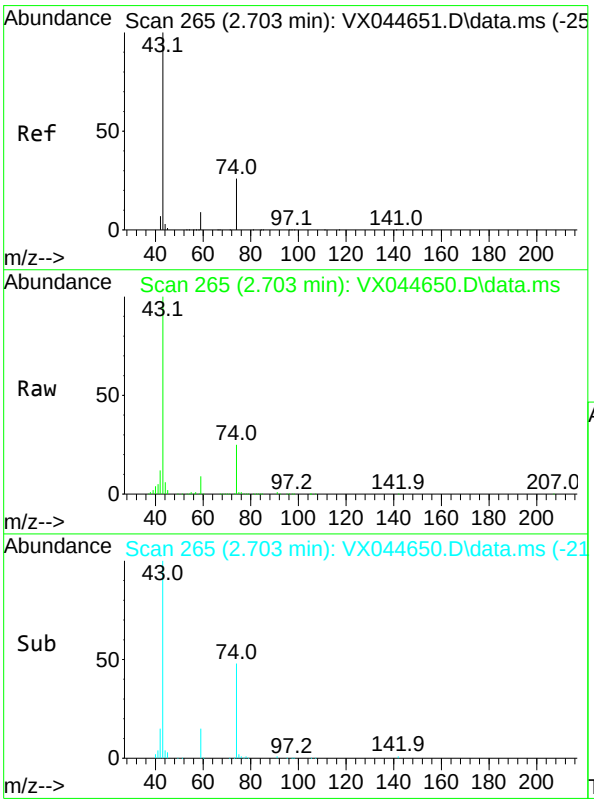
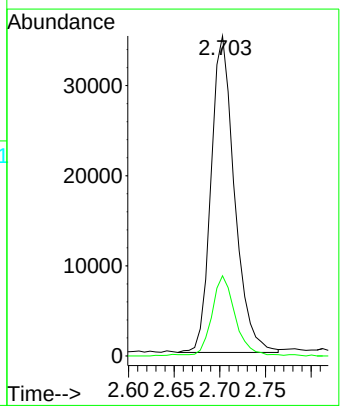


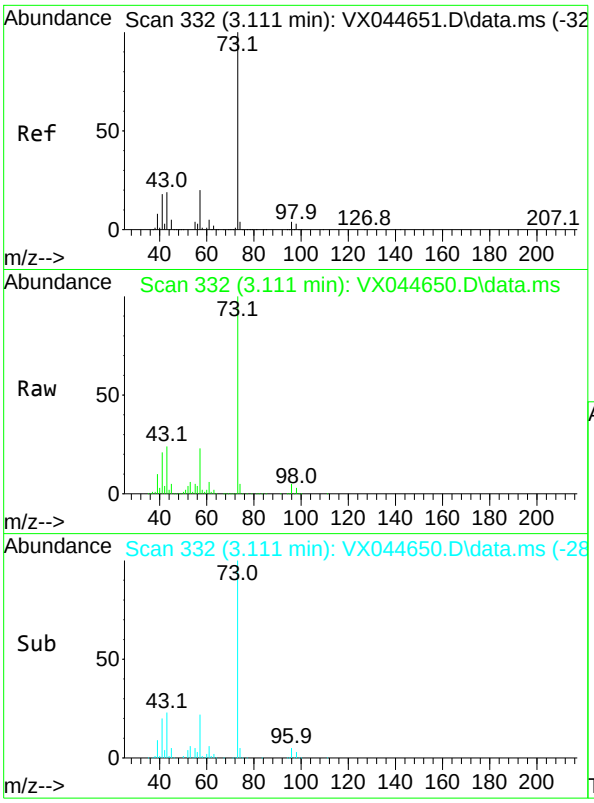




#18
Methyl Acetate
Concen: 17.939 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 62684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.3 | 19.8 | 29.8 |

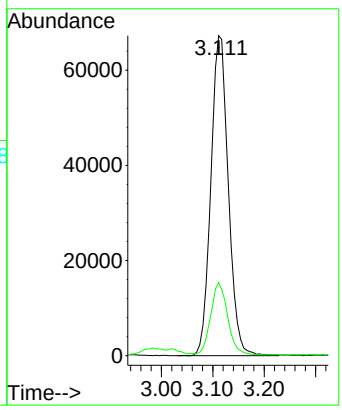





#19
Methyl tert-butyl Ether
Concen: 19.718 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 73 Resp: 15860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.5 | 17.4 | 26.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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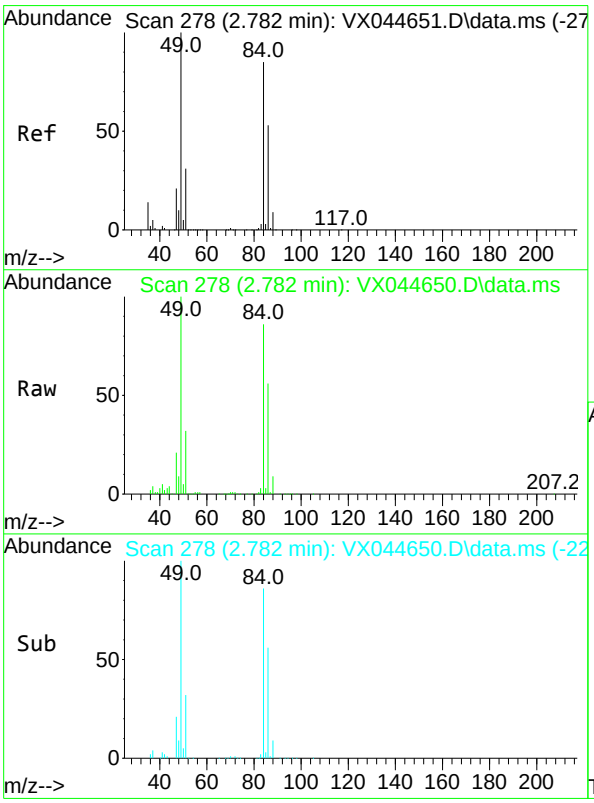
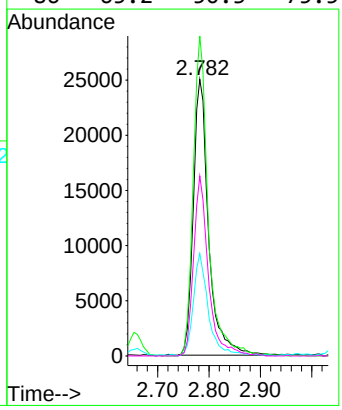
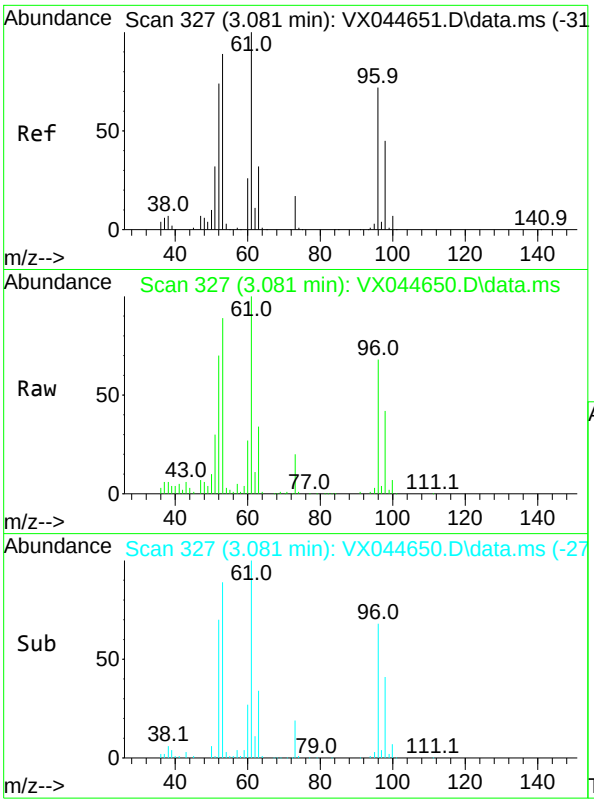



#20
Methylene Chloride
Concen: 19.623 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 84 Resp: 51758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 116.0 | 94.2 | 141.4 |
| 51 | 37.1 | 28.8 | 43.2 |
| 86 | 65.2 | 50.3 | 75.5 |

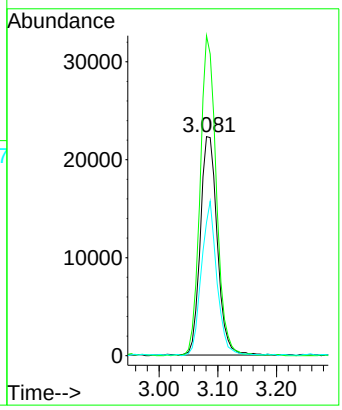





#21
trans-1,2-Dichloroethene
Concen: 19.317 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 96 Resp: 4478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.2 | 111.0 | 166.6 |
| 98 | 61.0 | 50.2 | 75.2 |




**Instrument :**
MSVOA_X
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VSTDICC020

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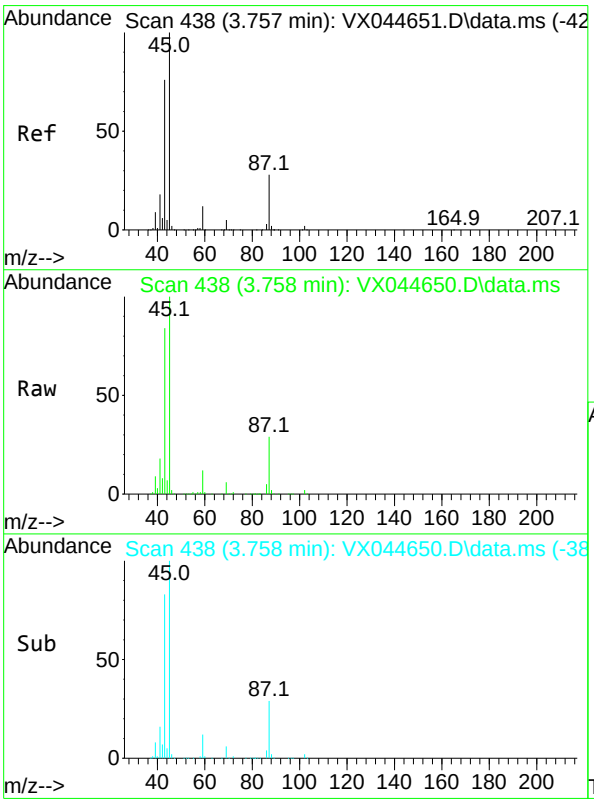
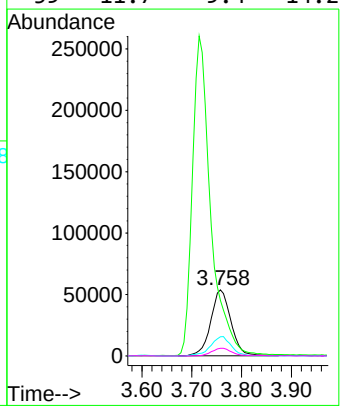
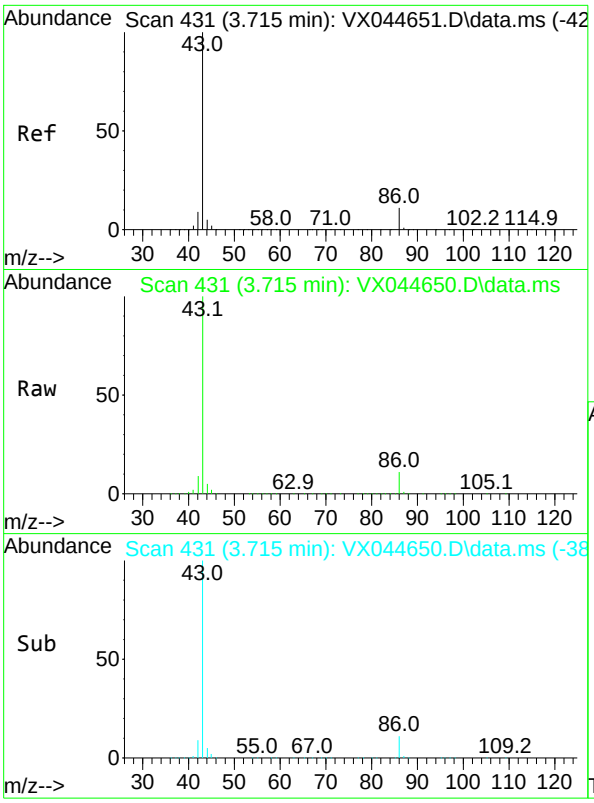



#22
Diisopropyl ether
Concen: 20.095 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 45 Resp: 151033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 83.3 | 61.0 | 91.6 |
| 87 | 29.1 | 22.7 | 34.1 |
| 59 | 11.7 | 9.4 | 14.2 |






#23
Vinyl Acetate
Concen: 101.337 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 66664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 8.9 | 13.3 |

**Instrument :**
MSVOA_X
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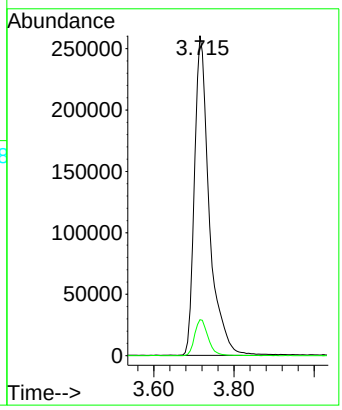
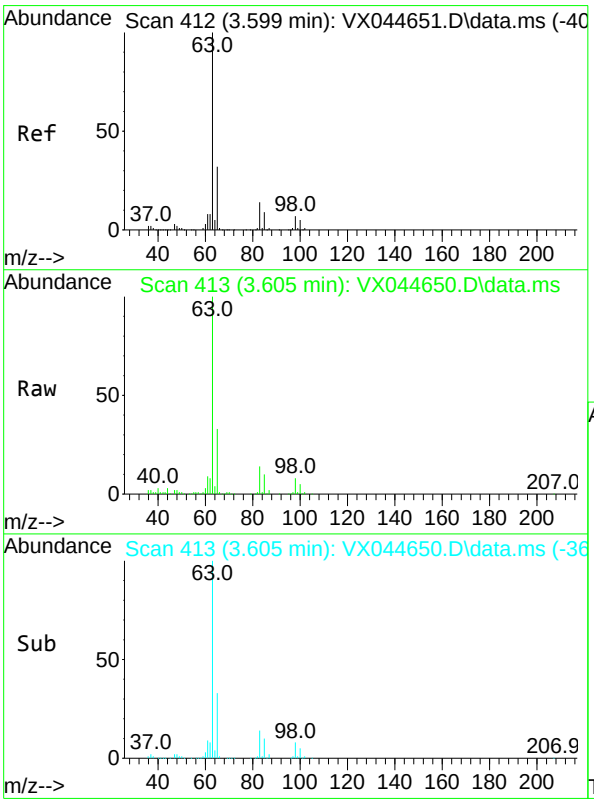
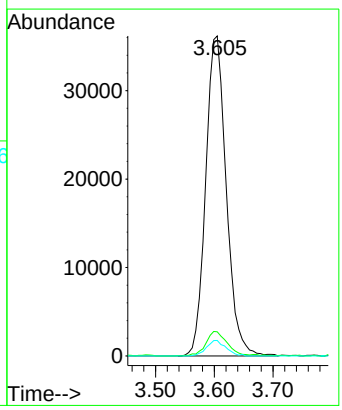


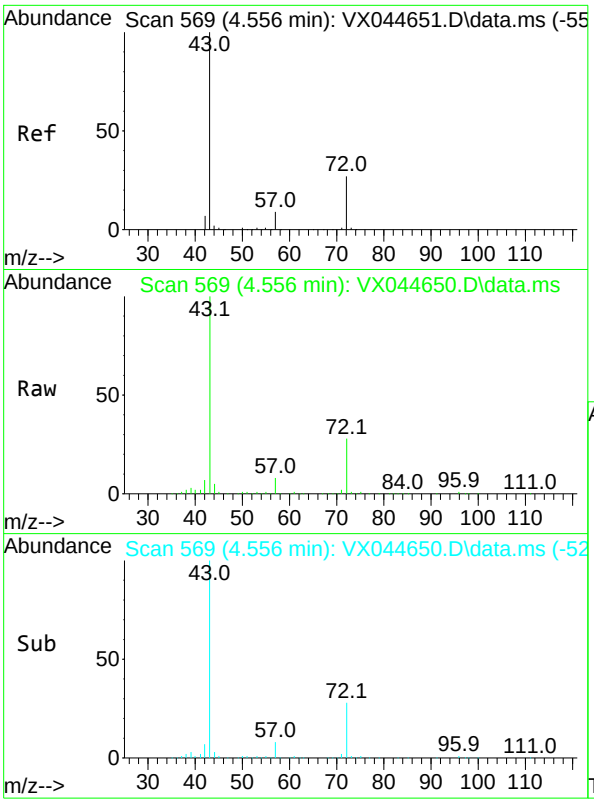




#24
1,1-Dichloroethane
Concen: 19.758 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 63 Resp: 88060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.6 | 10.9 |
| 100 | 4.8 | 2.5 | 7.5 |

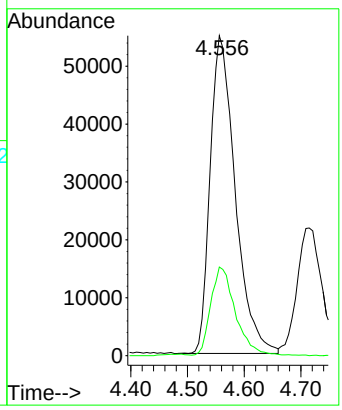





#25
2-Butanone
Concen: 99.946 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 16830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.5 | 21.7 | 32.5 |

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MSVOA_X
**ClientSampleId :**
VSTDICC020

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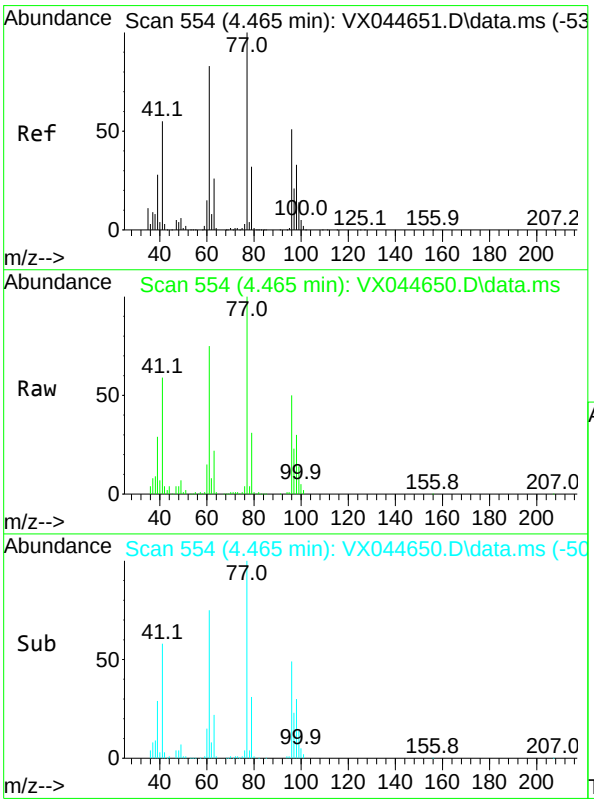
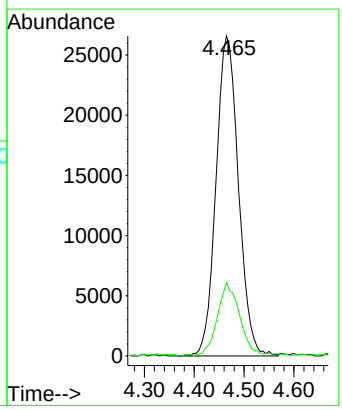
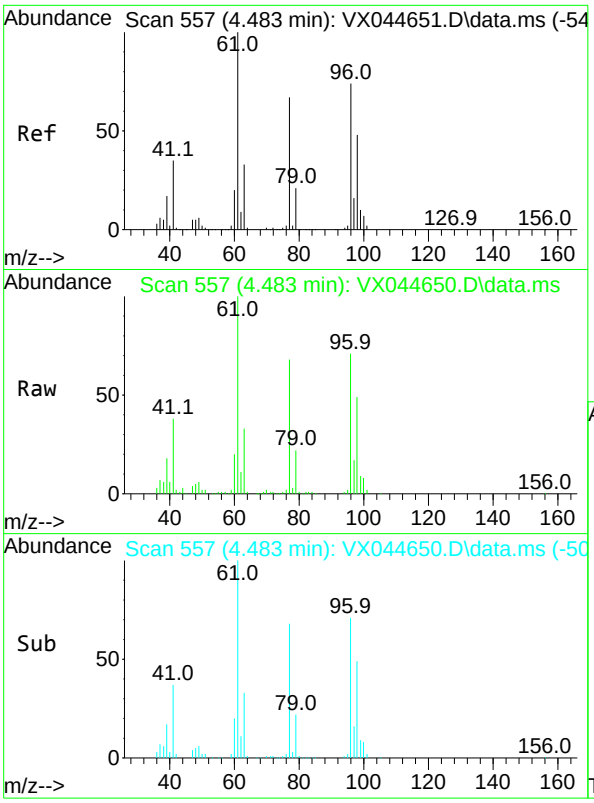



#26
2,2-Dichloropropane
Concen: 19.209 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 77 Resp: 82977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.3 | 10.9 | 32.6 |

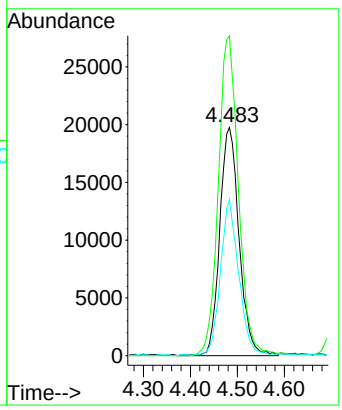





#27
cis-1,2-Dichloroethene
Concen: 19.406 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 96 Resp: 5659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 145.5 | 0.0 | 296.0 |
| 98 | 65.0 | 0.0 | 130.0 |

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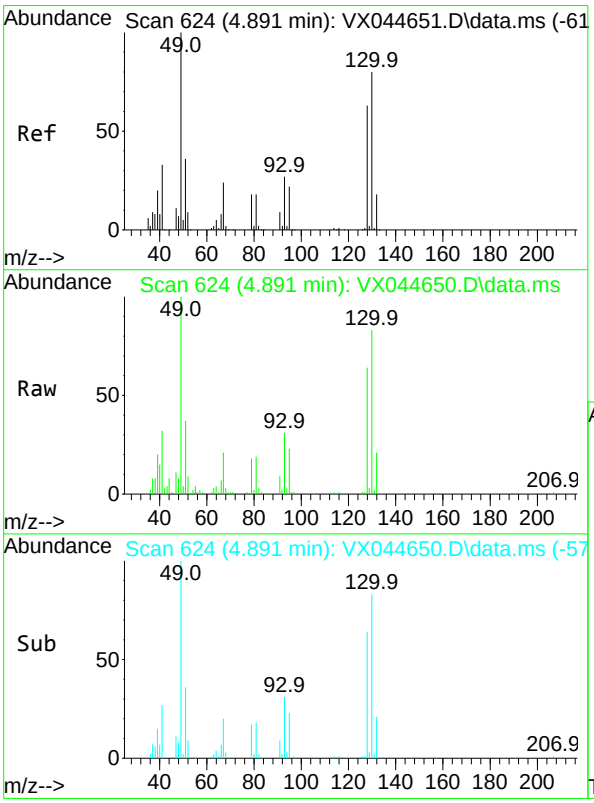
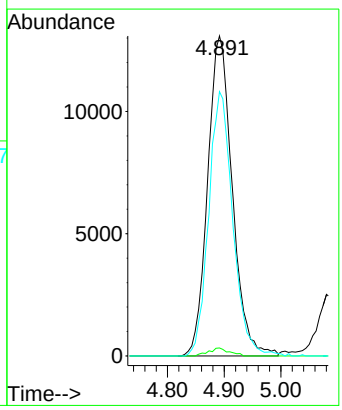
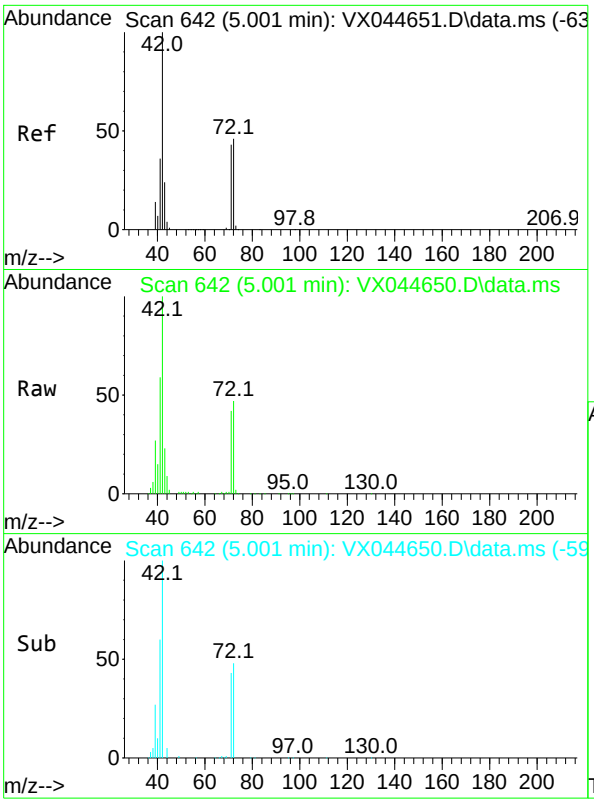



#28
Bromochloromethane
Concen: 18.978 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 49 Resp: 39526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.4 |
| 130 | 80.8 | 63.4 | 95.2 |

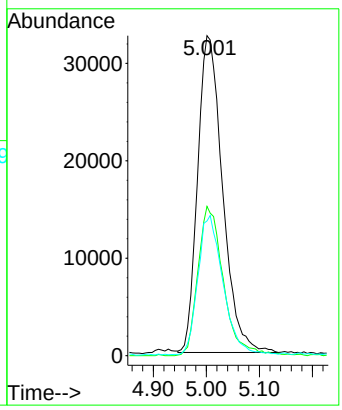





#29
Tetrahydrofuran
Concen: 97.807 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 42 Resp: 10624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.2 | 38.2 | 57.4 |
| 71 | 44.0 | 35.3 | 52.9 |




**Instrument :**
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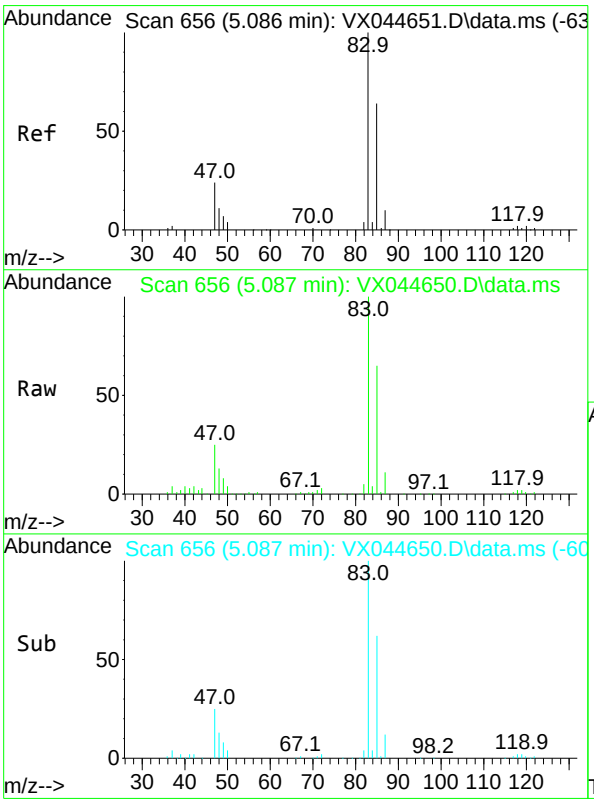
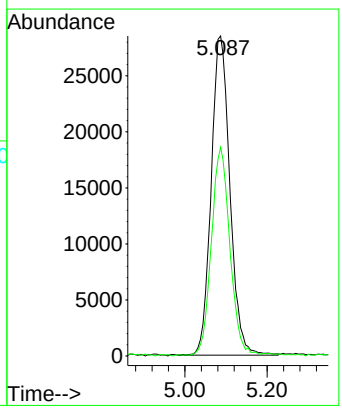
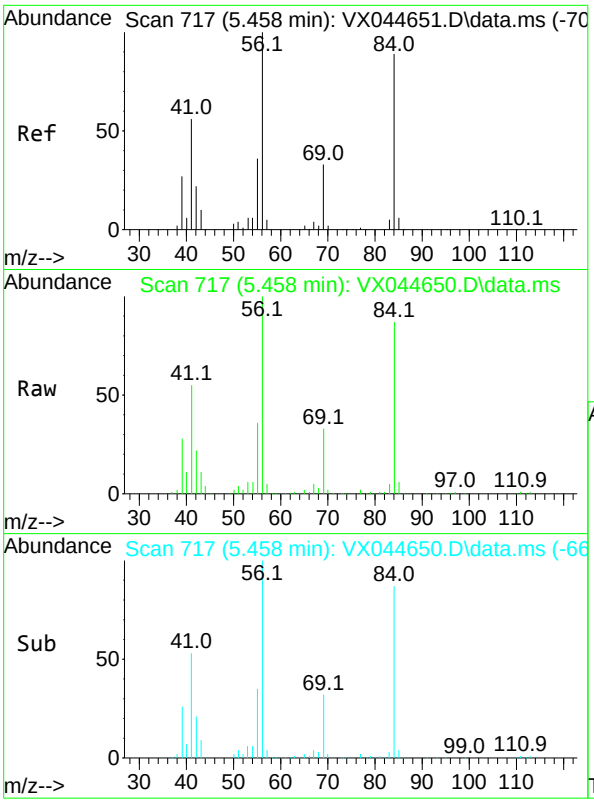



#30
Chloroform
Concen: 19.985 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 83 Resp: 89891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 51.2 | 76.8 |

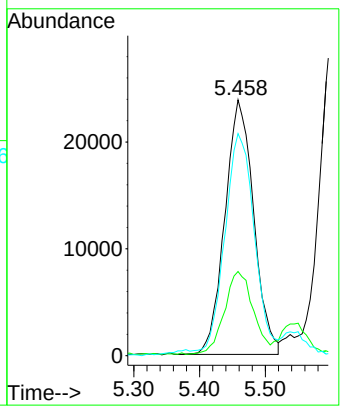





#31
Cyclohexane
Concen: 20.120 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 56 Resp: 7252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.5 | 26.8 | 40.2 |
| 84 | 85.4 | 71.0 | 106.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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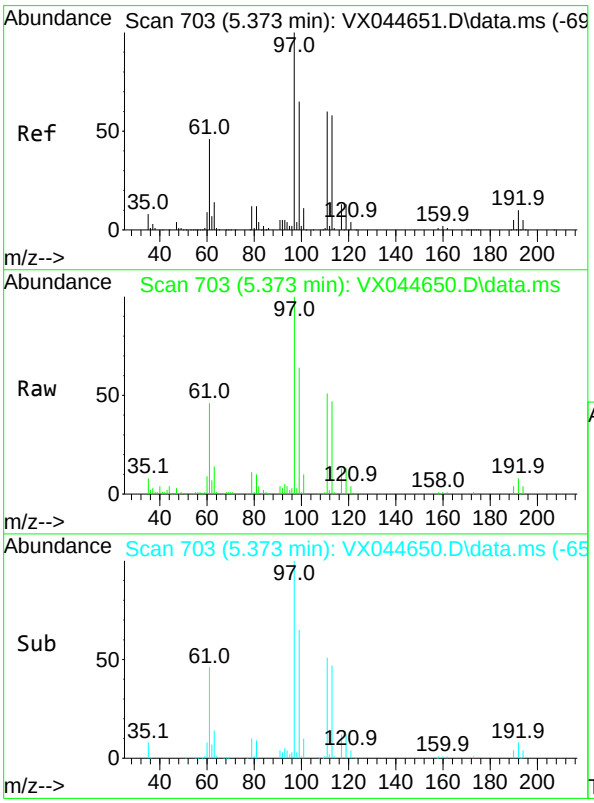
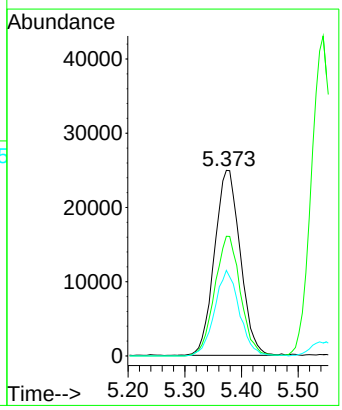
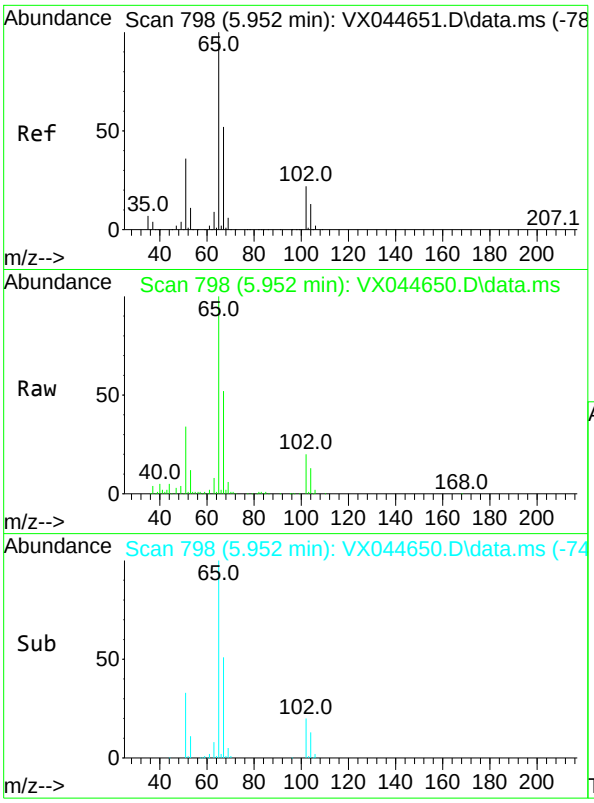



#32
1,1,1-Trichloroethane
Concen: 19.019 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 97 Resp: 78644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.6 | 77.4 |
| 61 | 44.6 | 35.6 | 53.4 |

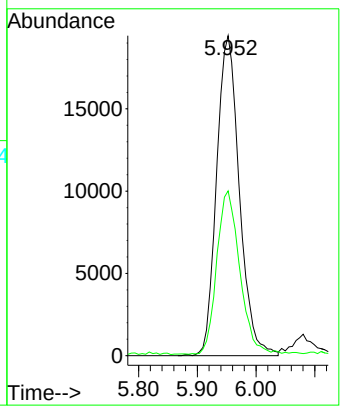





#33
1,2-Dichloroethane-d4
Concen: 18.311 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 65 Resp: 5242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.5 | 0.0 | 103.4 |

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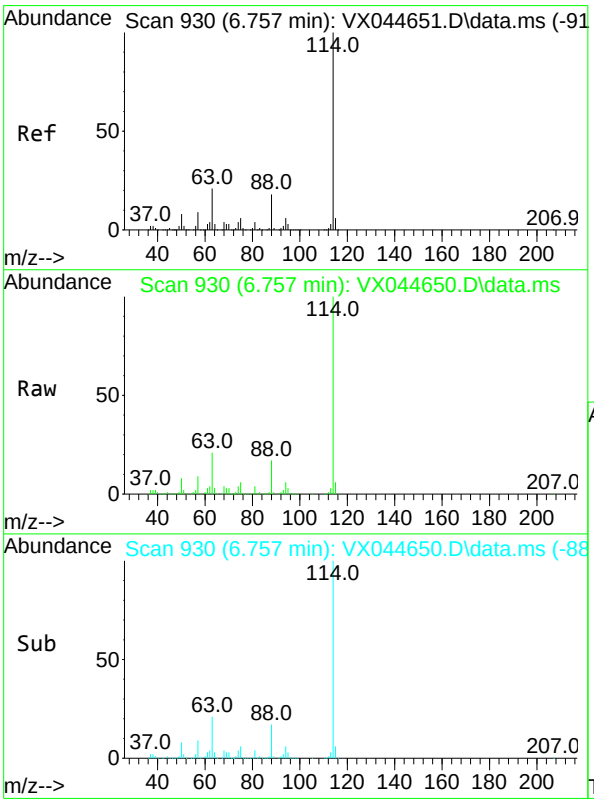
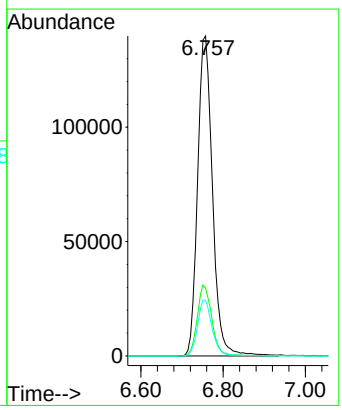
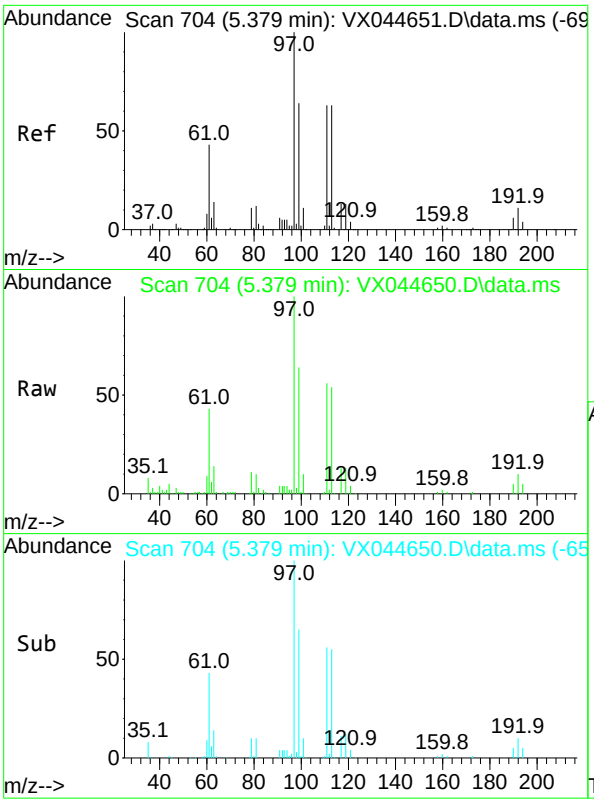



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:114 Resp: 351528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.2 | 0.0 | 43.0 |
| 88 | 17.4 | 0.0 | 35.4 |

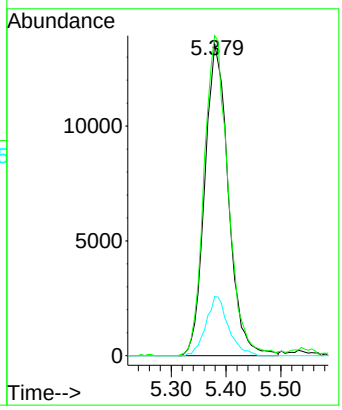





#35
Dibromofluoromethane
Concen: 18.173 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:113 Resp: 4058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.7 | 81.6 | 122.4 |
| 192 | 18.0 | 14.4 | 21.6 |

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VSTDICC020

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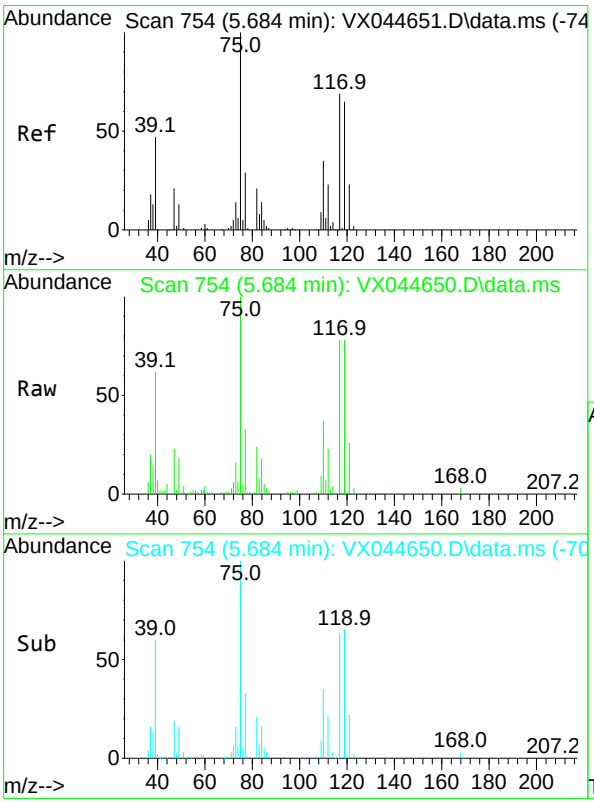
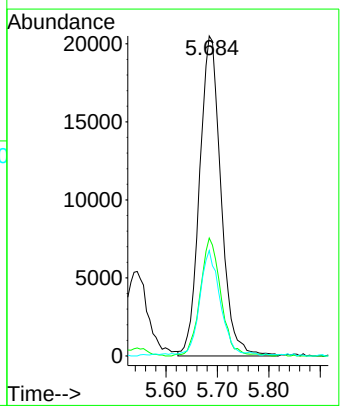
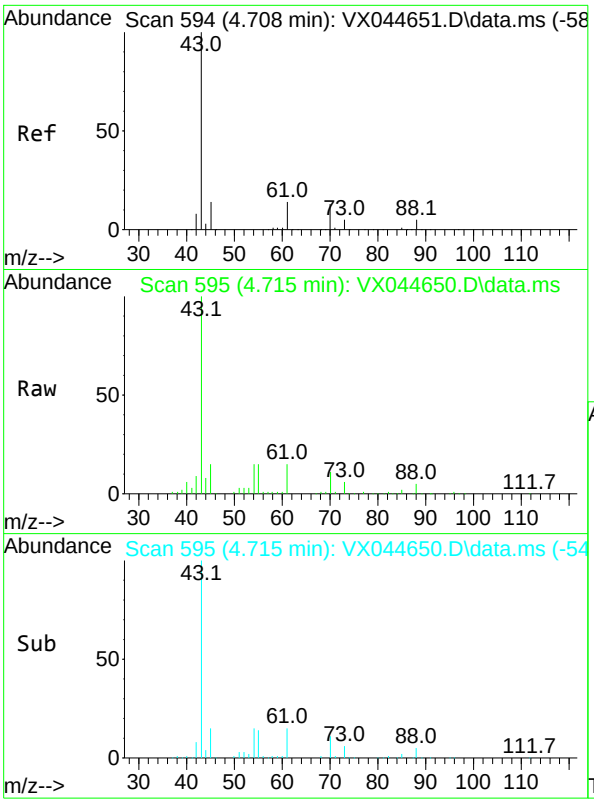



#36
1,1-Dichloropropene
Concen: 19.076 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 75 Resp: 59303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.8 | 17.9 | 53.8 |
| 77 | 29.8 | 24.5 | 36.7 |

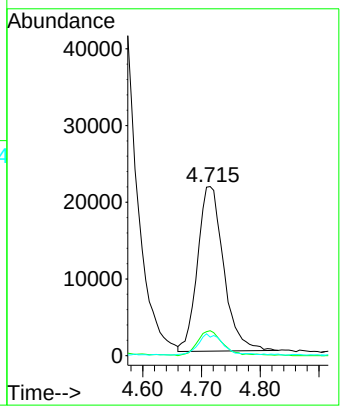





#37
Ethyl Acetate
Concen: 20.034 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 6632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.0 | 10.9 | 16.3 |
| 70 | 12.0 | 10.1 | 15.1 |

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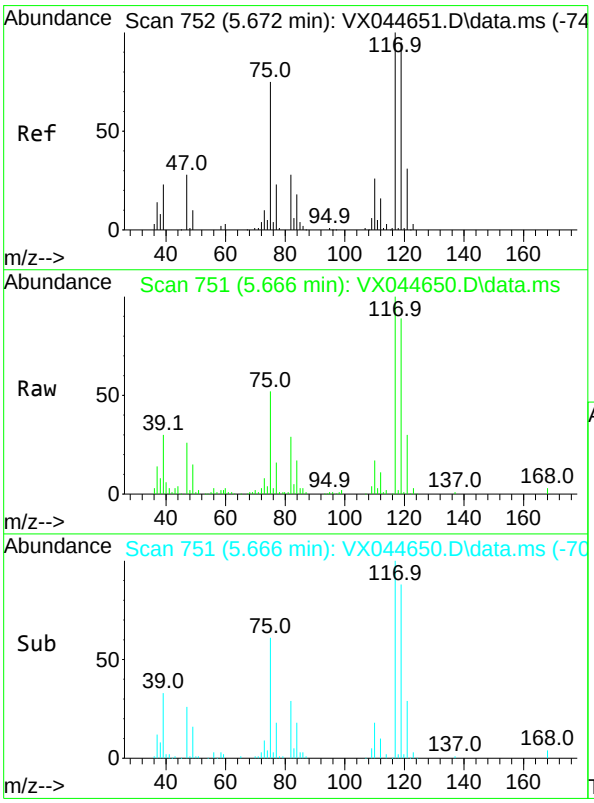
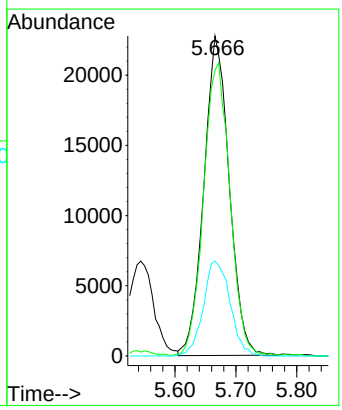
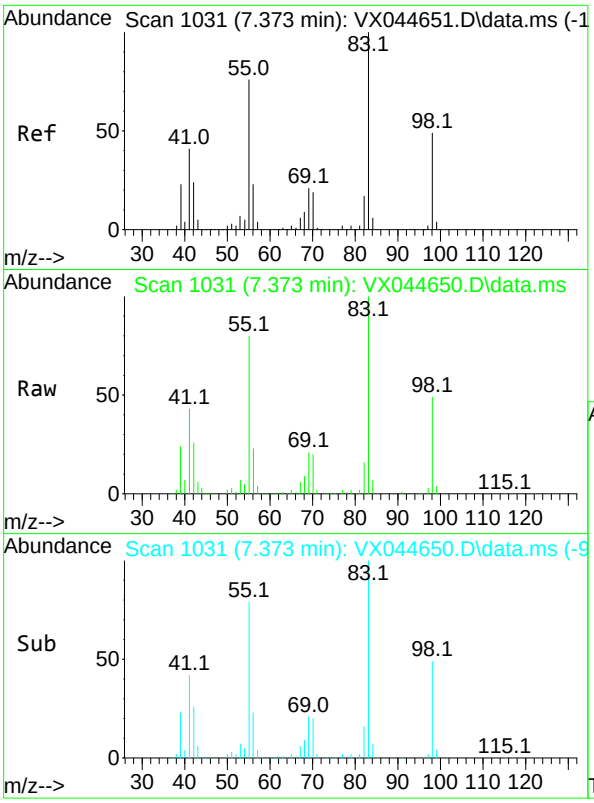



#38
Carbon Tetrachloride
Concen: 18.829 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:117 Resp: 65838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 89.1 | 76.0 | 114.0 |
| 121 | 29.7 | 24.6 | 36.8 |

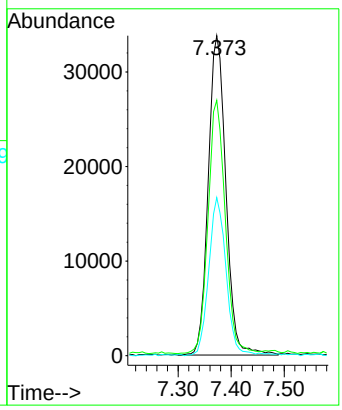





#39
Methylcyclohexane
Concen: 18.961 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 83 Resp: 7824

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 79.3 | 60.5 | 90.7 |
| 98 | 49.2 | 39.0 | 58.4 |

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VSTDICC020

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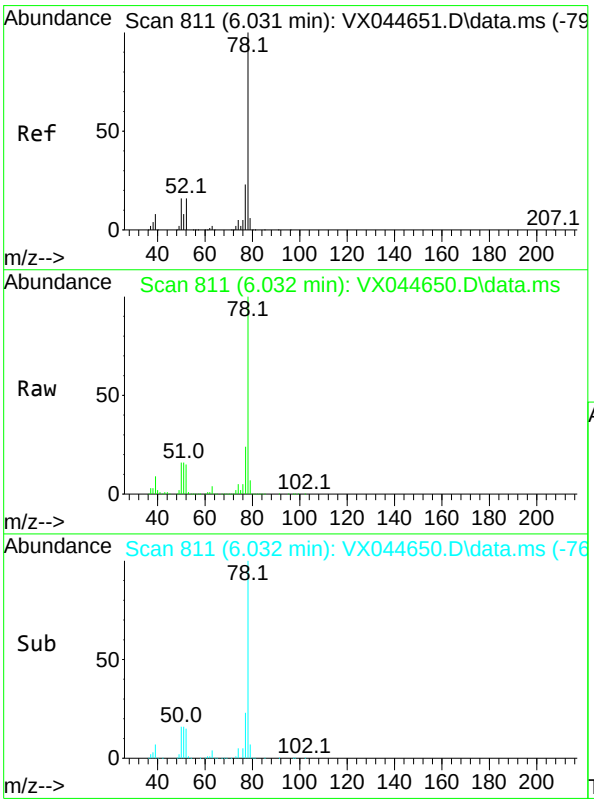
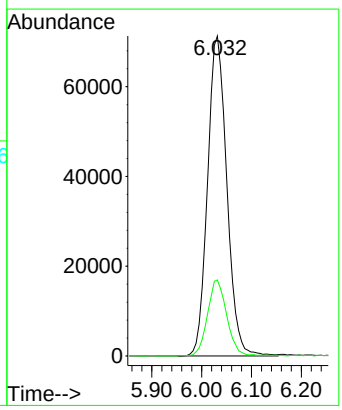
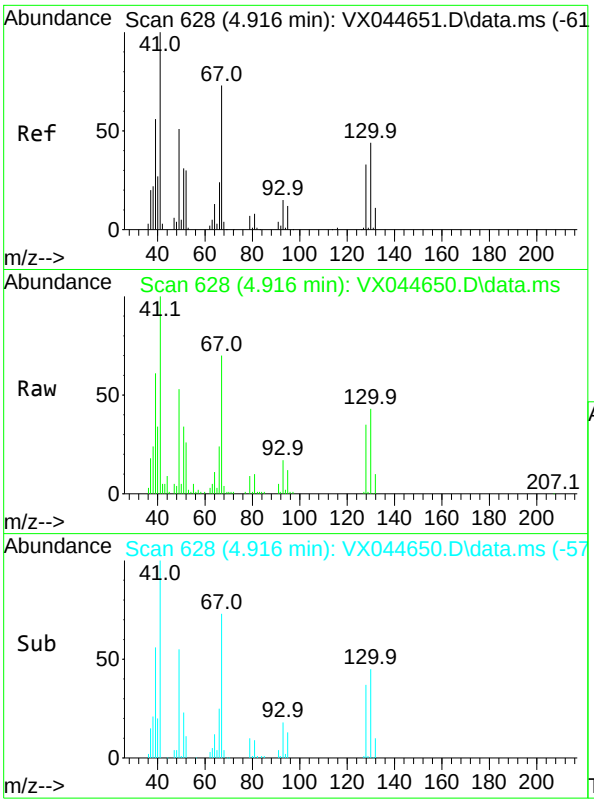



#40
Benzene
Concen: 19.911 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 78 Resp: 191801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.7 | 28.1 |

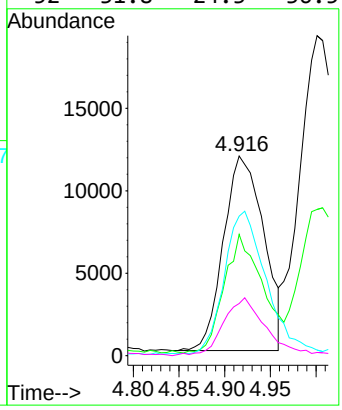





#41
Methacrylonitrile
Concen: 19.016 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 41 Resp: 3618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.8 | 44.4 | 66.6 |
| 67 | 75.9 | 60.6 | 90.8 |
| 52 | 31.8 | 24.3 | 36.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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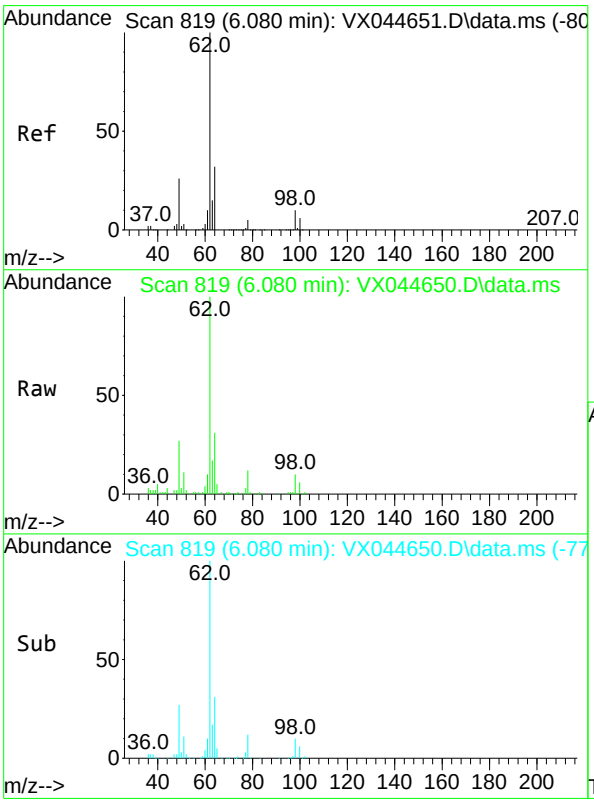
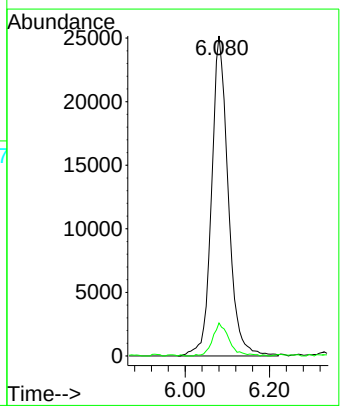
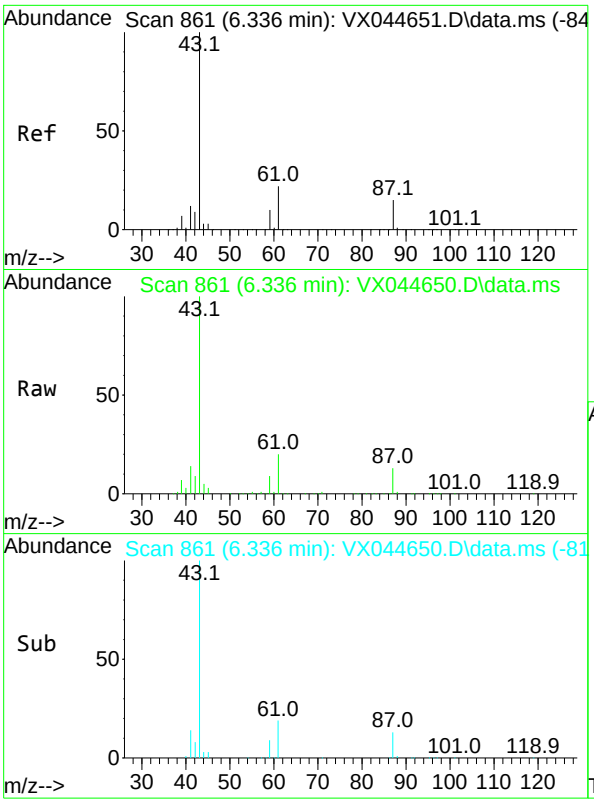



#42
1,2-Dichloroethane
Concen: 19.635 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 62 Resp: 69034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 19.4 |

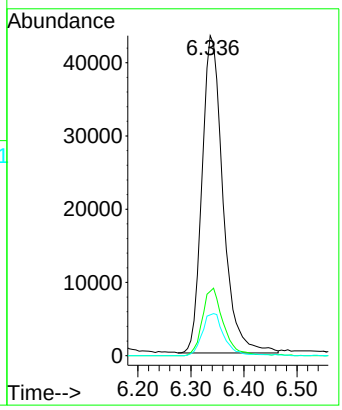





#43
Isopropyl Acetate
Concen: 19.633 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 11956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.1 | 16.6 | 24.8 |
| 87 | 13.5 | 11.0 | 16.6 |

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VSTDICC020

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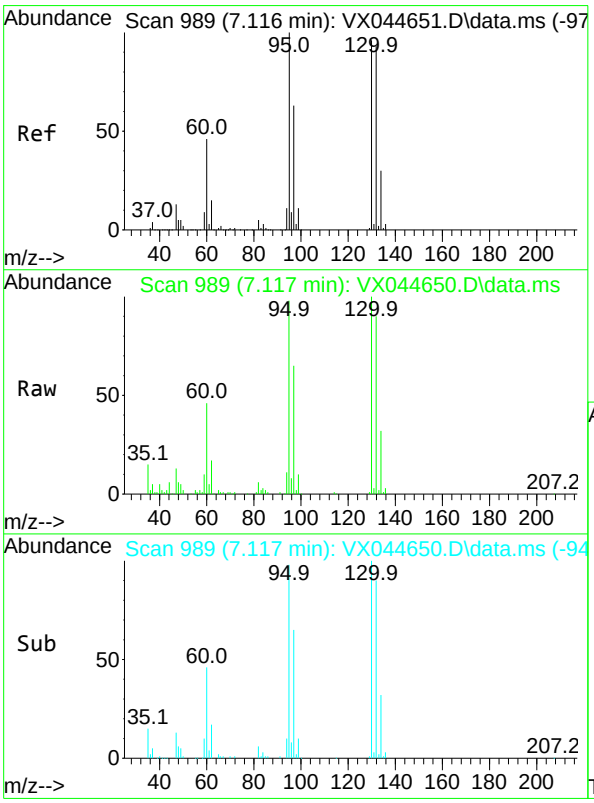
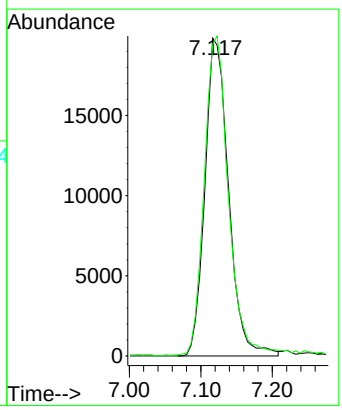
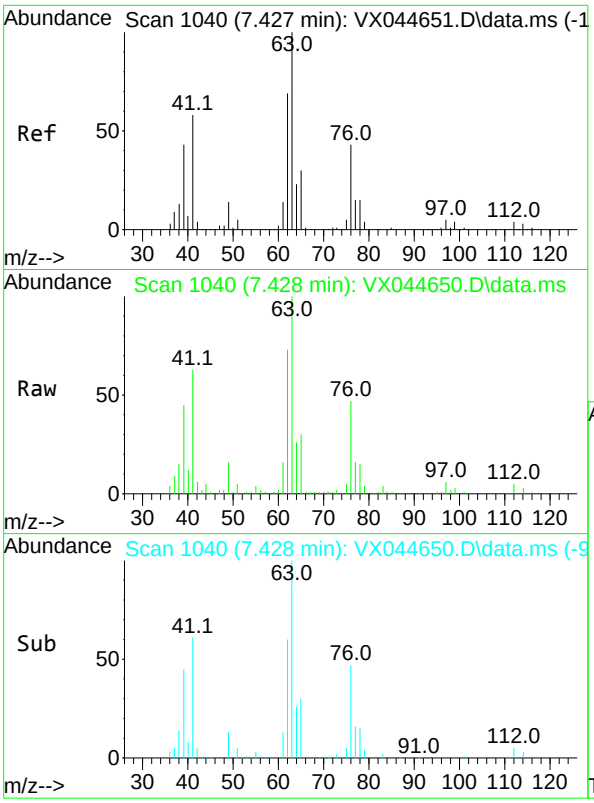



#44
Trichloroethene
Concen: 19.689 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:130 Resp: 45597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.7 | 0.0 | 208.2 |






#45
1,2-Dichloropropane
Concen: 19.429 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 63 Resp: 4711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.4 | 24.2 | 36.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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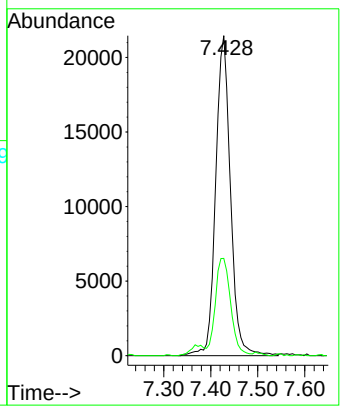
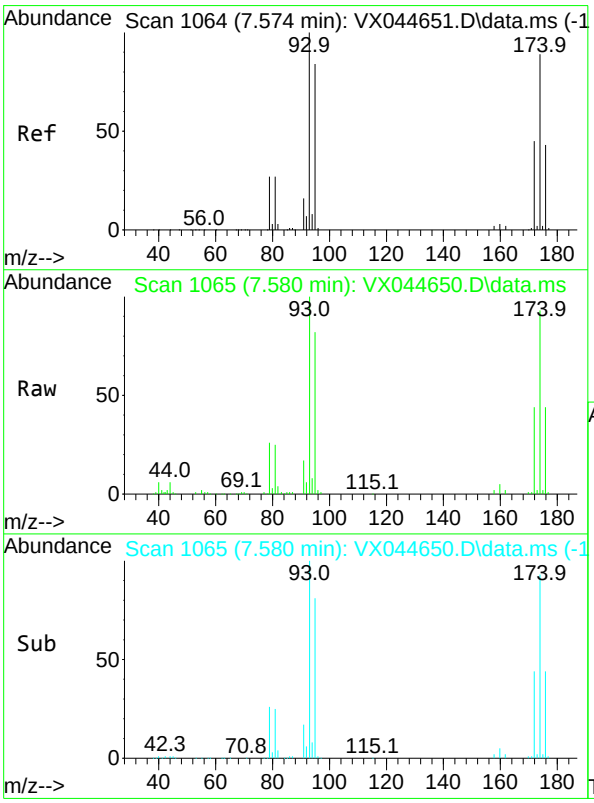
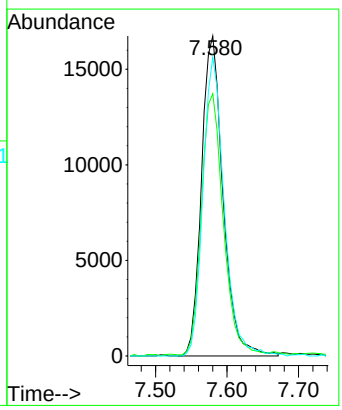


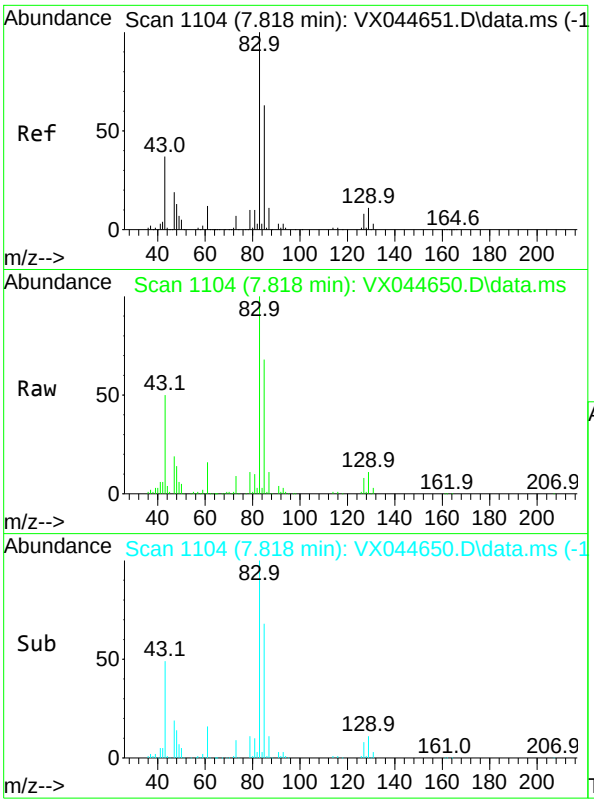




#46
Dibromomethane
Concen: 18.991 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 93 Resp: 35056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.3 | 66.4 | 99.6 |
| 174 | 92.1 | 72.0 | 108.0 |

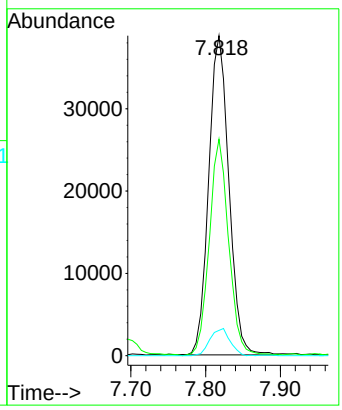





#47
Bromodichloromethane
Concen: 19.241 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 83 Resp: 7283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.6 | 50.1 | 75.1 |
| 127 | 7.9 | 6.5 | 9.7 |




**Instrument :**
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VSTDICC020

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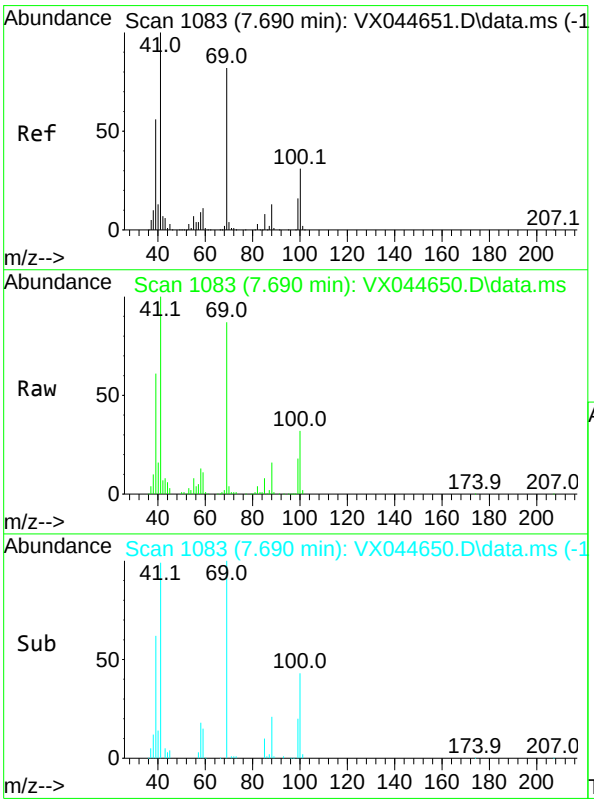
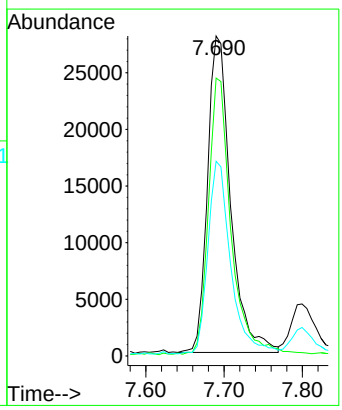
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

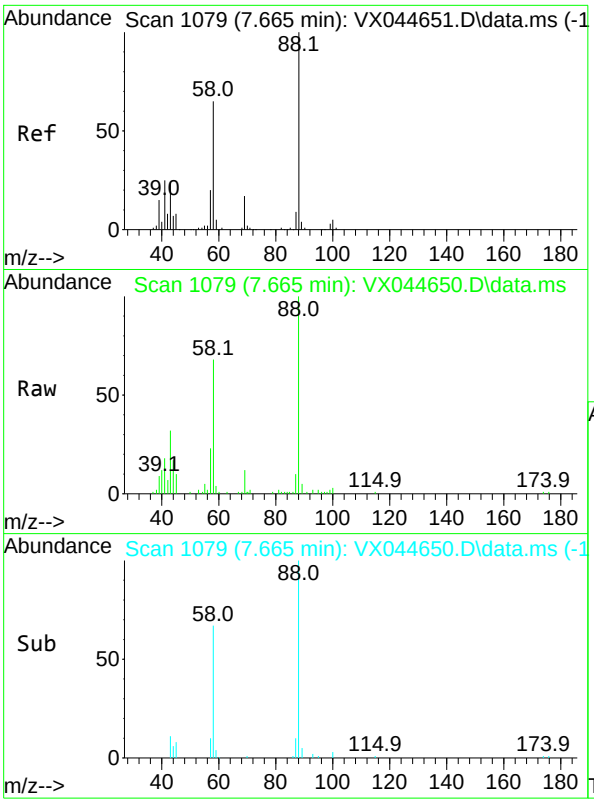



#48
Methyl methacrylate
Concen: 20.310 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 41 Resp: 57413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.9 | 66.8 | 100.2 |
| 39 | 60.0 | 47.4 | 71.0 |

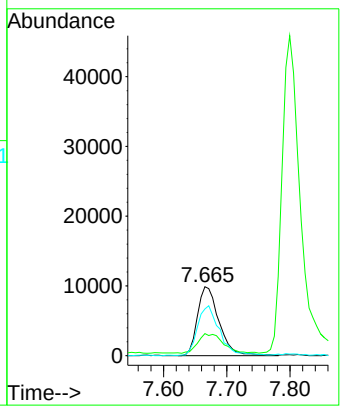





#49
1,4-Dioxane
Concen: 397.311 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 88 Resp: 2343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.8 | 27.0 | 40.4 |
| 58 | 72.7 | 55.8 | 83.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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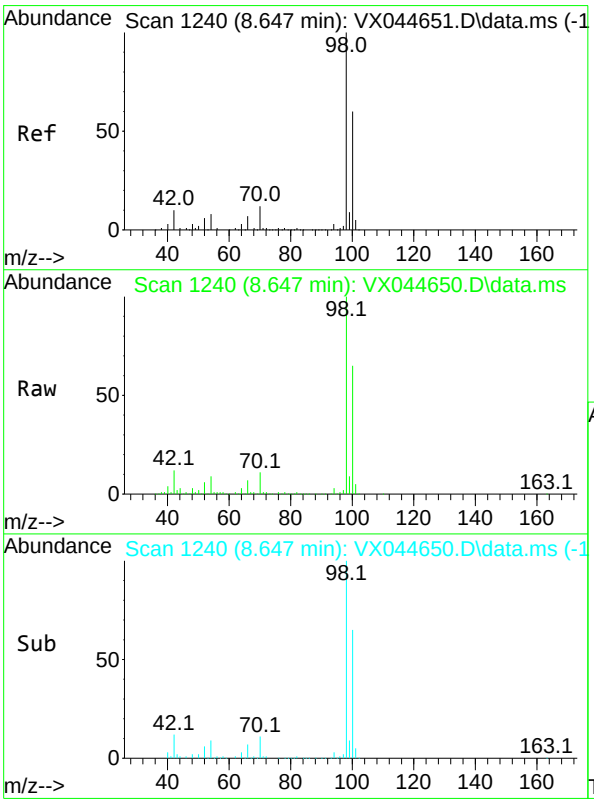
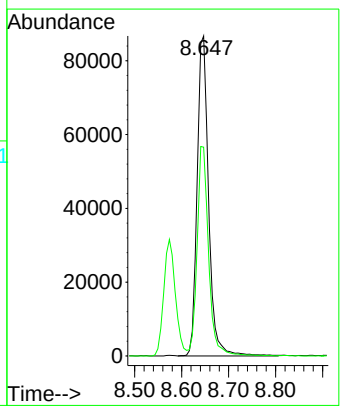
Supervised By :Semsettin Yesilyurt 01/16/2025

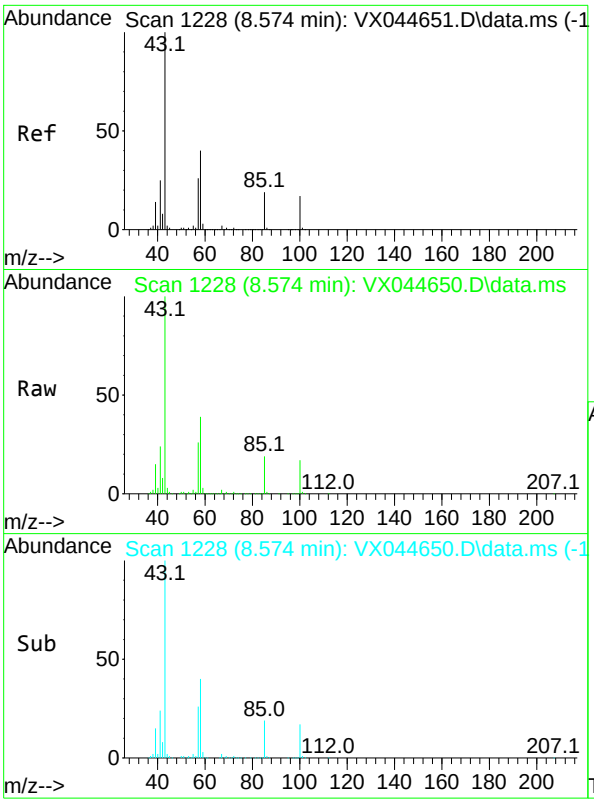



#50
Toluene-d8
Concen: 18.987 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 98 Resp: 147843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.5 | 53.2 | 79.8 |

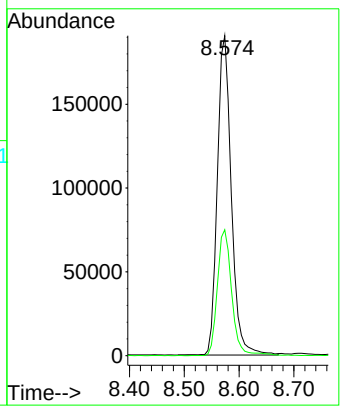





#51
4-Methyl-2-Pentanone
Concen: 100.520 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 33830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.4 | 31.9 | 47.9 |

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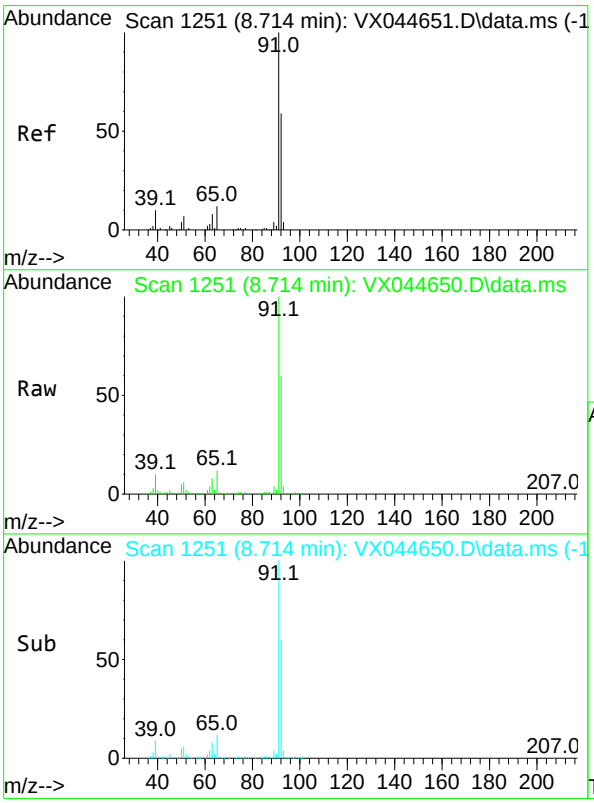
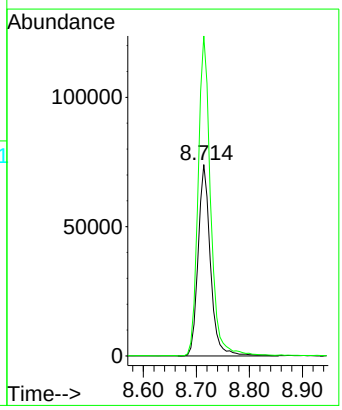
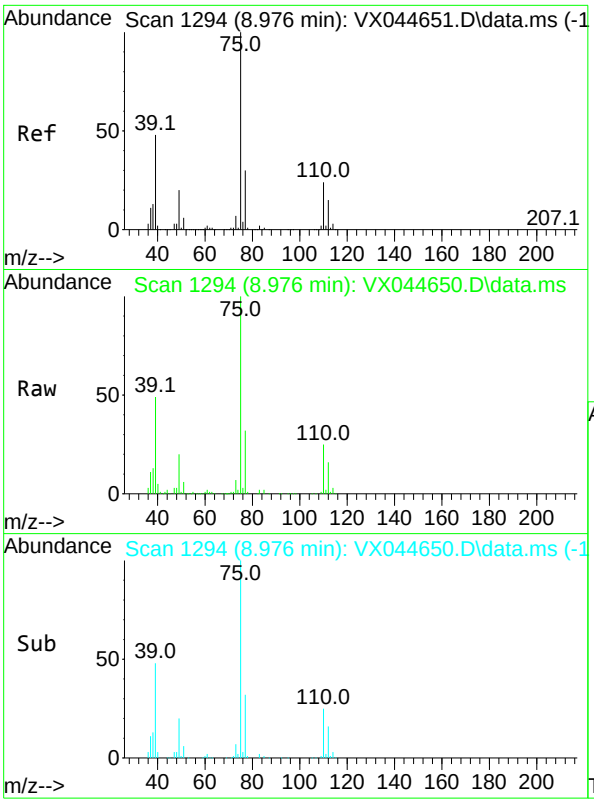



#52
Toluene
Concen: 20.253 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 92 Resp: 119410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.2 | 135.7 | 203.5 |

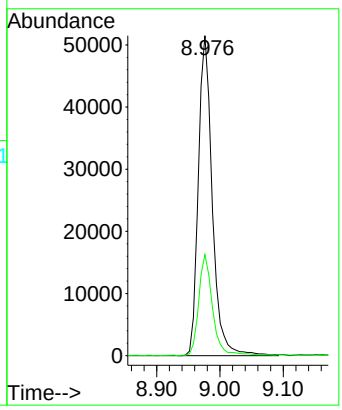





#53
t-1,3-Dichloropropene
Concen: 20.266 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 75 Resp: 7926

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.6 | 24.4 | 36.6 |

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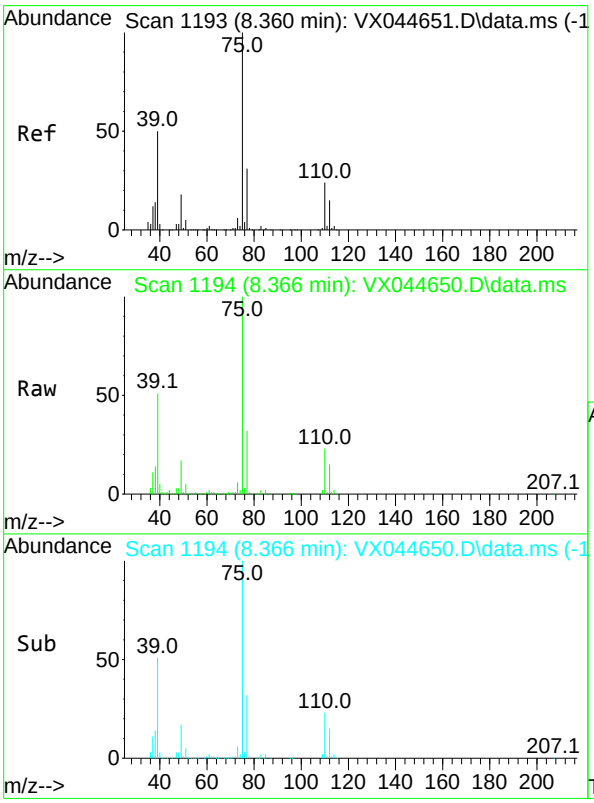
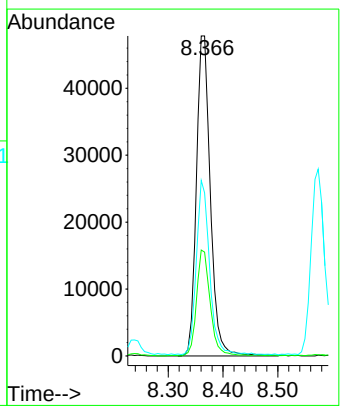
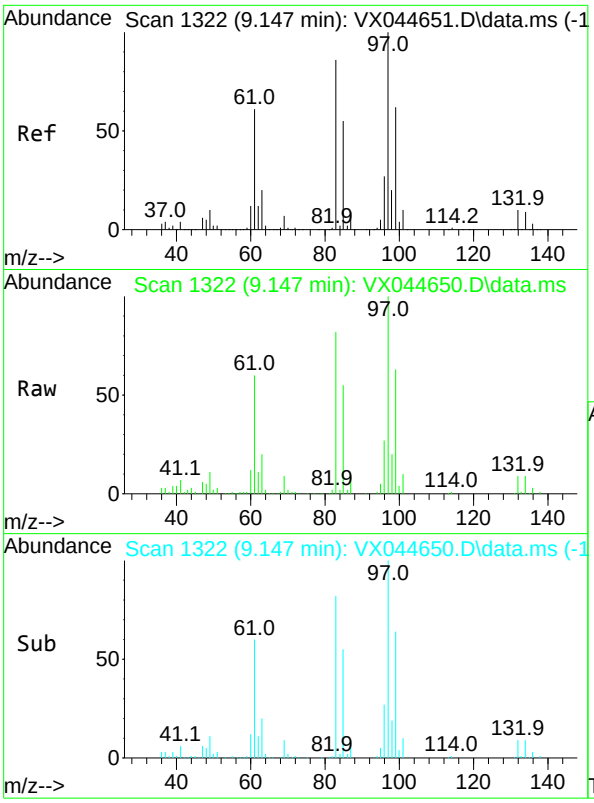



#54
cis-1,3-Dichloropropene
Concen: 20.008 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 75 Resp: 84851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.1 | 37.7 |
| 39 | 50.6 | 40.3 | 60.5 |

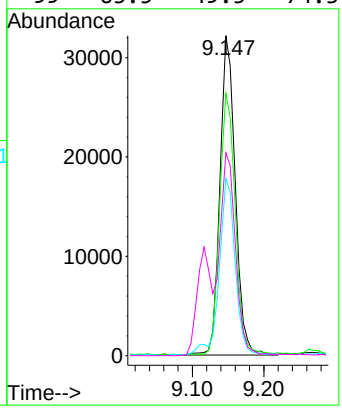





#55
1,1,2-Trichloroethane
Concen: 20.093 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 97 Resp: 4793

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 81.9 | 68.8 | 103.2 |
| 85 | 55.0 | 43.7 | 65.5 |
| 99 | 63.5 | 49.5 | 74.3 |

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VSTDICC020

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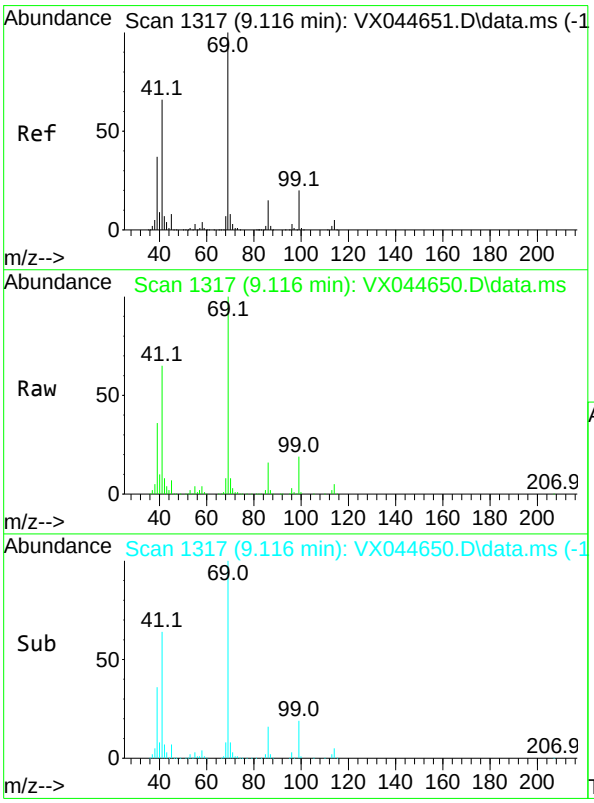
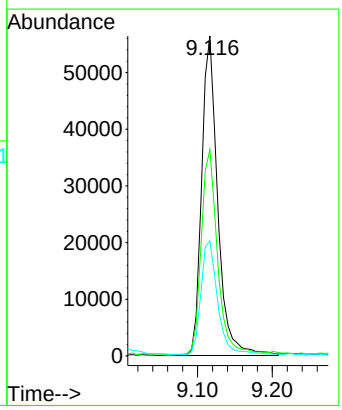
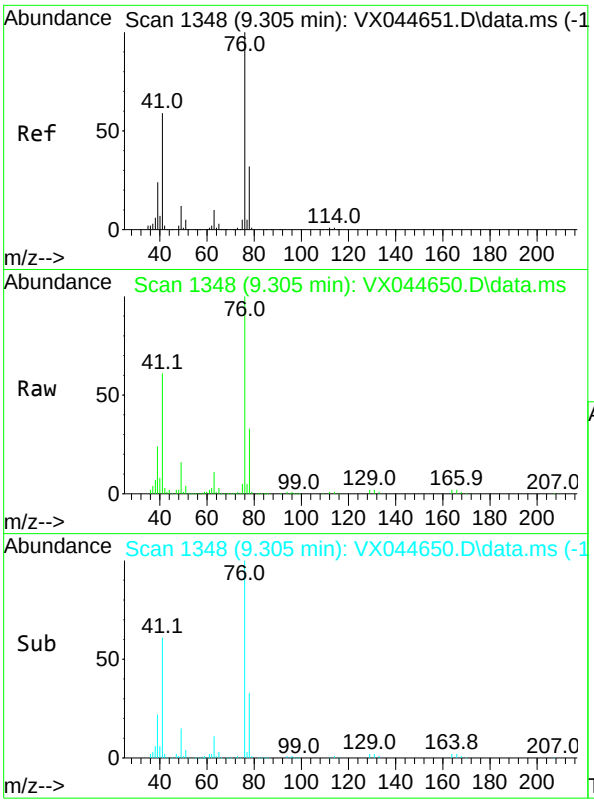



#56
Ethyl methacrylate
Concen: 20.496 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 69 Resp: 84067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.2 | 53.2 | 79.8 |
| 39 | 36.9 | 30.2 | 45.2 |

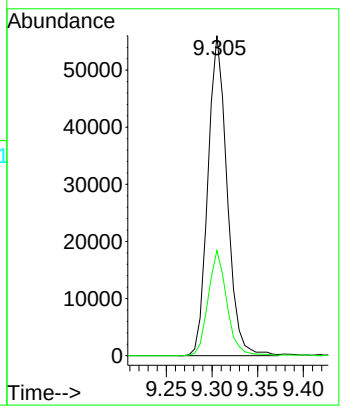





#57
1,3-Dichloropropane
Concen: 20.117 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 76 Resp: 8171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 26.0 | 39.0 |




**Instrument :**
MSVOA_X
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VSTDICC020

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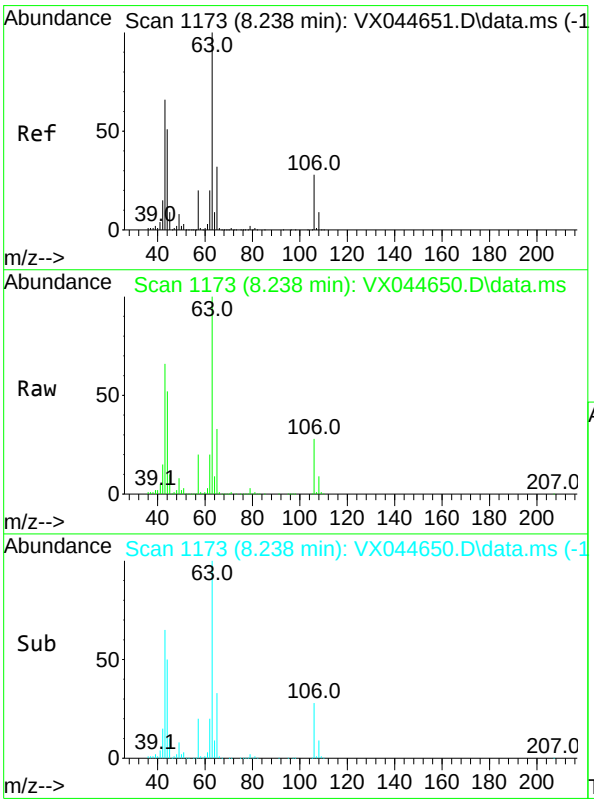
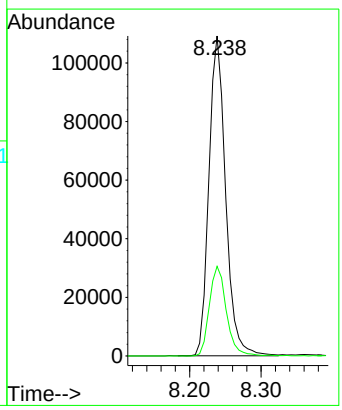
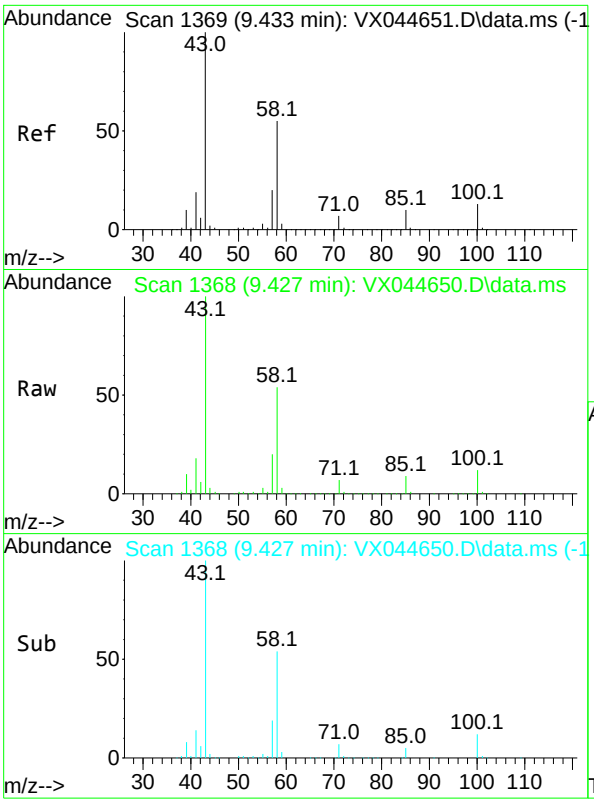



#58
2-Chloroethyl Vinyl ether
Concen: 87.899 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 63 Resp: 176999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.4 | 23.0 | 34.6 |






#59
2-Hexanone
Concen: 101.288 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 25079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.0 | 27.8 | 83.3 |

**Instrument :**
MSVOA_X
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VSTDICC020

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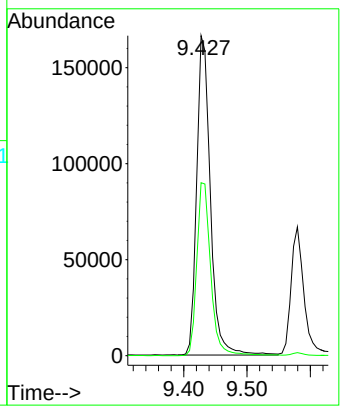
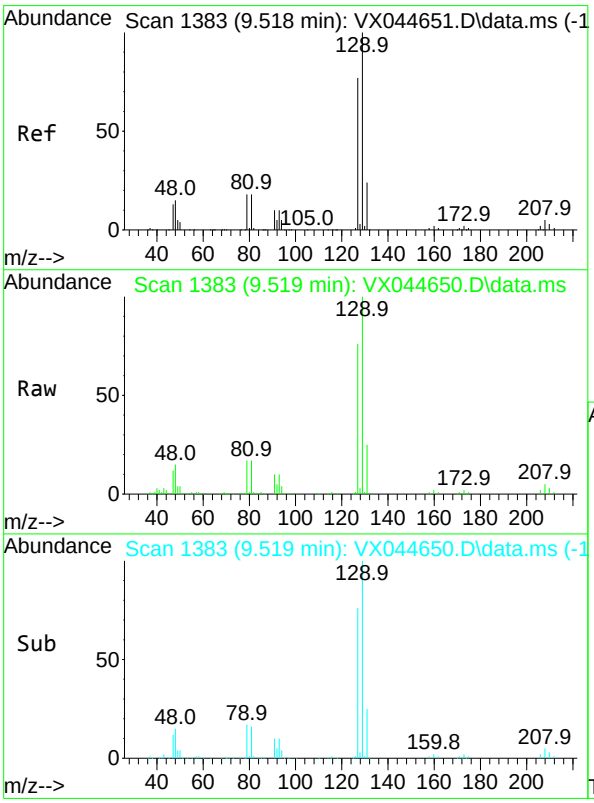
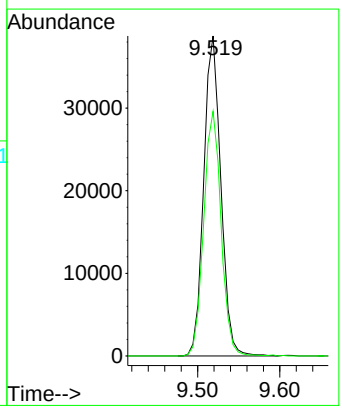


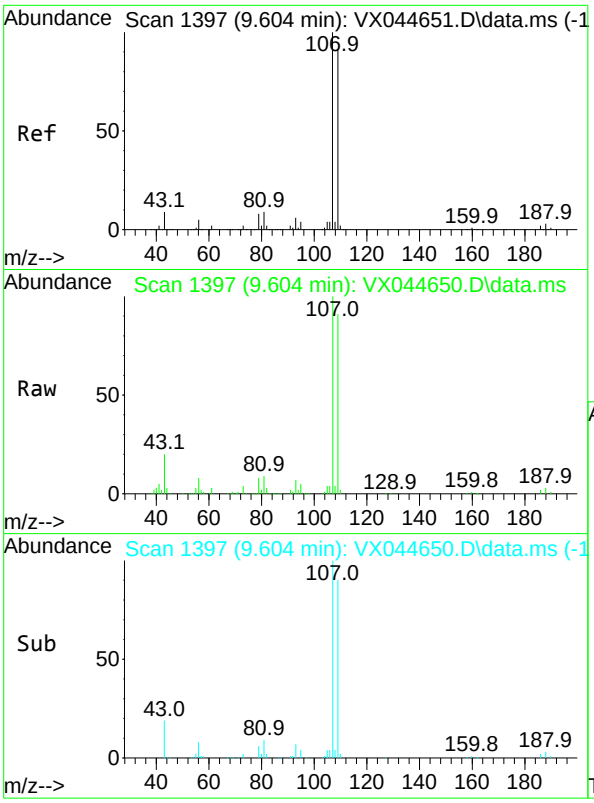




#60
Dibromochloromethane
Concen: 20.015 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:129 Resp: 56038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |

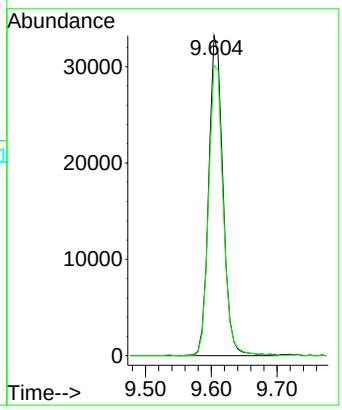





#61
1,2-Dibromoethane
Concen: 20.025 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:107 Resp: 5006

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.4 | 75.3 | 112.9 |

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**ClientSampleId :**
VSTDICC020

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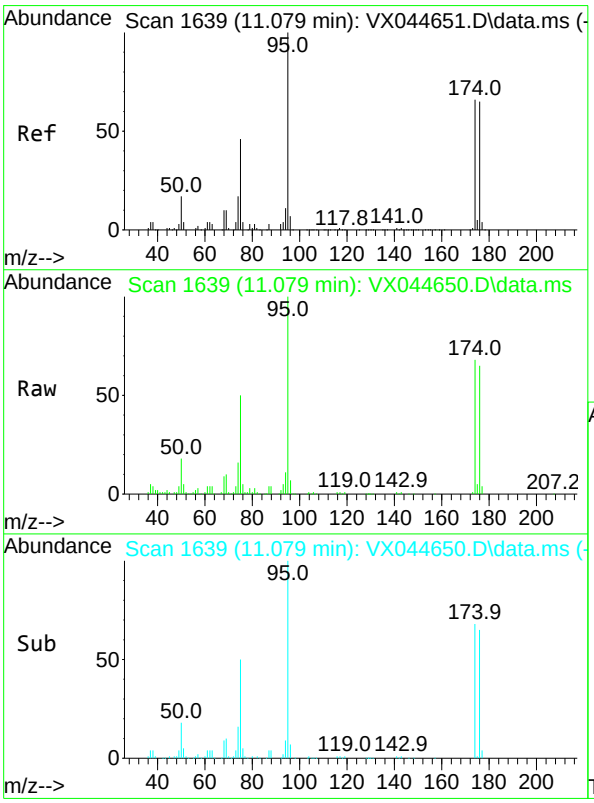
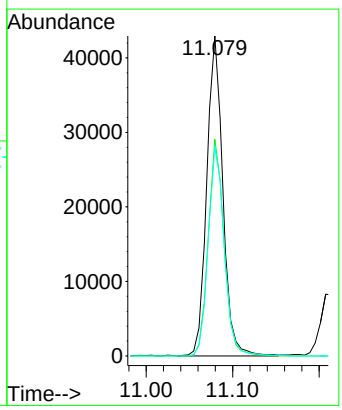
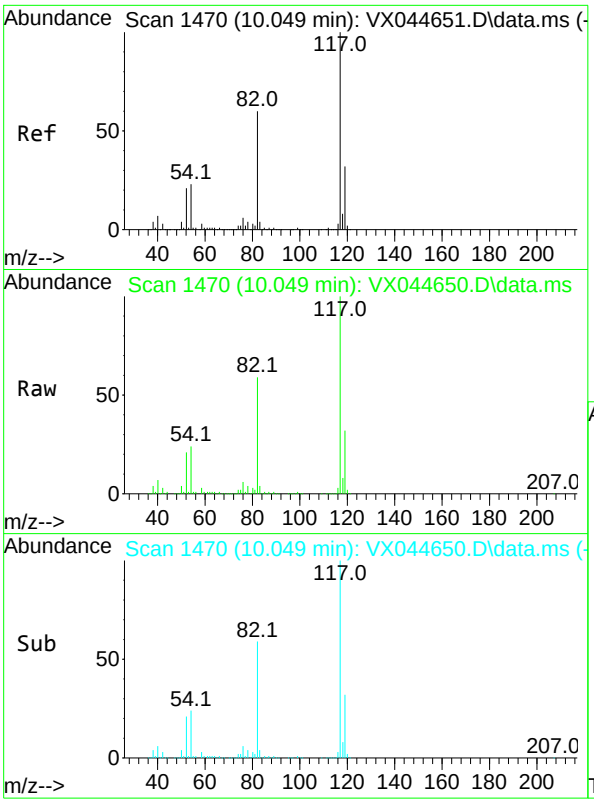



#62
4-Bromofluorobenzene
Concen: 19.087 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 95 Resp: 55407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.7 | 0.0 | 133.0 |
| 176 | 65.3 | 0.0 | 129.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:117 Resp: 30542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.4 | 47.6 | 71.4 |
| 119 | 31.9 | 25.4 | 38.2 |

**Instrument :**
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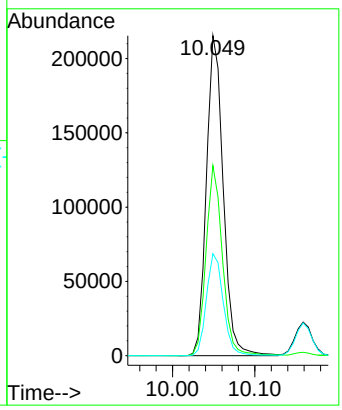
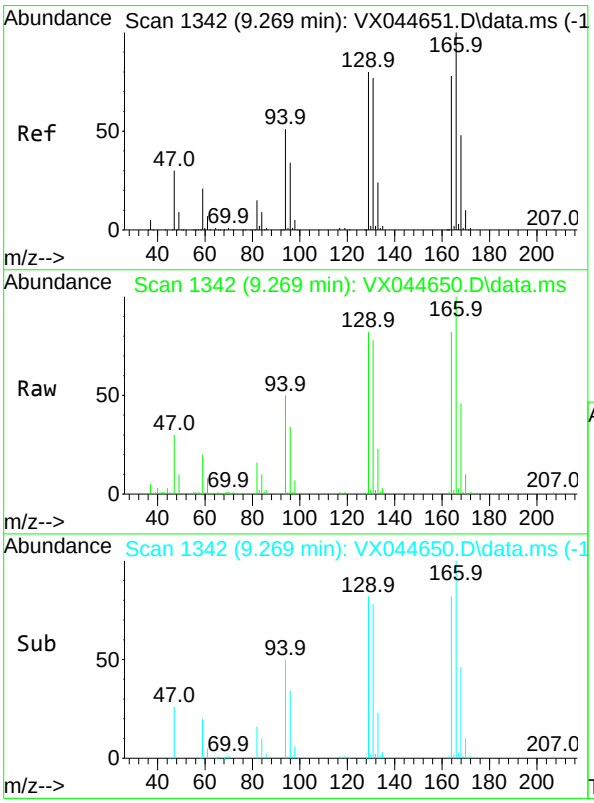
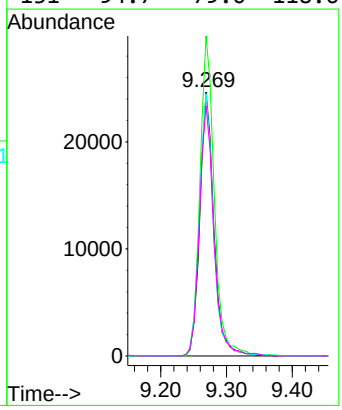


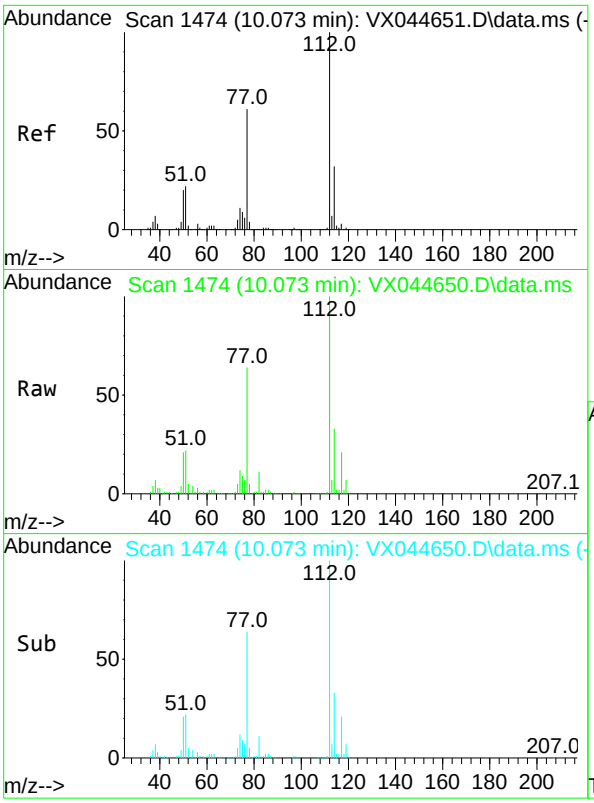




#64
Tetrachloroethene
Concen: 19.066 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:164 Resp: 36566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 121.3 | 102.0 | 153.0 |
| 129 | 99.4 | 81.1 | 121.7 |
| 131 | 94.7 | 79.0 | 118.6 |

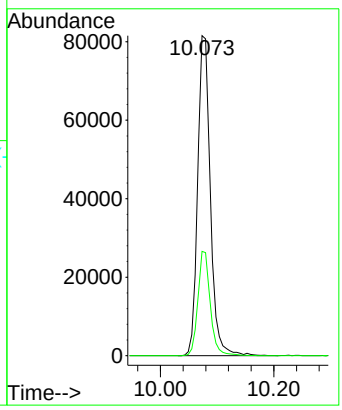





#65
Chlorobenzene
Concen: 19.506 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:112 Resp: 12654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.6 | 25.3 | 37.9 |




**Instrument :**
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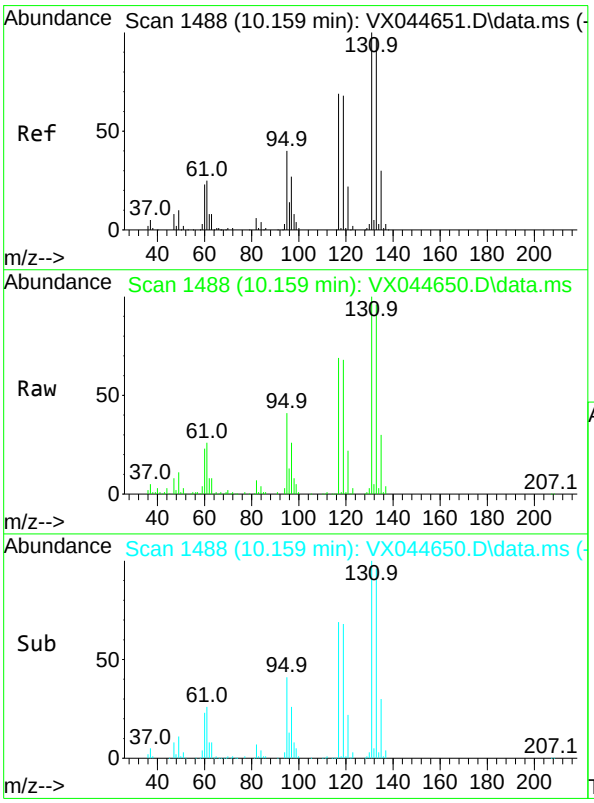
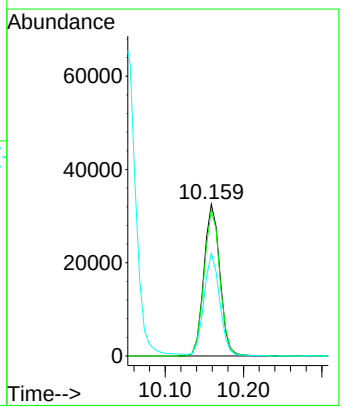
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

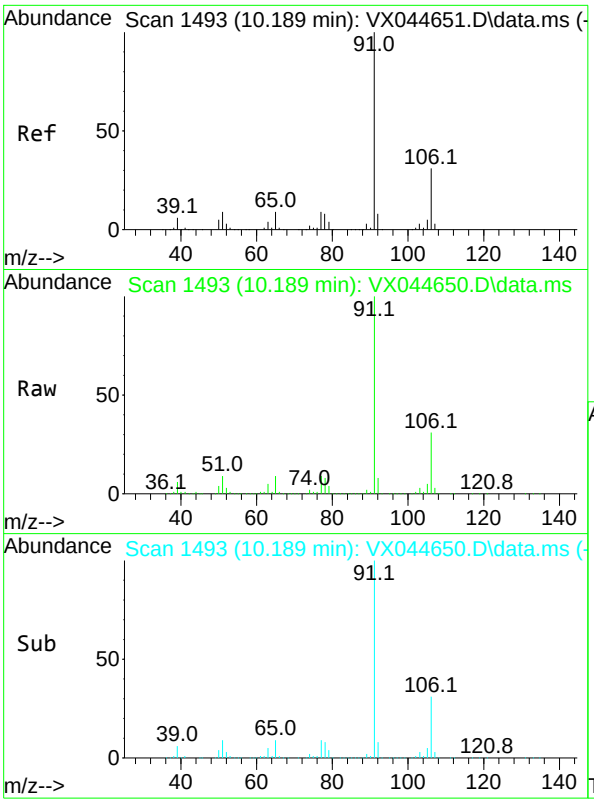



#66
1,1,1,2-Tetrachloroethane
Concen: 19.493 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:131 Resp: 45959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.3 | 47.8 | 143.3 |
| 119 | 67.1 | 33.4 | 100.2 |






#67
Ethyl Benzene
Concen: 19.723 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 91 Resp: 22324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.0 | 25.0 | 37.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

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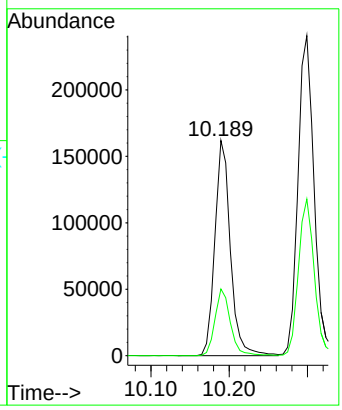
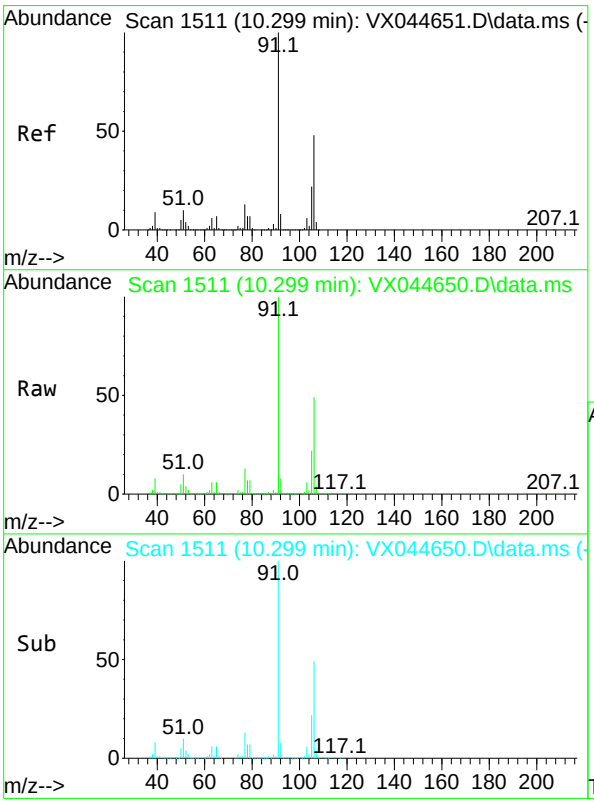
Supervised By :Semsettin Yesilyurt 01/16/2025

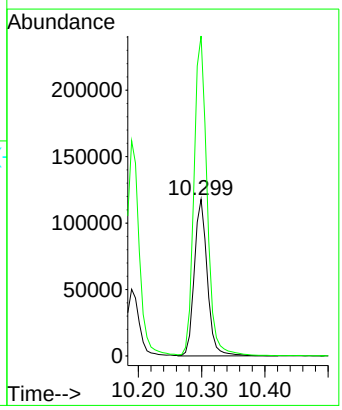


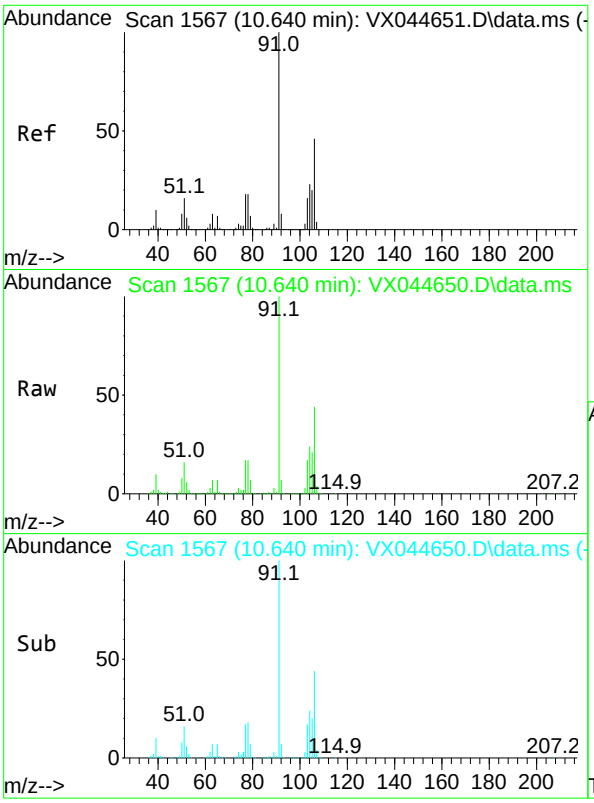




#68
m/p-Xylenes
Concen: 39.921 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:106 Resp: 167689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.5 | 166.4 | 249.6 |

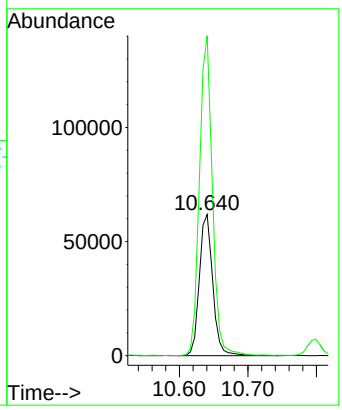





#69
o-Xylene
Concen: 19.840 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:106 Resp: 8428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.4 | 108.7 | 326.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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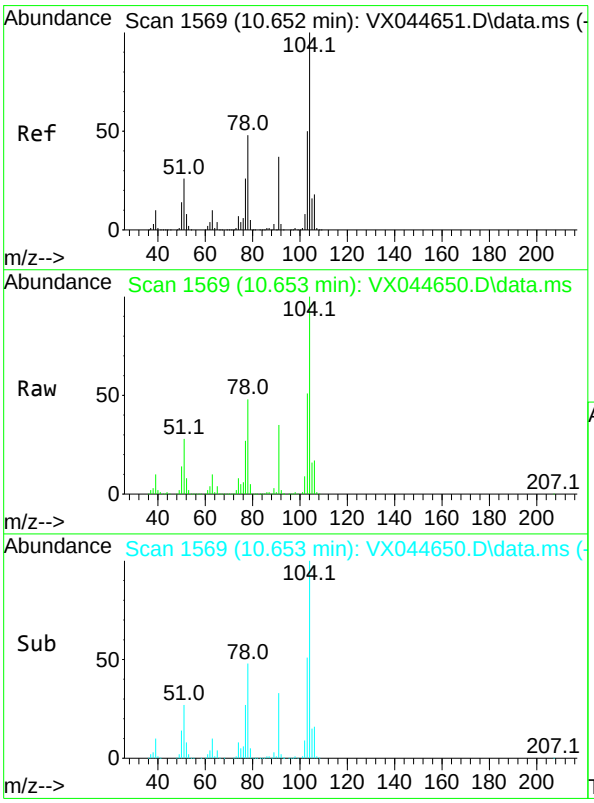
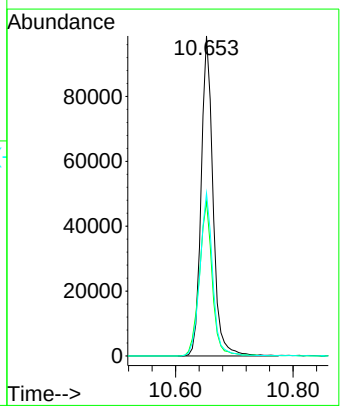
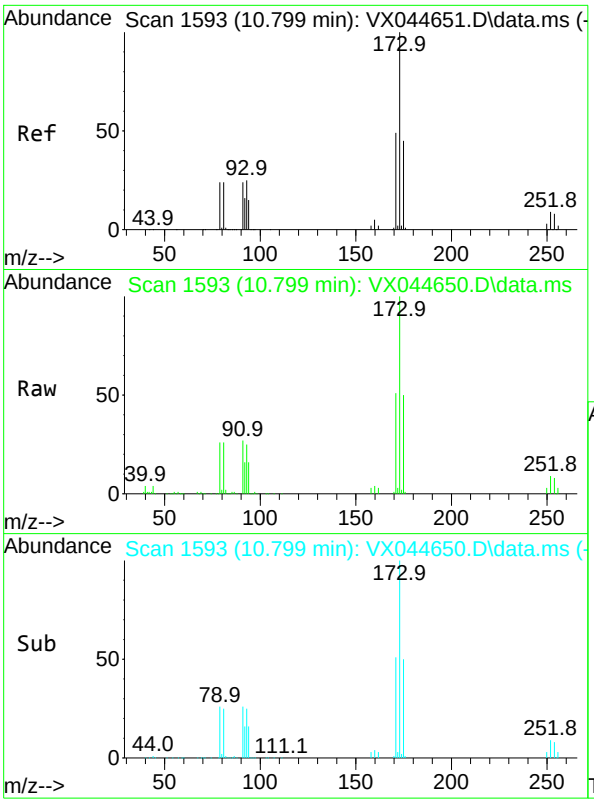



#70
Styrene
Concen: 20.189 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:104 Resp: 138465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.7 | 43.0 | 64.6 |
| 103 | 55.0 | 43.4 | 65.2 |

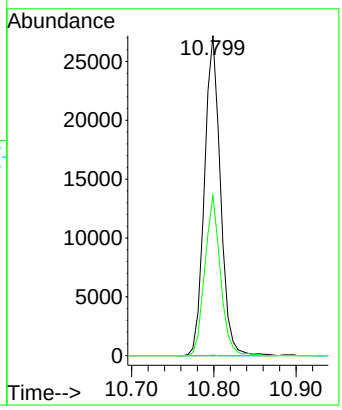





#71
Bromoform
Concen: 19.198 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:173 Resp: 3683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.8 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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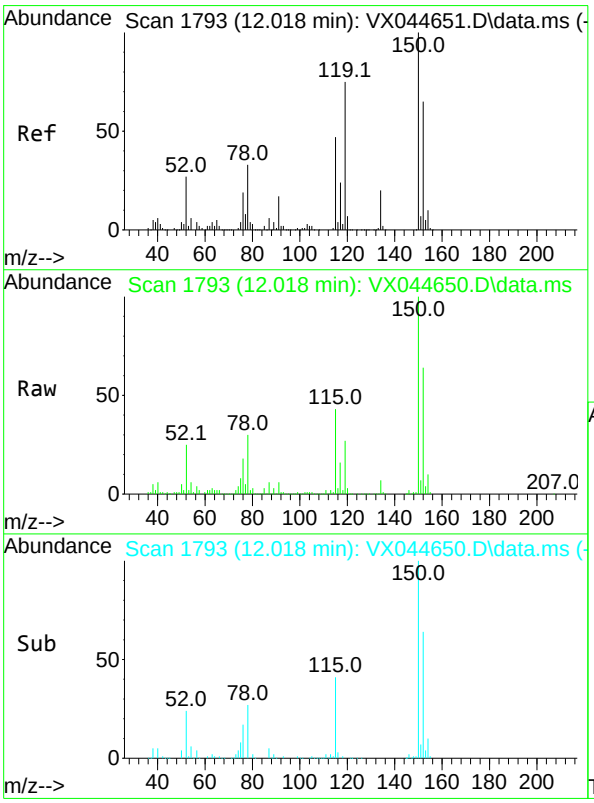
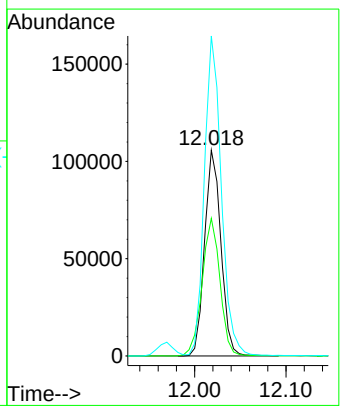
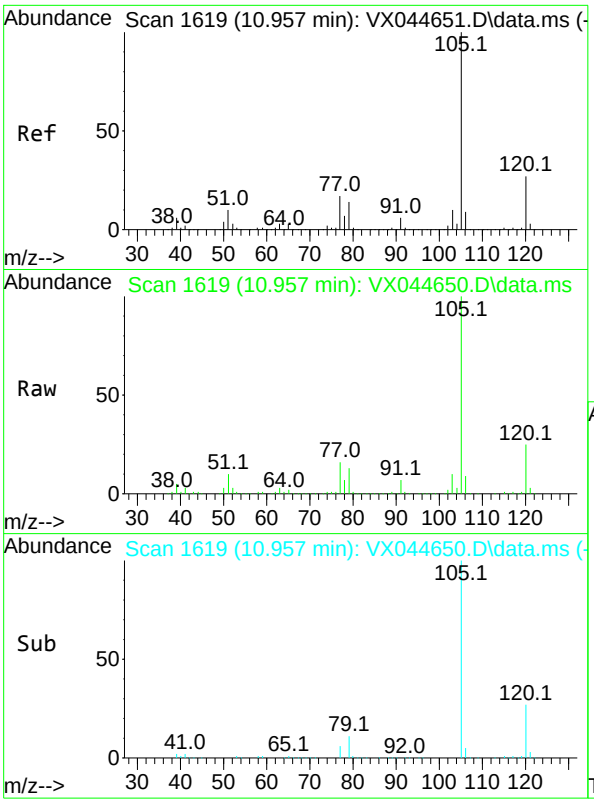



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:152 Resp: 130861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 73.2 | 43.8 | 131.4 |
| 150 | 161.8 | 0.0 | 347.8 |

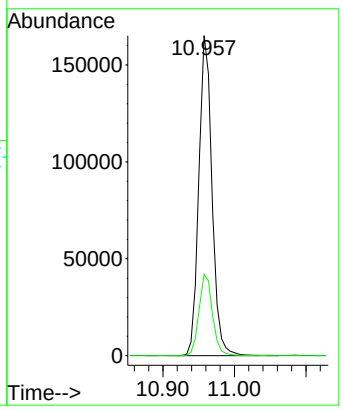





#73
Isopropylbenzene
Concen: 19.797 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:105 Resp: 21163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.2 | 39.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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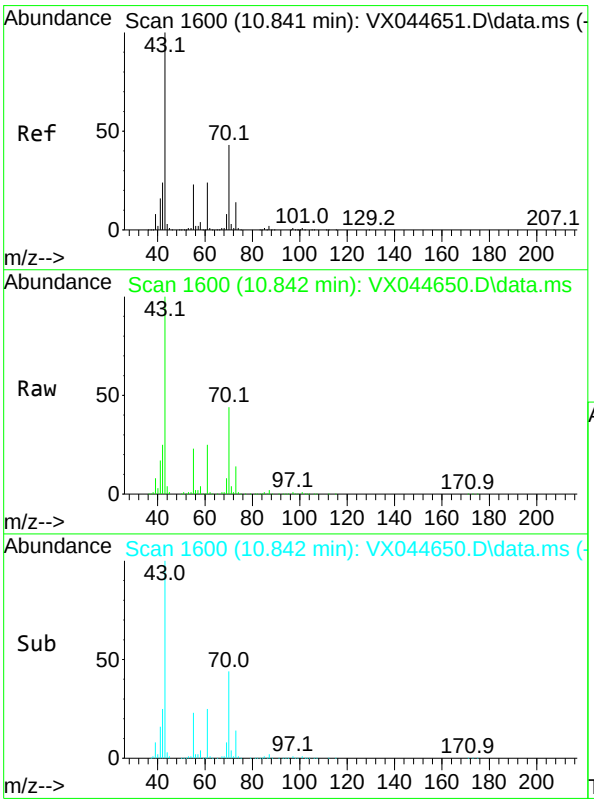
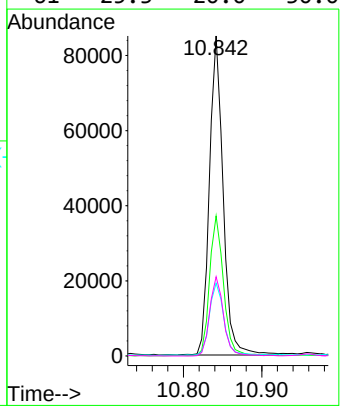
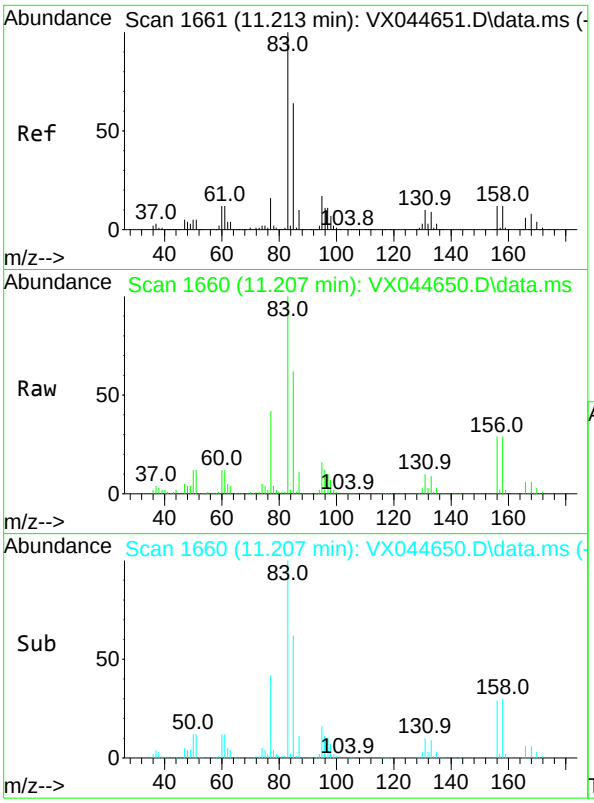



#74
N-amyl acetate
Concen: 19.555 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 103040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.6 | 35.2 | 52.8 |
| 55 | 23.6 | 19.0 | 28.4 |
| 61 | 25.3 | 20.0 | 30.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 19.823 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 83 Resp: 7319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 5.0 | 14.9 |
| 85 | 62.5 | 32.0 | 96.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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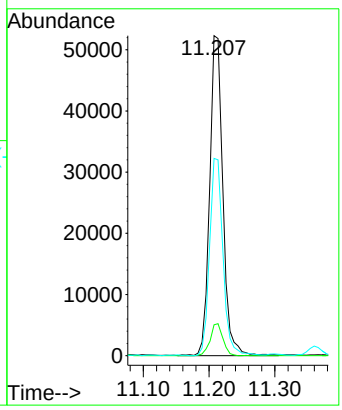
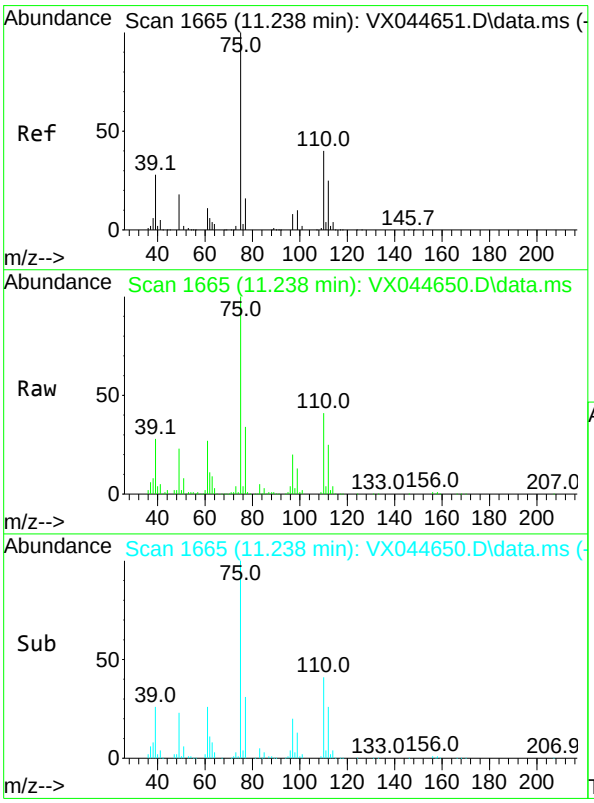
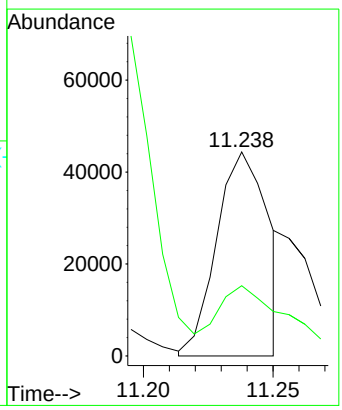


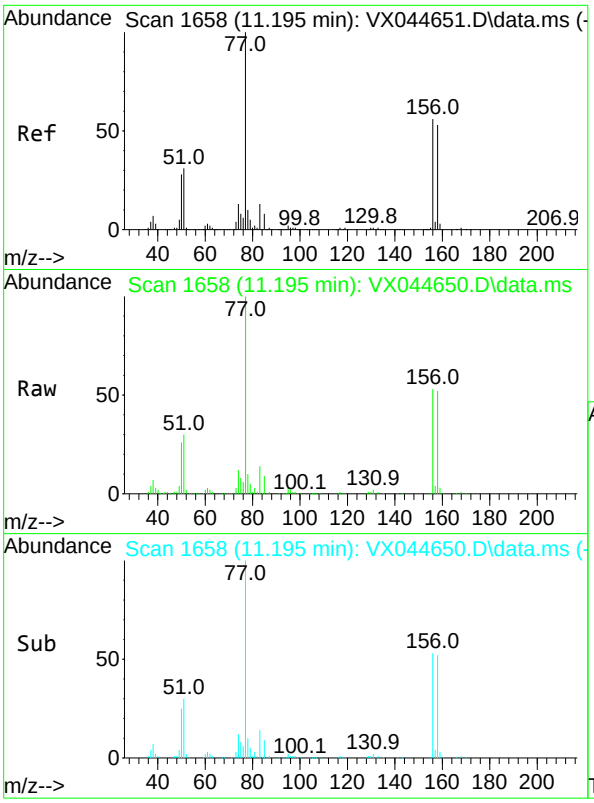




#76
1,2,3-Trichloropropane
Concen: 19.870 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 75 Resp: 61409

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 46.7 | 23.4 | 70.2 |

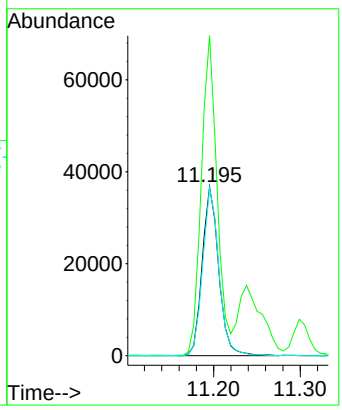





#77
Bromobenzene
Concen: 19.432 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:156 Resp: 4855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 181.1 | 90.3 | 271.0 |
| 158 | 97.5 | 48.4 | 145.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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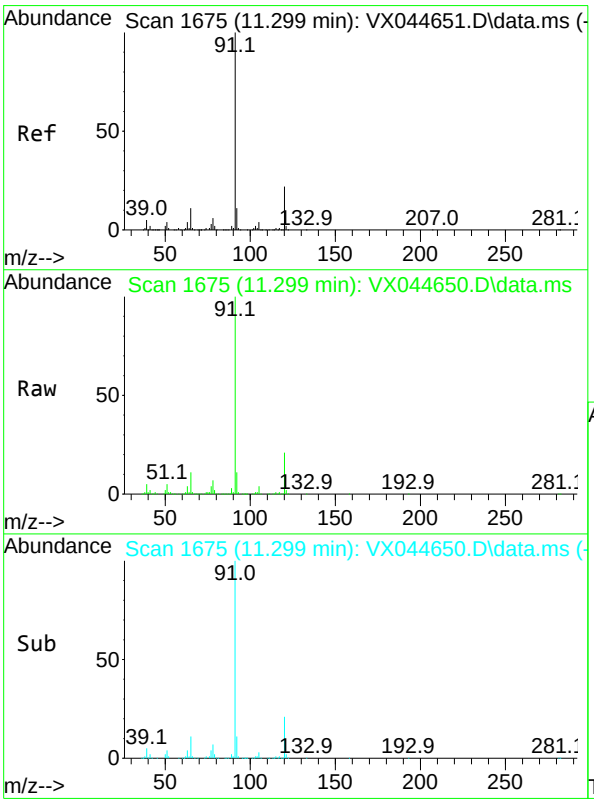
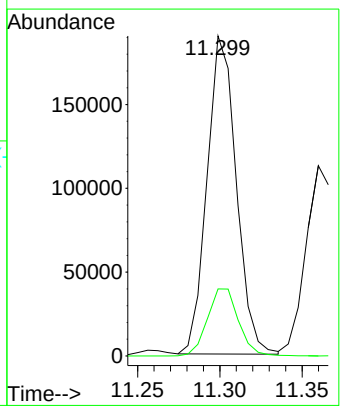
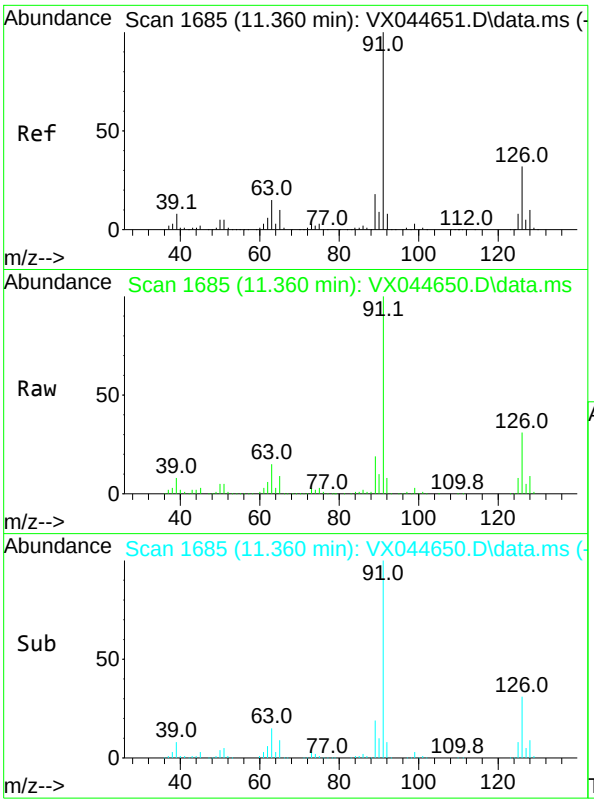



#78
n-propylbenzene
Concen: 19.896 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 91 Resp: 234567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.4 | 34.1 |






#79
2-Chlorotoluene
Concen: 19.655 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 91 Resp: 14968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.8 | 16.2 | 48.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
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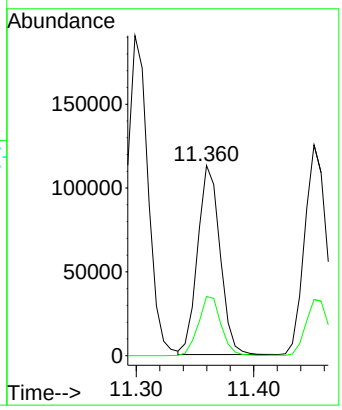
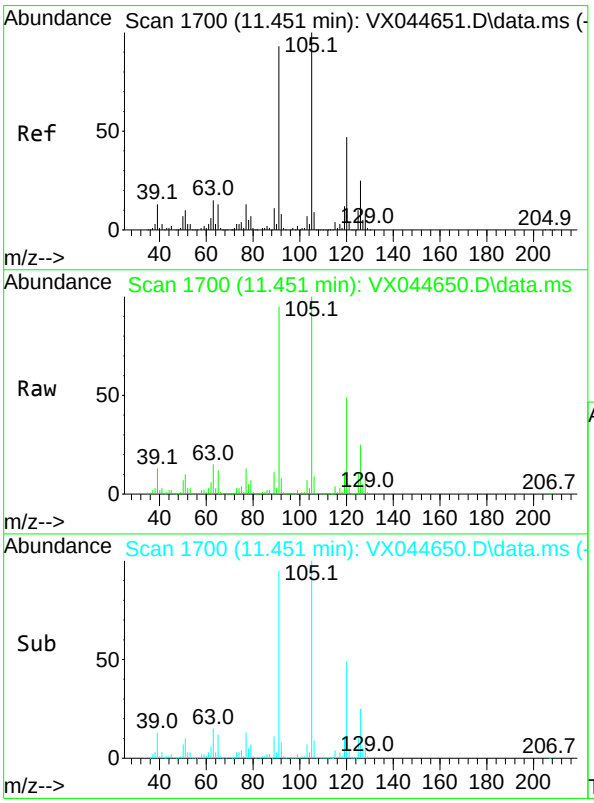
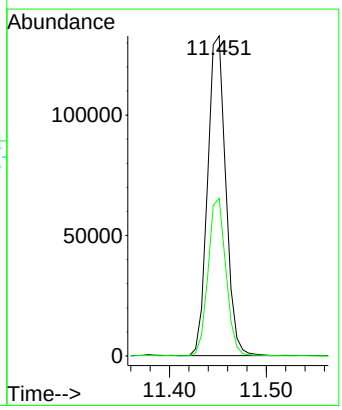


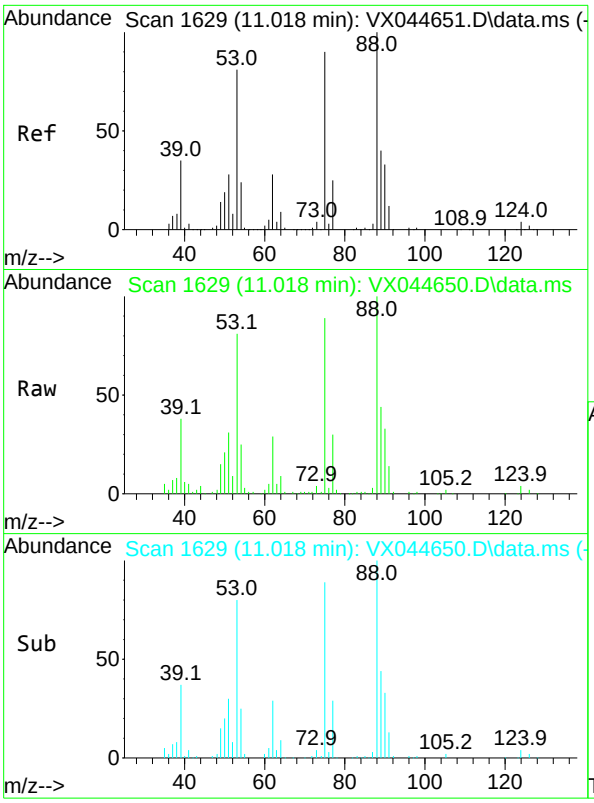




#80
1,3,5-Trimethylbenzene
Concen: 19.919 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:105 Resp: 173348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.5 | 23.7 | 71.1 |






#81
trans-1,4-Dichloro-2-butene
Concen: 19.486 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 75 Resp: 2706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.5 | 74.3 | 111.5 |
| 89 | 48.8 | 37.4 | 56.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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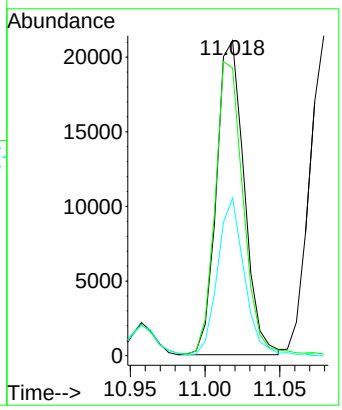
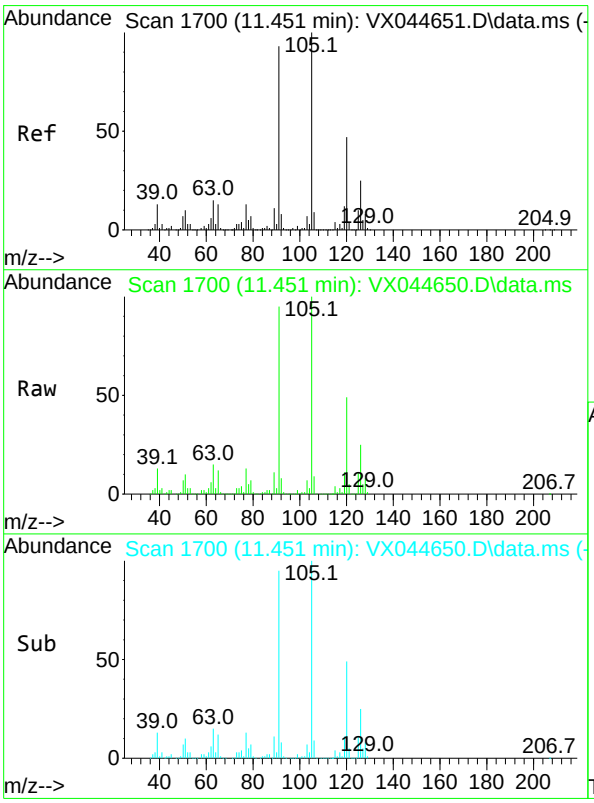
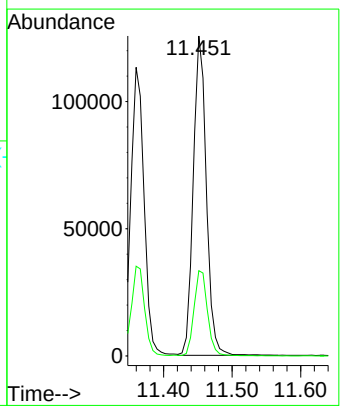


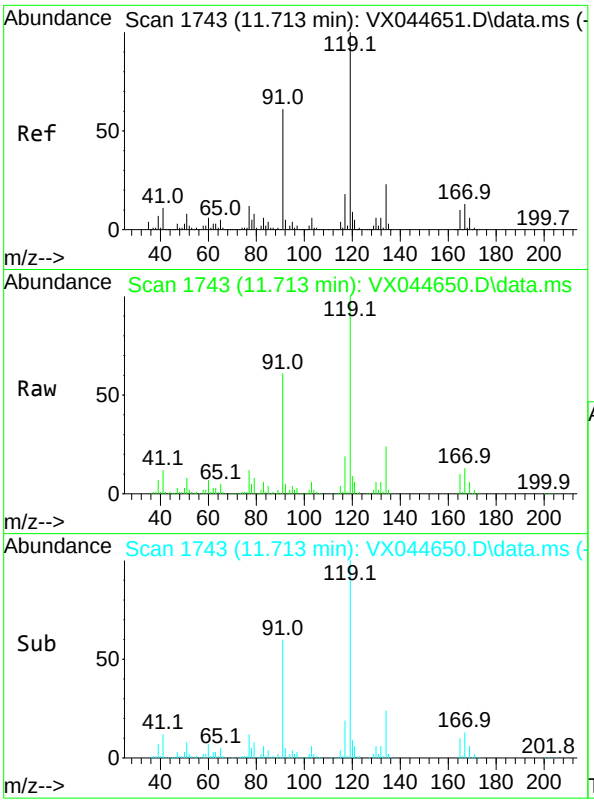




#82
4-Chlorotoluene
Concen: 19.968 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 91 Resp: 166586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.8 | 13.9 | 41.7 |

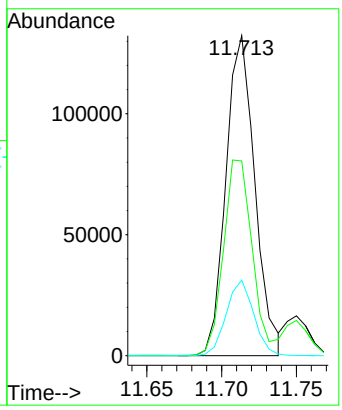





#83
tert-Butylbenzene
Concen: 19.617 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:119 Resp: 17850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 59.8 | 30.0 | 90.0 |
| 134 | 22.3 | 11.2 | 33.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

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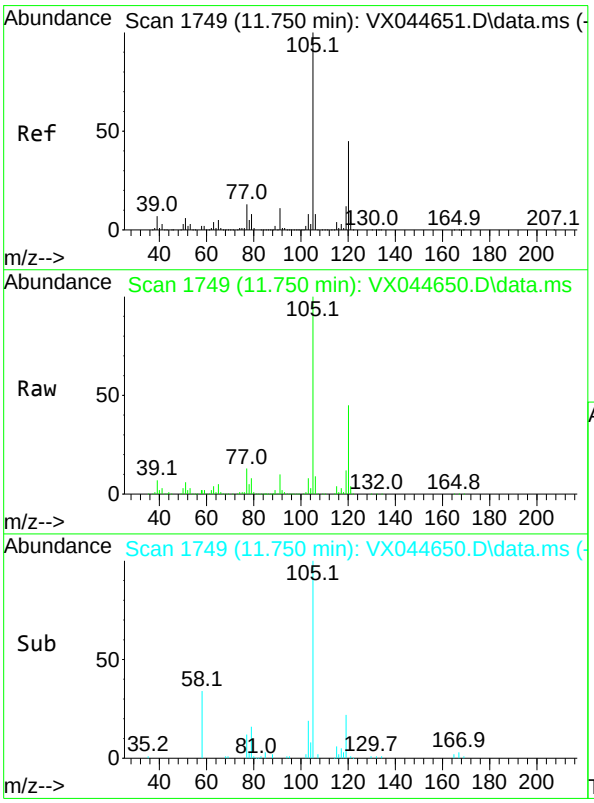
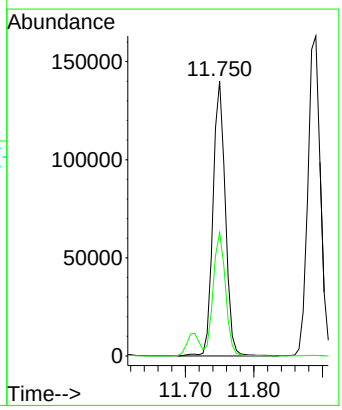
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

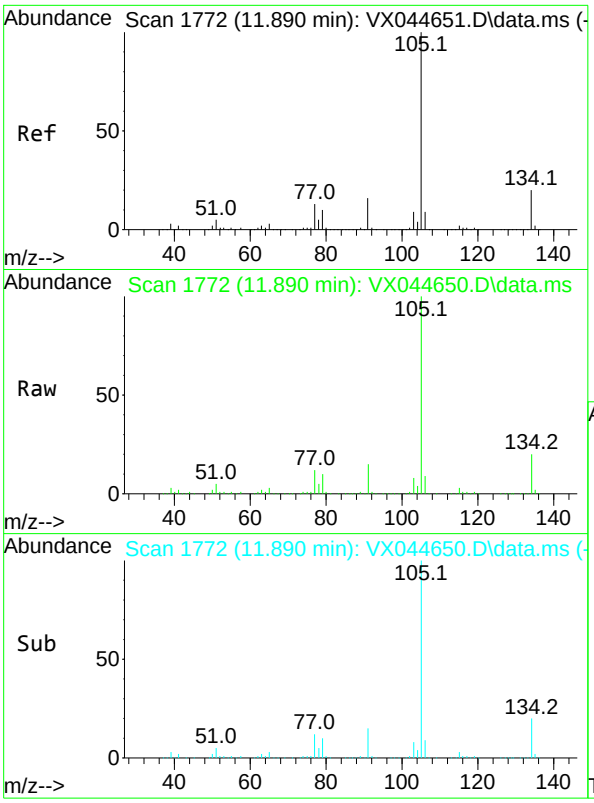



#84
1,2,4-Trimethylbenzene
Concen: 19.807 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:105 Resp: 175164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.9 | 22.2 | 66.6 |

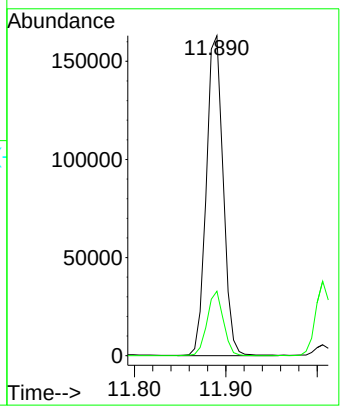





#85
sec-Butylbenzene
Concen: 19.649 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:105 Resp: 20818

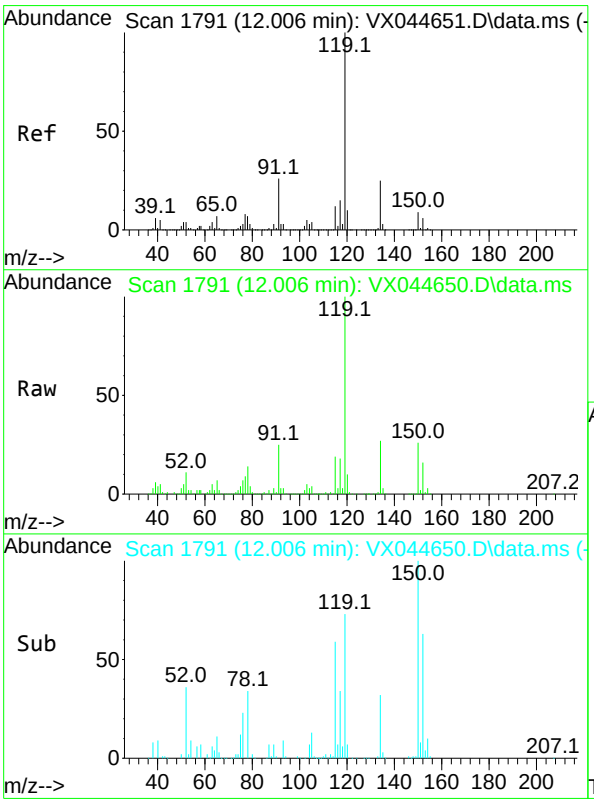
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.8 | 29.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

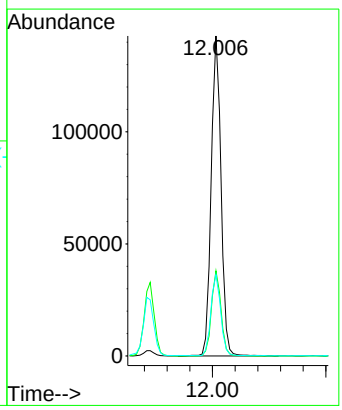
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

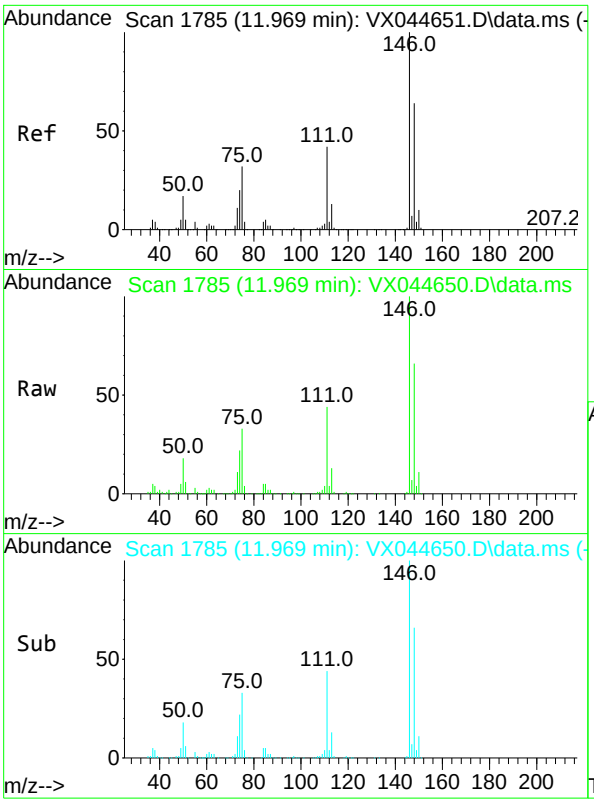



#86
p-Isopropyltoluene
Concen: 19.697 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:119 Resp: 171507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 12.8 | 38.4 |
| 91 | 25.0 | 12.7 | 38.1 |

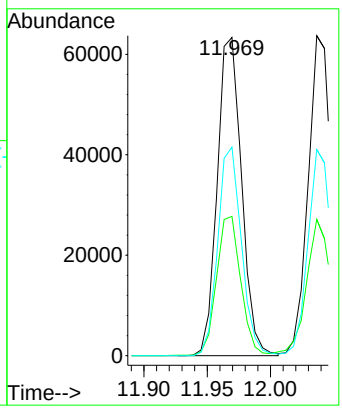





#87
1,3-Dichlorobenzene
Concen: 19.560 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:146 Resp: 8475

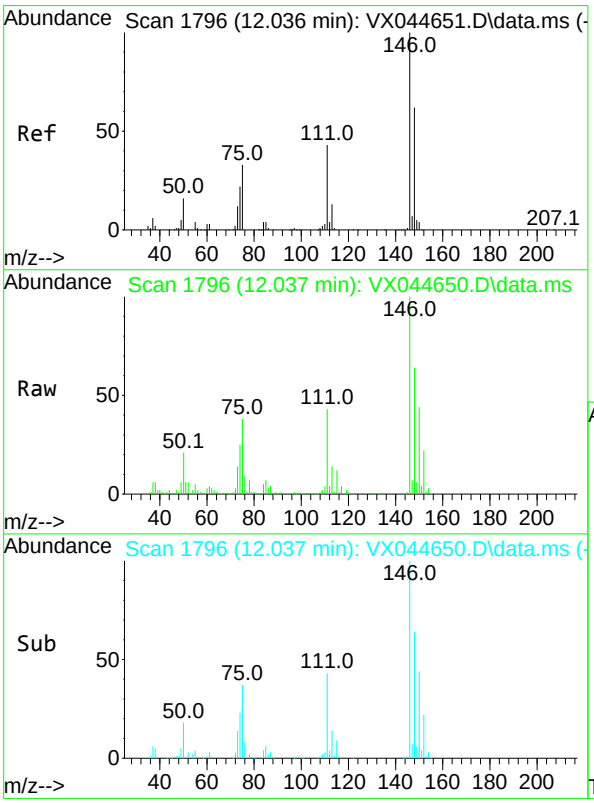
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.9 | 65.7 |
| 148 | 63.9 | 31.8 | 95.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

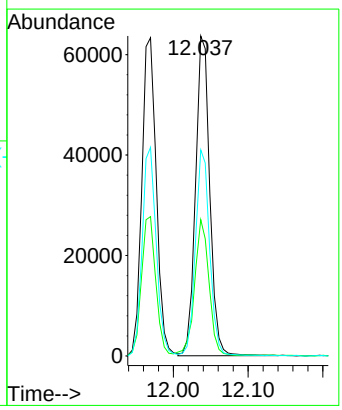
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

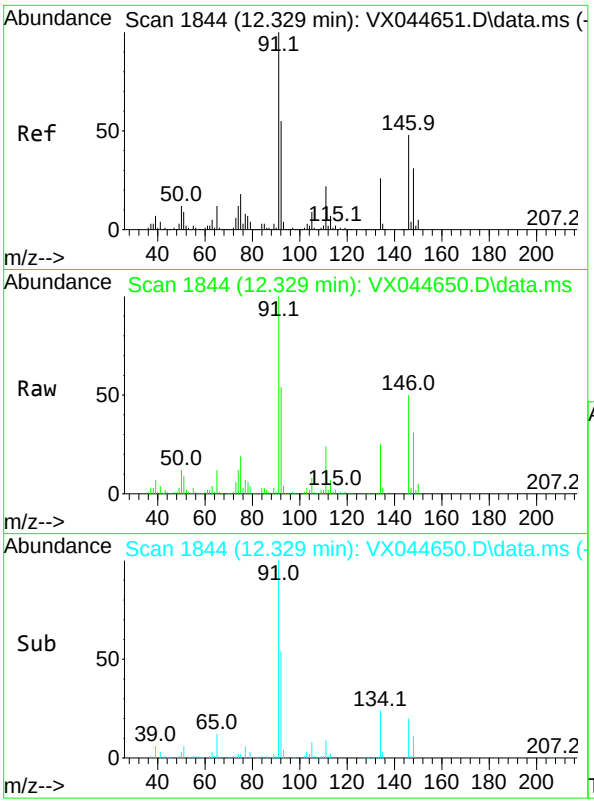



#88
1,4-Dichlorobenzene
Concen: 19.536 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:146 Resp: 84055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.8 | 21.5 | 64.5 |
| 148 | 64.1 | 32.1 | 96.5 |

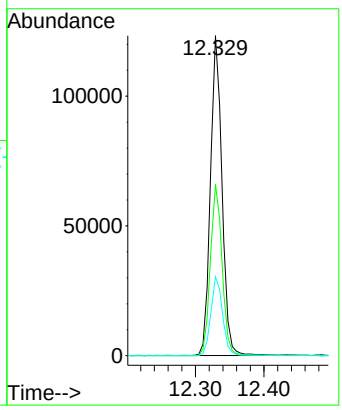





#89
n-Butylbenzene
Concen: 19.391 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 91 Resp: 14501

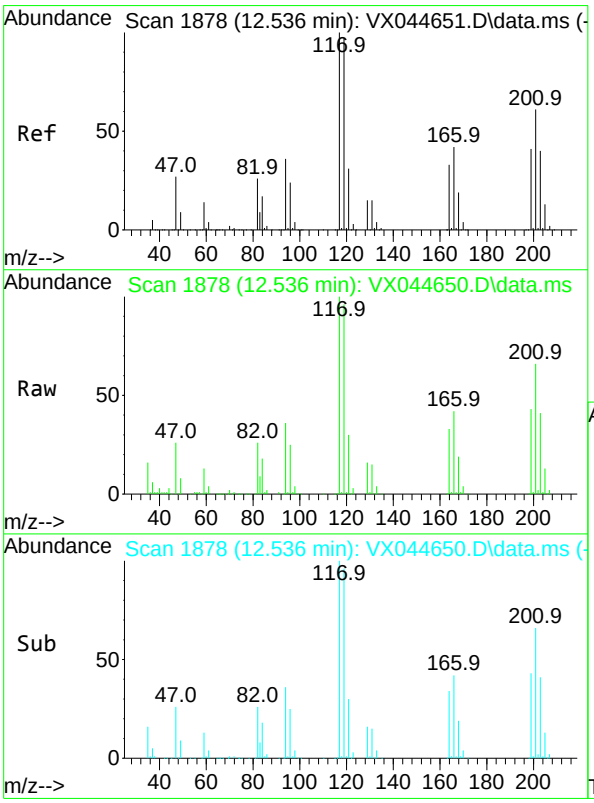
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.4 | 27.4 | 82.0 |
| 134 | 25.0 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

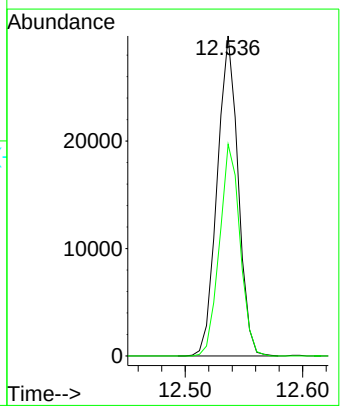
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

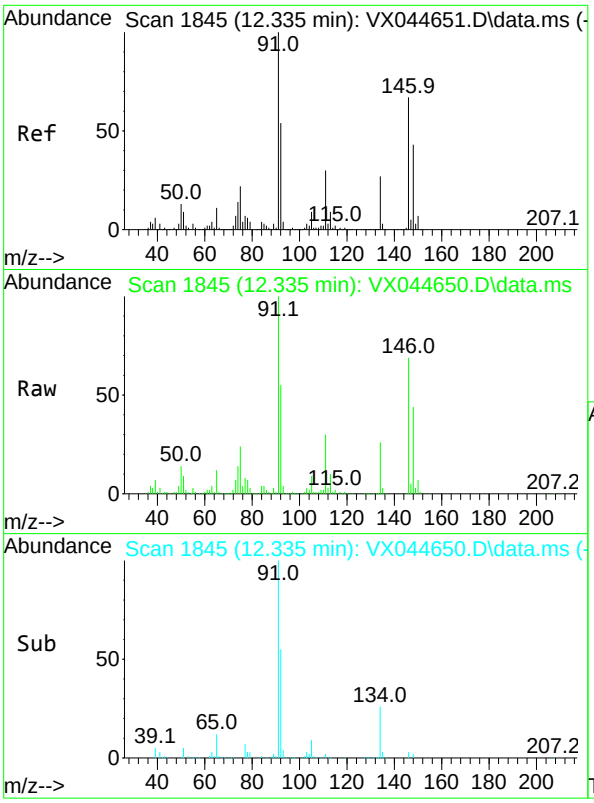



#90
Hexachloroethane
Concen: 18.693 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:117 Resp: 36858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.9 | 32.3 | 96.8 |

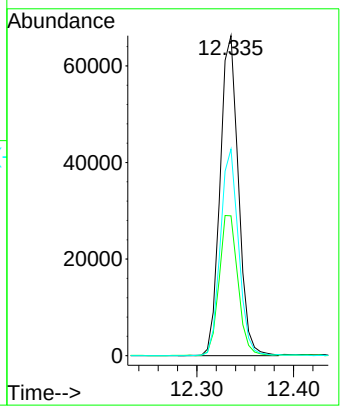





#91
1,2-Dichlorobenzene
Concen: 19.582 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:146 Resp: 8714

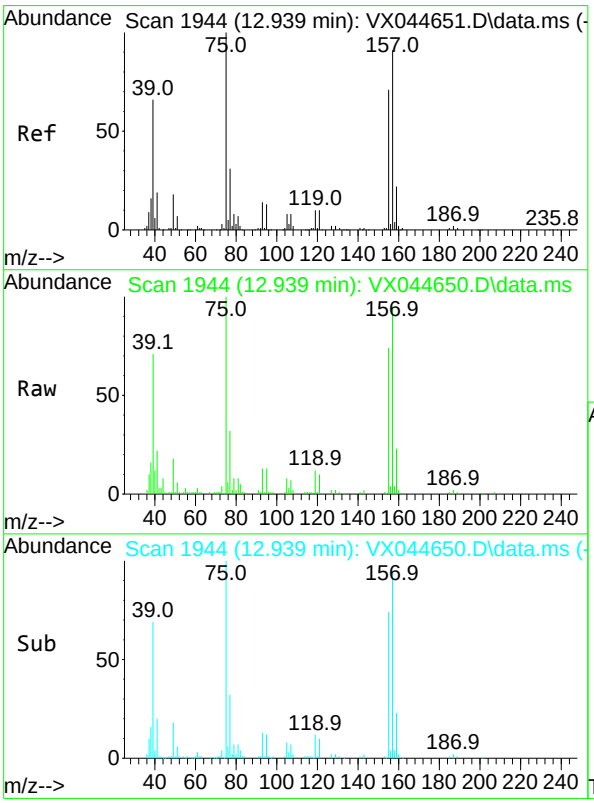
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.1 | 22.4 | 67.2 |
| 148 | 64.1 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

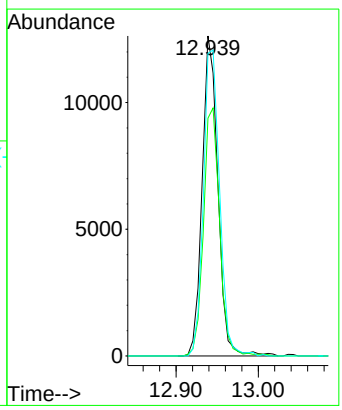
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

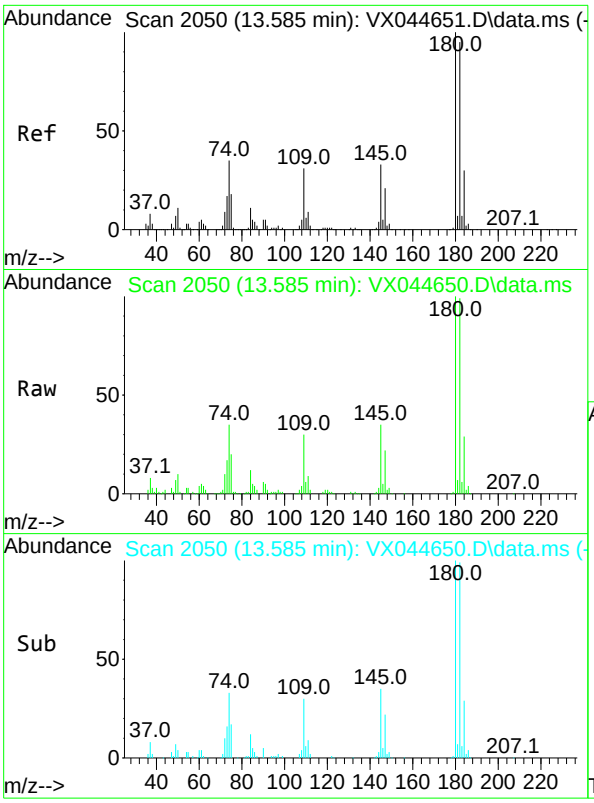



#92
1,2-Dibromo-3-Chloropropane
Concen: 18.572 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 75 Resp: 16770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 79.6 | 39.0 | 116.9 |
| 157 | 99.0 | 49.9 | 149.7 |

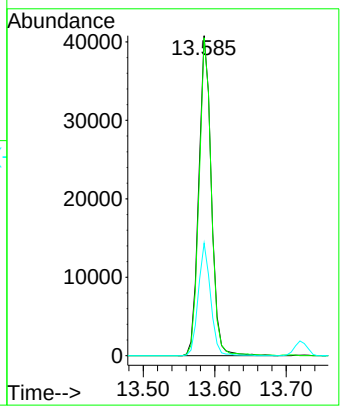





#93
1,2,4-Trichlorobenzene
Concen: 18.595 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:180 Resp: 4947

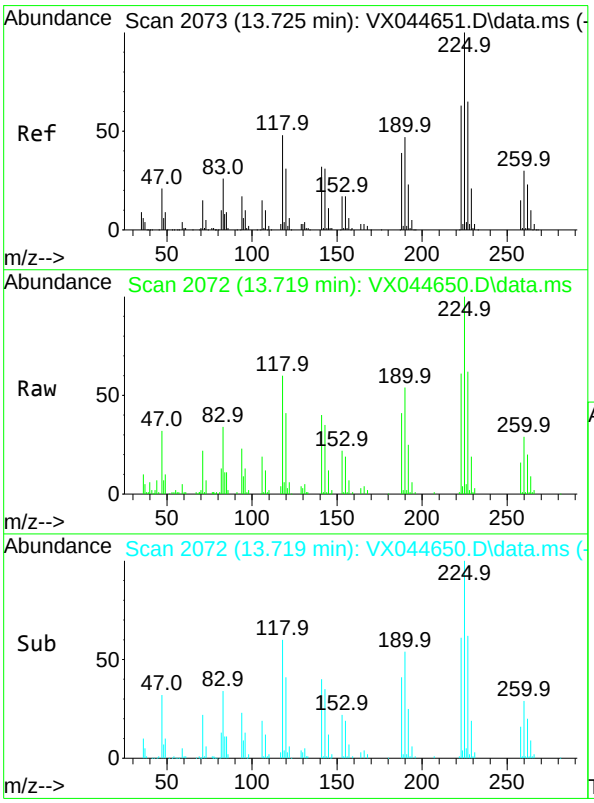
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.1 | 47.4 | 142.2 |
| 145 | 34.5 | 16.7 | 50.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

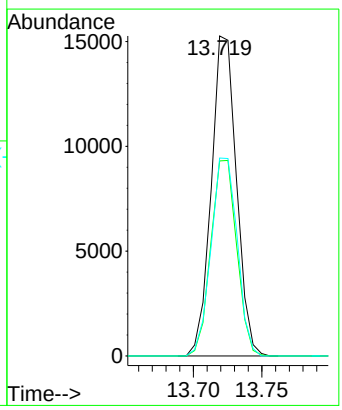
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

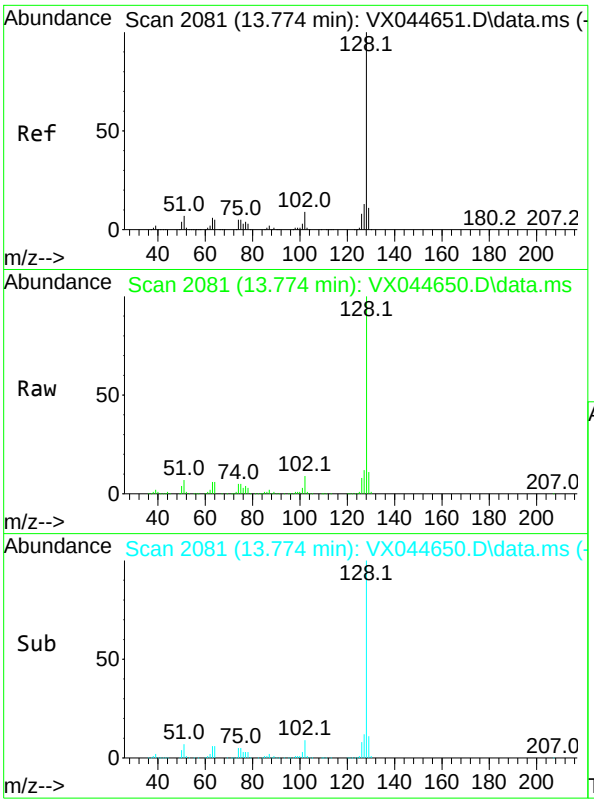



#94
Hexachlorobutadiene
Concen: 18.672 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:225 Resp: 19513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 31.9 | 95.7 |
| 227 | 64.4 | 31.8 | 95.4 |

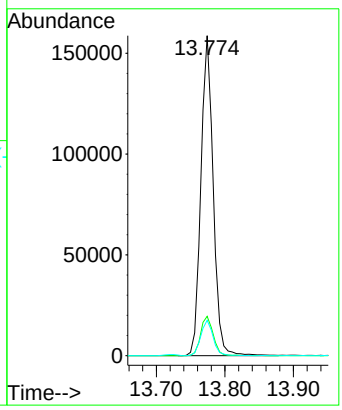





#95
Naphthalene
Concen: 19.372 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:128 Resp: 19876

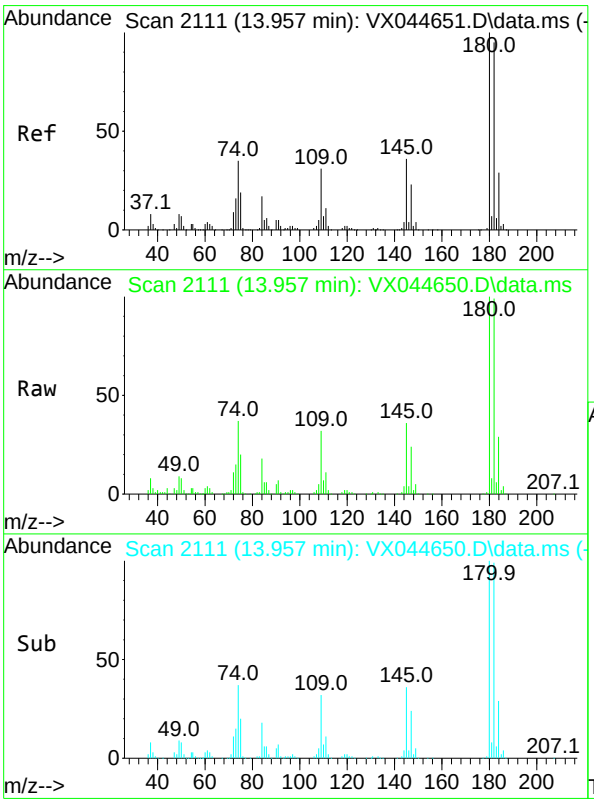
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.3 | 15.5 |
| 129 | 11.1 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

**Manual Integrations**
**APPROVED**

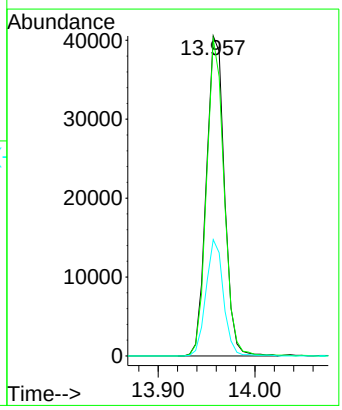
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 19.093 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:180 Resp: 52651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.9 | 47.2 | 141.6 |
| 145 | 35.2 | 17.5 | 52.6 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044651.D
Acq On : 15 Jan 2025 12:02
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:00:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 191095 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 351701 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 301141 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 127832 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 142316 | 49.339 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 98.680% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 111739 | 50.011 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.020% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 390660 | 50.145 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.300% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 148223 | 51.037 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 102.080% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 129814 | 50.482 | ug/l | 100 |
| 3) Chloromethane | 1.300 | 50 | 135661 | 48.786 | ug/l | 100 |
| 4) Vinyl Chloride | 1.374 | 62 | 134180 | 48.836 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 32585 | 49.668 | ug/l | 100 |
| 6) Chloroethane | 1.660 | 64 | 22356 | 44.371 | ug/l | 100 |
| 7) Trichlorofluoromethane | 1.867 | 101 | 146280 | 48.172 | ug/l | 100 |
| 8) Diethyl Ether | 2.136 | 74 | 55843 | 45.569 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 105786 | 46.343 | ug/l | 100 |
| 10) Methyl Iodide | 2.440 | 142 | 154347 | 49.525 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.983 | 59 | 144614m | 222.325 | ug/l | |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 108167 | 48.342 | ug/l | 100 |
| 13) Acrolein | 2.239 | 56 | 64703 | 213.821 | ug/l | 100 |
| 14) Allyl chloride | 2.654 | 41 | 200446 | 46.011 | ug/l | 100 |
| 15) Acrylonitrile | 3.062 | 53 | 298629 | 236.777 | ug/l | 100 |
| 16) Acetone | 2.386 | 43 | 255513 | 223.898 | ug/l | 100 |
| 17) Carbon Disulfide | 2.501 | 76 | 295098 | 48.333 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 168213 | 47.777 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 388306 | 47.913 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 124271 | 46.761 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 108489 | 46.441 | ug/l | 100 |
| 22) Diisopropyl ether | 3.757 | 45 | 363224 | 47.964 | ug/l | 100 |
| 23) Vinyl Acetate | 3.715 | 43 | 1576614 | 237.862 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 215178 | 47.915 | ug/l | 100 |
| 25) 2-Butanone | 4.556 | 43 | 407104 | 239.931 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 201388 | 46.271 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 137091 | 46.654 | ug/l | 100 |
| 28) Bromochloromethane | 4.891 | 49 | 101453 | 48.346 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.001 | 42 | 256051 | 233.952 | ug/l | 100 |
| 30) Chloroform | 5.086 | 83 | 218193 | 48.144 | ug/l | 100 |
| 31) Cyclohexane | 5.458 | 56 | 177904 | 48.981 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 190478 | 45.718 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 143445 | 46.120 | ug/l | 100 |
| 37) Ethyl Acetate | 4.708 | 43 | 162853 | 49.168 | ug/l | 100 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 161882 | 46.273 | ug/l | 100 |
| 39) Methylcyclohexane | 7.373 | 83 | 193759 | 46.929 | ug/l | 100 |
| 40) Benzene | 6.031 | 78 | 459433 | 47.670 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044651.D
Acq On : 15 Jan 2025 12:02
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:00:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 89498 | 47.017 | ug/l | 100 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 167878 | 47.725 | ug/l | 100 |
| 43) Isopropyl Acetate | 6.336 | 43 | 286693 | 47.053 | ug/l | 100 |
| 44) Trichloroethene | 7.116 | 130 | 111112 | 47.956 | ug/l | 100 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 115621 | 47.660 | ug/l | 100 |
| 46) Dibromomethane | 7.574 | 93 | 86455 | 46.813 | ug/l | 100 |
| 47) Bromodichloromethane | 7.818 | 83 | 178531 | 47.138 | ug/l | 100 |
| 48) Methyl methacrylate | 7.690 | 41 | 140450 | 49.659 | ug/l | 100 |
| 49) 1,4-Dioxane | 7.665 | 88 | 55679 | 943.583 | ug/l | 100 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 790152 | 234.662 | ug/l | 100 |
| 52) Toluene | 8.714 | 92 | 283156 | 48.001 | ug/l | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 191876 | 49.036 | ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 201804 | 47.563 | ug/l | 100 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 112274 | 47.043 | ug/l | 100 |
| 56) Ethyl methacrylate | 9.116 | 69 | 198422 | 48.353 | ug/l | 100 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 195182 | 48.025 | ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 479521 | 238.018 | ug/l | 100 |
| 59) 2-Hexanone | 9.433 | 43 | 580029 | 234.142 | ug/l | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 133941 | 47.816 | ug/l | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 118382 | 47.331 | ug/l | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 89149 | 47.145 | ug/l | 100 |
| 65) Chlorobenzene | 10.073 | 112 | 303658 | 47.474 | ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 110395 | 47.490 | ug/l | 100 |
| 67) Ethyl Benzene | 10.189 | 91 | 535714 | 48.000 | ug/l | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 395084 | 95.393 | ug/l | 100 |
| 69) o-Xylene | 10.640 | 106 | 200396 | 47.845 | ug/l | 100 |
| 70) Styrene | 10.652 | 104 | 327844 | 48.481 | ug/l | 100 |
| 71) Bromoform | 10.799 | 173 | 90837 | 48.011 | ug/l | 100 |
| 73) Isopropylbenzene | 10.957 | 105 | 500669 | 47.943 | ug/l | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 242893 | 47.188 | ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 166468 | 46.155 | ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 140834m | 46.648 | ug/l | |
| 77) Bromobenzene | 11.195 | 156 | 115377 | 47.268 | ug/l | 100 |
| 78) n-propylbenzene | 11.299 | 91 | 561396 | 48.746 | ug/l | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 353178 | 47.474 | ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 407362 | 47.918 | ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 65476 | 48.266 | ug/l | 100 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 393120 | 48.238 | ug/l | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 422348 | 47.513 | ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 410477 | 47.515 | ug/l | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 497964 | 48.113 | ug/l | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 411853 | 48.421 | ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 206233 | 48.720 | ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 201574 | 47.960 | ug/l | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 358698 | 49.100 | ug/l | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 88230 | 45.808 | ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 207903 | 47.824 | ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 39659 | 44.962 | ug/l | 100 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 131779 | 50.708 | ug/l | 100 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 50255 | 49.230 | ug/l | 100 |
| 95) Naphthalene | 13.774 | 128 | 487525 | 48.639 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 134816 | 50.047 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044651.D
Acq On : 15 Jan 2025 12:02
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:00:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
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_X\Data\VX011525\
Data File : VX044651.D
Acq On : 15 Jan 2025 12:02
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 16 01:00:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
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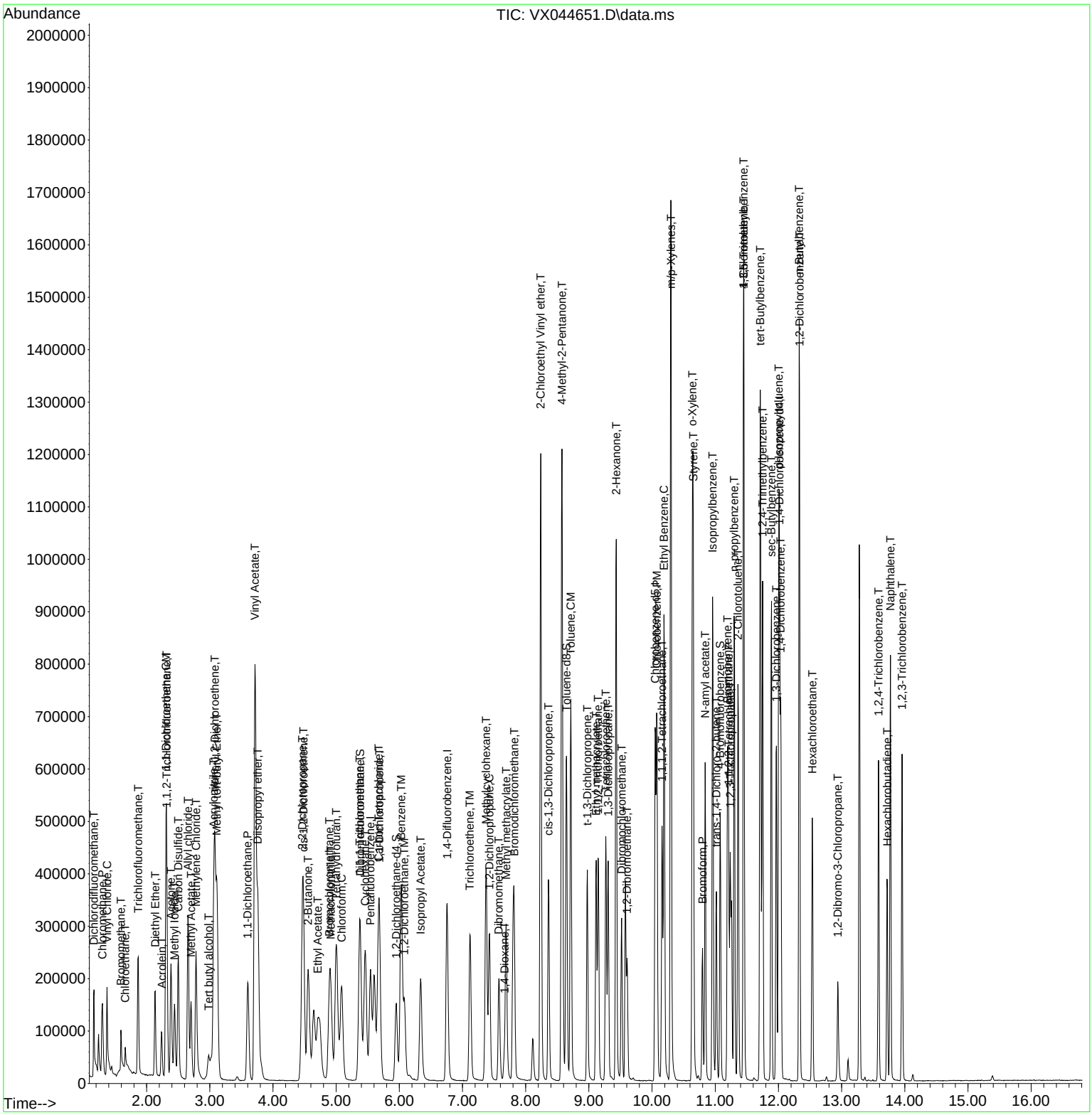
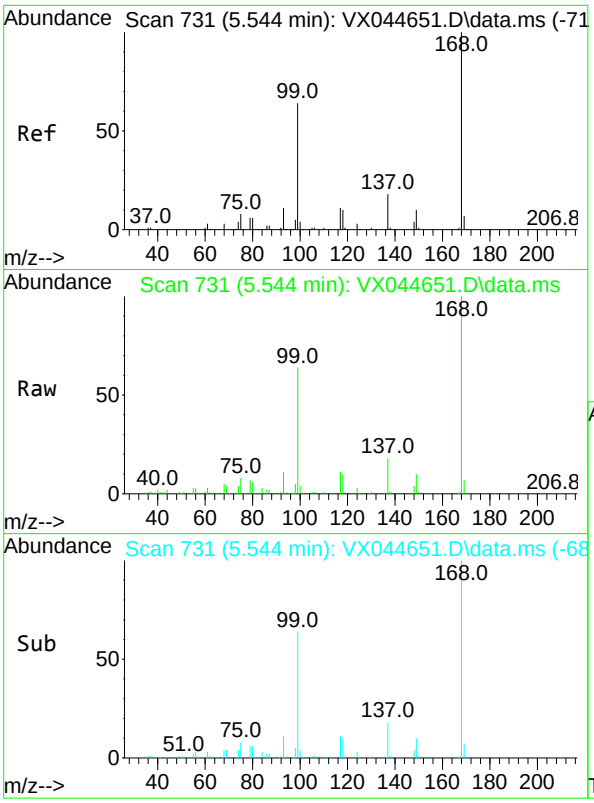
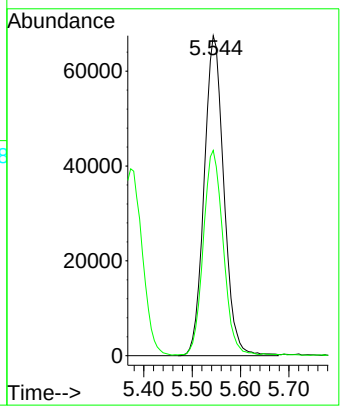





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:168 Resp: 19109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.9 | 51.1 | 76.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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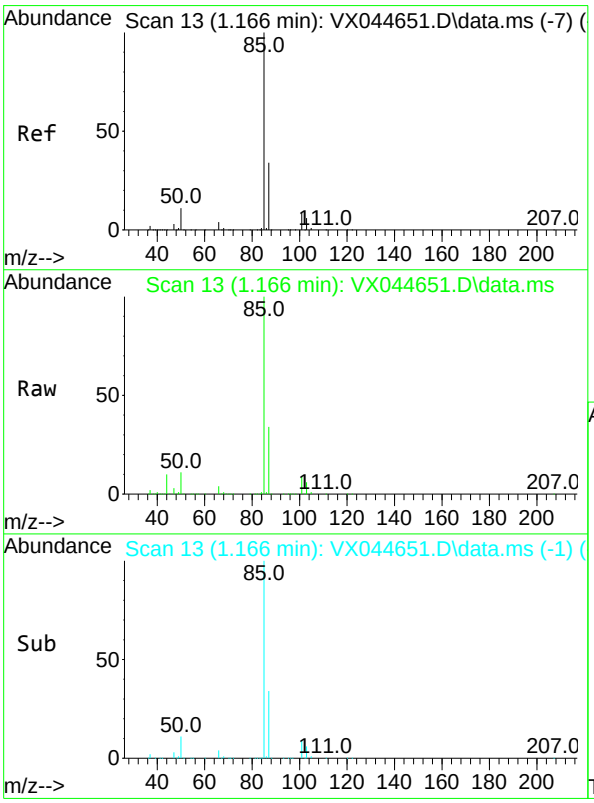
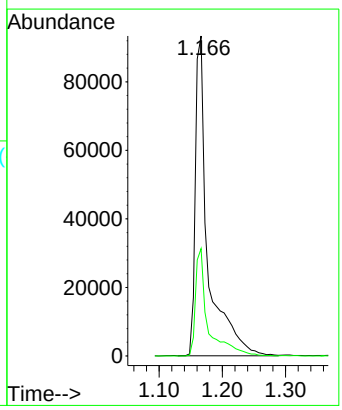
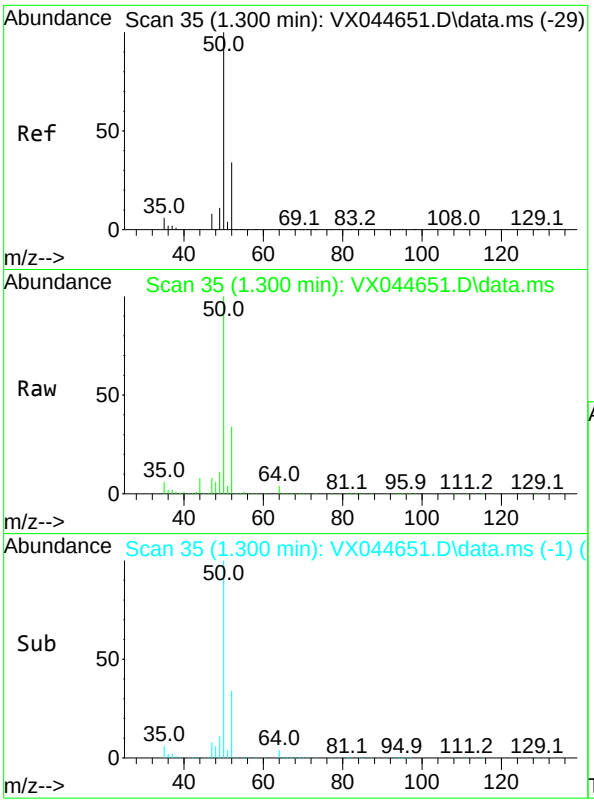



#2
Dichlorodifluoromethane
Concen: 50.482 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 85 Resp: 129814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.6 | 16.8 | 50.4 |

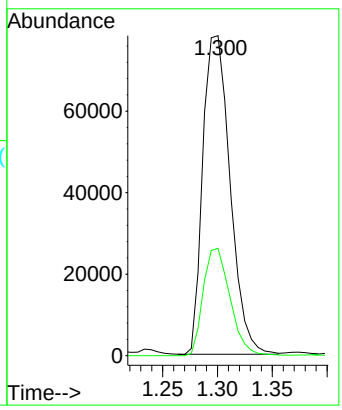





#3
Chloromethane
Concen: 48.786 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 50 Resp: 13566

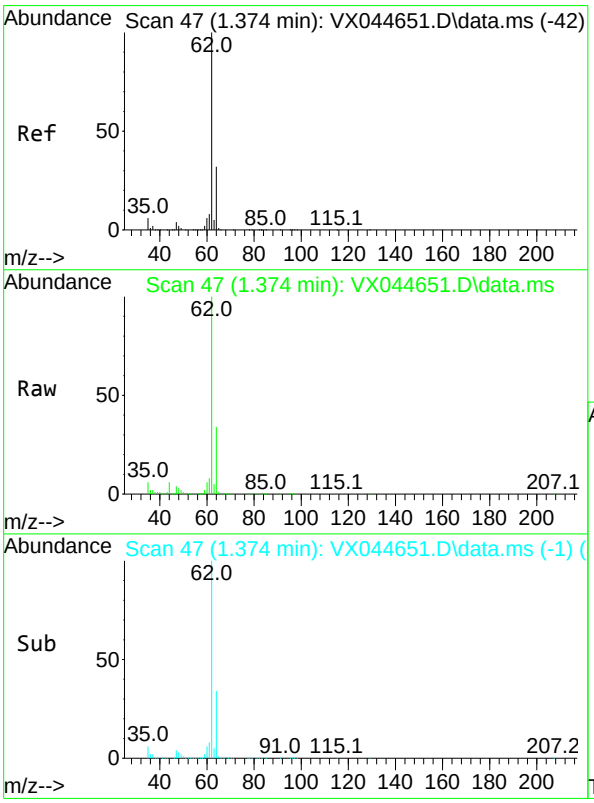
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.7 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

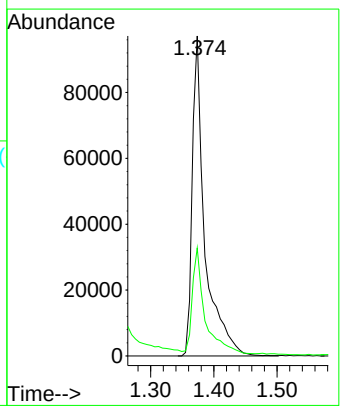
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

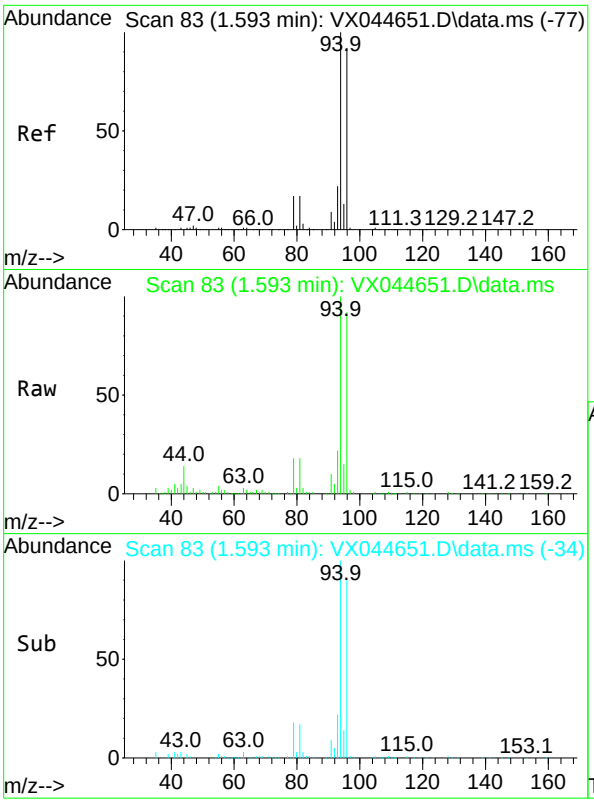



#4
Vinyl Chloride
Concen: 48.836 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 62 Resp: 134180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.2 | 26.6 | 39.8 |

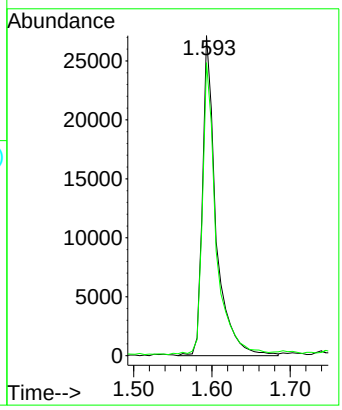





#5
Bromomethane
Concen: 49.668 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 94 Resp: 3258

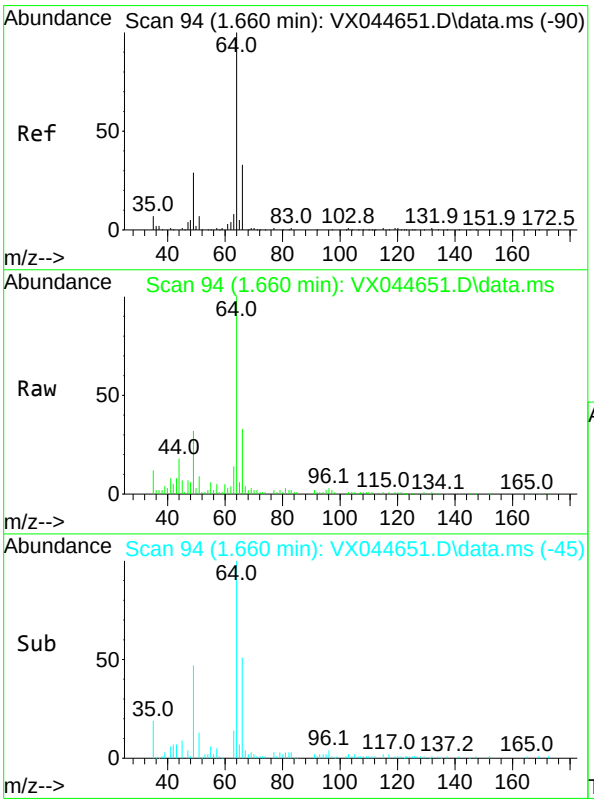
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.0 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

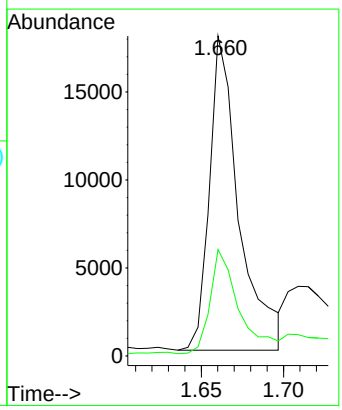
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

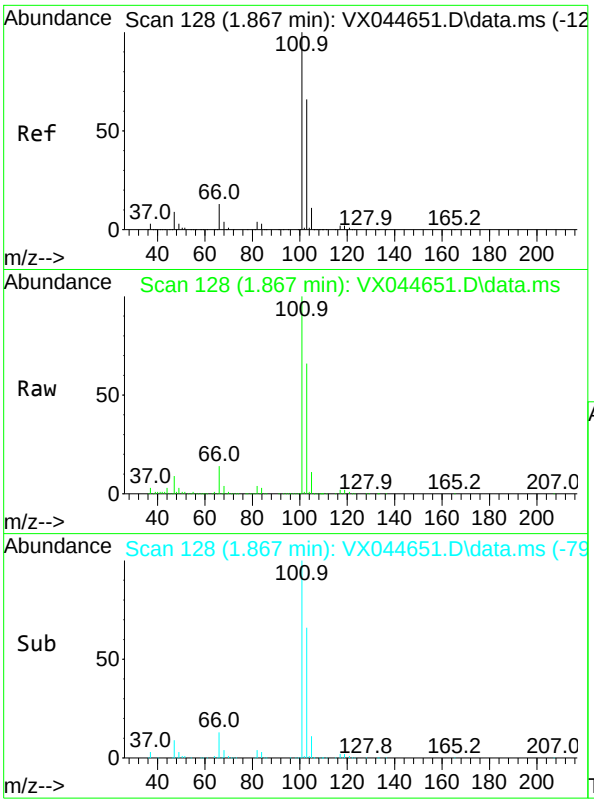



#6
Chloroethane
Concen: 44.371 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 64 Resp: 22356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.2 | 26.6 | 39.8 |

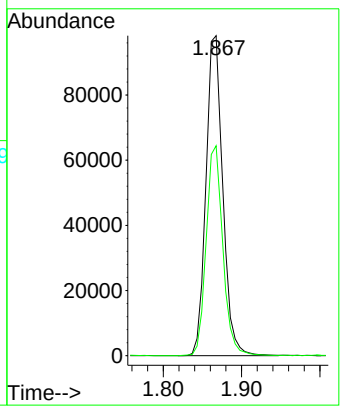





#7
Trichlorofluoromethane
Concen: 48.172 ug/l
RT: 1.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:101 Resp: 14628

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.6 | 52.5 | 78.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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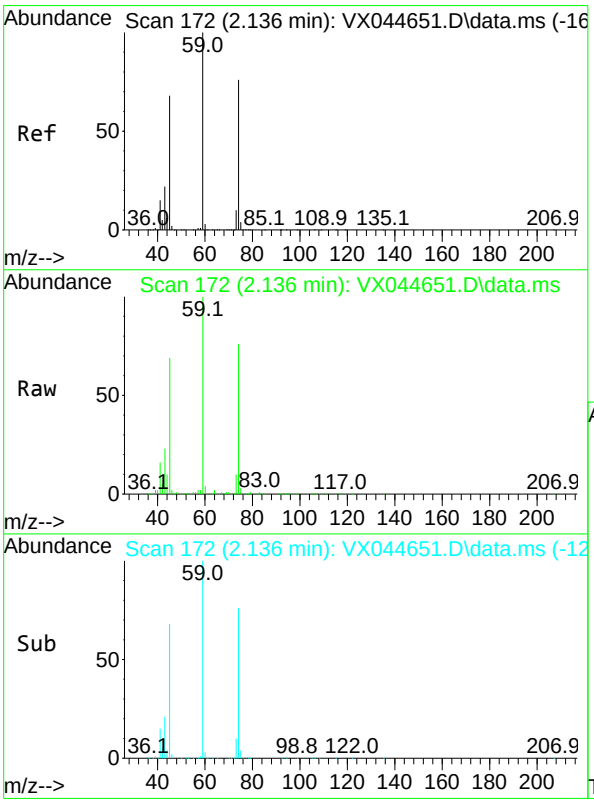
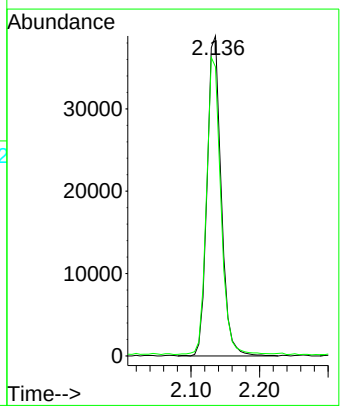
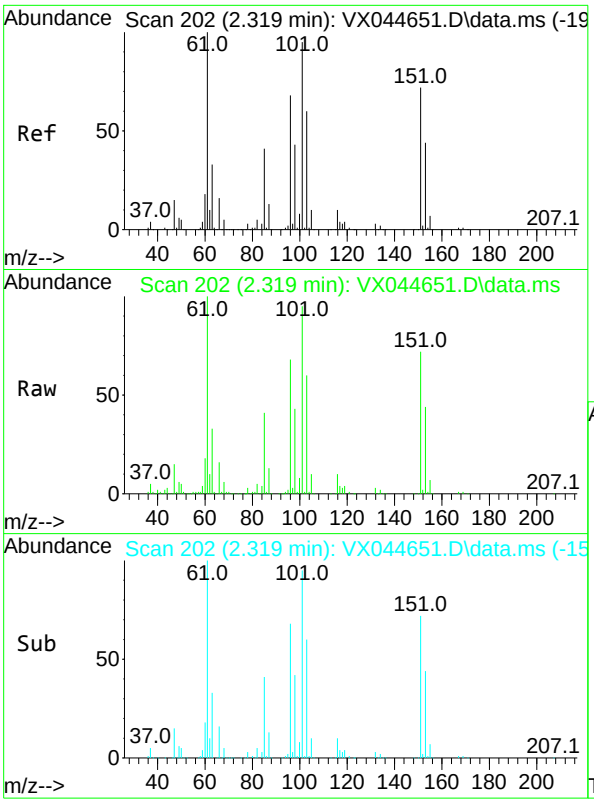



#8
Diethyl Ether
Concen: 45.569 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 74 Resp: 55843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 94.2 | 47.1 | 141.3 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.343 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:101 Resp: 10578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 35.3 | 52.9 |
| 151 | 72.8 | 58.2 | 87.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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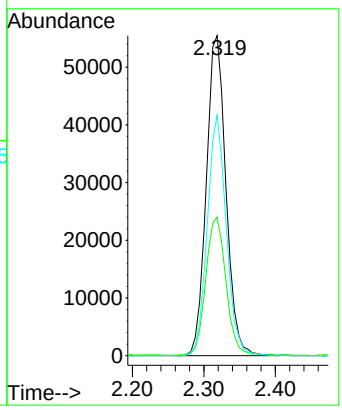
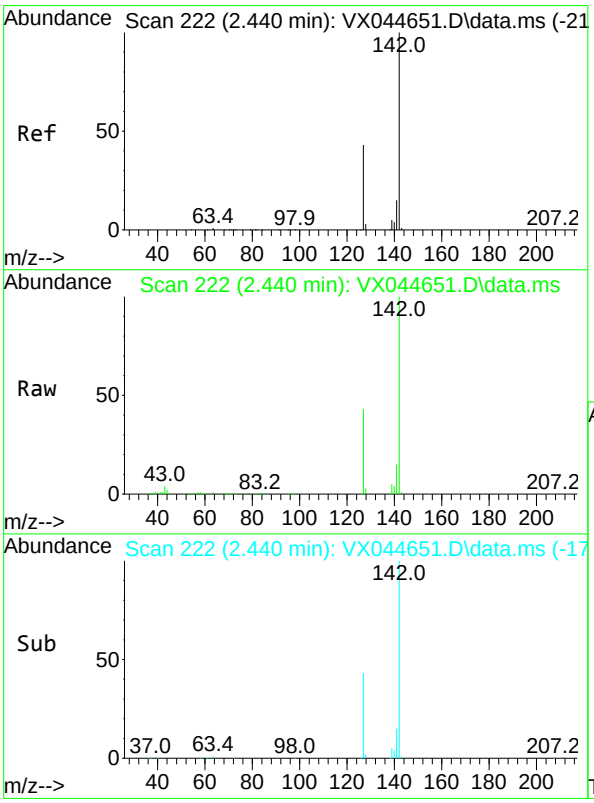
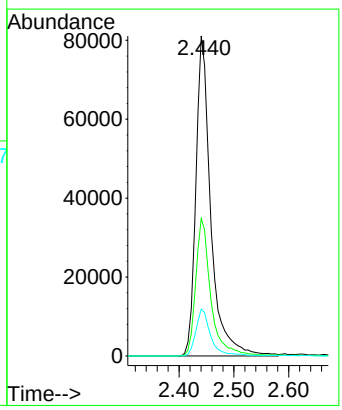


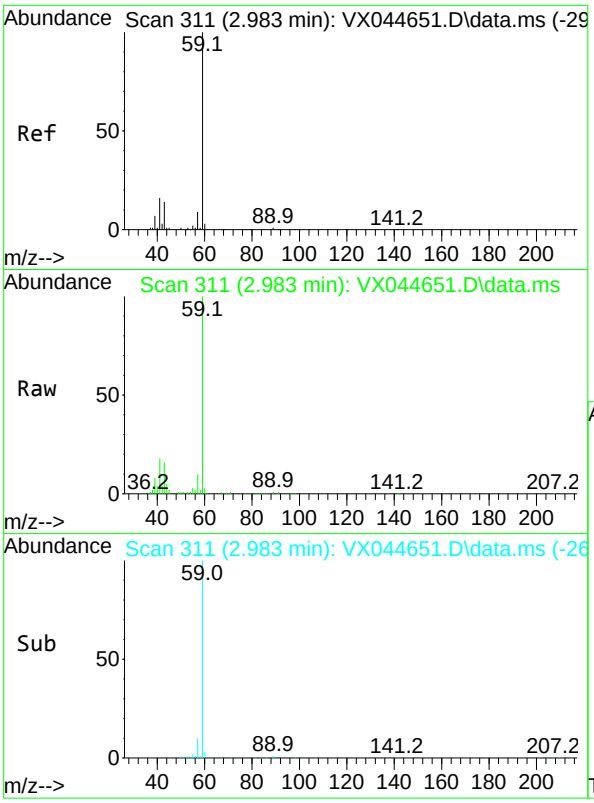




#10
Methyl Iodide
Concen: 49.525 ug/l
RT: 2.440 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:142 Resp: 154347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.7 | 35.0 | 52.4 |
| 141 | 14.6 | 11.7 | 17.5 |

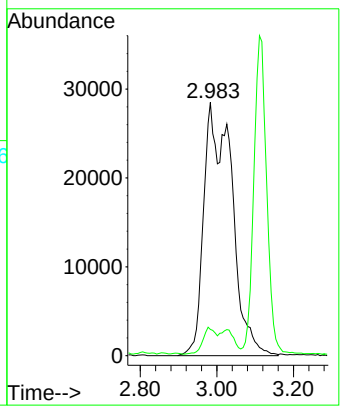





#11
Tert butyl alcohol
Concen: 222.325 ug/l m
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 59 Resp: 14461

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 4.9 | 3.9 | 5.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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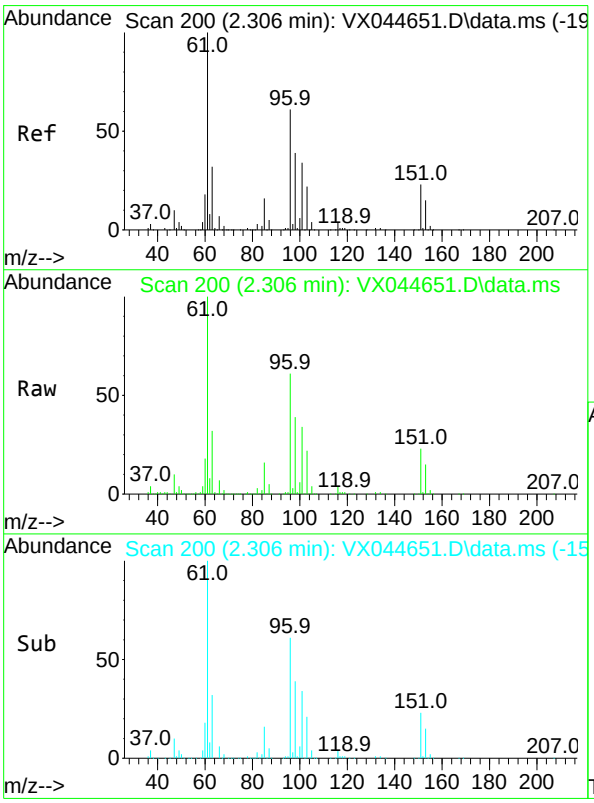
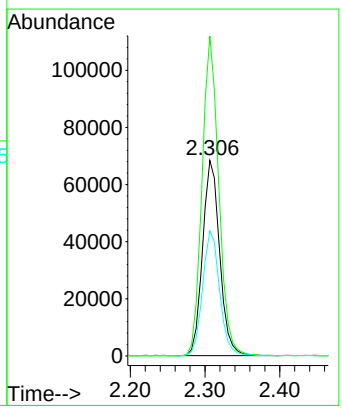
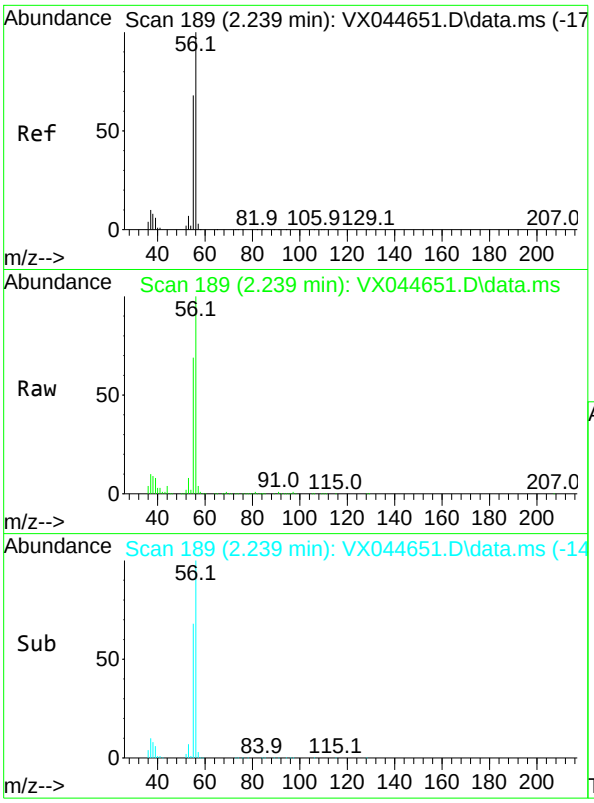



#12
1,1-Dichloroethene
Concen: 48.342 ug/l
RT: 2.306 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 96 Resp: 108167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 163.9 | 131.1 | 196.7 |
| 98 | 64.0 | 51.2 | 76.8 |






#13
Acrolein
Concen: 213.821 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 56 Resp: 6470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.9 | 55.1 | 82.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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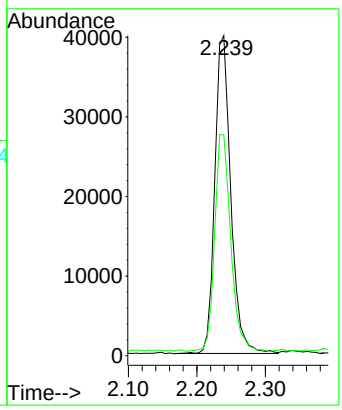
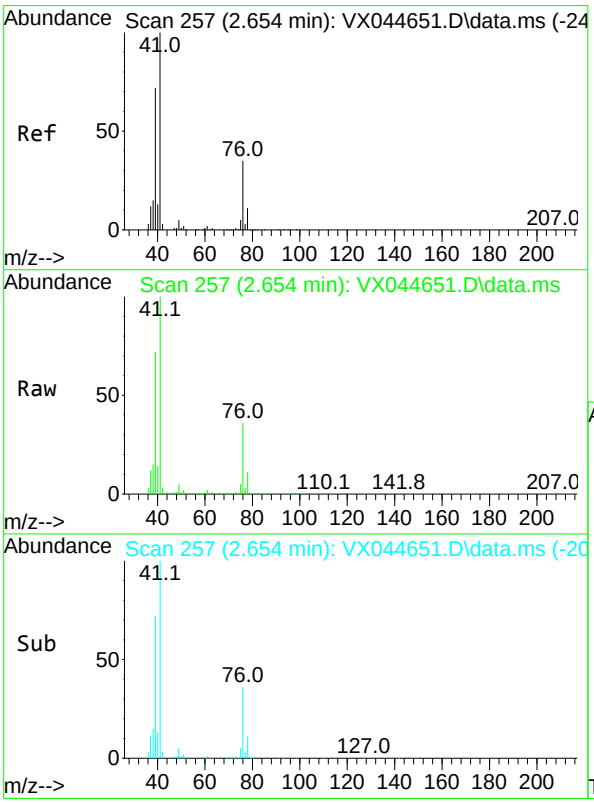
Supervised By :Semsettin Yesilyurt 01/16/2025

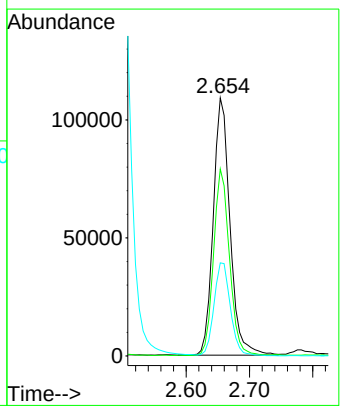


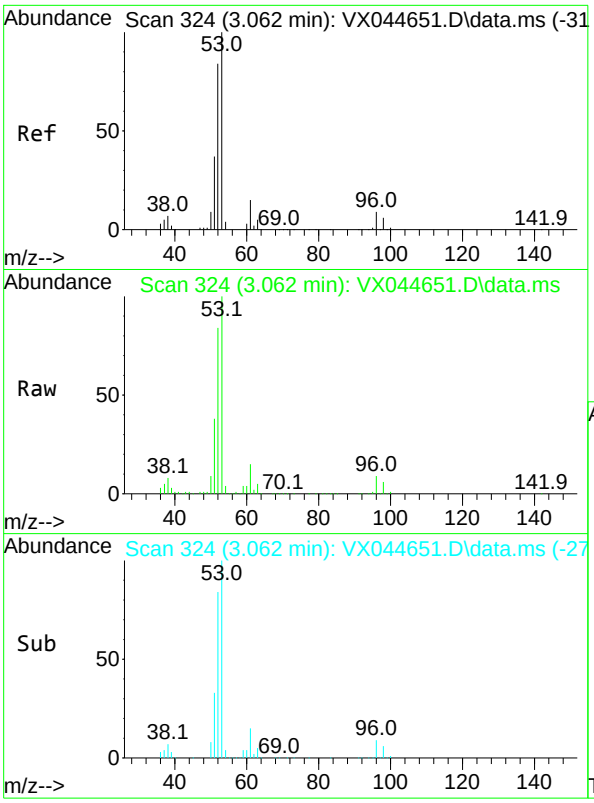




#14
Allyl chloride
Concen: 46.011 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 41 Resp: 200446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.6 | 54.9 | 82.3 |
| 76 | 35.5 | 28.4 | 42.6 |

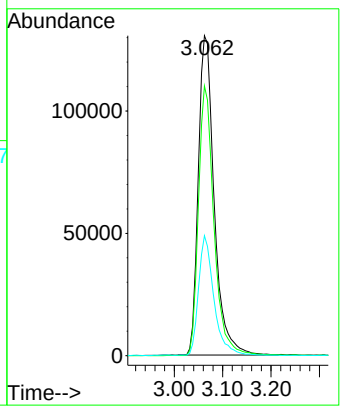





#15
Acrylonitrile
Concen: 236.777 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 53 Resp: 29862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.5 | 66.0 | 99.0 |
| 51 | 36.1 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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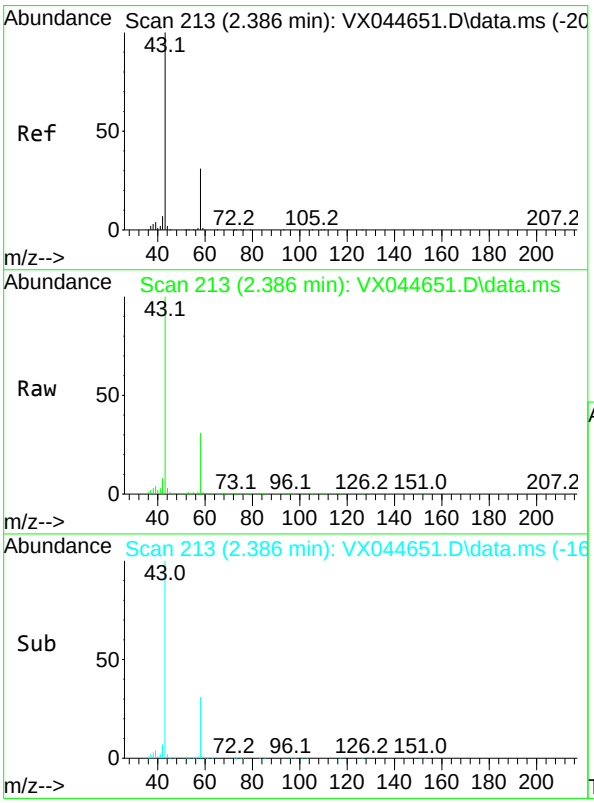
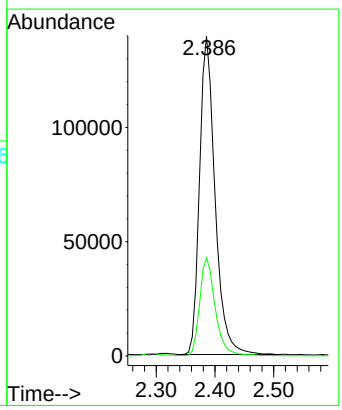
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

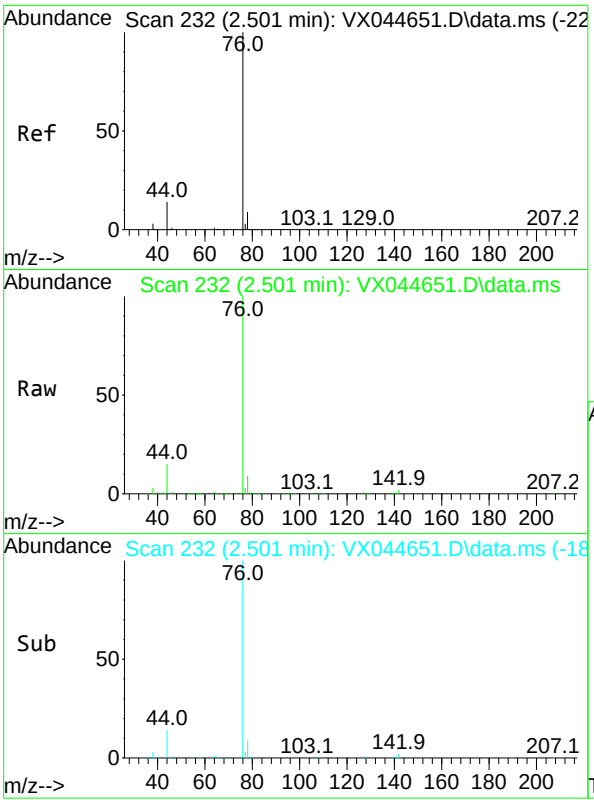



#16
Acetone
Concen: 223.898 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 255513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.8 | 24.6 | 37.0 |

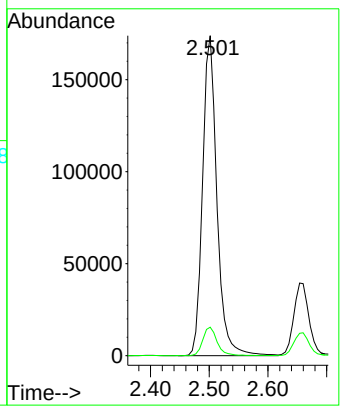





#17
Carbon Disulfide
Concen: 48.333 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 76 Resp: 29509

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.1 | 10.7 |




**Instrument :**
MSVOA_X
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VSTDICCC050

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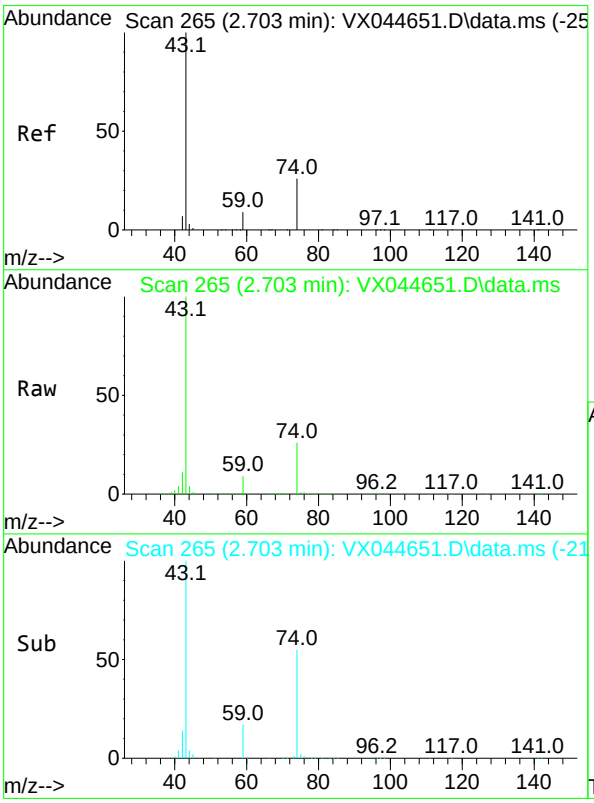
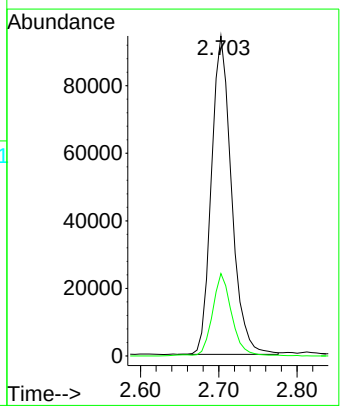
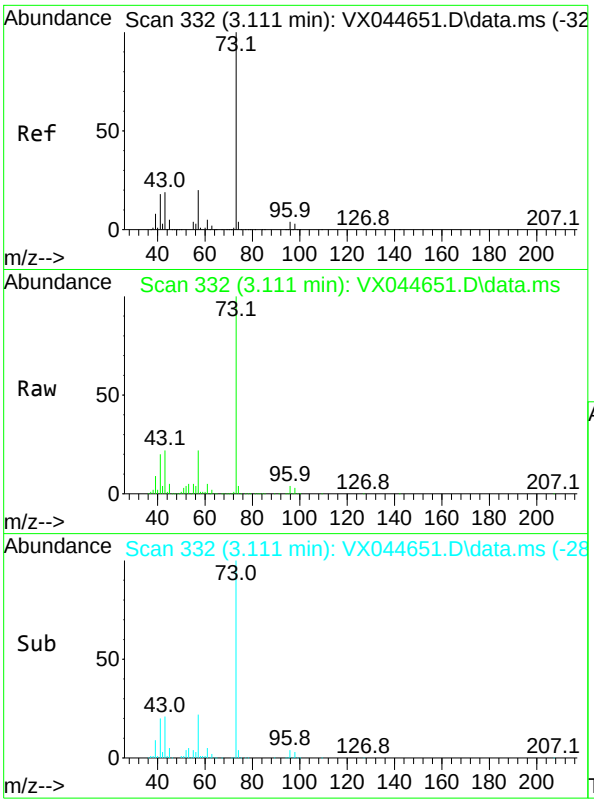



#18
Methyl Acetate
Concen: 47.777 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 168213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.8 | 19.8 | 29.8 |

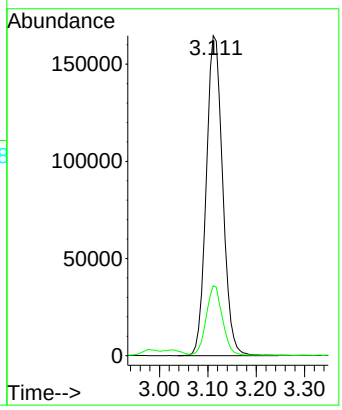





#19
Methyl tert-butyl Ether
Concen: 47.913 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 73 Resp: 38830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.7 | 17.4 | 26.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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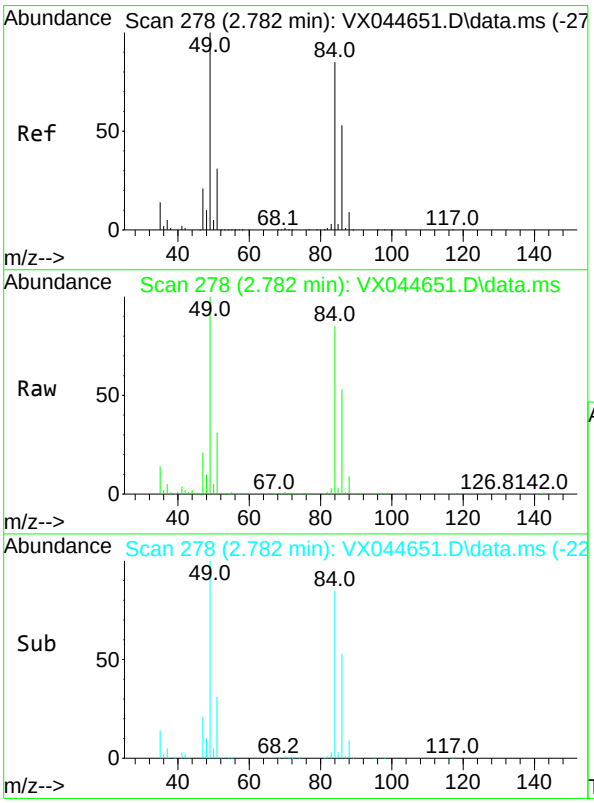
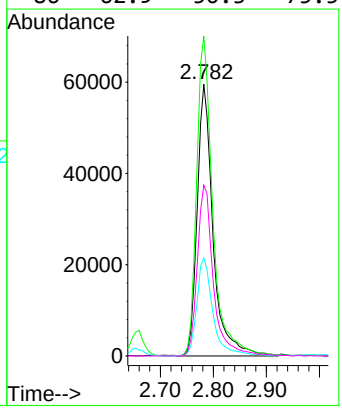
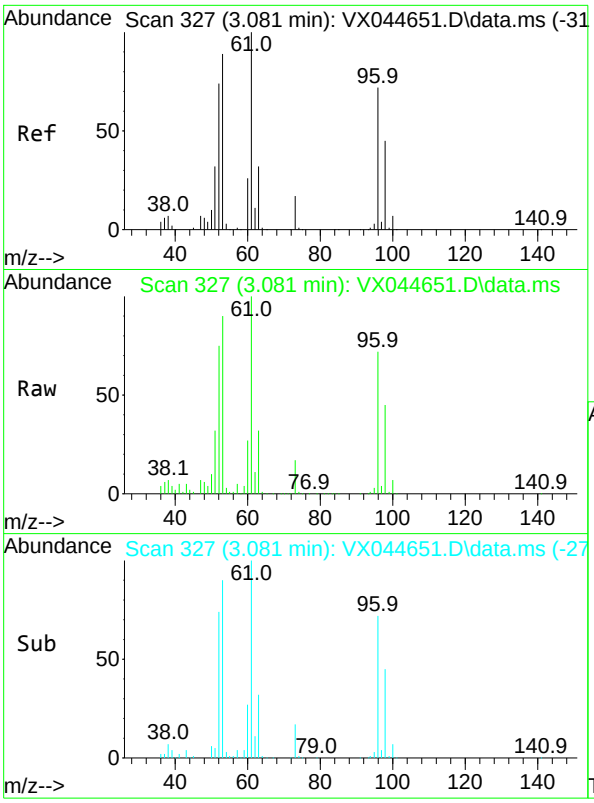



#20
Methylene Chloride
Concen: 46.761 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 84 Resp: 124271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.8 | 94.2 | 141.4 |
| 51 | 36.0 | 28.8 | 43.2 |
| 86 | 62.9 | 50.3 | 75.5 |

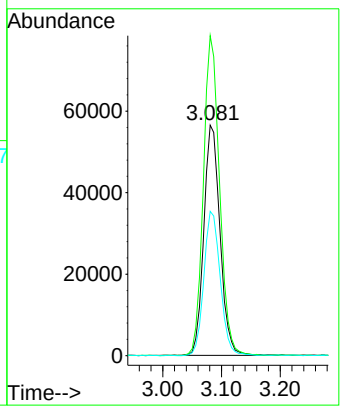





#21
trans-1,2-Dichloroethene
Concen: 46.441 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 96 Resp: 10848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.8 | 111.0 | 166.6 |
| 98 | 62.7 | 50.2 | 75.2 |




**Instrument :**
MSVOA_X
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VSTDICCC050

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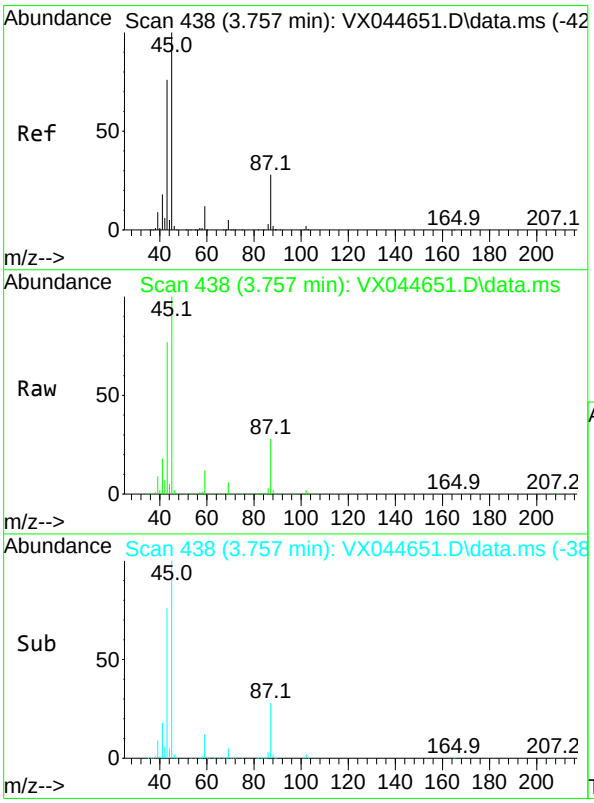
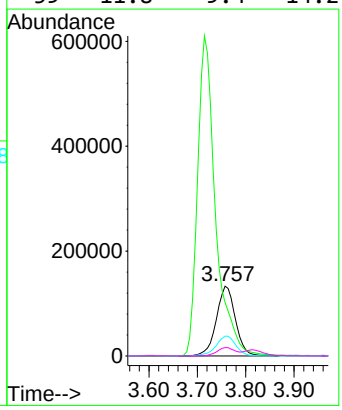
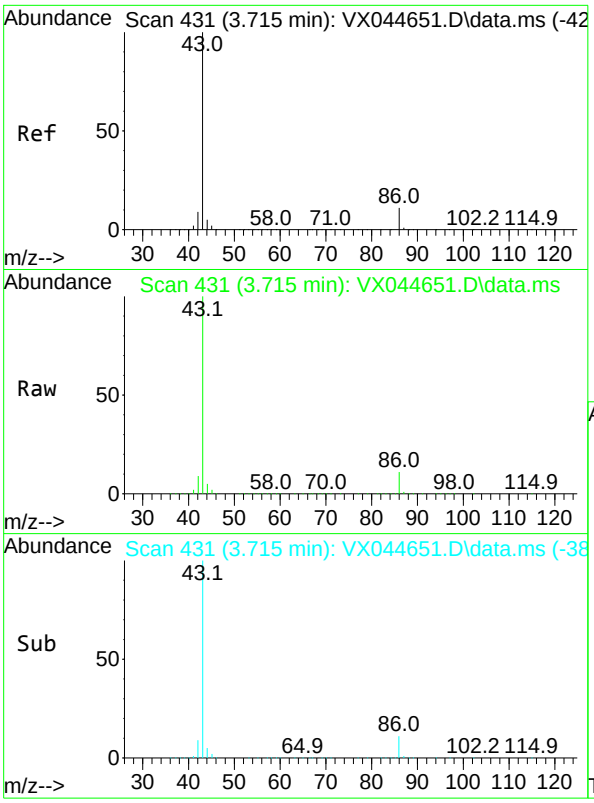



#22
Diisopropyl ether
Concen: 47.964 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 45 Resp: 363224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 76.3 | 61.0 | 91.6 |
| 87 | 28.4 | 22.7 | 34.1 |
| 59 | 11.8 | 9.4 | 14.2 |






#23
Vinyl Acetate
Concen: 237.862 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 157661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.1 | 8.9 | 13.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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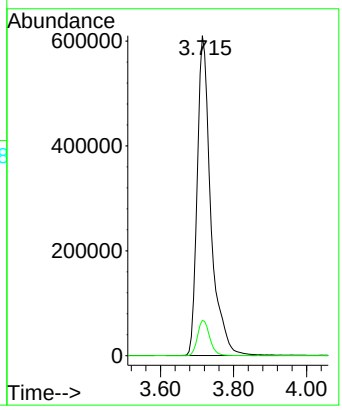
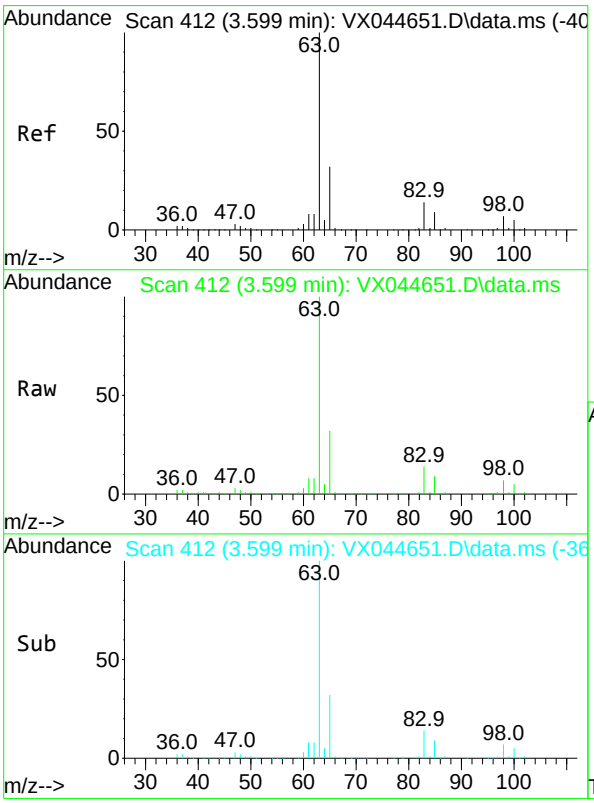
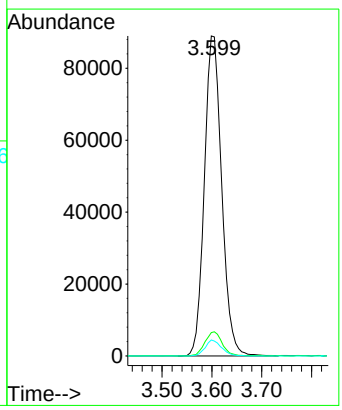


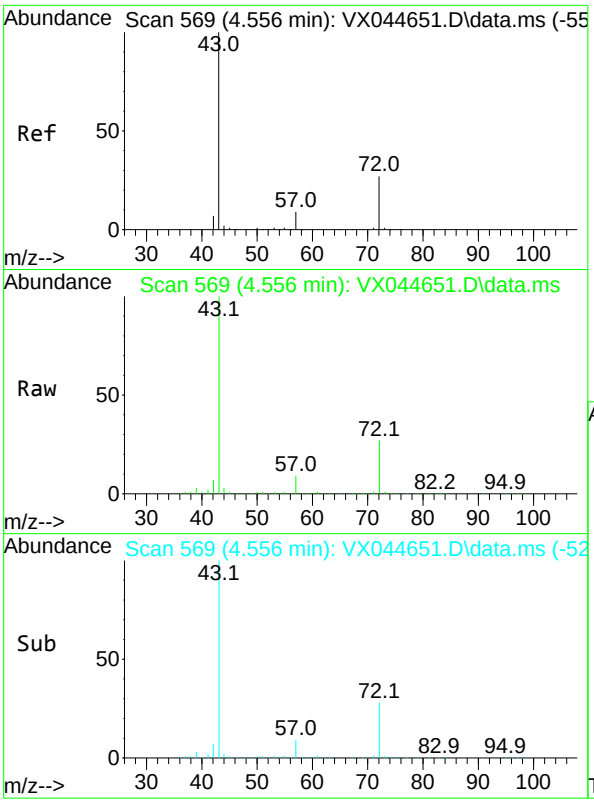




#24
1,1-Dichloroethane
Concen: 47.915 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 63 Resp: 215178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.3 | 3.6 | 10.9 |
| 100 | 5.0 | 2.5 | 7.5 |

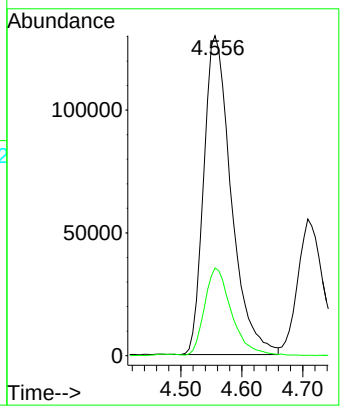





#25
2-Butanone
Concen: 239.931 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 40710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 21.7 | 32.5 |

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MSVOA_X
**ClientSampleId :**
VSTDICCC050

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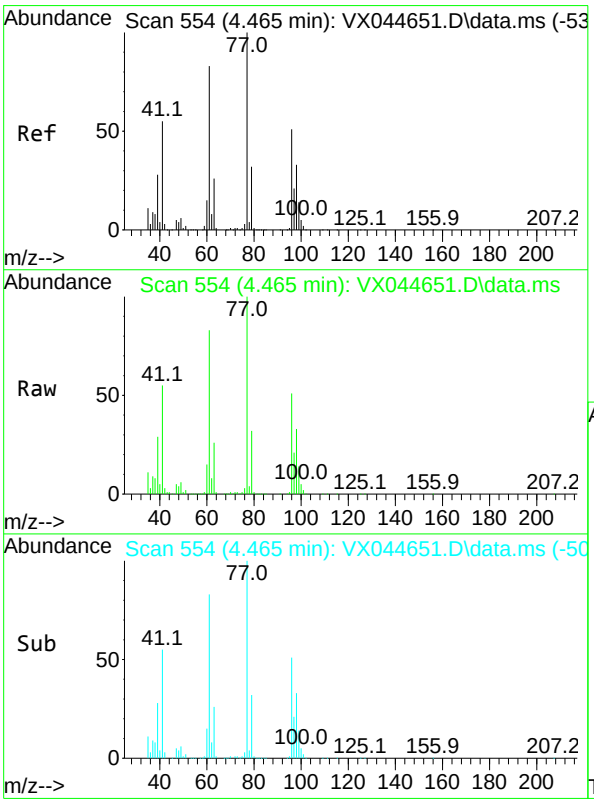
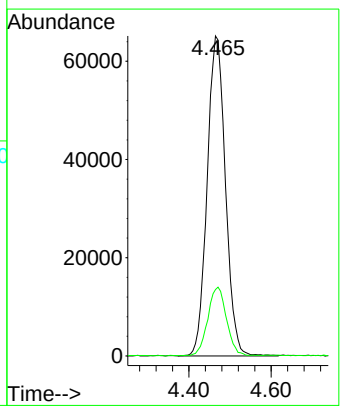
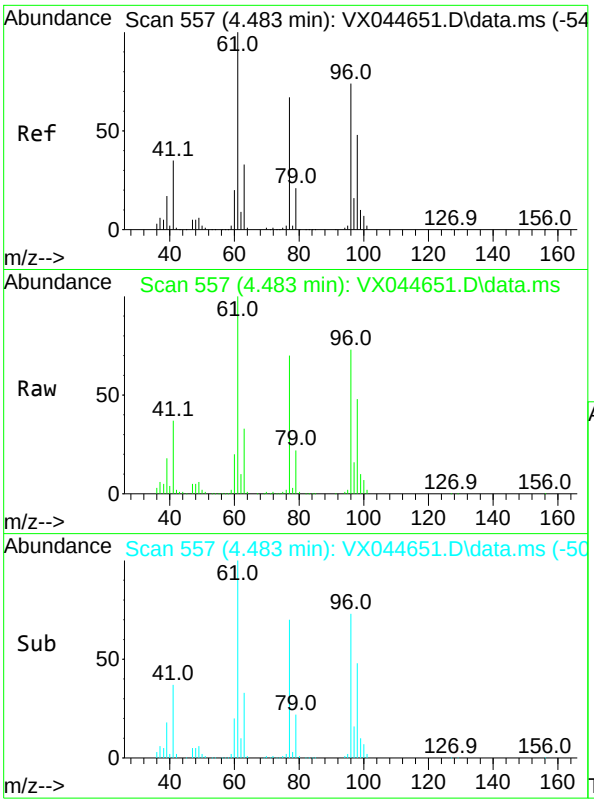



#26
2,2-Dichloropropane
Concen: 46.271 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 77 Resp: 201388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.7 | 10.9 | 32.6 |

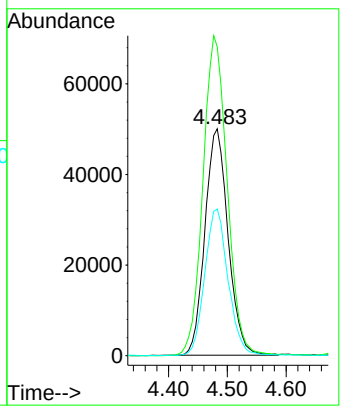





#27
cis-1,2-Dichloroethene
Concen: 46.654 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 96 Resp: 13709

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.0 | 0.0 | 296.0 |
| 98 | 65.0 | 0.0 | 130.0 |




**Instrument :**
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**ClientSampleId :**
VSTDICCC050

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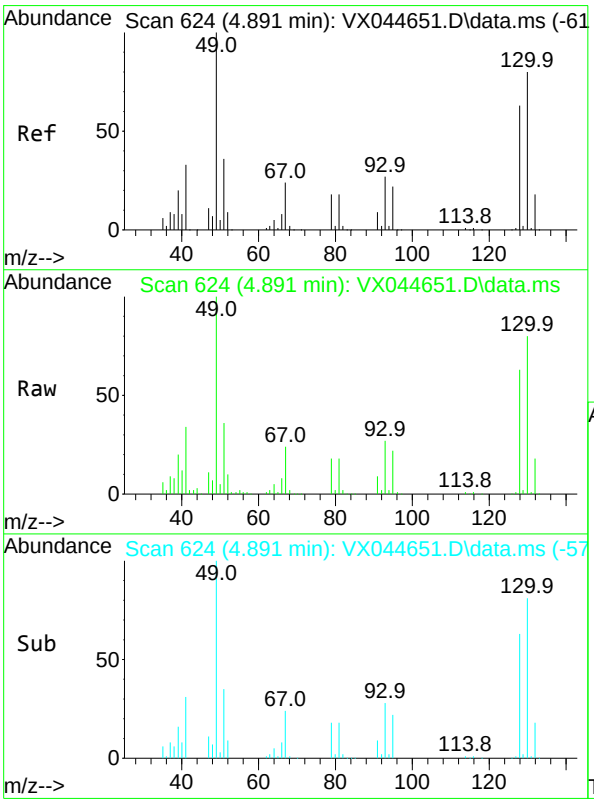
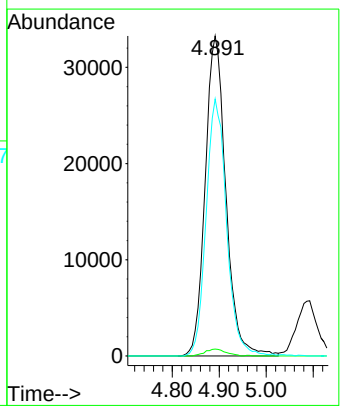
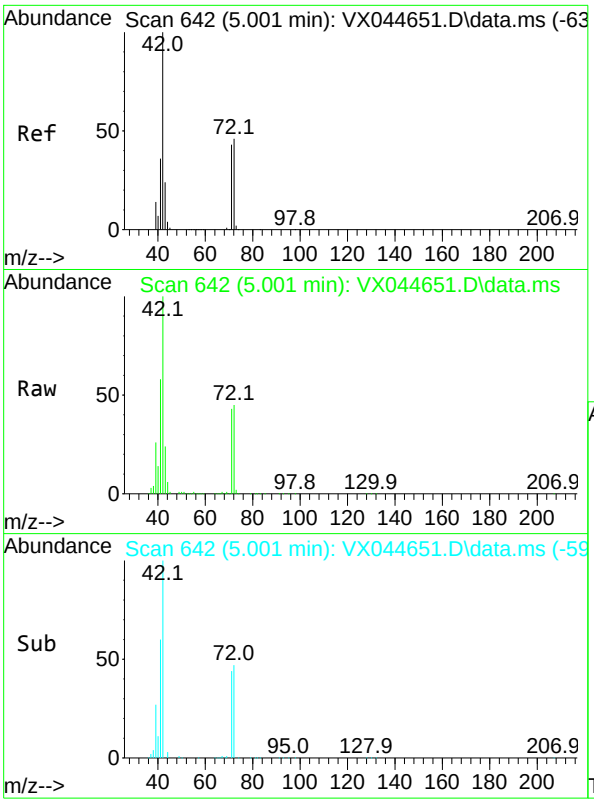



#28
Bromochloromethane
Concen: 48.346 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 49 Resp: 101453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.4 |
| 130 | 79.3 | 63.4 | 95.2 |

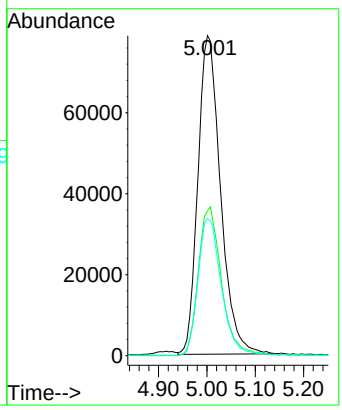





#29
Tetrahydrofuran
Concen: 233.952 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 42 Resp: 25605

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.8 | 38.2 | 57.4 |
| 71 | 44.1 | 35.3 | 52.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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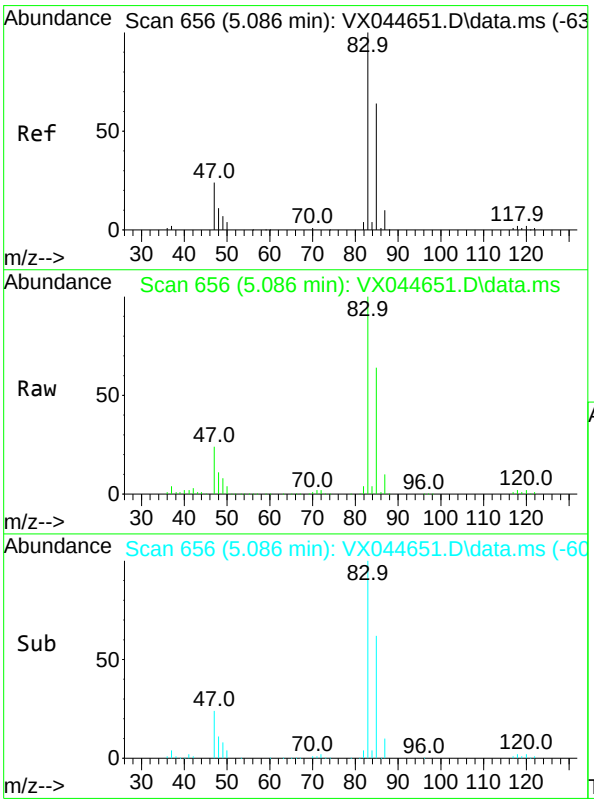
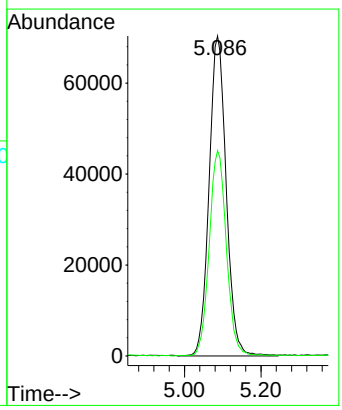
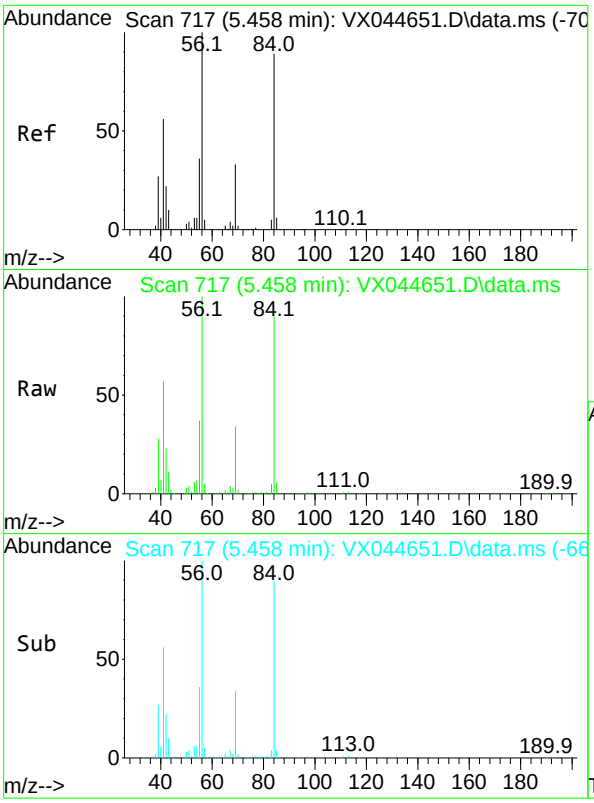



#30
Chloroform
Concen: 48.144 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 83 Resp: 218193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 51.2 | 76.8 |

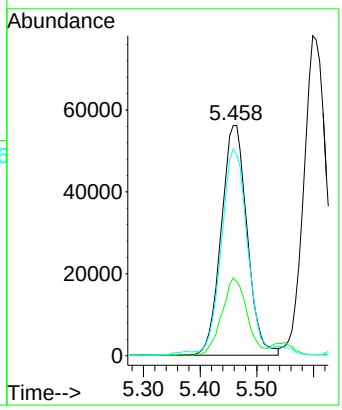





#31
Cyclohexane
Concen: 48.981 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 56 Resp: 17790

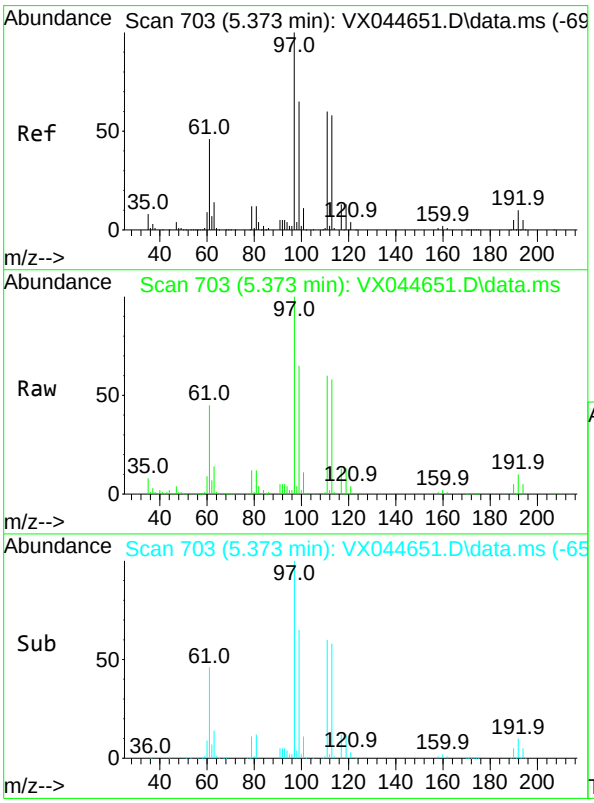
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.5 | 26.8 | 40.2 |
| 84 | 88.7 | 71.0 | 106.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

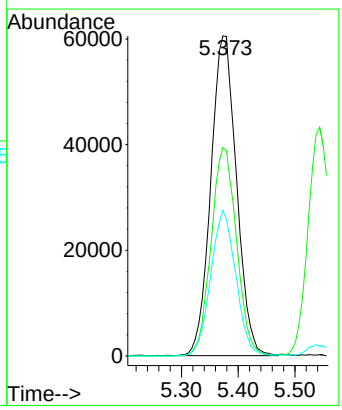
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

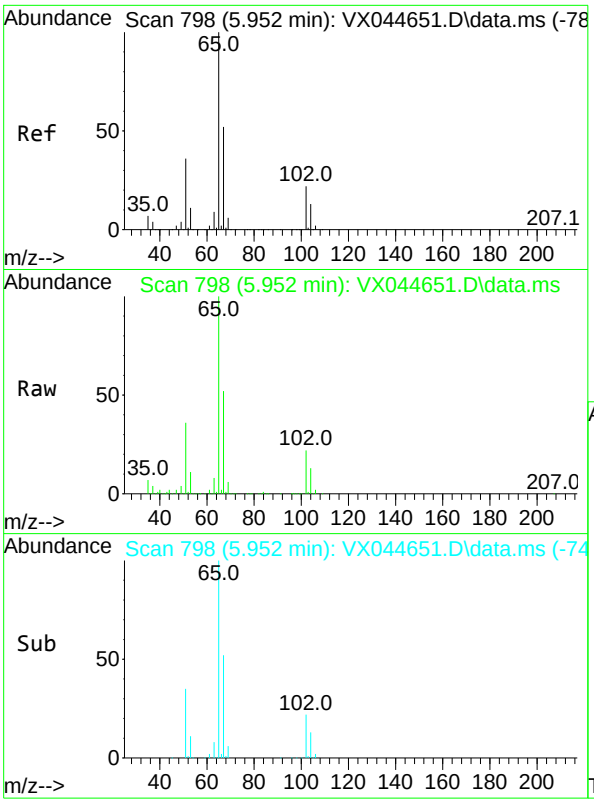



#32
1,1,1-Trichloroethane
Concen: 45.718 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 97 Resp: 190478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 44.5 | 35.6 | 53.4 |

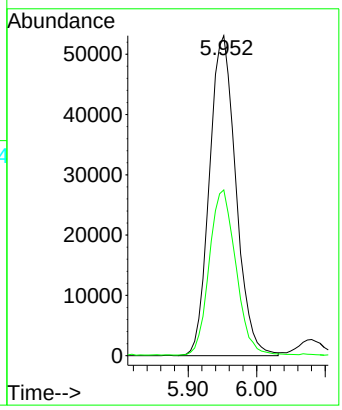





#33
1,2-Dichloroethane-d4
Concen: 49.339 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 65 Resp: 14231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.7 | 0.0 | 103.4 |

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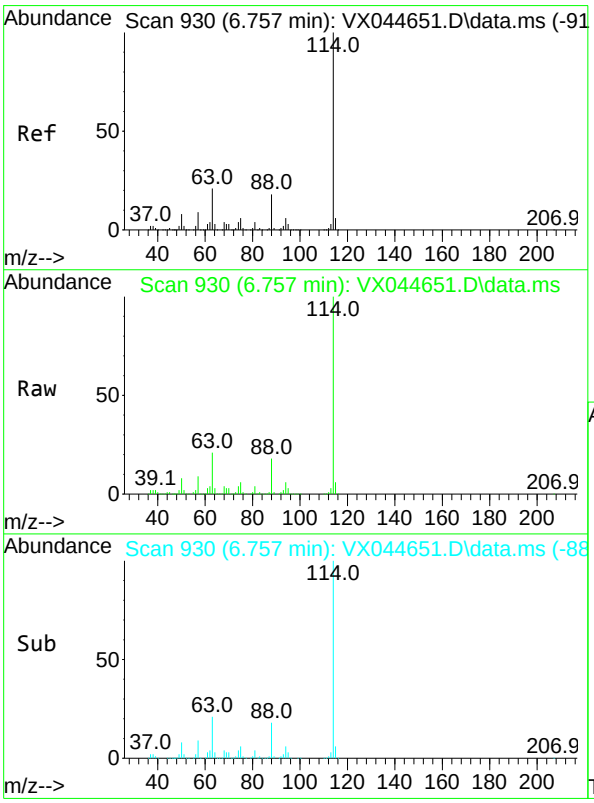
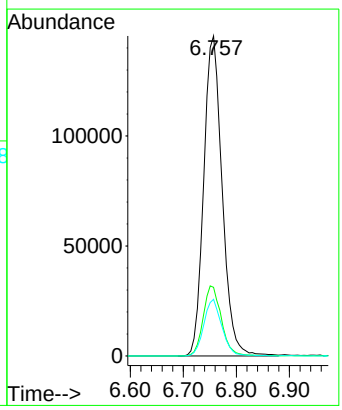
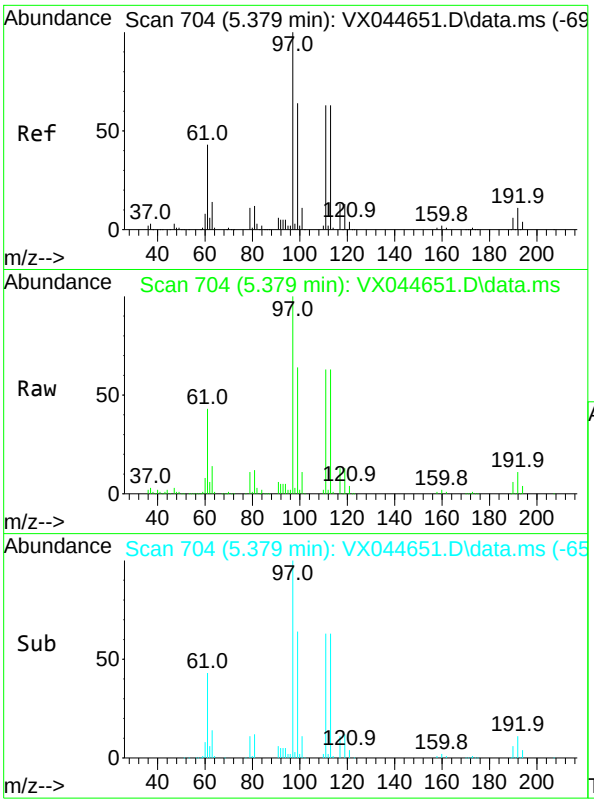



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:114 Resp: 351701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.5 | 0.0 | 43.0 |
| 88 | 17.7 | 0.0 | 35.4 |

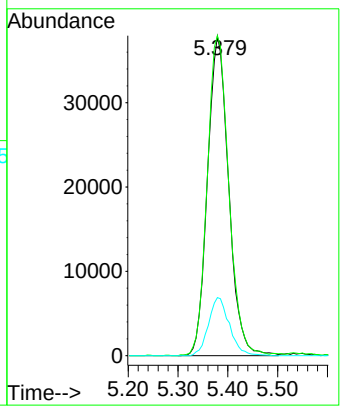





#35
Dibromofluoromethane
Concen: 50.011 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:113 Resp: 11173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.0 | 81.6 | 122.4 |
| 192 | 18.0 | 14.4 | 21.6 |

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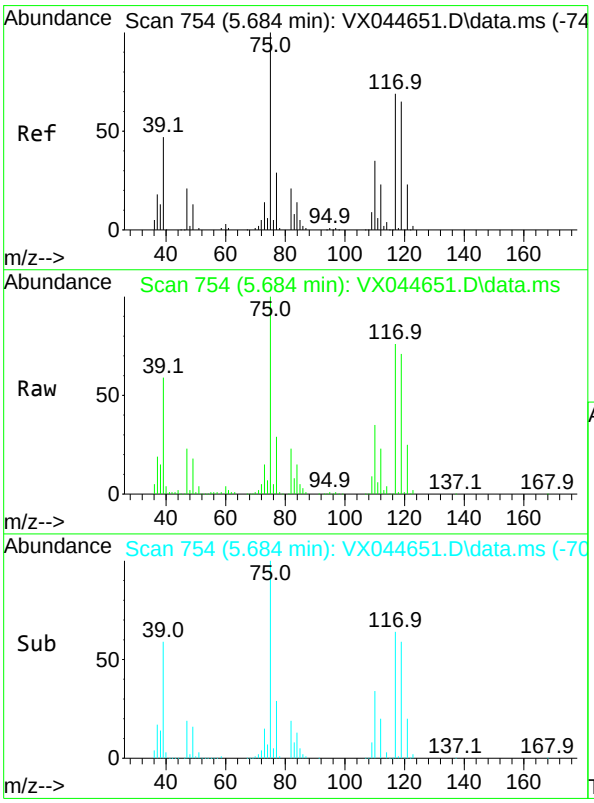
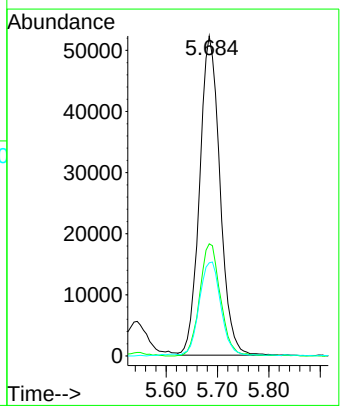
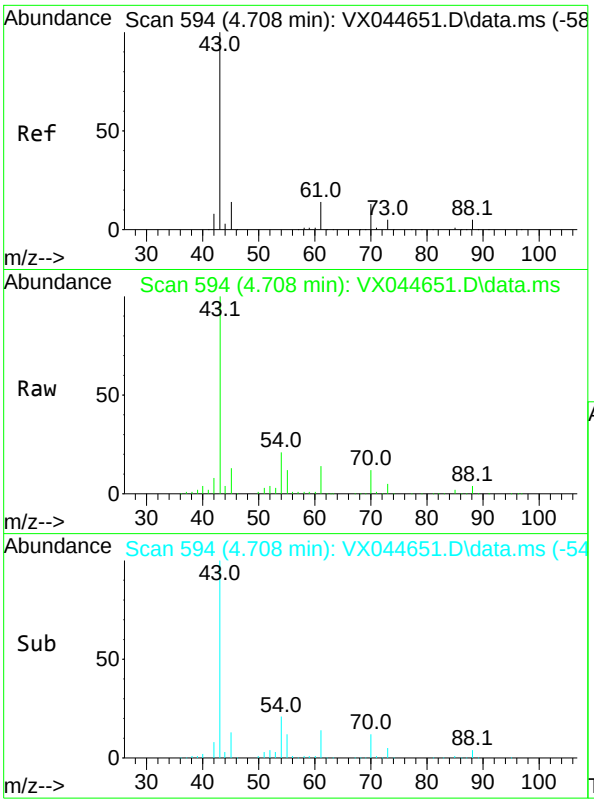



#36
1,1-Dichloropropene
Concen: 46.120 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 75 Resp: 143445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.9 | 17.9 | 53.8 |
| 77 | 30.6 | 24.5 | 36.7 |

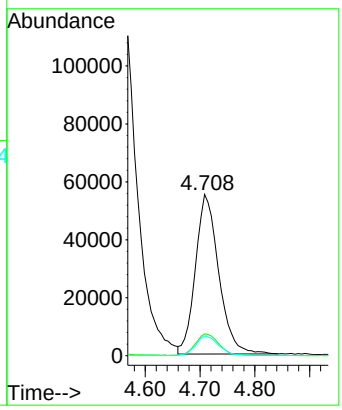





#37
Ethyl Acetate
Concen: 49.168 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 16285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.6 | 10.9 | 16.3 |
| 70 | 12.6 | 10.1 | 15.1 |

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**ClientSampleId :**
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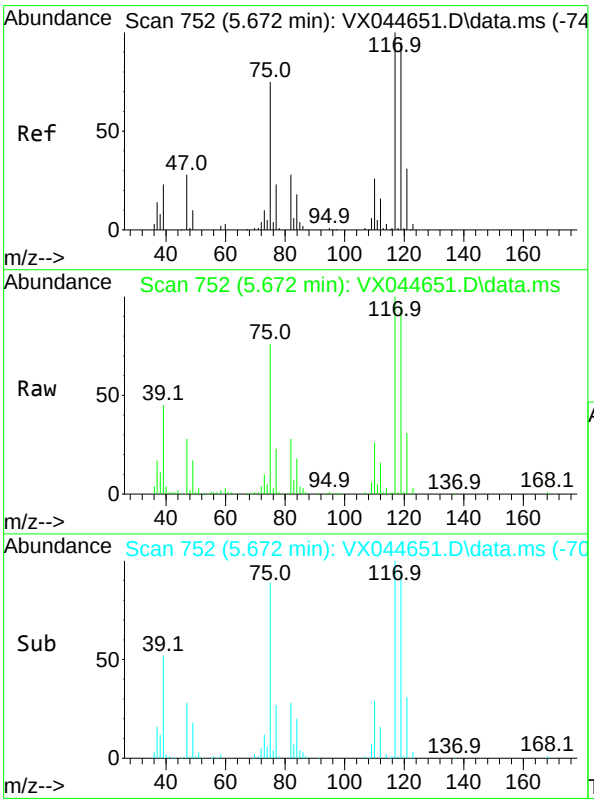
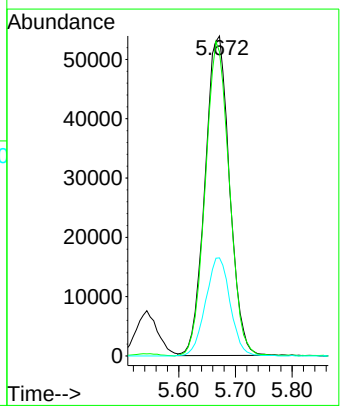
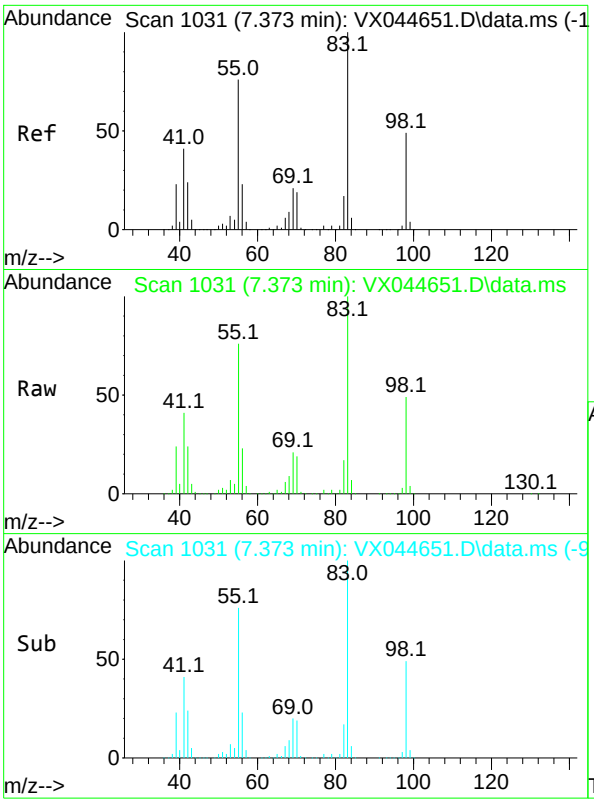



#38
Carbon Tetrachloride
Concen: 46.273 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:117 Resp: 161882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.0 | 76.0 | 114.0 |
| 121 | 30.7 | 24.6 | 36.8 |






#39
Methylcyclohexane
Concen: 46.929 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 83 Resp: 19375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.6 | 60.5 | 90.7 |
| 98 | 48.7 | 39.0 | 58.4 |

**Instrument :**
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VSTDICCC050

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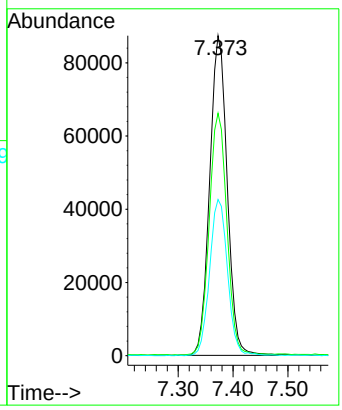
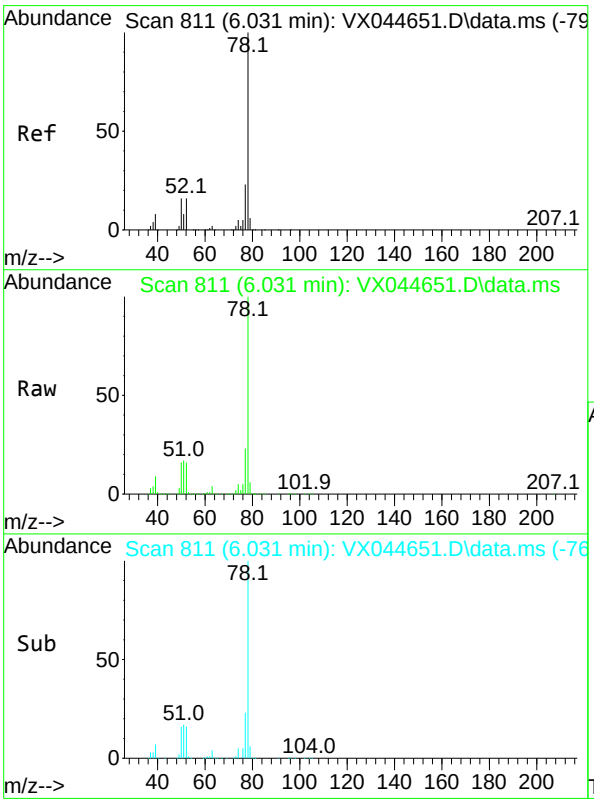
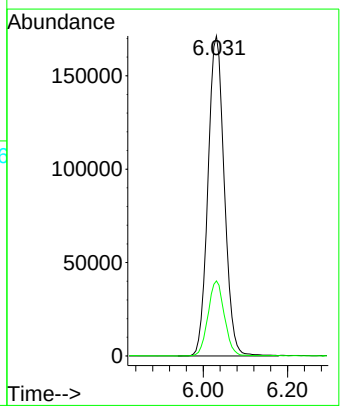


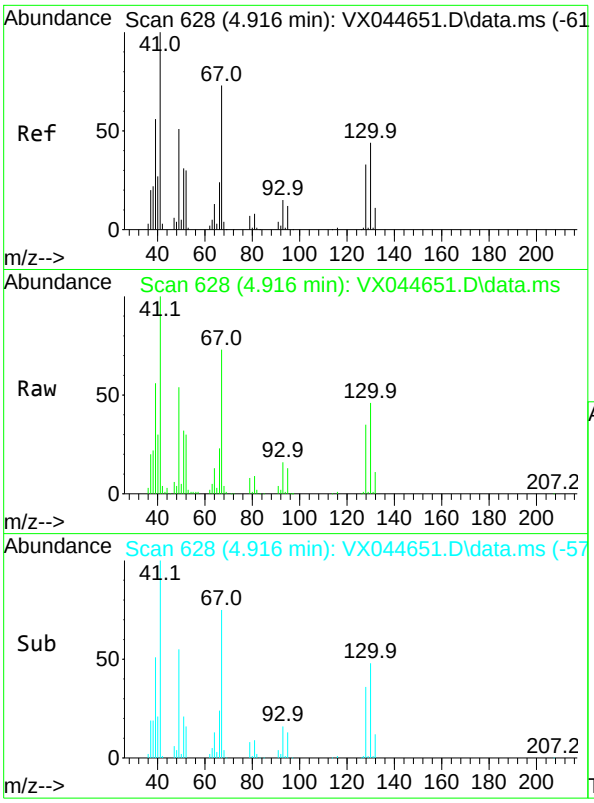




#40
Benzene
Concen: 47.670 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 78 Resp: 459433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 18.7 | 28.1 |

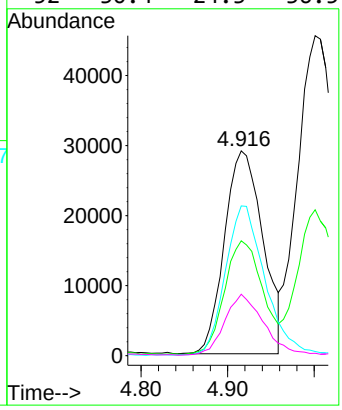





#41
Methacrylonitrile
Concen: 47.017 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 41 Resp: 8949

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.5 | 44.4 | 66.6 |
| 67 | 75.7 | 60.6 | 90.8 |
| 52 | 30.4 | 24.3 | 36.5 |

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MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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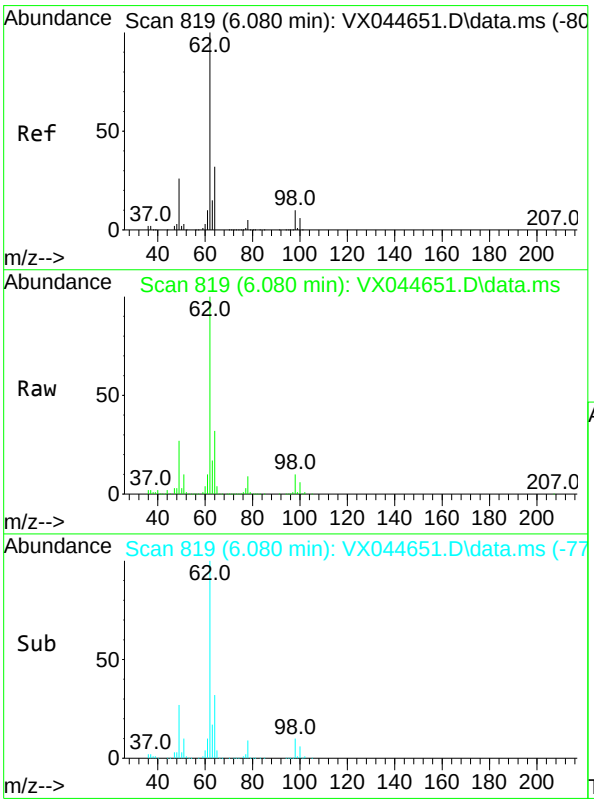
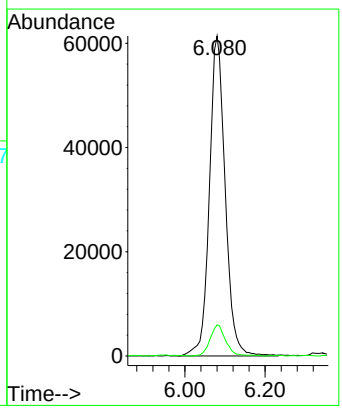
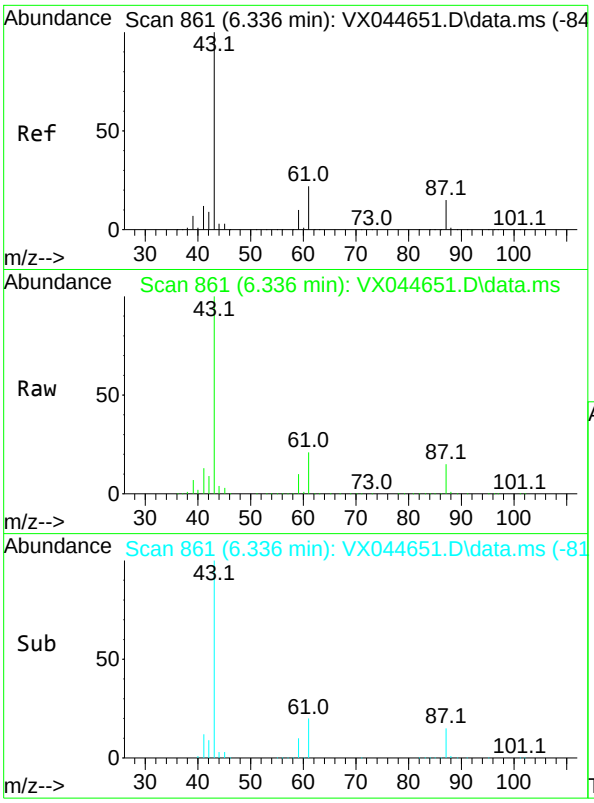



#42
1,2-Dichloroethane
Concen: 47.725 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 62 Resp: 167878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.7 | 0.0 | 19.4 |






#43
Isopropyl Acetate
Concen: 47.053 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 28669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.7 | 16.6 | 24.8 |
| 87 | 13.8 | 11.0 | 16.6 |

**Instrument :**
MSVOA_X
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VSTDICCC050

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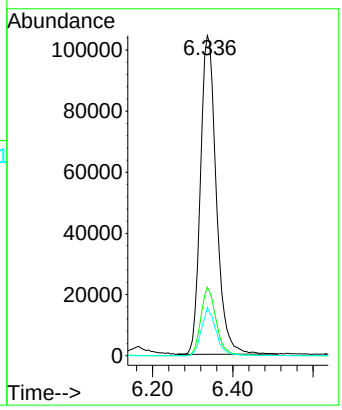
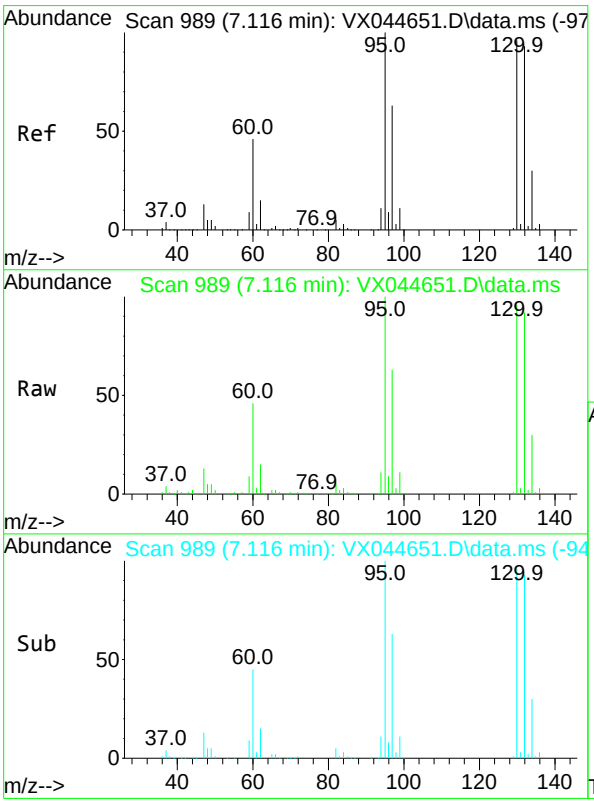
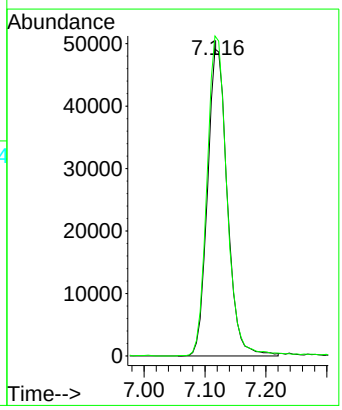


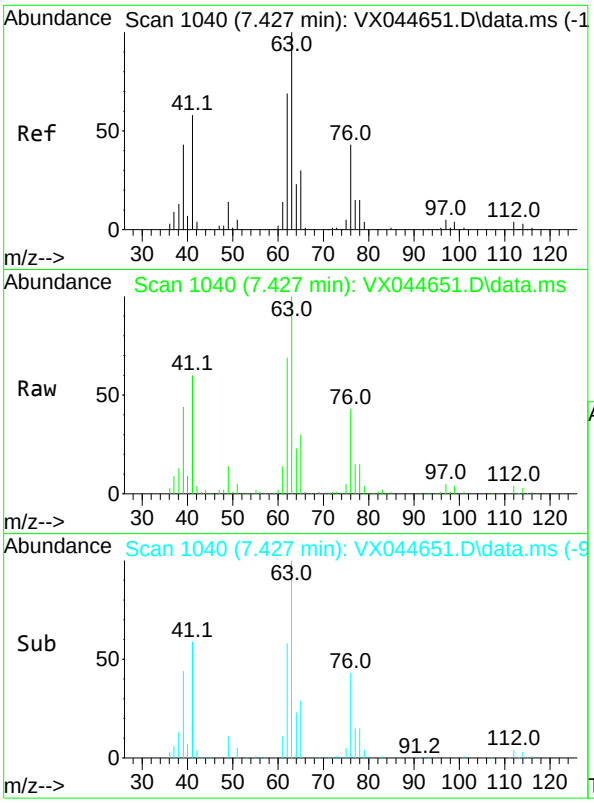




#44
Trichloroethene
Concen: 47.956 ug/l
RT: 7.116 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:130 Resp: 111112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 104.1 | 0.0 | 208.2 |

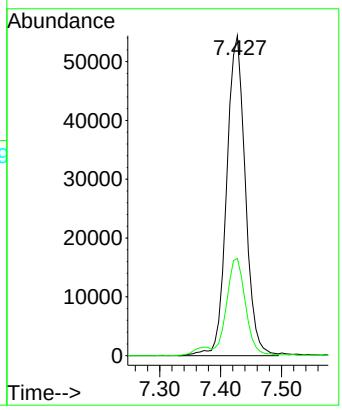





#45
1,2-Dichloropropane
Concen: 47.660 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 63 Resp: 11562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.2 | 24.2 | 36.2 |

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VSTDICCC050

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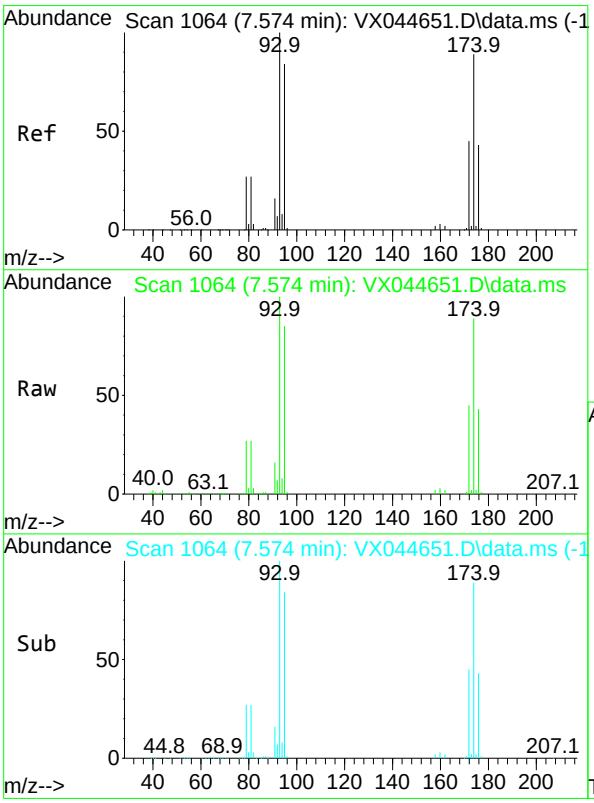
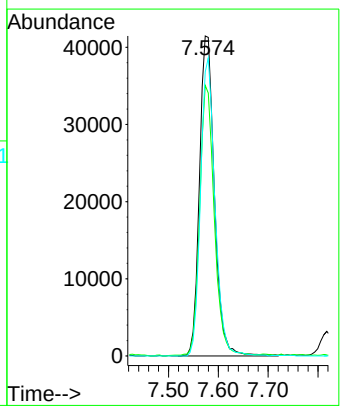
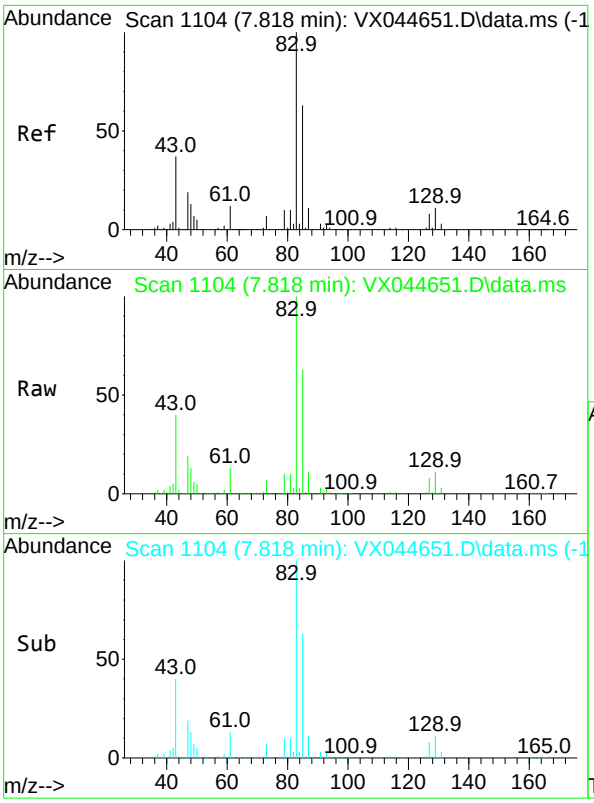



#46
Dibromomethane
Concen: 46.813 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 93 Resp: 86455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.0 | 66.4 | 99.6 |
| 174 | 90.0 | 72.0 | 108.0 |

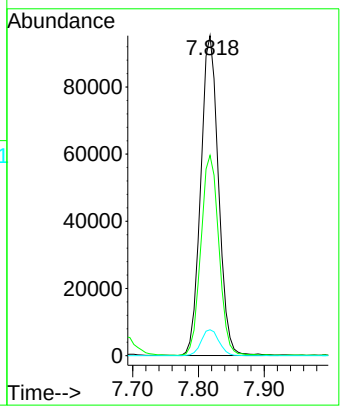





#47
Bromodichloromethane
Concen: 47.138 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 83 Resp: 17853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.6 | 50.1 | 75.1 |
| 127 | 8.1 | 6.5 | 9.7 |

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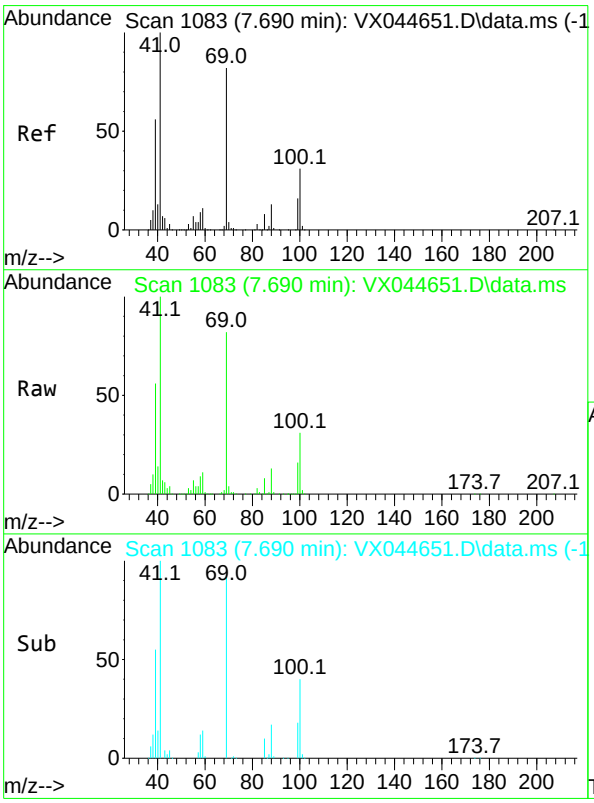
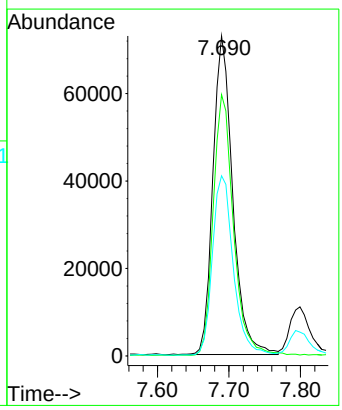
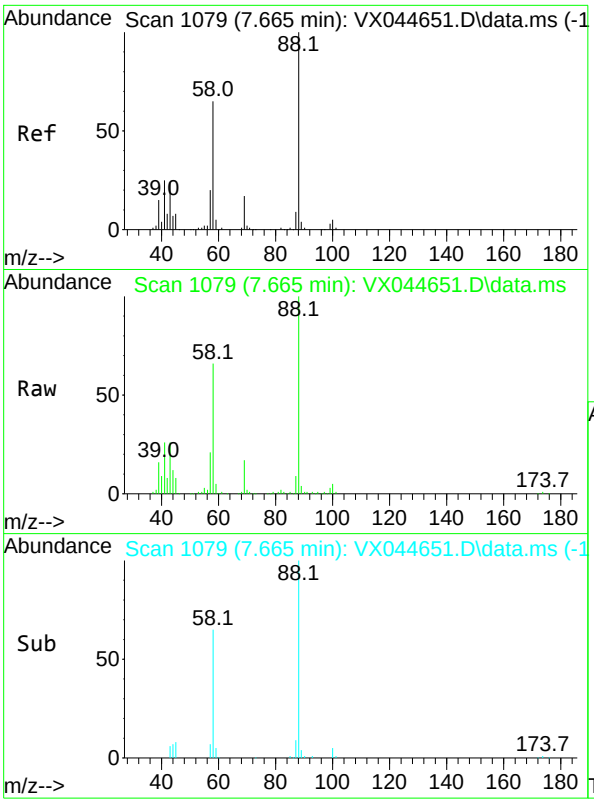



#48
Methyl methacrylate
Concen: 49.659 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 41 Resp: 140450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.5 | 66.8 | 100.2 |
| 39 | 59.2 | 47.4 | 71.0 |

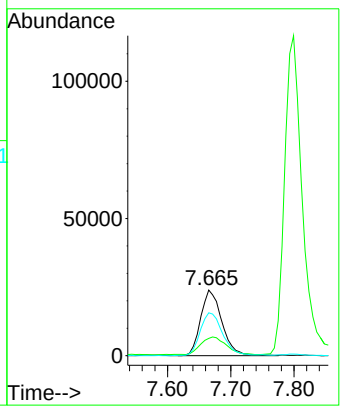





#49
1,4-Dioxane
Concen: 943.583 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 88 Resp: 5567

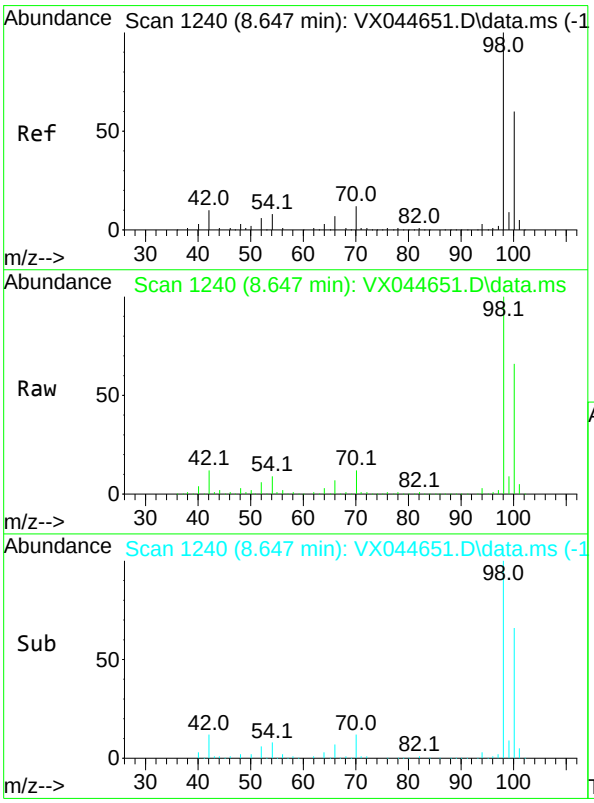
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.7 | 27.0 | 40.4 |
| 58 | 69.8 | 55.8 | 83.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

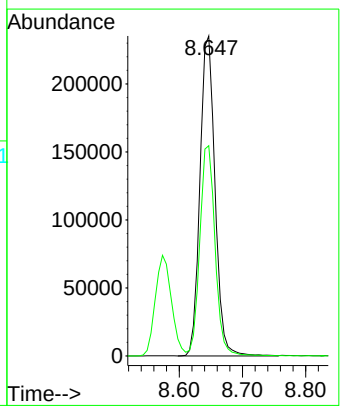
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

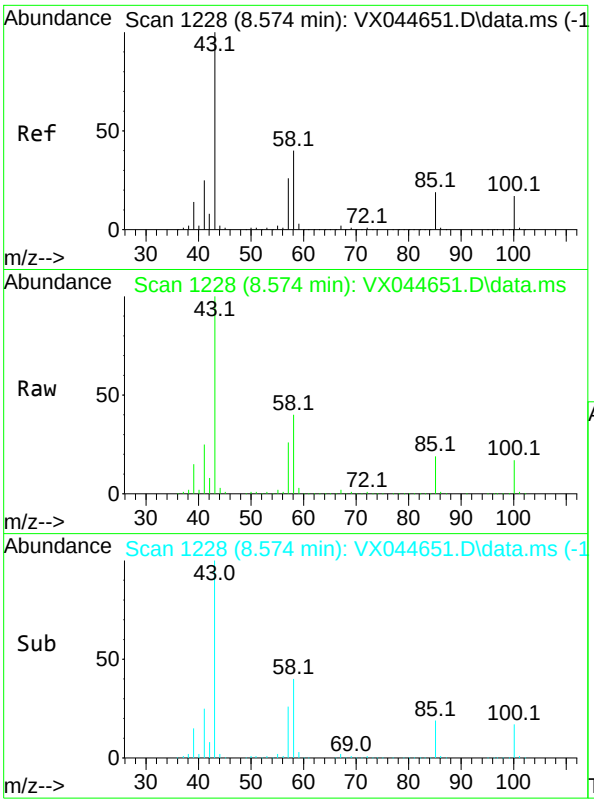



#50
Toluene-d8
Concen: 50.145 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 98 Resp: 390660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.5 | 53.2 | 79.8 |

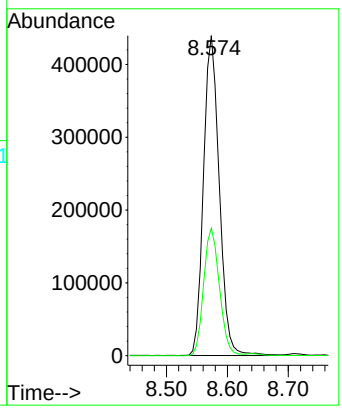





#51
4-Methyl-2-Pentanone
Concen: 234.662 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 79015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.9 | 31.9 | 47.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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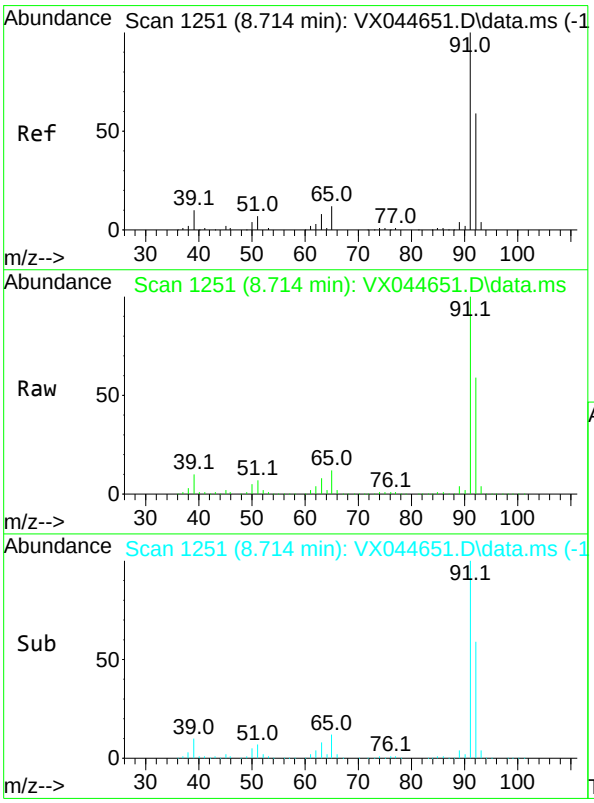
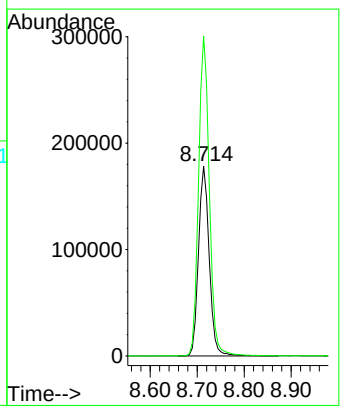
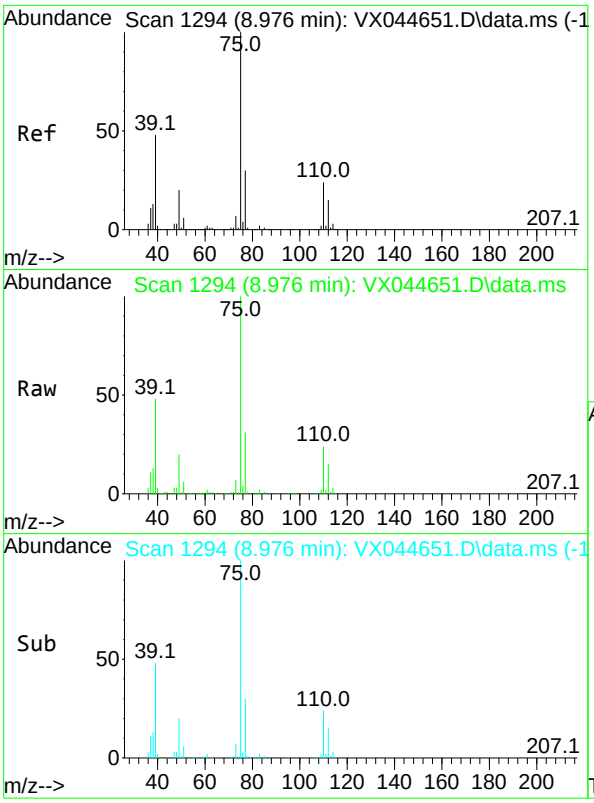



#52
Toluene
Concen: 48.001 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 92 Resp: 283156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.6 | 135.7 | 203.5 |

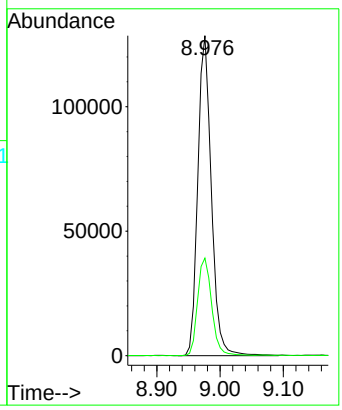





#53
t-1,3-Dichloropropene
Concen: 49.036 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 75 Resp: 19187

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.5 | 24.4 | 36.6 |




**Instrument :**
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VSTDICCC050

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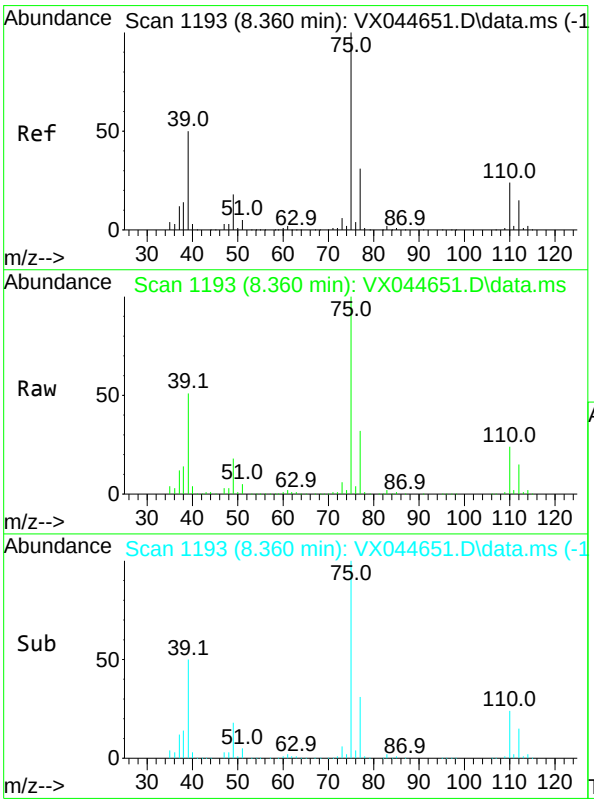
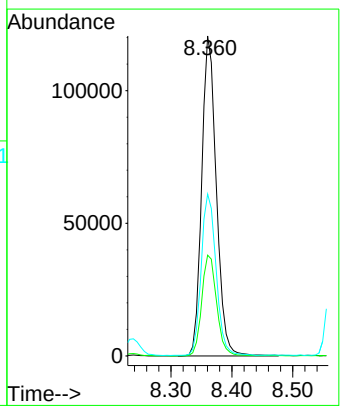
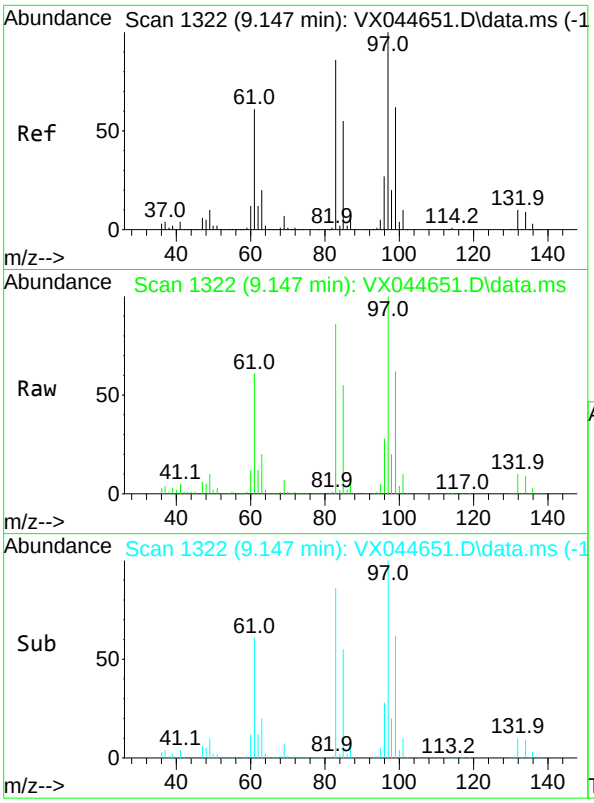



#54
cis-1,3-Dichloropropene
Concen: 47.563 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 75 Resp: 201804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.1 | 37.7 |
| 39 | 50.4 | 40.3 | 60.5 |

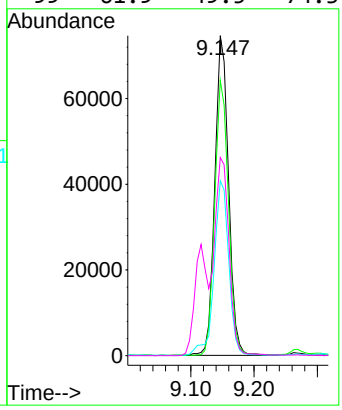





#55
1,1,2-Trichloroethane
Concen: 47.043 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 97 Resp: 11227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.0 | 68.8 | 103.2 |
| 85 | 54.6 | 43.7 | 65.5 |
| 99 | 61.9 | 49.5 | 74.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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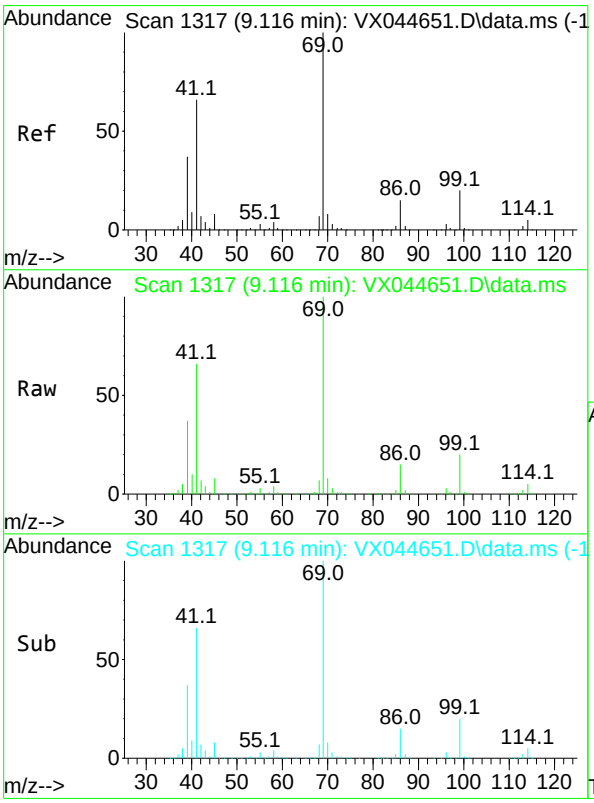
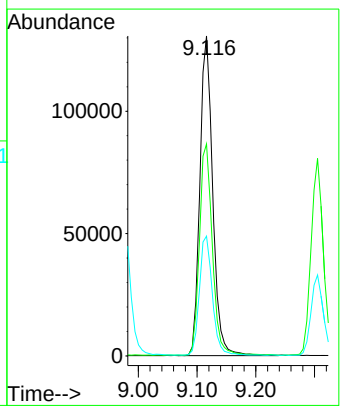
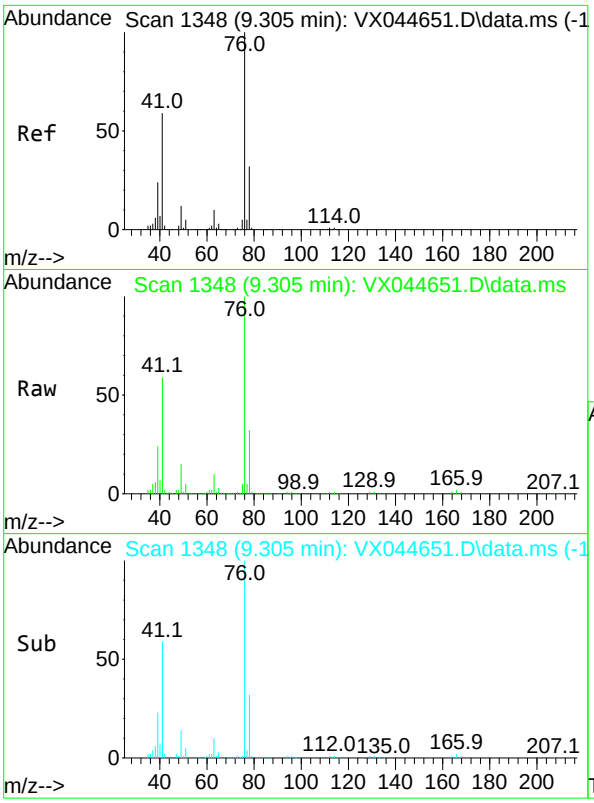



#56
Ethyl methacrylate
Concen: 48.353 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 69 Resp: 198422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.5 | 53.2 | 79.8 |
| 39 | 37.7 | 30.2 | 45.2 |

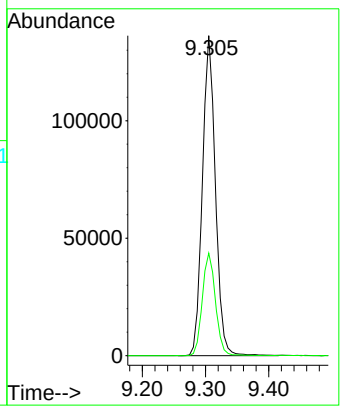





#57
1,3-Dichloropropane
Concen: 48.025 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 76 Resp: 19518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 26.0 | 39.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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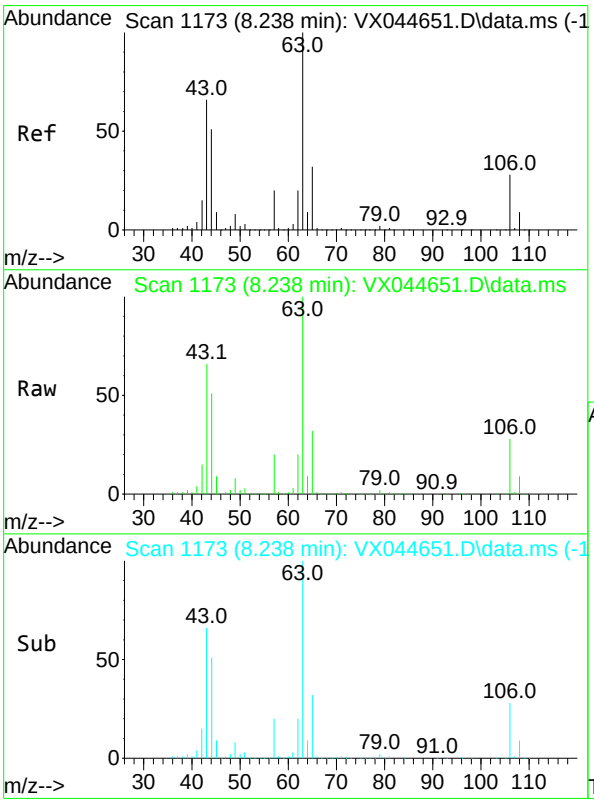
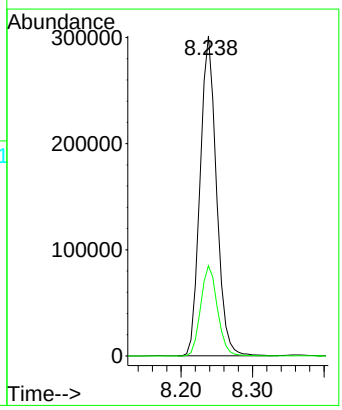
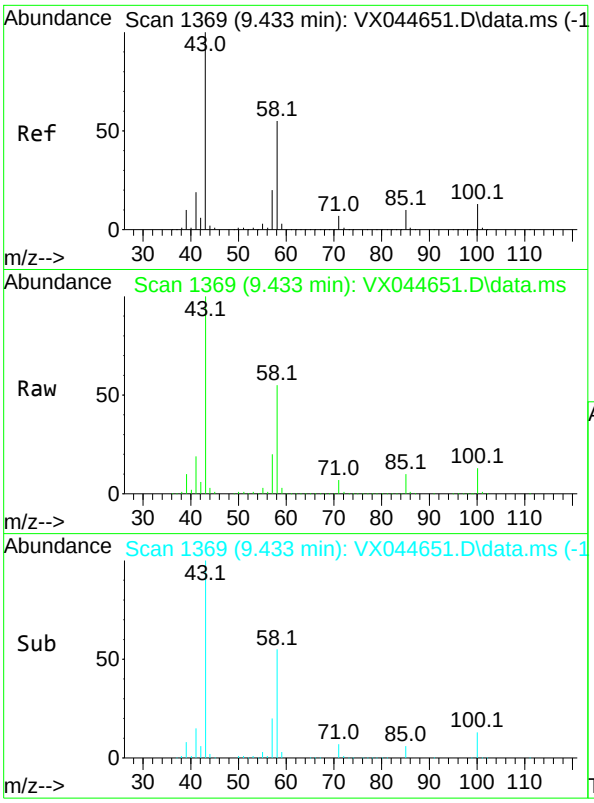



#58
2-Chloroethyl Vinyl ether
Concen: 238.018 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 63 Resp: 479521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.8 | 23.0 | 34.6 |

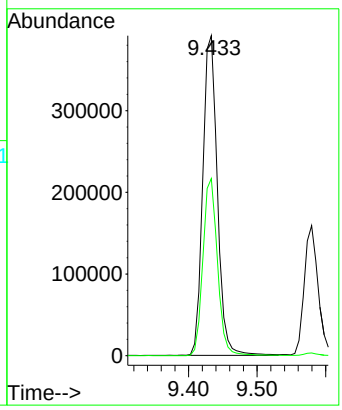





#59
2-Hexanone
Concen: 234.142 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 58002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.5 | 27.8 | 83.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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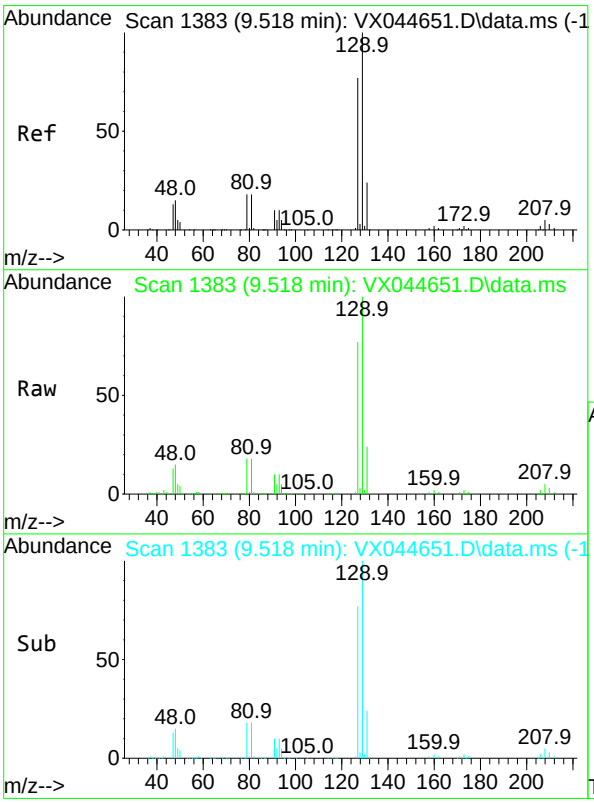
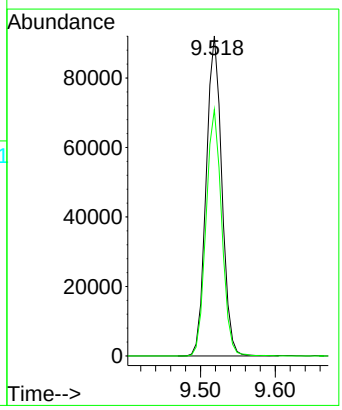
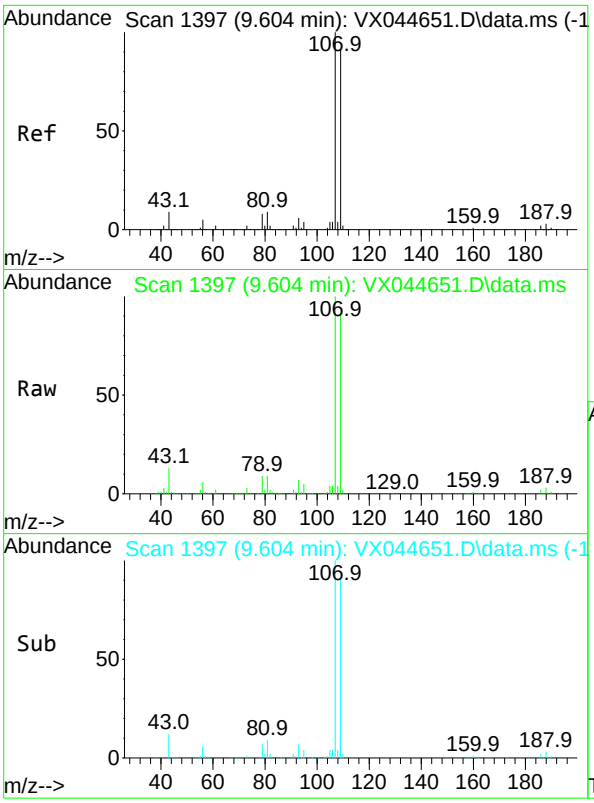



#60
Dibromochloromethane
Concen: 47.816 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:129 Resp: 133941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 38.5 | 115.5 |

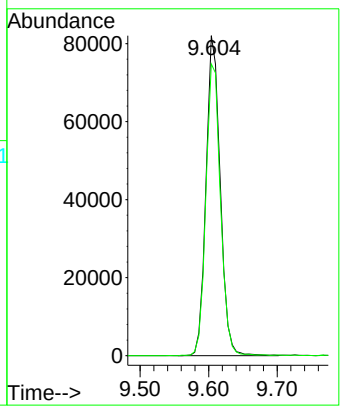





#61
1,2-Dibromoethane
Concen: 47.331 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:107 Resp: 11838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.1 | 75.3 | 112.9 |




**Instrument :**
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**ClientSampleId :**
VSTDICCC050

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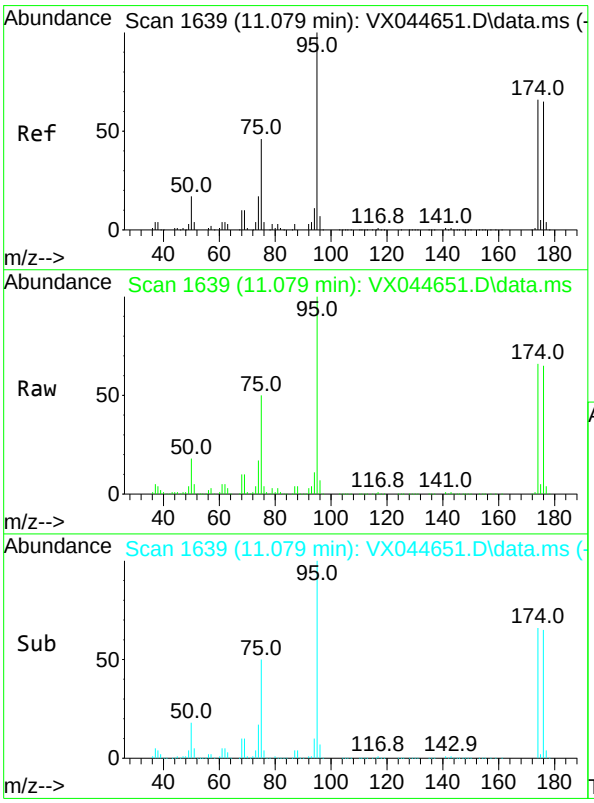
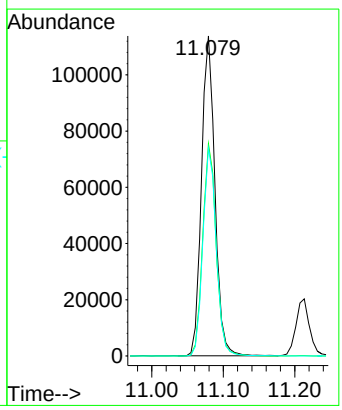
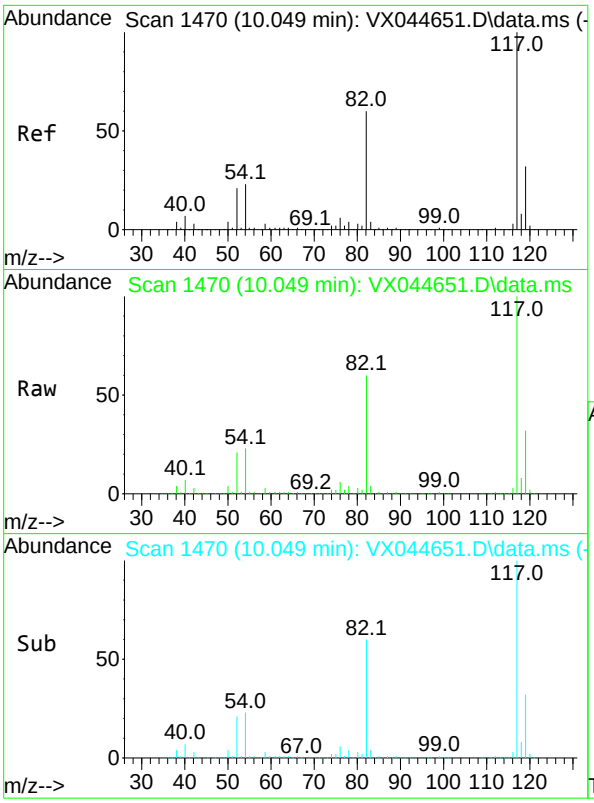



#62
4-Bromofluorobenzene
Concen: 51.037 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 95 Resp: 148223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.5 | 0.0 | 133.0 |
| 176 | 64.7 | 0.0 | 129.4 |

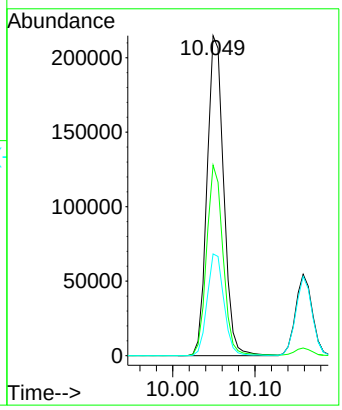





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:117 Resp: 30114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.5 | 47.6 | 71.4 |
| 119 | 31.8 | 25.4 | 38.2 |

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MSVOA_X
**ClientSampleId :**
VSTDICCC050

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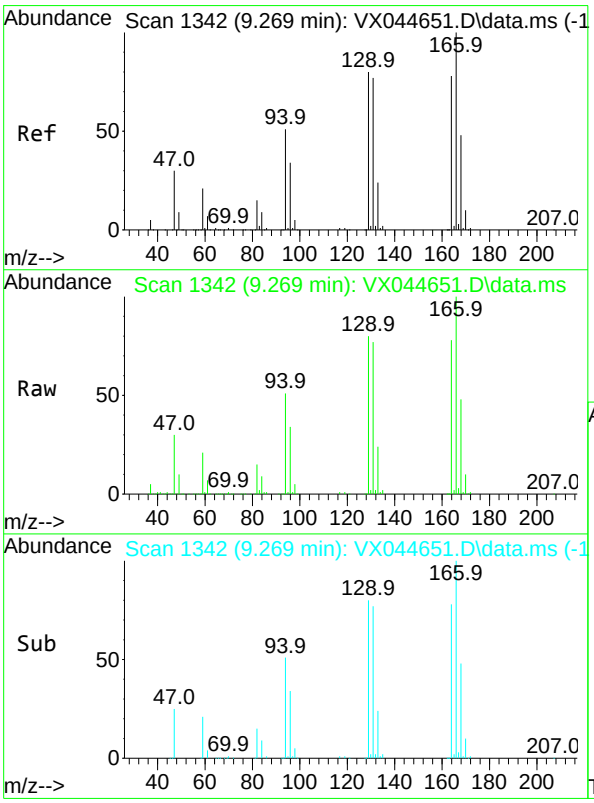
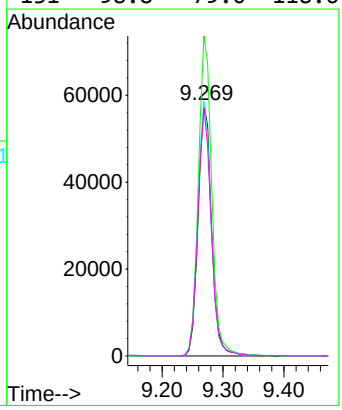
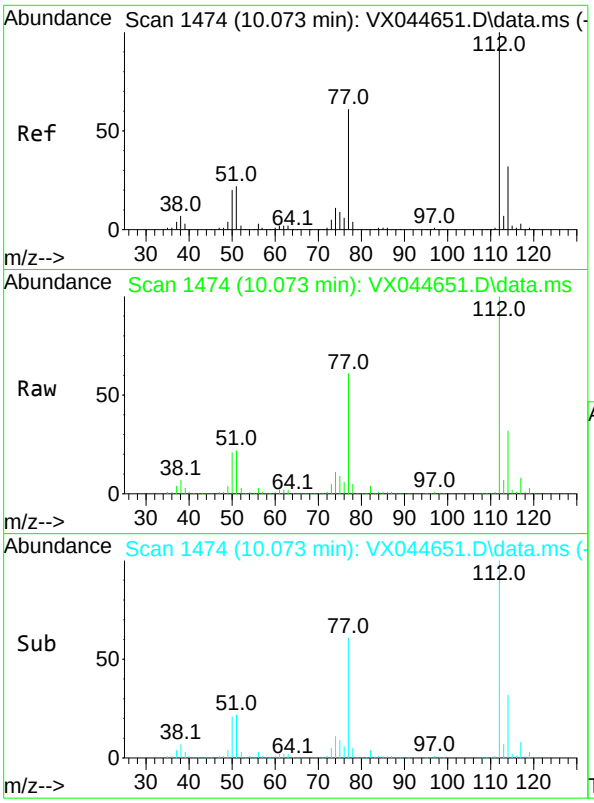



#64
Tetrachloroethene
Concen: 47.145 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:164 Resp: 89149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.5 | 102.0 | 153.0 |
| 129 | 101.4 | 81.1 | 121.7 |
| 131 | 98.8 | 79.0 | 118.6 |

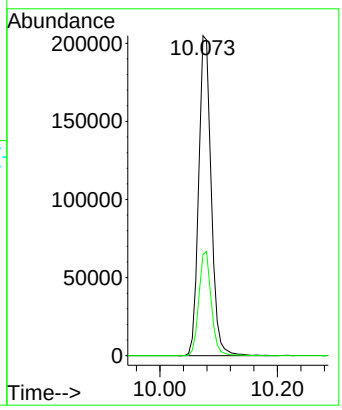





#65
Chlorobenzene
Concen: 47.474 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:112 Resp: 30365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.6 | 25.3 | 37.9 |

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VSTDICCC050

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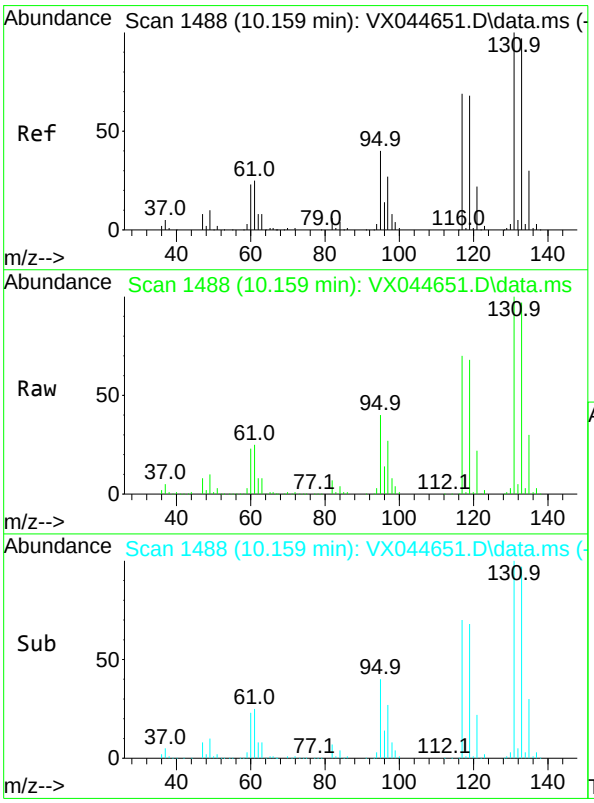
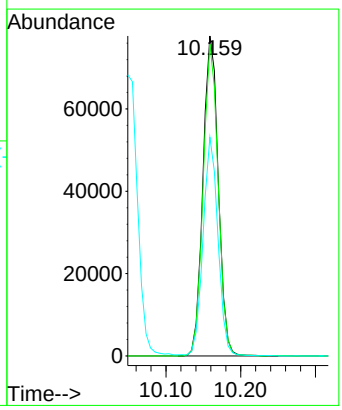
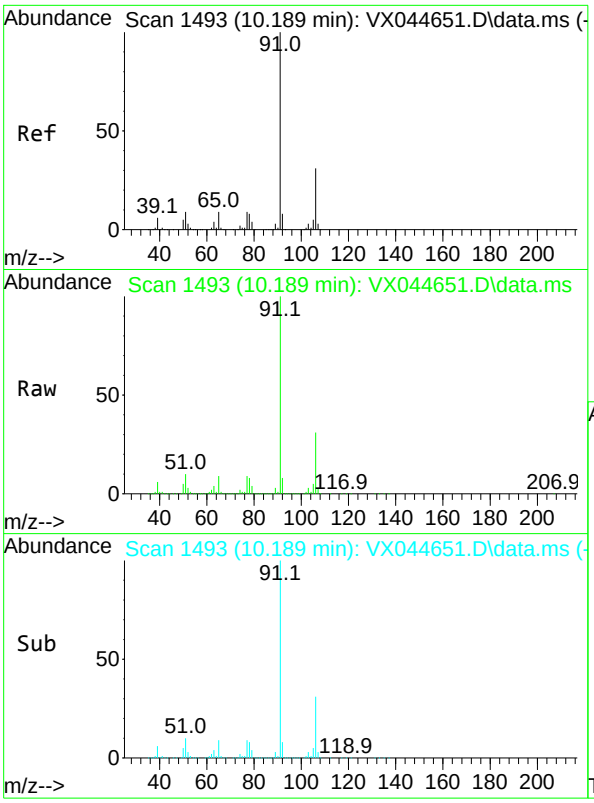



#66
1,1,1,2-Tetrachloroethane
Concen: 47.490 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:131 Resp: 110395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.5 | 47.8 | 143.3 |
| 119 | 66.8 | 33.4 | 100.2 |

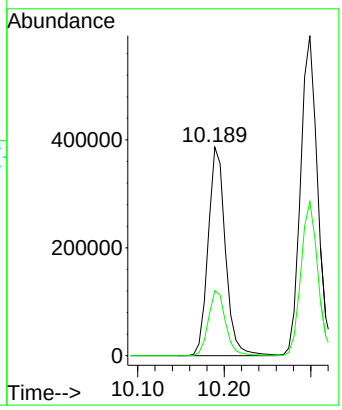





#67
Ethyl Benzene
Concen: 48.000 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 91 Resp: 53571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.3 | 25.0 | 37.6 |




**Instrument :**
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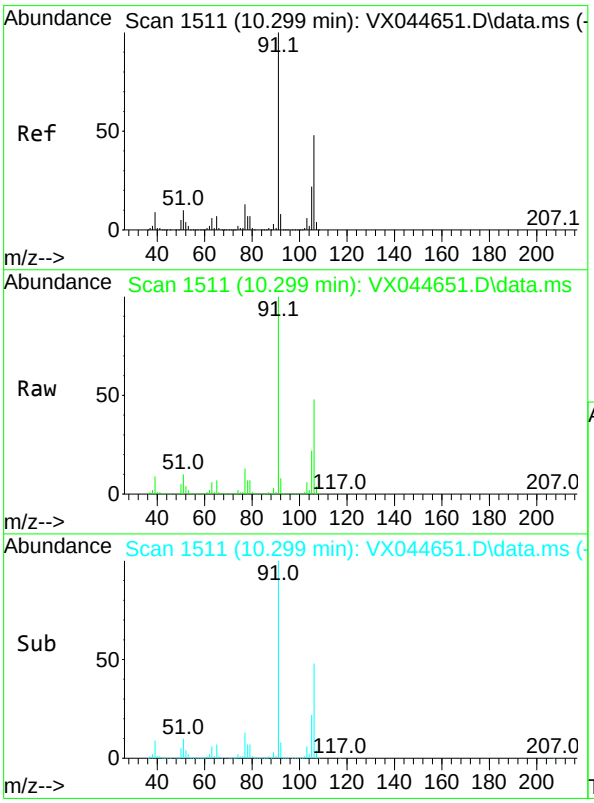
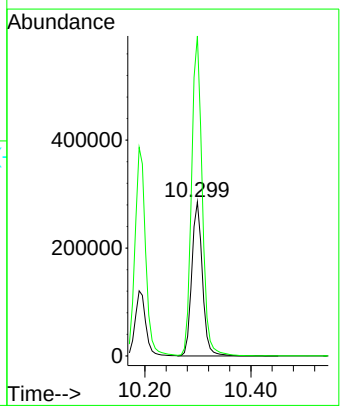
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

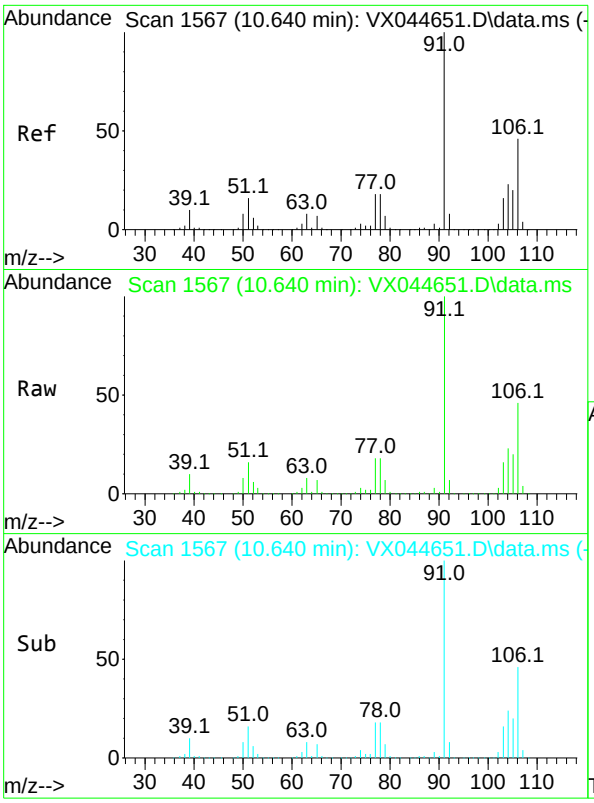



#68
m/p-Xylenes
Concen: 95.393 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:106 Resp: 395084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.0 | 166.4 | 249.6 |

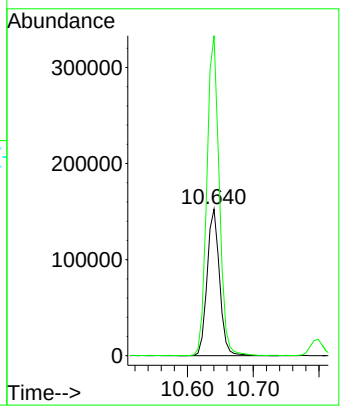





#69
o-Xylene
Concen: 47.845 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:106 Resp: 20039

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.5 | 108.7 | 326.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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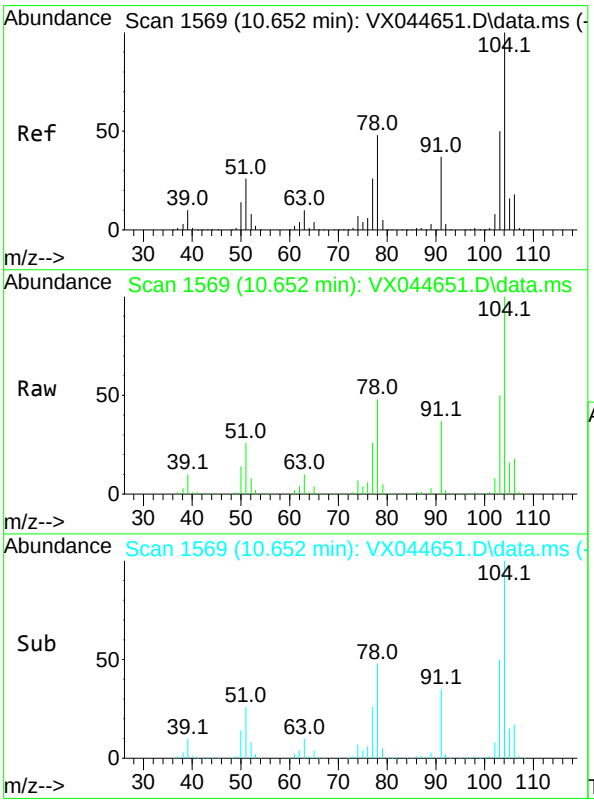
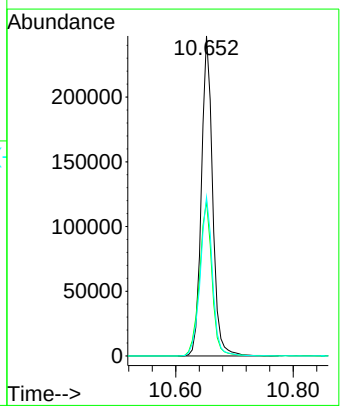
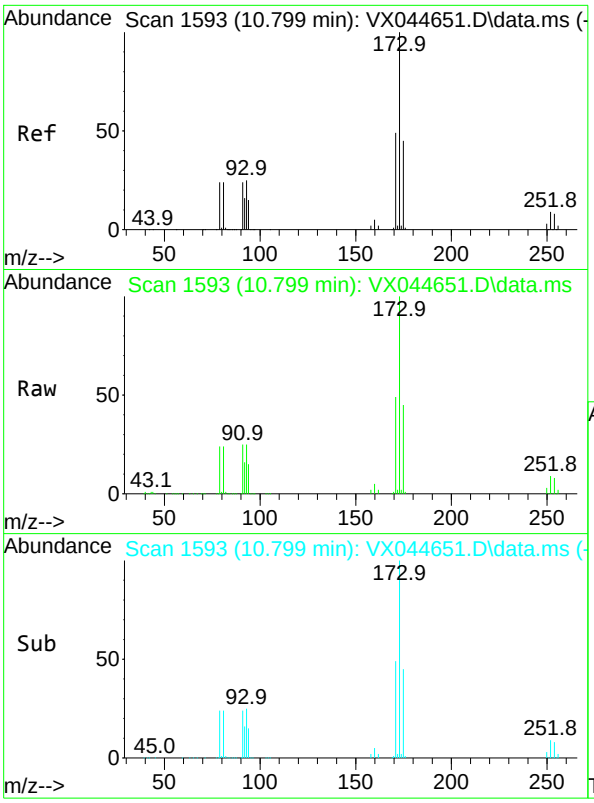



#70
Styrene
Concen: 48.481 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:104 Resp: 327844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.8 | 43.0 | 64.6 |
| 103 | 54.3 | 43.4 | 65.2 |

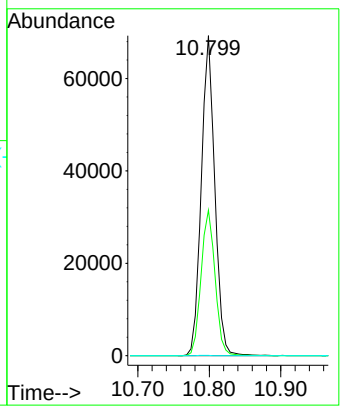





#71
Bromoform
Concen: 48.011 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:173 Resp: 9083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.2 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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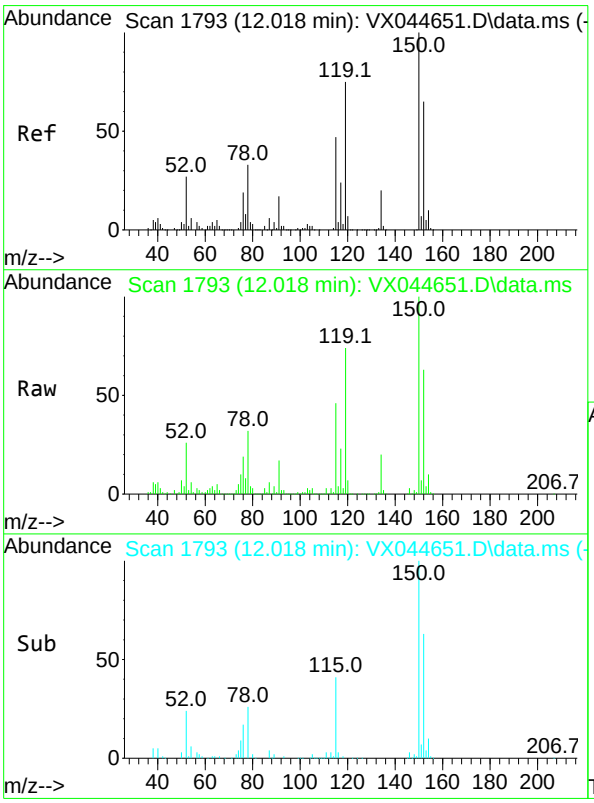
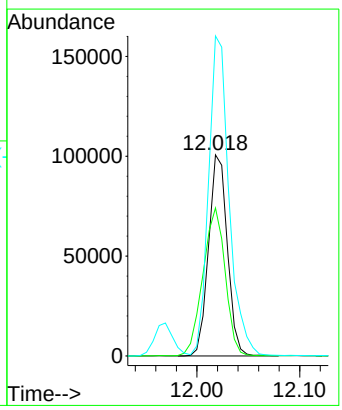
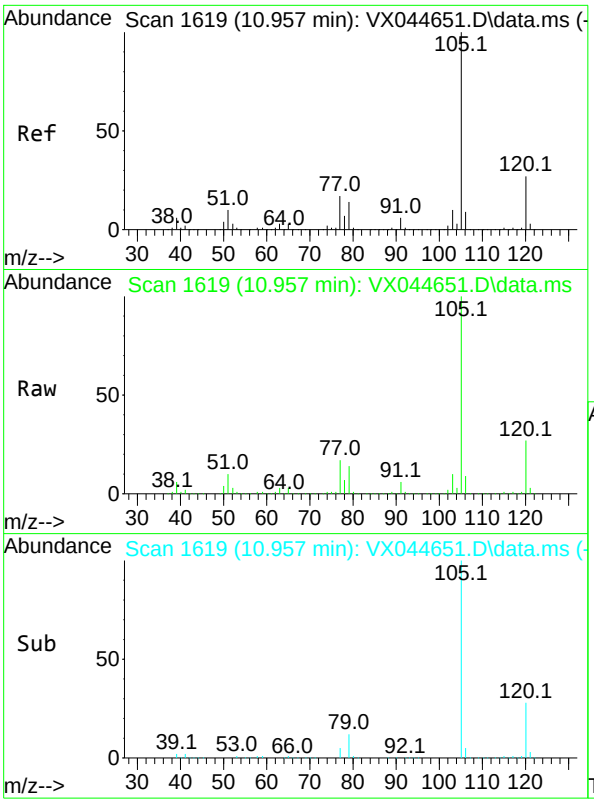



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:152 Resp: 127832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 87.6 | 43.8 | 131.4 |
| 150 | 173.9 | 0.0 | 347.8 |

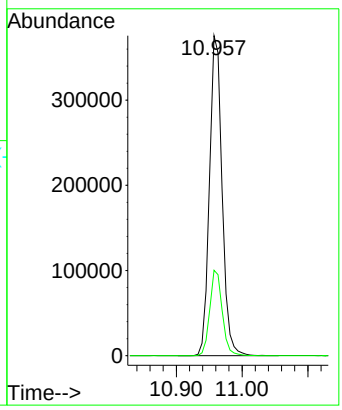





#73
Isopropylbenzene
Concen: 47.943 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:105 Resp: 50066

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.2 | 39.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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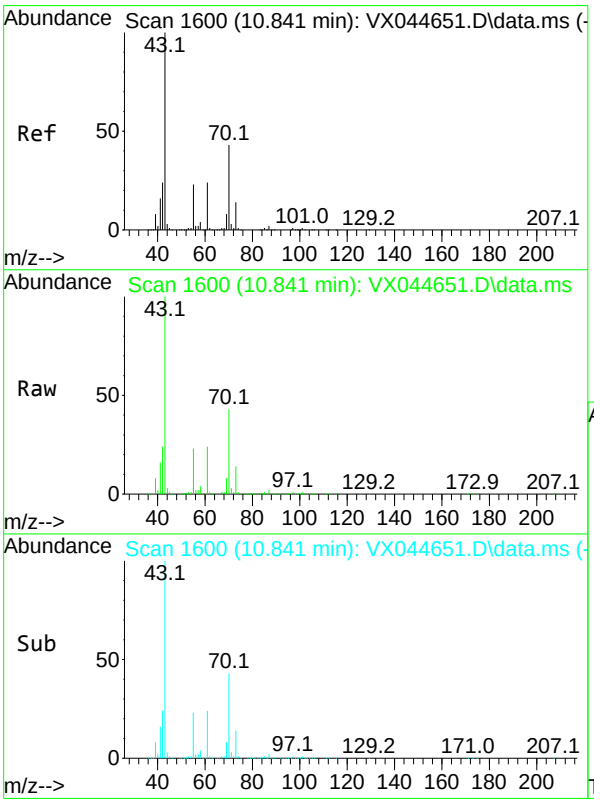
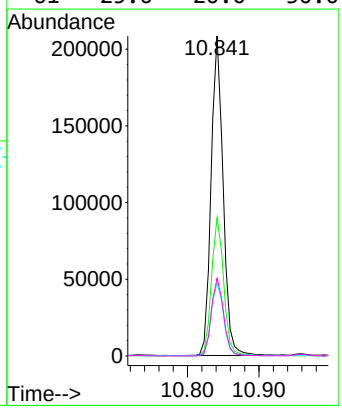
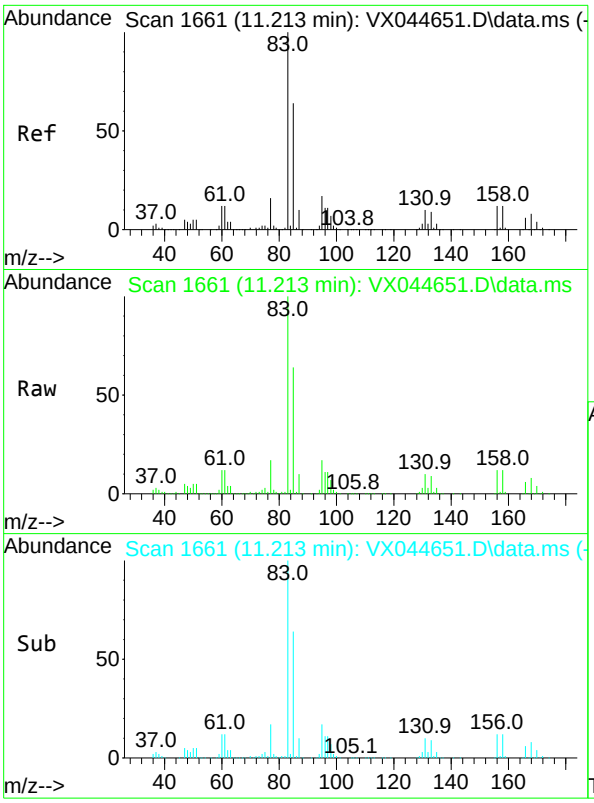



#74
N-amyl acetate
Concen: 47.188 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 242893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.0 | 35.2 | 52.8 |
| 55 | 23.7 | 19.0 | 28.4 |
| 61 | 25.0 | 20.0 | 30.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 46.155 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 83 Resp: 16646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.0 | 14.9 |
| 85 | 64.1 | 32.0 | 96.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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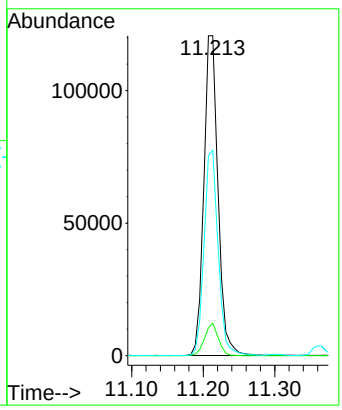
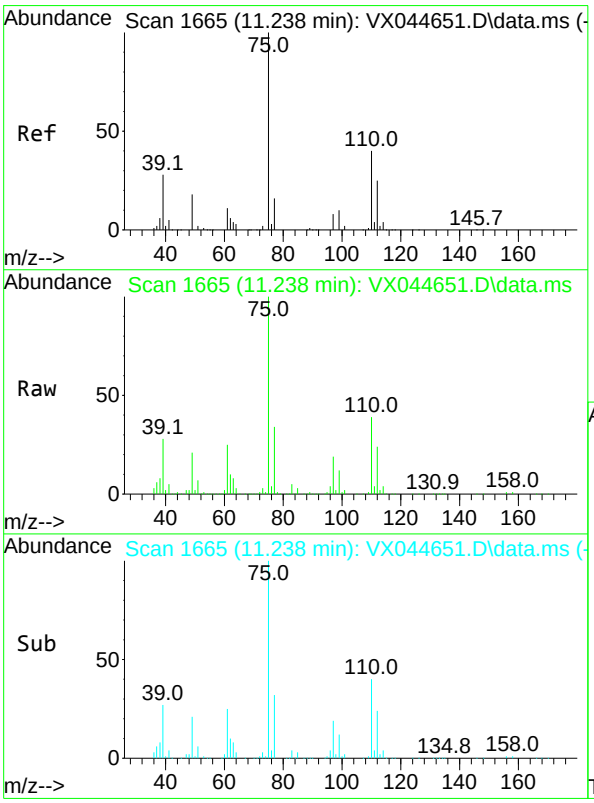
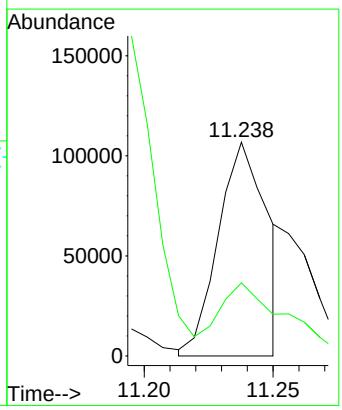


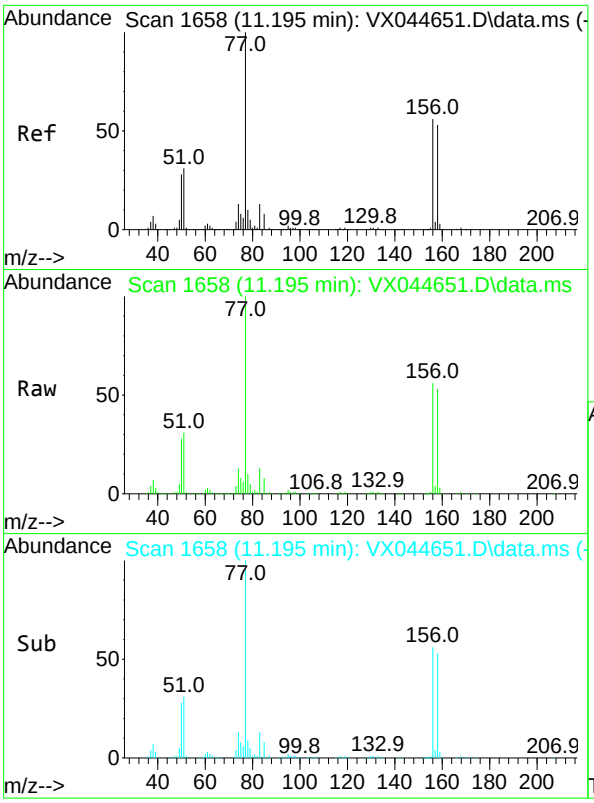




#76
1,2,3-Trichloropropane
Concen: 46.648 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 75 Resp: 140834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 46.8 | 23.4 | 70.2 |






#77
Bromobenzene
Concen: 47.268 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:156 Resp: 11537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 180.7 | 90.3 | 271.0 |
| 158 | 96.9 | 48.4 | 145.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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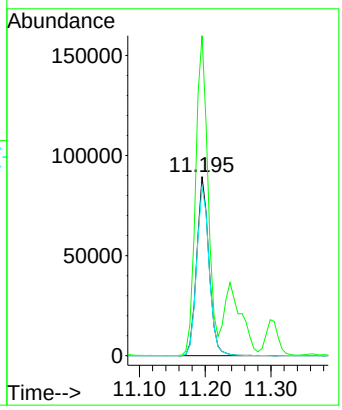
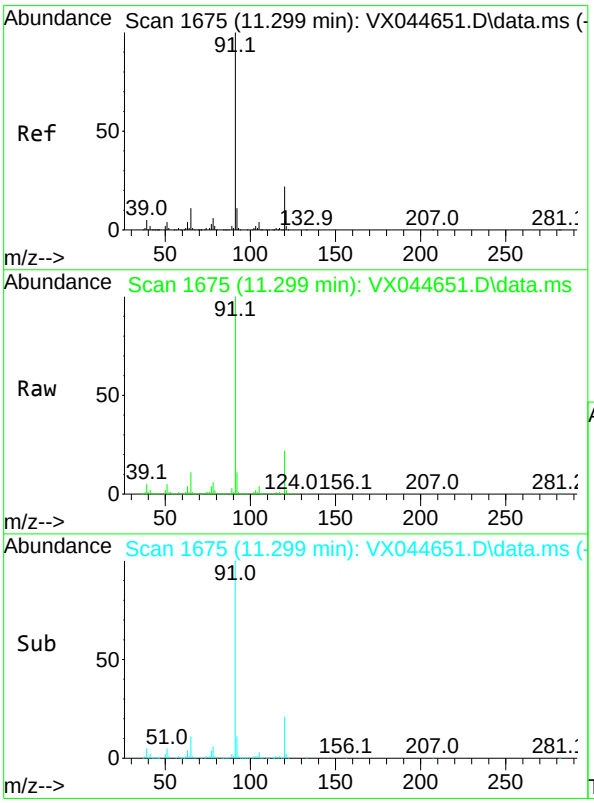
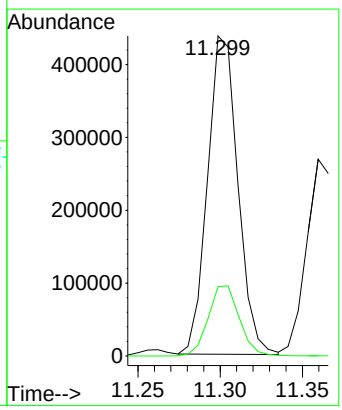


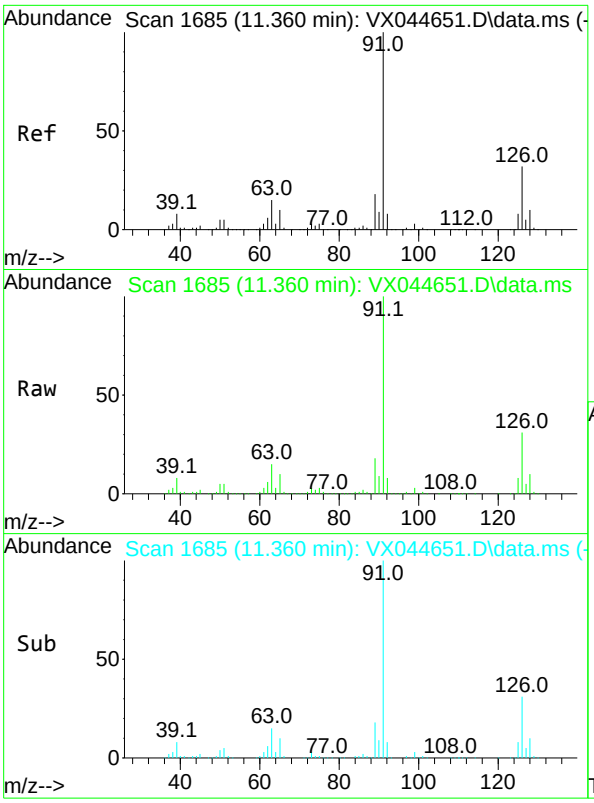




#78
n-propylbenzene
Concen: 48.746 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 91 Resp: 561396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.4 | 34.1 |

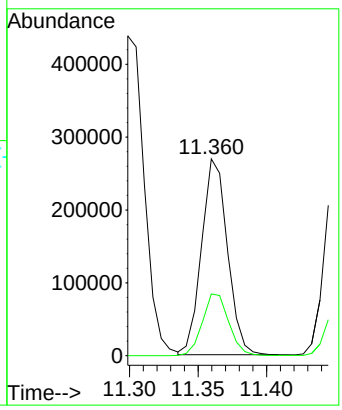





#79
2-Chlorotoluene
Concen: 47.474 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 91 Resp: 35317

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.3 | 16.2 | 48.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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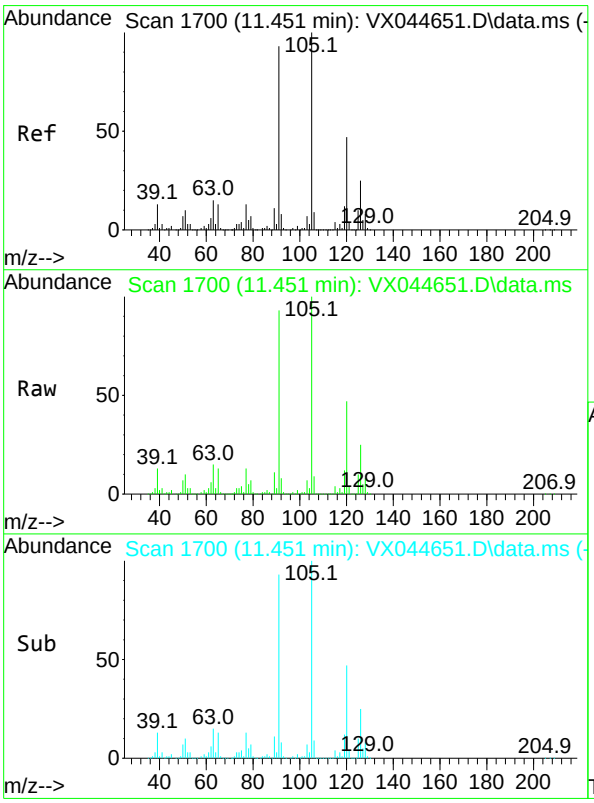
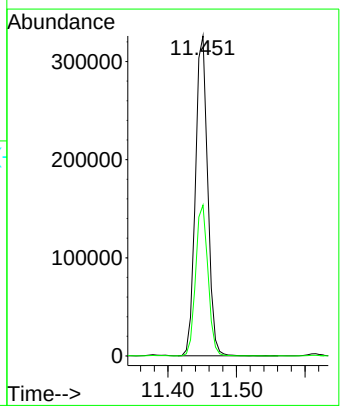
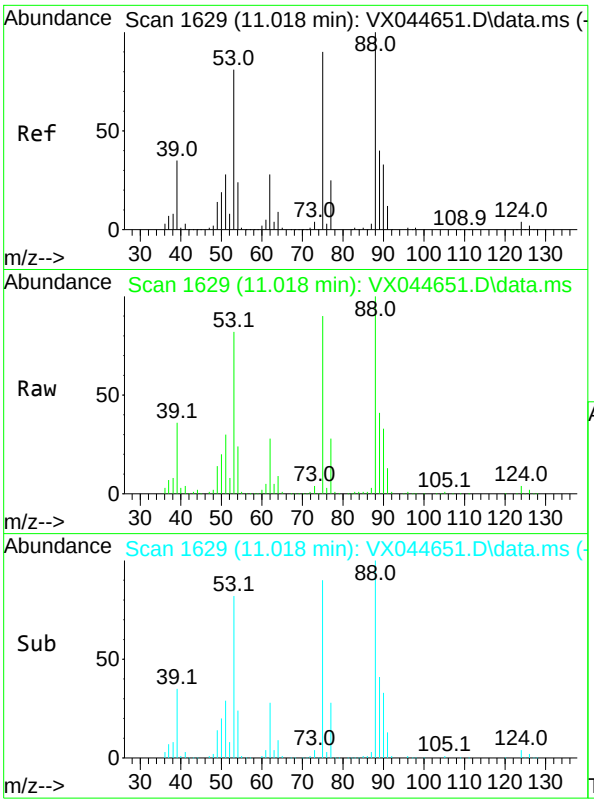



#80
1,3,5-Trimethylbenzene
Concen: 47.918 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:105 Resp: 407362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.4 | 23.7 | 71.1 |






#81
trans-1,4-Dichloro-2-butene
Concen: 48.266 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 75 Resp: 6547

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 92.9 | 74.3 | 111.5 |
| 89 | 46.7 | 37.4 | 56.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

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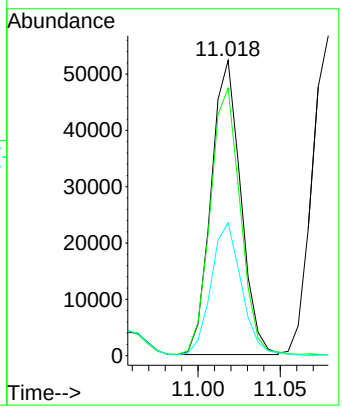
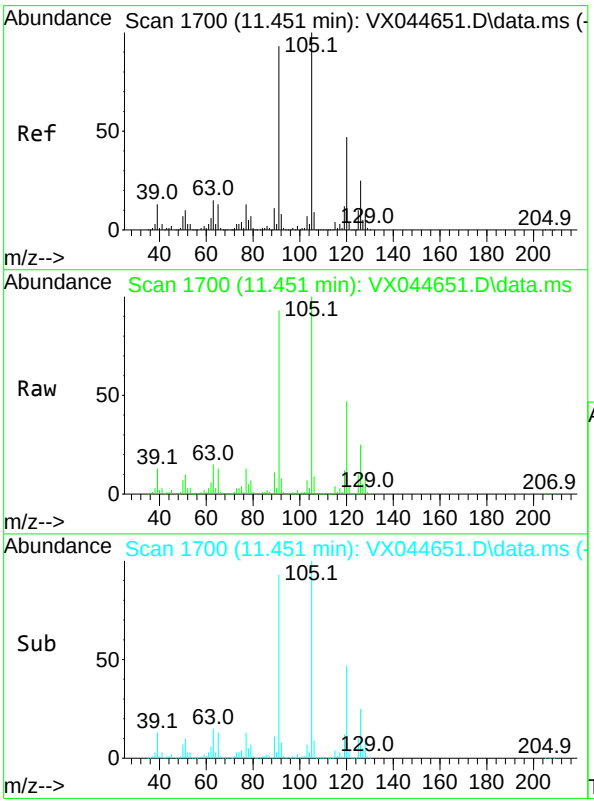
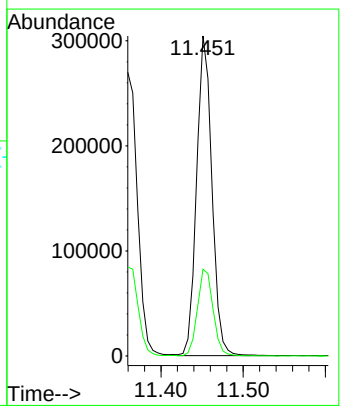


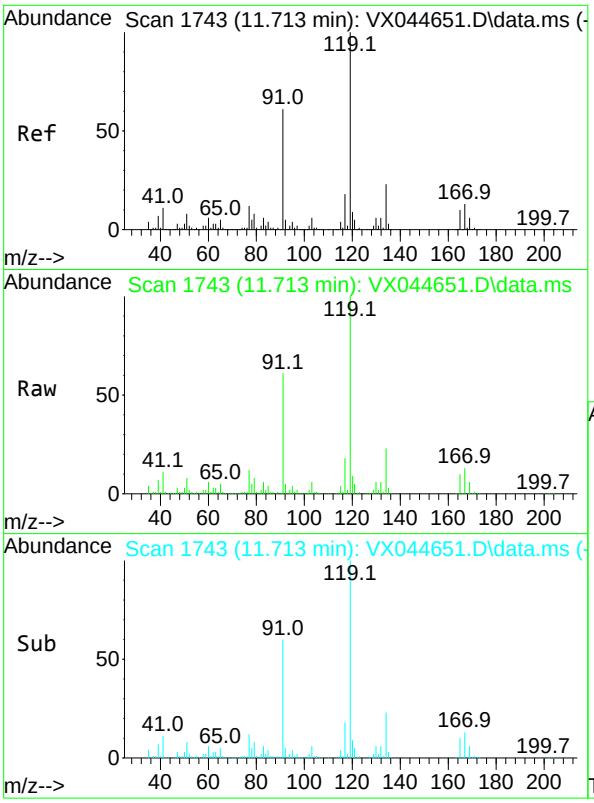




#82
4-Chlorotoluene
Concen: 48.238 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 91 Resp: 393120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.8 | 13.9 | 41.7 |

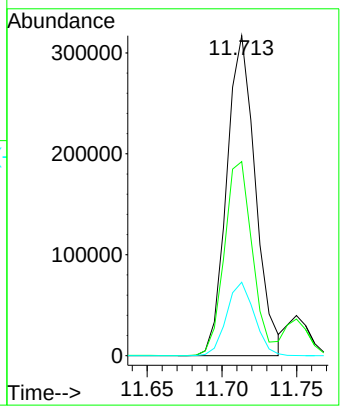





#83
tert-Butylbenzene
Concen: 47.513 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:119 Resp: 42234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 60.0 | 30.0 | 90.0 |
| 134 | 22.3 | 11.2 | 33.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
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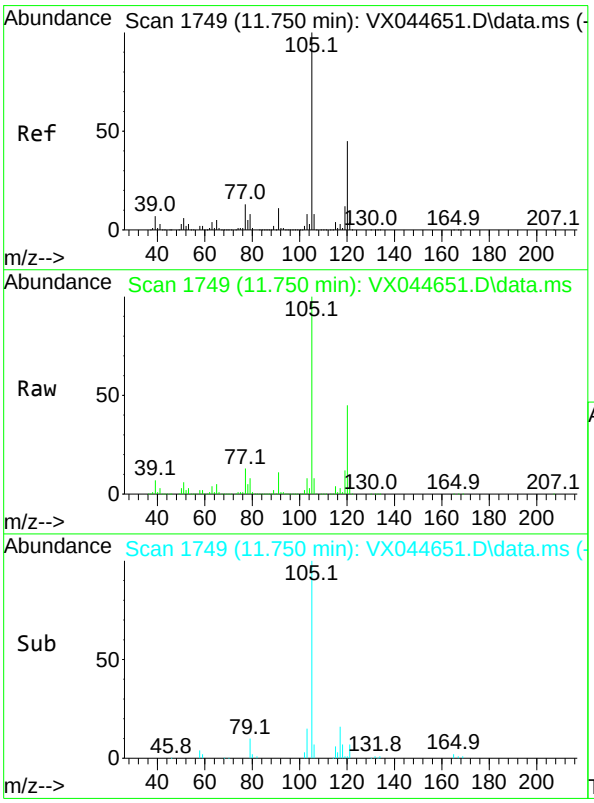
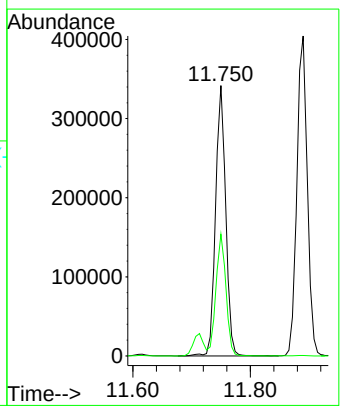
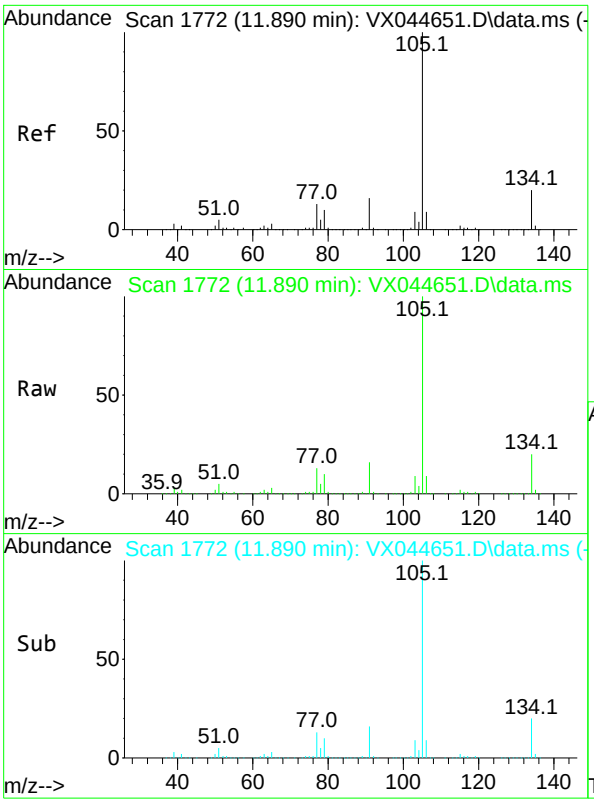



#84
1,2,4-Trimethylbenzene
Concen: 47.515 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:105 Resp: 410477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 22.2 | 66.6 |

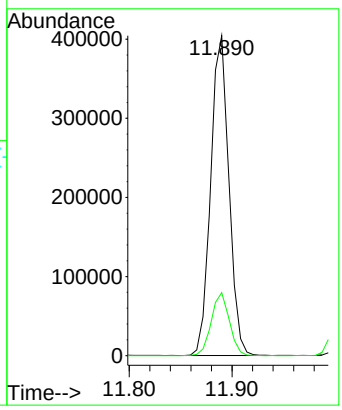





#85
sec-Butylbenzene
Concen: 48.113 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:105 Resp: 49796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.7 | 9.8 | 29.5 |




**Instrument :**
MSVOA_X
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VSTDICCC050

**Manual Integrations**
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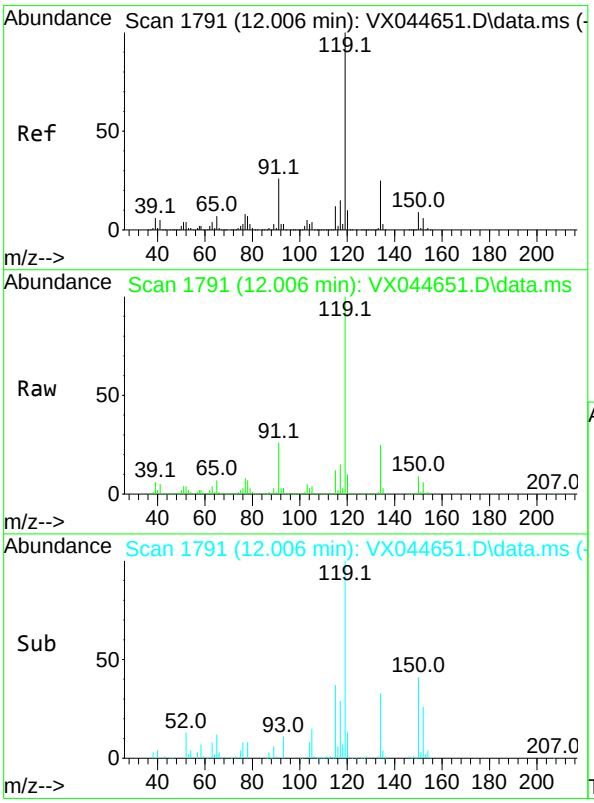
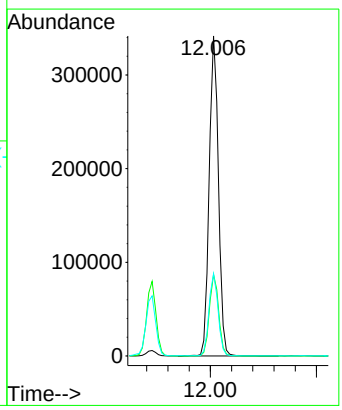
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

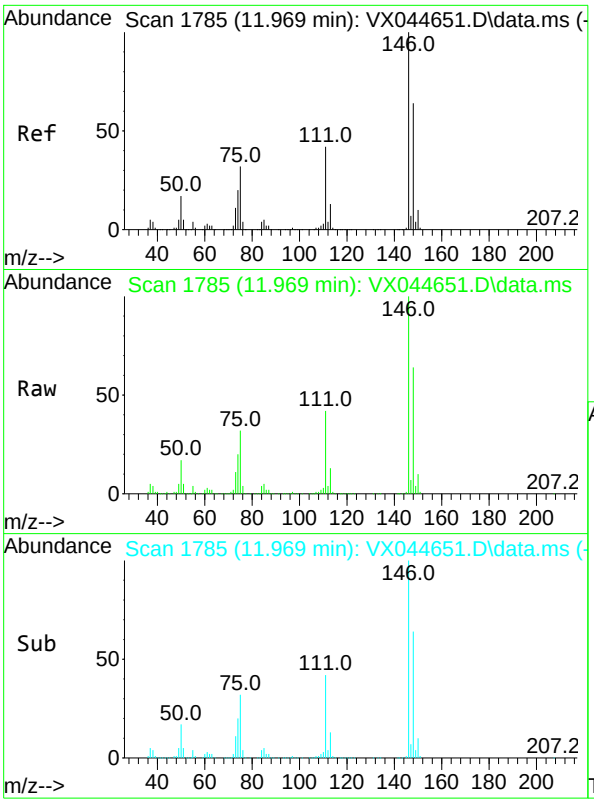



#86
p-Isopropyltoluene
Concen: 48.421 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:119 Resp: 411853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.6 | 12.8 | 38.4 |
| 91 | 25.4 | 12.7 | 38.1 |

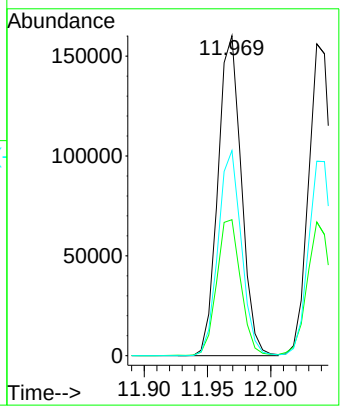





#87
1,3-Dichlorobenzene
Concen: 48.720 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:146 Resp: 20623

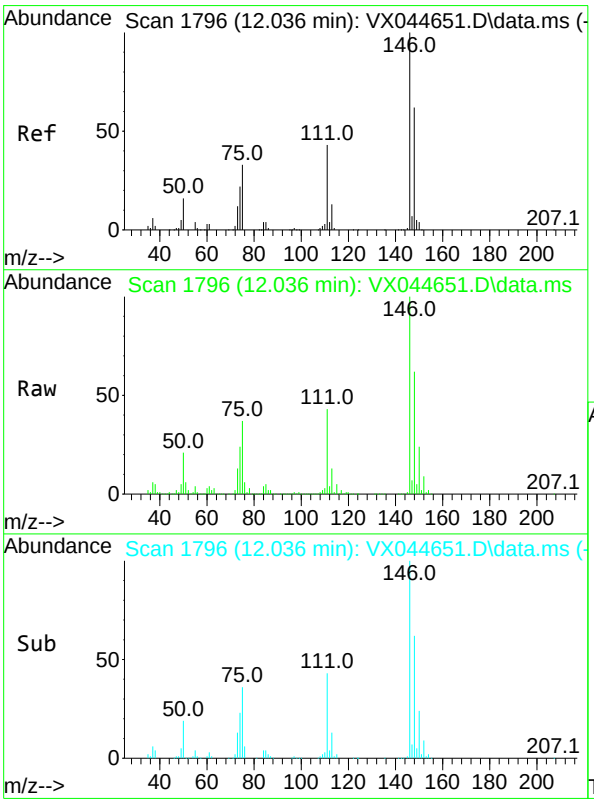
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.8 | 21.9 | 65.7 |
| 148 | 63.6 | 31.8 | 95.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

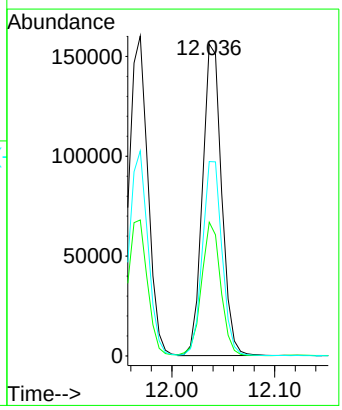
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

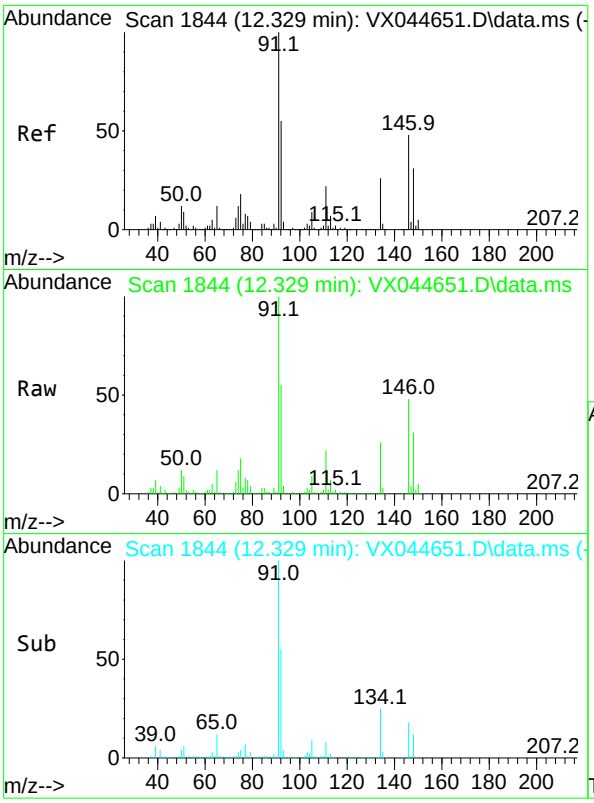



#88
1,4-Dichlorobenzene
Concen: 47.960 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:146 Resp: 201574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 21.5 | 64.5 |
| 148 | 64.3 | 32.1 | 96.5 |

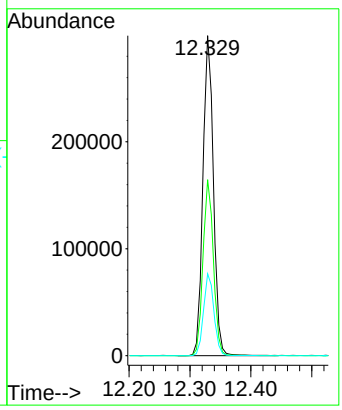





#89
n-Butylbenzene
Concen: 49.100 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 91 Resp: 35869

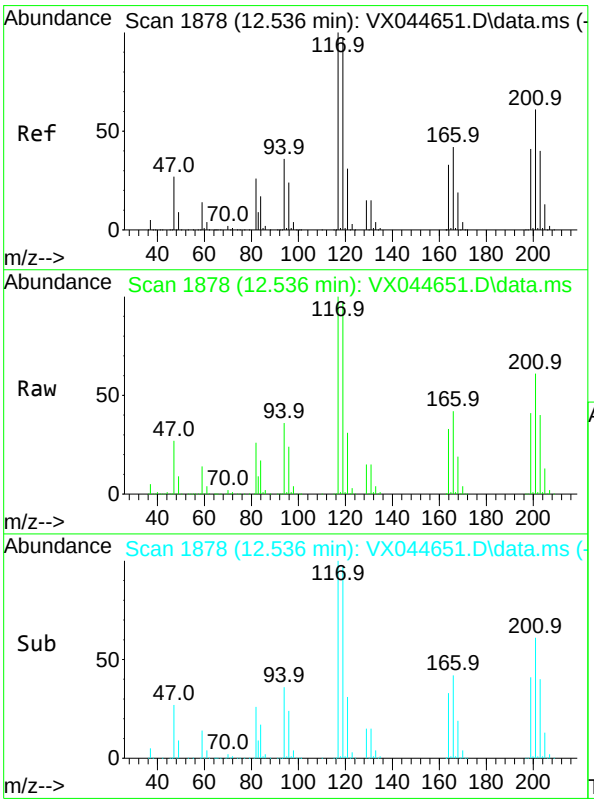
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.7 | 27.4 | 82.0 |
| 134 | 25.5 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

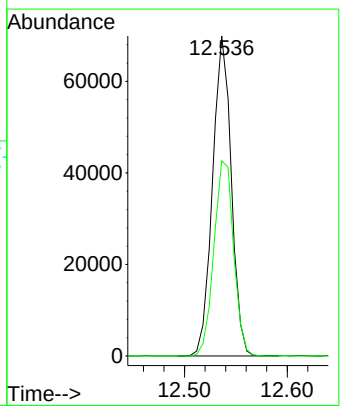
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

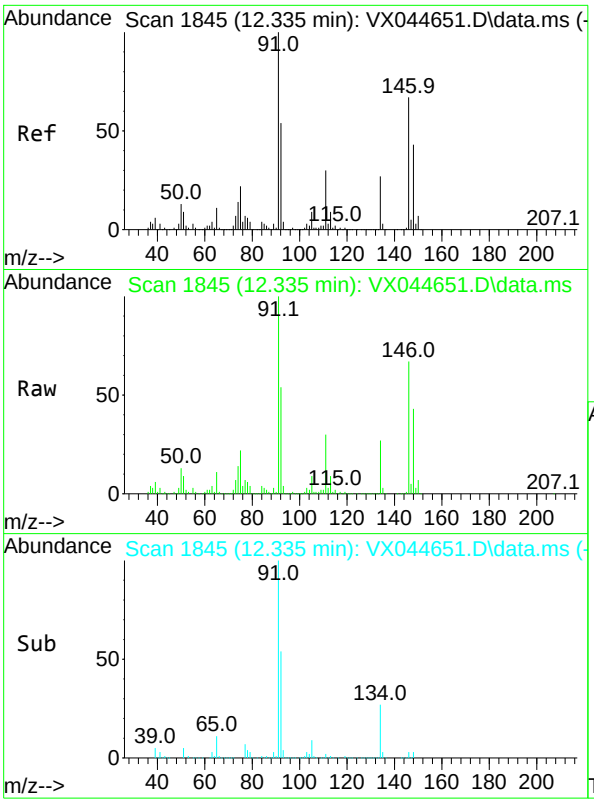



#90
Hexachloroethane
Concen: 45.808 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:117 Resp: 88230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.5 | 32.3 | 96.8 |

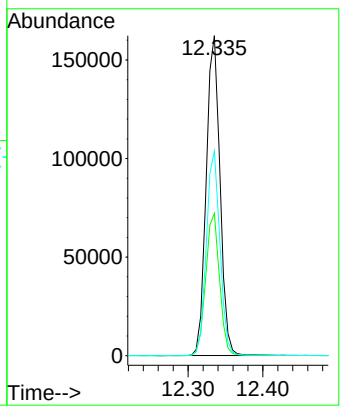





#91
1,2-Dichlorobenzene
Concen: 47.824 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:146 Resp: 20790

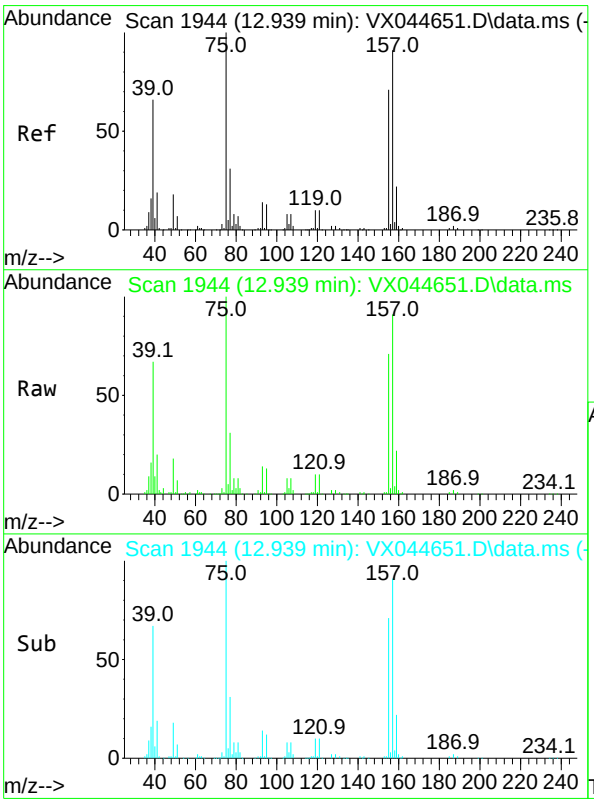
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.8 | 22.4 | 67.2 |
| 148 | 63.2 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

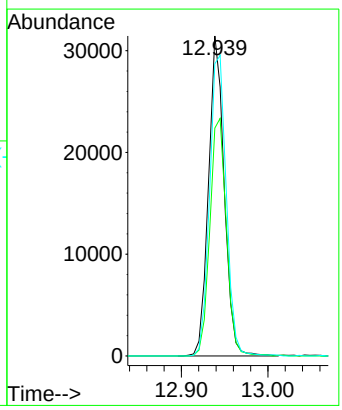
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

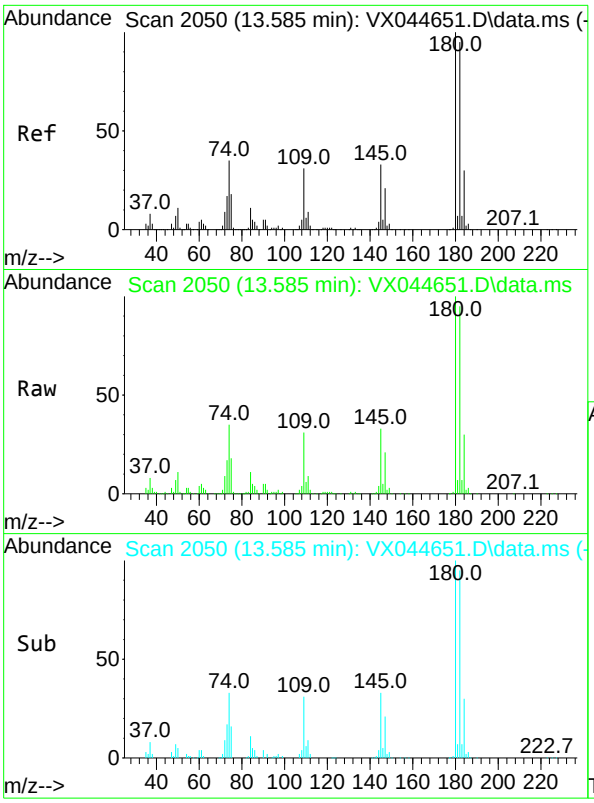



#92
1,2-Dibromo-3-Chloropropane
Concen: 44.962 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 75 Resp: 39659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 77.9 | 39.0 | 116.9 |
| 157 | 99.8 | 49.9 | 149.7 |

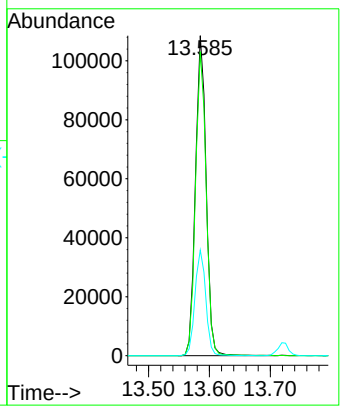





#93
1,2,4-Trichlorobenzene
Concen: 50.708 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:180 Resp: 13177

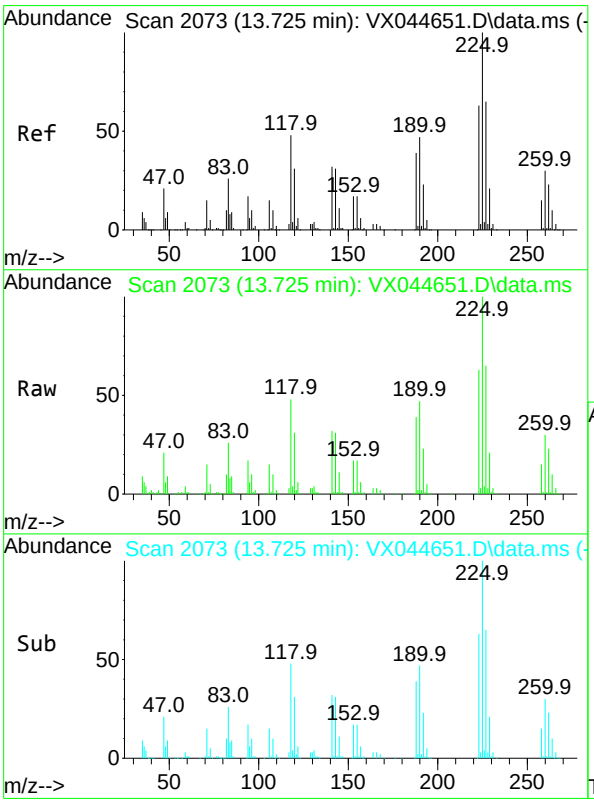
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.4 | 142.2 |
| 145 | 33.4 | 16.7 | 50.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

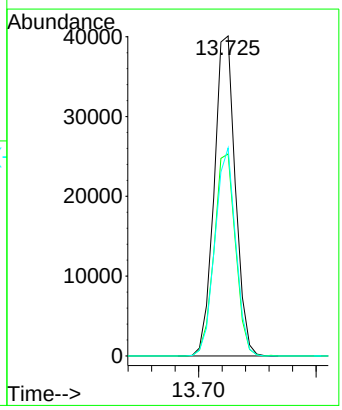
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

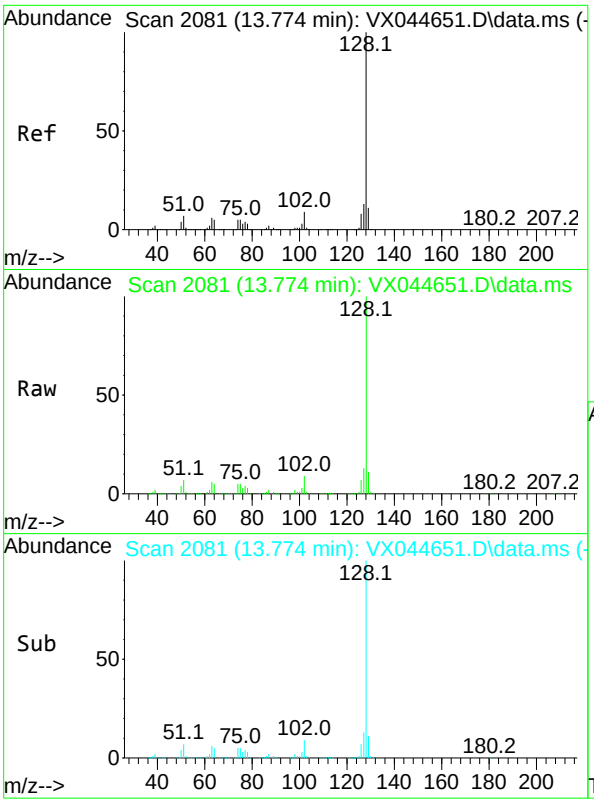



#94
Hexachlorobutadiene
Concen: 49.230 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:225 Resp: 50255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.8 | 31.9 | 95.7 |
| 227 | 63.6 | 31.8 | 95.4 |

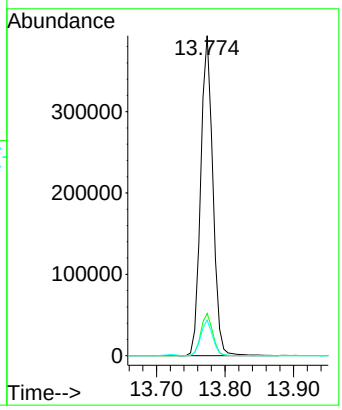





#95
Naphthalene
Concen: 48.639 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:128 Resp: 48752

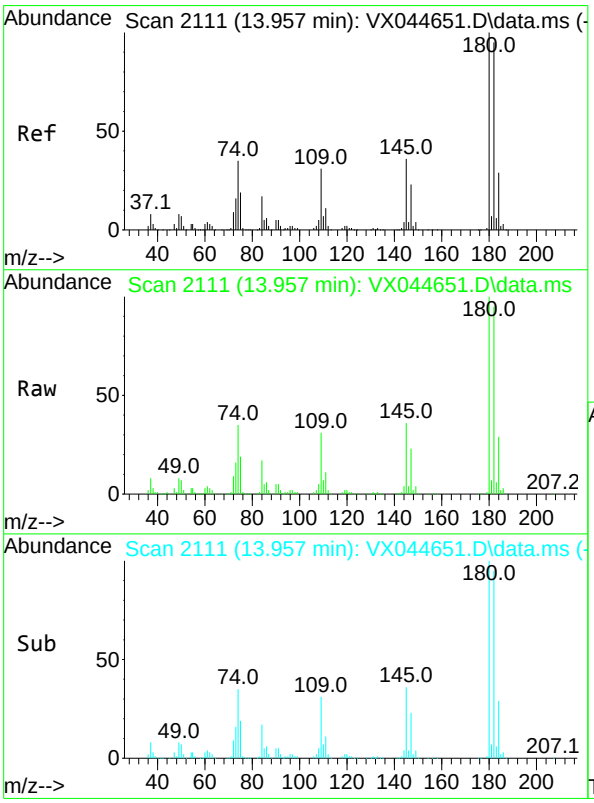
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 10.9 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

**Manual Integrations**
**APPROVED**

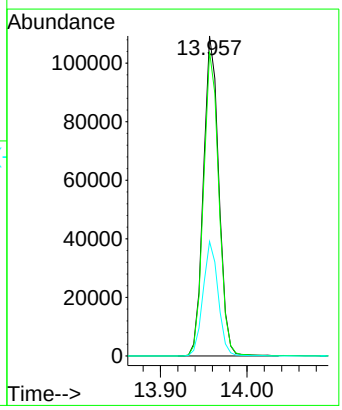
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 50.047 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:180 Resp: 134816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 47.2 | 141.6 |
| 145 | 35.1 | 17.5 | 52.6 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044652.D
Acq On : 15 Jan 2025 13:14
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:01:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.538 | 168 | 170573 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 308450 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 255886 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 110019 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 235193 | 91.349 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 182.700%# | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 181010 | 92.374 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 184.740%# | | | |
| 50) Toluene-d8 | 8.641 | 98 | 617688 | 90.404 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 180.800%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 236119 | 92.702 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 185.400%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 256287 | 111.657 | ug/l | 99 |
| 3) Chloromethane | 1.301 | 50 | 232745 | 93.768 | ug/l | 100 |
| 4) Vinyl Chloride | 1.374 | 62 | 238376 | 97.198 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 57815 | 98.728 | ug/l | 94 |
| 6) Chloroethane | 1.660 | 64 | 42244 | 93.931 | ug/l | 97 |
| 7) Trichlorofluoromethane | 1.861 | 101 | 275756 | 101.736 | ug/l | 99 |
| 8) Diethyl Ether | 2.130 | 74 | 99765 | 91.205 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.313 | 101 | 203976 | 100.109 | ug/l | 99 |
| 10) Methyl Iodide | 2.441 | 142 | 272297 | 97.884 | ug/l | 99 |
| 11) Tert butyl alcohol | 3.026 | 59 | 259620m | 447.152 | ug/l | |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 194870 | 97.570 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 116830 | 432.534 | ug/l | 98 |
| 14) Allyl chloride | 2.654 | 41 | 358388 | 92.162 | ug/l | 100 |
| 15) Acrylonitrile | 3.062 | 53 | 560841 | 498.179 | ug/l | 100 |
| 16) Acetone | 2.386 | 43 | 527741 | 518.081 | ug/l | 100 |
| 17) Carbon Disulfide | 2.495 | 76 | 529418 | 97.144 | ug/l | 99 |
| 18) Methyl Acetate | 2.697 | 43 | 321291 | 102.235 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 681776 | 94.245 | ug/l | 99 |
| 20) Methylene Chloride | 2.776 | 84 | 216105 | 91.100 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 190588 | 91.400 | ug/l | 99 |
| 22) Diisopropyl ether | 3.751 | 45 | 632562 | 93.579 | ug/l | 100 |
| 23) Vinyl Acetate | 3.715 | 43 | 2791754 | 471.863 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 378924 | 94.530 | ug/l | 99 |
| 25) 2-Butanone | 4.550 | 43 | 765500 | 505.435 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.458 | 77 | 357666 | 92.064 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.471 | 96 | 240149 | 91.559 | ug/l | 99 |
| 28) Bromochloromethane | 4.885 | 49 | 179896 | 96.041 | ug/l | 100 |
| 29) Tetrahydrofuran | 4.995 | 42 | 477227 | 488.500 | ug/l | 100 |
| 30) Chloroform | 5.080 | 83 | 373681 | 92.373 | ug/l | 99 |
| 31) Cyclohexane | 5.452 | 56 | 319131 | 98.436 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 5.367 | 97 | 338119 | 90.918 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 255714 | 93.746 | ug/l | 99 |
| 37) Ethyl Acetate | 4.702 | 43 | 300700 | 103.517 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 287048 | 93.555 | ug/l | 99 |
| 39) Methylcyclohexane | 7.367 | 83 | 359758 | 99.352 | ug/l | 98 |
| 40) Benzene | 6.025 | 78 | 785626 | 92.946 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044652.D
Acq On : 15 Jan 2025 13:14
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 16 01:01:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.910 | 41 | 168481 | 100.920 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 292036 | 94.663 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.330 | 43 | 512598 | 95.925 | ug/l | | 99 |
| 44) Trichloroethene | 7.117 | 130 | 199570 | 98.212 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 200877 | 94.413 | ug/l | | 99 |
| 46) Dibromomethane | 7.568 | 93 | 150112 | 92.680 | ug/l | | 98 |
| 47) Bromodichloromethane | 7.812 | 83 | 307990 | 92.723 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.684 | 41 | 248667 | 100.250 | ug/l | | 100 |
| 49) 1,4-Dioxane | 7.665 | 88 | 101384 | 1959.056 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 1372888 | 464.897 | ug/l | | 100 |
| 52) Toluene | 8.708 | 92 | 474392 | 91.697 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.970 | 75 | 330982 | 96.446 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 349516 | 93.927 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 192326 | 91.885 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.110 | 69 | 337626 | 93.812 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 325142 | 91.220 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 817528 | 462.693 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 1019940 | 469.454 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 227418 | 92.570 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 202247 | 92.200 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 157748 | 98.176 | ug/l | | 98 |
| 65) Chlorobenzene | 10.073 | 112 | 510916 | 94.003 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 184816 | 93.565 | ug/l | | 100 |
| 67) Ethyl Benzene | 10.189 | 91 | 909208 | 95.872 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 661488 | 187.963 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 329336 | 92.536 | ug/l | | 99 |
| 70) Styrene | 10.653 | 104 | 547016 | 95.197 | ug/l | | 100 |
| 71) Bromoform | 10.799 | 173 | 155379 | 96.648 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 833874 | 92.779 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 414046 | 93.463 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 278679 | 89.776 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 250918m | 96.568 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 192700 | 91.729 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 956202 | 96.470 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 584682 | 91.317 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 672586 | 91.926 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 114832 | 98.354 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 655250 | 93.421 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 690320 | 90.233 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 681398 | 91.646 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 848327 | 95.235 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 695433 | 94.999 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 353809 | 97.115 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 347517 | 96.070 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 633246 | 100.715 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 149253 | 90.037 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 340683 | 91.056 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 70862 | 93.344 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 233417 | 104.359 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 88214 | 100.406 | ug/l | | 100 |
| 95) Naphthalene | 13.774 | 128 | 849403 | 98.464 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 232152 | 100.133 | ug/l | | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044652.D
Acq On : 15 Jan 2025 13:14
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:01:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
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_X\Data\VX011525\
Data File : VX044652.D
Acq On : 15 Jan 2025 13:14
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

Quant Time: Jan 16 01:01:38 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
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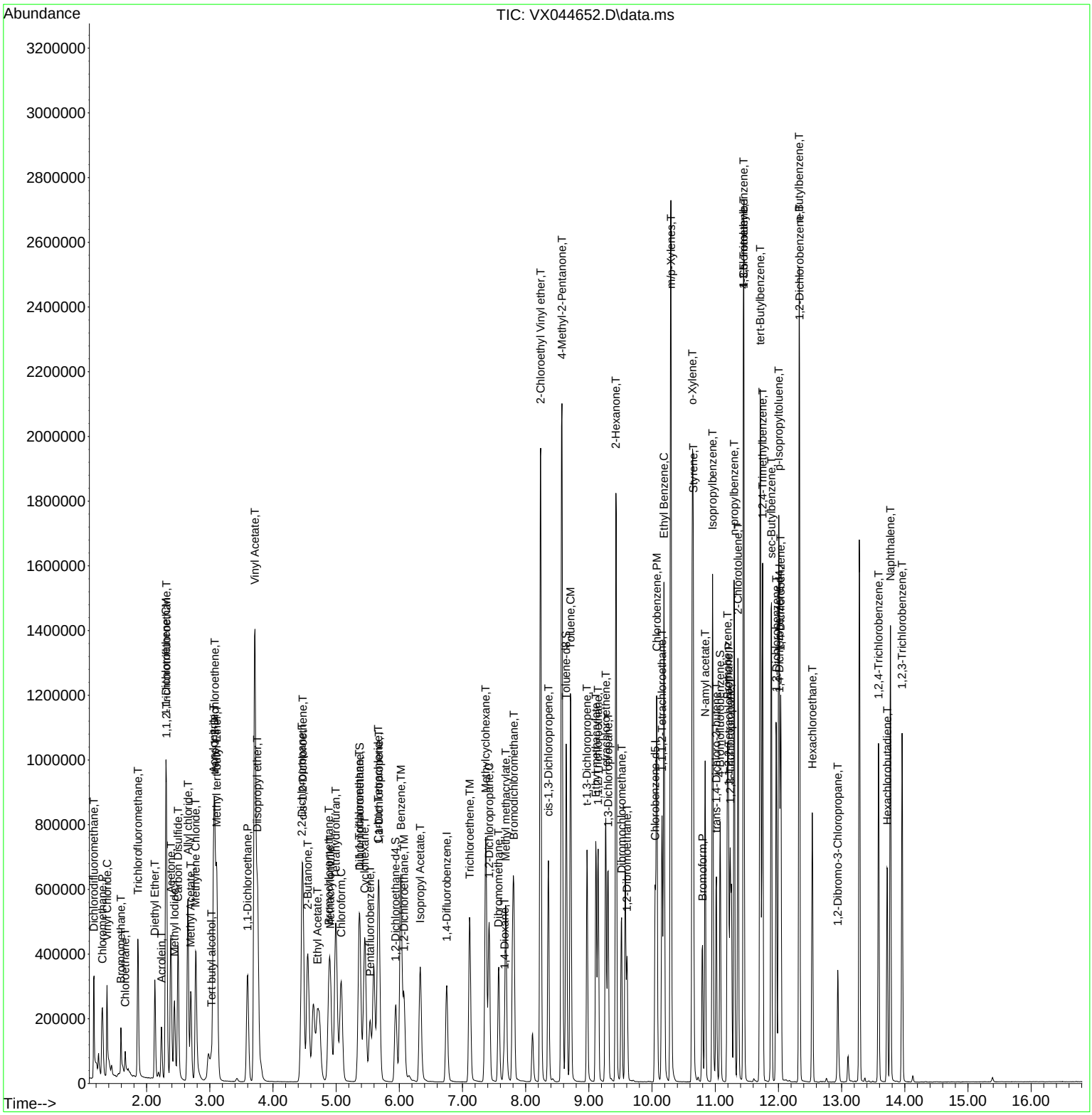
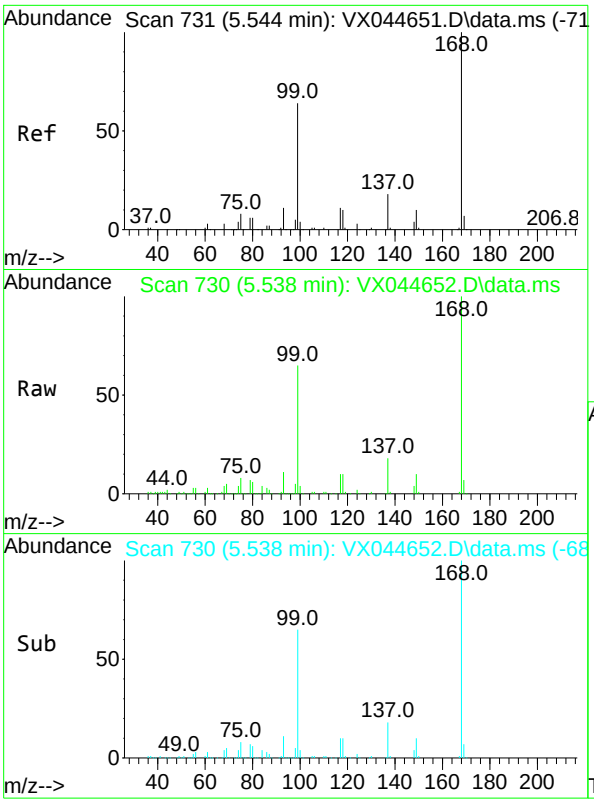
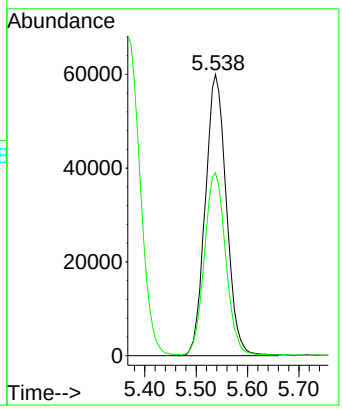





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:168 Resp: 17057

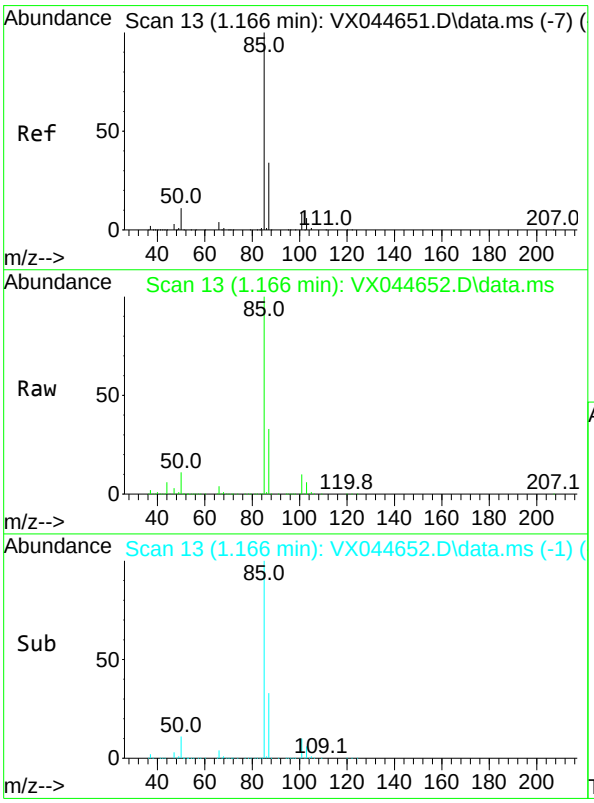
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.8 | 51.1 | 76.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

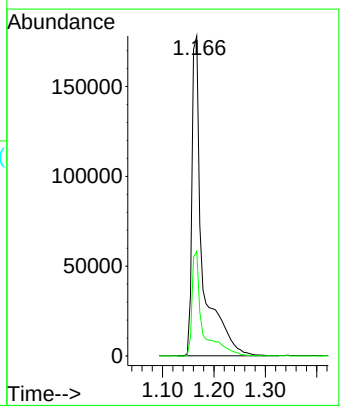
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

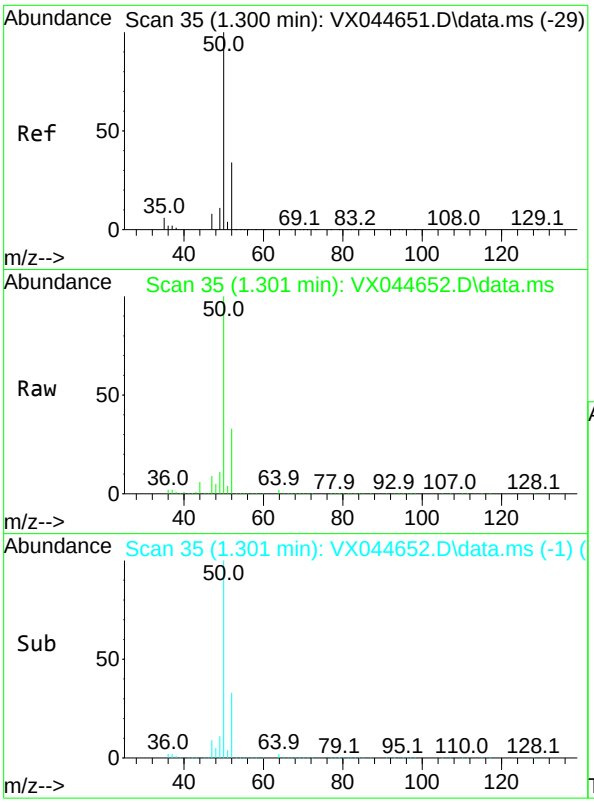



#2
Dichlorodifluoromethane
Concen: 111.657 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 85 Resp: 256287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.8 | 16.8 | 50.4 |

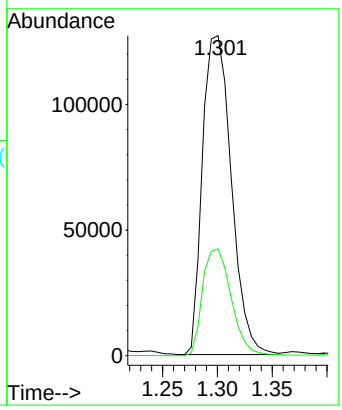





#3
Chloromethane
Concen: 93.768 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 50 Resp: 23274

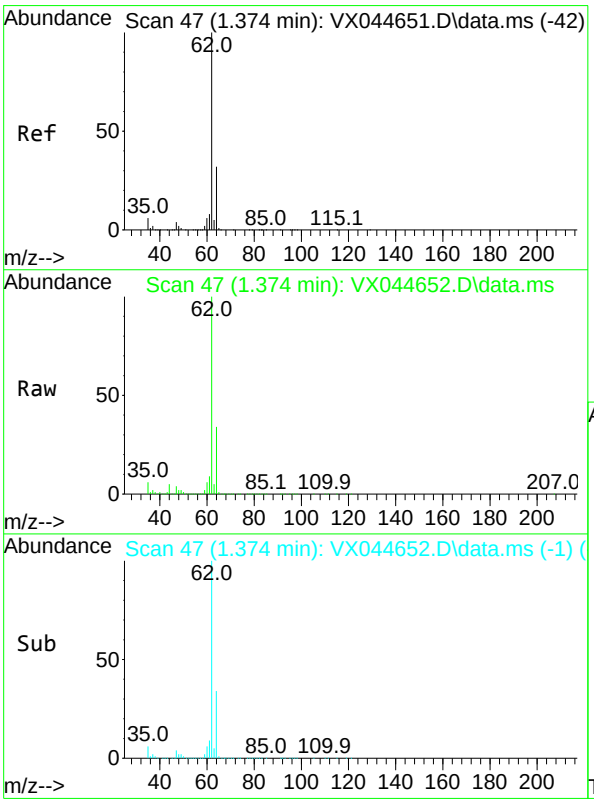
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.5 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

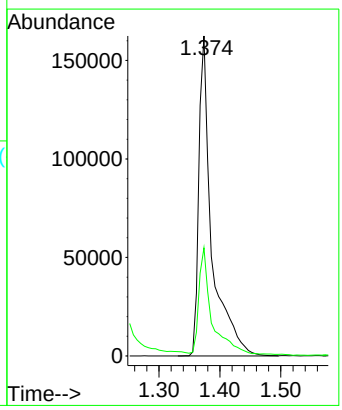
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

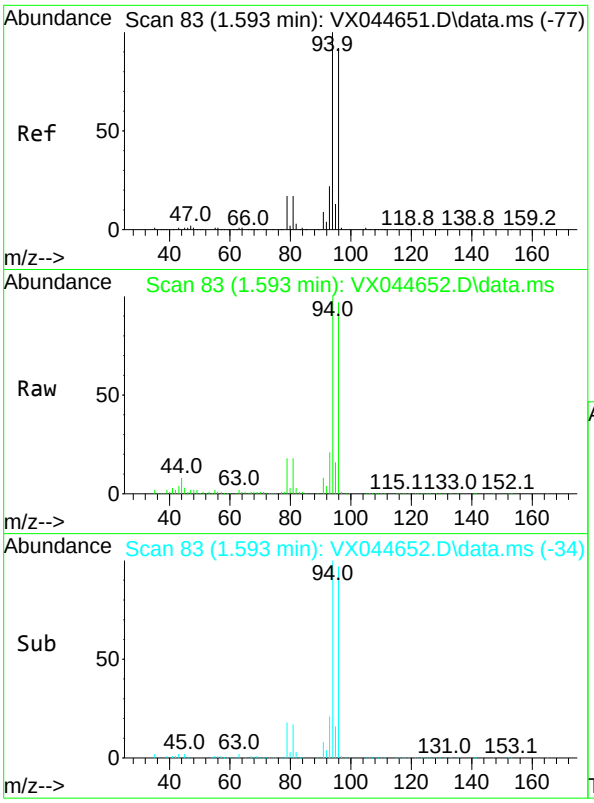



#4
Vinyl Chloride
Concen: 97.198 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 62 Resp: 238376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.3 | 26.6 | 39.8 |

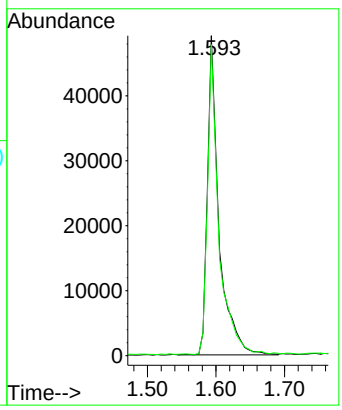





#5
Bromomethane
Concen: 98.728 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 94 Resp: 5781

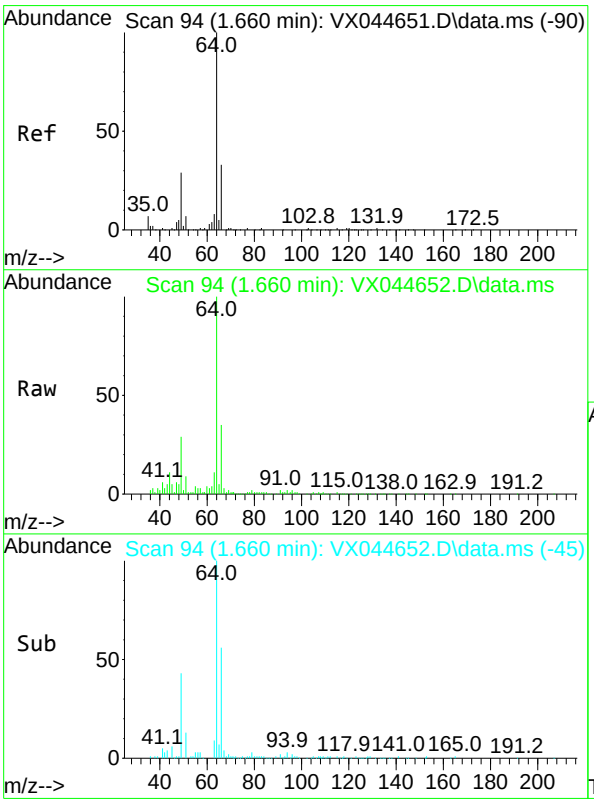
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 97.0 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

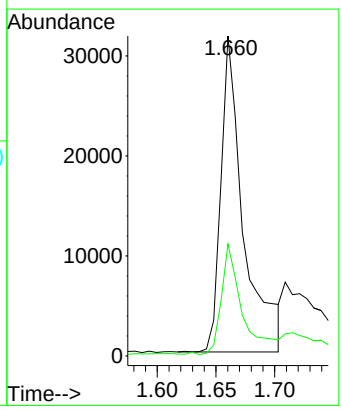
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

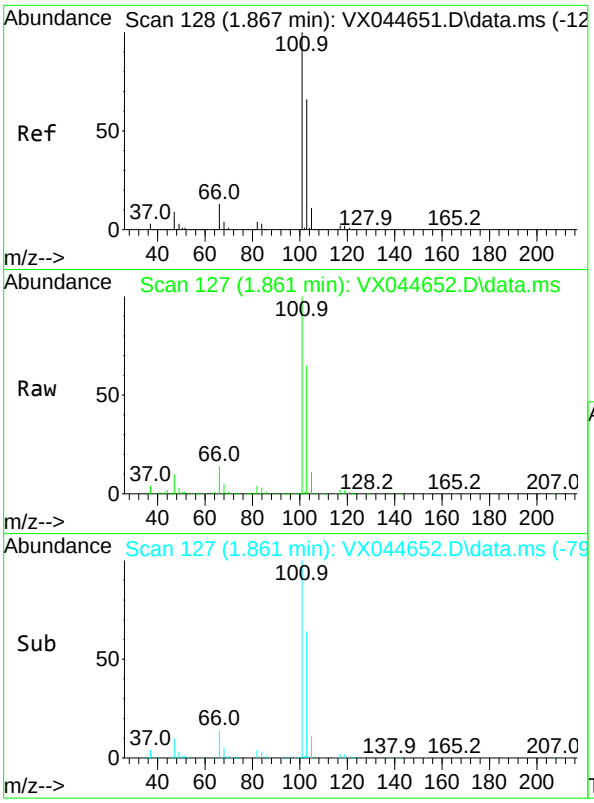



#6
Chloroethane
Concen: 93.931 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 64 Resp: 42244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.8 | 26.6 | 39.8 |

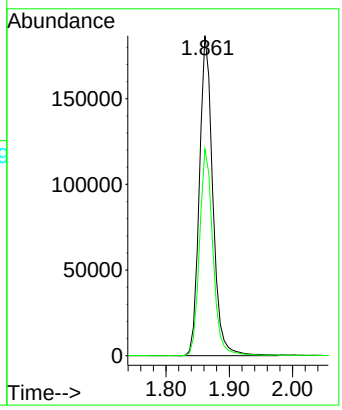





#7
Trichlorofluoromethane
Concen: 101.736 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:101 Resp: 27575

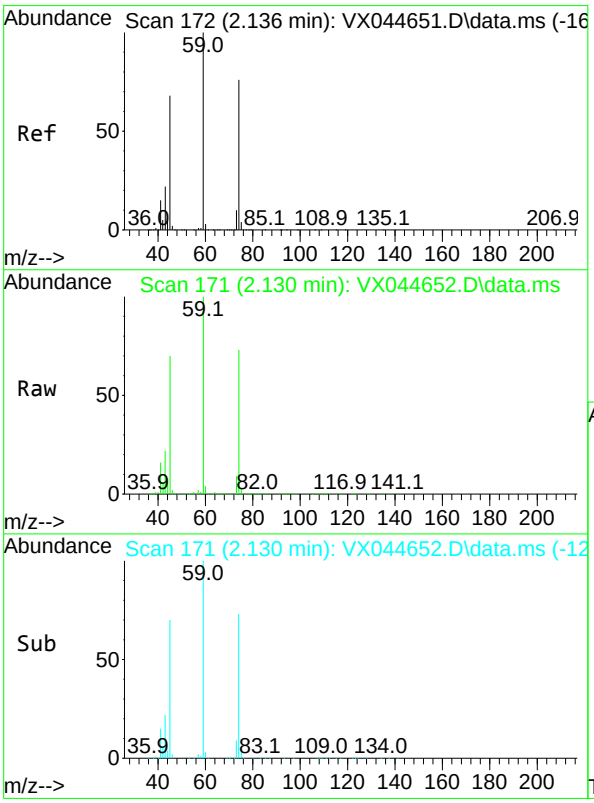
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 52.5 | 78.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

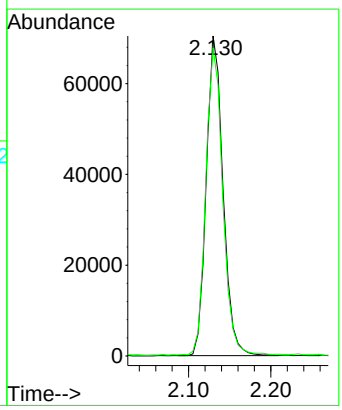
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

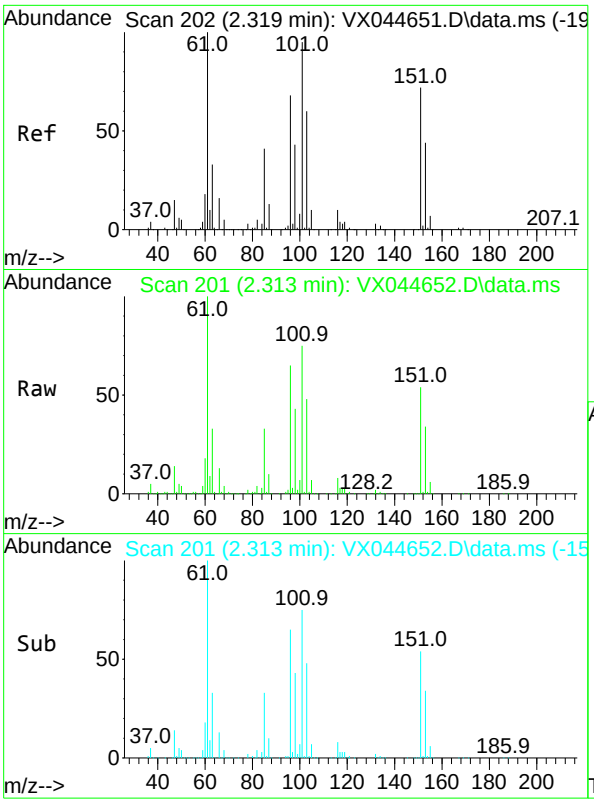



#8
Diethyl Ether
Concen: 91.205 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 74 Resp: 99765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.0 | 47.1 | 141.3 |

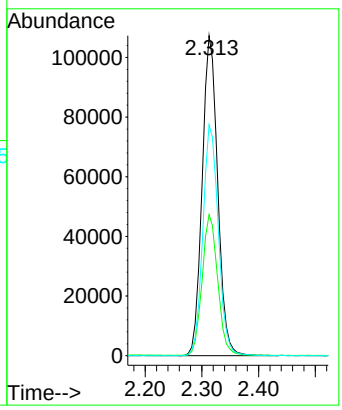





#9
1,1,2-Trichlorotrifluoroethane
Concen: 100.109 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:101 Resp: 20397

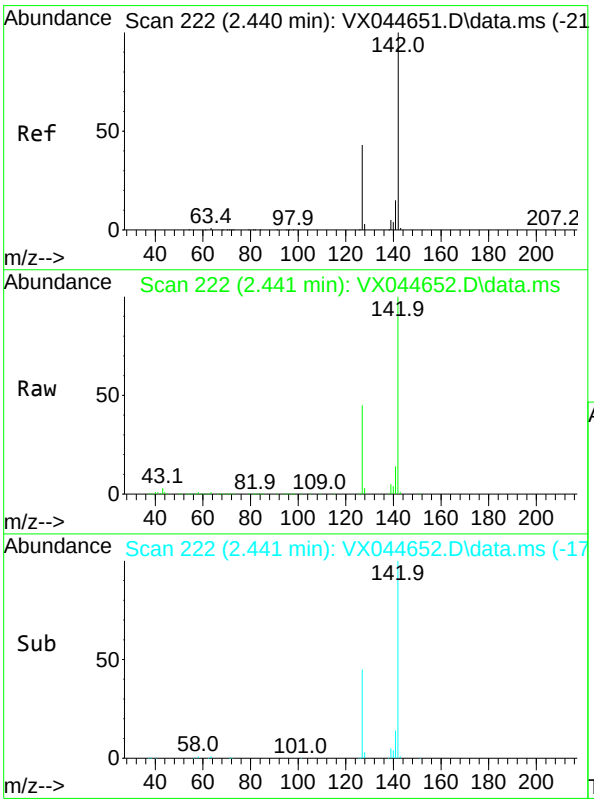
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.8 | 35.3 | 52.9 |
| 151 | 72.1 | 58.2 | 87.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

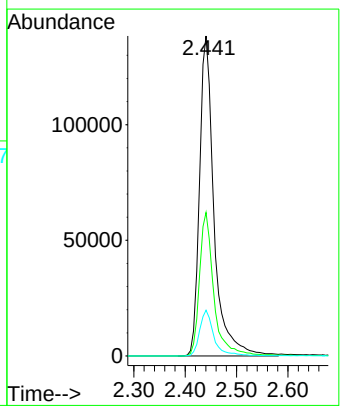
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

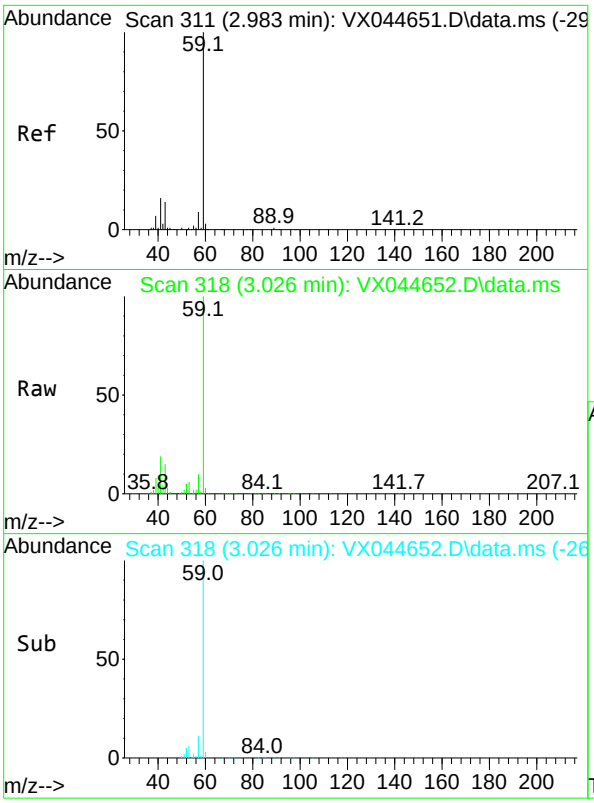



#10
Methyl Iodide
Concen: 97.884 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:142 Resp: 272297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.3 | 35.0 | 52.4 |
| 141 | 14.1 | 11.7 | 17.5 |

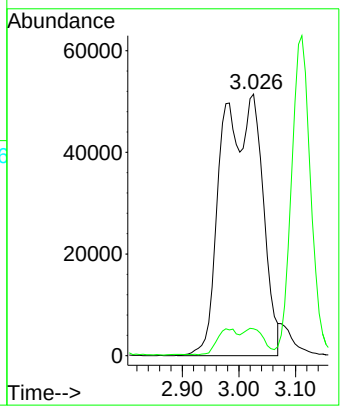





#11
Tert butyl alcohol
Concen: 447.152 ug/l m
RT: 3.026 min Scan# 3
Delta R.T. 0.043 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 59 Resp: 25962

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 5.0 | 3.9 | 5.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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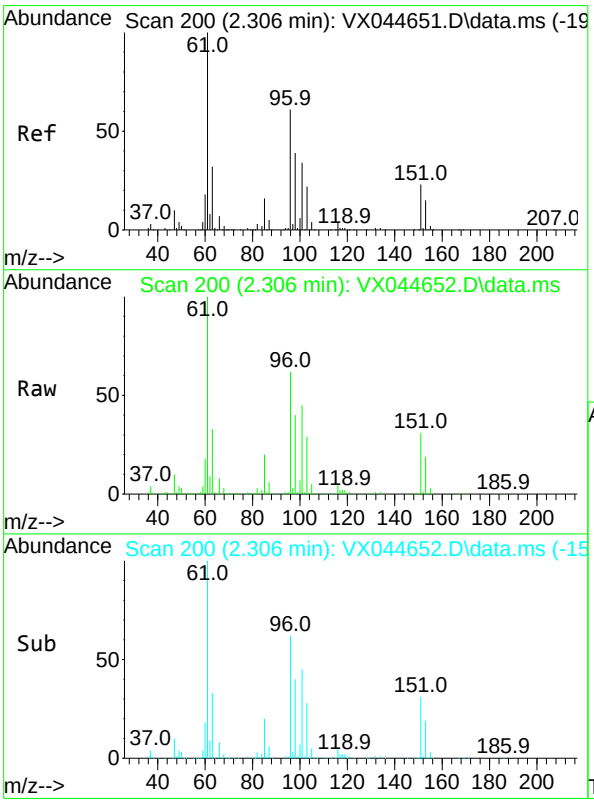
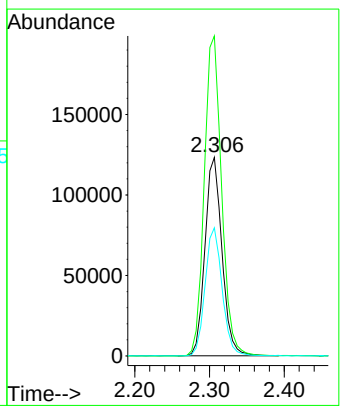
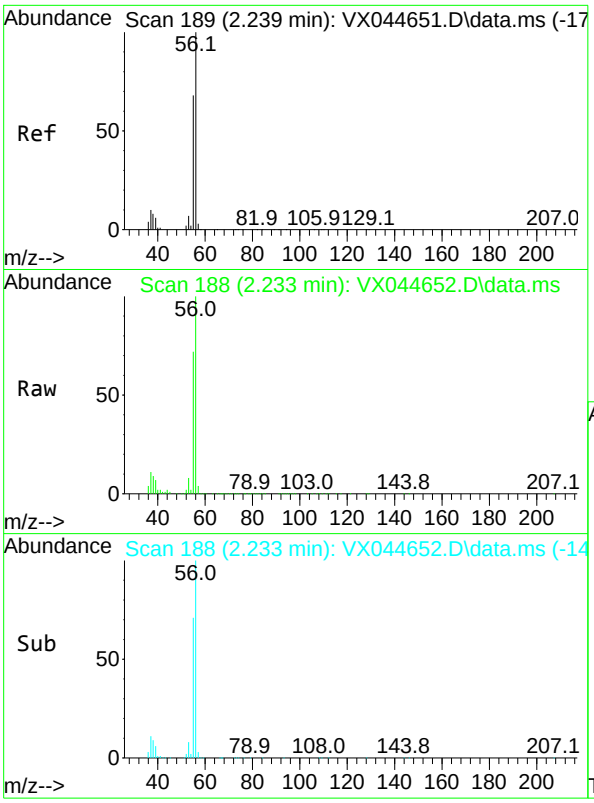



#12
1,1-Dichloroethene
Concen: 97.570 ug/l
RT: 2.306 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 96 Resp: 194870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.3 | 131.1 | 196.7 |
| 98 | 64.6 | 51.2 | 76.8 |

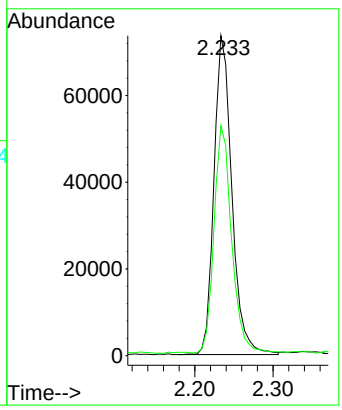





#13
Acrolein
Concen: 432.534 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 56 Resp: 11683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.2 | 55.1 | 82.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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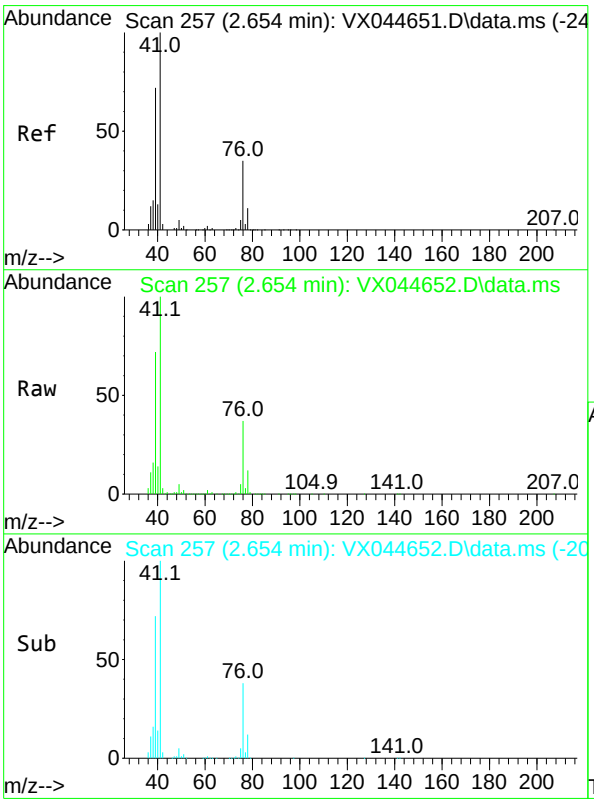
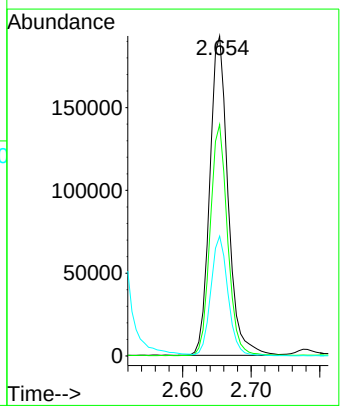
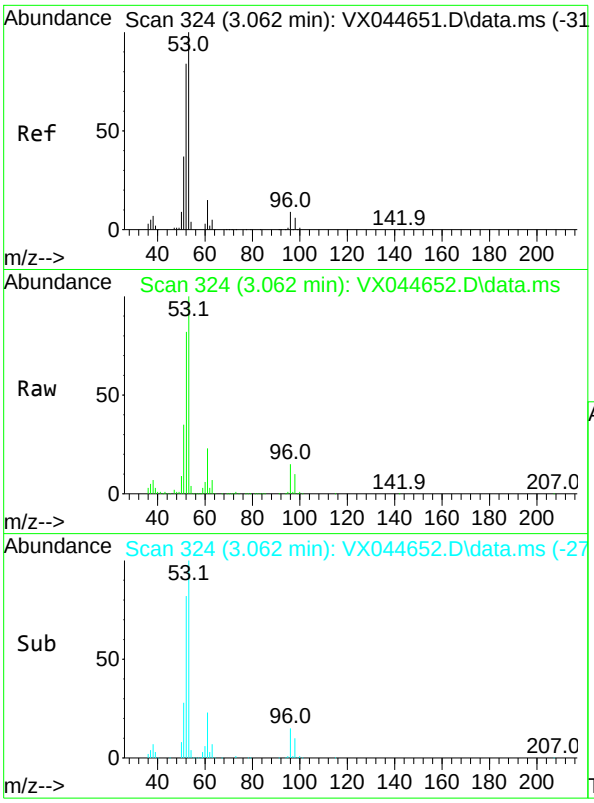



#14
Allyl chloride
Concen: 92.162 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 41 Resp: 358388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.7 | 54.9 | 82.3 |
| 76 | 35.1 | 28.4 | 42.6 |

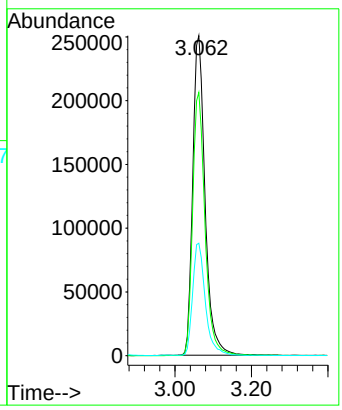





#15
Acrylonitrile
Concen: 498.179 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 53 Resp: 56084

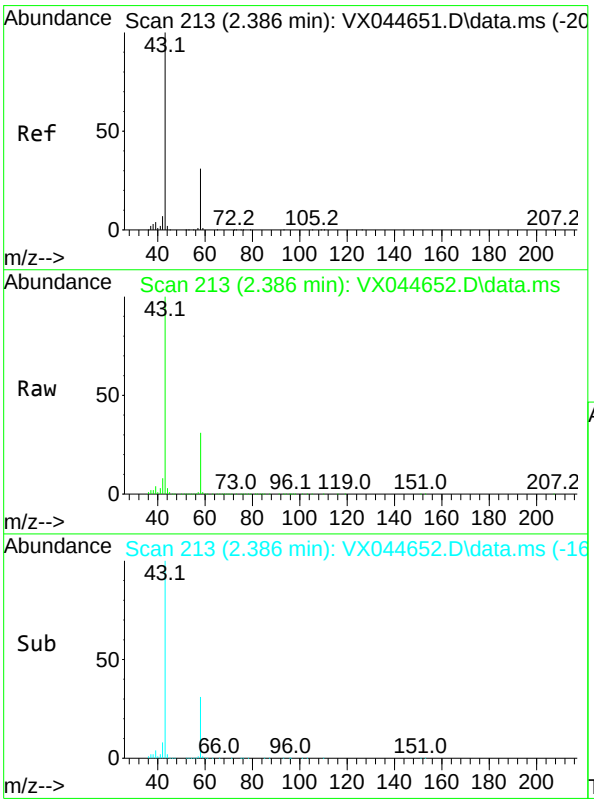
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.7 | 66.0 | 99.0 |
| 51 | 36.1 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

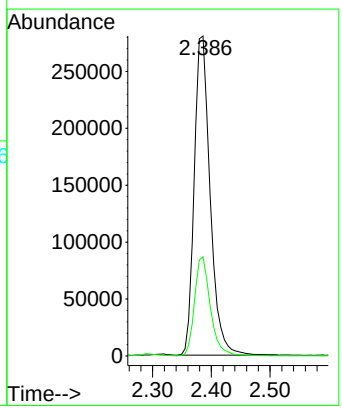
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

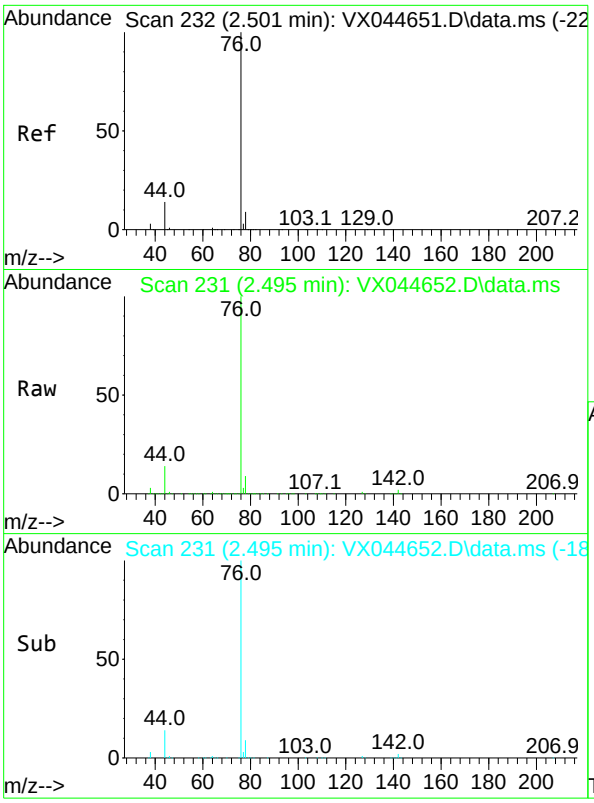



#16
Acetone
Concen: 518.081 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 527741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.0 | 24.6 | 37.0 |

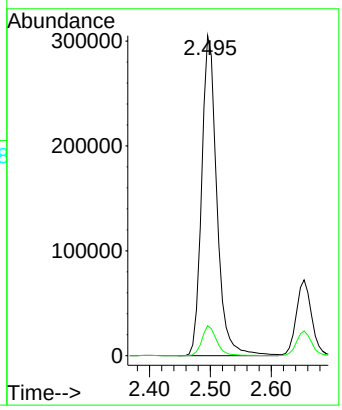





#17
Carbon Disulfide
Concen: 97.144 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 76 Resp: 52941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.1 | 10.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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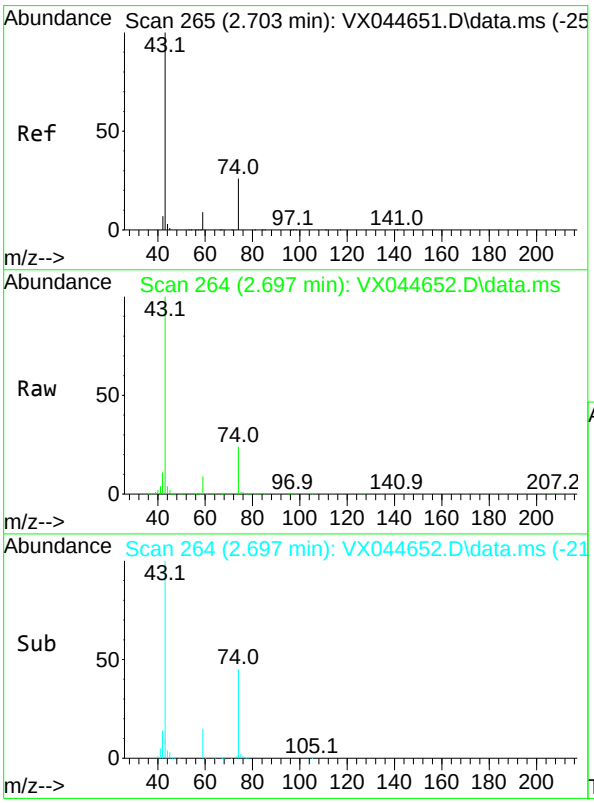
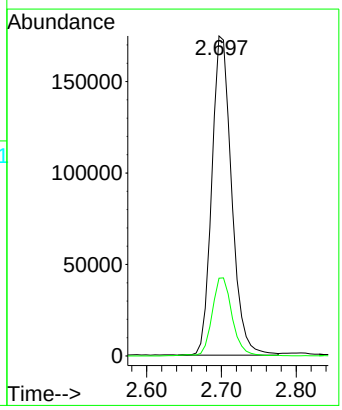
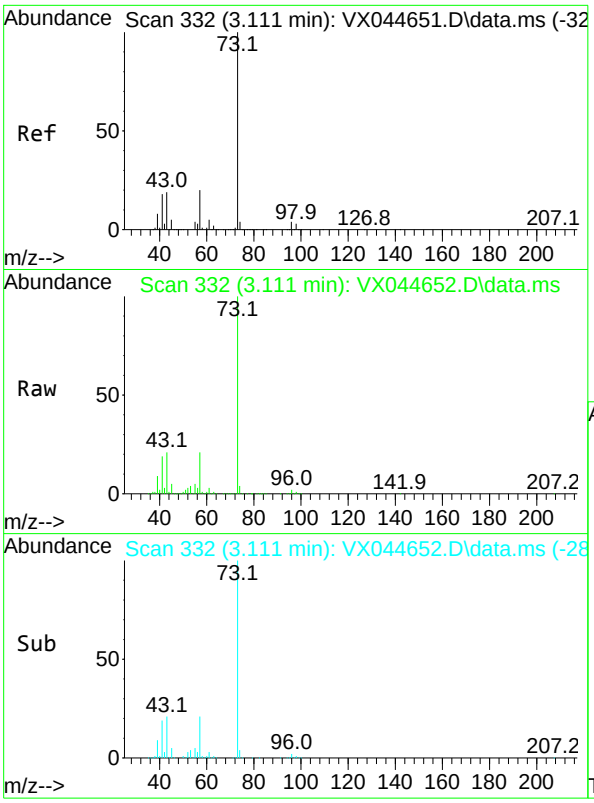



#18
Methyl Acetate
Concen: 102.235 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 321291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.1 | 19.8 | 29.8 |

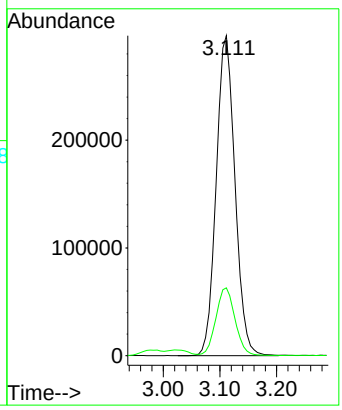





#19
Methyl tert-butyl Ether
Concen: 94.245 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 73 Resp: 68177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.1 | 17.4 | 26.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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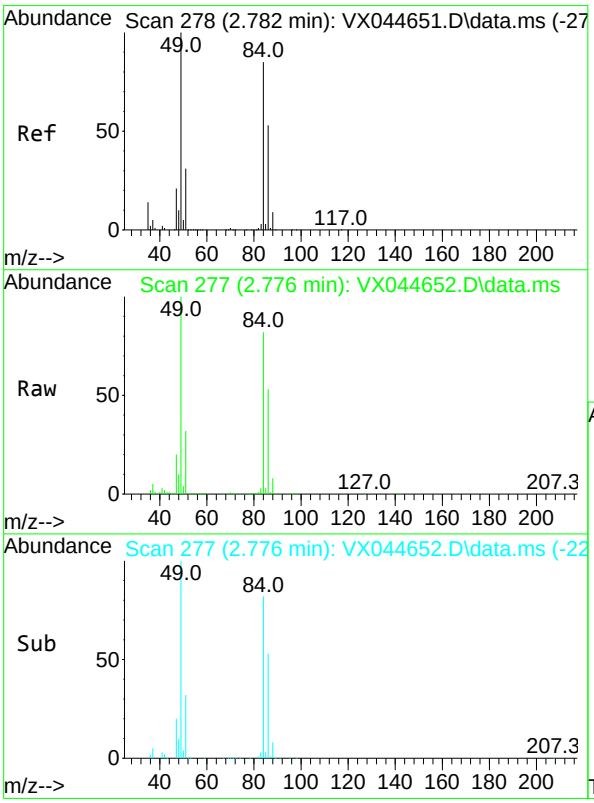
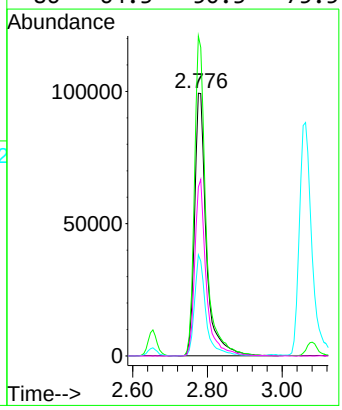
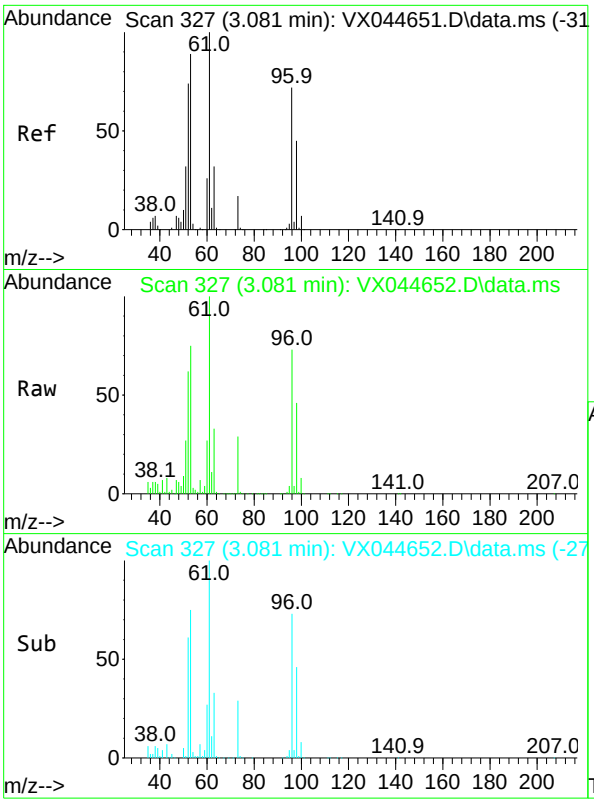



#20
Methylene Chloride
Concen: 91.100 ug/l
RT: 2.776 min Scan# 277
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 84 Resp: 216105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 121.9 | 94.2 | 141.4 |
| 51 | 38.4 | 28.8 | 43.2 |
| 86 | 64.3 | 50.3 | 75.5 |

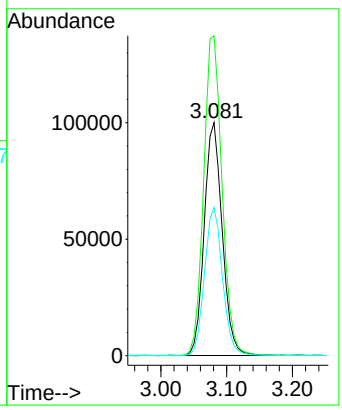





#21
trans-1,2-Dichloroethene
Concen: 91.400 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 96 Resp: 19058

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.2 | 111.0 | 166.6 |
| 98 | 63.6 | 50.2 | 75.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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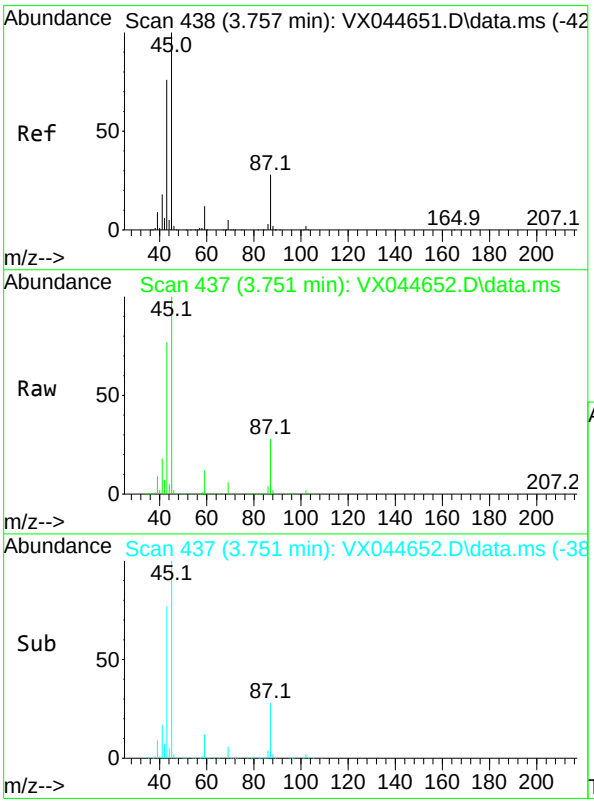
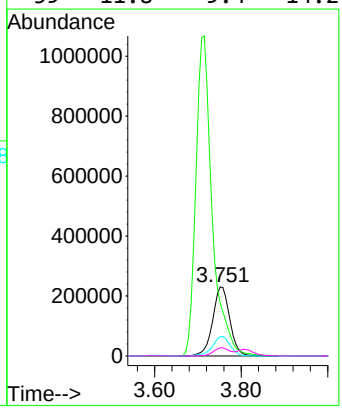
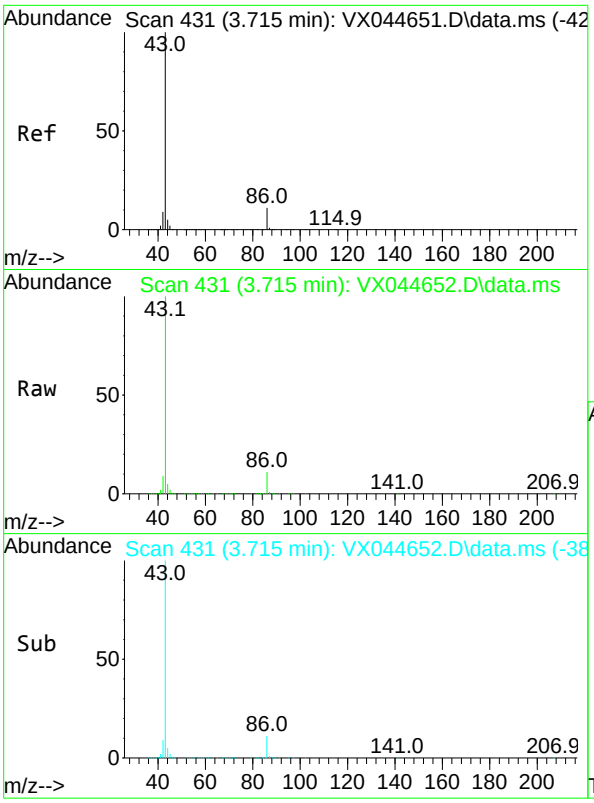



#22
Diisopropyl ether
Concen: 93.579 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 45 Resp: 632562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 76.7 | 61.0 | 91.6 |
| 87 | 28.0 | 22.7 | 34.1 |
| 59 | 11.8 | 9.4 | 14.2 |

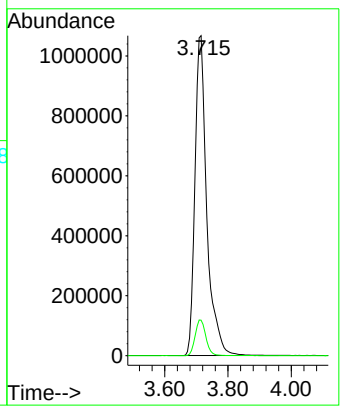





#23
Vinyl Acetate
Concen: 471.863 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 279175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.1 | 8.9 | 13.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

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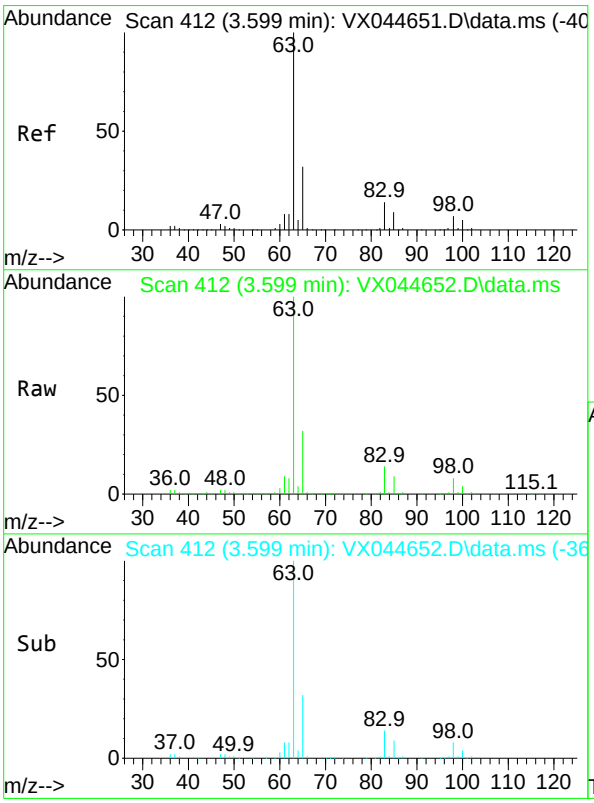
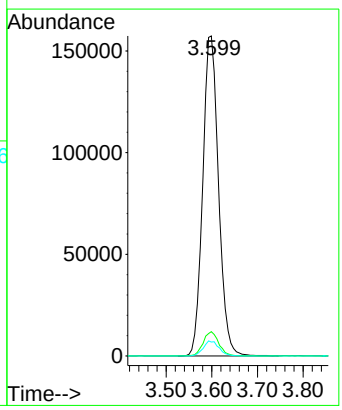
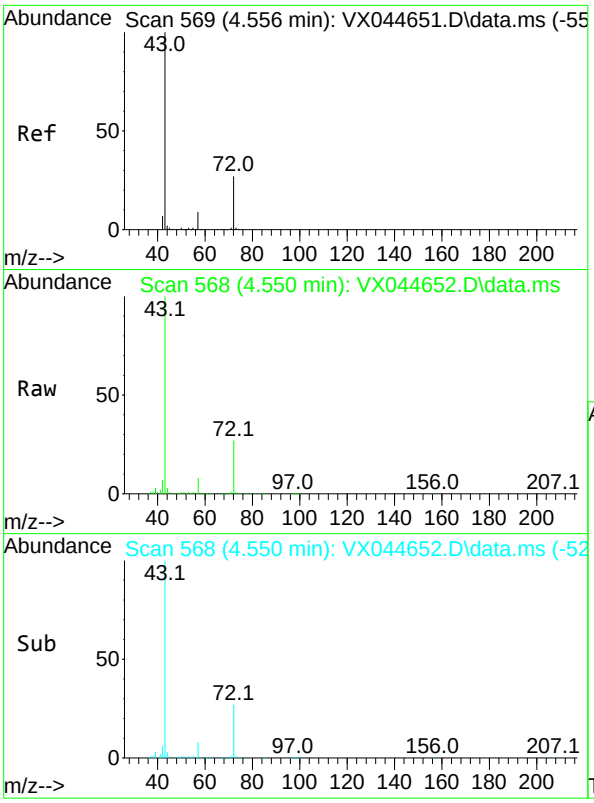



#24
1,1-Dichloroethane
Concen: 94.530 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 63 Resp: 378924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.6 | 3.6 | 10.9 |
| 100 | 4.4 | 2.5 | 7.5 |






#25
2-Butanone
Concen: 505.435 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 76550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.9 | 21.7 | 32.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

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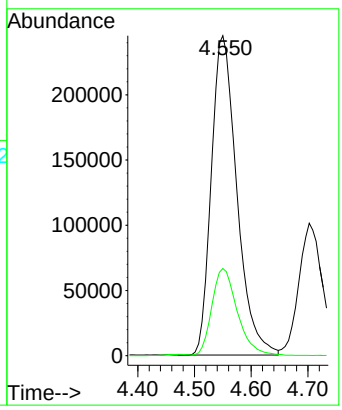
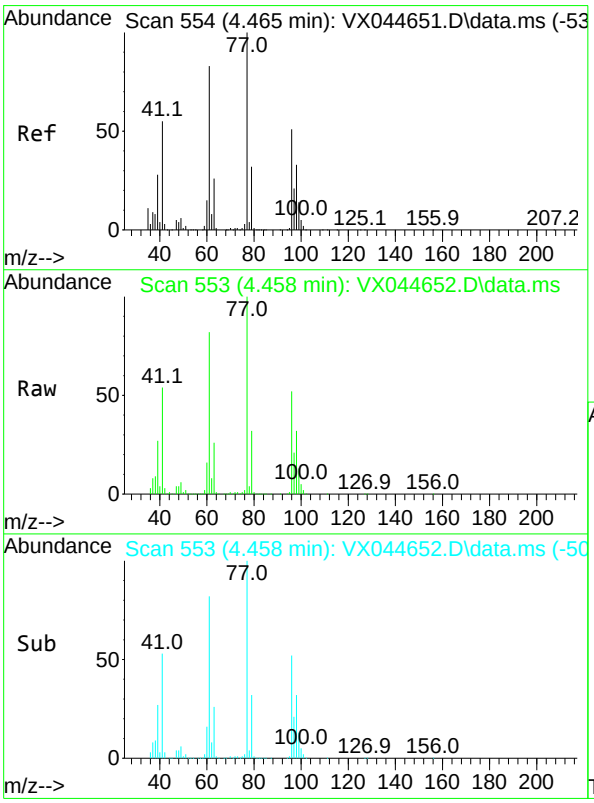
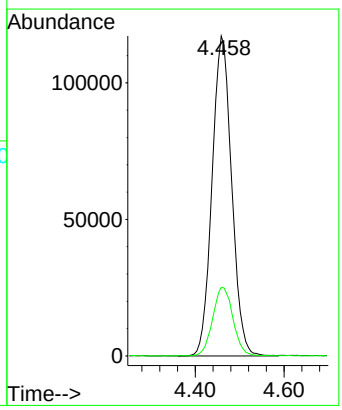


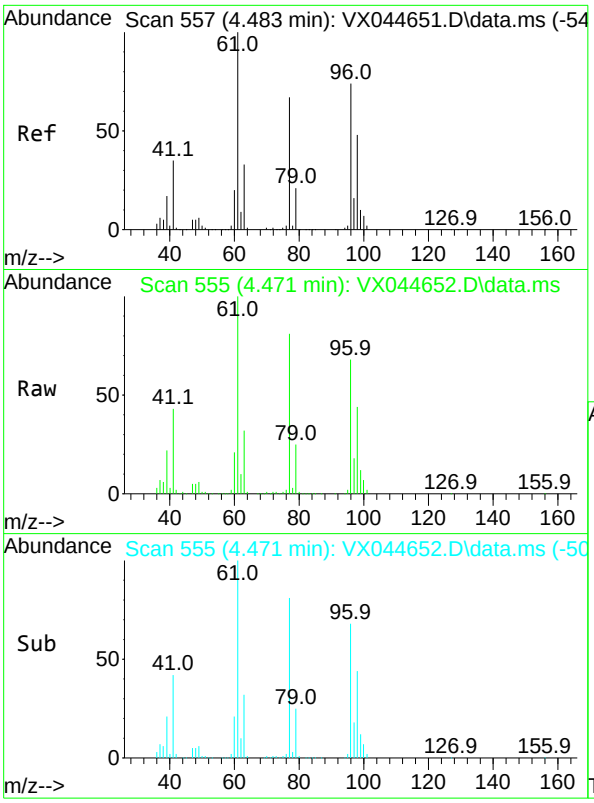




#26
2,2-Dichloropropane
Concen: 92.064 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 77 Resp: 357666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |

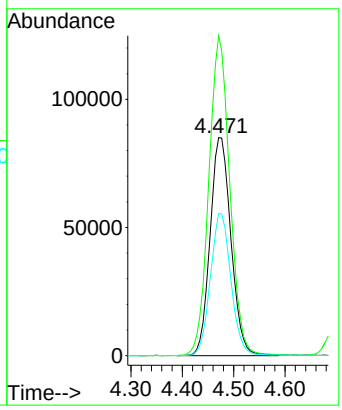





#27
cis-1,2-Dichloroethene
Concen: 91.559 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 96 Resp: 24014

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.5 | 0.0 | 296.0 |
| 98 | 64.4 | 0.0 | 130.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

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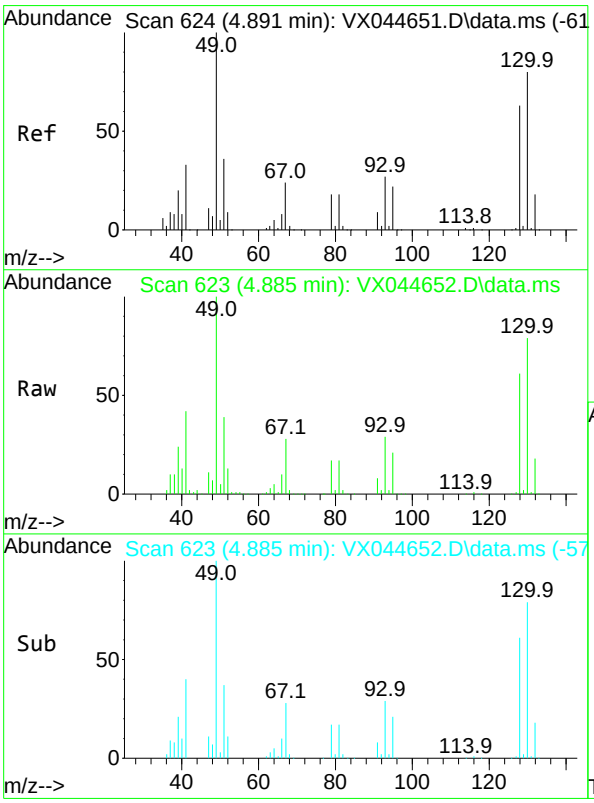
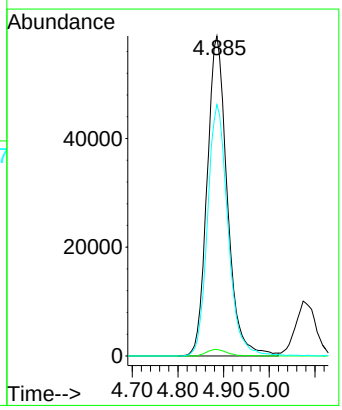
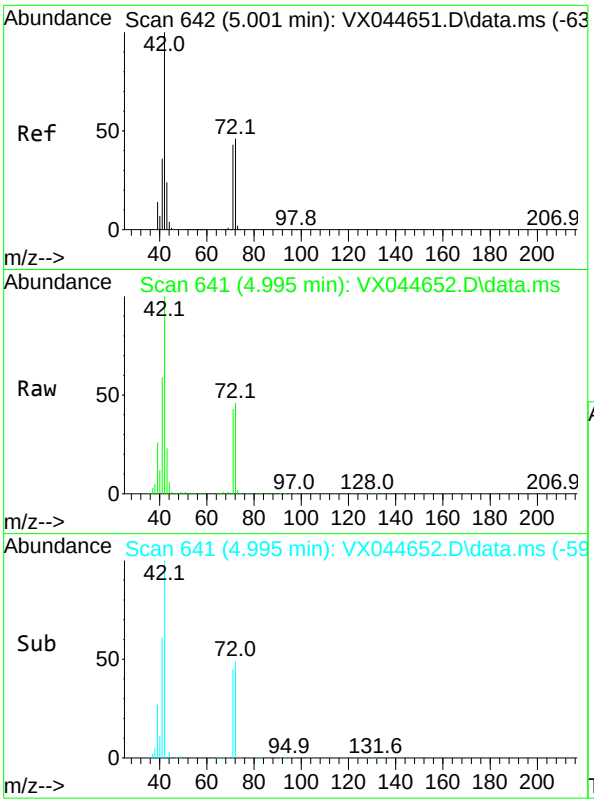



#28
Bromochloromethane
Concen: 96.041 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 49 Resp: 179896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 4.4 |
| 130 | 79.6 | 63.4 | 95.2 |

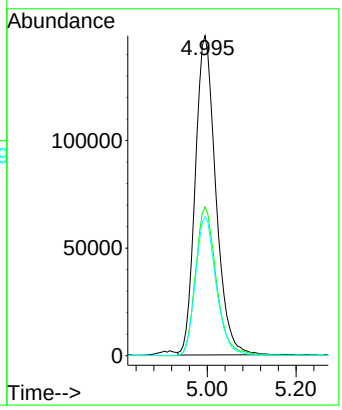





#29
Tetrahydrofuran
Concen: 488.500 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 42 Resp: 47722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.6 | 38.2 | 57.4 |
| 71 | 43.9 | 35.3 | 52.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

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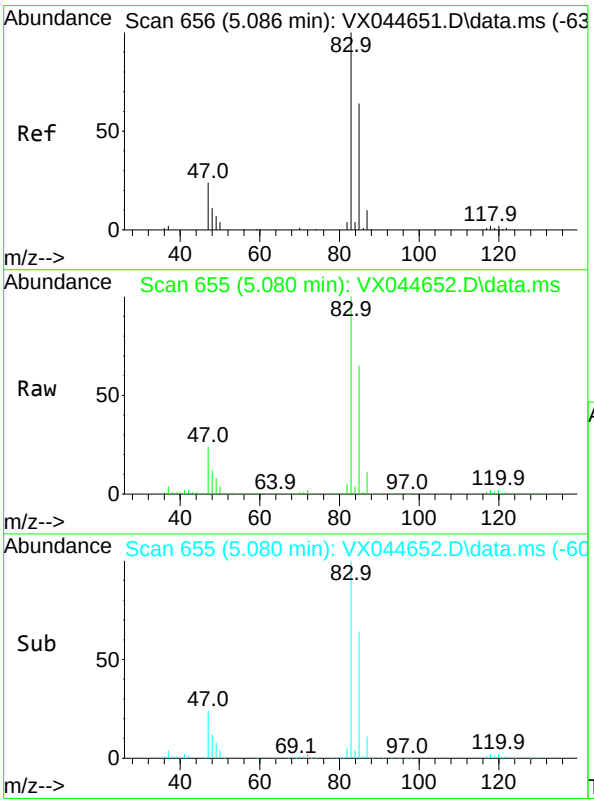
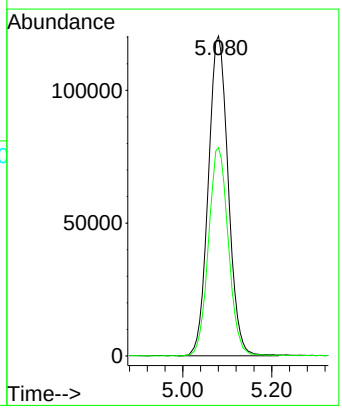
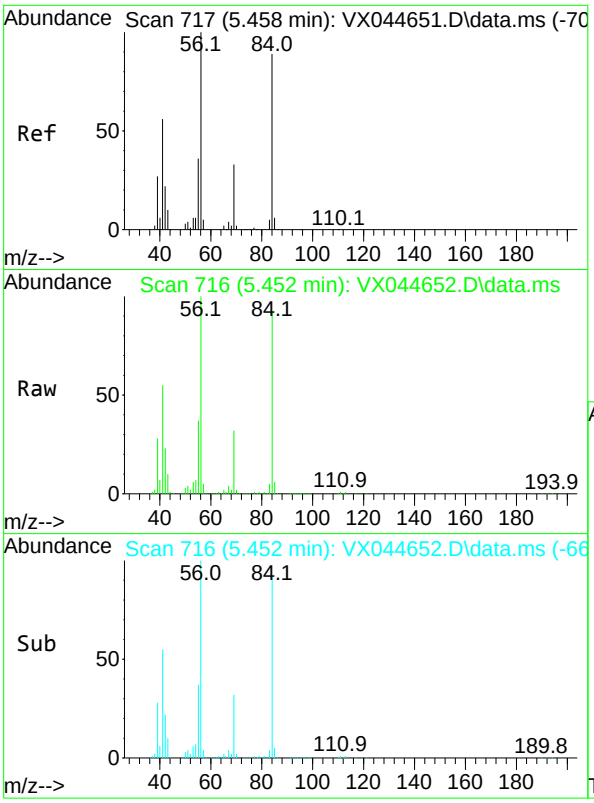



#30
Chloroform
Concen: 92.373 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 83 Resp: 373681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 51.2 | 76.8 |

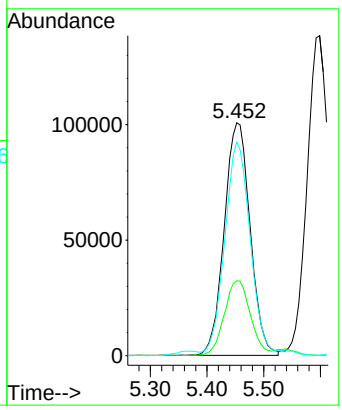





#31
Cyclohexane
Concen: 98.436 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 56 Resp: 31913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.0 | 26.8 | 40.2 |
| 84 | 90.6 | 71.0 | 106.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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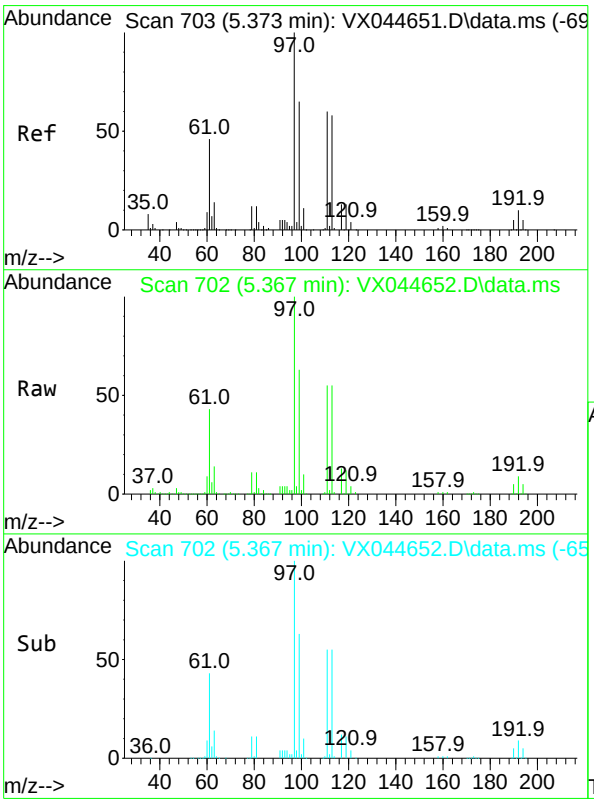
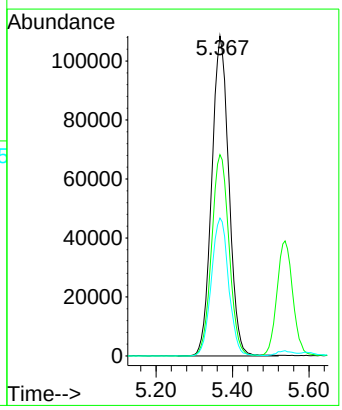
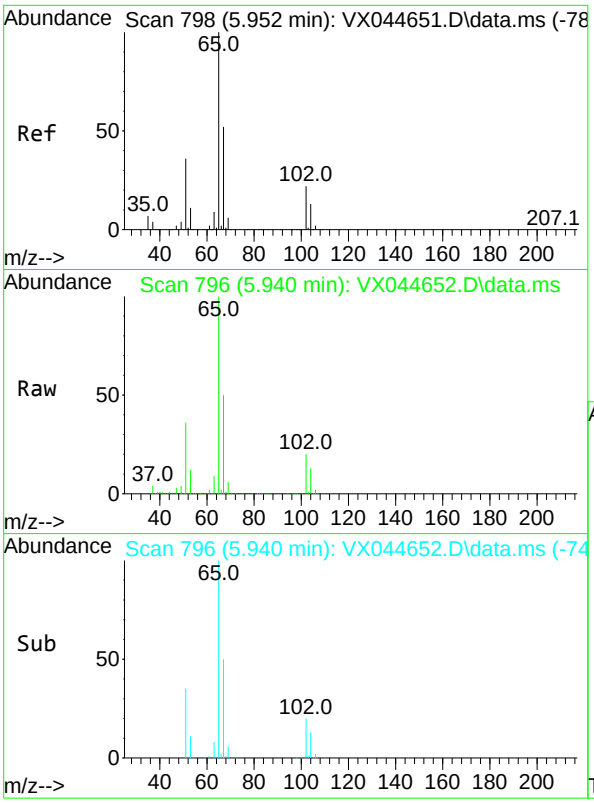



#32
1,1,1-Trichloroethane
Concen: 90.918 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 97 Resp: 338119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.8 | 51.6 | 77.4 |
| 61 | 43.6 | 35.6 | 53.4 |






#33
1,2-Dichloroethane-d4
Concen: 91.349 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 65 Resp: 23519

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.9 | 0.0 | 103.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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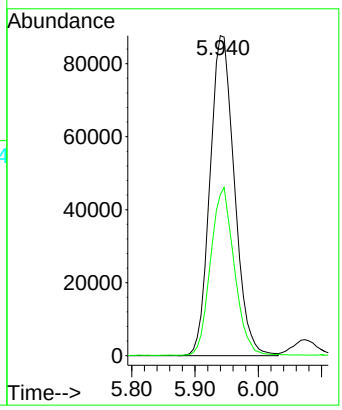
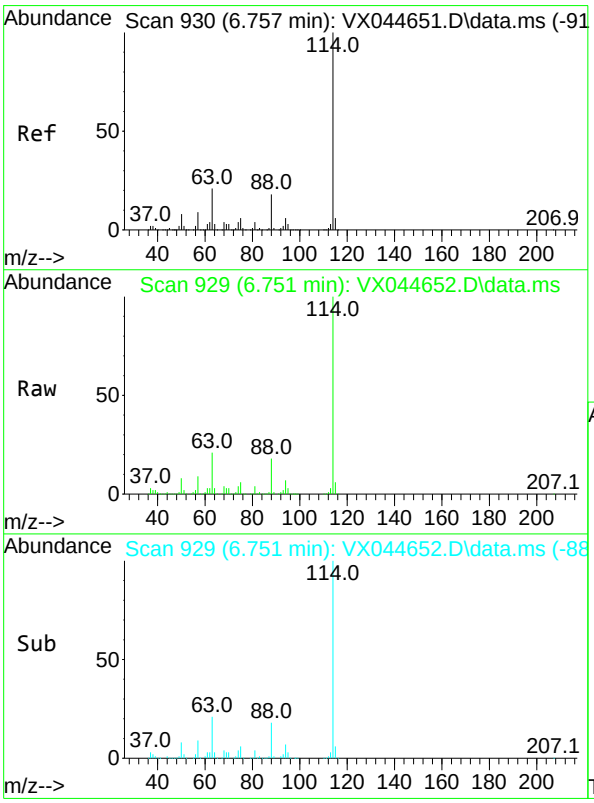
Supervised By :Semsettin Yesilyurt 01/16/2025

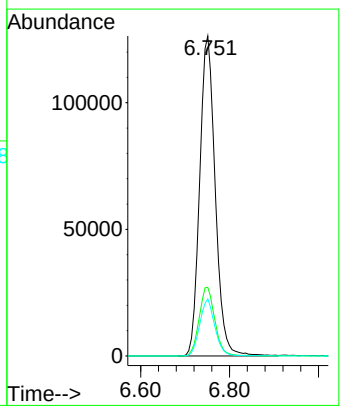


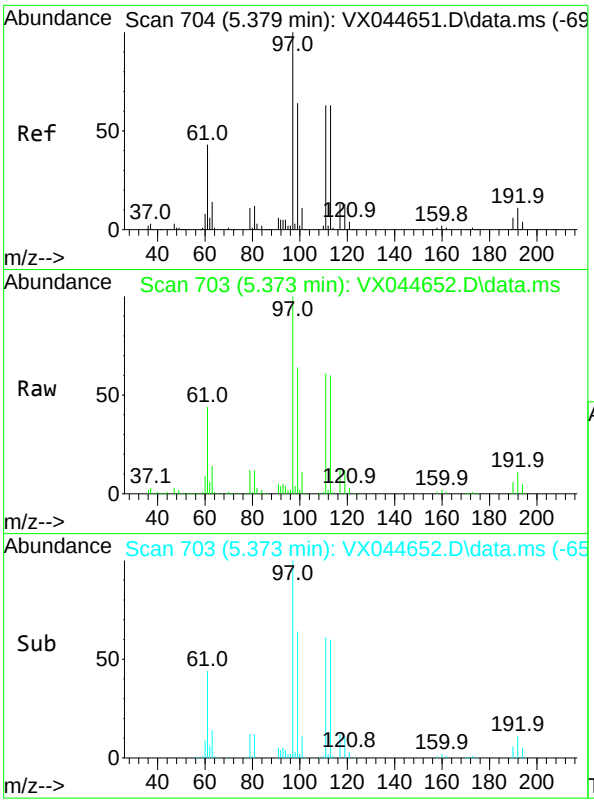




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:114 Resp: 308450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.4 | 0.0 | 43.0 |
| 88 | 17.8 | 0.0 | 35.4 |

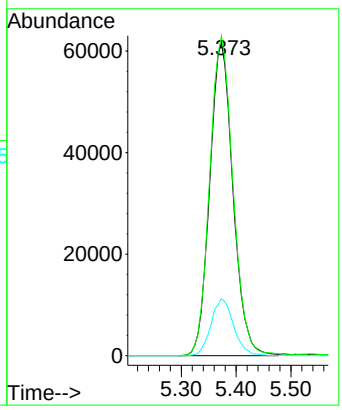





#35
Dibromofluoromethane
Concen: 92.374 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:113 Resp: 18101

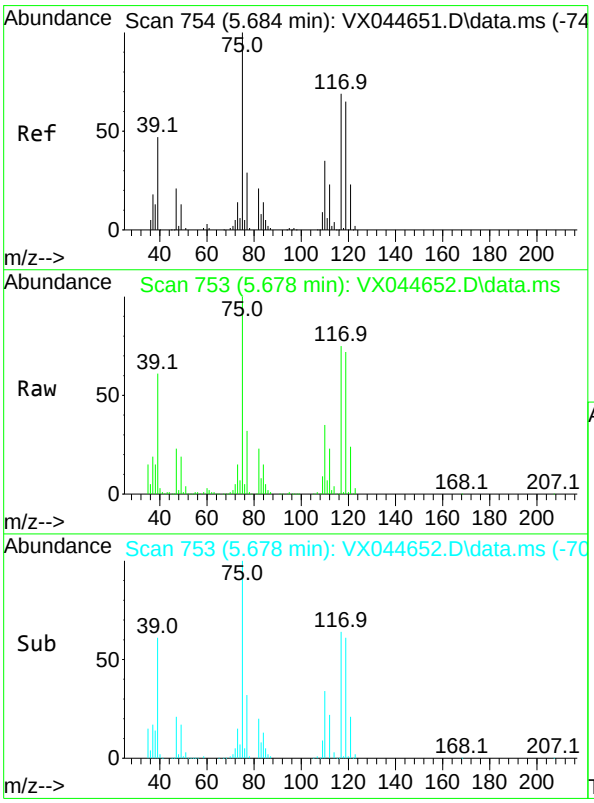
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 81.6 | 122.4 |
| 192 | 17.8 | 14.4 | 21.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

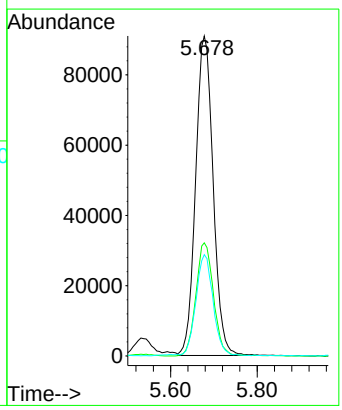
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

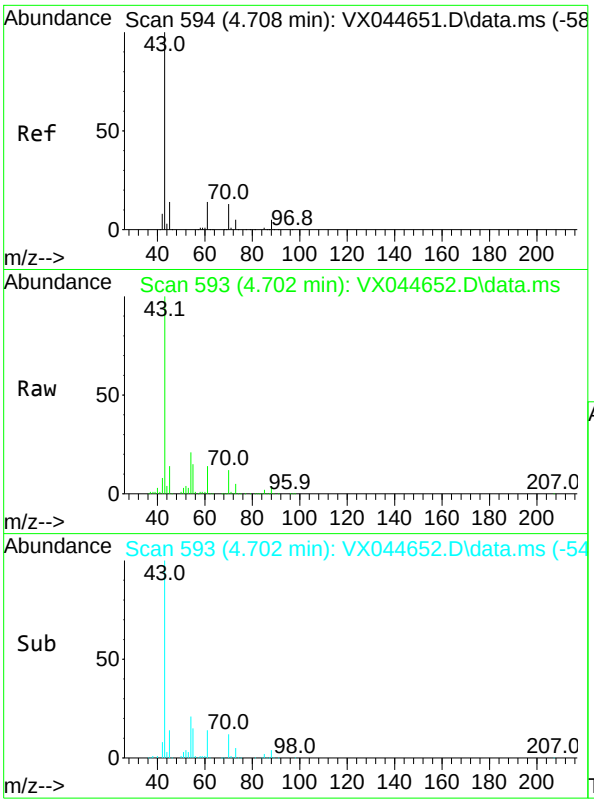



#36
1,1-Dichloropropene
Concen: 93.746 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 255714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.5 | 17.9 | 53.8 |
| 77 | 30.9 | 24.5 | 36.7 |

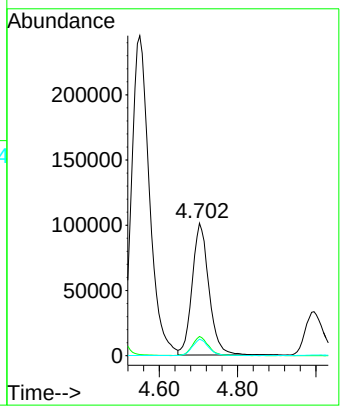





#37
Ethyl Acetate
Concen: 103.517 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 30070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.6 | 10.9 | 16.3 |
| 70 | 12.0 | 10.1 | 15.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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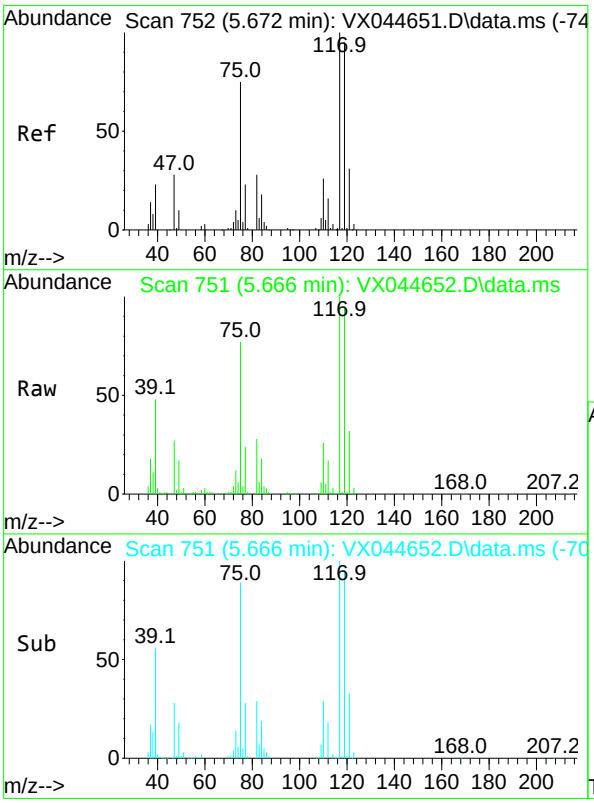
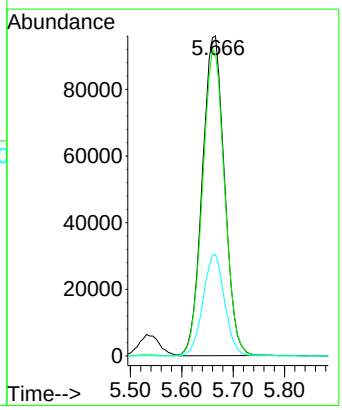
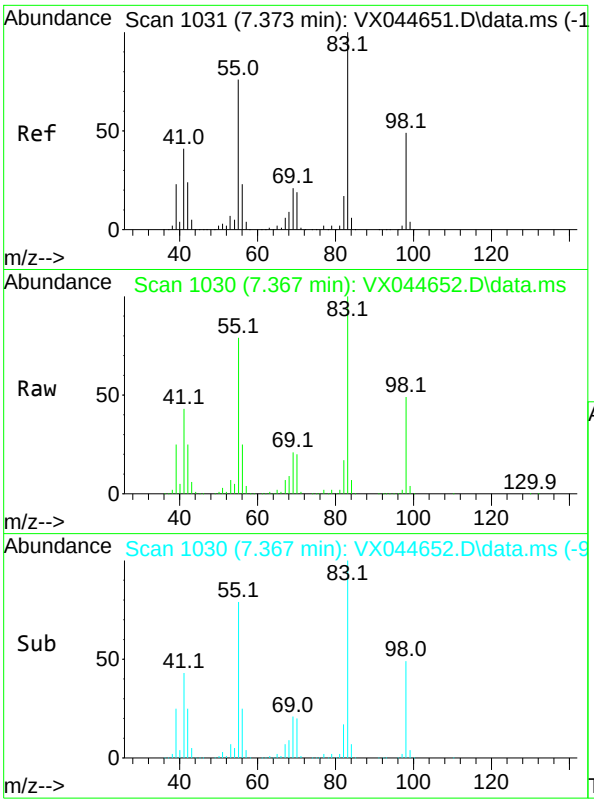



#38
Carbon Tetrachloride
Concen: 93.555 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:117 Resp: 287048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 76.0 | 114.0 |
| 121 | 31.7 | 24.6 | 36.8 |






#39
Methylcyclohexane
Concen: 99.352 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 83 Resp: 35975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 78.5 | 60.5 | 90.7 |
| 98 | 49.1 | 39.0 | 58.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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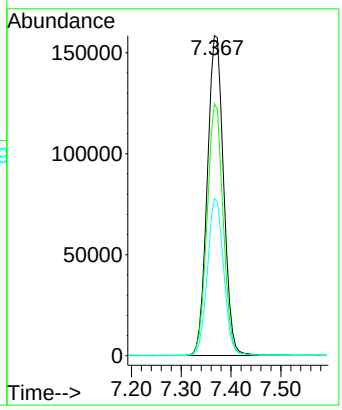
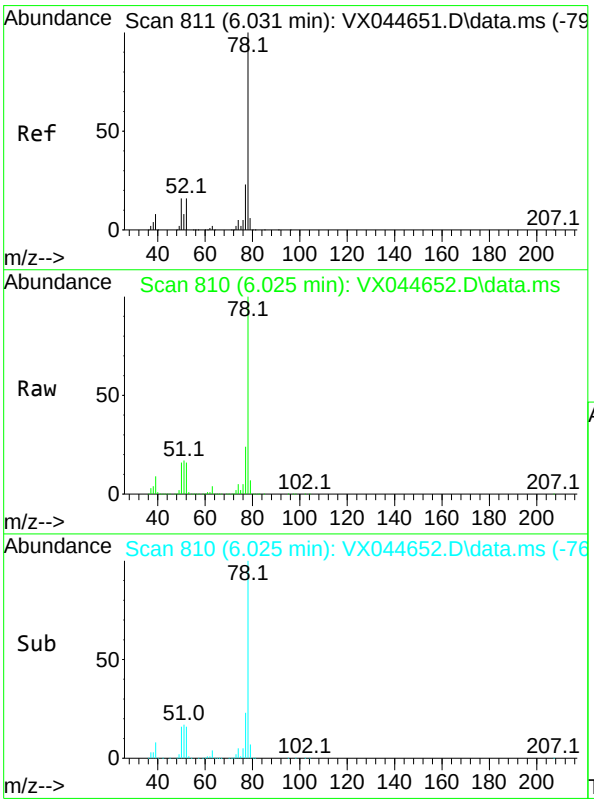
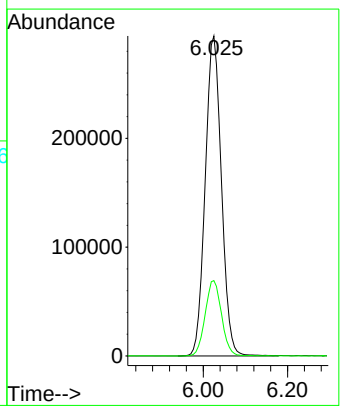


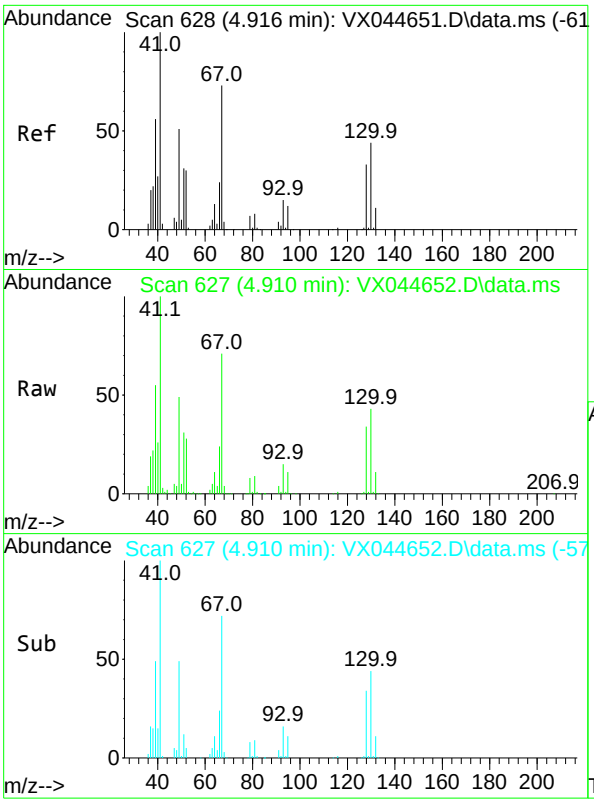




#40
Benzene
Concen: 92.946 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 78 Resp: 785626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.7 | 28.1 |

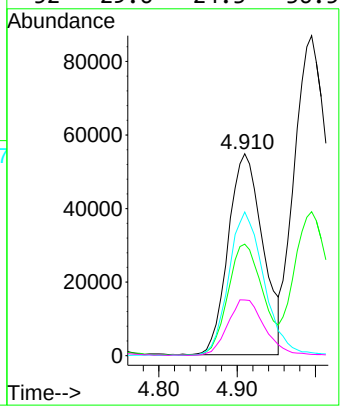





#41
Methacrylonitrile
Concen: 100.920 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 41 Resp: 16848

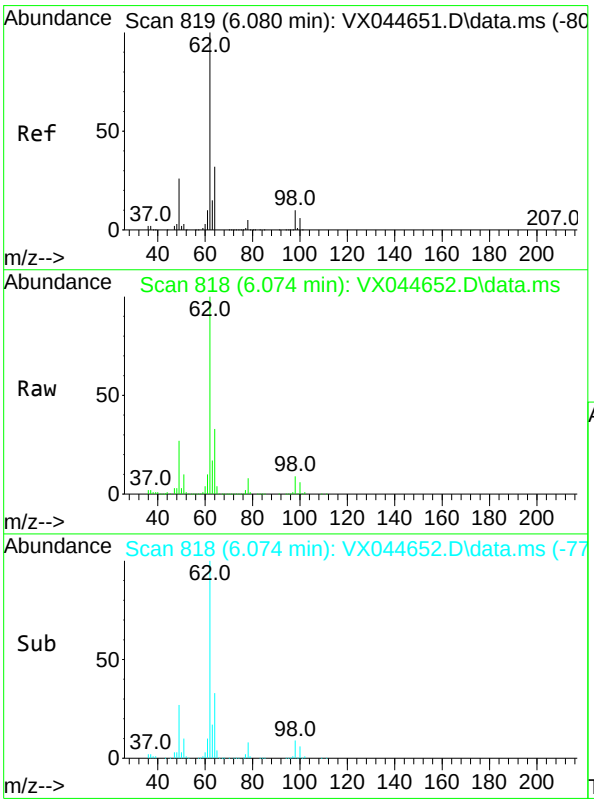
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.5 | 44.4 | 66.6 |
| 67 | 73.0 | 60.6 | 90.8 |
| 52 | 29.6 | 24.3 | 36.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

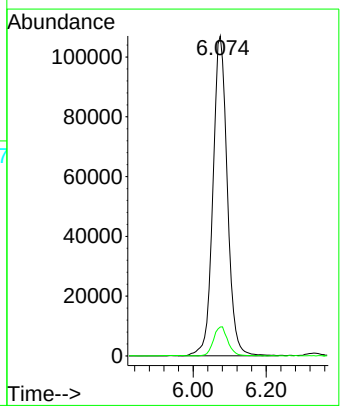
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

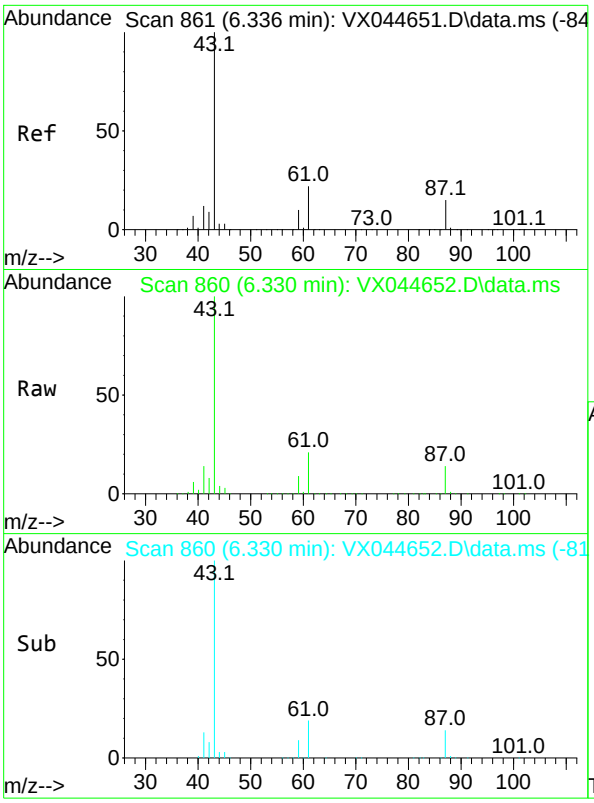



#42
1,2-Dichloroethane
Concen: 94.663 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 62 Resp: 292036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.2 | 0.0 | 19.4 |






#43
Isopropyl Acetate
Concen: 95.925 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 51259

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.1 | 16.6 | 24.8 |
| 87 | 14.0 | 11.0 | 16.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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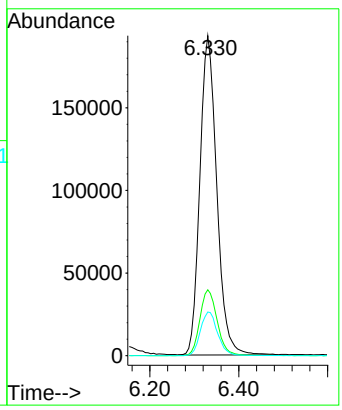
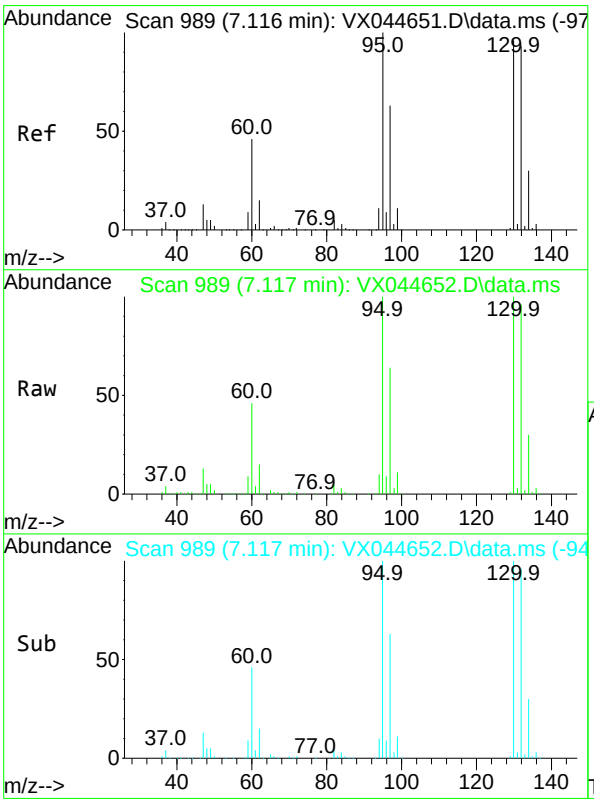
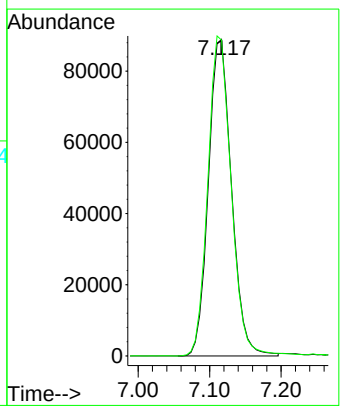


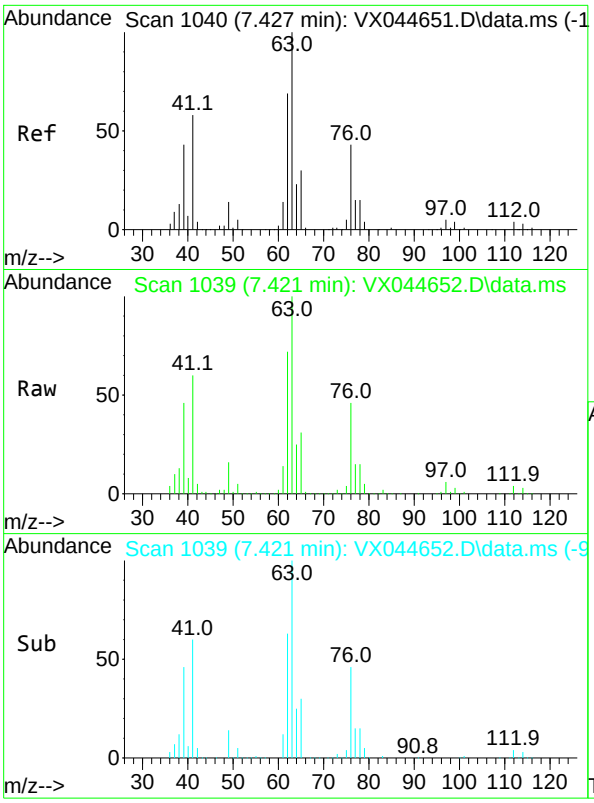




#44
Trichloroethene
Concen: 98.212 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:130 Resp: 199570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.7 | 0.0 | 208.2 |

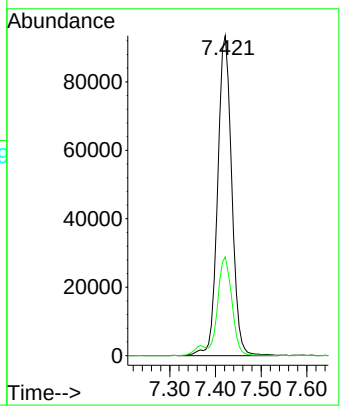





#45
1,2-Dichloropropane
Concen: 94.413 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 63 Resp: 20087

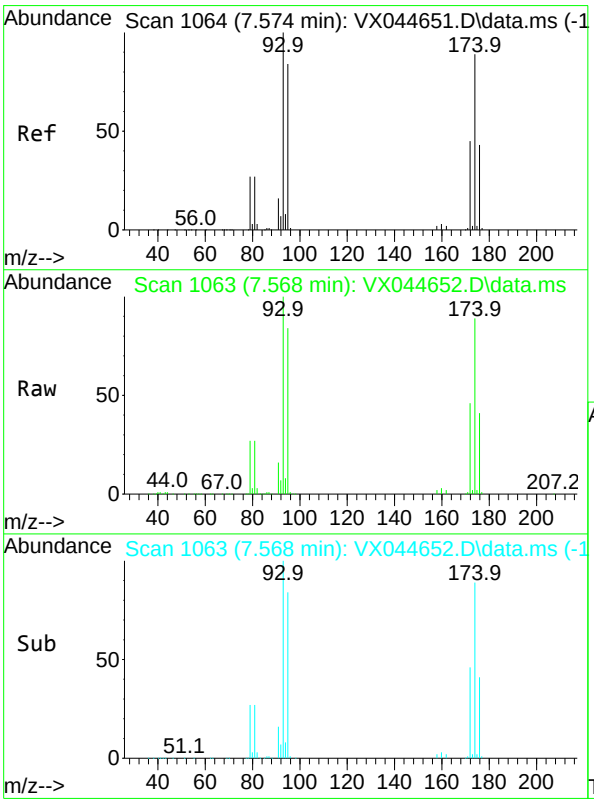
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.9 | 24.2 | 36.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

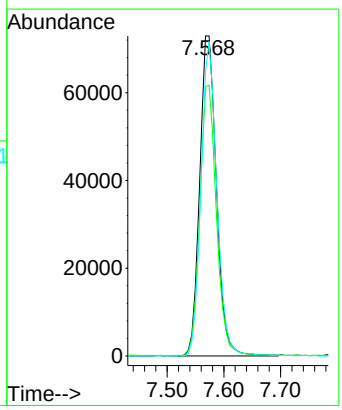
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

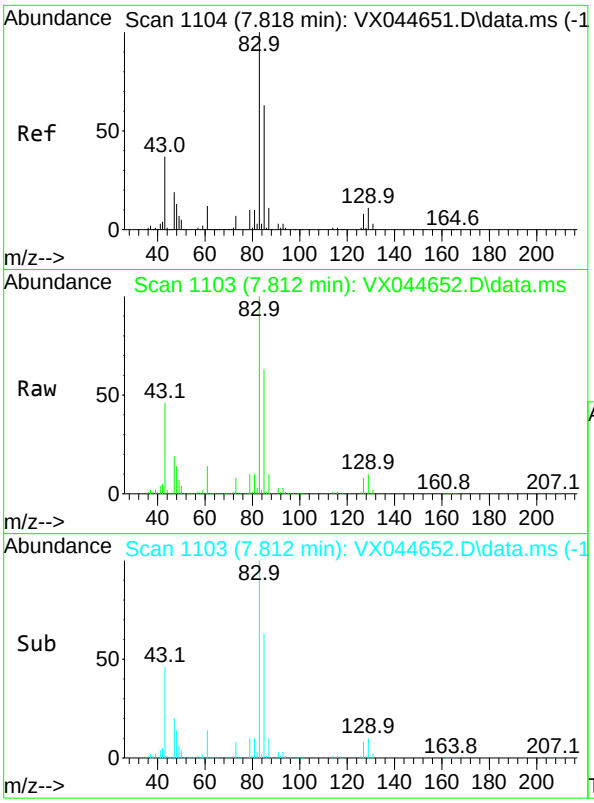



#46
Dibromomethane
Concen: 92.680 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 93 Resp: 150112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.5 | 66.4 | 99.6 |
| 174 | 92.9 | 72.0 | 108.0 |

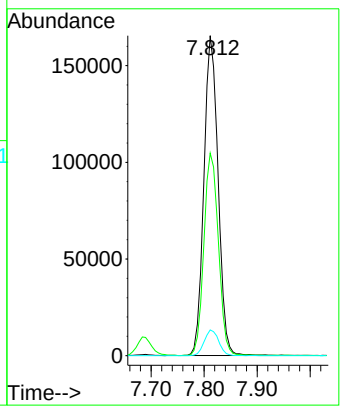





#47
Bromodichloromethane
Concen: 92.723 ug/l
RT: 7.812 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 83 Resp: 30799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 50.1 | 75.1 |
| 127 | 8.0 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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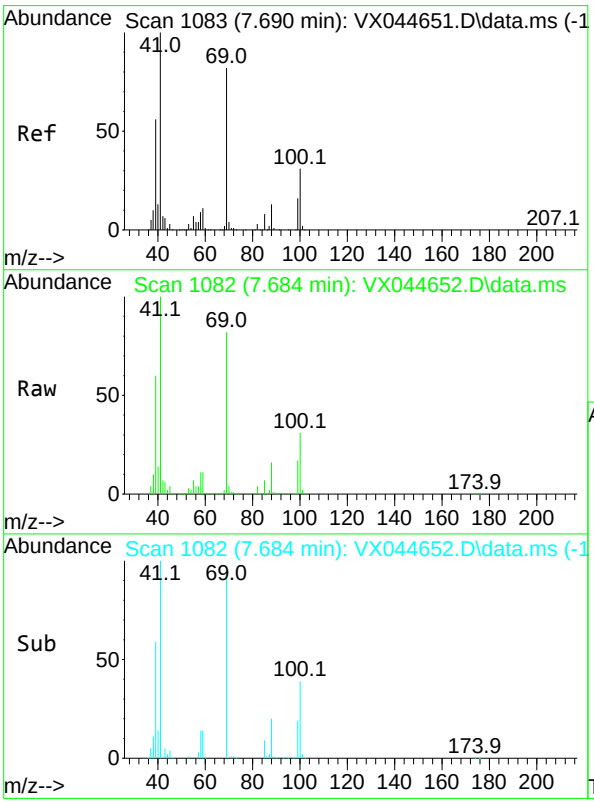
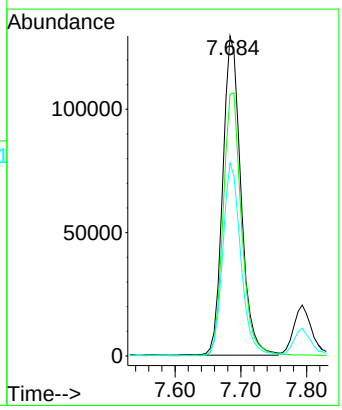
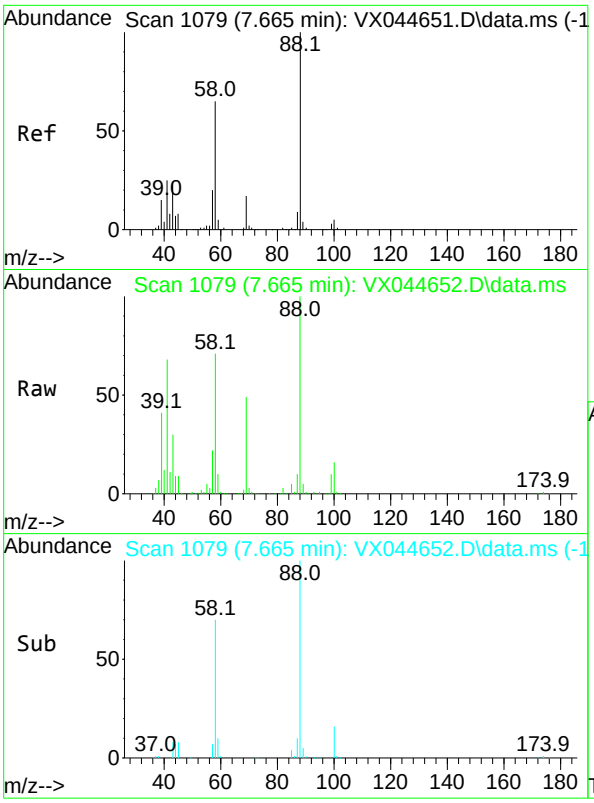



#48
Methyl methacrylate
Concen: 100.250 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 41 Resp: 248667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.6 | 66.8 | 100.2 |
| 39 | 59.8 | 47.4 | 71.0 |






#49
1,4-Dioxane
Concen: 1959.056 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 88 Resp: 10138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.1 | 27.0 | 40.4 |
| 58 | 71.0 | 55.8 | 83.8 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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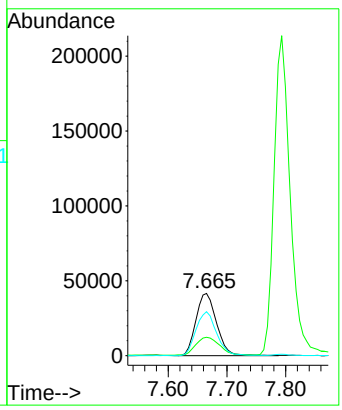
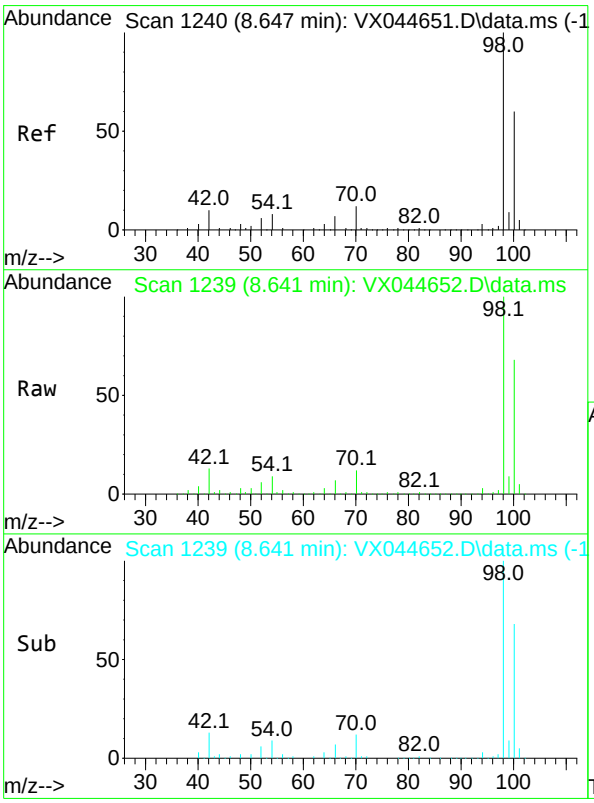
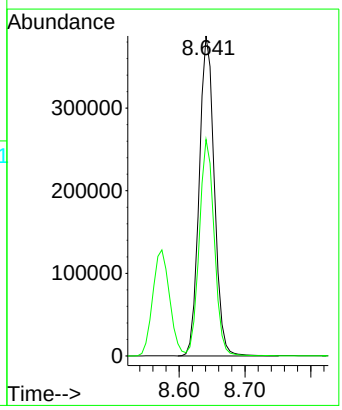


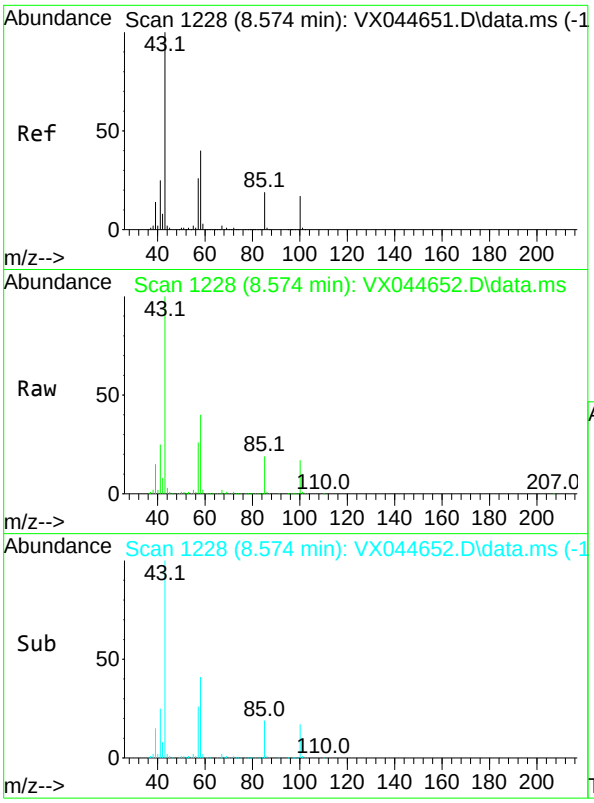




#50
Toluene-d8
Concen: 90.404 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 98 Resp: 617688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.8 | 53.2 | 79.8 |

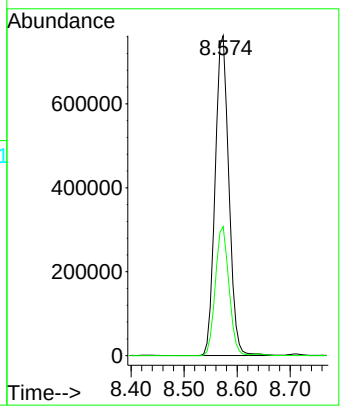





#51
4-Methyl-2-Pentanone
Concen: 464.897 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 137288

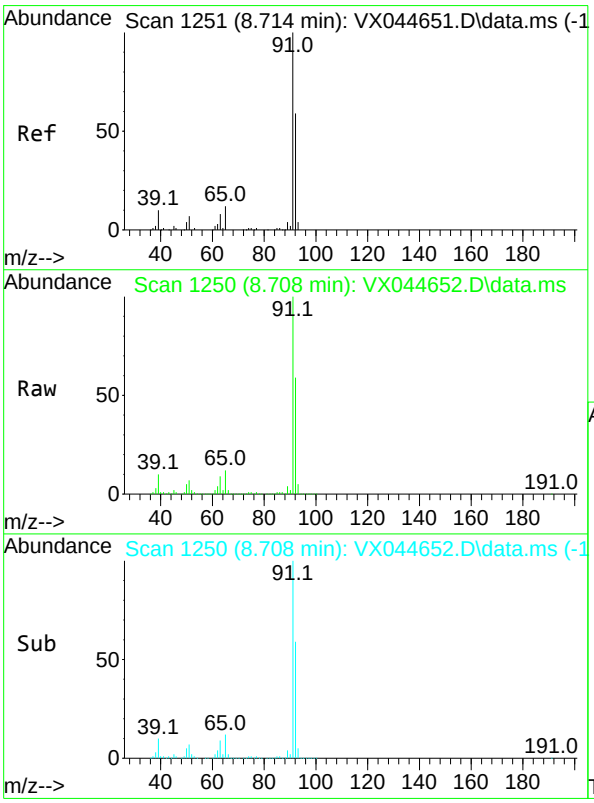
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.0 | 31.9 | 47.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

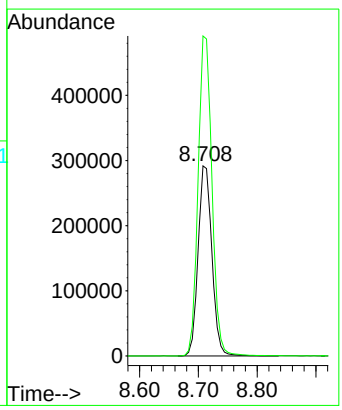
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

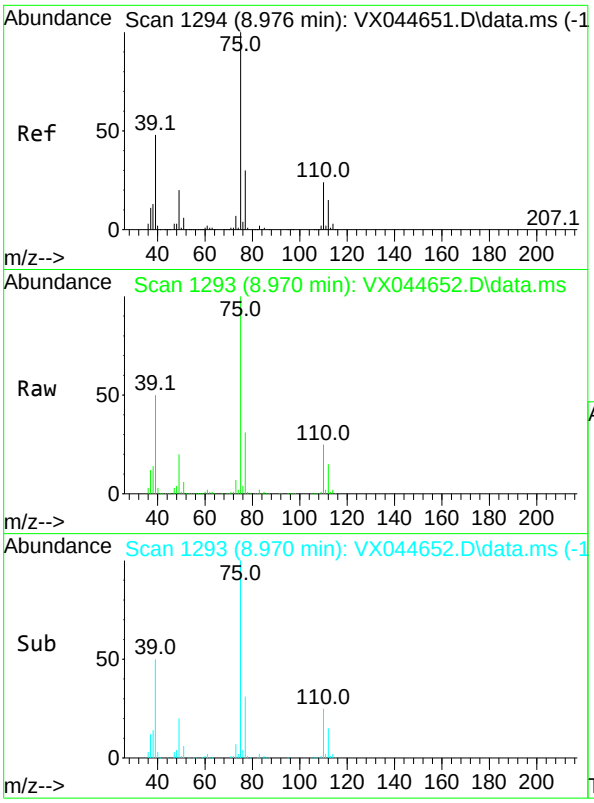



#52
Toluene
Concen: 91.697 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 92 Resp: 474392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.3 | 135.7 | 203.5 |






#53
t-1,3-Dichloropropene
Concen: 96.446 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 33098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 24.4 | 36.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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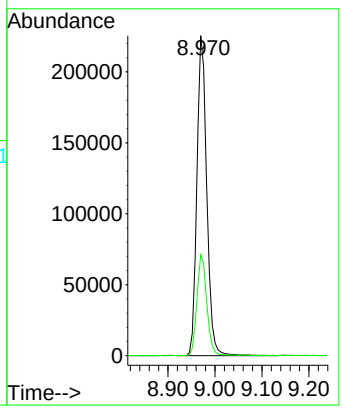
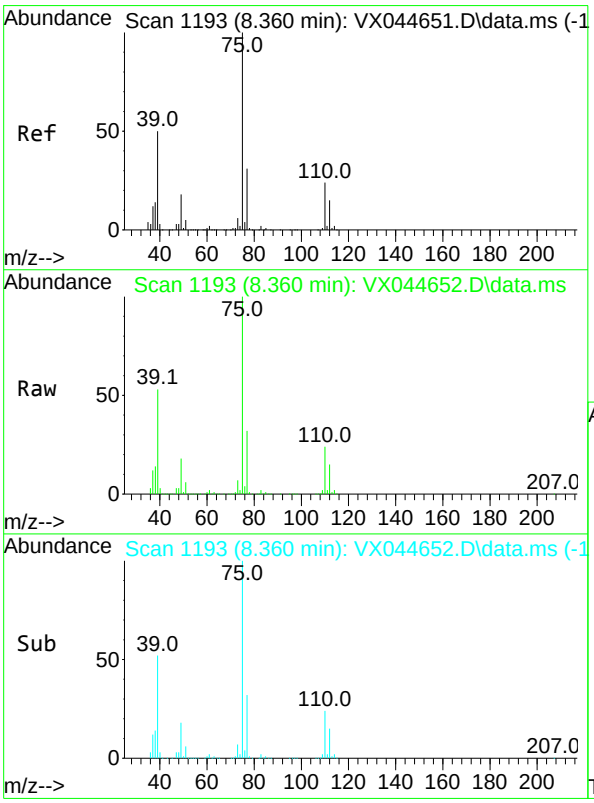
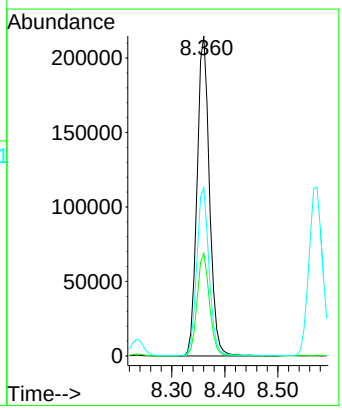


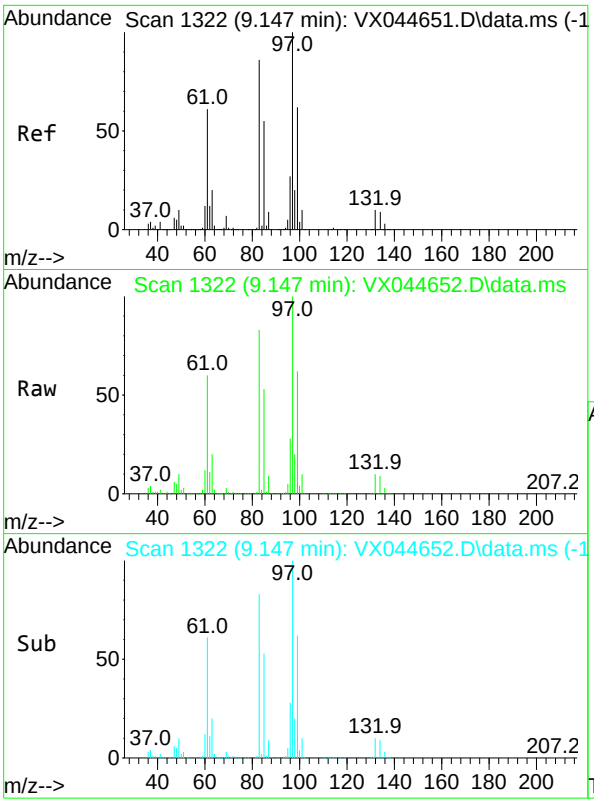




#54
cis-1,3-Dichloropropene
Concen: 93.927 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 349516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.1 | 37.7 |
| 39 | 52.5 | 40.3 | 60.5 |

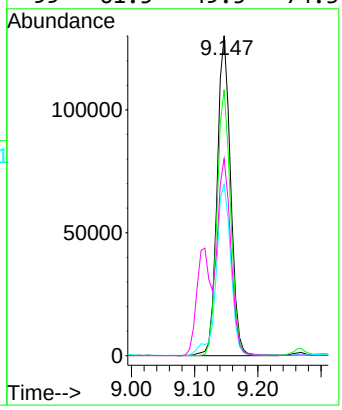





#55
1,1,2-Trichloroethane
Concen: 91.885 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 97 Resp: 19232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.1 | 68.8 | 103.2 |
| 85 | 53.4 | 43.7 | 65.5 |
| 99 | 61.5 | 49.5 | 74.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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Reviewed By :John Carlone 01/15/2025
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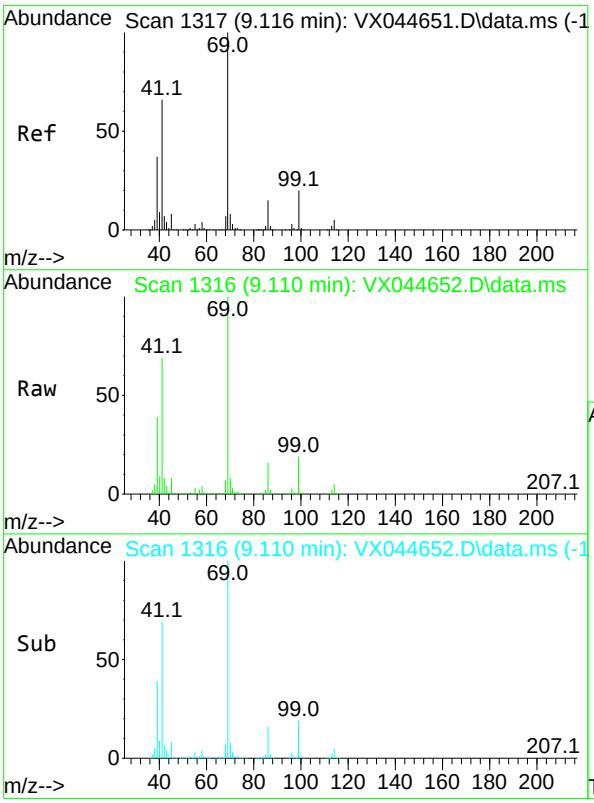
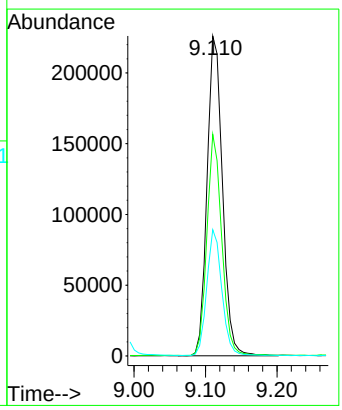
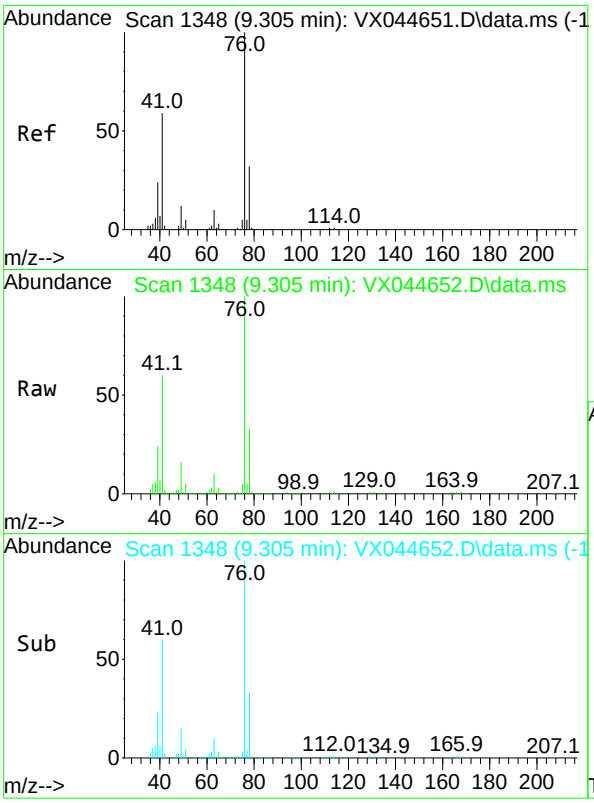



#56
Ethyl methacrylate
Concen: 93.812 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 69 Resp: 337626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.7 | 53.2 | 79.8 |
| 39 | 38.4 | 30.2 | 45.2 |

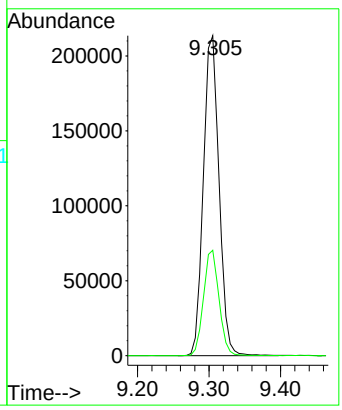





#57
1,3-Dichloropropane
Concen: 91.220 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 76 Resp: 32514

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 26.0 | 39.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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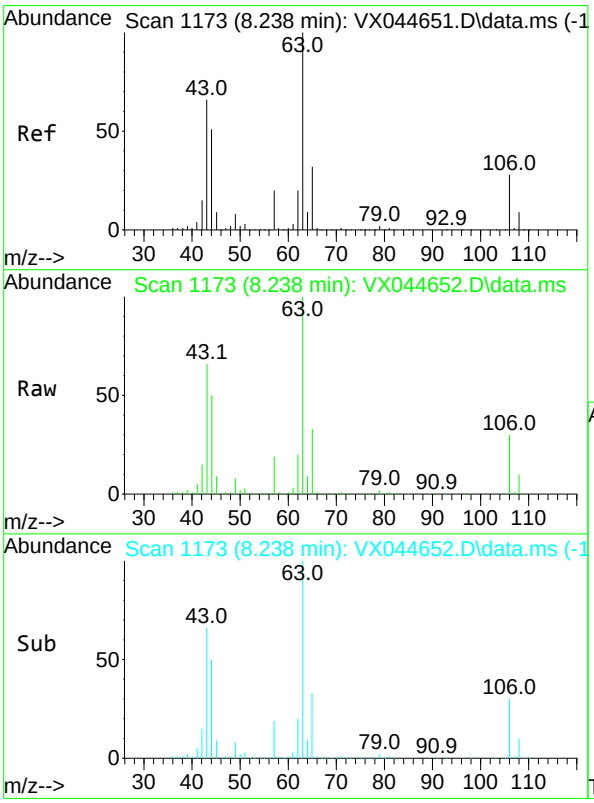
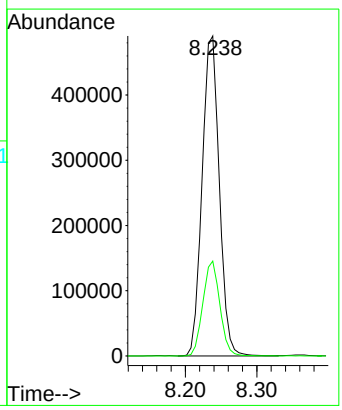
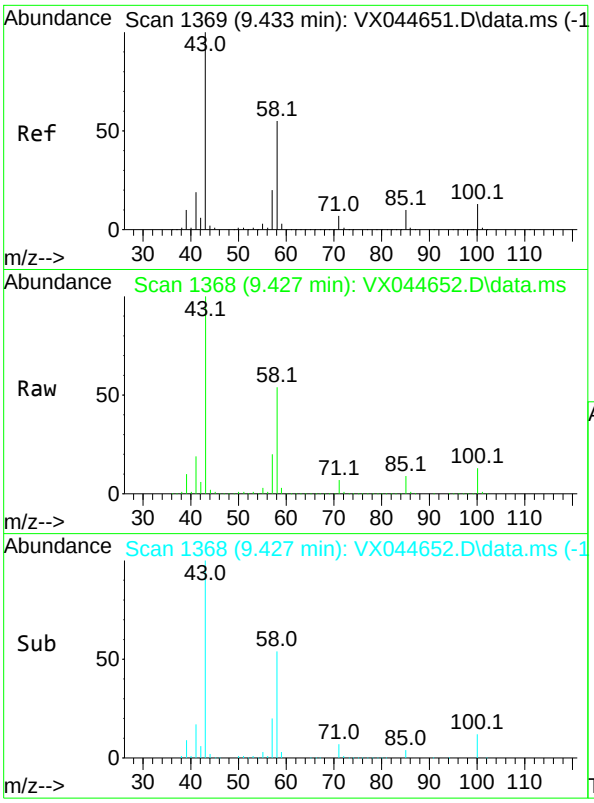



#58
2-Chloroethyl Vinyl ether
Concen: 462.693 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 63 Resp: 817528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.3 | 23.0 | 34.6 |






#59
2-Hexanone
Concen: 469.454 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 101994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.0 | 27.8 | 83.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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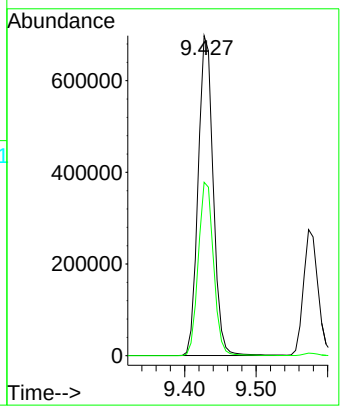
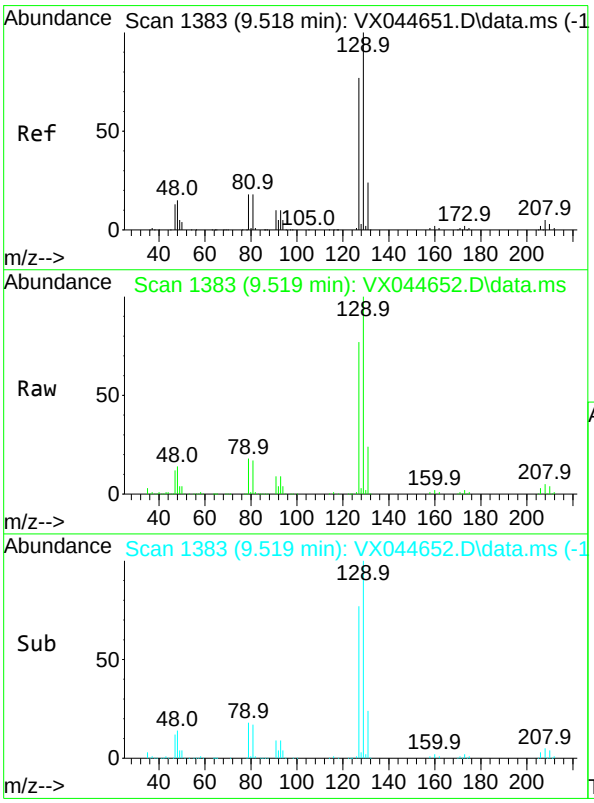
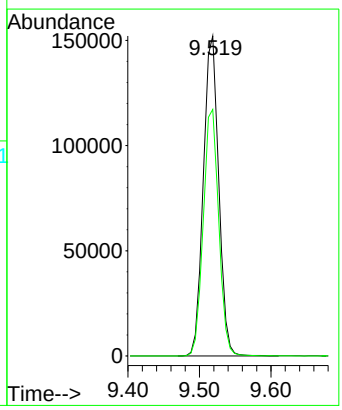


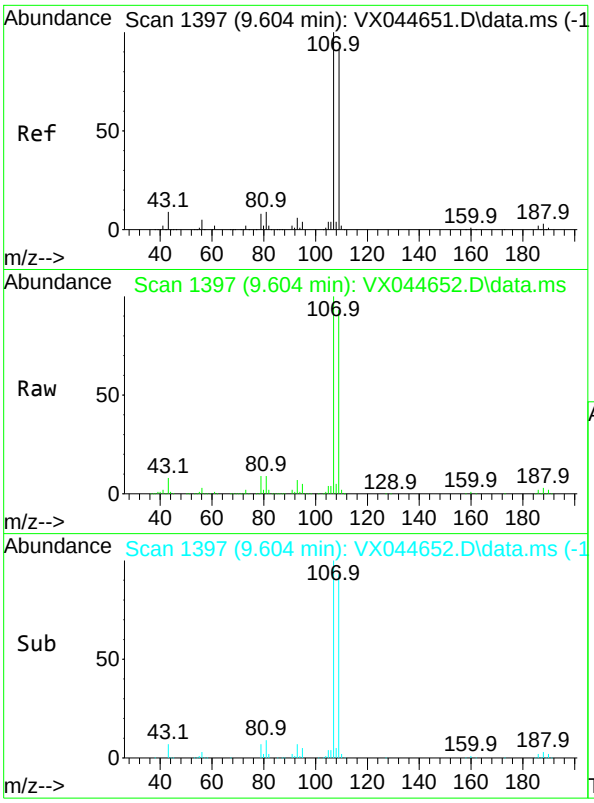




#60
Dibromochloromethane
Concen: 92.570 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:129 Resp: 227418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |

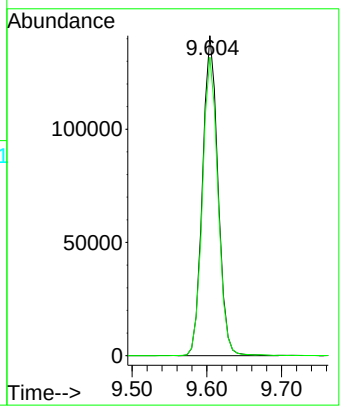





#61
1,2-Dibromoethane
Concen: 92.200 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:107 Resp: 20224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.7 | 75.3 | 112.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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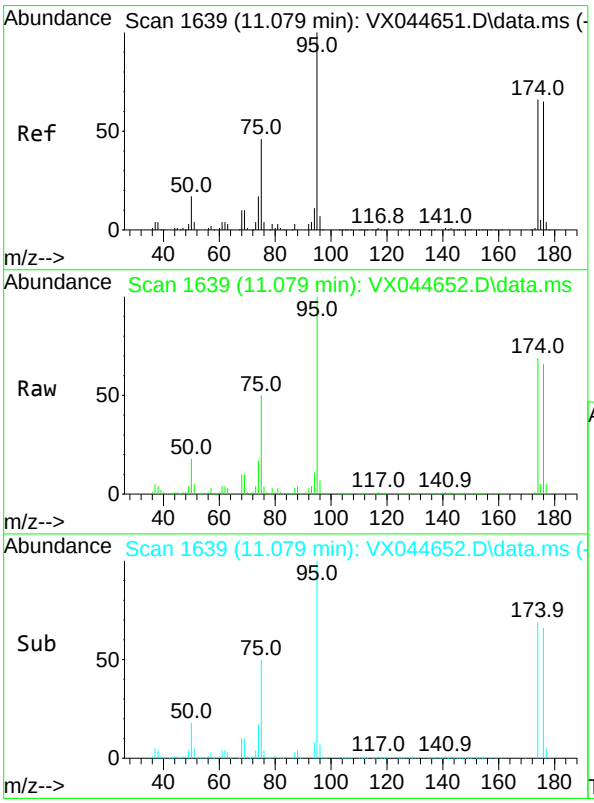
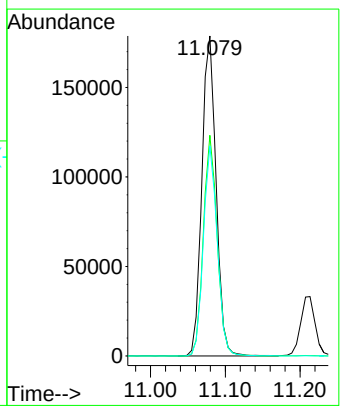
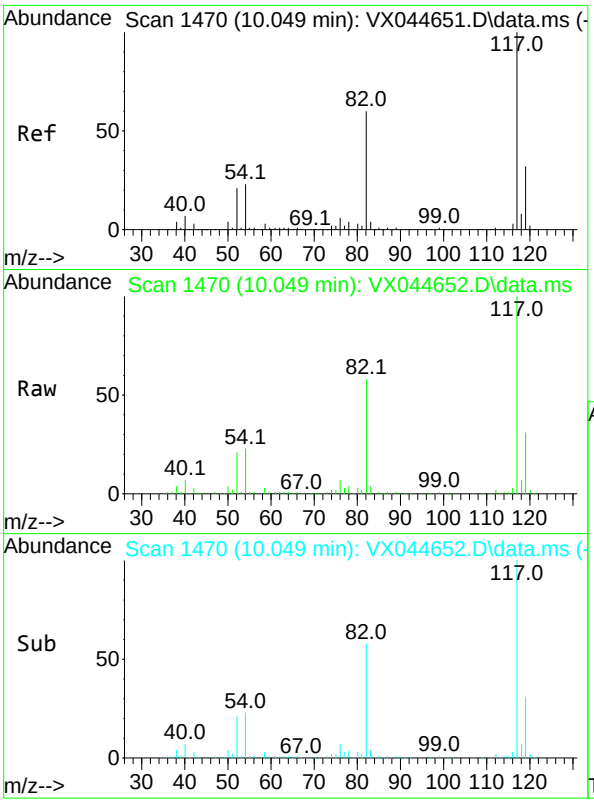



#62
4-Bromofluorobenzene
Concen: 92.702 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 95 Resp: 236119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.9 | 0.0 | 133.0 |
| 176 | 64.0 | 0.0 | 129.4 |






#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:117 Resp: 25588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.3 | 47.6 | 71.4 |
| 119 | 31.3 | 25.4 | 38.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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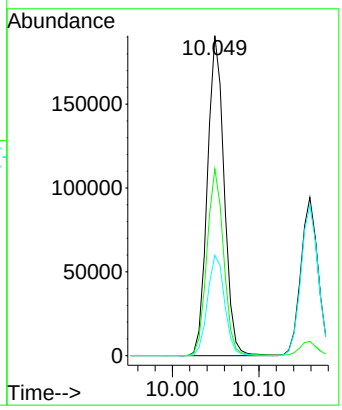
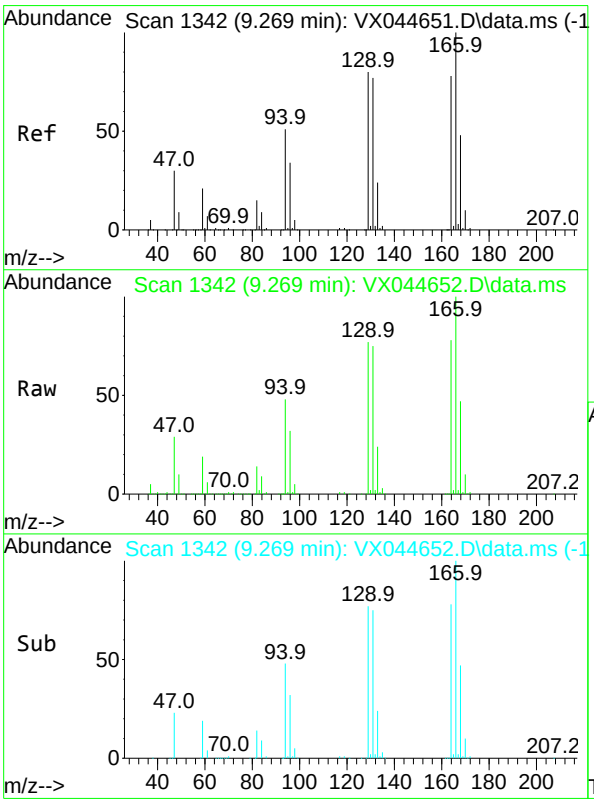
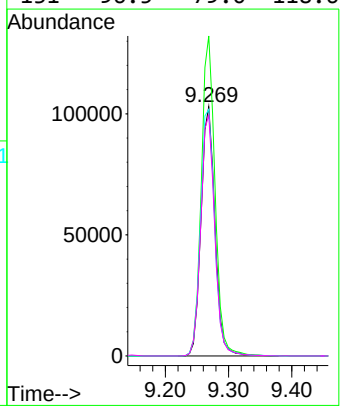


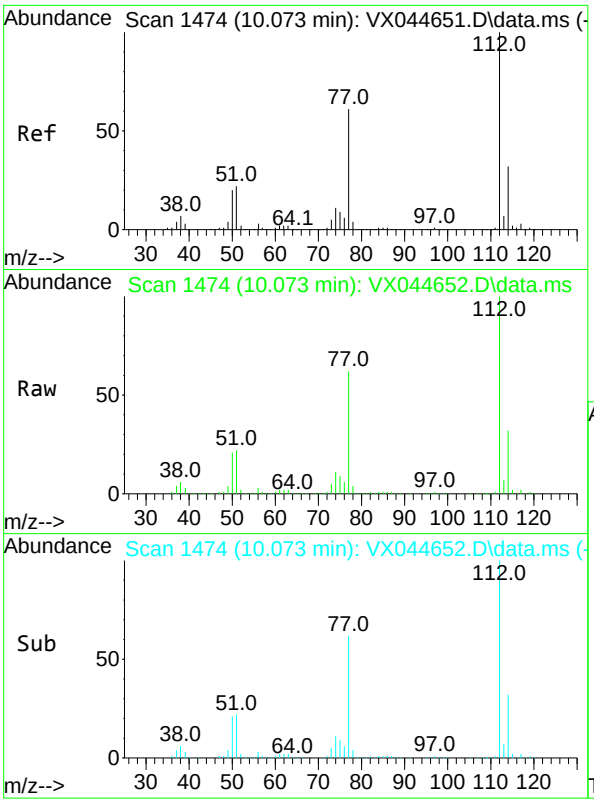




#64
Tetrachloroethene
Concen: 98.176 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:164 Resp: 157748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.4 | 102.0 | 153.0 |
| 129 | 98.9 | 81.1 | 121.7 |
| 131 | 96.5 | 79.0 | 118.6 |

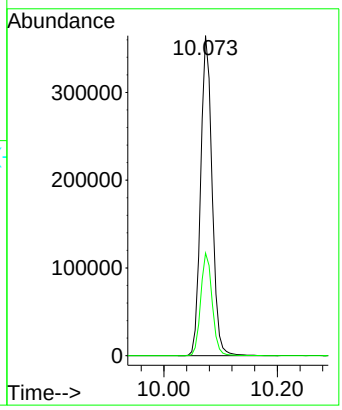





#65
Chlorobenzene
Concen: 94.003 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:112 Resp: 51091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.0 | 25.3 | 37.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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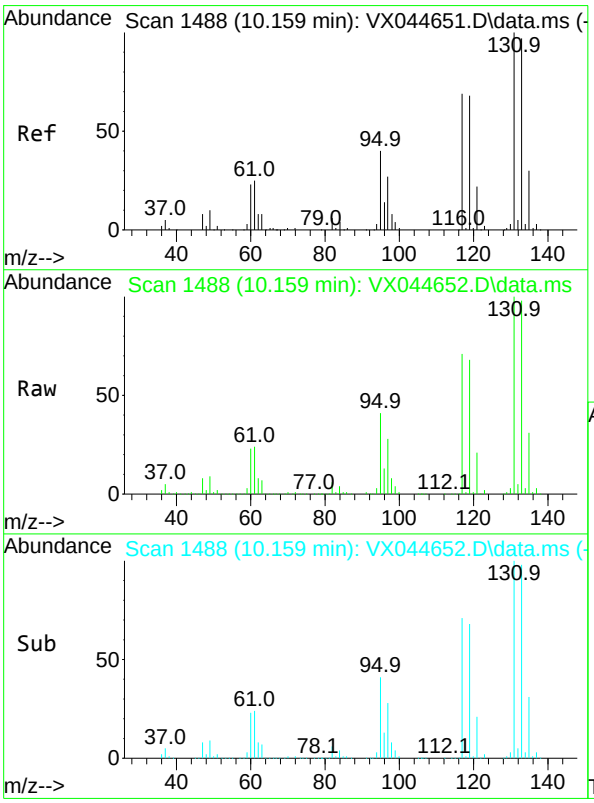
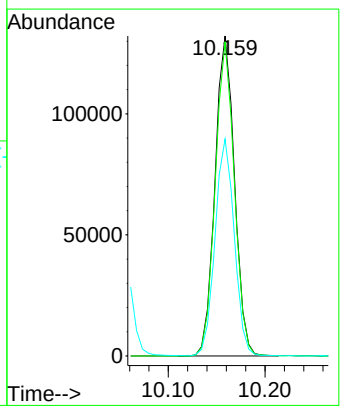
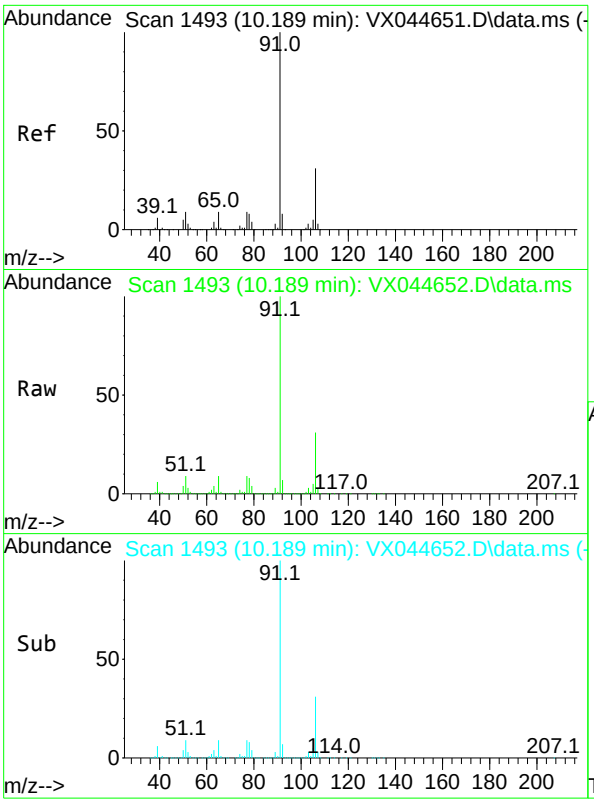



#66
1,1,1,2-Tetrachloroethane
Concen: 93.565 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:131 Resp: 184816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.0 | 47.8 | 143.3 |
| 119 | 67.1 | 33.4 | 100.2 |

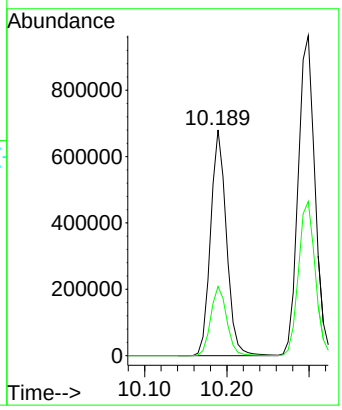





#67
Ethyl Benzene
Concen: 95.872 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 91 Resp: 90920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.7 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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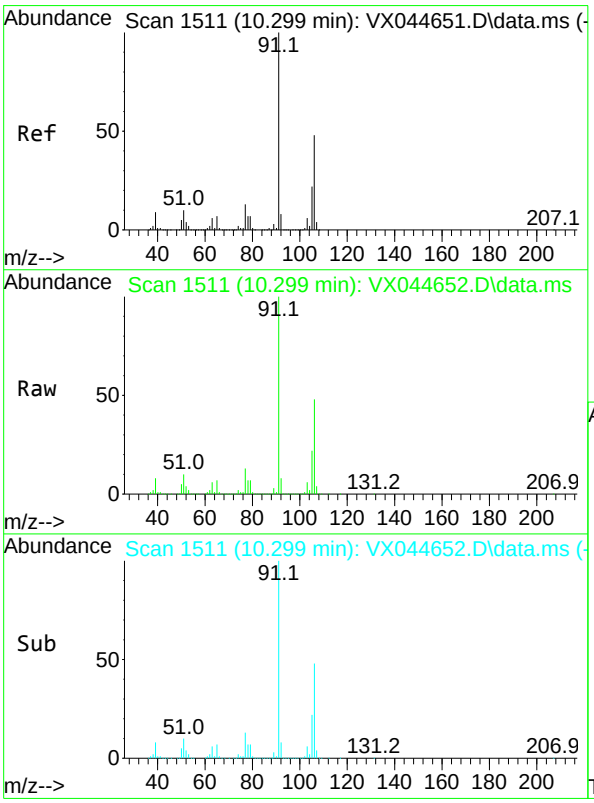
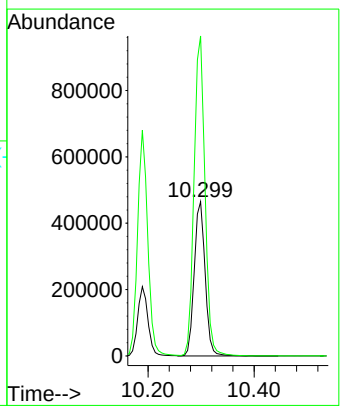
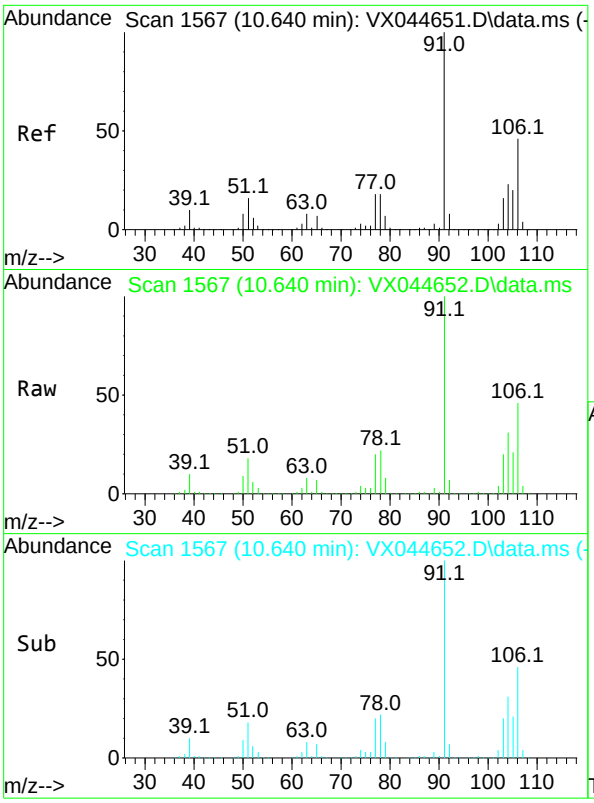



#68
m/p-Xylenes
Concen: 187.963 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:106 Resp: 661488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.9 | 166.4 | 249.6 |






#69
o-Xylene
Concen: 92.536 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

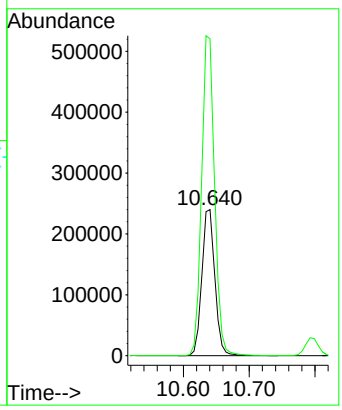
Tgt Ion:106 Resp: 32933

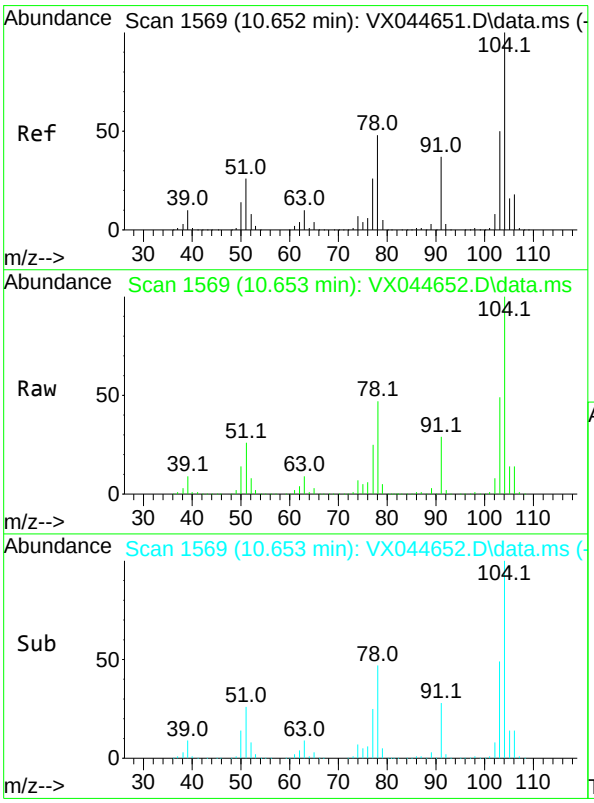
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.7 | 108.7 | 326.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

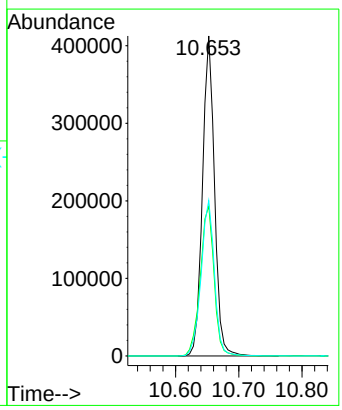


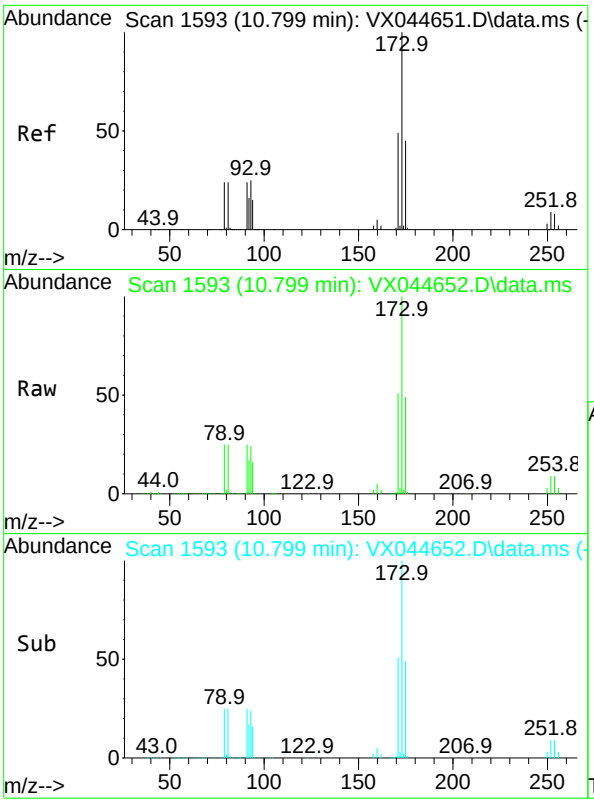




#70
Styrene
Concen: 95.197 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:104 Resp: 547016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.9 | 43.0 | 64.6 |
| 103 | 54.1 | 43.4 | 65.2 |

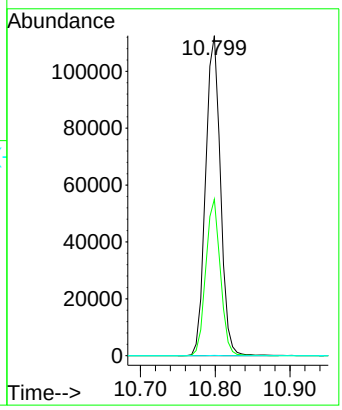





#71
Bromoform
Concen: 96.648 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:173 Resp: 15537

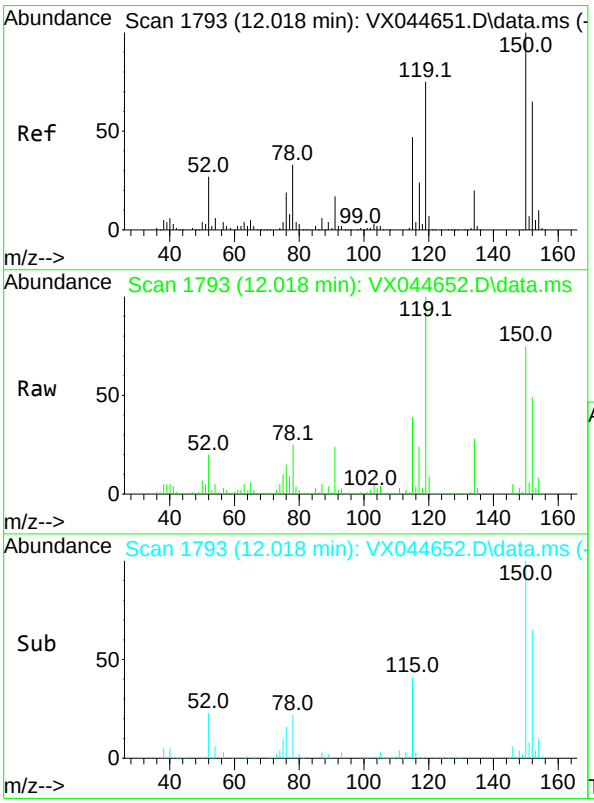
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

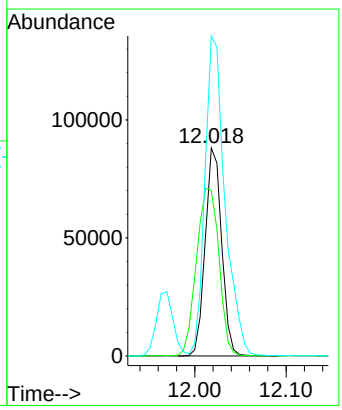
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

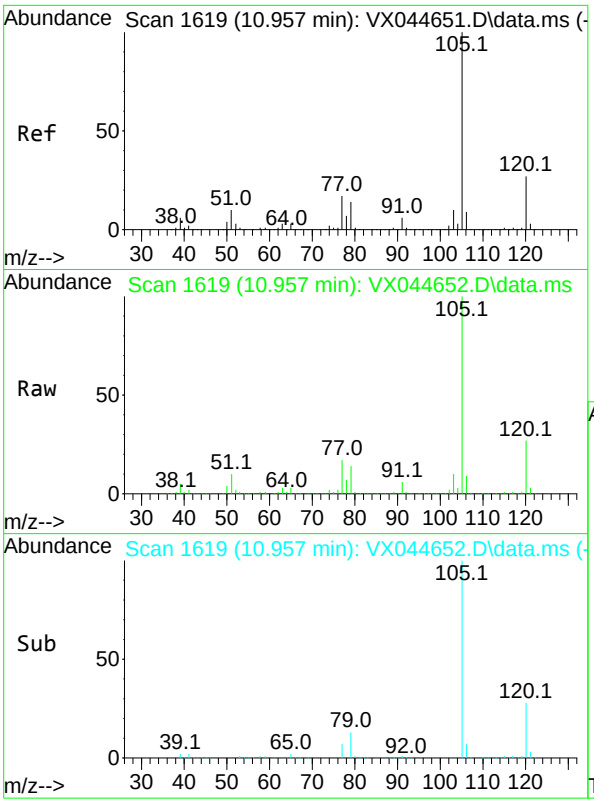



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:152 Resp: 110019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 110.6 | 43.8 | 131.4 |
| 150 | 186.5 | 0.0 | 347.8 |






#73
Isopropylbenzene
Concen: 92.779 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:105 Resp: 83387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.2 | 39.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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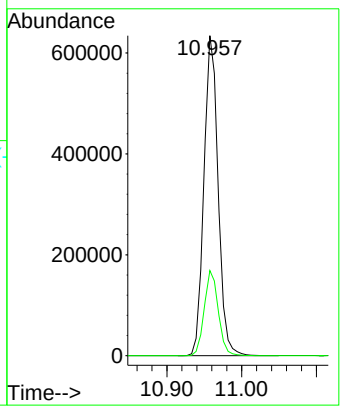
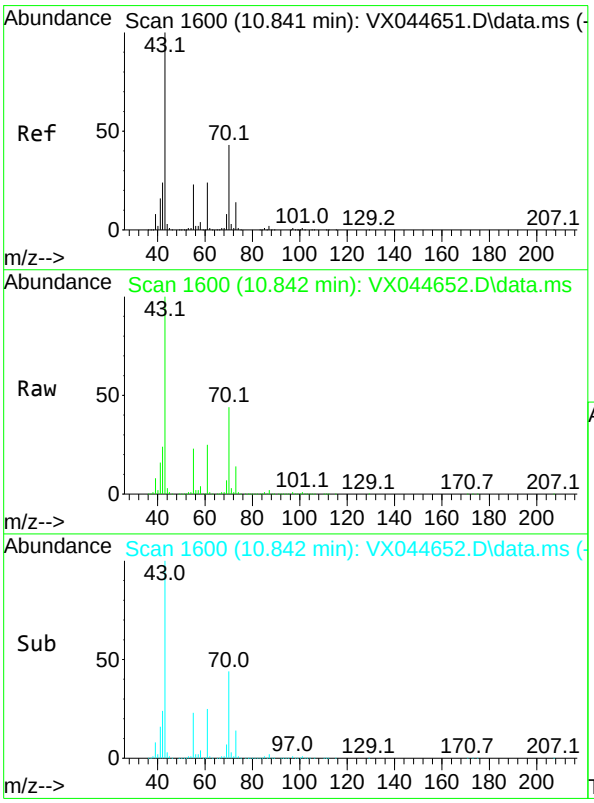
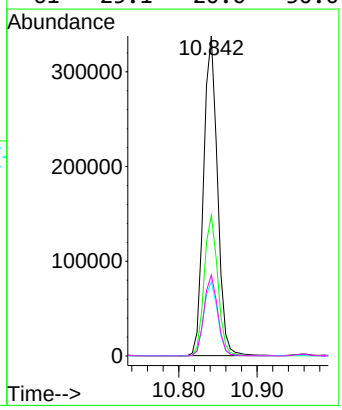


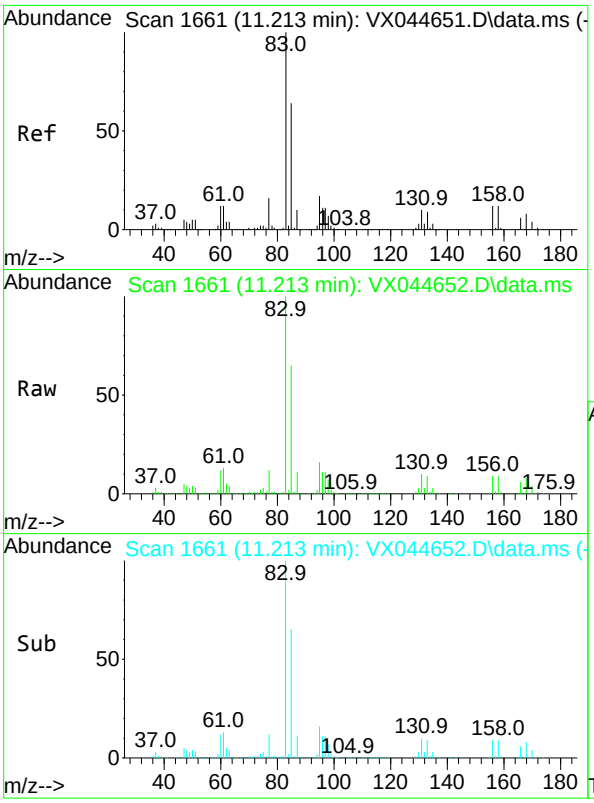




#74
N-amyl acetate
Concen: 93.463 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 414046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.5 | 35.2 | 52.8 |
| 55 | 23.3 | 19.0 | 28.4 |
| 61 | 25.1 | 20.0 | 30.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 89.776 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 83 Resp: 27867

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.0 | 14.9 |
| 85 | 64.5 | 32.0 | 96.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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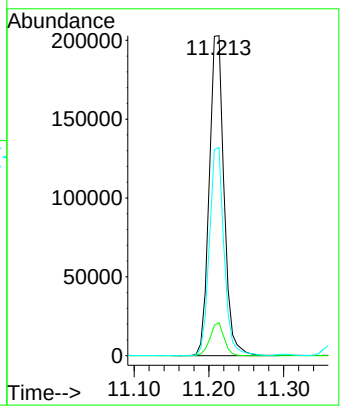
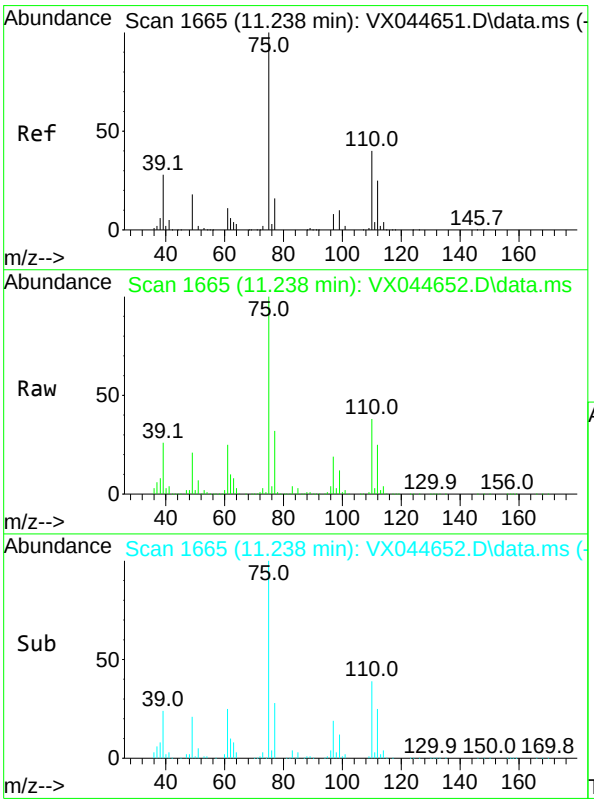
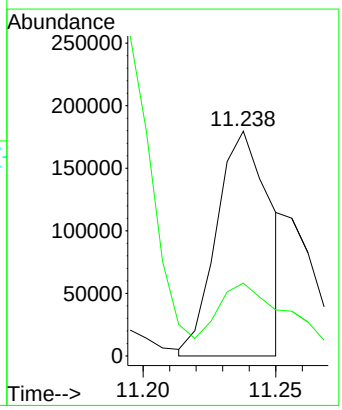


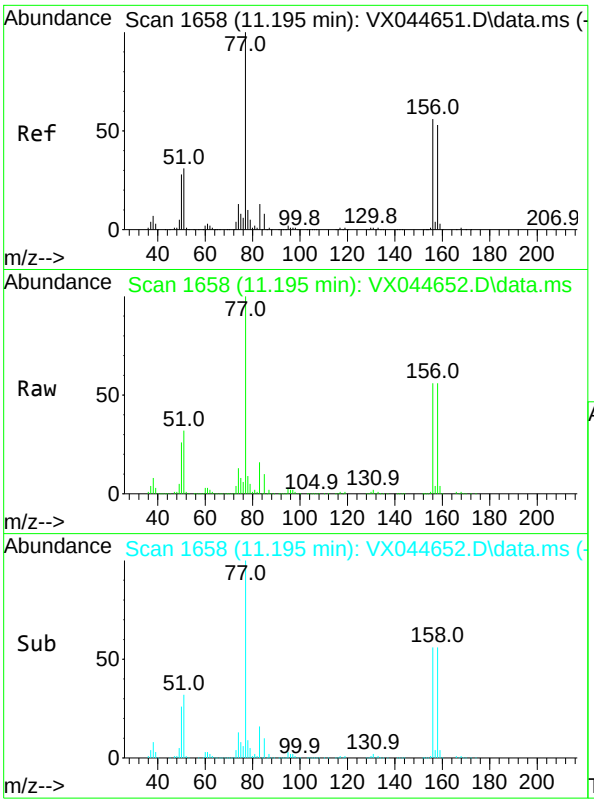




#76
1,2,3-Trichloropropane
Concen: 96.568 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 250918

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 43.9 | 23.4 | 70.2 |

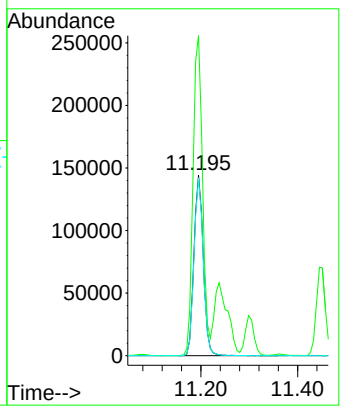





#77
Bromobenzene
Concen: 91.729 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:156 Resp: 19270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 181.5 | 90.3 | 271.0 |
| 158 | 97.9 | 48.4 | 145.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

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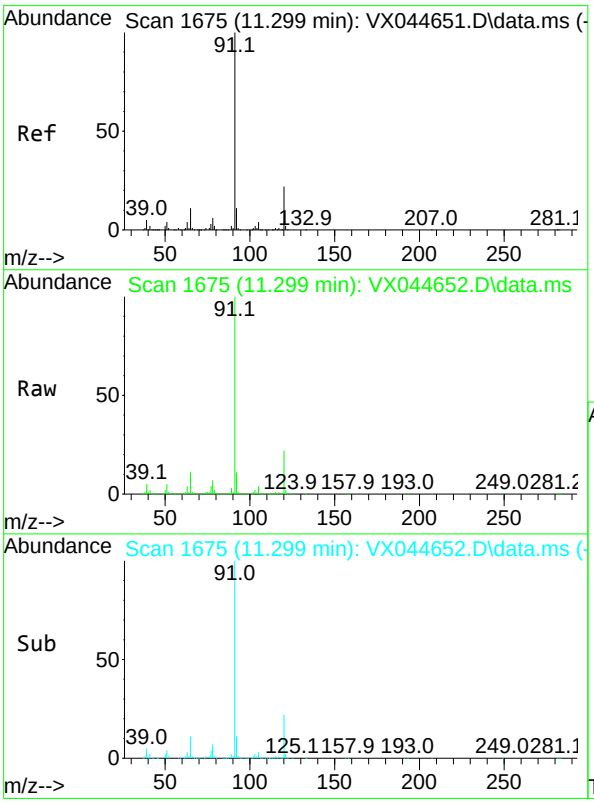
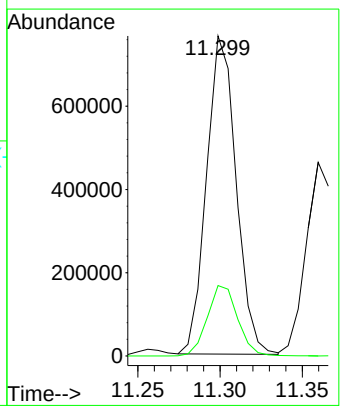
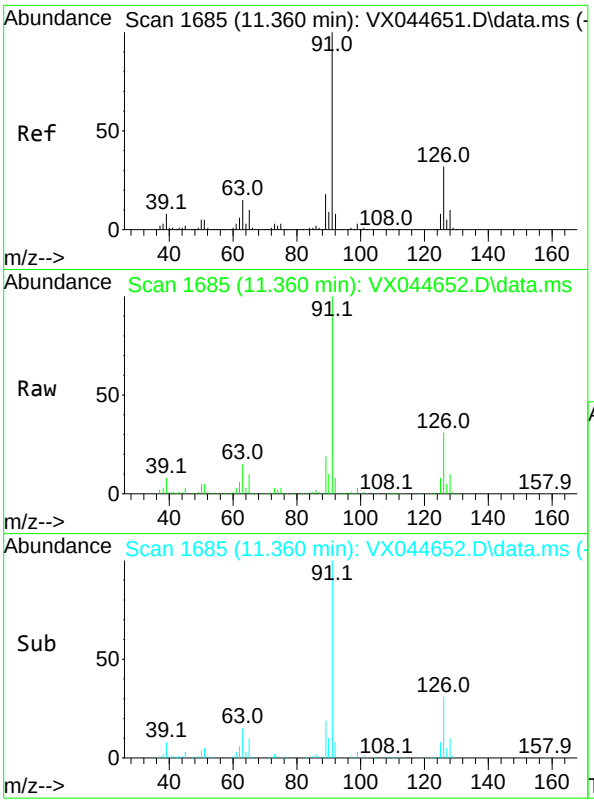



#78
n-propylbenzene
Concen: 96.470 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 91 Resp: 956202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.4 | 34.1 |

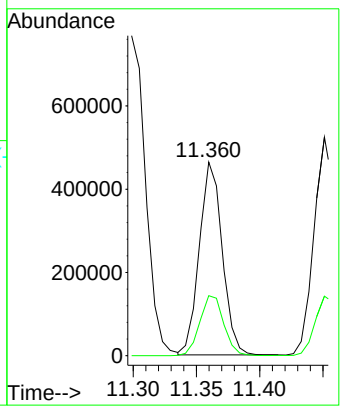





#79
2-Chlorotoluene
Concen: 91.317 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 91 Resp: 58468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.6 | 16.2 | 48.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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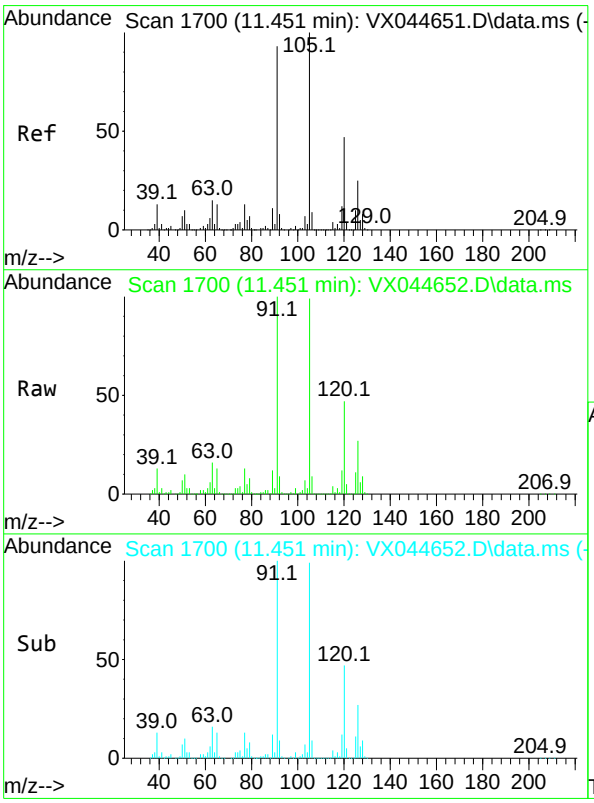
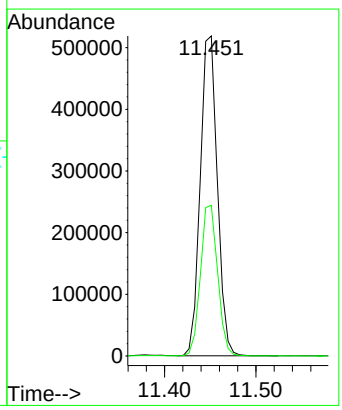
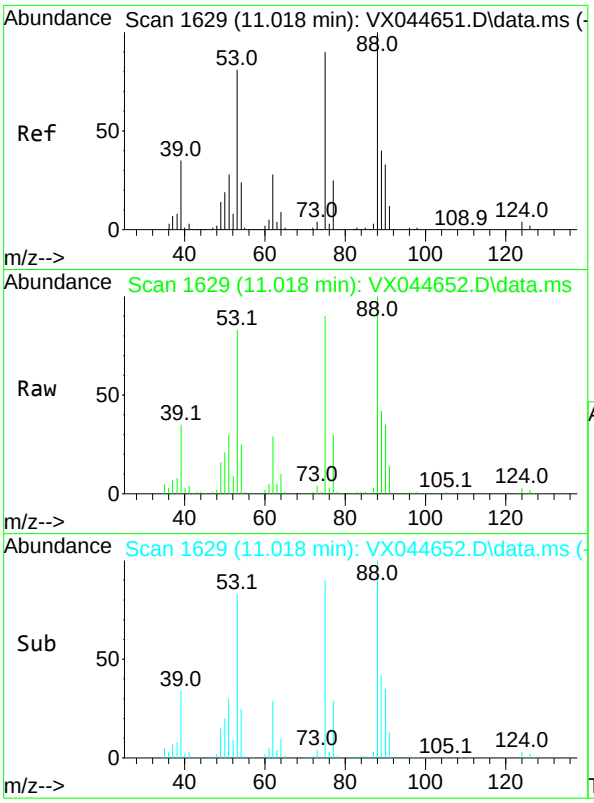



#80
1,3,5-Trimethylbenzene
Concen: 91.926 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:105 Resp: 672586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.2 | 23.7 | 71.1 |






#81
trans-1,4-Dichloro-2-butene
Concen: 98.354 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 11483

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.6 | 74.3 | 111.5 |
| 89 | 47.4 | 37.4 | 56.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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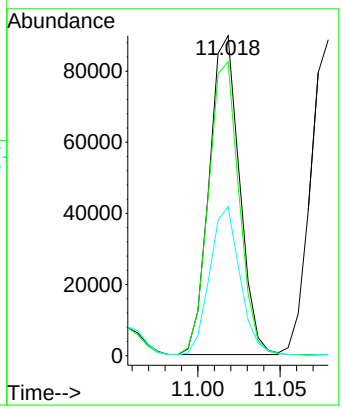
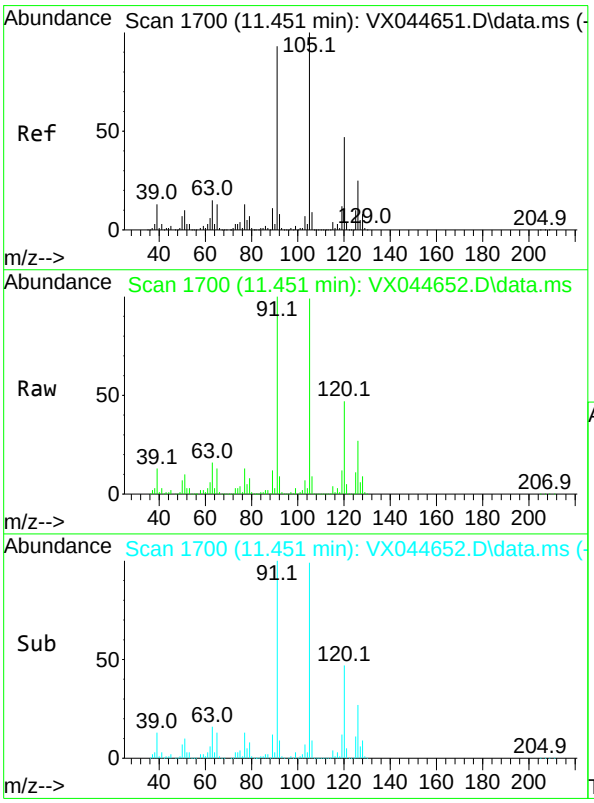
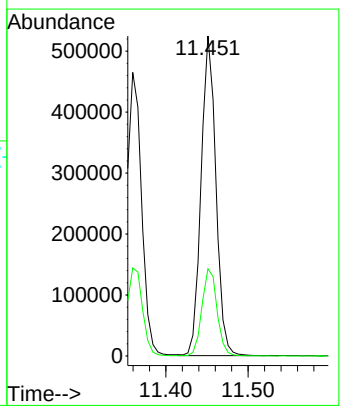


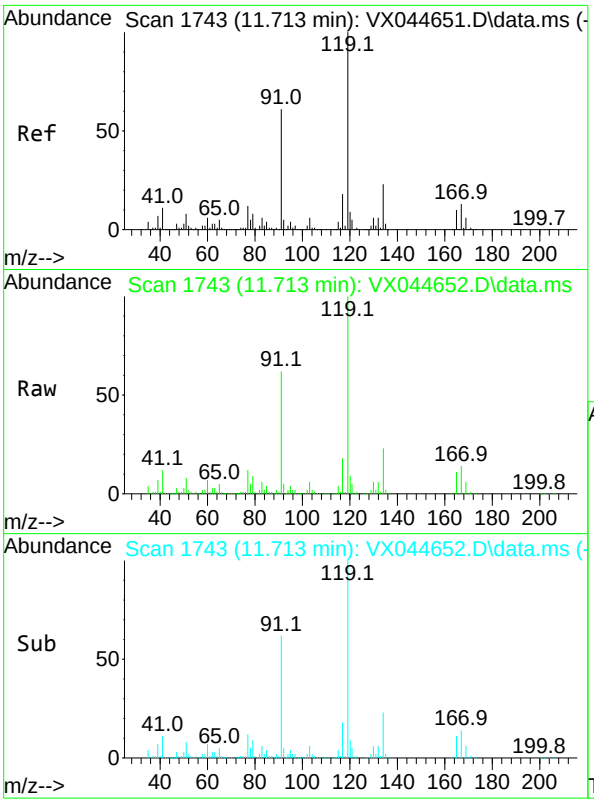




#82
4-Chlorotoluene
Concen: 93.421 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 91 Resp: 655250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.9 | 13.9 | 41.7 |

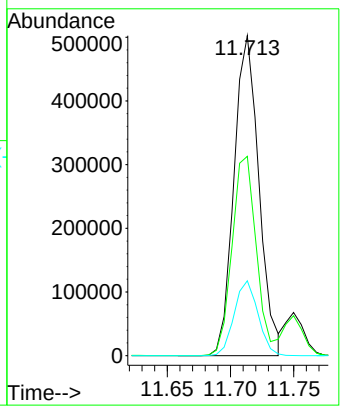





#83
tert-Butylbenzene
Concen: 90.233 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:119 Resp: 69032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 59.9 | 30.0 | 90.0 |
| 134 | 22.4 | 11.2 | 33.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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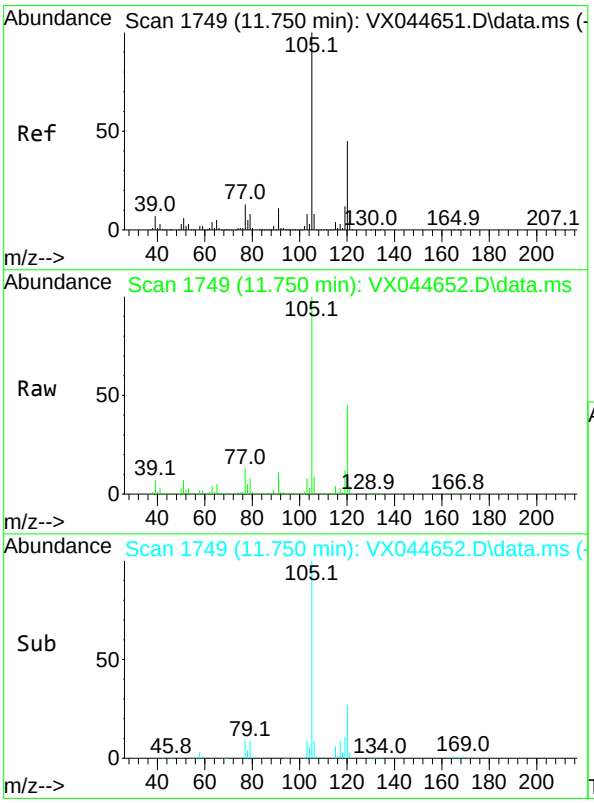
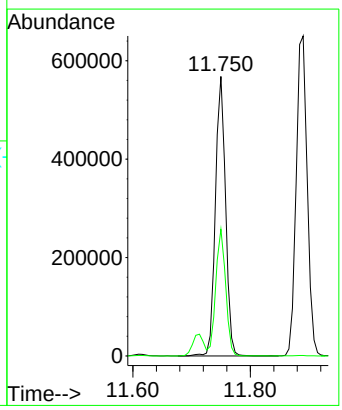
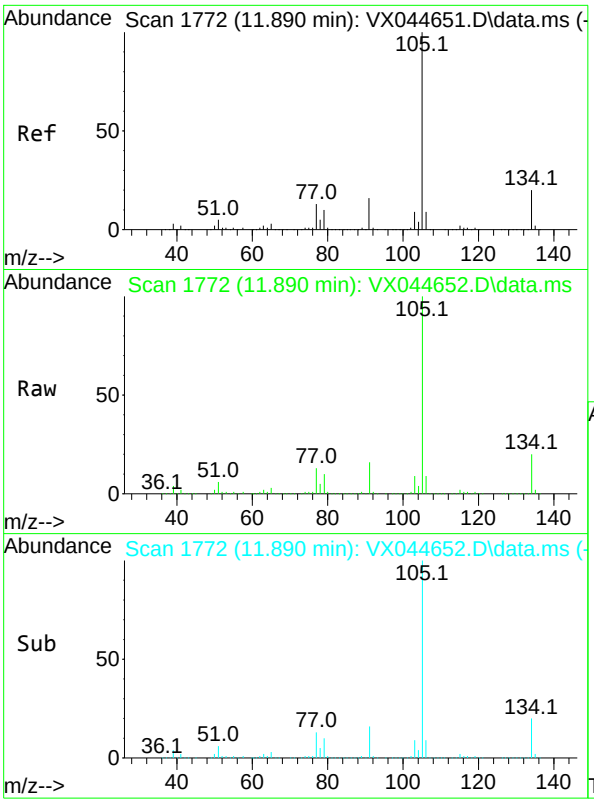



#84
1,2,4-Trimethylbenzene
Concen: 91.646 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:105 Resp: 681398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 22.2 | 66.6 |

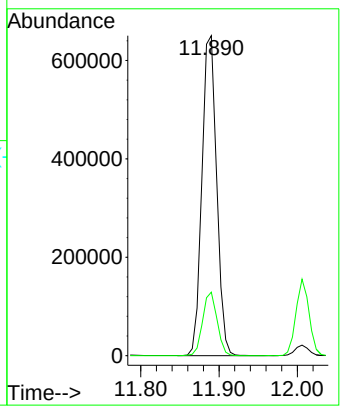





#85
sec-Butylbenzene
Concen: 95.235 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:105 Resp: 84832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.8 | 29.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
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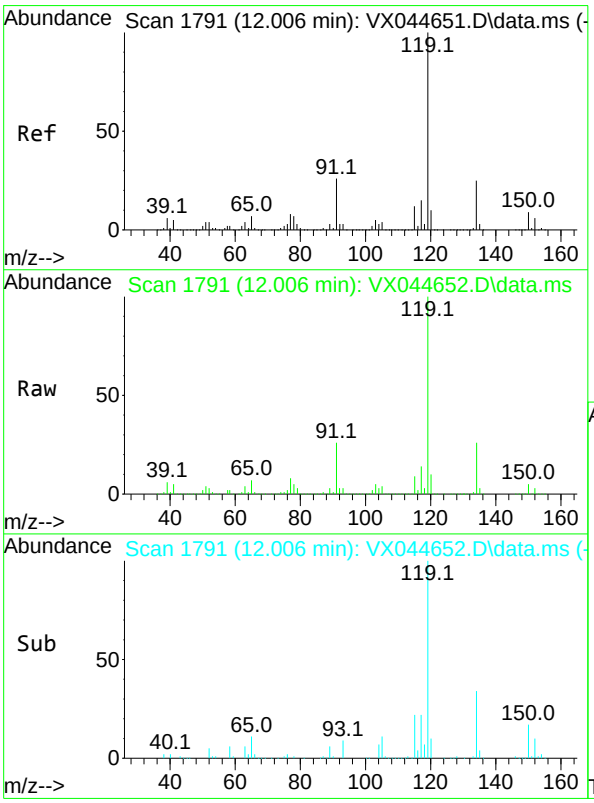
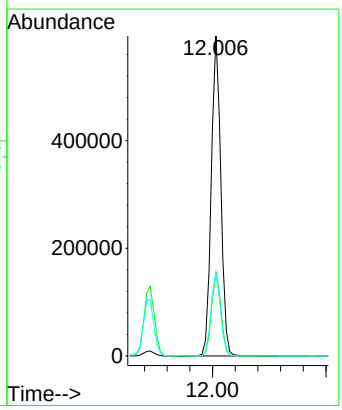
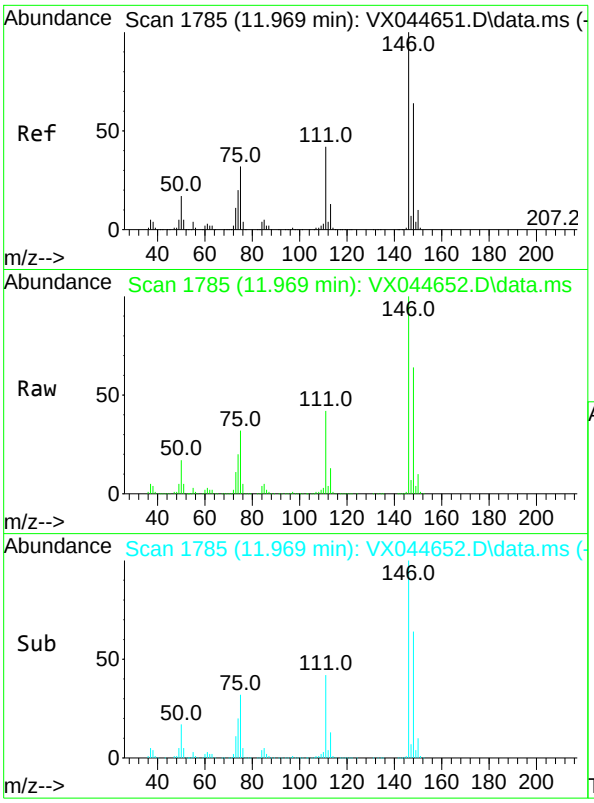



#86
p-Isopropyltoluene
Concen: 94.999 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:119 Resp: 695433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.1 | 12.8 | 38.4 |
| 91 | 25.7 | 12.7 | 38.1 |

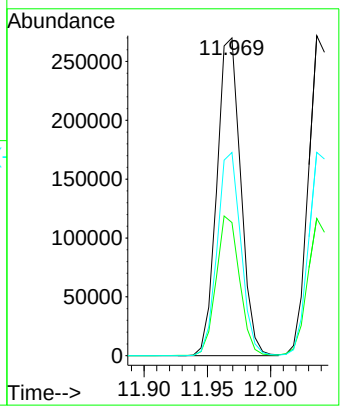





#87
1,3-Dichlorobenzene
Concen: 97.115 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:146 Resp: 353809

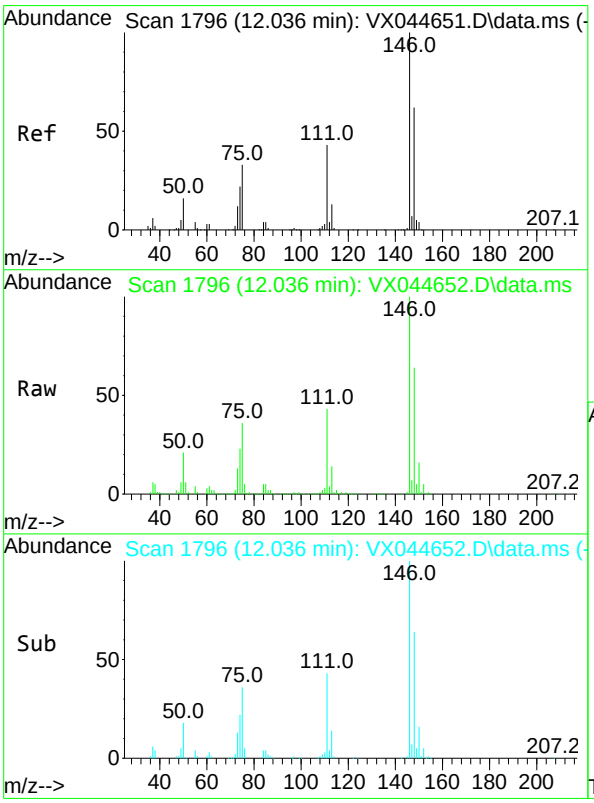
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.2 | 21.9 | 65.7 |
| 148 | 63.3 | 31.8 | 95.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

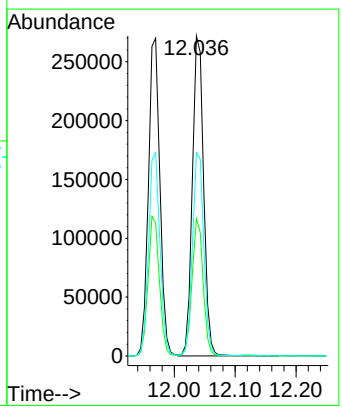
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

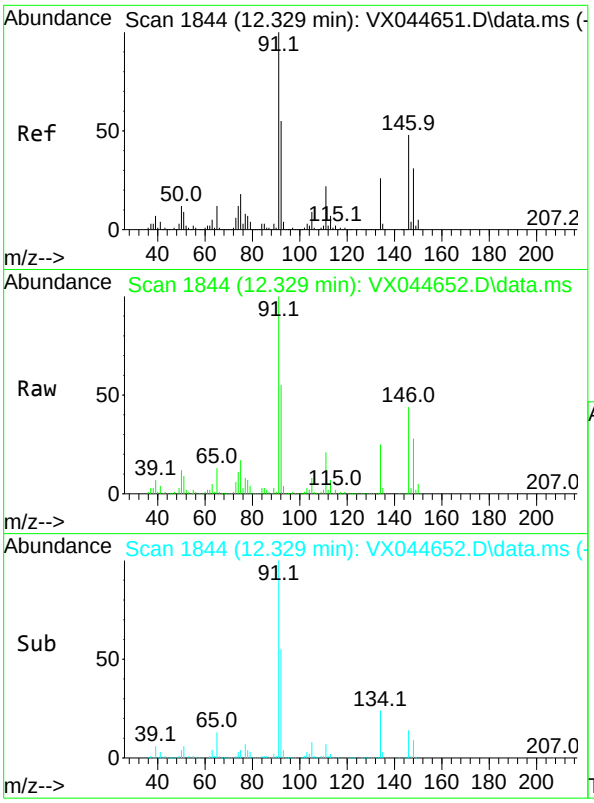



#88
1,4-Dichlorobenzene
Concen: 96.070 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:146 Resp: 347517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.1 | 21.5 | 64.5 |
| 148 | 63.9 | 32.1 | 96.5 |

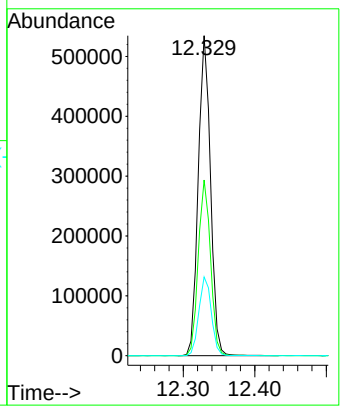





#89
n-Butylbenzene
Concen: 100.715 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 91 Resp: 63324

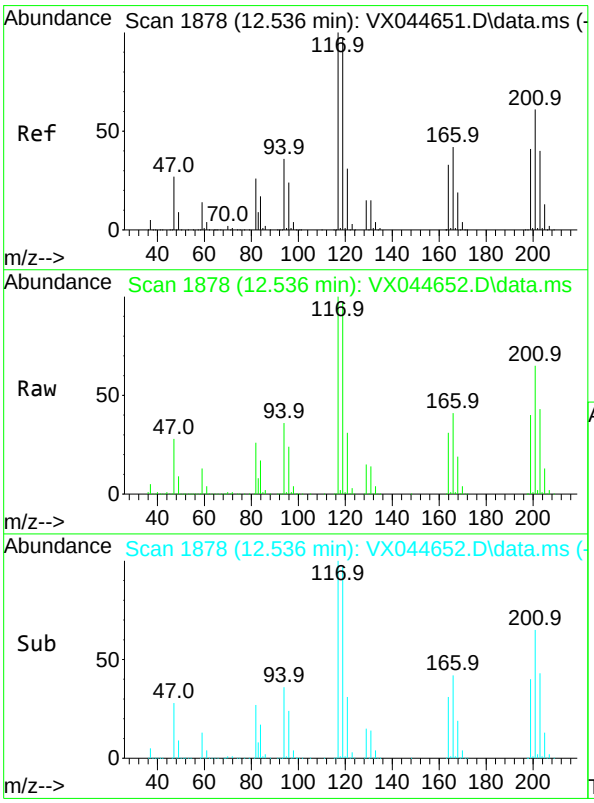
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 27.4 | 82.0 |
| 134 | 25.1 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

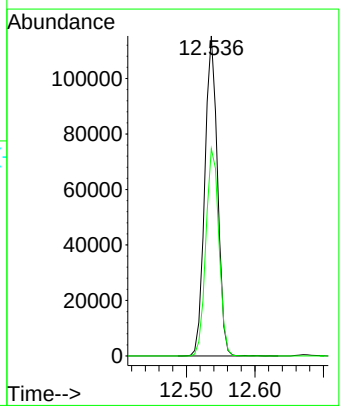
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

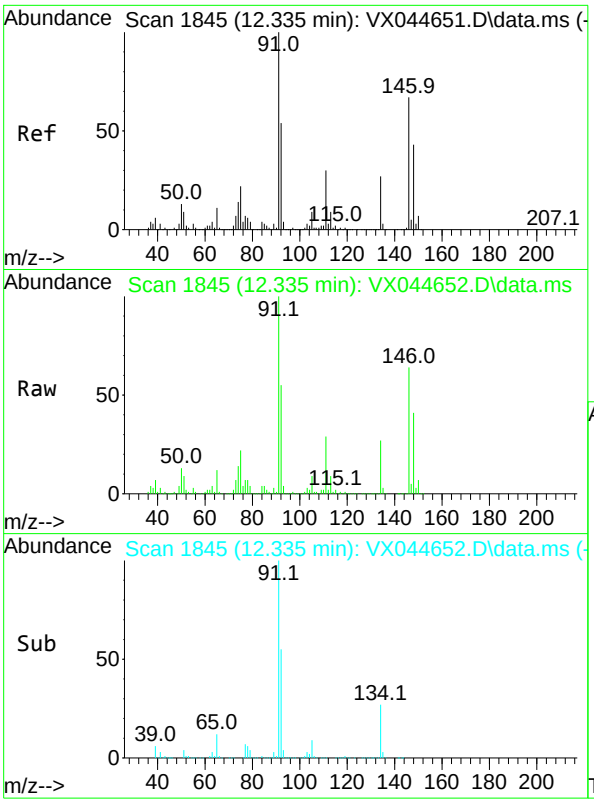



#90
Hexachloroethane
Concen: 90.037 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:117 Resp: 149253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 66.5 | 32.3 | 96.8 |

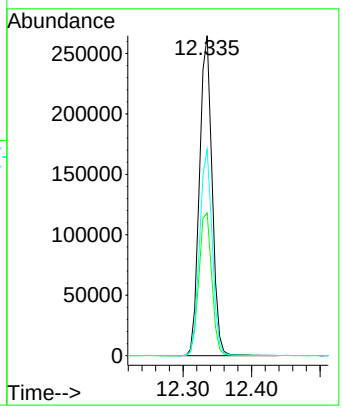





#91
1,2-Dichlorobenzene
Concen: 91.056 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:146 Resp: 34068

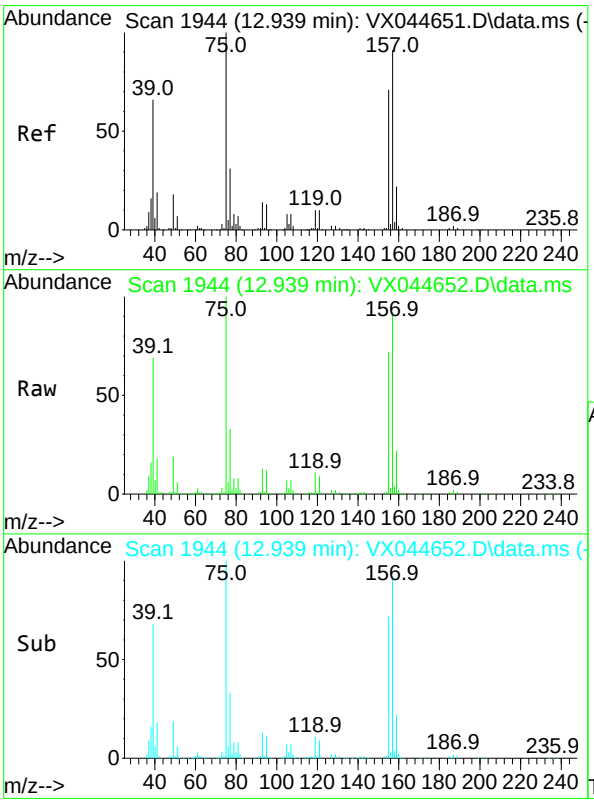
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.7 | 22.4 | 67.2 |
| 148 | 64.4 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

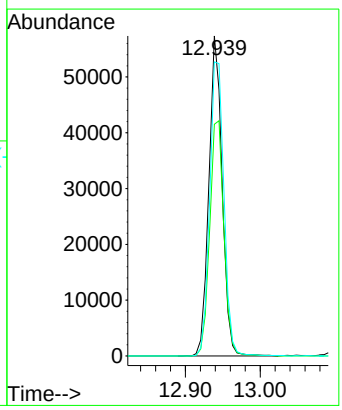
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

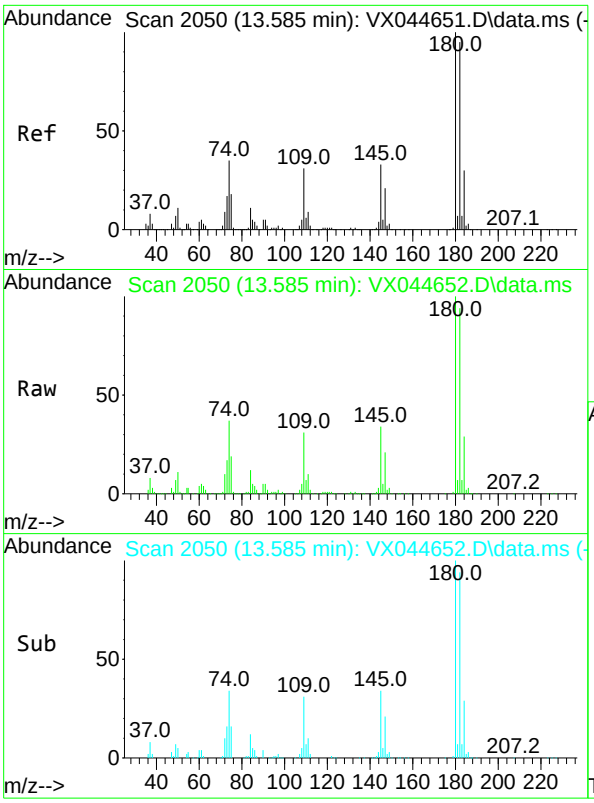



#92
1,2-Dibromo-3-Chloropropane
Concen: 93.344 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 70862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 78.9 | 39.0 | 116.9 |
| 157 | 99.1 | 49.9 | 149.7 |

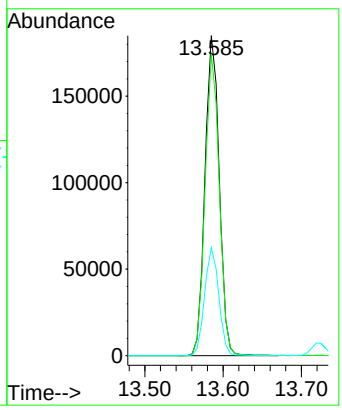





#93
1,2,4-Trichlorobenzene
Concen: 104.359 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:180 Resp: 23341

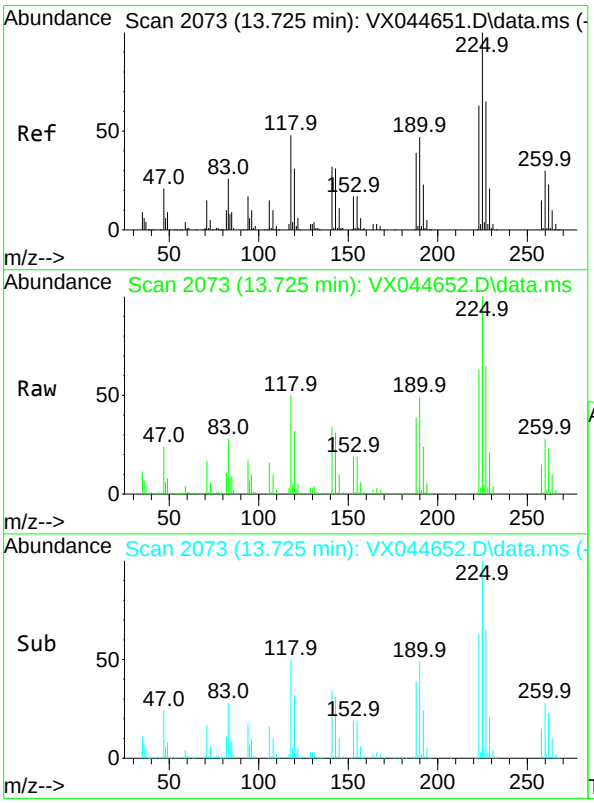
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 47.4 | 142.2 |
| 145 | 33.7 | 16.7 | 50.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

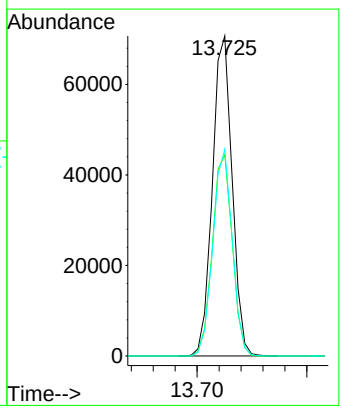
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

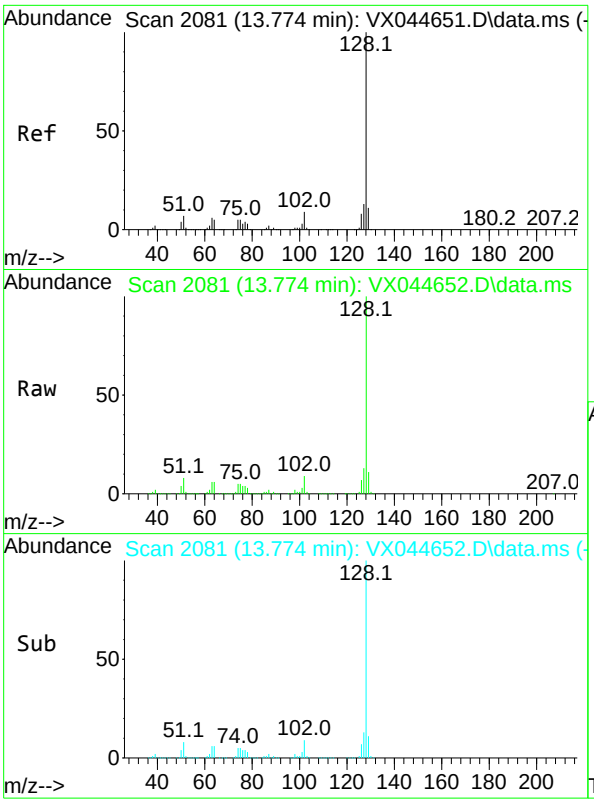



#94
Hexachlorobutadiene
Concen: 100.406 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:225 Resp: 88214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.6 | 31.9 | 95.7 |
| 227 | 63.4 | 31.8 | 95.4 |

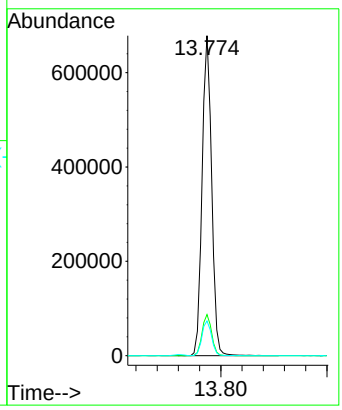





#95
Naphthalene
Concen: 98.464 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:128 Resp: 84940

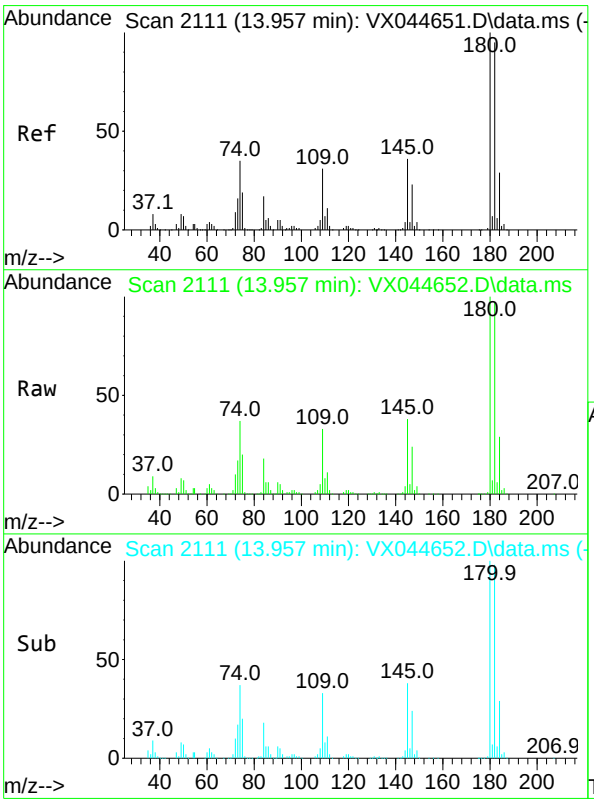
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 10.9 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

**Manual Integrations**
**APPROVED**

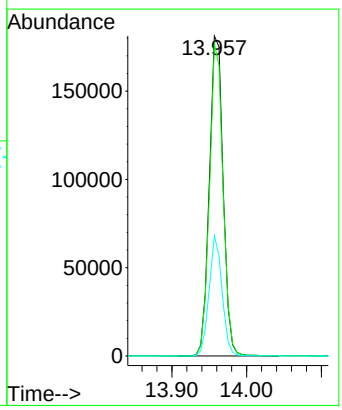
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 100.133 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:180 Resp: 232152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 47.2 | 141.6 |
| 145 | 35.5 | 17.5 | 52.6 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044653.D
Acq On : 15 Jan 2025 13:37
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:02:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 160078 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 290219 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 234362 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 100996 | 50.000 | ug/l | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 377212 | 156.114 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 312.220%# | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 289994 | 157.288 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 314.580%# | | | |
| 50) Toluene-d8 | 8.647 | 98 | 961550 | 149.572 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 299.140%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 366922 | 153.105 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 306.200%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 366593 | 170.185 | ug/l | 98 |
| 3) Chloromethane | 1.300 | 50 | 342210 | 146.909 | ug/l | 97 |
| 4) Vinyl Chloride | 1.374 | 62 | 359721 | 156.293 | ug/l | 99 |
| 5) Bromomethane | 1.593 | 94 | 87716 | 159.609 | ug/l | 97 |
| 6) Chloroethane | 1.660 | 64 | 71666 | 169.800 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.855 | 101 | 398544 | 156.676 | ug/l | 97 |
| 8) Diethyl Ether | 2.136 | 74 | 154291 | 150.299 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 2.313 | 101 | 302048 | 157.960 | ug/l | 99 |
| 10) Methyl Iodide | 2.441 | 142 | 394541 | 151.126 | ug/l | 99 |
| 11) Tert butyl alcohol | 3.062 | 59 | 387839m | 711.783 | ug/l | |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 296987 | 158.449 | ug/l | 99 |
| 13) Acrolein | 2.239 | 56 | 193280 | 762.485 | ug/l | 99 |
| 14) Allyl chloride | 2.654 | 41 | 534150 | 146.366 | ug/l | 100 |
| 15) Acrylonitrile | 3.068 | 53 | 783976 | 742.040 | ug/l | 99 |
| 16) Acetone | 2.392 | 43 | 708100 | 740.713 | ug/l | 100 |
| 17) Carbon Disulfide | 2.495 | 76 | 803379 | 157.079 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 483139 | 163.814 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 1034710 | 152.410 | ug/l | 99 |
| 20) Methylene Chloride | 2.782 | 84 | 325957 | 146.417 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 290671 | 148.536 | ug/l | 98 |
| 22) Diisopropyl ether | 3.763 | 45 | 957045 | 150.864 | ug/l | 91 |
| 23) Vinyl Acetate | 3.721 | 43 | 4101581 | 738.701 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 594429 | 158.014 | ug/l | 99 |
| 25) 2-Butanone | 4.562 | 43 | 1079716 | 759.640 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 550106 | 150.882 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.477 | 96 | 370177 | 150.386 | ug/l | 99 |
| 28) Bromochloromethane | 4.891 | 49 | 251238 | 142.922 | ug/l | 99 |
| 29) Tetrahydrofuran | 5.007 | 42 | 689928 | 752.528 | ug/l | 99 |
| 30) Chloroform | 5.086 | 83 | 579322 | 152.595 | ug/l | 99 |
| 31) Cyclohexane | 5.458 | 56 | 476106 | 156.483 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 522062 | 149.582 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 386304 | 150.517 | ug/l | 99 |
| 37) Ethyl Acetate | 4.715 | 43 | 433924 | 158.764 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 437442 | 151.528 | ug/l | 99 |
| 39) Methylcyclohexane | 7.373 | 83 | 534976 | 157.021 | ug/l | 99 |
| 40) Benzene | 6.031 | 78 | 1205057 | 151.523 | ug/l | 99 |

Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044653.D
Acq On : 15 Jan 2025 13:37
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Jan 16 01:02:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 238601 | 151.900 | ug/l | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 446380 | 153.782 | ug/l | 98 |
| 43) Isopropyl Acetate | 6.336 | 43 | 761866 | 151.528 | ug/l | 100 |
| 44) Trichloroethene | 7.117 | 130 | 309226 | 161.735 | ug/l | 96 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 308641 | 154.175 | ug/l | 99 |
| 46) Dibromomethane | 7.574 | 93 | 231674 | 152.021 | ug/l | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 471682 | 150.924 | ug/l | 99 |
| 48) Methyl methacrylate | 7.690 | 41 | 368626 | 157.946 | ug/l | 99 |
| 49) 1,4-Dioxane | 7.671 | 88 | 146350 | 3005.585 | ug/l | 99 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 1994498 | 717.818 | ug/l | 100 |
| 52) Toluene | 8.714 | 92 | 699585 | 143.719 | ug/l | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 490414 | 151.880 | ug/l | 96 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 524796 | 149.891 | ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 279505 | 141.923 | ug/l | 99 |
| 56) Ethyl methacrylate | 9.116 | 69 | 499842 | 147.609 | ug/l | 100 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 485347 | 144.720 | ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 1178391 | 708.825 | ug/l | 99 |
| 59) 2-Hexanone | 9.433 | 43 | 1482861 | 725.401 | ug/l | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 335937 | 145.333 | ug/l | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 296982 | 143.893 | ug/l | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 229004 | 155.612 | ug/l | 98 |
| 65) Chlorobenzene | 10.079 | 112 | 750161 | 150.697 | ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 276991 | 153.108 | ug/l | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 1315242 | 151.424 | ug/l | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 941355 | 292.054 | ug/l | 100 |
| 69) o-Xylene | 10.640 | 106 | 473907 | 145.386 | ug/l | 98 |
| 70) Styrene | 10.652 | 104 | 792889 | 150.660 | ug/l | 100 |
| 71) Bromoform | 10.799 | 173 | 232464 | 157.877 | ug/l | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 1207427 | 146.343 | ug/l | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 622491 | 153.069 | ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 415068 | 145.660 | ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 356222m | 149.343 | ug/l | |
| 77) Bromobenzene | 11.195 | 156 | 288579 | 149.641 | ug/l | 100 |
| 78) n-propylbenzene | 11.305 | 91 | 1375979 | 151.223 | ug/l | 100 |
| 79) 2-Chlorotoluene | 11.366 | 91 | 857617 | 145.911 | ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 959600 | 142.870 | ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 171786 | 160.280 | ug/l | 99 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 957835 | 148.761 | ug/l | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 999760 | 142.356 | ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 991595 | 145.281 | ug/l | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 1214662 | 148.543 | ug/l | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 1000632 | 148.902 | ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 521112 | 155.816 | ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 12.042 | 146 | 516467 | 155.532 | ug/l | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 904589 | 156.724 | ug/l | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 222866 | 146.455 | ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 511280 | 148.860 | ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 107815 | 154.709 | ug/l | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 352298 | 171.582 | ug/l | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 129218 | 160.216 | ug/l | 99 |
| 95) Naphthalene | 13.774 | 128 | 1285749 | 162.361 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 350134 | 164.515 | ug/l | 99 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044653.D
Acq On : 15 Jan 2025 13:37
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:02:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

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

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

ICAL Form

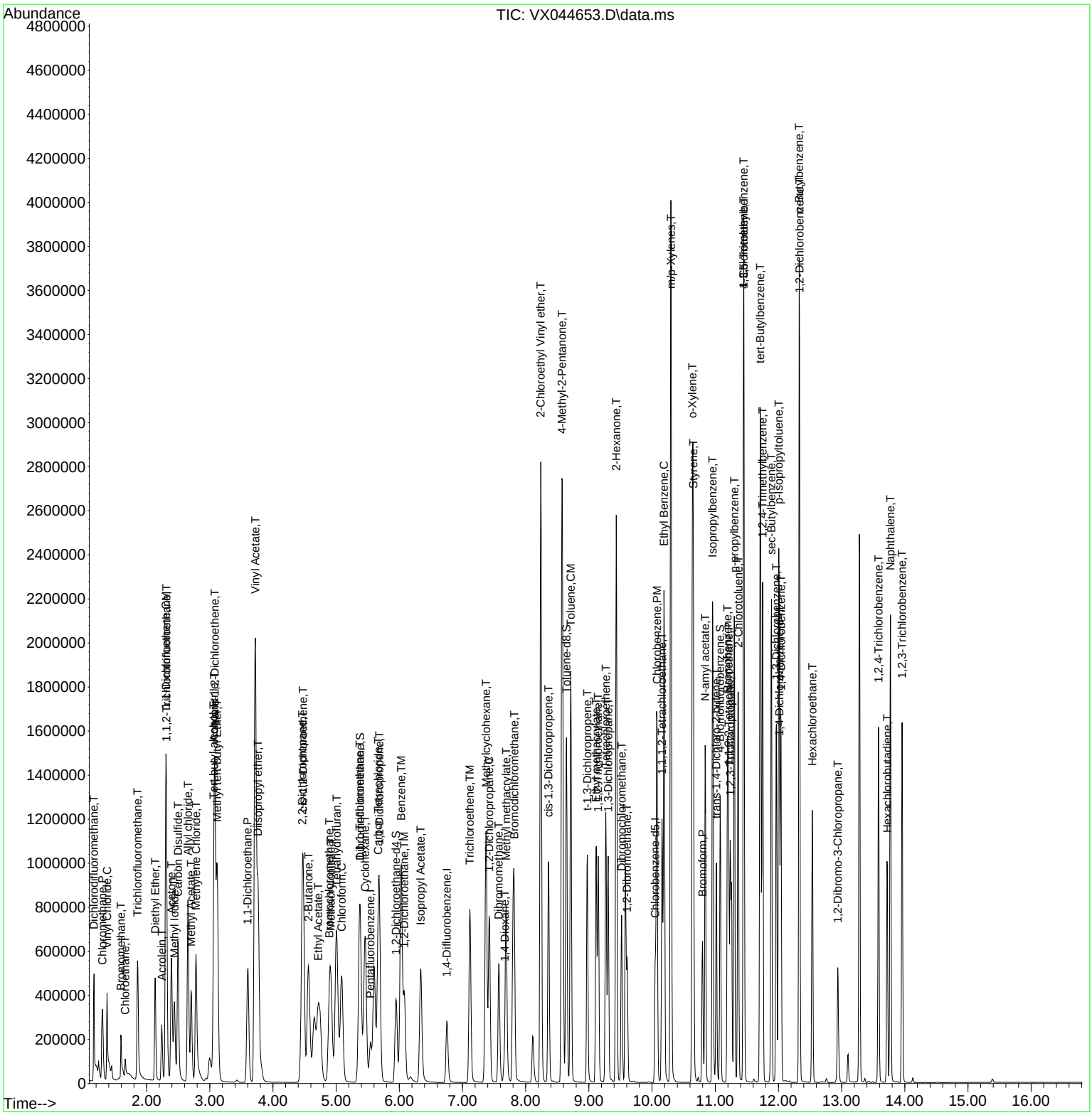
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044653.D
Acq On : 15 Jan 2025 13:37
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

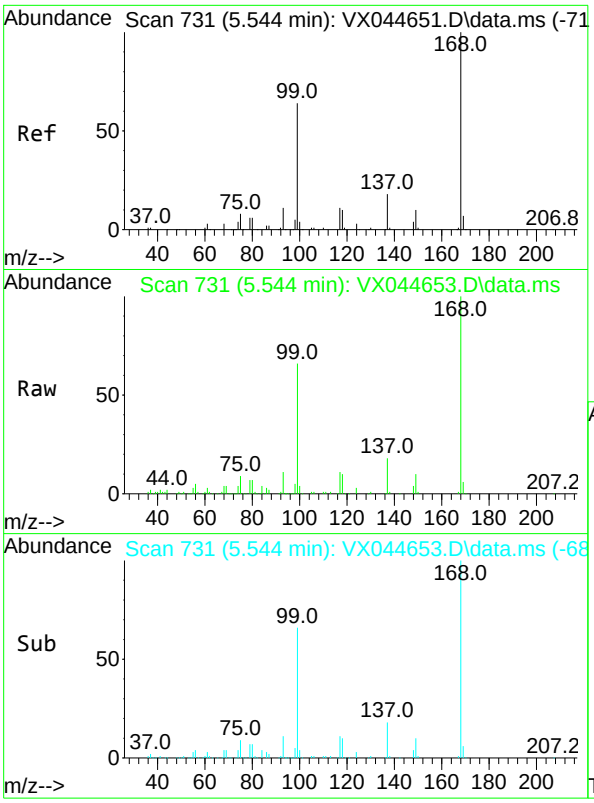
Quant Time: Jan 16 01:02:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 00:57:36 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025






#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

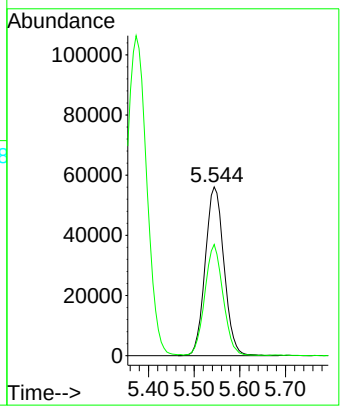
Tgt Ion:168 Resp: 16007

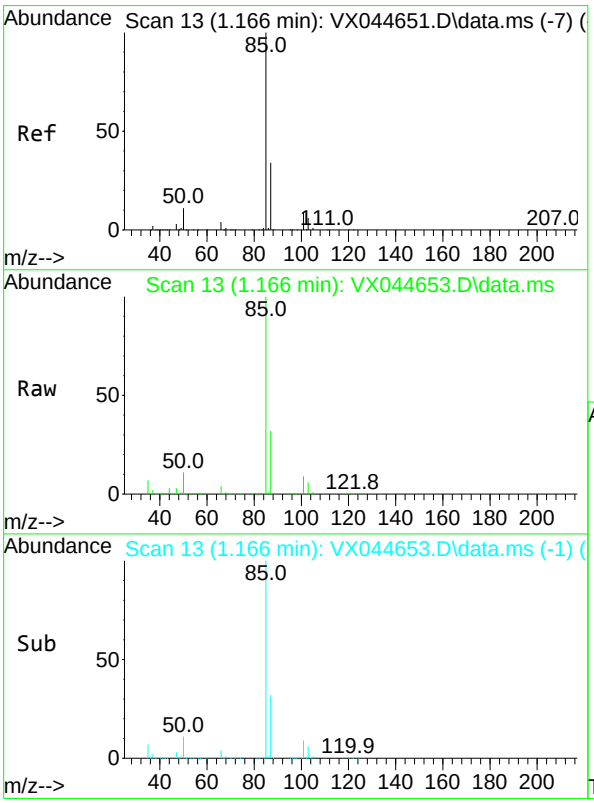
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.5 | 51.1 | 76.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

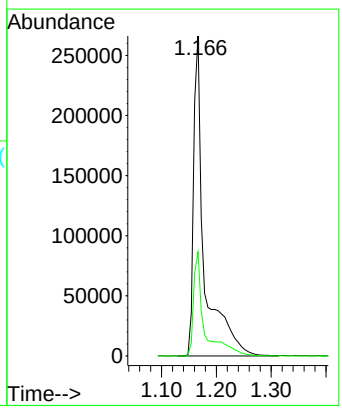


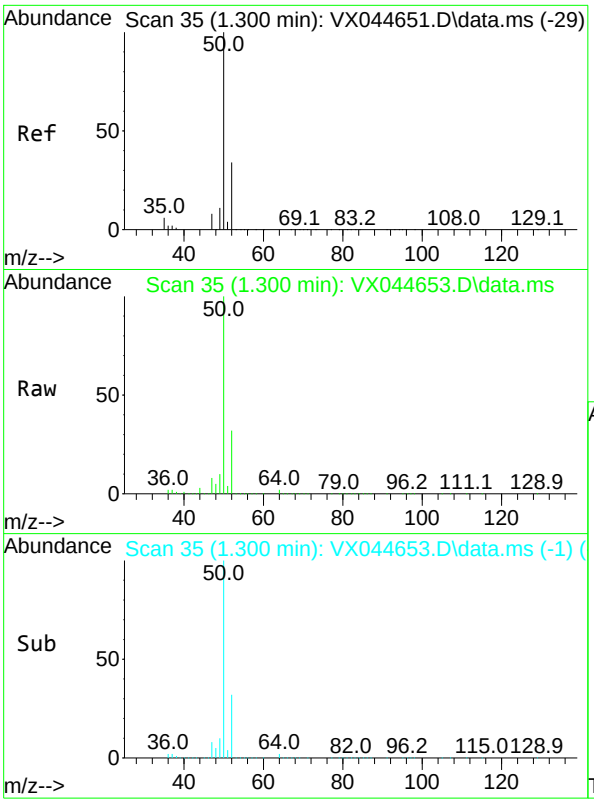




#2
Dichlorodifluoromethane
Concen: 170.185 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 85 Resp: 366593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.8 | 50.4 |

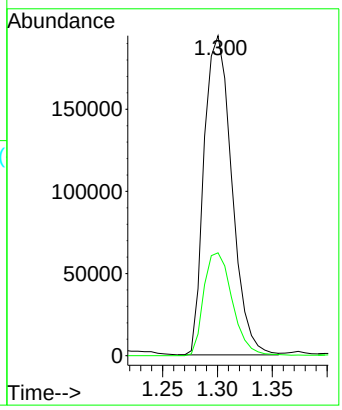





#3
Chloromethane
Concen: 146.909 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 50 Resp: 34221

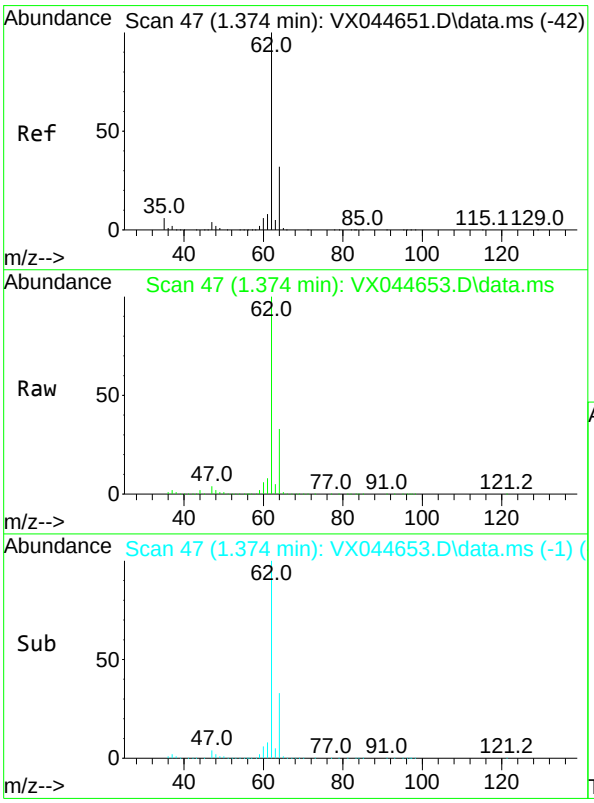
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.2 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

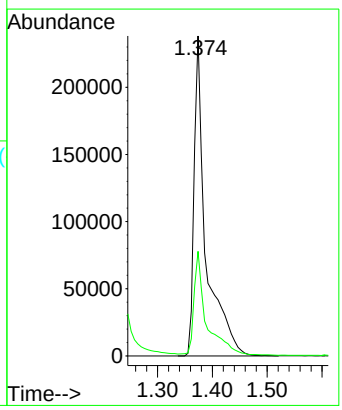
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

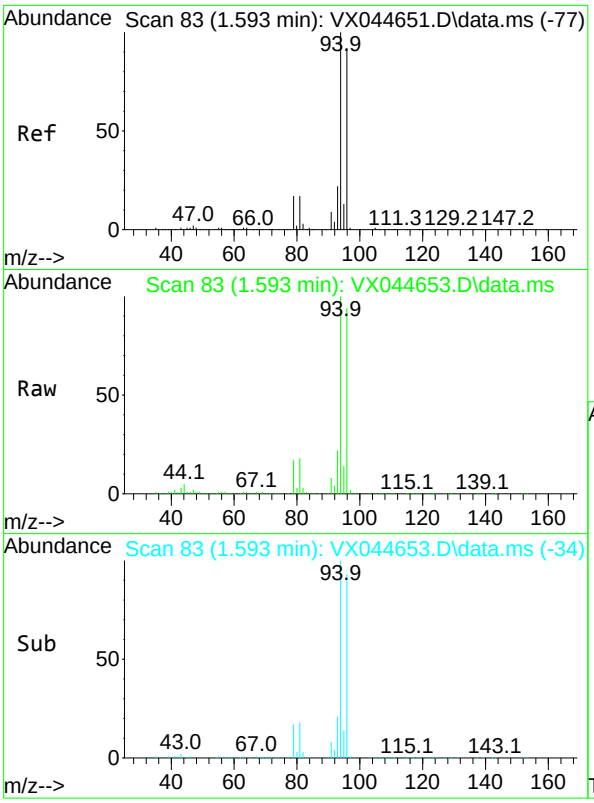



#4
Vinyl Chloride
Concen: 156.293 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 62 Resp: 359721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.5 | 26.6 | 39.8 |

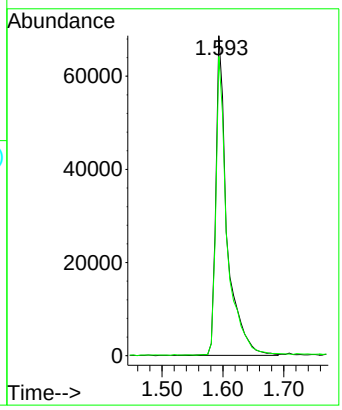





#5
Bromomethane
Concen: 159.609 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 94 Resp: 8771

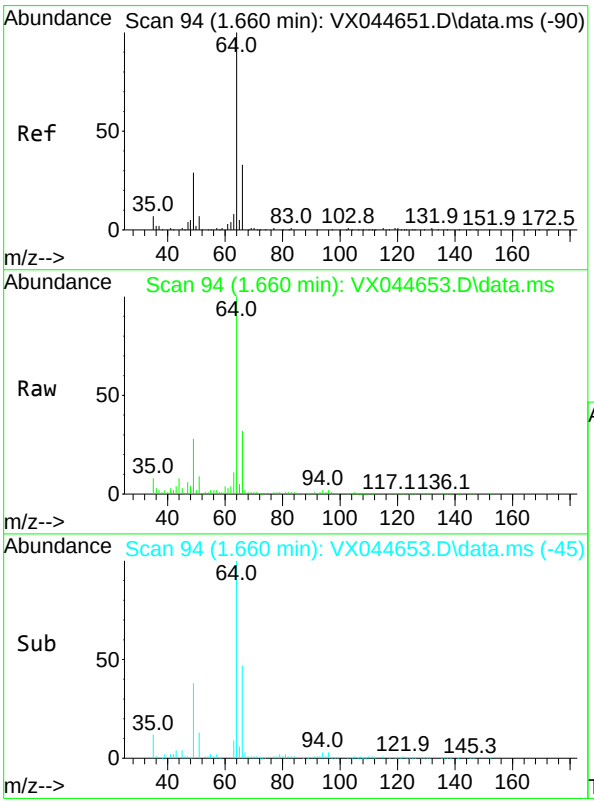
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.4 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

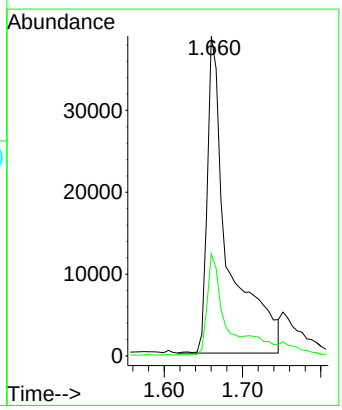
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

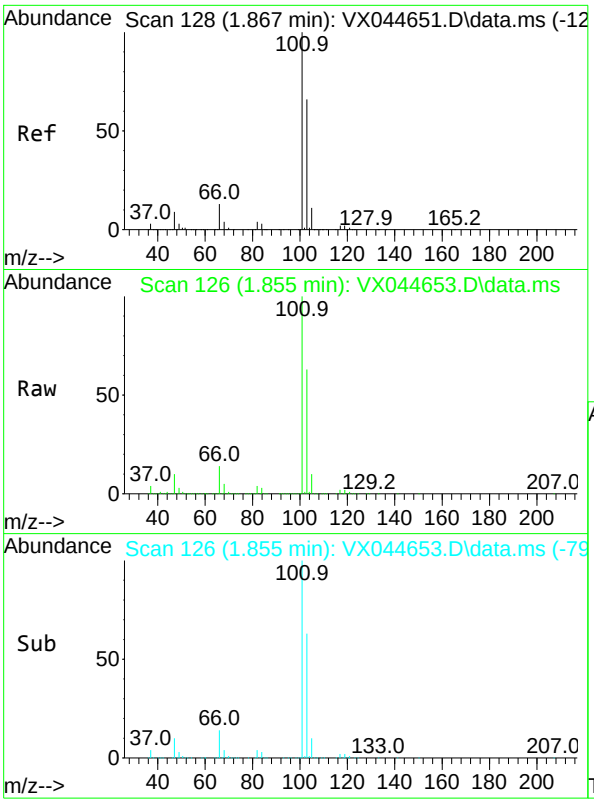



#6
Chloroethane
Concen: 169.800 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 64 Resp: 71666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.8 | 26.6 | 39.8 |

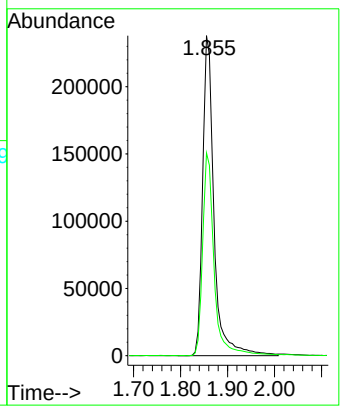





#7
Trichlorofluoromethane
Concen: 156.676 ug/l
RT: 1.855 min Scan# 1
Delta R.T. -0.012 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:101 Resp: 39854

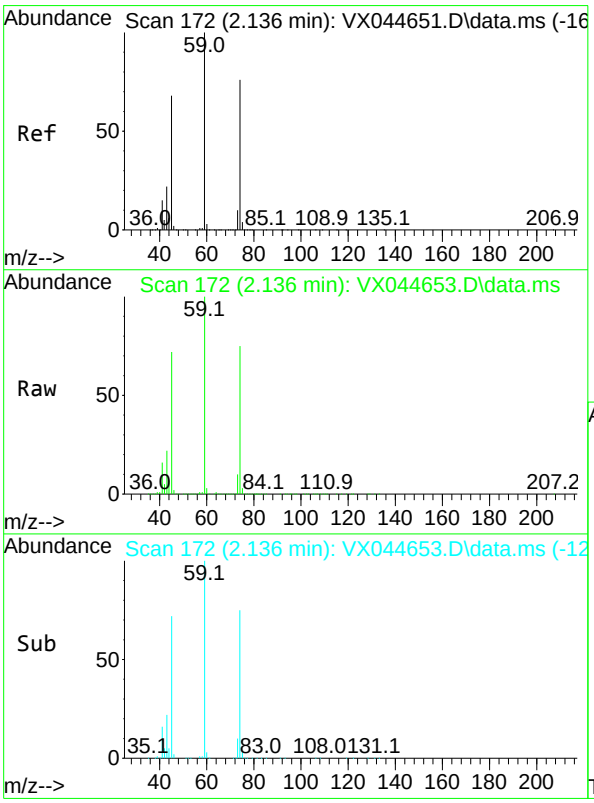
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 52.5 | 78.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

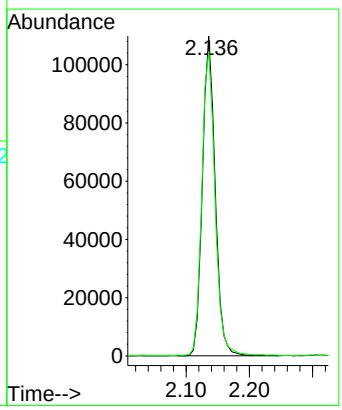
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

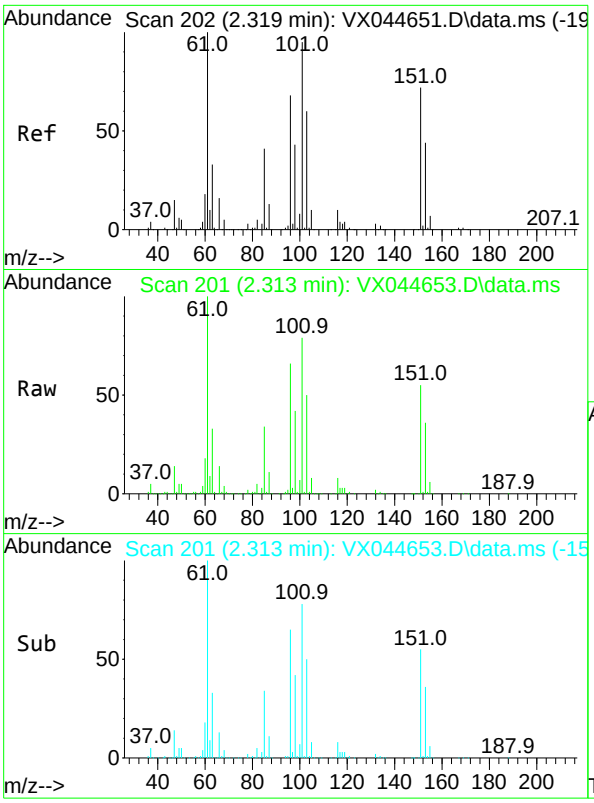



#8
Diethyl Ether
Concen: 150.299 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 74 Resp: 154291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.3 | 47.1 | 141.3 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 157.960 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

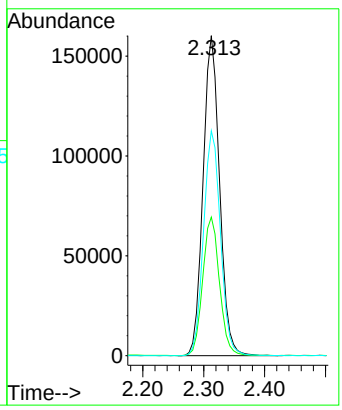
Tgt Ion:101 Resp: 30204

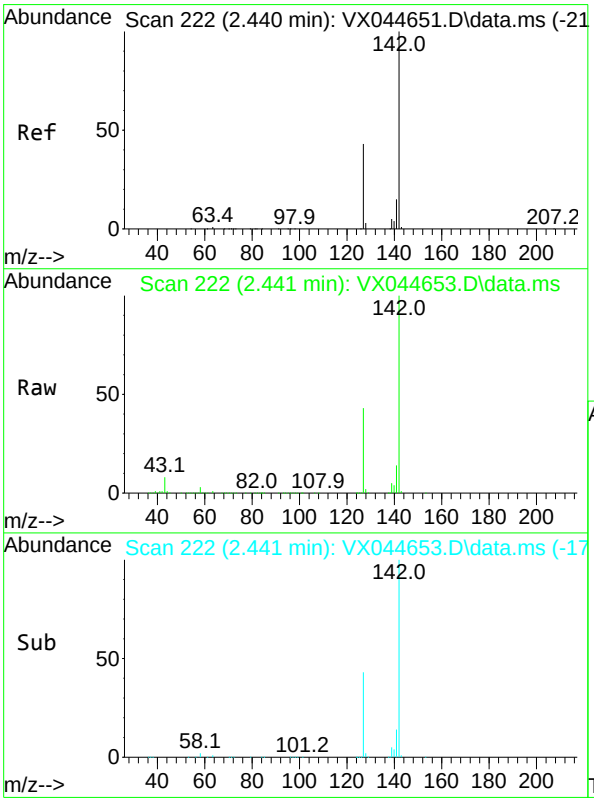
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.8 | 35.3 | 52.9 |
| 151 | 72.0 | 58.2 | 87.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

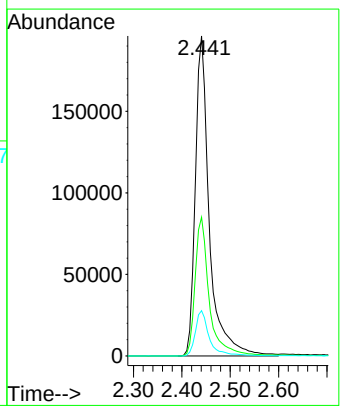


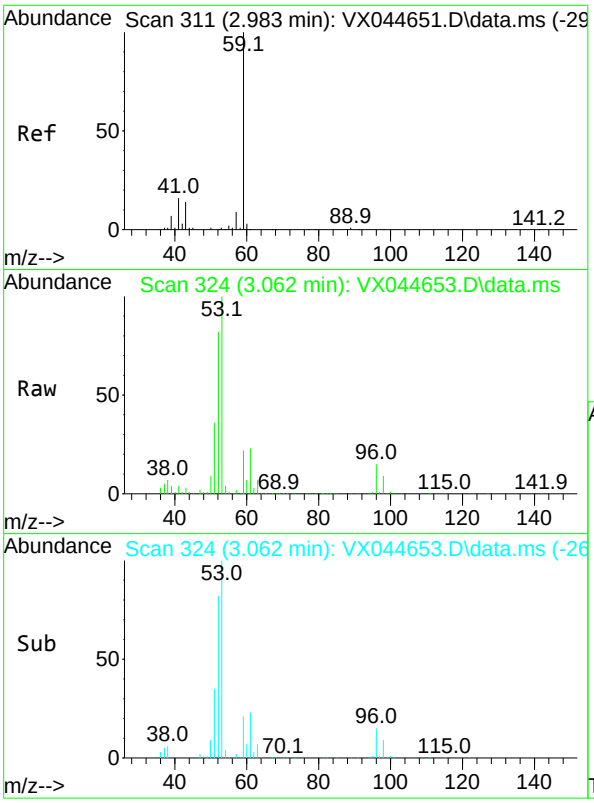




#10
Methyl Iodide
Concen: 151.126 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:142 Resp: 394541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.4 | 35.0 | 52.4 |
| 141 | 14.2 | 11.7 | 17.5 |

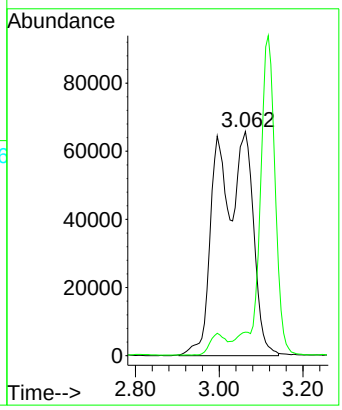





#11
Tert butyl alcohol
Concen: 711.783 ug/l m
RT: 3.062 min Scan# 3
Delta R.T. 0.079 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 59 Resp: 38783

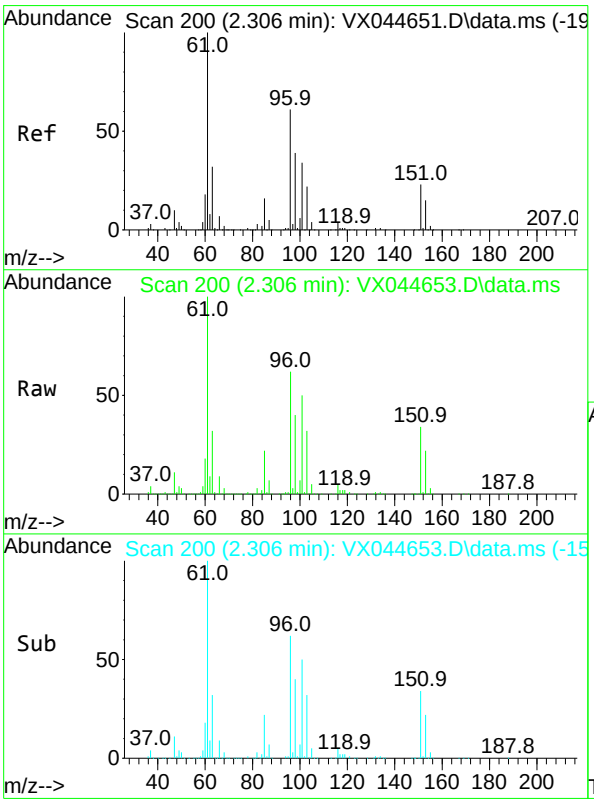
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 4.5 | 3.9 | 5.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

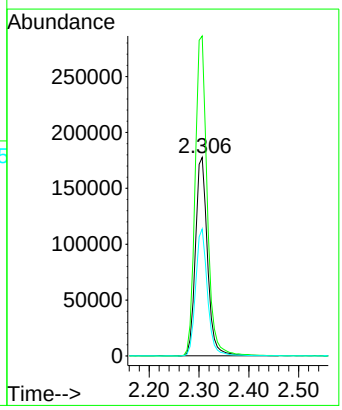
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

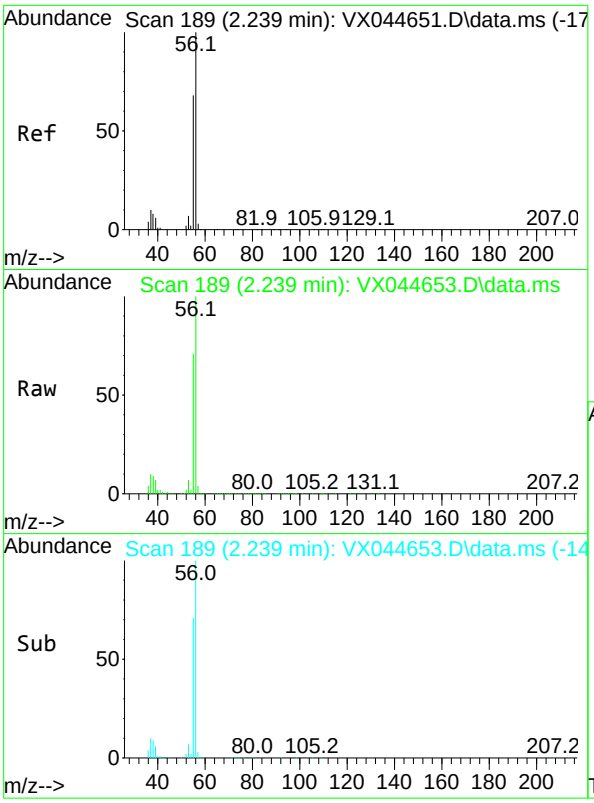



#12
1,1-Dichloroethene
Concen: 158.449 ug/l
RT: 2.306 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 96 Resp: 296987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.3 | 131.1 | 196.7 |
| 98 | 64.0 | 51.2 | 76.8 |

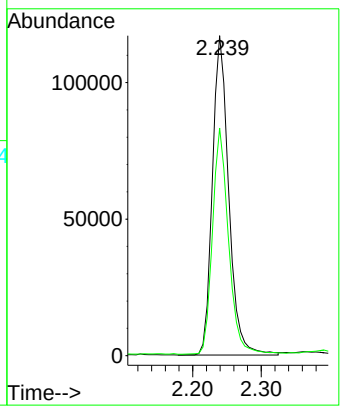





#13
Acrolein
Concen: 762.485 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 56 Resp: 19328

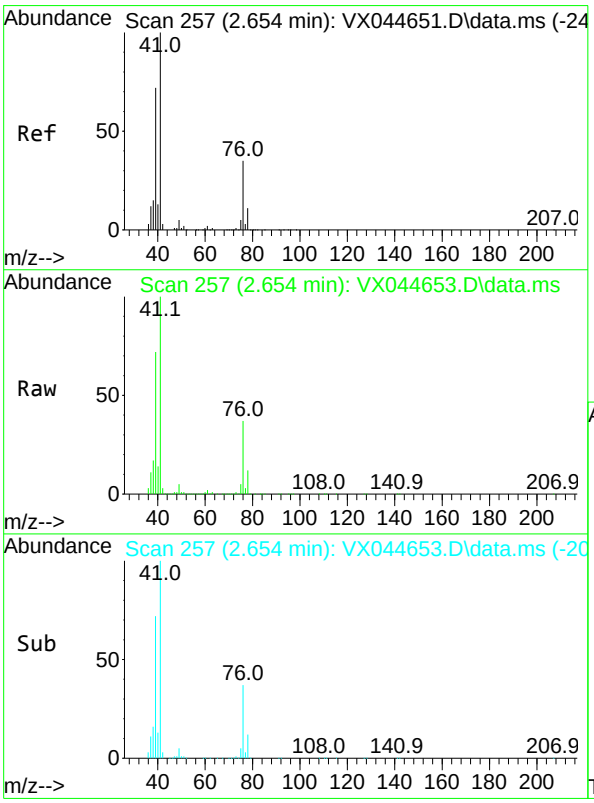
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.9 | 55.1 | 82.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

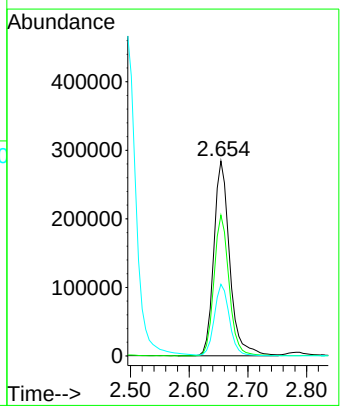
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

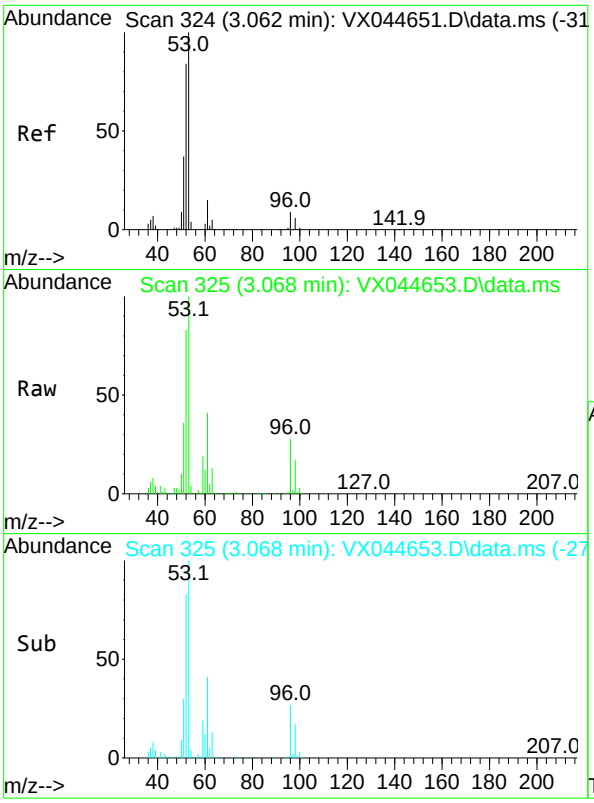



#14
Allyl chloride
Concen: 146.366 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 41 Resp: 534150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.7 | 54.9 | 82.3 |
| 76 | 34.9 | 28.4 | 42.6 |

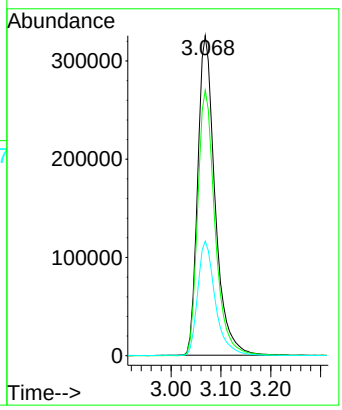





#15
Acrylonitrile
Concen: 742.040 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 53 Resp: 78397

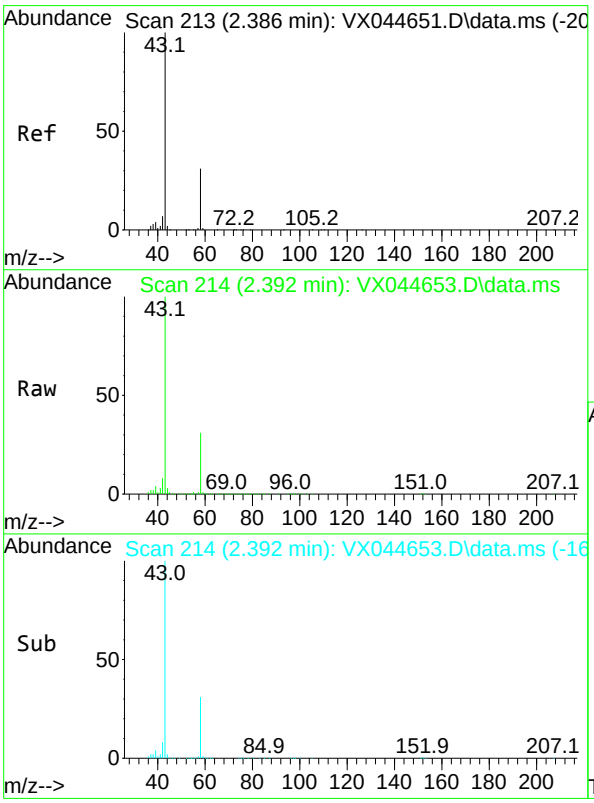
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.1 | 66.0 | 99.0 |
| 51 | 36.2 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

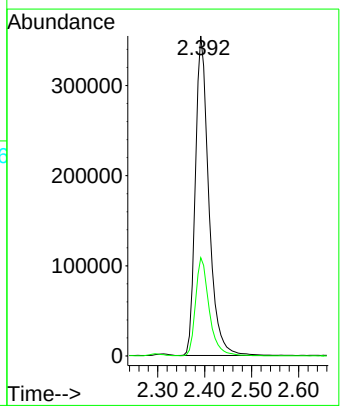
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

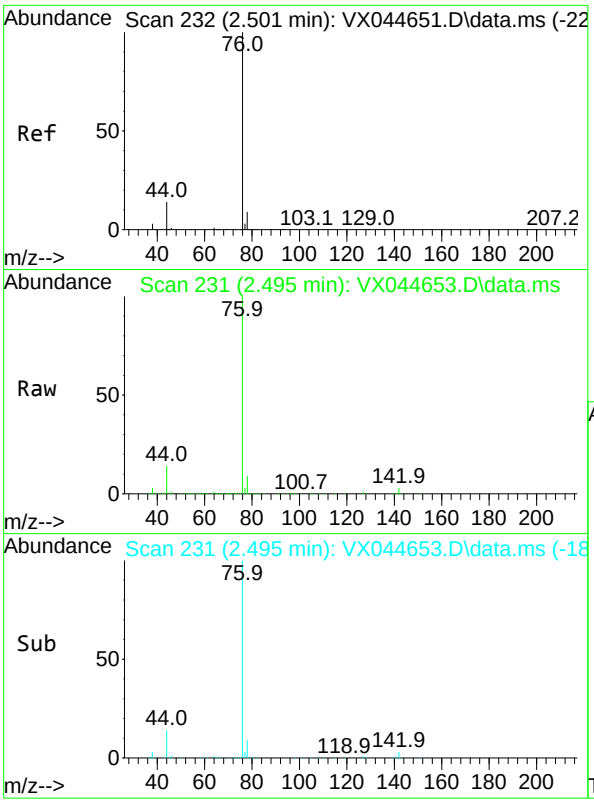



#16
Acetone
Concen: 740.713 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 708100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.7 | 24.6 | 37.0 |






#17
Carbon Disulfide
Concen: 157.079 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

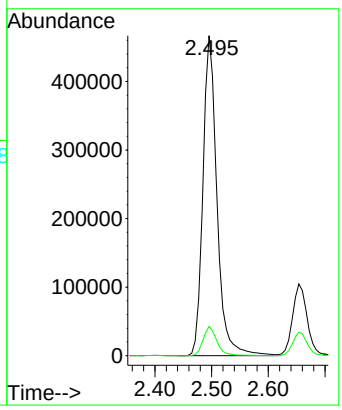
Tgt Ion: 76 Resp: 80337

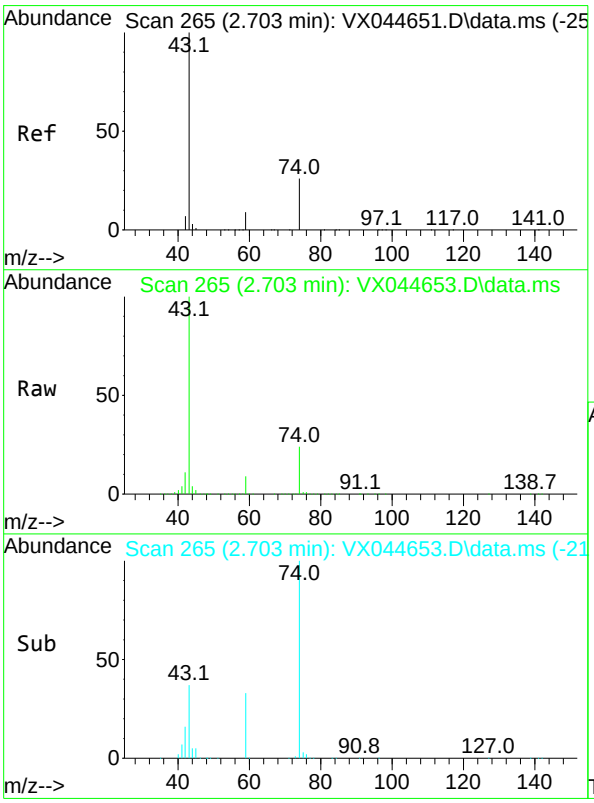
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.1 | 10.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

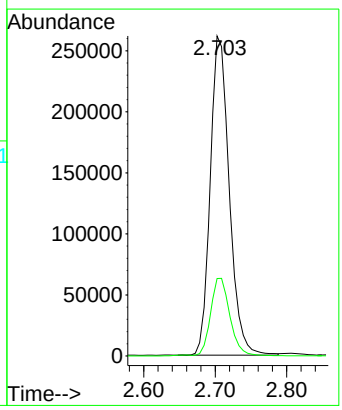


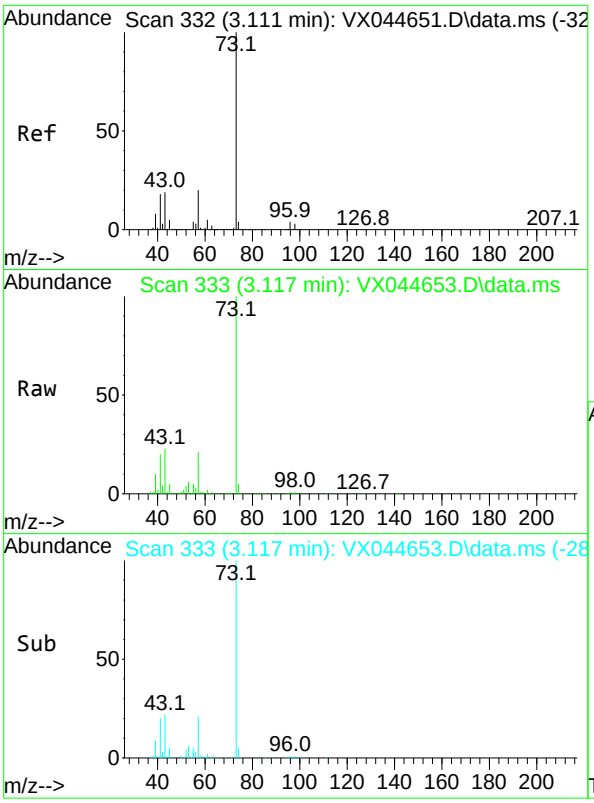




#18
Methyl Acetate
Concen: 163.814 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 483139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.7 | 19.8 | 29.8 |

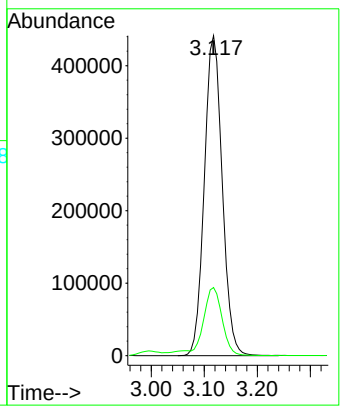





#19
Methyl tert-butyl Ether
Concen: 152.410 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 73 Resp: 103471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.2 | 17.4 | 26.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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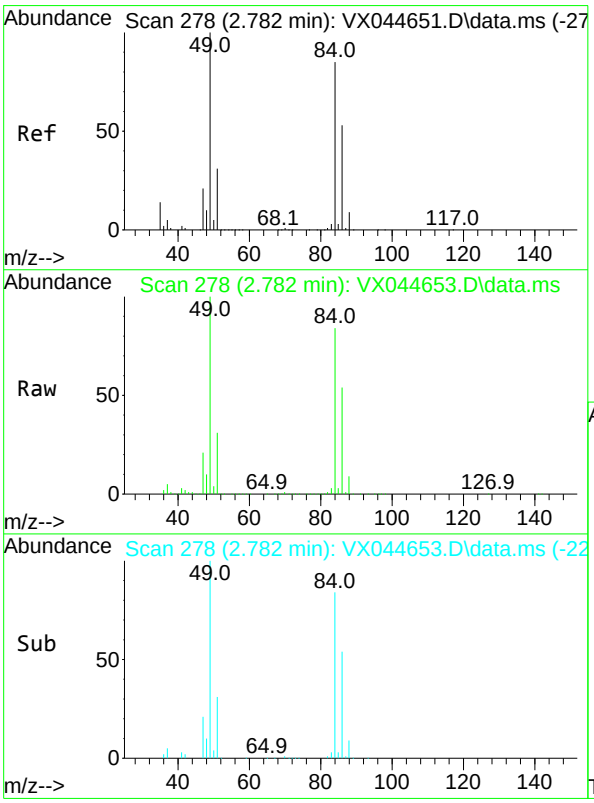
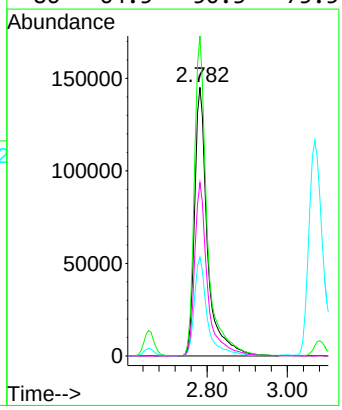
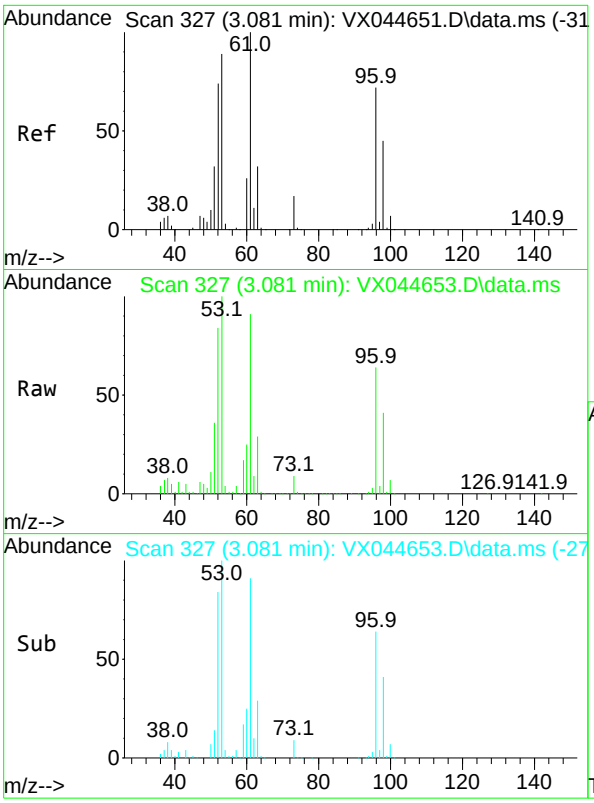



#20
Methylene Chloride
Concen: 146.417 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 84 Resp: 325957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.1 | 94.2 | 141.4 |
| 51 | 36.7 | 28.8 | 43.2 |
| 86 | 64.5 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 148.536 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 96 Resp: 29067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.3 | 111.0 | 166.6 |
| 98 | 64.2 | 50.2 | 75.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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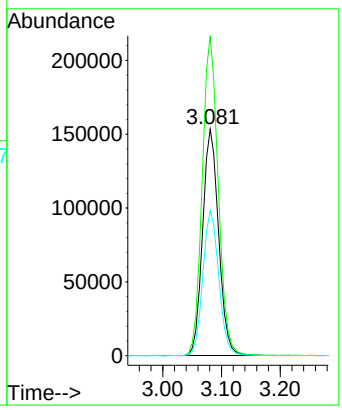
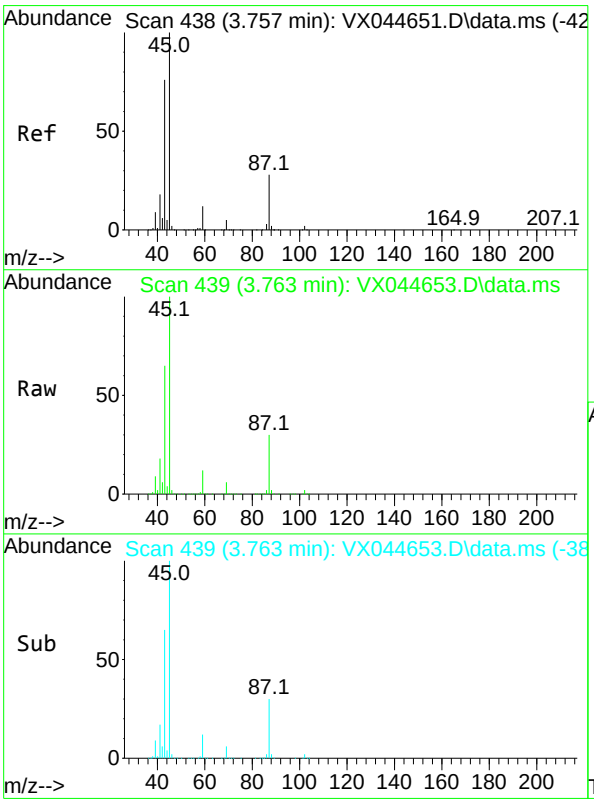
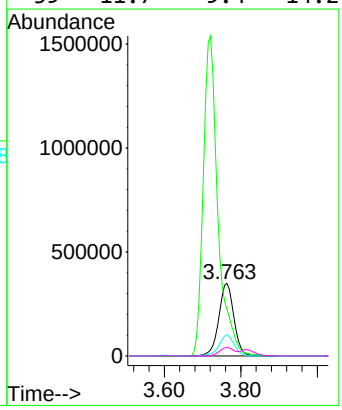


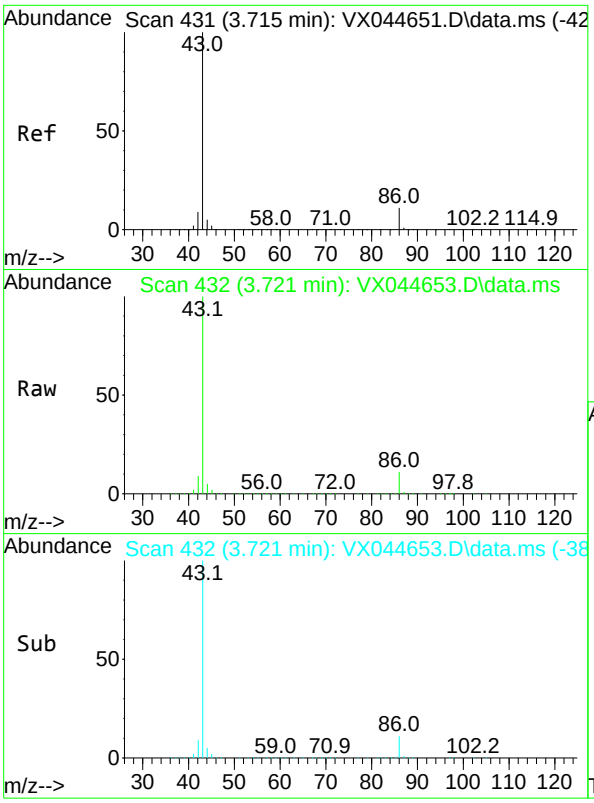




#22
Diisopropyl ether
Concen: 150.864 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 45 Resp: 957045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 64.8 | 61.0 | 91.6 |
| 87 | 29.6 | 22.7 | 34.1 |
| 59 | 11.7 | 9.4 | 14.2 |

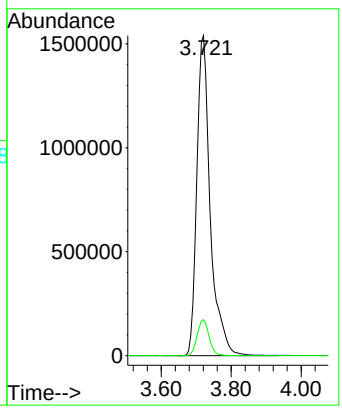





#23
Vinyl Acetate
Concen: 738.701 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 410158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 8.9 | 13.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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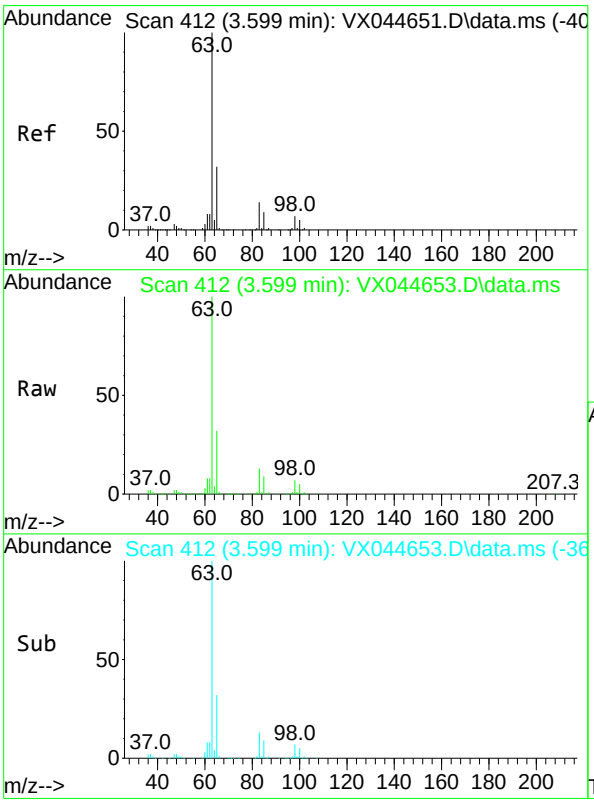
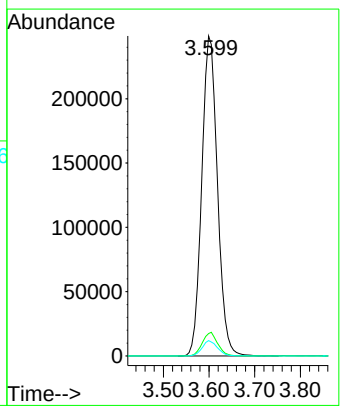
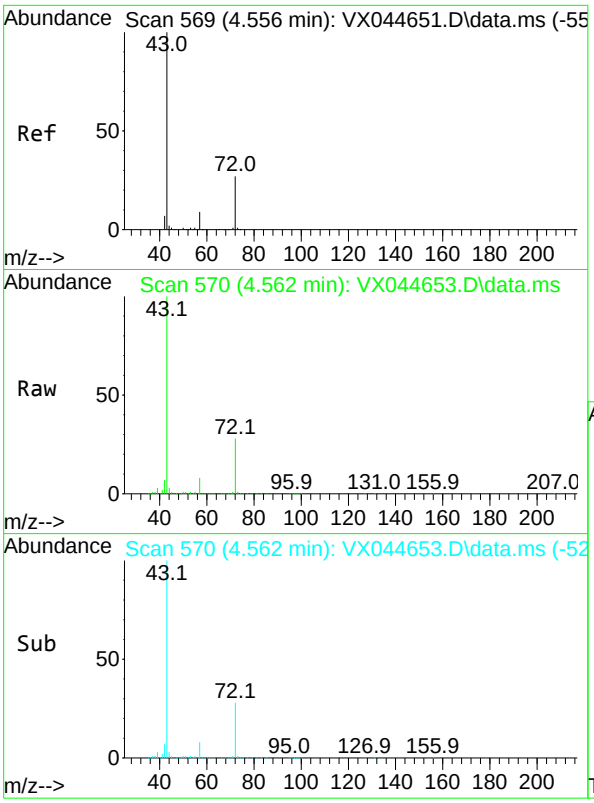



#24
1,1-Dichloroethane
Concen: 158.014 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 63 Resp: 594429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.6 | 10.9 |
| 100 | 4.8 | 2.5 | 7.5 |

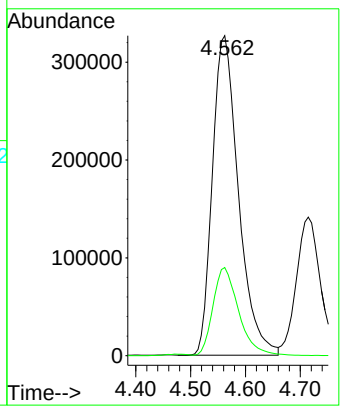





#25
2-Butanone
Concen: 759.640 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 107971

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 21.7 | 32.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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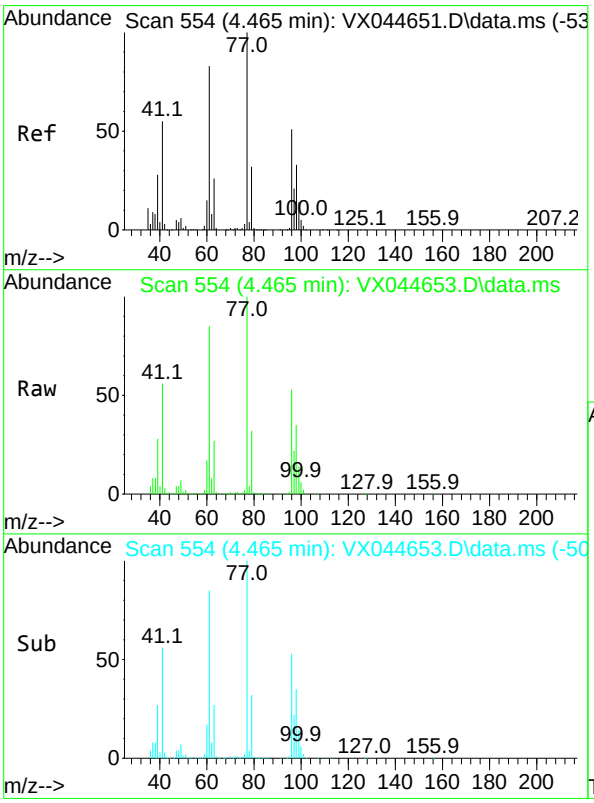
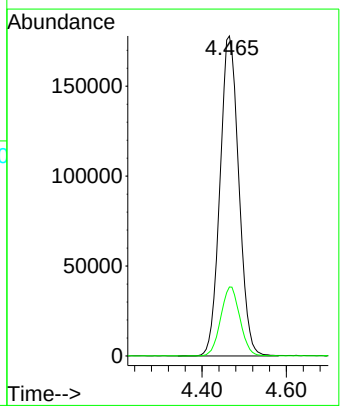
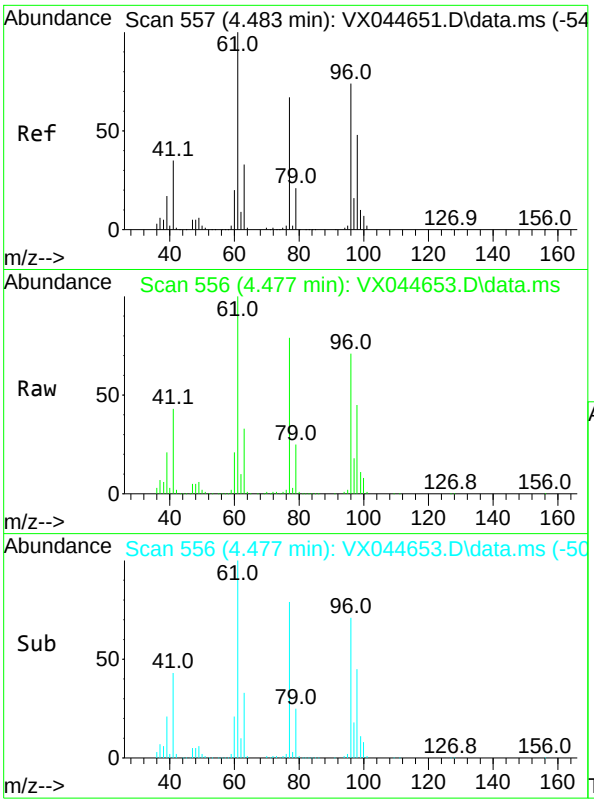



#26
2,2-Dichloropropane
Concen: 150.882 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 77 Resp: 550106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |

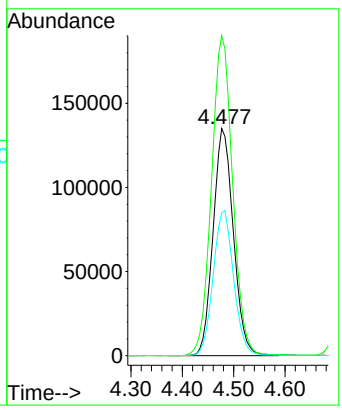





#27
cis-1,2-Dichloroethene
Concen: 150.386 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 96 Resp: 37017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.0 | 0.0 | 296.0 |
| 98 | 64.4 | 0.0 | 130.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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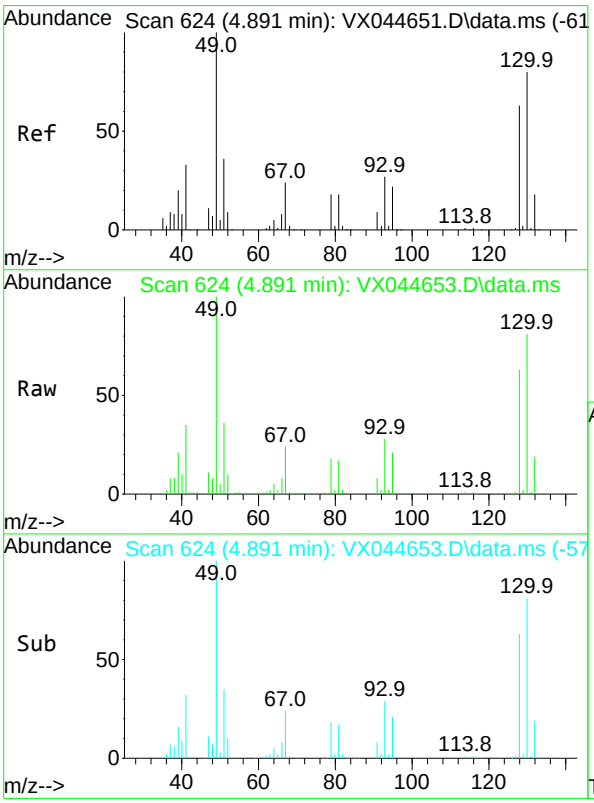
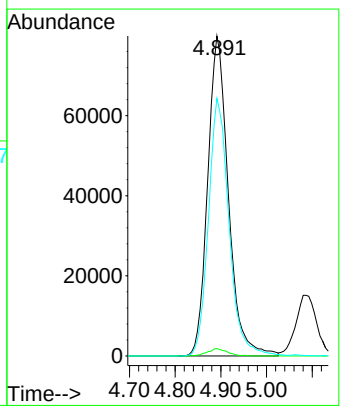
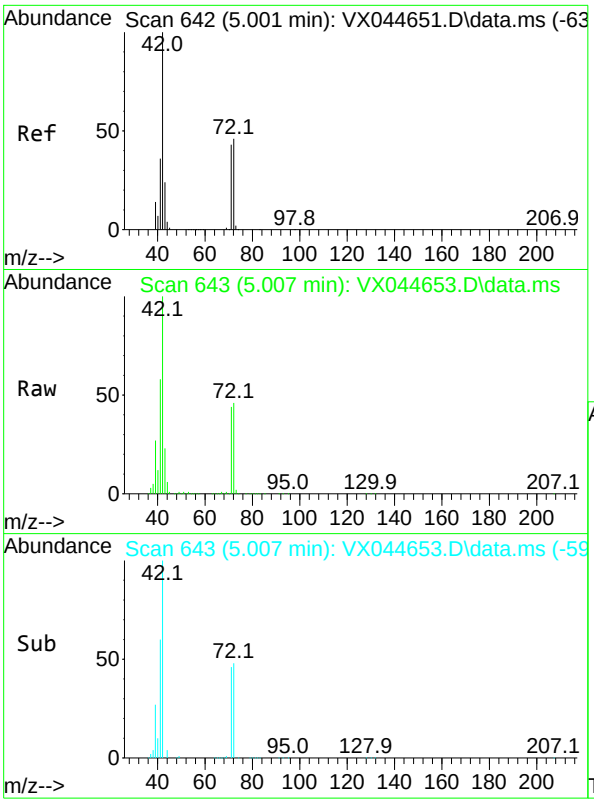



#28
Bromochloromethane
Concen: 142.922 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 49 Resp: 251238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.4 |
| 130 | 80.2 | 63.4 | 95.2 |

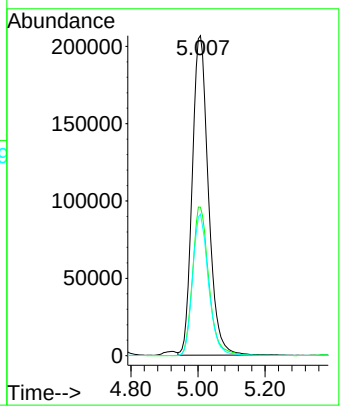





#29
Tetrahydrofuran
Concen: 752.528 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 42 Resp: 68992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.0 | 38.2 | 57.4 |
| 71 | 43.6 | 35.3 | 52.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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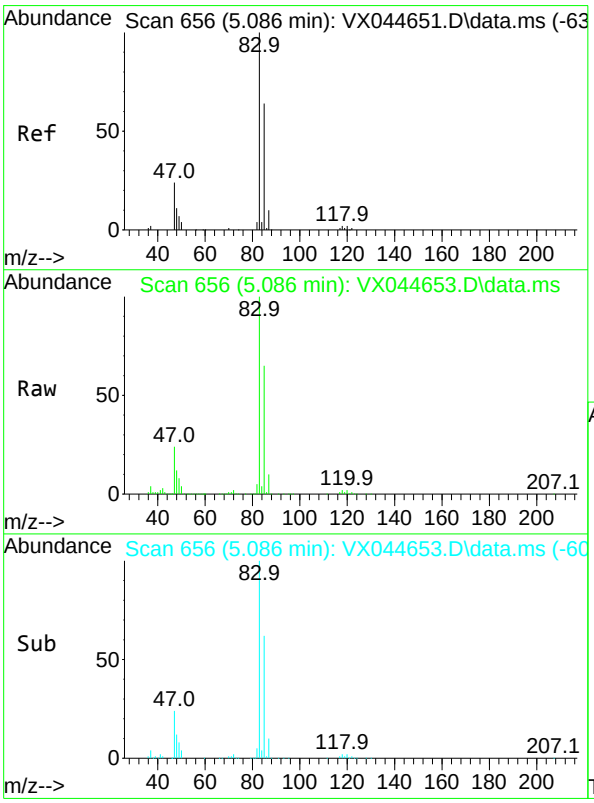
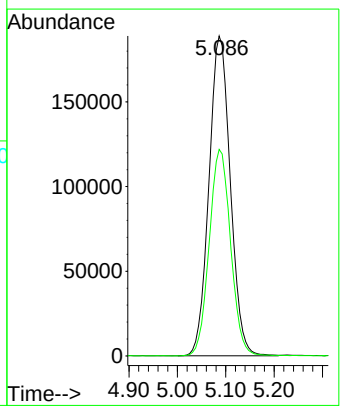
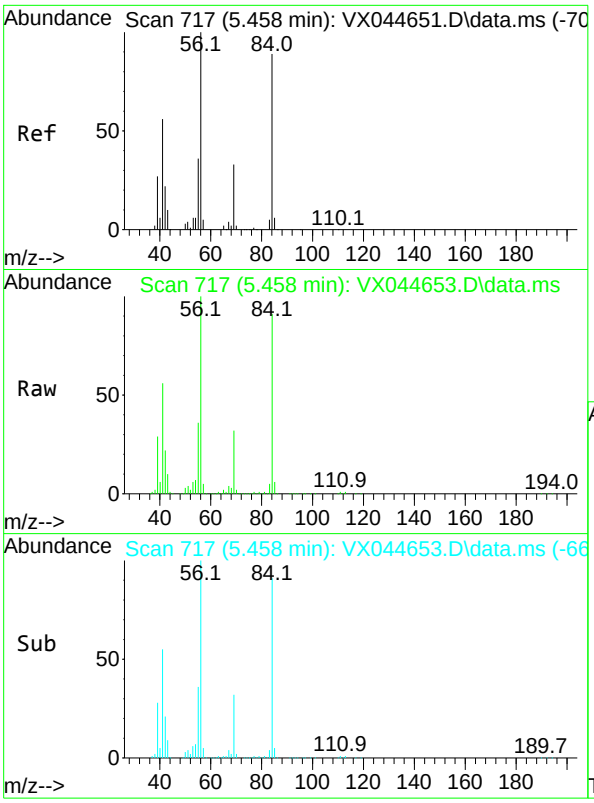



#30
Chloroform
Concen: 152.595 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 83 Resp: 579322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 51.2 | 76.8 |

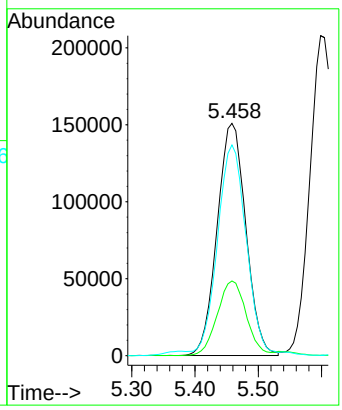





#31
Cyclohexane
Concen: 156.483 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 56 Resp: 47610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.1 | 26.8 | 40.2 |
| 84 | 89.3 | 71.0 | 106.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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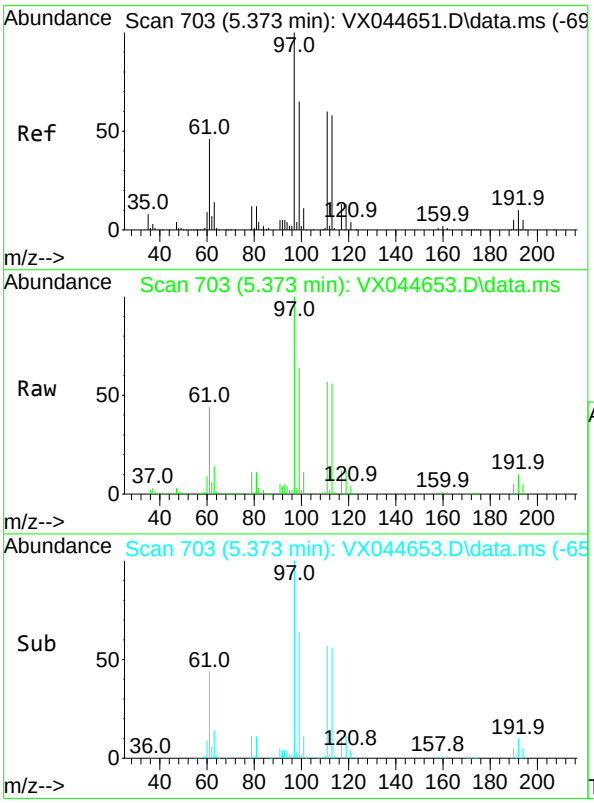
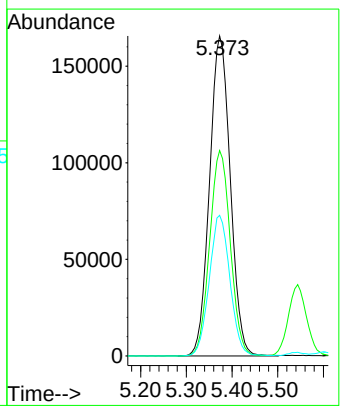
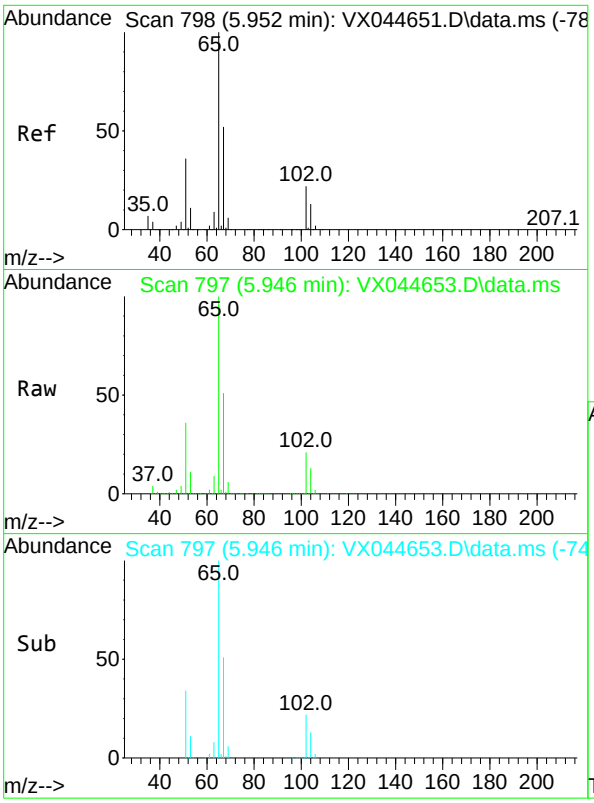



#32
1,1,1-Trichloroethane
Concen: 149.582 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 97 Resp: 522062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.6 | 77.4 |
| 61 | 43.9 | 35.6 | 53.4 |

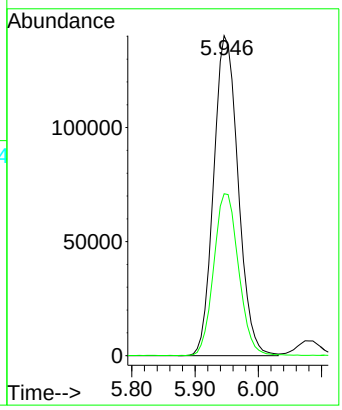





#33
1,2-Dichloroethane-d4
Concen: 156.114 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 65 Resp: 37721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 103.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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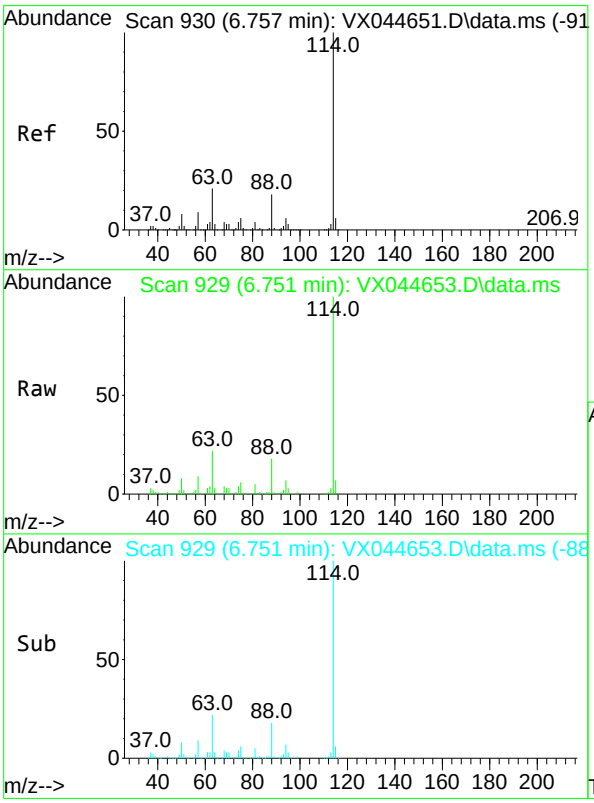
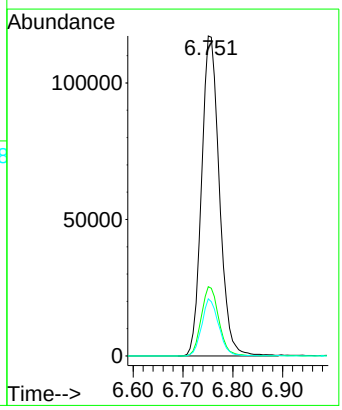
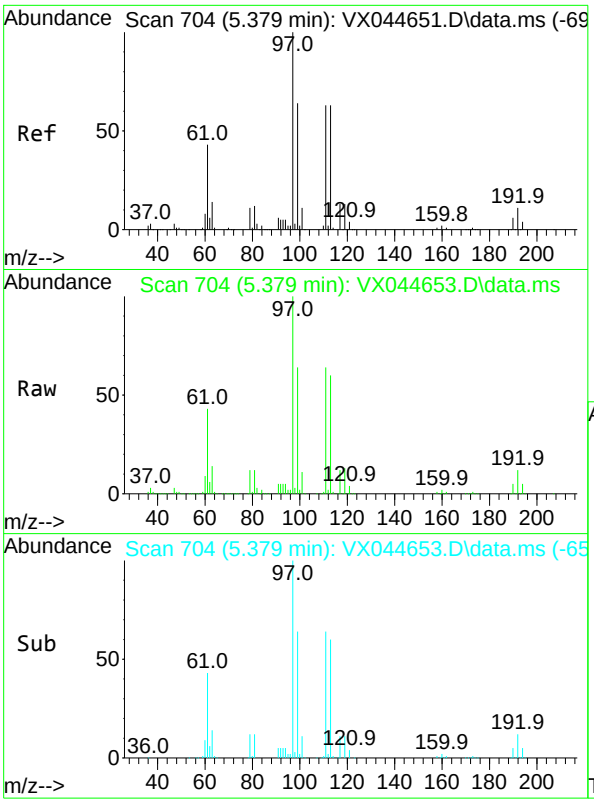



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:114 Resp: 290219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 43.0 |
| 88 | 17.8 | 0.0 | 35.4 |

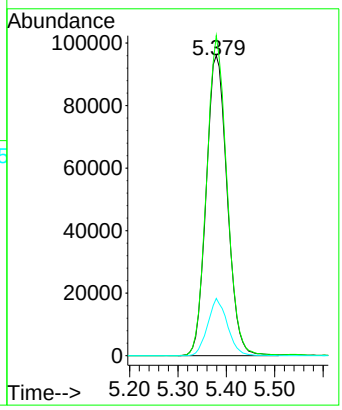





#35
Dibromofluoromethane
Concen: 157.288 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:113 Resp: 28999

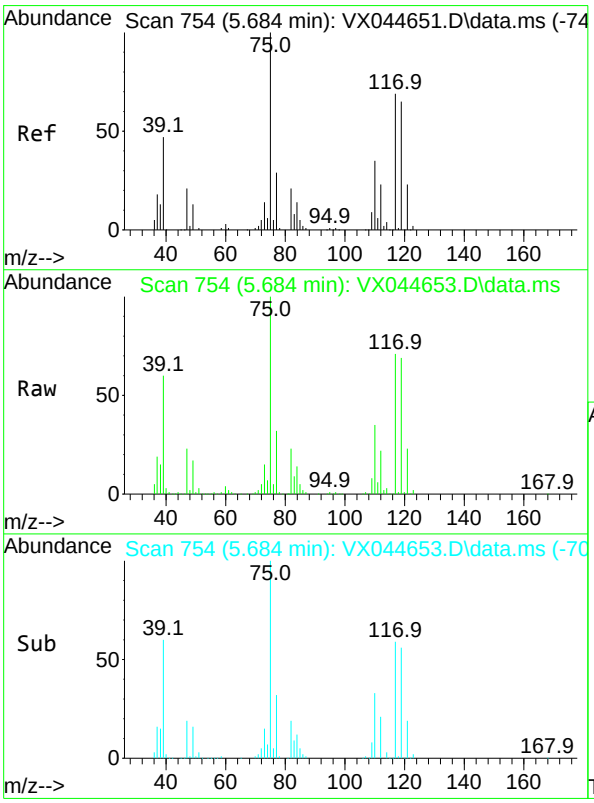
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 81.6 | 122.4 |
| 192 | 17.9 | 14.4 | 21.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

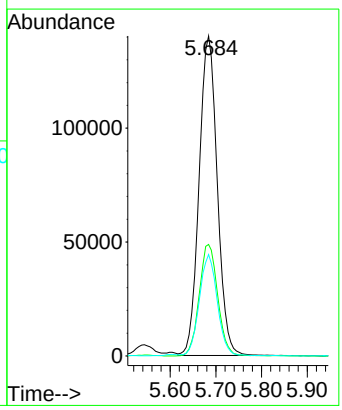
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

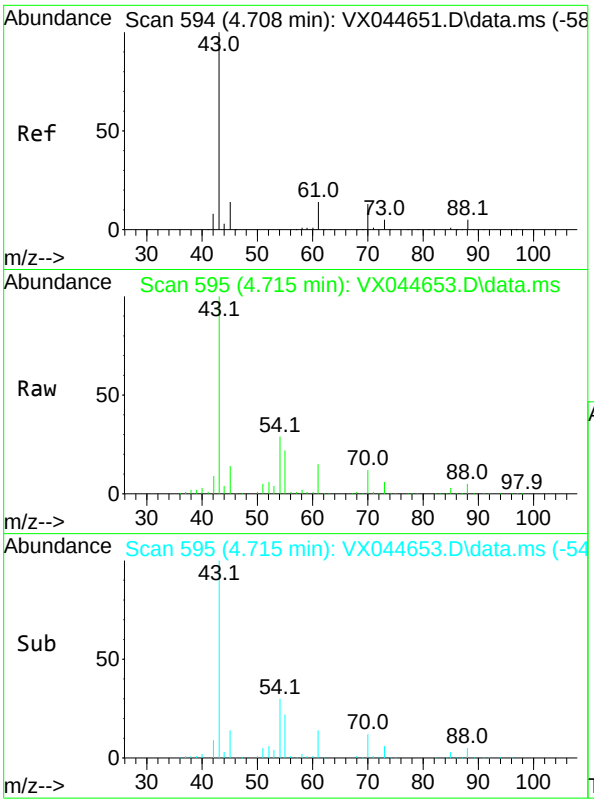



#36
1,1-Dichloropropene
Concen: 150.517 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 75 Resp: 386304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.5 | 17.9 | 53.8 |
| 77 | 31.1 | 24.5 | 36.7 |






#37
Ethyl Acetate
Concen: 158.764 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

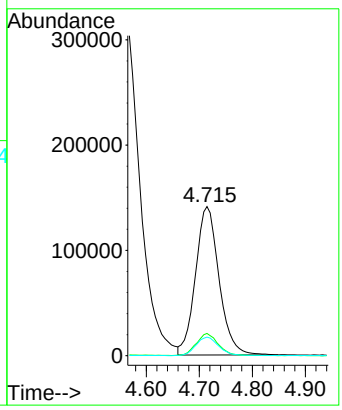
Tgt Ion: 43 Resp: 43392

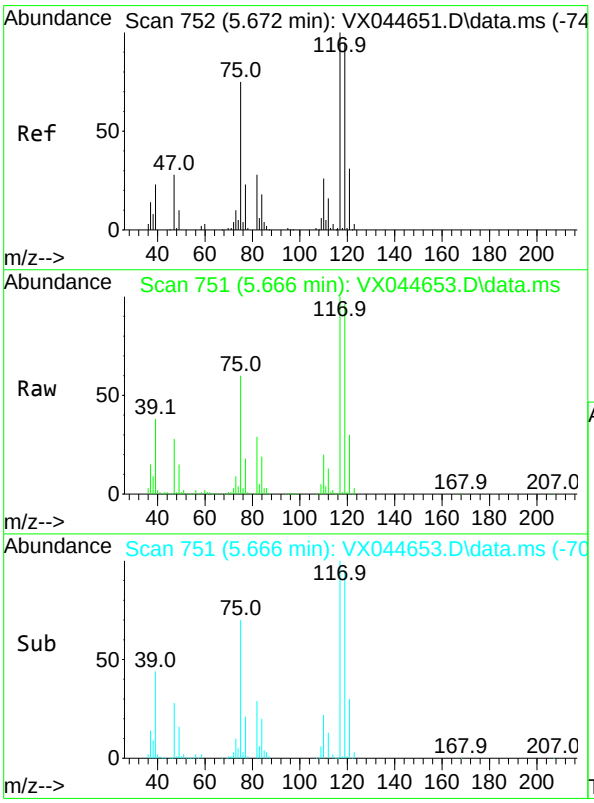
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.0 | 10.9 | 16.3 |
| 70 | 12.3 | 10.1 | 15.1 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

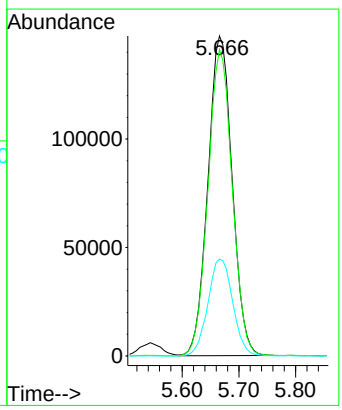


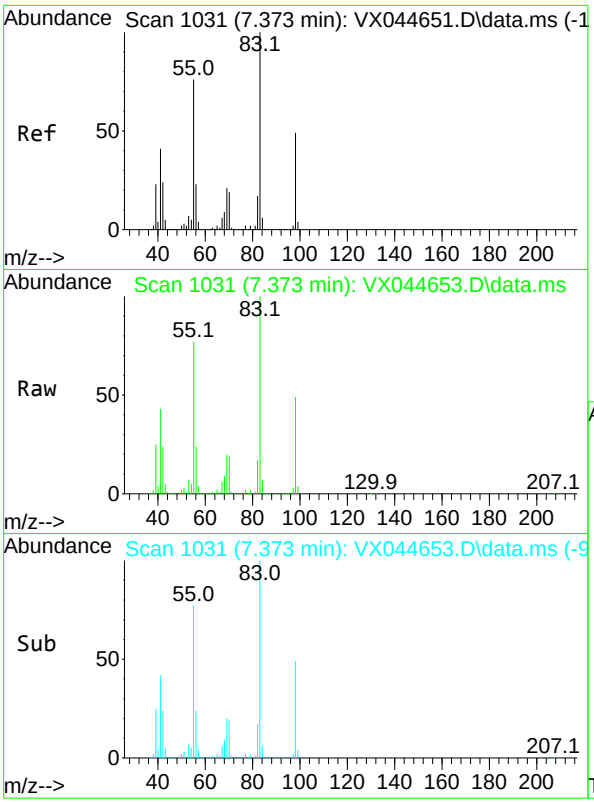




#38
Carbon Tetrachloride
Concen: 151.528 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:117 Resp: 437442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.8 | 76.0 | 114.0 |
| 121 | 30.3 | 24.6 | 36.8 |

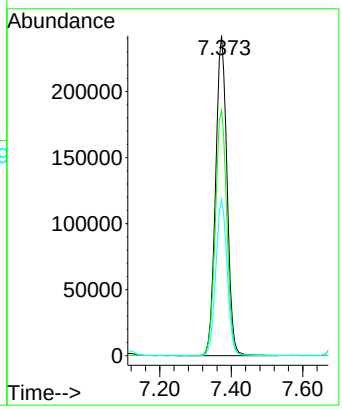





#39
Methylcyclohexane
Concen: 157.021 ug/l
RT: 7.373 min Scan# 1(
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 83 Resp: 53497(

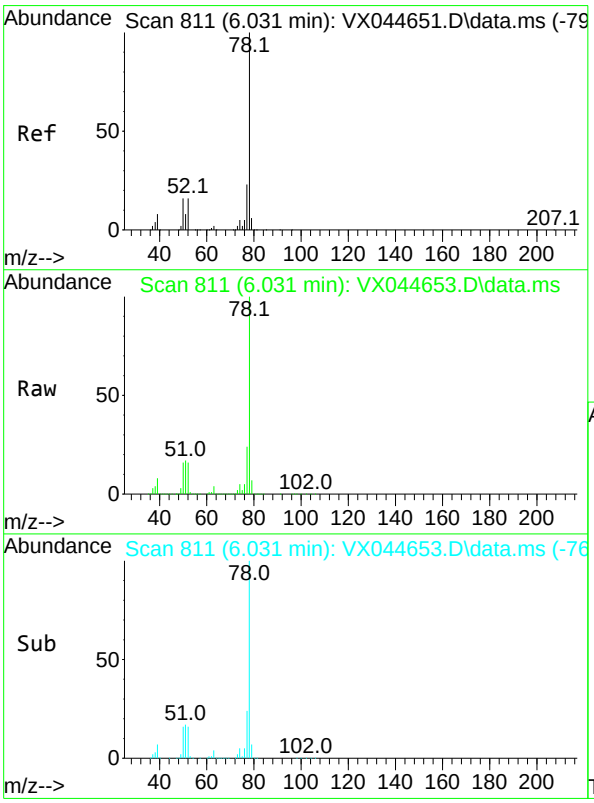
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.6 | 60.5 | 90.7 |
| 98 | 49.0 | 39.0 | 58.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

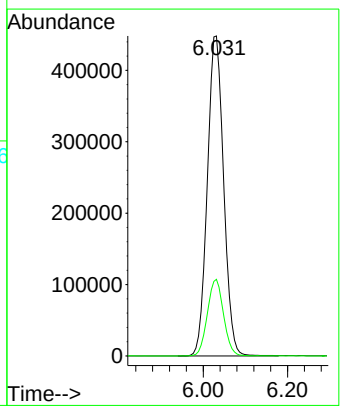
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

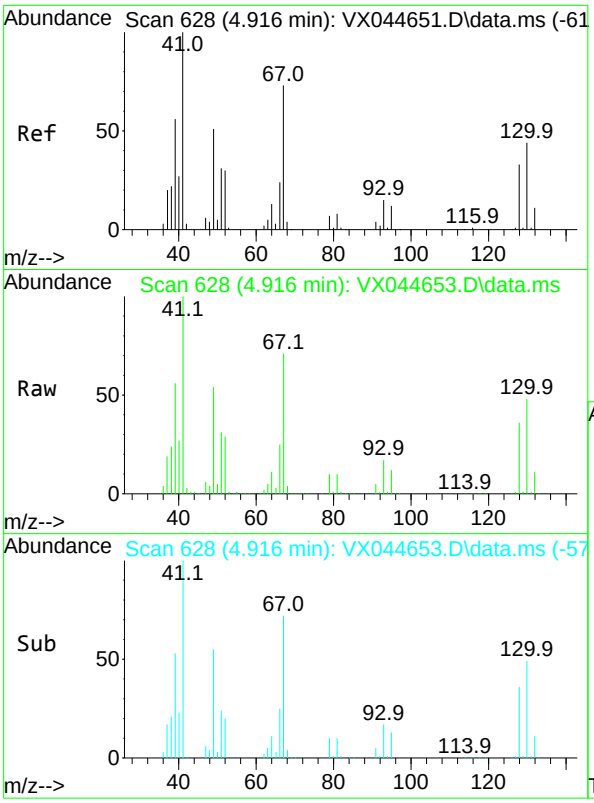



#40
Benzene
Concen: 151.523 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 78 Resp: 1205057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 18.7 | 28.1 |

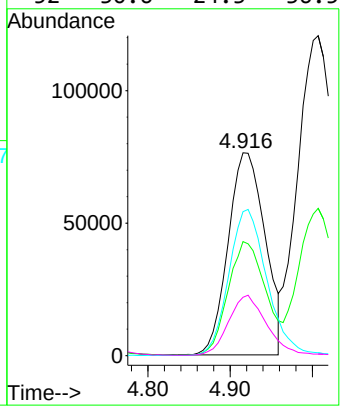





#41
Methacrylonitrile
Concen: 151.900 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 41 Resp: 23860

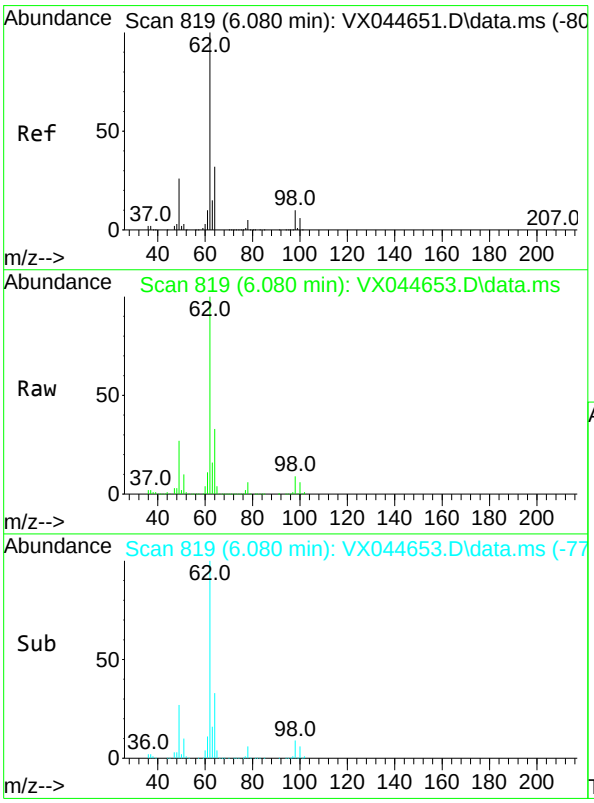
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.9 | 44.4 | 66.6 |
| 67 | 74.8 | 60.6 | 90.8 |
| 52 | 30.6 | 24.3 | 36.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations APPROVED**

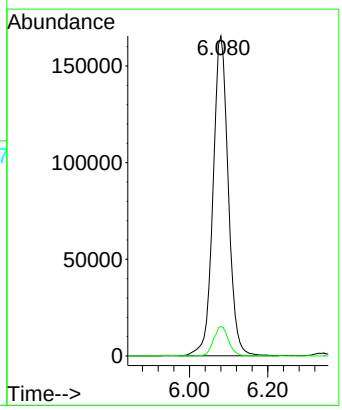
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

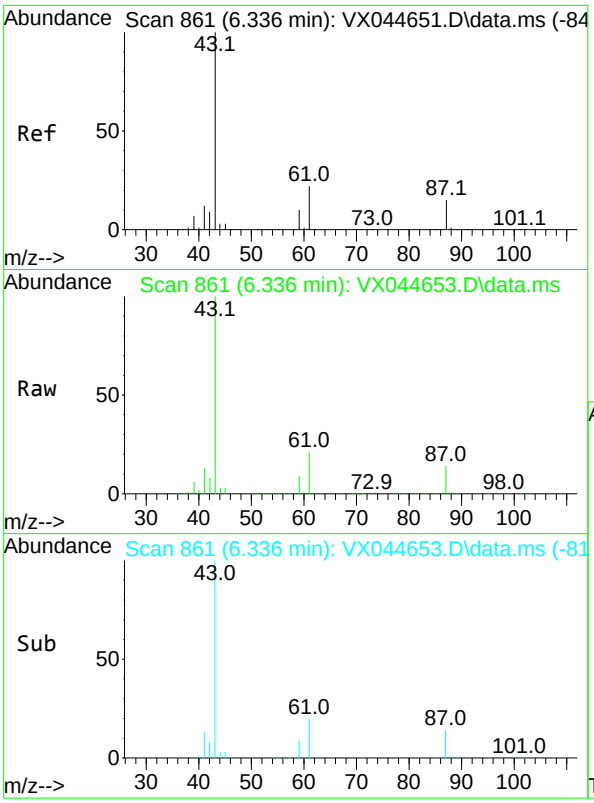



#42
1,2-Dichloroethane
Concen: 153.782 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 62 Resp: 446380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.1 | 0.0 | 19.4 |






#43
Isopropyl Acetate
Concen: 151.528 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 76186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.8 | 16.6 | 24.8 |
| 87 | 14.0 | 11.0 | 16.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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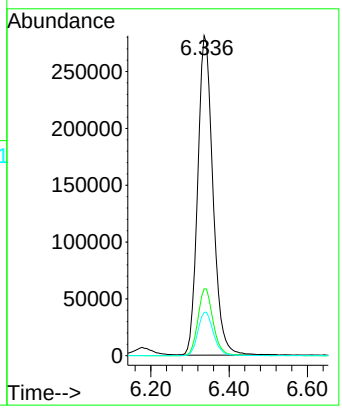
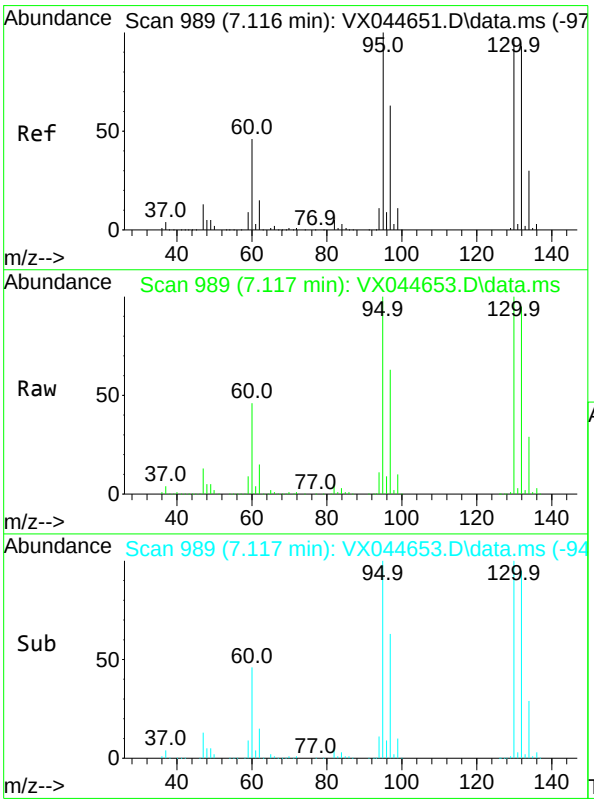
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

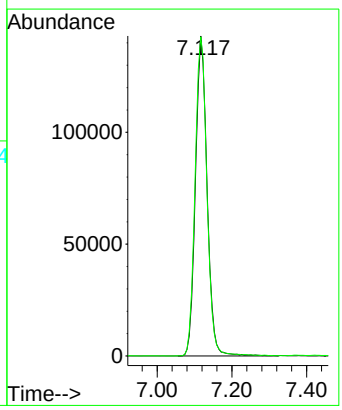


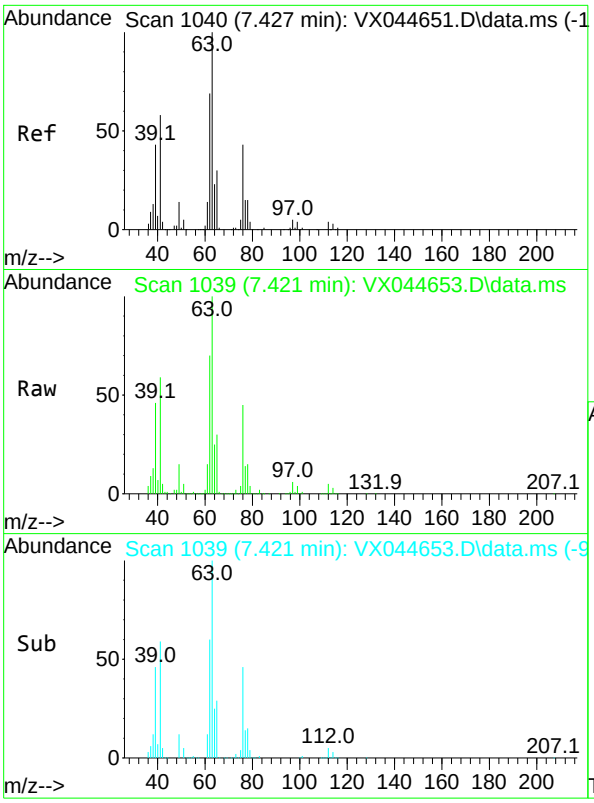




#44
Trichloroethene
Concen: 161.735 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:130 Resp: 309226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.7 | 0.0 | 208.2 |

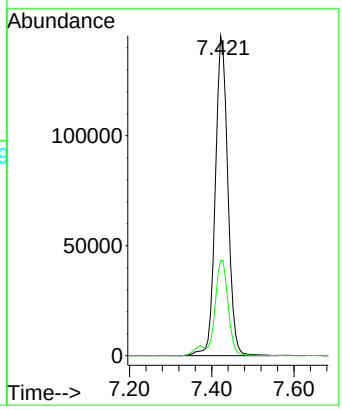





#45
1,2-Dichloropropane
Concen: 154.175 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 63 Resp: 30864

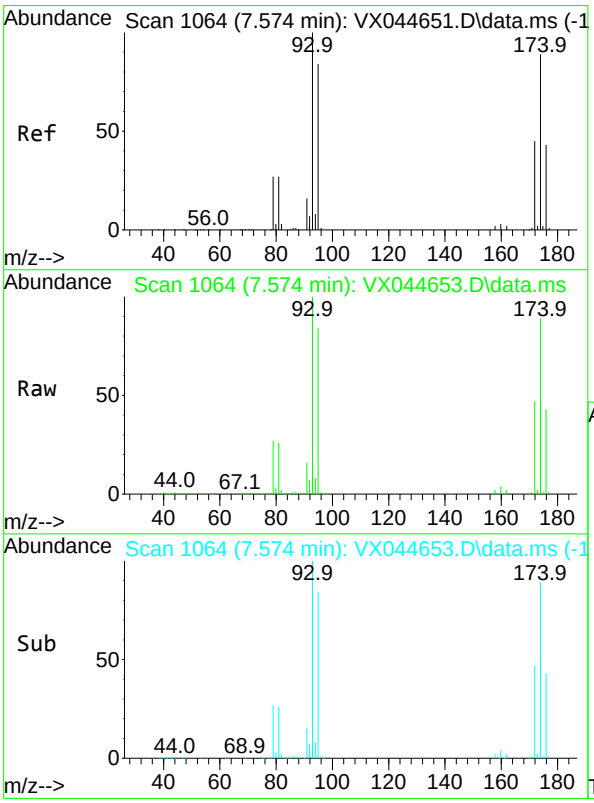
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.7 | 24.2 | 36.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

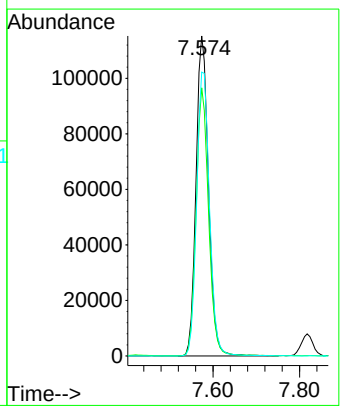
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

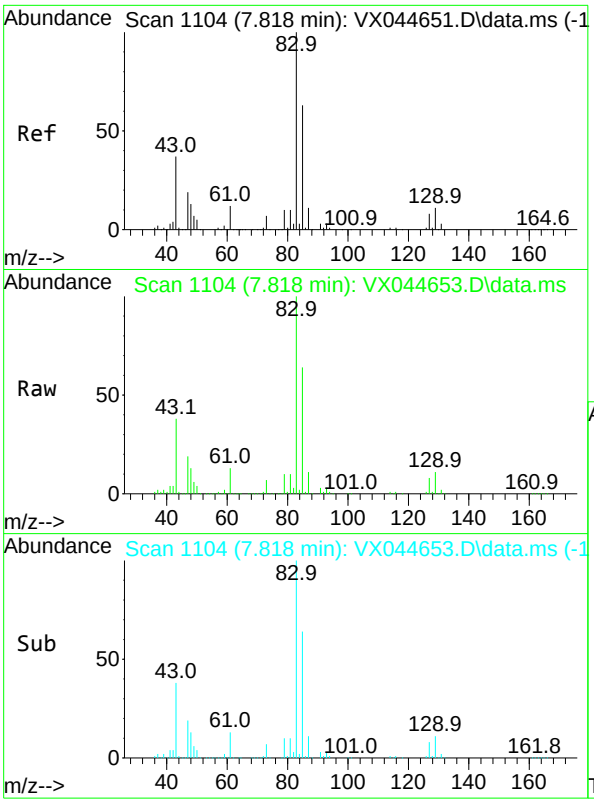



#46
Dibromomethane
Concen: 152.021 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 93 Resp: 231674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.6 | 66.4 | 99.6 |
| 174 | 91.2 | 72.0 | 108.0 |

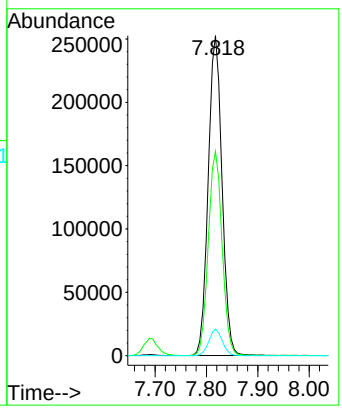





#47
Bromodichloromethane
Concen: 150.924 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 83 Resp: 47168

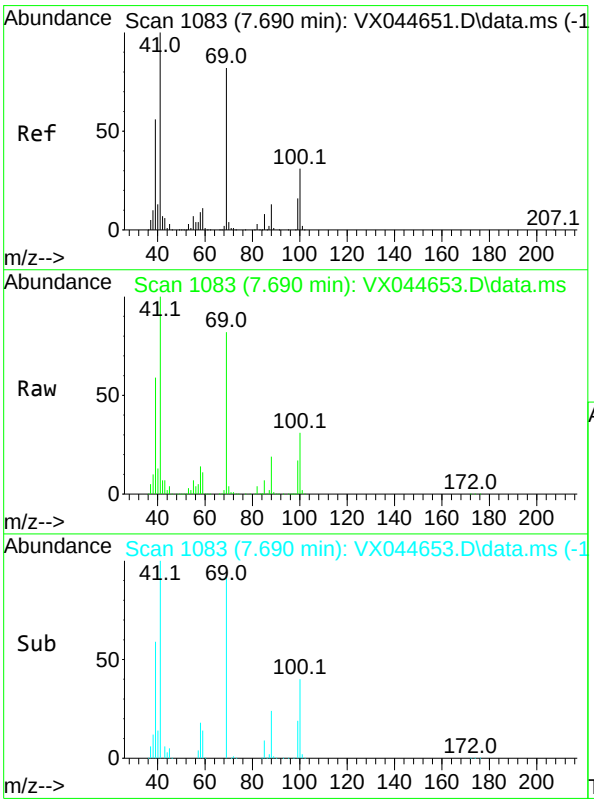
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 50.1 | 75.1 |
| 127 | 8.3 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

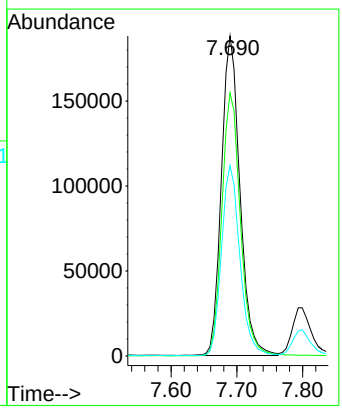
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

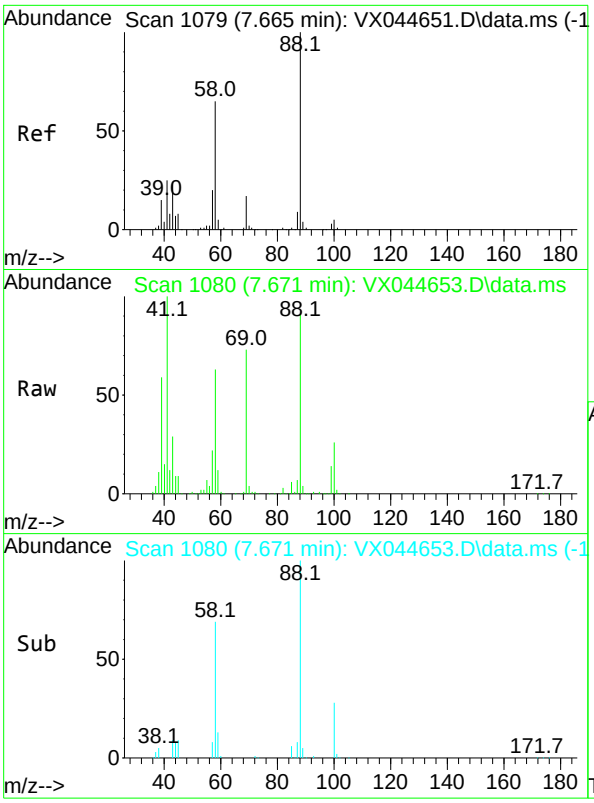



#48
Methyl methacrylate
Concen: 157.946 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 41 Resp: 368626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 82.4 | 66.8 | 100.2 |
| 39 | 59.1 | 47.4 | 71.0 |






#49
1,4-Dioxane
Concen: 3005.585 ug/l
RT: 7.671 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 88 Resp: 14635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.0 | 27.0 | 40.4 |
| 58 | 70.7 | 55.8 | 83.8 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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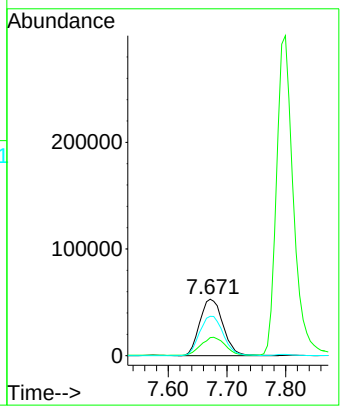
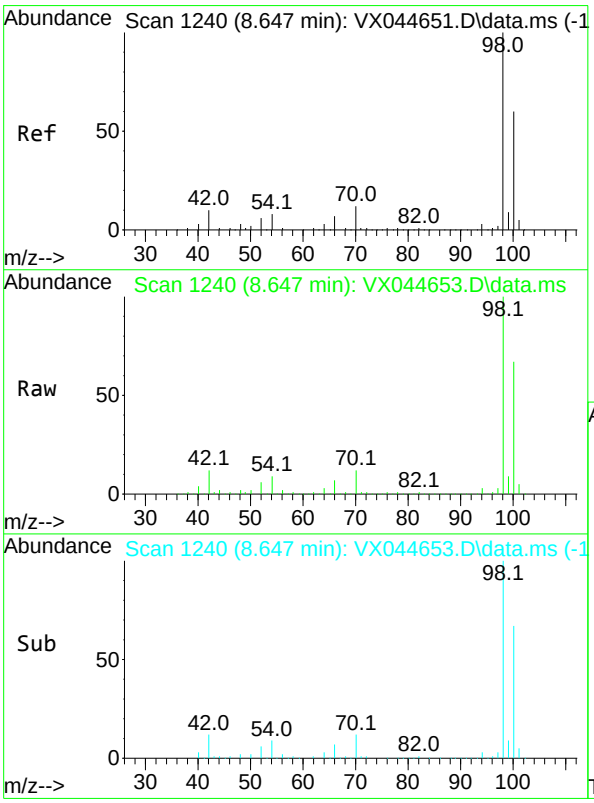
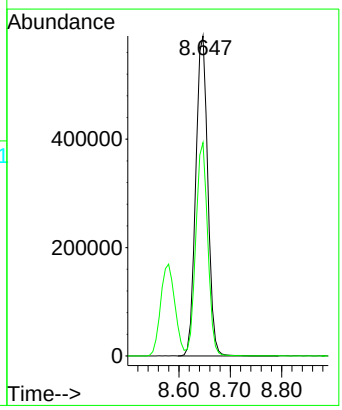


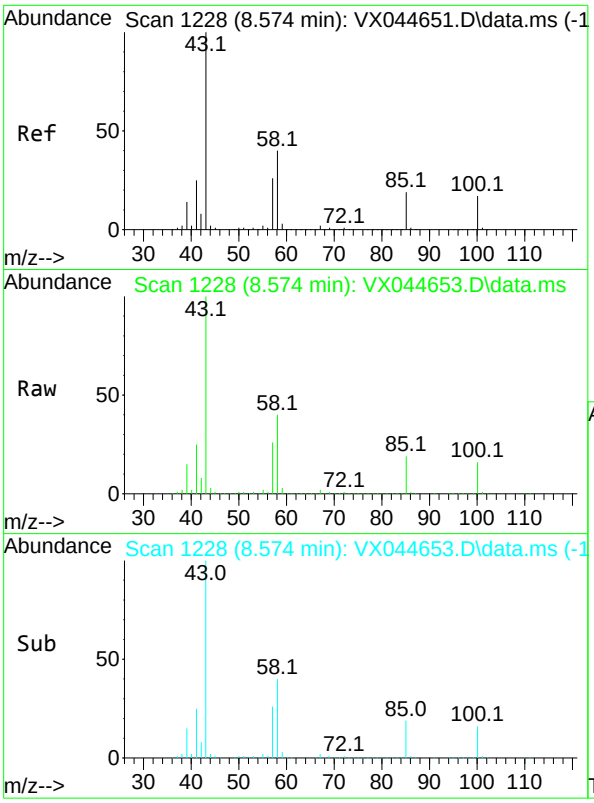




#50
Toluene-d8
Concen: 149.572 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 98 Resp: 961550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.1 | 53.2 | 79.8 |






#51
4-Methyl-2-Pentanone
Concen: 717.818 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

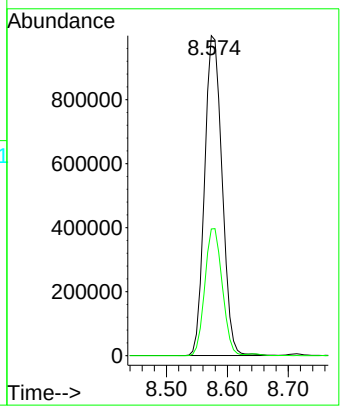
Tgt Ion: 43 Resp: 199449

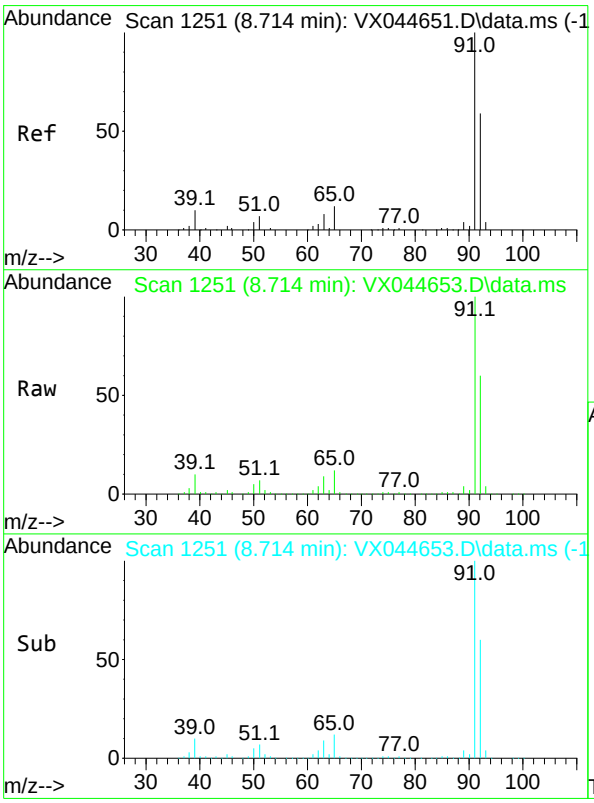
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.7 | 31.9 | 47.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

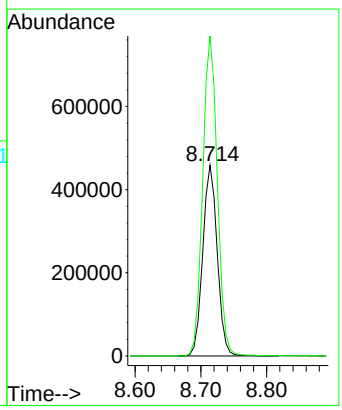


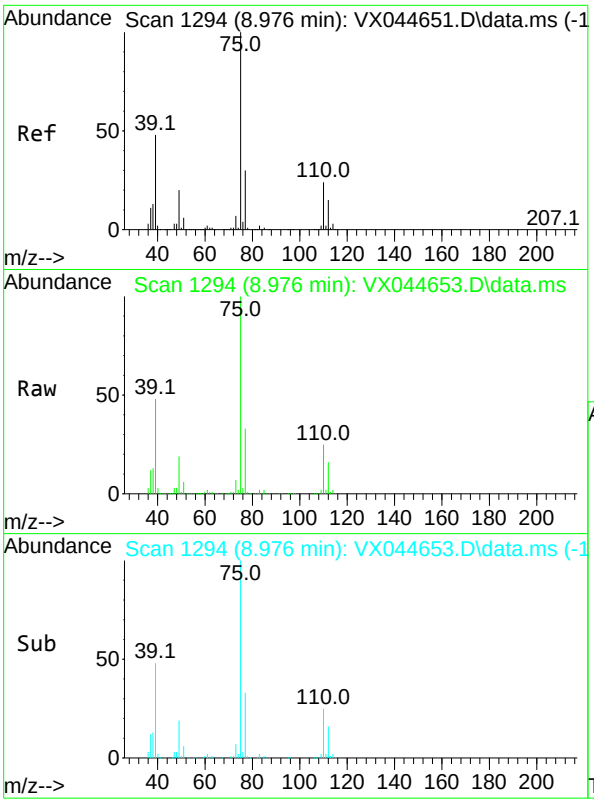




#52
Toluene
Concen: 143.719 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 92 Resp: 699585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.9 | 135.7 | 203.5 |

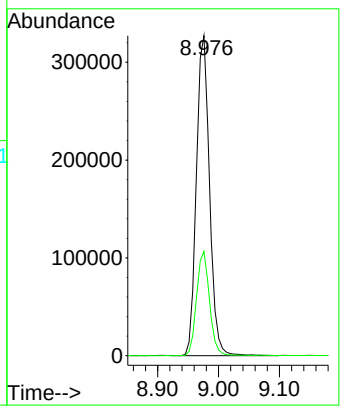





#53
t-1,3-Dichloropropene
Concen: 151.880 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 75 Resp: 49041

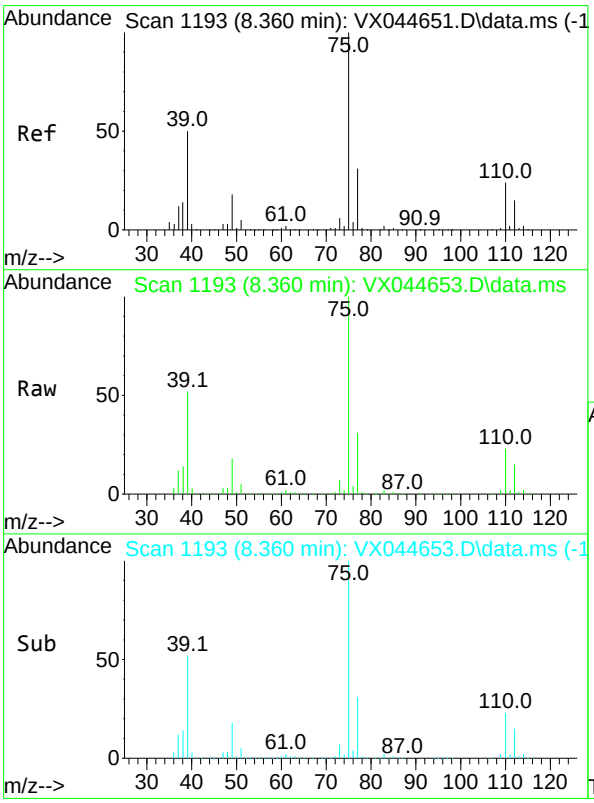
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 24.4 | 36.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

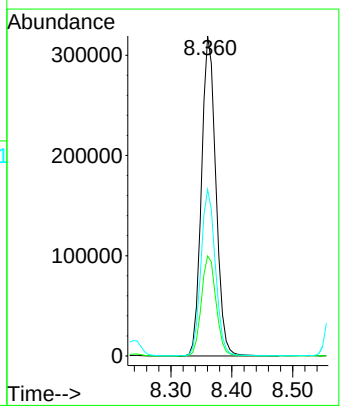
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

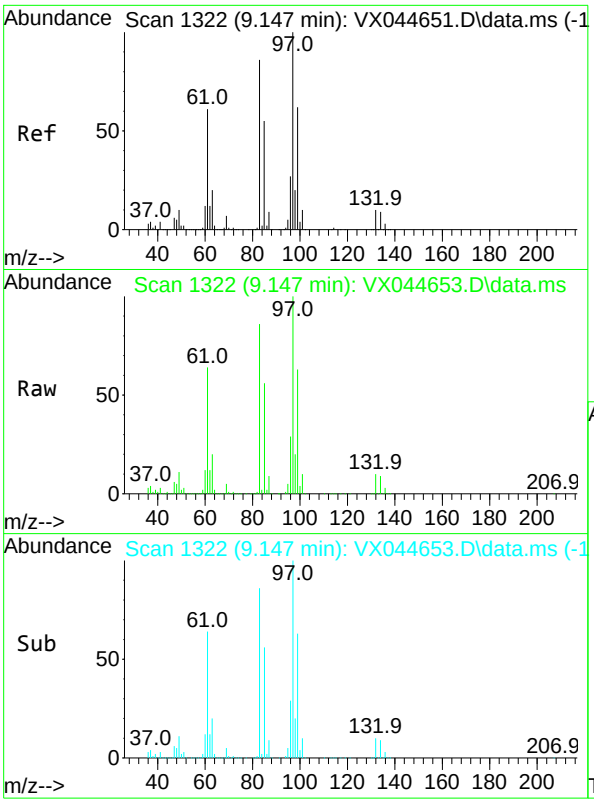



#54
cis-1,3-Dichloropropene
Concen: 149.891 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 75 Resp: 524796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.2 | 25.1 | 37.7 |
| 39 | 52.0 | 40.3 | 60.5 |

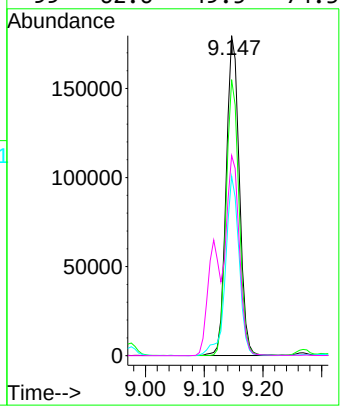





#55
1,1,2-Trichloroethane
Concen: 141.923 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 97 Resp: 27950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.2 | 68.8 | 103.2 |
| 85 | 56.0 | 43.7 | 65.5 |
| 99 | 62.6 | 49.5 | 74.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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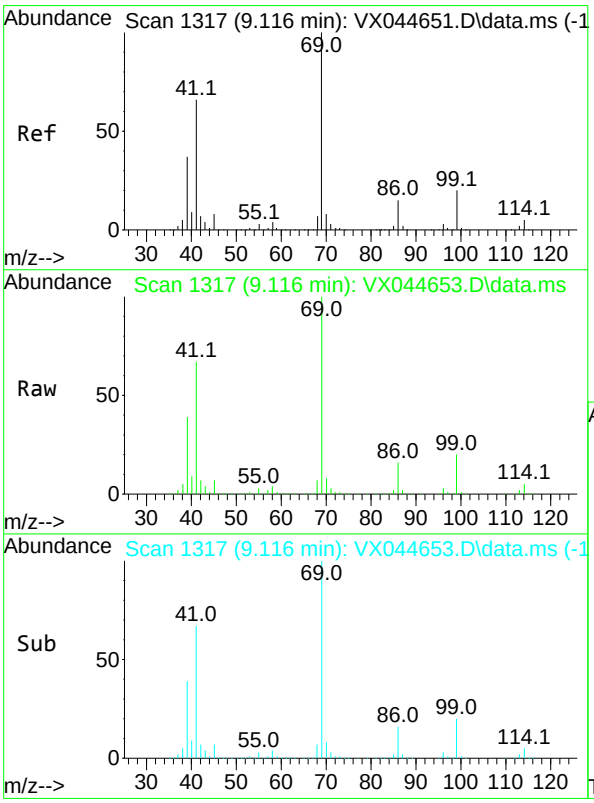
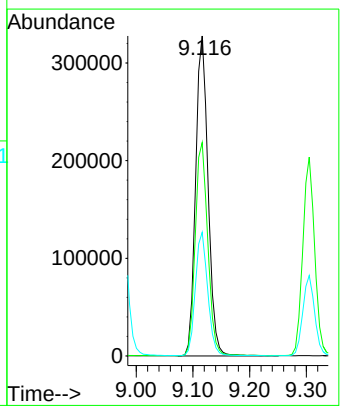
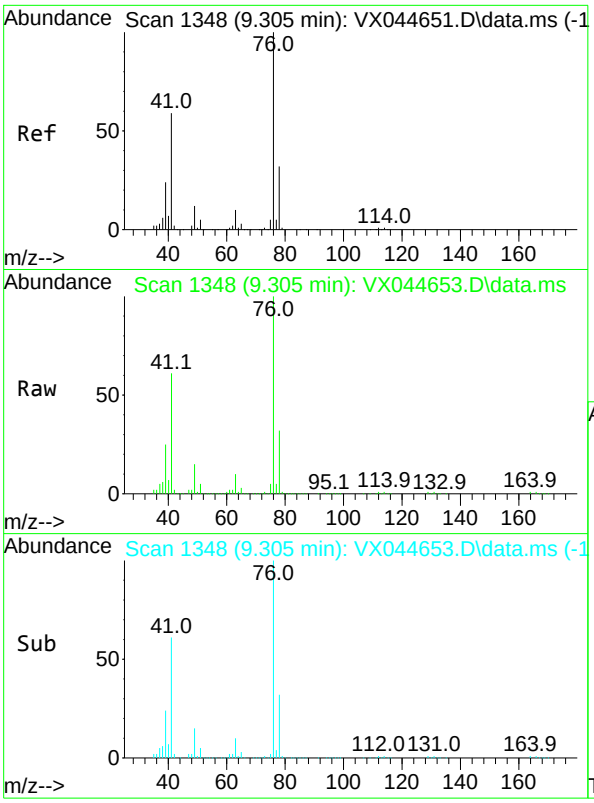



#56
Ethyl methacrylate
Concen: 147.609 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 69 Resp: 499842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.9 | 53.2 | 79.8 |
| 39 | 38.0 | 30.2 | 45.2 |

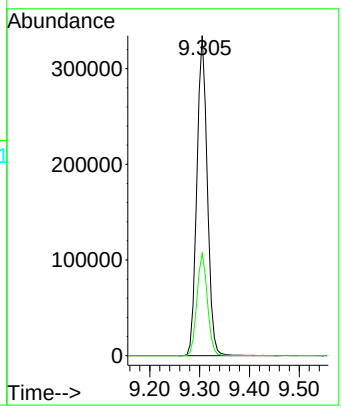





#57
1,3-Dichloropropane
Concen: 144.720 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 76 Resp: 48534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.1 | 26.0 | 39.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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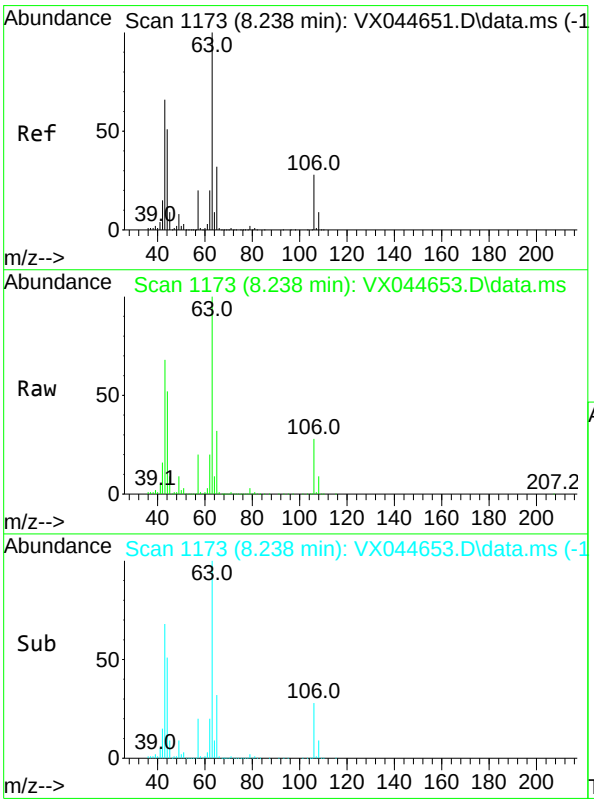
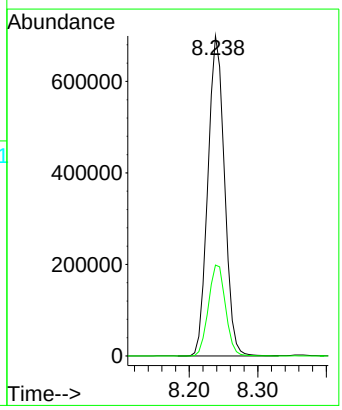
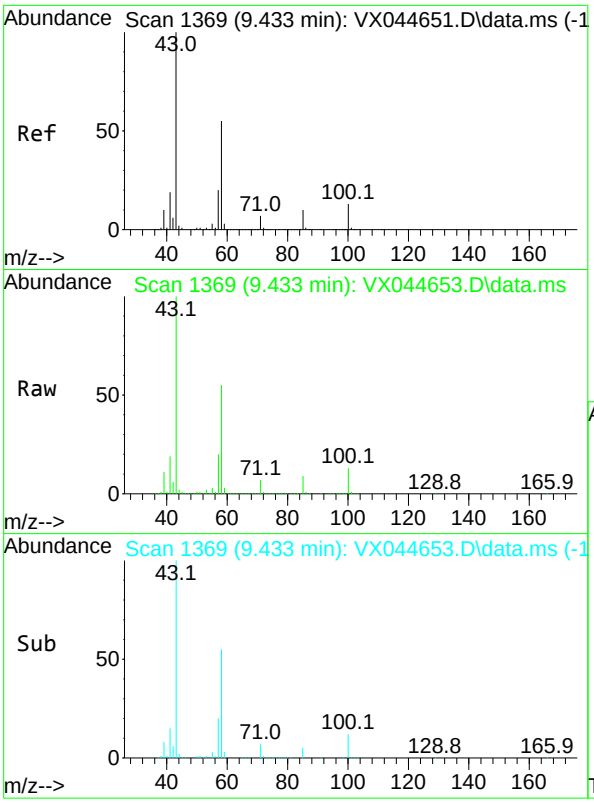



#58
2-Chloroethyl Vinyl ether
Concen: 708.825 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 63 Resp: 1178391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.1 | 23.0 | 34.6 |






#59
2-Hexanone
Concen: 725.401 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 148286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.1 | 27.8 | 83.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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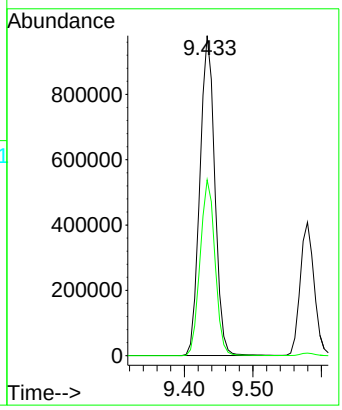
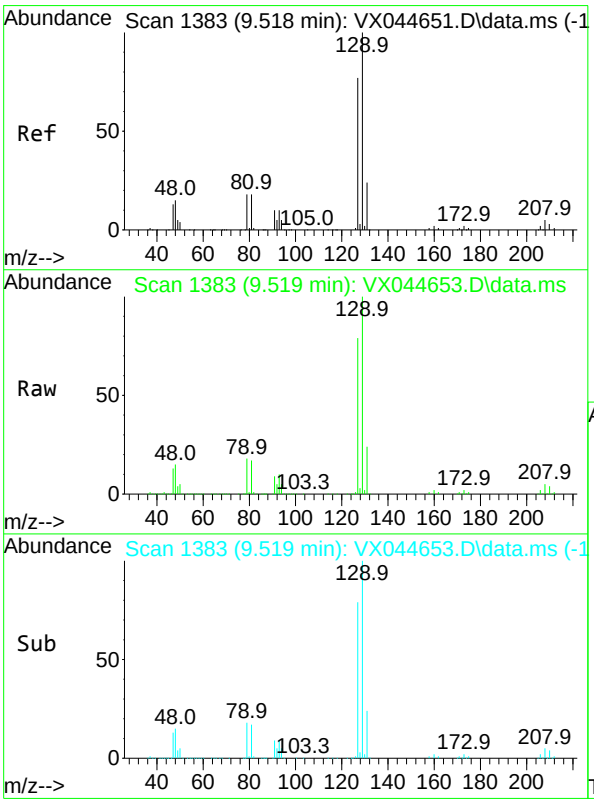
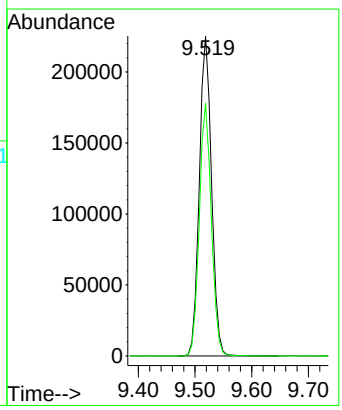


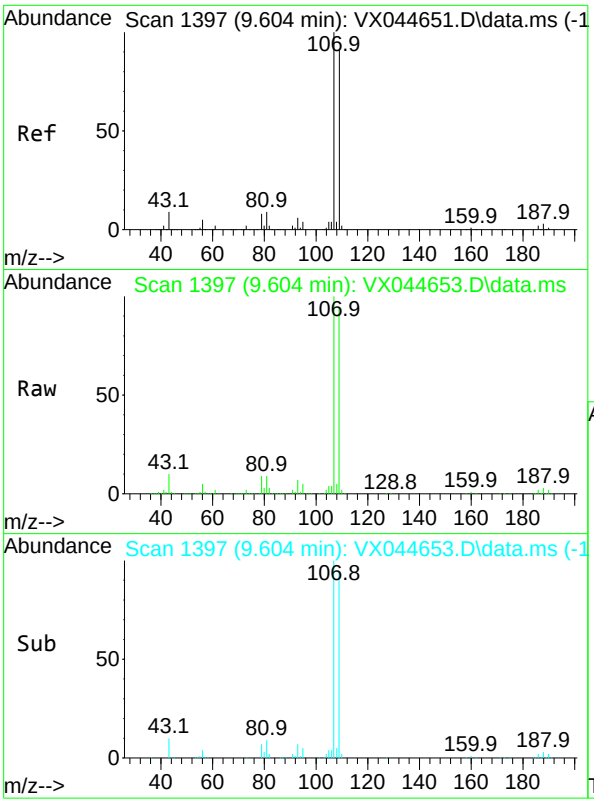




#60
Dibromochloromethane
Concen: 145.333 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:129 Resp: 335937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 38.5 | 115.5 |

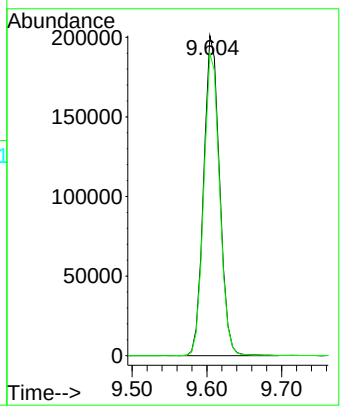





#61
1,2-Dibromoethane
Concen: 143.893 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:107 Resp: 29698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.6 | 75.3 | 112.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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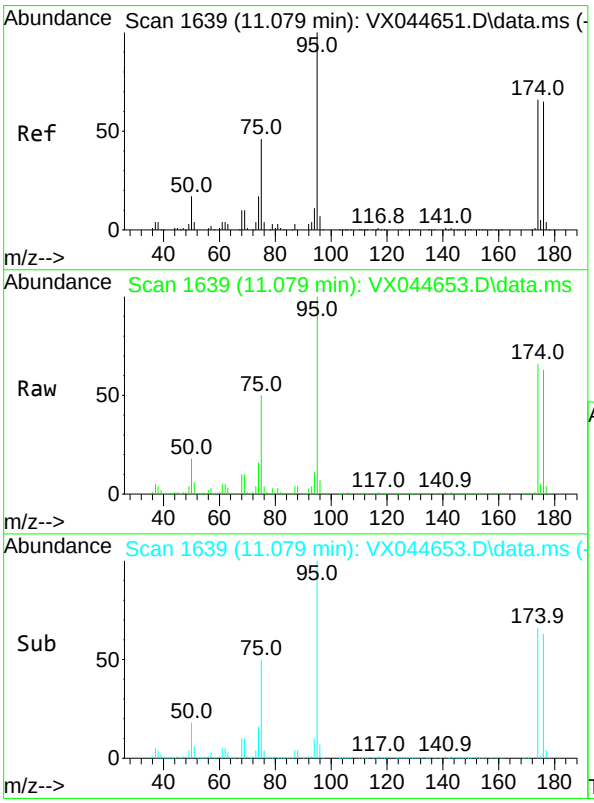
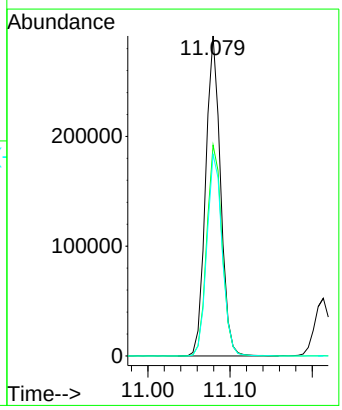
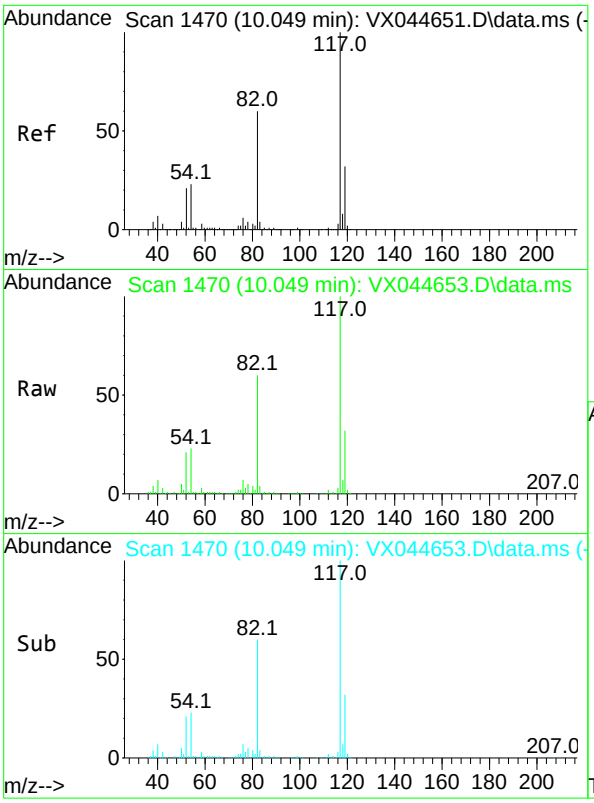



#62
4-Bromofluorobenzene
Concen: 153.105 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 95 Resp: 366922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.5 | 0.0 | 133.0 |
| 176 | 64.4 | 0.0 | 129.4 |

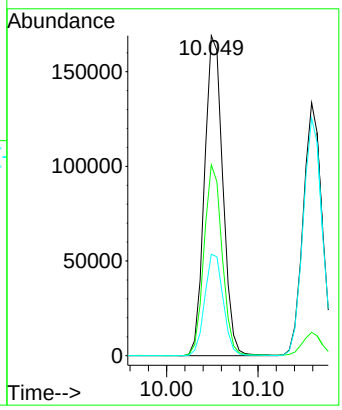





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:117 Resp: 23436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.6 | 47.6 | 71.4 |
| 119 | 31.7 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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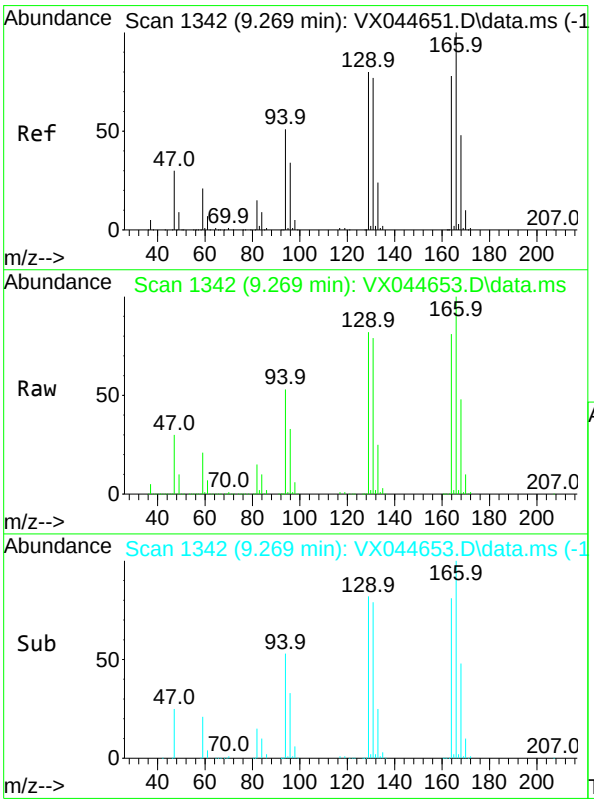
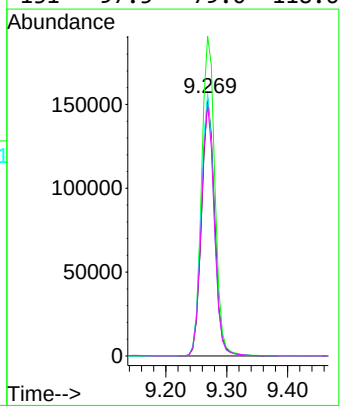
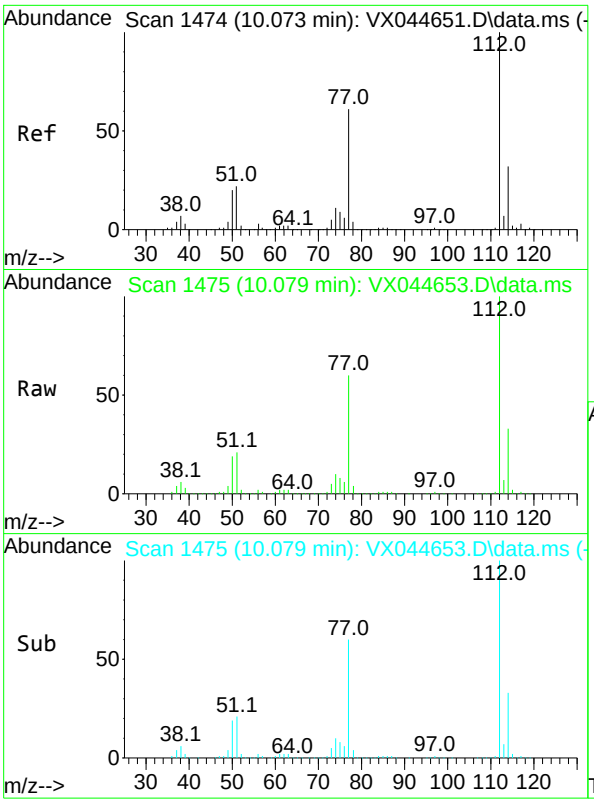



#64
Tetrachloroethene
Concen: 155.612 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:164 Resp: 229004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.0 | 102.0 | 153.0 |
| 129 | 101.7 | 81.1 | 121.7 |
| 131 | 97.5 | 79.0 | 118.6 |

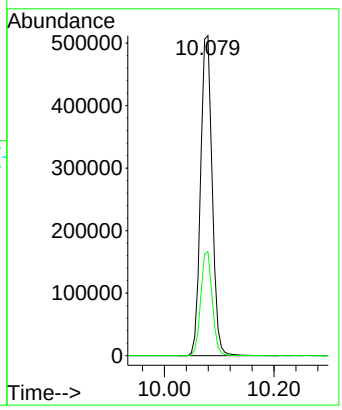





#65
Chlorobenzene
Concen: 150.697 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:112 Resp: 75016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.5 | 25.3 | 37.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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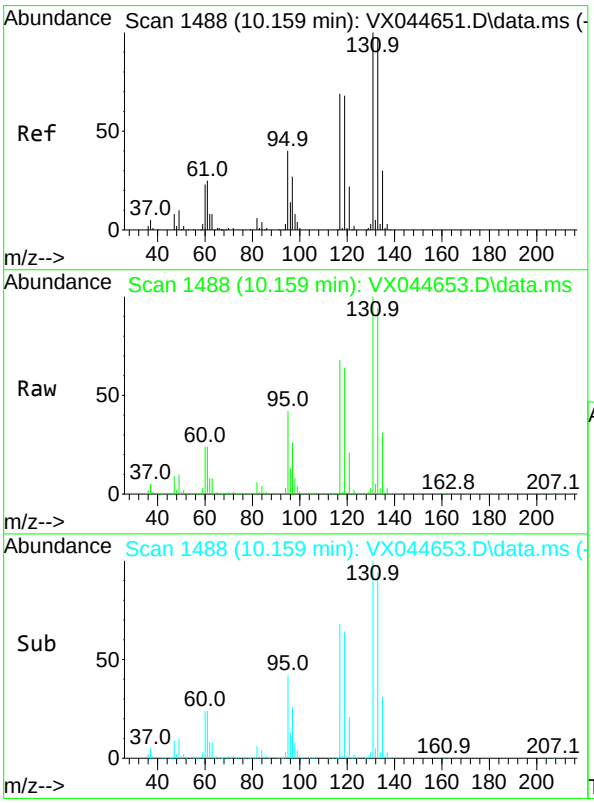
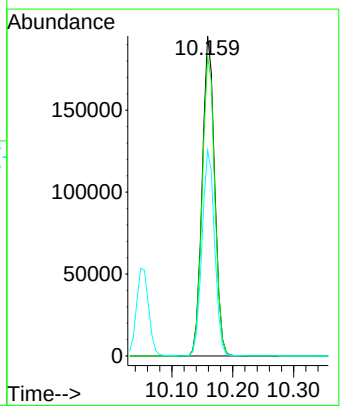
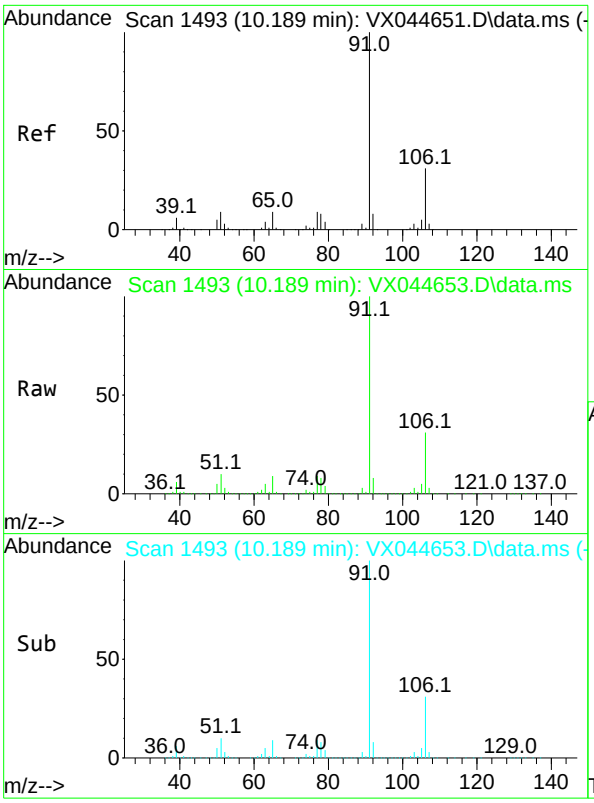



#66
1,1,1,2-Tetrachloroethane
Concen: 153.108 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:131 Resp: 276991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.0 | 47.8 | 143.3 |
| 119 | 65.5 | 33.4 | 100.2 |

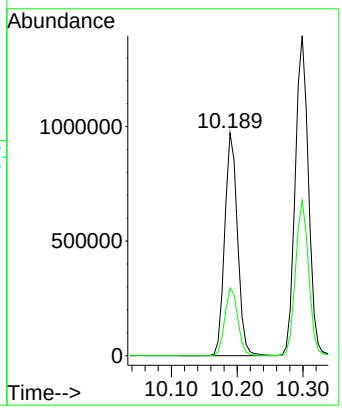





#67
Ethyl Benzene
Concen: 151.424 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 91 Resp: 131524

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.5 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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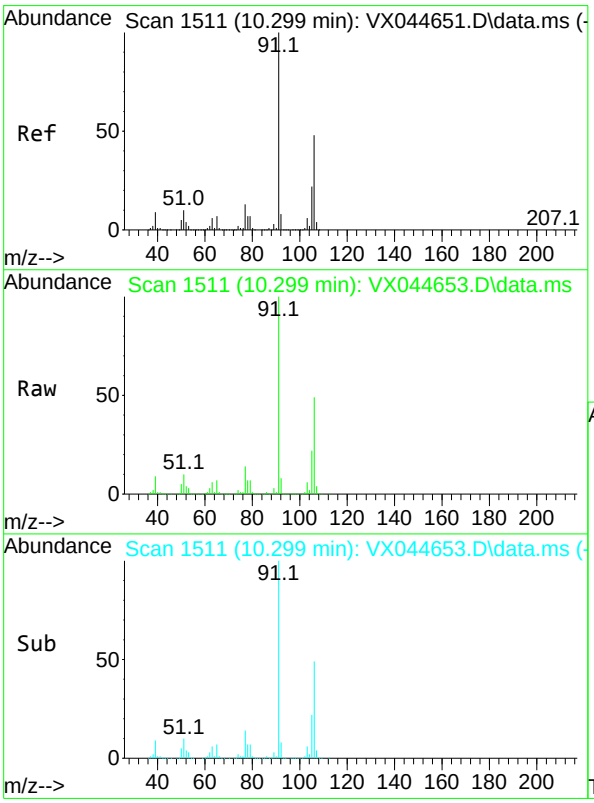
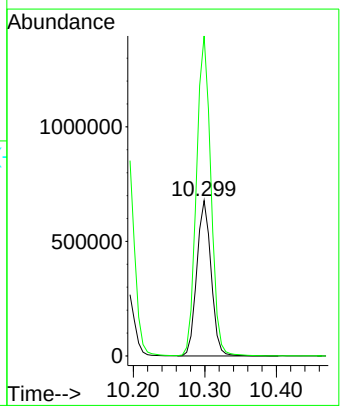
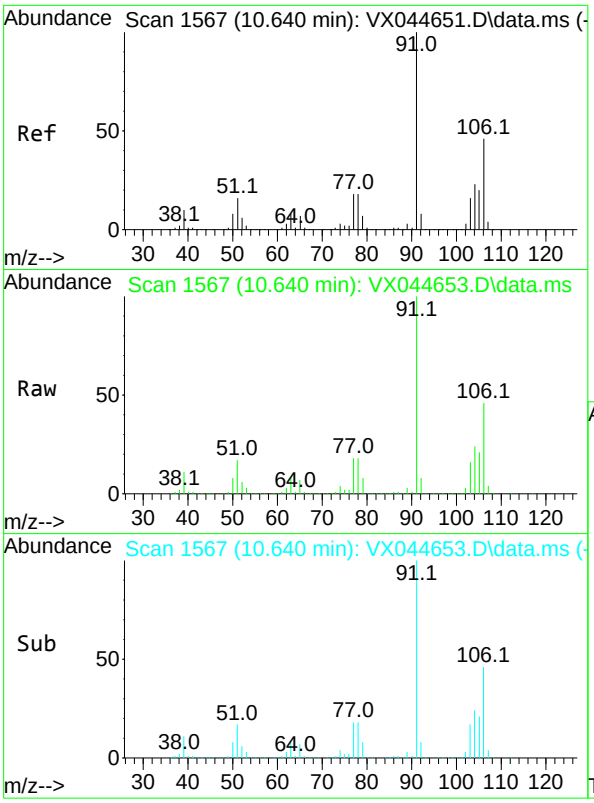



#68
m/p-Xylenes
Concen: 292.054 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:106 Resp: 941355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.8 | 166.4 | 249.6 |

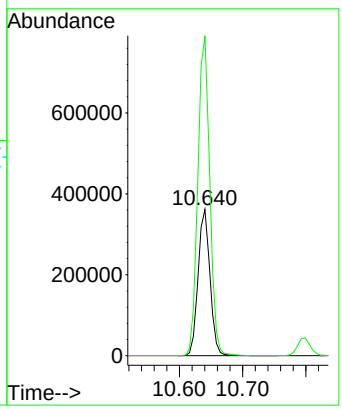





#69
o-Xylene
Concen: 145.386 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:106 Resp: 47390

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.9 | 108.7 | 326.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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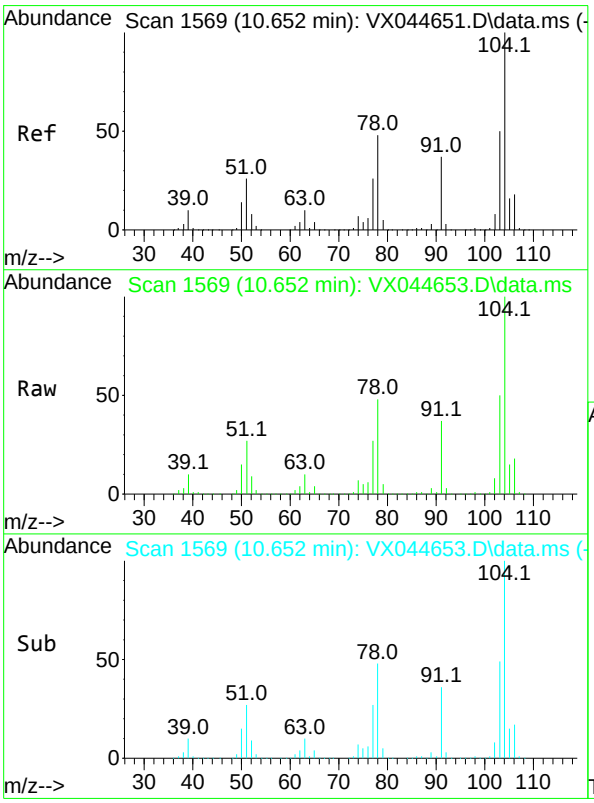
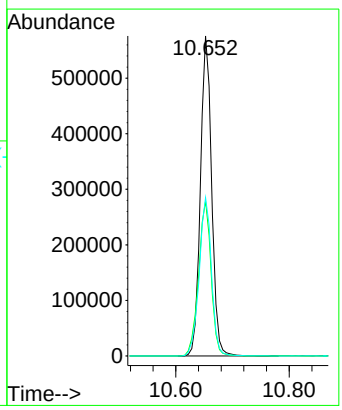
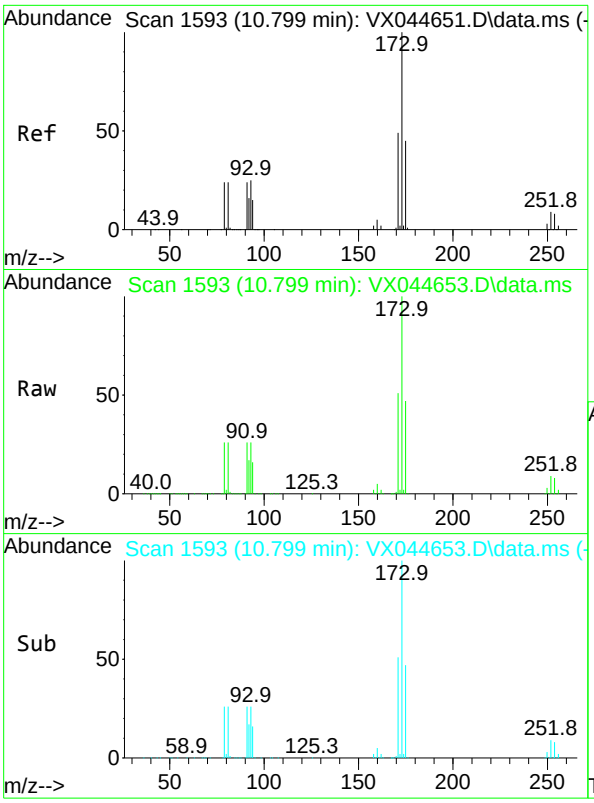



#70
Styrene
Concen: 150.660 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:104 Resp: 792889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.0 | 43.0 | 64.6 |
| 103 | 54.3 | 43.4 | 65.2 |

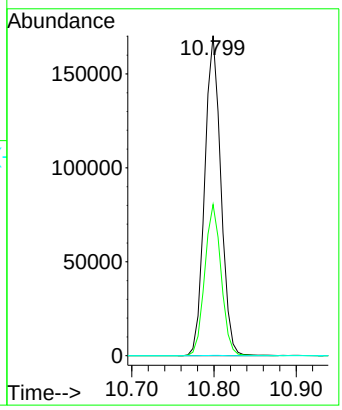





#71
Bromoform
Concen: 157.877 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:173 Resp: 23246

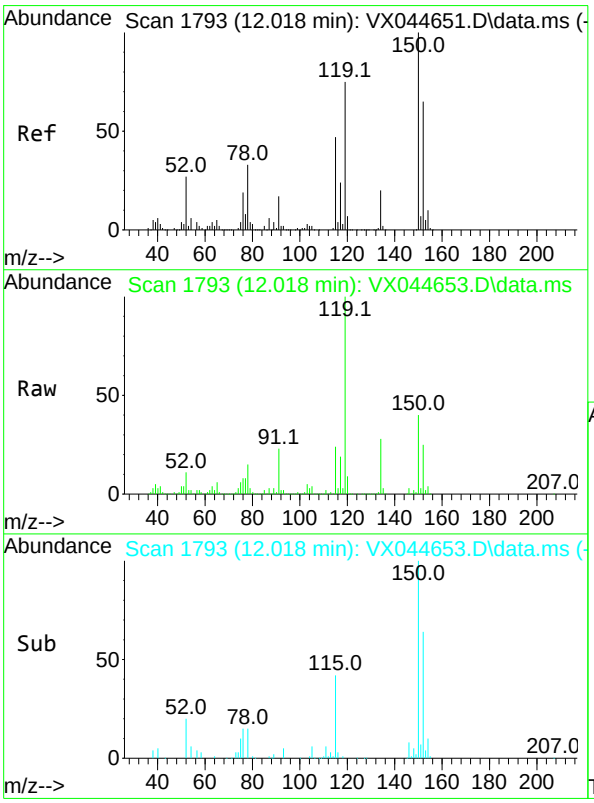
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

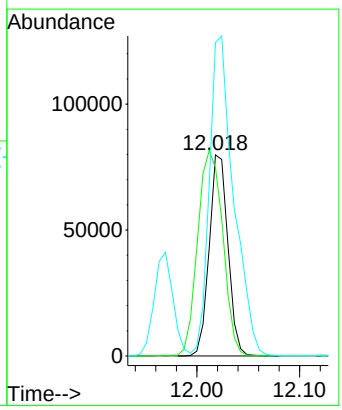
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

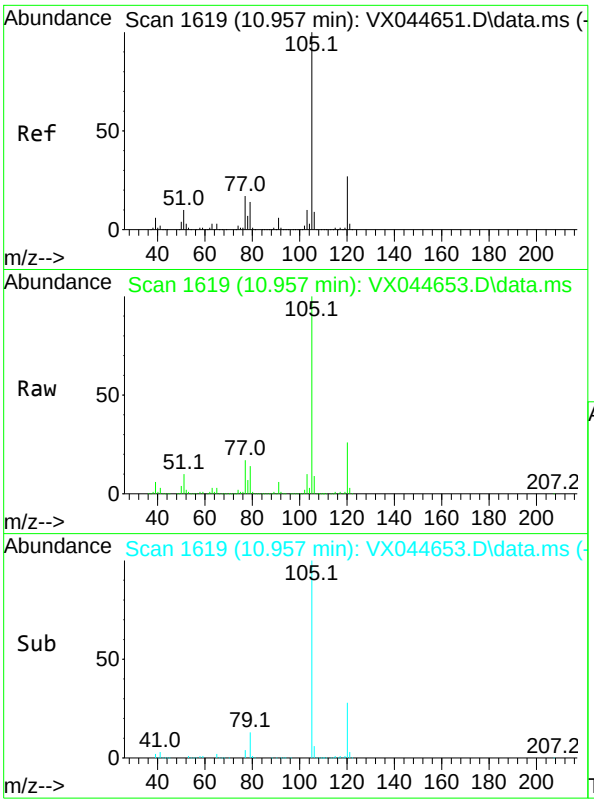



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:152 Resp: 100996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 137.3 | 43.8 | 131.4# |
| 150 | 206.7 | 0.0 | 347.8 |

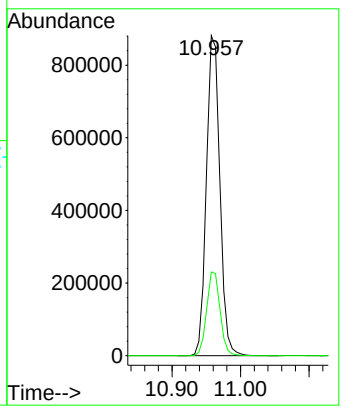





#73
Isopropylbenzene
Concen: 146.343 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:105 Resp: 120742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.2 | 13.2 | 39.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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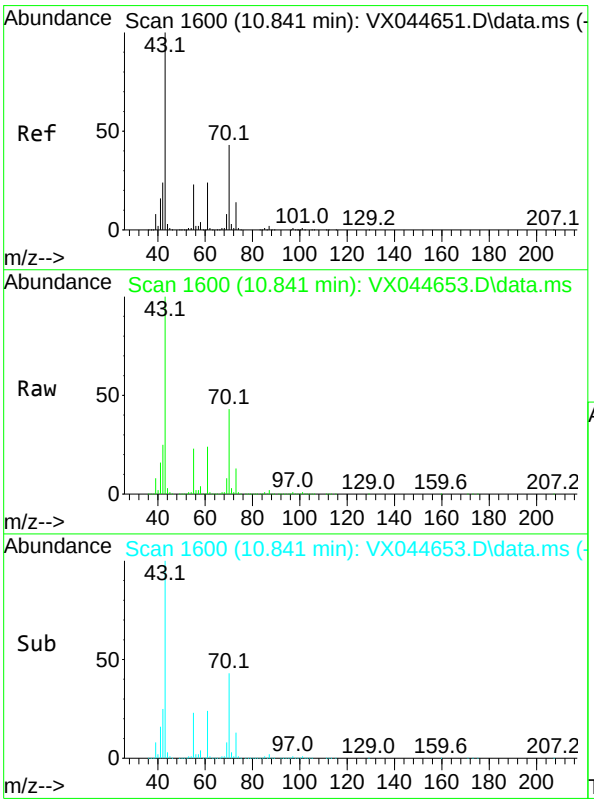
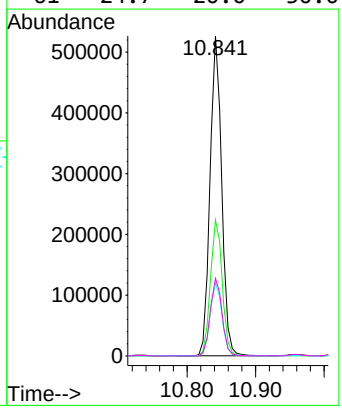
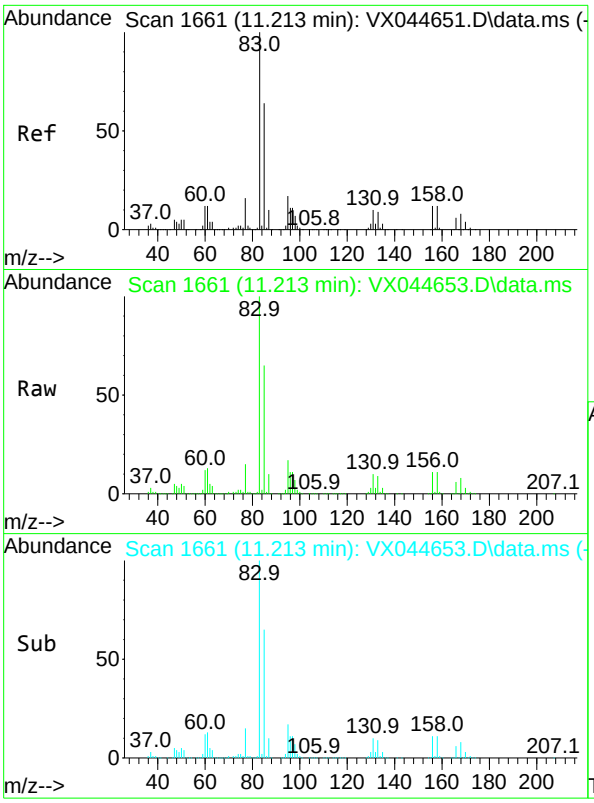



#74
N-amyl acetate
Concen: 153.069 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 622491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.3 | 35.2 | 52.8 |
| 55 | 23.3 | 19.0 | 28.4 |
| 61 | 24.7 | 20.0 | 30.0 |

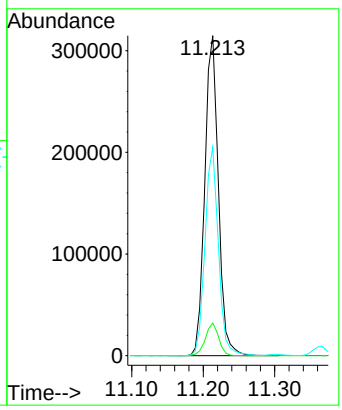





#75
1,1,2,2-Tetrachloroethane
Concen: 145.660 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 83 Resp: 41506

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.0 | 5.0 | 14.9 |
| 85 | 64.5 | 32.0 | 96.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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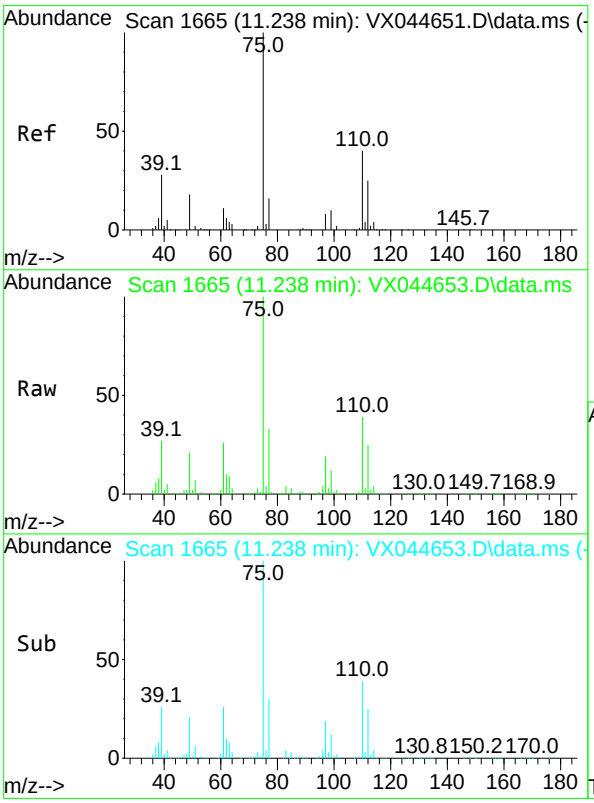
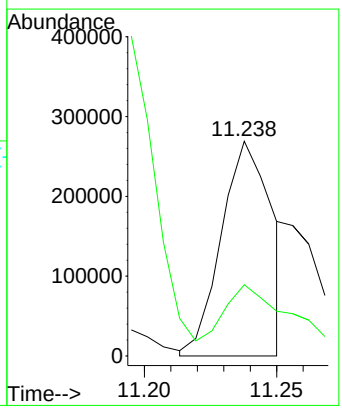
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

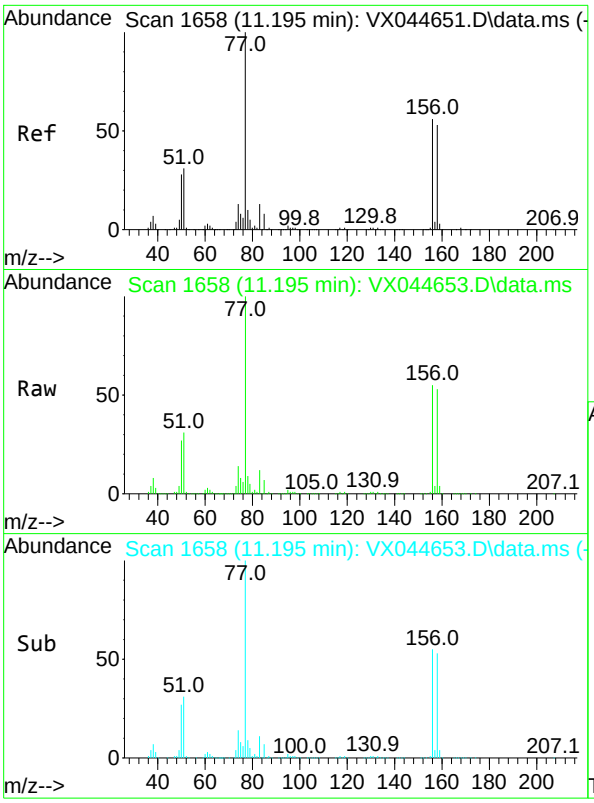



#76
1,2,3-Trichloropropane
Concen: 149.343 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 75 Resp: 356222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 45.8 | 23.4 | 70.2 |

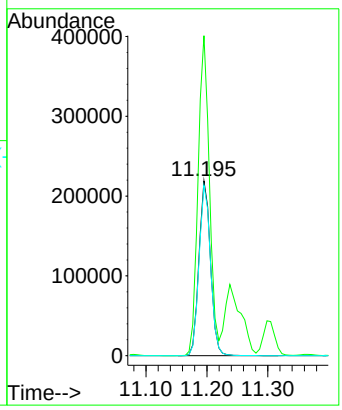





#77
Bromobenzene
Concen: 149.641 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:156 Resp: 28857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 180.4 | 90.3 | 271.0 |
| 158 | 97.5 | 48.4 | 145.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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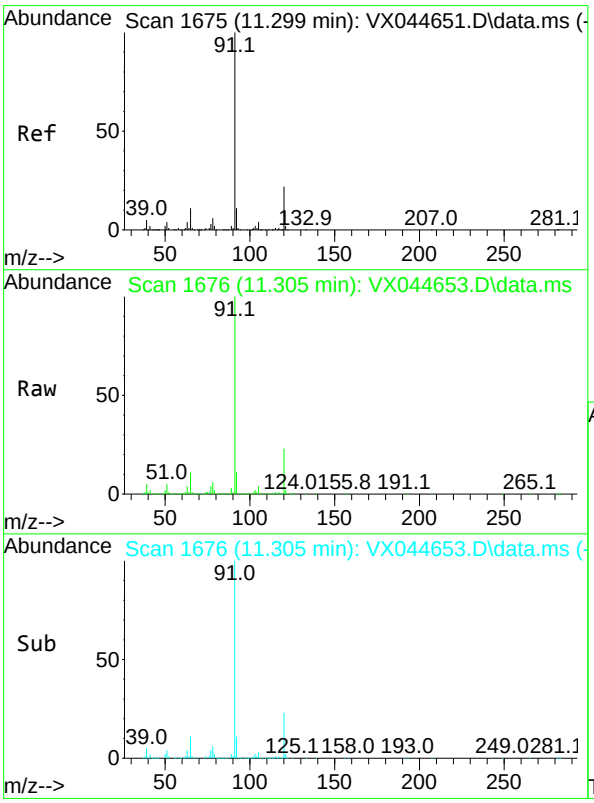
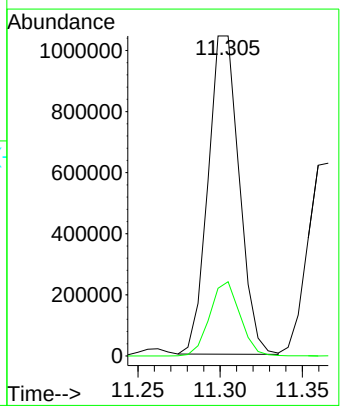
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

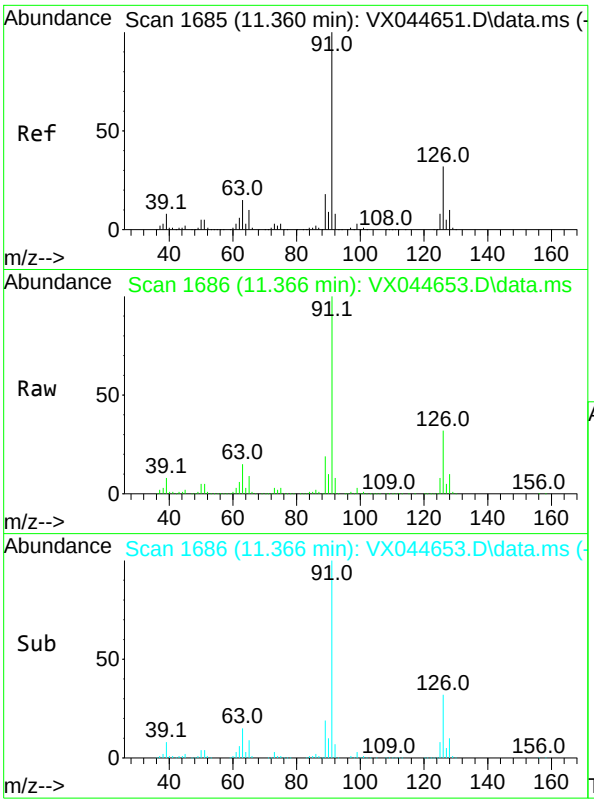



#78
n-propylbenzene
Concen: 151.223 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 91 Resp: 1375979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.4 | 34.1 |

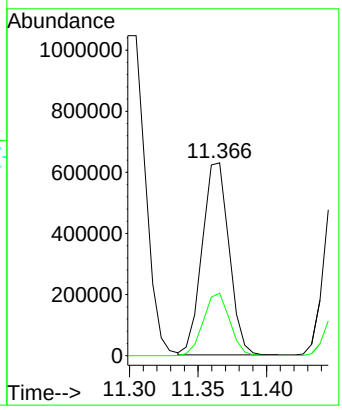





#79
2-Chlorotoluene
Concen: 145.911 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 91 Resp: 85761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.0 | 16.2 | 48.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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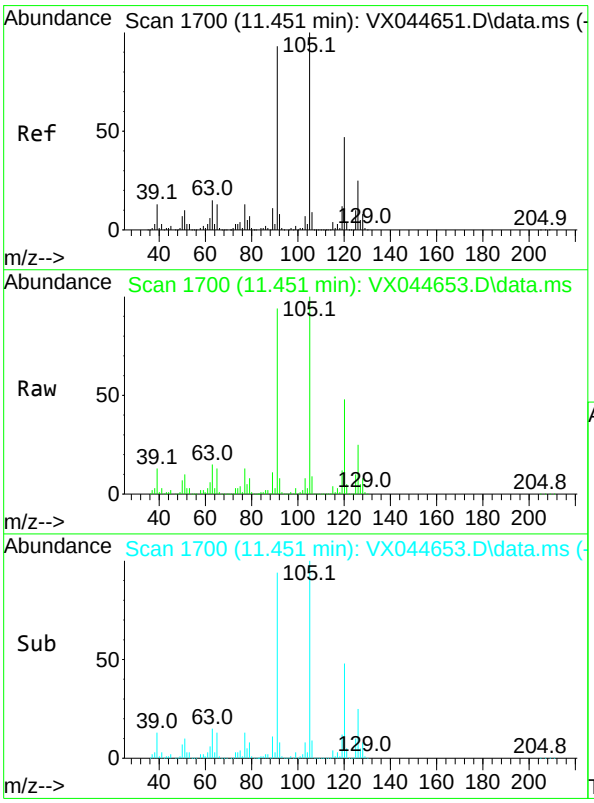
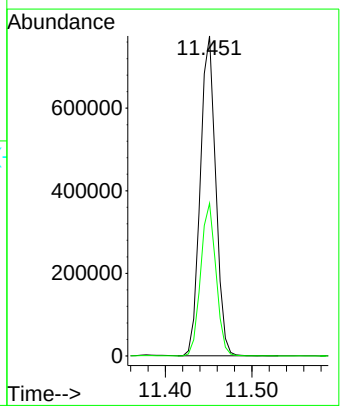
Supervised By :Semsettin Yesilyurt 01/16/2025

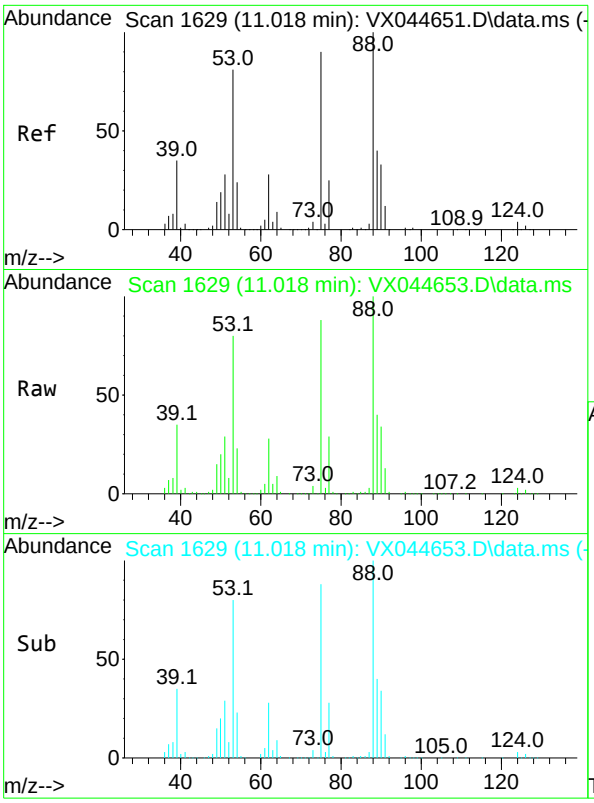



#80
1,3,5-Trimethylbenzene
Concen: 142.870 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:105 Resp: 959600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.3 | 23.7 | 71.1 |






#81
trans-1,4-Dichloro-2-butene
Concen: 160.280 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 75 Resp: 17178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 92.3 | 74.3 | 111.5 |
| 89 | 47.0 | 37.4 | 56.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

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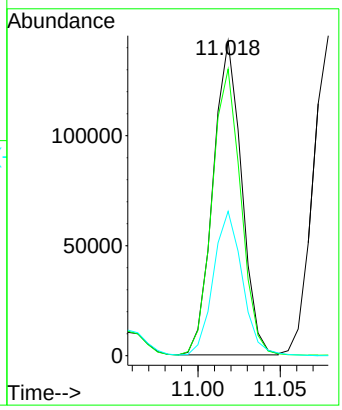
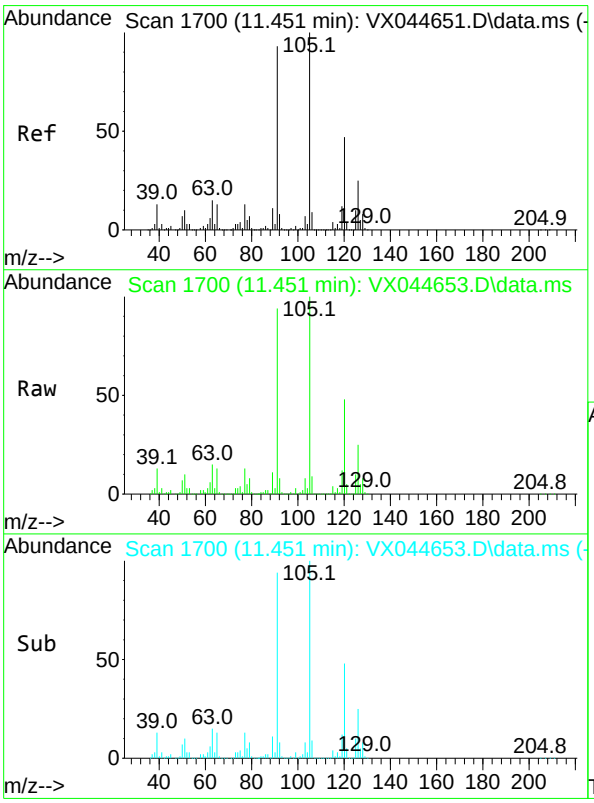
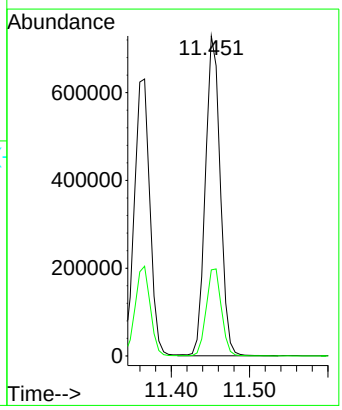


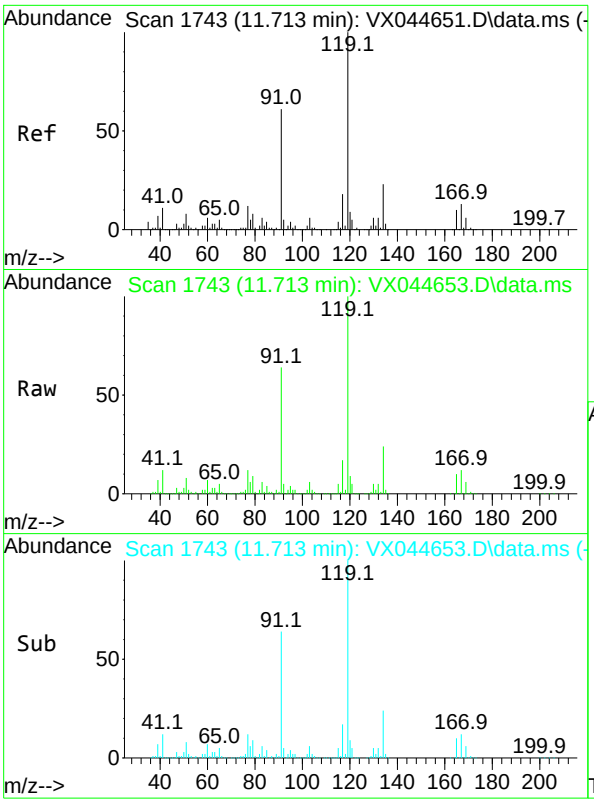




#82
4-Chlorotoluene
Concen: 148.761 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 91 Resp: 957835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.8 | 13.9 | 41.7 |

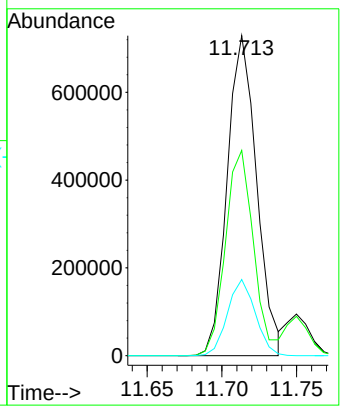





#83
tert-Butylbenzene
Concen: 142.356 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:119 Resp: 99976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.4 | 30.0 | 90.0 |
| 134 | 22.5 | 11.2 | 33.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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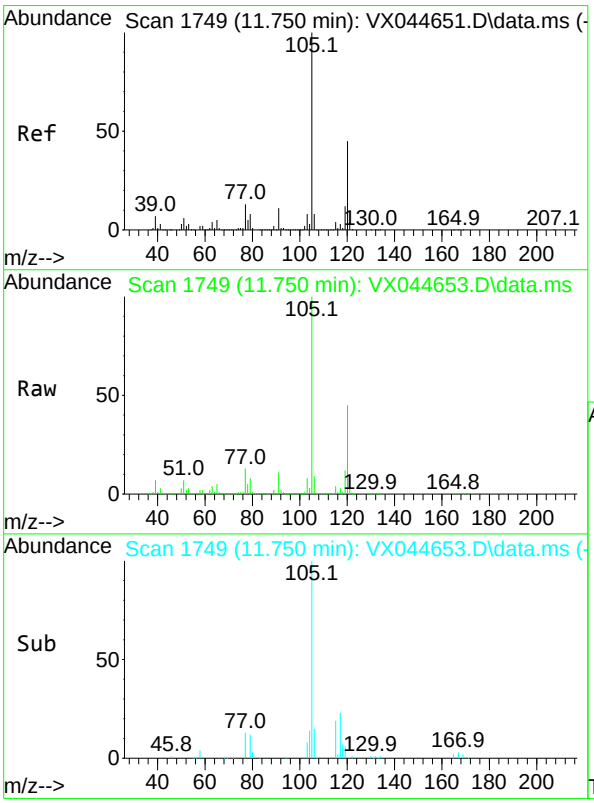
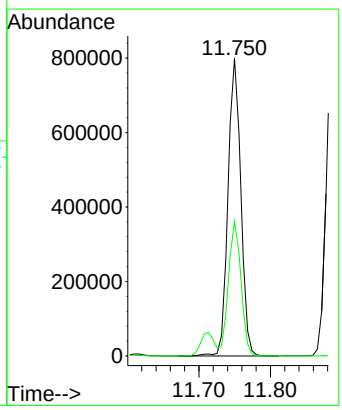
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

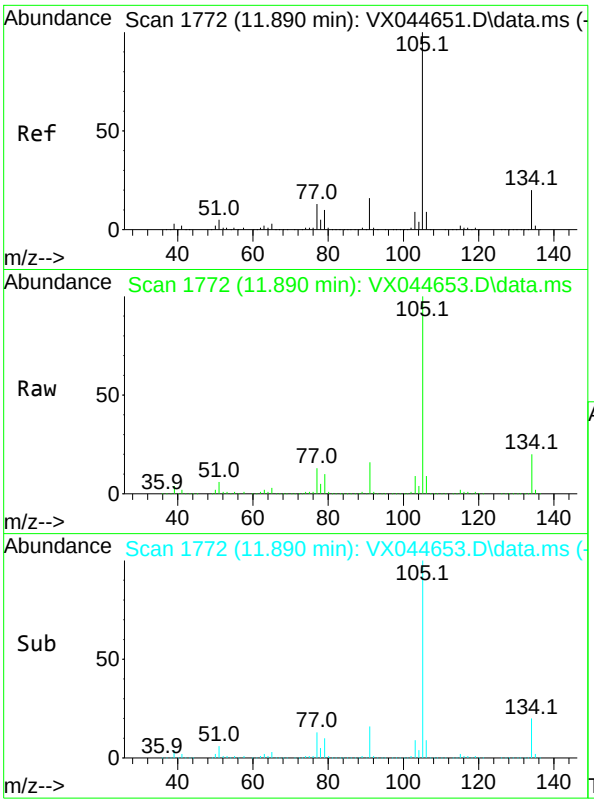



#84
1,2,4-Trimethylbenzene
Concen: 145.281 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:105 Resp: 991595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.6 | 22.2 | 66.6 |

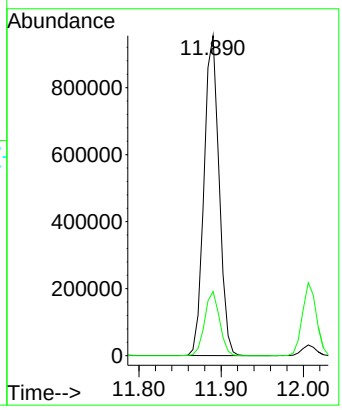





#85
sec-Butylbenzene
Concen: 148.543 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:105 Resp: 121466

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 9.8 | 29.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
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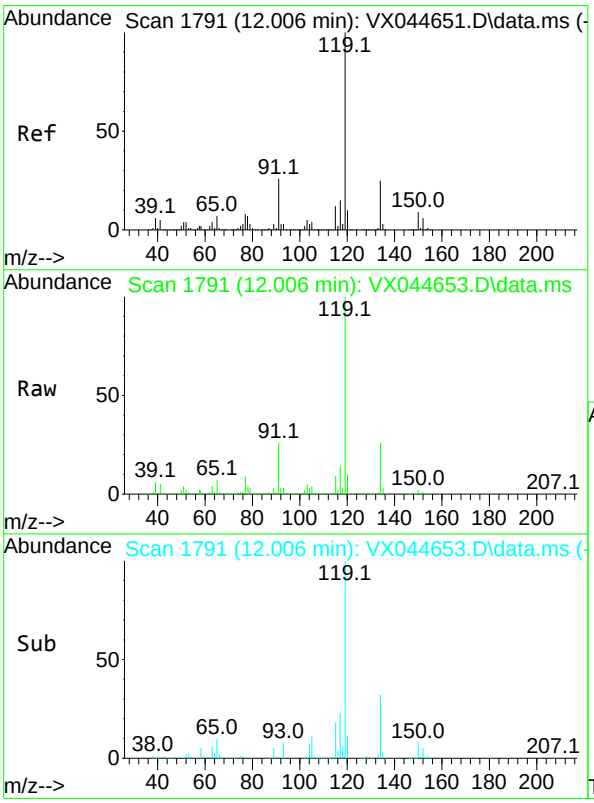
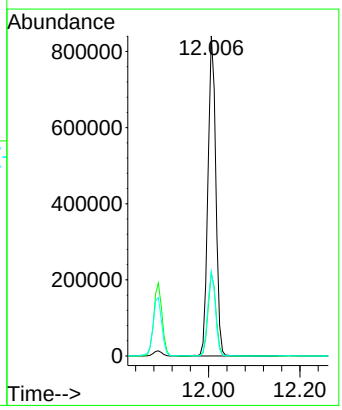
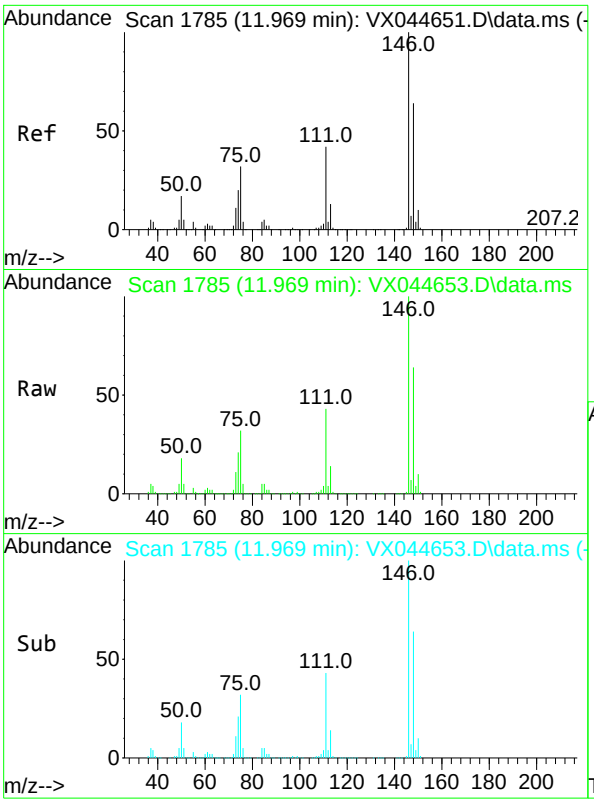



#86
p-Isopropyltoluene
Concen: 148.902 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:119 Resp: 1000632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.8 | 38.4 |
| 91 | 25.9 | 12.7 | 38.1 |

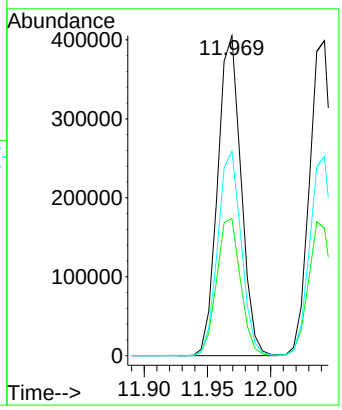





#87
1,3-Dichlorobenzene
Concen: 155.816 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:146 Resp: 52111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.9 | 65.7 |
| 148 | 64.0 | 31.8 | 95.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/15/2025
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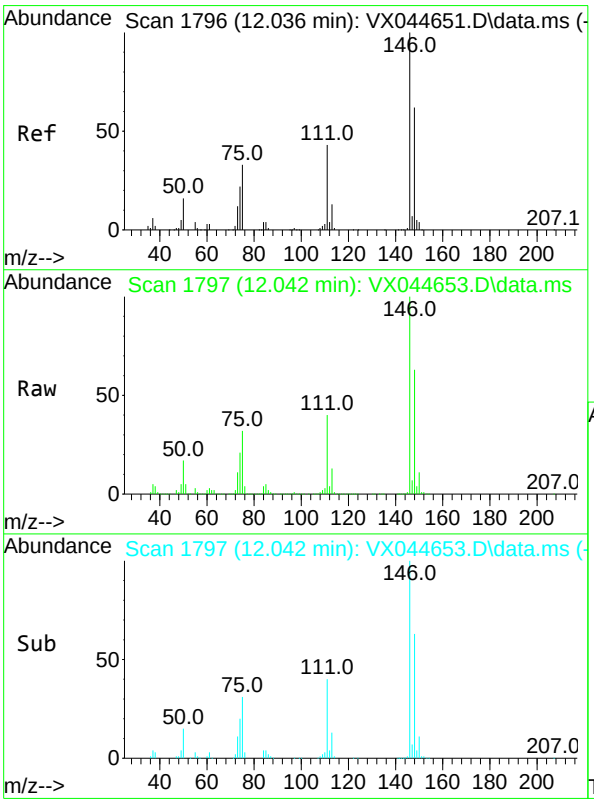
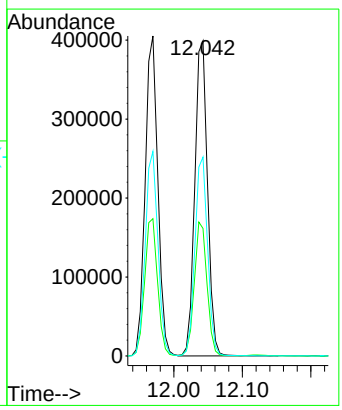
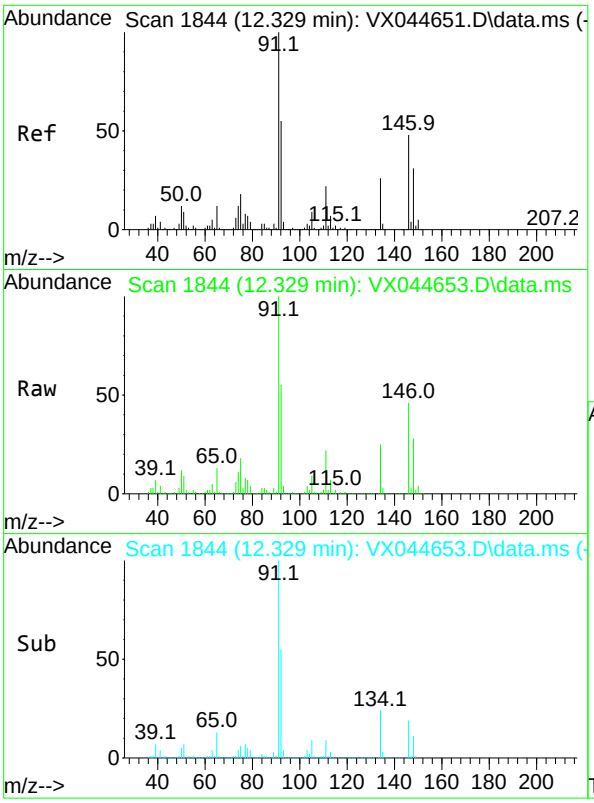



#88
1,4-Dichlorobenzene
Concen: 155.532 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:146 Resp: 516467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.2 | 21.5 | 64.5 |
| 148 | 63.1 | 32.1 | 96.5 |

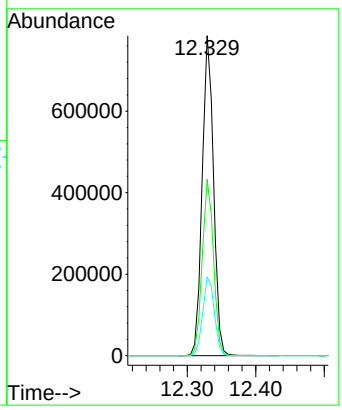





#89
n-Butylbenzene
Concen: 156.724 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 91 Resp: 90458

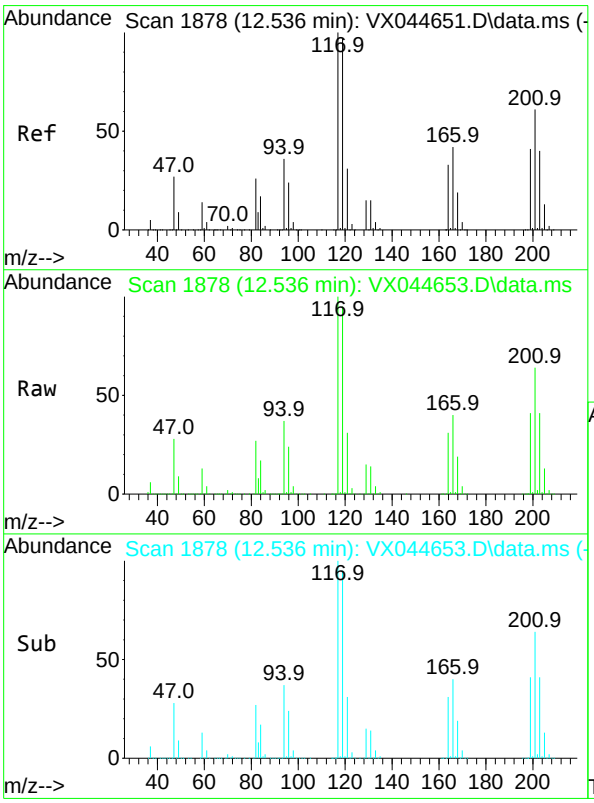
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.2 | 27.4 | 82.0 |
| 134 | 25.3 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

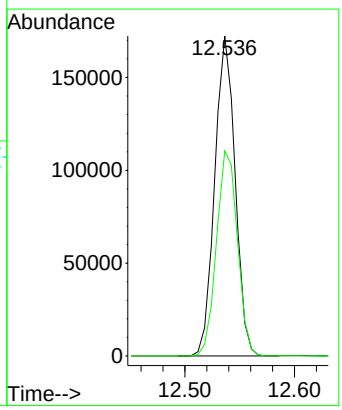
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

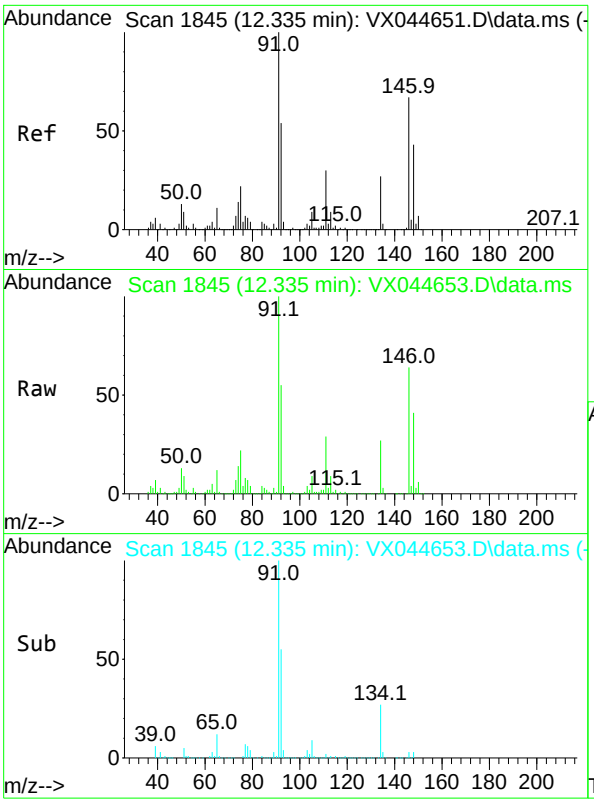



#90
Hexachloroethane
Concen: 146.455 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:117 Resp: 222866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 66.1 | 32.3 | 96.8 |

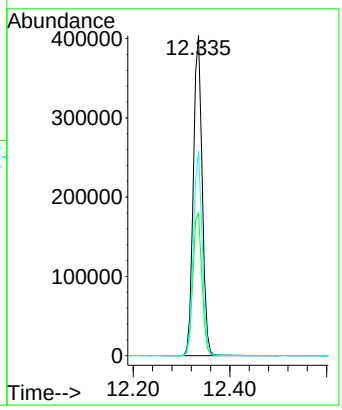





#91
1,2-Dichlorobenzene
Concen: 148.860 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:146 Resp: 51128

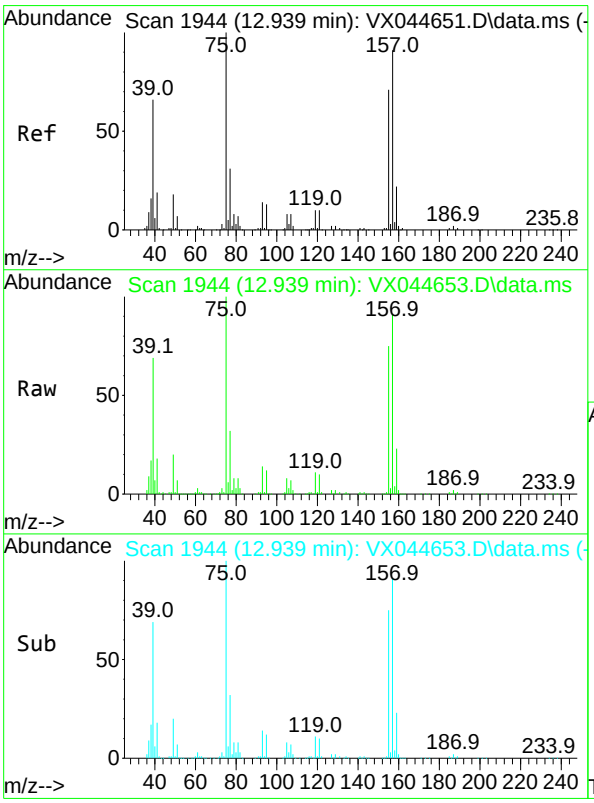
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.3 | 22.4 | 67.2 |
| 148 | 63.5 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

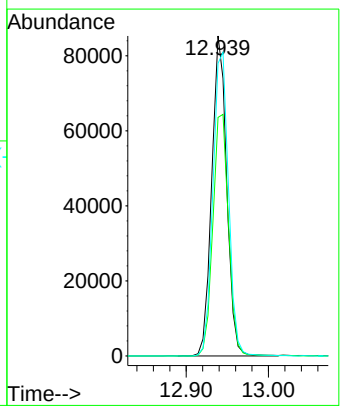
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

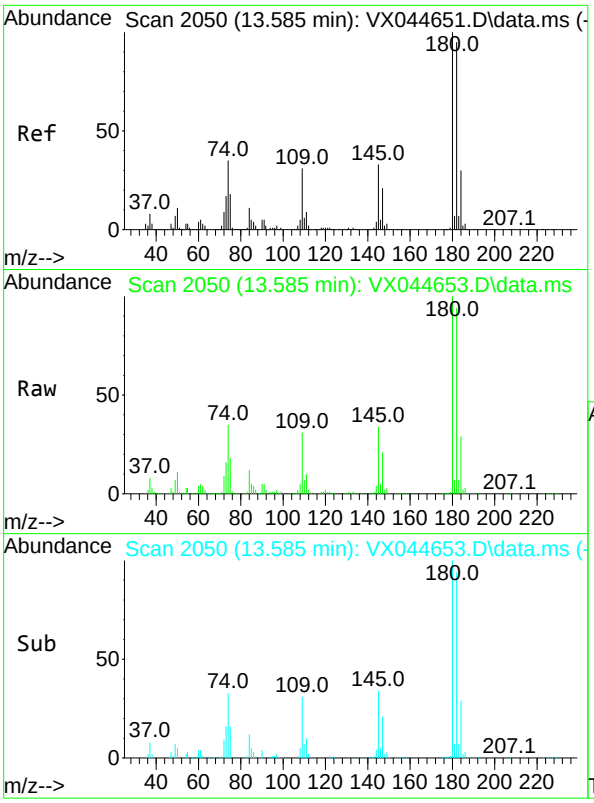



#92
1,2-Dibromo-3-Chloropropane
Concen: 154.709 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 75 Resp: 107815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 79.1 | 39.0 | 116.9 |
| 157 | 98.6 | 49.9 | 149.7 |

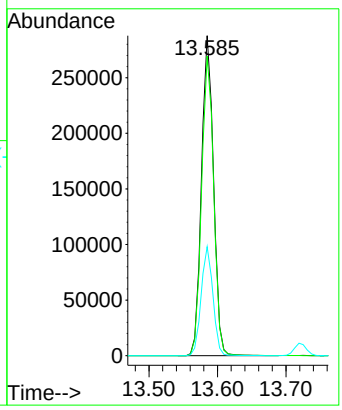





#93
1,2,4-Trichlorobenzene
Concen: 171.582 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:180 Resp: 35229

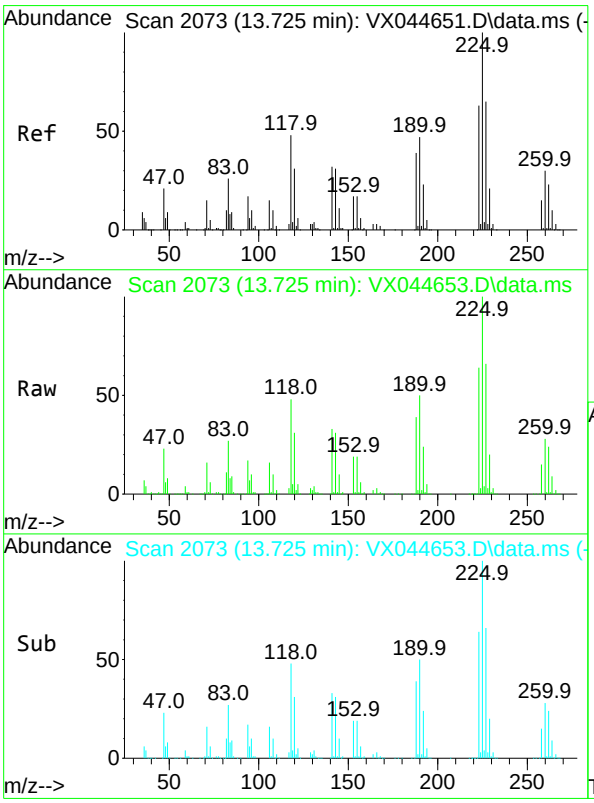
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 47.4 | 142.2 |
| 145 | 33.4 | 16.7 | 50.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

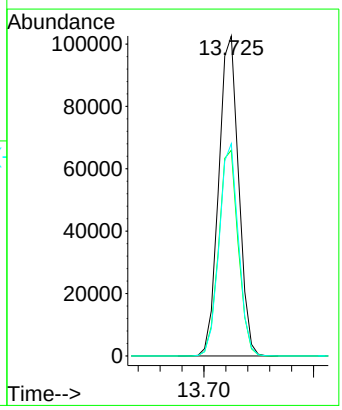
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

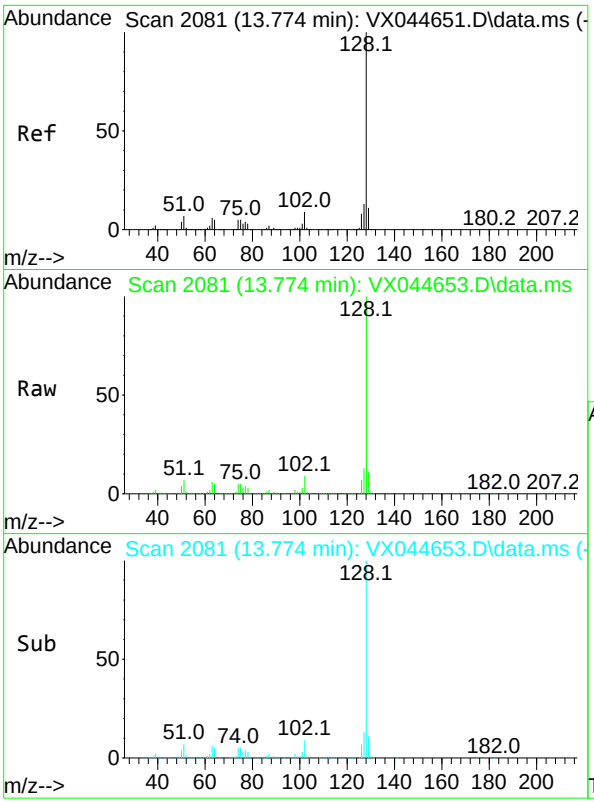



#94
Hexachlorobutadiene
Concen: 160.216 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:225 Resp: 129218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 31.9 | 95.7 |
| 227 | 64.4 | 31.8 | 95.4 |

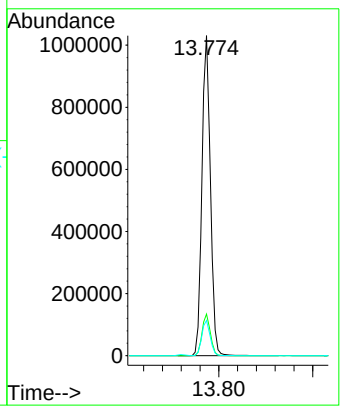





#95
Naphthalene
Concen: 162.361 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:128 Resp: 128574

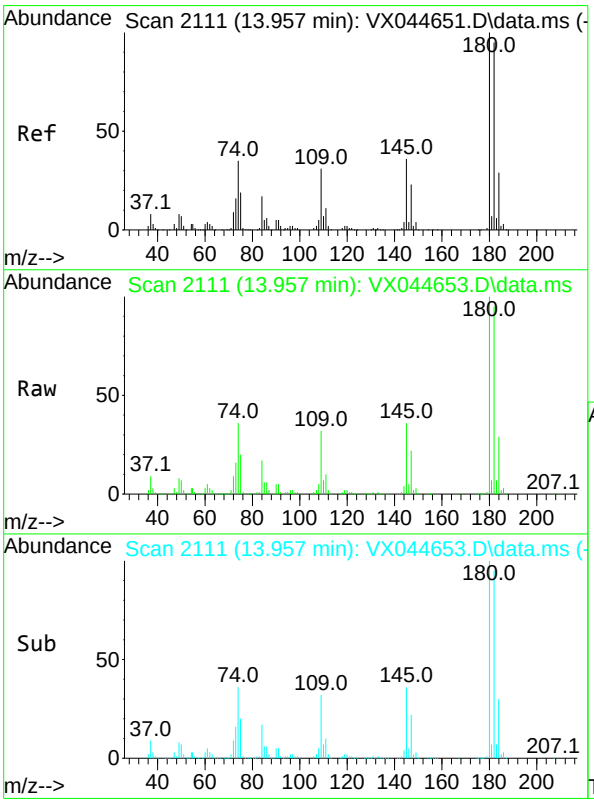
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.3 | 15.5 |
| 129 | 10.9 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

**Manual Integrations**
**APPROVED**

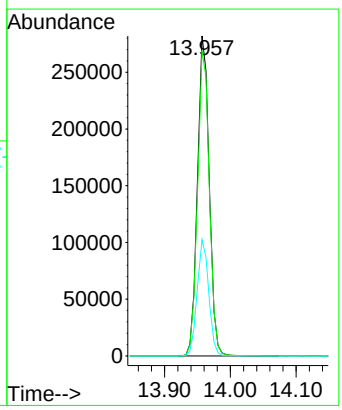
Reviewed By :John Carlone 01/15/2025
Supervised By :Semsettin Yesilyurt 01/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 164.515 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:180 Resp: 350134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.2 | 141.6 |
| 145 | 35.9 | 17.5 | 52.6 |



Quantitation Report (QT Reviewed)

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.537 | 168 | 179405 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 323521 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 266872 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 115489 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 141798 | 52.363 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 104.720% | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 110333 | 53.683 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 107.360% | | | |
| 50) Toluene-d8 | 8.641 | 98 | 380624 | 53.113 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 106.220% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 140770 | 52.693 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 105.380% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 136518 | 56.549 | ug/l | 99 |
| 3) Chloromethane | 1.300 | 50 | 124691 | 47.763 | ug/l | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 128558 | 49.839 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 30815 | 50.031 | ug/l | 98 |
| 6) Chloroethane | 1.660 | 64 | 23473 | 49.624 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.861 | 101 | 147644 | 51.789 | ug/l | 98 |
| 8) Diethyl Ether | 2.130 | 74 | 54624 | 47.479 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 2.312 | 101 | 112018 | 52.271 | ug/l | 100 |
| 10) Methyl Iodide | 2.441 | 142 | 150245 | 51.350 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.983 | 59 | 150021m | 248.503 | ug/l | |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 107643 | 51.243 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 65602 | 230.919 | ug/l | 98 |
| 14) Allyl chloride | 2.654 | 41 | 197270 | 48.232 | ug/l | 100 |
| 15) Acrylonitrile | 3.062 | 53 | 307790 | 259.942 | ug/l | 99 |
| 16) Acetone | 2.386 | 43 | 285777 | 266.735 | ug/l | 100 |
| 17) Carbon Disulfide | 2.495 | 76 | 291339 | 50.827 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 177037 | 53.560 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 383394 | 50.389 | ug/l | 99 |
| 20) Methylene Chloride | 2.782 | 84 | 119950 | 48.076 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 107127 | 48.846 | ug/l | 97 |
| 22) Diisopropyl ether | 3.757 | 45 | 360169 | 50.659 | ug/l | 93 |
| 23) Vinyl Acetate | 3.715 | 43 | 1583340 | 254.442 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 211436 | 50.150 | ug/l | 99 |
| 25) 2-Butanone | 4.550 | 43 | 423083 | 265.596 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.458 | 77 | 198981 | 48.697 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 4.477 | 96 | 134711 | 48.831 | ug/l | 100 |
| 28) Bromochloromethane | 4.885 | 49 | 97608 | 49.545 | ug/l | 99 |
| 29) Tetrahydrofuran | 4.995 | 42 | 263635 | 256.578 | ug/l | 99 |
| 30) Chloroform | 5.080 | 83 | 214034 | 50.304 | ug/l | 99 |
| 31) Cyclohexane | 5.452 | 56 | 180309 | 52.878 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 5.367 | 97 | 191114 | 48.859 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 143891 | 50.294 | ug/l | 99 |
| 37) Ethyl Acetate | 4.702 | 43 | 166128 | 54.526 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.659 | 117 | 161829 | 50.287 | ug/l | 100 |
| 39) Methylcyclohexane | 7.366 | 83 | 199470 | 52.520 | ug/l | 98 |
| 40) Benzene | 6.025 | 78 | 448684 | 50.610 | ug/l | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.910 | 41 | 91151 | 51.342 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 164707 | 50.902 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.330 | 43 | 285121 | 50.871 | ug/l | | 100 |
| 44) Trichloroethene | 7.116 | 130 | 110588 | 51.887 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 113836 | 51.011 | ug/l | | 97 |
| 46) Dibromomethane | 7.574 | 93 | 84838 | 49.939 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.811 | 83 | 174297 | 50.029 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.683 | 41 | 137603 | 52.890 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.665 | 88 | 53851 | 992.095 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 779855 | 251.778 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 271071 | 49.955 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 8.970 | 75 | 184653 | 51.300 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 199240 | 51.049 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 109957 | 50.085 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.110 | 69 | 190986 | 50.595 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 187407 | 50.129 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.232 | 63 | 466737 | 251.852 | ug/l | | 100 |
| 59) 2-Hexanone | 9.427 | 43 | 576549 | 253.010 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 128727 | 49.957 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 114330 | 49.693 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 89460 | 53.384 | ug/l | | 97 |
| 65) Chlorobenzene | 10.073 | 112 | 287202 | 50.667 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 105329 | 51.129 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 511560 | 51.721 | ug/l | | 98 |
| 68) m/p-Xylenes | 10.299 | 106 | 376743 | 102.645 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 186995 | 50.378 | ug/l | | 99 |
| 70) Styrene | 10.652 | 104 | 308018 | 51.398 | ug/l | | 100 |
| 71) Bromoform | 10.799 | 173 | 86512 | 51.597 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 474051 | 50.246 | ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 233338 | 50.177 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 159673 | 49.002 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 140149m | 50.004 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 109171 | 49.506 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 538048 | 51.712 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 333891 | 49.678 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.445 | 105 | 382880 | 49.852 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 63708 | 51.981 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 373655 | 50.750 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 397191 | 49.459 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 388010 | 49.714 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 477595 | 51.076 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 392123 | 51.028 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 196862 | 51.476 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 193343 | 50.011 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 350704 | 53.136 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 84427 | 48.518 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 194138 | 49.430 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 39583 | 49.672 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 125286 | 53.362 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 48702 | 52.807 | ug/l | | 99 |
| 95) Naphthalene | 13.774 | 128 | 479024 | 52.899 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 128038 | 52.611 | ug/l | | 100 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

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

ICAL Form

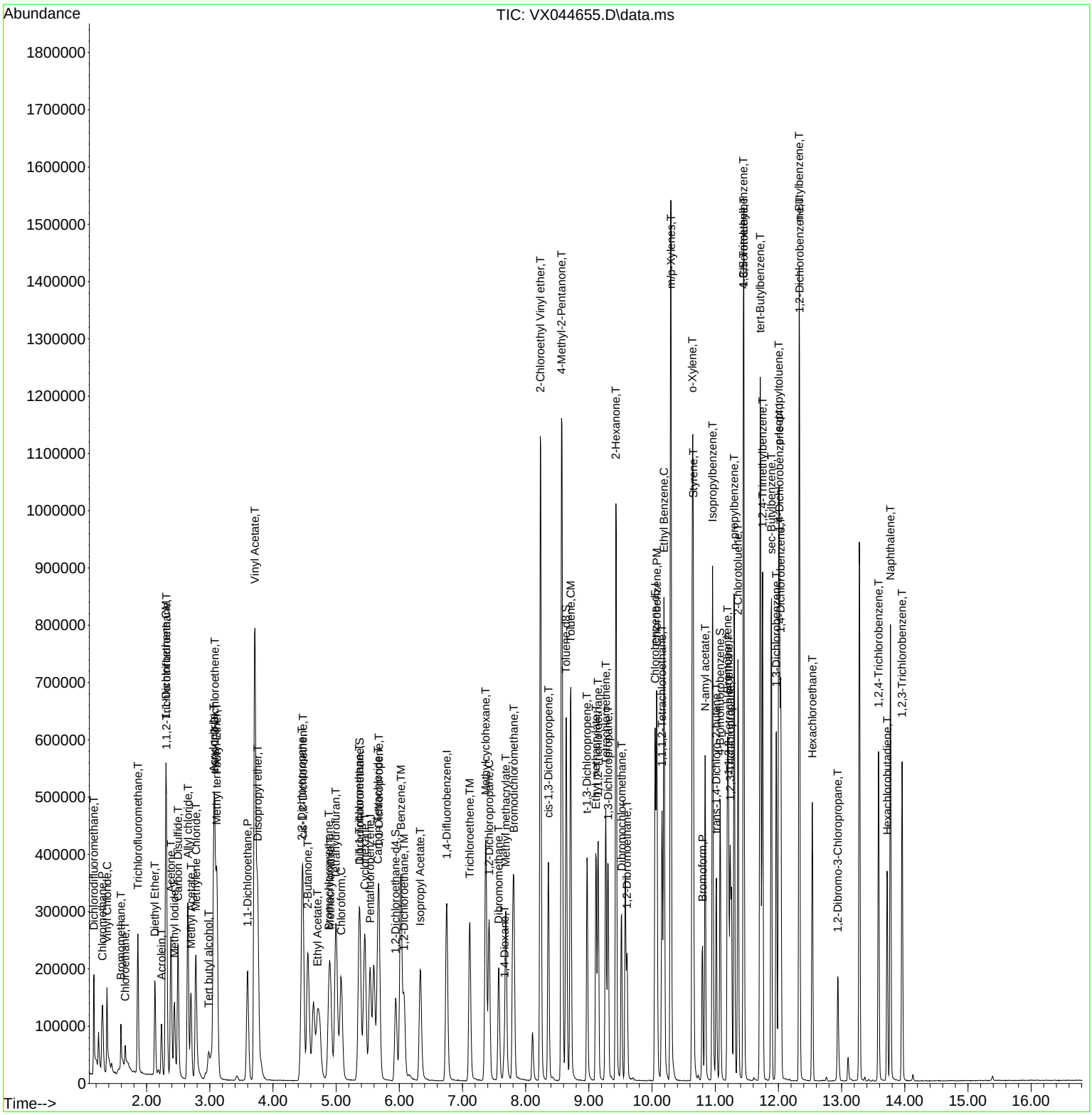
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

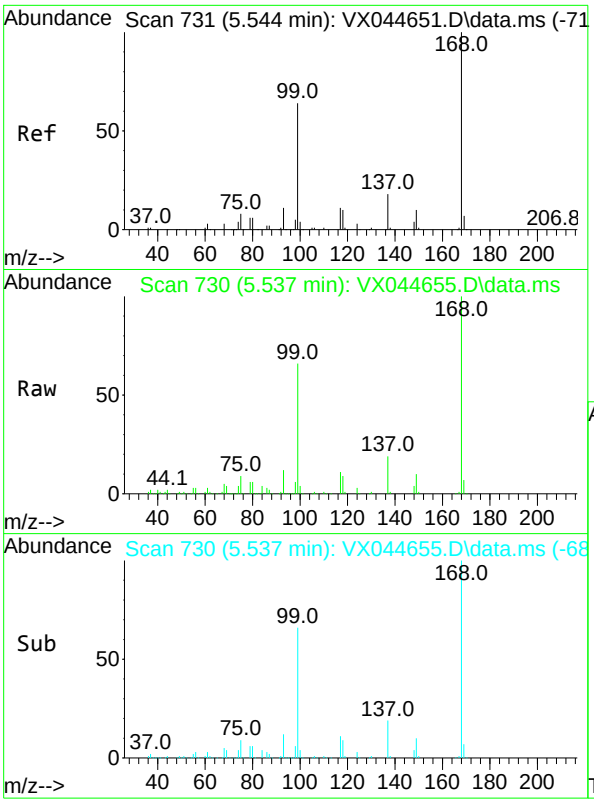
Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations APPROVED**

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

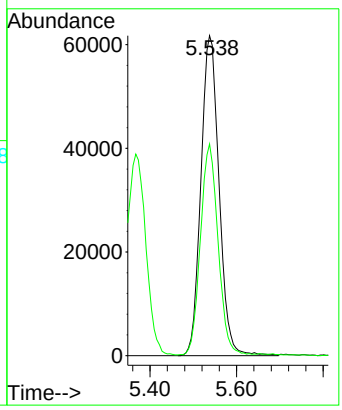





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:168 Resp: 17940

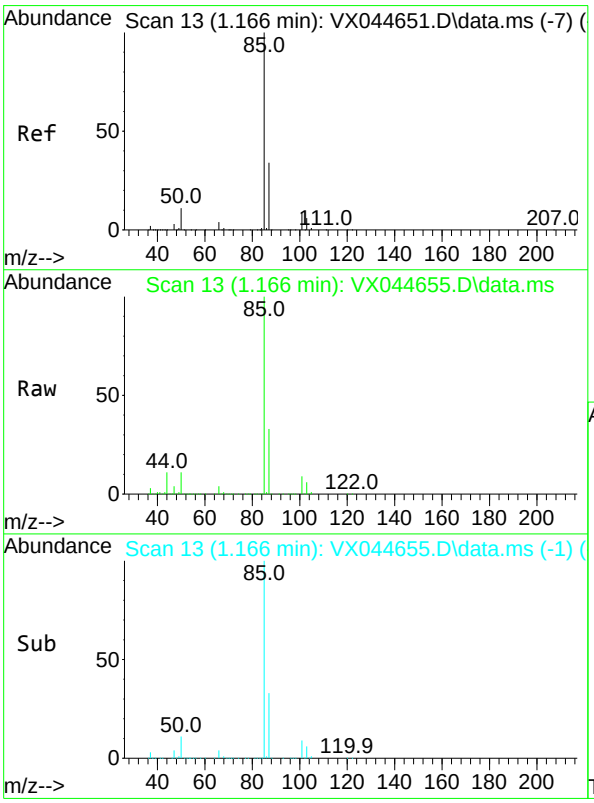
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.9 | 51.1 | 76.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

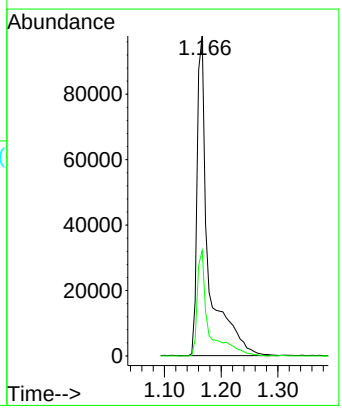
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

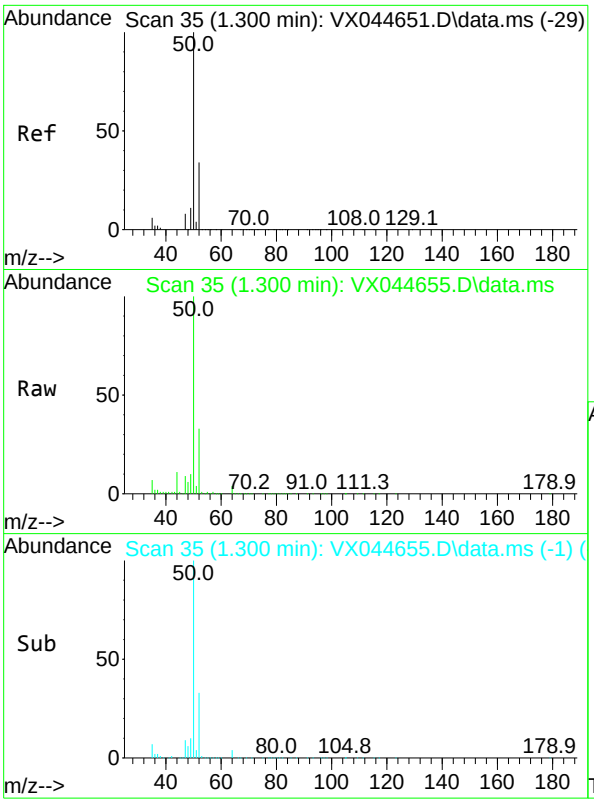



#2
Dichlorodifluoromethane
Concen: 56.549 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 85 Resp: 136518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.0 | 16.8 | 50.4 |

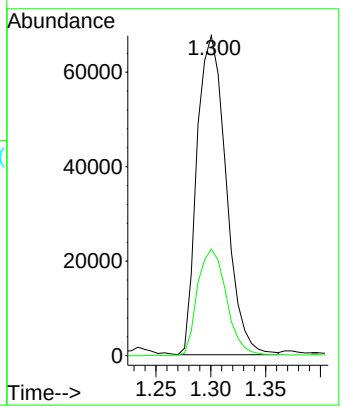





#3
Chloromethane
Concen: 47.763 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 50 Resp: 12469

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
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**Manual Integrations**
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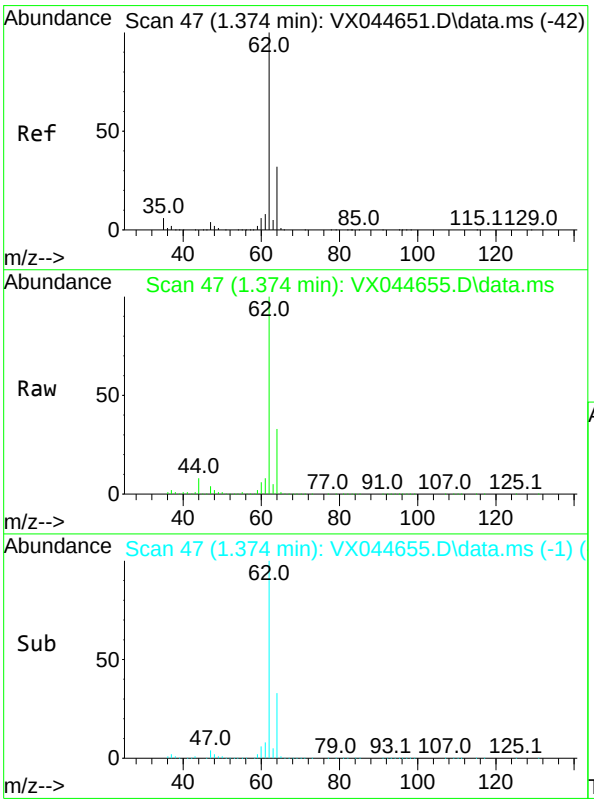
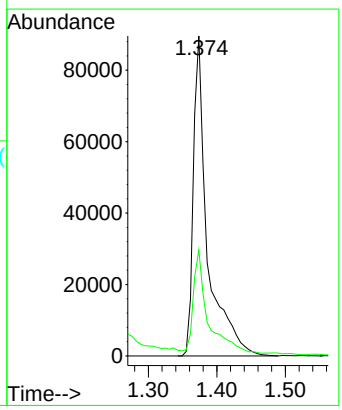
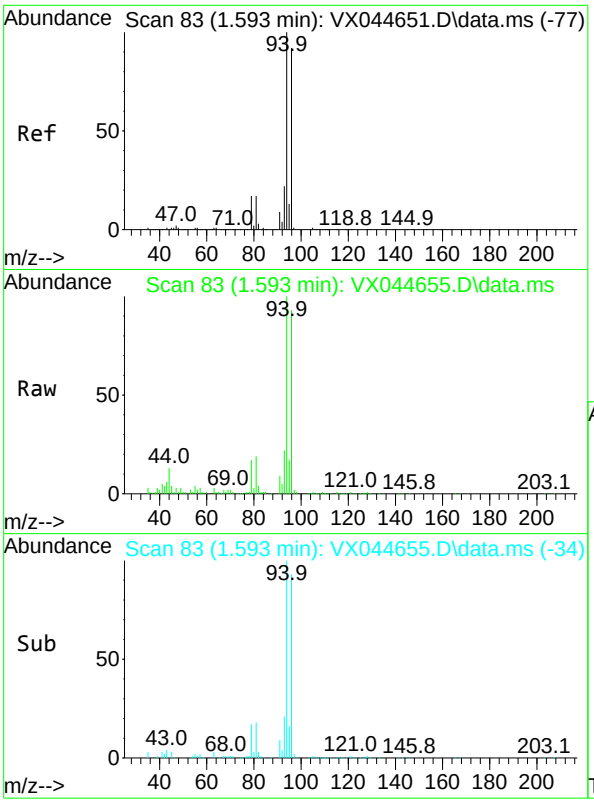



#4
Vinyl Chloride
Concen: 49.839 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 62 Resp: 128558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 26.6 | 39.8 |

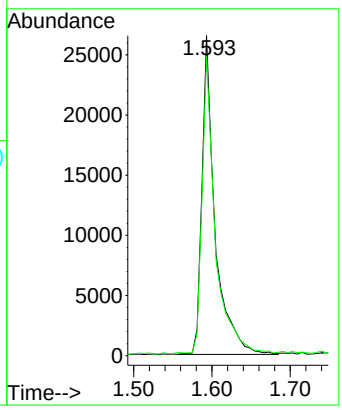





#5
Bromomethane
Concen: 50.031 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 94 Resp: 3081

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.8 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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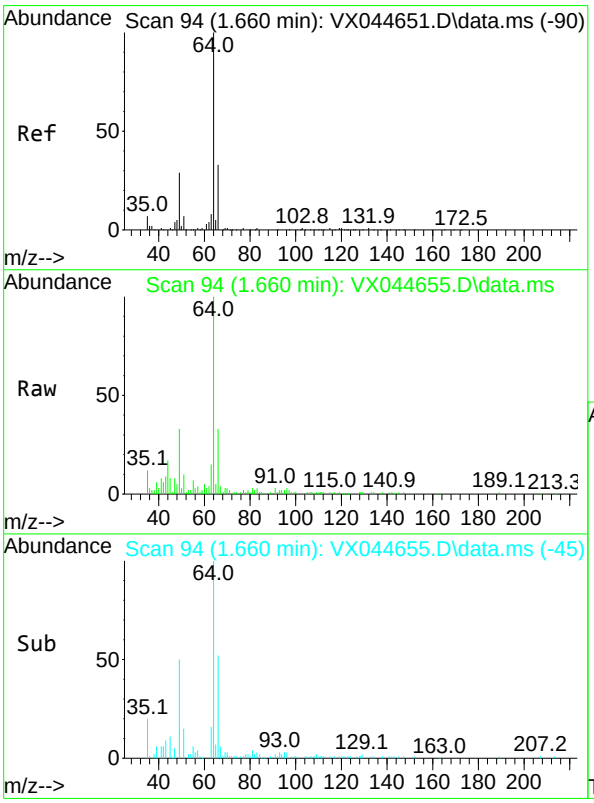
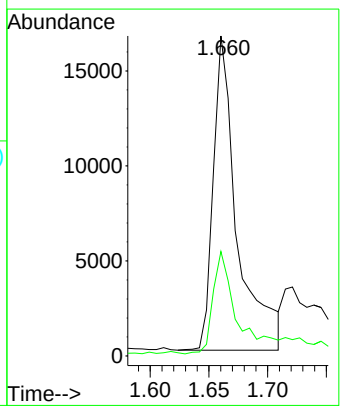
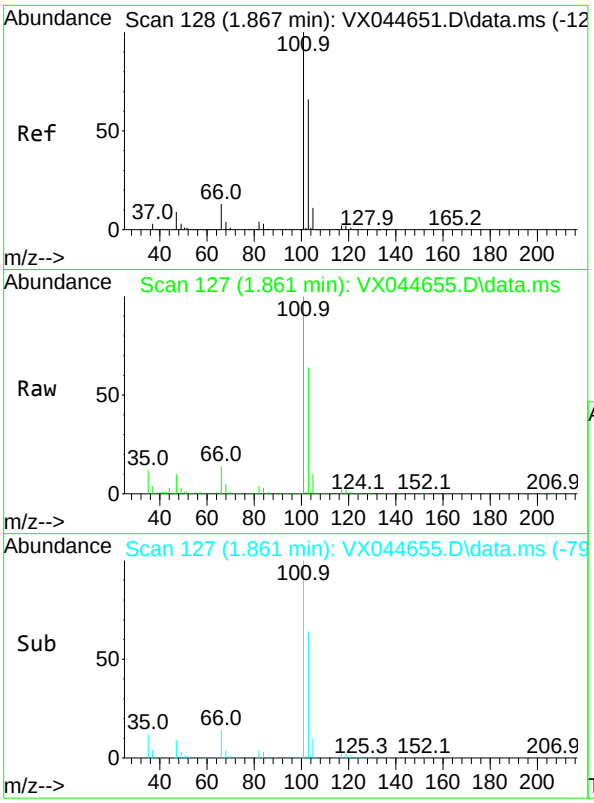



#6
Chloroethane
Concen: 49.624 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 64 Resp: 23473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 26.6 | 39.8 |

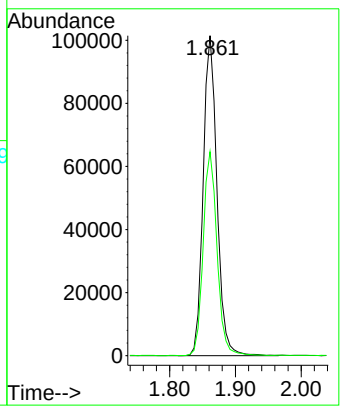





#7
Trichlorofluoromethane
Concen: 51.789 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:101 Resp: 14764

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 52.5 | 78.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

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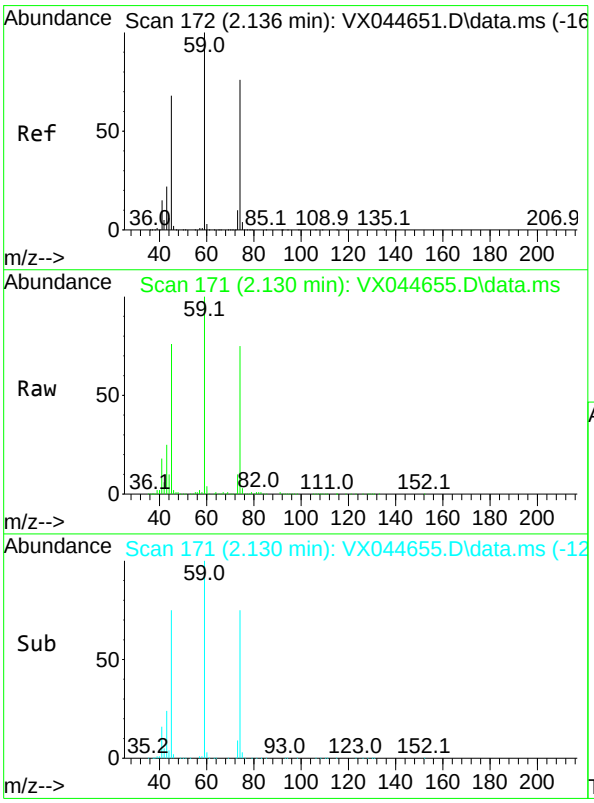
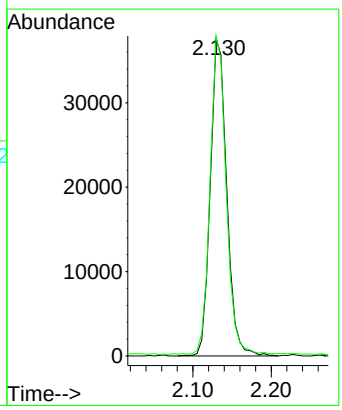
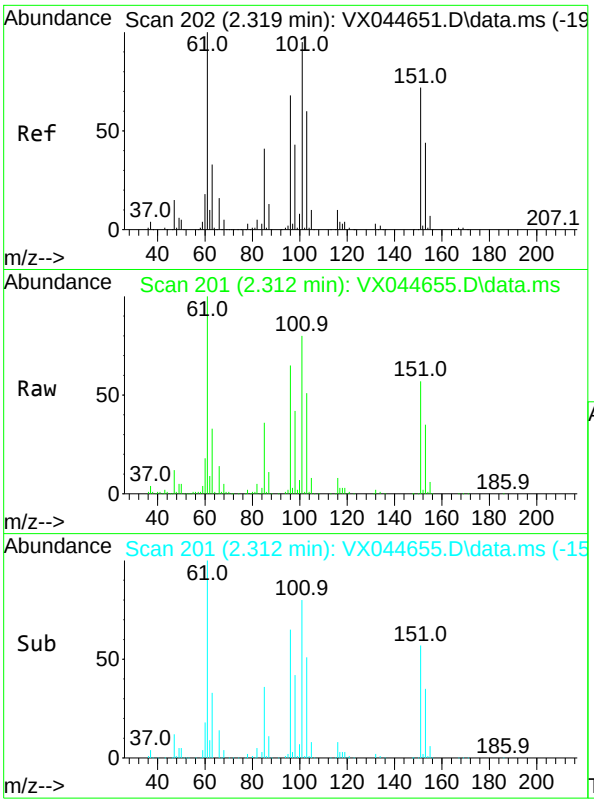



#8
Diethyl Ether
Concen: 47.479 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 74 Resp: 54624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.4 | 47.1 | 141.3 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.271 ug/l
RT: 2.312 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:101 Resp: 11201

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.6 | 35.3 | 52.9 |
| 151 | 72.6 | 58.2 | 87.4 |

**Instrument :**
MSVOA_X
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ICVVX011525

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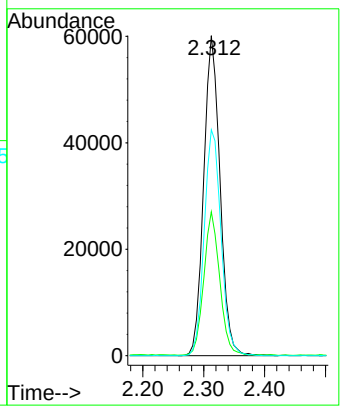
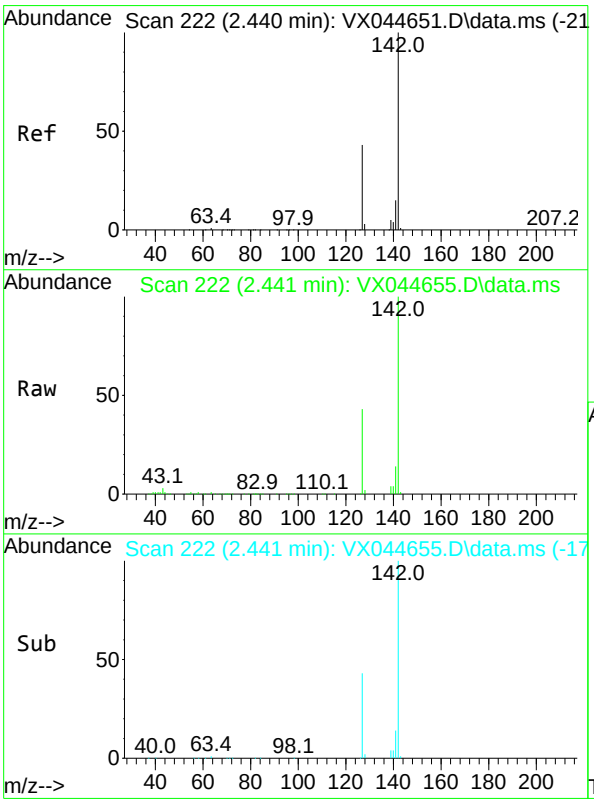
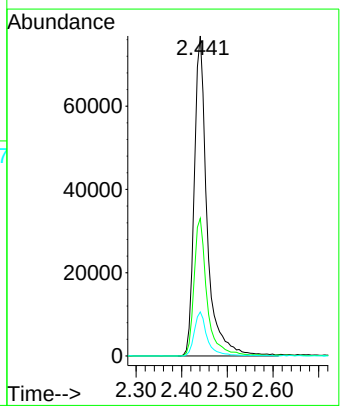


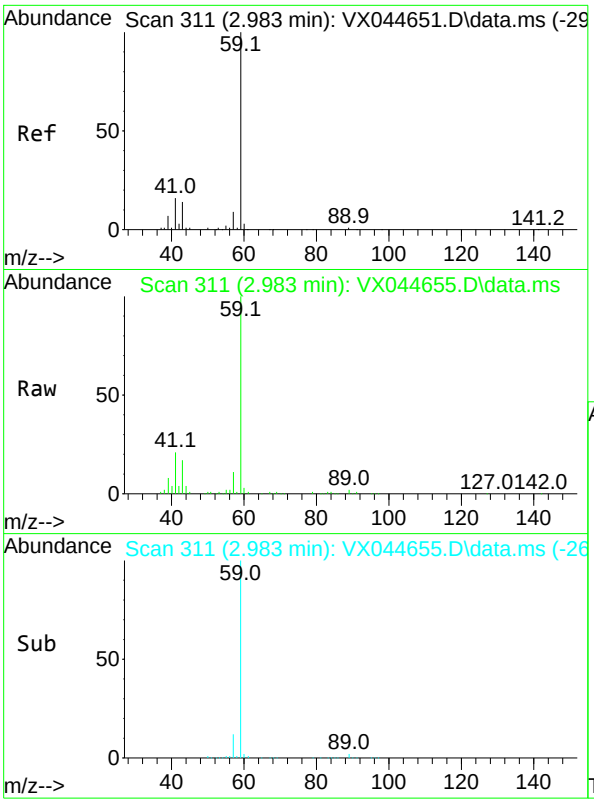




#10
Methyl Iodide
Concen: 51.350 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:142 Resp: 150245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.6 | 35.0 | 52.4 |
| 141 | 13.8 | 11.7 | 17.5 |

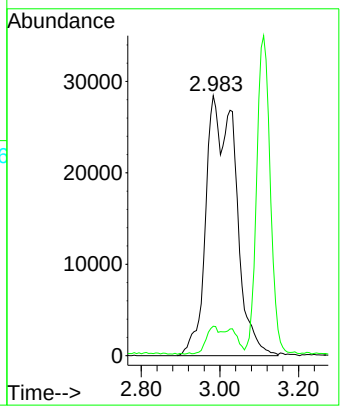





#11
Tert butyl alcohol
Concen: 248.503 ug/l m
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 59 Resp: 15002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 5.2 | 3.9 | 5.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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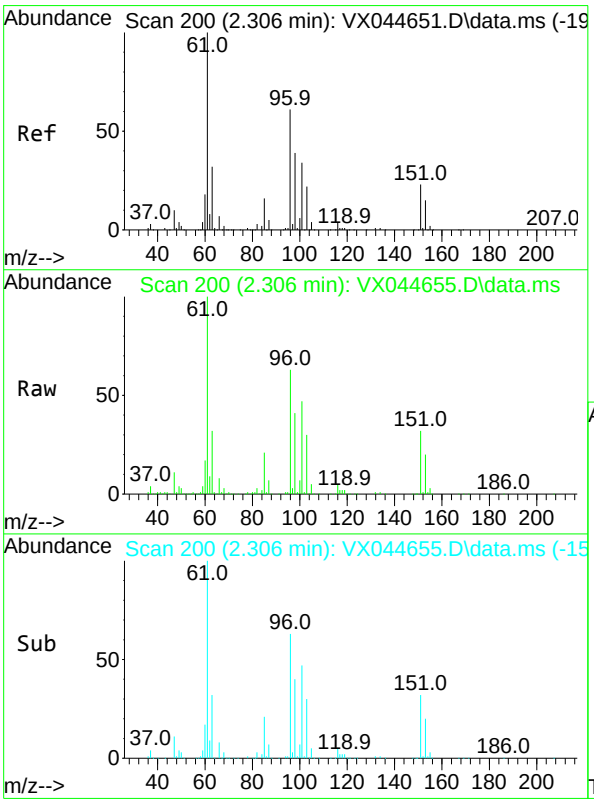
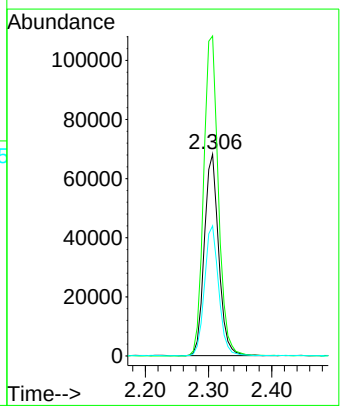
Supervised By :Semsettin Yesilyurt 01/16/2025

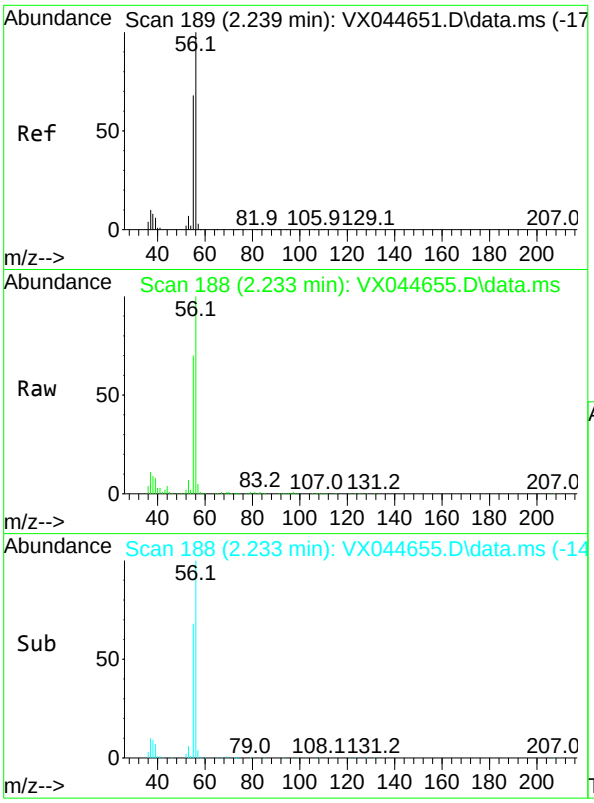



#12
1,1-Dichloroethene
Concen: 51.243 ug/l
RT: 2.306 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 96 Resp: 107643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.8 | 131.1 | 196.7 |
| 98 | 64.3 | 51.2 | 76.8 |

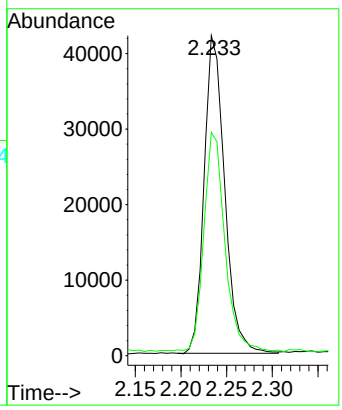





#13
Acrolein
Concen: 230.919 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 56 Resp: 6560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.6 | 55.1 | 82.7 |

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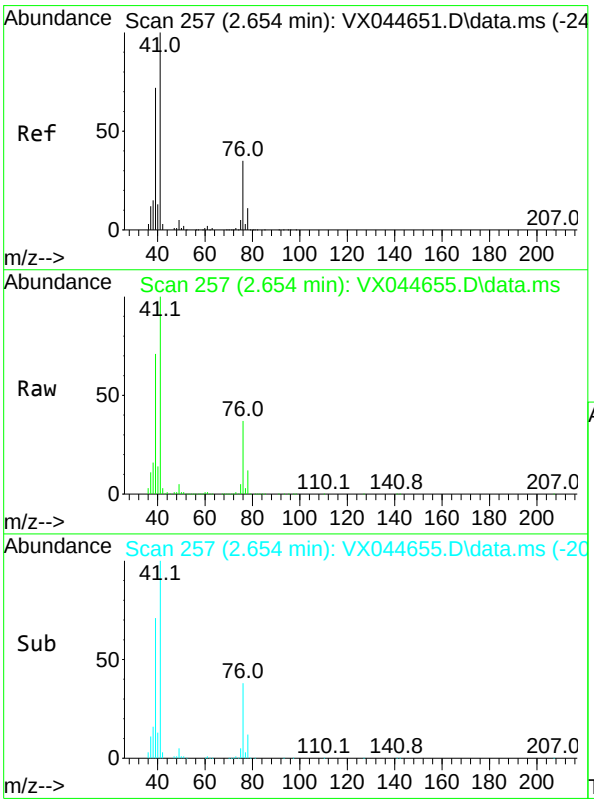
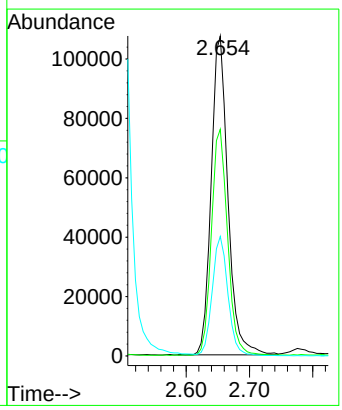
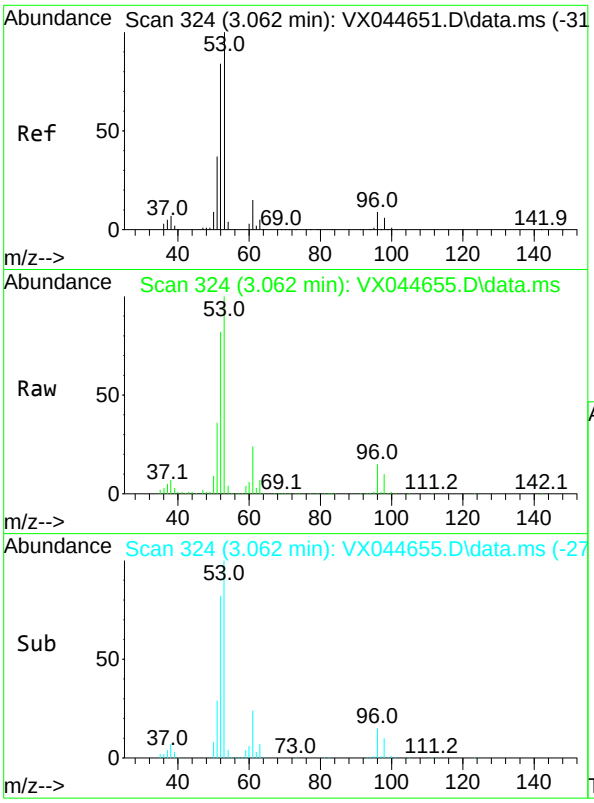



#14
Allyl chloride
Concen: 48.232 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 41 Resp: 197270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.5 | 54.9 | 82.3 |
| 76 | 35.6 | 28.4 | 42.6 |

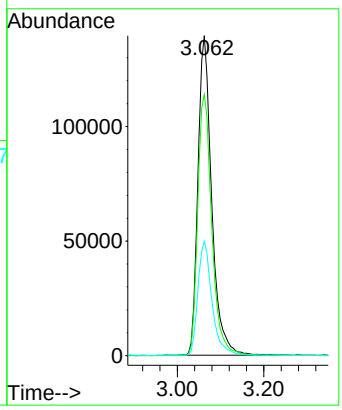





#15
Acrylonitrile
Concen: 259.942 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 53 Resp: 30779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.2 | 66.0 | 99.0 |
| 51 | 36.2 | 28.9 | 43.3 |




**Instrument :**
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ICVVX011525

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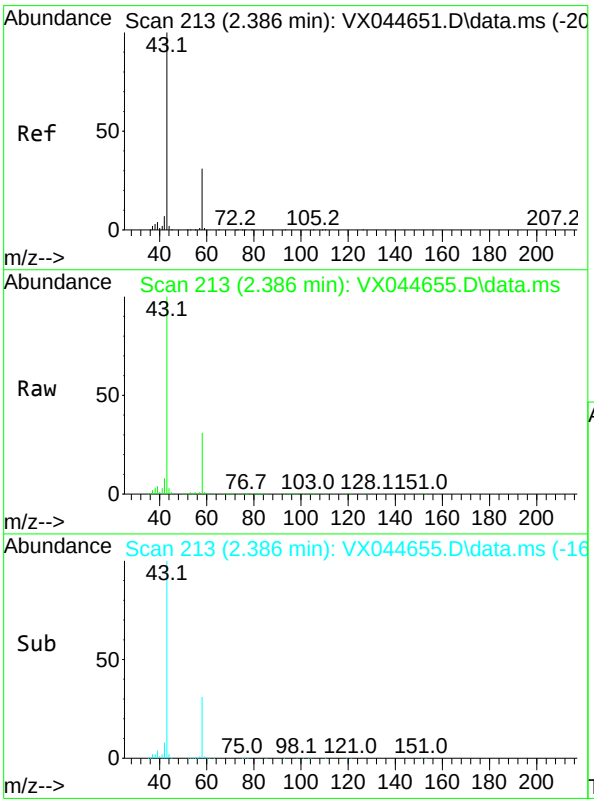
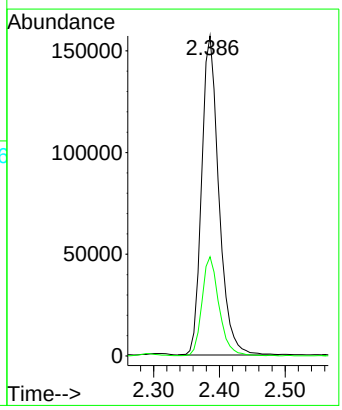
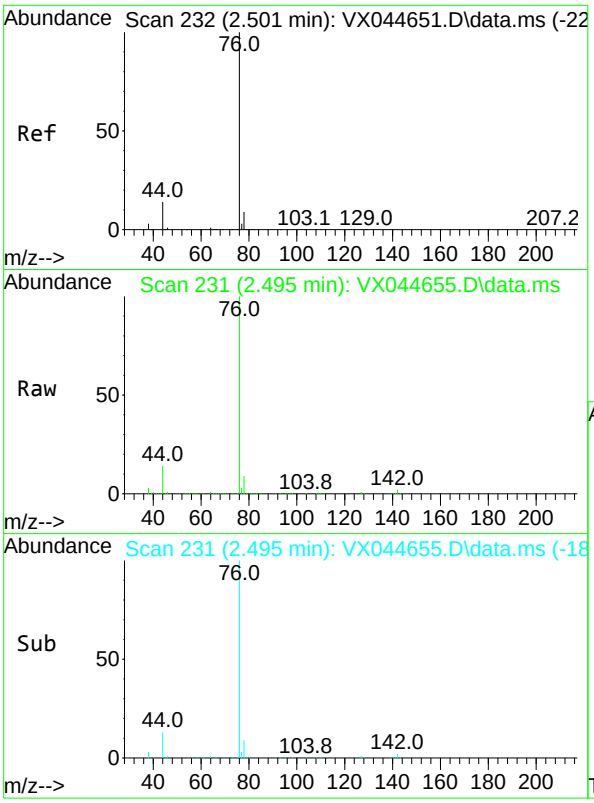



#16
Acetone
Concen: 266.735 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 285777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.0 | 24.6 | 37.0 |






#17
Carbon Disulfide
Concen: 50.827 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 76 Resp: 29133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.1 | 10.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

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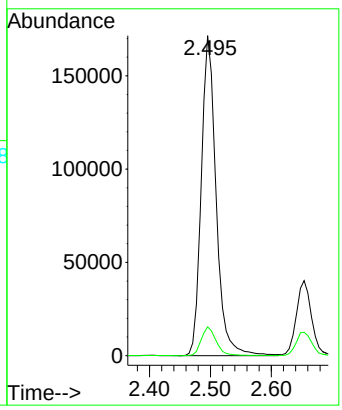
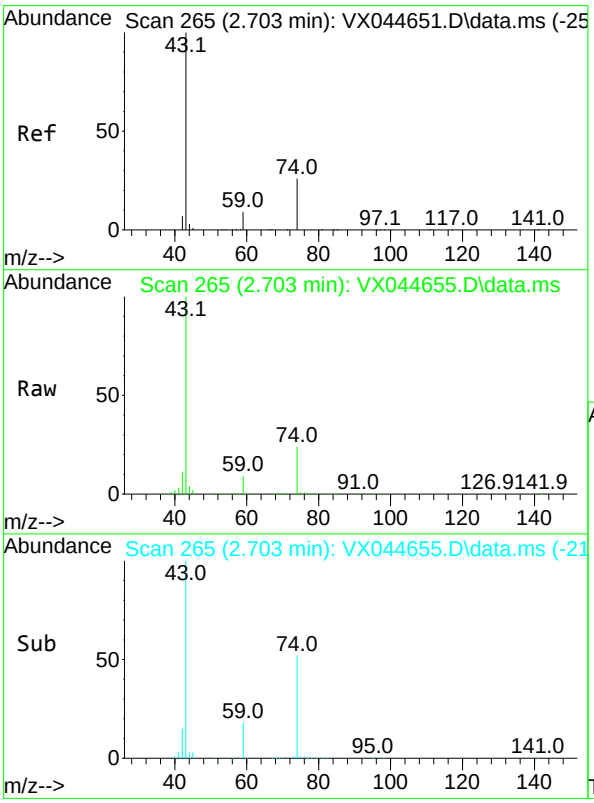
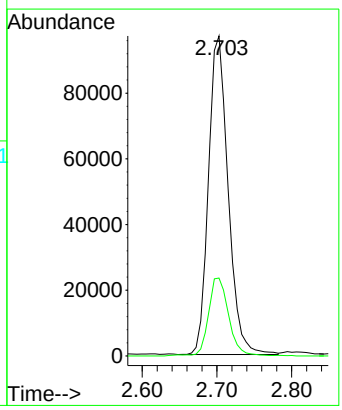


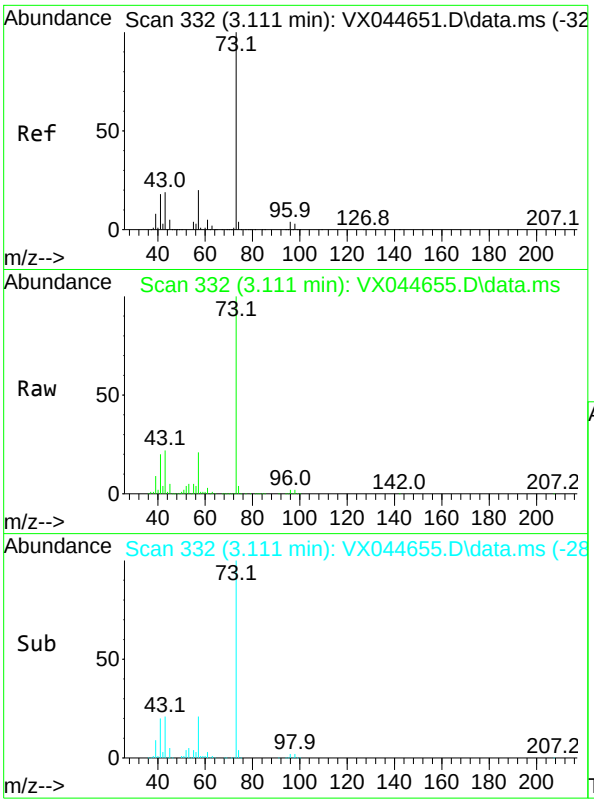




#18
Methyl Acetate
Concen: 53.560 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 177037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.4 | 19.8 | 29.8 |

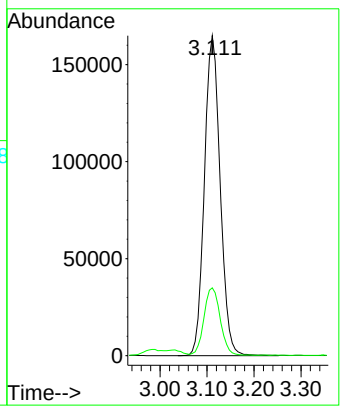





#19
Methyl tert-butyl Ether
Concen: 50.389 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 73 Resp: 38339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.1 | 17.4 | 26.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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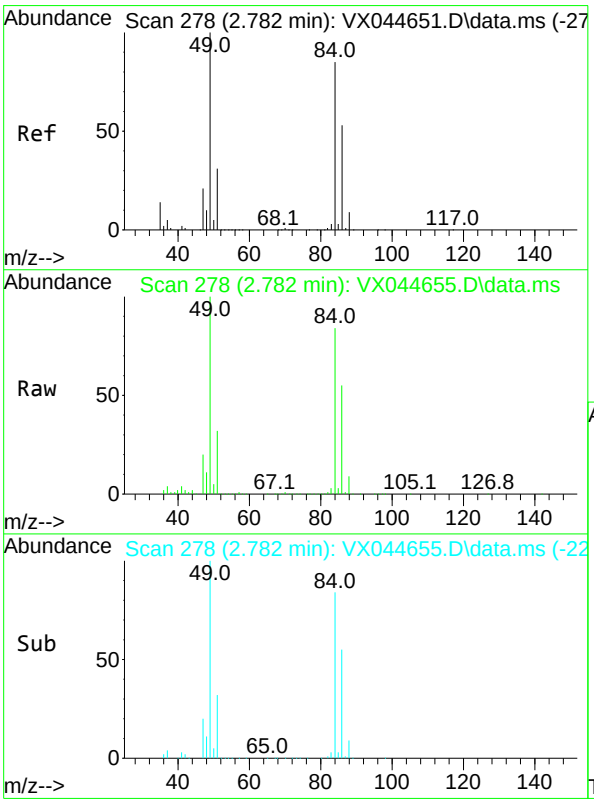
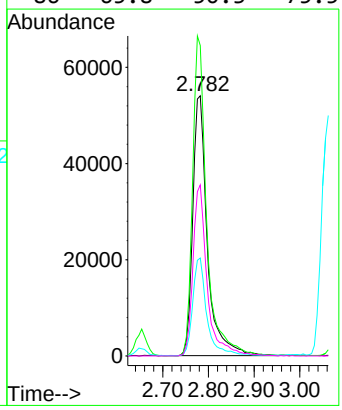
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

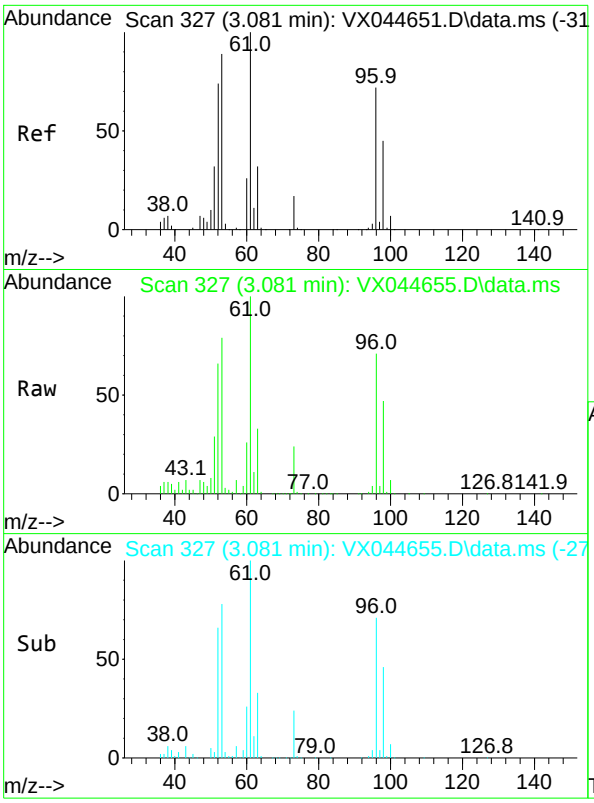



#20
Methylene Chloride
Concen: 48.076 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 84 Resp: 119950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.5 | 94.2 | 141.4 |
| 51 | 37.6 | 28.8 | 43.2 |
| 86 | 65.8 | 50.3 | 75.5 |

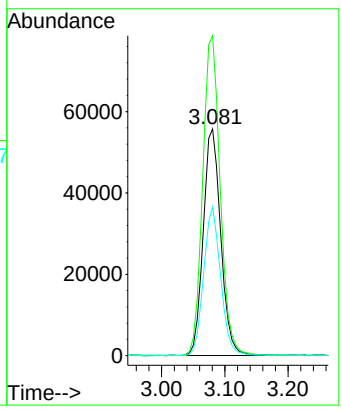





#21
trans-1,2-Dichloroethene
Concen: 48.846 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 96 Resp: 10712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.2 | 111.0 | 166.6 |
| 98 | 65.6 | 50.2 | 75.2 |




**Instrument :**
MSVOA_X
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ICVVX011525

**Manual Integrations**
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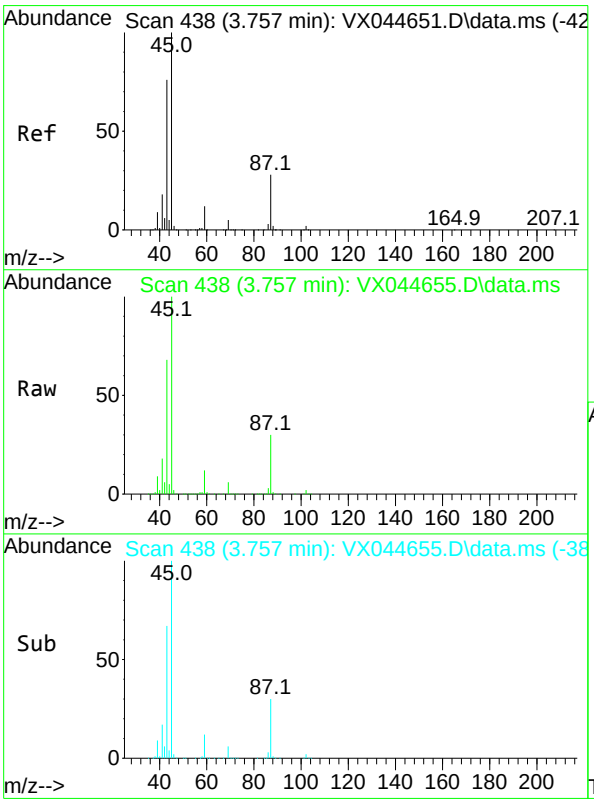
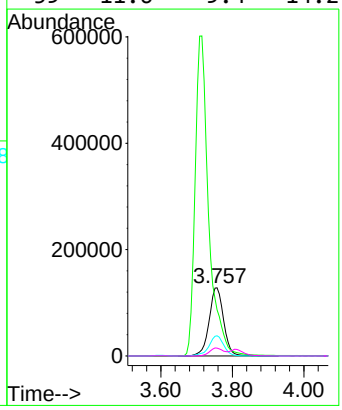
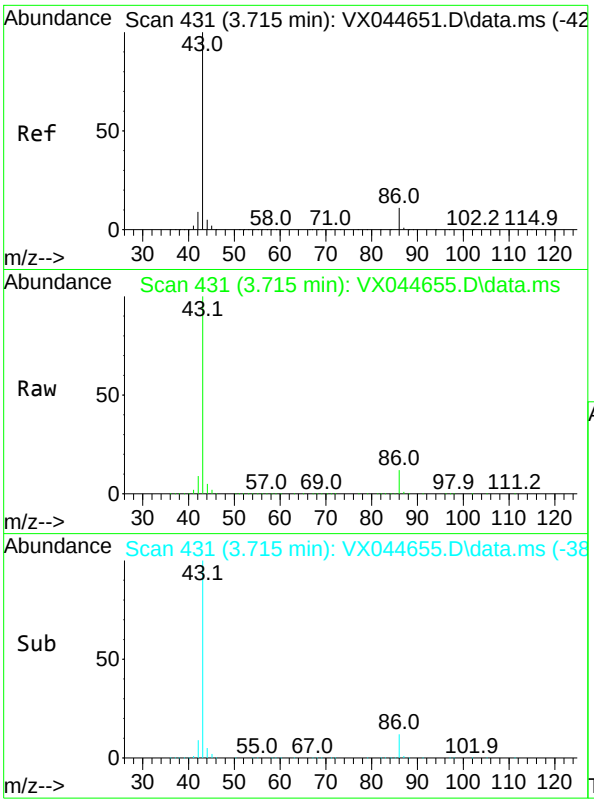



#22
Diisopropyl ether
Concen: 50.659 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 45 Resp: 360169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 67.3 | 61.0 | 91.6 |
| 87 | 29.5 | 22.7 | 34.1 |
| 59 | 11.6 | 9.4 | 14.2 |

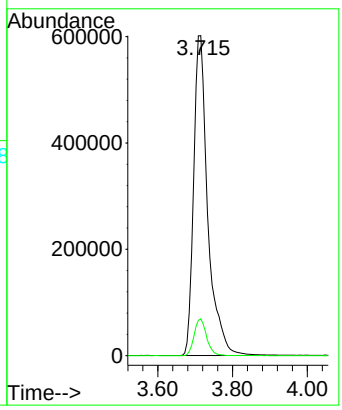





#23
Vinyl Acetate
Concen: 254.442 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 158334

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.5 | 8.9 | 13.3 |




**Instrument :**
MSVOA_X
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ICVVX011525

**Manual Integrations**
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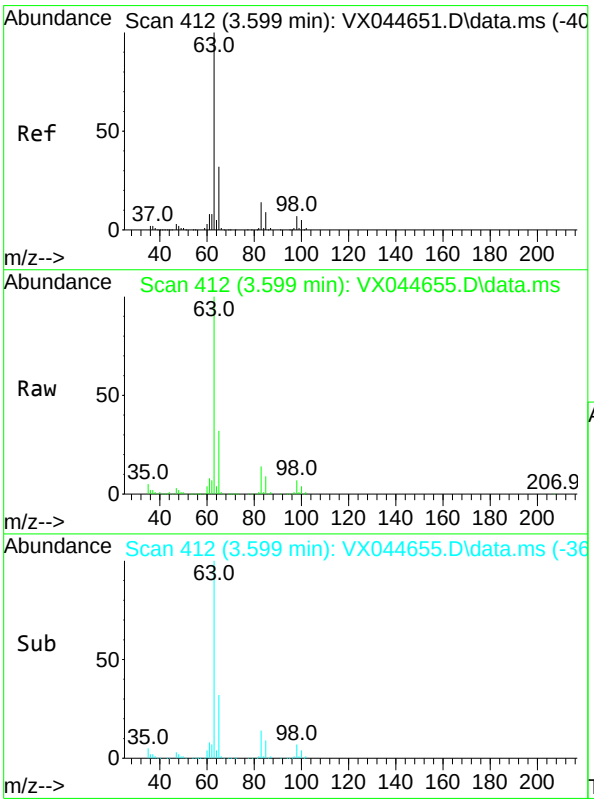
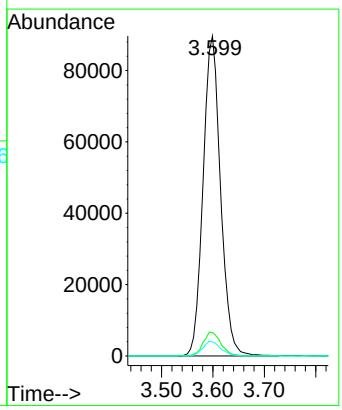
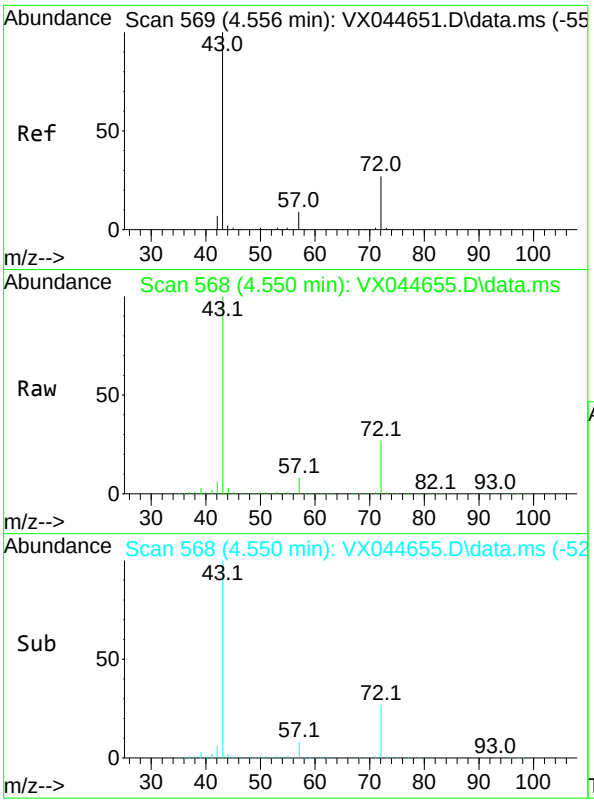



#24
1,1-Dichloroethane
Concen: 50.150 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 63 Resp: 211436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.6 | 10.9 |
| 100 | 4.4 | 2.5 | 7.5 |






#25
2-Butanone
Concen: 265.596 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 42308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.8 | 21.7 | 32.5 |

**Instrument :**
MSVOA_X
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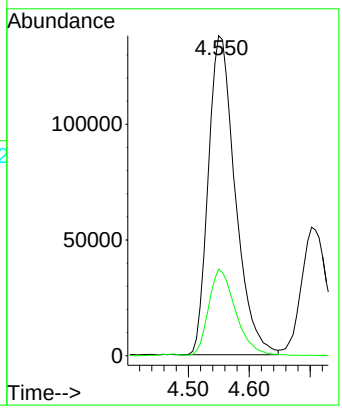
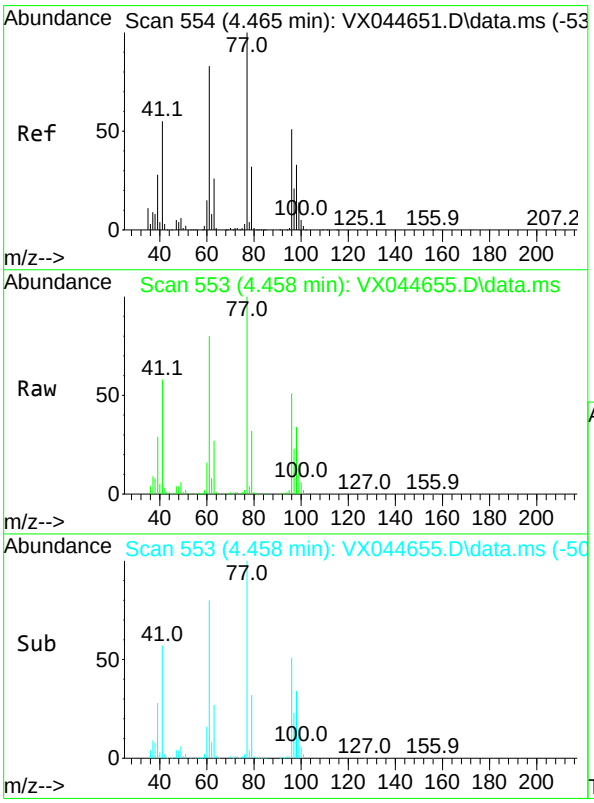
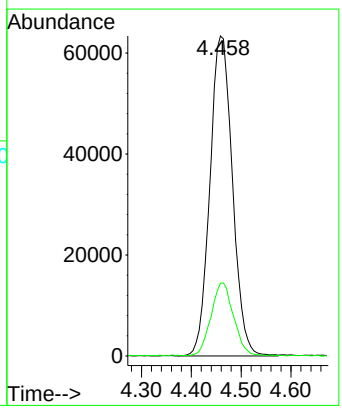


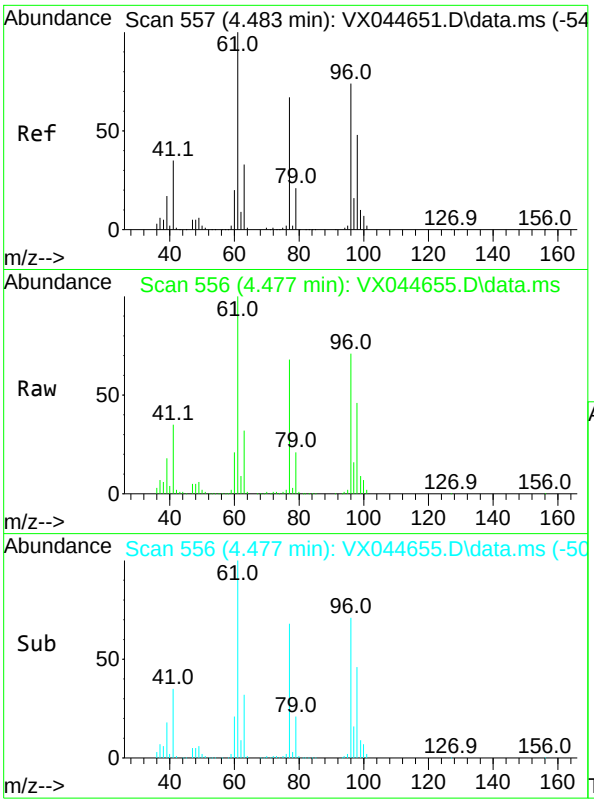




#26
2,2-Dichloropropane
Concen: 48.697 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 77 Resp: 198981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.6 | 10.9 | 32.6 |

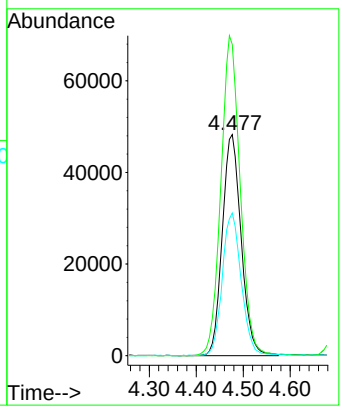





#27
cis-1,2-Dichloroethene
Concen: 48.831 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 96 Resp: 13471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.4 | 0.0 | 296.0 |
| 98 | 64.7 | 0.0 | 130.0 |




**Instrument :**
MSVOA_X
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ICVVX011525

**Manual Integrations**
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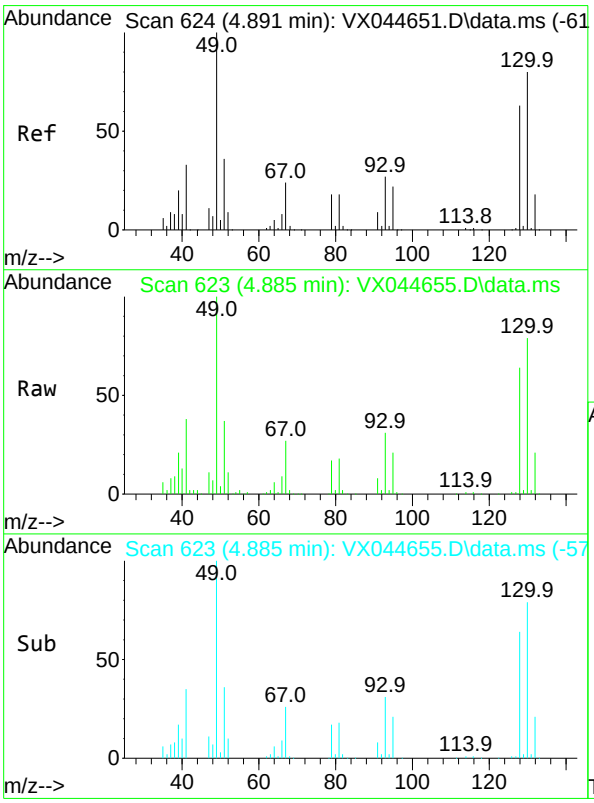
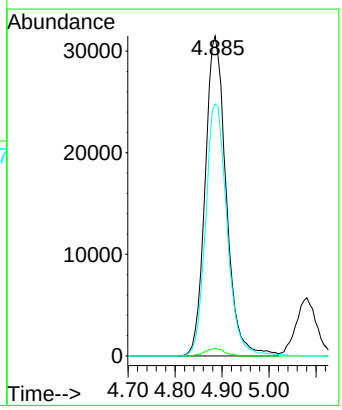
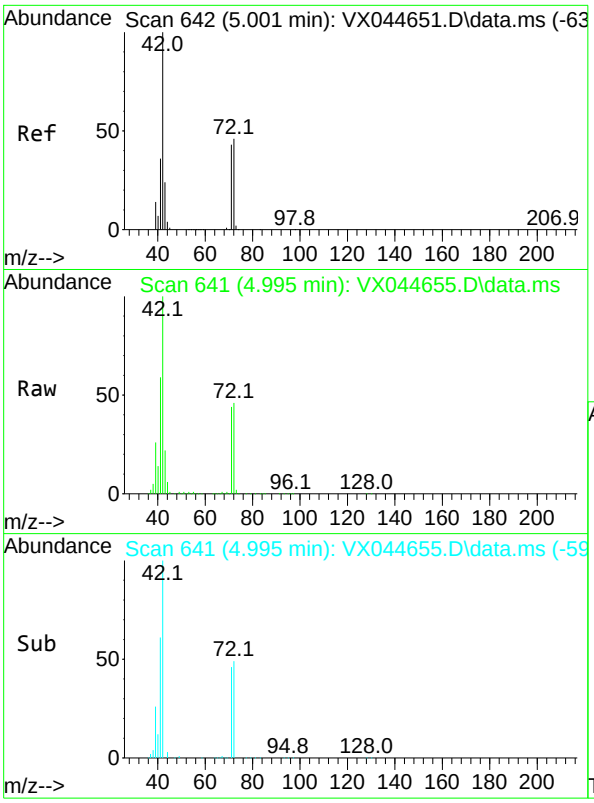



#28
Bromochloromethane
Concen: 49.545 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 49 Resp: 97608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.4 |
| 130 | 80.4 | 63.4 | 95.2 |

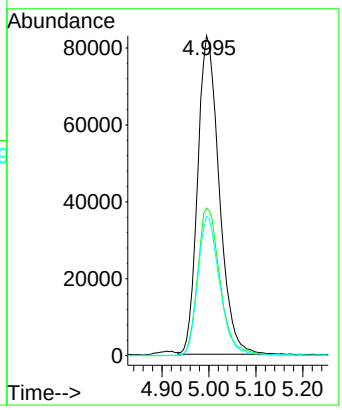





#29
Tetrahydrofuran
Concen: 256.578 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 42 Resp: 26363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.3 | 38.2 | 57.4 |
| 71 | 44.3 | 35.3 | 52.9 |

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MSVOA_X
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**Manual Integrations**
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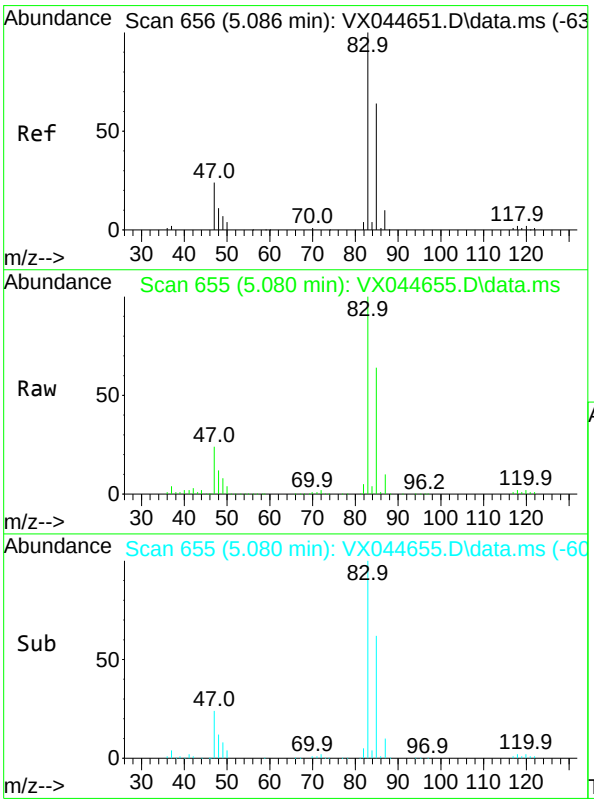
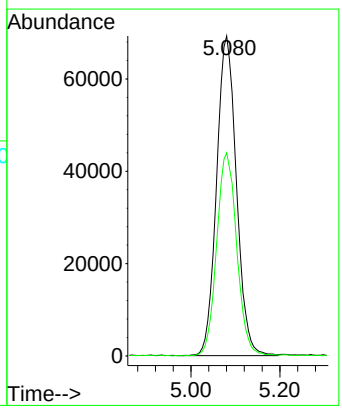
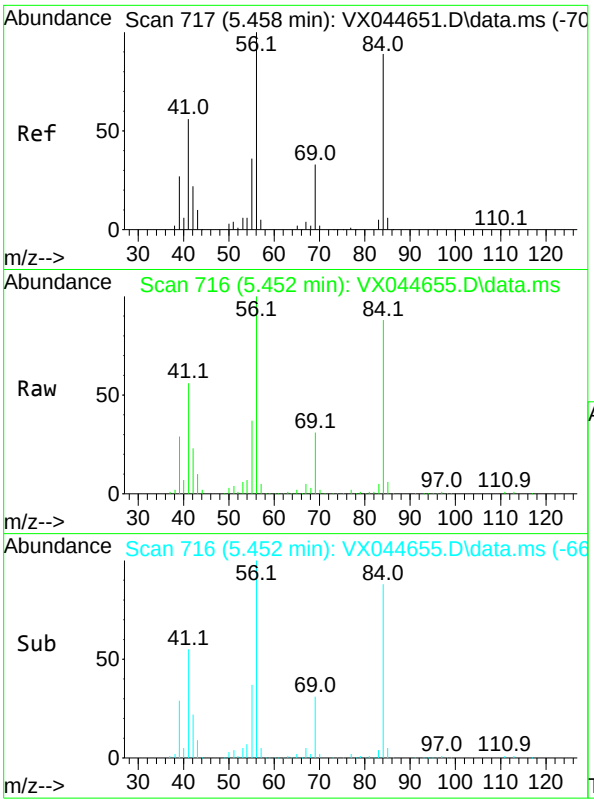



#30
Chloroform
Concen: 50.304 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 83 Resp: 214034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 51.2 | 76.8 |

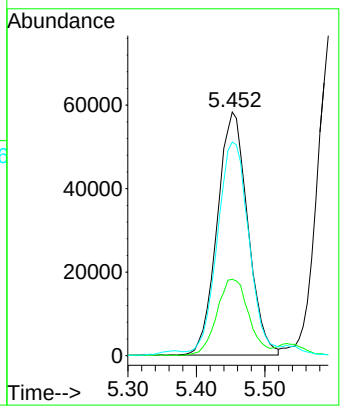





#31
Cyclohexane
Concen: 52.878 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 56 Resp: 18030

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.2 | 26.8 | 40.2 |
| 84 | 86.0 | 71.0 | 106.4 |




**Instrument :**
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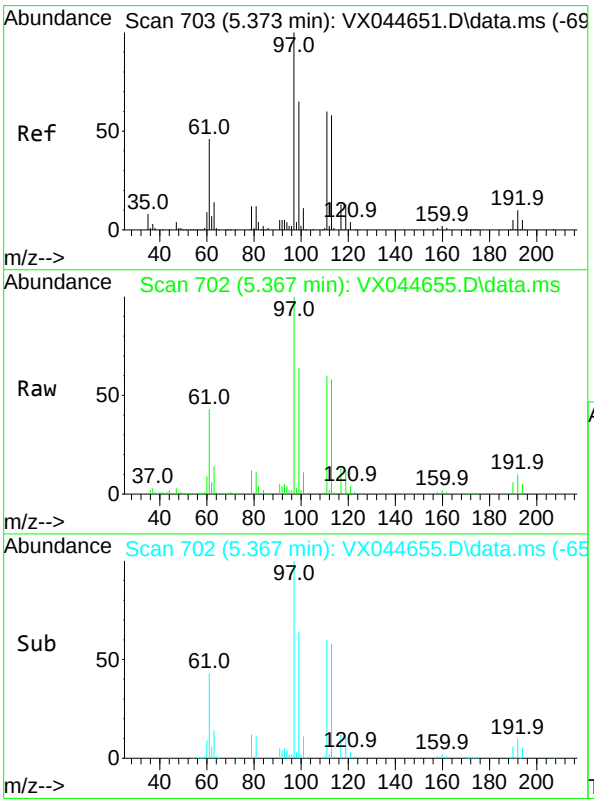
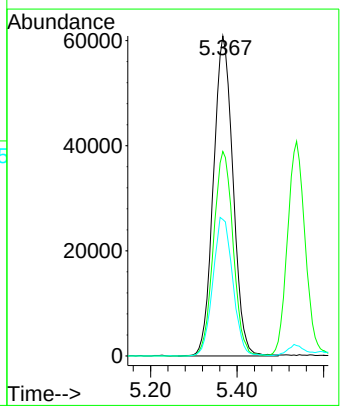
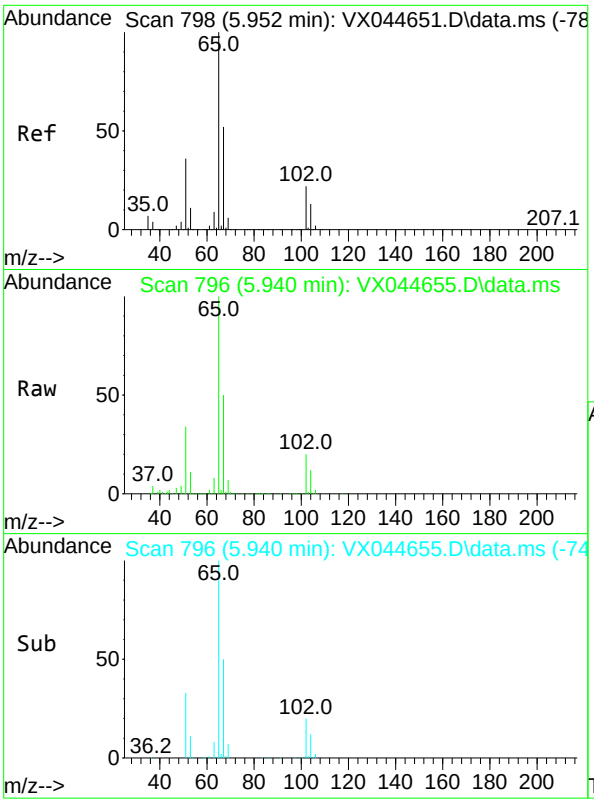



#32
1,1,1-Trichloroethane
Concen: 48.859 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 97 Resp: 191114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.6 | 77.4 |
| 61 | 43.9 | 35.6 | 53.4 |

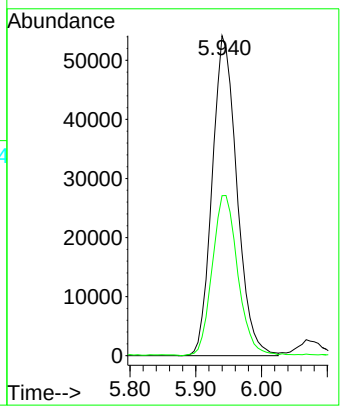





#33
1,2-Dichloroethane-d4
Concen: 52.363 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 65 Resp: 14179

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.0 | 0.0 | 103.4 |




**Instrument :**
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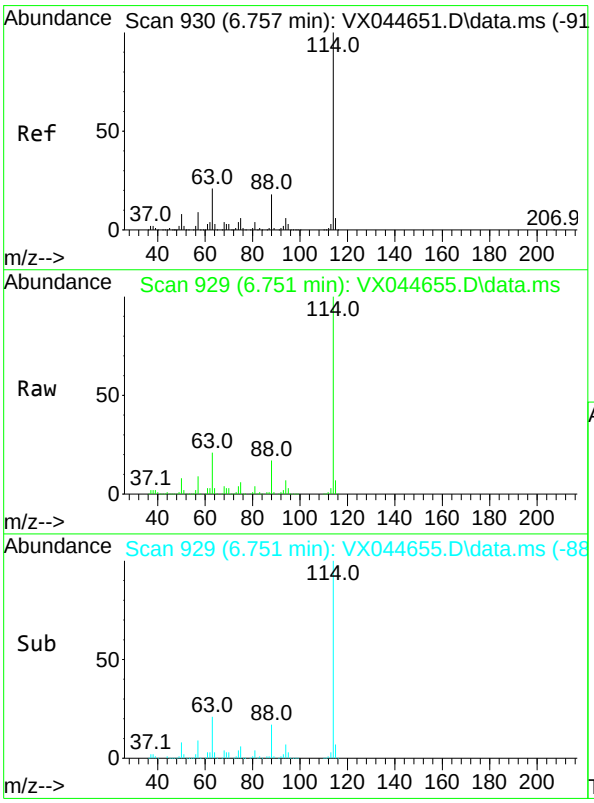
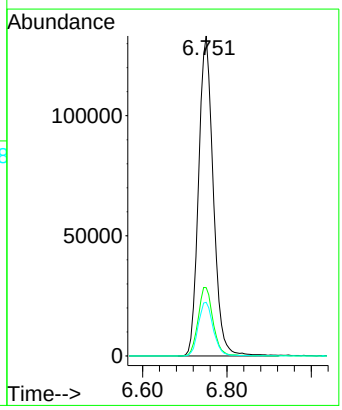
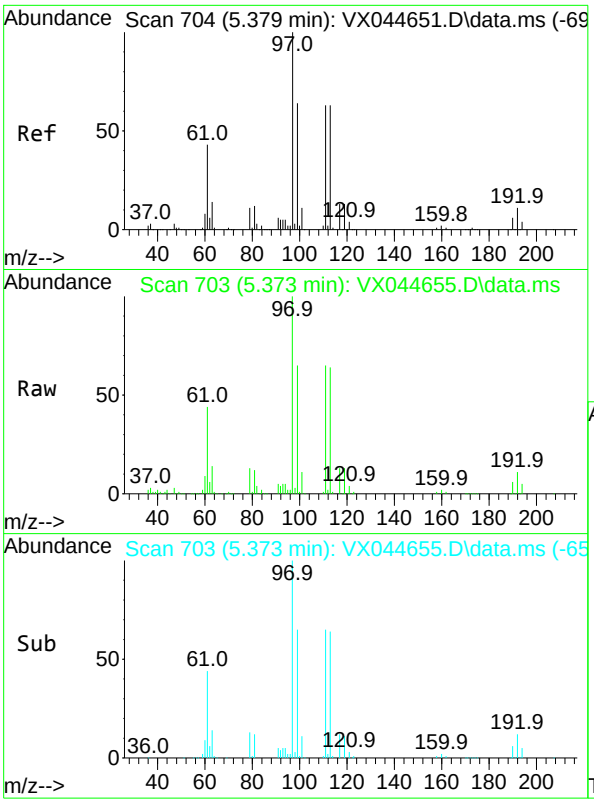



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:114 Resp: 323521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.3 | 0.0 | 43.0 |
| 88 | 16.8 | 0.0 | 35.4 |

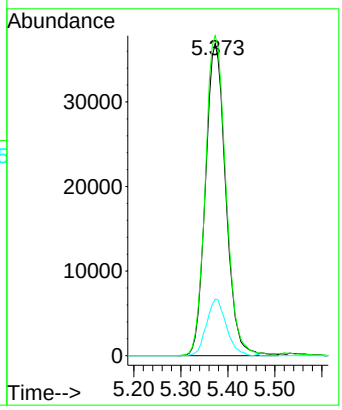





#35
Dibromofluoromethane
Concen: 53.683 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:113 Resp: 11033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.5 | 81.6 | 122.4 |
| 192 | 17.7 | 14.4 | 21.6 |




**Instrument :**
MSVOA_X
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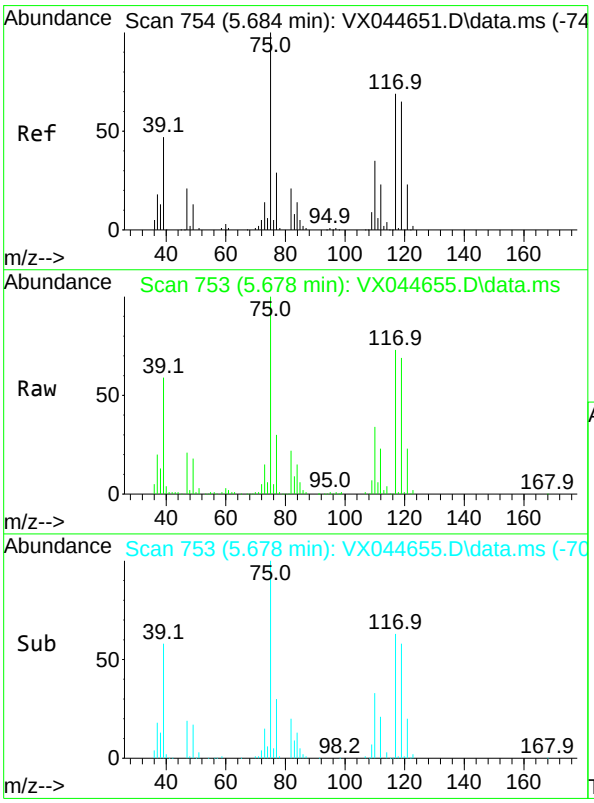
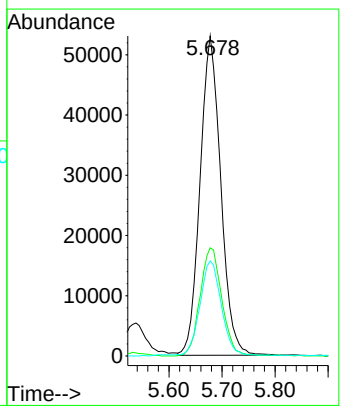
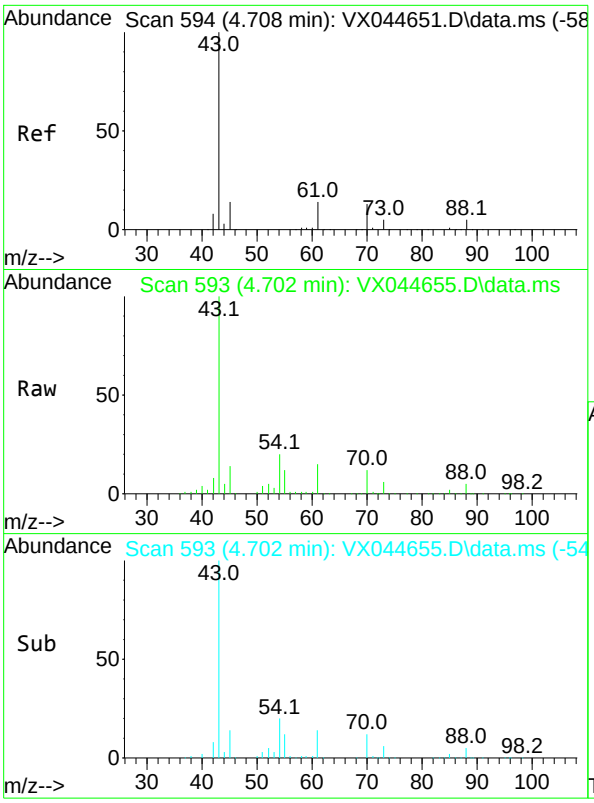



#36
1,1-Dichloropropene
Concen: 50.294 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 75 Resp: 143891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.5 | 17.9 | 53.8 |
| 77 | 30.2 | 24.5 | 36.7 |






#37
Ethyl Acetate
Concen: 54.526 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

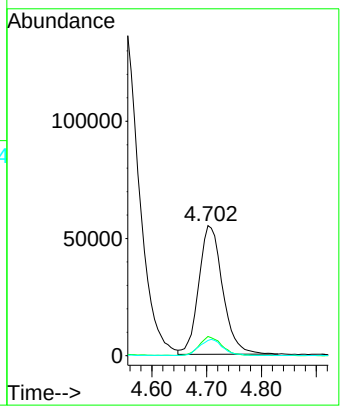
Tgt Ion: 43 Resp: 16612

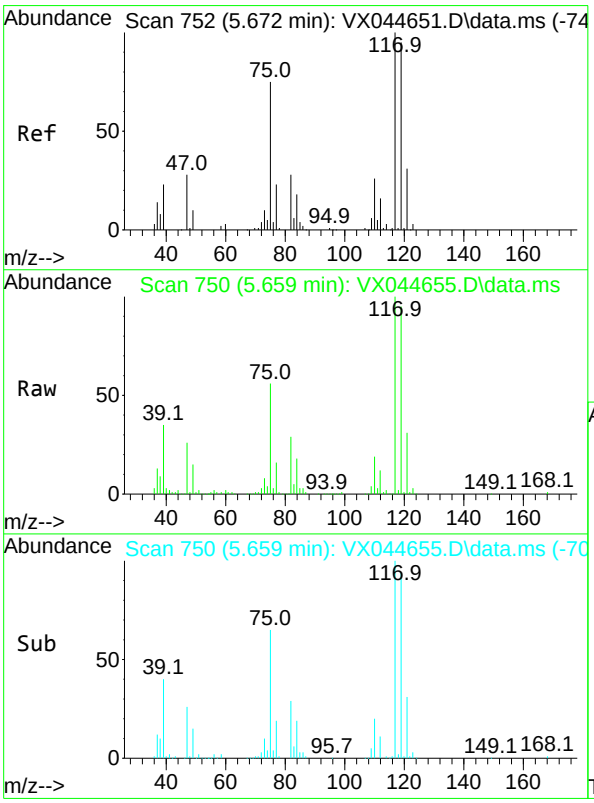
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 10.9 | 16.3 |
| 70 | 12.2 | 10.1 | 15.1 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

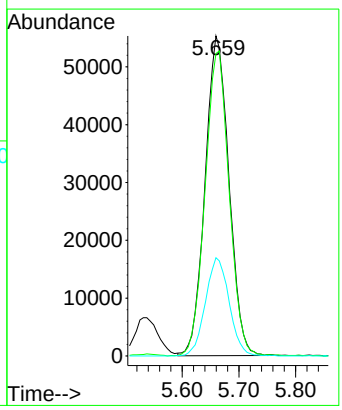


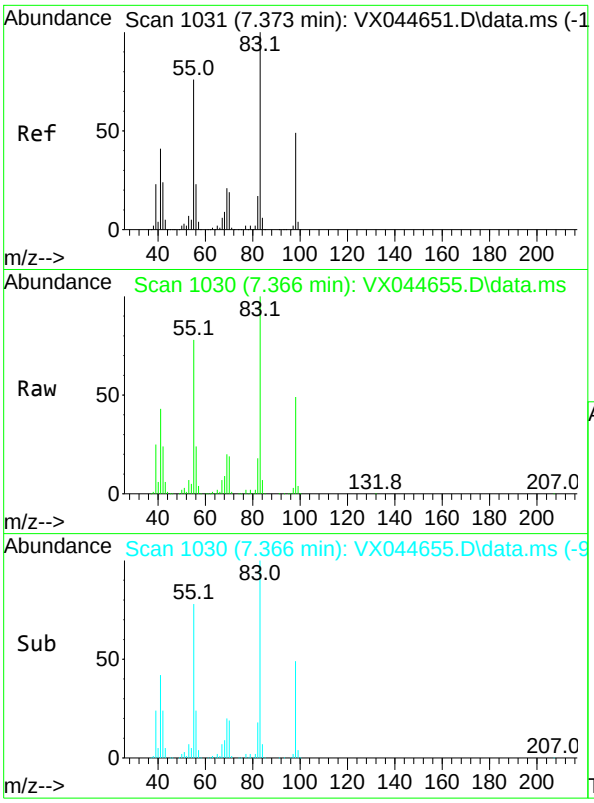




#38
Carbon Tetrachloride
Concen: 50.287 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:117 Resp: 161829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 76.0 | 114.0 |
| 121 | 30.8 | 24.6 | 36.8 |






#39
Methylcyclohexane
Concen: 52.520 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

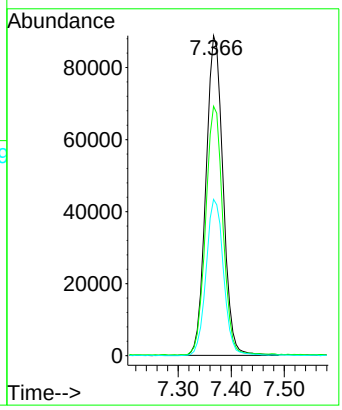
Tgt Ion: 83 Resp: 19947

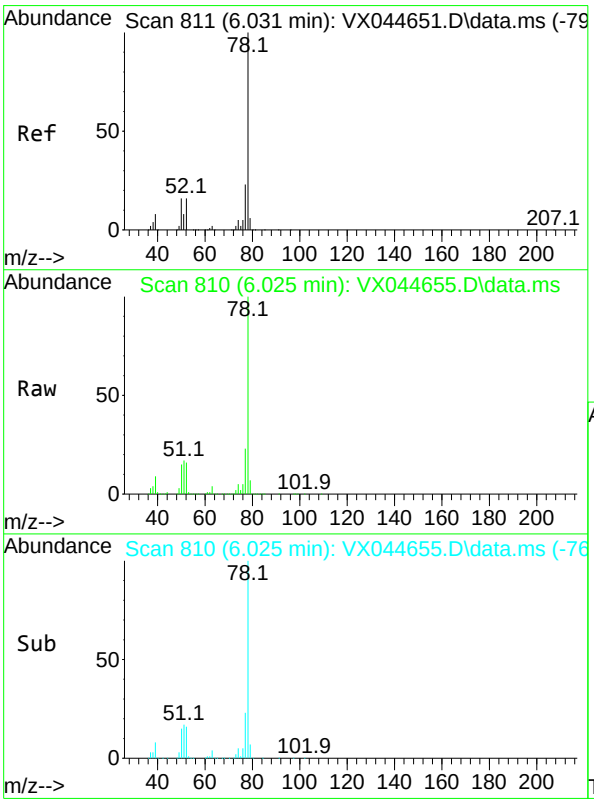
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.8 | 60.5 | 90.7 |
| 98 | 48.9 | 39.0 | 58.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

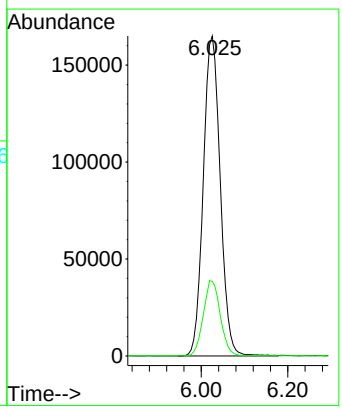


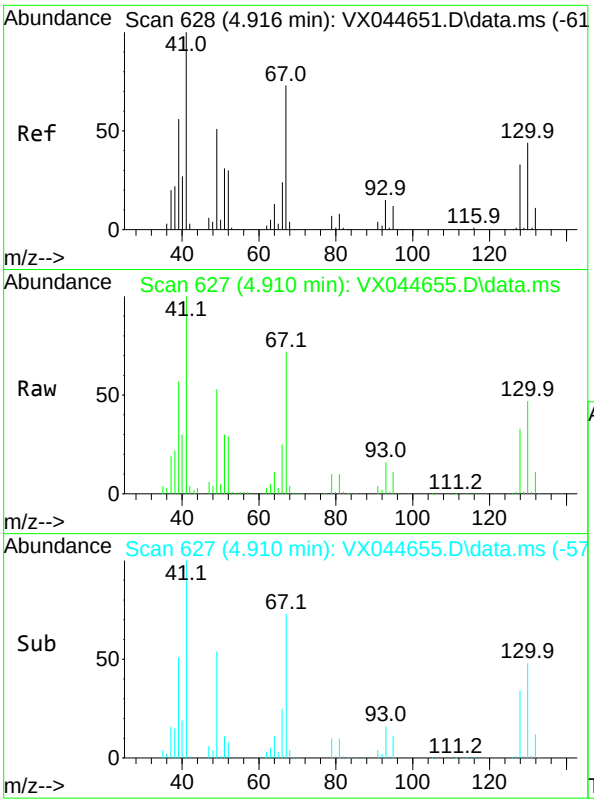




#40
Benzene
Concen: 50.610 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 78 Resp: 448684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 18.7 | 28.1 |

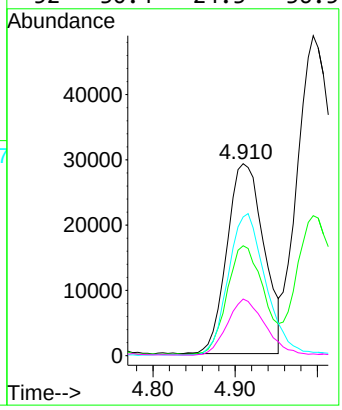





#41
Methacrylonitrile
Concen: 51.342 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 41 Resp: 9115

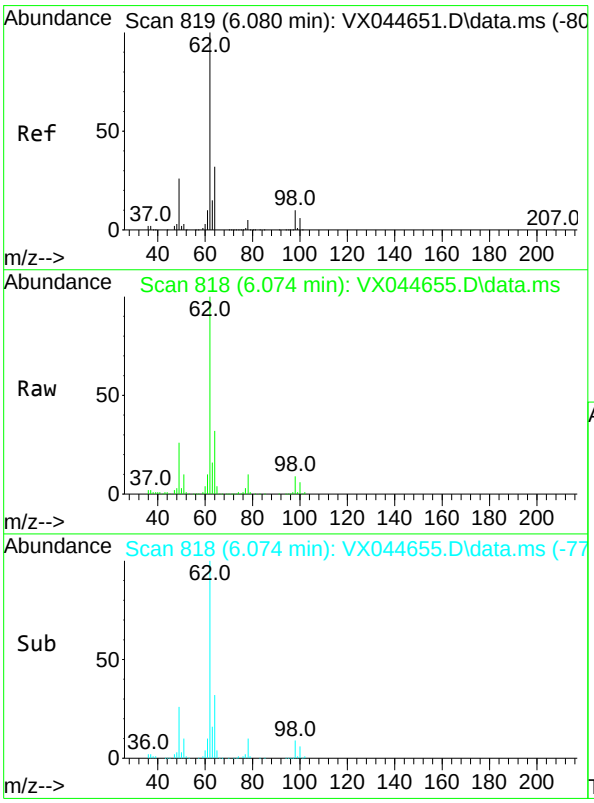
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 56.2 | 44.4 | 66.6 |
| 67 | 75.5 | 60.6 | 90.8 |
| 52 | 30.4 | 24.3 | 36.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

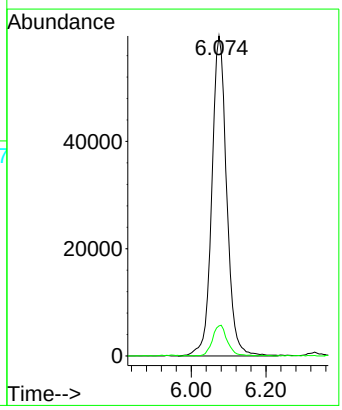
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

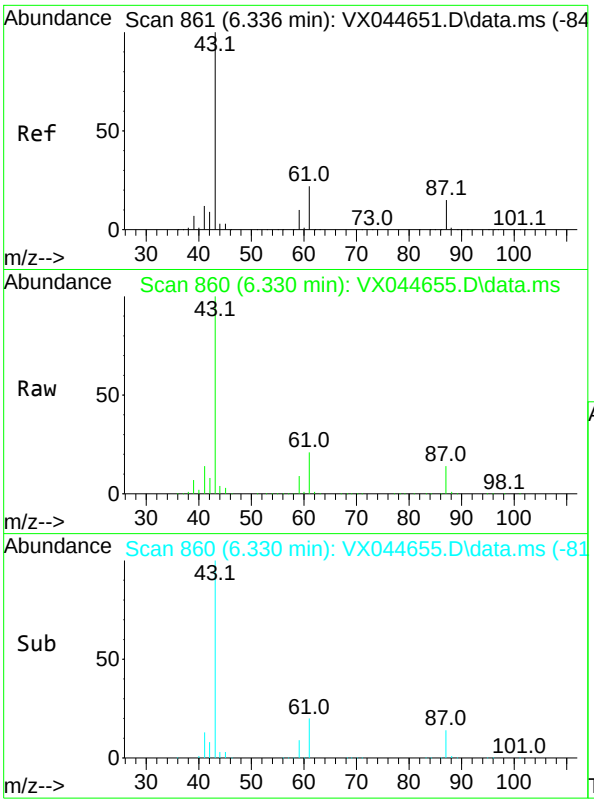



#42
1,2-Dichloroethane
Concen: 50.902 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 62 Resp: 164707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.7 | 0.0 | 19.4 |






#43
Isopropyl Acetate
Concen: 50.871 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 28512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.9 | 16.6 | 24.8 |
| 87 | 13.8 | 11.0 | 16.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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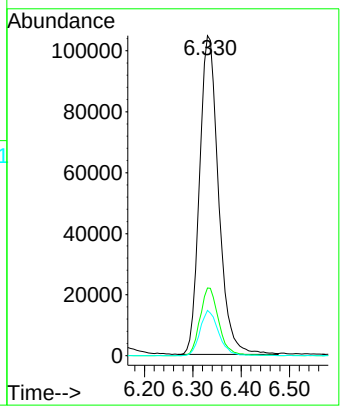
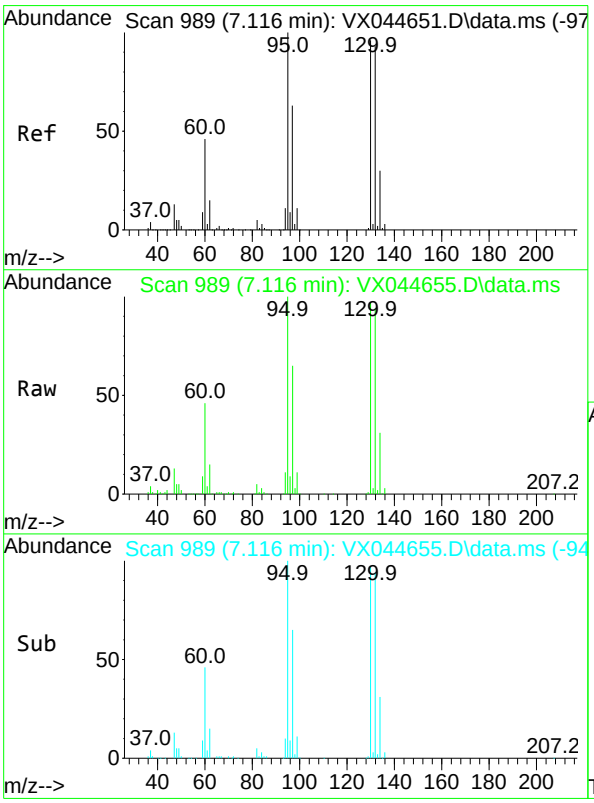
Supervised By :Semsettin Yesilyurt 01/16/2025

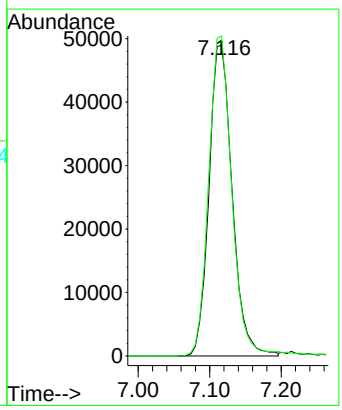


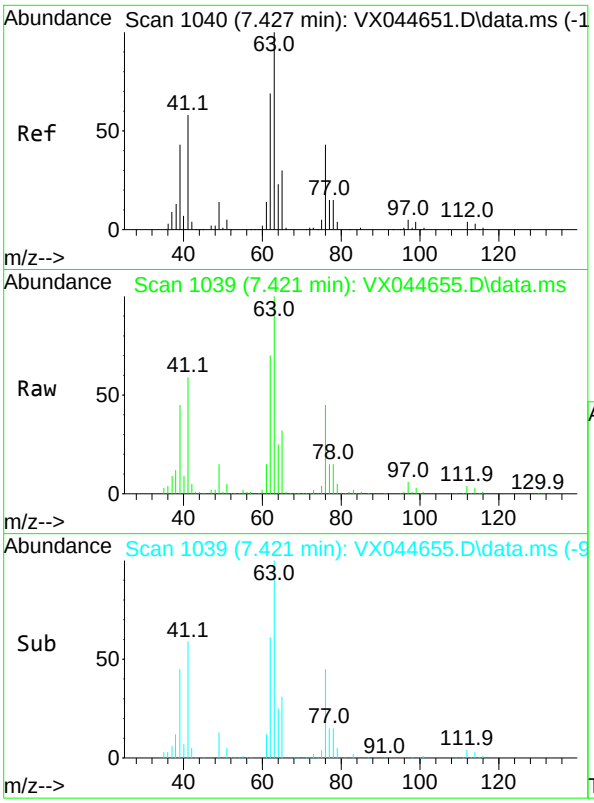




#44
Trichloroethene
Concen: 51.887 ug/l
RT: 7.116 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:130 Resp: 110588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 103.0 | 0.0 | 208.2 |

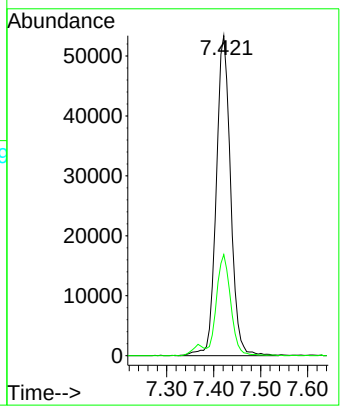





#45
1,2-Dichloropropane
Concen: 51.011 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 63 Resp: 11383

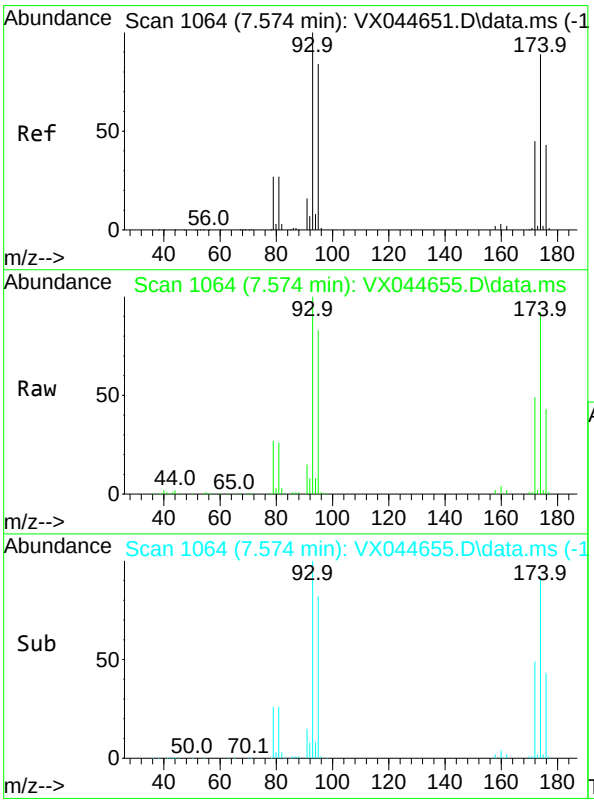
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.6 | 24.2 | 36.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

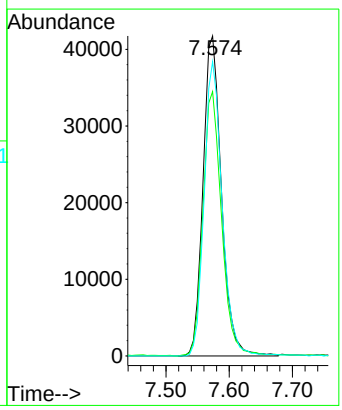
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

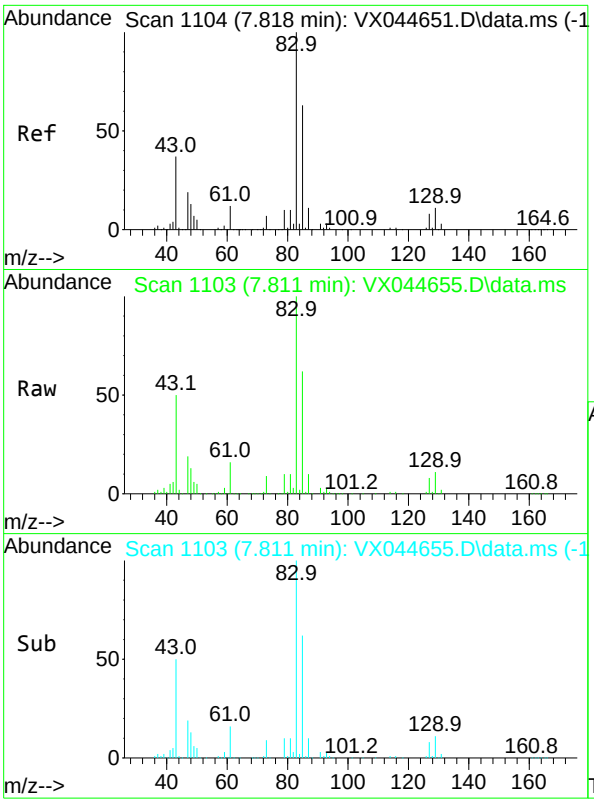



#46
Dibromomethane
Concen: 49.939 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 93 Resp: 84838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.4 | 66.4 | 99.6 |
| 174 | 90.0 | 72.0 | 108.0 |

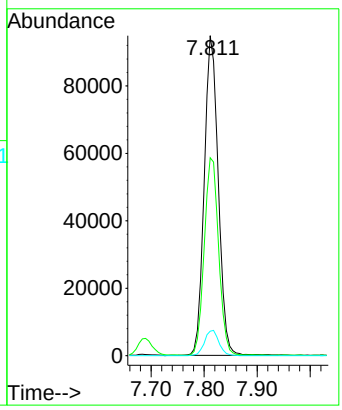





#47
Bromodichloromethane
Concen: 50.029 ug/l
RT: 7.811 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 83 Resp: 17429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.7 | 50.1 | 75.1 |
| 127 | 7.7 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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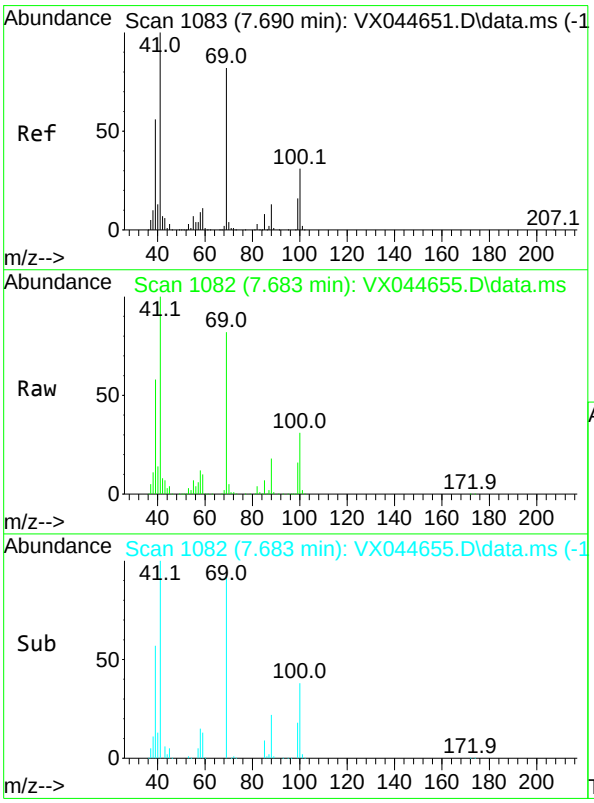
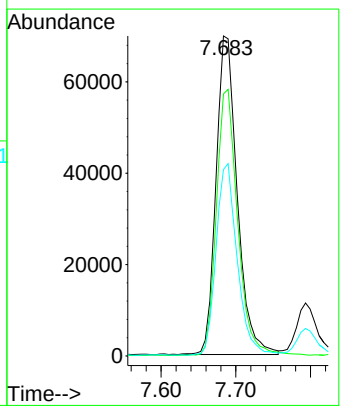
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

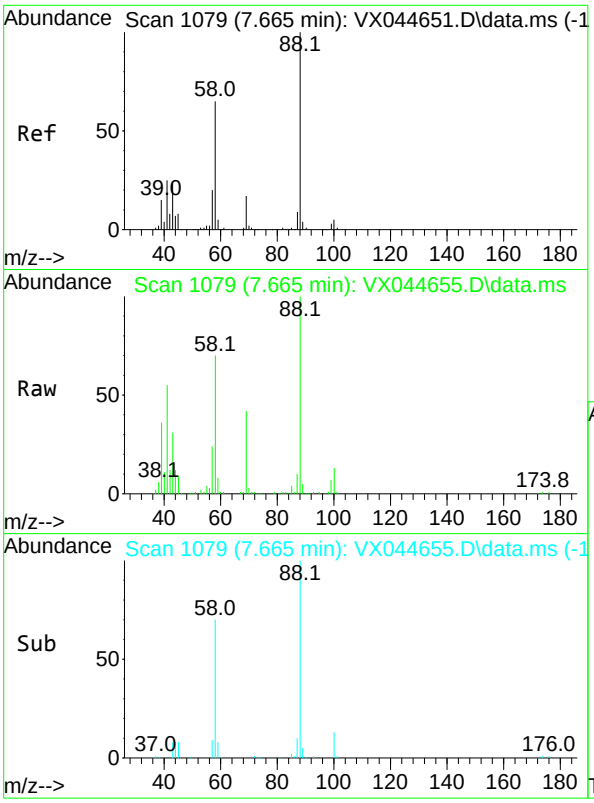



#48
Methyl methacrylate
Concen: 52.890 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 41 Resp: 137603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.2 | 66.8 | 100.2 |
| 39 | 59.6 | 47.4 | 71.0 |

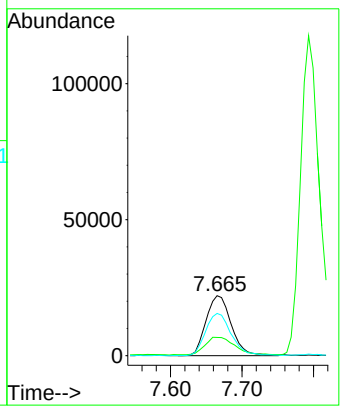





#49
1,4-Dioxane
Concen: 992.095 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 88 Resp: 5385

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.2 | 27.0 | 40.4 |
| 58 | 72.4 | 55.8 | 83.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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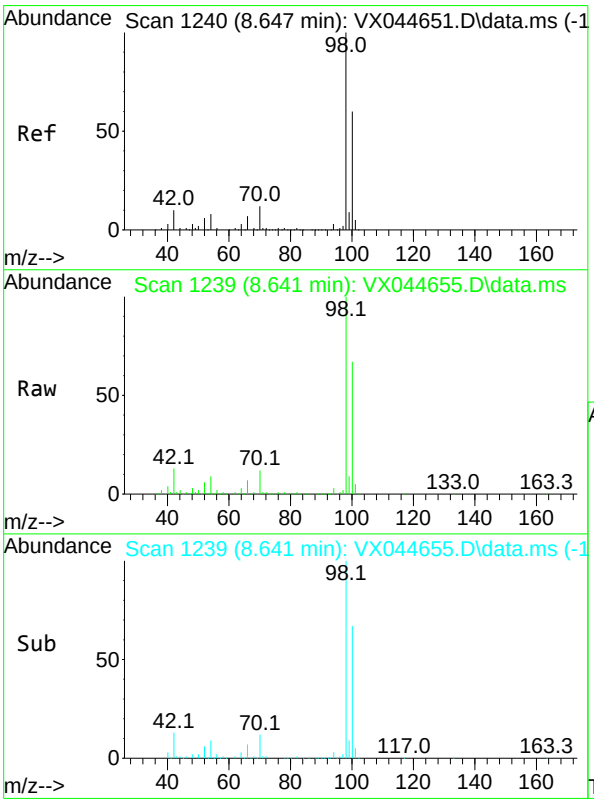
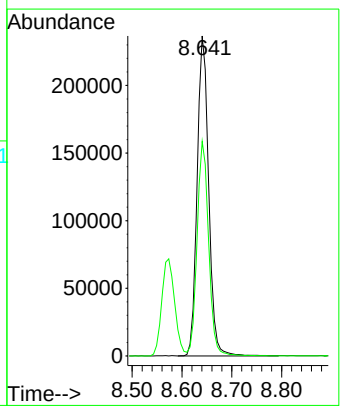
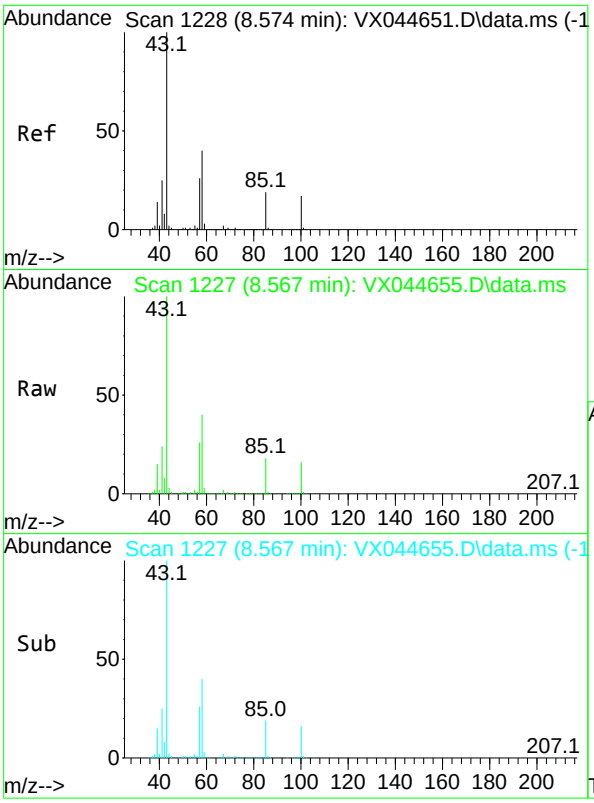



#50
Toluene-d8
Concen: 53.113 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 98 Resp: 380624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.9 | 53.2 | 79.8 |






#51
4-Methyl-2-Pentanone
Concen: 251.778 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 77985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.9 | 31.9 | 47.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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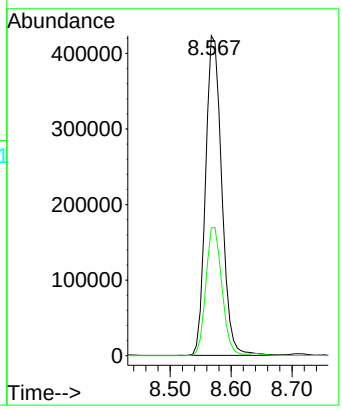
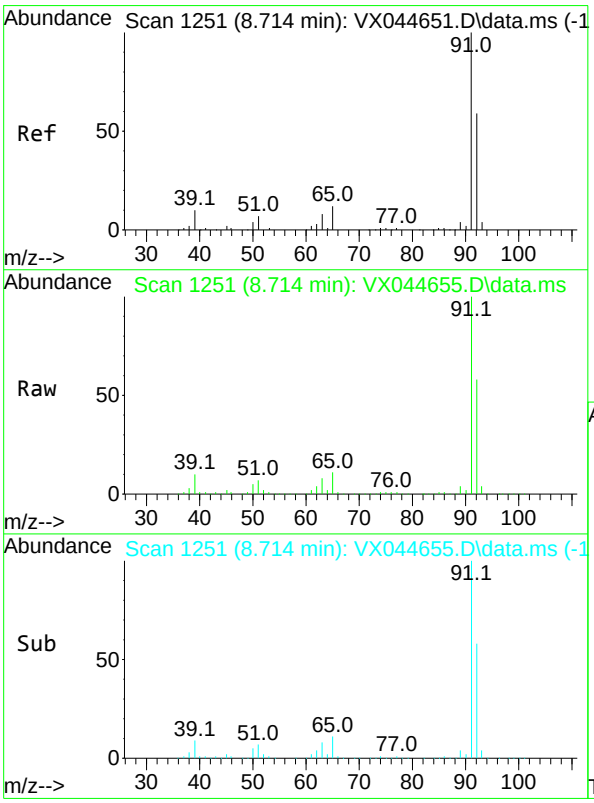
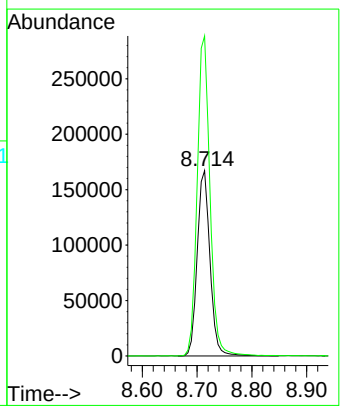


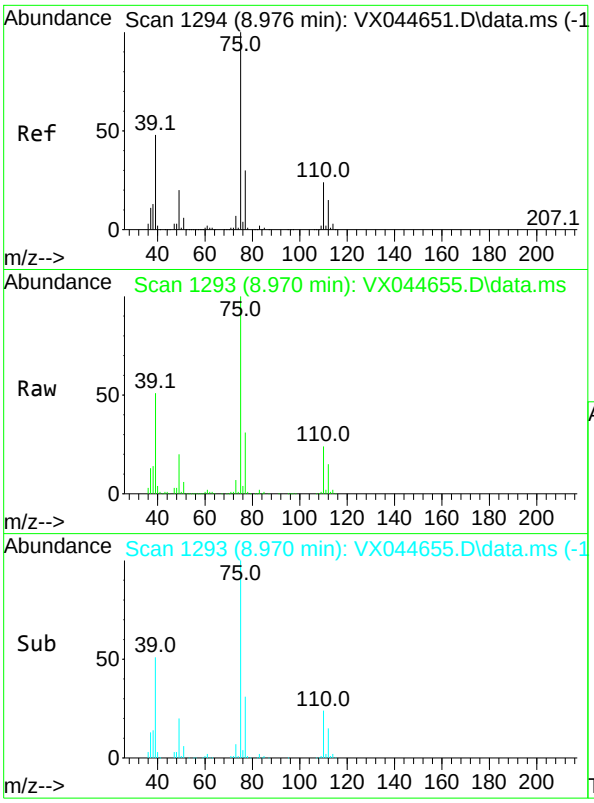




#52
Toluene
Concen: 49.955 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 92 Resp: 271071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.7 | 135.7 | 203.5 |

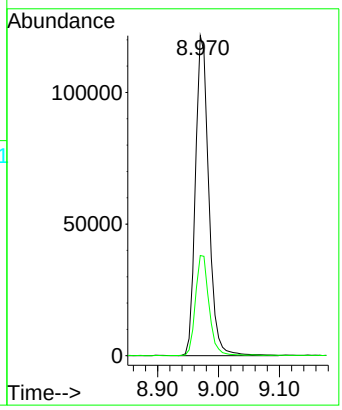





#53
t-1,3-Dichloropropene
Concen: 51.300 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 75 Resp: 18465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 24.4 | 36.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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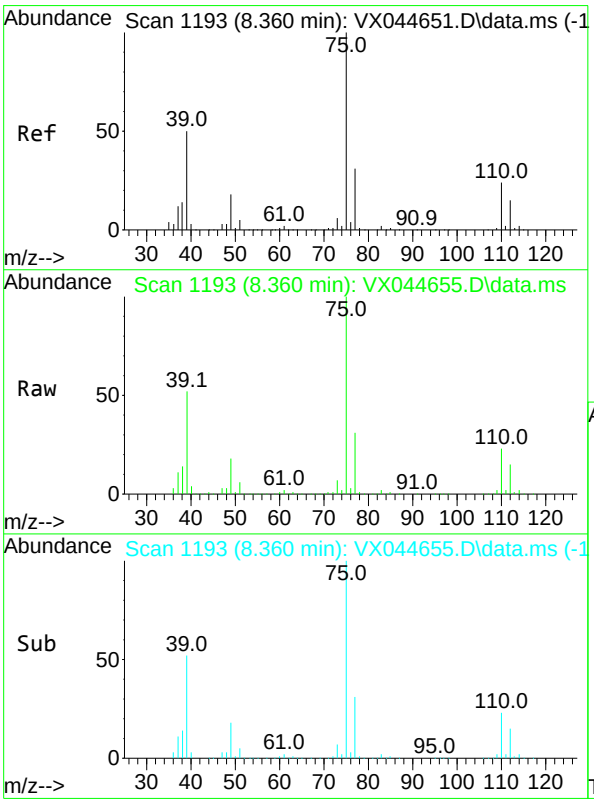
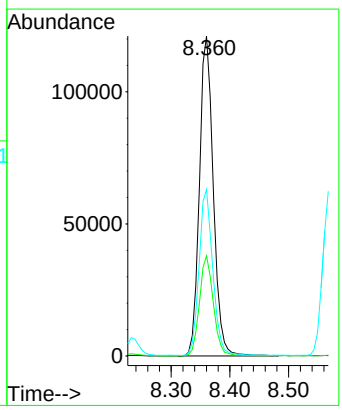
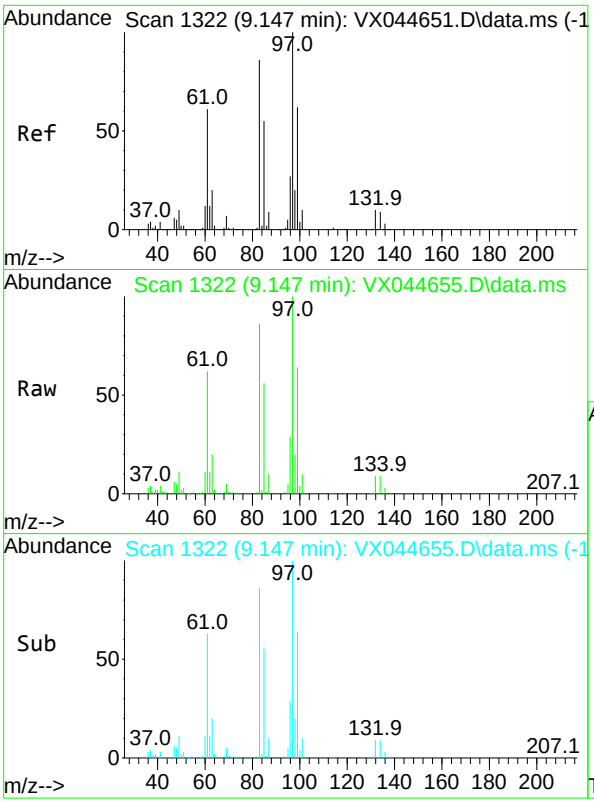



#54
cis-1,3-Dichloropropene
Concen: 51.049 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 75 Resp: 199240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.1 | 37.7 |
| 39 | 51.9 | 40.3 | 60.5 |

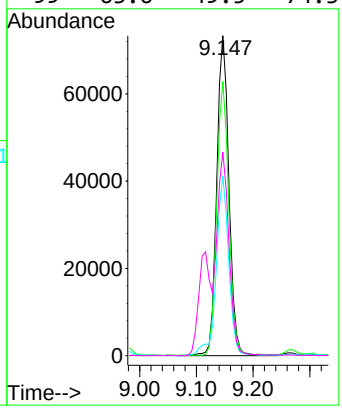





#55
1,1,2-Trichloroethane
Concen: 50.085 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 97 Resp: 10995

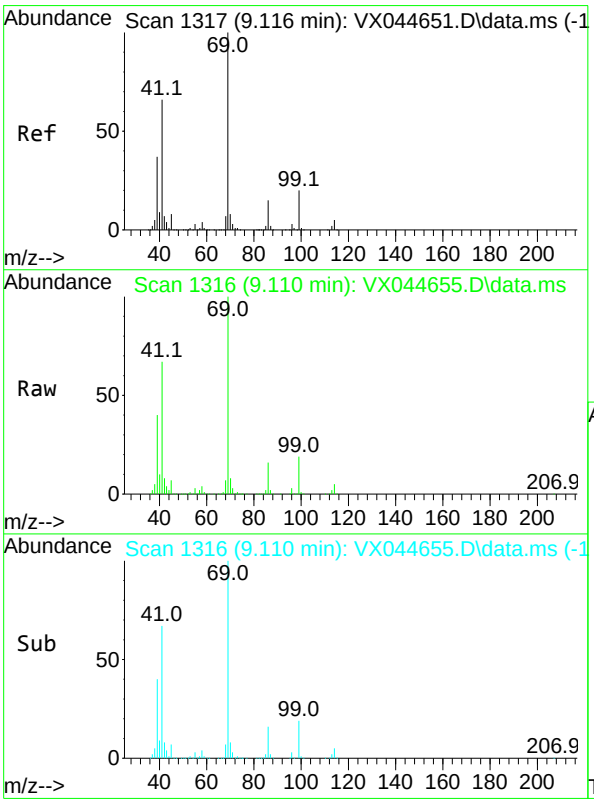
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.6 | 68.8 | 103.2 |
| 85 | 56.2 | 43.7 | 65.5 |
| 99 | 63.6 | 49.5 | 74.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

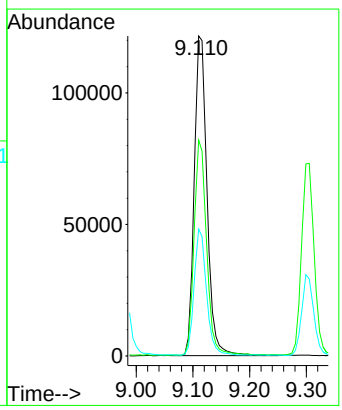
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

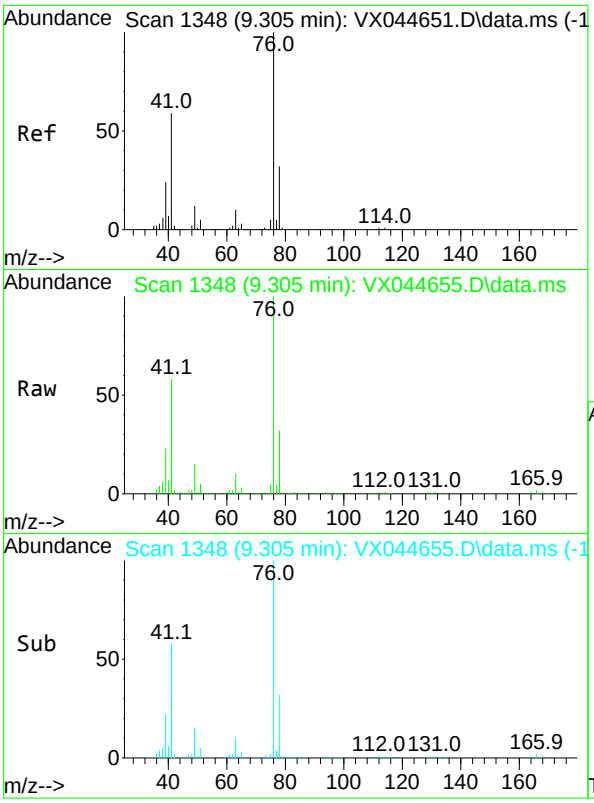



#56
Ethyl methacrylate
Concen: 50.595 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 69 Resp: 190986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.0 | 53.2 | 79.8 |
| 39 | 38.4 | 30.2 | 45.2 |

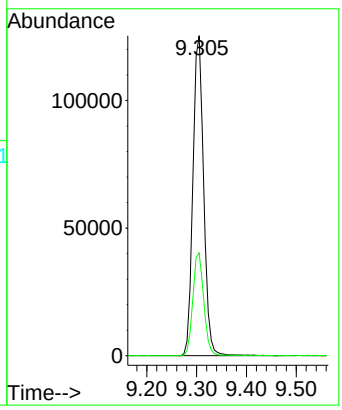





#57
1,3-Dichloropropane
Concen: 50.129 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 76 Resp: 18740

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.9 | 26.0 | 39.0 |




**Instrument :**
MSVOA_X
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ICVVX011525

**Manual Integrations**
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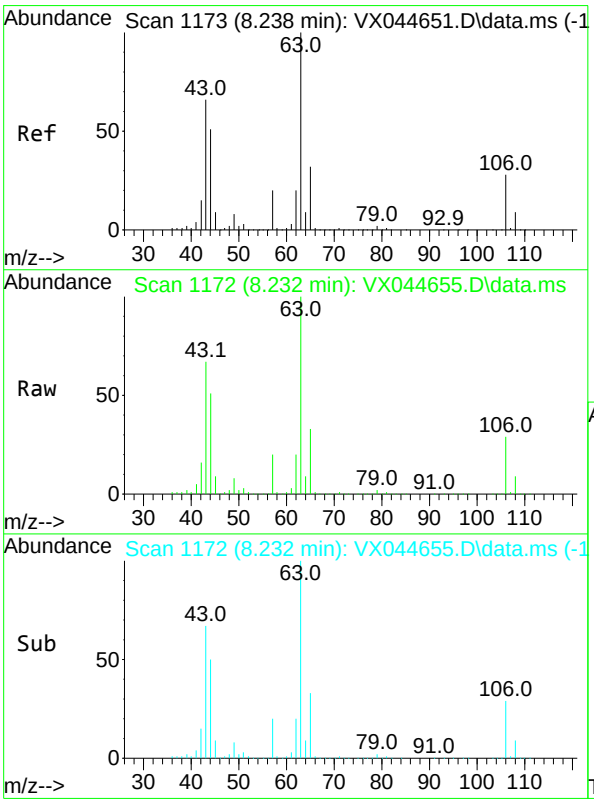
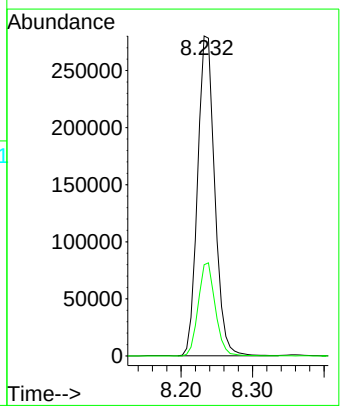
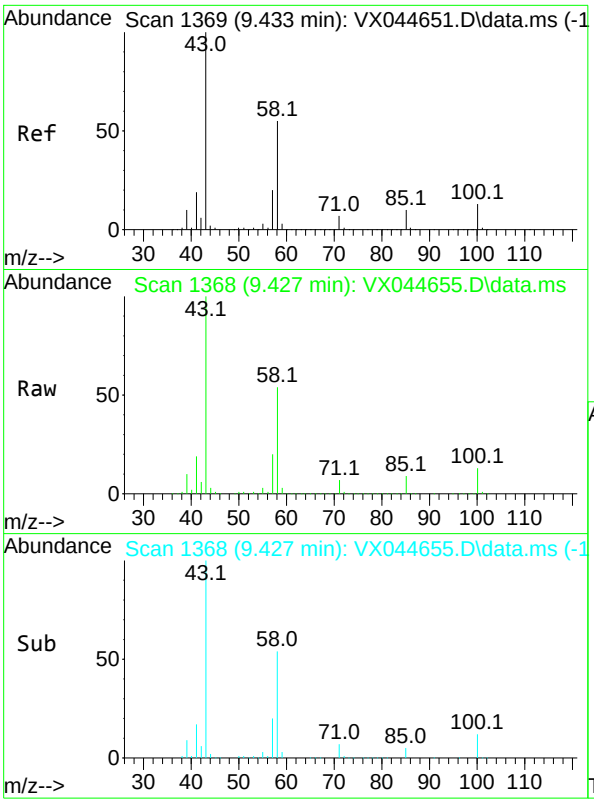



#58
2-Chloroethyl Vinyl ether
Concen: 251.852 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 63 Resp: 466737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.9 | 23.0 | 34.6 |






#59
2-Hexanone
Concen: 253.010 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 57654

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.4 | 27.8 | 83.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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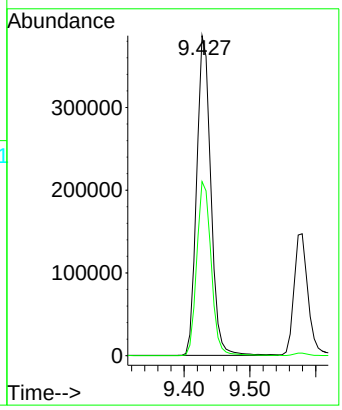
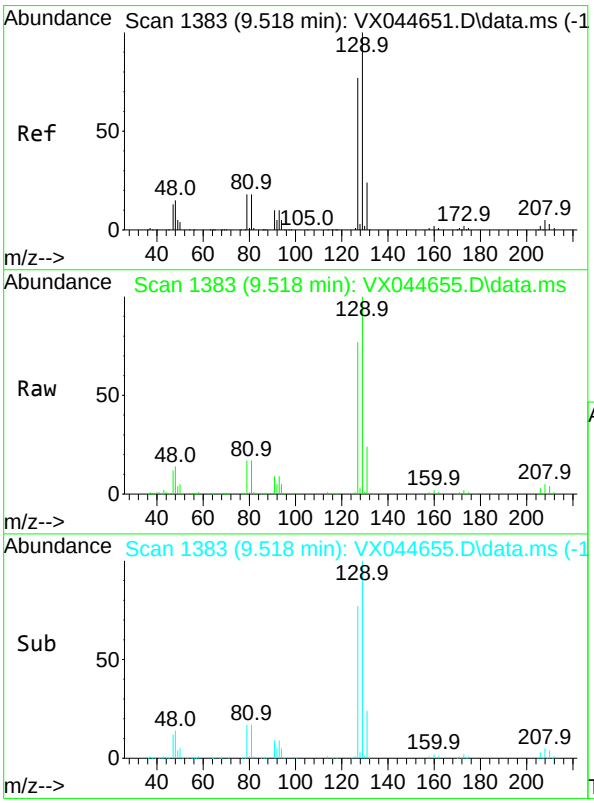
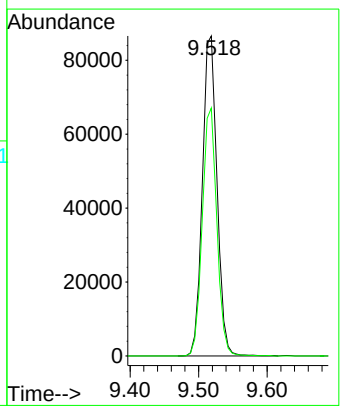


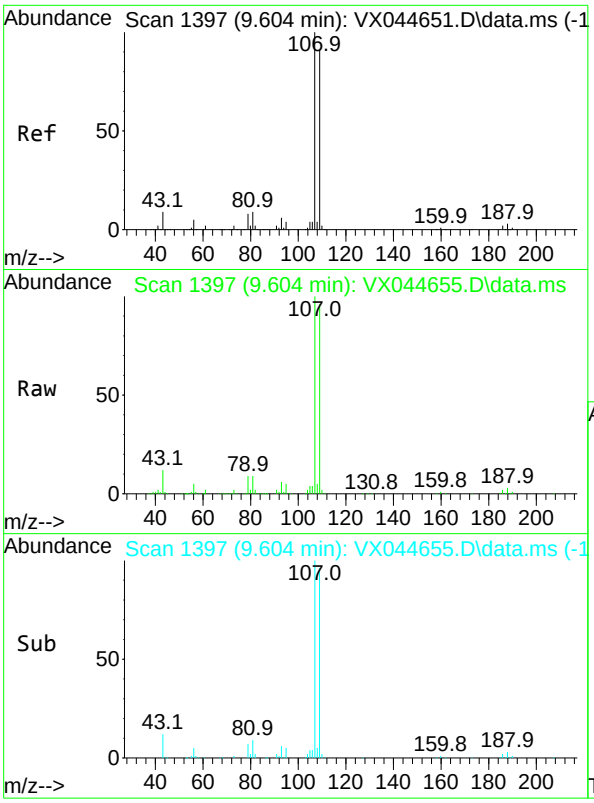




#60
Dibromochloromethane
Concen: 49.957 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:129 Resp: 128727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.2 | 38.5 | 115.5 |

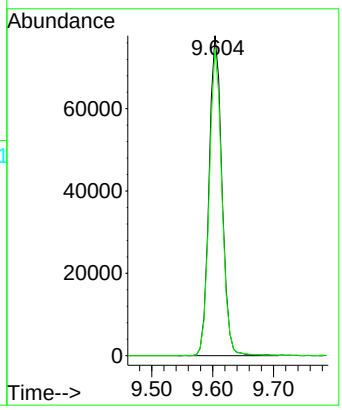





#61
1,2-Dibromoethane
Concen: 49.693 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:107 Resp: 11433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.5 | 75.3 | 112.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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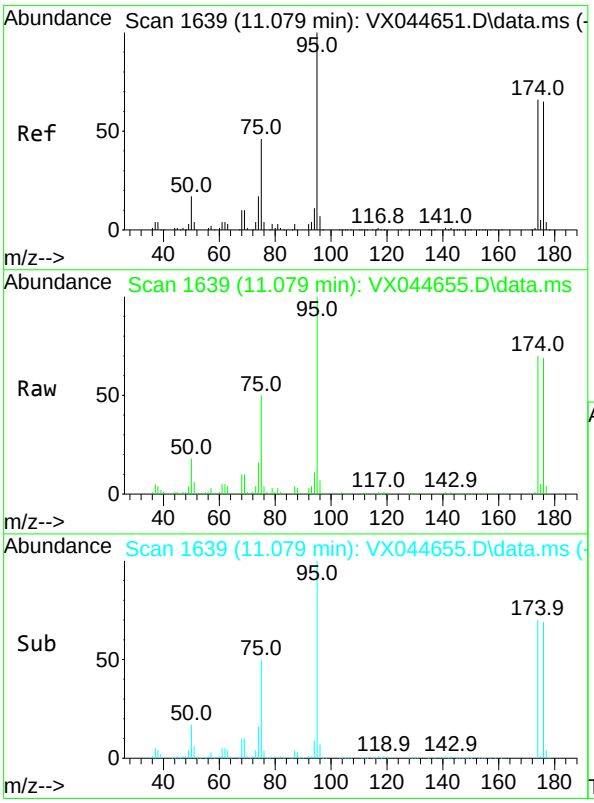
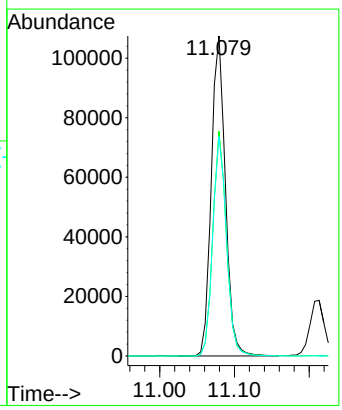
Supervised By :Semsettin Yesilyurt 01/16/2025

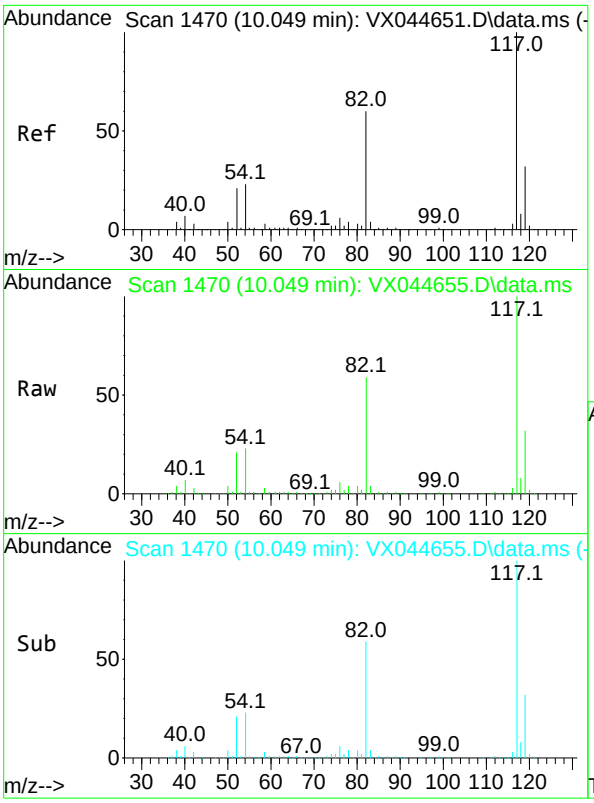



#62
4-Bromofluorobenzene
Concen: 52.693 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 95 Resp: 140770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.6 | 0.0 | 133.0 |
| 176 | 67.1 | 0.0 | 129.4 |

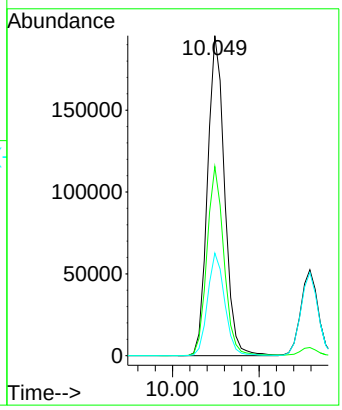





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:117 Resp: 26687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.1 | 47.6 | 71.4 |
| 119 | 32.1 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
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ICVVX011525

**Manual Integrations**
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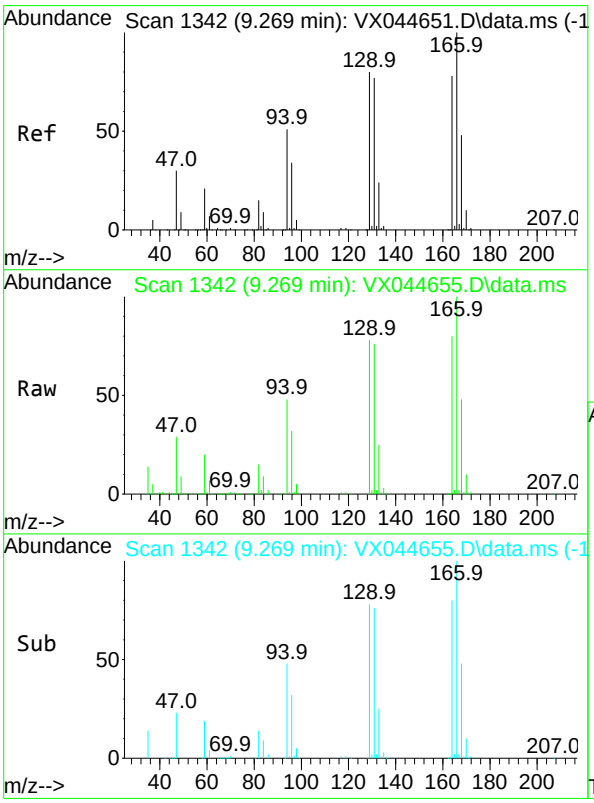
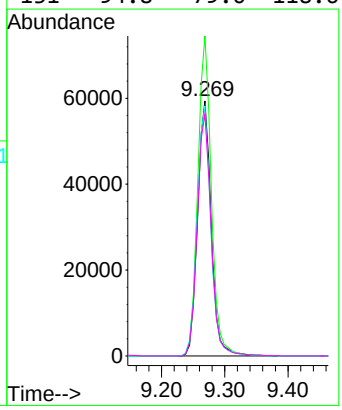
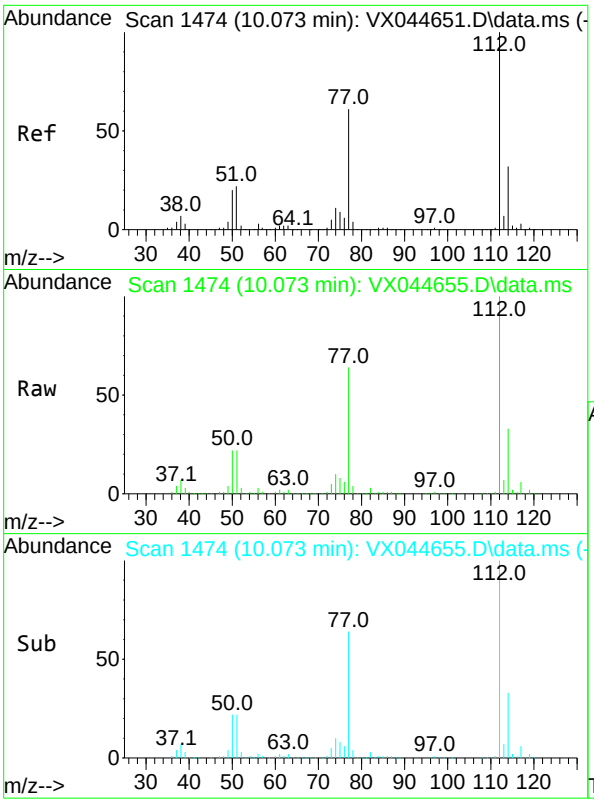



#64
Tetrachloroethene
Concen: 53.384 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:164 Resp: 89460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.5 | 102.0 | 153.0 |
| 129 | 98.0 | 81.1 | 121.7 |
| 131 | 94.8 | 79.0 | 118.6 |

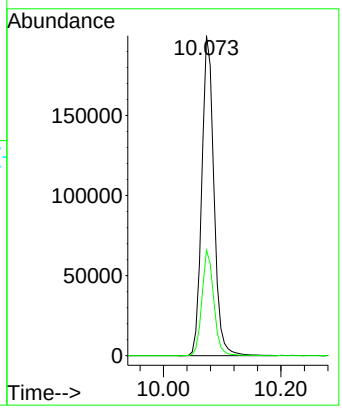





#65
Chlorobenzene
Concen: 50.667 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:112 Resp: 28720

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.9 | 25.3 | 37.9 |




**Instrument :**
MSVOA_X
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ICVVX011525

**Manual Integrations**
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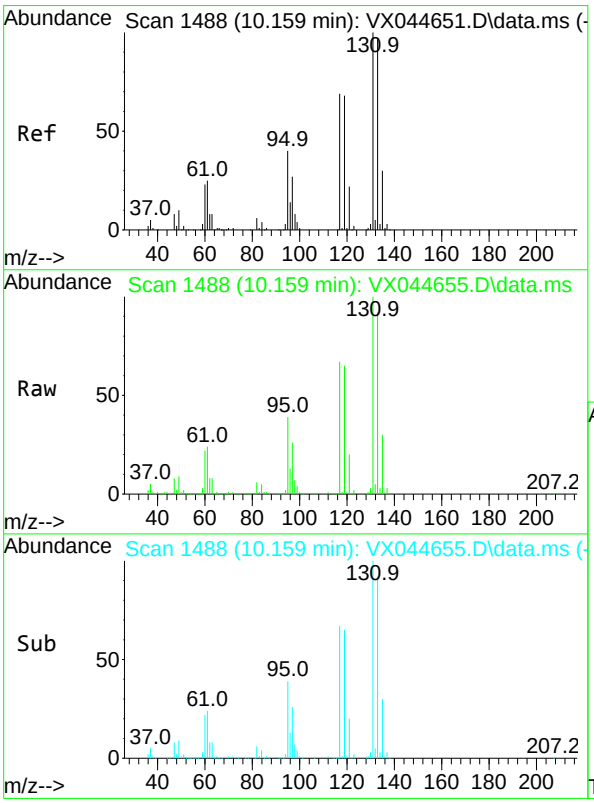
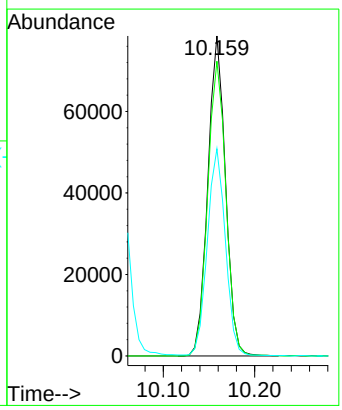
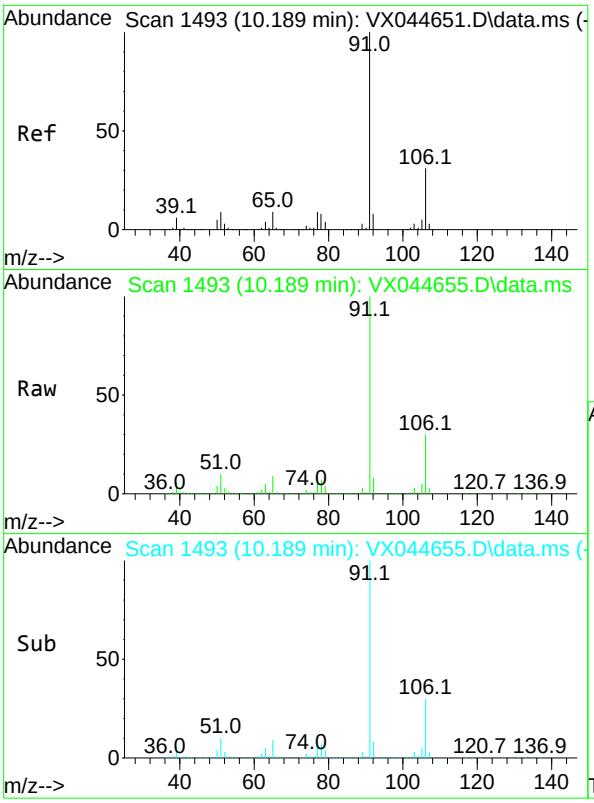



#66
1,1,1,2-Tetrachloroethane
Concen: 51.129 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:131 Resp: 105329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.8 | 47.8 | 143.3 |
| 119 | 66.5 | 33.4 | 100.2 |

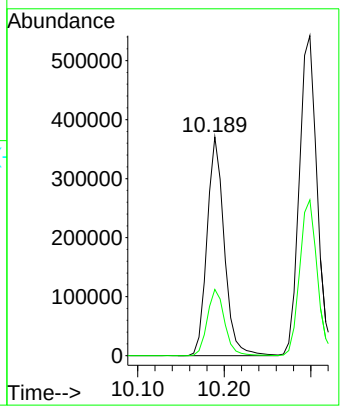





#67
Ethyl Benzene
Concen: 51.721 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 91 Resp: 51156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.3 | 25.0 | 37.6 |




**Instrument :**
MSVOA_X
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ICVVX011525

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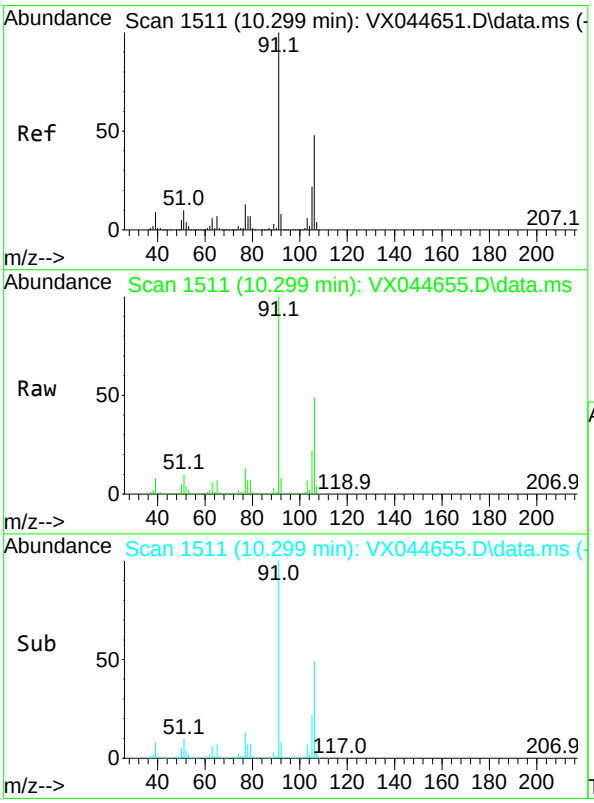
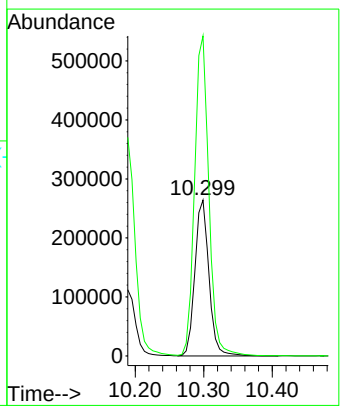
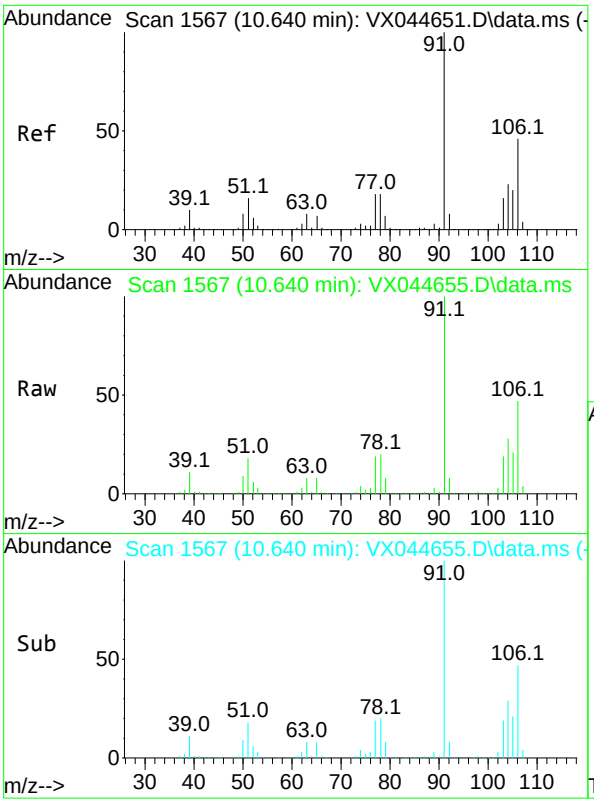



#68
m/p-Xylenes
Concen: 102.645 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:106 Resp: 376743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.7 | 166.4 | 249.6 |






#69
o-Xylene
Concen: 50.378 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:106 Resp: 18699

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.3 | 108.7 | 326.3 |

**Instrument :**
MSVOA_X
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ICVVX011525

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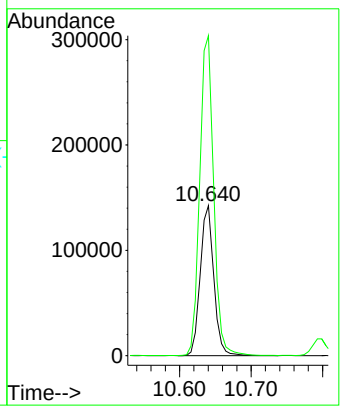
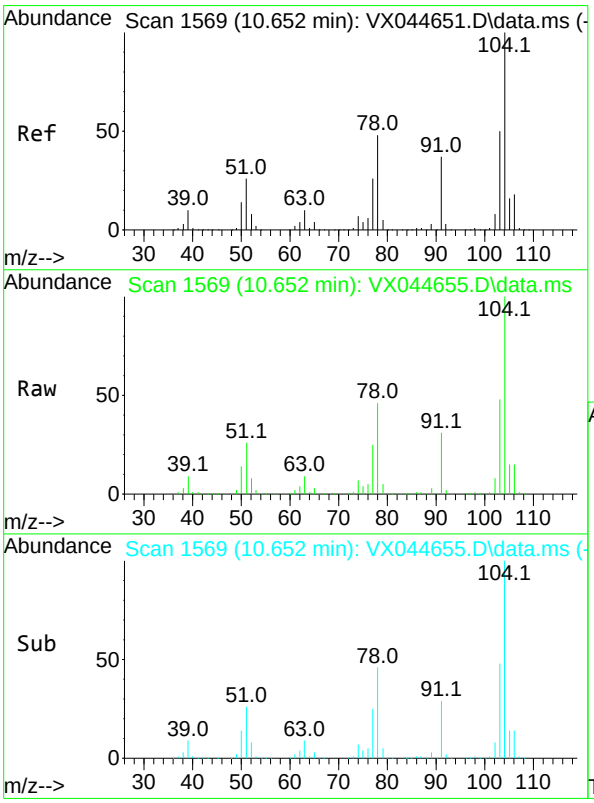
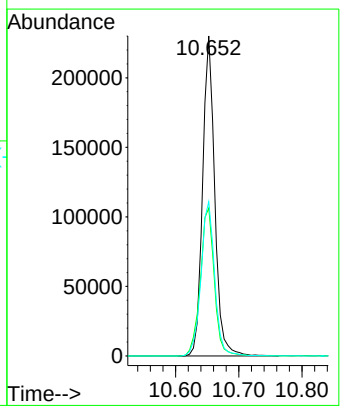


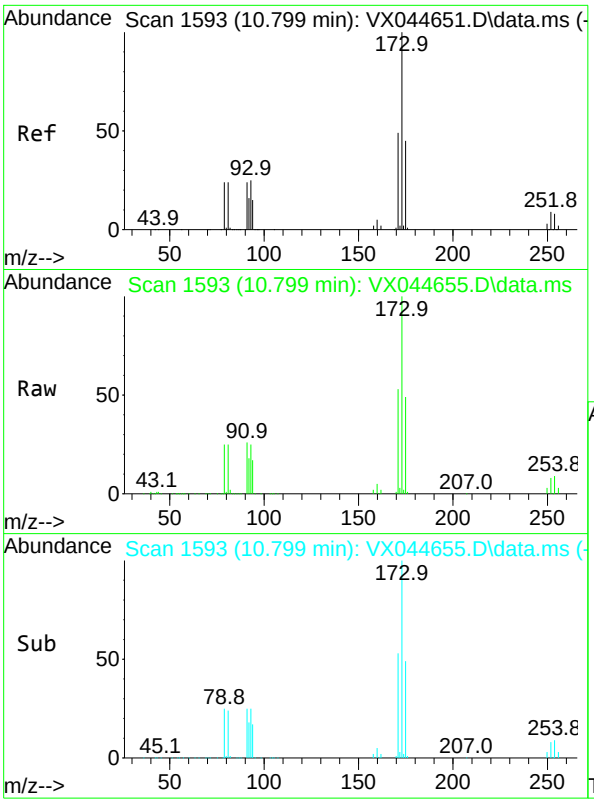




#70
Styrene
Concen: 51.398 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:104 Resp: 308018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.4 | 43.0 | 64.6 |
| 103 | 54.4 | 43.4 | 65.2 |

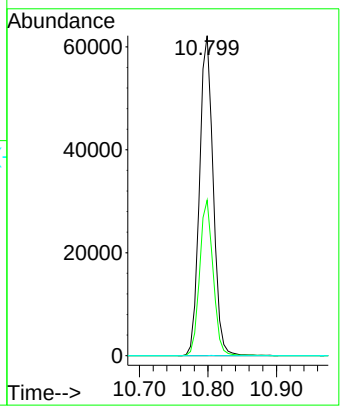





#71
Bromoform
Concen: 51.597 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:173 Resp: 8651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 23.6 | 70.8 |
| 254 | 0.0 | 0.1 | 0.1# |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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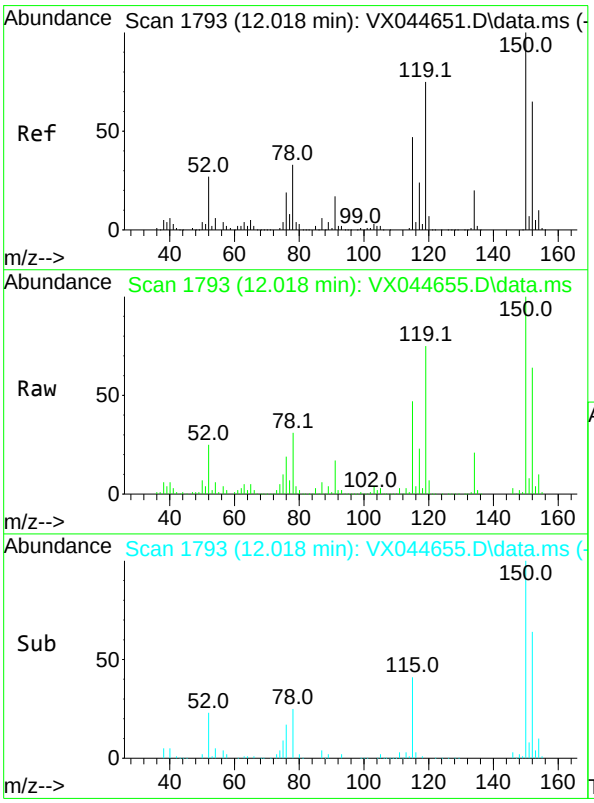
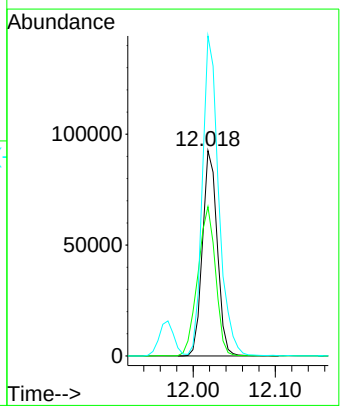
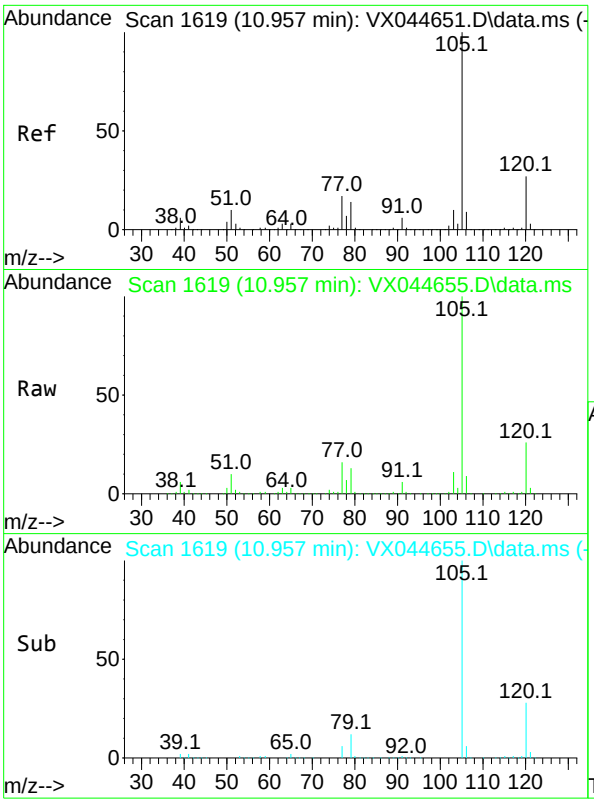



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:152 Resp: 115489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 87.0 | 43.8 | 131.4 |
| 150 | 171.8 | 0.0 | 347.8 |

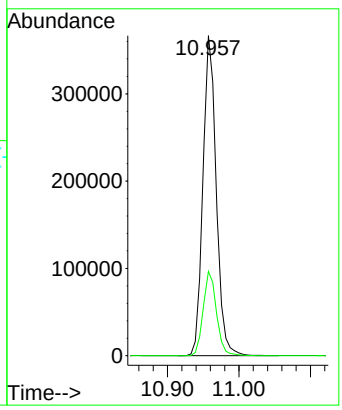





#73
Isopropylbenzene
Concen: 50.246 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:105 Resp: 47405

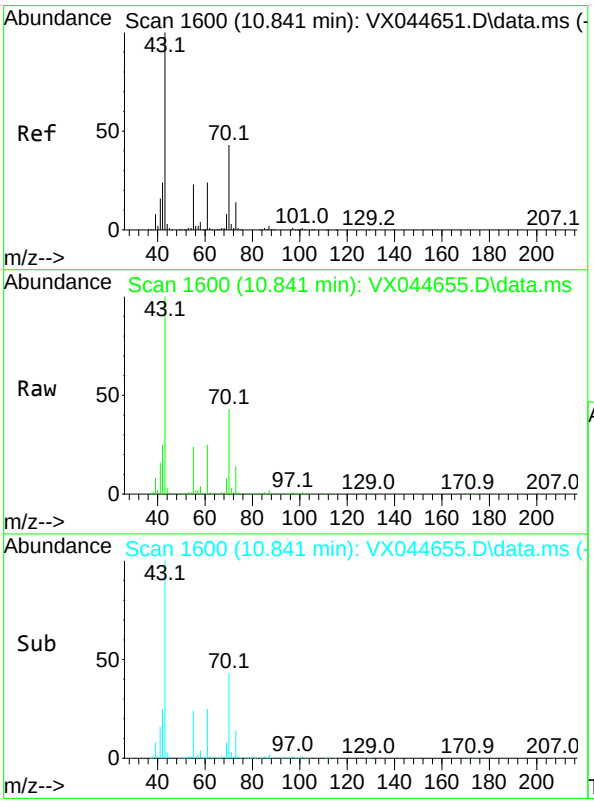
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.2 | 13.2 | 39.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

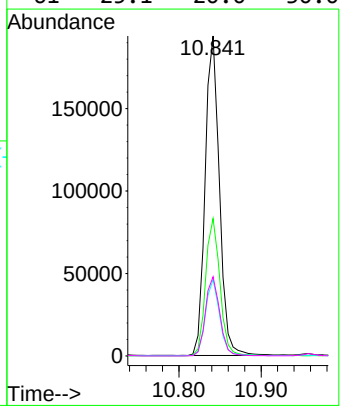
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

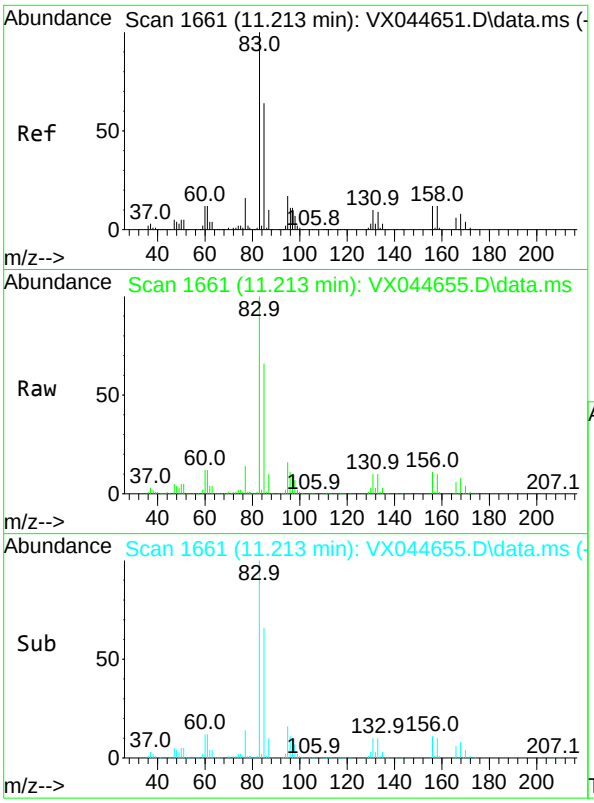



#74
N-amyl acetate
Concen: 50.177 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 233338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.2 | 35.2 | 52.8 |
| 55 | 23.6 | 19.0 | 28.4 |
| 61 | 25.1 | 20.0 | 30.0 |

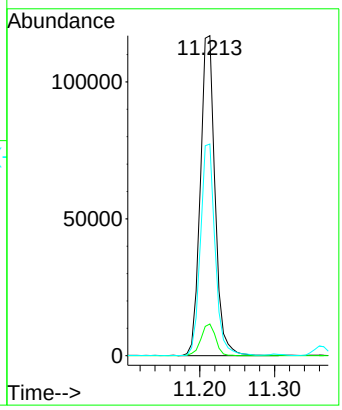





#75
1,1,2,2-Tetrachloroethane
Concen: 49.002 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 83 Resp: 15967

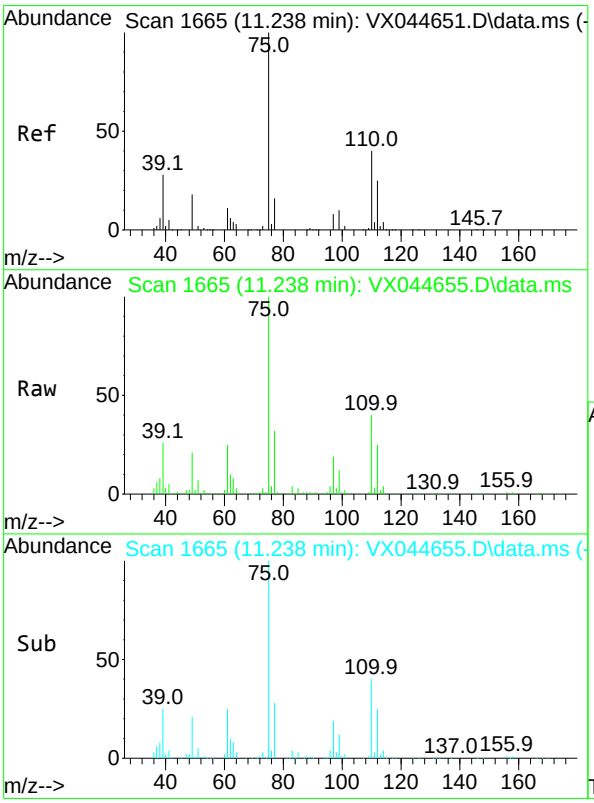
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.0 | 14.9 |
| 85 | 66.2 | 32.0 | 96.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

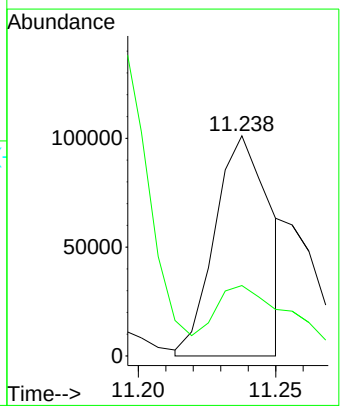
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

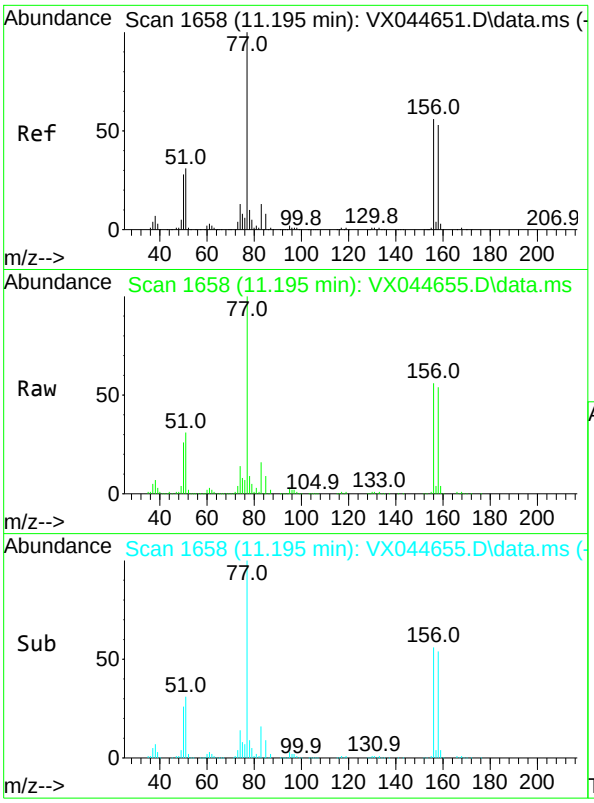



#76
1,2,3-Trichloropropane
Concen: 50.004 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 75 Resp: 140149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 44.9 | 23.4 | 70.2 |






#77
Bromobenzene
Concen: 49.506 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:156 Resp: 10917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 178.2 | 90.3 | 271.0 |
| 158 | 97.0 | 48.4 | 145.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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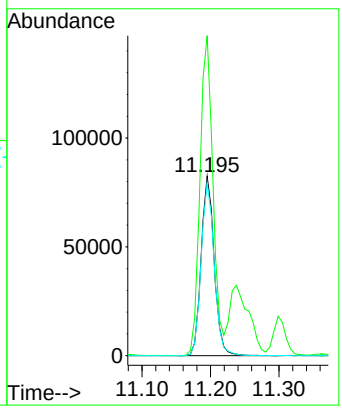
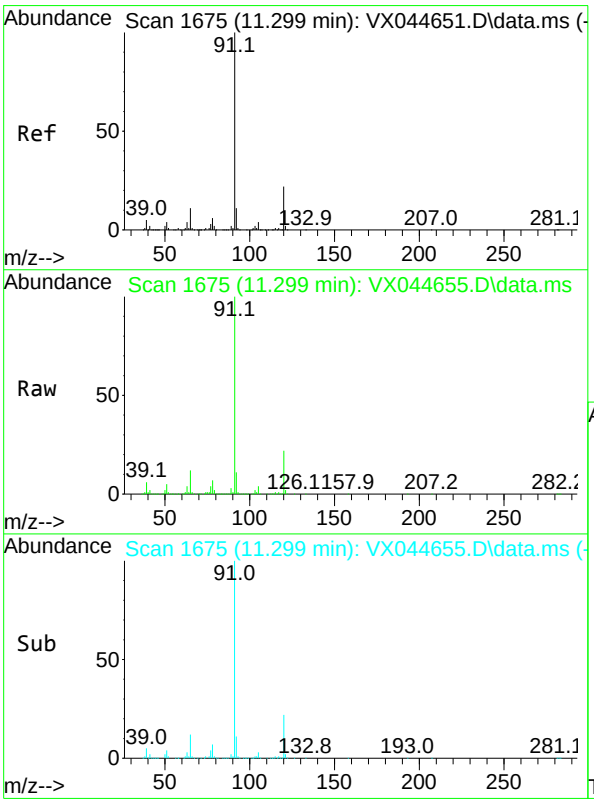
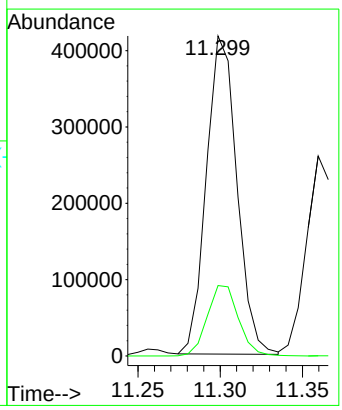


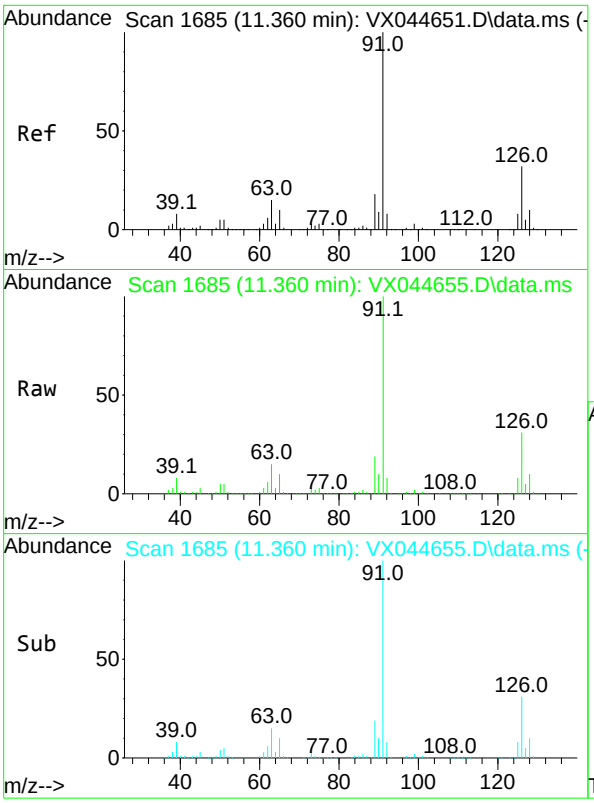




#78
n-propylbenzene
Concen: 51.712 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 91 Resp: 538048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.4 | 34.1 |






#79
2-Chlorotoluene
Concen: 49.678 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 91 Resp: 33389

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.3 | 16.2 | 48.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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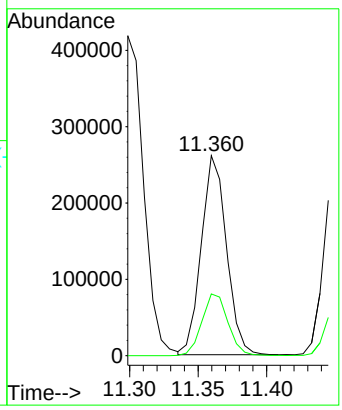
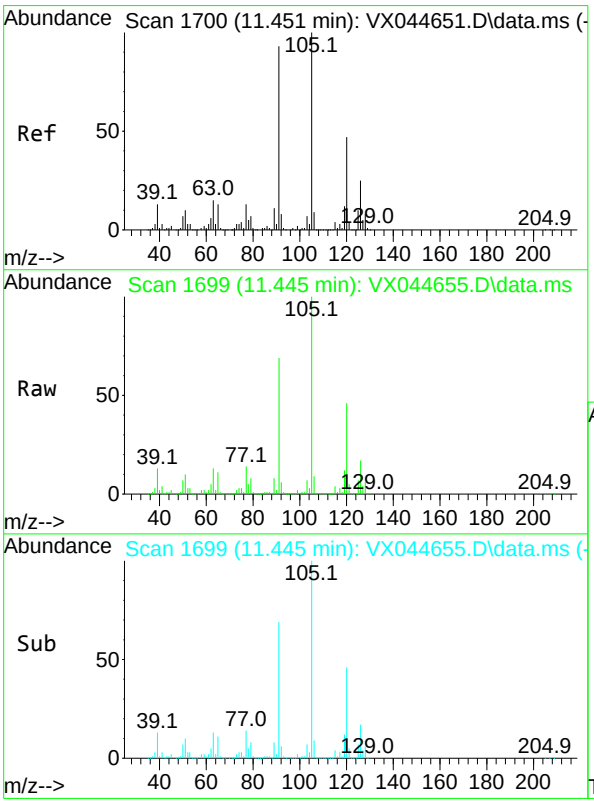
Supervised By :Semsettin Yesilyurt 01/16/2025

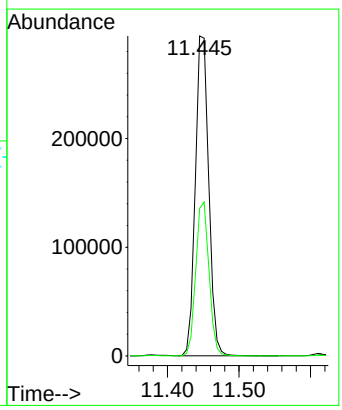


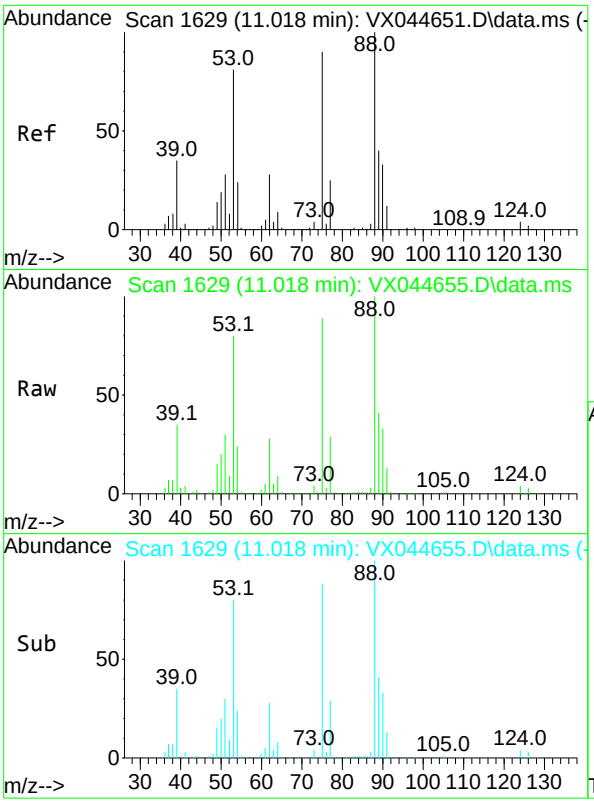




#80
1,3,5-Trimethylbenzene
Concen: 49.852 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:105 Resp: 382880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.6 | 23.7 | 71.1 |

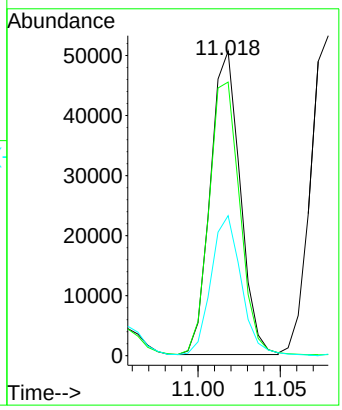





#81
trans-1,4-Dichloro-2-butene
Concen: 51.981 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 75 Resp: 6370

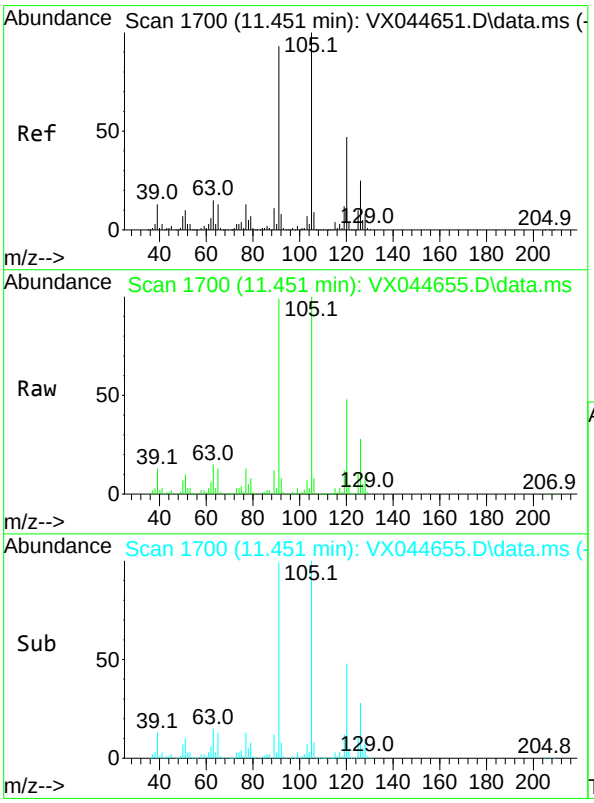
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.1 | 74.3 | 111.5 |
| 89 | 47.1 | 37.4 | 56.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

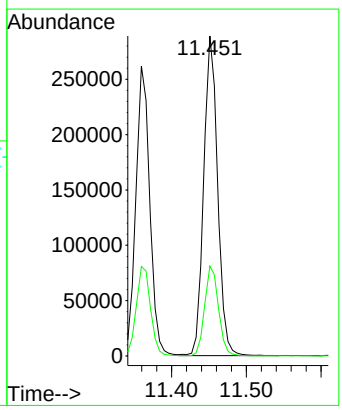
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

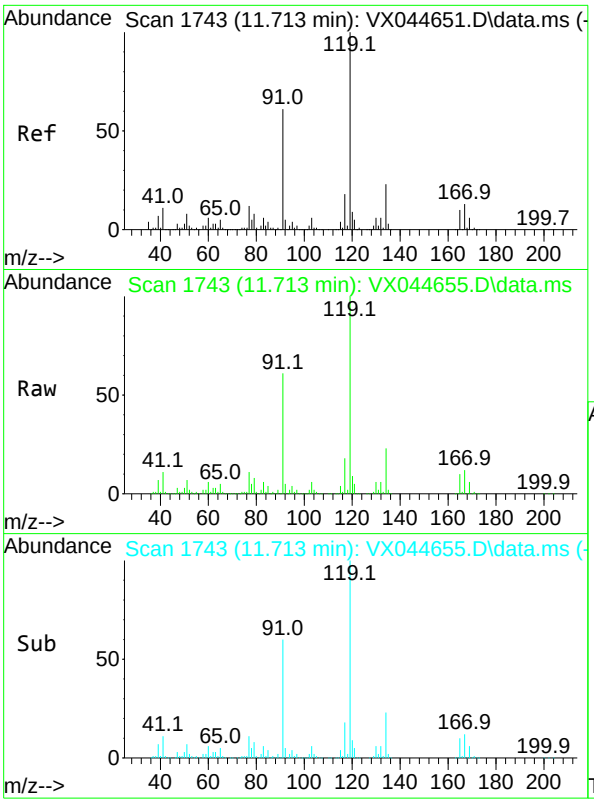



#82
4-Chlorotoluene
Concen: 50.750 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 91 Resp: 373655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.1 | 13.9 | 41.7 |

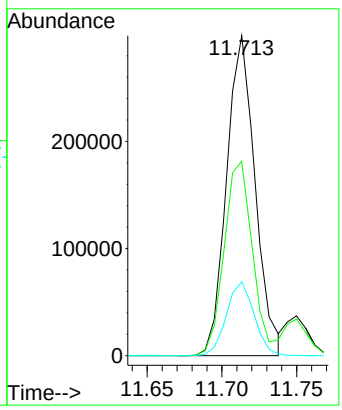





#83
tert-Butylbenzene
Concen: 49.459 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:119 Resp: 39719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 60.8 | 30.0 | 90.0 |
| 134 | 22.4 | 11.2 | 33.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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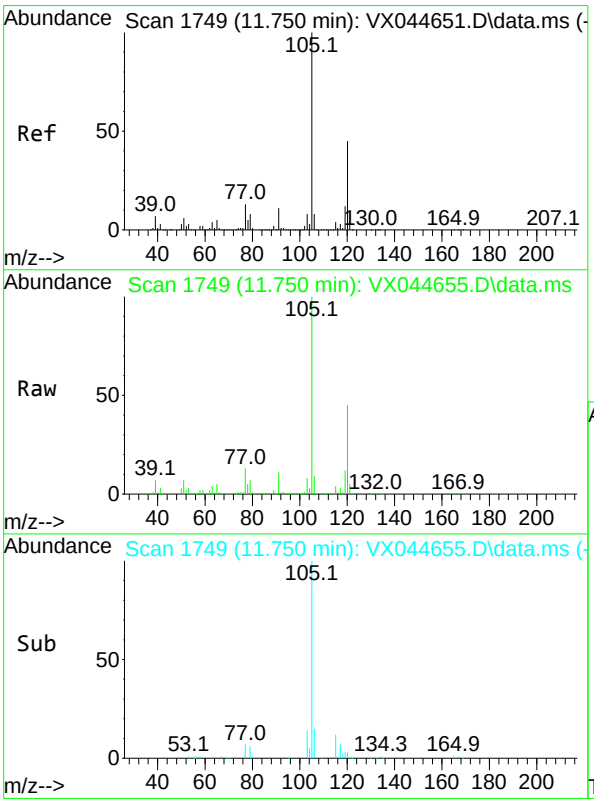
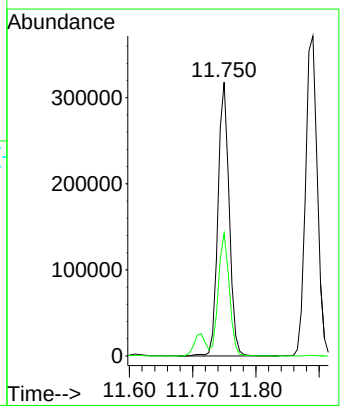
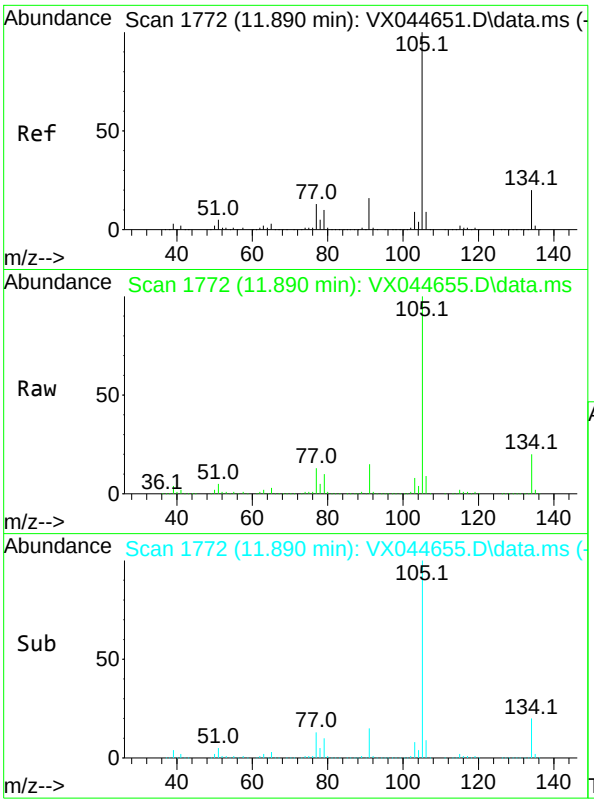



#84
1,2,4-Trimethylbenzene
Concen: 49.714 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:105 Resp: 388010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.2 | 22.2 | 66.6 |

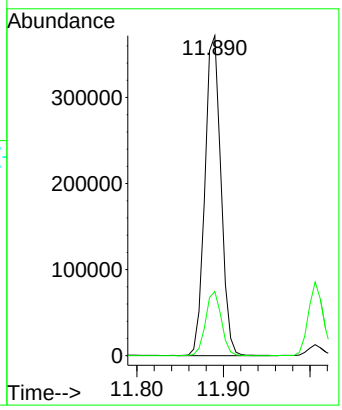





#85
sec-Butylbenzene
Concen: 51.076 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:105 Resp: 47759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.8 | 29.5 |




**Instrument :**
MSVOA_X
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ICVVX011525

**Manual Integrations**
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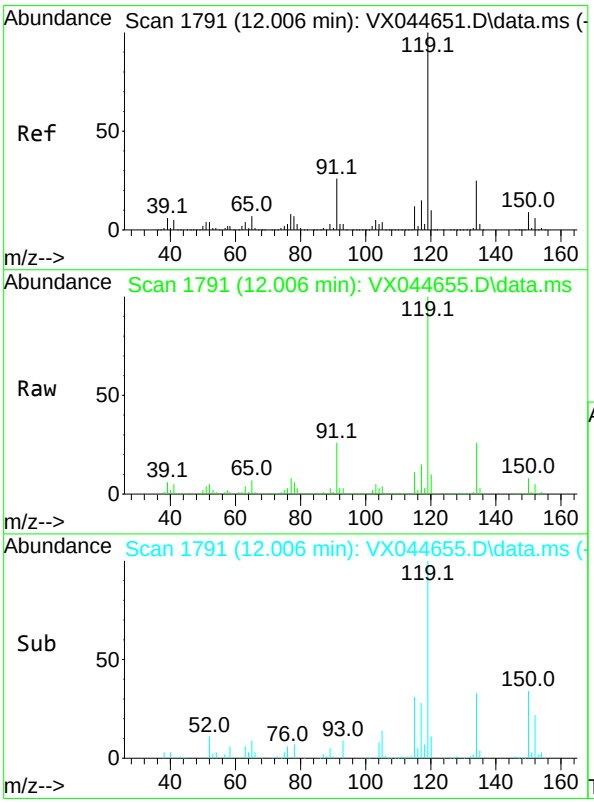
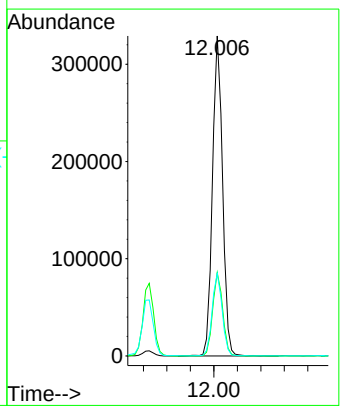
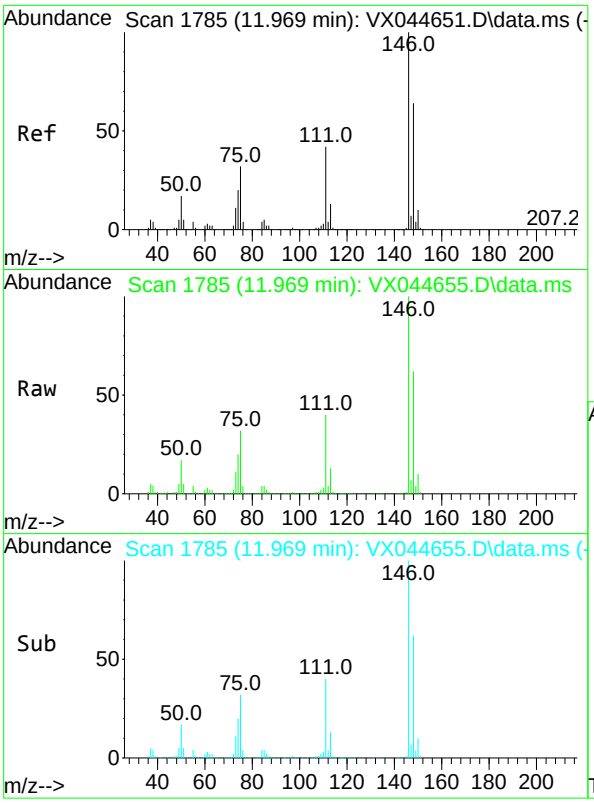



#86
p-Isopropyltoluene
Concen: 51.028 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:119 Resp: 392123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 12.8 | 38.4 |
| 91 | 25.6 | 12.7 | 38.1 |

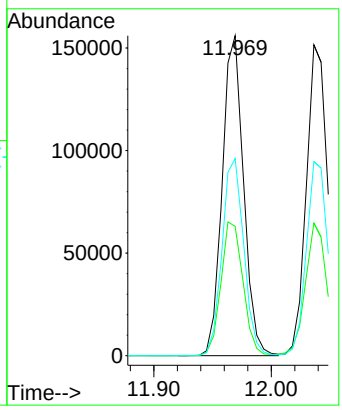





#87
1,3-Dichlorobenzene
Concen: 51.476 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:146 Resp: 19686

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.4 | 21.9 | 65.7 |
| 148 | 62.9 | 31.8 | 95.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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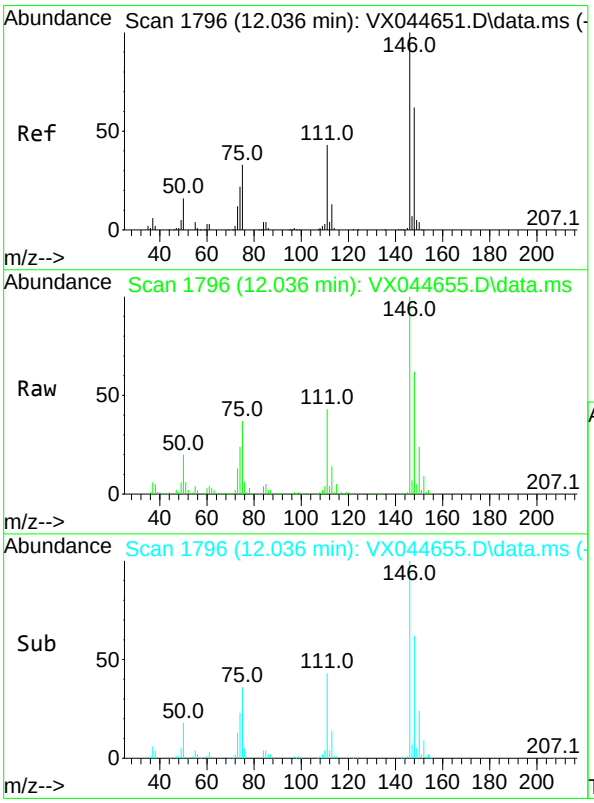
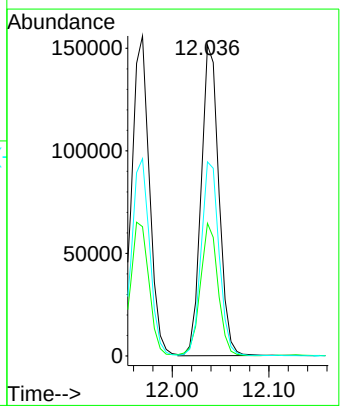
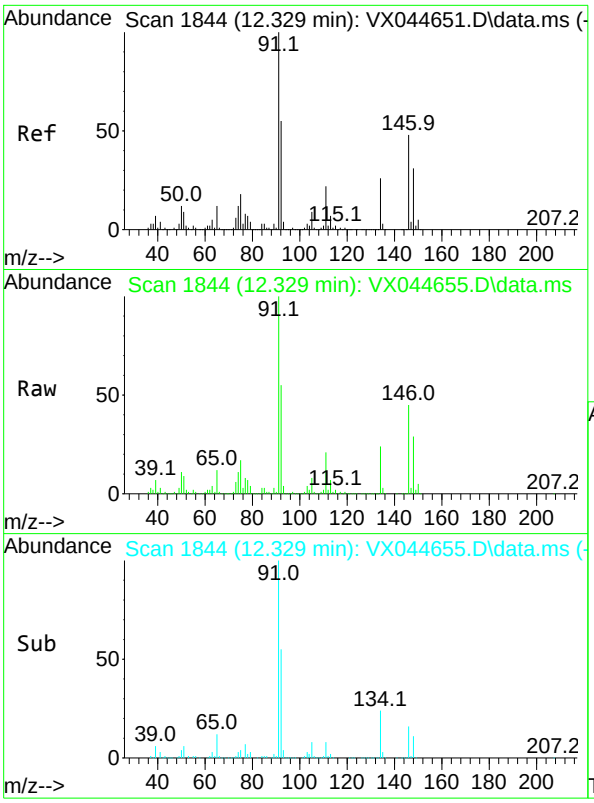



#88
1,4-Dichlorobenzene
Concen: 50.011 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:146 Resp: 193343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.3 | 21.5 | 64.5 |
| 148 | 63.7 | 32.1 | 96.5 |

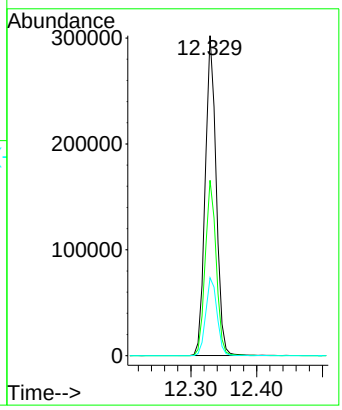





#89
n-Butylbenzene
Concen: 53.136 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 91 Resp: 35070

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.0 | 27.4 | 82.0 |
| 134 | 25.1 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
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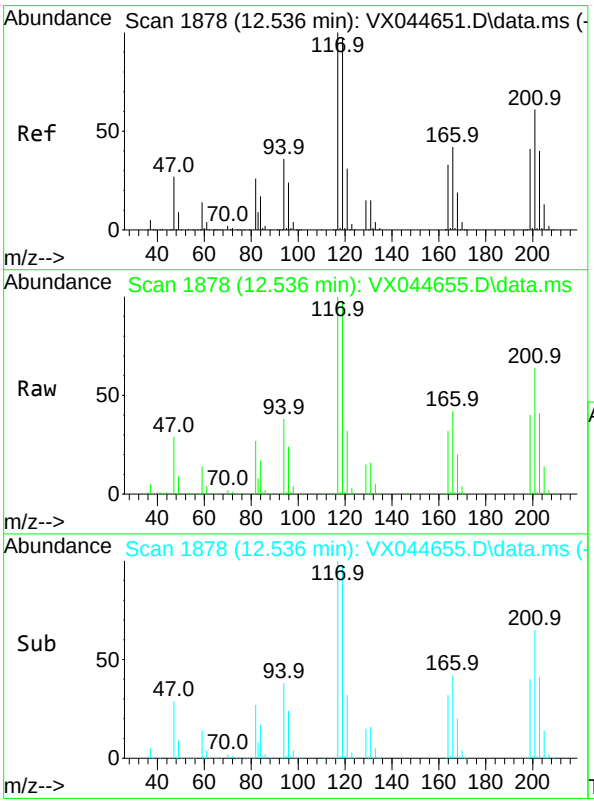
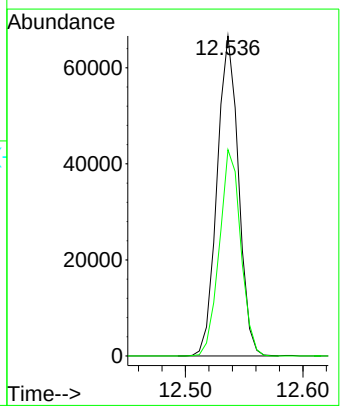
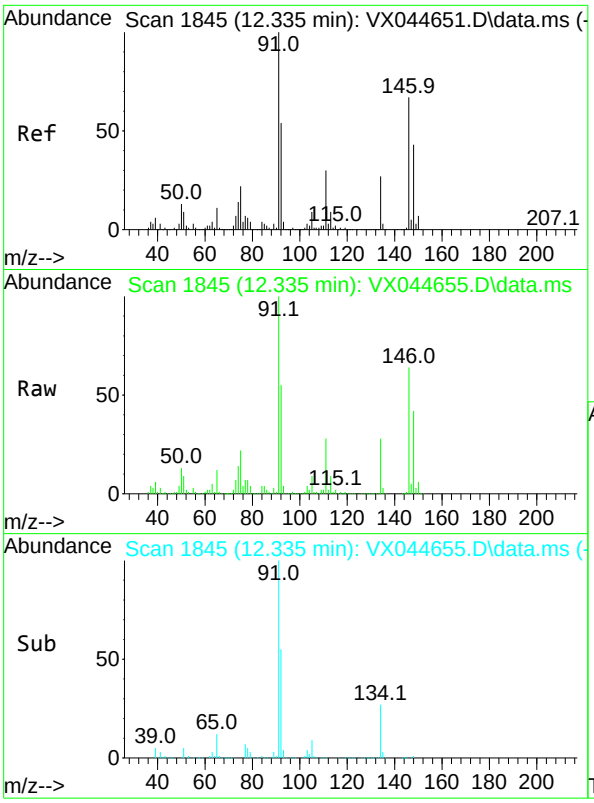



#90
Hexachloroethane
Concen: 48.518 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:117 Resp: 84427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.4 | 32.3 | 96.8 |

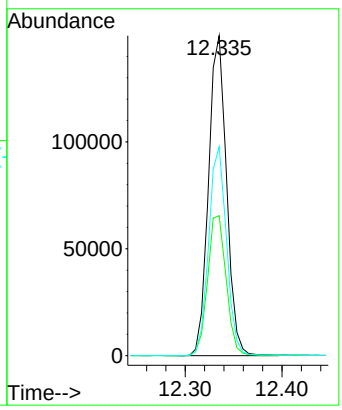





#91
1,2-Dichlorobenzene
Concen: 49.430 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:146 Resp: 19413

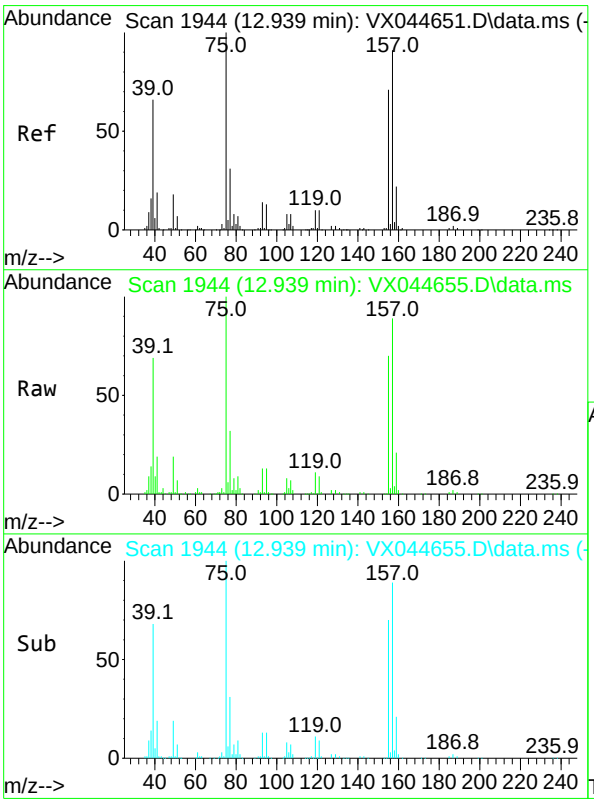
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.4 | 22.4 | 67.2 |
| 148 | 64.9 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

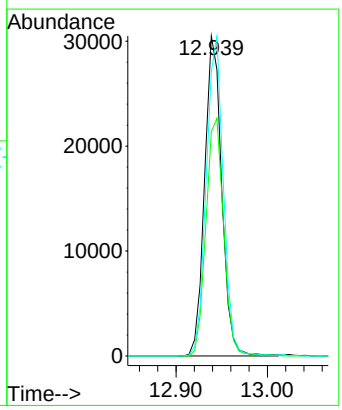
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

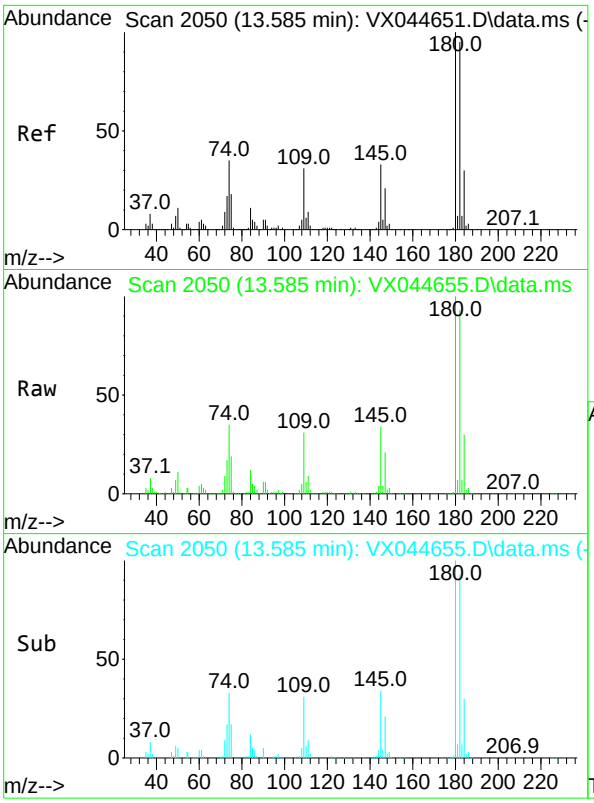



#92
1,2-Dibromo-3-Chloropropane
Concen: 49.672 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 75 Resp: 39583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 76.9 | 39.0 | 116.9 |
| 157 | 99.4 | 49.9 | 149.7 |

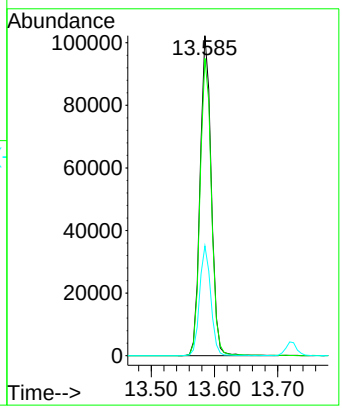





#93
1,2,4-Trichlorobenzene
Concen: 53.362 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:180 Resp: 12528

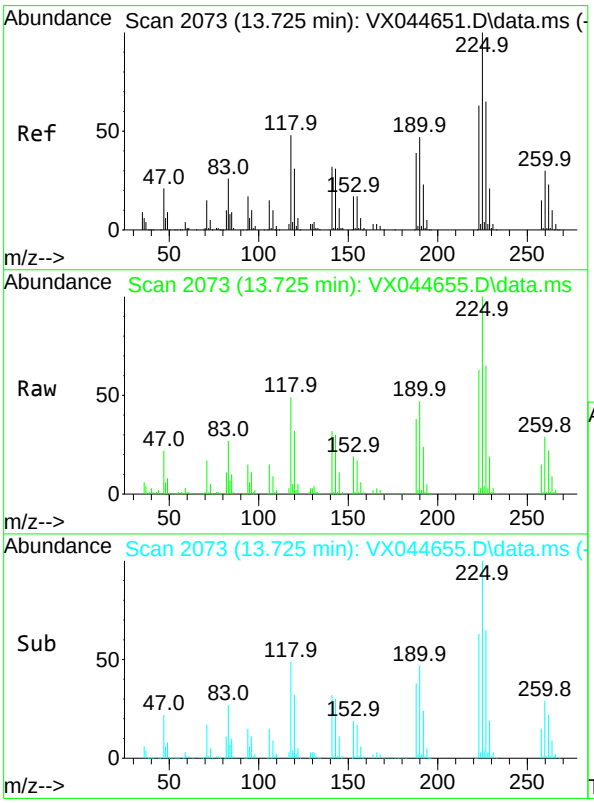
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.5 | 47.4 | 142.2 |
| 145 | 34.3 | 16.7 | 50.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

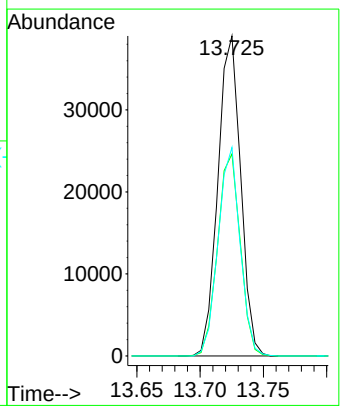
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025

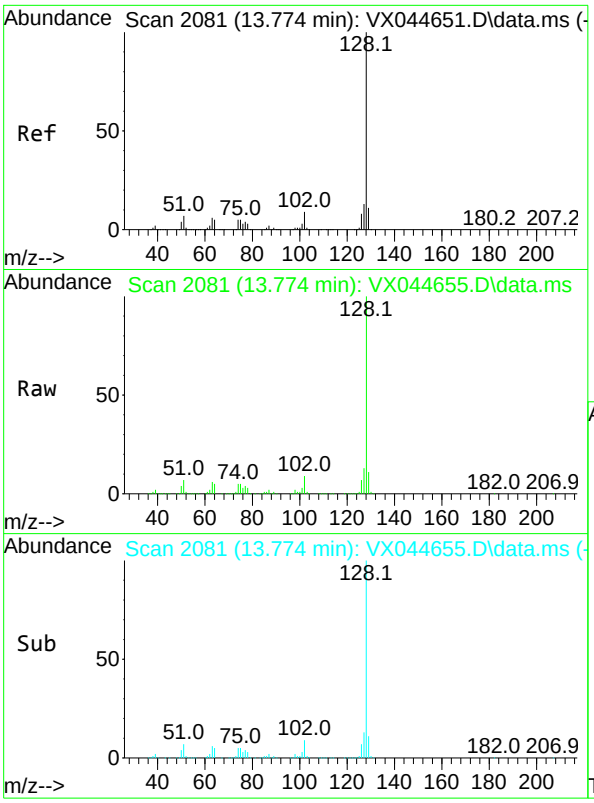



#94
Hexachlorobutadiene
Concen: 52.807 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:225 Resp: 48702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 31.9 | 95.7 |
| 227 | 63.0 | 31.8 | 95.4 |

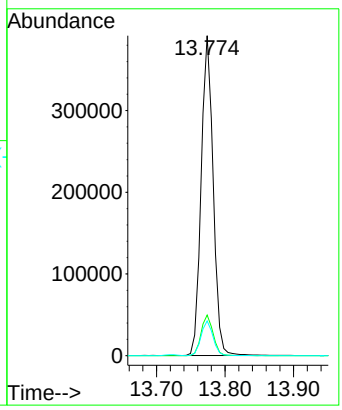





#95
Naphthalene
Concen: 52.899 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:128 Resp: 47902

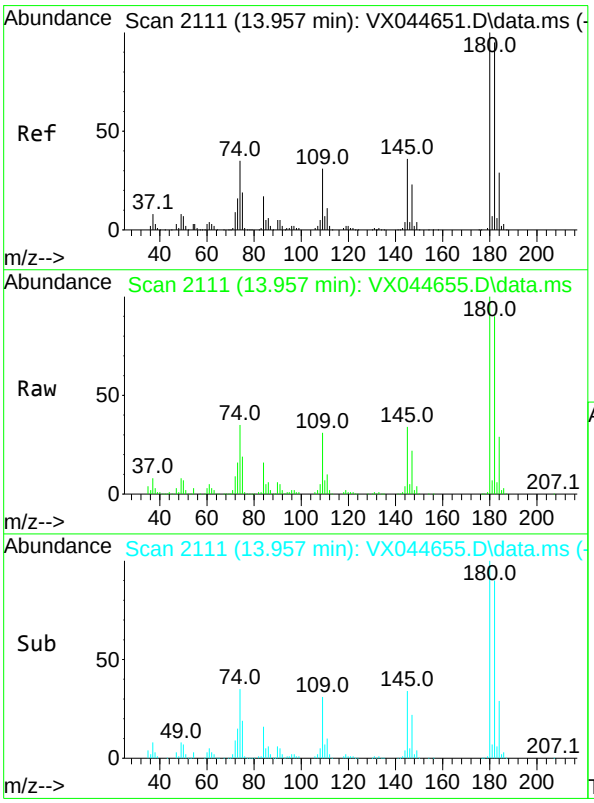
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.3 | 15.5 |
| 129 | 10.9 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

**Manual Integrations**
**APPROVED**

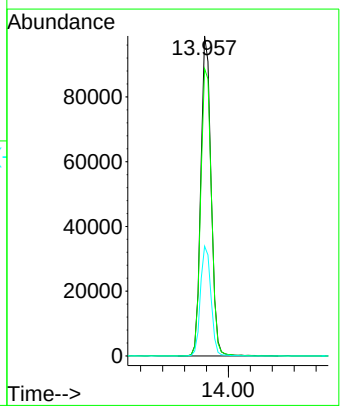
Reviewed By :Mahesh Dadoda 01/16/2025
Supervised By :Semsettin Yesilyurt 01/16/2025




#96
1,2,3-Trichlorobenzene
Concen: 52.611 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:180 Resp: 128038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 47.2 | 141.6 |
| 145 | 35.2 | 17.5 | 52.6 |



# Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 94 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.673 | 0.761 | -13.1 | 105 | 0.00 |
| 3 | P | Chloromethane | 0.728 | 0.695 | 4.5 | 92 | 0.00 |
| 4 | C | Vinyl Chloride | 0.719 | 0.717 | 0.3# | 96 | 0.00 |
| 5 | T | Bromomethane | 0.172 | 0.172 | 0.0 | 95 | 0.00 |
| 6 | T | Chloroethane | 0.132 | 0.131 | 0.8 | 105 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.795 | 0.823 | -3.5 | 101 | 0.00 |
| 8 | T | Diethyl Ether | 0.321 | 0.304 | 5.3 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.597 | 0.624 | -4.5 | 106 | 0.00 |
| 10 | T | Methyl Iodide | 0.815 | 0.837 | -2.7 | 97 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.168 | 0.167 | 0.6 | 104 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.585 | 0.600 | -2.6# | 100 | 0.00 |
| 13 | T | Acrolein | 0.079 | 0.073 | 7.6 | 101 | 0.00 |
| 14 | T | Allyl chloride | 1.140 | 1.100 | 3.5 | 98 | 0.00 |
| 15 | T | Acrylonitrile | 0.330 | 0.343 | -3.9 | 103 | 0.00 |
| 16 | T | Acetone | 0.299 | 0.319 | -6.7 | 112 | 0.00 |
| 17 | T | Carbon Disulfide | 1.597 | 1.624 | -1.7 | 99 | 0.00 |
| 18 | T | Methyl Acetate | 0.921 | 0.987 | -7.2 | 105 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.121 | 2.137 | -0.8 | 99 | 0.00 |
| 20 | T | Methylene Chloride | 0.695 | 0.669 | 3.7 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.611 | 0.597 | 2.3 | 99 | 0.00 |
| 22 | T | Diisopropyl ether | 1.981 | 2.008 | -1.4 | 99 | 0.00 |
| 23 | T | Vinyl Acetate | 1.734 | 1.765 | -1.8 | 100 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.175 | 1.179 | -0.3 | 98 | 0.00 |
| 25 | T | 2-Butanone | 0.444 | 0.472 | -6.3 | 104 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.139 | 1.109 | 2.6 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.769 | 0.751 | 2.3 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 0.549 | 0.544 | 0.9 | 96 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.286 | 0.294 | -2.8 | 103 | 0.00 |
| 30 | C | Chloroform | 1.186 | 1.193 | -0.6# | 98 | 0.00 |
| 31 | T | Cyclohexane | 0.950 | 1.005 | -5.8 | 101 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.090 | 1.065 | 2.3 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.755 | 0.790 | -4.6 | 100 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.318 | 0.341 | -7.2 | 99 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.442 | 0.445 | -0.7 | 100 | 0.00 |
| 37 | T | Ethyl Acetate | 0.471 | 0.513 | -8.9 | 102 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.497 | 0.500 | -0.6 | 100 | -0.01 |
| 39 | T | Methylcyclohexane | 0.587 | 0.617 | -5.1 | 103 | 0.00 |
| 40 | TM | Benzene | 1.370 | 1.387 | -1.2 | 98 | 0.00 |
| 41 | T | Methacrylonitrile | 0.274 | 0.282 | -2.9 | 102 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.509 | -1.8 | 98 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.866 | 0.881 | -1.7 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 0.329 | 0.342 | -4.0 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.345 | 0.352 | -2.0# | 98 | 0.00 |
| 46 | T | Dibromomethane | 0.263 | 0.262 | 0.4 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 0.538 | 0.539 | -0.2 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 0.402 | 0.425 | -5.7 | 98 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 0.008 | 0.008 | 0.0 | 97 | 0.00 |
| 50 | S | Toluene-d8 | 1.108 | 1.177 | -6.2 | 97 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.479 | 0.482 | -0.6 | 99 | 0.00 |
| 52 | CM | Toluene | 0.839 | 0.838 | 0.1# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.556 | 0.571 | -2.7 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.603 | 0.616 | -2.2 | 99 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.339 | 0.340 | -0.3 | 98 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.583 | 0.590 | -1.2 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.578 | 0.579 | -0.2 | 96 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.286 | 0.289 | -1.0 | 97 | 0.00 |
| 59 | T | 2-Hexanone | 0.352 | 0.356 | -1.1 | 99 | 0.00 |
| 60 | T | Dibromochloromethane | 0.398 | 0.398 | 0.0 | 96 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.356 | 0.353 | 0.8 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.413 | 0.435 | -5.3 | 95 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 64 | T | Tetrachloroethene | 0.314 | 0.335 | -6.7 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 1.062 | 1.076 | -1.3 | 95 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.386 | 0.395 | -2.3 | 95 | 0.00 |
| 67 | C | Ethyl Benzene | 1.853 | 1.917 | -3.5# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.688 | 0.706 | -2.6 | 95 | 0.00 |
| 69 | T | o-Xylene | 0.695 | 0.701 | -0.9 | 93 | 0.00 |
| 70 | T | Styrene | 1.123 | 1.154 | -2.8 | 94 | 0.00 |
| 71 | P | Bromoform | 0.314 | 0.324 | -3.2 | 95 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 73 | T | Isopropylbenzene | 4.085 | 4.105 | -0.5 | 95 | 0.00 |
| 74 | T | N-amyl acetate | 2.013 | 2.020 | -0.3 | 96 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.411 | 1.383 | 2.0 | 96 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.213 | 1.214 | -0.1 | 100 | 0.00 |
| 77 | T | Bromobenzene | 0.955 | 0.945 | 1.0 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 4.505 | 4.659 | -3.4 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.910 | 2.891 | 0.7 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.325 | 3.315 | 0.3 | 94 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.531 | 0.552 | -4.0 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.188 | 3.235 | -1.5 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.477 | 3.439 | 1.1 | 94 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.379 | 3.360 | 0.6 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.048 | 4.135 | -2.1 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.327 | 3.395 | -2.0 | 95 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.656 | 1.705 | -3.0 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.674 | 1.674 | 0.0 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 2.857 | 3.037 | -6.3 | 98 | 0.00 |
| 90 | T | Hexachloroethane | 0.753 | 0.731 | 2.9 | 96 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.700 | 1.681 | 1.1 | 93 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.345 | 0.343 | 0.6 | 100 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.016 | 1.085 | -6.8 | 95 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.399 | 0.422 | -5.8 | 97 | 0.00 |
| 95 | T | Naphthalene | 3.920 | 4.148 | -5.8 | 98 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 1.054 | 1.109 | -5.2 | 95 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Evaluate Continuing Calibration Report

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 94 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 56.549 | -13.1 | 105 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 47.763 | 4.5 | 92 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 49.839 | 0.3# | 96 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 50.031 | -0.1 | 95 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 49.624 | 0.8 | 105 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 51.789 | -3.6 | 101 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 47.479 | 5.0 | 98 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 52.271 | -4.5 | 106 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.350 | -2.7 | 97 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 248.503 | 0.6 | 104 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 51.243 | -2.5# | 100 | 0.00 |
| 13 | T | Acrolein | 250.000 | 230.919 | 7.6 | 101 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 48.232 | 3.5 | 98 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 259.942 | -4.0 | 103 | 0.00 |
| 16 | T | Acetone | 250.000 | 266.735 | -6.7 | 112 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 50.827 | -1.7 | 99 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 53.560 | -7.1 | 105 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 50.389 | -0.8 | 99 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 48.076 | 3.8 | 97 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 48.846 | 2.3 | 99 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 50.659 | -1.3 | 99 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 254.442 | -1.8 | 100 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 50.150 | -0.3 | 98 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 265.596 | -6.2 | 104 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 48.697 | 2.6 | 99 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 48.831 | 2.3 | 98 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 49.545 | 0.9 | 96 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 256.578 | -2.6 | 103 | 0.00 |
| 30 | C | Chloroform | 50.000 | 50.304 | -0.6# | 98 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 52.878 | -5.8 | 101 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 48.859 | 2.3 | 100 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 52.363 | -4.7 | 100 | -0.01 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 53.683 | -7.4 | 99 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 50.294 | -0.6 | 100 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 54.526 | -9.1 | 102 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 50.287 | -0.6 | 100 | -0.01 |
| 39 | T | Methylcyclohexane | 50.000 | 52.520 | -5.0 | 103 | 0.00 |
| 40 | TM | Benzene | 50.000 | 50.610 | -1.2 | 98 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 51.342 | -2.7 | 102 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 50.902 | -1.8 | 98 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 50.871 | -1.7 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 51.887 | -3.8 | 100 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 51.011 | -2.0# | 98 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 49.939 | 0.1 | 98 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 50.029 | -0.1 | 98 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 52.890 | -5.8 | 98 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 992.095 | 0.8 | 97 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 53.113 | -6.2 | 97 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 251.778 | -0.7 | 99 | 0.00 |
| 52 | CM | Toluene | 50.000 | 49.955 | 0.1# | 96 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 51.300 | -2.6 | 96 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.049 | -2.1 | 99 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 50.085 | -0.2 | 98 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 50.595 | -1.2 | 96 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 50.129 | -0.3 | 96 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 251.852 | -0.7 | 97 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 253.010 | -1.2 | 99 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 49.957 | 0.1 | 96 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 49.693 | 0.6 | 97 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 52.693 | -5.4 | 95 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 89 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 53.384 | -6.8 | 100 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 50.667 | -1.3 | 95 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 51.129 | -2.3 | 95 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 51.721 | -3.4# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 102.645 | -2.6 | 95 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 50.378 | -0.8 | 93 | 0.00 |
| 70 | T | Styrene | 50.000 | 51.398 | -2.8 | 94 | 0.00 |
| 71 | P | Bromoform | 50.000 | 51.597 | -3.2 | 95 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 90 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 50.246 | -0.5 | 95 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 50.177 | -0.4 | 96 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 49.002 | 2.0 | 96 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 50.004 | -0.0 | 100 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.506 | 1.0 | 95 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 51.712 | -3.4 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 49.678 | 0.6 | 95 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.852 | 0.3 | 94 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 51.981 | -4.0 | 97 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.750 | -1.5 | 95 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 49.459 | 1.1 | 94 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 49.714 | 0.6 | 95 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 51.076 | -2.2 | 96 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 51.028 | -2.1 | 95 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 51.476 | -3.0 | 95 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 50.011 | -0.0 | 96 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 53.136 | -6.3 | 98 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 48.518 | 3.0 | 96 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.430 | 1.1 | 93 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 49.672 | 0.7 | 100 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 53.362 | -6.7 | 95 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 52.807 | -5.6 | 97 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 52.899 | -5.8 | 98 | 0.00 |

ICAL Form

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Quant Time: Jan 16 01:21:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 52.611 | -5.2 | 95 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VX044711.D**

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.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date/Time: 01/27/2025 10:08

Lab File ID: VX044711.D Init. Calib. Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 13:37

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Chloromethane | 0.728 | 0.776 | 0.1 | 6.59 | 20 |
| Vinyl Chloride | 0.719 | 0.750 | | 4.31 | 20 |
| Bromomethane | 0.172 | 0.181 | | 5.23 | 20 |
| Chloroethane | 0.132 | 0.178 | | 34.85 | 20 |
| Trichlorofluoromethane | 0.795 | 0.780 | | -1.89 | 20 |
| 1,1,2-Trichlorotrifluoroethane | 0.597 | 0.612 | | 2.51 | 20 |
| 1,1-Dichloroethene | 0.585 | 0.612 | | 4.61 | 20 |
| Acetone | 0.299 | 0.288 | | -3.68 | 20 |
| Carbon Disulfide | 1.598 | 1.689 | | 5.76 | 20 |
| Methyl tert-butyl Ether | 2.121 | 2.198 | | 3.63 | 20 |
| Methylene Chloride | 0.695 | 0.734 | | 5.61 | 20 |
| trans-1,2-Dichloroethene | 0.611 | 0.618 | | 1.15 | 20 |
| 1,1-Dichloroethane | 1.175 | 1.237 | 0.1 | 5.28 | 20 |
| 2-Butanone | 0.444 | 0.470 | | 5.86 | 20 |
| Carbon Tetrachloride | 0.497 | 0.453 | | -8.85 | 20 |
| cis-1,2-Dichloroethene | 0.769 | 0.785 | | 2.08 | 20 |
| Chloroform | 1.186 | 1.204 | | 1.52 | 20 |
| 1,1,1-Trichloroethane | 1.090 | 0.992 | | -8.99 | 20 |
| Methylcyclohexane | 0.587 | 0.601 | | 2.38 | 20 |
| Benzene | 1.370 | 1.421 | | 3.72 | 20 |
| 1,2-Dichloroethane | 0.500 | 0.487 | | -2.6 | 20 |
| Trichloroethene | 0.329 | 0.332 | | 0.91 | 20 |
| 1,2-Dichloropropane | 0.345 | 0.367 | | 6.38 | 20 |
| Bromodichloromethane | 0.538 | 0.535 | | -0.56 | 20 |
| 4-Methyl-2-Pentanone | 0.479 | 0.506 | | 5.64 | 20 |
| Toluene | 0.839 | 0.864 | | 2.98 | 20 |
| t-1,3-Dichloropropene | 0.556 | 0.582 | | 4.68 | 20 |
| cis-1,3-Dichloropropene | 0.603 | 0.618 | | 2.49 | 20 |
| 1,1,2-Trichloroethane | 0.339 | 0.351 | | 3.54 | 20 |
| 2-Hexanone | 0.352 | 0.364 | | 3.41 | 20 |
| Dibromochloromethane | 0.398 | 0.411 | | 3.27 | 20 |
| Tetrachloroethene | 0.314 | 0.305 | | -2.87 | 20 |
| Chlorobenzene | 1.062 | 1.085 | 0.3 | 2.17 | 20 |
| Ethyl Benzene | 1.853 | 1.874 | | 1.13 | 20 |
| m/p-Xylenes | 0.688 | 0.702 | | 2.04 | 20 |
| o-Xylene | 0.695 | 0.695 | | 0 | 20 |
| Styrene | 1.123 | 1.192 | | 6.14 | 20 |
| Bromoform | 0.314 | 0.313 | 0.1 | -0.32 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Raw Data: **VX044711.D**

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.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date/Time: 01/27/2025 10:08

Lab File ID: VX044711.D Init. Calib. Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 13:37

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Isopropylbenzene | 4.085 | 3.903 | | -4.45 | 20 |
| 1,1,2,2-Tetrachloroethane | 1.411 | 1.377 | 0.3 | -2.41 | 20 |
| 1,3-Dichlorobenzene | 1.656 | 1.722 | | 3.99 | 20 |
| 1,4-Dichlorobenzene | 1.674 | 1.716 | | 2.51 | 20 |
| 1,2-Dichlorobenzene | 1.700 | 1.665 | | -2.06 | 20 |
| 1,2-Dichloroethane-d4 | 0.755 | 0.714 | | -5.43 | 20 |
| Dibromofluoromethane | 0.318 | 0.317 | | -0.31 | 20 |
| Toluene-d8 | 1.108 | 1.118 | | 0.9 | 20 |
| 4-Bromofluorobenzene | 0.413 | 0.422 | | 2.18 | 20 |

All other compounds must meet a minimum RRF of 0.010.
RRF of 1,4-Dioxane = Value should be divide by 1000.

Sample Results: **VX044711.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 5.537 | 168 | 172369 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 318376 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 277935 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 123095 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 123157 | 47.336 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 94.680% | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 100788 | 49.831 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 99.660% | | | |
| 50) Toluene-d8 | 8.641 | 98 | 355984 | 50.477 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.960% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 134456 | 51.142 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 102.280% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 111623 | 48.124 | ug/l | 97 |
| 3) Chloromethane | 1.294 | 50 | 133778 | 53.335 | ug/l | 100 |
| 4) Vinyl Chloride | 1.374 | 62 | 129310 | 52.177 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 31277 | 52.854 | ug/l | 97 |
| 6) Chloroethane | 1.660 | 64 | 30670m | 67.485 | ug/l | |
| 7) Trichlorofluoromethane | 1.867 | 101 | 134485 | 49.099 | ug/l | 98 |
| 8) Diethyl Ether | 2.130 | 74 | 47069 | 42.582 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 105487 | 51.232 | ug/l | 99 |
| 10) Methyl Iodide | 2.440 | 142 | 140845 | 50.103 | ug/l | 97 |
| 11) Tert butyl alcohol | 2.971 | 59 | 133032m | 229.357 | ug/l | |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 105513 | 52.279 | ug/l | 92 |
| 13) Acrolein | 2.233 | 56 | 148664 | 544.657 | ug/l | 99 |
| 14) Allyl chloride | 2.654 | 41 | 200142 | 50.932 | ug/l | 97 |
| 15) Acrylonitrile | 3.056 | 53 | 304312 | 267.495 | ug/l | 98 |
| 16) Acetone | 2.379 | 43 | 247835 | 240.764 | ug/l | 96 |
| 17) Carbon Disulfide | 2.501 | 76 | 291079 | 52.854 | ug/l | 99 |
| 18) Methyl Acetate | 2.696 | 43 | 169609 | 53.407 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 378923 | 51.834 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 126568 | 52.799 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 106458 | 50.522 | ug/l | 96 |
| 22) Diisopropyl ether | 3.751 | 45 | 382549 | 56.003 | ug/l | 98 |
| 23) Vinyl Acetate | 3.715 | 43 | 1630552 | 272.725 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 213198 | 52.632 | ug/l | 100 |
| 25) 2-Butanone | 4.550 | 43 | 404966 | 264.600 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.464 | 77 | 181991 | 46.357 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 4.477 | 96 | 135384 | 51.078 | ug/l | 99 |
| 28) Bromochloromethane | 4.885 | 49 | 97603 | 51.564 | ug/l | 98 |
| 29) Tetrahydrofuran | 4.995 | 42 | 260029 | 263.398 | ug/l | 98 |
| 30) Chloroform | 5.080 | 83 | 207551 | 50.771 | ug/l | 96 |
| 31) Cyclohexane | 5.452 | 56 | 176773 | 53.957 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.367 | 97 | 170957 | 45.490 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 137792 | 48.940 | ug/l | 99 |
| 37) Ethyl Acetate | 4.702 | 43 | 160916 | 53.669 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.665 | 117 | 144163 | 45.521 | ug/l | 98 |
| 39) Methylcyclohexane | 7.372 | 83 | 191285 | 51.179 | ug/l | 98 |
| 40) Benzene | 6.025 | 78 | 452521 | 51.868 | ug/l | 98 |

Sample Results: **VX044711.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.910 | 41 | 91356 | 52.289 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 155155 | 48.725 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.330 | 43 | 284981 | 51.667 | ug/l | | 100 |
| 44) Trichloroethene | 7.116 | 130 | 105738 | 50.413 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 116931 | 53.245 | ug/l | | 98 |
| 46) Dibromomethane | 7.574 | 93 | 83999 | 50.244 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.811 | 83 | 170245 | 49.656 | ug/l | | 98 |
| 48) Methyl methacrylate | 7.683 | 41 | 137818 | 53.829 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.665 | 88 | 52981 | 991.841 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 805406 | 264.229 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 275176 | 51.531 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.970 | 75 | 185440 | 52.351 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 196861 | 51.254 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 111881 | 51.785 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.110 | 69 | 196250 | 52.829 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 193983 | 52.726 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.232 | 63 | 450749 | 247.155 | ug/l | | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 578675 | 258.046 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.518 | 129 | 130942 | 51.638 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 116099 | 51.277 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.268 | 164 | 84859 | 48.623 | ug/l | | 98 |
| 65) Chlorobenzene | 10.073 | 112 | 301484 | 51.069 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 104268 | 48.599 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 520975 | 50.576 | ug/l | | 98 |
| 68) m/p-Xylenes | 10.299 | 106 | 390083 | 102.049 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 193241 | 49.989 | ug/l | | 99 |
| 70) Styrene | 10.652 | 104 | 331210 | 53.068 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 86906 | 49.769 | ug/l | # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 480397 | 47.772 | ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 240430 | 48.507 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 169562 | 48.822 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 142785m | 47.797 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 116886 | 49.729 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 562742 | 50.743 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 348599 | 48.661 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 402748 | 49.198 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 64582 | 49.439 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 396992 | 50.588 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 402232 | 46.992 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 404571 | 48.633 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 491434 | 49.309 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 404929 | 49.439 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 212027 | 52.016 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 211171 | 51.247 | ug/l | | 98 |
| 89) n-Butylbenzene | 12.329 | 91 | 370043 | 52.602 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 85234 | 45.956 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 205003 | 48.972 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 34674 | 40.823 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 132044 | 52.765 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 48609 | 49.450 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 484495 | 50.197 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 133922 | 51.628 | ug/l | | 100 |

Sample Results: **VX044711.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations APPROVED**

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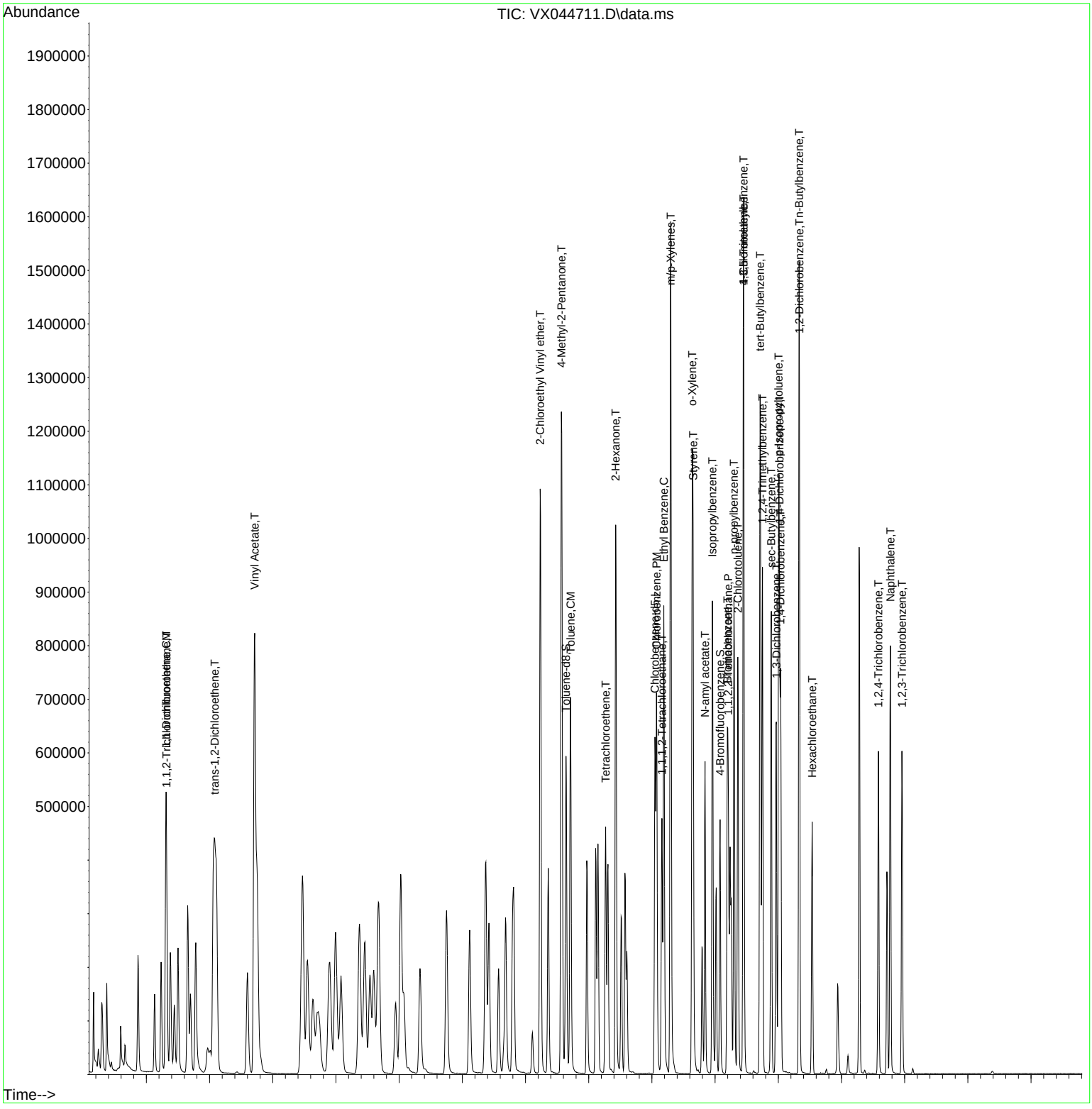
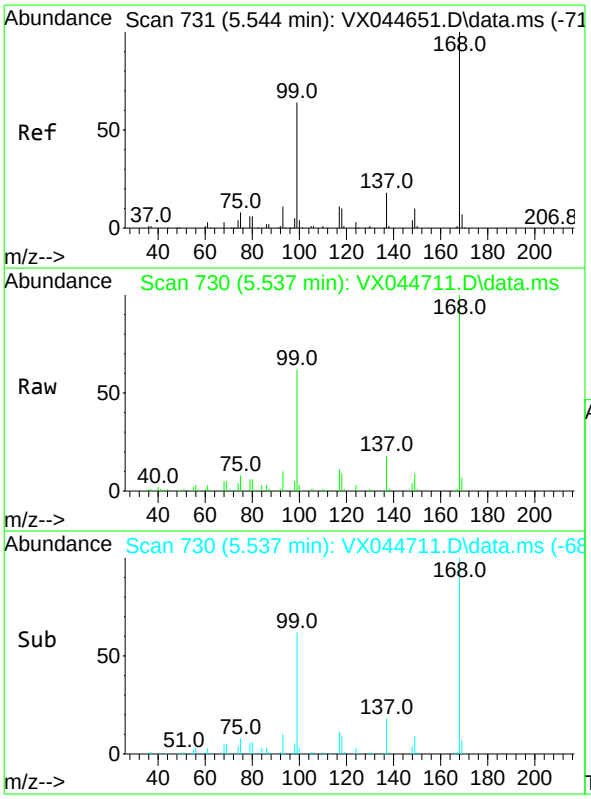
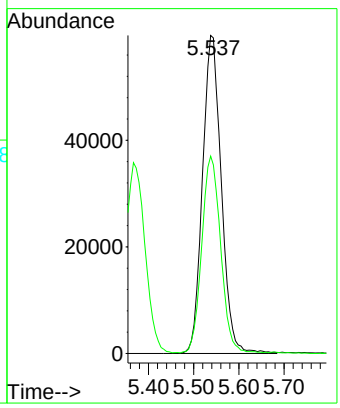





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 73
Delta R.T. -0.007 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:168 Resp: 172369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.8 | 51.1 | 76.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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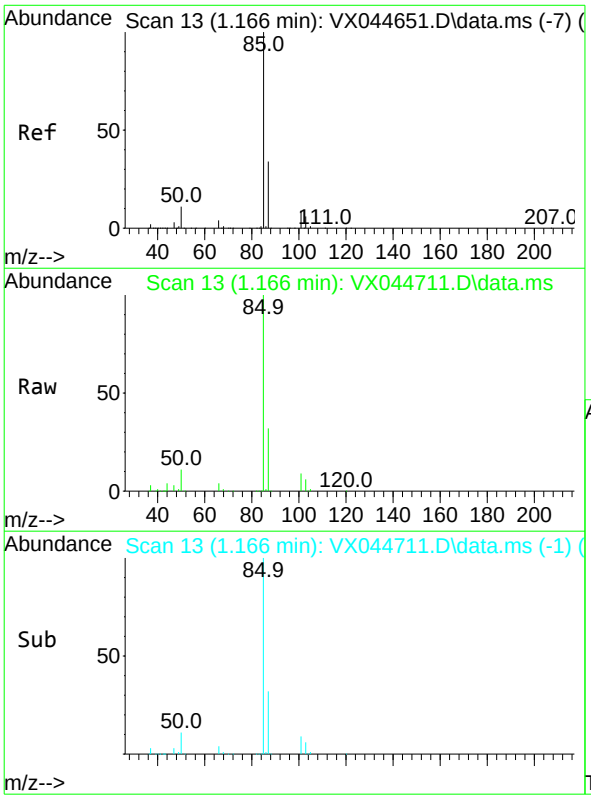
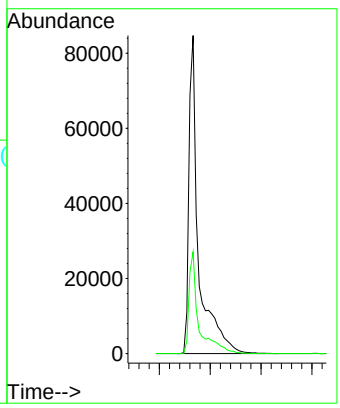
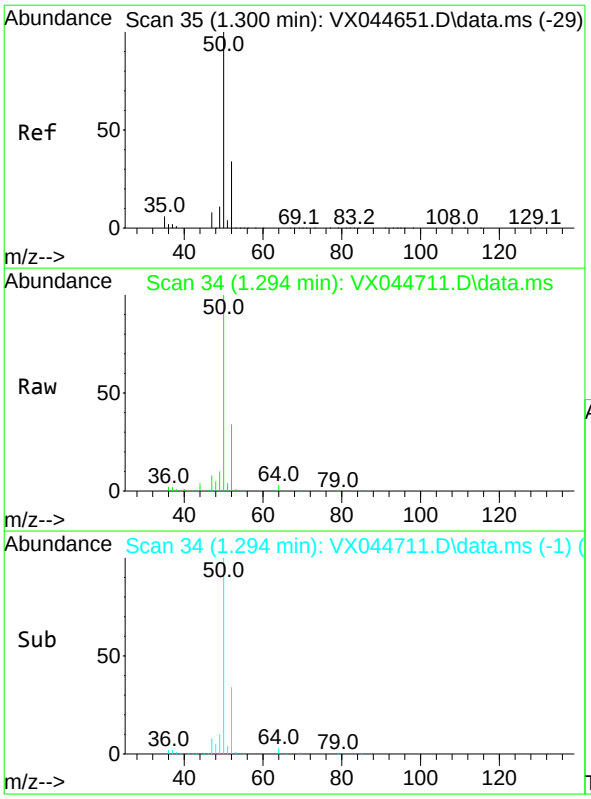



#2
Dichlorodifluoromethane
Concen: 48.124 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 85 Resp: 111623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.0 | 16.8 | 50.4 |

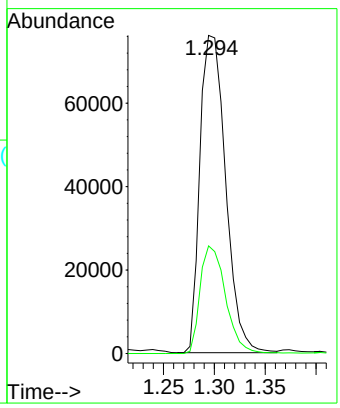





#3
Chloromethane
Concen: 53.335 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 50 Resp: 133778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.9 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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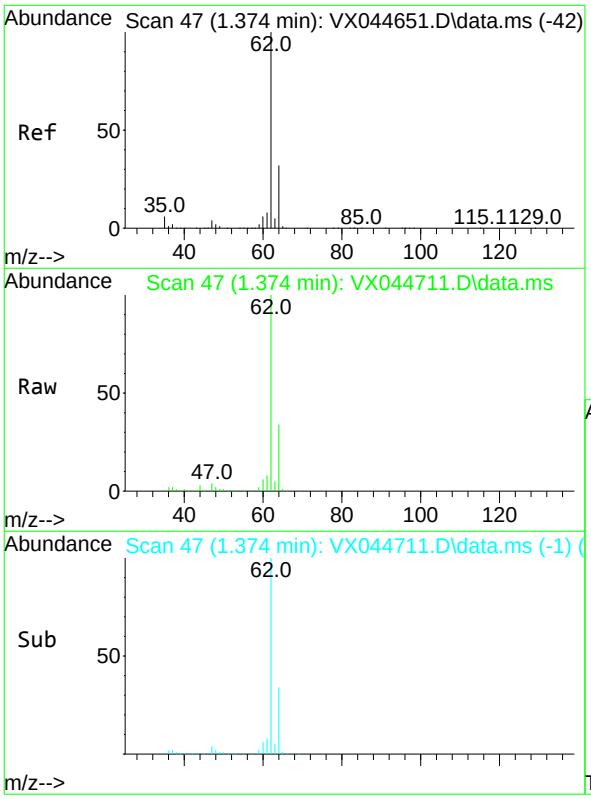
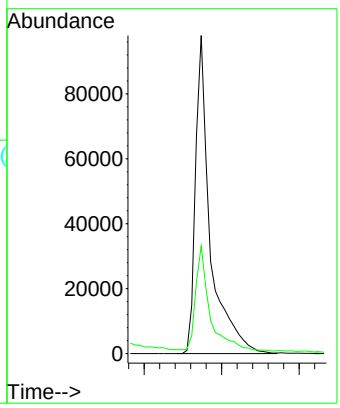
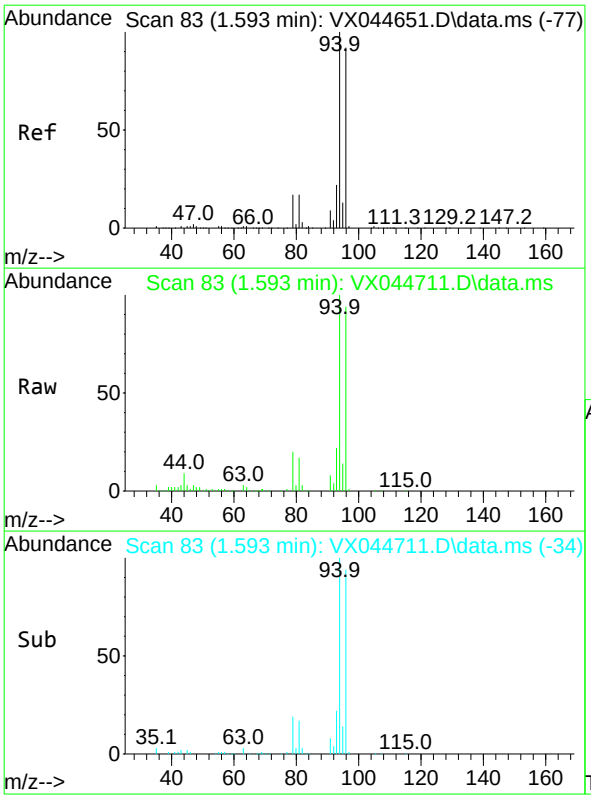



#4
Vinyl Chloride
Concen: 52.177 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 62 Resp: 129310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.9 | 26.6 | 39.8 |

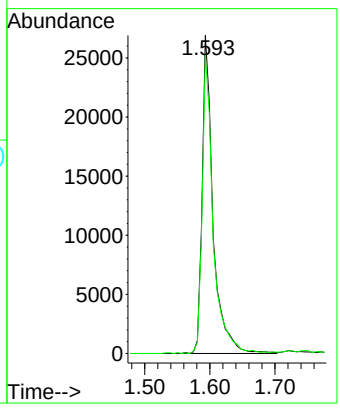





#5
Bromomethane
Concen: 52.854 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 94 Resp: 31277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.5 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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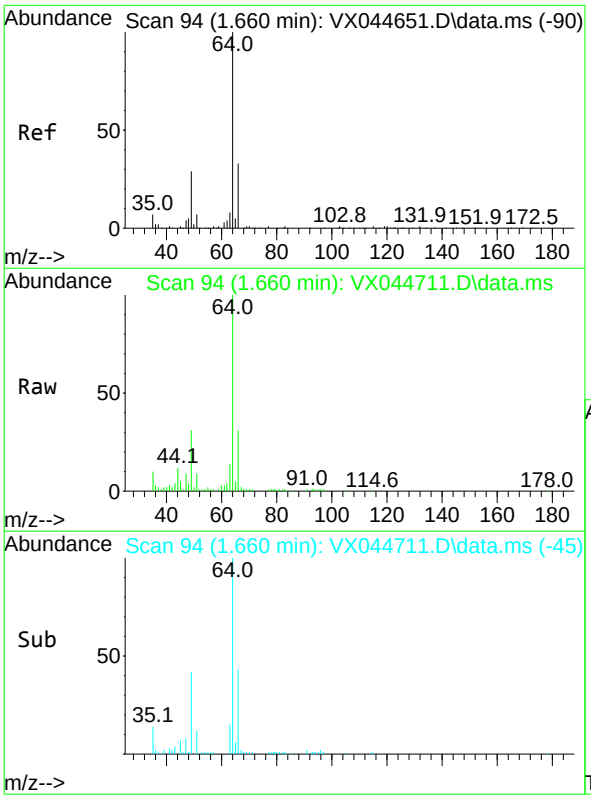
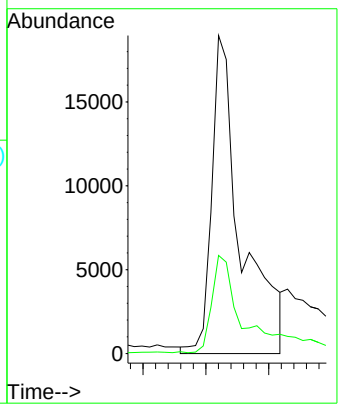
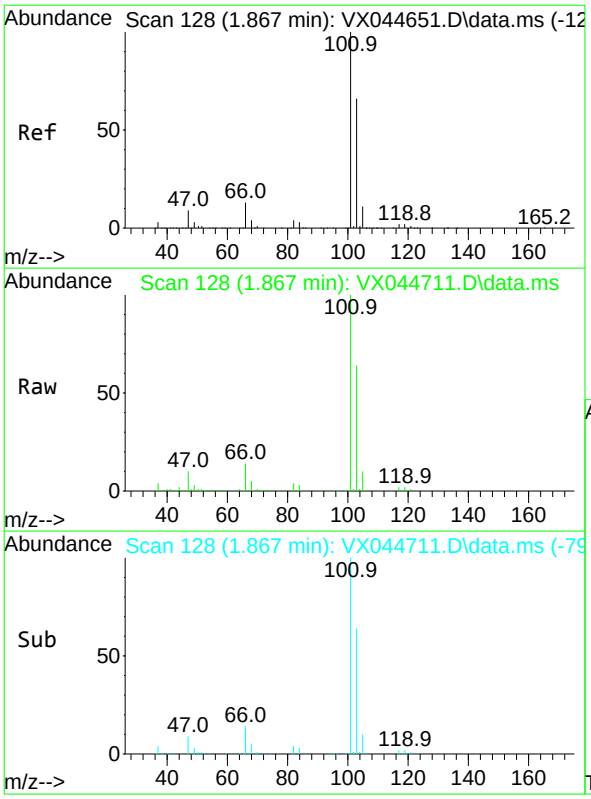



#6
Chloroethane
Concen: 67.485 ug/l m
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 64 Resp: 30670

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.9 | 26.6 | 39.8 |

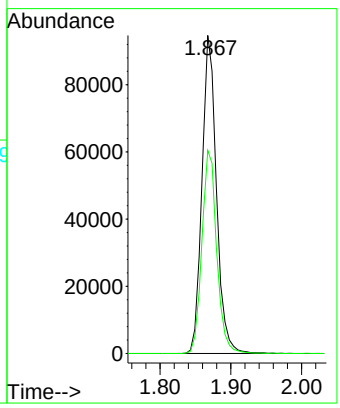





#7
Trichlorofluoromethane
Concen: 49.099 ug/l
RT: 1.867 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:101 Resp: 134485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.8 | 52.5 | 78.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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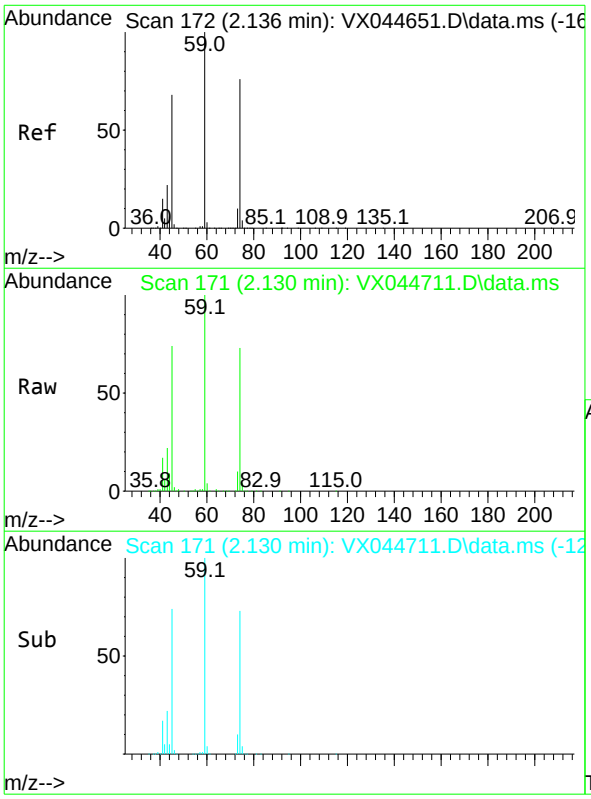
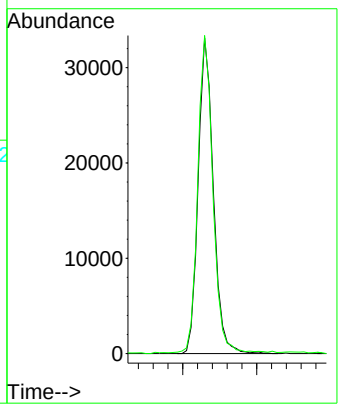
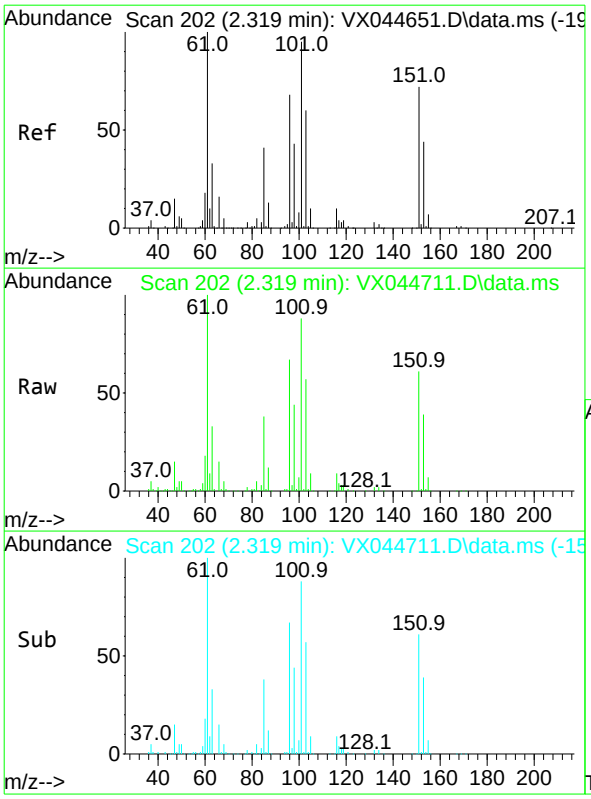



#8
Diethyl Ether
Concen: 42.582 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 74 Resp: 47069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 100.0 | 47.1 | 141.3 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.232 ug/l
RT: 2.319 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 105487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.2 | 35.3 | 52.9 |
| 151 | 70.9 | 58.2 | 87.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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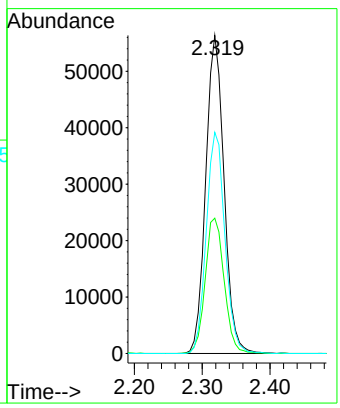
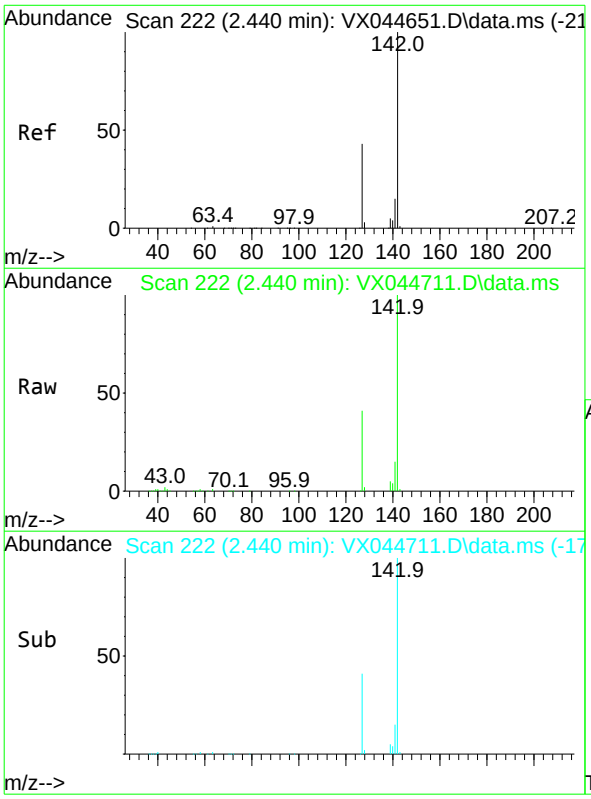
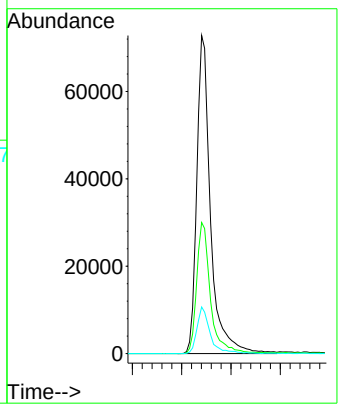


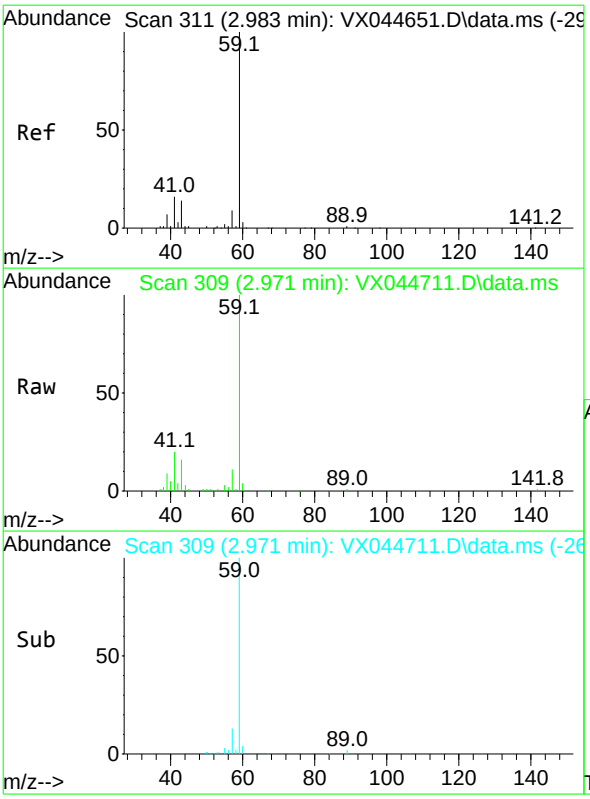




#10
Methyl Iodide
Concen: 50.103 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:142 Resp: 140845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 41.6 | 35.0 | 52.4 |
| 141 | 14.1 | 11.7 | 17.5 |

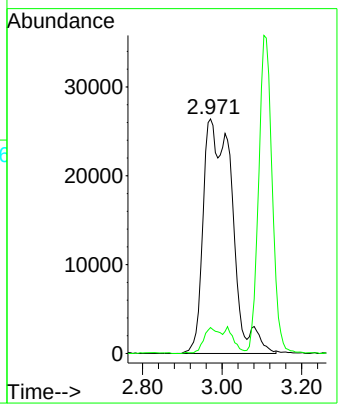





#11
Tert butyl alcohol
Concen: 229.357 ug/l m
RT: 2.971 min Scan# 30
Delta R.T. -0.012 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 59 Resp: 133032

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 6.1 | 3.9 | 5.9# |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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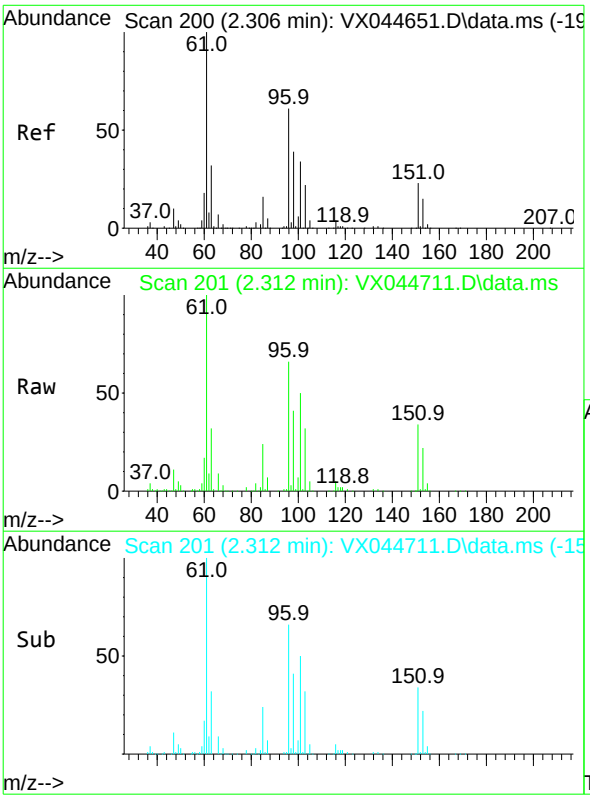
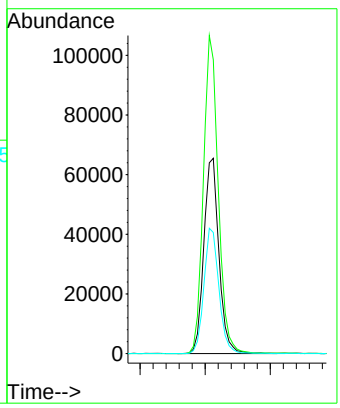
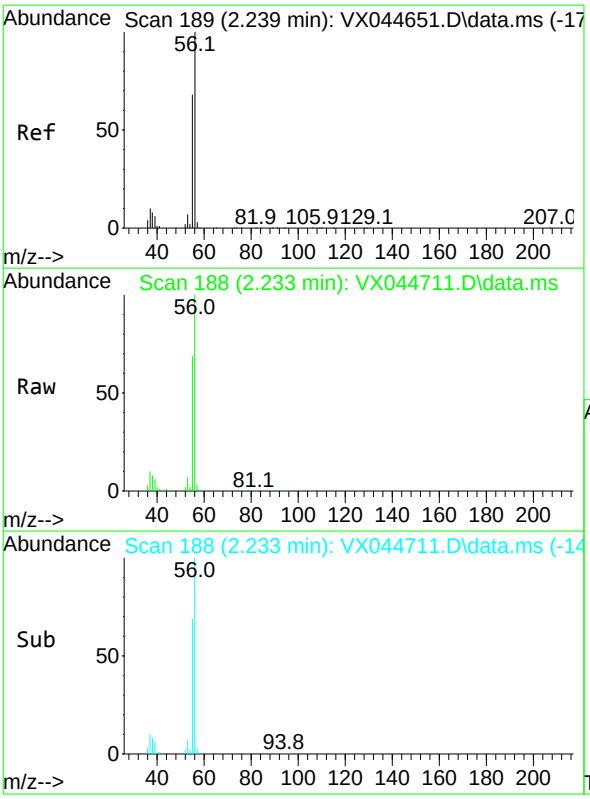



#12
1,1-Dichloroethene
Concen: 52.279 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 96 Resp: 105513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 150.4 | 131.1 | 196.7 |
| 98 | 62.0 | 51.2 | 76.8 |

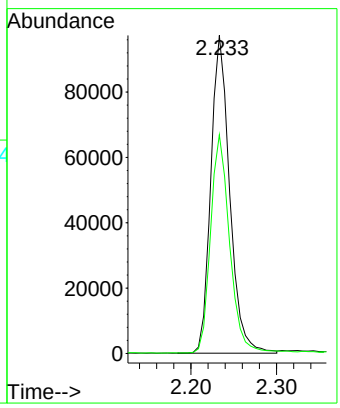





#13
Acrolein
Concen: 544.657 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 56 Resp: 148664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.5 | 55.1 | 82.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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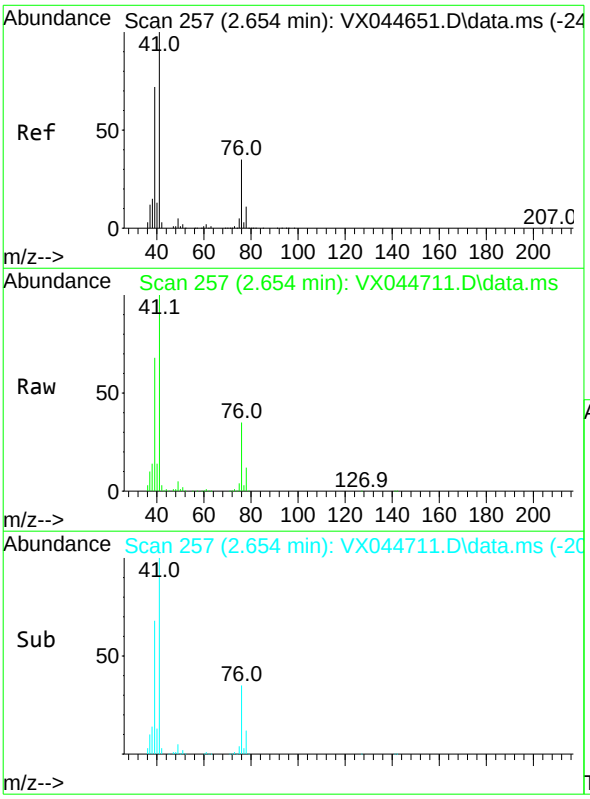
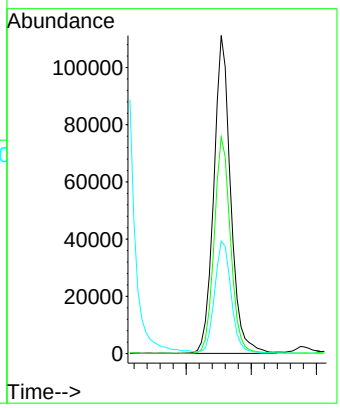
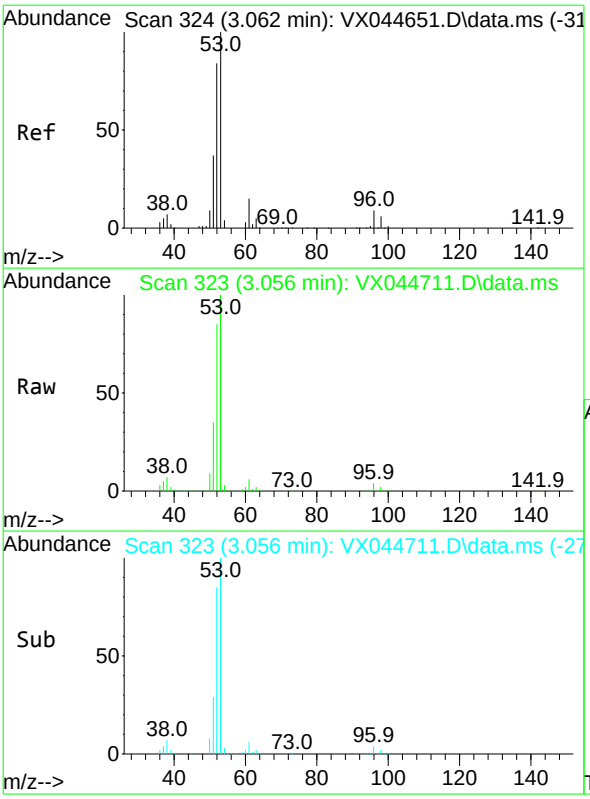



#14
Allyl chloride
Concen: 50.932 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 41 Resp: 200142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.0 | 54.9 | 82.3 |
| 76 | 34.4 | 28.4 | 42.6 |






#15
Acrylonitrile
Concen: 267.495 ug/l
RT: 3.056 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

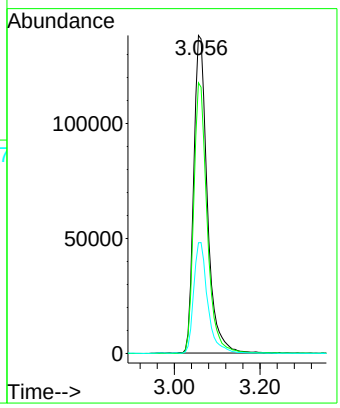
Tgt Ion: 53 Resp: 304312

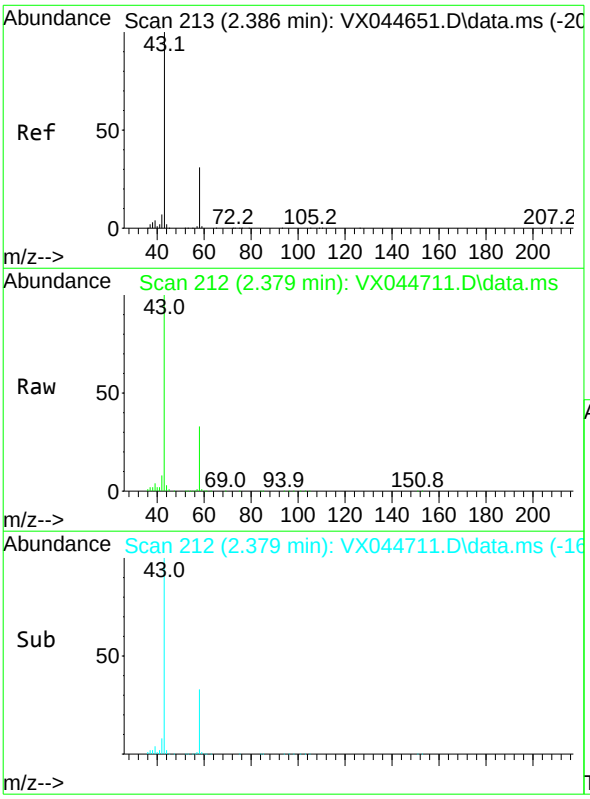
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.3 | 66.0 | 99.0 |
| 51 | 35.7 | 28.9 | 43.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

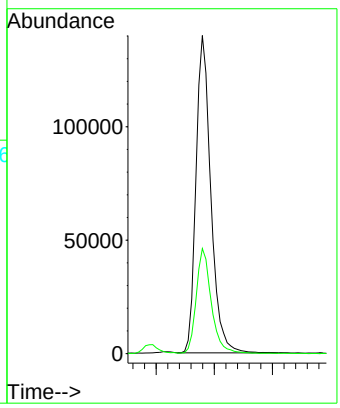


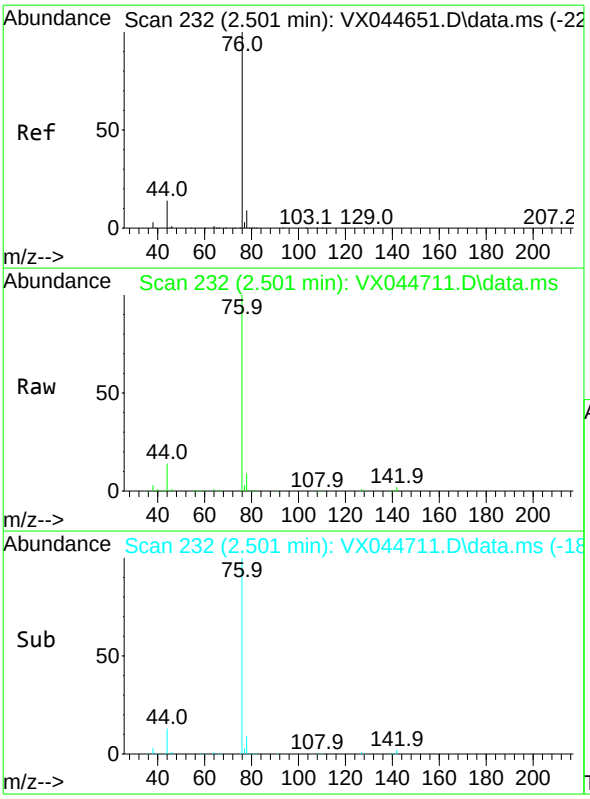




#16
Acetone
Concen: 240.764 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 43 Resp: 247835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.0 | 24.6 | 37.0 |

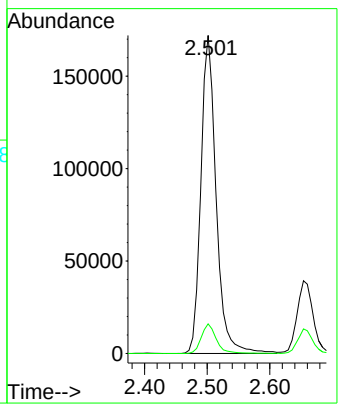





#17
Carbon Disulfide
Concen: 52.854 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 76 Resp: 291079

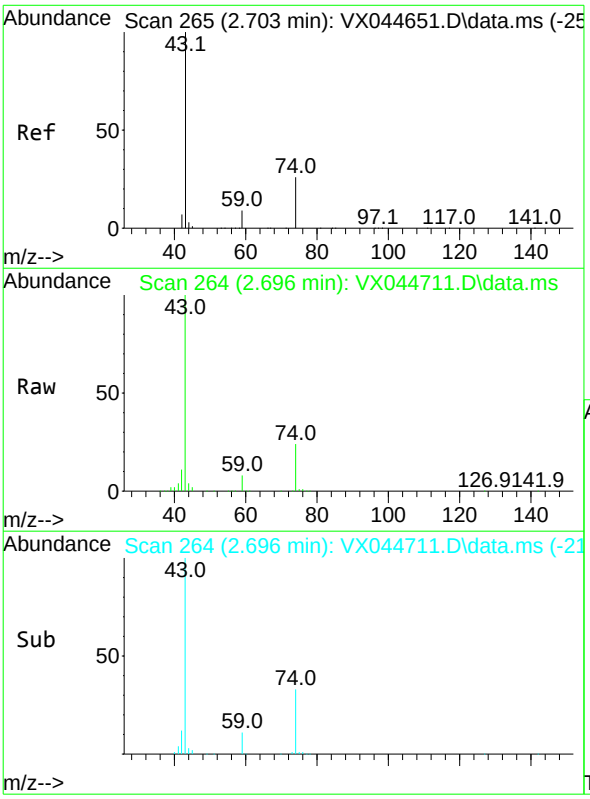
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 7.1 | 10.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

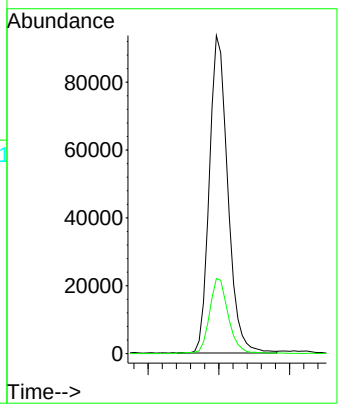
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

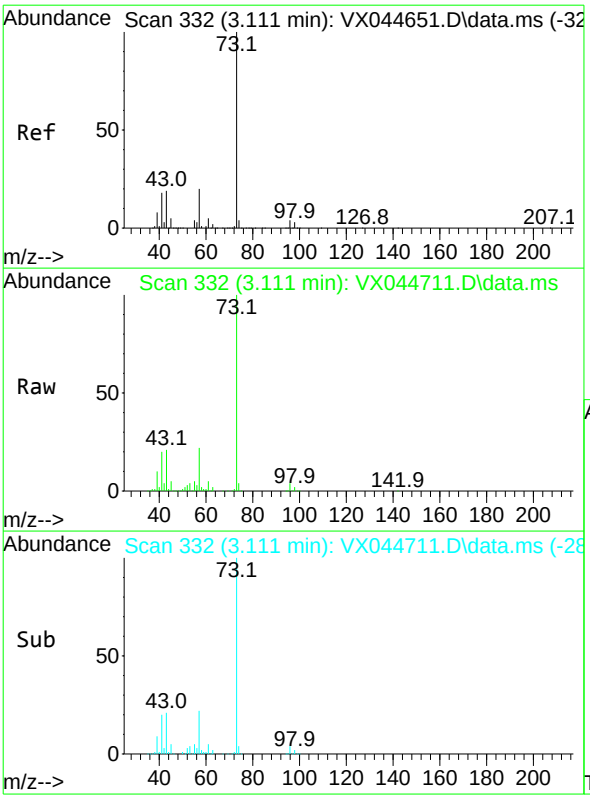



#18
Methyl Acetate
Concen: 53.407 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 43 Resp: 169609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.3 | 19.8 | 29.8 |






#19
Methyl tert-butyl Ether
Concen: 51.834 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 73 Resp: 378923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.4 | 26.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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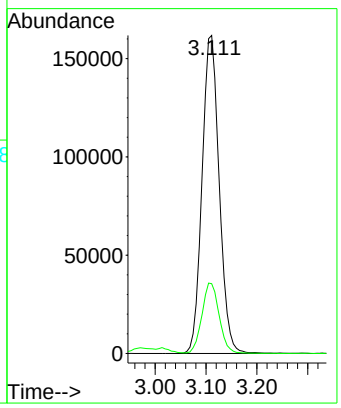
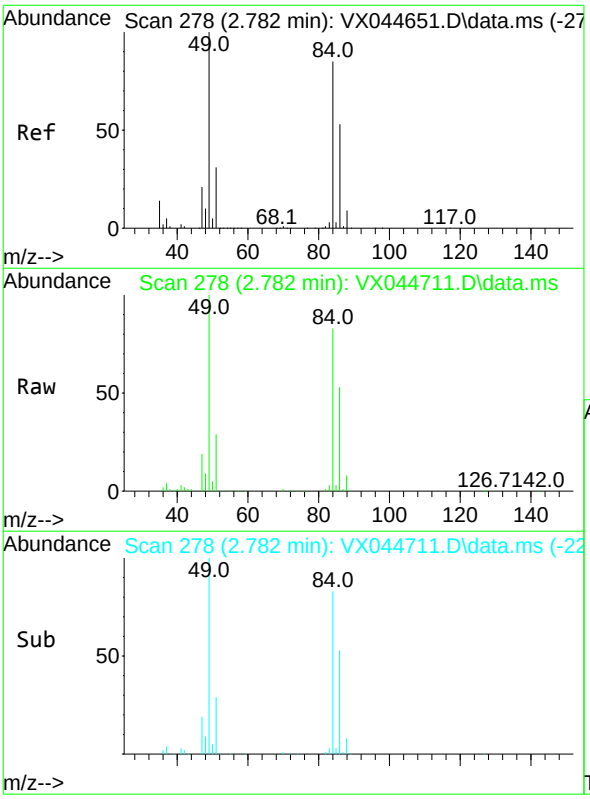
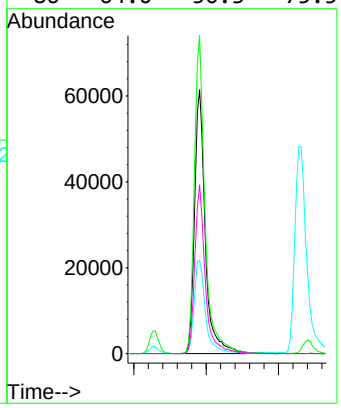


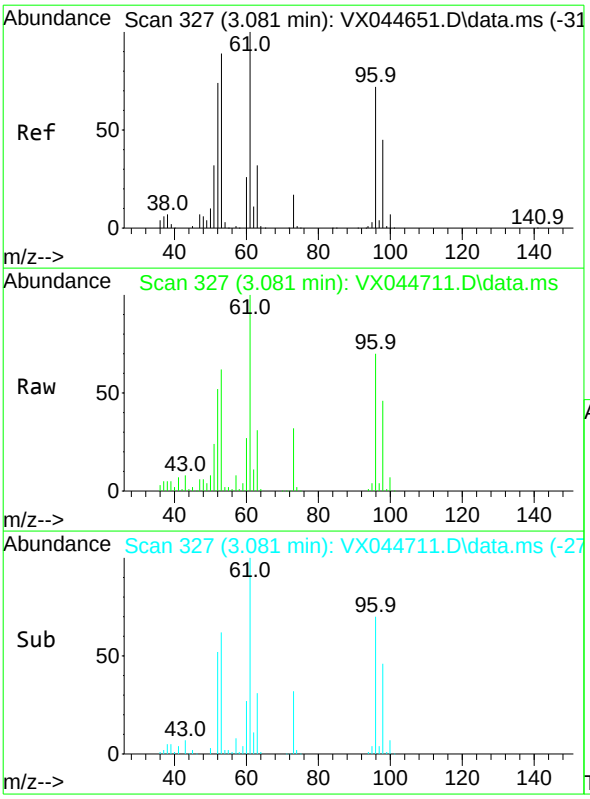




#20
Methylene Chloride
Concen: 52.799 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 84 Resp: 126568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 120.5 | 94.2 | 141.4 |
| 51 | 35.3 | 28.8 | 43.2 |
| 86 | 64.0 | 50.3 | 75.5 |

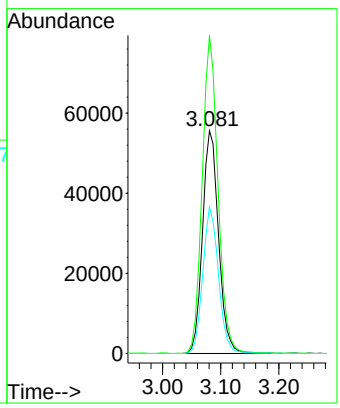





#21
trans-1,2-Dichloroethene
Concen: 50.522 ug/l
RT: 3.081 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 96 Resp: 106458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.8 | 111.0 | 166.6 |
| 98 | 65.9 | 50.2 | 75.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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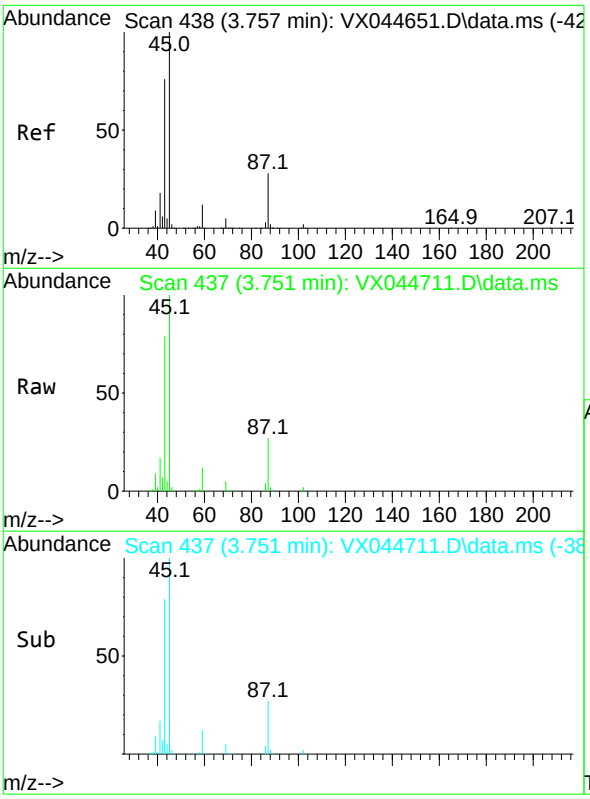
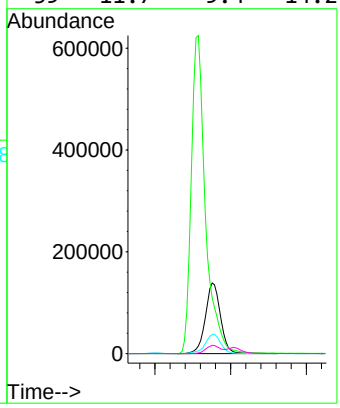
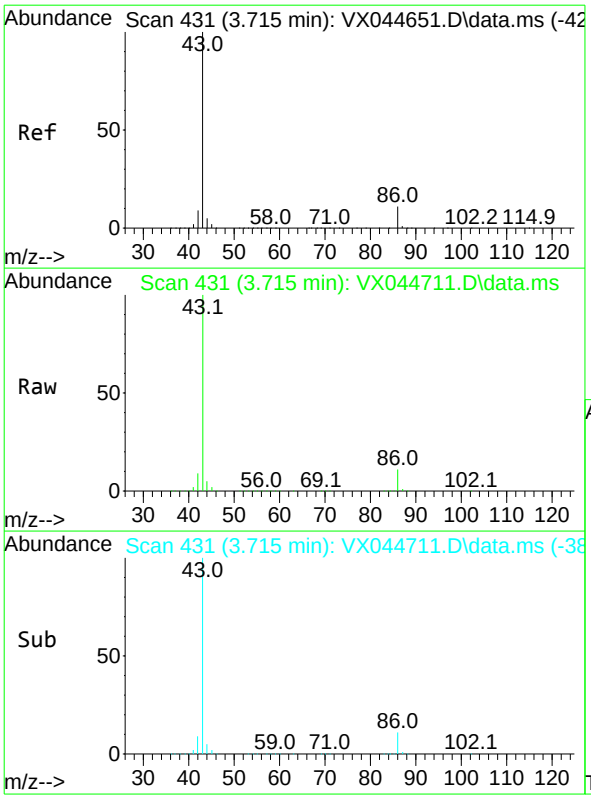



#22
Diisopropyl ether
Concen: 56.003 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 45 Resp: 382549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 78.7 | 61.0 | 91.6 |
| 87 | 27.0 | 22.7 | 34.1 |
| 59 | 11.7 | 9.4 | 14.2 |






#23
Vinyl Acetate
Concen: 272.725 ug/l
RT: 3.715 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 1630552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.1 | 8.9 | 13.3 |

**Manual Integrations**
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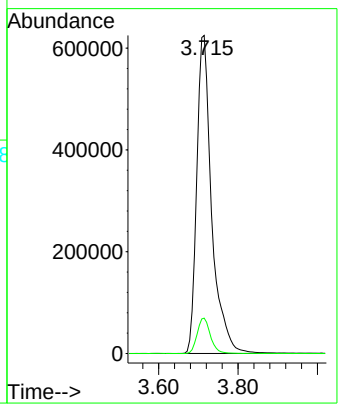
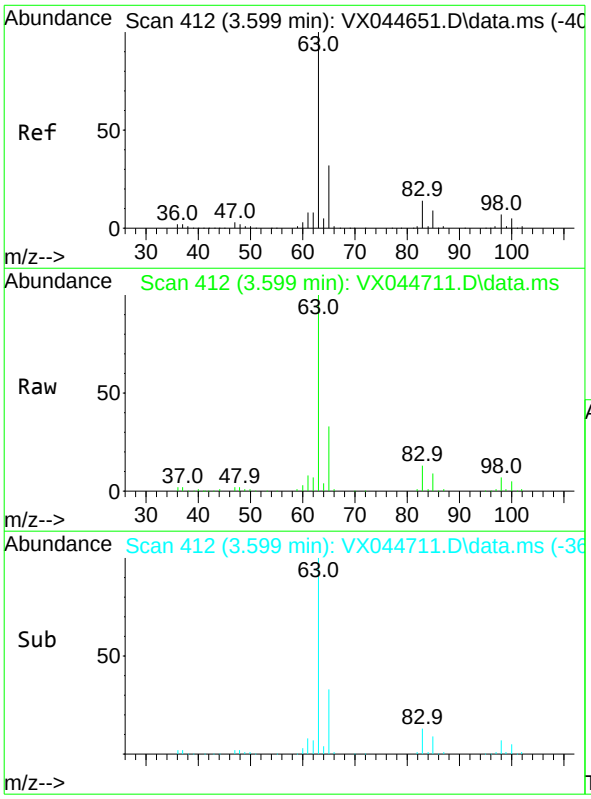
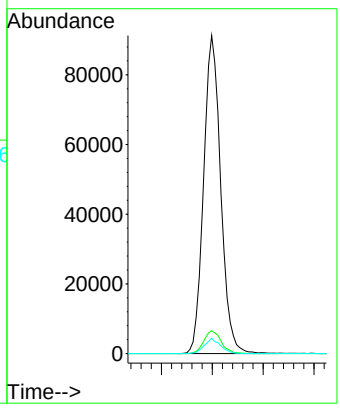


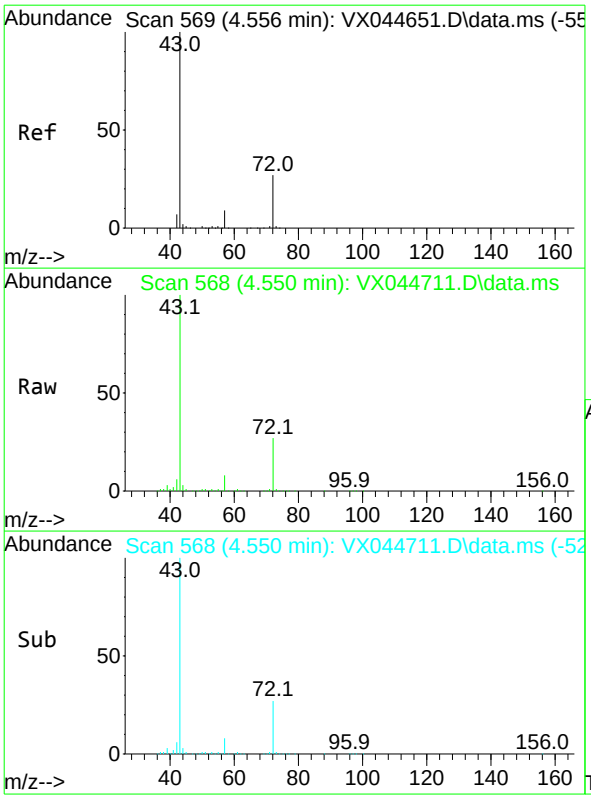




#24
1,1-Dichloroethane
Concen: 52.632 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 63 Resp: 213198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.6 | 10.9 |
| 100 | 4.9 | 2.5 | 7.5 |

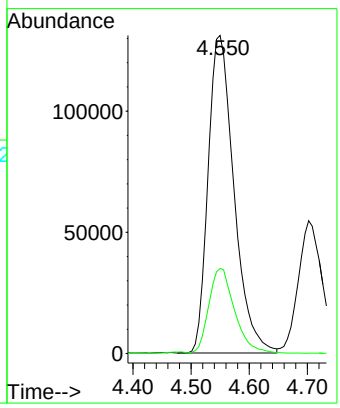





#25
2-Butanone
Concen: 264.600 ug/l
RT: 4.550 min Scan# 56
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 43 Resp: 404966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.5 | 21.7 | 32.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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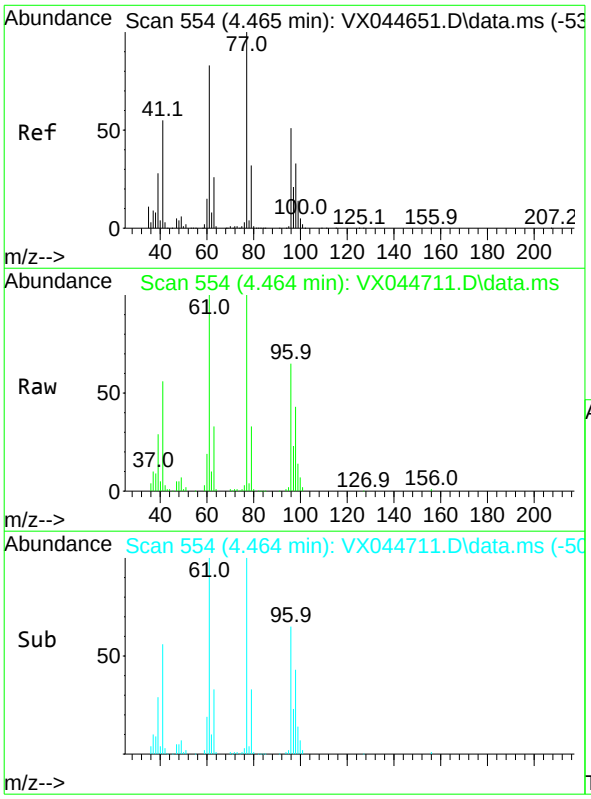
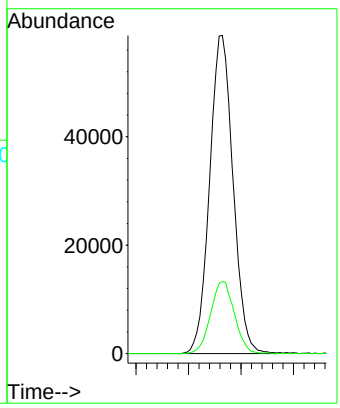
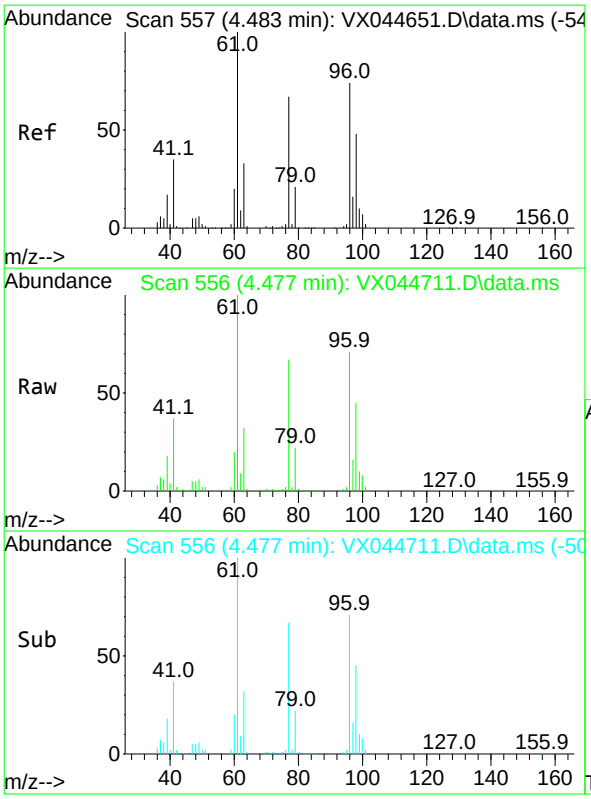



#26
2,2-Dichloropropane
Concen: 46.357 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 77 Resp: 181991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.0 | 10.9 | 32.6 |

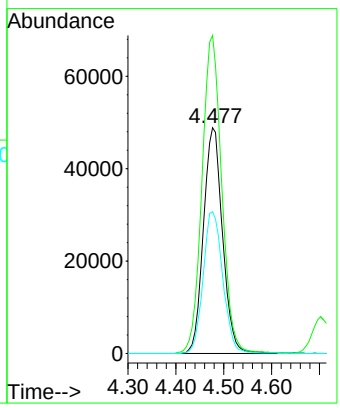





#27
cis-1,2-Dichloroethene
Concen: 51.078 ug/l
RT: 4.477 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 96 Resp: 135384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 145.8 | 0.0 | 296.0 |
| 98 | 64.6 | 0.0 | 130.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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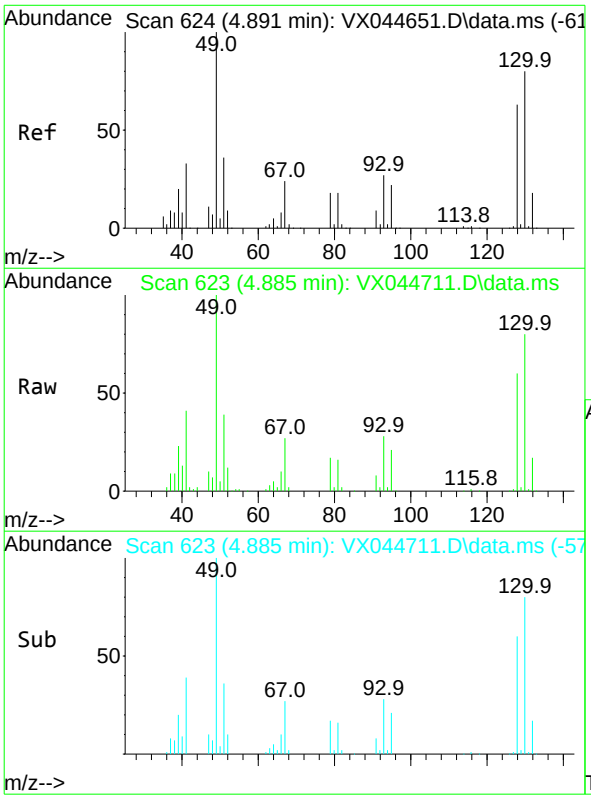
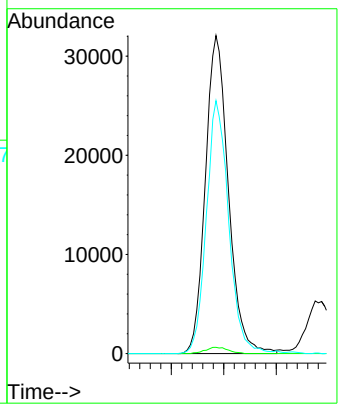
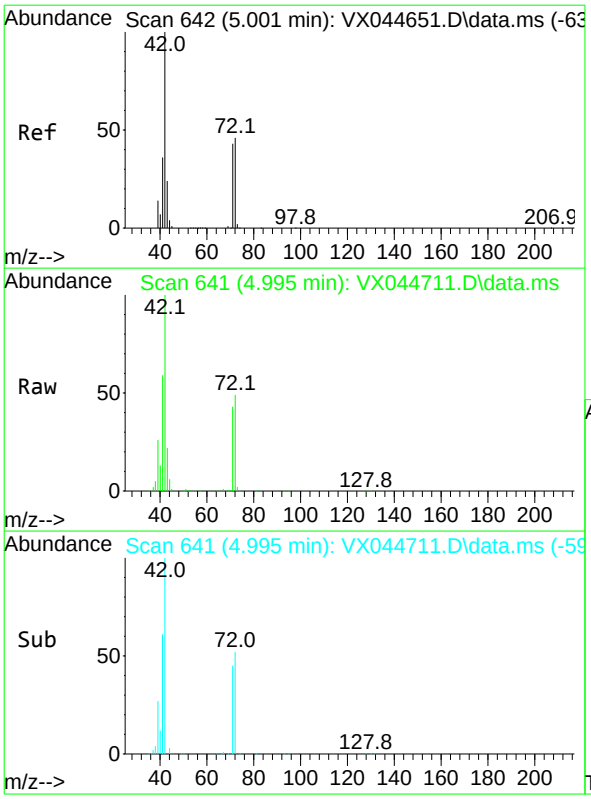



#28
Bromochloromethane
Concen: 51.564 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 49 Resp: 97603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 4.4 |
| 130 | 77.1 | 63.4 | 95.2 |






#29
Tetrahydrofuran
Concen: 263.398 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 42 Resp: 260029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.1 | 38.2 | 57.4 |
| 71 | 43.1 | 35.3 | 52.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

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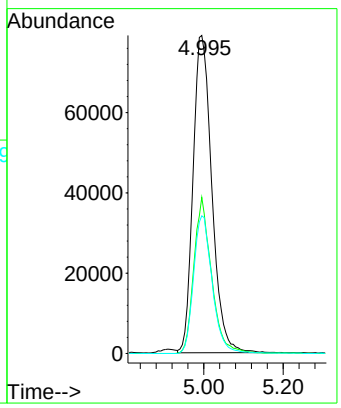
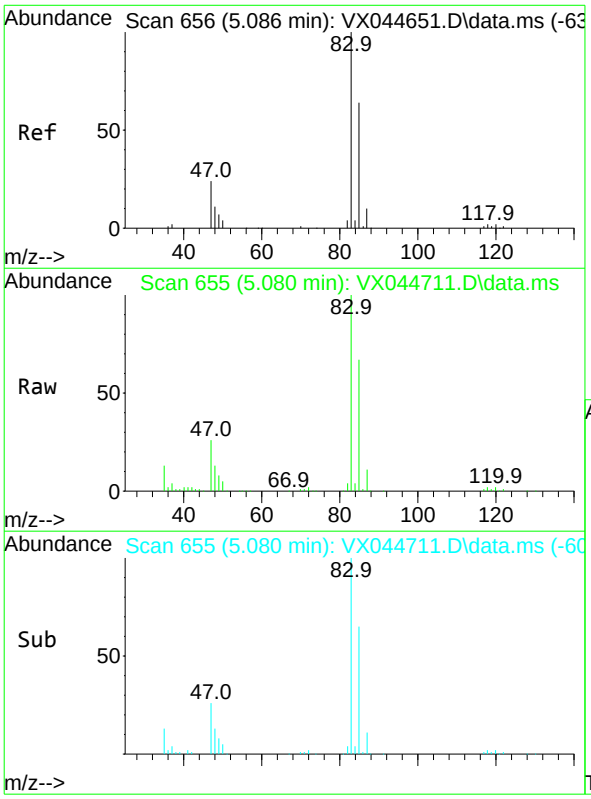
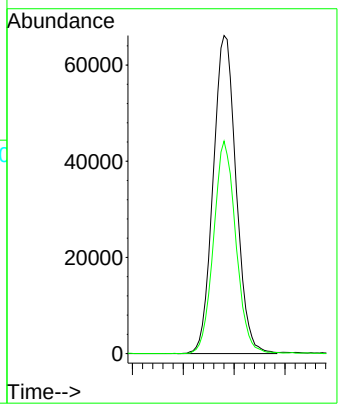


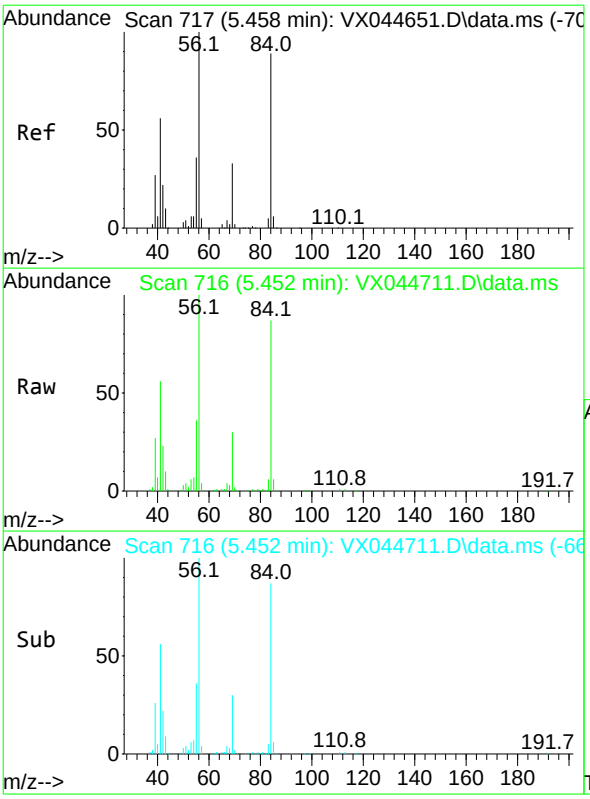




#30
Chloroform
Concen: 50.771 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 83 Resp: 207551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.8 | 51.2 | 76.8 |






#31
Cyclohexane
Concen: 53.957 ug/l
RT: 5.452 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 176773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 29.8 | 26.8 | 40.2 |
| 84 | 85.8 | 71.0 | 106.4 |

**Manual Integrations**
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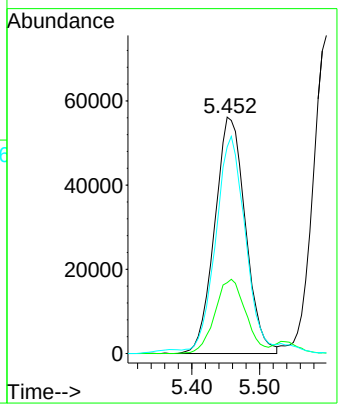
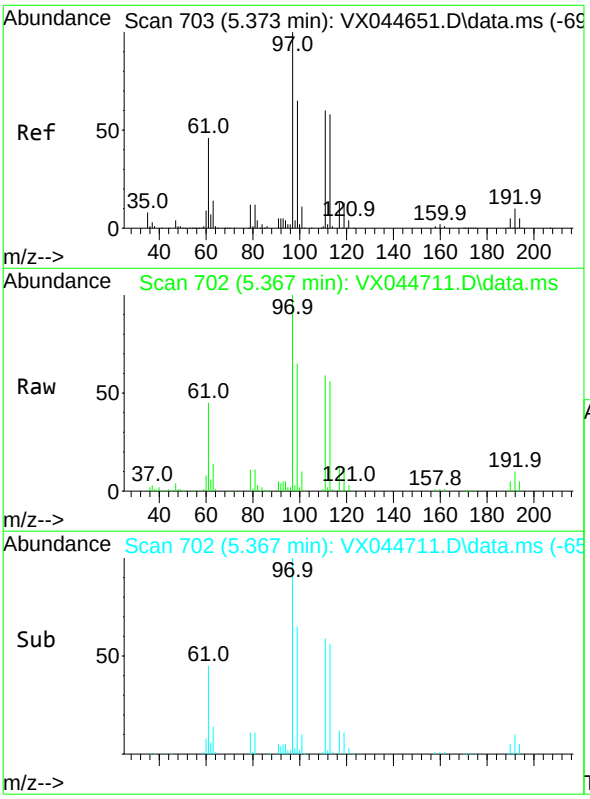
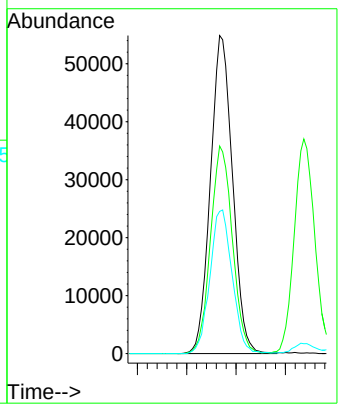


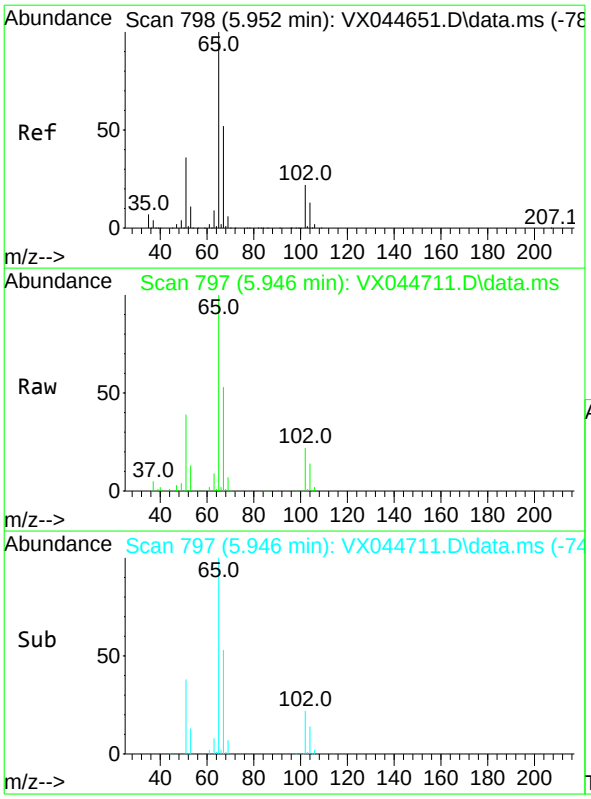




#32
1,1,1-Trichloroethane
Concen: 45.490 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 97 Resp: 170957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.6 | 77.4 |
| 61 | 45.5 | 35.6 | 53.4 |

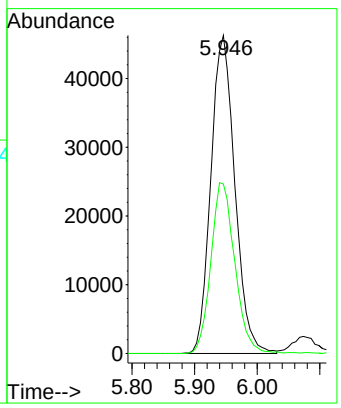





#33
1,2-Dichloroethane-d4
Concen: 47.336 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 65 Resp: 123157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 103.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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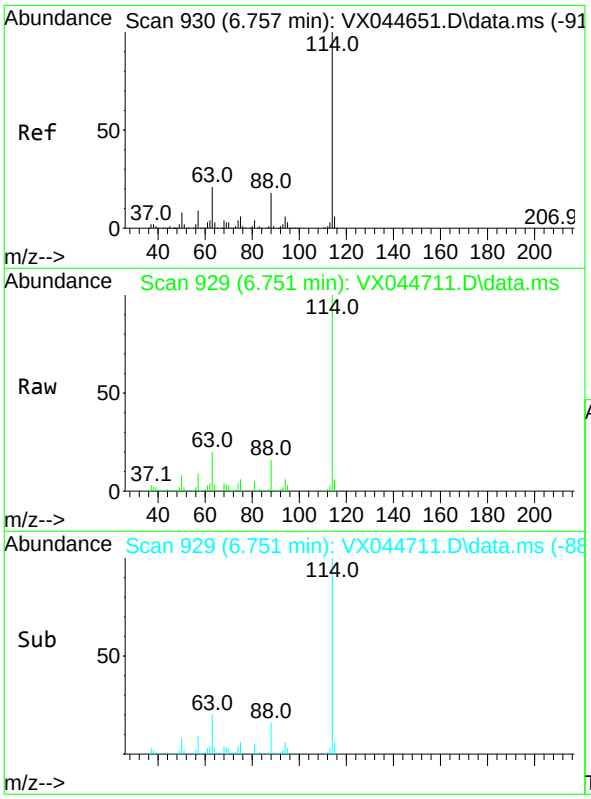
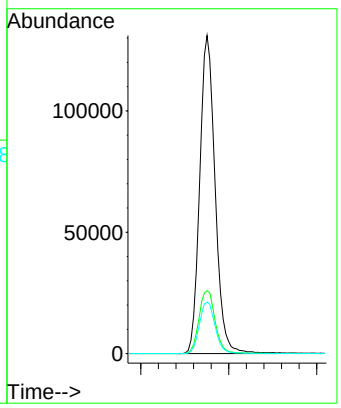
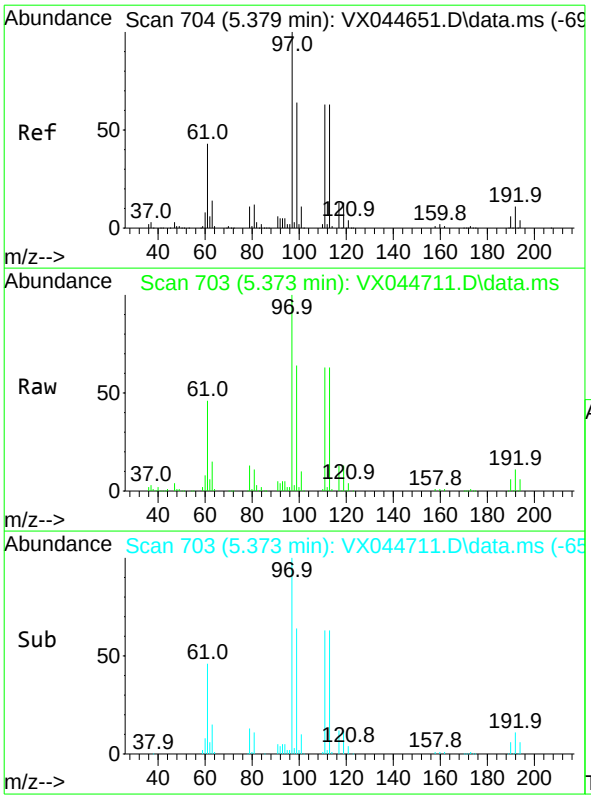



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:114 Resp: 318376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 43.0 |
| 88 | 16.2 | 0.0 | 35.4 |

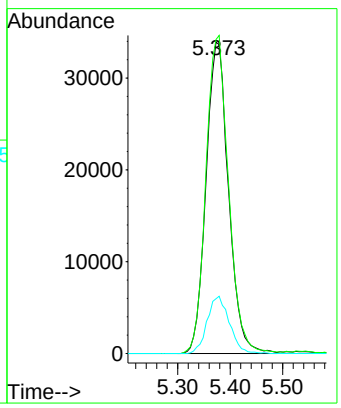





#35
Dibromofluoromethane
Concen: 49.831 ug/l
RT: 5.373 min Scan# 70
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:113 Resp: 100788

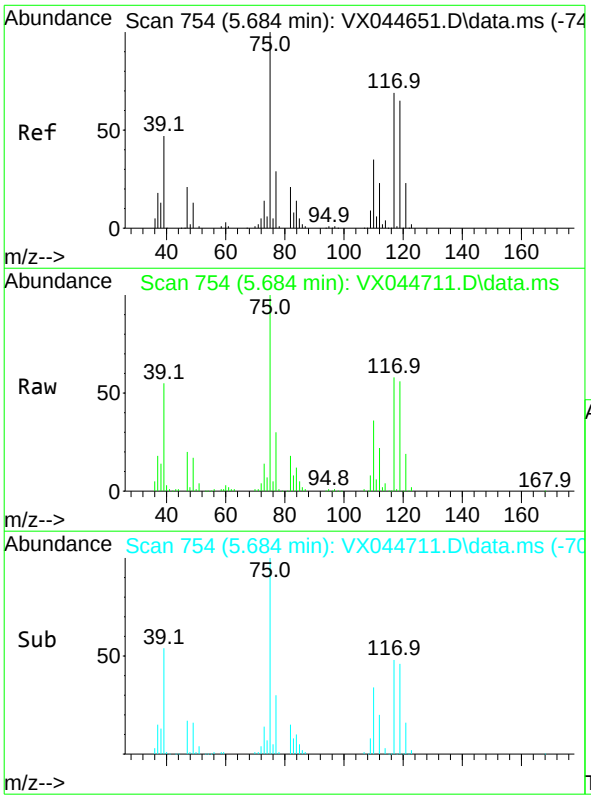
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 81.6 | 122.4 |
| 192 | 18.1 | 14.4 | 21.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

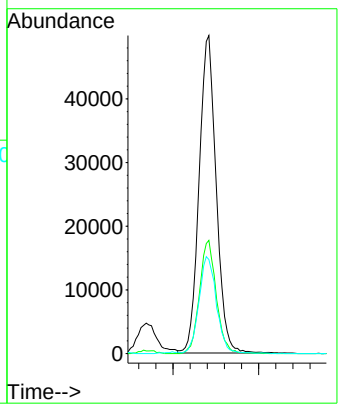
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

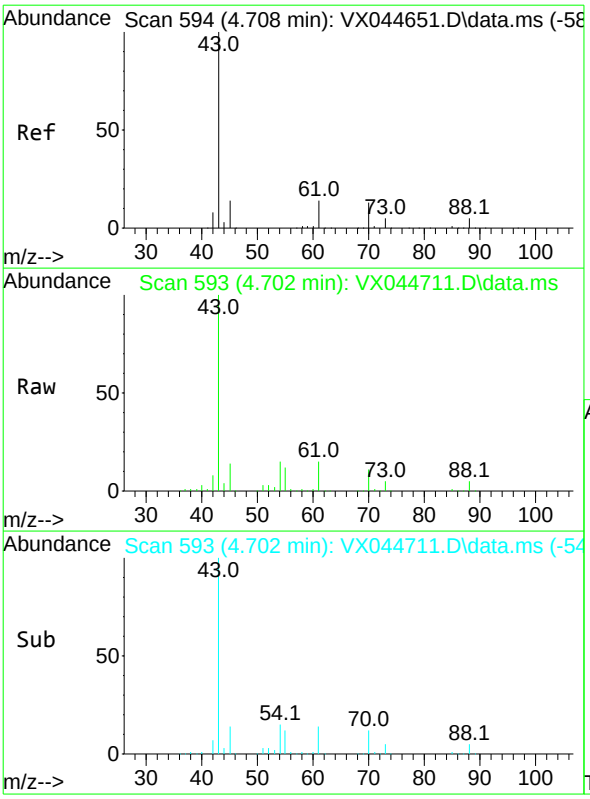



#36
1,1-Dichloropropene
Concen: 48.940 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 75 Resp: 137792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.1 | 17.9 | 53.8 |
| 77 | 31.0 | 24.5 | 36.7 |

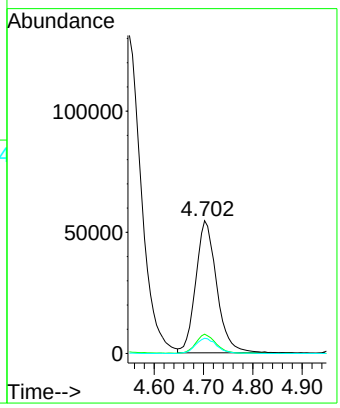





#37
Ethyl Acetate
Concen: 53.669 ug/l
RT: 4.702 min Scan# 59
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 43 Resp: 160916

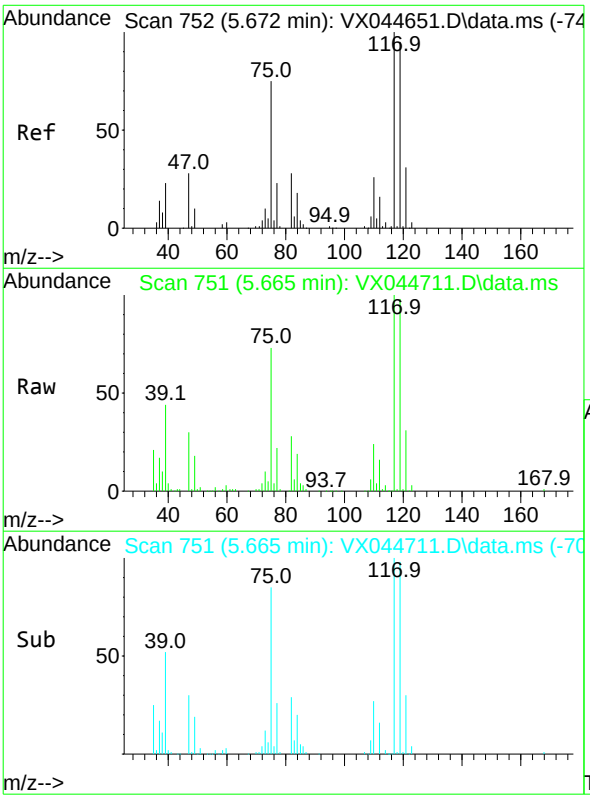
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.5 | 10.9 | 16.3 |
| 70 | 11.7 | 10.1 | 15.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

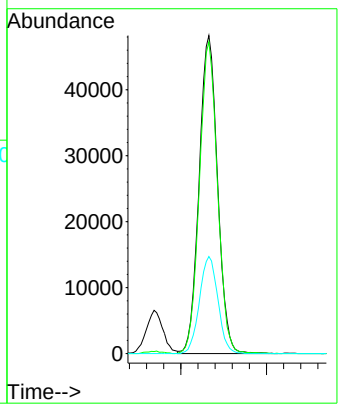
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

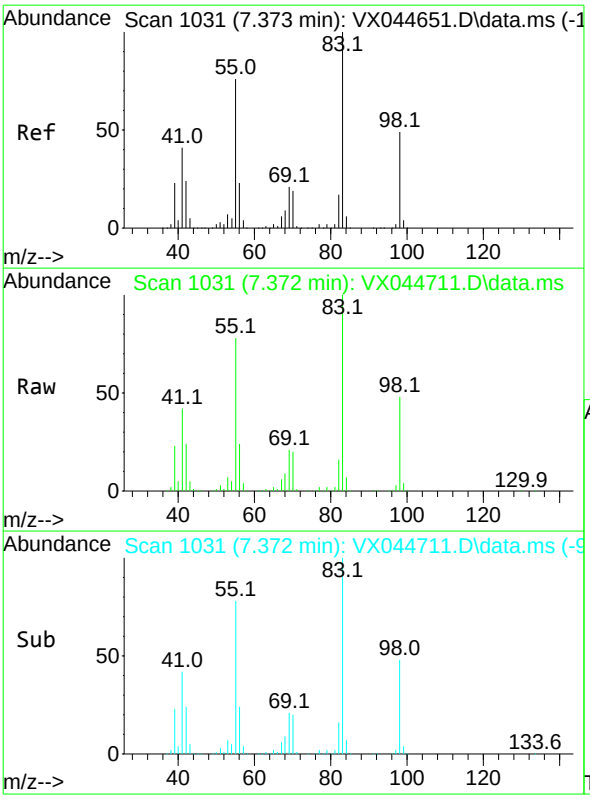



#38
Carbon Tetrachloride
Concen: 45.521 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:117 Resp: 144163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.9 | 76.0 | 114.0 |
| 121 | 30.5 | 24.6 | 36.8 |

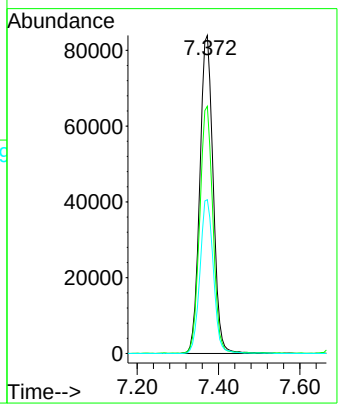





#39
Methylcyclohexane
Concen: 51.179 ug/l
RT: 7.372 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 83 Resp: 191285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.6 | 60.5 | 90.7 |
| 98 | 48.4 | 39.0 | 58.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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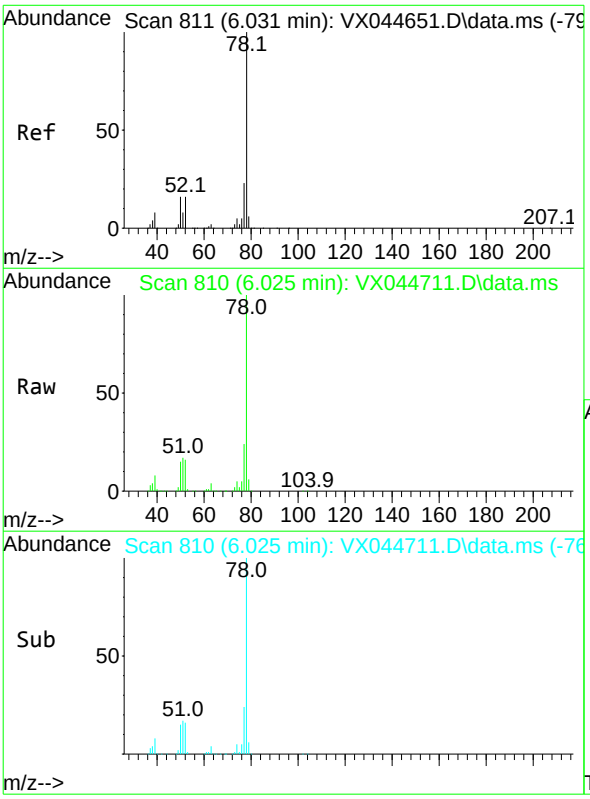
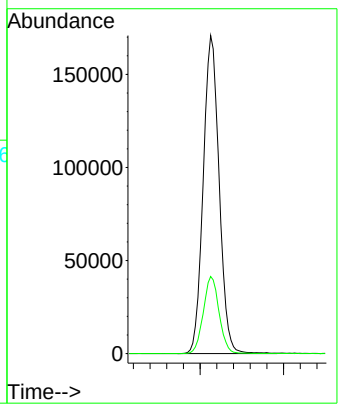
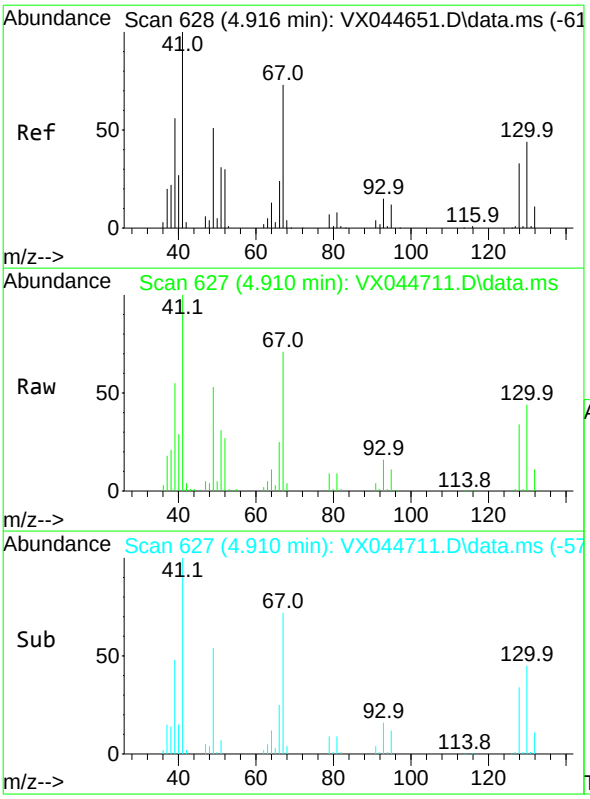



#40
Benzene
Concen: 51.868 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 78 Resp: 452521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 18.7 | 28.1 |

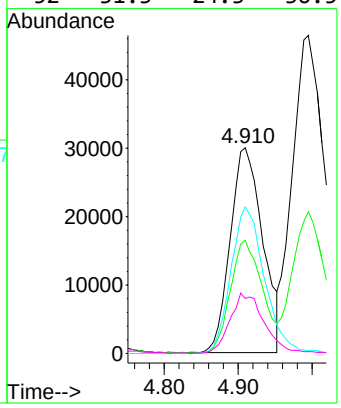





#41
Methacrylonitrile
Concen: 52.289 ug/l
RT: 4.910 min Scan# 62
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 41 Resp: 91356

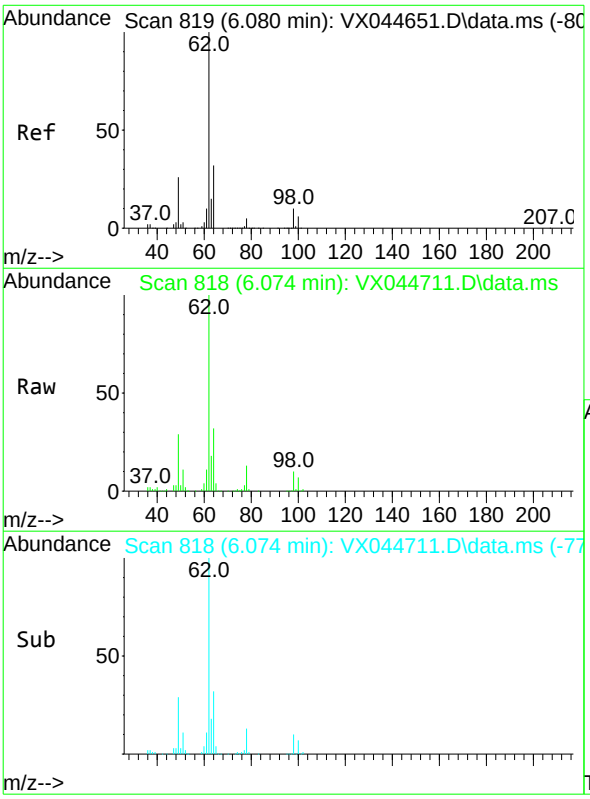
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.9 | 44.4 | 66.6 |
| 67 | 74.1 | 60.6 | 90.8 |
| 52 | 31.3 | 24.3 | 36.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

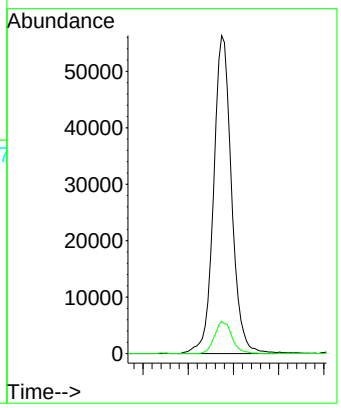
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

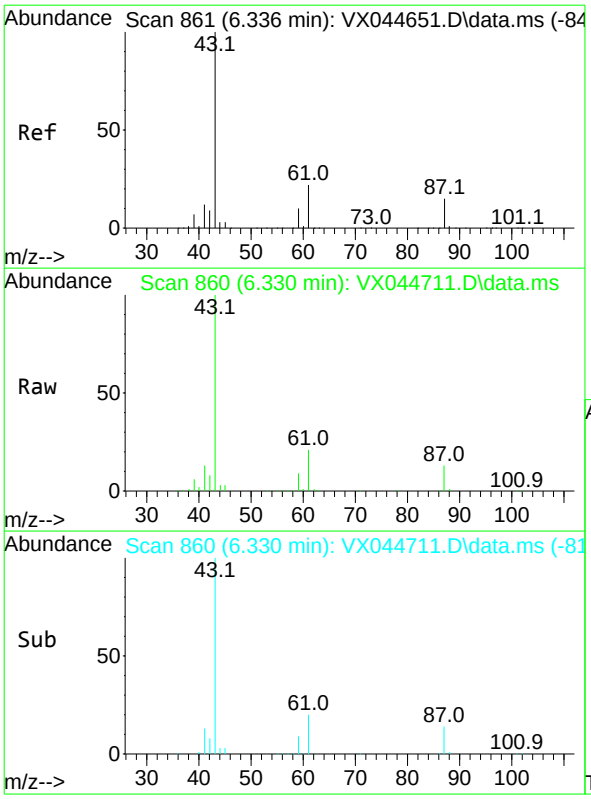



#42
1,2-Dichloroethane
Concen: 48.725 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 62 Resp: 155155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 19.4 |






#43
Isopropyl Acetate
Concen: 51.667 ug/l
RT: 6.330 min Scan# 86
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 284981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.5 | 16.6 | 24.8 |
| 87 | 13.6 | 11.0 | 16.6 |

**Manual Integrations**
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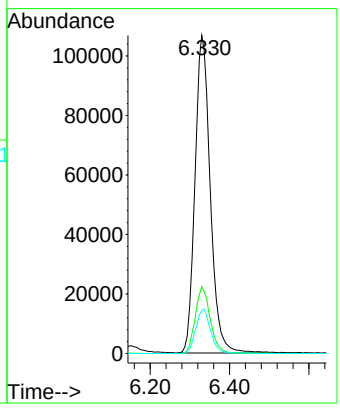
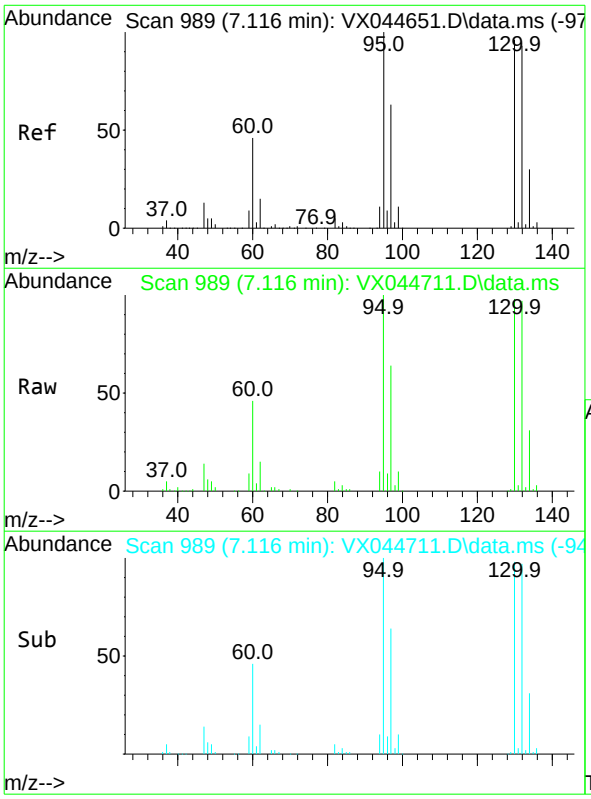
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

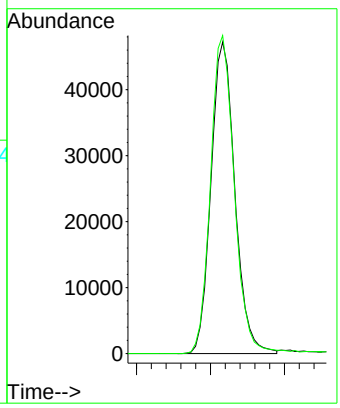


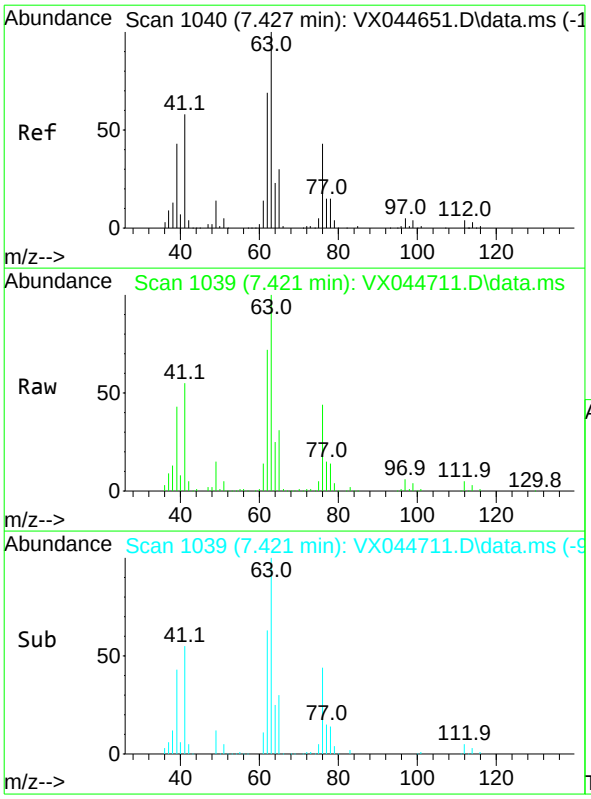




#44
Trichloroethene
Concen: 50.413 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:130 Resp: 105738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.1 | 0.0 | 208.2 |






#45
1,2-Dichloropropane
Concen: 53.245 ug/l
RT: 7.421 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

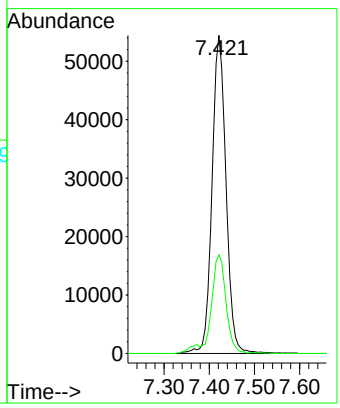
**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

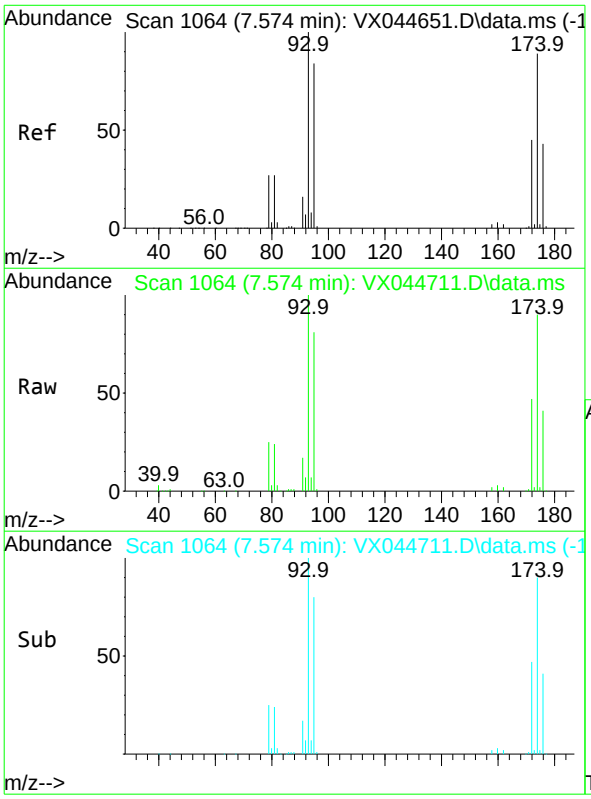
Tgt Ion: 63 Resp: 116931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.0 | 24.2 | 36.2 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

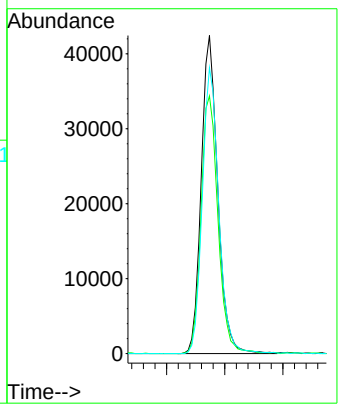


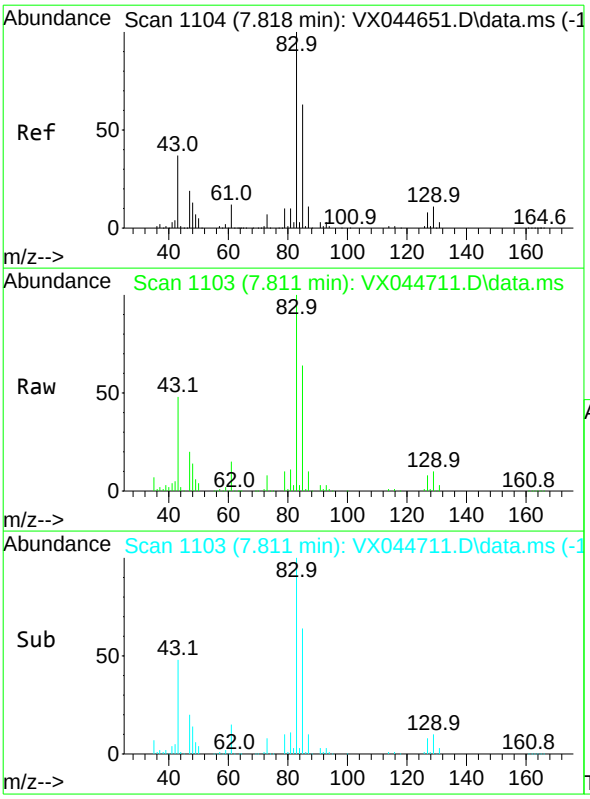




#46
Dibromomethane
Concen: 50.244 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 93 Resp: 83999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.8 | 66.4 | 99.6 |
| 174 | 89.7 | 72.0 | 108.0 |

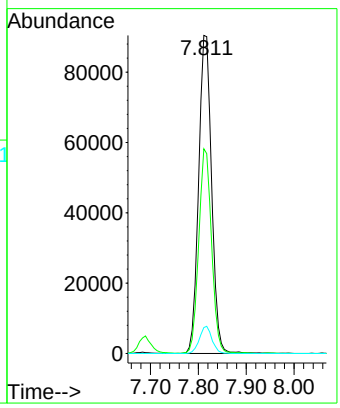





#47
Bromodichloromethane
Concen: 49.656 ug/l
RT: 7.811 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 83 Resp: 170245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 50.1 | 75.1 |
| 127 | 8.1 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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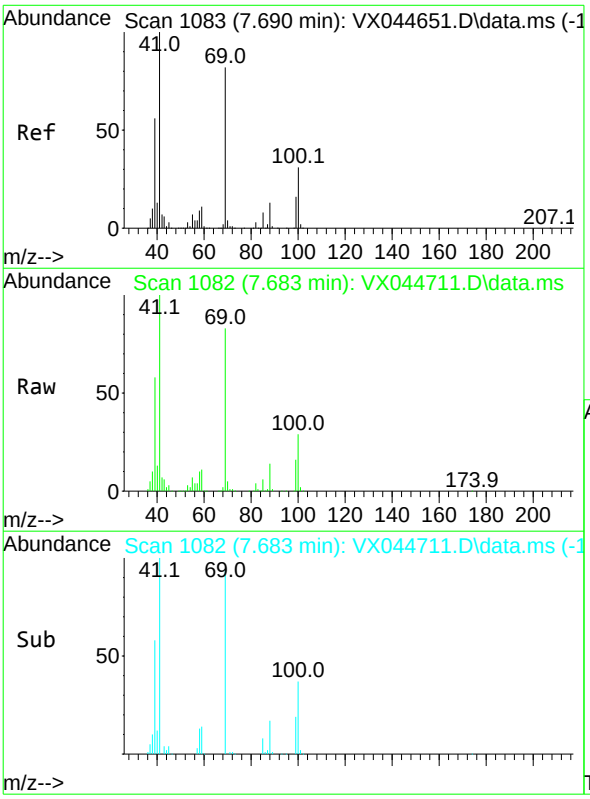
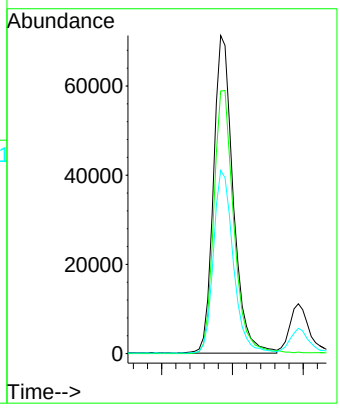
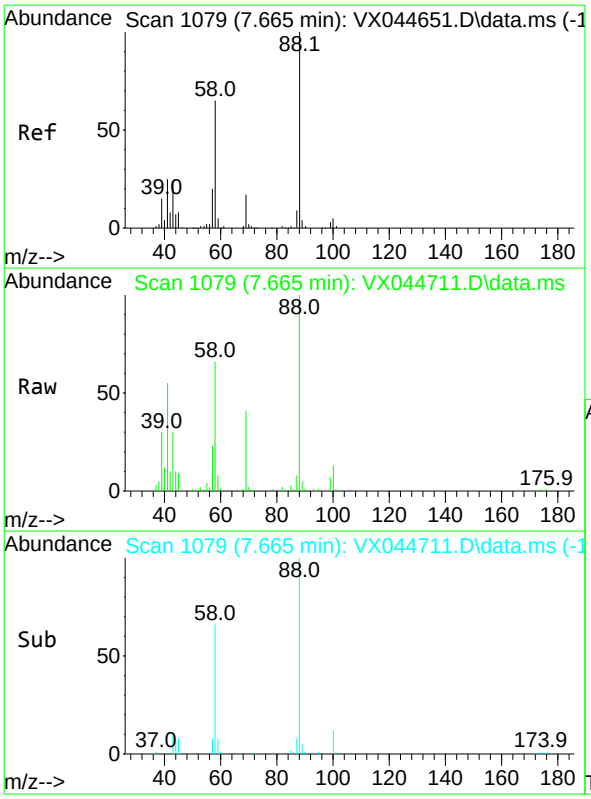



#48
Methyl methacrylate
Concen: 53.829 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 41 Resp: 137818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.1 | 66.8 | 100.2 |
| 39 | 58.0 | 47.4 | 71.0 |






#49
1,4-Dioxane
Concen: 991.841 ug/l
RT: 7.665 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 88 Resp: 52981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.2 | 27.0 | 40.4 |
| 58 | 70.3 | 55.8 | 83.8 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

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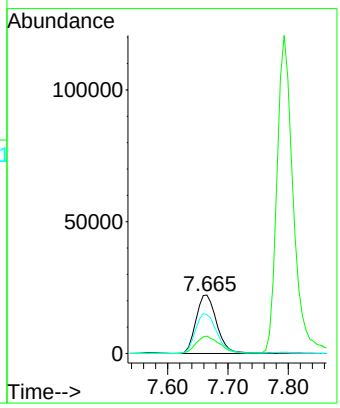
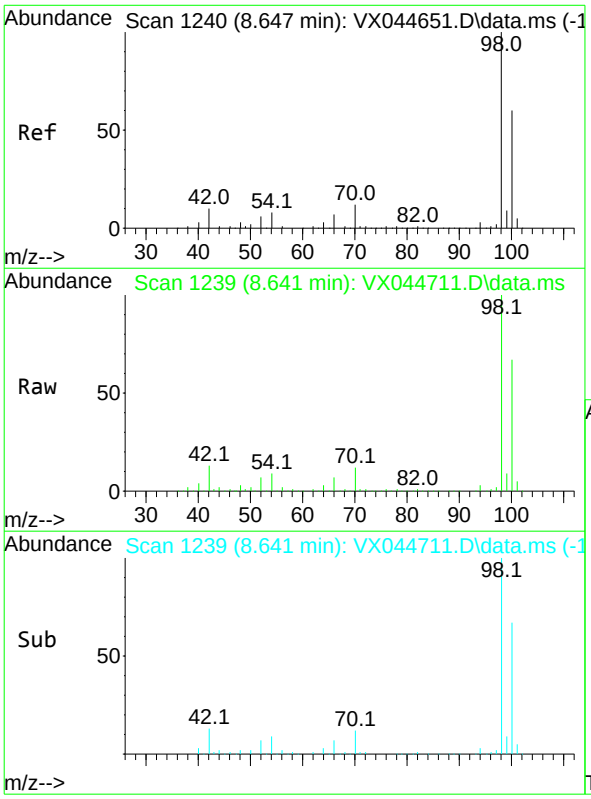
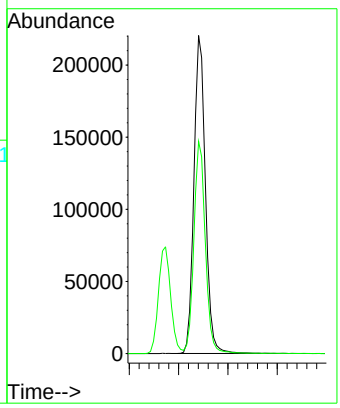


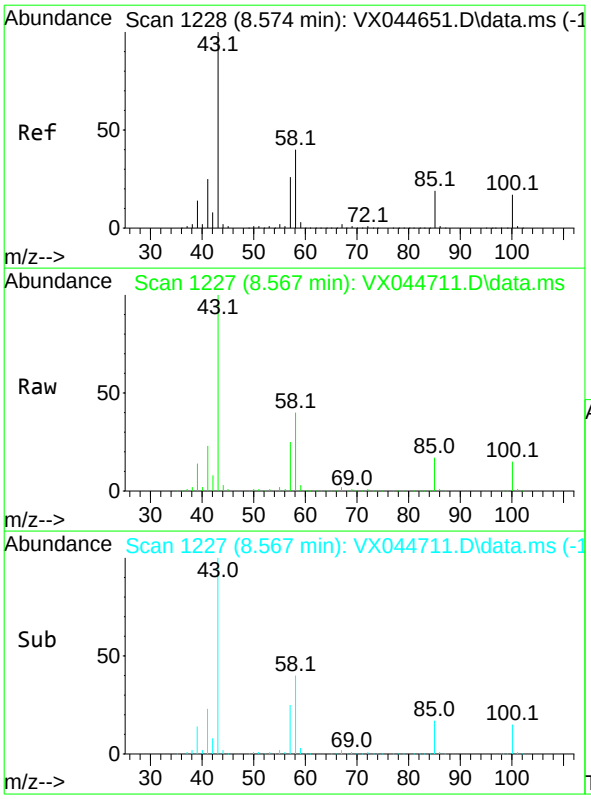




#50
Toluene-d8
Concen: 50.477 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 98 Resp: 355984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.4 | 53.2 | 79.8 |

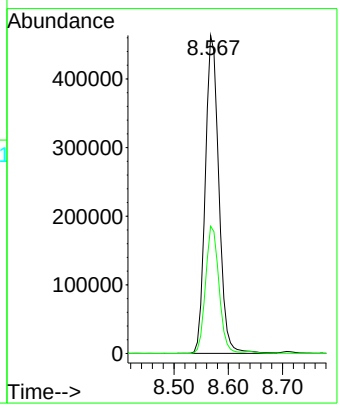





#51
4-Methyl-2-Pentanone
Concen: 264.229 ug/l
RT: 8.567 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 43 Resp: 805406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.7 | 31.9 | 47.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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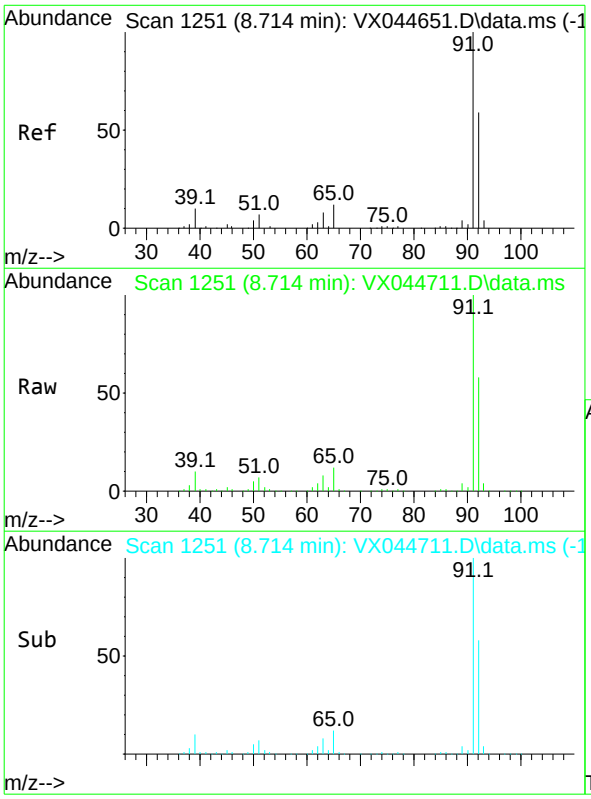
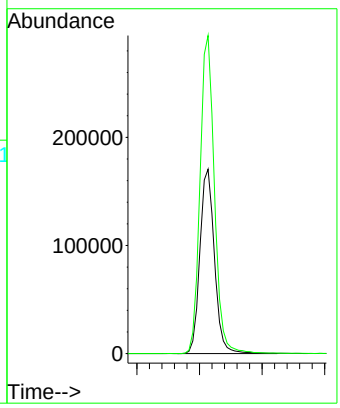
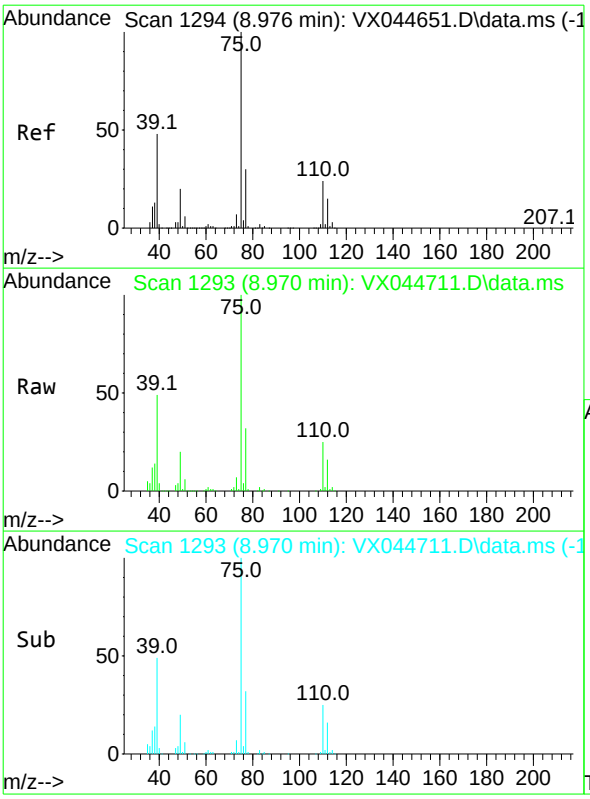



#52
Toluene
Concen: 51.531 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 92 Resp: 275176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.9 | 135.7 | 203.5 |

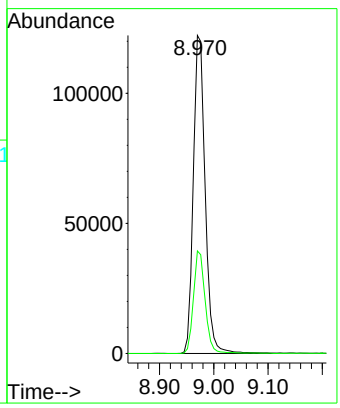





#53
t-1,3-Dichloropropene
Concen: 52.351 ug/l
RT: 8.970 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 75 Resp: 185440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 24.4 | 36.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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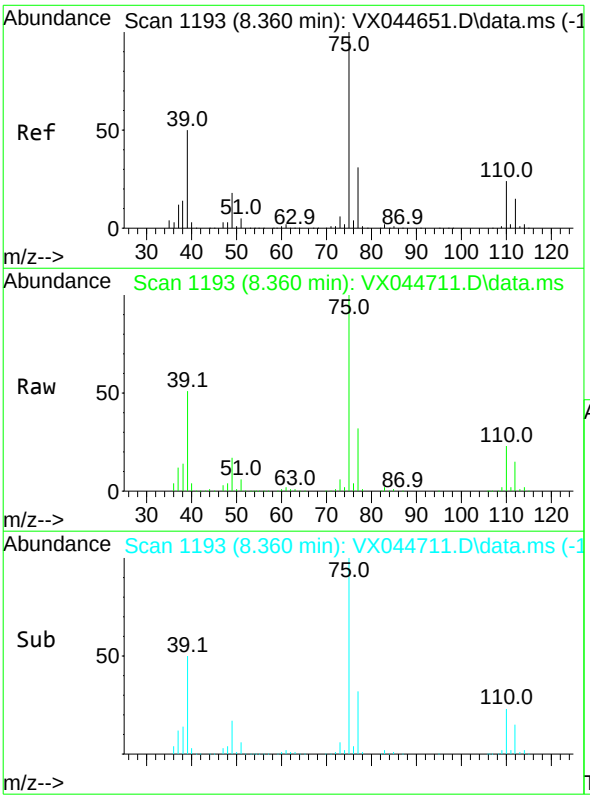
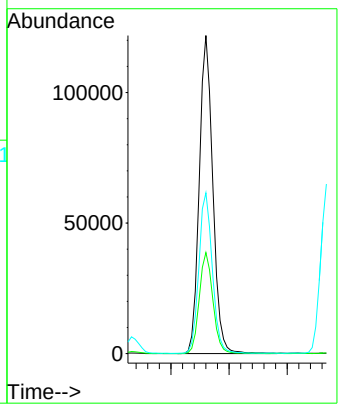
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

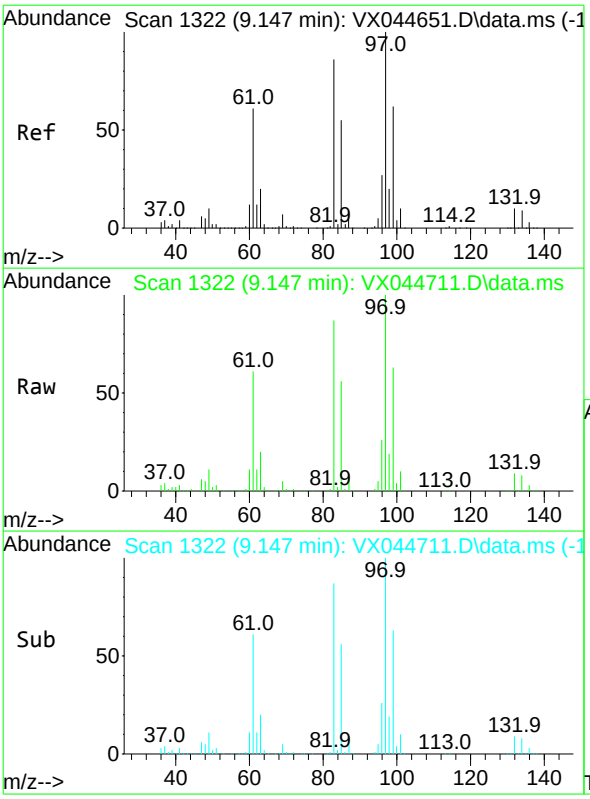



#54
cis-1,3-Dichloropropene
Concen: 51.254 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 75 Resp: 196861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.1 | 37.7 |
| 39 | 50.5 | 40.3 | 60.5 |

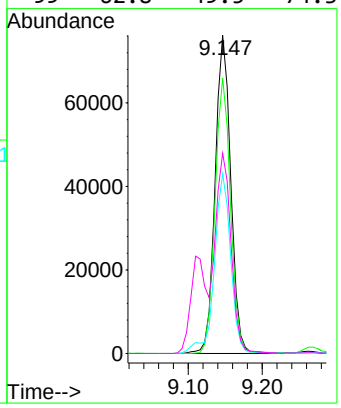





#55
1,1,2-Trichloroethane
Concen: 51.785 ug/l
RT: 9.147 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 97 Resp: 111881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.6 | 68.8 | 103.2 |
| 85 | 56.3 | 43.7 | 65.5 |
| 99 | 62.8 | 49.5 | 74.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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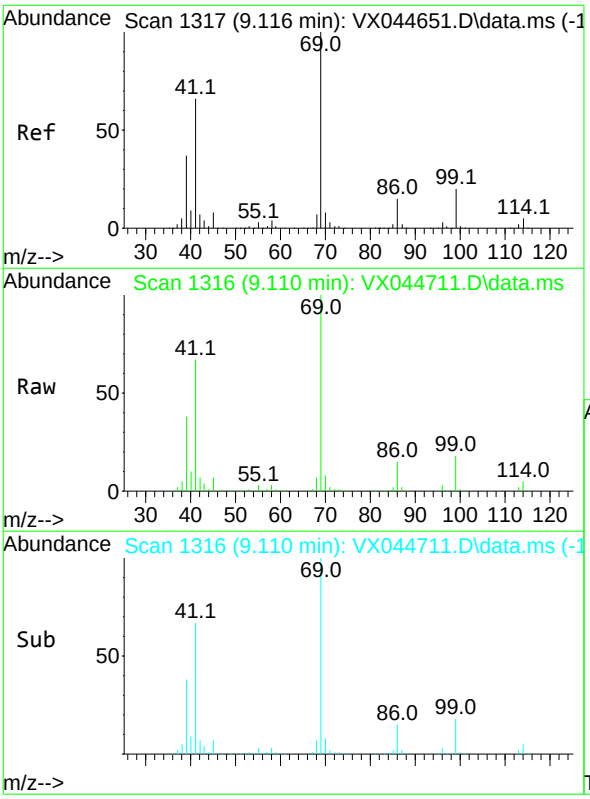
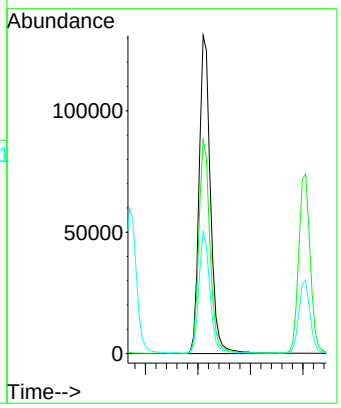
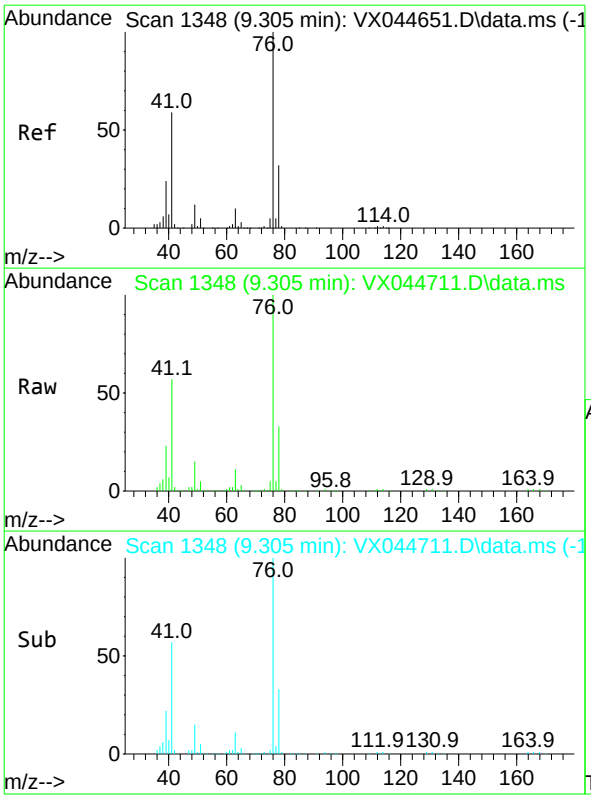



#56
Ethyl methacrylate
Concen: 52.829 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 69 Resp: 196250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.0 | 53.2 | 79.8 |
| 39 | 37.4 | 30.2 | 45.2 |






#57
1,3-Dichloropropane
Concen: 52.726 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 76 Resp: 193983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 26.0 | 39.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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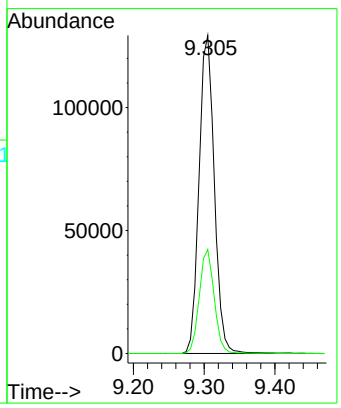
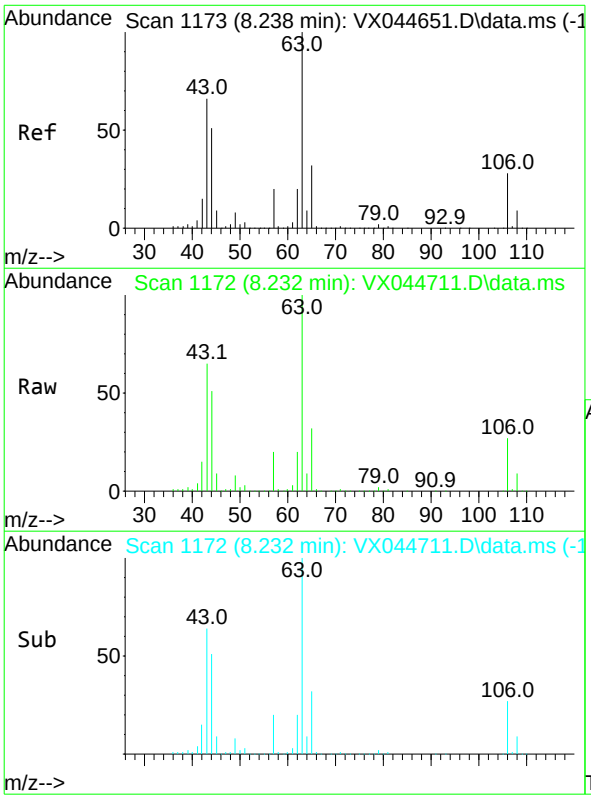
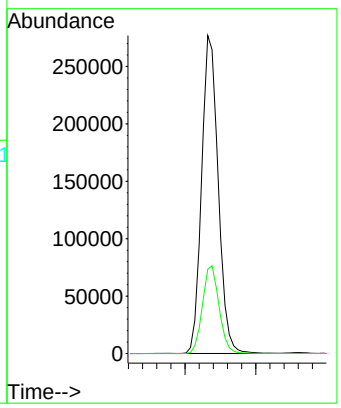


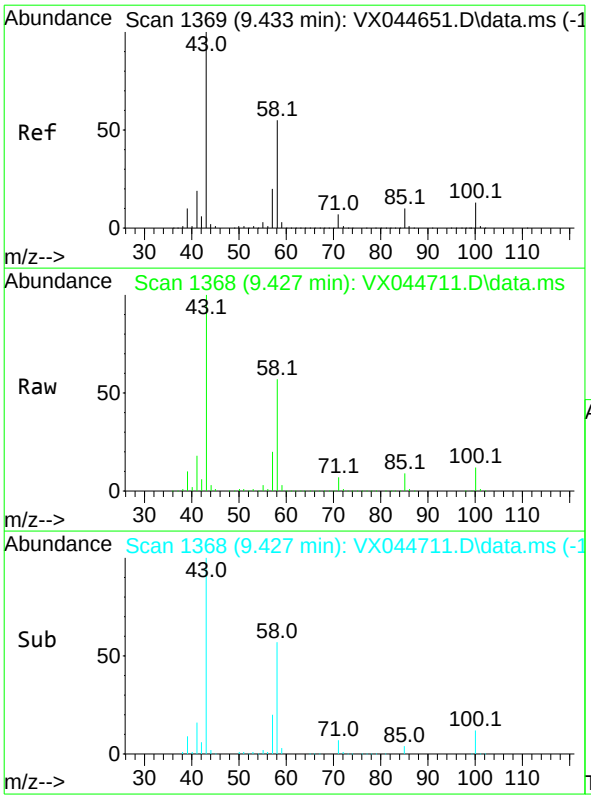




#58
2-Chloroethyl Vinyl ether
Concen: 247.155 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 63 Resp: 450749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.8 | 23.0 | 34.6 |






#59
2-Hexanone
Concen: 258.046 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 43 Resp: 578675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.5 | 27.8 | 83.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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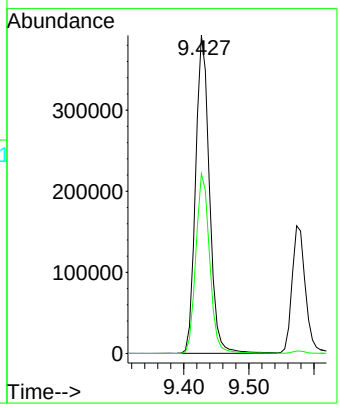
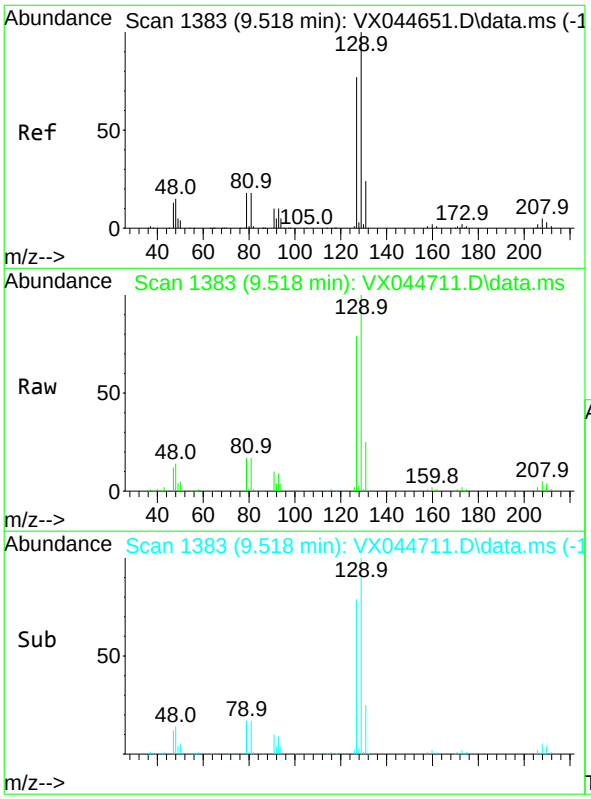
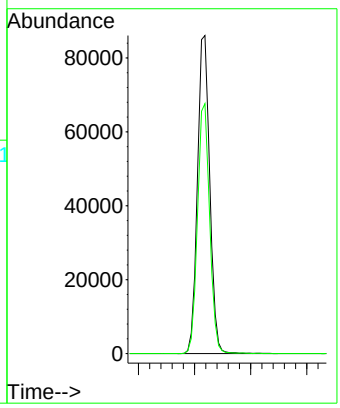


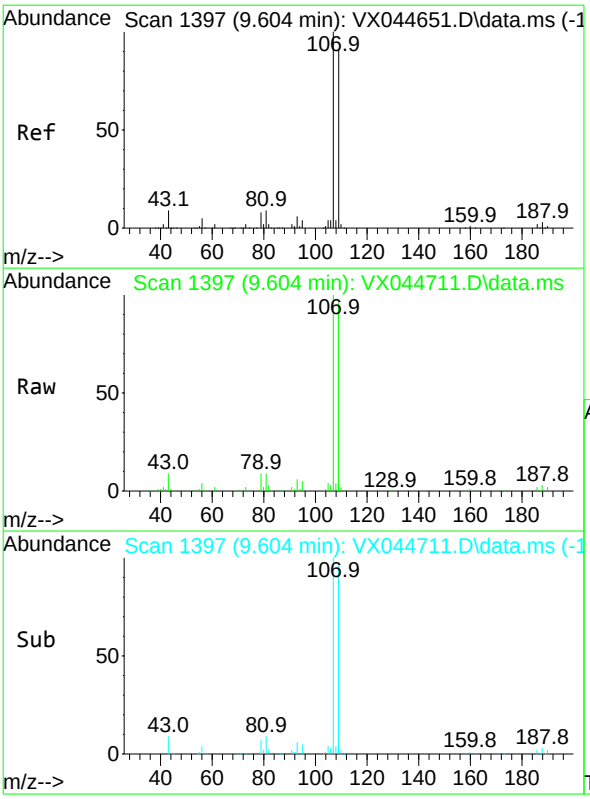




#60
Dibromochloromethane
Concen: 51.638 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:129 Resp: 130942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 51.277 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:107 Resp: 116099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.9 | 75.3 | 112.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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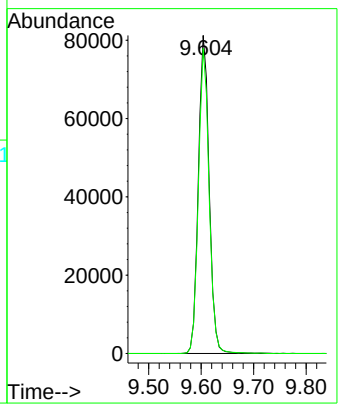
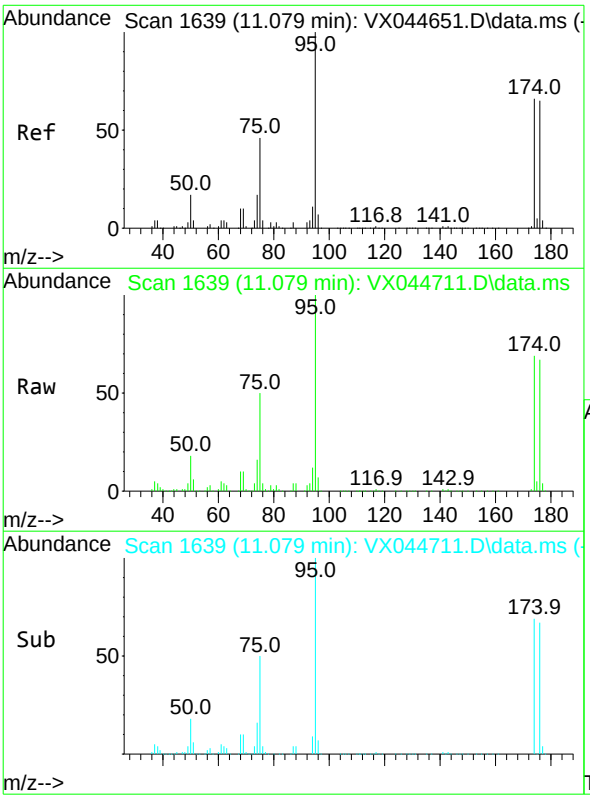
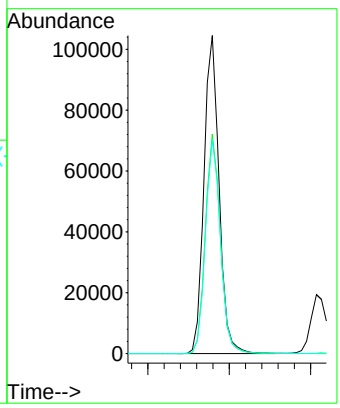


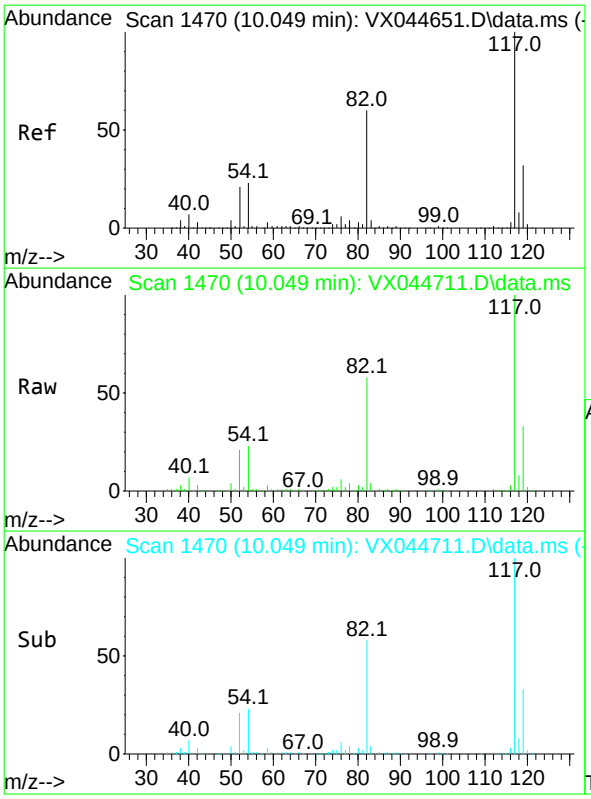




#62
4-Bromofluorobenzene
Concen: 51.142 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 95 Resp: 134456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 69.0 | 0.0 | 133.0 |
| 176 | 67.1 | 0.0 | 129.4 |

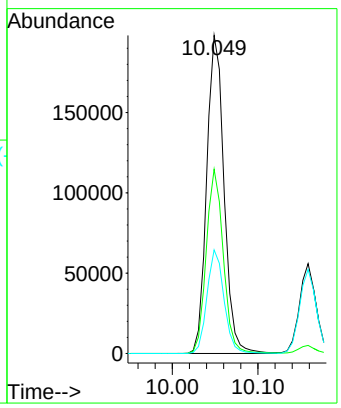





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:117 Resp: 277935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.9 | 47.6 | 71.4 |
| 119 | 32.6 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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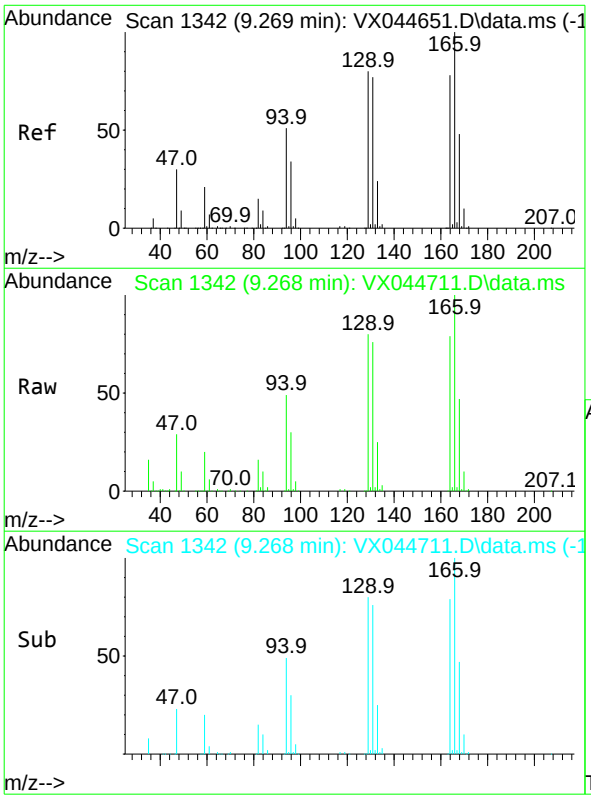
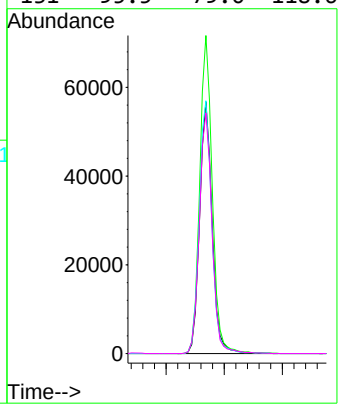
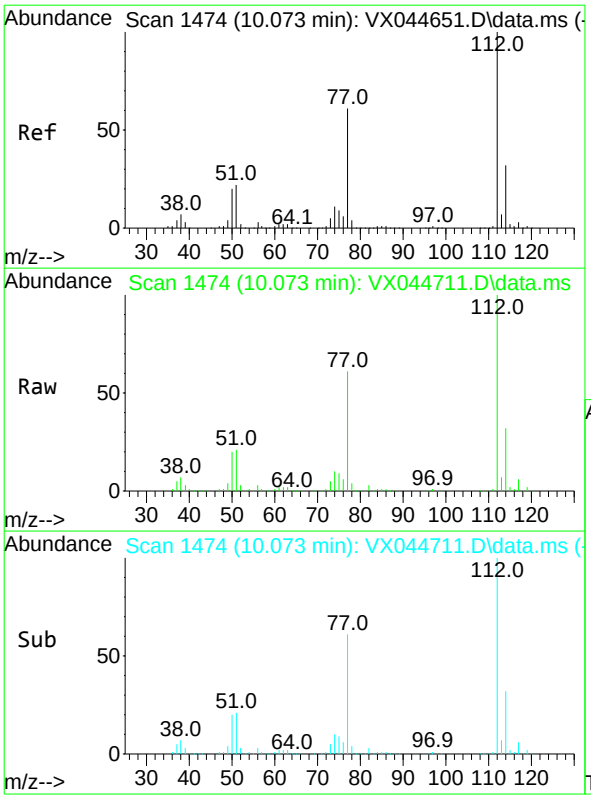



#64
Tetrachloroethene
Concen: 48.623 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:164 Resp: 84859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.3 | 102.0 | 153.0 |
| 129 | 100.4 | 81.1 | 121.7 |
| 131 | 95.5 | 79.0 | 118.6 |

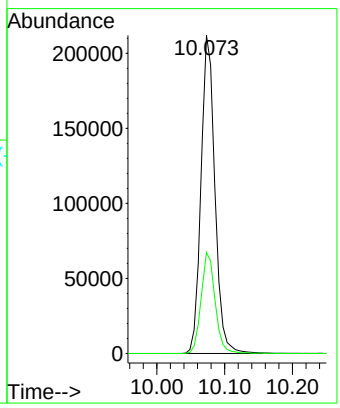





#65
Chlorobenzene
Concen: 51.069 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:112 Resp: 301484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 25.3 | 37.9 |




**Instrument :**
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VSTDCCC050

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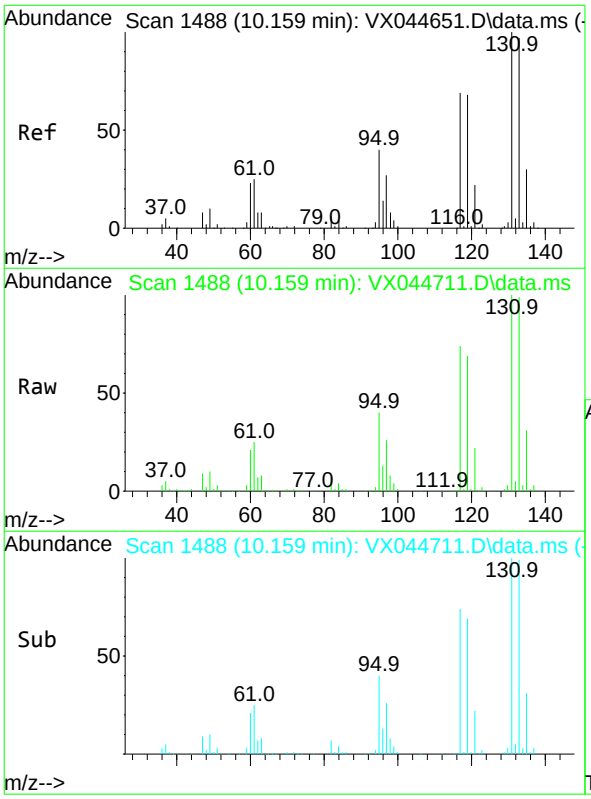
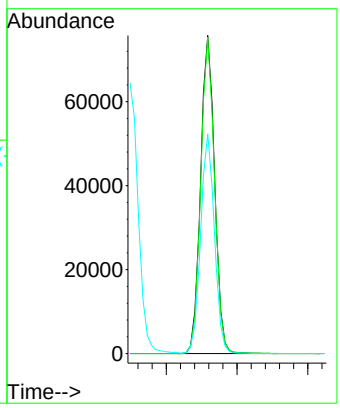
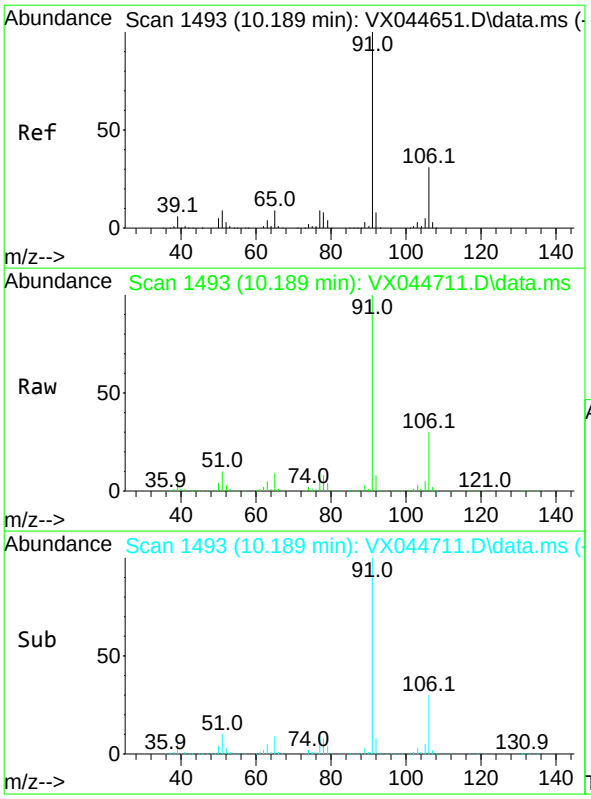



#66
1,1,1,2-Tetrachloroethane
Concen: 48.599 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:131 Resp: 104268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.3 | 47.8 | 143.3 |
| 119 | 68.2 | 33.4 | 100.2 |






#67
Ethyl Benzene
Concen: 50.576 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 91 Resp: 520975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.0 | 25.0 | 37.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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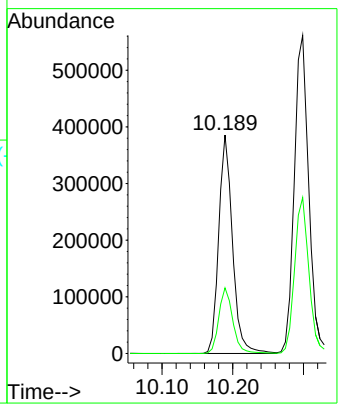
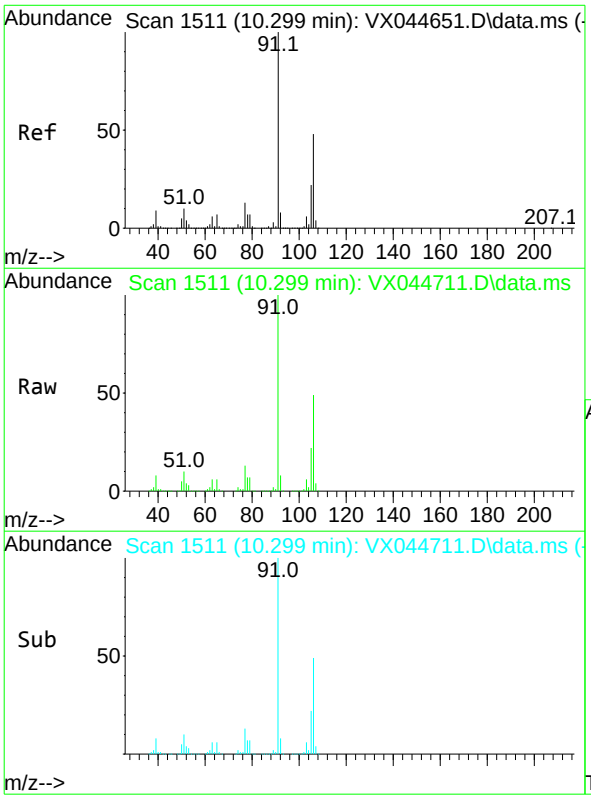
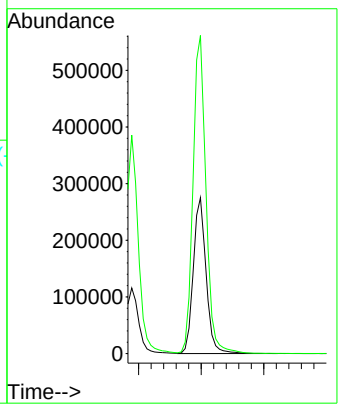


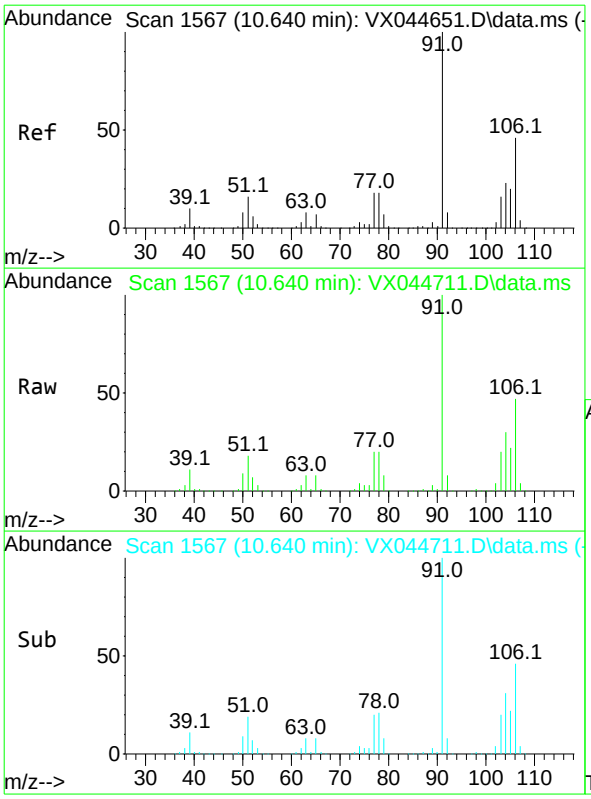




#68
m/p-Xylenes
Concen: 102.049 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:106 Resp: 390083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.2 | 166.4 | 249.6 |

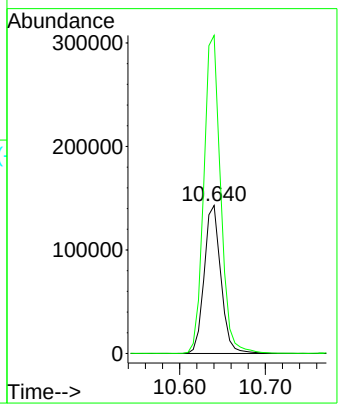





#69
o-Xylene
Concen: 49.989 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:106 Resp: 193241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.6 | 108.7 | 326.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
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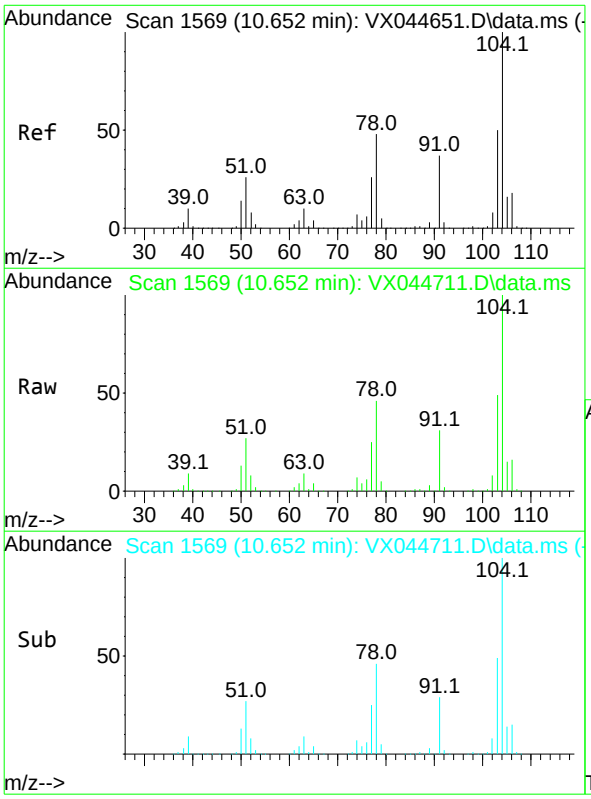
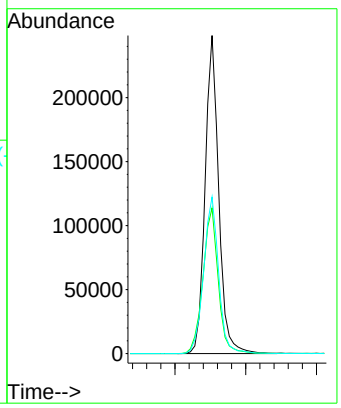
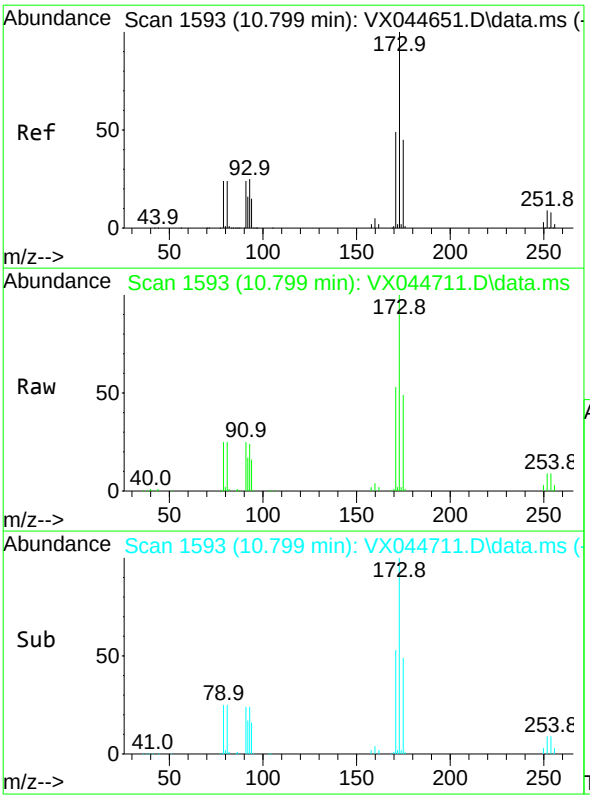



#70
Styrene
Concen: 53.068 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:104 Resp: 331210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.5 | 43.0 | 64.6 |
| 103 | 54.3 | 43.4 | 65.2 |






#71
Bromoform
Concen: 49.769 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

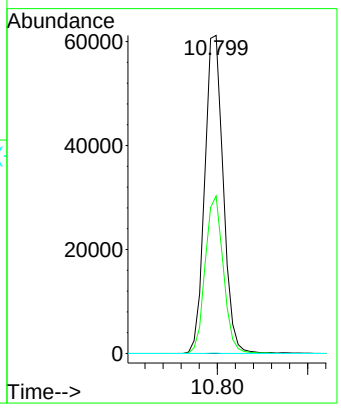
Tgt Ion:173 Resp: 86906

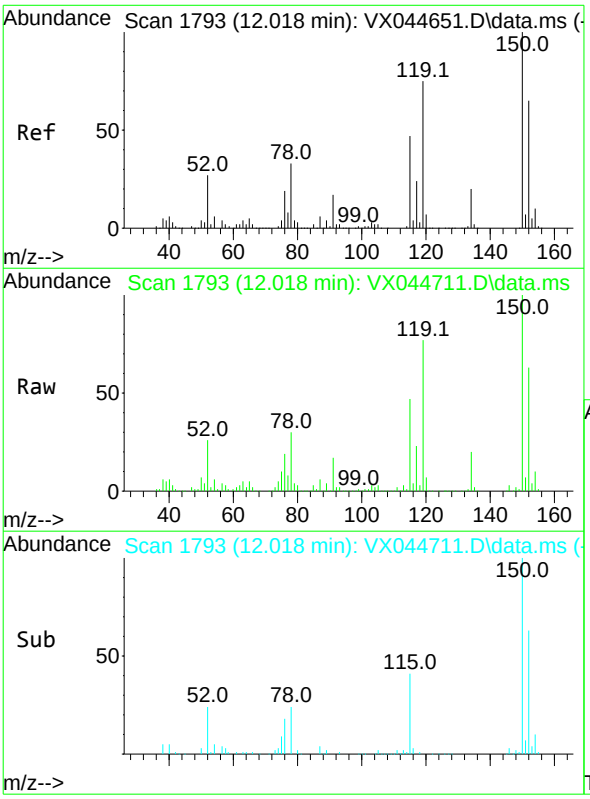
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1# |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

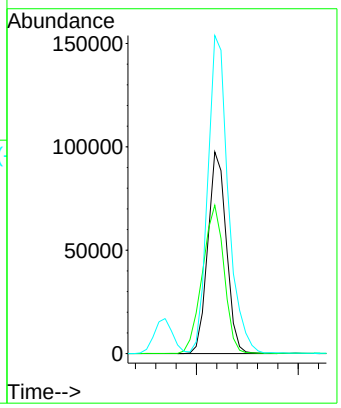


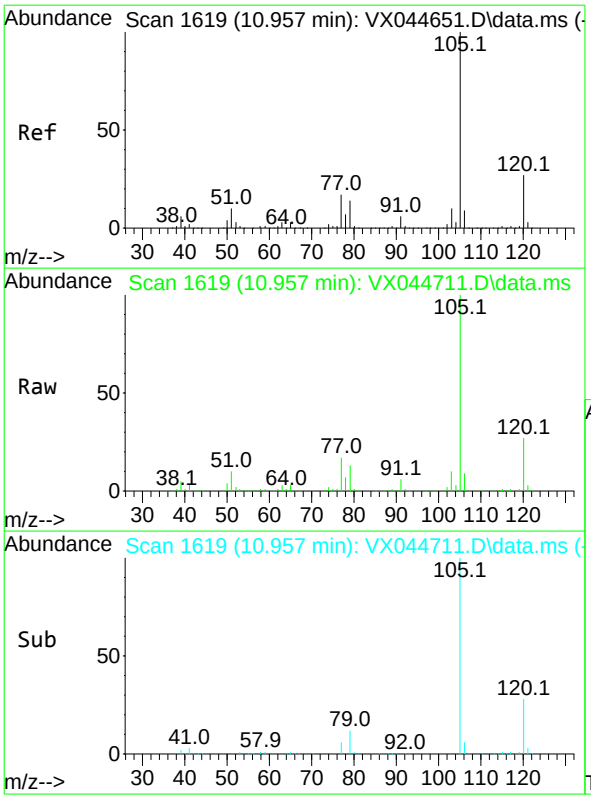




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:152 Resp: 123095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 86.6 | 43.8 | 131.4 |
| 150 | 175.6 | 0.0 | 347.8 |






#73
Isopropylbenzene
Concen: 47.772 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

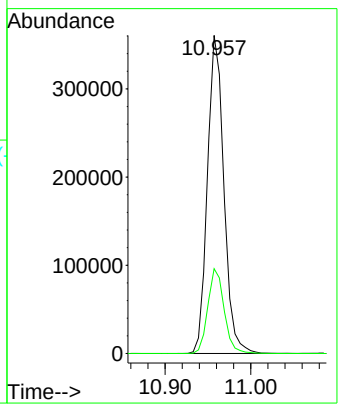
**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

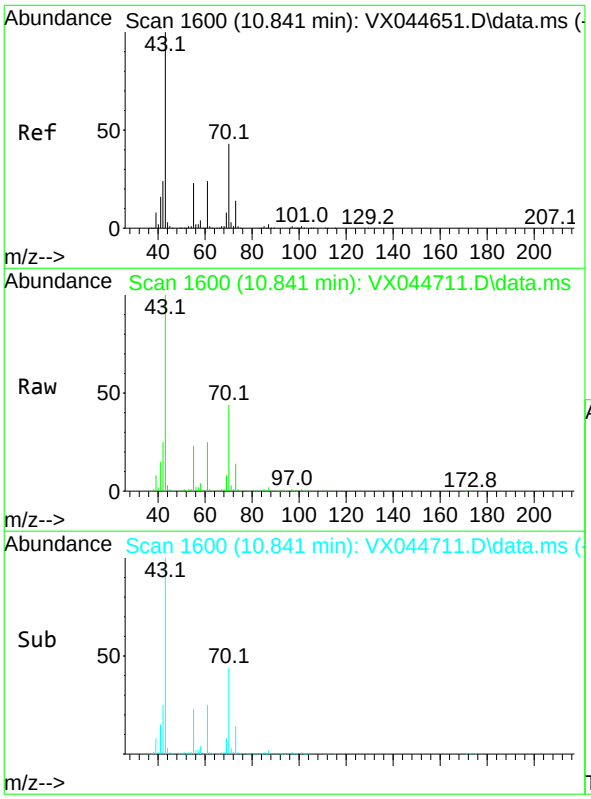
Tgt Ion:105 Resp: 480397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.2 | 39.6 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

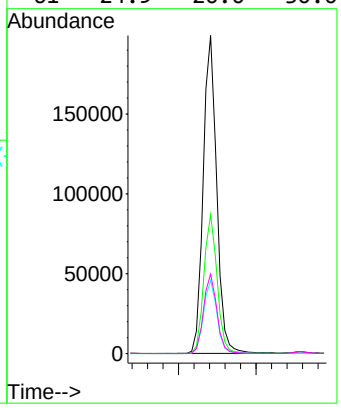


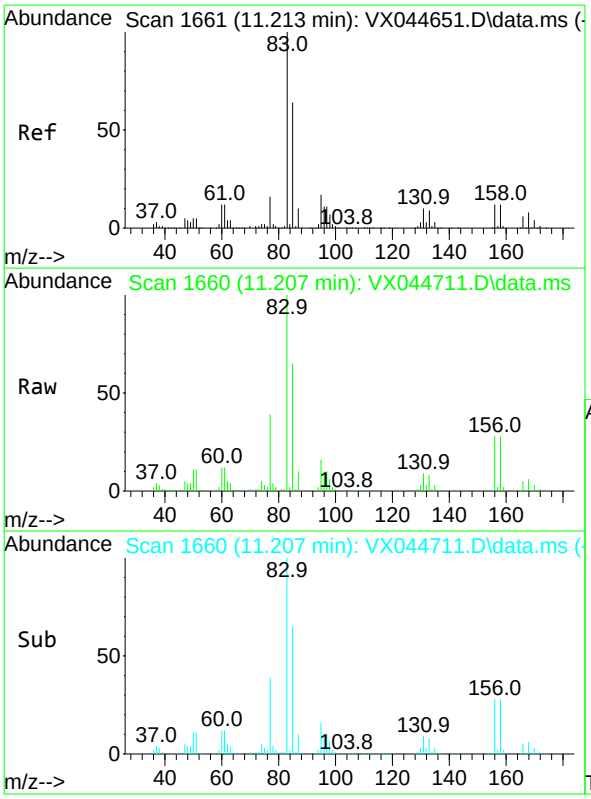




#74
N-amyl acetate
Concen: 48.507 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 43 Resp: 240430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.2 | 35.2 | 52.8 |
| 55 | 23.0 | 19.0 | 28.4 |
| 61 | 24.9 | 20.0 | 30.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 48.822 ug/l
RT: 11.207 min Scan# 16
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

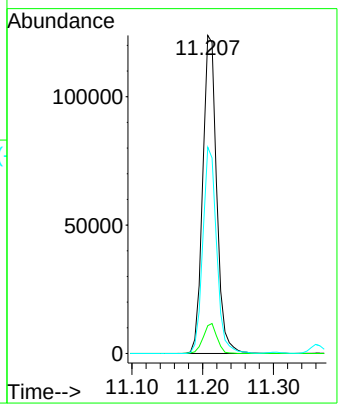
Tgt Ion: 83 Resp: 169562

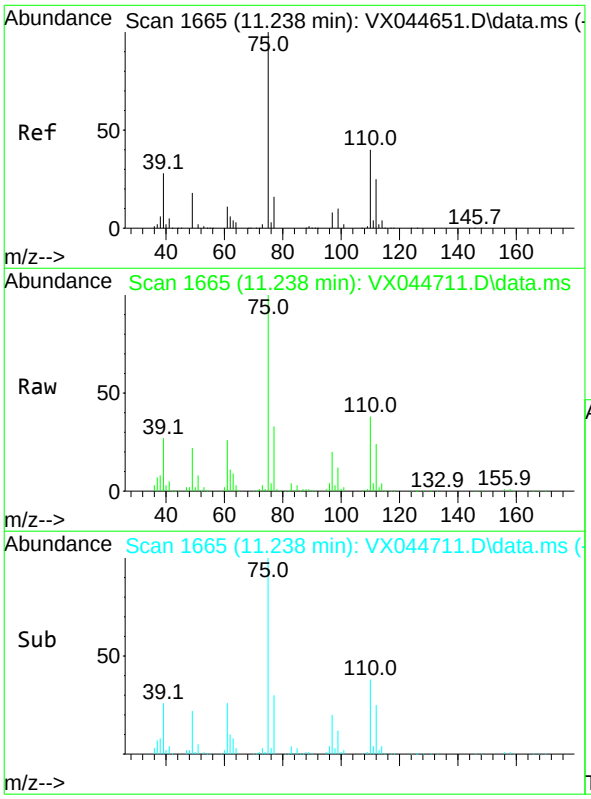
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.3 | 5.0 | 14.9 |
| 85 | 64.2 | 32.0 | 96.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

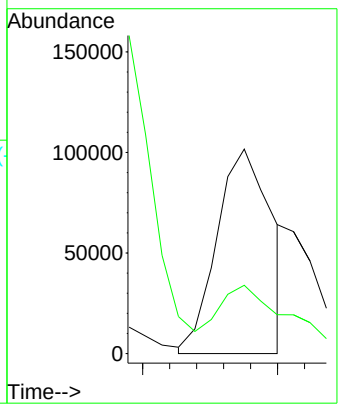


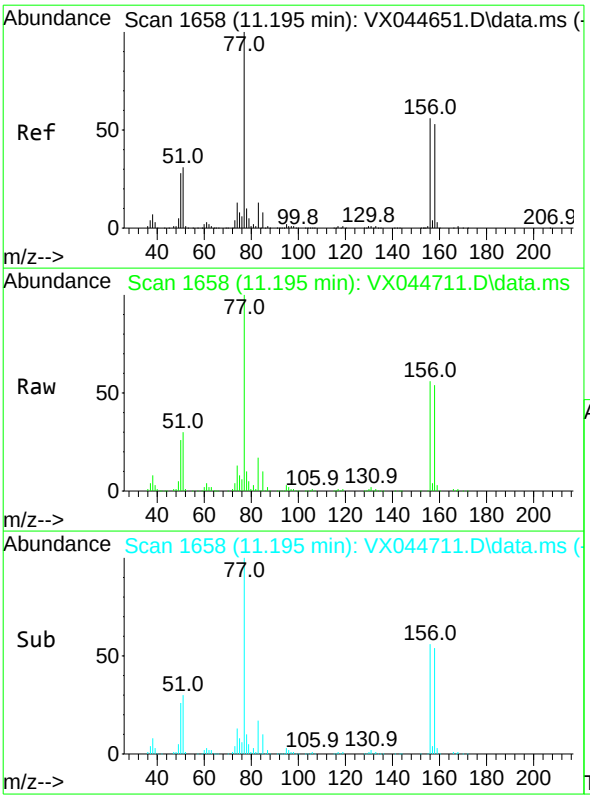




#76
1,2,3-Trichloropropane
Concen: 47.797 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 75 Resp: 142785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 43.7 | 23.4 | 70.2 |






#77
Bromobenzene
Concen: 49.729 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

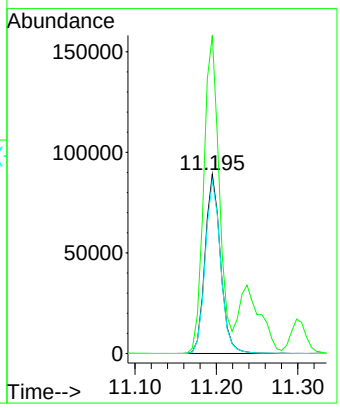
**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

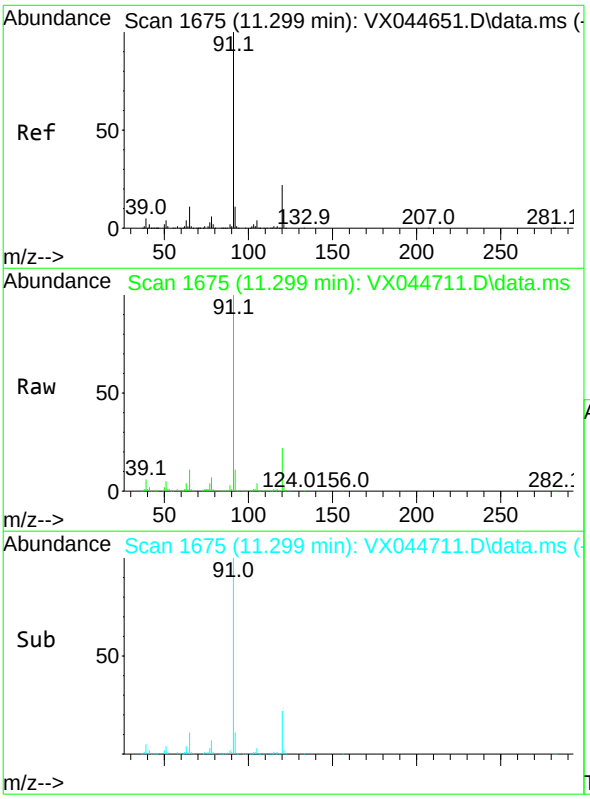
Tgt Ion:156 Resp: 116886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 178.6 | 90.3 | 271.0 |
| 158 | 96.7 | 48.4 | 145.3 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

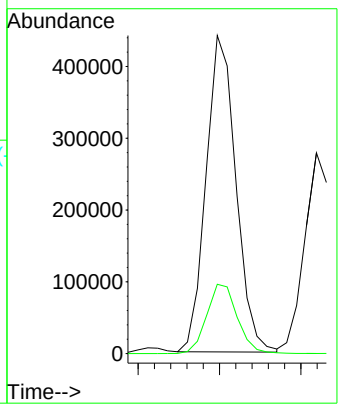


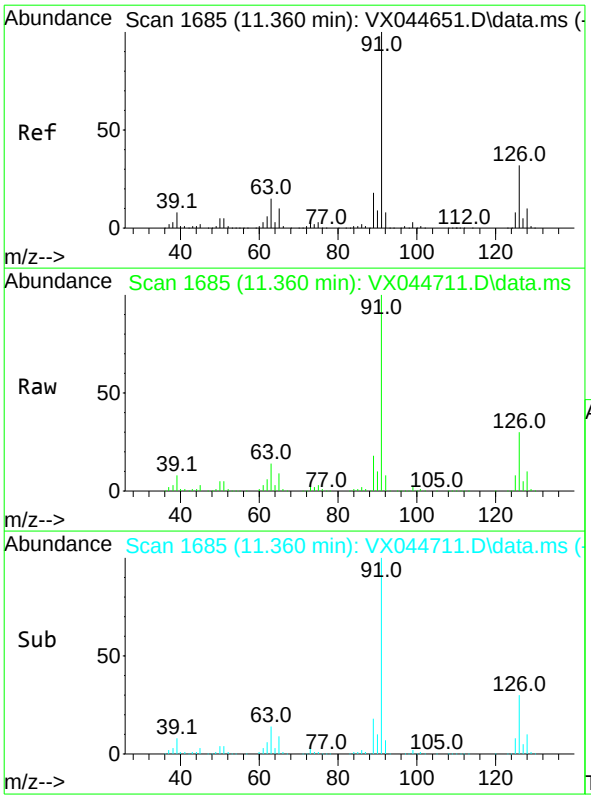




#78
n-propylbenzene
Concen: 50.743 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 91 Resp: 562742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.4 | 34.1 |






#79
2-Chlorotoluene
Concen: 48.661 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

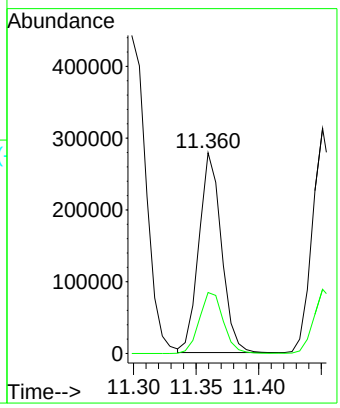
Tgt Ion: 91 Resp: 348599

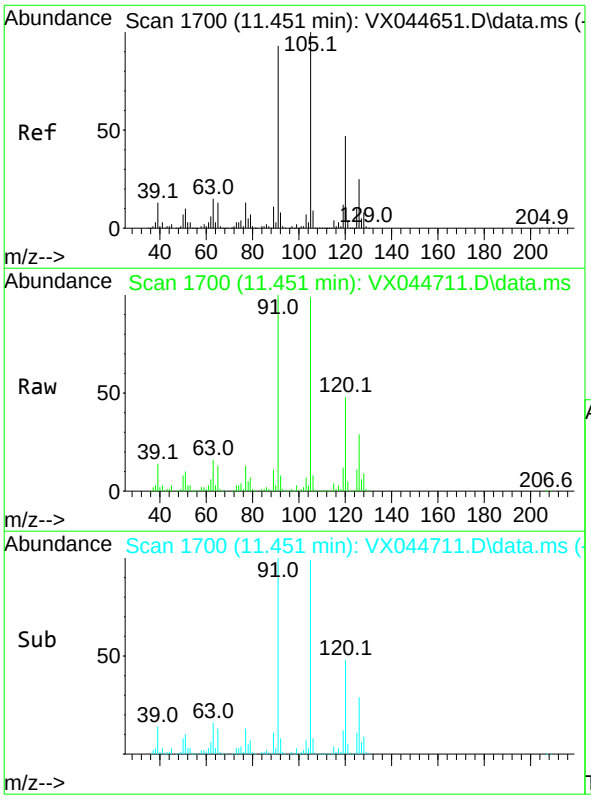
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.6 | 16.2 | 48.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

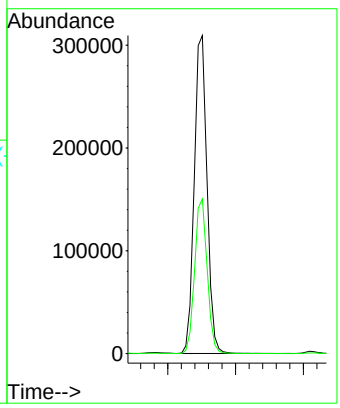


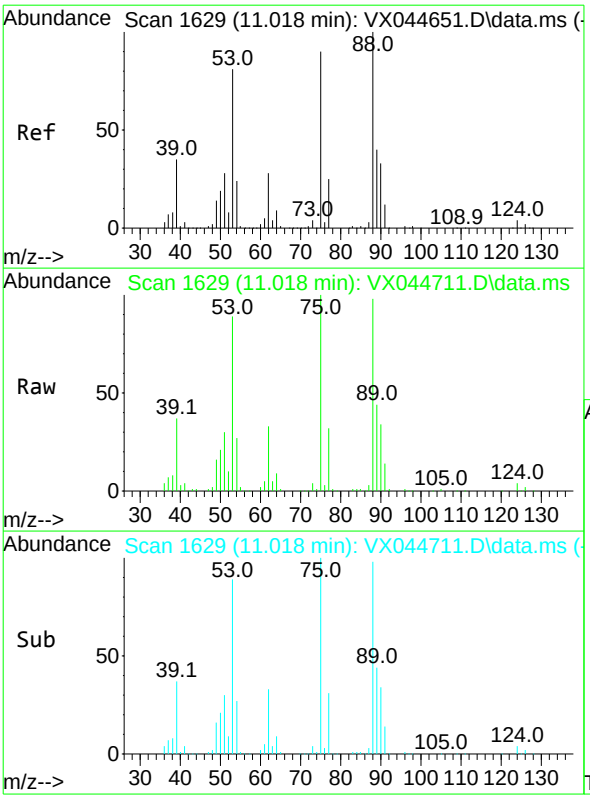




#80
1,3,5-Trimethylbenzene
Concen: 49.198 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:105 Resp: 402748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.0 | 23.7 | 71.1 |






#81
trans-1,4-Dichloro-2-butene
Concen: 49.439 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

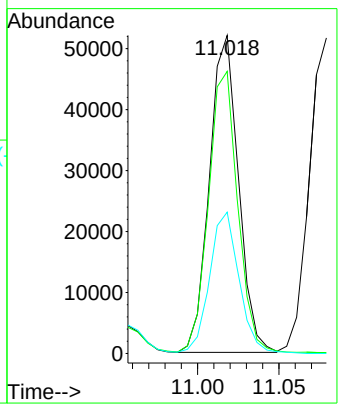
**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

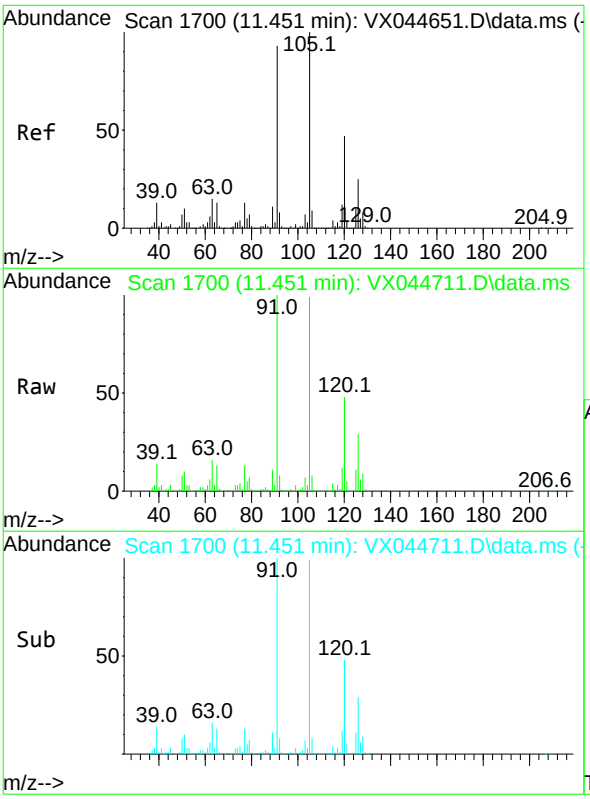
Tgt Ion: 75 Resp: 64582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 90.9 | 74.3 | 111.5 |
| 89 | 45.4 | 37.4 | 56.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

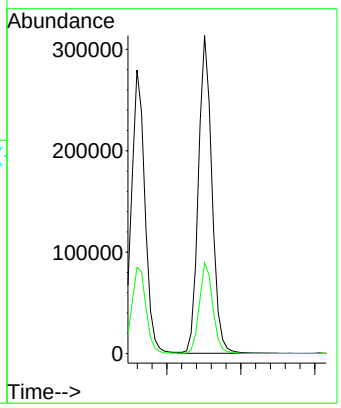


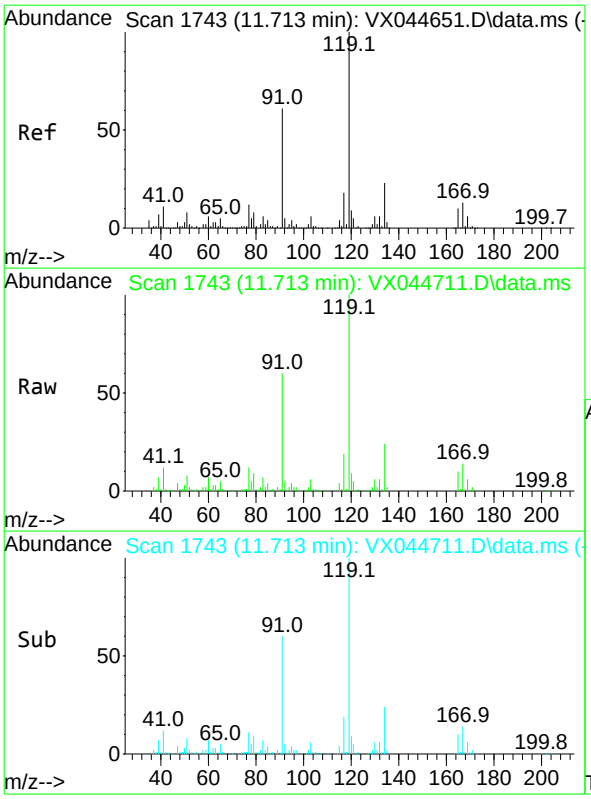




#82
4-Chlorotoluene
Concen: 50.588 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 91 Resp: 396992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.5 | 13.9 | 41.7 |






#83
tert-Butylbenzene
Concen: 46.992 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:119 Resp: 402232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 57.8 | 30.0 | 90.0 |
| 134 | 22.8 | 11.2 | 33.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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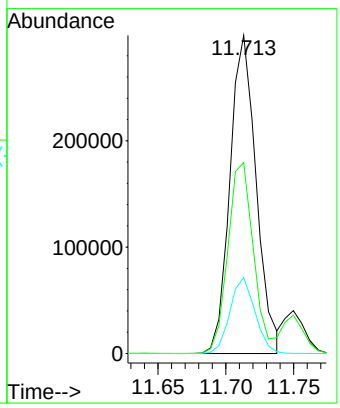
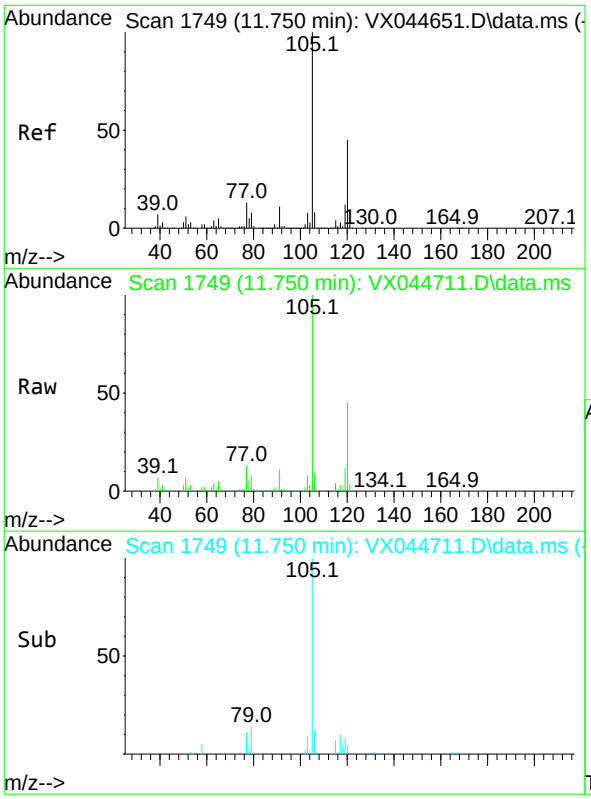
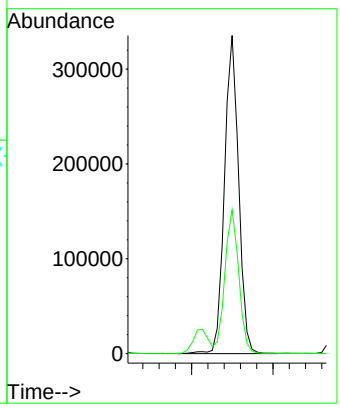


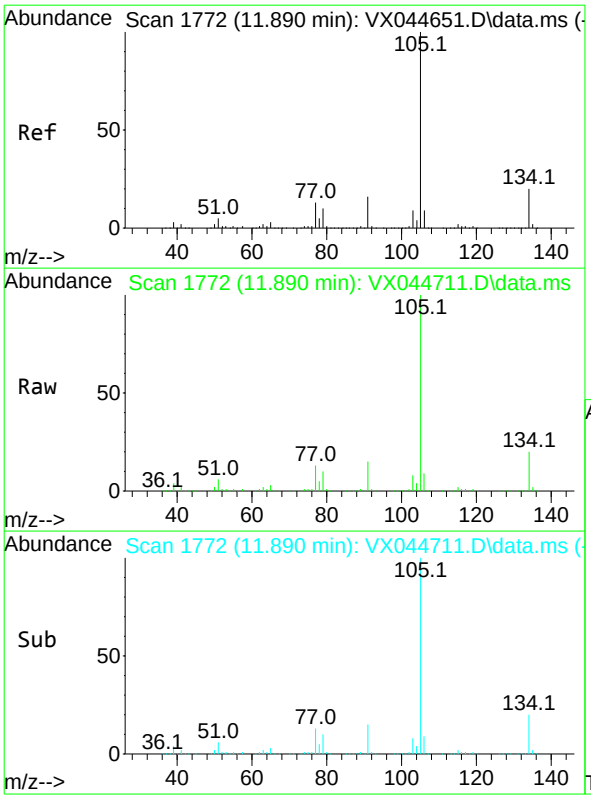




#84
1,2,4-Trimethylbenzene
Concen: 48.633 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:105 Resp: 404571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.8 | 22.2 | 66.6 |






#85
sec-Butylbenzene
Concen: 49.309 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

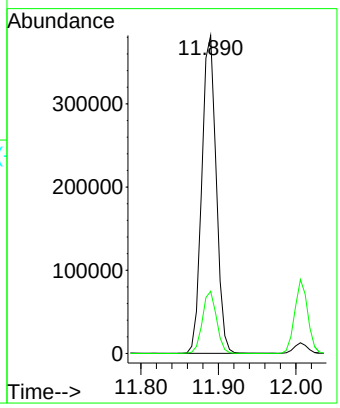
Tgt Ion:105 Resp: 491434

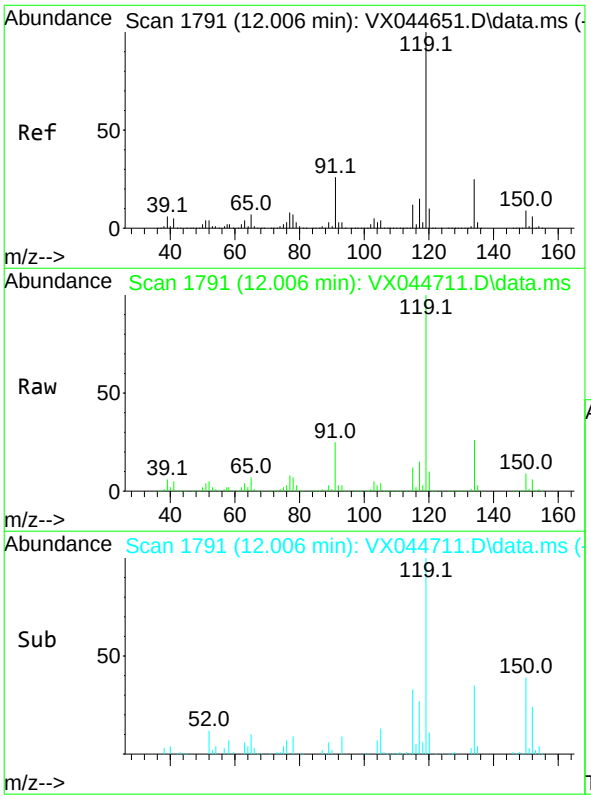
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.8 | 29.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

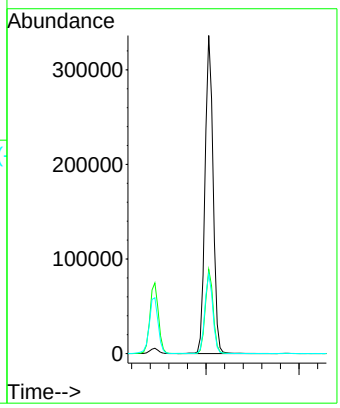


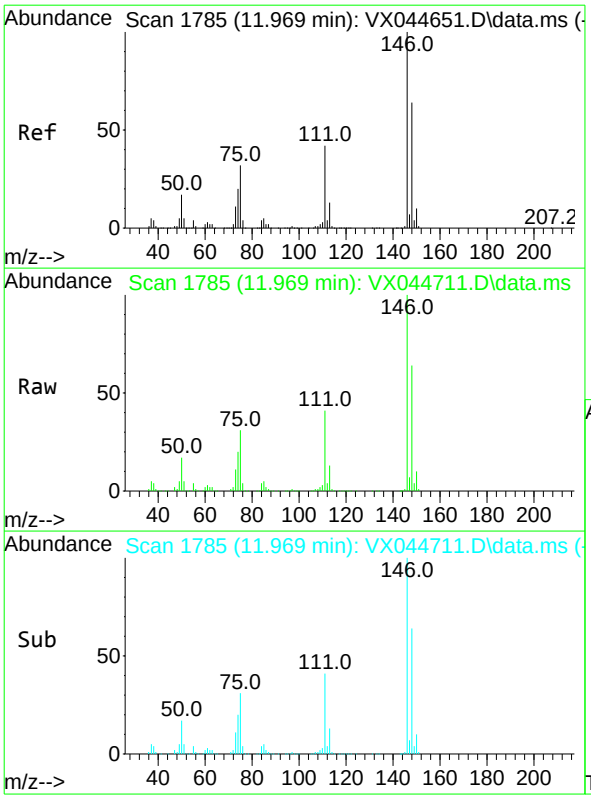




#86
p-Isopropyltoluene
Concen: 49.439 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:119 Resp: 404929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.8 | 38.4 |
| 91 | 24.7 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 52.016 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

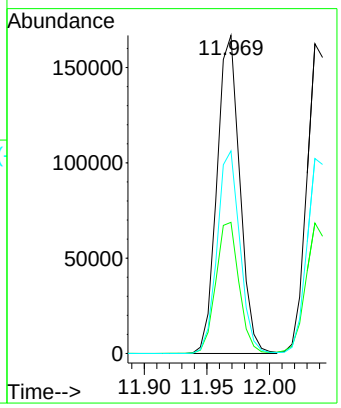
**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

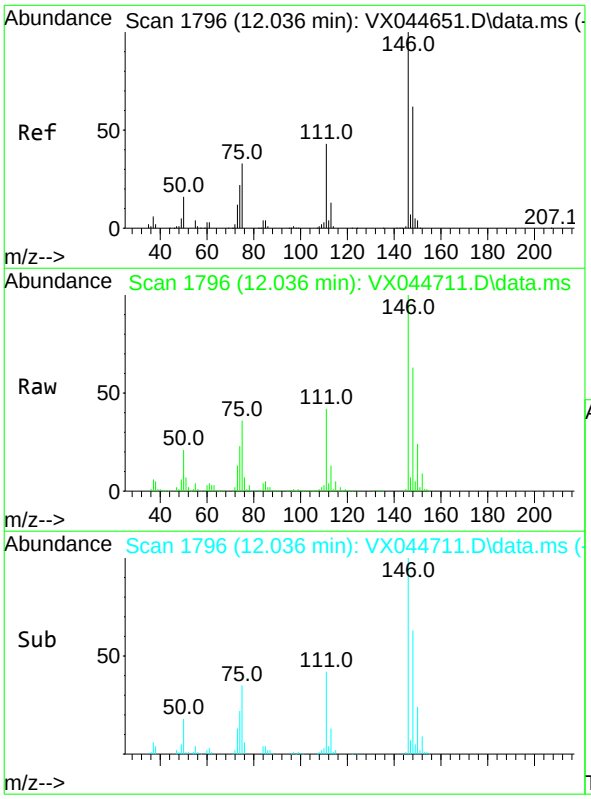
Tgt Ion:146 Resp: 212027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.0 | 21.9 | 65.7 |
| 148 | 63.3 | 31.8 | 95.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

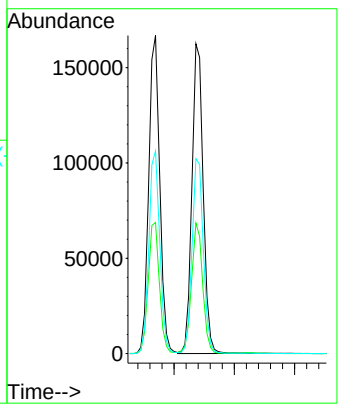


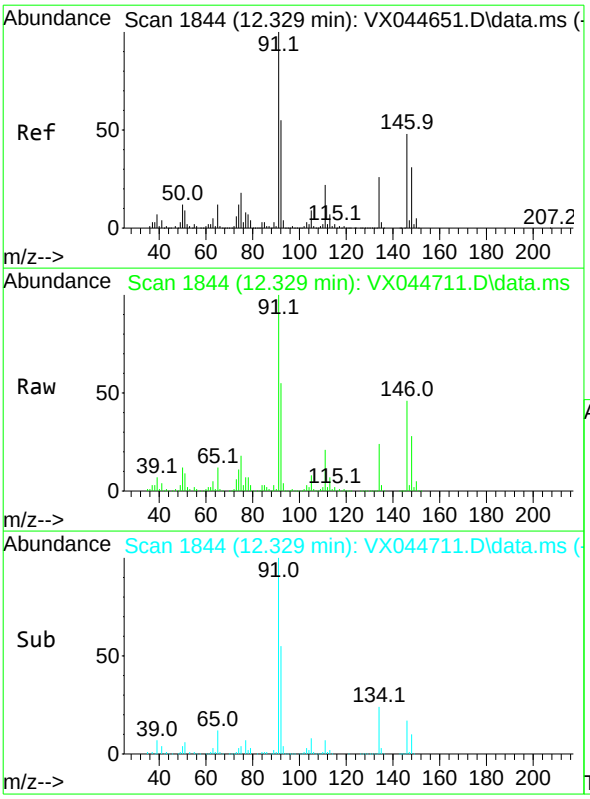




#88
1,4-Dichlorobenzene
Concen: 51.247 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:146 Resp: 211171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.6 | 21.5 | 64.5 |
| 148 | 63.1 | 32.1 | 96.5 |

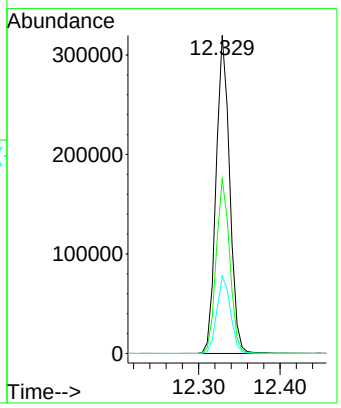





#89
n-Butylbenzene
Concen: 52.602 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 91 Resp: 370043

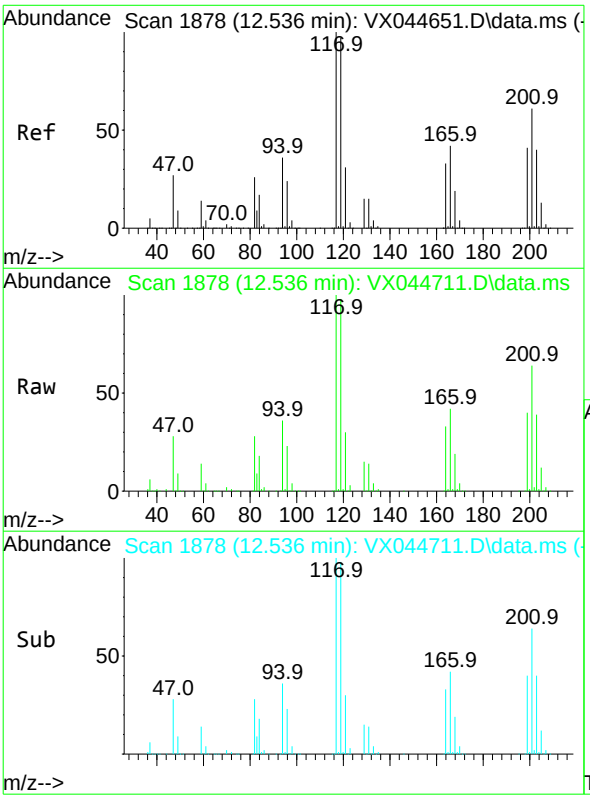
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.7 | 27.4 | 82.0 |
| 134 | 24.6 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

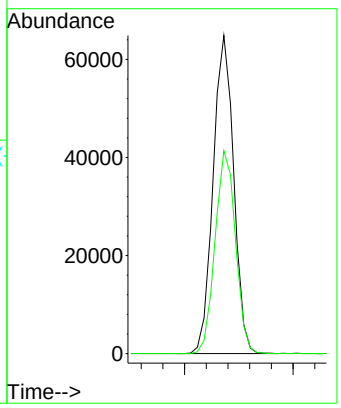
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

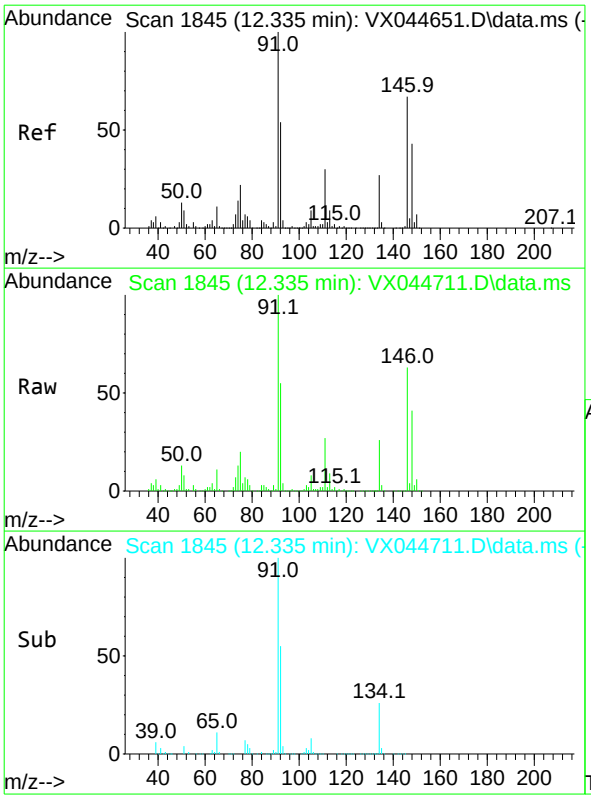



#90
Hexachloroethane
Concen: 45.956 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:117 Resp: 85234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.5 | 32.3 | 96.8 |






#91
1,2-Dichlorobenzene
Concen: 48.972 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

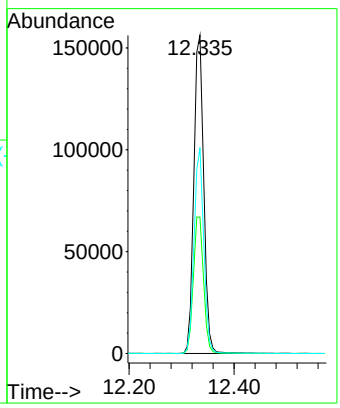
Tgt Ion:146 Resp: 205003

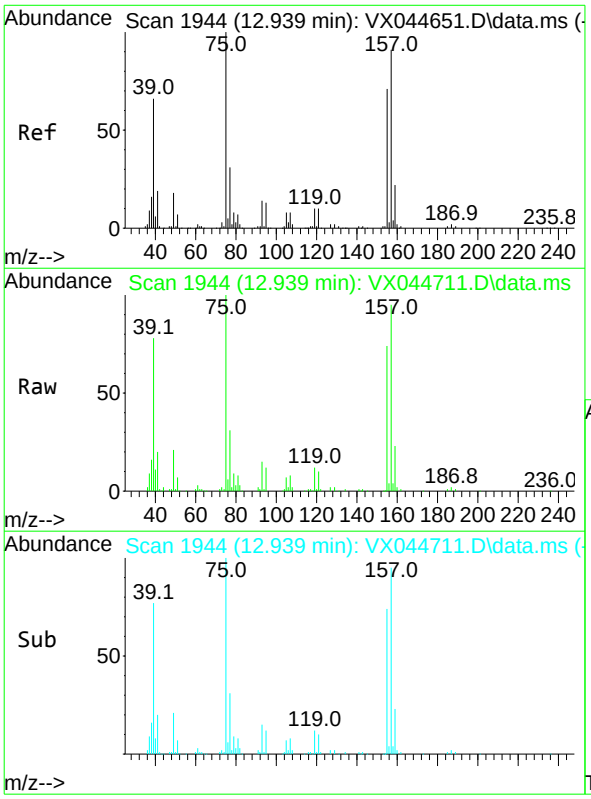
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.1 | 22.4 | 67.2 |
| 148 | 63.4 | 31.6 | 94.8 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

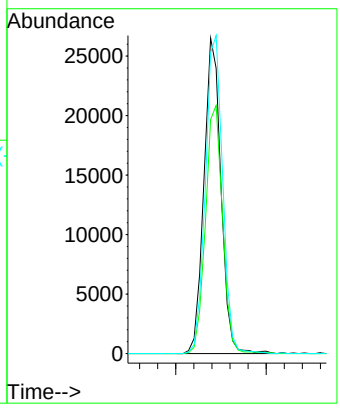


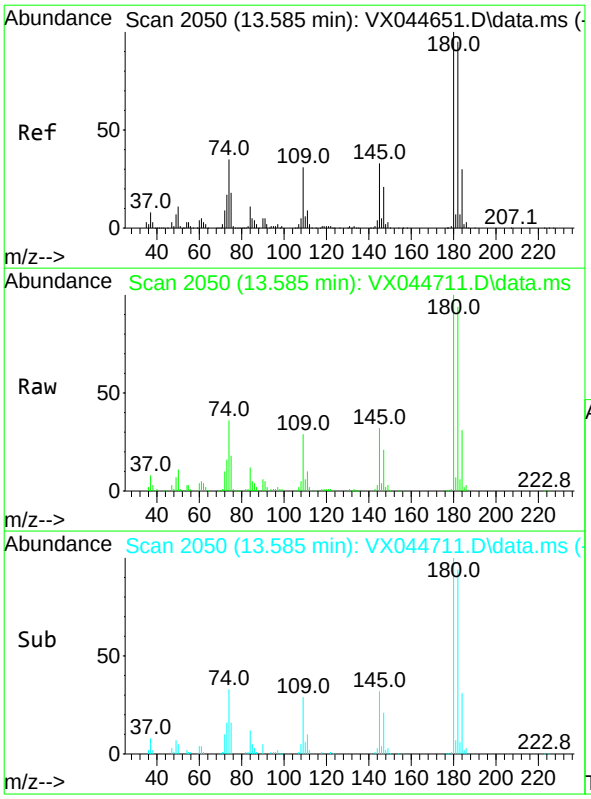




#92
1,2-Dibromo-3-Chloropropane
Concen: 40.823 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 75 Resp: 34674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 79.1 | 39.0 | 116.9 |
| 157 | 101.9 | 49.9 | 149.7 |






#93
1,2,4-Trichlorobenzene
Concen: 52.765 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

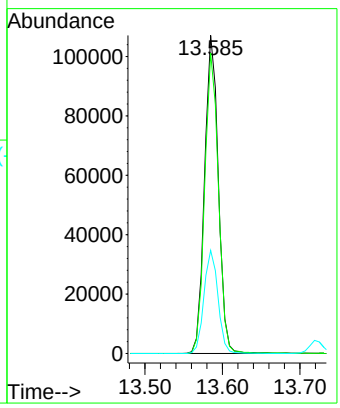
**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

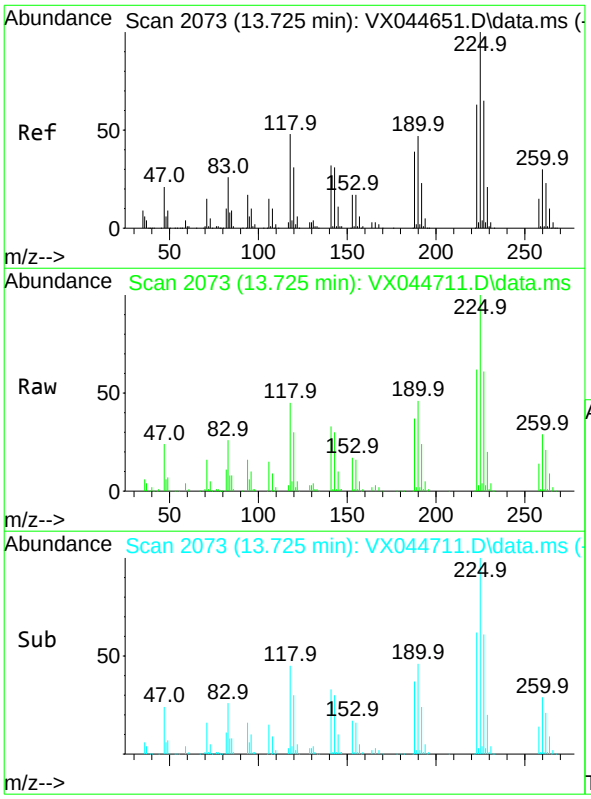
Tgt Ion:180 Resp: 132044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 47.4 | 142.2 |
| 145 | 33.0 | 16.7 | 50.1 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

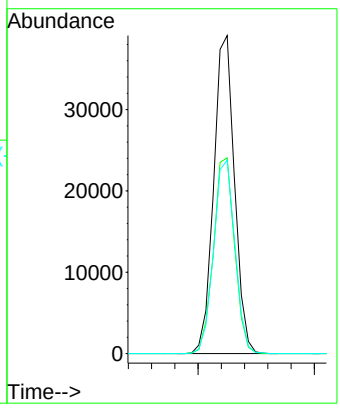


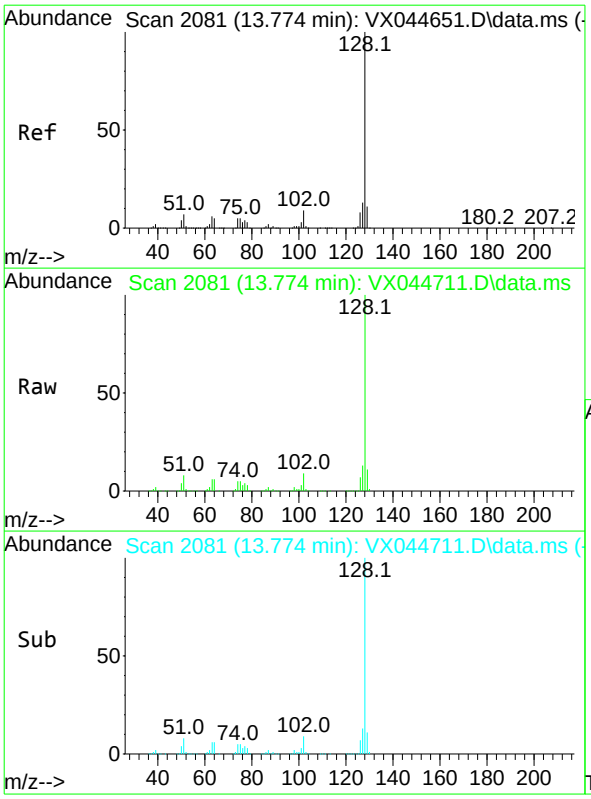




#94
Hexachlorobutadiene
Concen: 49.450 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:225 Resp: 48609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.5 | 31.9 | 95.7 |
| 227 | 62.1 | 31.8 | 95.4 |

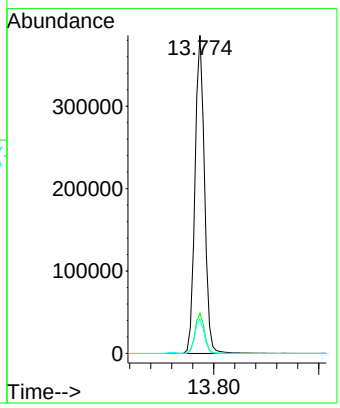





#95
Naphthalene
Concen: 50.197 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:128 Resp: 484495

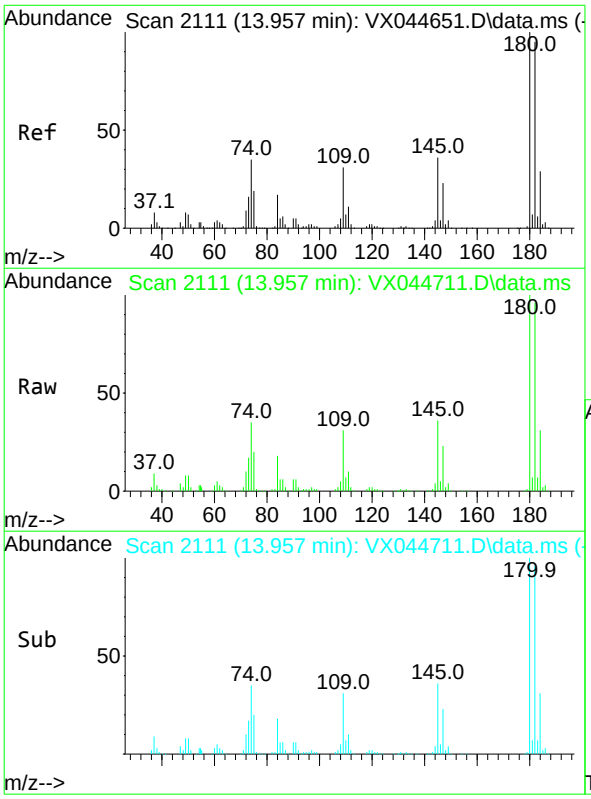
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.3 | 15.5 |
| 129 | 10.8 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

**Manual Integrations**
**APPROVED**

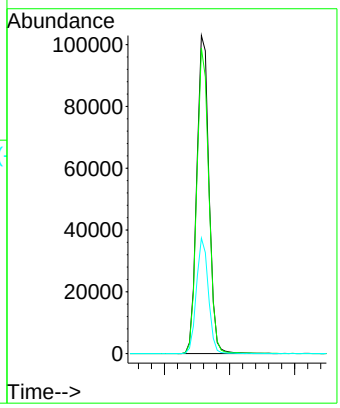
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025




#96
1,2,3-Trichlorobenzene
Concen: 51.628 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:180 Resp: 133922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.2 | 141.6 |
| 145 | 35.4 | 17.5 | 52.6 |



Sample Results: **VX044711.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 90 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.673 | 0.648 | 3.7 | 86 | 0.00 |
| 3 | P | Chloromethane | 0.728 | 0.776 | -6.6 | 99 | 0.00 |
| 4 | C | Vinyl Chloride | 0.719 | 0.750 | -4.3# | 96 | 0.00 |
| 5 | T | Bromomethane | 0.172 | 0.181 | -5.2 | 96 | 0.00 |
| 6 | T | Chloroethane | 0.132 | 0.178 | -34.8# | 137 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.795 | 0.780 | 1.9 | 92 | 0.00 |
| 8 | T | Diethyl Ether | 0.321 | 0.273 | 15.0 | 84 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.597 | 0.612 | -2.5 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 0.815 | 0.817 | -0.2 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.168 | 0.154 | 8.3 | 92 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 0.585 | 0.612 | -4.6# | 98 | 0.00 |
| 13 | T | Acrolein | 0.079 | 0.172 | -117.7# | 230# | 0.00 |
| 14 | T | Allyl chloride | 1.140 | 1.161 | -1.8 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 0.330 | 0.353 | -7.0 | 102 | 0.00 |
| 16 | T | Acetone | 0.299 | 0.288 | 3.7 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 1.597 | 1.689 | -5.8 | 99 | 0.00 |
| 18 | T | Methyl Acetate | 0.921 | 0.984 | -6.8 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.121 | 2.198 | -3.6 | 98 | 0.00 |
| 20 | T | Methylene Chloride | 0.695 | 0.734 | -5.6 | 102 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.611 | 0.618 | -1.1 | 98 | 0.00 |
| 22 | T | Diisopropyl ether | 1.981 | 2.219 | -12.0 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 1.734 | 1.892 | -9.1 | 103 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.175 | 1.237 | -5.3 | 99 | 0.00 |
| 25 | T | 2-Butanone | 0.444 | 0.470 | -5.9 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.139 | 1.056 | 7.3 | 90 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.769 | 0.785 | -2.1 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 0.549 | 0.566 | -3.1 | 96 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.286 | 0.302 | -5.6 | 102 | 0.00 |
| 30 | C | Chloroform | 1.186 | 1.204 | -1.5# | 95 | 0.00 |
| 31 | T | Cyclohexane | 0.950 | 1.026 | -8.0 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.090 | 0.992 | 9.0 | 90 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.755 | 0.714 | 5.4 | 87 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 91 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.318 | 0.317 | 0.3 | 90 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.442 | 0.433 | 2.0 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 0.471 | 0.505 | -7.2 | 99 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.497 | 0.453 | 8.9 | 89 | 0.00 |
| 39 | T | Methylcyclohexane | 0.587 | 0.601 | -2.4 | 99 | 0.00 |
| 40 | TM | Benzene | 1.370 | 1.421 | -3.7 | 98 | 0.00 |
| 41 | T | Methacrylonitrile | 0.274 | 0.287 | -4.7 | 102 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.487 | 2.6 | 92 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.866 | 0.895 | -3.3 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 0.329 | 0.332 | -0.9 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.345 | 0.367 | -6.4# | 101 | 0.00 |
| 46 | T | Dibromomethane | 0.263 | 0.264 | -0.4 | 97 | 0.00 |
| 47 | T | Bromodichloromethane | 0.538 | 0.535 | 0.6 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 0.402 | 0.433 | -7.7 | 98 | 0.00 |

Sample Results: **VX044711.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 0.008 | 0.008 | 0.0 | 95 | 0.00 |
| 50 | S | Toluene-d8 | 1.108 | 1.118 | -0.9 | 91 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.479 | 0.506 | -5.6 | 102 | 0.00 |
| 52 | CM | Toluene | 0.839 | 0.864 | -3.0# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.556 | 0.582 | -4.7 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.603 | 0.618 | -2.5 | 98 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.339 | 0.351 | -3.5 | 100 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.583 | 0.616 | -5.7 | 99 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.578 | 0.609 | -5.4 | 99 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.286 | 0.283 | 1.0 | 94 | 0.00 |
| 59 | T | 2-Hexanone | 0.352 | 0.364 | -3.4 | 100 | 0.00 |
| 60 | T | Dibromochloromethane | 0.398 | 0.411 | -3.3 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.356 | 0.365 | -2.5 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.413 | 0.422 | -2.2 | 91 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 0.314 | 0.305 | 2.9 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 1.062 | 1.085 | -2.2 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.386 | 0.375 | 2.8 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 1.853 | 1.874 | -1.1# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 0.688 | 0.702 | -2.0 | 99 | 0.00 |
| 69 | T | o-Xylene | 0.695 | 0.695 | 0.0 | 96 | 0.00 |
| 70 | T | Styrene | 1.123 | 1.192 | -6.1 | 101 | 0.00 |
| 71 | P | Bromoform | 0.314 | 0.313 | 0.3 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 96 | 0.00 |
| 73 | T | Isopropylbenzene | 4.085 | 3.903 | 4.5 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 2.013 | 1.953 | 3.0 | 99 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.411 | 1.377 | 2.4 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.213 | 1.160 | 4.4 | 101 | 0.00 |
| 77 | T | Bromobenzene | 0.955 | 0.950 | 0.5 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 4.505 | 4.572 | -1.5 | 100 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.910 | 2.832 | 2.7 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.325 | 3.272 | 1.6 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.531 | 0.525 | 1.1 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.188 | 3.225 | -1.2 | 101 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.477 | 3.268 | 6.0 | 95 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.379 | 3.287 | 2.7 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.048 | 3.992 | 1.4 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.327 | 3.290 | 1.1 | 98 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.656 | 1.722 | -4.0 | 103 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.674 | 1.716 | -2.5 | 105 | 0.00 |
| 89 | T | n-Butylbenzene | 2.857 | 3.006 | -5.2 | 103 | 0.00 |
| 90 | T | Hexachloroethane | 0.753 | 0.692 | 8.1 | 97 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.700 | 1.665 | 2.1 | 99 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.345 | 0.282 | 18.3 | 87 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.016 | 1.073 | -5.6 | 100 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.399 | 0.395 | 1.0 | 97 | 0.00 |
| 95 | T | Naphthalene | 3.920 | 3.936 | -0.4 | 99 | 0.00 |

Sample Results: **VX044711.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 1.054 | 1.088 | -3.2 | 99 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VX044711.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 90 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 48.124 | 3.8 | 86 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 53.335 | -6.7 | 99 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 52.177 | -4.4# | 96 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 52.854 | -5.7 | 96 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 67.485 | -35.0# | 137 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 49.099 | 1.8 | 92 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 42.582 | 14.8 | 84 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 51.232 | -2.5 | 100 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 50.103 | -0.2 | 91 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 229.357 | 8.3 | 92 | -0.01 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 52.279 | -4.6# | 98 | 0.00 |
| 13 | T | Acrolein | 250.000 | 544.657 | -117.9# | 230 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 50.932 | -1.9 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 267.495 | -7.0 | 102 | 0.00 |
| 16 | T | Acetone | 250.000 | 240.764 | 3.7 | 97 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 52.854 | -5.7 | 99 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 53.407 | -6.8 | 101 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 51.834 | -3.7 | 98 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 52.799 | -5.6 | 102 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 50.522 | -1.0 | 98 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 56.003 | -12.0 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 272.725 | -9.1 | 103 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 52.632 | -5.3 | 99 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 264.600 | -5.8 | 99 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 46.357 | 7.3 | 90 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 51.078 | -2.2 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 51.564 | -3.1 | 96 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 263.398 | -5.4 | 102 | 0.00 |
| 30 | C | Chloroform | 50.000 | 50.771 | -1.5# | 95 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 53.957 | -7.9 | 99 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 45.490 | 9.0 | 90 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 47.336 | 5.3 | 87 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 91 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 49.831 | 0.3 | 90 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 48.940 | 2.1 | 96 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 53.669 | -7.3 | 99 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 45.521 | 9.0 | 89 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 51.179 | -2.4 | 99 | 0.00 |
| 40 | TM | Benzene | 50.000 | 51.868 | -3.7 | 98 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 52.289 | -4.6 | 102 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 48.725 | 2.5 | 92 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 51.667 | -3.3 | 99 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 50.413 | -0.8 | 95 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 53.245 | -6.5# | 101 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 50.244 | -0.5 | 97 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 49.656 | 0.7 | 95 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 53.829 | -7.7 | 98 | 0.00 |

Sample Results: **VX044711.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 991.841 | 0.8 | 95 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 50.477 | -1.0 | 91 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 264.229 | -5.7 | 102 | 0.00 |
| 52 | CM | Toluene | 50.000 | 51.531 | -3.1# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 52.351 | -4.7 | 97 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 51.254 | -2.5 | 98 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 51.785 | -3.6 | 100 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 52.829 | -5.7 | 99 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 52.726 | -5.5 | 99 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 247.155 | 1.1 | 94 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 258.046 | -3.2 | 100 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 51.638 | -3.3 | 98 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 51.277 | -2.6 | 98 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 51.142 | -2.3 | 91 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 92 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 48.623 | 2.8 | 95 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 51.069 | -2.1 | 99 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 48.599 | 2.8 | 94 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.576 | -1.2# | 97 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 102.049 | -2.0 | 99 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 49.989 | 0.0 | 96 | 0.00 |
| 70 | T | Styrene | 50.000 | 53.068 | -6.1 | 101 | 0.00 |
| 71 | P | Bromoform | 50.000 | 49.769 | 0.5 | 96 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 96 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 47.772 | 4.5 | 96 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 48.507 | 3.0 | 99 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 48.822 | 2.4 | 102 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 47.797 | 4.4 | 101 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 49.729 | 0.5 | 101 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 50.743 | -1.5 | 100 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 48.661 | 2.7 | 99 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.198 | 1.6 | 99 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 49.439 | 1.1 | 99 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 50.588 | -1.2 | 101 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 46.992 | 6.0 | 95 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 48.633 | 2.7 | 99 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 49.309 | 1.4 | 99 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 49.439 | 1.1 | 98 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 52.016 | -4.0 | 103 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 51.247 | -2.5 | 105 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 52.602 | -5.2 | 103 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 45.956 | 8.1 | 97 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 48.972 | 2.1 | 99 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 40.823 | 18.4 | 87 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 52.765 | -5.5 | 100 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 49.450 | 1.1 | 97 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 50.197 | -0.4 | 99 | 0.00 |

Sample Results: **VX044711.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 51.628 | -3.3 | 99 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Raw Data: **VX044734.D**

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.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date/Time: 01/27/2025 19:09

Lab File ID: VX044734.D Init. Calib. Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 13:37

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Chloromethane | 0.728 | 0.744 | 0.1 | 2.2 | 50 |
| Vinyl Chloride | 0.719 | 0.766 | | 6.54 | 50 |
| Bromomethane | 0.172 | 0.186 | | 8.14 | 50 |
| Chloroethane | 0.132 | 0.181 | | 37.12 | 50 |
| Trichlorofluoromethane | 0.795 | 0.925 | | 16.35 | 50 |
| 1,1,2-Trichlorotrifluoroethane | 0.597 | 0.628 | | 5.19 | 50 |
| 1,1-Dichloroethene | 0.585 | 0.647 | | 10.6 | 50 |
| Acetone | 0.299 | 0.300 | | 0.33 | 50 |
| Carbon Disulfide | 1.598 | 1.710 | | 7.08 | 50 |
| Methyl tert-butyl Ether | 2.121 | 2.147 | | 1.23 | 50 |
| Methylene Chloride | 0.695 | 0.714 | | 2.73 | 50 |
| trans-1,2-Dichloroethene | 0.611 | 0.636 | | 4.09 | 50 |
| 1,1-Dichloroethane | 1.175 | 1.255 | 0.1 | 6.81 | 50 |
| 2-Butanone | 0.444 | 0.489 | | 10.14 | 50 |
| Carbon Tetrachloride | 0.497 | 0.462 | | -7.04 | 50 |
| cis-1,2-Dichloroethene | 0.769 | 0.784 | | 1.95 | 50 |
| Chloroform | 1.186 | 1.201 | | 1.26 | 50 |
| 1,1,1-Trichloroethane | 1.090 | 1.028 | | -5.69 | 50 |
| Methylcyclohexane | 0.587 | 0.588 | | 0.17 | 50 |
| Benzene | 1.370 | 1.426 | | 4.09 | 50 |
| 1,2-Dichloroethane | 0.500 | 0.460 | | -8 | 50 |
| Trichloroethene | 0.329 | 0.329 | | 0 | 50 |
| 1,2-Dichloropropane | 0.345 | 0.360 | | 4.35 | 50 |
| Bromodichloromethane | 0.538 | 0.505 | | -6.13 | 50 |
| 4-Methyl-2-Pentanone | 0.479 | 0.494 | | 3.13 | 50 |
| Toluene | 0.839 | 0.847 | | 0.95 | 50 |
| t-1,3-Dichloropropene | 0.556 | 0.518 | | -6.84 | 50 |
| cis-1,3-Dichloropropene | 0.603 | 0.575 | | -4.64 | 50 |
| 1,1,2-Trichloroethane | 0.339 | 0.332 | | -2.07 | 50 |
| 2-Hexanone | 0.352 | 0.362 | | 2.84 | 50 |
| Dibromochloromethane | 0.398 | 0.369 | | -7.29 | 50 |
| Tetrachloroethene | 0.314 | 0.307 | | -2.23 | 50 |
| Chlorobenzene | 1.062 | 1.060 | 0.3 | -0.19 | 50 |
| Ethyl Benzene | 1.853 | 1.887 | | 1.84 | 50 |
| m/p-Xylenes | 0.688 | 0.698 | | 1.45 | 50 |
| o-Xylene | 0.695 | 0.694 | | -0.14 | 50 |
| Styrene | 1.123 | 1.138 | | 1.34 | 50 |
| Bromoform | 0.314 | 0.292 | 0.1 | -7.01 | 50 |

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 CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q1173 SAS No.: Q1173 SDG No.: Q1173

Instrument ID: MSVOA_X Calibration Date/Time: 01/27/2025 19:09

Lab File ID: VX044734.D Init. Calib. Date(s): 01/15/2025 01/15/2025

Heated Purge: (Y/N) N Init. Calib. Time(s): 10:31 13:37

GC Column: DB-624UI ID: 0.18 (mm)

| COMPOUND | RRF | RRF050 | MIN RRF | %D | MAX%D |
|---|---|---|---|---|---|
| Isopropylbenzene | 4.085 | 4.084 | | -0.02 | 50 |
| 1,1,2,2-Tetrachloroethane | 1.411 | 1.419 | 0.3 | 0.57 | 50 |
| 1,3-Dichlorobenzene | 1.656 | 1.674 | | 1.09 | 50 |
| 1,4-Dichlorobenzene | 1.674 | 1.631 | | -2.57 | 50 |
| 1,2-Dichlorobenzene | 1.700 | 1.674 | | -1.53 | 50 |
| 1,2-Dichloroethane-d4 | 0.755 | 0.712 | | -5.7 | 50 |
| Dibromofluoromethane | 0.318 | 0.320 | | 0.63 | 50 |
| Toluene-d8 | 1.108 | 1.148 | | 3.61 | 50 |
| 4-Bromofluorobenzene | 0.413 | 0.386 | | -6.54 | 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_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 172951 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 325756 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 269229 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 114515 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 123215 | 47.199 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 94.400% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 104400 | 50.447 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.900% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 374057 | 51.838 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 103.680% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 125660 | 46.714 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 93.420% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 111723 | 48.005 | ug/l | 99 |
| 3) Chloromethane | 1.307 | 50 | 128721 | 51.146 | ug/l | 98 |
| 4) Vinyl Chloride | 1.374 | 62 | 132495 | 53.282 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 32222 | 54.267 | ug/l | 97 |
| 6) Chloroethane | 1.660 | 64 | 31340m | 68.728 | ug/l | |
| 7) Trichlorofluoromethane | 1.867 | 101 | 160029 | 58.228 | ug/l | 98 |
| 8) Diethyl Ether | 2.136 | 74 | 57882 | 52.188 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 108656 | 52.594 | ug/l | 98 |
| 10) Methyl Iodide | 2.447 | 142 | 146080 | 51.790 | ug/l | 97 |
| 11) Tert butyl alcohol | 2.989 | 59 | 133813 | 229.927 | ug/l # | 85 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 111815 | 55.215 | ug/l | 96 |
| 13) Acrolein | 2.239 | 56 | 90124 | 329.074 | ug/l | 99 |
| 14) Allyl chloride | 2.654 | 41 | 200564 | 50.867 | ug/l | 97 |
| 15) Acrylonitrile | 3.062 | 53 | 318594 | 279.107 | ug/l | 99 |
| 16) Acetone | 2.386 | 43 | 259537 | 251.283 | ug/l | 96 |
| 17) Carbon Disulfide | 2.501 | 76 | 295781 | 53.527 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 186114 | 58.407 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 371345 | 50.627 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 123457 | 51.328 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 110052 | 52.052 | ug/l | 98 |
| 22) Diisopropyl ether | 3.757 | 45 | 381220 | 55.621 | ug/l | 98 |
| 23) Vinyl Acetate | 3.721 | 43 | 1606823 | 267.851 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 217085 | 53.411 | ug/l | 99 |
| 25) 2-Butanone | 4.556 | 43 | 423266 | 275.626 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 166555 | 42.282 | ug/l | 95 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 135627 | 50.998 | ug/l | 97 |
| 28) Bromochloromethane | 4.891 | 49 | 103327 | 54.405 | ug/l | 95 |
| 29) Tetrahydrofuran | 5.001 | 42 | 277269 | 279.917 | ug/l | 97 |
| 30) Chloroform | 5.086 | 83 | 207669 | 50.629 | ug/l | 98 |
| 31) Cyclohexane | 5.464 | 56 | 185760 | 56.510 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 177763 | 47.142 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 142861 | 49.591 | ug/l | 99 |
| 37) Ethyl Acetate | 4.714 | 43 | 168109 | 54.798 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 150574 | 46.468 | ug/l | 97 |
| 39) Methylcyclohexane | 7.373 | 83 | 191661 | 50.118 | ug/l | 98 |
| 40) Benzene | 6.031 | 78 | 464502 | 52.035 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 93115 | 52.088 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 149994 | 46.037 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.336 | 43 | 280126 | 49.636 | ug/l | | 99 |
| 44) Trichloroethene | 7.123 | 130 | 107262 | 49.981 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 117332 | 52.217 | ug/l | | 98 |
| 46) Dibromomethane | 7.574 | 93 | 82056 | 47.970 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 164495 | 46.892 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.690 | 41 | 133656 | 51.021 | ug/l | | 98 |
| 49) 1,4-Dioxane | 7.665 | 88 | 52370 | 958.191 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 804760 | 258.036 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 275818 | 50.481 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 168742 | 46.558 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 187397 | 47.685 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 108031 | 48.870 | ug/l | | 97 |
| 56) Ethyl methacrylate | 9.116 | 69 | 185430 | 48.786 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 185086 | 49.168 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 417955 | 223.982 | ug/l | | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 589548 | 256.939 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 120124 | 46.299 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 110375 | 47.644 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 82704 | 48.921 | ug/l | | 99 |
| 65) Chlorobenzene | 10.073 | 112 | 285275 | 49.886 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 98702 | 47.492 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 508128 | 50.924 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 375897 | 101.518 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 186721 | 49.864 | ug/l | | 99 |
| 70) Styrene | 10.652 | 104 | 306315 | 50.666 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 78698 | 46.525 | ug/l | # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 467702 | 49.995 | ug/l | | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 230784 | 50.050 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 162476 | 50.287 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 134928m | 48.551 | ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 105832 | 48.400 | ug/l | | 97 |
| 78) n-propylbenzene | 11.299 | 91 | 537719 | 52.120 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 324771 | 48.732 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 377028 | 49.507 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 58035 | 47.755 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 360773 | 49.417 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 384493 | 48.285 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 375017 | 48.458 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 468207 | 50.498 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 384326 | 50.439 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 191747 | 50.565 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 186749 | 48.716 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 337088 | 51.507 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 81232 | 47.079 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 191751 | 49.238 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 33494 | 42.388 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 116141 | 49.887 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 43217 | 47.259 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 446363 | 49.711 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.963 | 180 | 118806 | 49.232 | ug/l | | 99 |

Sample Results: **VX044734.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

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

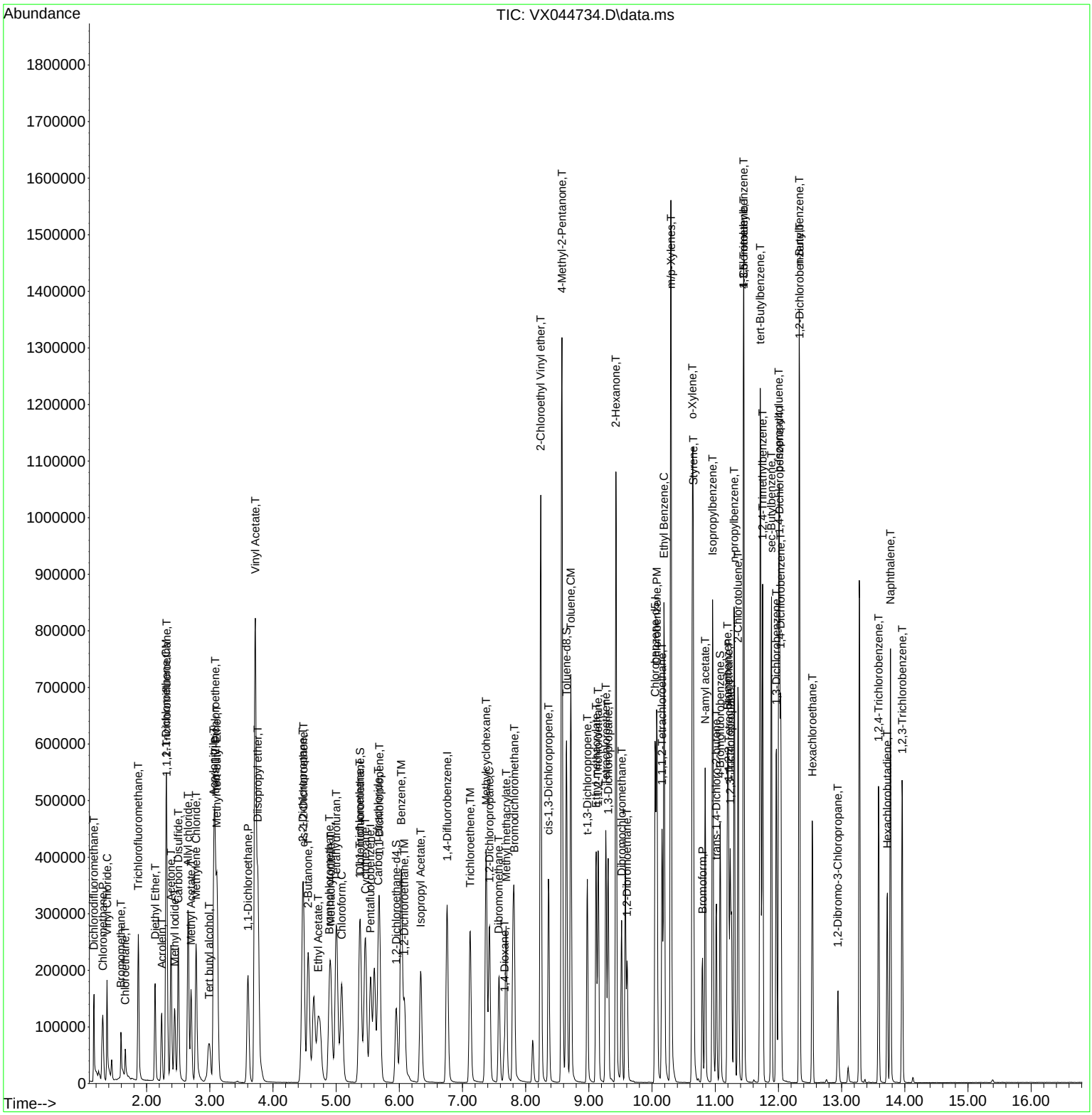
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

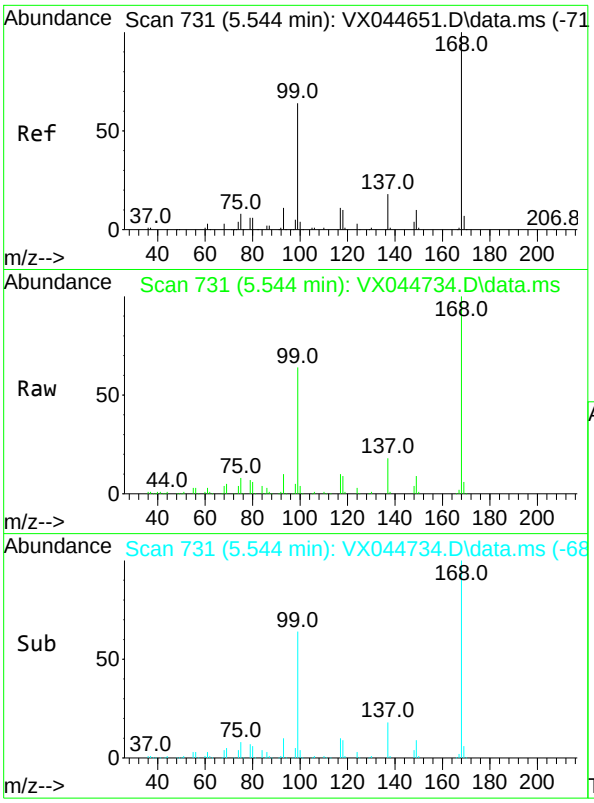
Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

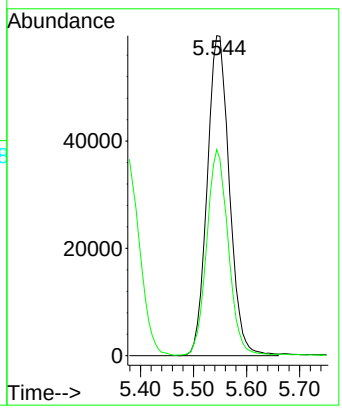





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:168 Resp: 17295

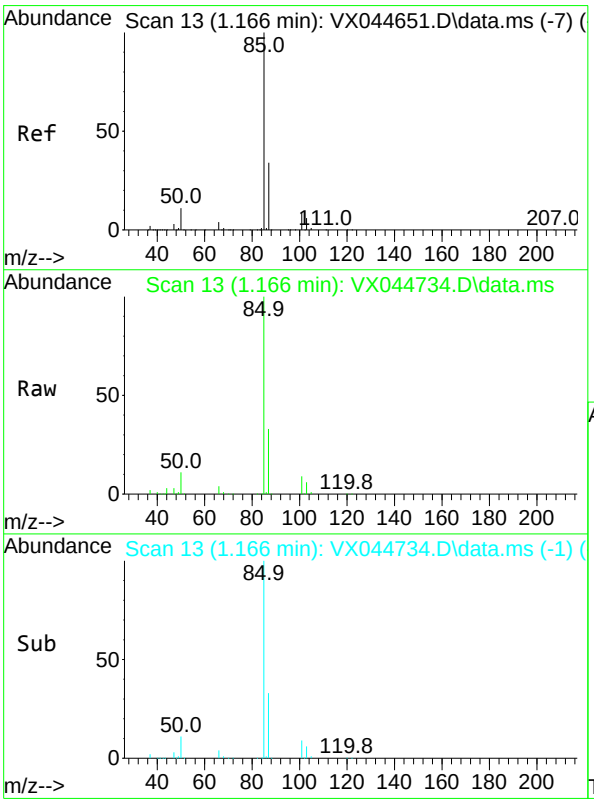
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.2 | 51.1 | 76.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

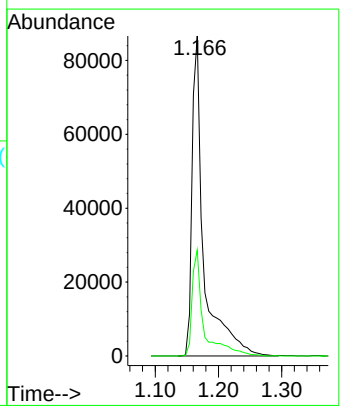
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

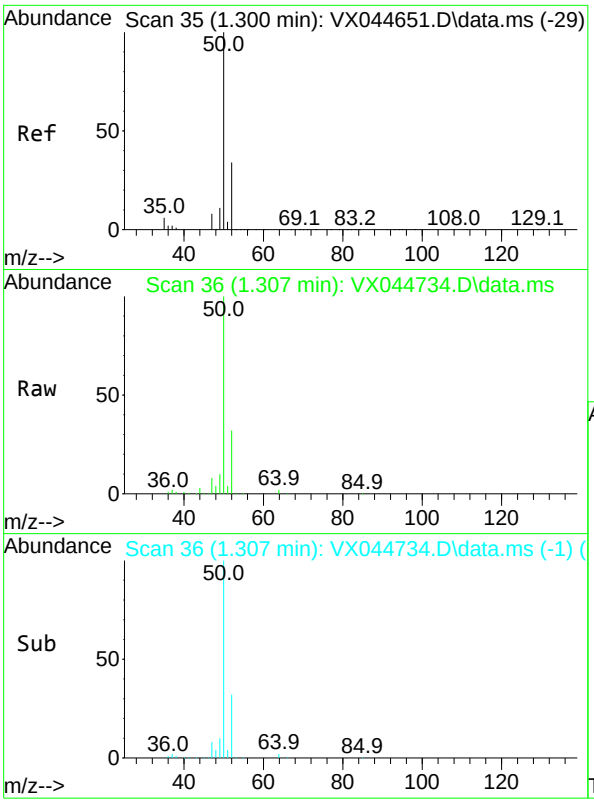



#2
Dichlorodifluoromethane
Concen: 48.005 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 85 Resp: 111723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 16.8 | 50.4 |

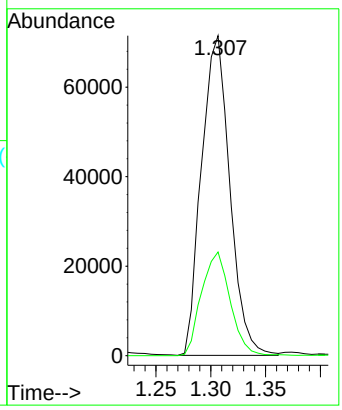





#3
Chloromethane
Concen: 51.146 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 50 Resp: 12872

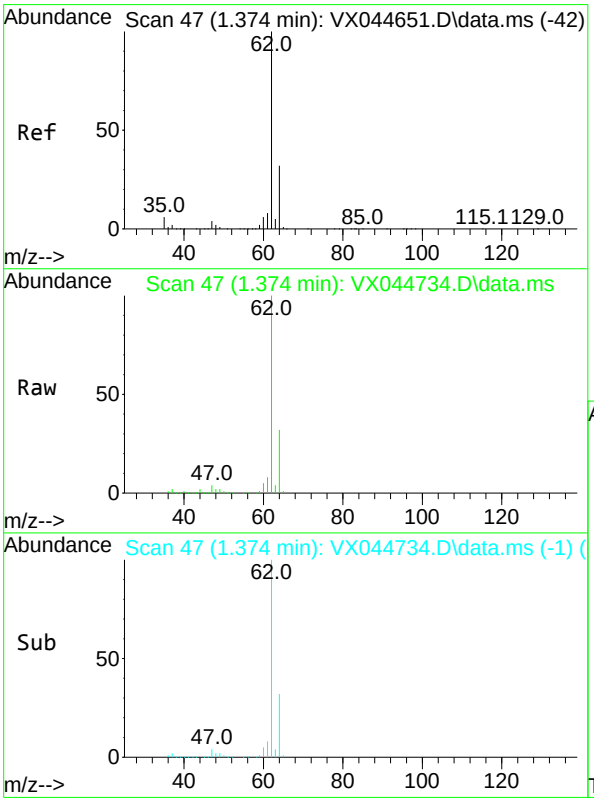
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.4 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

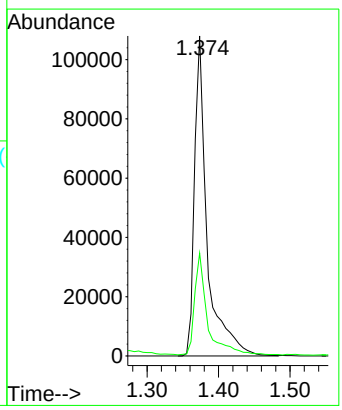
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

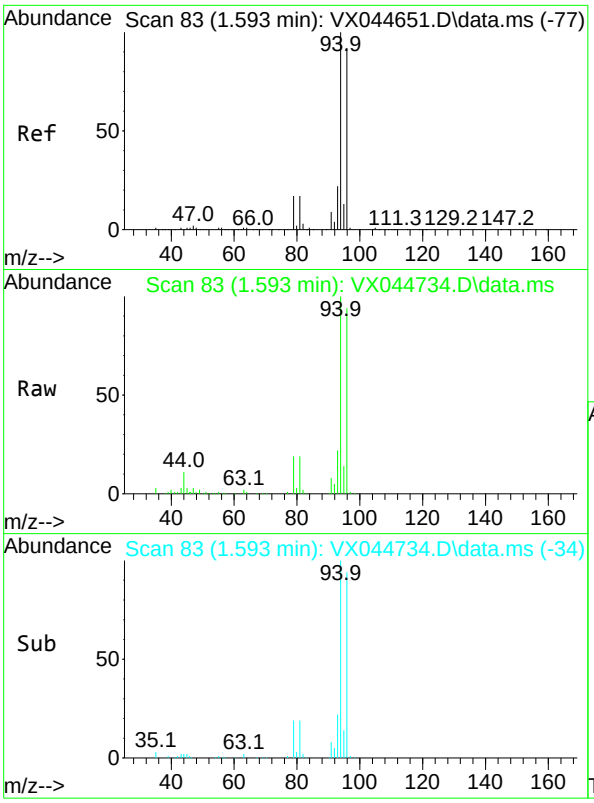



#4
Vinyl Chloride
Concen: 53.282 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 62 Resp: 132495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 26.6 | 39.8 |

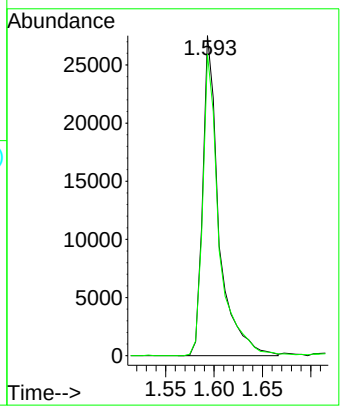





#5
Bromomethane
Concen: 54.267 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 94 Resp: 3222

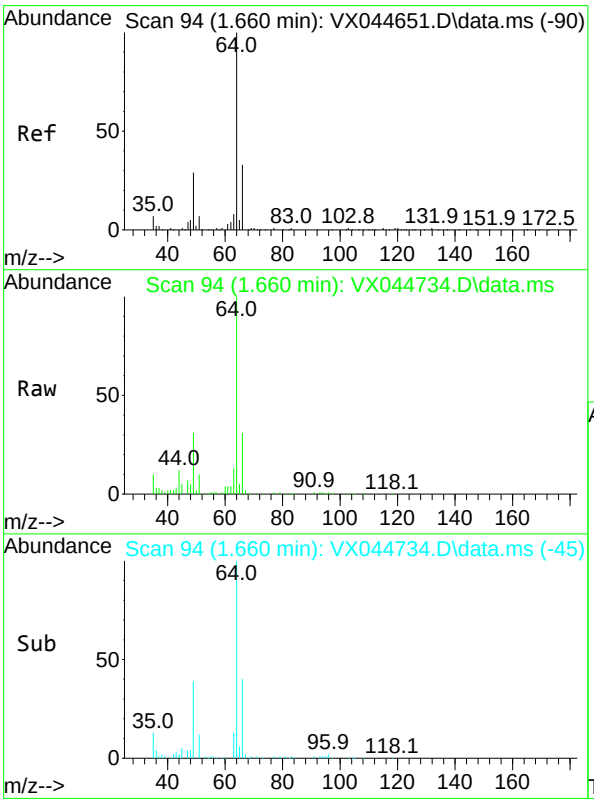
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.2 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

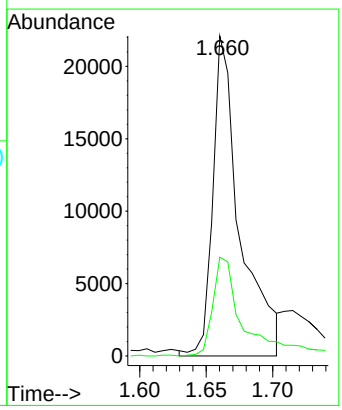
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

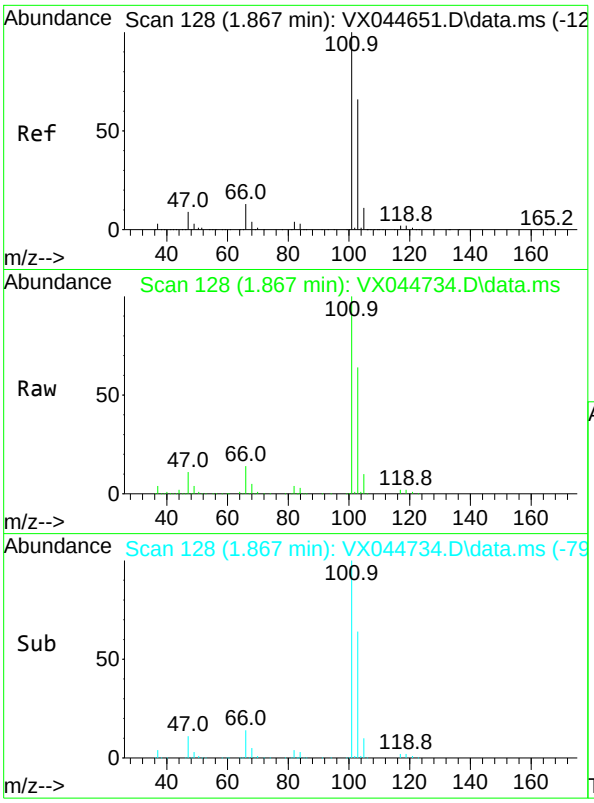



#6
Chloroethane
Concen: 68.728 ug/l m
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 64 Resp: 31340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.8 | 26.6 | 39.8 |

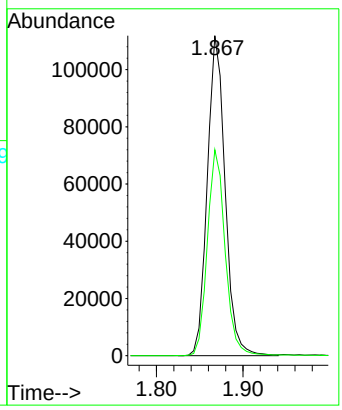





#7
Trichlorofluoromethane
Concen: 58.228 ug/l
RT: 1.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:101 Resp: 16002

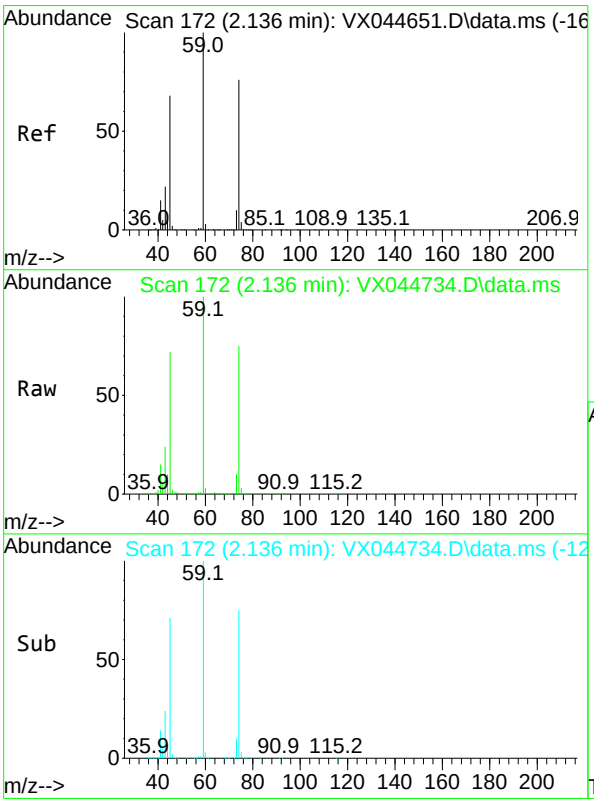
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.3 | 52.5 | 78.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

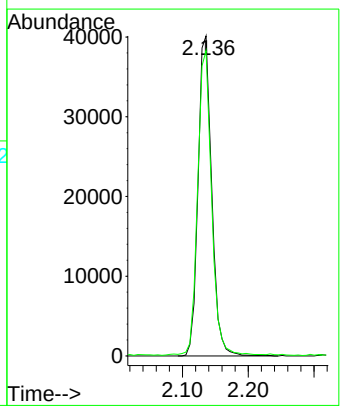
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

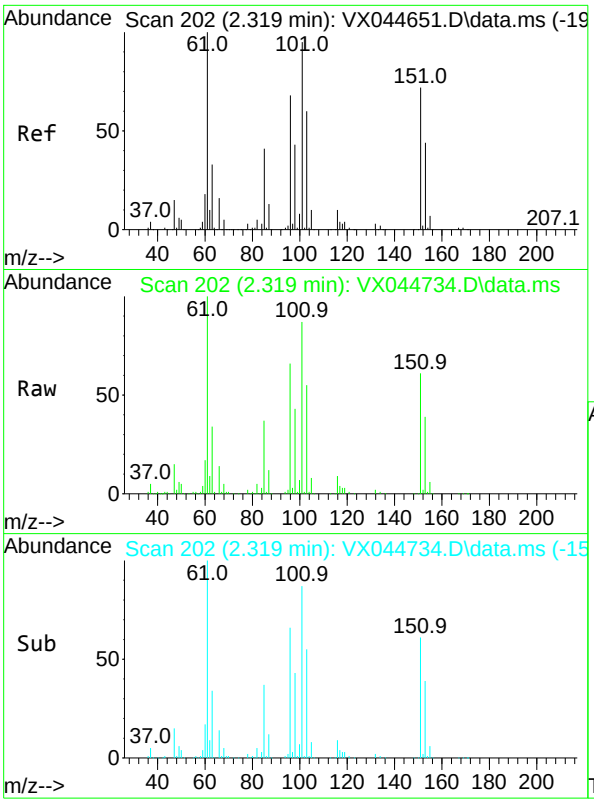



#8
Diethyl Ether
Concen: 52.188 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 74 Resp: 57882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.7 | 47.1 | 141.3 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.594 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

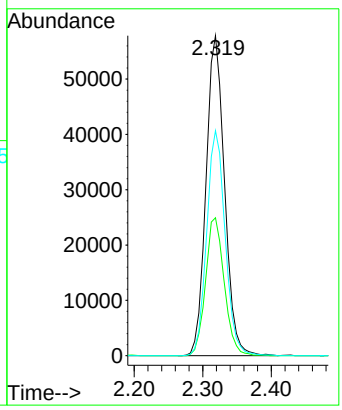
Tgt Ion:101 Resp: 10865

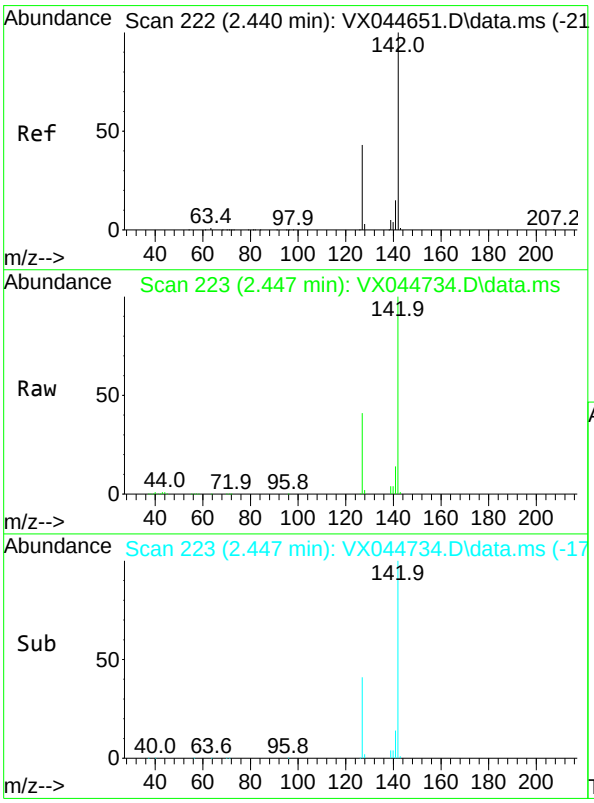
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.5 | 35.3 | 52.9 |
| 151 | 70.4 | 58.2 | 87.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

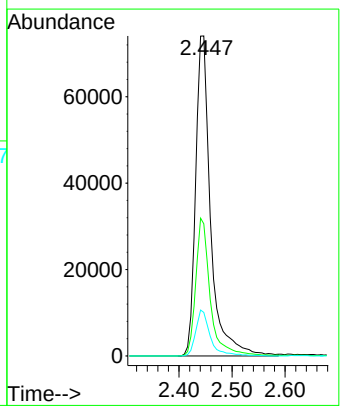


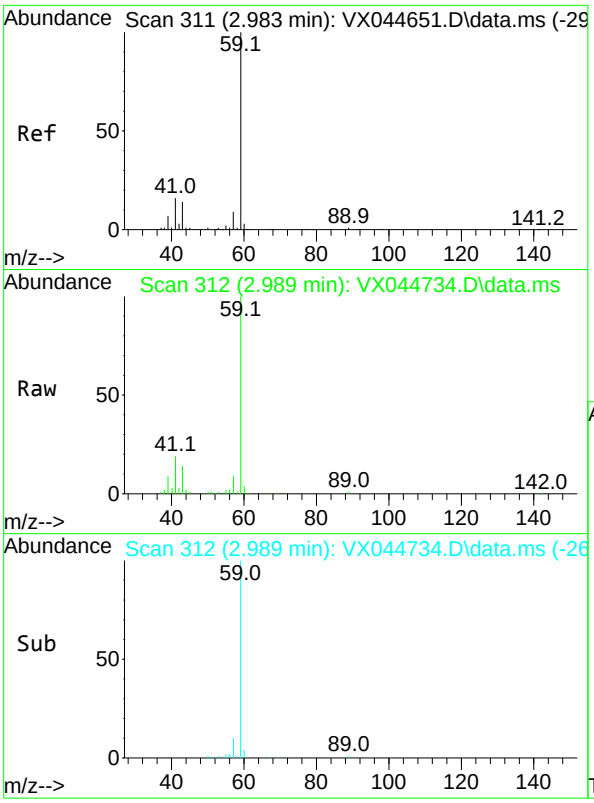




#10
Methyl Iodide
Concen: 51.790 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:142 Resp: 146080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 41.8 | 35.0 | 52.4 |
| 141 | 14.0 | 11.7 | 17.5 |






#11
Tert butyl alcohol
Concen: 229.927 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

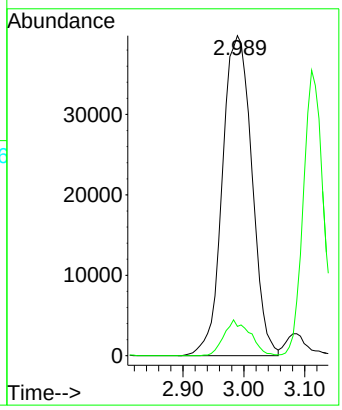
Tgt Ion: 59 Resp: 13381

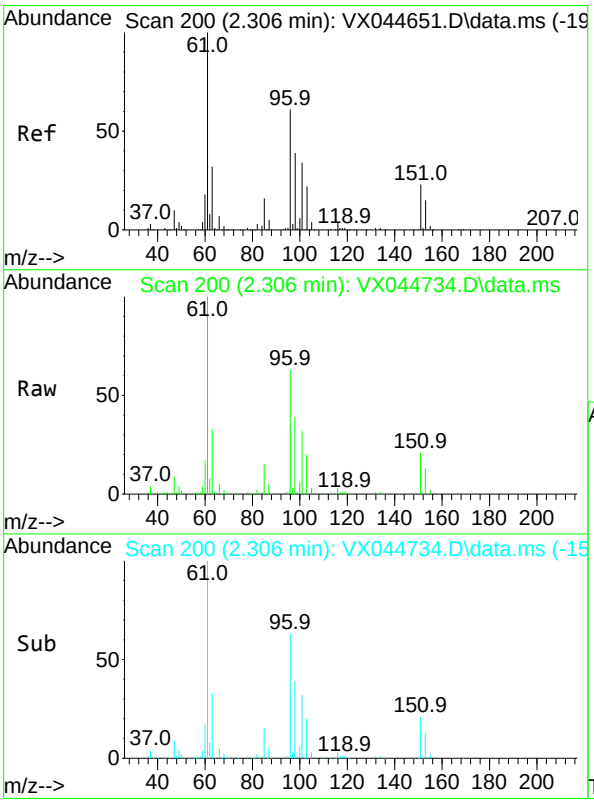
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.0 | 3.9 | 5.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

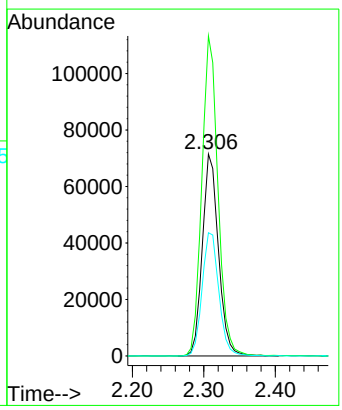


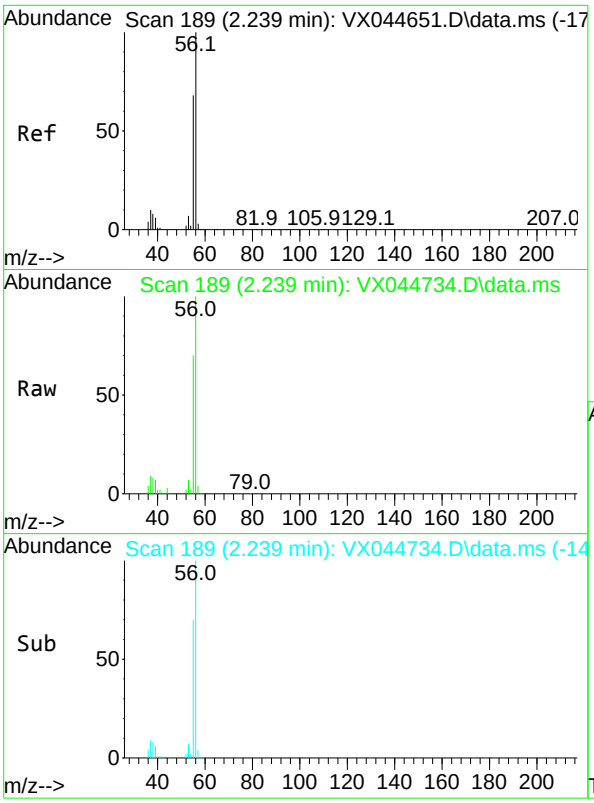




#12
1,1-Dichloroethene
Concen: 55.215 ug/l
RT: 2.306 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 96 Resp: 111815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.5 | 131.1 | 196.7 |
| 98 | 61.1 | 51.2 | 76.8 |

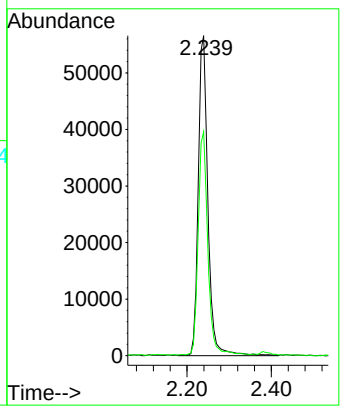





#13
Acrolein
Concen: 329.074 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 56 Resp: 9012

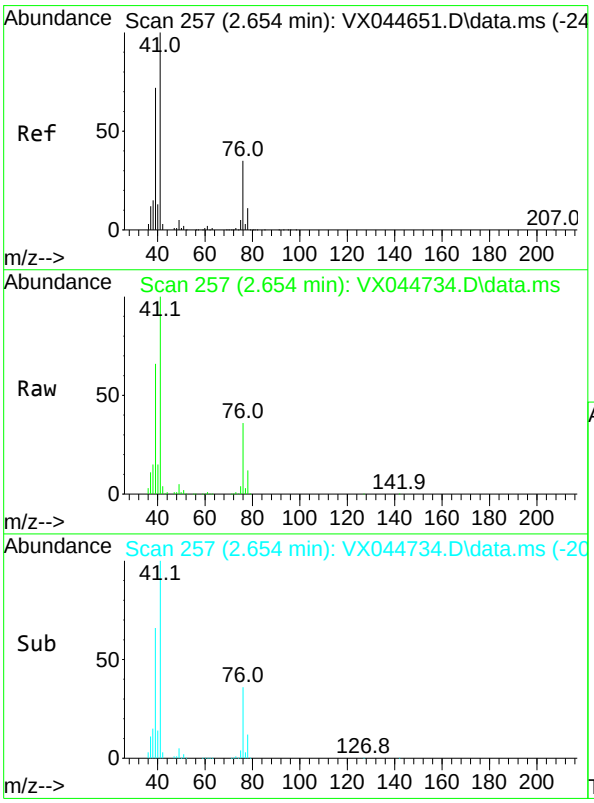
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.4 | 55.1 | 82.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

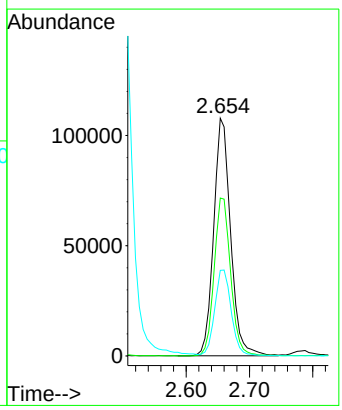
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

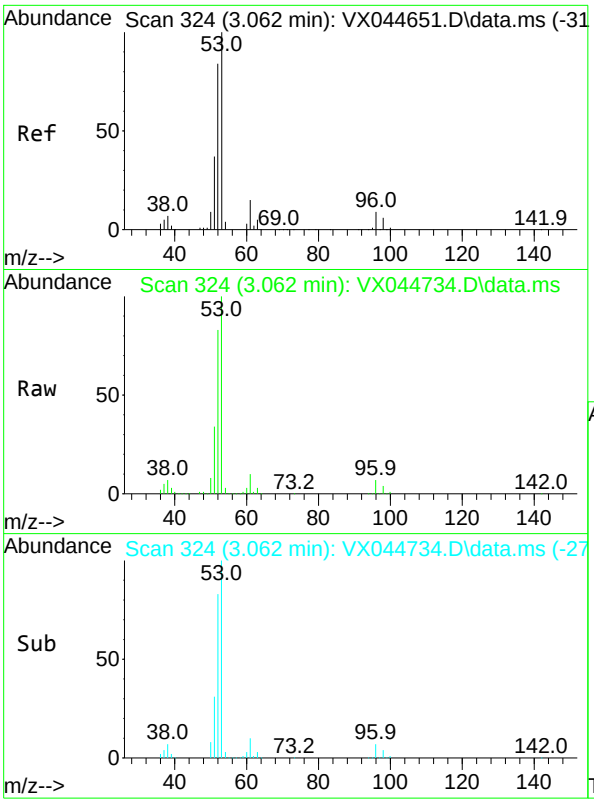



#14
Allyl chloride
Concen: 50.867 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 41 Resp: 200564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 64.9 | 54.9 | 82.3 |
| 76 | 35.4 | 28.4 | 42.6 |

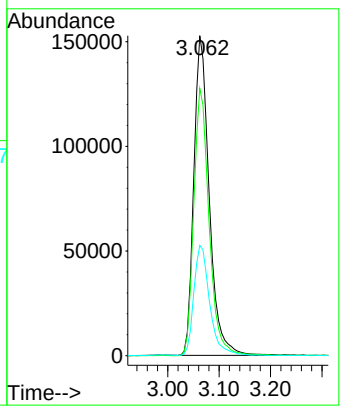





#15
Acrylonitrile
Concen: 279.107 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 53 Resp: 31859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.3 | 66.0 | 99.0 |
| 51 | 35.2 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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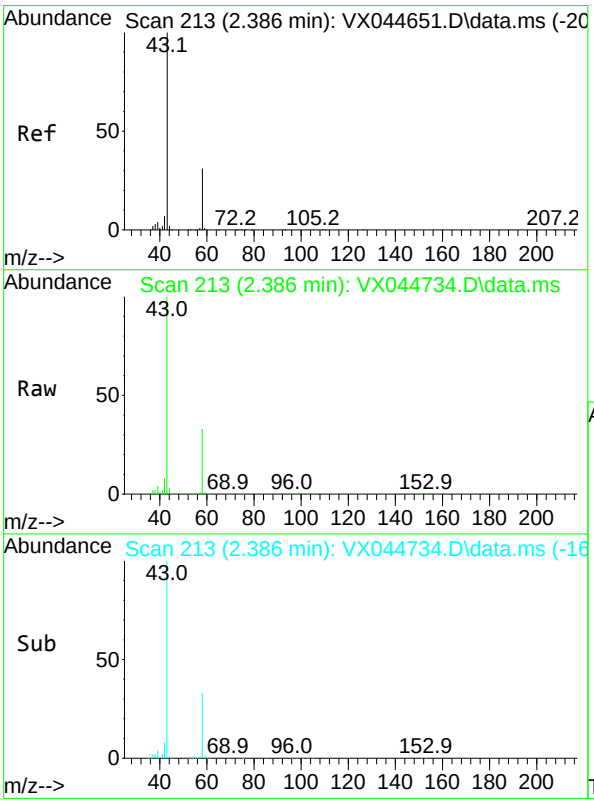
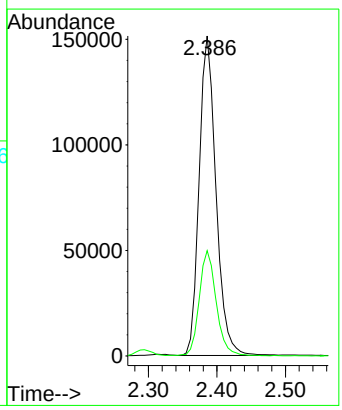
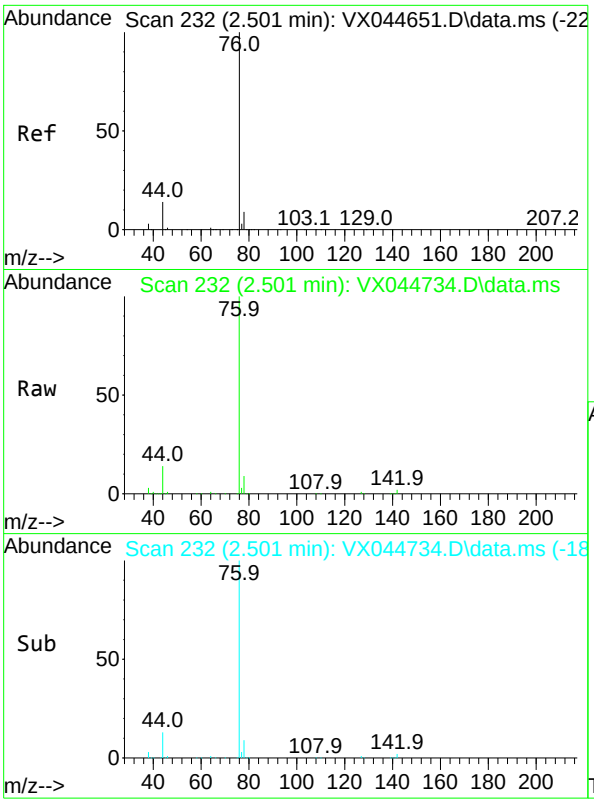



#16
Acetone
Concen: 251.283 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 259537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.8 | 24.6 | 37.0 |






#17
Carbon Disulfide
Concen: 53.527 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 76 Resp: 29578

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.1 | 10.7 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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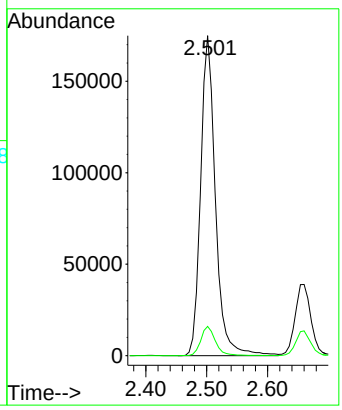
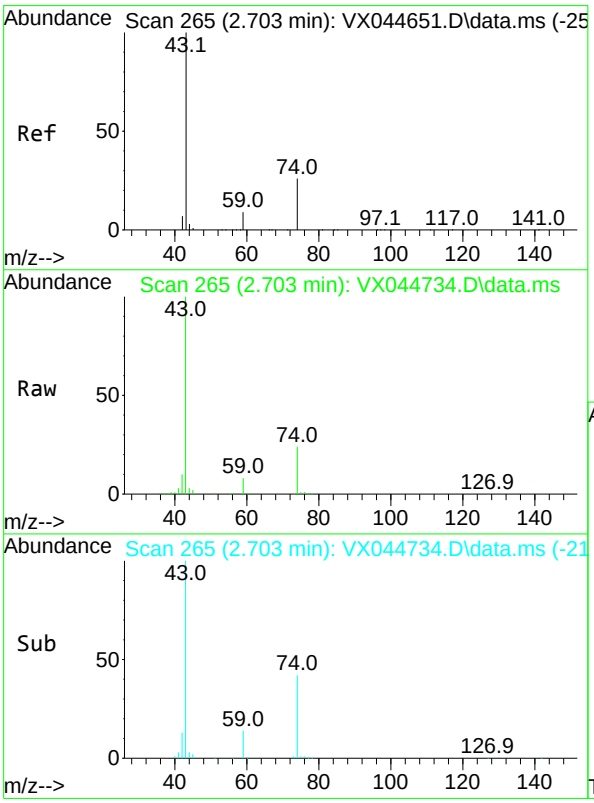
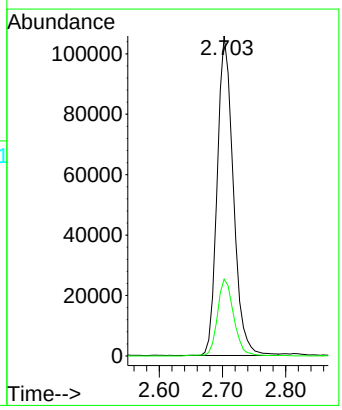


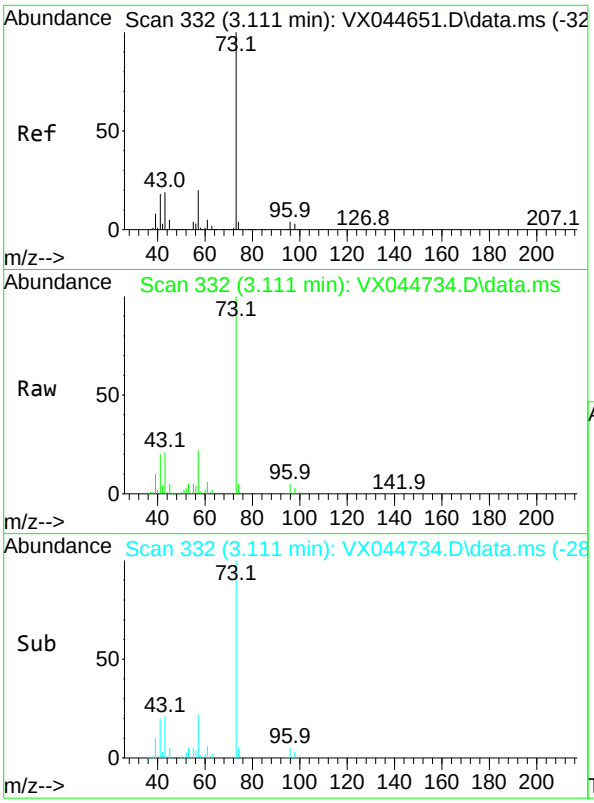




#18
Methyl Acetate
Concen: 58.407 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 186114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.4 | 19.8 | 29.8 |

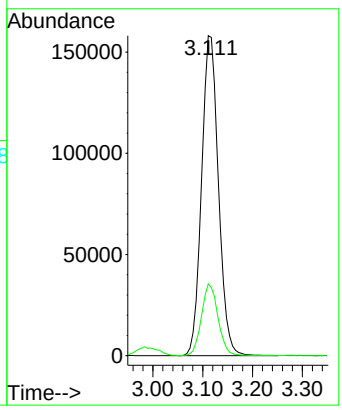





#19
Methyl tert-butyl Ether
Concen: 50.627 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 73 Resp: 37134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.4 | 17.4 | 26.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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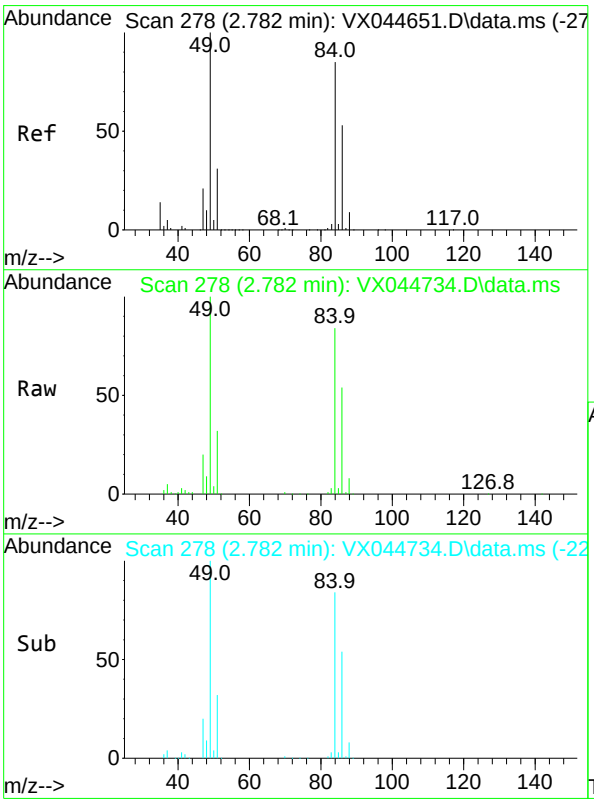
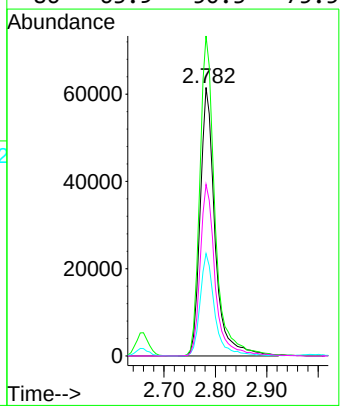
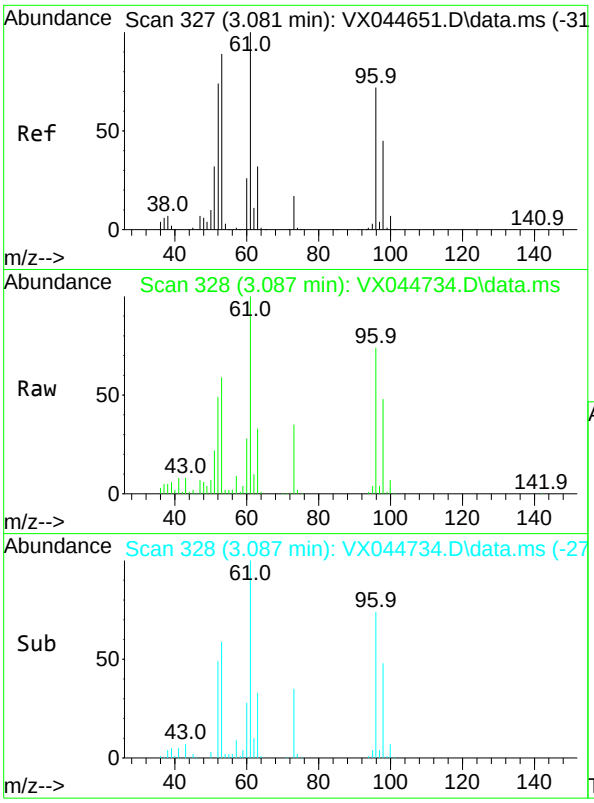



#20
Methylene Chloride
Concen: 51.328 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 84 Resp: 123457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.2 | 94.2 | 141.4 |
| 51 | 38.2 | 28.8 | 43.2 |
| 86 | 63.9 | 50.3 | 75.5 |






#21
trans-1,2-Dichloroethene
Concen: 52.052 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 96 Resp: 11005

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.8 | 111.0 | 166.6 |
| 98 | 64.6 | 50.2 | 75.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

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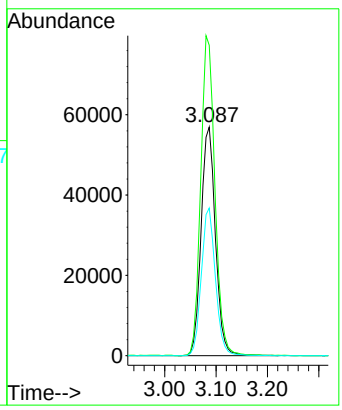
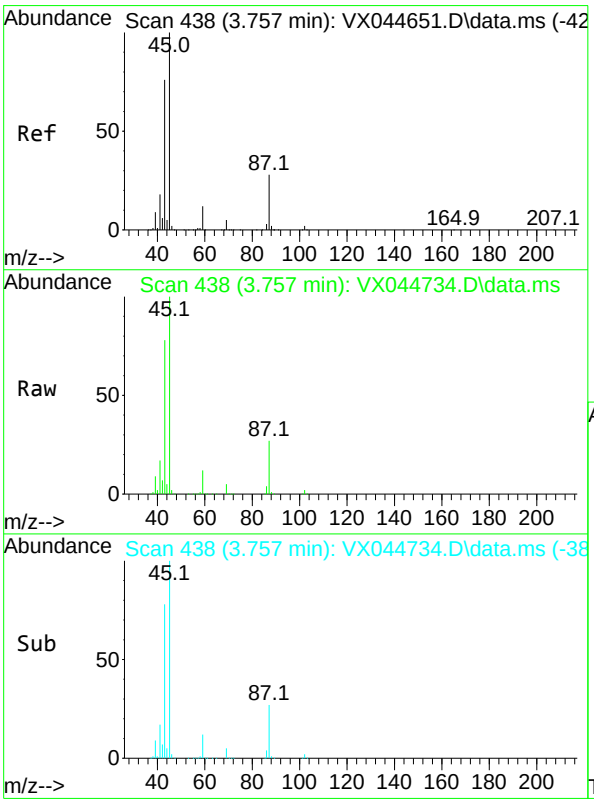
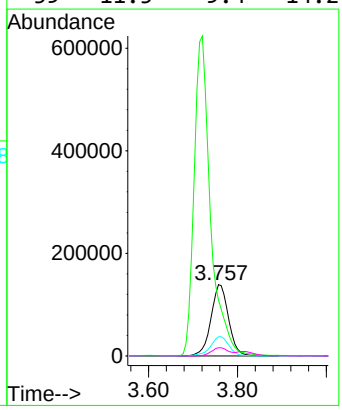


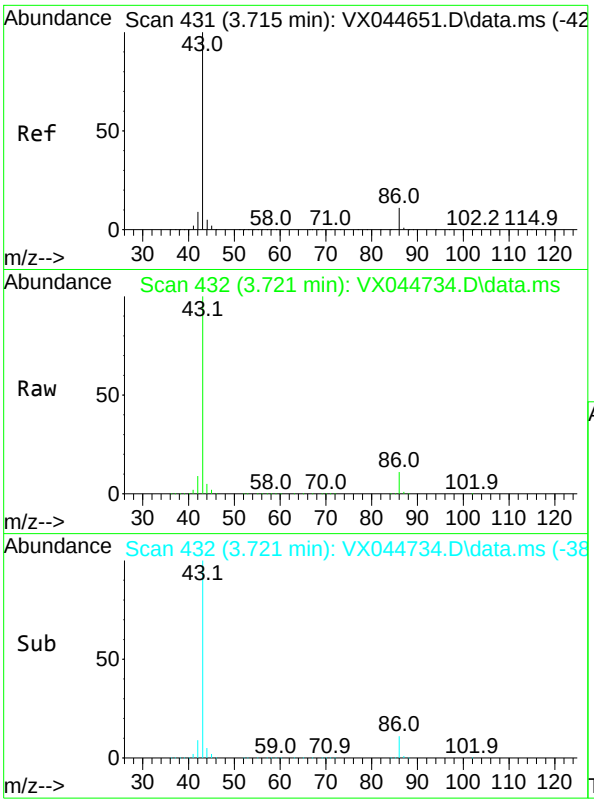




#22
Diisopropyl ether
Concen: 55.621 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 45 Resp: 381220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 78.1 | 61.0 | 91.6 |
| 87 | 26.8 | 22.7 | 34.1 |
| 59 | 11.5 | 9.4 | 14.2 |






#23
Vinyl Acetate
Concen: 267.851 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 160682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.1 | 8.9 | 13.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

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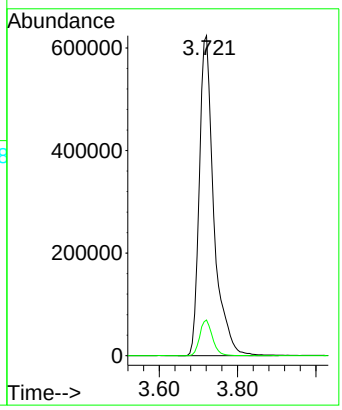
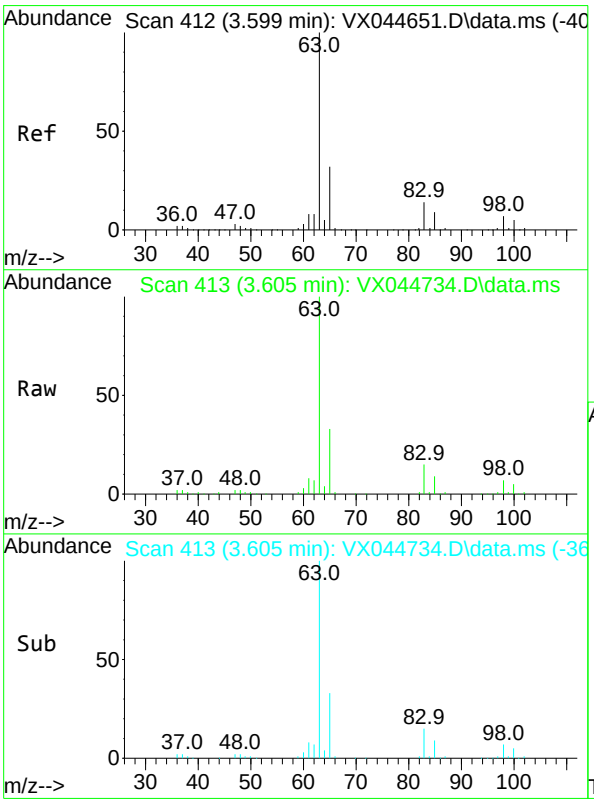
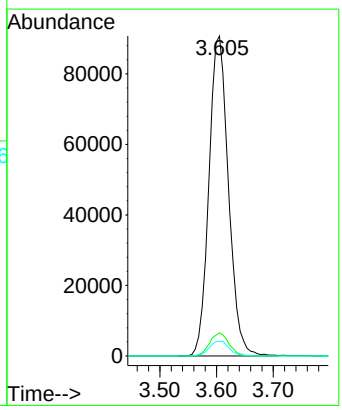


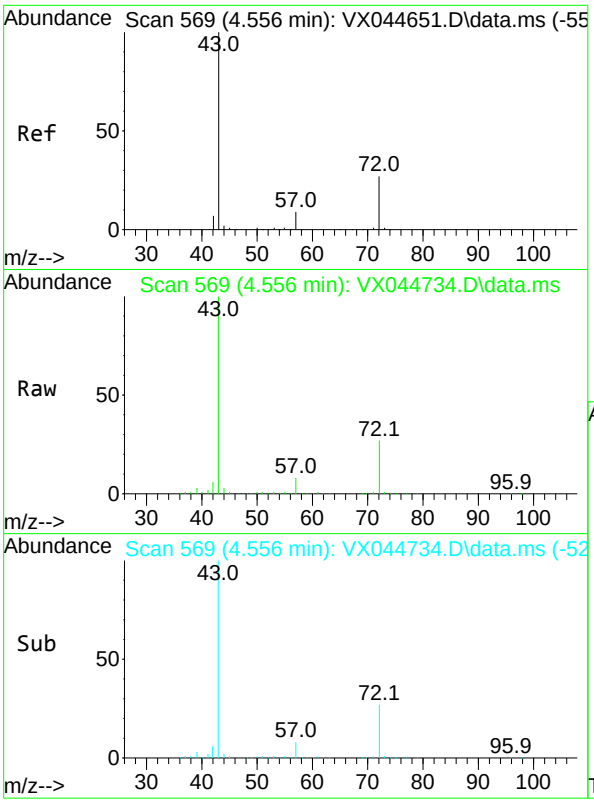




#24
1,1-Dichloroethane
Concen: 53.411 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 63 Resp: 217085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.6 | 10.9 |
| 100 | 4.5 | 2.5 | 7.5 |






#25
2-Butanone
Concen: 275.626 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 42326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.0 | 21.7 | 32.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

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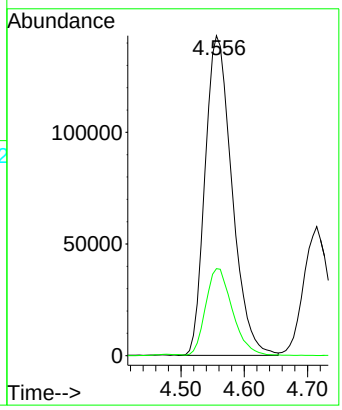
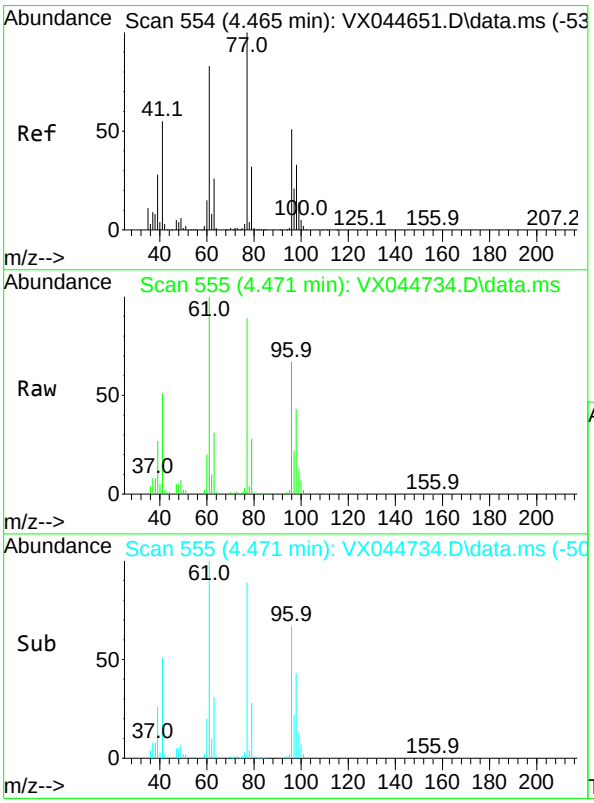
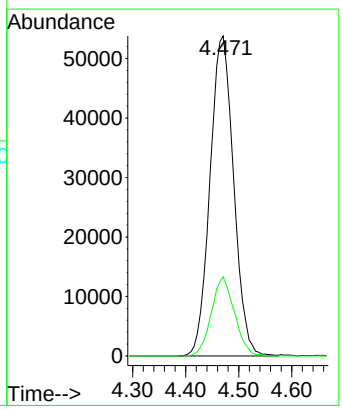


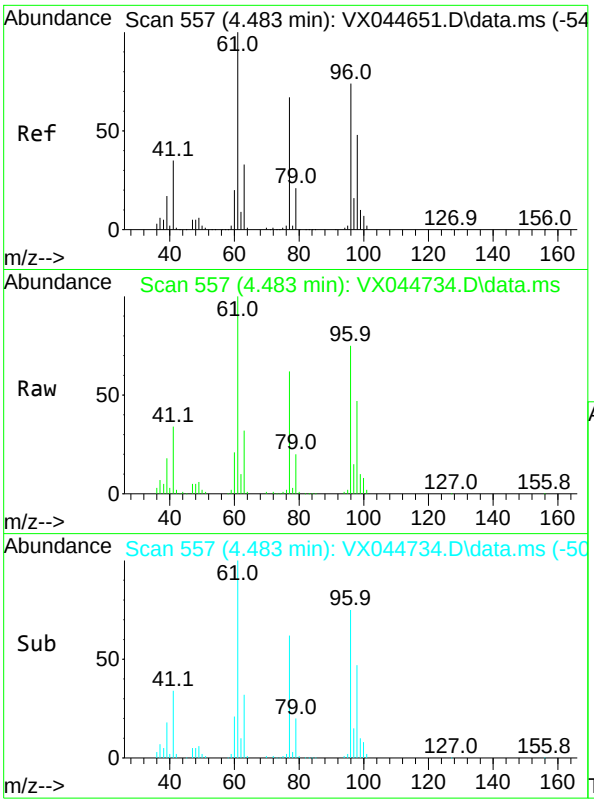




#26
2,2-Dichloropropane
Concen: 42.282 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 77 Resp: 166555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.1 | 10.9 | 32.6 |

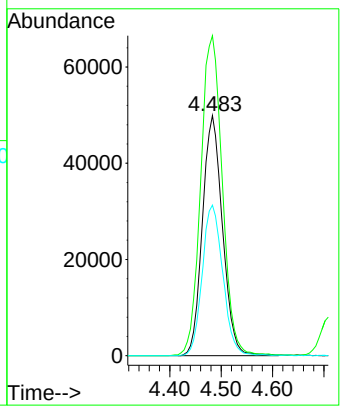





#27
cis-1,2-Dichloroethene
Concen: 50.998 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 96 Resp: 13562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.5 | 0.0 | 296.0 |
| 98 | 64.0 | 0.0 | 130.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

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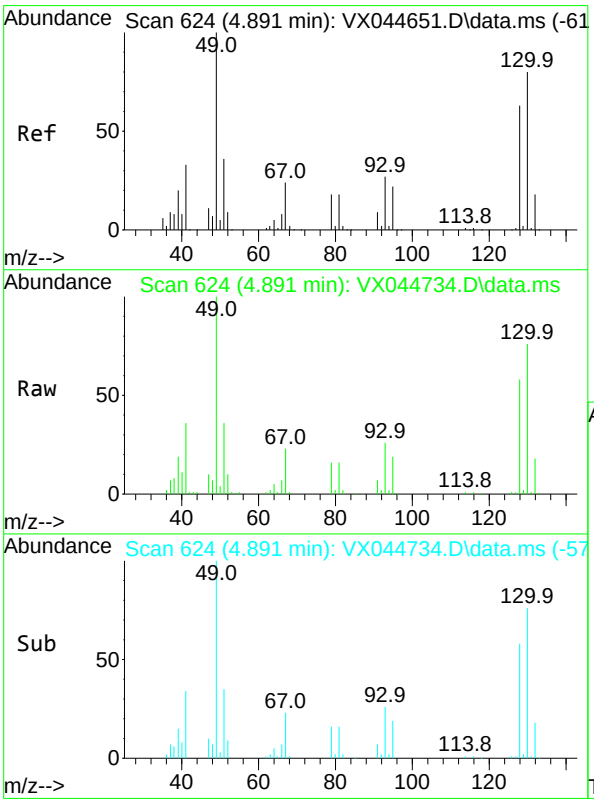
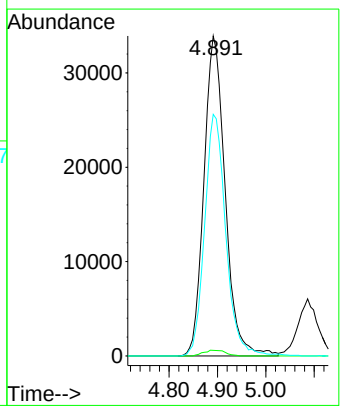
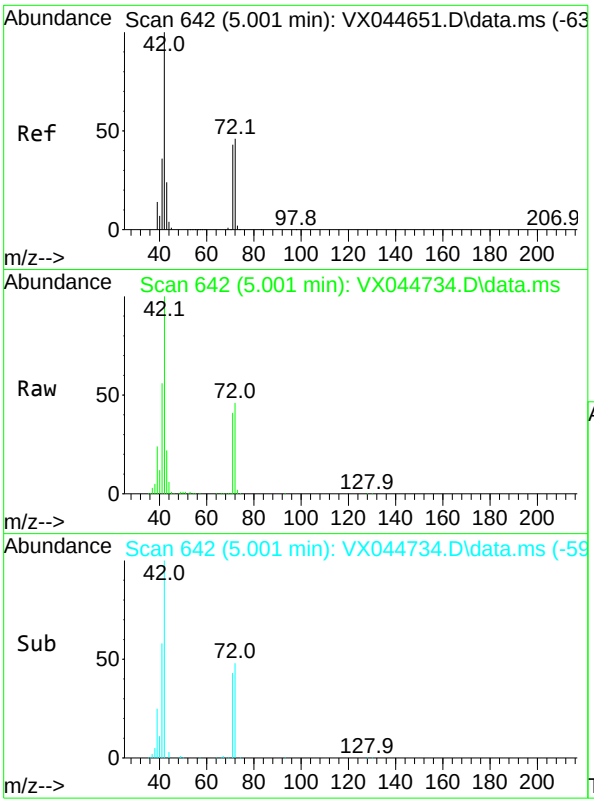



#28
Bromochloromethane
Concen: 54.405 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 49 Resp: 103327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 4.4 |
| 130 | 75.1 | 63.4 | 95.2 |






#29
Tetrahydrofuran
Concen: 279.917 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 42 Resp: 27726

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.0 | 38.2 | 57.4 |
| 71 | 42.1 | 35.3 | 52.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

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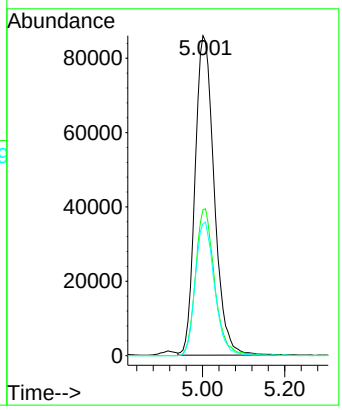
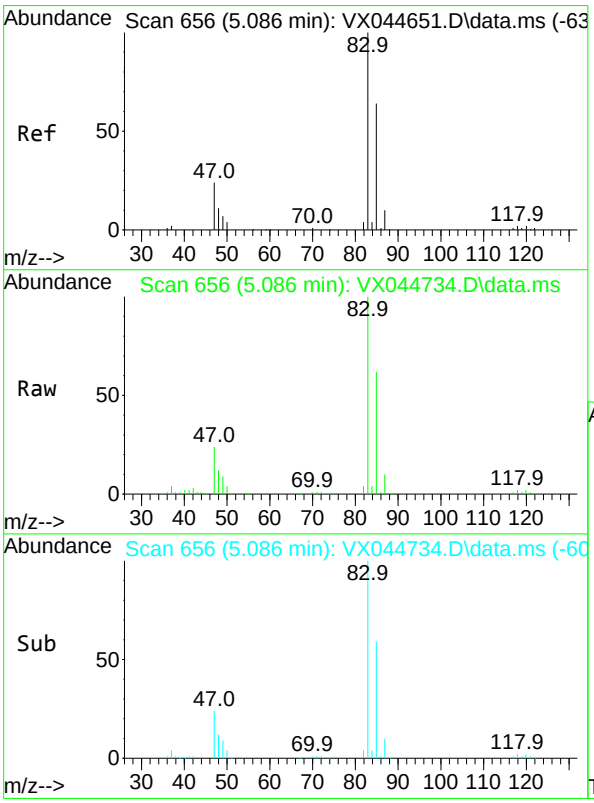
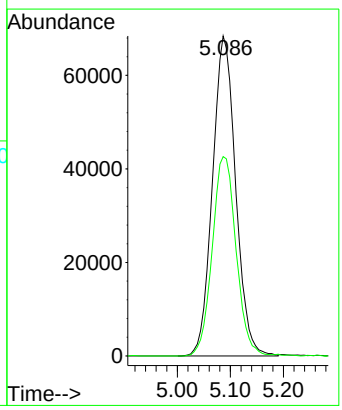


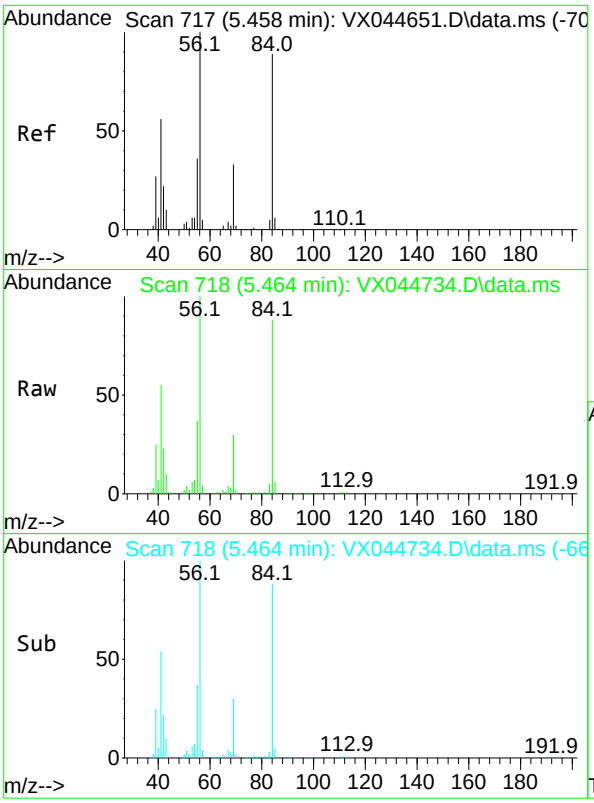




#30
Chloroform
Concen: 50.629 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 83 Resp: 207669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.3 | 51.2 | 76.8 |

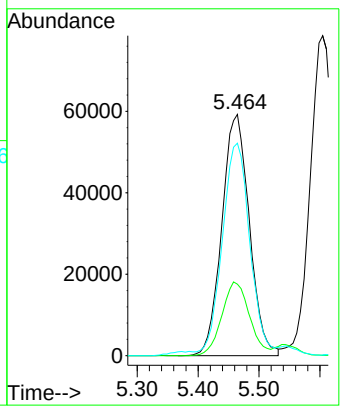





#31
Cyclohexane
Concen: 56.510 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 56 Resp: 18576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 29.6 | 26.8 | 40.2 |
| 84 | 86.4 | 71.0 | 106.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

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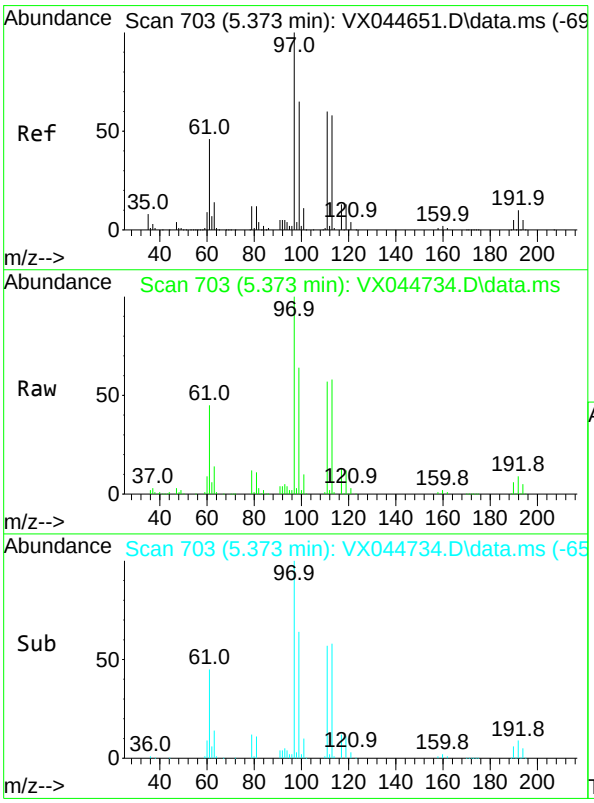
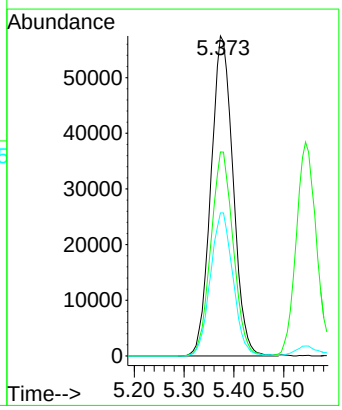
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

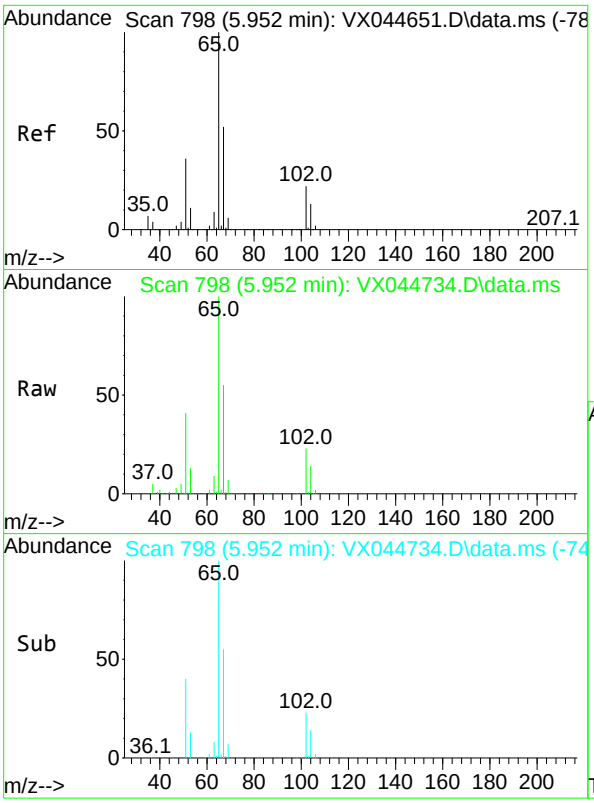



#32
1,1,1-Trichloroethane
Concen: 47.142 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 97 Resp: 177763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 51.6 | 77.4 |
| 61 | 45.6 | 35.6 | 53.4 |

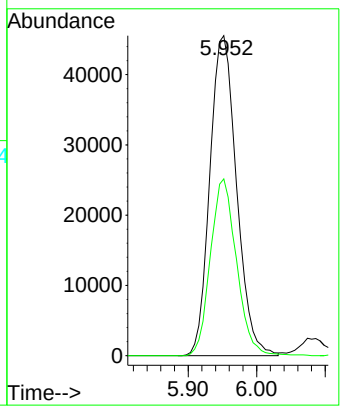





#33
1,2-Dichloroethane-d4
Concen: 47.199 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 65 Resp: 12321

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 103.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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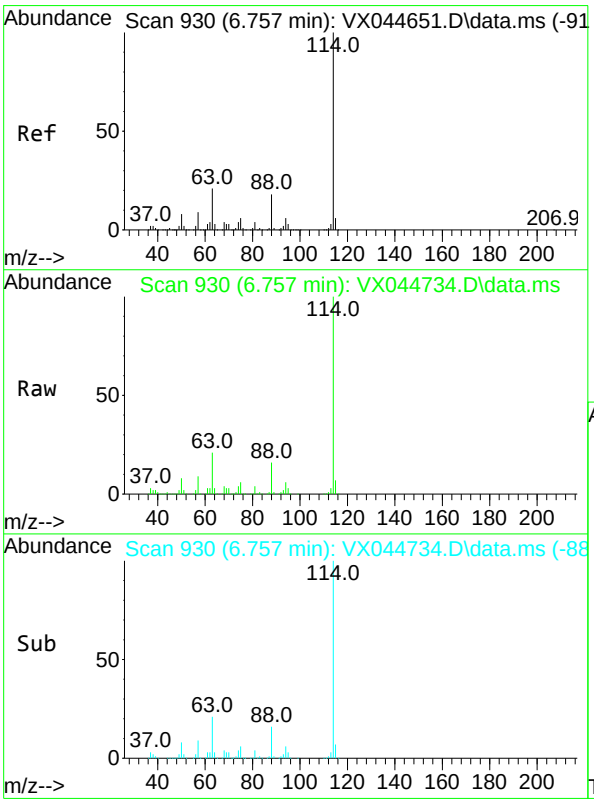
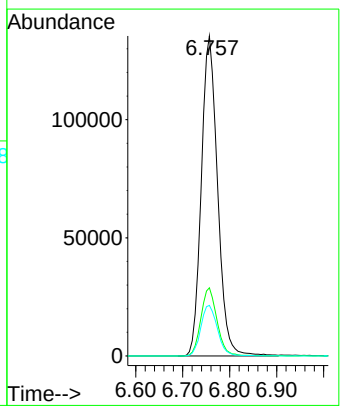
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

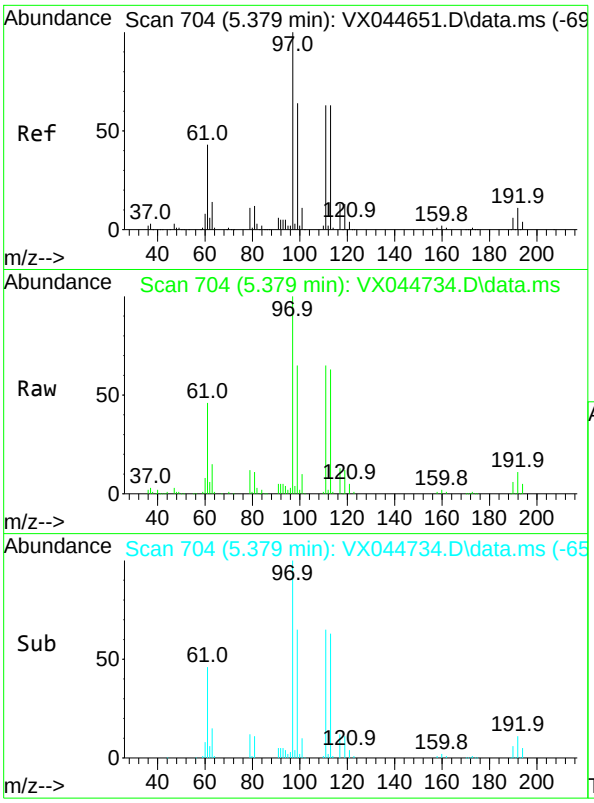



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:114 Resp: 325756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.3 | 0.0 | 43.0 |
| 88 | 15.8 | 0.0 | 35.4 |

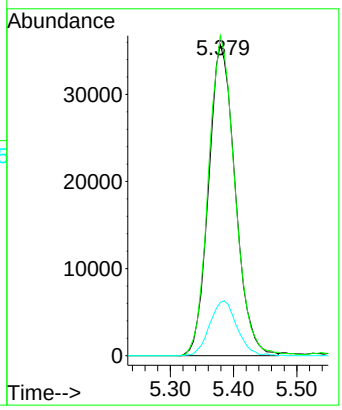





#35
Dibromofluoromethane
Concen: 50.447 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:113 Resp: 10440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 81.6 | 122.4 |
| 192 | 18.0 | 14.4 | 21.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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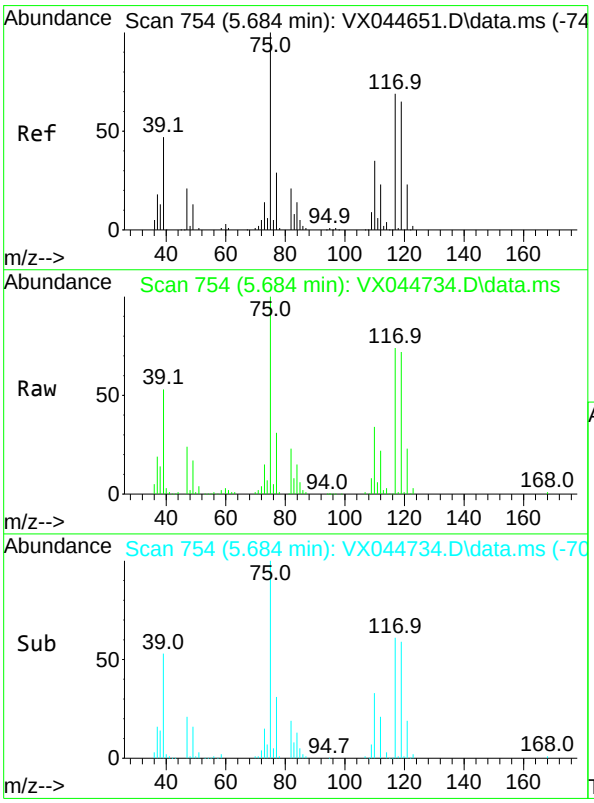
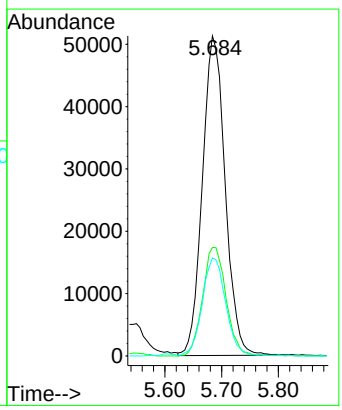
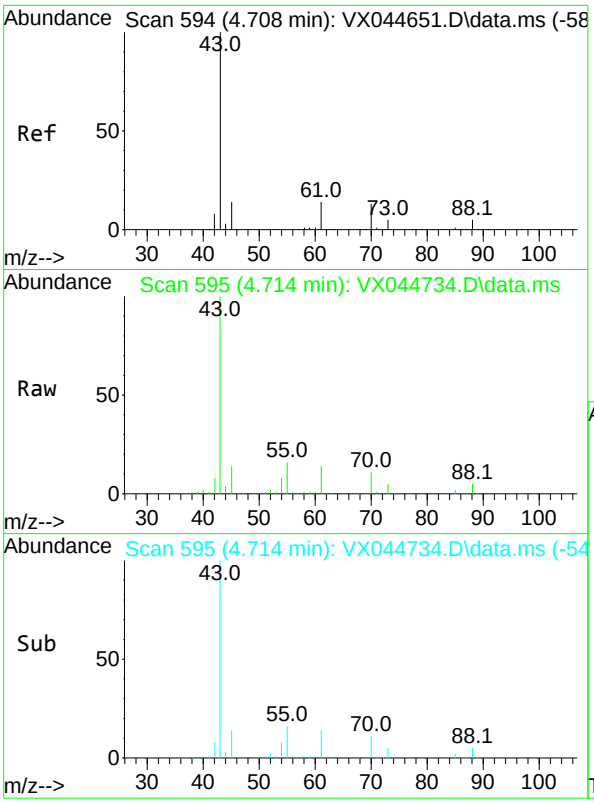



#36
1,1-Dichloropropene
Concen: 49.591 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 75 Resp: 142861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.1 | 17.9 | 53.8 |
| 77 | 31.2 | 24.5 | 36.7 |

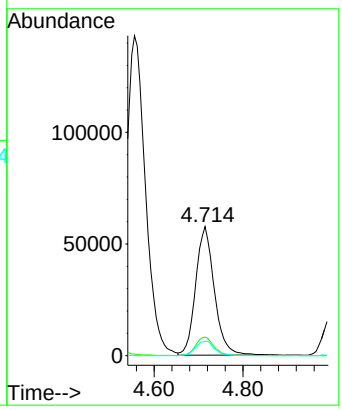





#37
Ethyl Acetate
Concen: 54.798 ug/l
RT: 4.714 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 16810

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 10.9 | 16.3 |
| 70 | 11.5 | 10.1 | 15.1 |




**Instrument :**
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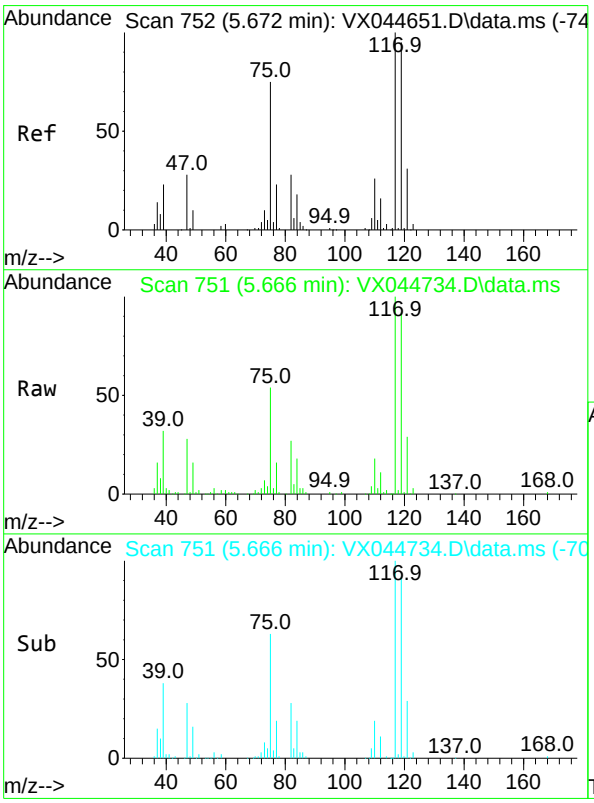
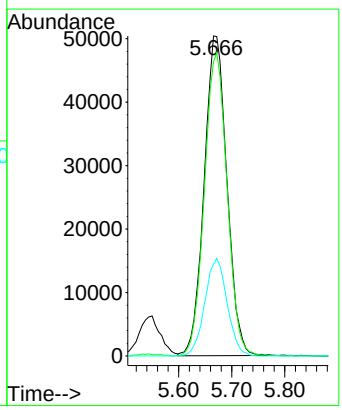
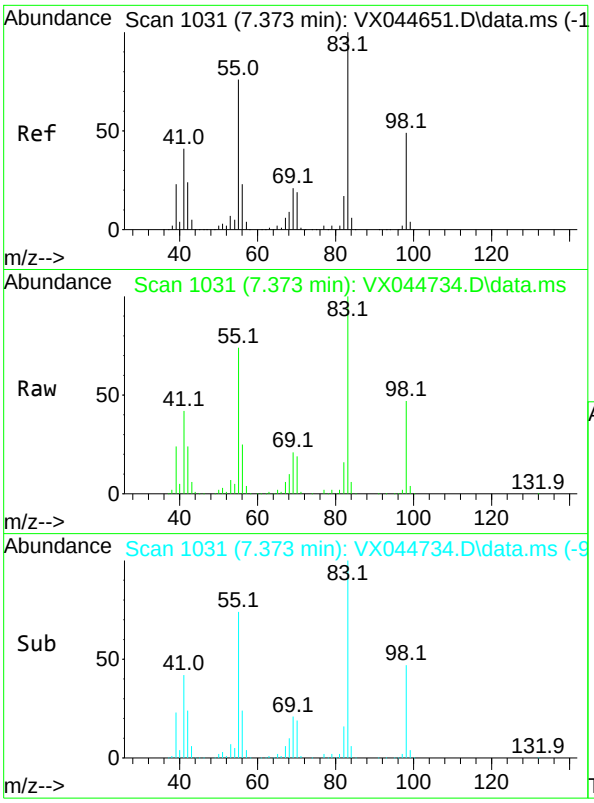



#38
Carbon Tetrachloride
Concen: 46.468 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:117 Resp: 150574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.0 | 76.0 | 114.0 |
| 121 | 28.7 | 24.6 | 36.8 |






#39
Methylcyclohexane
Concen: 50.118 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 83 Resp: 19166

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 74.5 | 60.5 | 90.7 |
| 98 | 47.2 | 39.0 | 58.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

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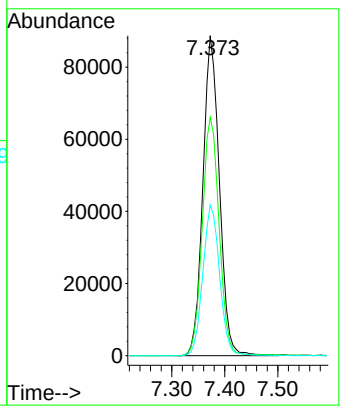
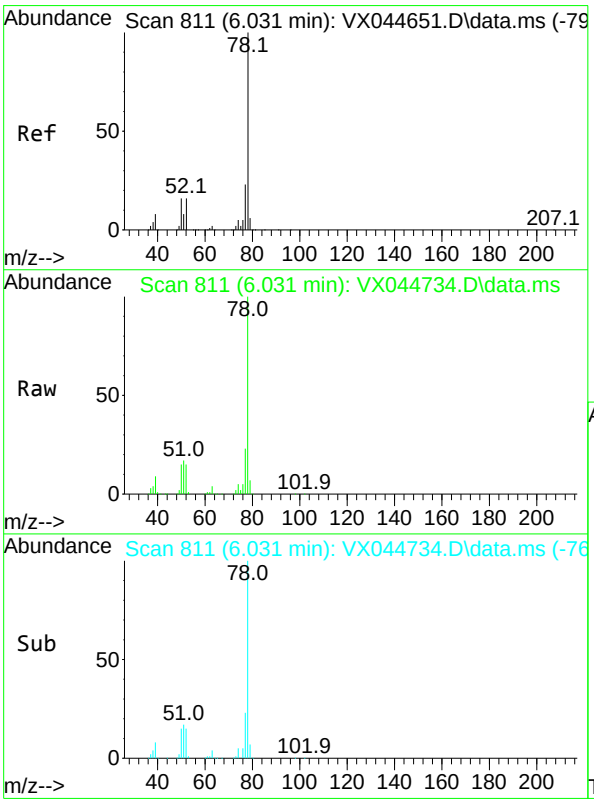
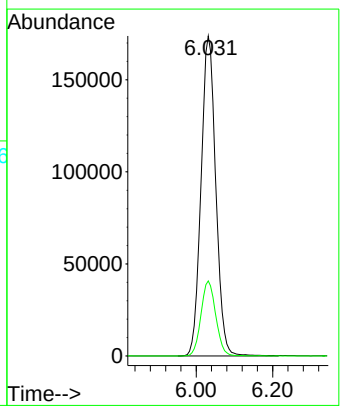


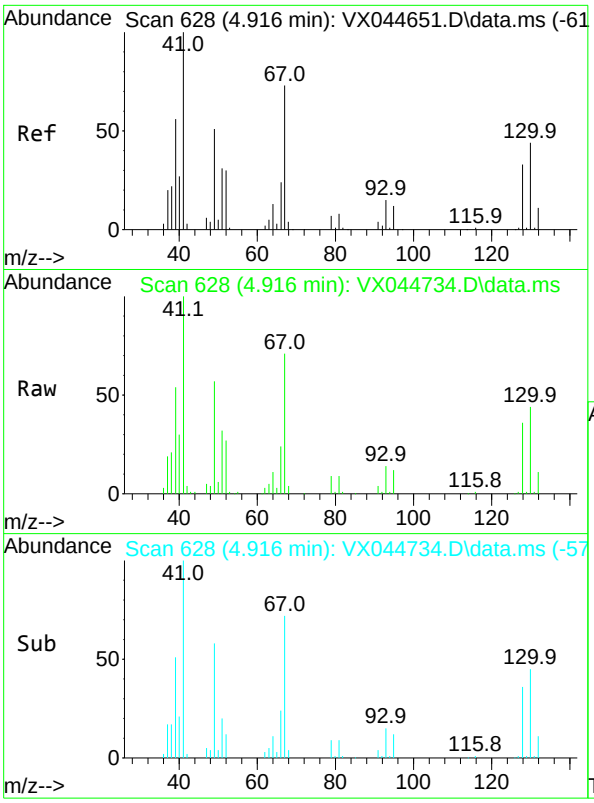




#40
Benzene
Concen: 52.035 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 78 Resp: 464502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 18.7 | 28.1 |

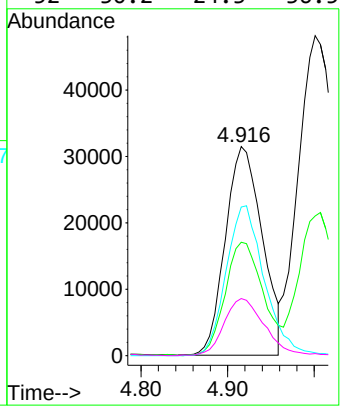





#41
Methacrylonitrile
Concen: 52.088 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 41 Resp: 9311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.0 | 44.4 | 66.6 |
| 67 | 74.6 | 60.6 | 90.8 |
| 52 | 30.2 | 24.3 | 36.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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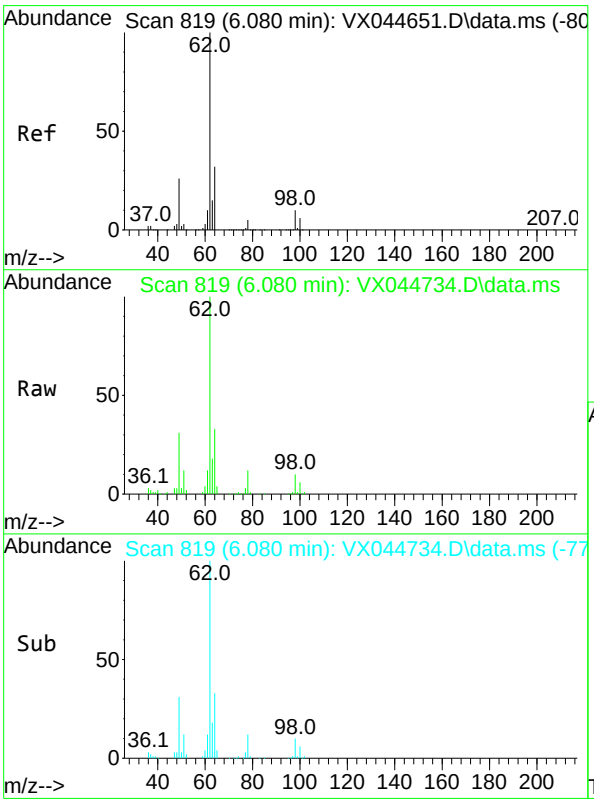
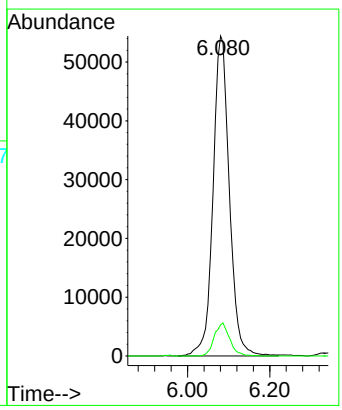
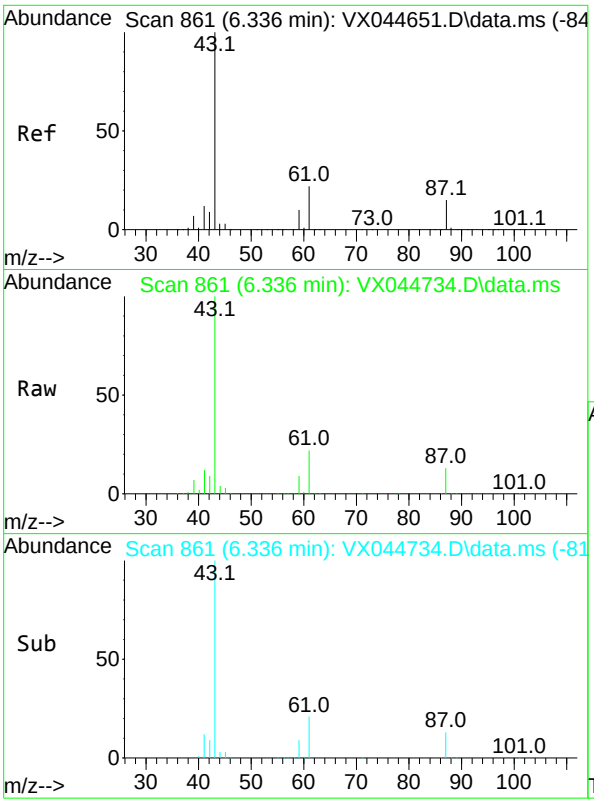



#42
1,2-Dichloroethane
Concen: 46.037 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 62 Resp: 149994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 19.4 |

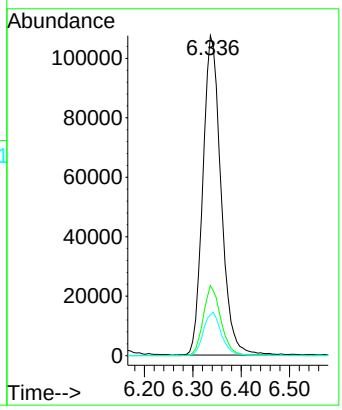





#43
Isopropyl Acetate
Concen: 49.636 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 28012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.4 | 16.6 | 24.8 |
| 87 | 13.5 | 11.0 | 16.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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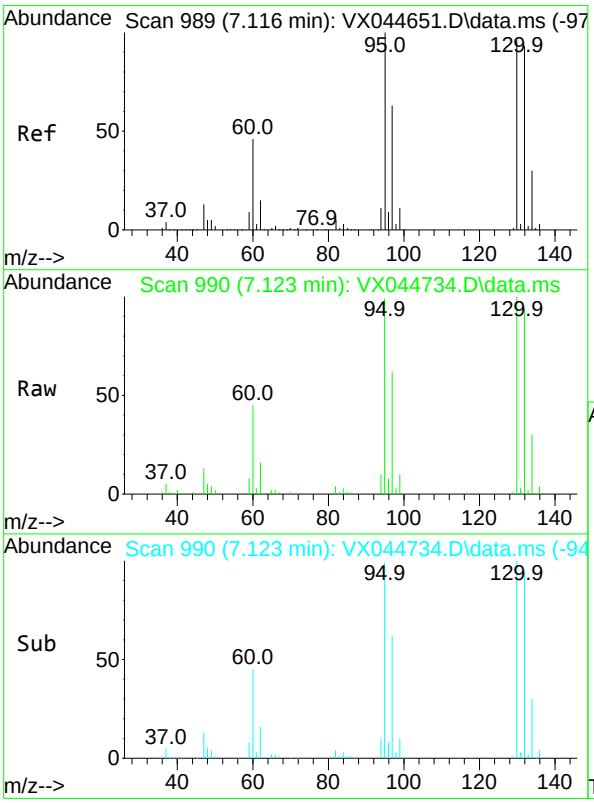
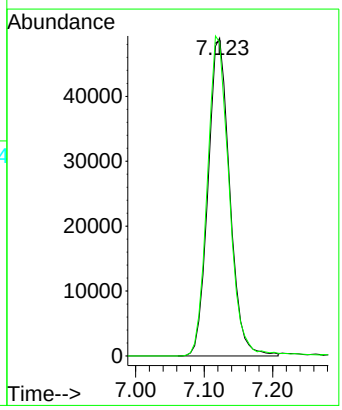
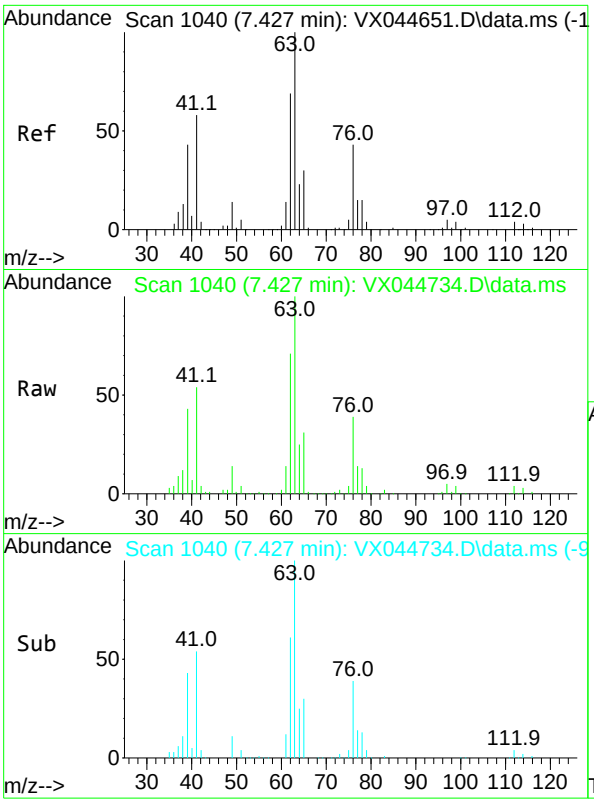



#44
Trichloroethene
Concen: 49.981 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:130 Resp: 107262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.7 | 0.0 | 208.2 |

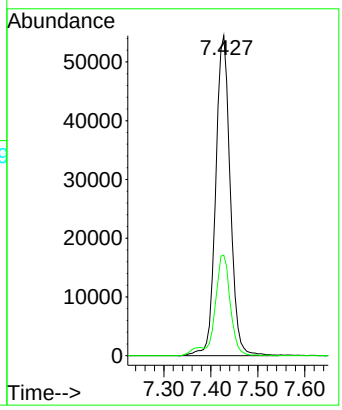





#45
1,2-Dichloropropane
Concen: 52.217 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 63 Resp: 11733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 24.2 | 36.2 |




**Instrument :**
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VSTDCCC050EC

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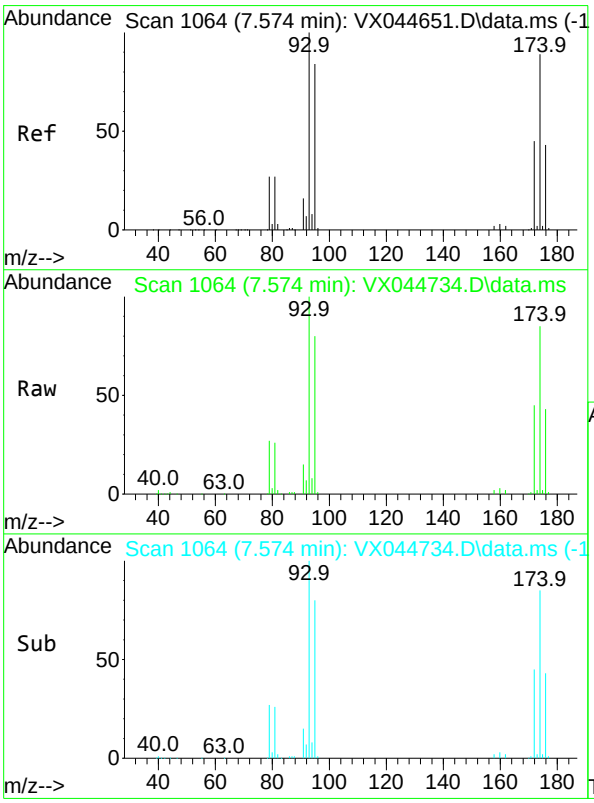
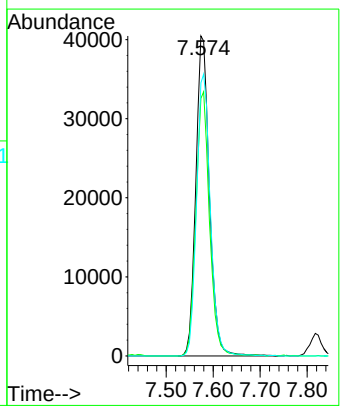
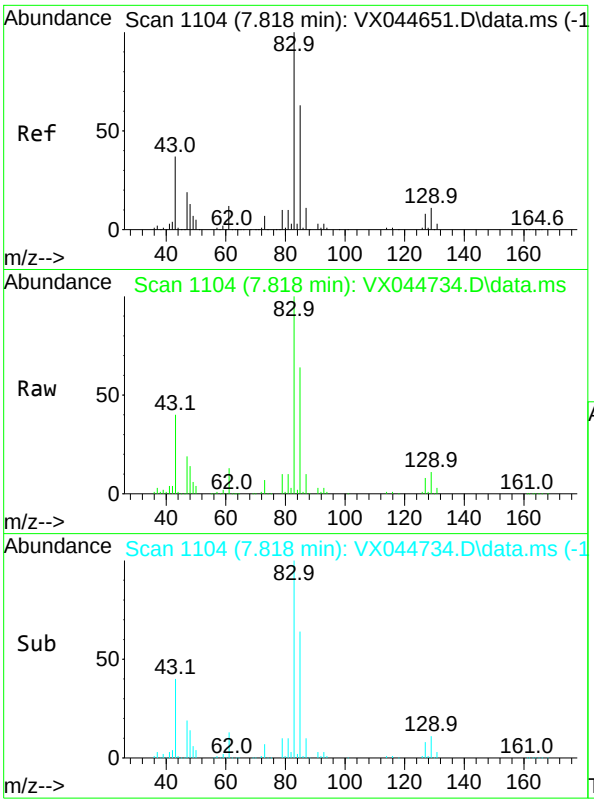



#46
Dibromomethane
Concen: 47.970 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 93 Resp: 82056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.2 | 66.4 | 99.6 |
| 174 | 89.0 | 72.0 | 108.0 |

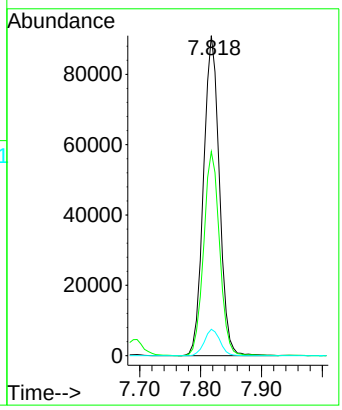





#47
Bromodichloromethane
Concen: 46.892 ug/l
RT: 7.818 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 83 Resp: 16449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 50.1 | 75.1 |
| 127 | 8.2 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
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VSTDCCC050EC

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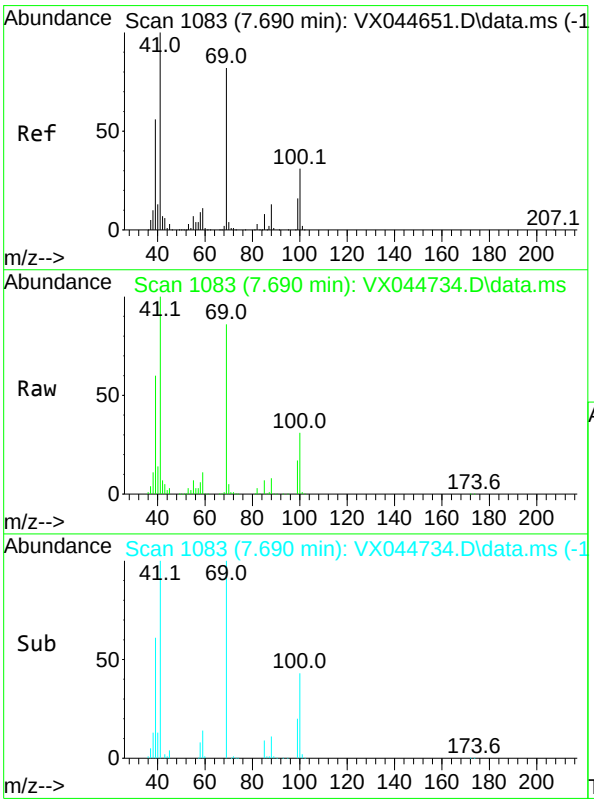
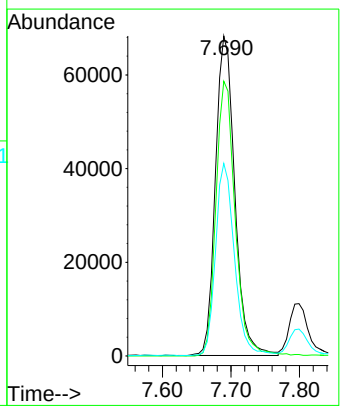
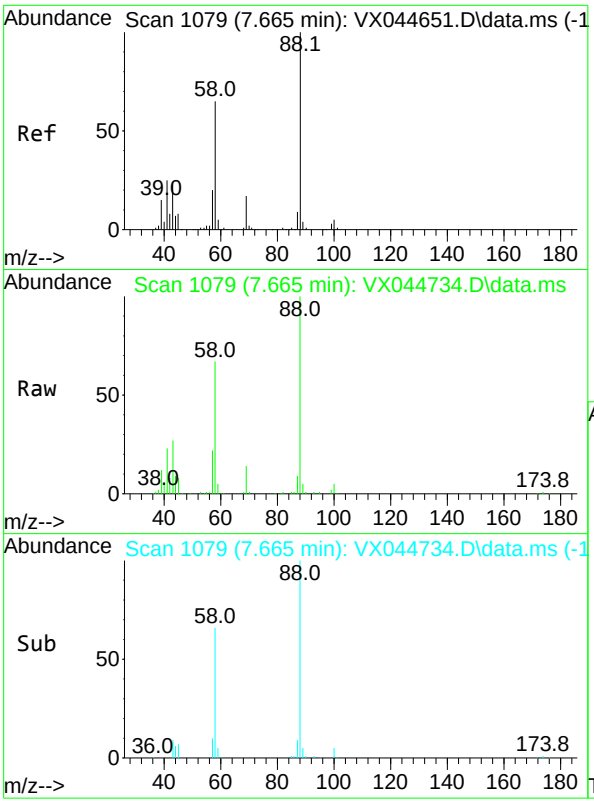



#48
Methyl methacrylate
Concen: 51.021 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 41 Resp: 133656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 85.5 | 66.8 | 100.2 |
| 39 | 58.5 | 47.4 | 71.0 |

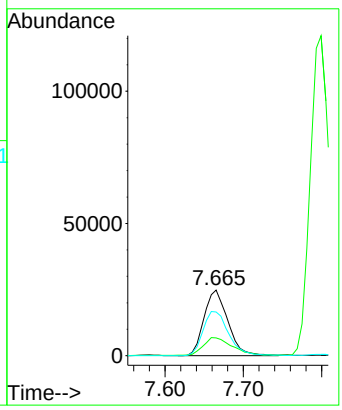





#49
1,4-Dioxane
Concen: 958.191 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 88 Resp: 5237

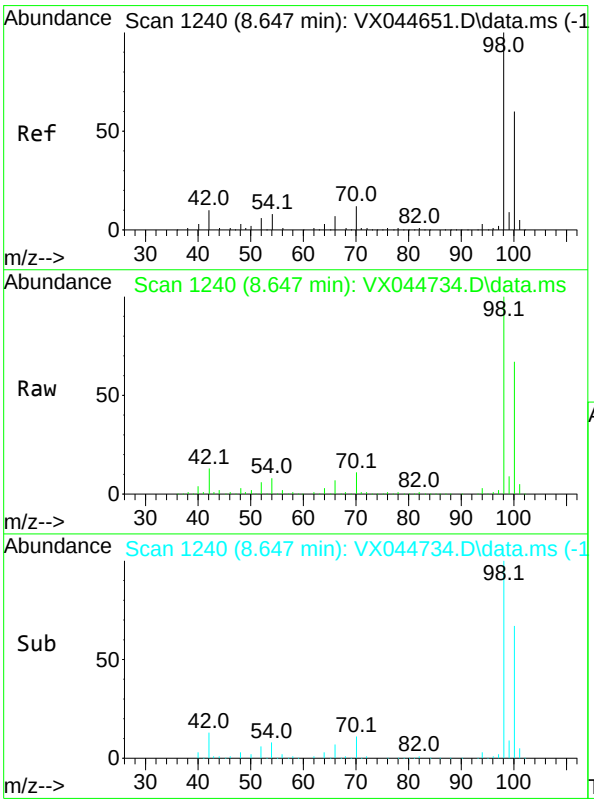
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.8 | 27.0 | 40.4 |
| 58 | 72.4 | 55.8 | 83.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

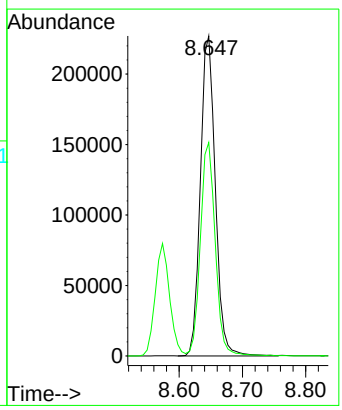
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

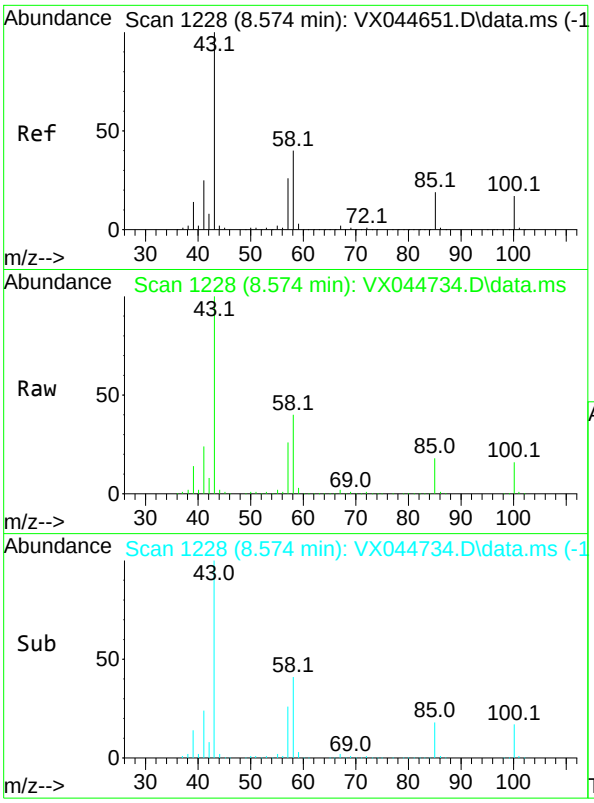



#50
Toluene-d8
Concen: 51.838 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 98 Resp: 374057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.3 | 53.2 | 79.8 |






#51
4-Methyl-2-Pentanone
Concen: 258.036 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 80476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.6 | 31.9 | 47.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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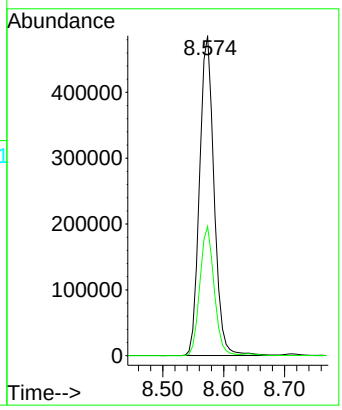
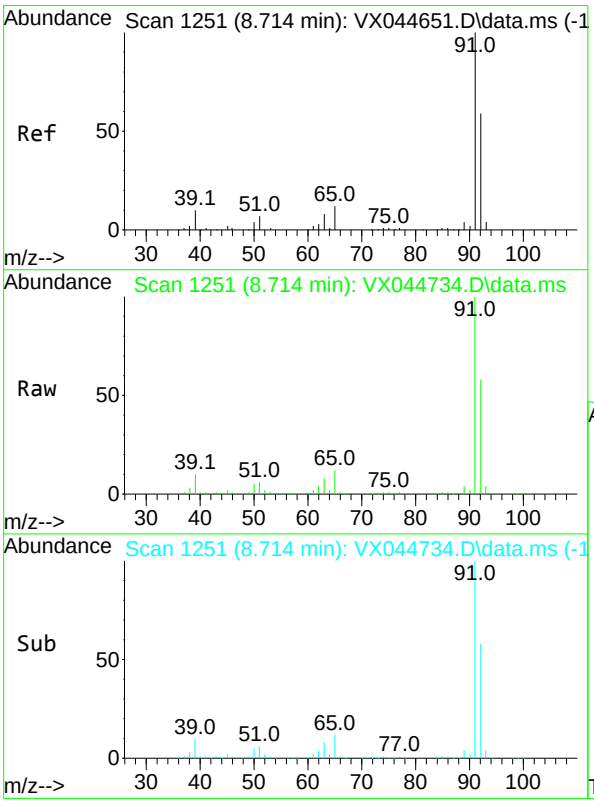
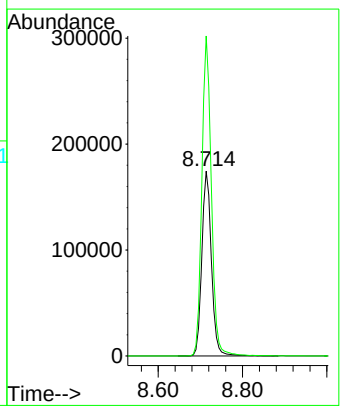


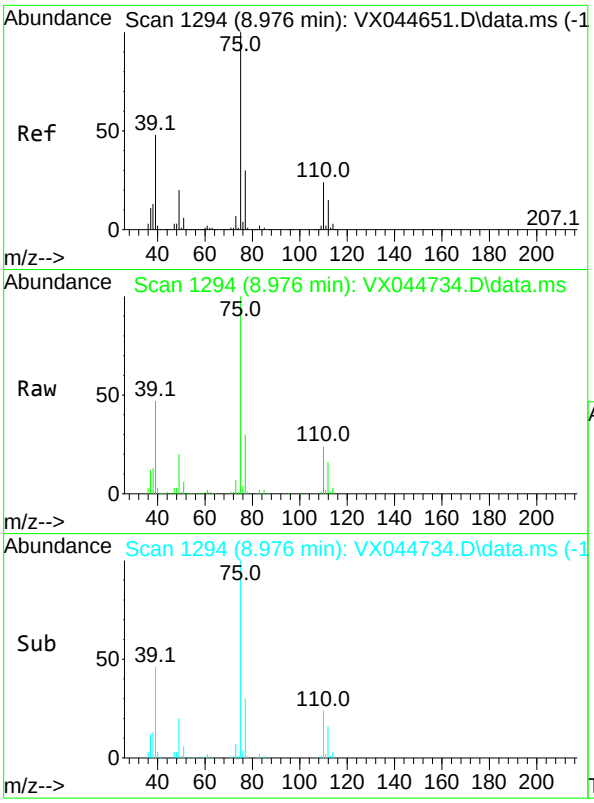




#52
Toluene
Concen: 50.481 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 92 Resp: 275818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 135.7 | 203.5 |

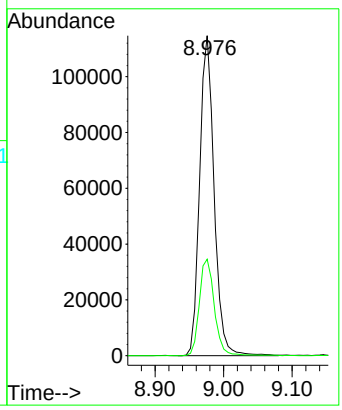





#53
t-1,3-Dichloropropene
Concen: 46.558 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 75 Resp: 16874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.1 | 24.4 | 36.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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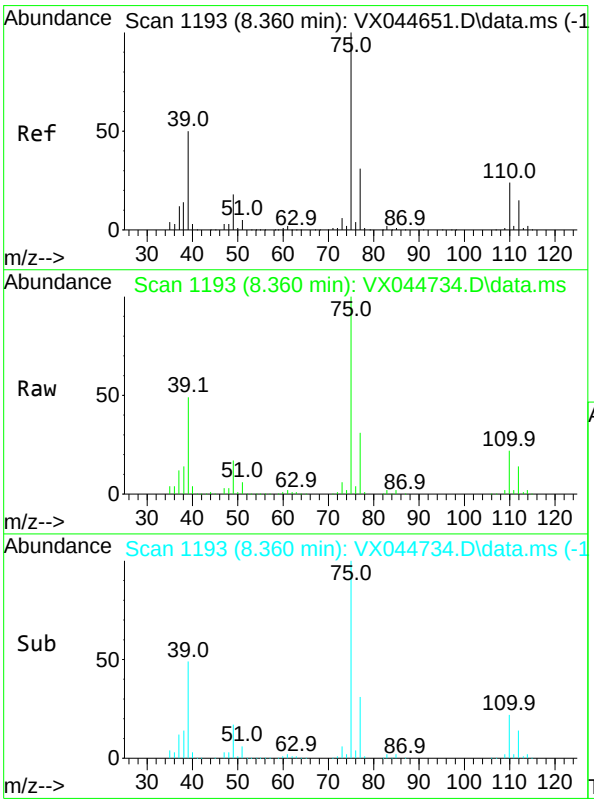
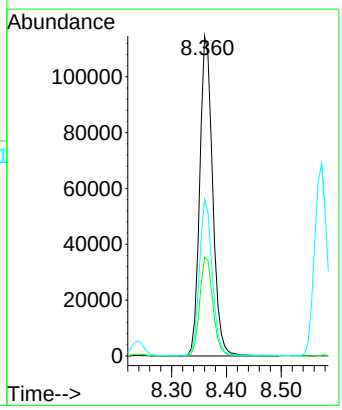
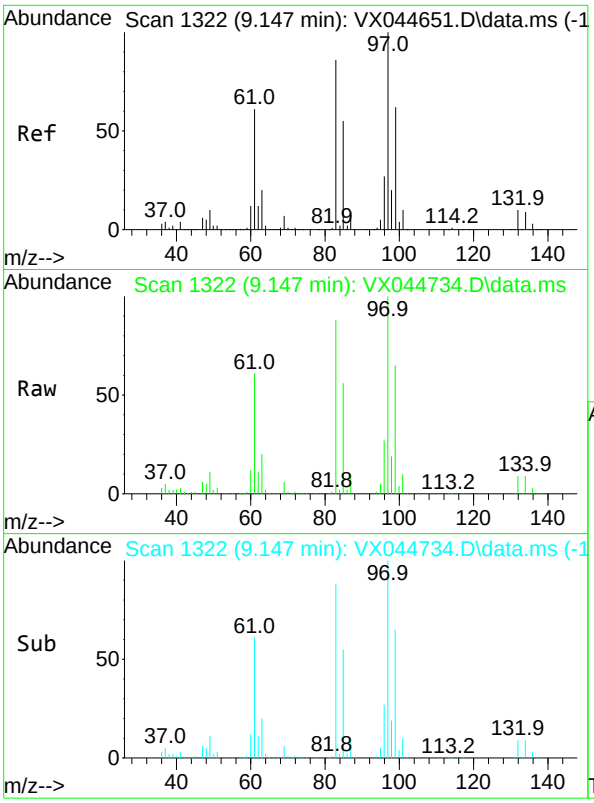



#54
cis-1,3-Dichloropropene
Concen: 47.685 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 75 Resp: 187397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 25.1 | 37.7 |
| 39 | 48.9 | 40.3 | 60.5 |

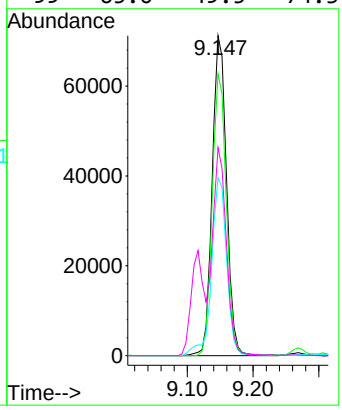





#55
1,1,2-Trichloroethane
Concen: 48.870 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 97 Resp: 10803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.0 | 68.8 | 103.2 |
| 85 | 55.6 | 43.7 | 65.5 |
| 99 | 65.0 | 49.5 | 74.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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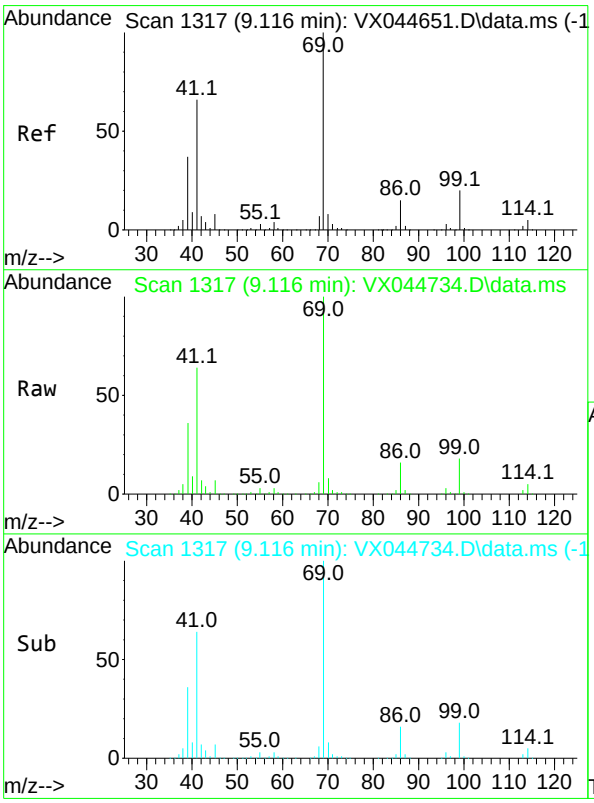
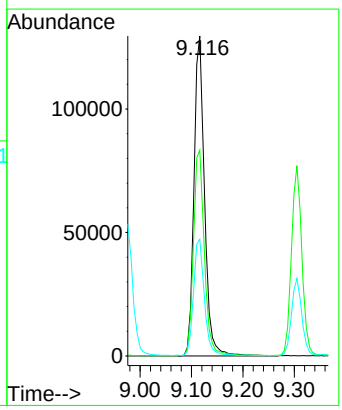
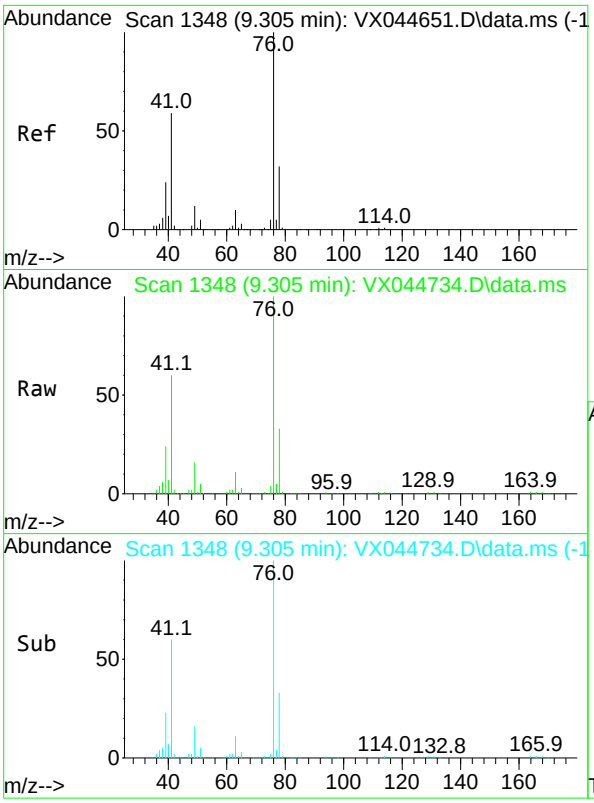



#56
Ethyl methacrylate
Concen: 48.786 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 69 Resp: 185430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.7 | 53.2 | 79.8 |
| 39 | 37.3 | 30.2 | 45.2 |

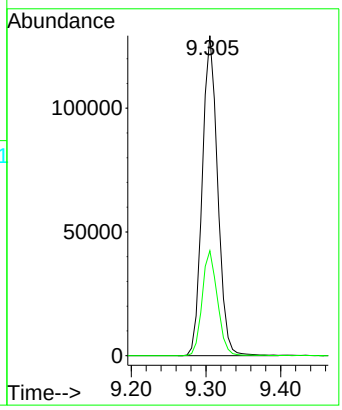





#57
1,3-Dichloropropane
Concen: 49.168 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 76 Resp: 18508

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 26.0 | 39.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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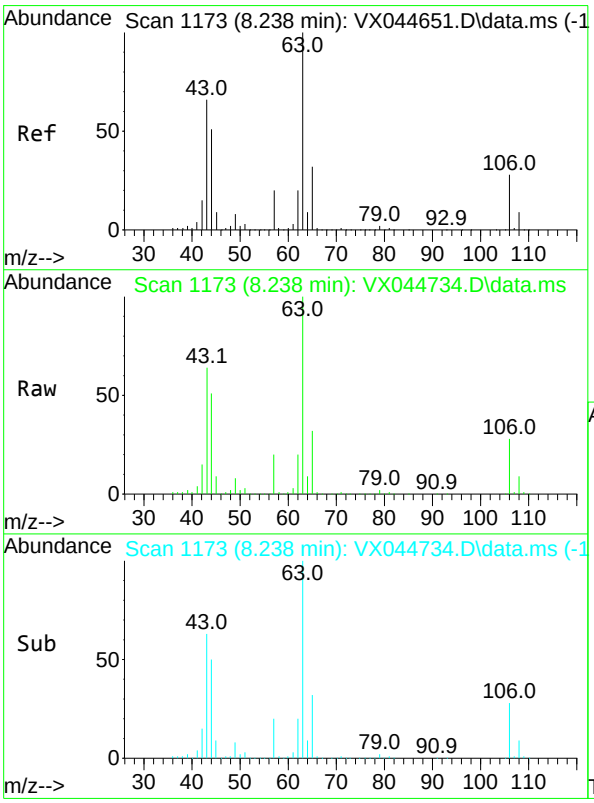
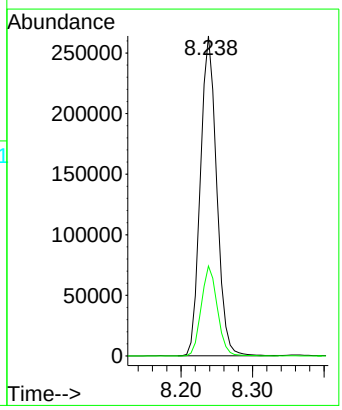
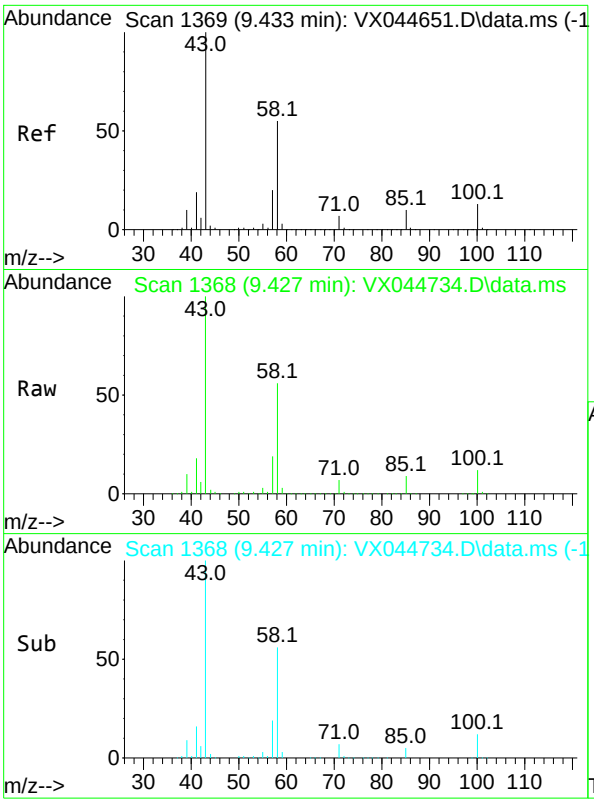



#58
2-Chloroethyl Vinyl ether
Concen: 223.982 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 63 Resp: 417955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.7 | 23.0 | 34.6 |






#59
2-Hexanone
Concen: 256.939 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 58954

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.8 | 27.8 | 83.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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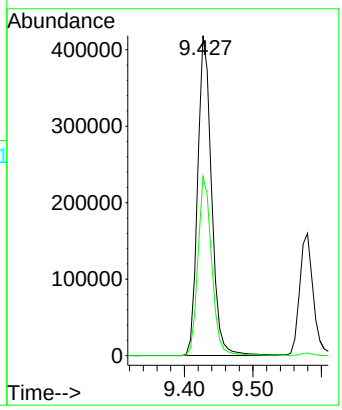
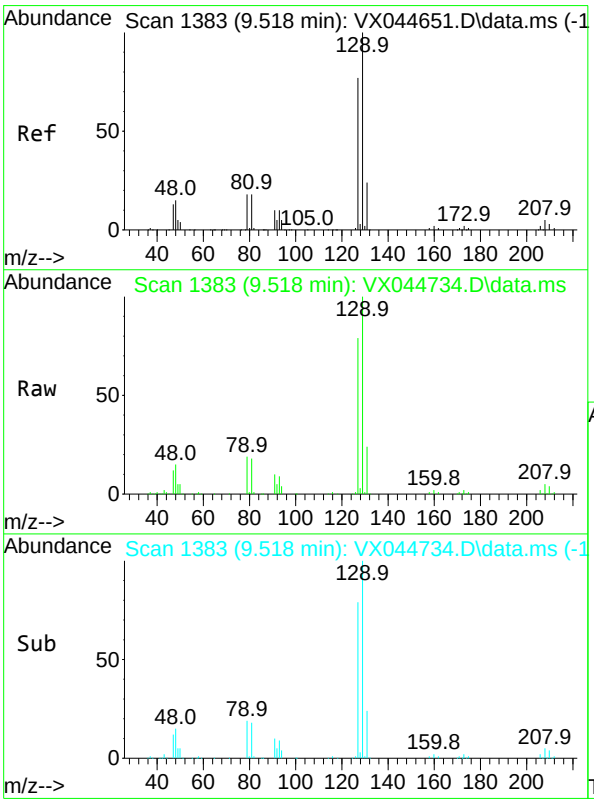
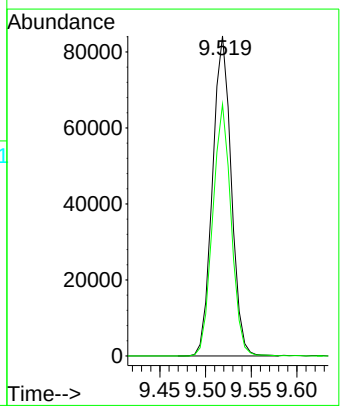


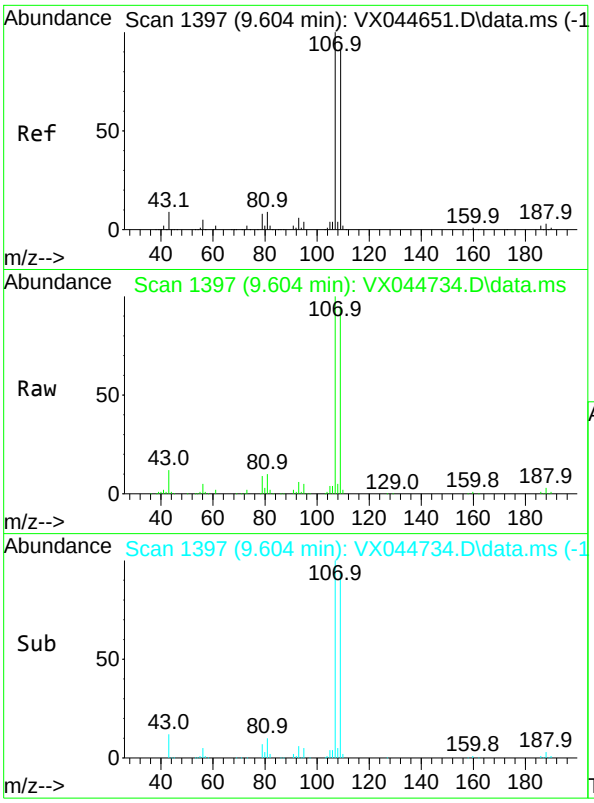




#60
Dibromochloromethane
Concen: 46.299 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:129 Resp: 120124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.4 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 47.644 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:107 Resp: 11037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.6 | 75.3 | 112.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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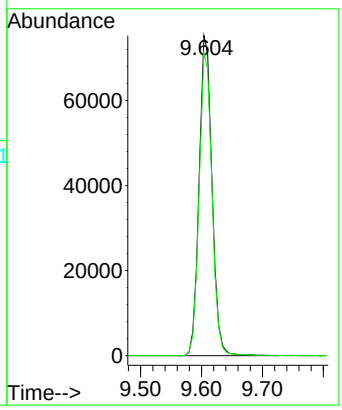
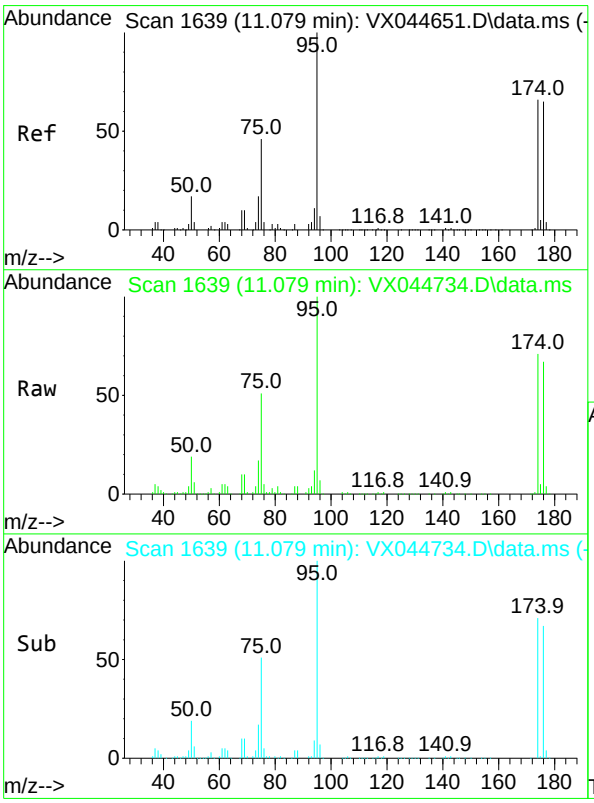
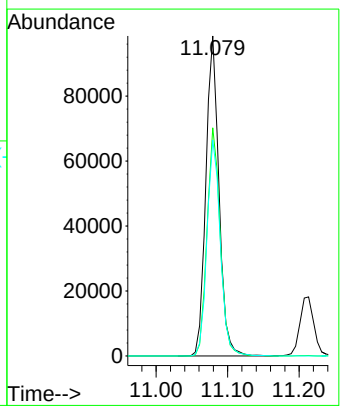


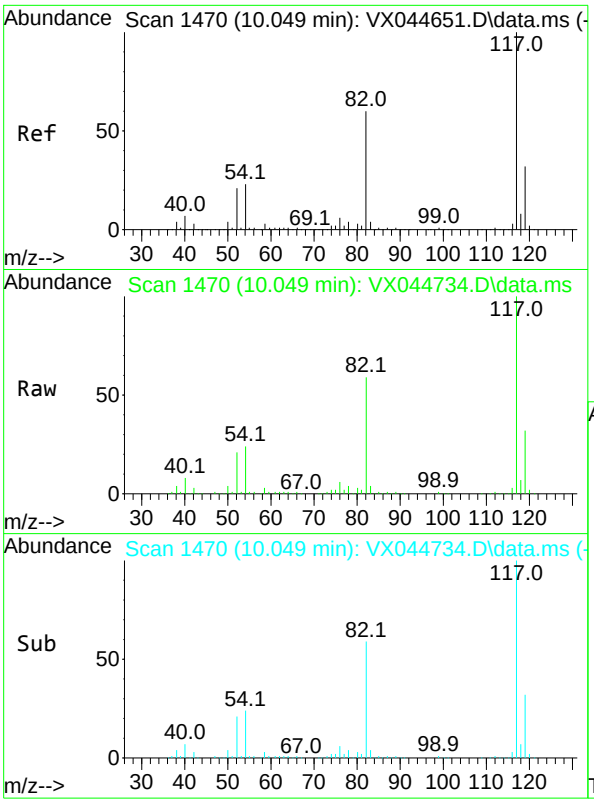




#62
4-Bromofluorobenzene
Concen: 46.714 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 95 Resp: 125660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 71.5 | 0.0 | 133.0 |
| 176 | 68.7 | 0.0 | 129.4 |

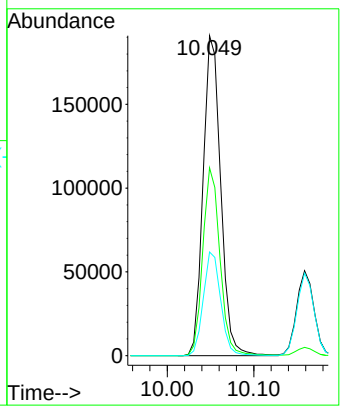





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:117 Resp: 26922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.7 | 47.6 | 71.4 |
| 119 | 32.4 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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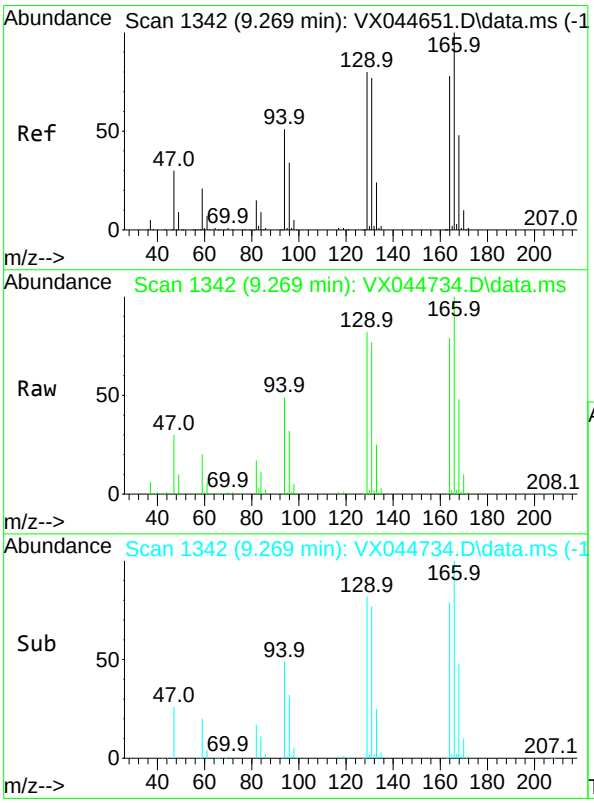
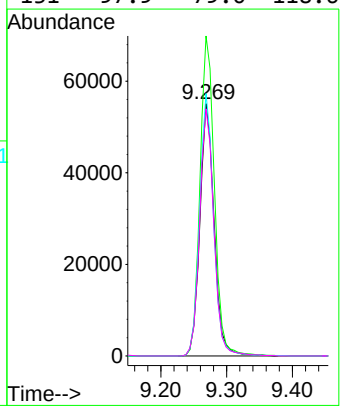
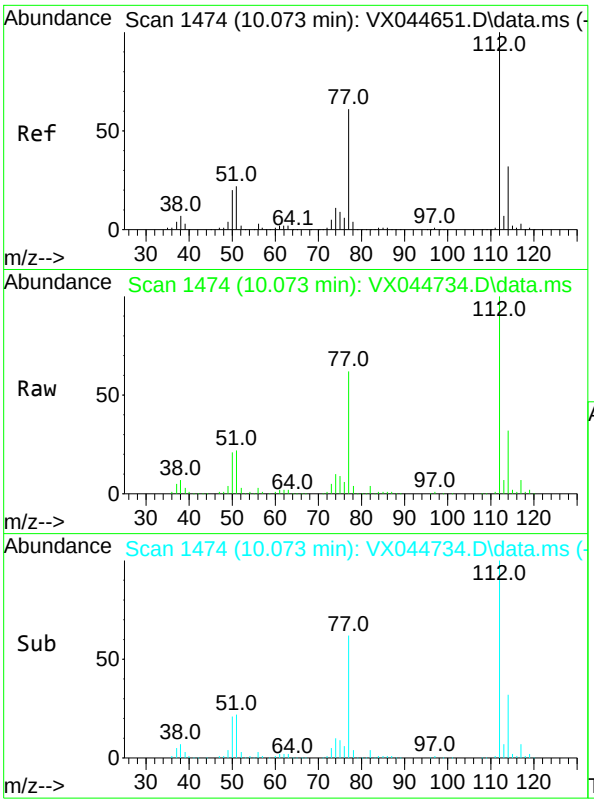



#64
Tetrachloroethene
Concen: 48.921 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:164 Resp: 82704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.8 | 102.0 | 153.0 |
| 129 | 104.0 | 81.1 | 121.7 |
| 131 | 97.9 | 79.0 | 118.6 |

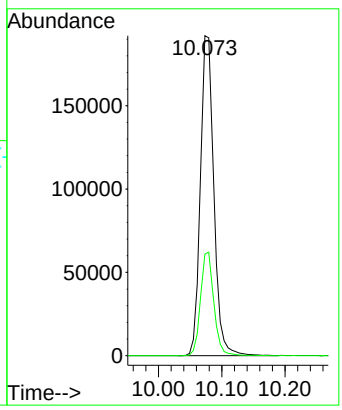





#65
Chlorobenzene
Concen: 49.886 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:112 Resp: 28527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 25.3 | 37.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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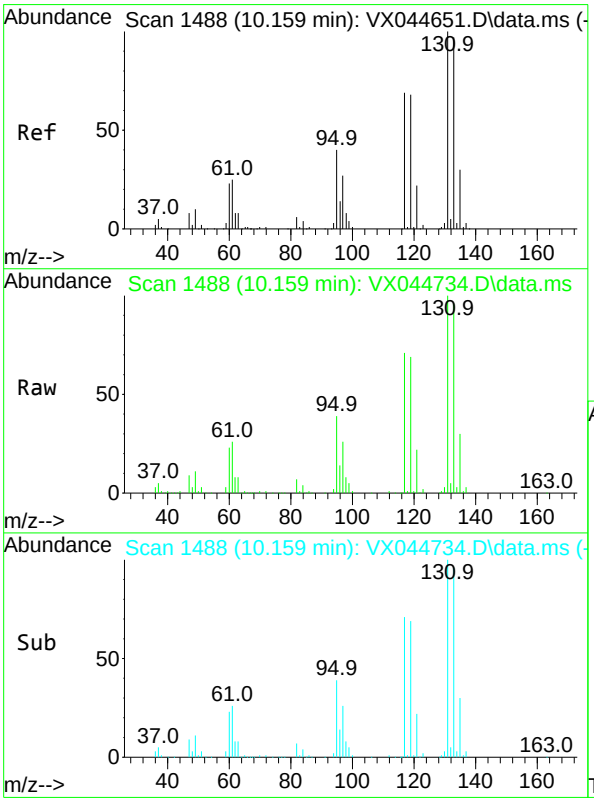
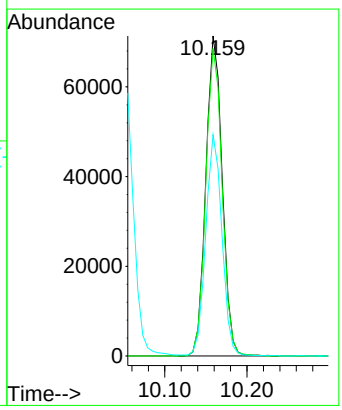
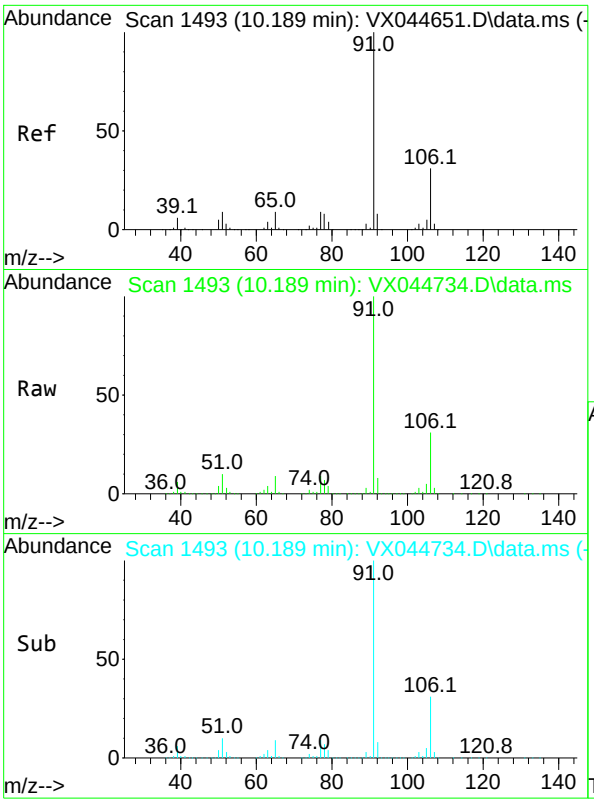



#66
1,1,1,2-Tetrachloroethane
Concen: 47.492 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:131 Resp: 98702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.0 | 47.8 | 143.3 |
| 119 | 68.7 | 33.4 | 100.2 |






#67
Ethyl Benzene
Concen: 50.924 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 91 Resp: 50812

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 25.0 | 37.6 |

**Instrument :**
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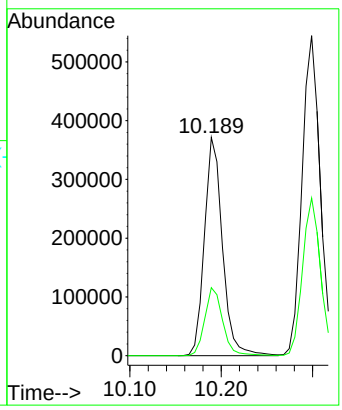
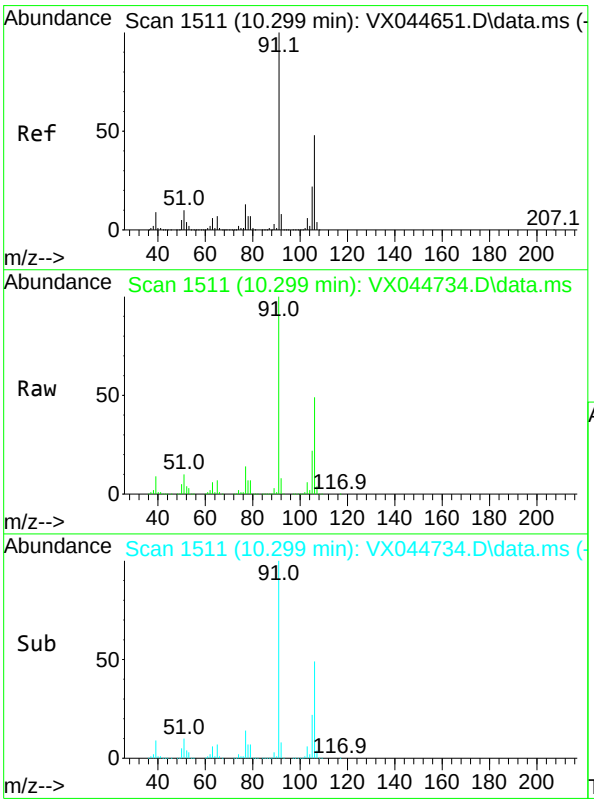
Supervised By :Mahesh Dadoda 01/28/2025

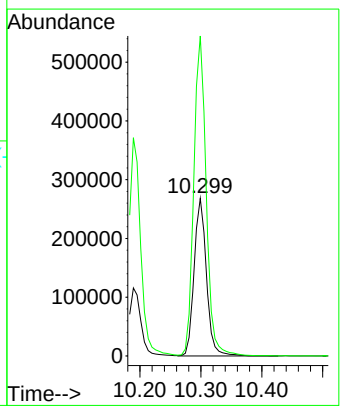


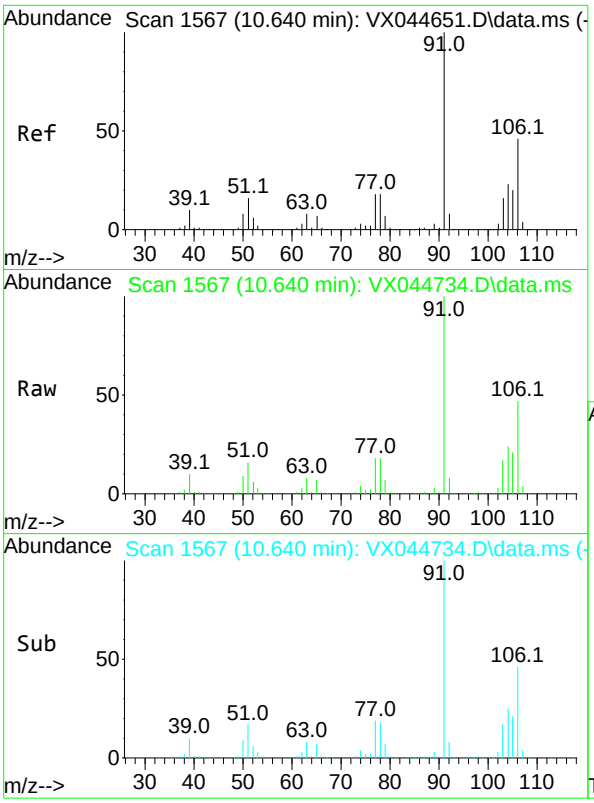




#68
m/p-Xylenes
Concen: 101.518 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:106 Resp: 375897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.5 | 166.4 | 249.6 |

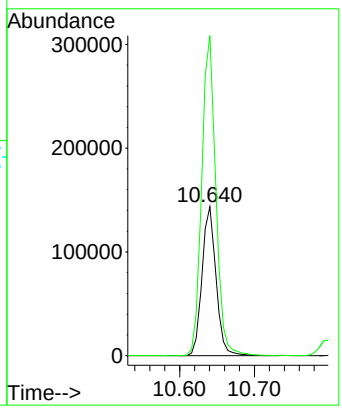





#69
o-Xylene
Concen: 49.864 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:106 Resp: 18672

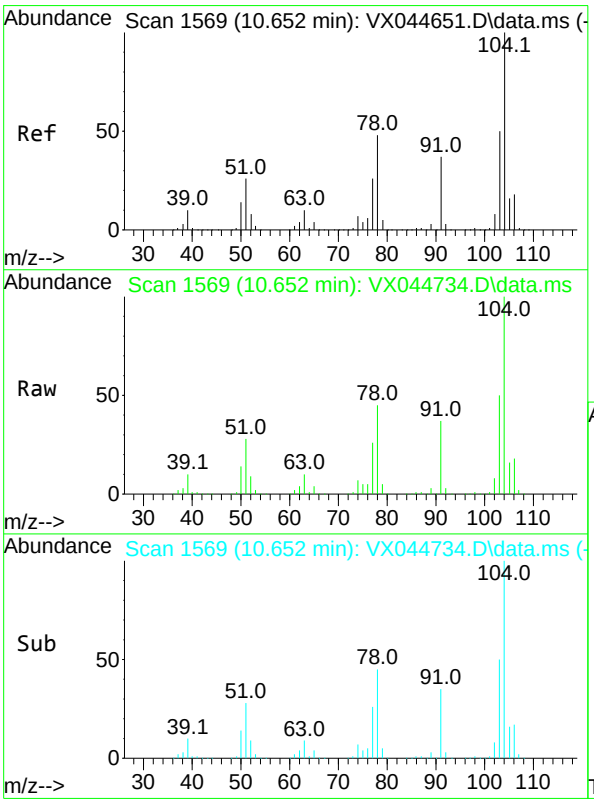
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.3 | 108.7 | 326.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

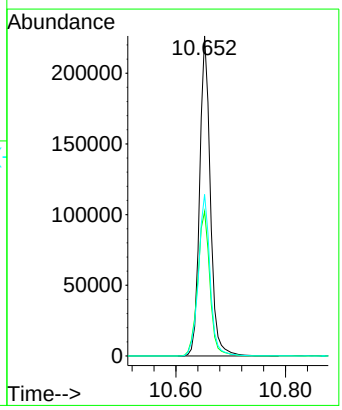
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

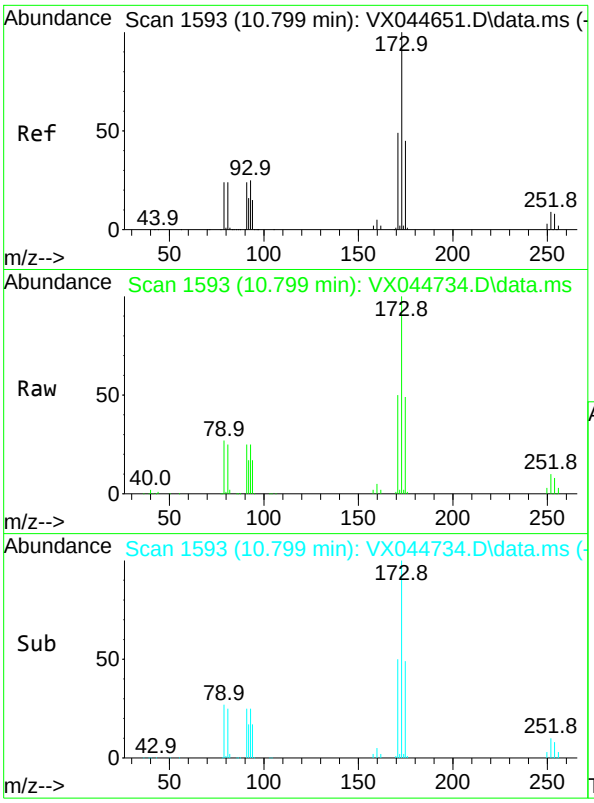



#70
Styrene
Concen: 50.666 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:104 Resp: 306315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.5 | 43.0 | 64.6 |
| 103 | 54.8 | 43.4 | 65.2 |

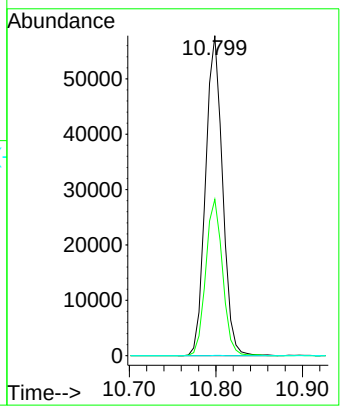





#71
Bromoform
Concen: 46.525 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:173 Resp: 7869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.3 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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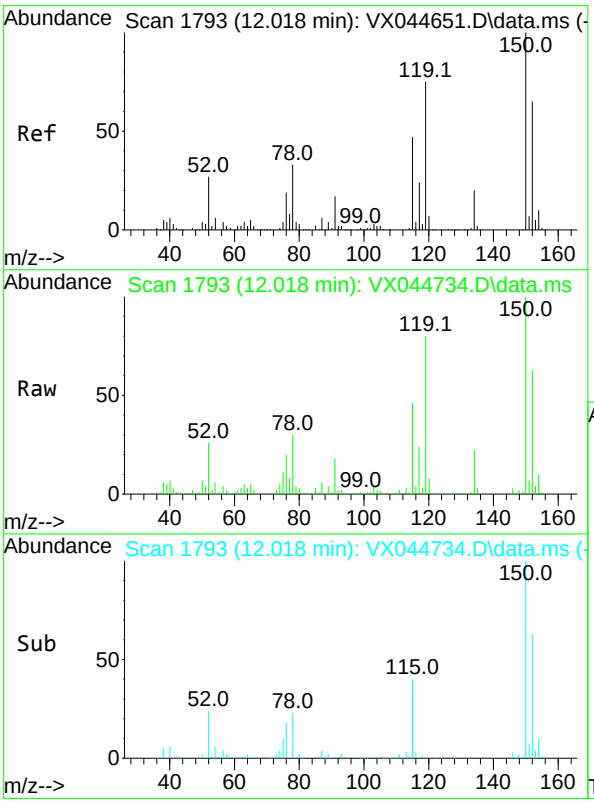
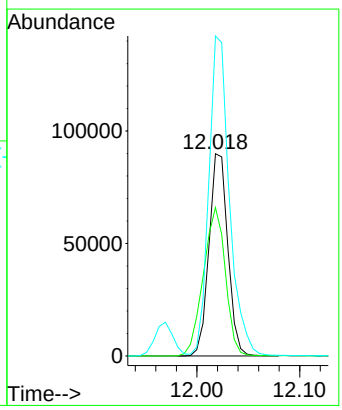
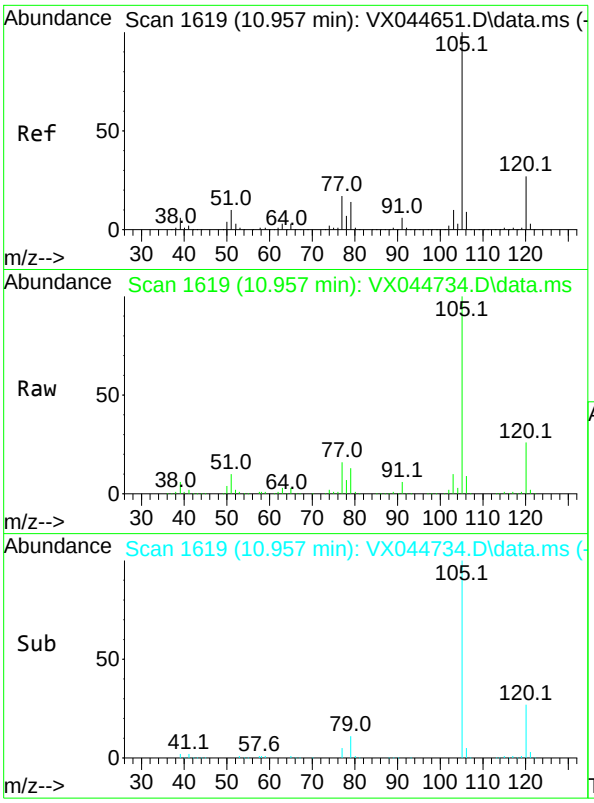



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:152 Resp: 114515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 85.9 | 43.8 | 131.4 |
| 150 | 173.0 | 0.0 | 347.8 |






#73
Isopropylbenzene
Concen: 49.995 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:105 Resp: 46770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 13.2 | 39.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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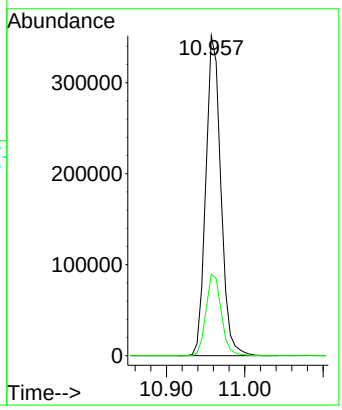
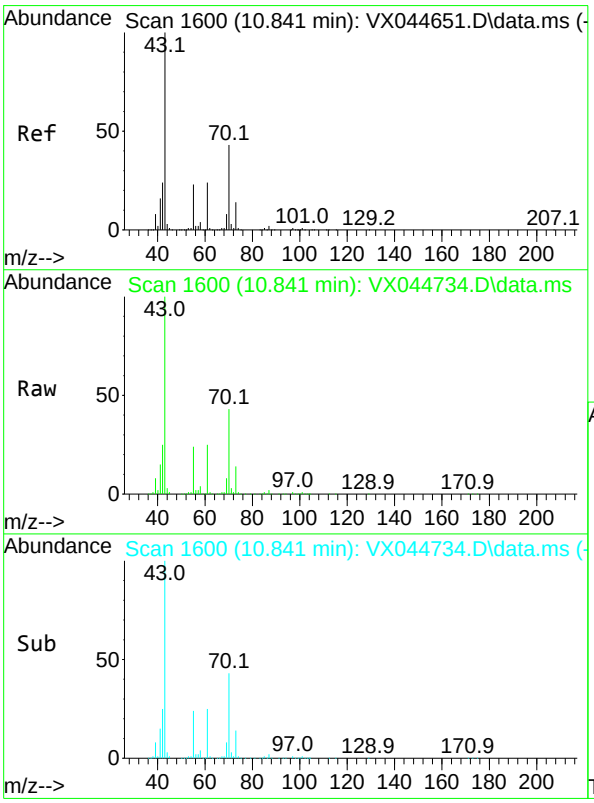
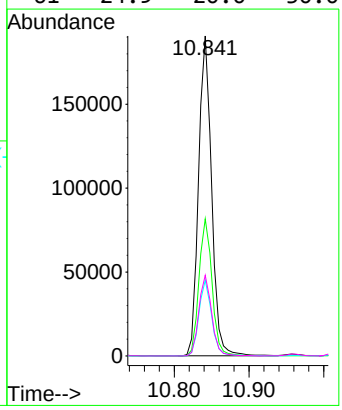


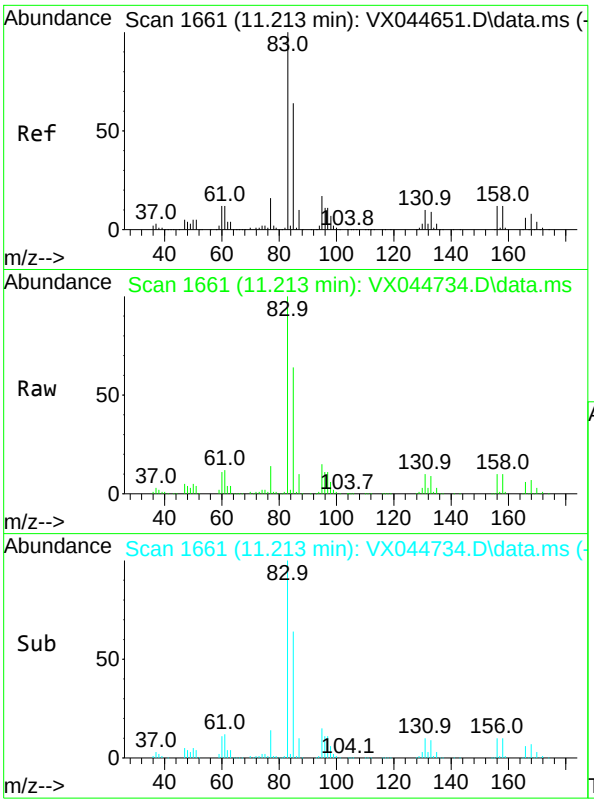




#74
N-amyl acetate
Concen: 50.050 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 230784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.0 | 35.2 | 52.8 |
| 55 | 23.3 | 19.0 | 28.4 |
| 61 | 24.9 | 20.0 | 30.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 50.287 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 83 Resp: 16247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.3 | 5.0 | 14.9 |
| 85 | 64.0 | 32.0 | 96.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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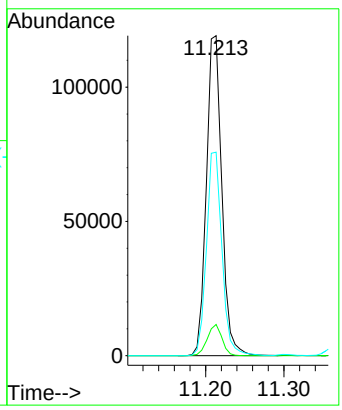
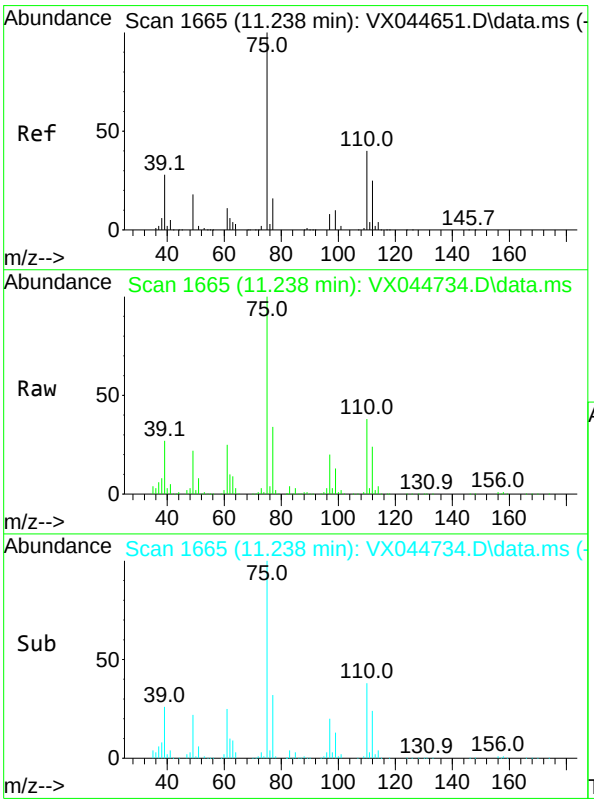
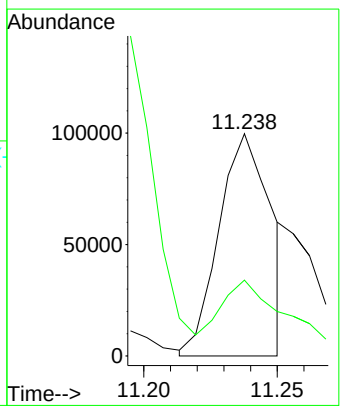


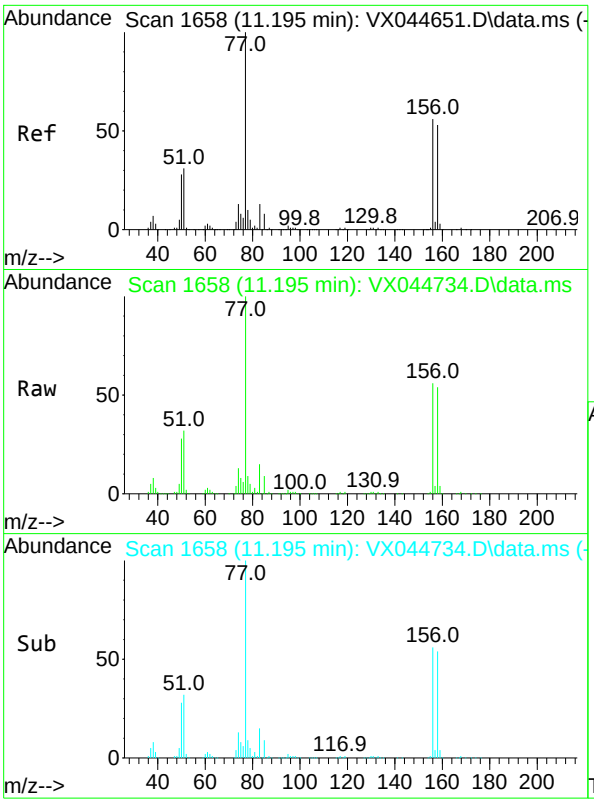




#76
1,2,3-Trichloropropane
Concen: 48.551 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 75 Resp: 134928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 45.0 | 23.4 | 70.2 |

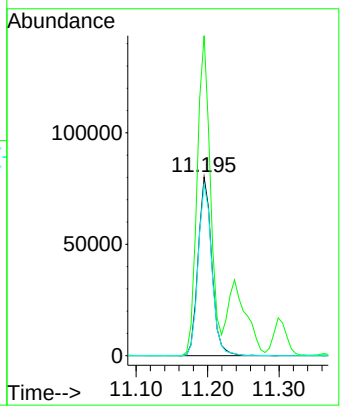





#77
Bromobenzene
Concen: 48.400 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:156 Resp: 10583

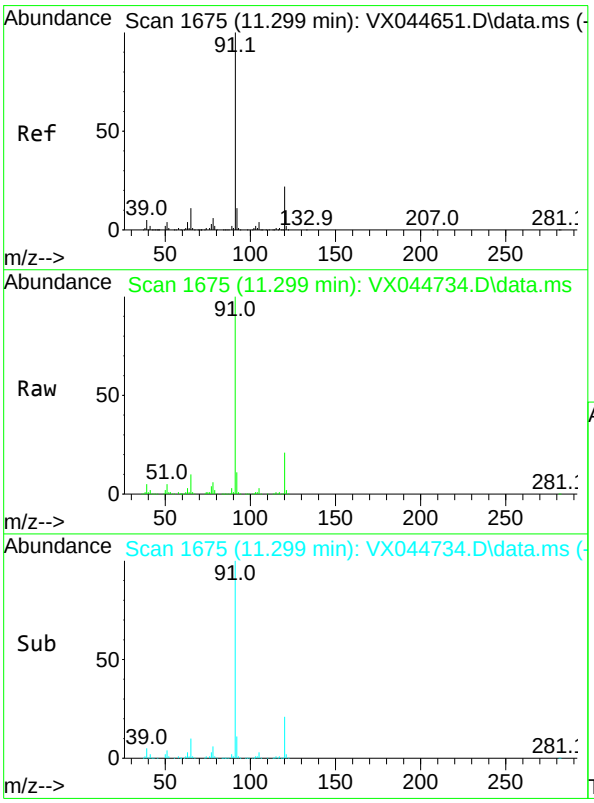
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 174.7 | 90.3 | 271.0 |
| 158 | 96.6 | 48.4 | 145.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

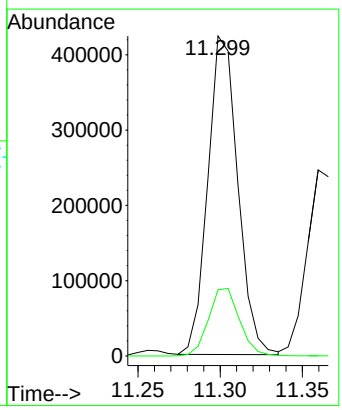
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

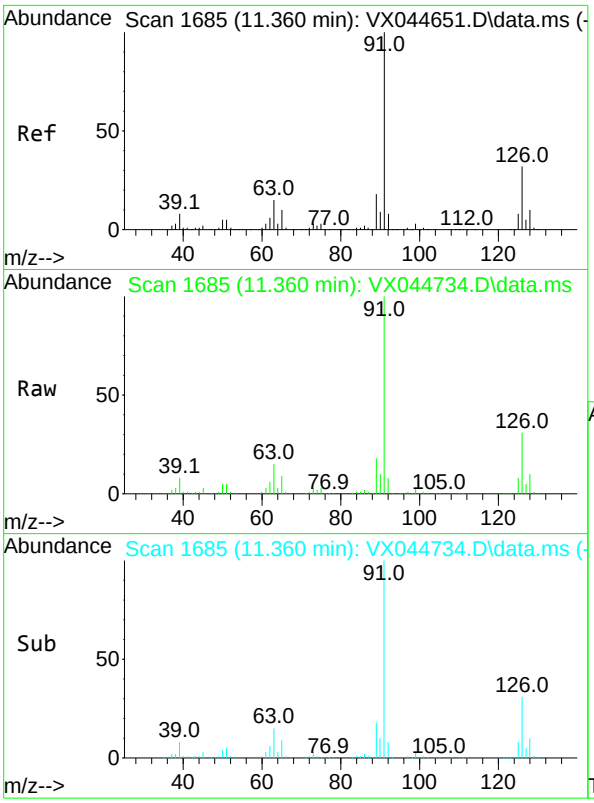



#78
n-propylbenzene
Concen: 52.120 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 91 Resp: 537719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.9 | 11.4 | 34.1 |






#79
2-Chlorotoluene
Concen: 48.732 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 91 Resp: 32477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.7 | 16.2 | 48.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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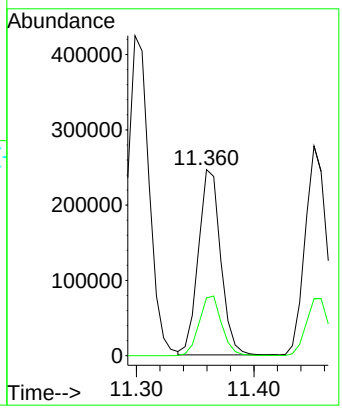
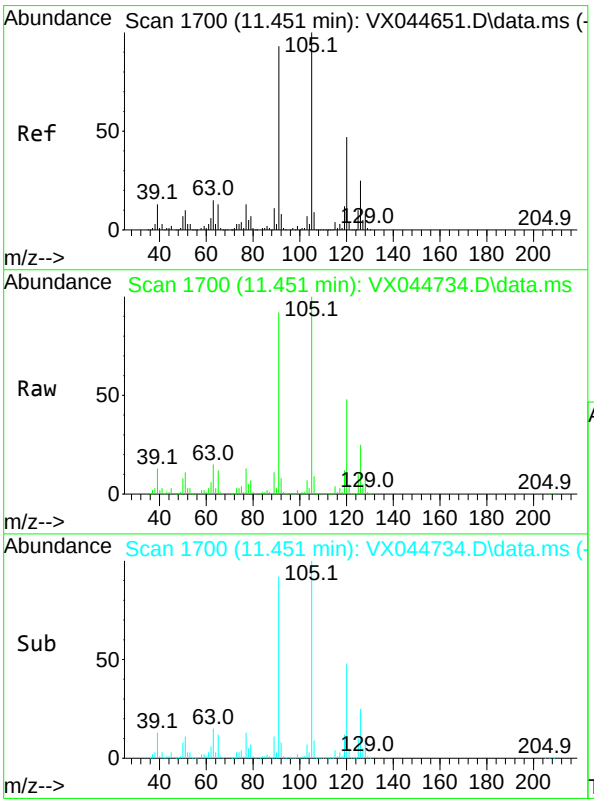
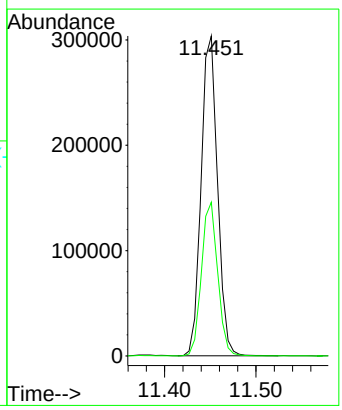


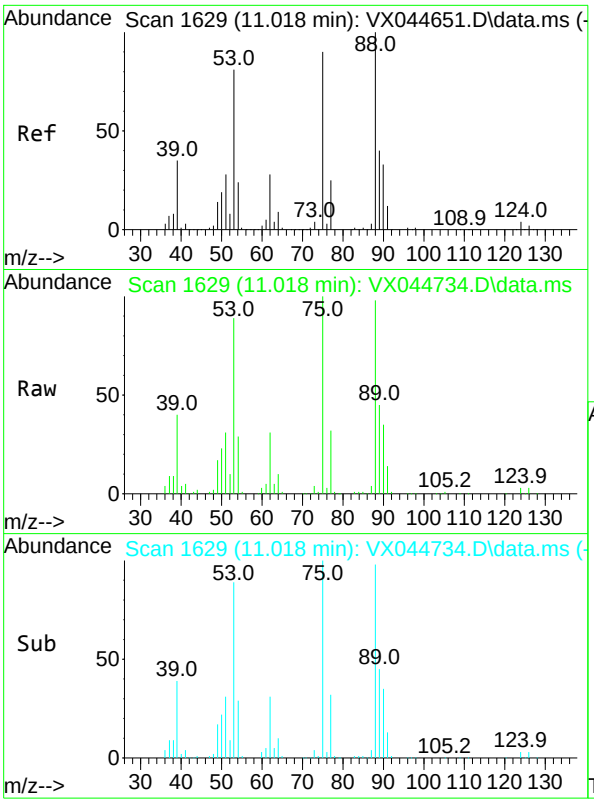




#80
1,3,5-Trimethylbenzene
Concen: 49.507 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:105 Resp: 377028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 23.7 | 71.1 |






#81
trans-1,4-Dichloro-2-butene
Concen: 47.755 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 75 Resp: 5803

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.5 | 74.3 | 111.5 |
| 89 | 44.6 | 37.4 | 56.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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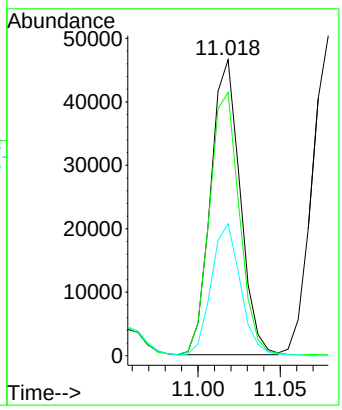
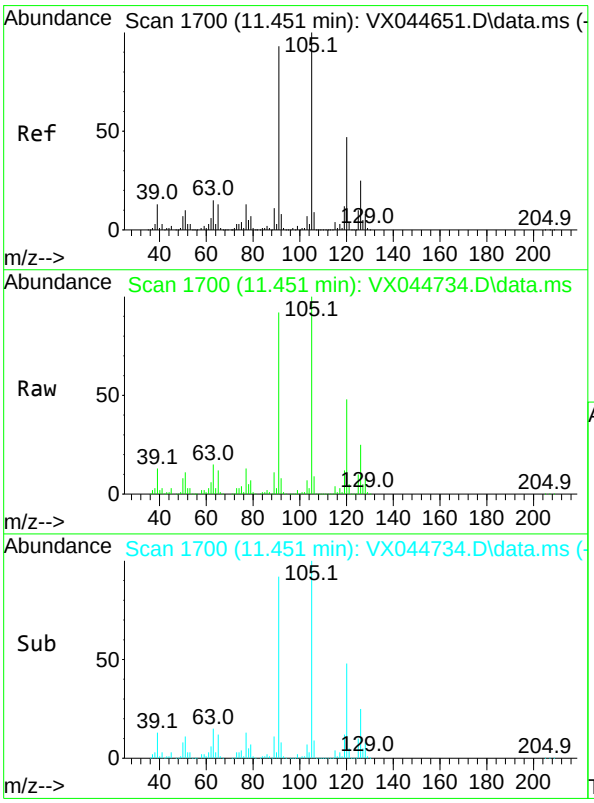
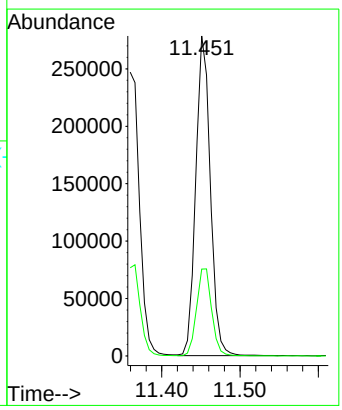


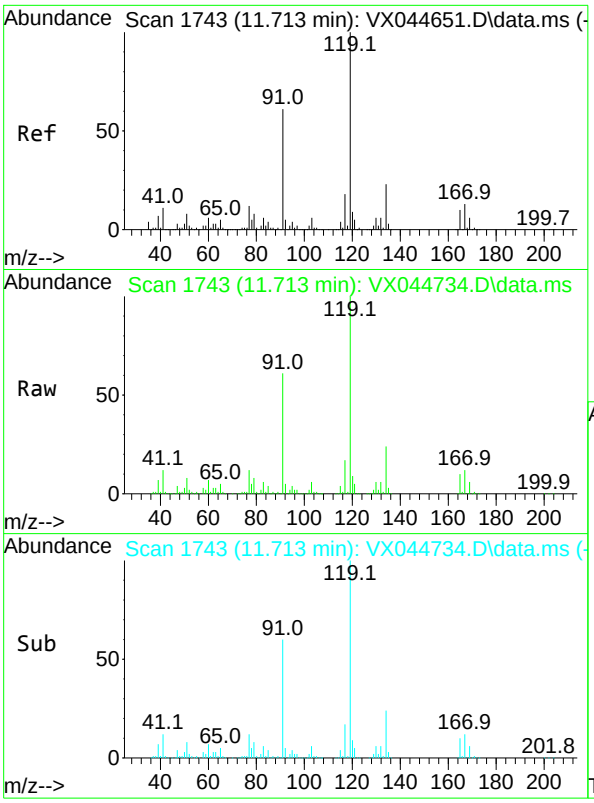




#82
4-Chlorotoluene
Concen: 49.417 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 91 Resp: 360773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.4 | 13.9 | 41.7 |

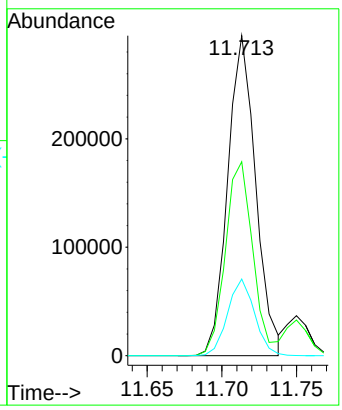





#83
tert-Butylbenzene
Concen: 48.285 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:119 Resp: 38449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 59.7 | 30.0 | 90.0 |
| 134 | 23.1 | 11.2 | 33.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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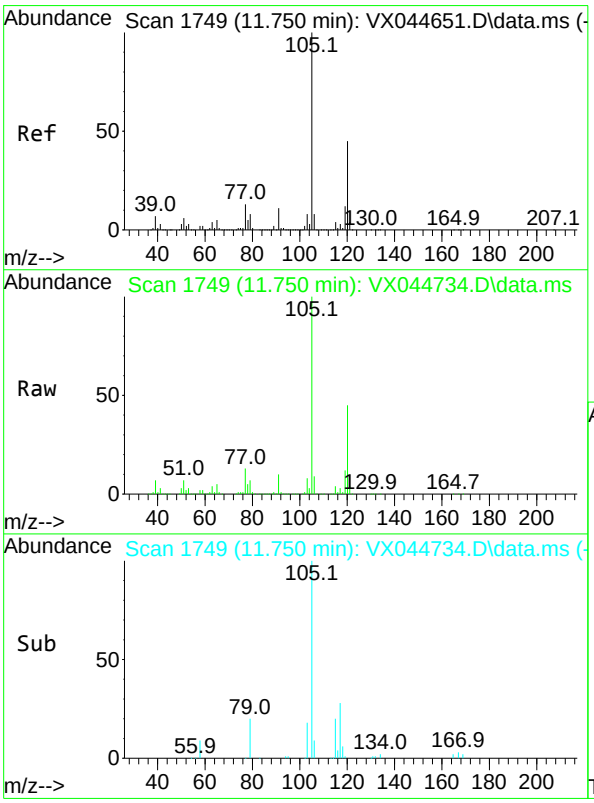
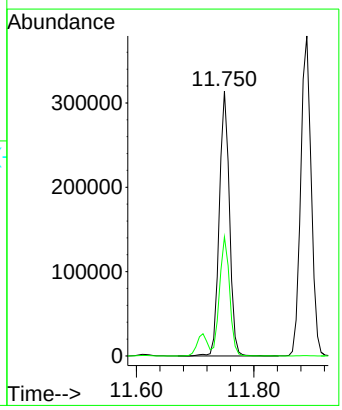
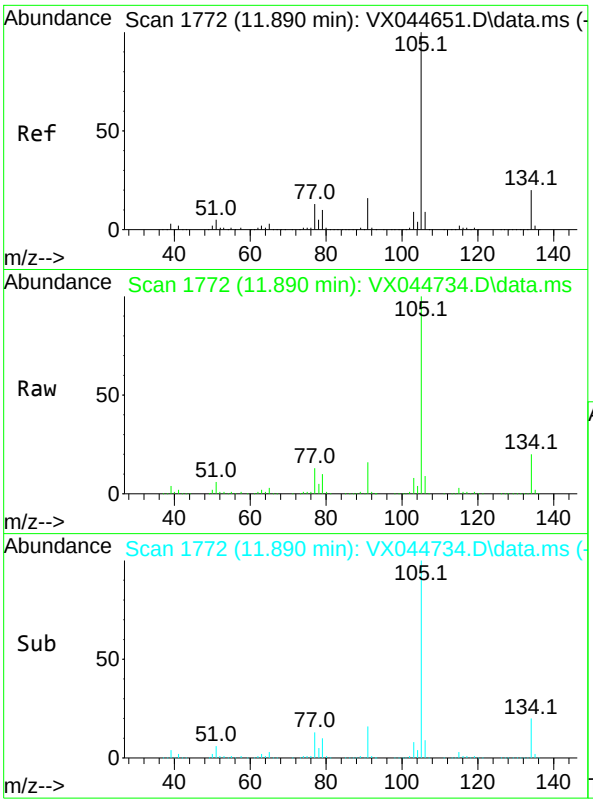



#84
1,2,4-Trimethylbenzene
Concen: 48.458 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:105 Resp: 375017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.8 | 22.2 | 66.6 |

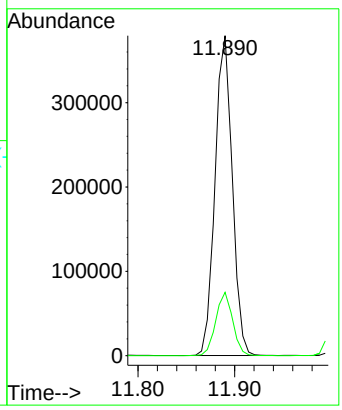





#85
sec-Butylbenzene
Concen: 50.498 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:105 Resp: 46820

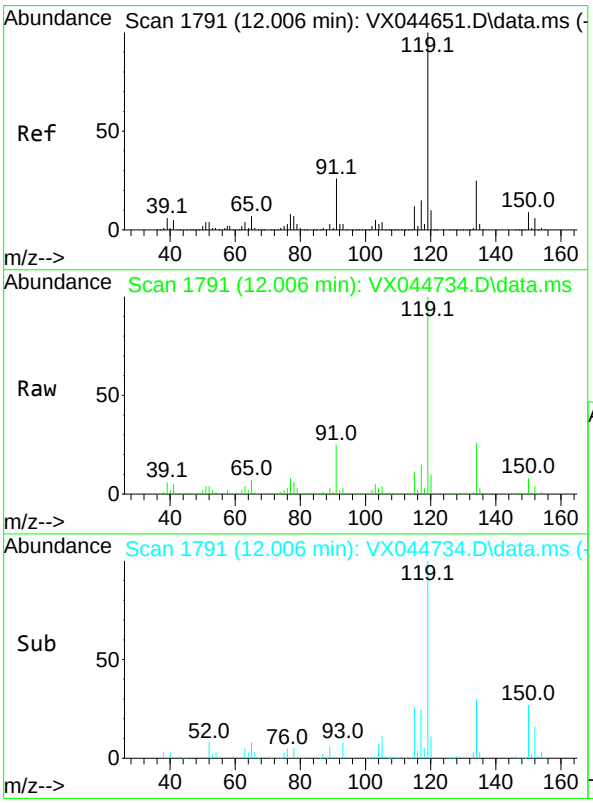
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.8 | 29.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

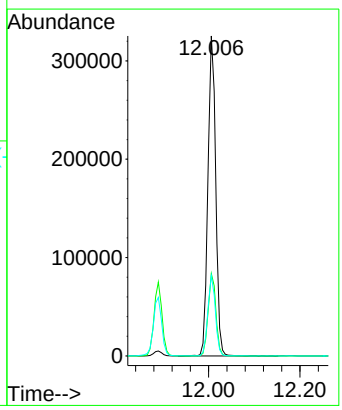
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

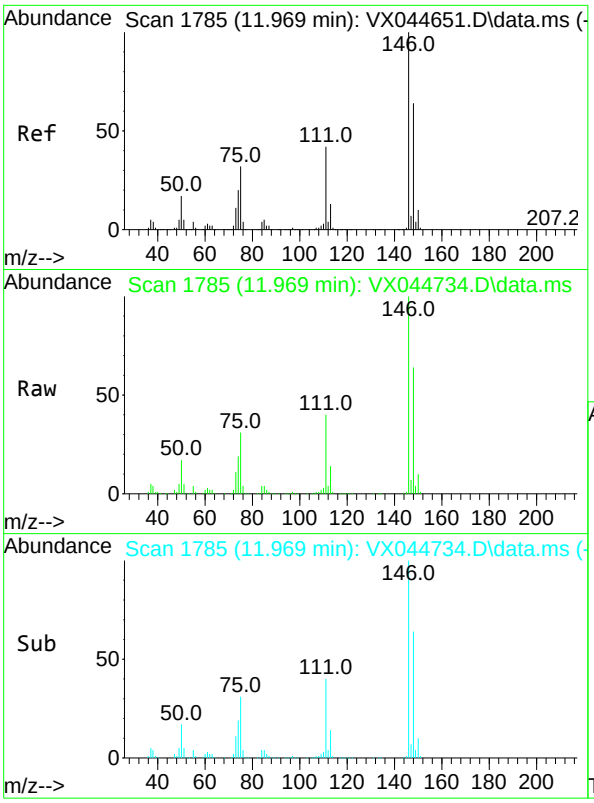



#86
p-Isopropyltoluene
Concen: 50.439 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:119 Resp: 384326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.8 | 38.4 |
| 91 | 24.3 | 12.7 | 38.1 |

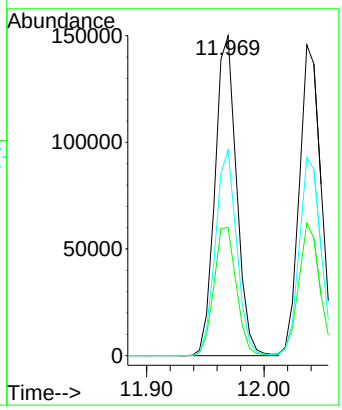





#87
1,3-Dichlorobenzene
Concen: 50.565 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:146 Resp: 19174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.8 | 21.9 | 65.7 |
| 148 | 63.5 | 31.8 | 95.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
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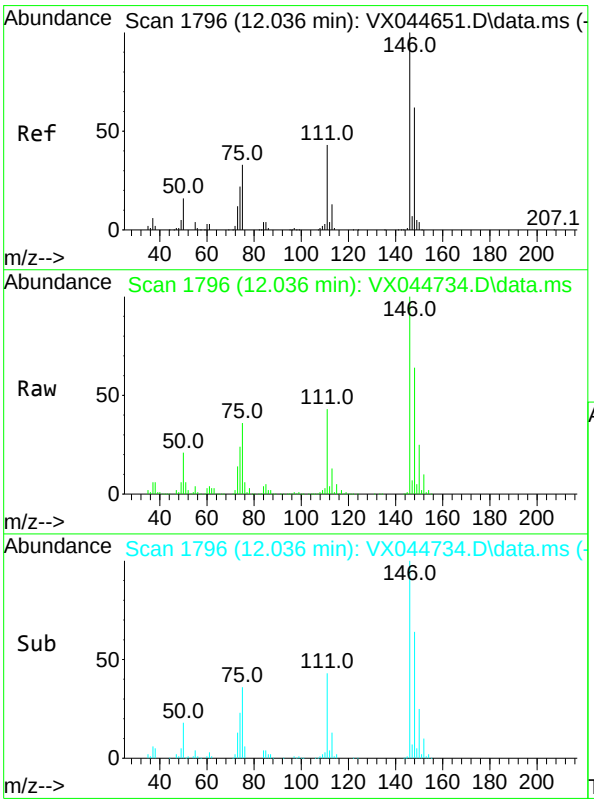
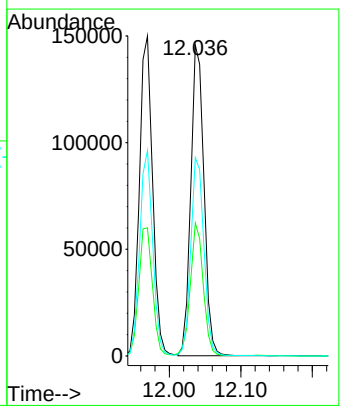
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

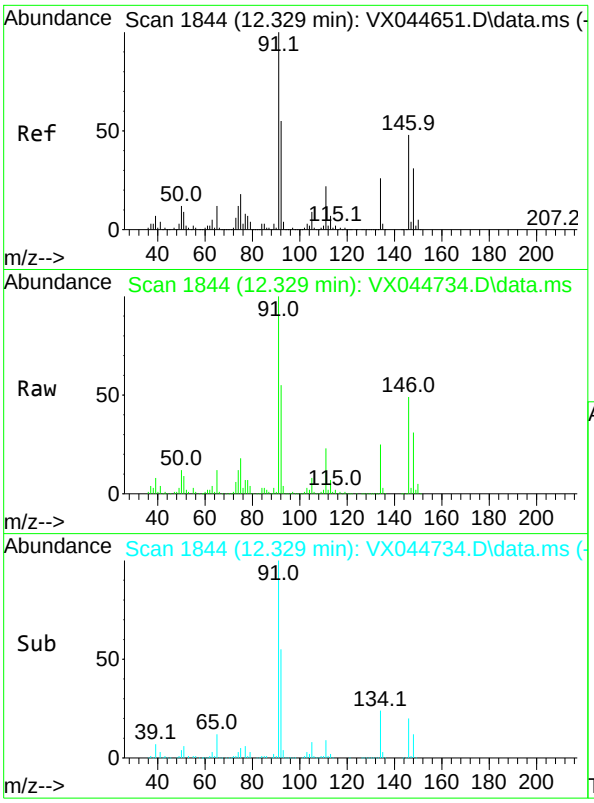



#88
1,4-Dichlorobenzene
Concen: 48.716 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:146 Resp: 186749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.7 | 21.5 | 64.5 |
| 148 | 63.7 | 32.1 | 96.5 |

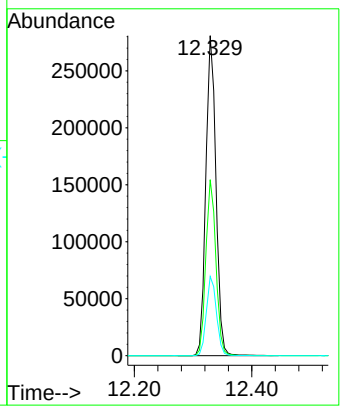





#89
n-Butylbenzene
Concen: 51.507 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 91 Resp: 33708

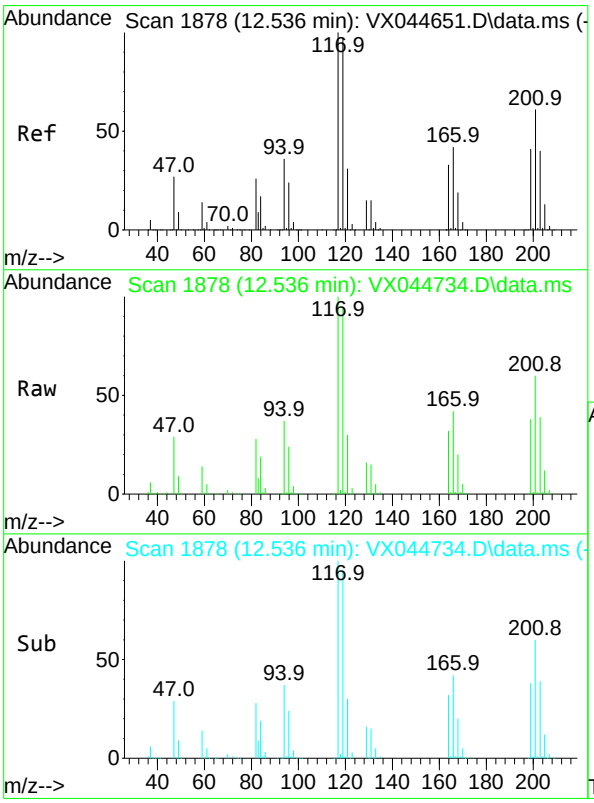
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.9 | 27.4 | 82.0 |
| 134 | 24.8 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

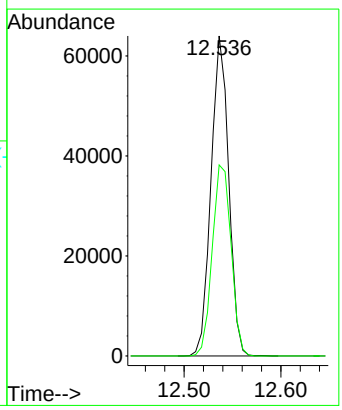
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

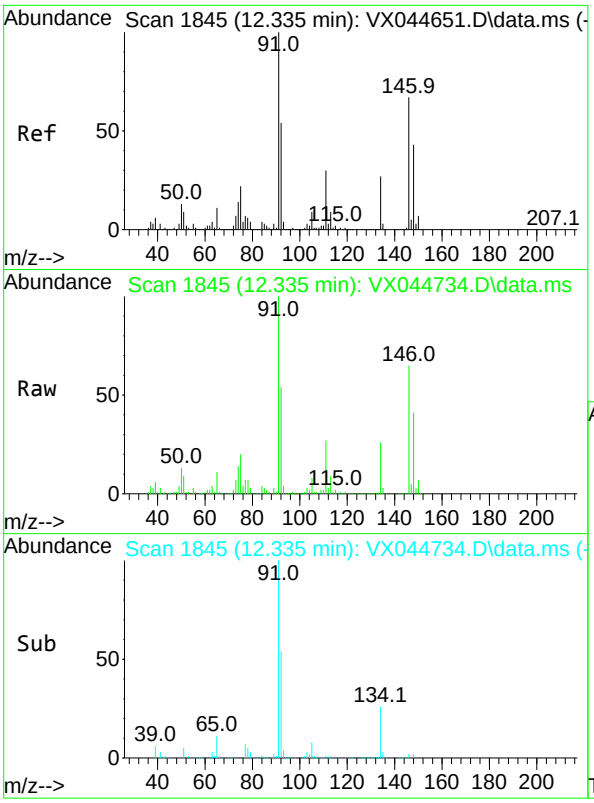



#90
Hexachloroethane
Concen: 47.079 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:117 Resp: 81232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.6 | 32.3 | 96.8 |

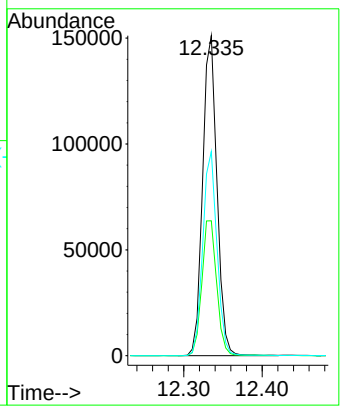





#91
1,2-Dichlorobenzene
Concen: 49.238 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:146 Resp: 19175

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.8 | 22.4 | 67.2 |
| 148 | 63.4 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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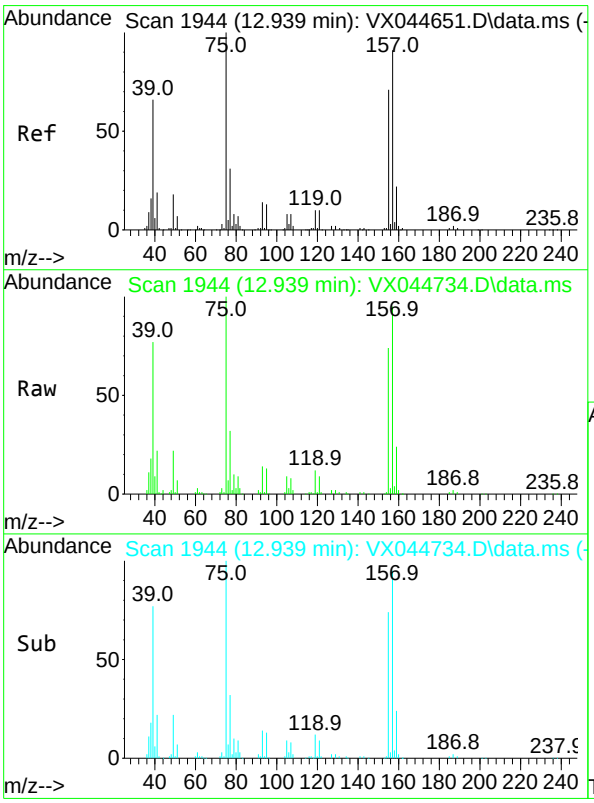
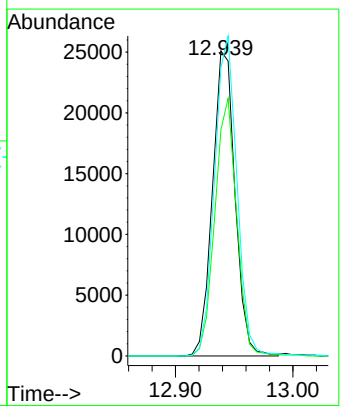
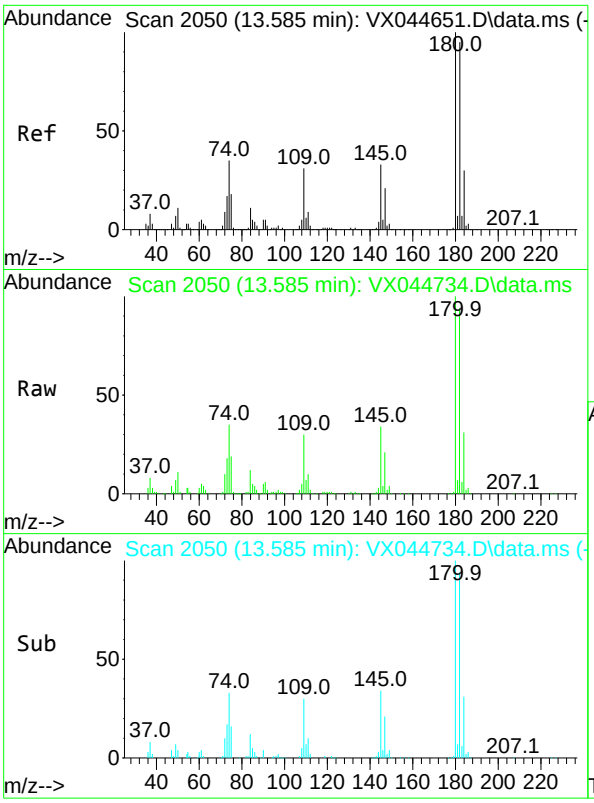



#92
1,2-Dibromo-3-Chloropropane
Concen: 42.388 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 75 Resp: 33494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 81.8 | 39.0 | 116.9 |
| 157 | 104.4 | 49.9 | 149.7 |

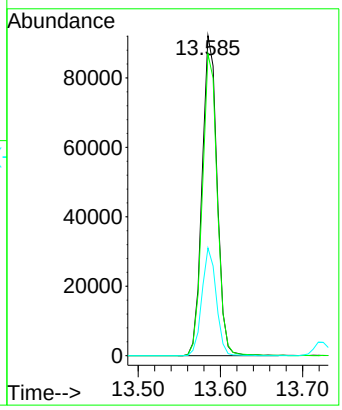





#93
1,2,4-Trichlorobenzene
Concen: 49.887 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:180 Resp: 11614

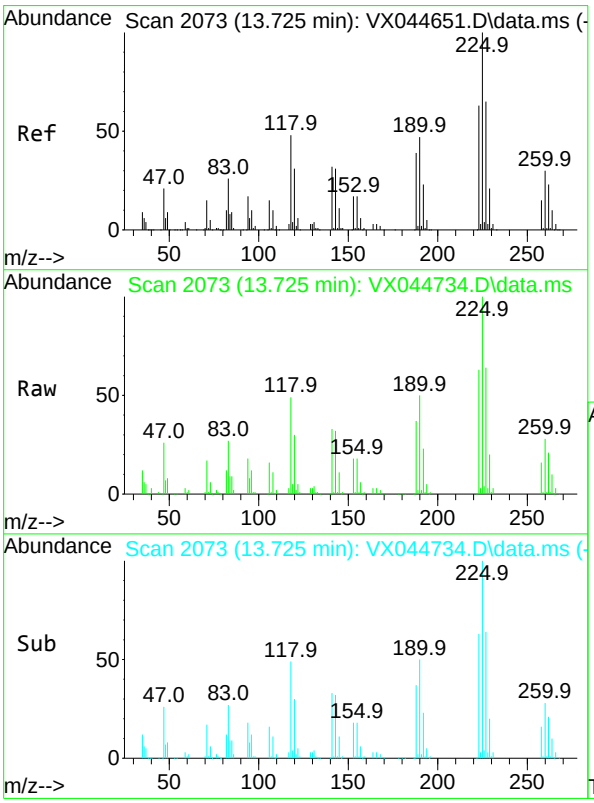
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 47.4 | 142.2 |
| 145 | 32.3 | 16.7 | 50.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

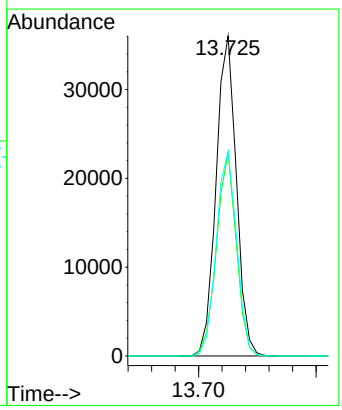
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

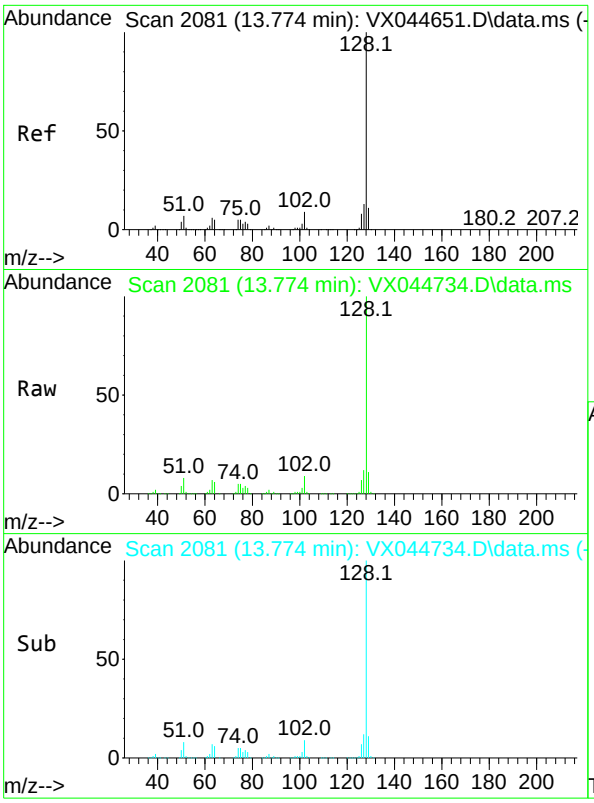



#94
Hexachlorobutadiene
Concen: 47.259 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:225 Resp: 43217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.9 | 95.7 |
| 227 | 64.2 | 31.8 | 95.4 |

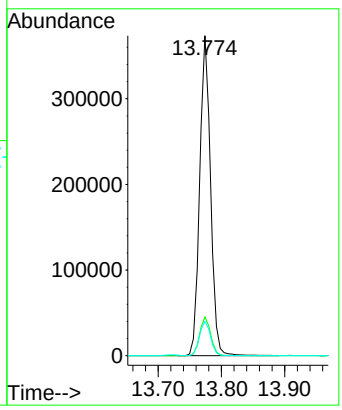





#95
Naphthalene
Concen: 49.711 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:128 Resp: 44636

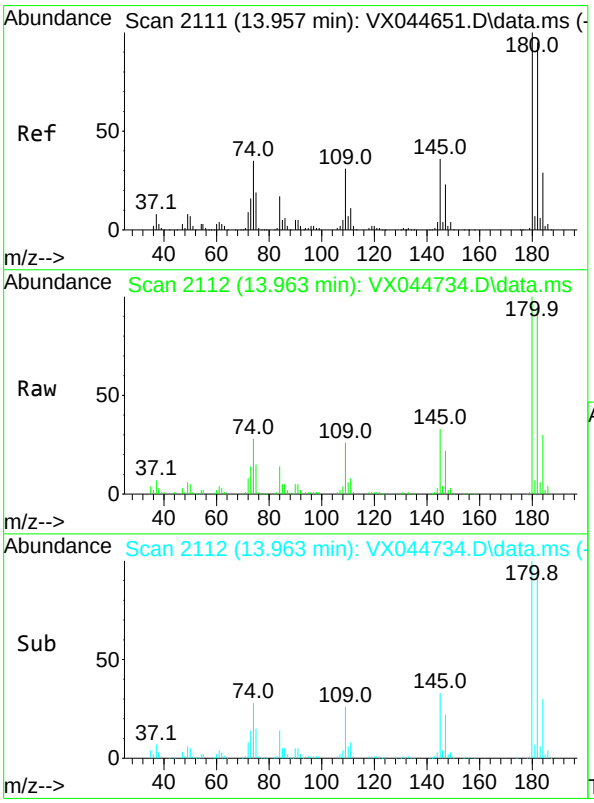
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.4 | 10.3 | 15.5 |
| 129 | 11.0 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

**Manual Integrations**
**APPROVED**

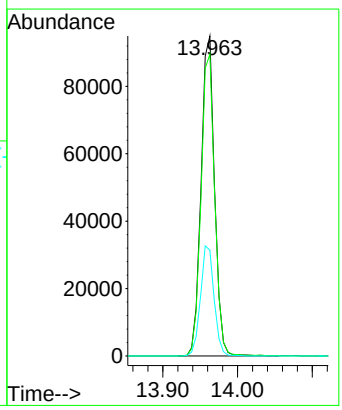
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025




#96
1,2,3-Trichlorobenzene
Concen: 49.232 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:180 Resp: 118806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 47.2 | 141.6 |
| 145 | 34.7 | 17.5 | 52.6 |



Sample Results: **VX044734.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 91 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 0.673 | 0.646 | 4.0 | 86 | 0.00 |
| 3 | P | Chloromethane | 0.728 | 0.744 | -2.2 | 95 | 0.00 |
| 4 | C | Vinyl Chloride | 0.719 | 0.766 | -6.5# | 99 | 0.00 |
| 5 | T | Bromomethane | 0.172 | 0.186 | -8.1 | 99 | 0.00 |
| 6 | T | Chloroethane | 0.132 | 0.181 | -37.1# | 140 | 0.00 |
| 7 | T | Trichlorofluoromethane | 0.795 | 0.925 | -16.4 | 109 | 0.00 |
| 8 | T | Diethyl Ether | 0.321 | 0.335 | -4.4 | 104 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 0.597 | 0.628 | -5.2 | 103 | 0.00 |
| 10 | T | Methyl Iodide | 0.815 | 0.845 | -3.7 | 95 | 0.00 |
| 11 | T | Tert butyl alcohol | 0.168 | 0.155 | 7.7 | 93 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 0.585 | 0.647 | -10.6# | 103 | 0.00 |
| 13 | T | Acrolein | 0.079 | 0.104 | -31.6# | 139 | 0.00 |
| 14 | T | Allyl chloride | 1.140 | 1.160 | -1.8 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 0.330 | 0.368 | -11.5 | 107 | 0.00 |
| 16 | T | Acetone | 0.299 | 0.300 | -0.3 | 102 | 0.00 |
| 17 | T | Carbon Disulfide | 1.597 | 1.710 | -7.1 | 100 | 0.00 |
| 18 | T | Methyl Acetate | 0.921 | 1.076 | -16.8 | 111 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 2.121 | 2.147 | -1.2 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 0.695 | 0.714 | -2.7 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 0.611 | 0.636 | -4.1 | 101 | 0.00 |
| 22 | T | Diisopropyl ether | 1.981 | 2.204 | -11.3 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 1.734 | 1.858 | -7.2 | 102 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 1.175 | 1.255 | -6.8 | 101 | 0.00 |
| 25 | T | 2-Butanone | 0.444 | 0.489 | -10.1 | 104 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 1.139 | 0.963 | 15.5 | 83 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 0.769 | 0.784 | -2.0 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 0.549 | 0.597 | -8.7 | 102 | 0.00 |
| 29 | T | Tetrahydrofuran | 0.286 | 0.321 | -12.2 | 108 | 0.00 |
| 30 | C | Chloroform | 1.186 | 1.201 | -1.3# | 95 | 0.00 |
| 31 | T | Cyclohexane | 0.950 | 1.074 | -13.1 | 104 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 1.090 | 1.028 | 5.7 | 93 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 0.755 | 0.712 | 5.7 | 87 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 1.000 | 1.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 0.318 | 0.320 | -0.6 | 93 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 0.442 | 0.439 | 0.7 | 100 | 0.00 |
| 37 | T | Ethyl Acetate | 0.471 | 0.516 | -9.6 | 103 | 0.00 |
| 38 | T | Carbon Tetrachloride | 0.497 | 0.462 | 7.0 | 93 | 0.00 |
| 39 | T | Methylcyclohexane | 0.587 | 0.588 | -0.2 | 99 | 0.00 |
| 40 | TM | Benzene | 1.370 | 1.426 | -4.1 | 101 | 0.00 |
| 41 | T | Methacrylonitrile | 0.274 | 0.286 | -4.4 | 104 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 0.500 | 0.460 | 8.0 | 89 | 0.00 |
| 43 | T | Isopropyl Acetate | 0.866 | 0.860 | 0.7 | 98 | 0.00 |
| 44 | TM | Trichloroethene | 0.329 | 0.329 | 0.0 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 0.345 | 0.360 | -4.3# | 101 | 0.00 |
| 46 | T | Dibromomethane | 0.263 | 0.252 | 4.2 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 0.538 | 0.505 | 6.1 | 92 | 0.00 |
| 48 | T | Methyl methacrylate | 0.402 | 0.410 | -2.0 | 95 | 0.00 |

Sample Results: **VX044734.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 0.008 | 0.008 | 0.0 | 94 | 0.00 |
| 50 | S | Toluene-d8 | 1.108 | 1.148 | -3.6 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 0.479 | 0.494 | -3.1 | 102 | 0.00 |
| 52 | CM | Toluene | 0.839 | 0.847 | -1.0# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 0.556 | 0.518 | 6.8 | 88 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 0.603 | 0.575 | 4.6 | 93 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 0.339 | 0.332 | 2.1 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 0.583 | 0.569 | 2.4 | 93 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 0.578 | 0.568 | 1.7 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 0.286 | 0.257 | 10.1 | 87 | 0.00 |
| 59 | T | 2-Hexanone | 0.352 | 0.362 | -2.8 | 102 | 0.00 |
| 60 | T | Dibromochloromethane | 0.398 | 0.369 | 7.3 | 90 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 0.356 | 0.339 | 4.8 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 0.413 | 0.386 | 6.5 | 85 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 1.000 | 1.000 | 0.0 | 89 | 0.00 |
| 64 | T | Tetrachloroethene | 0.314 | 0.307 | 2.2 | 93 | 0.00 |
| 65 | PM | Chlorobenzene | 1.062 | 1.060 | 0.2 | 94 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 0.386 | 0.367 | 4.9 | 89 | 0.00 |
| 67 | C | Ethyl Benzene | 1.853 | 1.887 | -1.8# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 0.688 | 0.698 | -1.5 | 95 | 0.00 |
| 69 | T | o-Xylene | 0.695 | 0.694 | 0.1 | 93 | 0.00 |
| 70 | T | Styrene | 1.123 | 1.138 | -1.3 | 93 | 0.00 |
| 71 | P | Bromoform | 0.314 | 0.292 | 7.0 | 87 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 1.000 | 1.000 | 0.0 | 90 | 0.00 |
| 73 | T | Isopropylbenzene | 4.085 | 4.084 | 0.0 | 93 | 0.00 |
| 74 | T | N-amyl acetate | 2.013 | 2.015 | -0.1 | 95 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 1.411 | 1.419 | -0.6 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 1.213 | 1.178 | 2.9 | 96 | 0.00 |
| 77 | T | Bromobenzene | 0.955 | 0.924 | 3.2 | 92 | 0.00 |
| 78 | T | n-propylbenzene | 4.505 | 4.696 | -4.2 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 2.910 | 2.836 | 2.5 | 92 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 3.325 | 3.292 | 1.0 | 93 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 0.531 | 0.507 | 4.5 | 89 | 0.00 |
| 82 | T | 4-Chlorotoluene | 3.188 | 3.150 | 1.2 | 92 | 0.00 |
| 83 | T | tert-Butylbenzene | 3.477 | 3.358 | 3.4 | 91 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 3.379 | 3.275 | 3.1 | 91 | 0.00 |
| 85 | T | sec-Butylbenzene | 4.048 | 4.089 | -1.0 | 94 | 0.00 |
| 86 | T | p-Isopropyltoluene | 3.327 | 3.356 | -0.9 | 93 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 1.656 | 1.674 | -1.1 | 93 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 1.674 | 1.631 | 2.6 | 93 | 0.00 |
| 89 | T | n-Butylbenzene | 2.857 | 2.944 | -3.0 | 94 | 0.00 |
| 90 | T | Hexachloroethane | 0.753 | 0.709 | 5.8 | 92 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 1.700 | 1.674 | 1.5 | 92 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 0.345 | 0.292 | 15.4 | 84 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 1.016 | 1.014 | 0.2 | 88 | 0.00 |
| 94 | T | Hexachlorobutadiene | 0.399 | 0.377 | 5.5 | 86 | 0.00 |
| 95 | T | Naphthalene | 3.920 | 3.898 | 0.6 | 92 | 0.00 |

Sample Results: **VX044734.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 1.054 | 1.037 | 1.6 | 88 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

Sample Results: **VX044734.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 91 | 0.00 |
| 2 | T | Dichlorodifluoromethane | 50.000 | 48.005 | 4.0 | 86 | 0.00 |
| 3 | P | Chloromethane | 50.000 | 51.146 | -2.3 | 95 | 0.00 |
| 4 | C | Vinyl Chloride | 50.000 | 53.282 | -6.6# | 99 | 0.00 |
| 5 | T | Bromomethane | 50.000 | 54.267 | -8.5 | 99 | 0.00 |
| 6 | T | Chloroethane | 50.000 | 68.728 | -37.5# | 140 | 0.00 |
| 7 | T | Trichlorofluoromethane | 50.000 | 58.228 | -16.5 | 109 | 0.00 |
| 8 | T | Diethyl Ether | 50.000 | 52.188 | -4.4 | 104 | 0.00 |
| 9 | T | 1,1,2-Trichlorotrifluoroeth | 50.000 | 52.594 | -5.2 | 103 | 0.00 |
| 10 | T | Methyl Iodide | 50.000 | 51.790 | -3.6 | 95 | 0.00 |
| 11 | T | Tert butyl alcohol | 250.000 | 229.927 | 8.0 | 93 | 0.00 |
| 12 | CM | 1,1-Dichloroethene | 50.000 | 55.215 | -10.4# | 103 | 0.00 |
| 13 | T | Acrolein | 250.000 | 329.074 | -31.6# | 139 | 0.00 |
| 14 | T | Allyl chloride | 50.000 | 50.867 | -1.7 | 100 | 0.00 |
| 15 | T | Acrylonitrile | 250.000 | 279.107 | -11.6 | 107 | 0.00 |
| 16 | T | Acetone | 250.000 | 251.283 | -0.5 | 102 | 0.00 |
| 17 | T | Carbon Disulfide | 50.000 | 53.527 | -7.1 | 100 | 0.00 |
| 18 | T | Methyl Acetate | 50.000 | 58.407 | -16.8 | 111 | 0.00 |
| 19 | T | Methyl tert-butyl Ether | 50.000 | 50.627 | -1.3 | 96 | 0.00 |
| 20 | T | Methylene Chloride | 50.000 | 51.328 | -2.7 | 99 | 0.00 |
| 21 | T | trans-1,2-Dichloroethene | 50.000 | 52.052 | -4.1 | 101 | 0.00 |
| 22 | T | Diisopropyl ether | 50.000 | 55.621 | -11.2 | 105 | 0.00 |
| 23 | T | Vinyl Acetate | 250.000 | 267.851 | -7.1 | 102 | 0.00 |
| 24 | P | 1,1-Dichloroethane | 50.000 | 53.411 | -6.8 | 101 | 0.00 |
| 25 | T | 2-Butanone | 250.000 | 275.626 | -10.3 | 104 | 0.00 |
| 26 | T | 2,2-Dichloropropane | 50.000 | 42.282 | 15.4 | 83 | 0.00 |
| 27 | T | cis-1,2-Dichloroethene | 50.000 | 50.998 | -2.0 | 99 | 0.00 |
| 28 | T | Bromochloromethane | 50.000 | 54.405 | -8.8 | 102 | 0.00 |
| 29 | T | Tetrahydrofuran | 250.000 | 279.917 | -12.0 | 108 | 0.00 |
| 30 | C | Chloroform | 50.000 | 50.629 | -1.3# | 95 | 0.00 |
| 31 | T | Cyclohexane | 50.000 | 56.510 | -13.0 | 104 | 0.00 |
| 32 | T | 1,1,1-Trichloroethane | 50.000 | 47.142 | 5.7 | 93 | 0.00 |
| 33 | S | 1,2-Dichloroethane-d4 | 50.000 | 47.199 | 5.6 | 87 | 0.00 |
| 34 | I | 1,4-Difluorobenzene | 50.000 | 50.000 | 0.0 | 93 | 0.00 |
| 35 | S | Dibromofluoromethane | 50.000 | 50.447 | -0.9 | 93 | 0.00 |
| 36 | T | 1,1-Dichloropropene | 50.000 | 49.591 | 0.8 | 100 | 0.00 |
| 37 | T | Ethyl Acetate | 50.000 | 54.798 | -9.6 | 103 | 0.00 |
| 38 | T | Carbon Tetrachloride | 50.000 | 46.468 | 7.1 | 93 | 0.00 |
| 39 | T | Methylcyclohexane | 50.000 | 50.118 | -0.2 | 99 | 0.00 |
| 40 | TM | Benzene | 50.000 | 52.035 | -4.1 | 101 | 0.00 |
| 41 | T | Methacrylonitrile | 50.000 | 52.088 | -4.2 | 104 | 0.00 |
| 42 | TM | 1,2-Dichloroethane | 50.000 | 46.037 | 7.9 | 89 | 0.00 |
| 43 | T | Isopropyl Acetate | 50.000 | 49.636 | 0.7 | 98 | 0.00 |
| 44 | TM | Trichloroethene | 50.000 | 49.981 | 0.0 | 97 | 0.00 |
| 45 | C | 1,2-Dichloropropane | 50.000 | 52.217 | -4.4# | 101 | 0.00 |
| 46 | T | Dibromomethane | 50.000 | 47.970 | 4.1 | 95 | 0.00 |
| 47 | T | Bromodichloromethane | 50.000 | 46.892 | 6.2 | 92 | 0.00 |
| 48 | T | Methyl methacrylate | 50.000 | 51.021 | -2.0 | 95 | 0.00 |

Sample Results: **VX044734.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 958.191 | 4.2 | 94 | 0.00 |
| 50 | S | Toluene-d8 | 50.000 | 51.838 | -3.7 | 96 | 0.00 |
| 51 | T | 4-Methyl-2-Pentanone | 250.000 | 258.036 | -3.2 | 102 | 0.00 |
| 52 | CM | Toluene | 50.000 | 50.481 | -1.0# | 97 | 0.00 |
| 53 | T | t-1,3-Dichloropropene | 50.000 | 46.558 | 6.9 | 88 | 0.00 |
| 54 | T | cis-1,3-Dichloropropene | 50.000 | 47.685 | 4.6 | 93 | 0.00 |
| 55 | T | 1,1,2-Trichloroethane | 50.000 | 48.870 | 2.3 | 96 | 0.00 |
| 56 | T | Ethyl methacrylate | 50.000 | 48.786 | 2.4 | 93 | 0.00 |
| 57 | T | 1,3-Dichloropropane | 50.000 | 49.168 | 1.7 | 95 | 0.00 |
| 58 | T | 2-Chloroethyl Vinyl ether | 250.000 | 223.982 | 10.4 | 87 | 0.00 |
| 59 | T | 2-Hexanone | 250.000 | 256.939 | -2.8 | 102 | 0.00 |
| 60 | T | Dibromochloromethane | 50.000 | 46.299 | 7.4 | 90 | 0.00 |
| 61 | T | 1,2-Dibromoethane | 50.000 | 47.644 | 4.7 | 93 | 0.00 |
| 62 | S | 4-Bromofluorobenzene | 50.000 | 46.714 | 6.6 | 85 | 0.00 |
| 63 | I | Chlorobenzene-d5 | 50.000 | 50.000 | 0.0 | 89 | 0.00 |
| 64 | T | Tetrachloroethene | 50.000 | 48.921 | 2.2 | 93 | 0.00 |
| 65 | PM | Chlorobenzene | 50.000 | 49.886 | 0.2 | 94 | 0.00 |
| 66 | T | 1,1,1,2-Tetrachloroethane | 50.000 | 47.492 | 5.0 | 89 | 0.00 |
| 67 | C | Ethyl Benzene | 50.000 | 50.924 | -1.8# | 95 | 0.00 |
| 68 | T | m/p-Xylenes | 100.000 | 101.518 | -1.5 | 95 | 0.00 |
| 69 | T | o-Xylene | 50.000 | 49.864 | 0.3 | 93 | 0.00 |
| 70 | T | Styrene | 50.000 | 50.666 | -1.3 | 93 | 0.00 |
| 71 | P | Bromoform | 50.000 | 46.525 | 7.0 | 87 | 0.00 |
| 72 | I | 1,4-Dichlorobenzene-d4 | 50.000 | 50.000 | 0.0 | 90 | 0.00 |
| 73 | T | Isopropylbenzene | 50.000 | 49.995 | 0.0 | 93 | 0.00 |
| 74 | T | N-amyl acetate | 50.000 | 50.050 | -0.1 | 95 | 0.00 |
| 75 | P | 1,1,2,2-Tetrachloroethane | 50.000 | 50.287 | -0.6 | 98 | 0.00 |
| 76 | T | 1,2,3-Trichloropropane | 50.000 | 48.551 | 2.9 | 96 | 0.00 |
| 77 | T | Bromobenzene | 50.000 | 48.400 | 3.2 | 92 | 0.00 |
| 78 | T | n-propylbenzene | 50.000 | 52.120 | -4.2 | 96 | 0.00 |
| 79 | T | 2-Chlorotoluene | 50.000 | 48.732 | 2.5 | 92 | 0.00 |
| 80 | T | 1,3,5-Trimethylbenzene | 50.000 | 49.507 | 1.0 | 93 | 0.00 |
| 81 | T | trans-1,4-Dichloro-2-butene | 50.000 | 47.755 | 4.5 | 89 | 0.00 |
| 82 | T | 4-Chlorotoluene | 50.000 | 49.417 | 1.2 | 92 | 0.00 |
| 83 | T | tert-Butylbenzene | 50.000 | 48.285 | 3.4 | 91 | 0.00 |
| 84 | T | 1,2,4-Trimethylbenzene | 50.000 | 48.458 | 3.1 | 91 | 0.00 |
| 85 | T | sec-Butylbenzene | 50.000 | 50.498 | -1.0 | 94 | 0.00 |
| 86 | T | p-Isopropyltoluene | 50.000 | 50.439 | -0.9 | 93 | 0.00 |
| 87 | T | 1,3-Dichlorobenzene | 50.000 | 50.565 | -1.1 | 93 | 0.00 |
| 88 | T | 1,4-Dichlorobenzene | 50.000 | 48.716 | 2.6 | 93 | 0.00 |
| 89 | T | n-Butylbenzene | 50.000 | 51.507 | -3.0 | 94 | 0.00 |
| 90 | T | Hexachloroethane | 50.000 | 47.079 | 5.8 | 92 | 0.00 |
| 91 | T | 1,2-Dichlorobenzene | 50.000 | 49.238 | 1.5 | 92 | 0.00 |
| 92 | T | 1,2-Dibromo-3-Chloropropane | 50.000 | 42.388 | 15.2 | 84 | 0.00 |
| 93 | T | 1,2,4-Trichlorobenzene | 50.000 | 49.887 | 0.2 | 88 | 0.00 |
| 94 | T | Hexachlorobutadiene | 50.000 | 47.259 | 5.5 | 86 | 0.00 |
| 95 | T | Naphthalene | 50.000 | 49.711 | 0.6 | 92 | 0.00 |

Sample Results: **VX044734.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**LabSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
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 | 49.232 | 1.5 | 88 | 0.00 |

(#) = Out of Range SPCC's out = 0 CCC's out = 6

# QC SAMPLE DATA

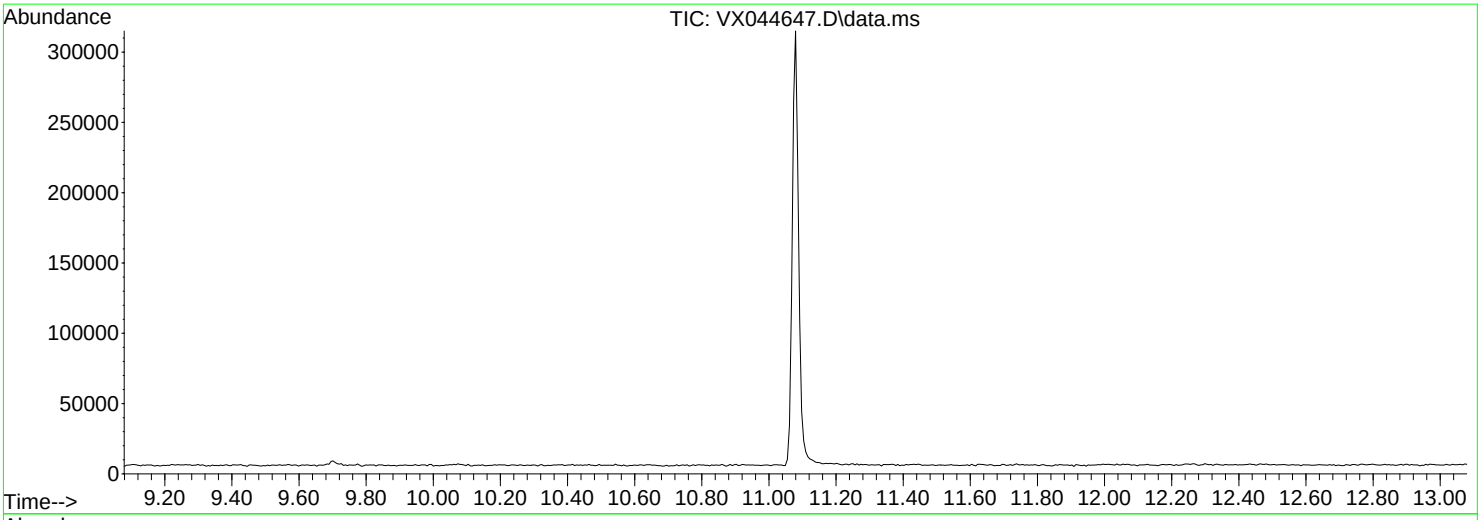
Sample Results: **VX044647.D**

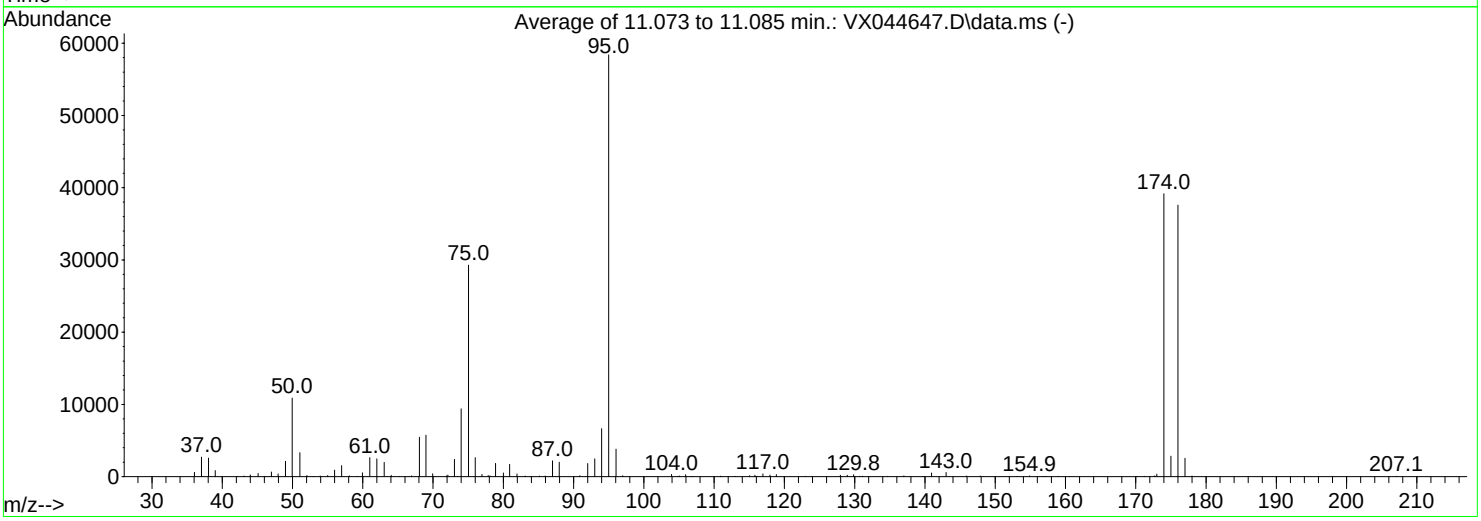
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044647.D
Acq On : 15 Jan 2025 09:30
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Title : SW846 8260
Last Update : Thu Jan 16 01:16:09 2025




AutoFind: Scans 1638, 1639, 1640; Background Corrected with Scan 1631

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 18.6 | 10879 | PASS |
| 75 | 95 | 30 | 60 | 50.2 | 29285 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 58391 | PASS |
| 96 | 95 | 5 | 9 | 6.5 | 3805 | PASS |
| 173 | 174 | 0.00 | 2 | 0.9 | 350 | PASS |
| 174 | 95 | 50 | 100 | 67.1 | 39163 | PASS |
| 175 | 174 | 5 | 9 | 7.3 | 2842 | PASS |
| 176 | 174 | 95 | 101 | 96.0 | 37587 | PASS |
| 177 | 176 | 5 | 9 | 6.8 | 2538 | PASS |

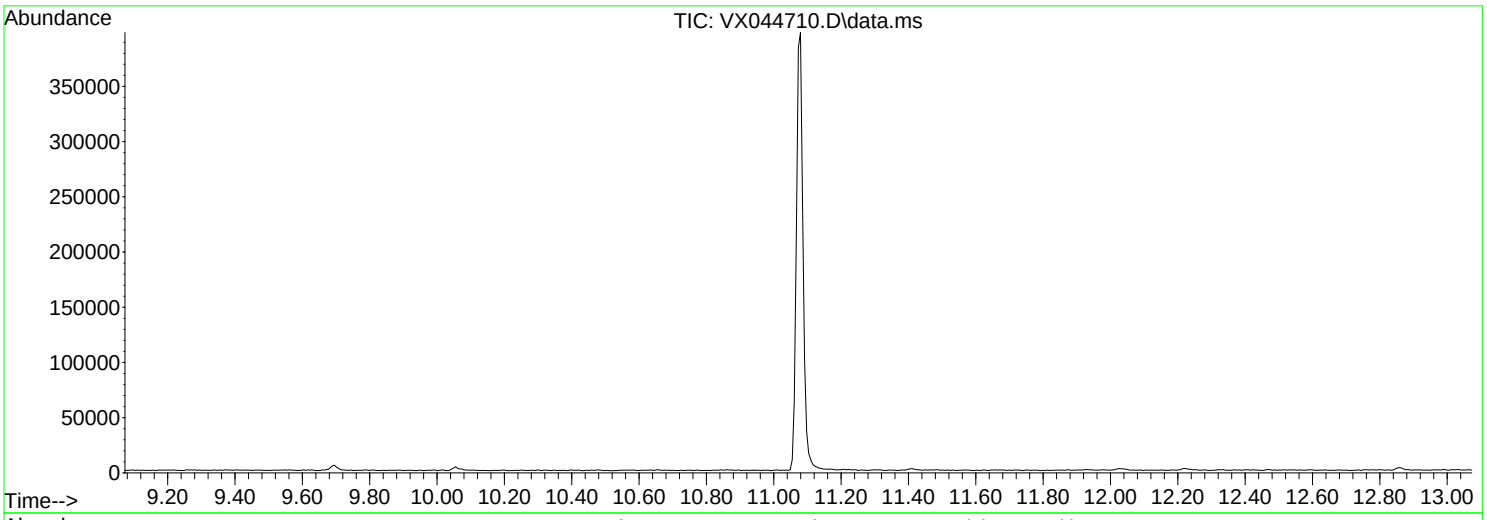
Sample Results: **VX044710.D**

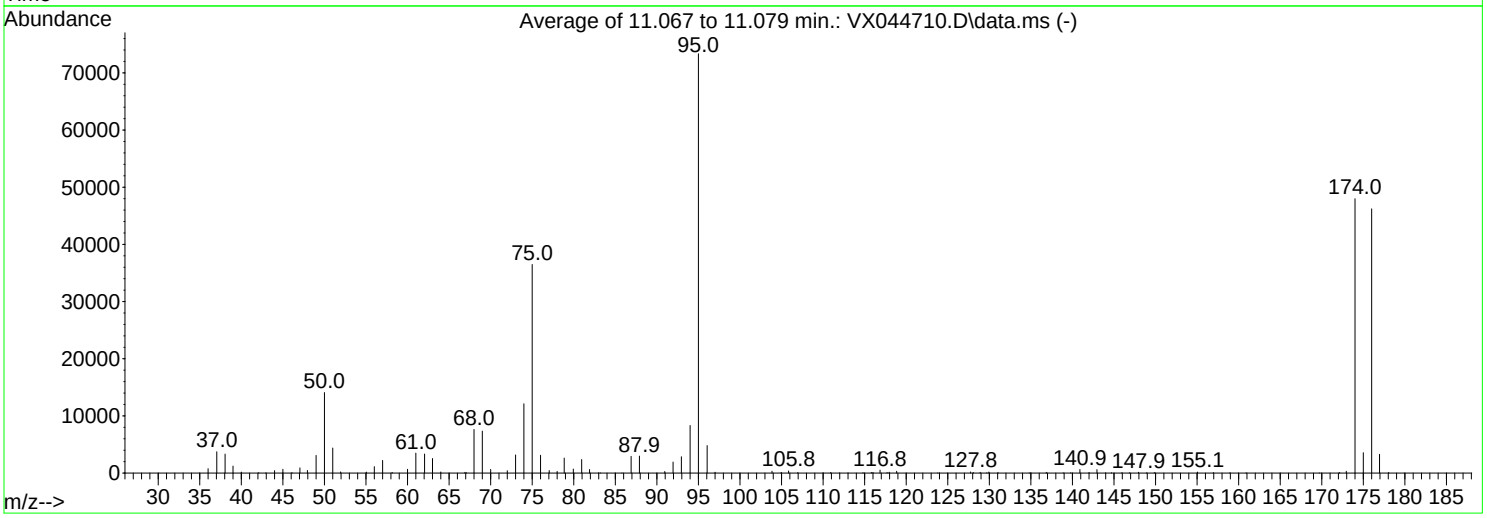
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044710.D
Acq On : 27 Jan 2025 08:47
Operator : JC/MD
Sample : BFB
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
BFB

Integration File: RTEINT.P

Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Title : SW846 8260
Last Update : Thu Jan 16 01:16:09 2025




AutoFind: Scans 1637, 1638, 1639; Background Corrected with Scan 1631

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|---|---|---|---|---|---|---|
| 50 | 95 | 15 | 40 | 19.2 | 14088 | PASS |
| 75 | 95 | 30 | 60 | 49.7 | 36488 | PASS |
| 95 | 95 | 100 | 100 | 100.0 | 73349 | PASS |
| 96 | 95 | 5 | 9 | 6.6 | 4811 | PASS |
| 173 | 174 | 0.00 | 2 | 0.7 | 327 | PASS |
| 174 | 95 | 50 | 100 | 65.4 | 47992 | PASS |
| 175 | 174 | 5 | 9 | 7.4 | 3572 | PASS |
| 176 | 174 | 95 | 101 | 96.3 | 46227 | PASS |
| 177 | 176 | 5 | 9 | 7.1 | 3286 | PASS |

Raw Data: **VX044713.D**

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: | VX0127WBL01 | SDG No.: | Q1173 |
| Lab Sample ID: | VX0127WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044713.D | 1 | | 01/27/25 11:01 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 74-87-3 | Chloromethane | 0.50 | U | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 0.75 | U | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 3.80 | U | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 0.75 | U | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 0.50 | U | 0.34 | 0.50 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 0.75 | U | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 3.80 | U | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 0.50 | U | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 0.50 | U | 0.23 | 0.50 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 2.50 | U | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 0.75 | U | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 0.50 | U | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 0.75 | U | 0.32 | 0.75 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 2.50 | U | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 2.50 | U | 1.10 | 2.50 | 5.00 | ug/L |

Raw Data: **VX044713.D**

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: | VX0127WBL01 | SDG No.: | Q1173 |
| Lab Sample ID: | VX0127WBL01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044713.D | 1 | | 01/27/25 11:01 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 0.50 | U | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 0.50 | U | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 1.00 | U | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 0.50 | U | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 0.50 | U | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 0.50 | U | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 0.50 | U | 0.13 | 0.50 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 0.50 | U | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 0.50 | U | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 0.50 | U | 0.19 | 0.50 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 47.7 | | 81 - 118 | | 95% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 50.5 | | 80 - 119 | | 101% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 54.6 | | 89 - 112 | | 109% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 56.1 | | 85 - 114 | | 112% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 158000 | 5.544 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 315000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 281000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 125000 | 12.018 | | | | |

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_X\Data\VX012725\
Data File : VX044713.D
Acq On : 27 Jan 2025 11:01
Operator : JC/MD
Sample : VX0127WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBL01

Quant Time: Jan 28 04:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

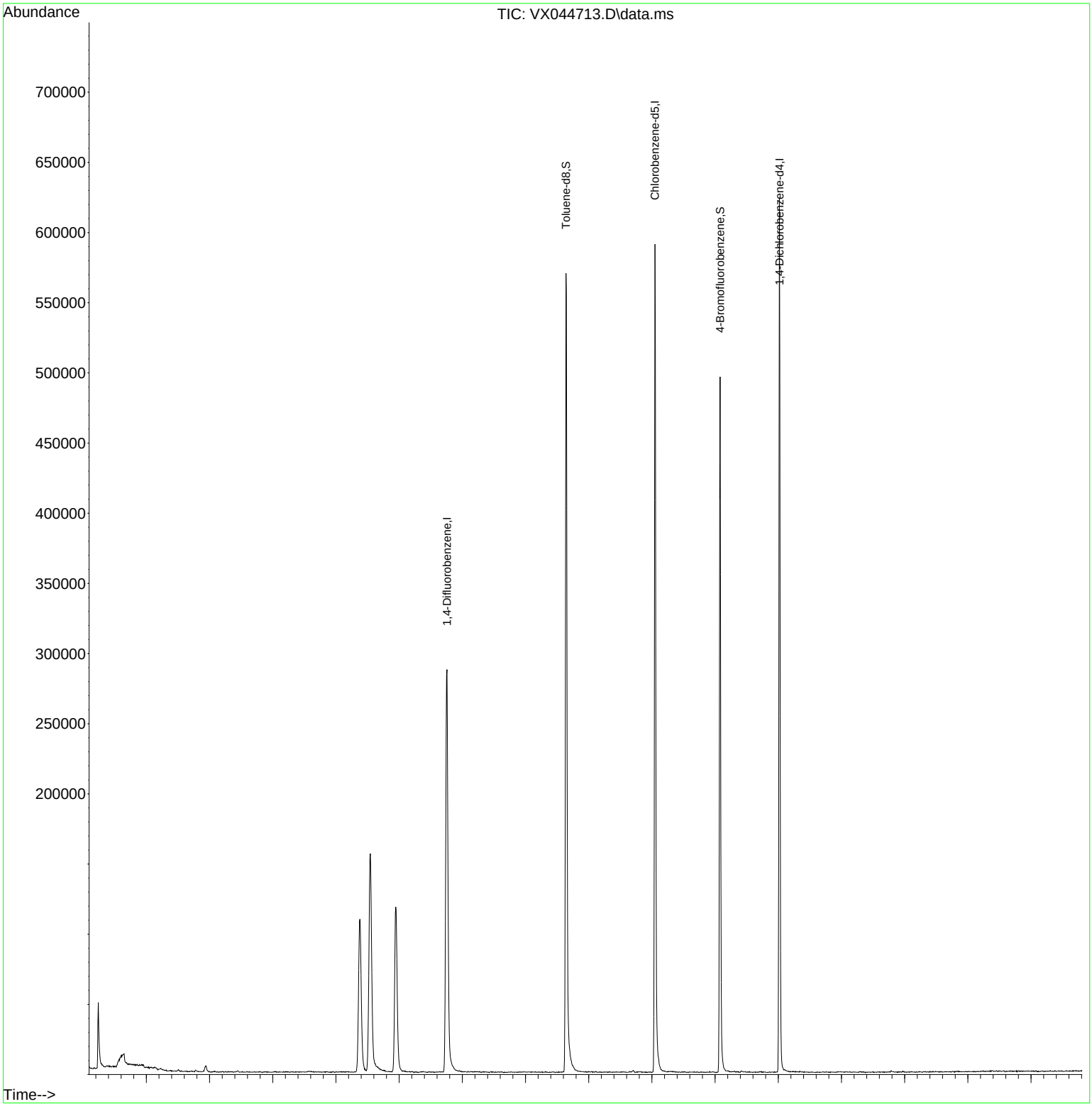
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 158308 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 315173 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 280517 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 124517 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 113965 | 47.693 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 95.380% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 101022 | 50.454 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.900% | | | |
| 50) Toluene-d8 | 8.641 | 98 | 381089 | 54.586 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 109.180% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 146098 | 56.135 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 112.280% | | | |
| Target Compounds | | | | | | Qvalue |

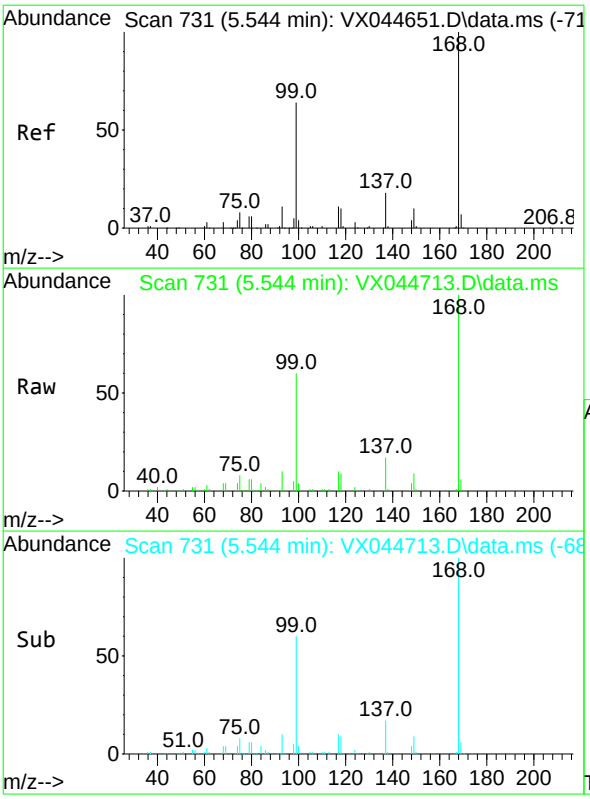
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044713.D
Acq On : 27 Jan 2025 11:01
Operator : JC/MD
Sample : VX0127WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBL01

Quant Time: Jan 28 04:08:04 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



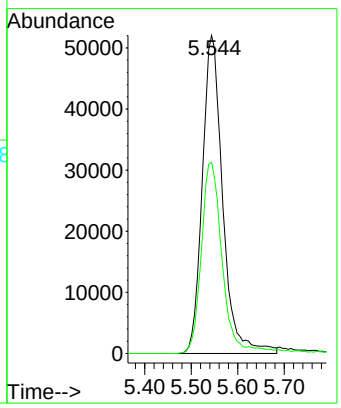


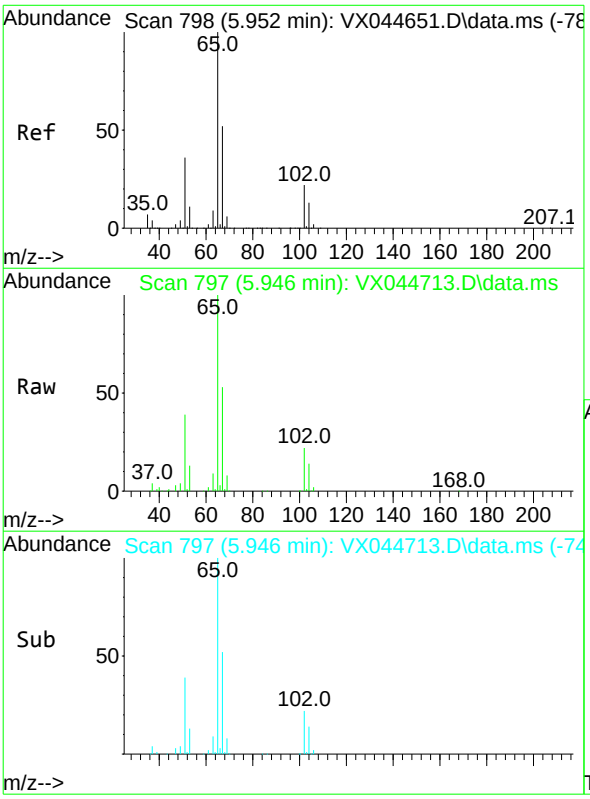

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 73
Delta R.T. -0.000 min
Lab File: VX044713.D
Acq: 27 Jan 2025 11:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBL01

Tgt Ion:168 Resp: 158308

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.1 | 51.1 | 76.7 |

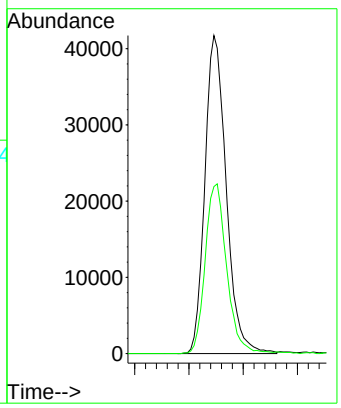


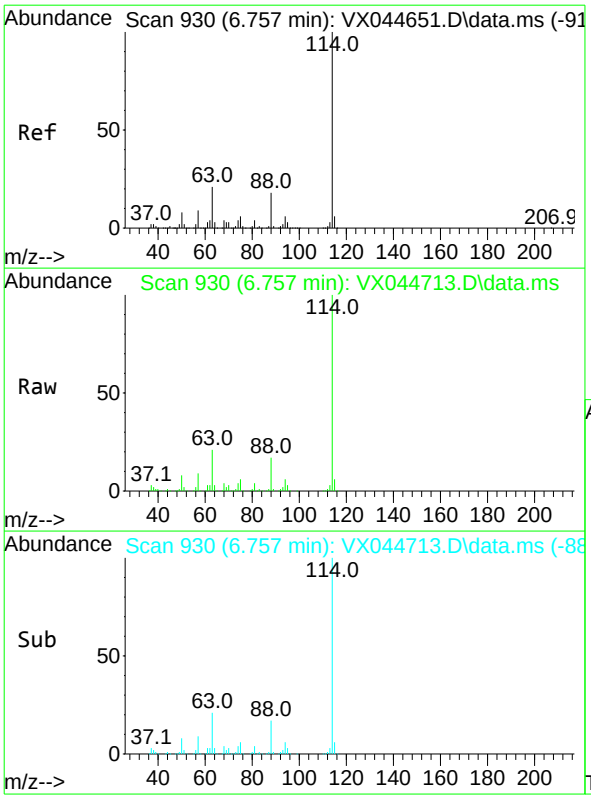




#33
1,2-Dichloroethane-d4
Concen: 47.693 ug/l
RT: 5.946 min Scan# 797
Delta R.T. -0.006 min
Lab File: VX044713.D
Acq: 27 Jan 2025 11:01

Tgt Ion: 65 Resp: 113965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 103.4 |



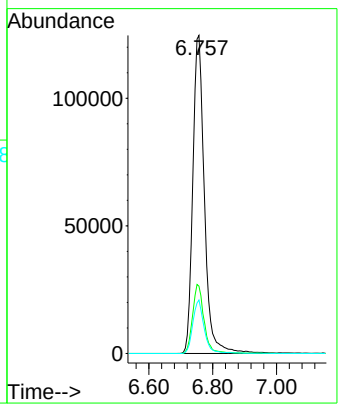


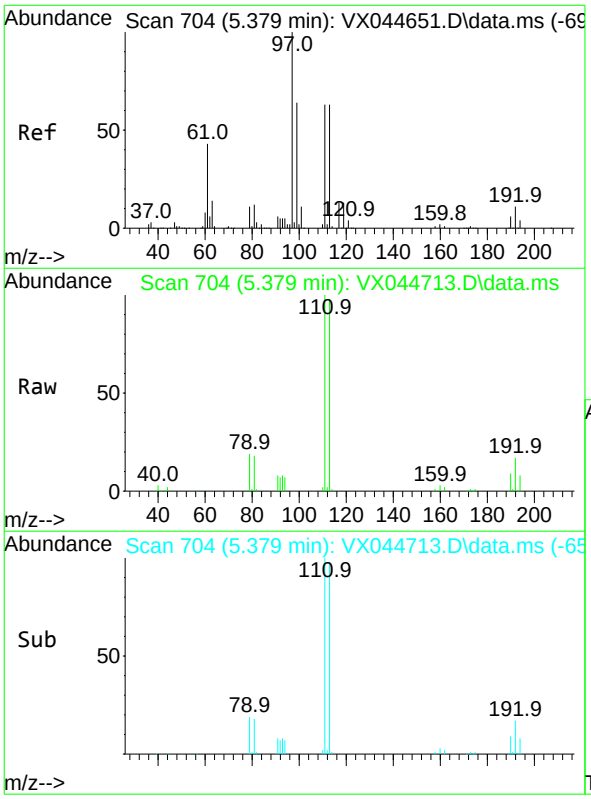

#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 93
Delta R.T. 0.000 min
Lab File: VX044713.D
Acq: 27 Jan 2025 11:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBL01

Tgt Ion:114 Resp: 315173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.2 | 0.0 | 43.0 |
| 88 | 16.8 | 0.0 | 35.4 |

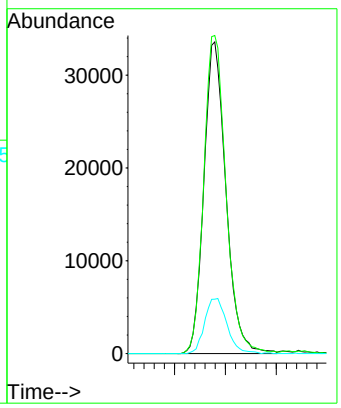


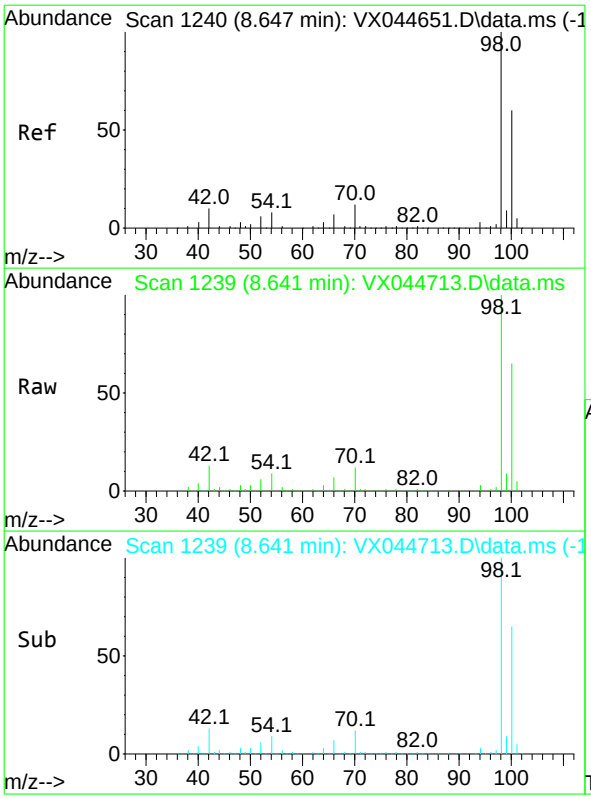




#35
Dibromofluoromethane
Concen: 50.454 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX044713.D
Acq: 27 Jan 2025 11:01

Tgt Ion:113 Resp: 101022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.8 | 81.6 | 122.4 |
| 192 | 17.9 | 14.4 | 21.6 |



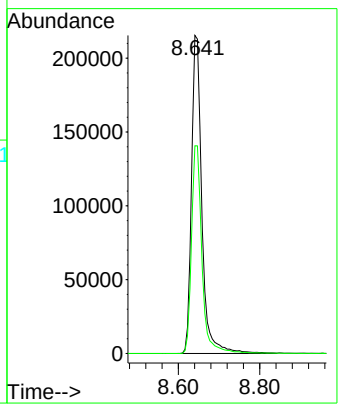


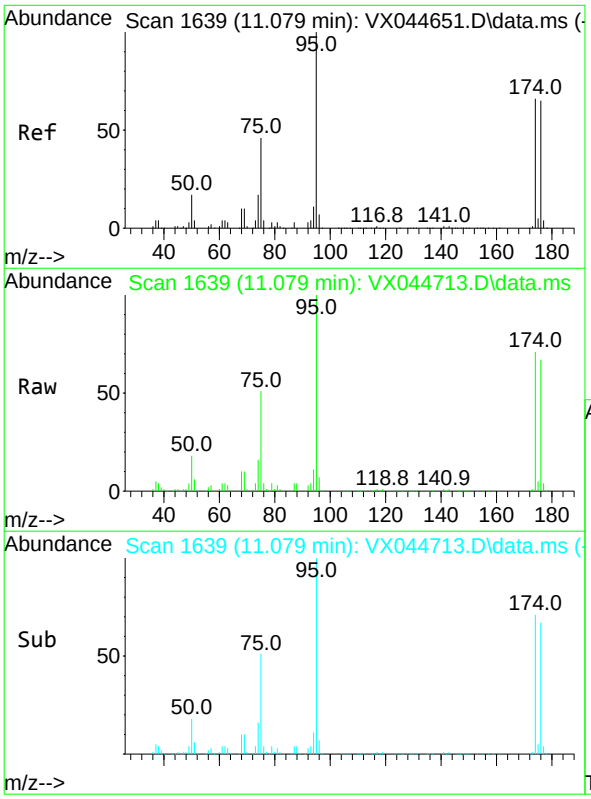

#50
Toluene-d8
Concen: 54.586 ug/l
RT: 8.641 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044713.D
Acq: 27 Jan 2025 11:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBL01

Tgt Ion: 98 Resp: 381089

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.1 | 53.2 | 79.8 |

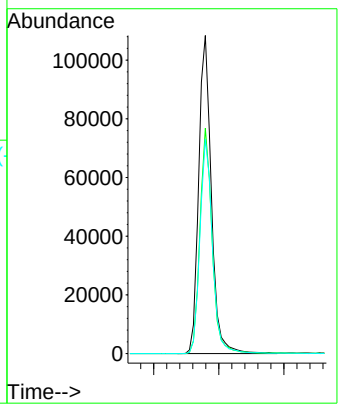


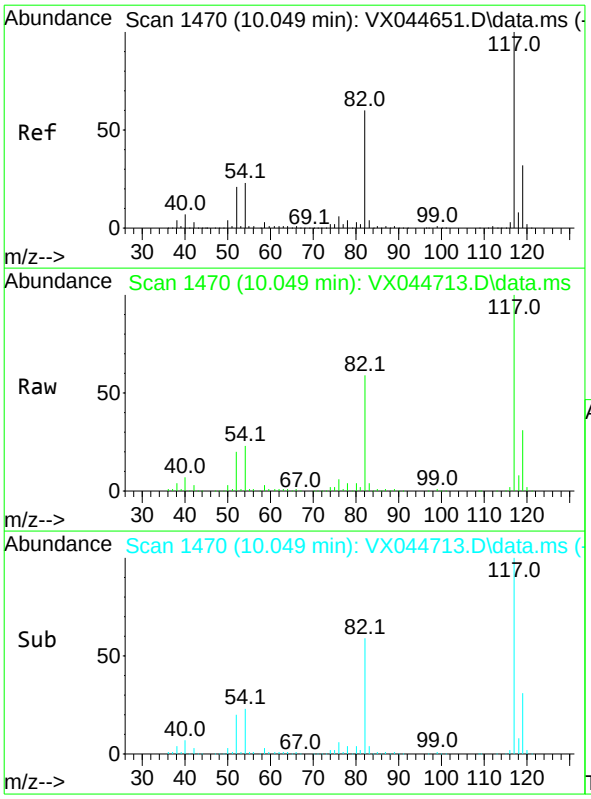




#62
4-Bromofluorobenzene
Concen: 56.135 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044713.D
Acq: 27 Jan 2025 11:01

Tgt Ion: 95 Resp: 146098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 68.4 | 0.0 | 133.0 |
| 176 | 66.7 | 0.0 | 129.4 |



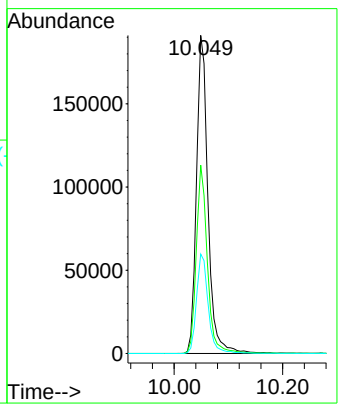


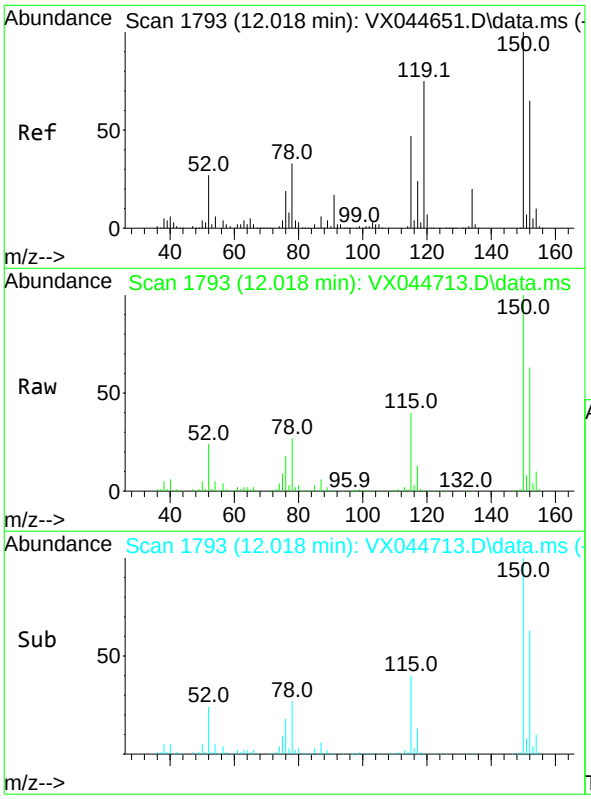

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044713.D
Acq: 27 Jan 2025 11:01

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBL01

Tgt Ion:117 Resp: 280517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.2 | 47.6 | 71.4 |
| 119 | 31.3 | 25.4 | 38.2 |

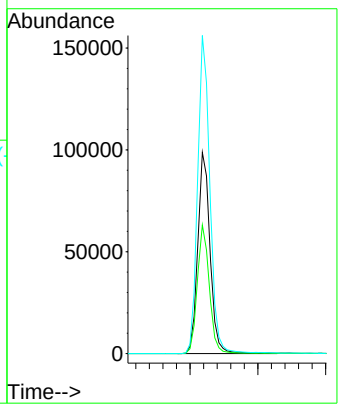



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044713.D
Acq: 27 Jan 2025 11:01

Tgt Ion:152 Resp: 124517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 62.2 | 43.8 | 131.4 |
| 150 | 157.7 | 0.0 | 347.8 |



Sample Results: **VX044713.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044713.D
Acq On : 27 Jan 2025 11:01
Operator : JC/MD
Sample : VX0127WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBL01

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_X\Method\82X011525W.M
Title : SW846 8260

Signal : TIC: VX044713.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.240 | 22 | 25 | 35 | rBV | 46789 | 65332 | 6.49% | 1.247% |
| 2 | 1.569 | 71 | 79 | 80 | rBV4 | 5614 | 10912 | 1.08% | 0.208% |
| 3 | 5.379 | 692 | 704 | 719 | rBV2 | 108960 | 328275 | 32.62% | 6.265% |
| 4 | 5.544 | 721 | 731 | 754 | rBV | 154632 | 471641 | 46.86% | 9.001% |
| 5 | 5.946 | 787 | 797 | 814 | rBV | 117635 | 327686 | 32.56% | 6.254% |
| 6 | 6.757 | 920 | 930 | 953 | rBV | 286911 | 727355 | 72.27% | 13.881% |
| 7 | 8.641 | 1233 | 1239 | 1263 | rBV | 569144 | 1006425 | 100.00% | 19.207% |
| 8 | 10.049 | 1464 | 1470 | 1490 | rBV | 589968 | 864057 | 85.85% | 16.490% |
| 9 | 11.079 | 1633 | 1639 | 1654 | rBV | 495549 | 662534 | 65.83% | 12.644% |
| 10 | 12.018 | 1788 | 1793 | 1804 | rBV | 623012 | 775799 | 77.08% | 14.805% |

Sum of corrected areas: 5240016

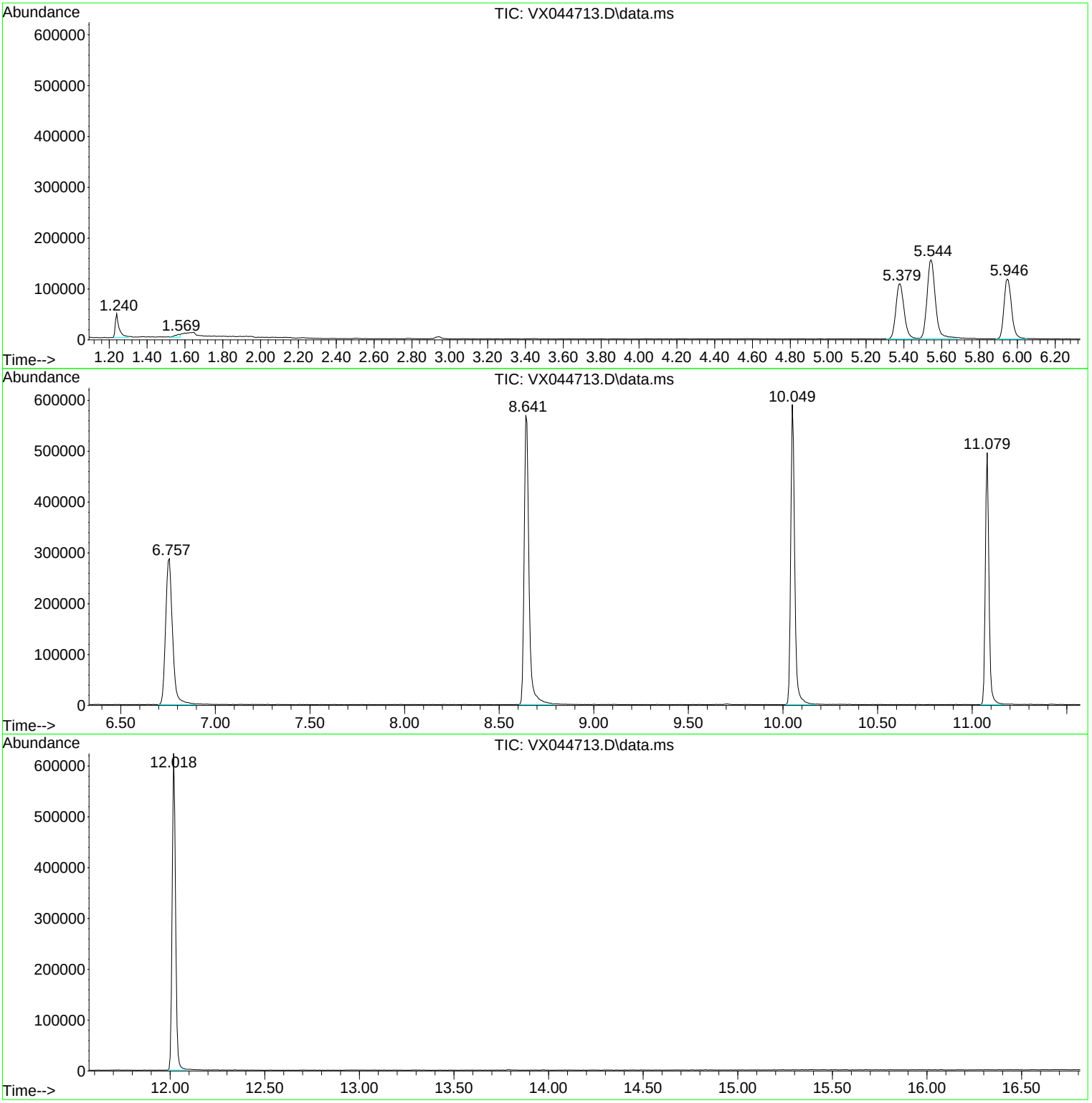
Sample Results: **VX044713.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044713.D
Acq On : 27 Jan 2025 11:01
Operator : JC/MD
Sample : VX0127WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260

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



Sample Results: **VX044713.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044713.D
Acq On : 27 Jan 2025 11:01
Operator : JC/MD
Sample : VX0127WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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_X\Data\VX012725\
Data File : VX044713.D
Acq On : 27 Jan 2025 11:01
Operator : JC/MD
Sample : VX0127WBL01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBL01

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.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: | VX0127WBS01 | SDG No.: | Q1173 |
| Lab Sample ID: | VX0127WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044714.D | 1 | | 01/27/25 11:24 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 74-87-3 | Chloromethane | 19.0 | | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 17.3 | | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 18.9 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 38.1 | | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 16.7 | | 0.34 | 0.50 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 18.4 | | 0.25 | 0.50 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 18.6 | | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 80.8 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 18.4 | | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 17.2 | | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 17.5 | | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 17.5 | | 0.25 | 0.50 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 18.0 | | 0.23 | 0.50 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 90.1 | | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 16.7 | | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 17.4 | | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 17.3 | | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 16.1 | | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 18.3 | | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 18.5 | | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 16.3 | | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 17.5 | | 0.32 | 0.75 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 18.6 | | 0.19 | 0.50 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 17.0 | | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 95.9 | | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 18.3 | | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 17.2 | | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 17.5 | | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 18.3 | | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 95.6 | | 1.10 | 2.50 | 5.00 | ug/L |

Raw Data: **VX044714.D**

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: | VX0127WBS01 | SDG No.: | Q1173 |
| Lab Sample ID: | VX0127WBS01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044714.D | 1 | | 01/27/25 11:24 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 17.2 | | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 18.7 | | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 18.6 | | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 18.6 | | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 38.0 | | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 18.6 | | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 19.2 | | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 17.7 | | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 17.8 | | 0.13 | 0.50 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.0 | | 0.27 | 0.50 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 18.4 | | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 18.2 | | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 18.1 | | 0.19 | 0.50 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 41.6 | | 81 - 118 | | 83% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 45.8 | | 80 - 119 | | 92% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.4 | | 89 - 112 | | 97% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.8 | | 85 - 114 | | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 195000 | 5.543 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 349000 | 6.757 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 295000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 132000 | 12.018 | | | | |

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

Sample Results: **VX044714.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044714.D
Acq On : 27 Jan 2025 11:24
Operator : JC/MD
Sample : VX0127WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 28 04:08:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 5.543 | 168 | 194501 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 349402 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 294902 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 132232 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 122056 | 41.574 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 83.140% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 101687 | 45.811 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 91.620% | | | |
| 50) Toluene-d8 | 8.640 | 98 | 374408 | 48.375 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 96.760% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 134911 | 46.759 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 93.520% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 44749 | 17.097 | ug/l | 97 |
| 3) Chloromethane | 1.300 | 50 | 53678 | 18.965 | ug/l | 98 |
| 4) Vinyl Chloride | 1.373 | 62 | 48425 | 17.316 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 12630 | 18.914 | ug/l | 98 |
| 6) Chloroethane | 1.666 | 64 | 19537 | 38.097 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.873 | 101 | 51664 | 16.716 | ug/l | 100 |
| 8) Diethyl Ether | 2.129 | 74 | 17567 | 14.084 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 2.318 | 101 | 42834 | 18.436 | ug/l | 97 |
| 10) Methyl Iodide | 2.446 | 142 | 52896 | 16.675 | ug/l | 98 |
| 11) Tert butyl alcohol | 2.977 | 59 | 51998 | 79.447 | ug/l # | 84 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 42270 | 18.561 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 21403 | 69.491 | ug/l | 99 |
| 14) Allyl chloride | 2.660 | 41 | 77088 | 17.385 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 116149 | 90.479 | ug/l | 100 |
| 16) Acetone | 2.379 | 43 | 93908 | 80.848 | ug/l | 99 |
| 17) Carbon Disulfide | 2.501 | 76 | 114283 | 18.390 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 64807 | 18.085 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 141970 | 17.211 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 47323 | 17.495 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 41613 | 17.501 | ug/l | 98 |
| 22) Diisopropyl ether | 3.757 | 45 | 145799 | 18.916 | ug/l | 95 |
| 23) Vinyl Acetate | 3.715 | 43 | 610713 | 90.524 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 82157 | 17.974 | ug/l | 100 |
| 25) 2-Butanone | 4.556 | 43 | 155565 | 90.078 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.464 | 77 | 70010 | 15.804 | ug/l | 96 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 52012 | 17.390 | ug/l | 98 |
| 28) Bromochloromethane | 4.891 | 49 | 39674 | 18.575 | ug/l | 95 |
| 29) Tetrahydrofuran | 5.001 | 42 | 100494 | 90.213 | ug/l | 98 |
| 30) Chloroform | 5.086 | 83 | 79982 | 17.339 | ug/l | 99 |
| 31) Cyclohexane | 5.464 | 56 | 74004 | 20.018 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 68369 | 16.122 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 54103 | 17.510 | ug/l | 99 |
| 37) Ethyl Acetate | 4.714 | 43 | 59455 | 18.069 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 58196 | 16.744 | ug/l | 99 |
| 39) Methylcyclohexane | 7.372 | 83 | 75160 | 18.324 | ug/l | 100 |
| 40) Benzene | 6.031 | 78 | 177558 | 18.544 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044714.D
Acq On : 27 Jan 2025 11:24
Operator : JC/MD
Sample : VX0127WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 28 04:08:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc Units | | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 33769 | 17.612 ug/l | | 99 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 56940 | 16.294 ug/l | | 99 |
| 43) Isopropyl Acetate | 6.336 | 43 | 106960 | 17.670 ug/l | | 99 |
| 44) Trichloroethene | 7.122 | 130 | 40285 | 17.501 ug/l | | 97 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 44906 | 18.632 ug/l | | 99 |
| 46) Dibromomethane | 7.580 | 93 | 31751 | 17.306 ug/l | | 98 |
| 47) Bromodichloromethane | 7.817 | 83 | 64021 | 17.015 ug/l | | 99 |
| 48) Methyl methacrylate | 7.689 | 41 | 50455 | 17.957 ug/l | | 98 |
| 49) 1,4-Dioxane | 7.659 | 88 | 22357 | 381.373 ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 320897 | 95.928 ug/l | | 99 |
| 52) Toluene | 8.714 | 92 | 107306 | 18.310 ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 66983 | 17.231 ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 73698 | 17.484 ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 9.146 | 97 | 43335 | 18.277 ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 73260 | 17.970 ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 73374 | 18.173 ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 155542 | 77.714 ug/l | | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 235185 | 95.563 ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 47865 | 17.200 ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 43546 | 17.525 ug/l | | 99 |
| 64) Tetrachloroethene | 9.268 | 164 | 34603 | 18.686 ug/l | | 96 |
| 65) Chlorobenzene | 10.073 | 112 | 116677 | 18.627 ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 39444 | 17.327 ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 203496 | 18.619 ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 154315 | 38.048 ug/l | | 97 |
| 69) o-Xylene | 10.640 | 106 | 76225 | 18.584 ug/l | | 100 |
| 70) Styrene | 10.652 | 104 | 127161 | 19.202 ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 32859 | 17.735 ug/l | # | 100 |
| 73) Isopropylbenzene | 10.957 | 105 | 192068 | 17.780 ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 92250 | 17.326 ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 67283 | 18.034 ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 54906m | 17.110 ug/l | | |
| 77) Bromobenzene | 11.195 | 156 | 44539 | 17.640 ug/l | | 97 |
| 78) n-propylbenzene | 11.299 | 91 | 218400 | 18.333 ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 137301 | 17.842 ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 158002 | 17.967 ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 23991 | 17.096 ug/l | | 95 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 153401 | 18.197 ug/l | | 97 |
| 83) tert-Butylbenzene | 11.713 | 119 | 162534 | 17.676 ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 159915 | 17.895 ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 197899 | 18.485 ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 159273 | 18.102 ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 80761 | 18.444 ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 80443 | 18.173 ug/l | | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 140139 | 18.544 ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 33393 | 16.760 ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 81242 | 18.066 ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75 | 13195 | 14.461 ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 47294 | 17.593 ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 18173 | 17.210 ug/l | | 97 |
| 95) Naphthalene | 13.774 | 128 | 184203 | 17.766 ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 49087 | 17.616 ug/l | | 99 |

Sample Results: **VX044714.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044714.D
Acq On : 27 Jan 2025 11:24
Operator : JC/MD
Sample : VX0127WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

Quant Time: Jan 28 04:08:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

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

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

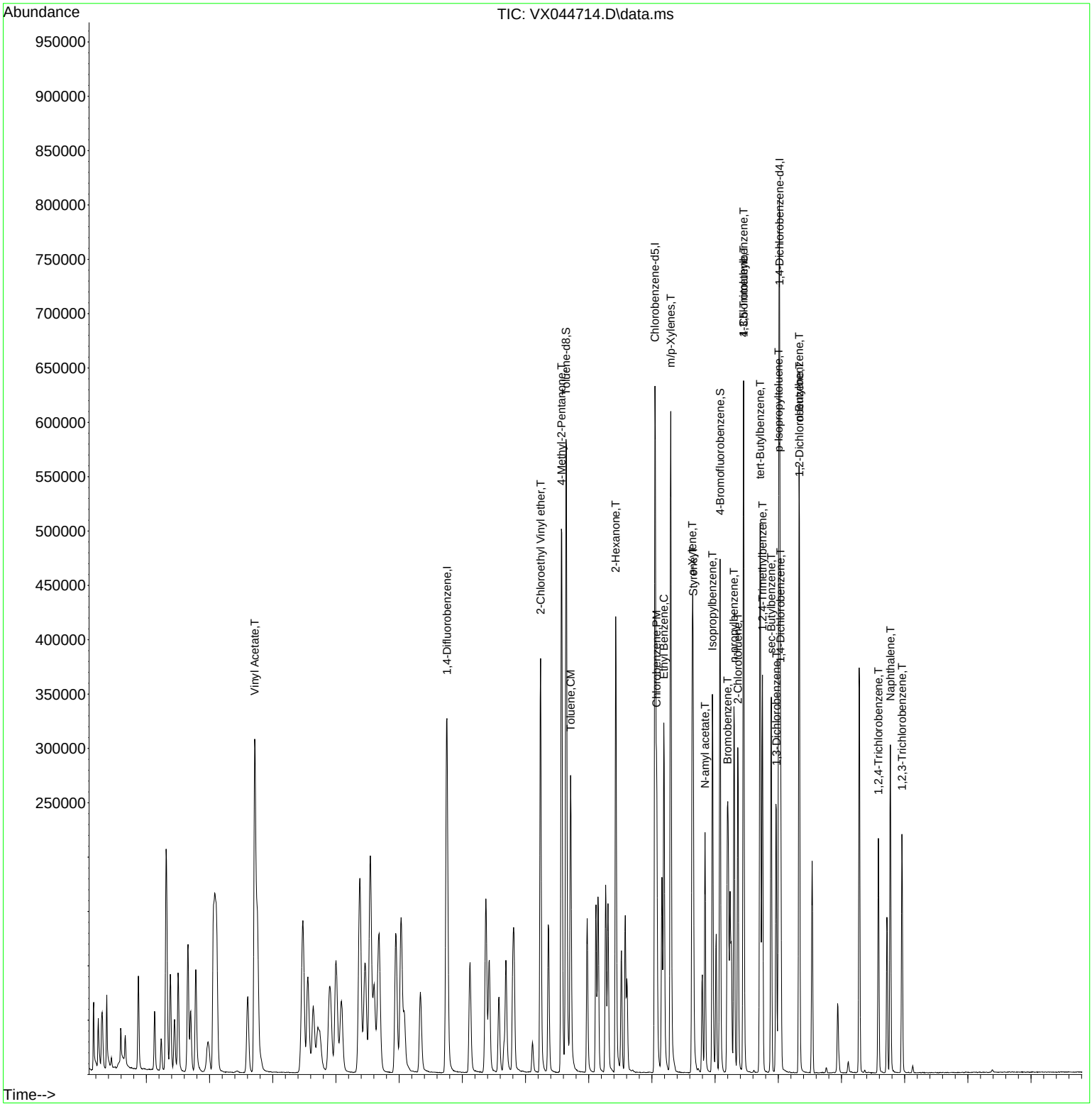
Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044714.D
Acq On : 27 Jan 2025 11:24
Operator : JC/MD
Sample : VX0127WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

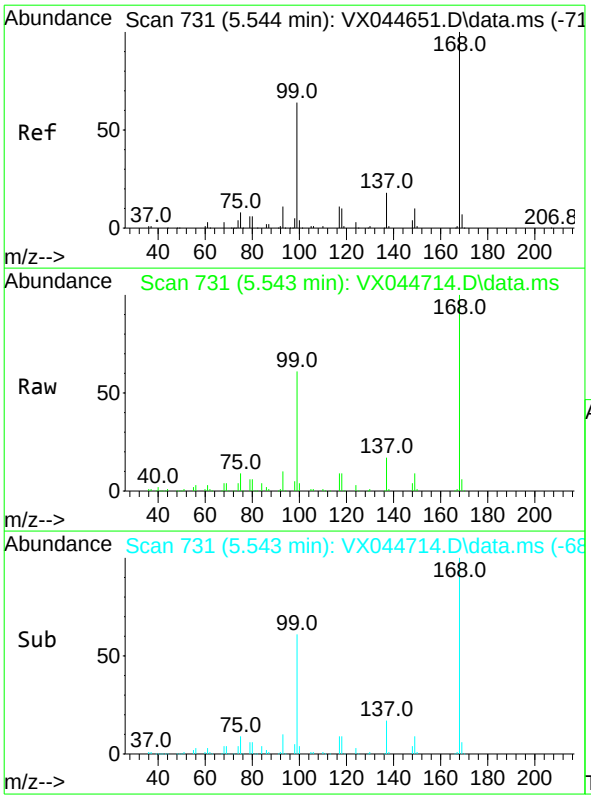
Quant Time: Jan 28 04:08:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

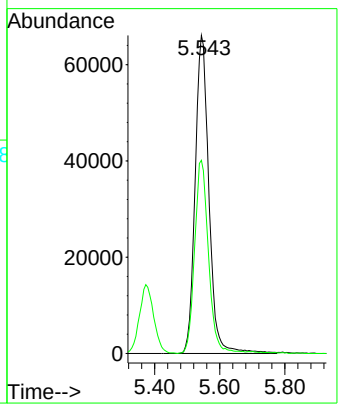





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 73
Delta R.T. -0.001 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:168 Resp: 194501

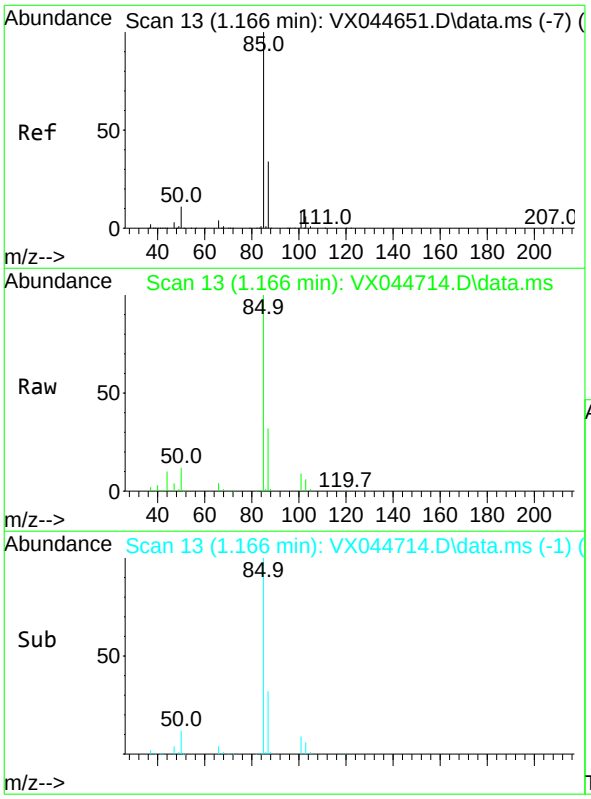
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.8 | 51.1 | 76.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

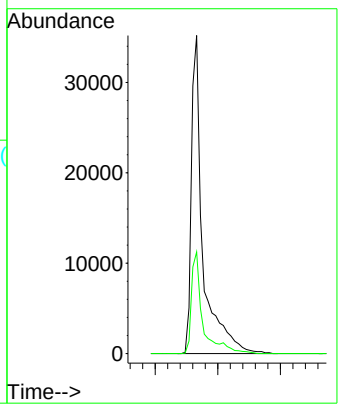
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

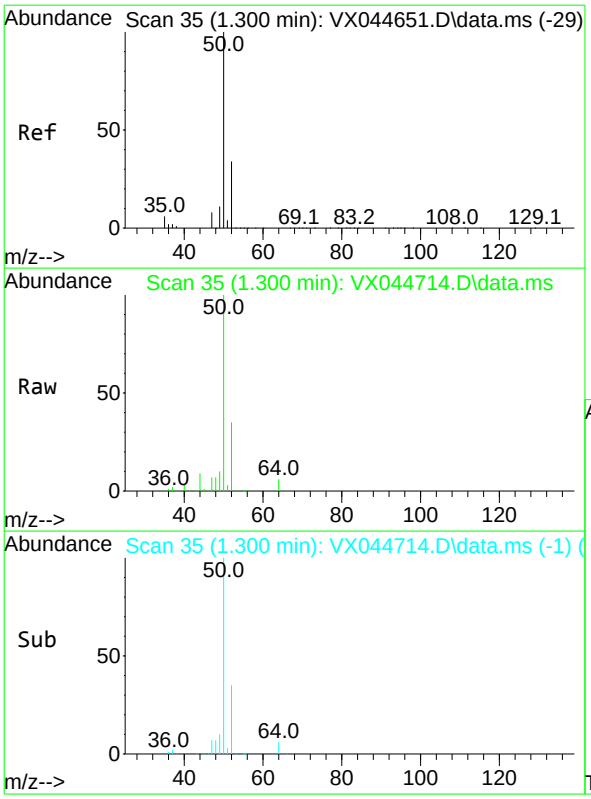



#2
Dichlorodifluoromethane
Concen: 17.097 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 85 Resp: 44749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.0 | 16.8 | 50.4 |

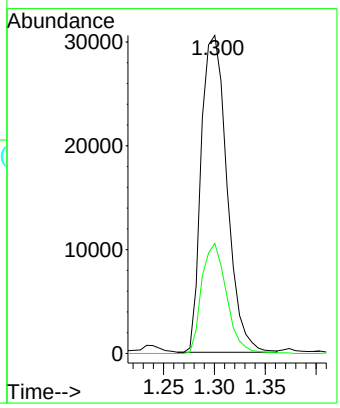





#3
Chloromethane
Concen: 18.965 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 50 Resp: 53678

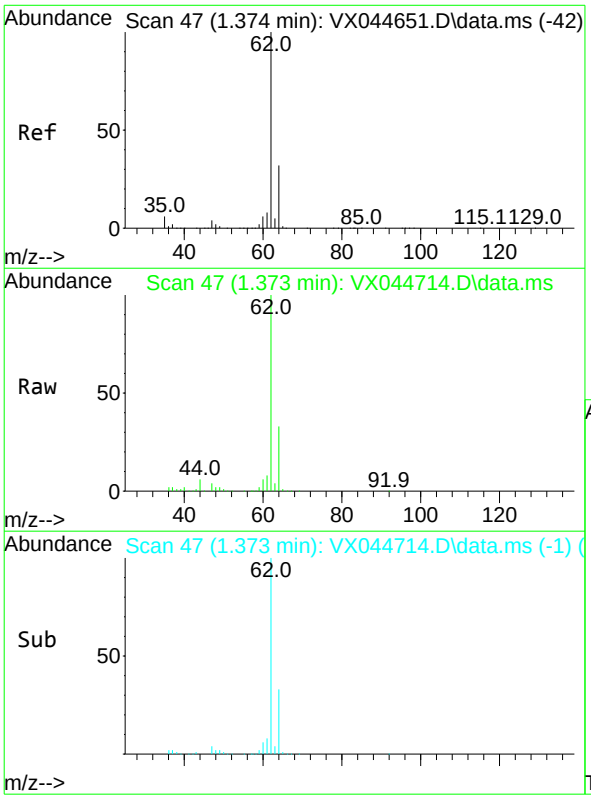
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.7 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

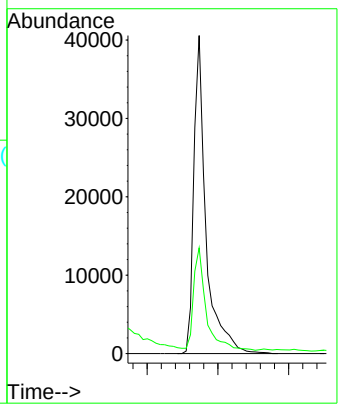
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

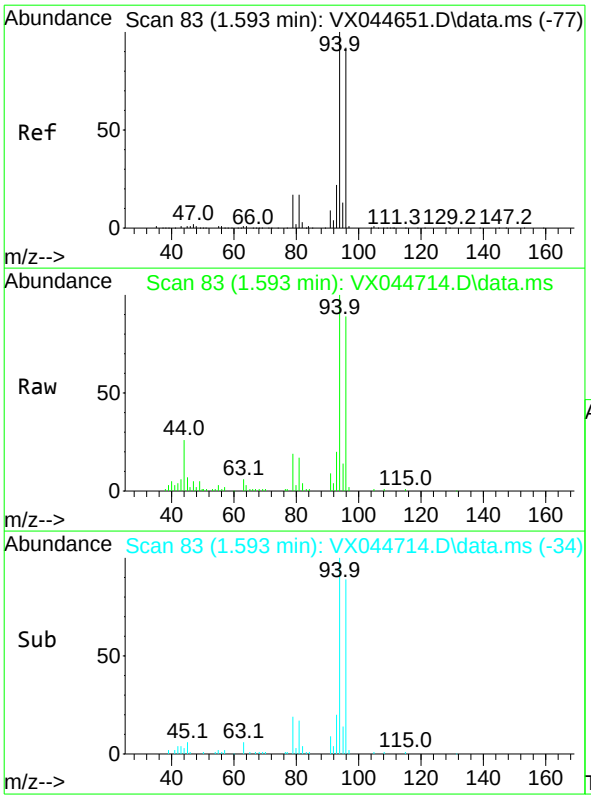



#4
Vinyl Chloride
Concen: 17.316 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 62 Resp: 48425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.0 | 26.6 | 39.8 |

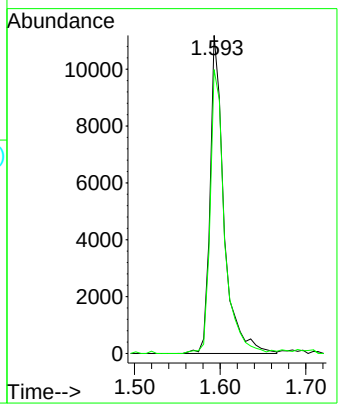





#5
Bromomethane
Concen: 18.914 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 94 Resp: 12630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.3 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
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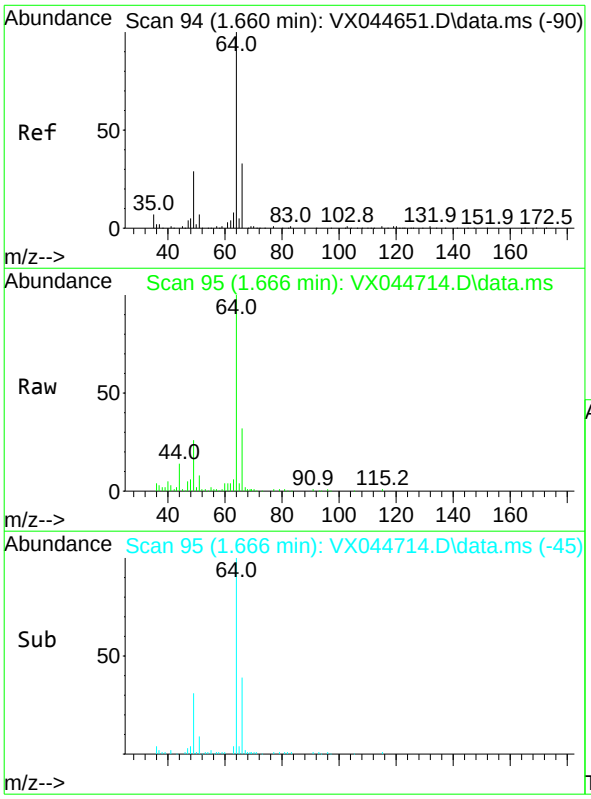
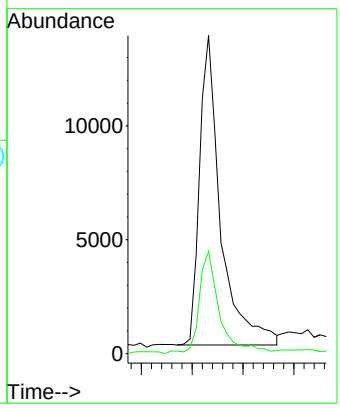
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

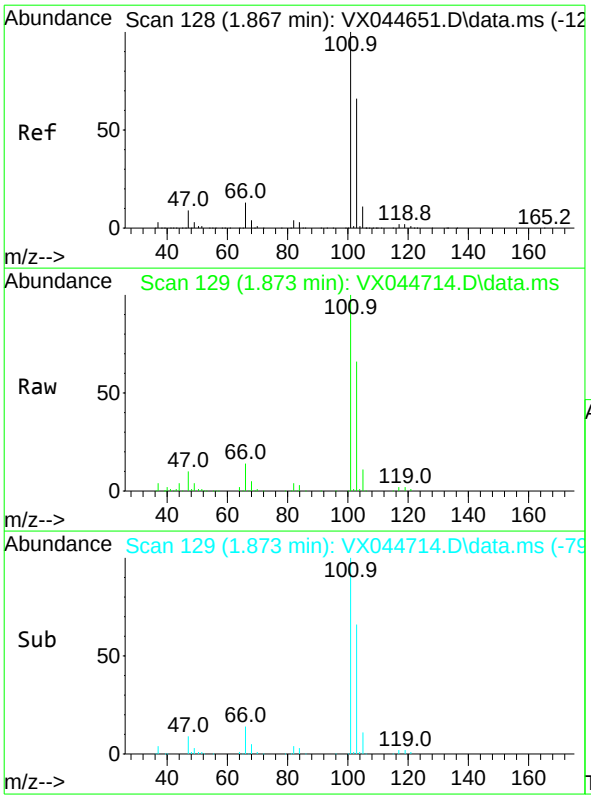



#6
Chloroethane
Concen: 38.097 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 64 Resp: 19537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.3 | 26.6 | 39.8 |

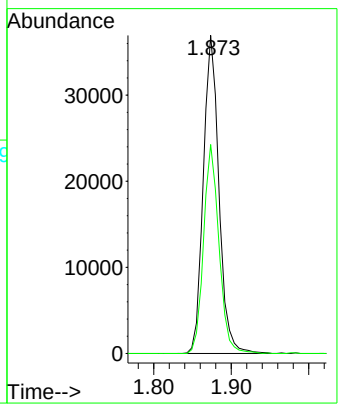





#7
Trichlorofluoromethane
Concen: 16.716 ug/l
RT: 1.873 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:101 Resp: 51664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.7 | 52.5 | 78.7 |




**Instrument :**
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Reviewed By :John Carlone 01/28/2025
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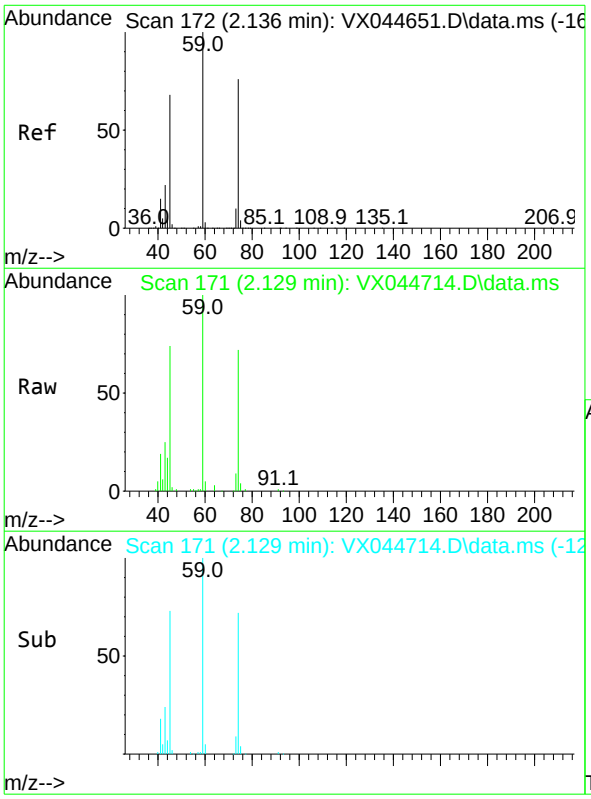
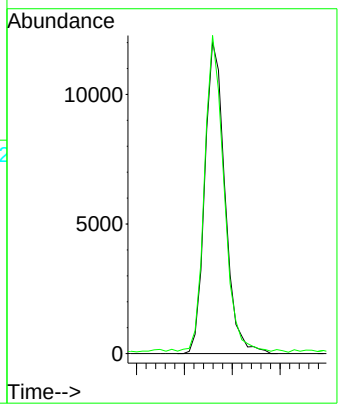
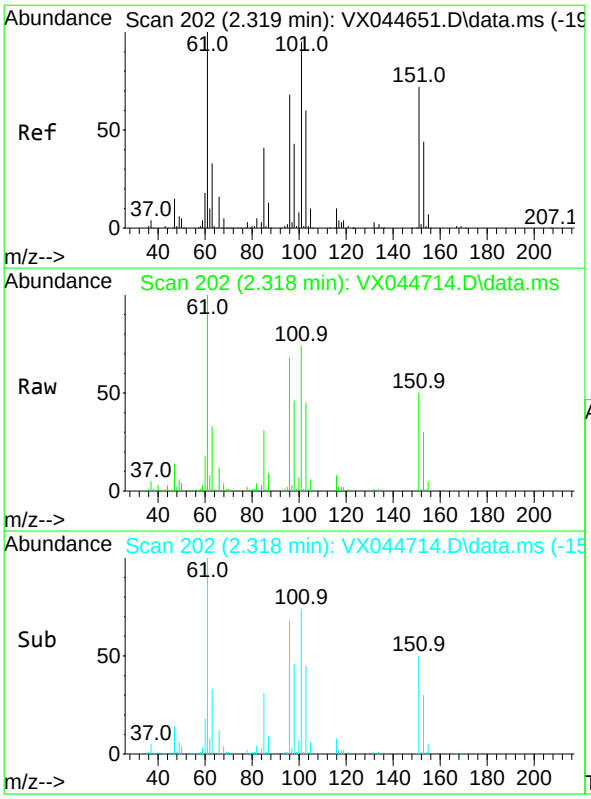



#8
Diethyl Ether
Concen: 14.084 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 74 Resp: 17567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.8 | 47.1 | 141.3 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.436 ug/l
RT: 2.318 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:101 Resp: 42834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.2 | 35.3 | 52.9 |
| 151 | 69.9 | 58.2 | 87.4 |

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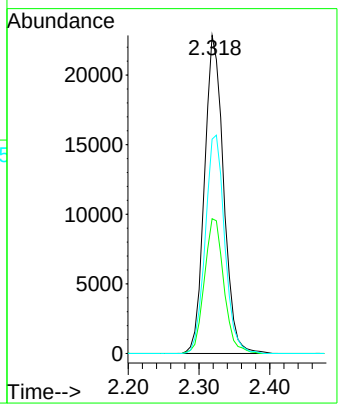
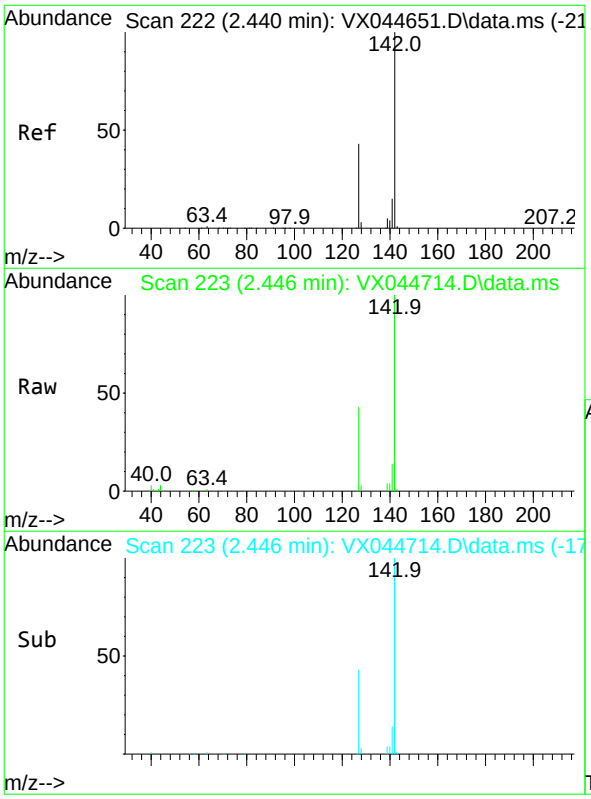
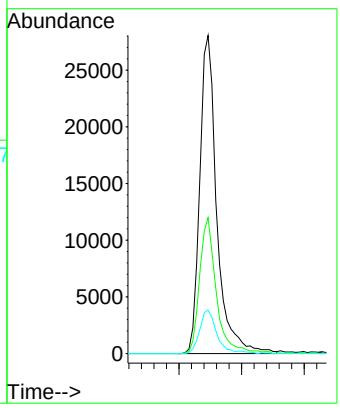


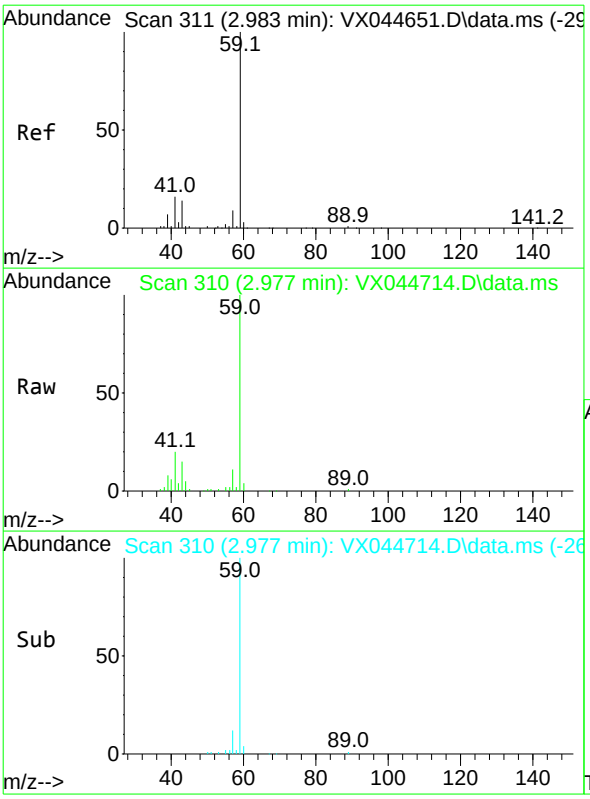




#10
Methyl Iodide
Concen: 16.675 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:142 Resp: 52896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 42.0 | 35.0 | 52.4 |
| 141 | 13.9 | 11.7 | 17.5 |

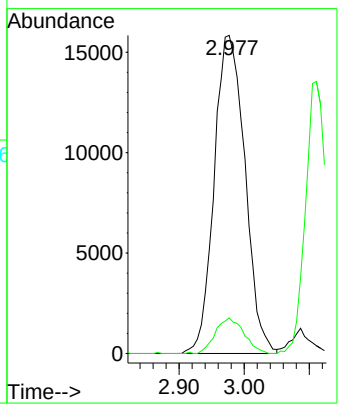





#11
Tert butyl alcohol
Concen: 79.447 ug/l
RT: 2.977 min Scan# 31
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 59 Resp: 51998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 3.9 | 5.9# |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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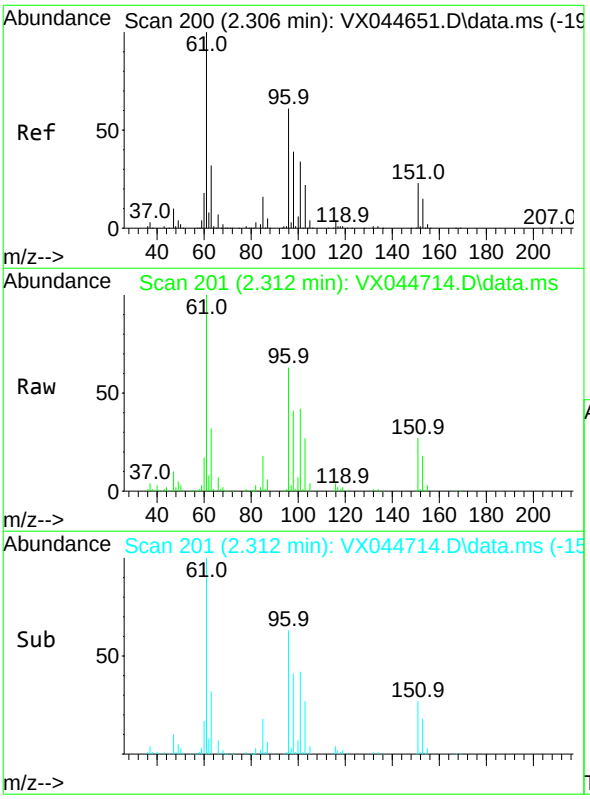
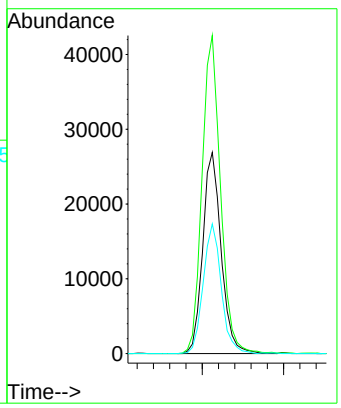
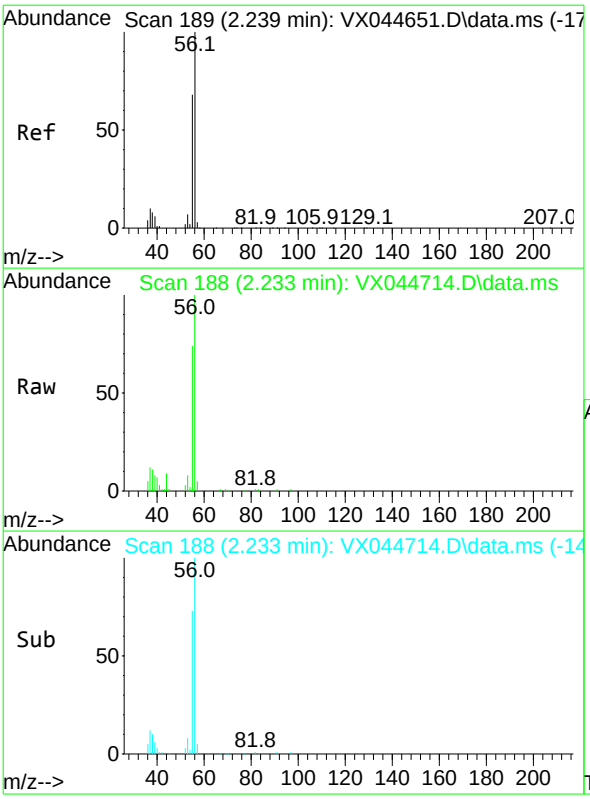



#12
1,1-Dichloroethene
Concen: 18.561 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 96 Resp: 42270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.1 | 131.1 | 196.7 |
| 98 | 64.5 | 51.2 | 76.8 |

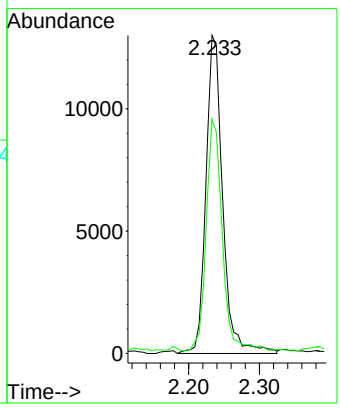





#13
Acrolein
Concen: 69.491 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 56 Resp: 21403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.7 | 55.1 | 82.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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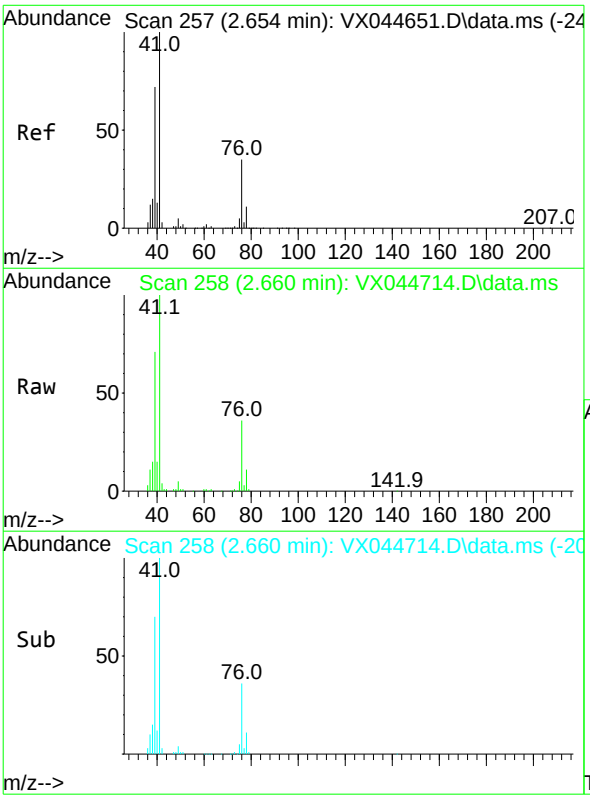
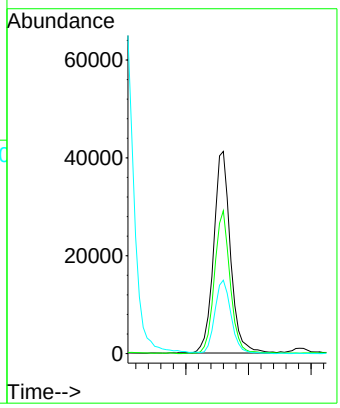
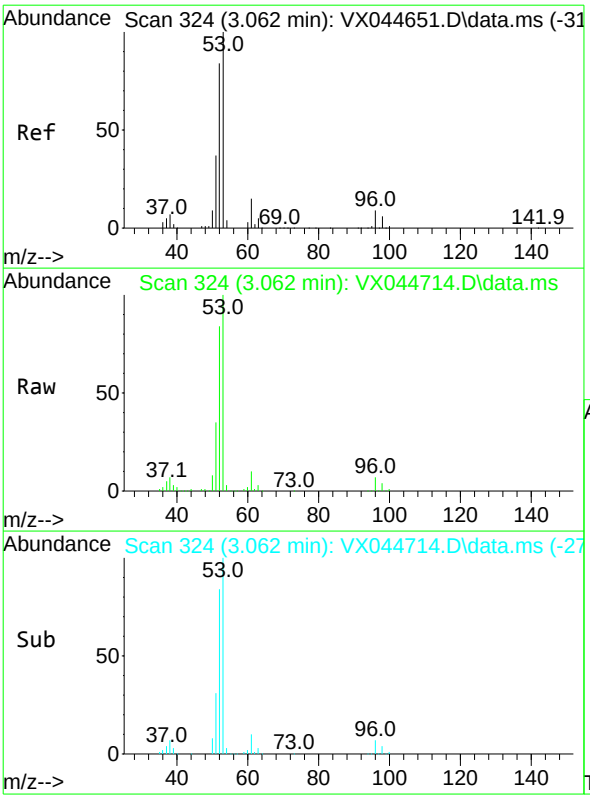



#14
Allyl chloride
Concen: 17.385 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 41 Resp: 77088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.4 | 54.9 | 82.3 |
| 76 | 35.1 | 28.4 | 42.6 |

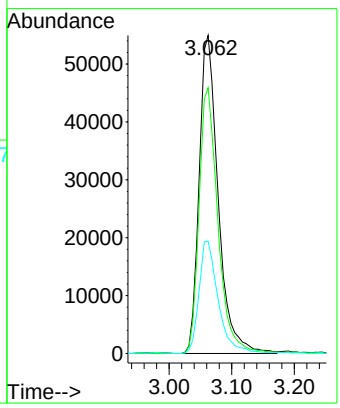





#15
Acrylonitrile
Concen: 90.479 ug/l
RT: 3.062 min Scan# 32
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 53 Resp: 116149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.8 | 66.0 | 99.0 |
| 51 | 35.7 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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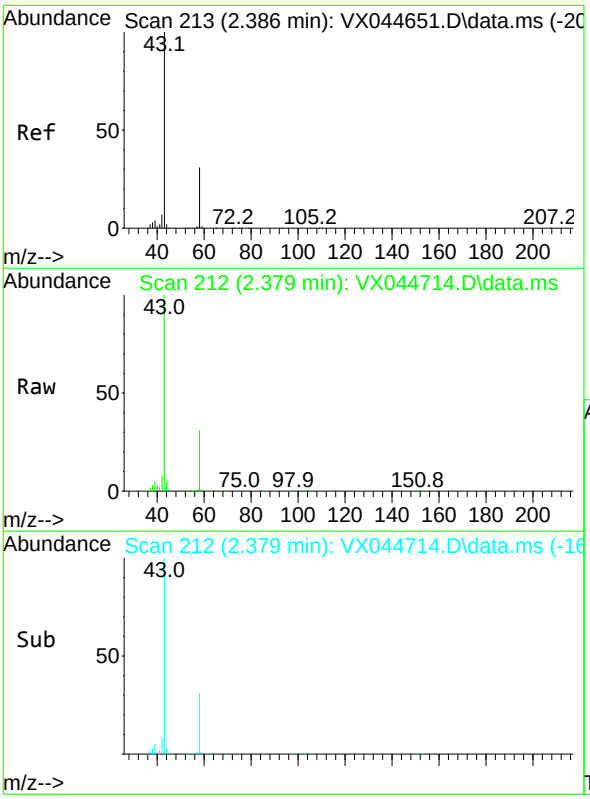
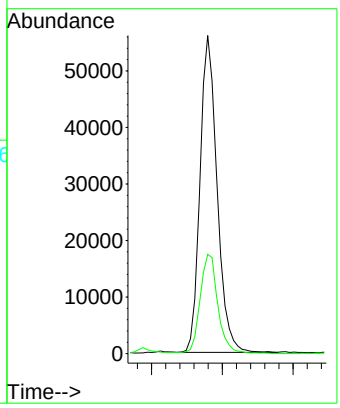
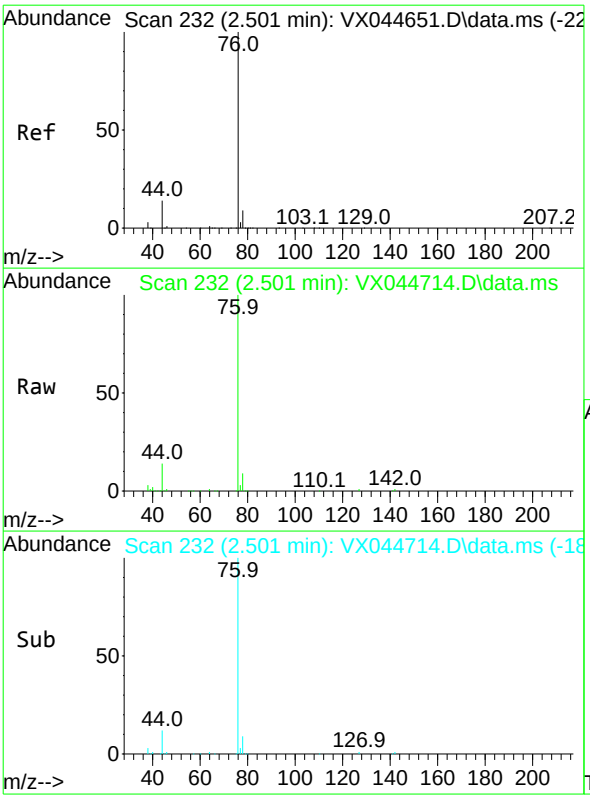



#16
Acetone
Concen: 80.848 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 43 Resp: 93908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.3 | 24.6 | 37.0 |

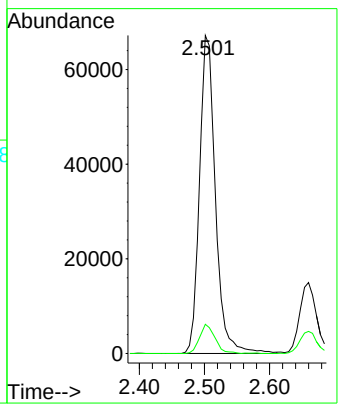





#17
Carbon Disulfide
Concen: 18.390 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 76 Resp: 114283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.1 | 10.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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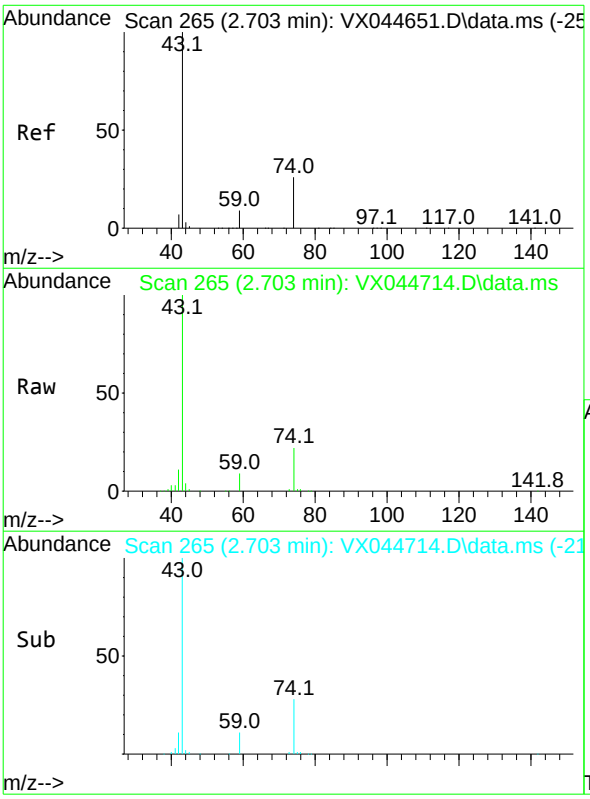
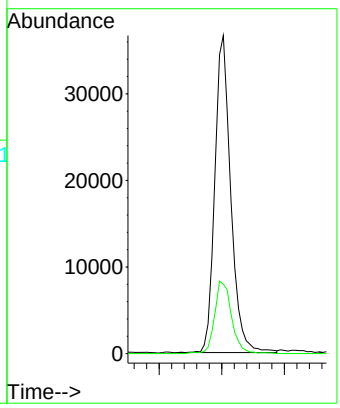
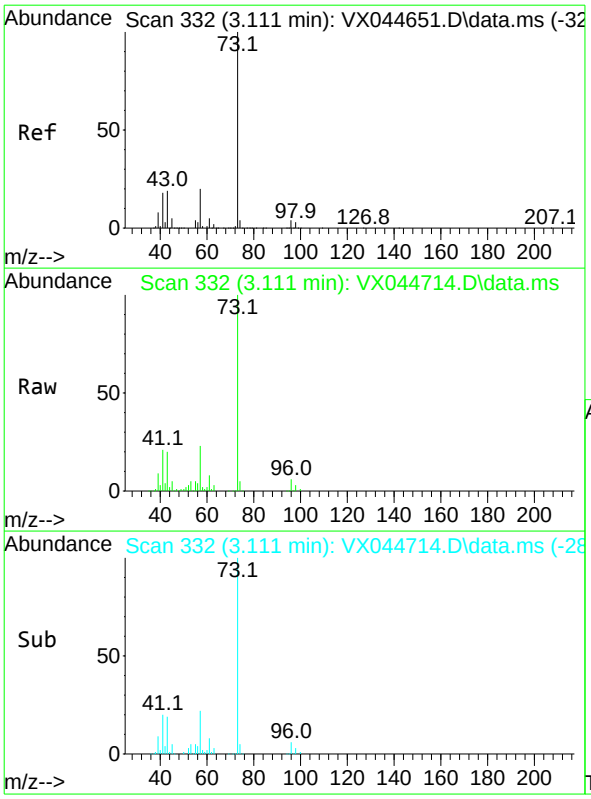



#18
Methyl Acetate
Concen: 18.085 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 43 Resp: 64807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.4 | 19.8 | 29.8 |

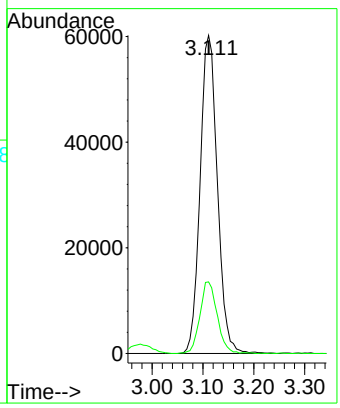





#19
Methyl tert-butyl Ether
Concen: 17.211 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 73 Resp: 141970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.5 | 17.4 | 26.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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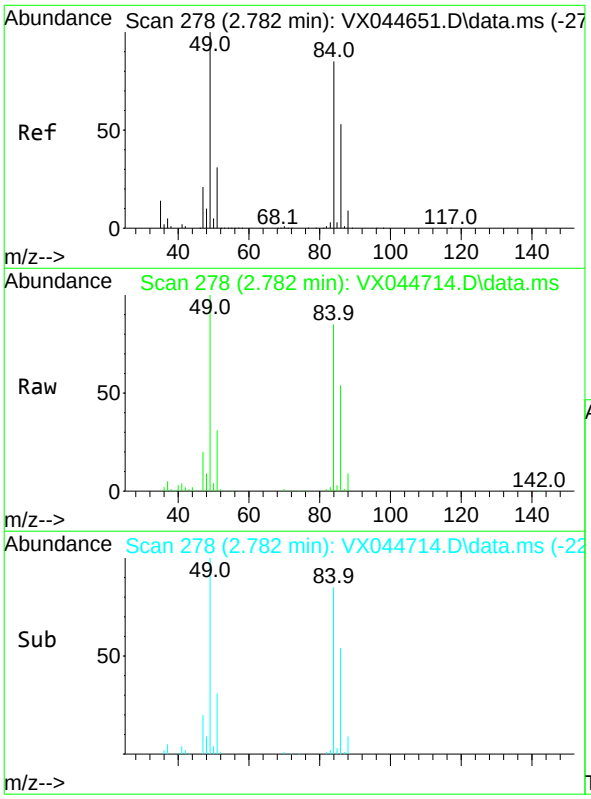
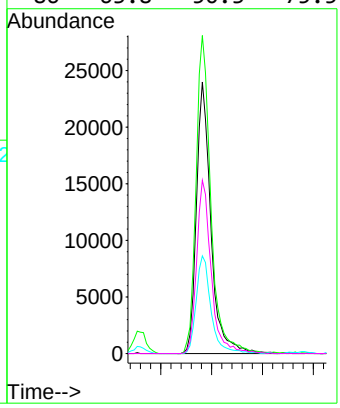
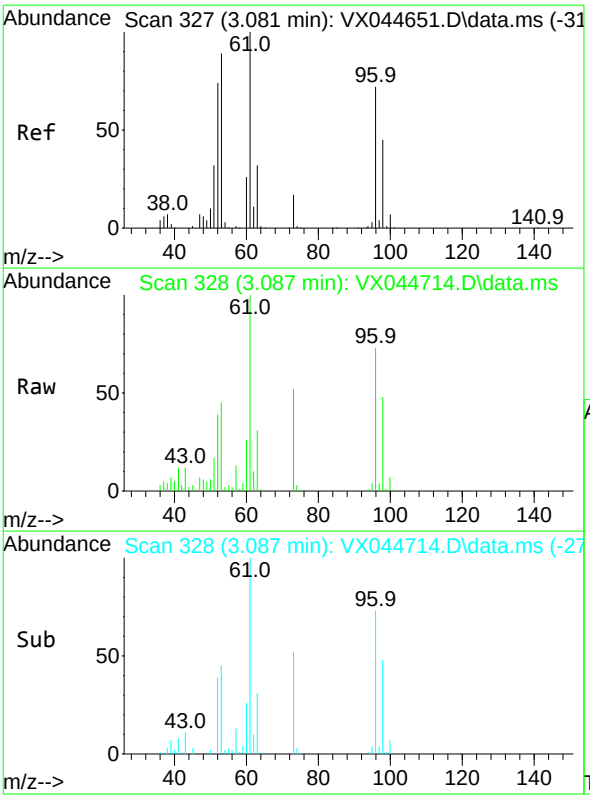



#20
Methylene Chloride
Concen: 17.495 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 84 Resp: 47323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.1 | 94.2 | 141.4 |
| 51 | 36.0 | 28.8 | 43.2 |
| 86 | 63.8 | 50.3 | 75.5 |

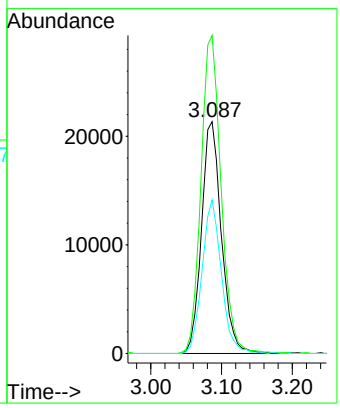





#21
trans-1,2-Dichloroethene
Concen: 17.501 ug/l
RT: 3.087 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 96 Resp: 41613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.2 | 111.0 | 166.6 |
| 98 | 66.2 | 50.2 | 75.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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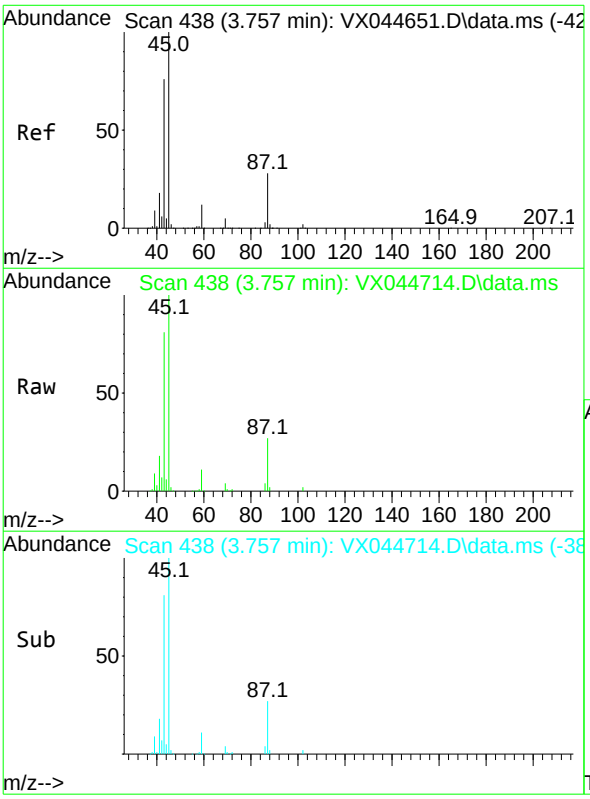
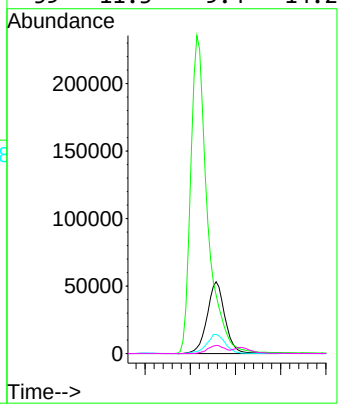
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

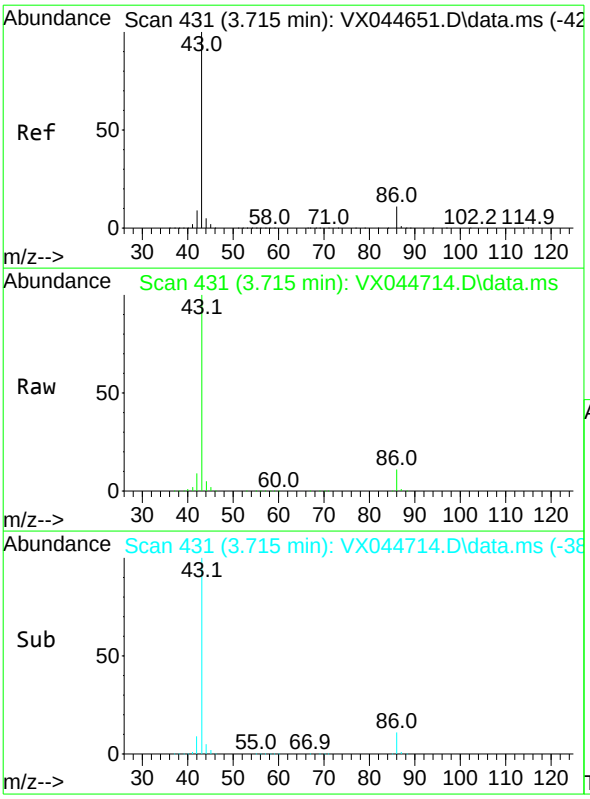



#22
Diisopropyl ether
Concen: 18.916 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 45 Resp: 145799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 81.0 | 61.0 | 91.6 |
| 87 | 26.6 | 22.7 | 34.1 |
| 59 | 11.3 | 9.4 | 14.2 |






#23
Vinyl Acetate
Concen: 90.524 ug/l
RT: 3.715 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

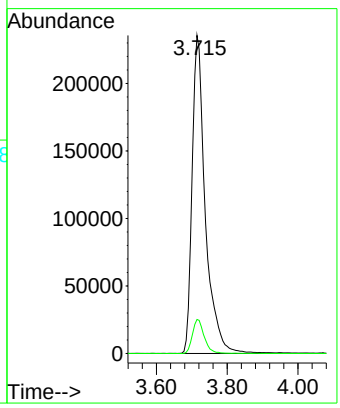
Tgt Ion: 43 Resp: 610713

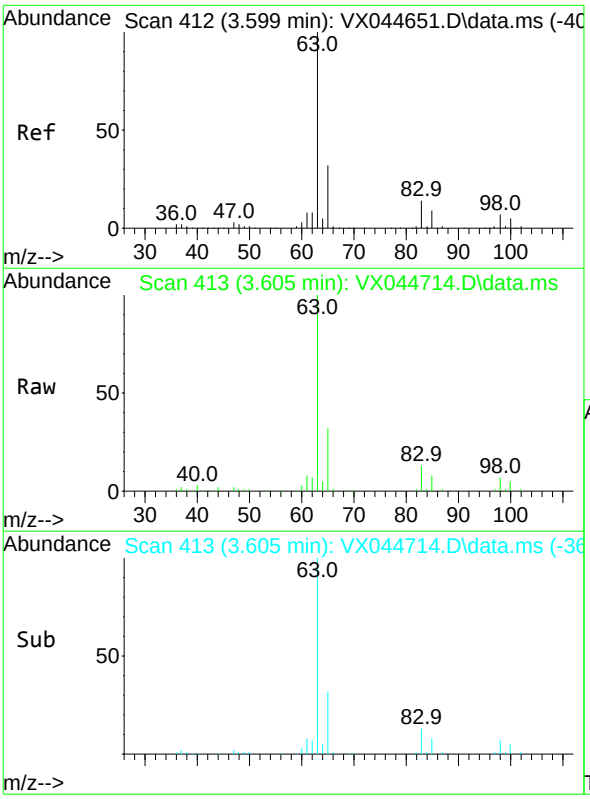
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.7 | 8.9 | 13.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

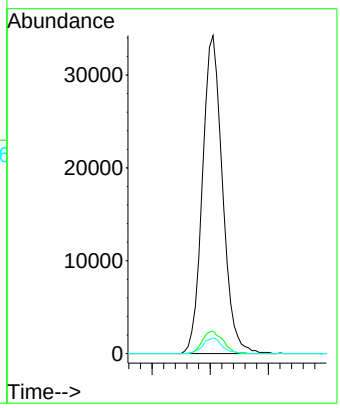


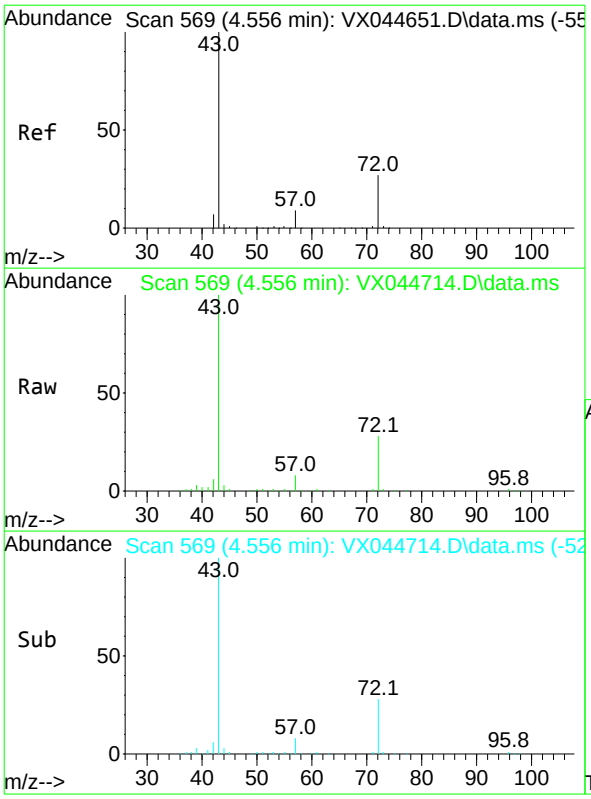




#24
1,1-Dichloroethane
Concen: 17.974 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 63 Resp: 82157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.6 | 10.9 |
| 100 | 4.9 | 2.5 | 7.5 |

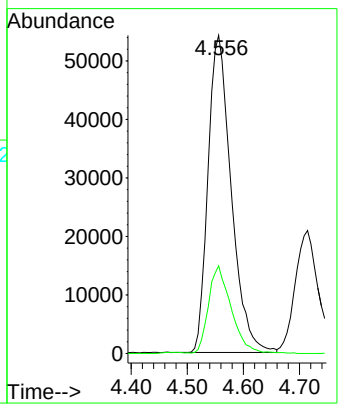





#25
2-Butanone
Concen: 90.078 ug/l
RT: 4.556 min Scan# 56
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 43 Resp: 155565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.4 | 21.7 | 32.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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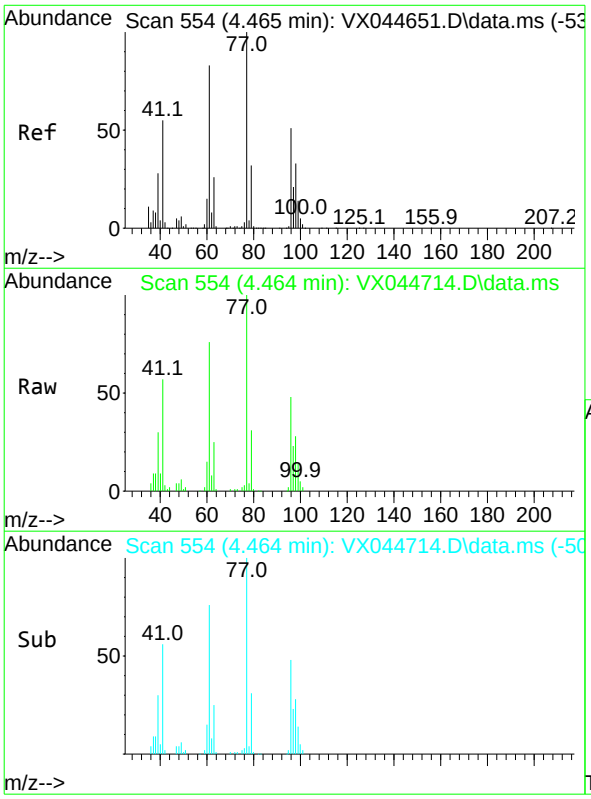
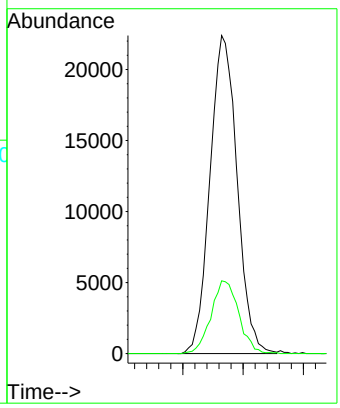
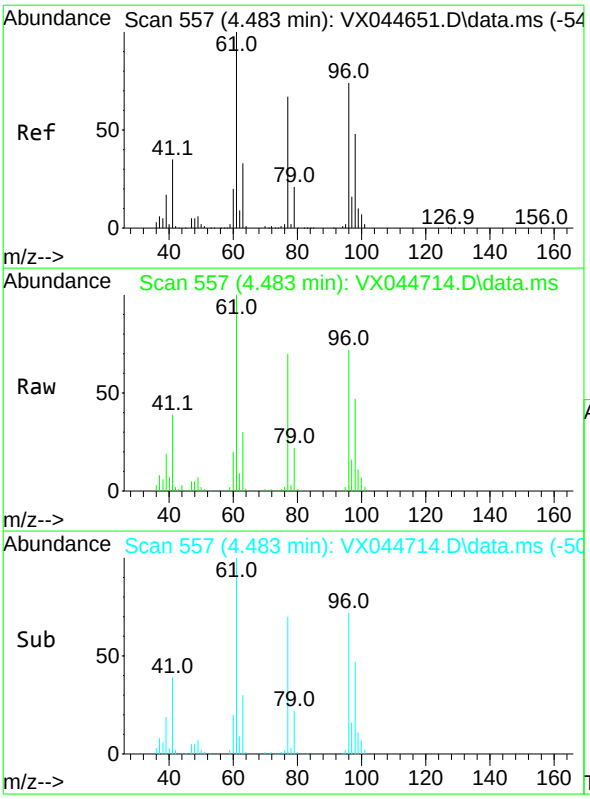



#26
2,2-Dichloropropane
Concen: 15.804 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 77 Resp: 70010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.4 | 10.9 | 32.6 |






#27
cis-1,2-Dichloroethene
Concen: 17.390 ug/l
RT: 4.483 min Scan# 55
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 96 Resp: 52012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.6 | 0.0 | 296.0 |
| 98 | 64.3 | 0.0 | 130.0 |

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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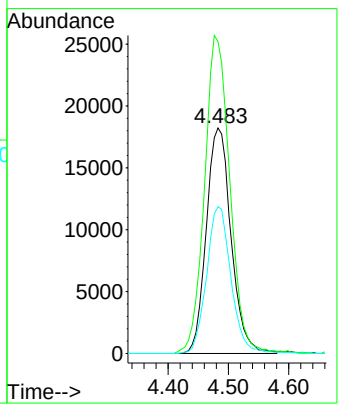
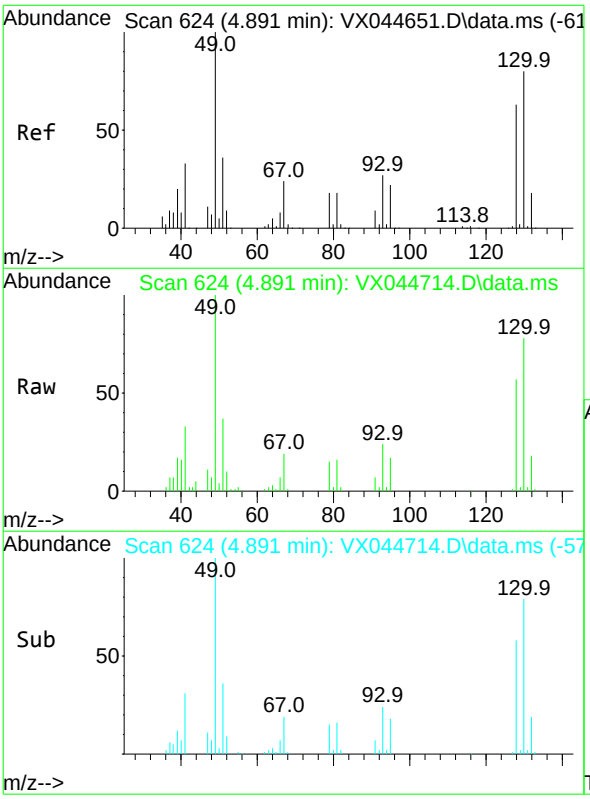
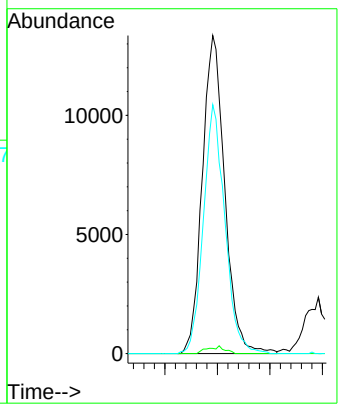


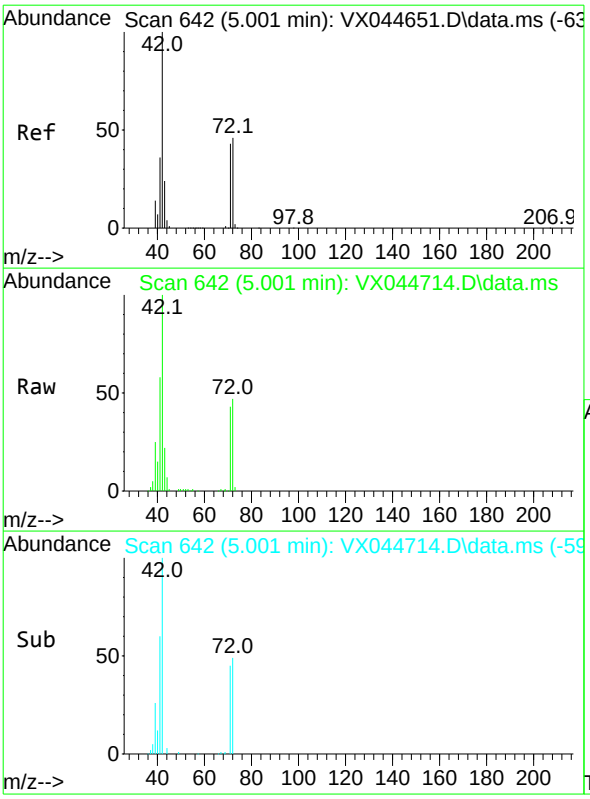




#28
Bromochloromethane
Concen: 18.575 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 49 Resp: 39674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.4 |
| 130 | 74.9 | 63.4 | 95.2 |






#29
Tetrahydrofuran
Concen: 90.213 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 42 Resp: 100494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.0 | 38.2 | 57.4 |
| 71 | 42.8 | 35.3 | 52.9 |

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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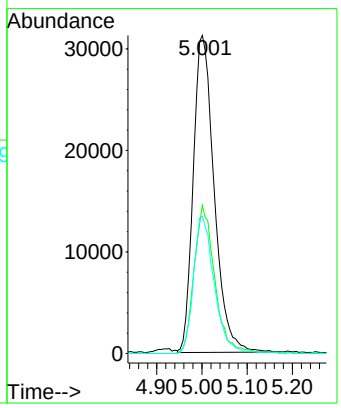
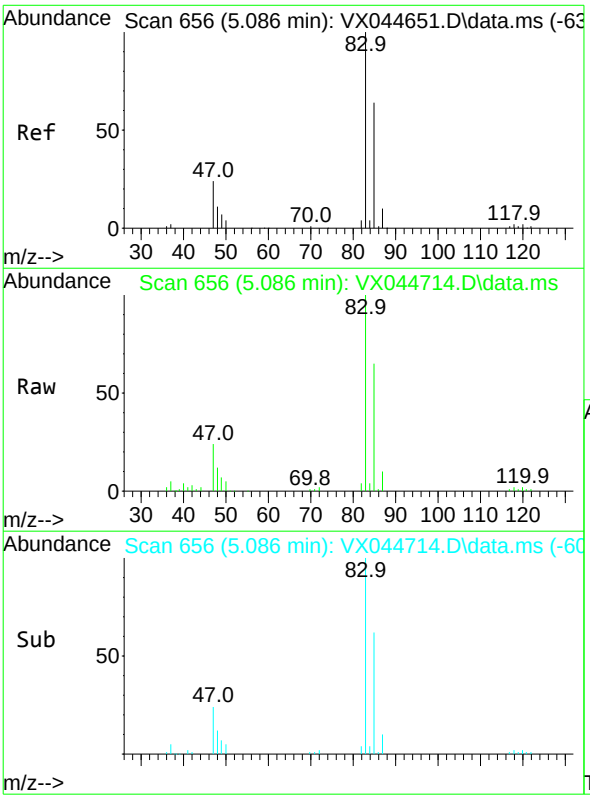
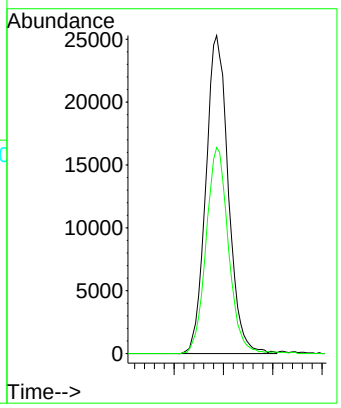


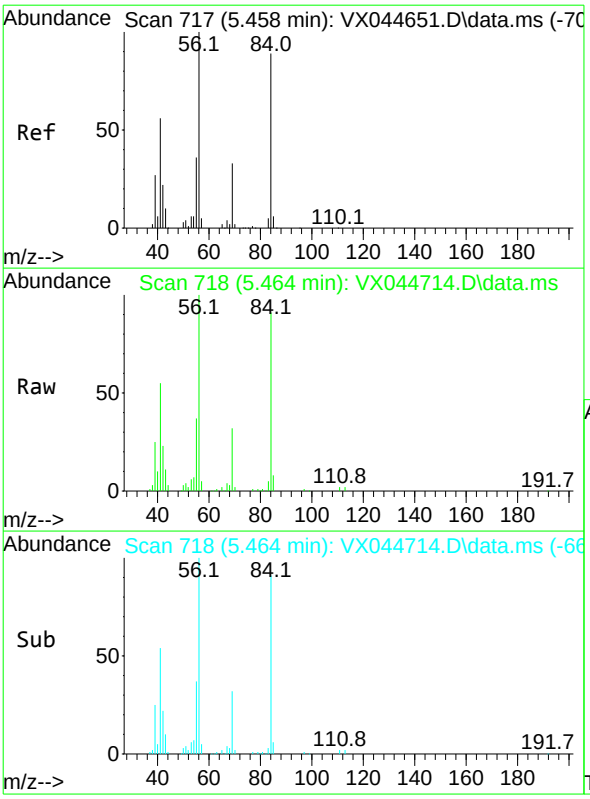




#30
Chloroform
Concen: 17.339 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 83 Resp: 79982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 51.2 | 76.8 |






#31
Cyclohexane
Concen: 20.018 ug/l
RT: 5.464 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 56 Resp: 74004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.6 | 26.8 | 40.2 |
| 84 | 89.8 | 71.0 | 106.4 |

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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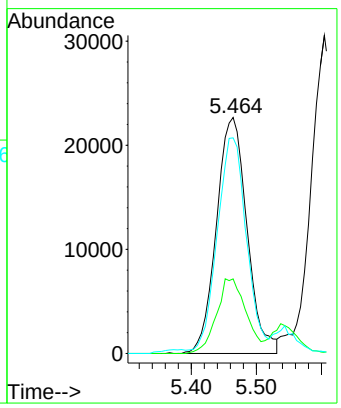
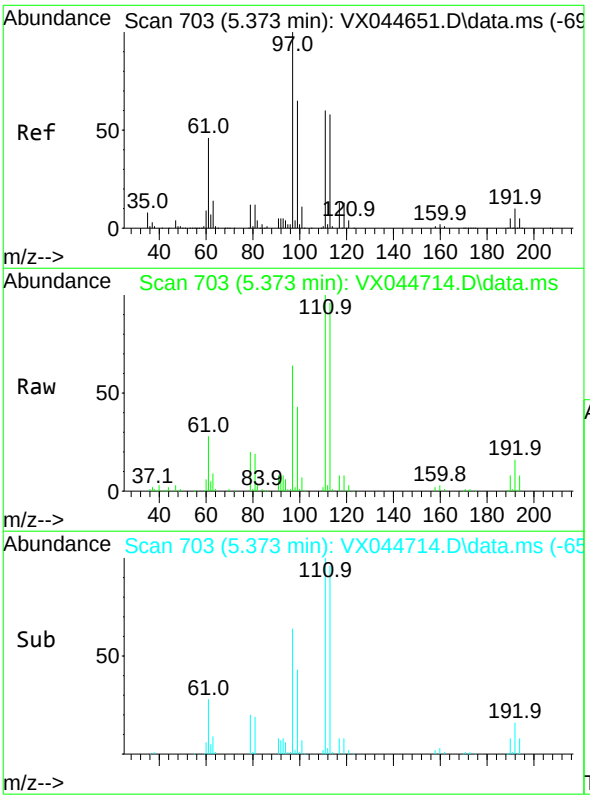
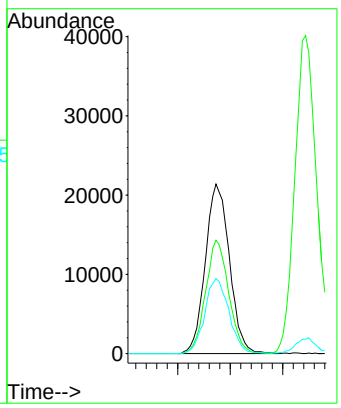


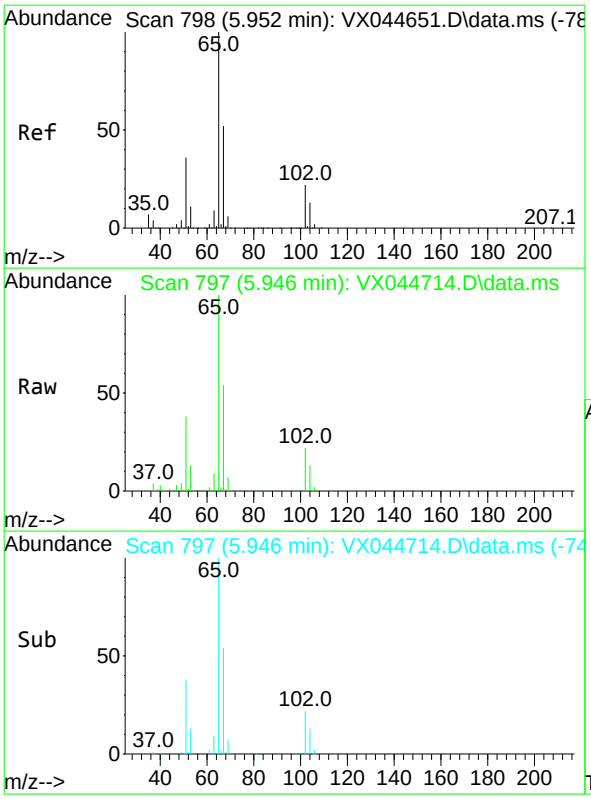




#32
1,1,1-Trichloroethane
Concen: 16.122 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 97 Resp: 68369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.6 | 77.4 |
| 61 | 44.4 | 35.6 | 53.4 |

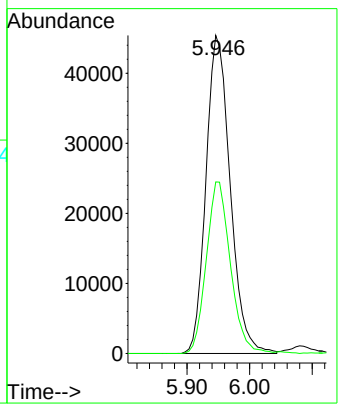





#33
1,2-Dichloroethane-d4
Concen: 41.574 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 65 Resp: 122056

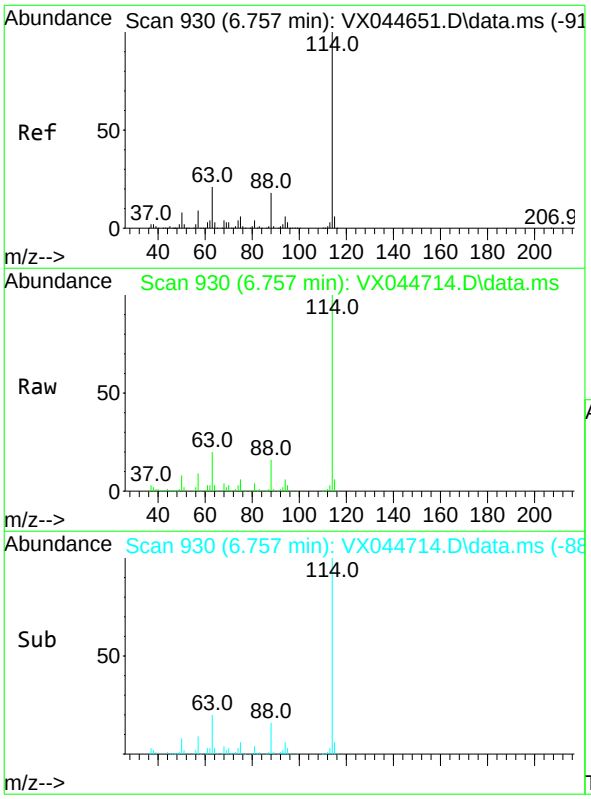
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 103.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

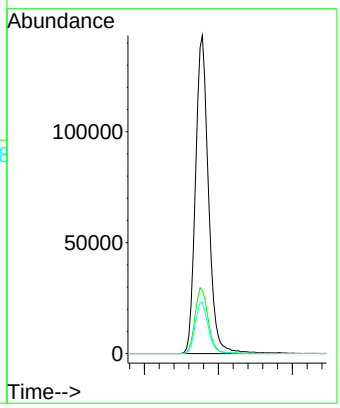
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

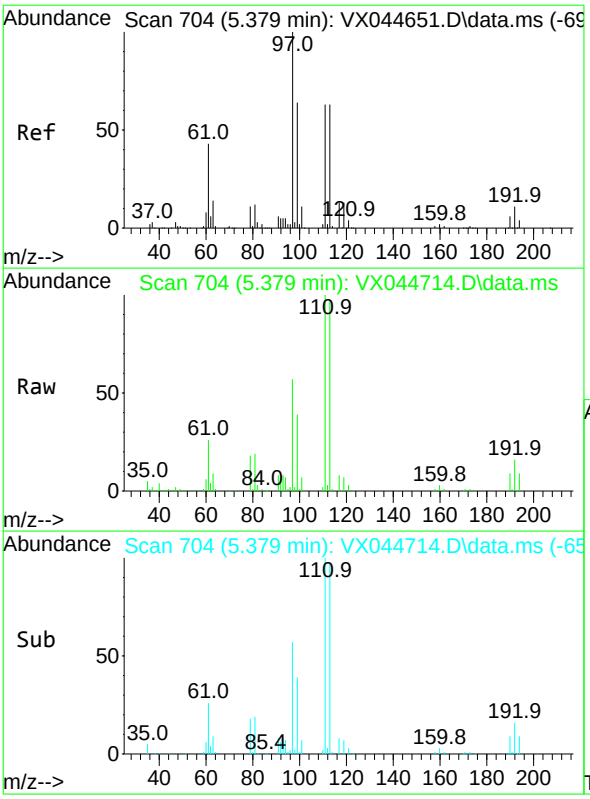



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:114 Resp: 349402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 43.0 |
| 88 | 16.2 | 0.0 | 35.4 |

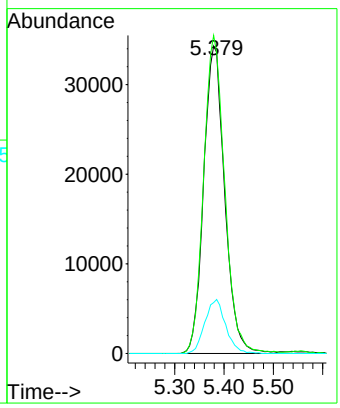





#35
Dibromofluoromethane
Concen: 45.811 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:113 Resp: 101687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.5 | 81.6 | 122.4 |
| 192 | 17.4 | 14.4 | 21.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
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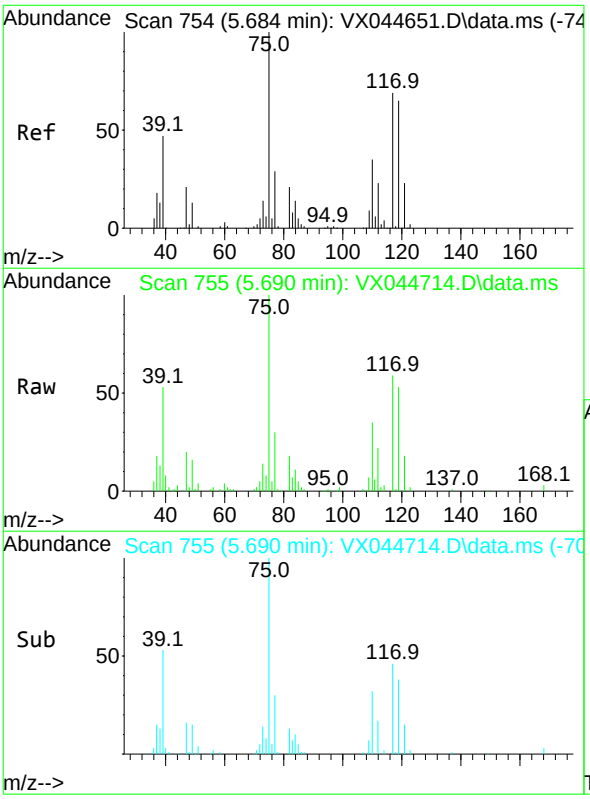
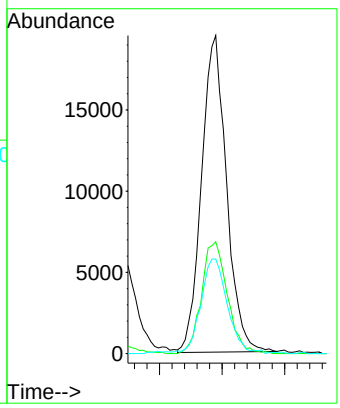
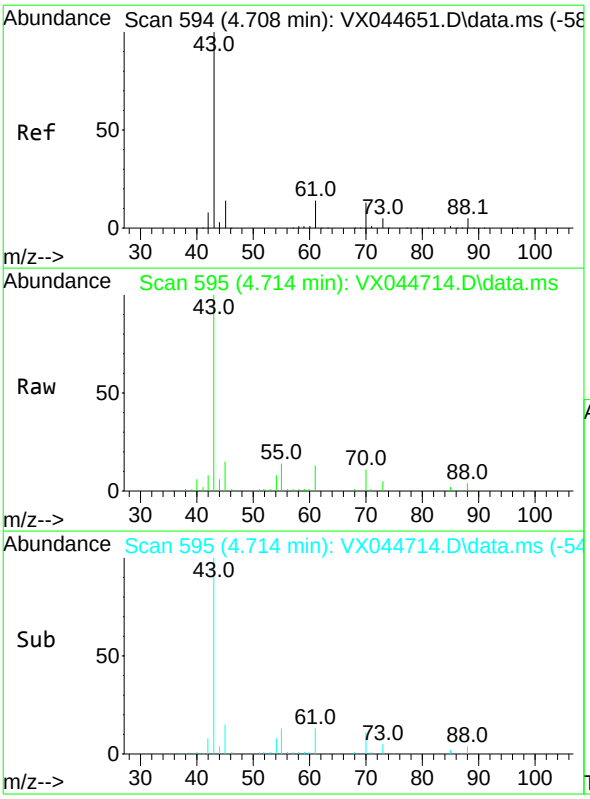



#36
1,1-Dichloropropene
Concen: 17.510 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 75 Resp: 54103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.5 | 17.9 | 53.8 |
| 77 | 31.0 | 24.5 | 36.7 |

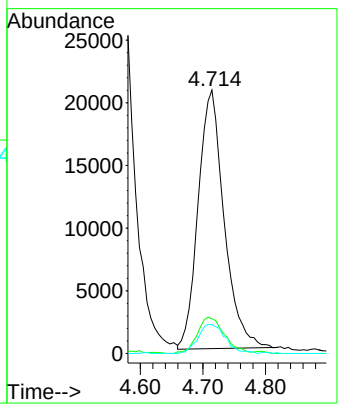





#37
Ethyl Acetate
Concen: 18.069 ug/l
RT: 4.714 min Scan# 59
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 43 Resp: 59455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.6 | 10.9 | 16.3 |
| 70 | 11.9 | 10.1 | 15.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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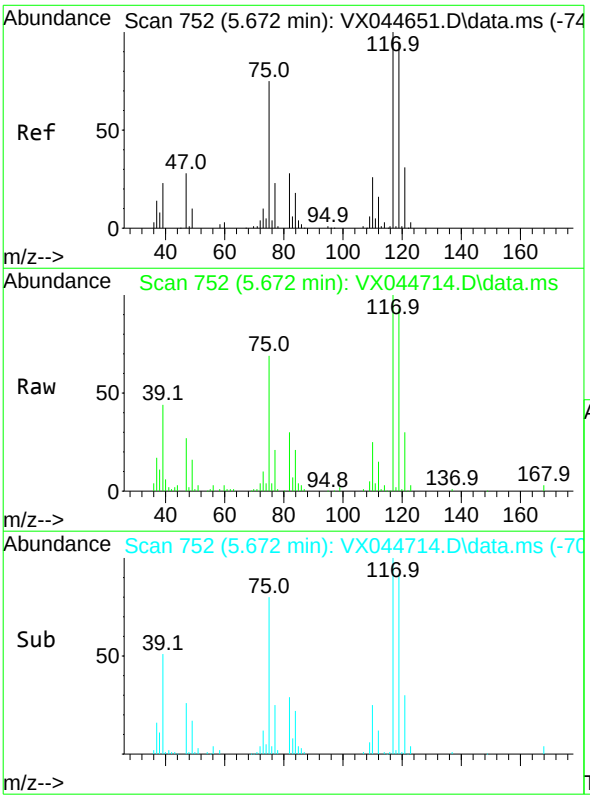
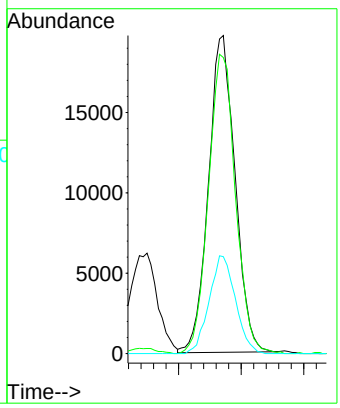
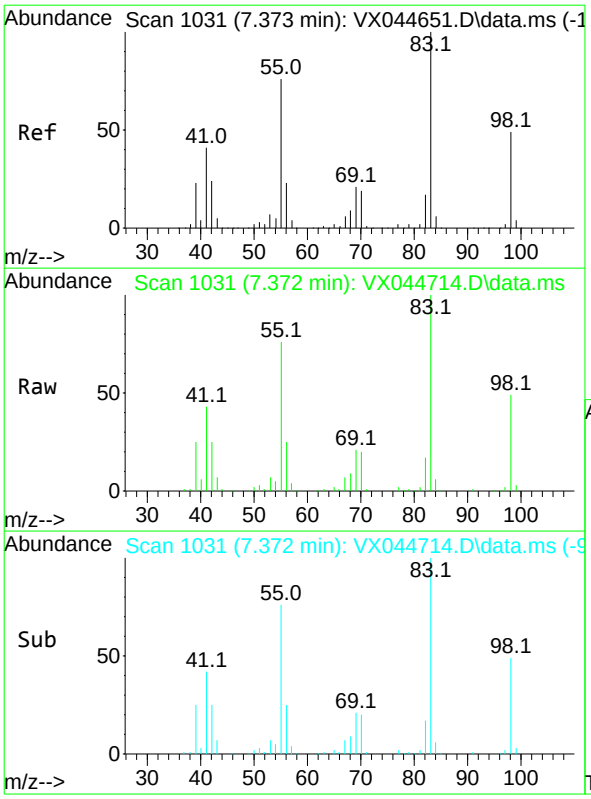



#38
Carbon Tetrachloride
Concen: 16.744 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:117 Resp: 58196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.6 | 76.0 | 114.0 |
| 121 | 30.6 | 24.6 | 36.8 |

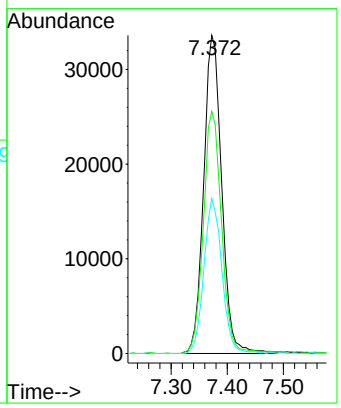





#39
Methylcyclohexane
Concen: 18.324 ug/l
RT: 7.372 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 83 Resp: 75160

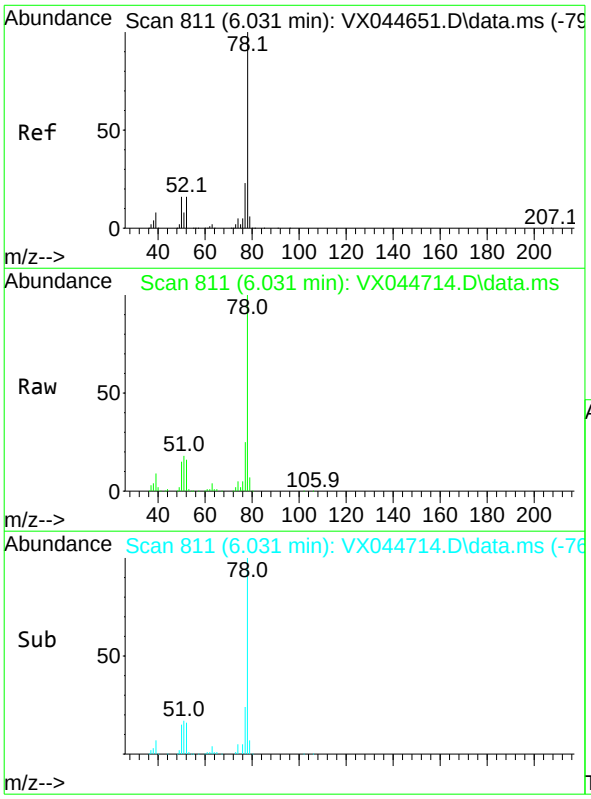
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.1 | 60.5 | 90.7 |
| 98 | 48.7 | 39.0 | 58.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

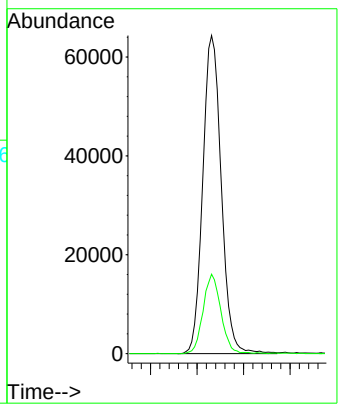
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

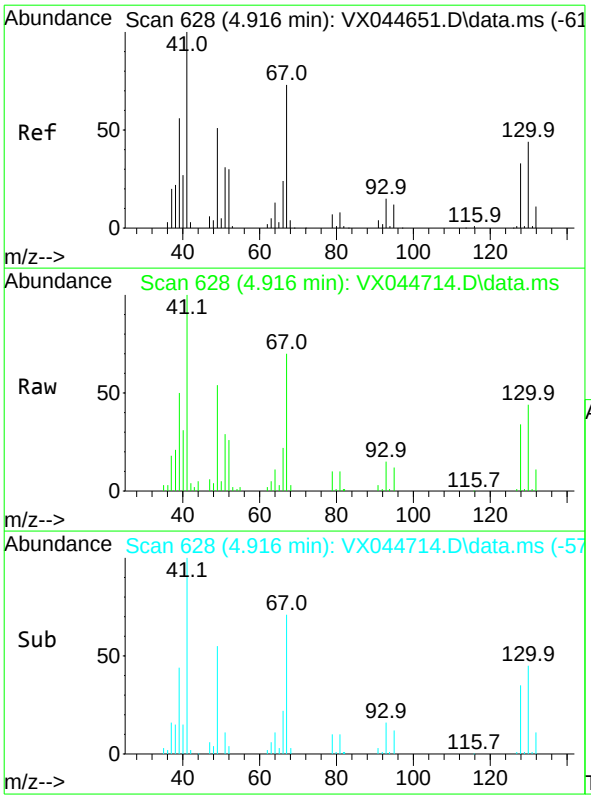



#40
Benzene
Concen: 18.544 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 78 Resp: 177558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.0 | 18.7 | 28.1 |

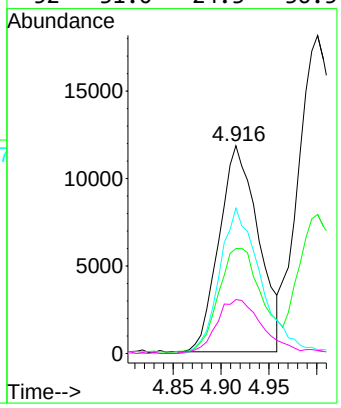





#41
Methacrylonitrile
Concen: 17.612 ug/l
RT: 4.916 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 41 Resp: 33769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.4 | 44.4 | 66.6 |
| 67 | 74.5 | 60.6 | 90.8 |
| 52 | 31.0 | 24.3 | 36.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
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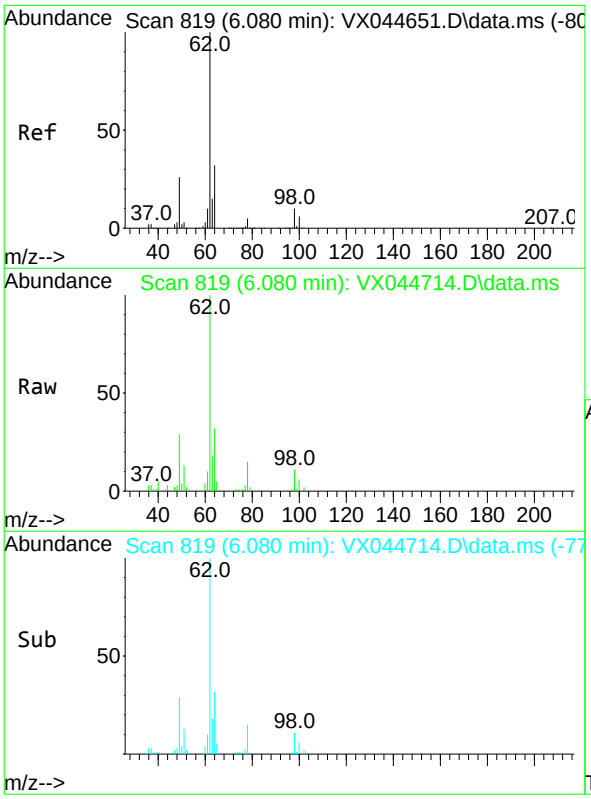
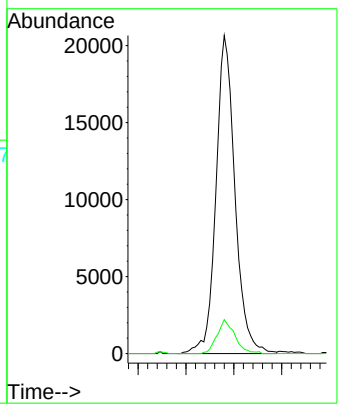
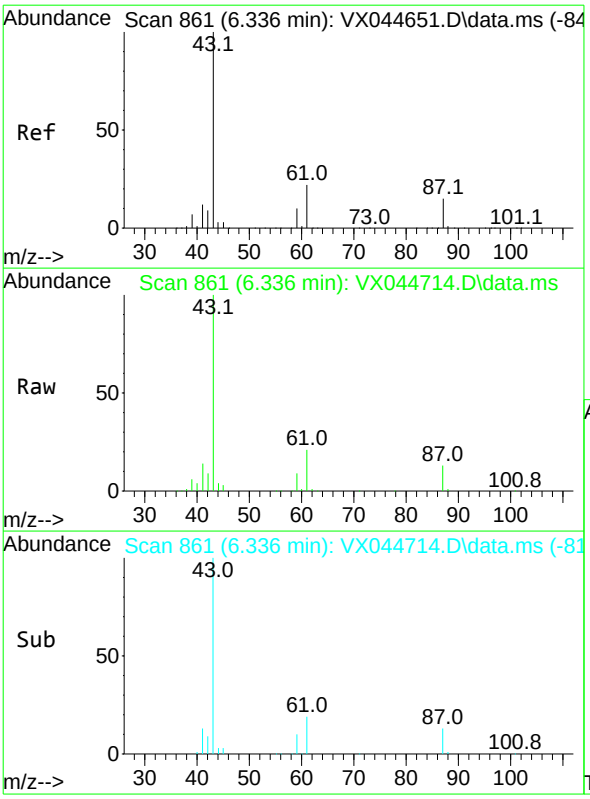



#42
1,2-Dichloroethane
Concen: 16.294 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 62 Resp: 56940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.0 | 0.0 | 19.4 |

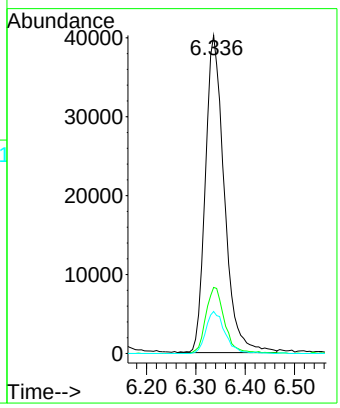





#43
Isopropyl Acetate
Concen: 17.670 ug/l
RT: 6.336 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 43 Resp: 106960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.9 | 16.6 | 24.8 |
| 87 | 13.2 | 11.0 | 16.6 |




**Instrument :**
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VX0127WBS01

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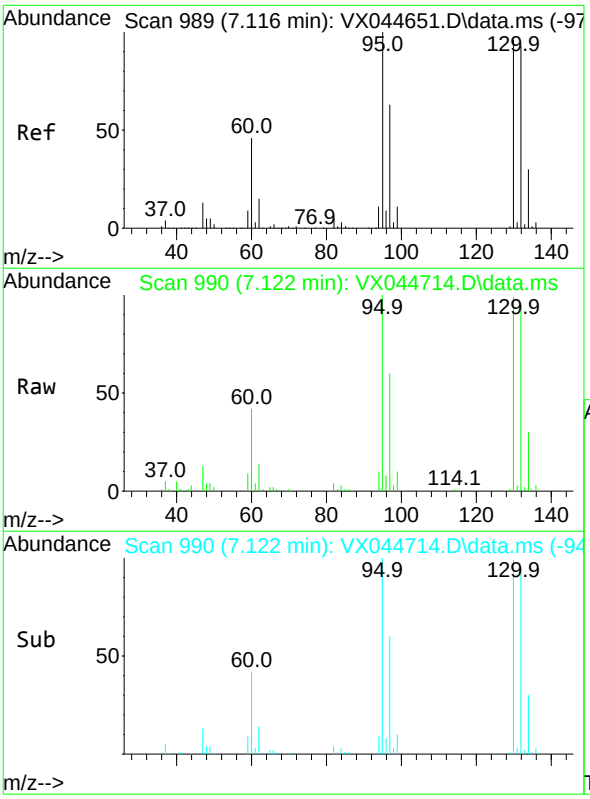
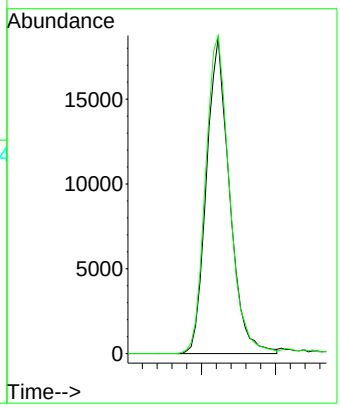
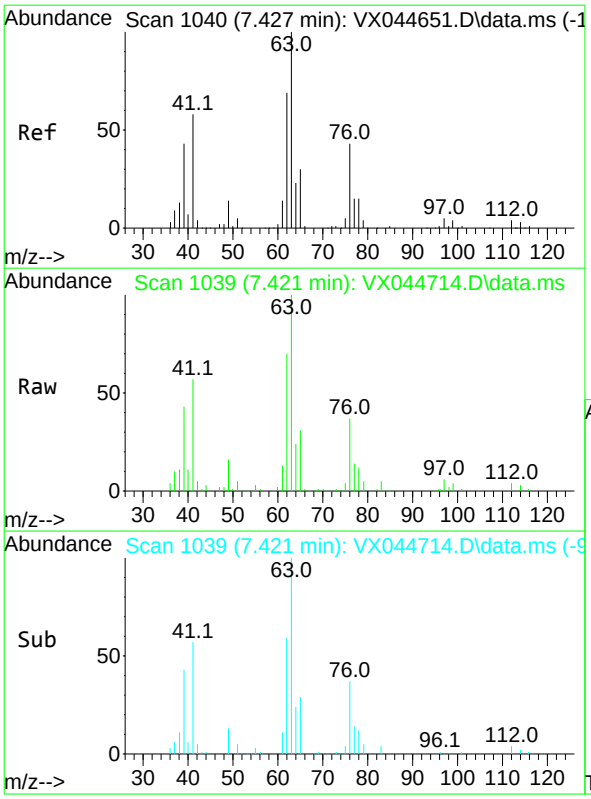



#44
Trichloroethene
Concen: 17.501 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:130 Resp: 40285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.8 | 0.0 | 208.2 |

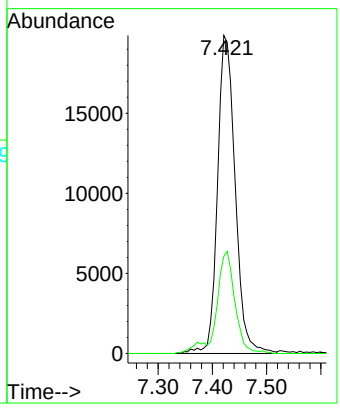





#45
1,2-Dichloropropane
Concen: 18.632 ug/l
RT: 7.421 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 63 Resp: 44906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.6 | 24.2 | 36.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
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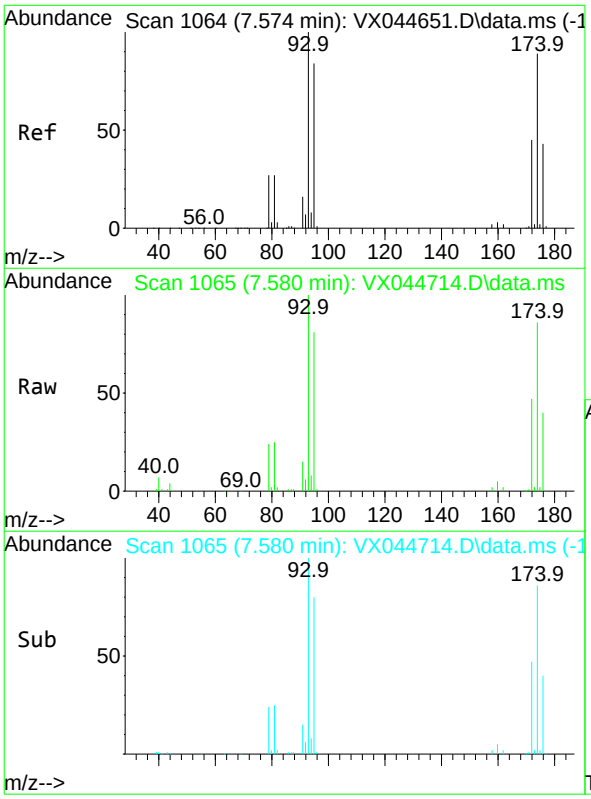
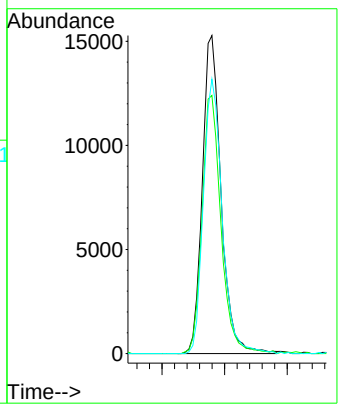
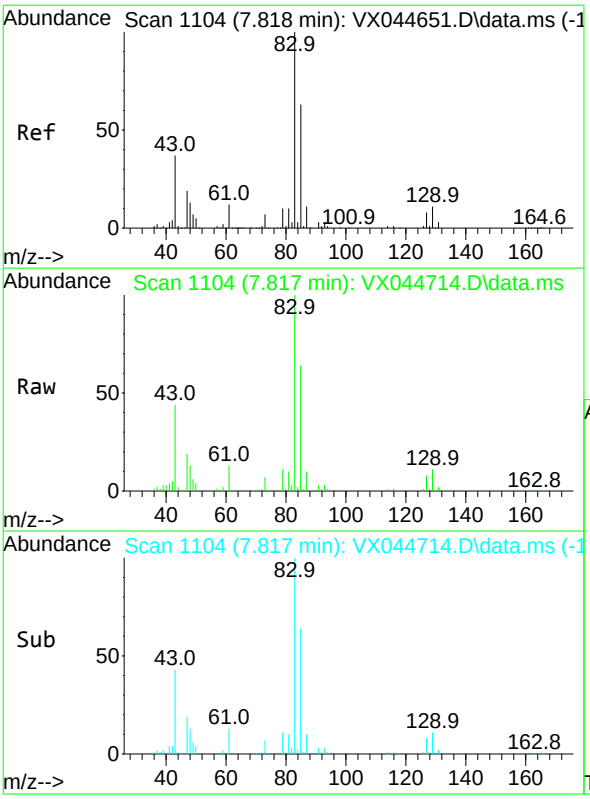



#46
Dibromomethane
Concen: 17.306 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 93 Resp: 31751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.1 | 66.4 | 99.6 |
| 174 | 86.9 | 72.0 | 108.0 |

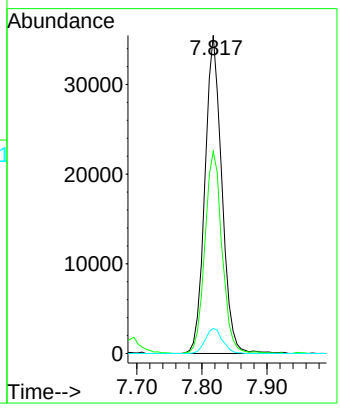





#47
Bromodichloromethane
Concen: 17.015 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 83 Resp: 64021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.6 | 50.1 | 75.1 |
| 127 | 7.9 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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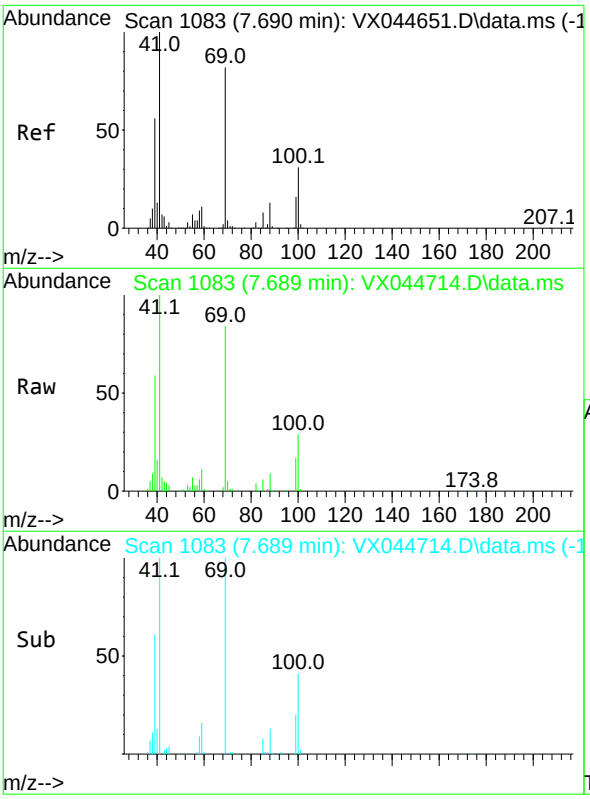
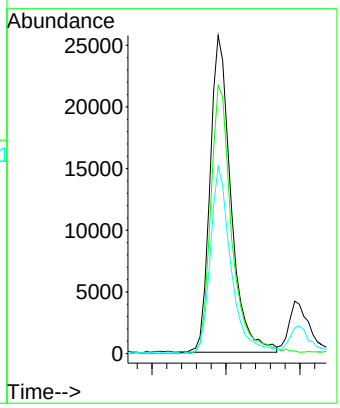
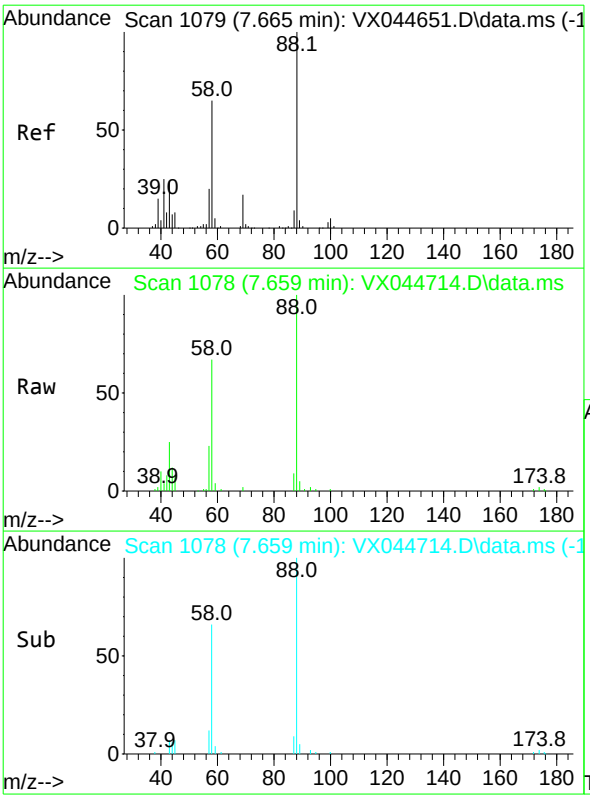



#48
Methyl methacrylate
Concen: 17.957 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 41 Resp: 50455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 85.4 | 66.8 | 100.2 |
| 39 | 58.3 | 47.4 | 71.0 |






#49
1,4-Dioxane
Concen: 381.373 ug/l
RT: 7.659 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 88 Resp: 22357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.9 | 27.0 | 40.4 |
| 58 | 71.3 | 55.8 | 83.8 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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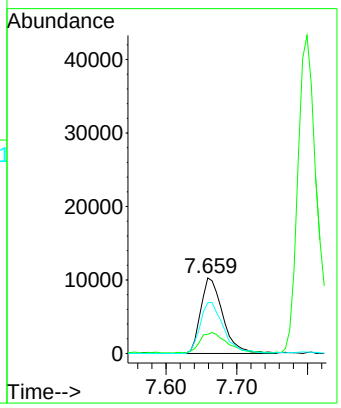
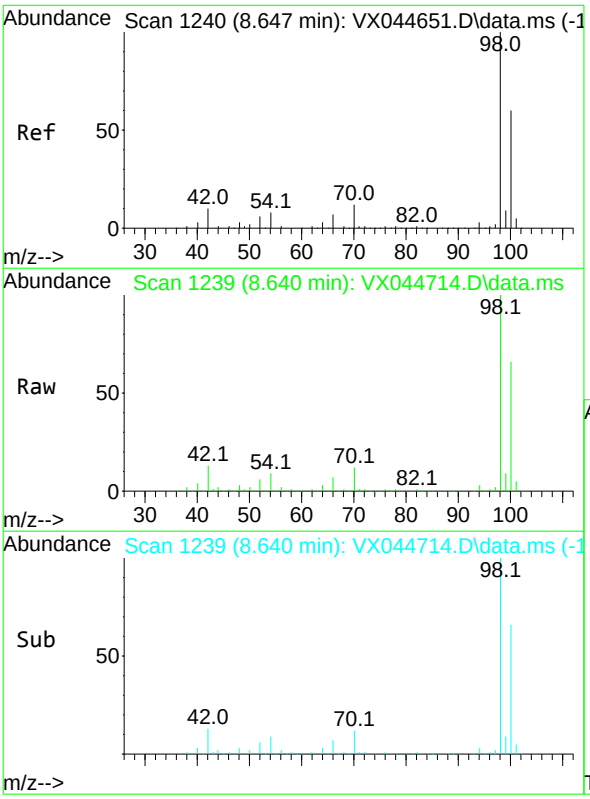
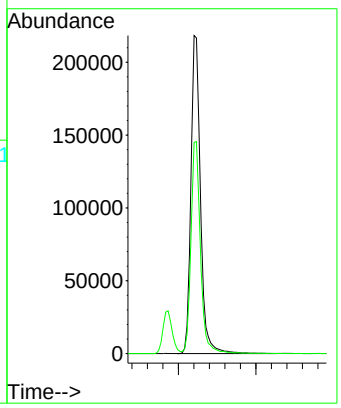


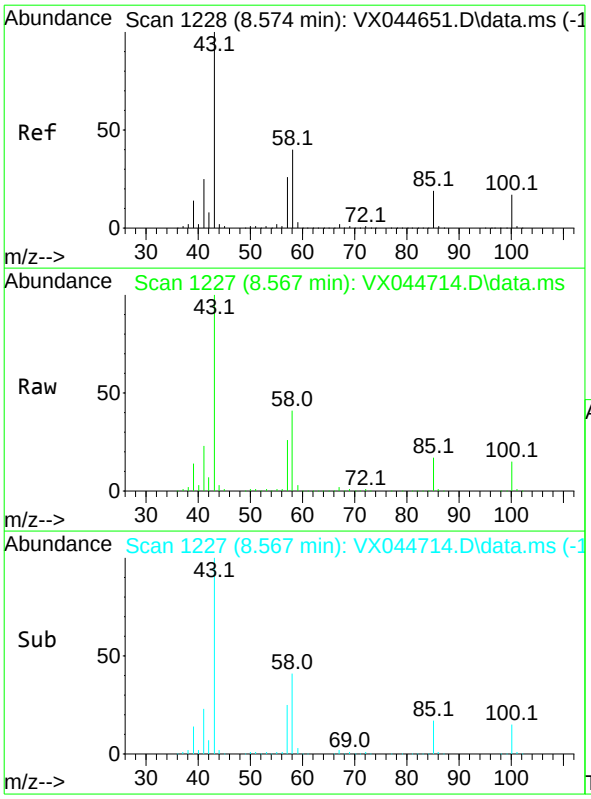




#50
Toluene-d8
Concen: 48.375 ug/l
RT: 8.640 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 98 Resp: 374408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.4 | 53.2 | 79.8 |






#51
4-Methyl-2-Pentanone
Concen: 95.928 ug/l
RT: 8.567 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 43 Resp: 320897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.1 | 31.9 | 47.9 |

**Instrument :**
MSVOA_X
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VX0127WBS01

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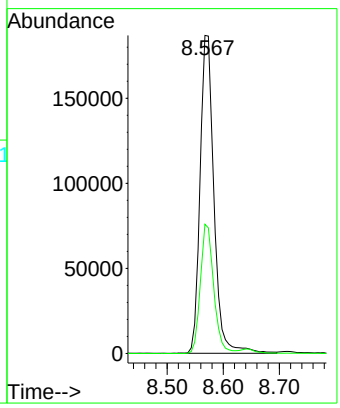
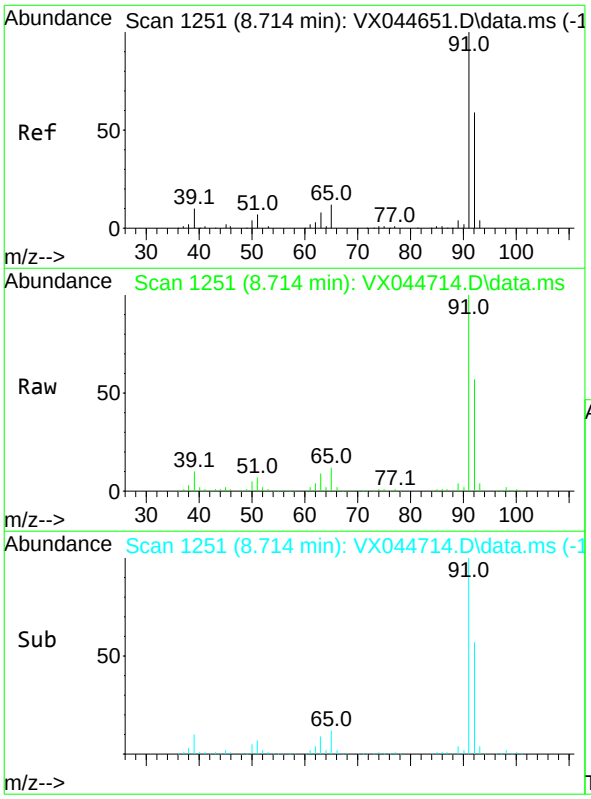
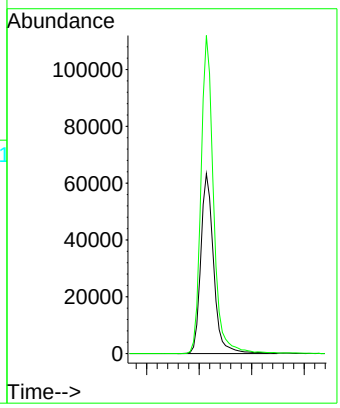


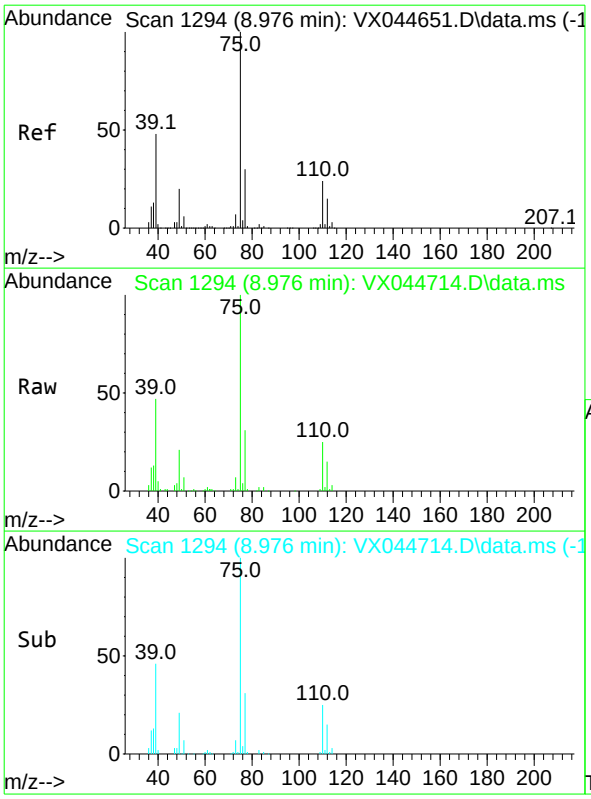




#52
Toluene
Concen: 18.310 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 92 Resp: 107306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.3 | 135.7 | 203.5 |

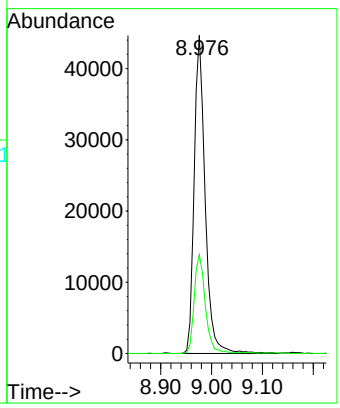





#53
t-1,3-Dichloropropene
Concen: 17.231 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 75 Resp: 66983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 24.4 | 36.6 |

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MSVOA_X
**ClientSampleId :**
VX0127WBS01

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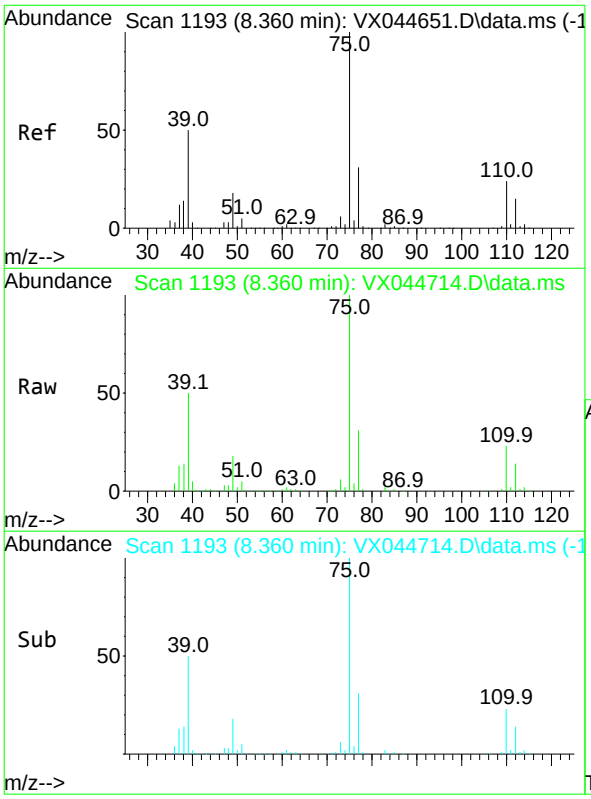
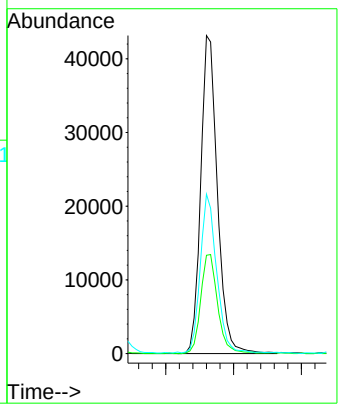
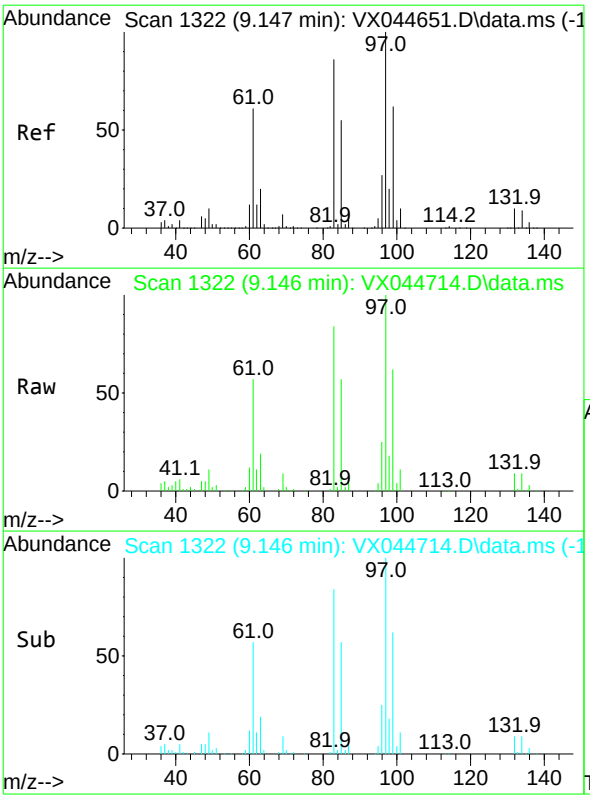



#54
cis-1,3-Dichloropropene
Concen: 17.484 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 75 Resp: 73698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.1 | 37.7 |
| 39 | 49.7 | 40.3 | 60.5 |

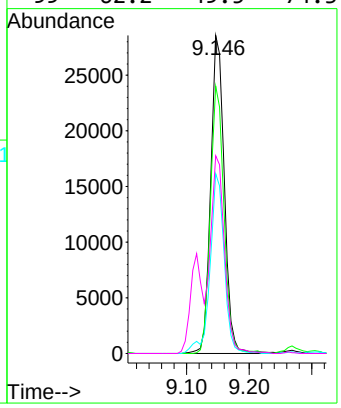





#55
1,1,2-Trichloroethane
Concen: 18.277 ug/l
RT: 9.146 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 97 Resp: 43335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.1 | 68.8 | 103.2 |
| 85 | 56.5 | 43.7 | 65.5 |
| 99 | 62.2 | 49.5 | 74.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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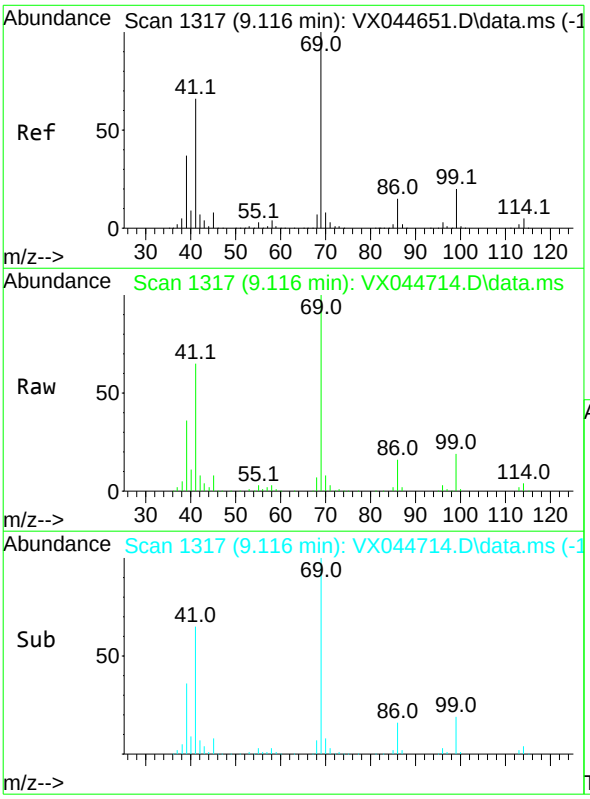
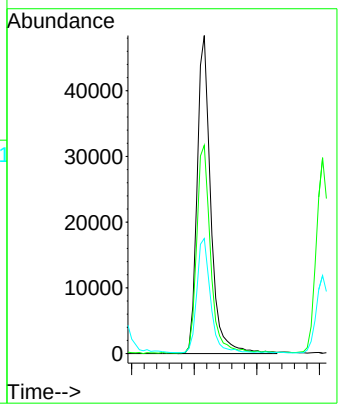
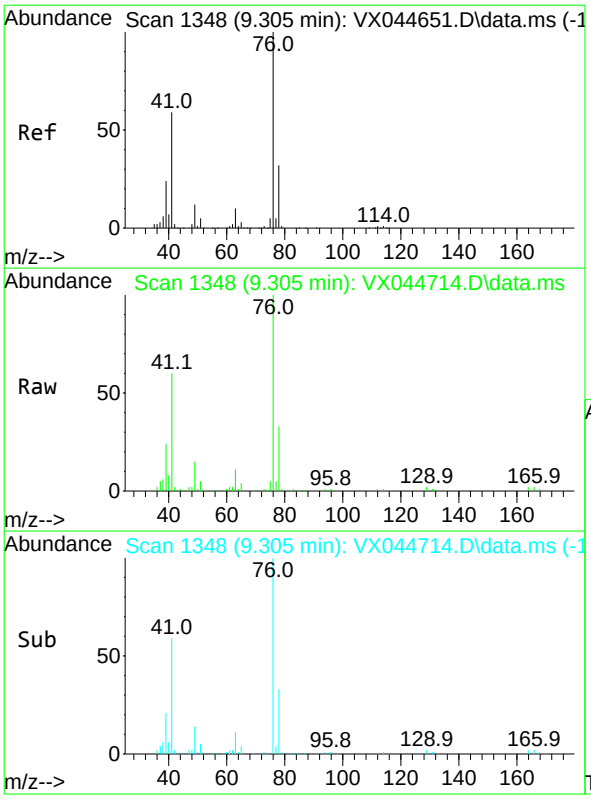



#56
Ethyl methacrylate
Concen: 17.970 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 69 Resp: 73260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.6 | 53.2 | 79.8 |
| 39 | 35.9 | 30.2 | 45.2 |






#57
1,3-Dichloropropane
Concen: 18.173 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 76 Resp: 73374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 26.0 | 39.0 |

**Instrument :**
MSVOA_X
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VX0127WBS01

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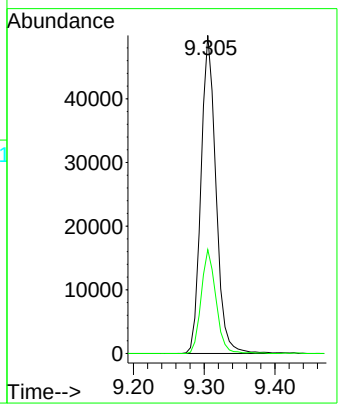
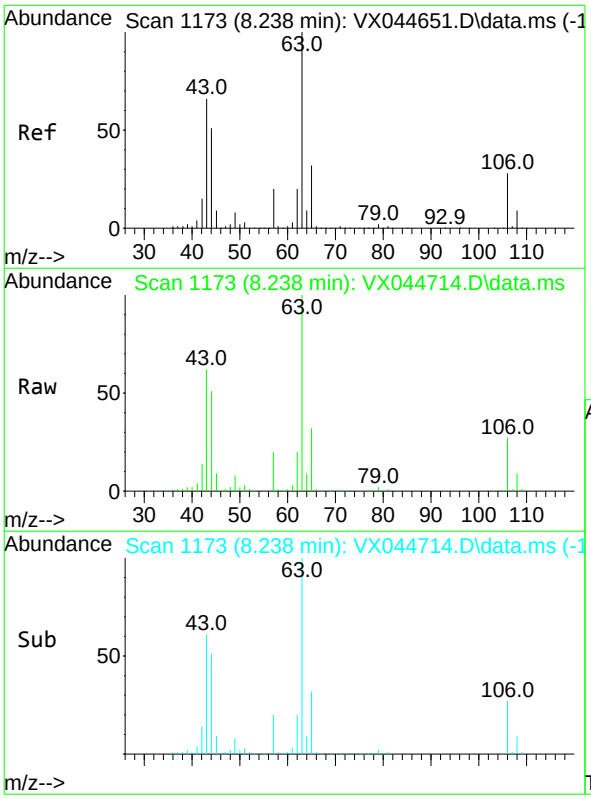
Supervised By :Mahesh Dadoda 01/28/2025

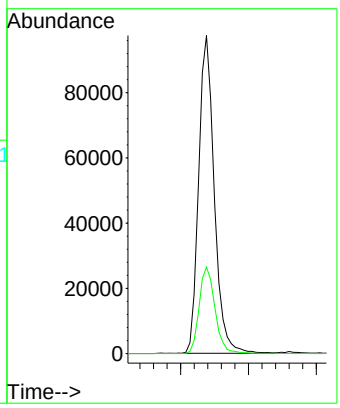


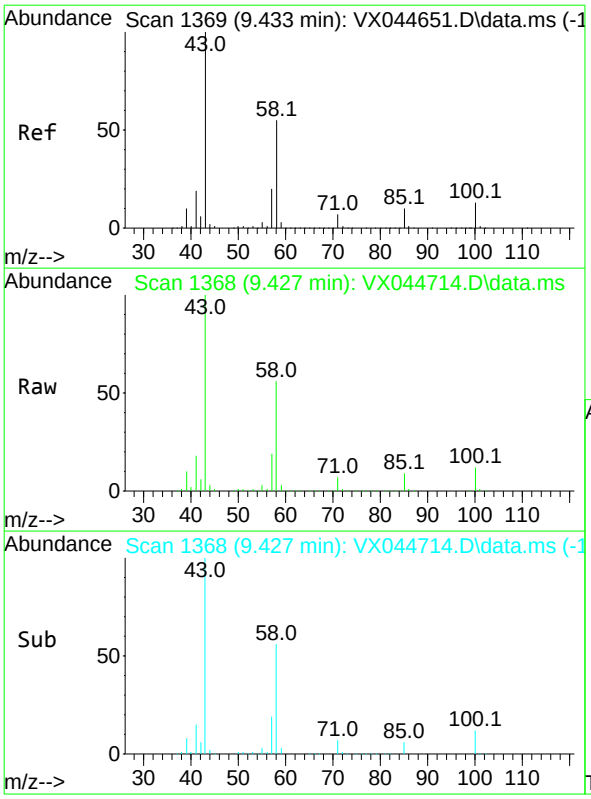




#58
2-Chloroethyl Vinyl ether
Concen: 77.714 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 63 Resp: 155542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.6 | 23.0 | 34.6 |






#59
2-Hexanone
Concen: 95.563 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

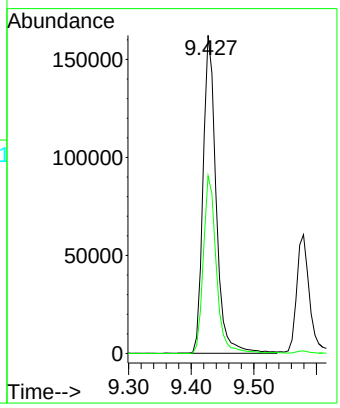
Tgt Ion: 43 Resp: 235185

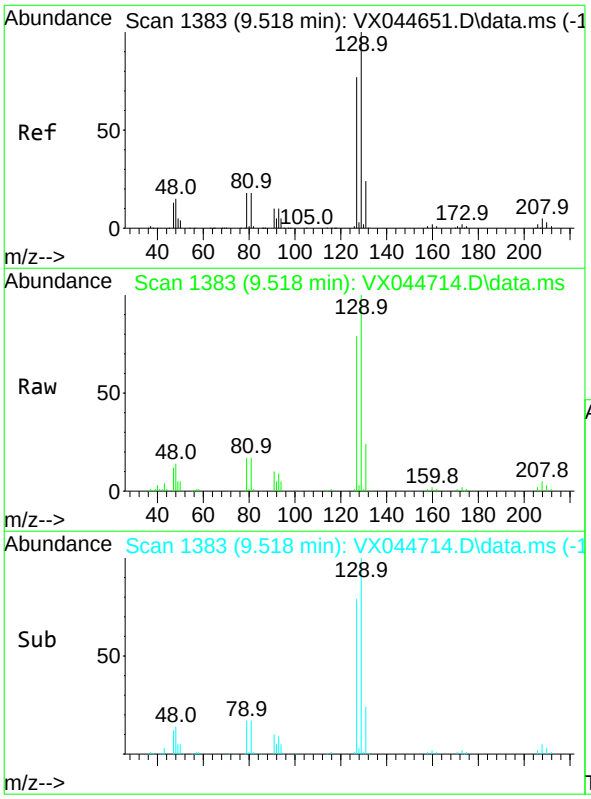
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.3 | 27.8 | 83.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

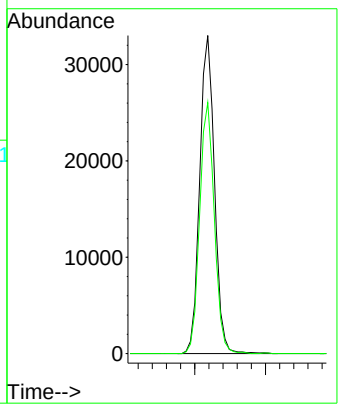


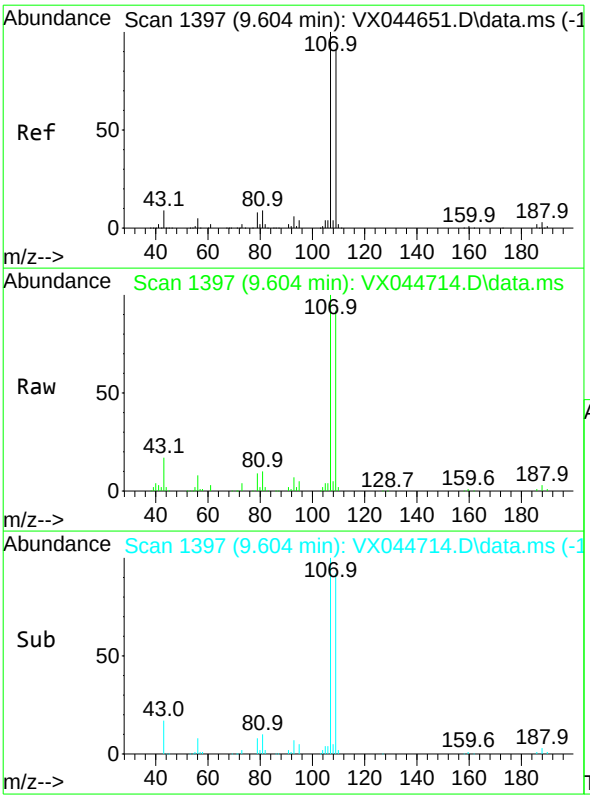




#60
Dibromochloromethane
Concen: 17.200 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:129 Resp: 47865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.6 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 17.525 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

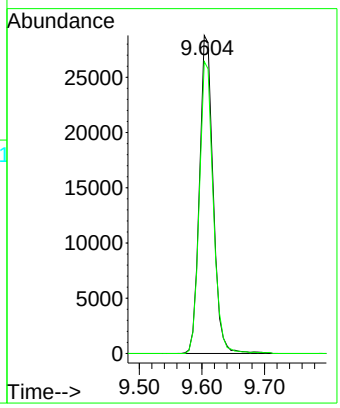
Tgt Ion:107 Resp: 43546

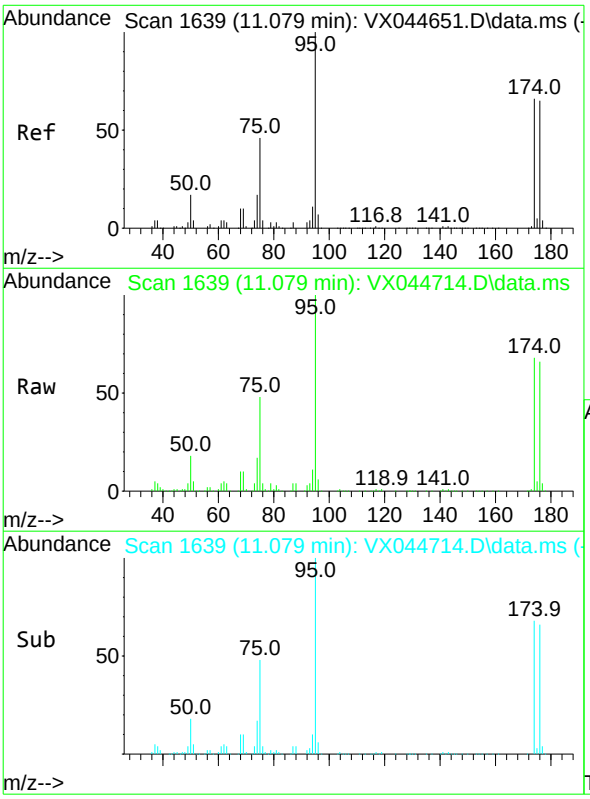
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.6 | 75.3 | 112.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

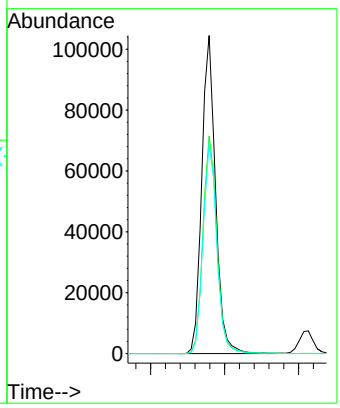


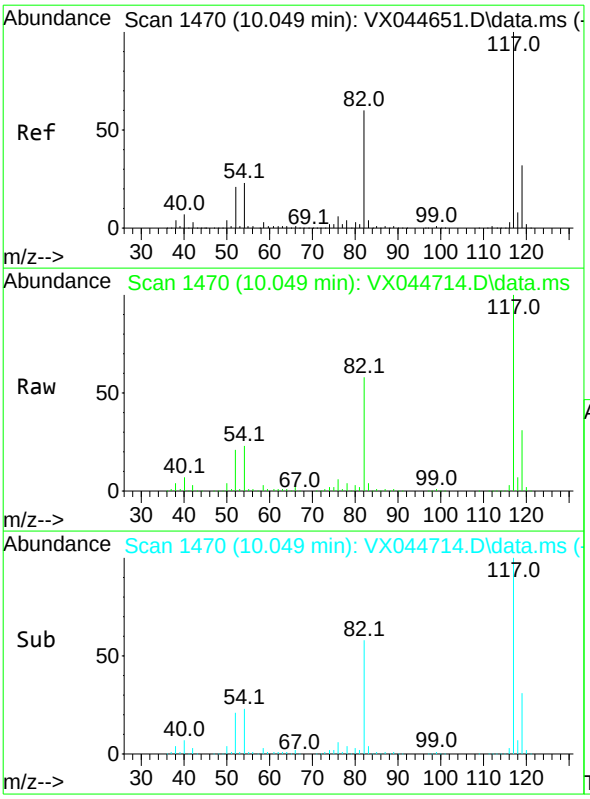




#62
4-Bromofluorobenzene
Concen: 46.759 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 95 Resp: 134911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 69.5 | 0.0 | 133.0 |
| 176 | 66.7 | 0.0 | 129.4 |

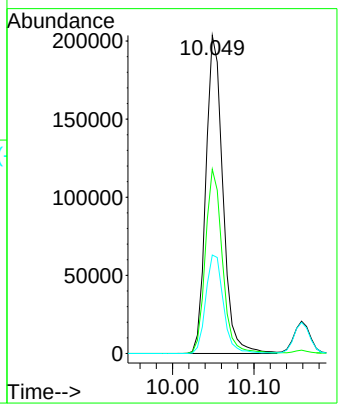





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:117 Resp: 294902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.9 | 47.6 | 71.4 |
| 119 | 31.0 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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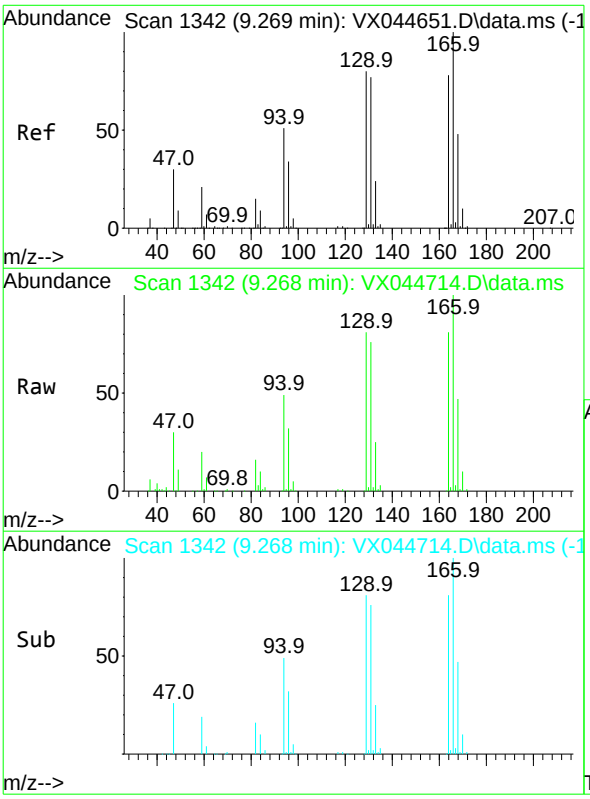
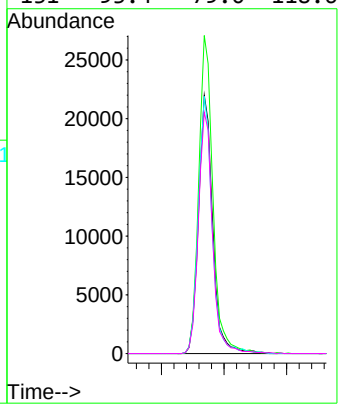
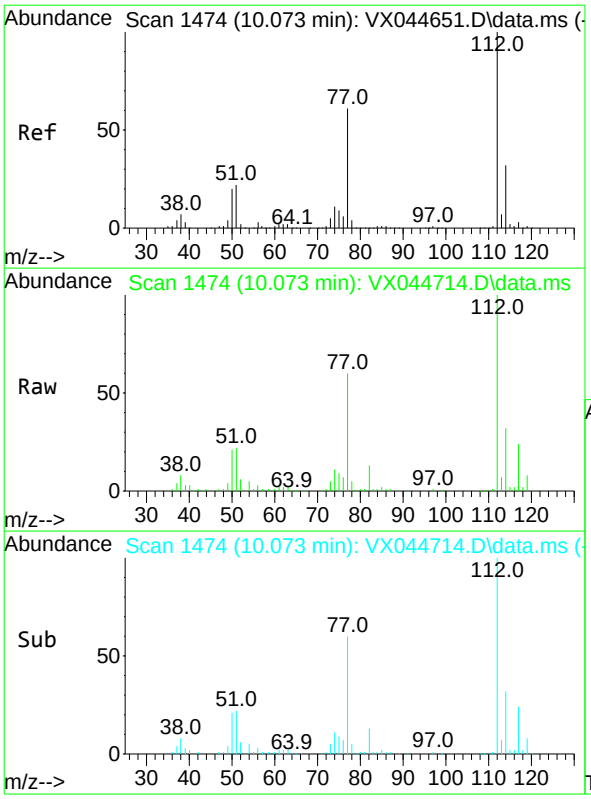



#64
Tetrachloroethene
Concen: 18.686 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:164 Resp: 34603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.1 | 102.0 | 153.0 |
| 129 | 99.5 | 81.1 | 121.7 |
| 131 | 93.4 | 79.0 | 118.6 |

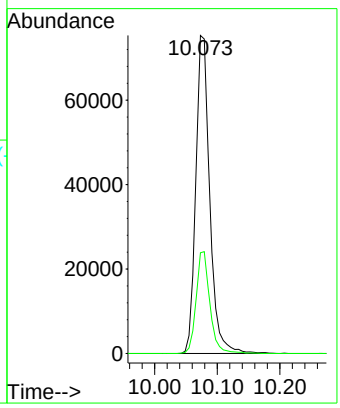





#65
Chlorobenzene
Concen: 18.627 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:112 Resp: 116677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.7 | 25.3 | 37.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
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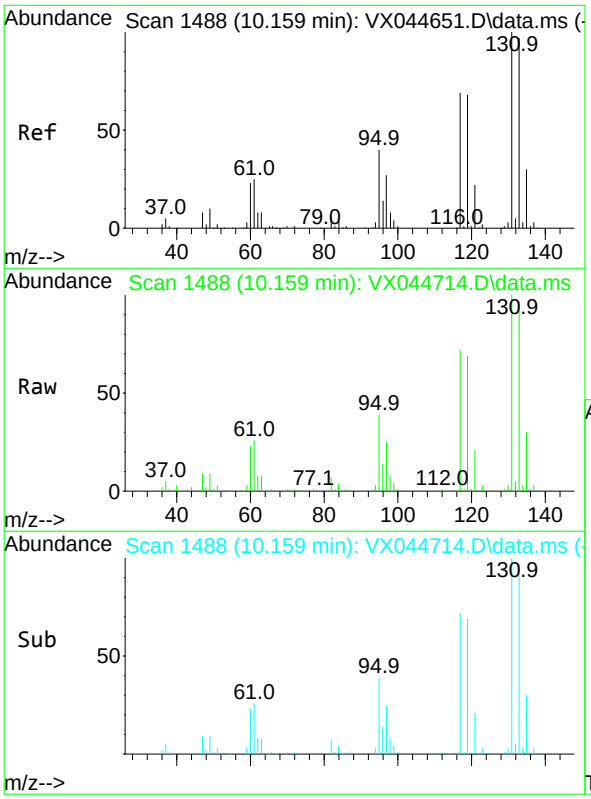
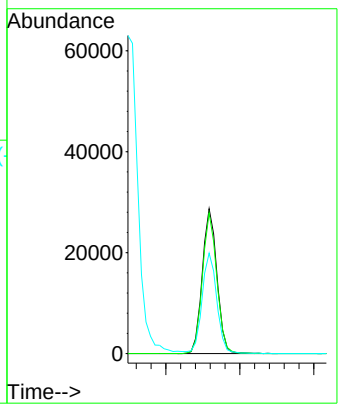
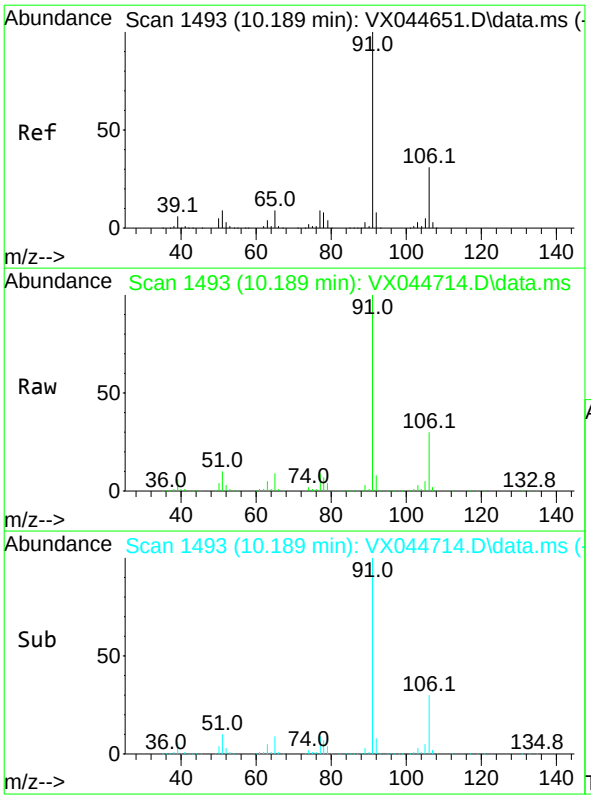



#66
1,1,1,2-Tetrachloroethane
Concen: 17.327 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:131 Resp: 39444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 47.8 | 143.3 |
| 119 | 69.8 | 33.4 | 100.2 |






#67
Ethyl Benzene
Concen: 18.619 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 91 Resp: 203496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.5 | 25.0 | 37.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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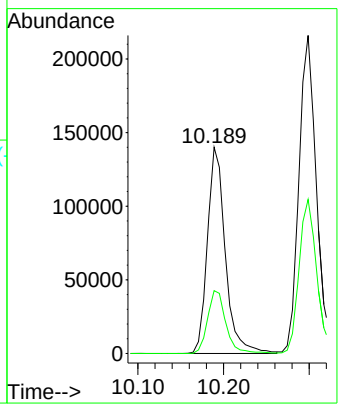
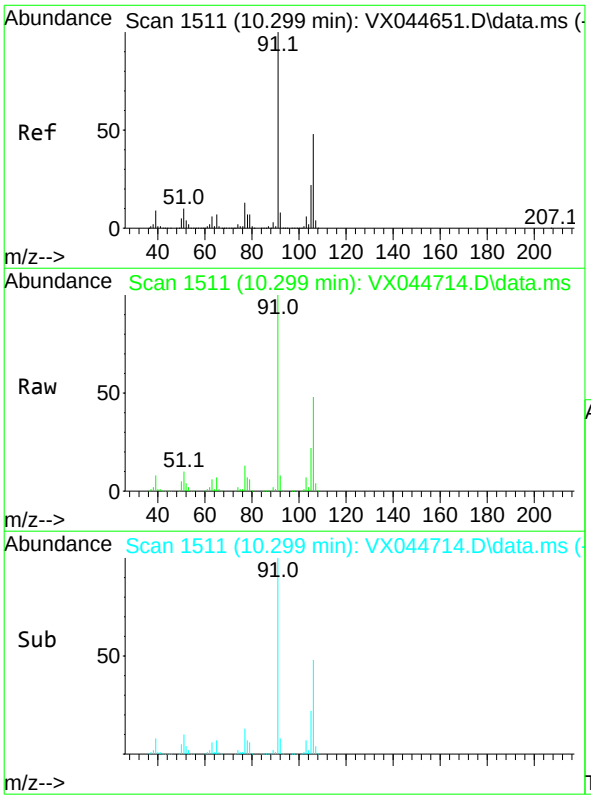
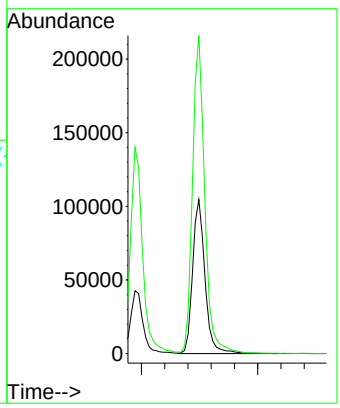


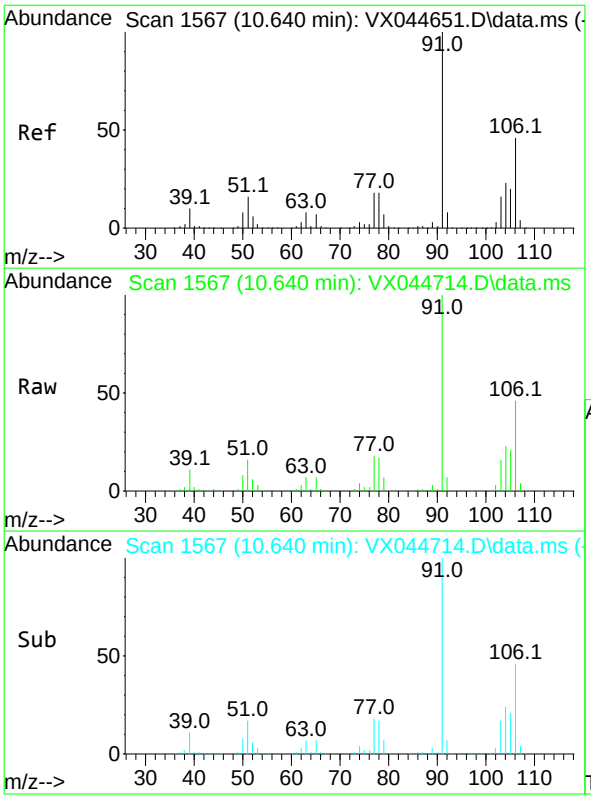




#68
m/p-Xylenes
Concen: 38.048 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:106 Resp: 154315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.0 | 166.4 | 249.6 |

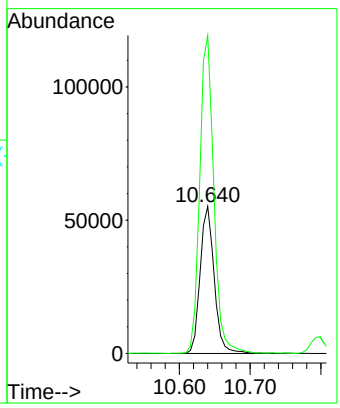





#69
o-Xylene
Concen: 18.584 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:106 Resp: 76225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.8 | 108.7 | 326.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
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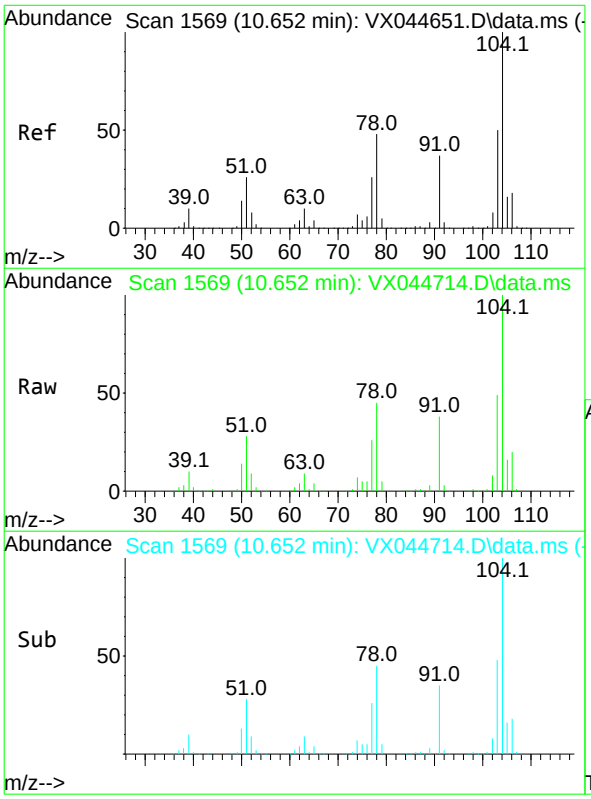
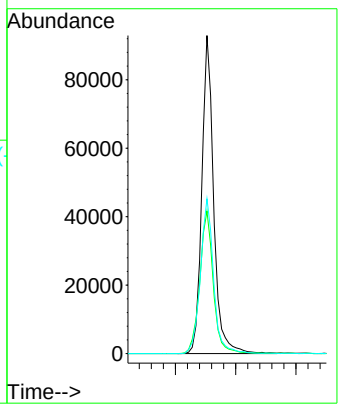
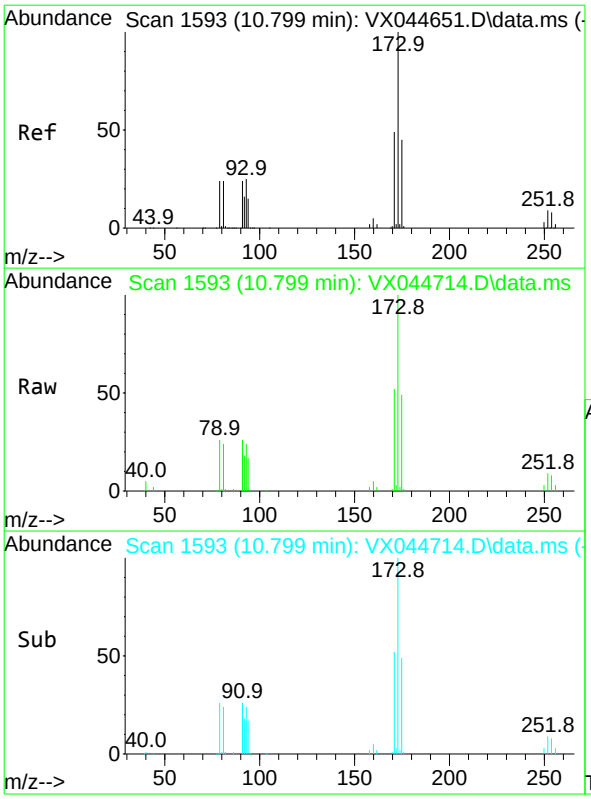



#70
Styrene
Concen: 19.202 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:104 Resp: 127161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.1 | 43.0 | 64.6 |
| 103 | 54.0 | 43.4 | 65.2 |

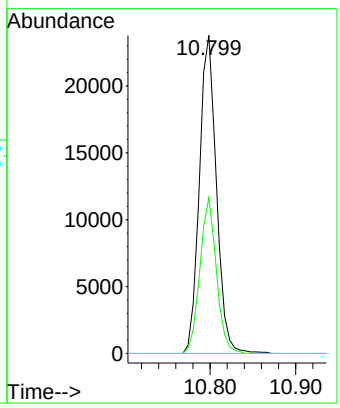





#71
Bromoform
Concen: 17.735 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:173 Resp: 32859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.4 | 23.6 | 70.8 |
| 254 | 0.0 | 0.1 | 0.1# |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

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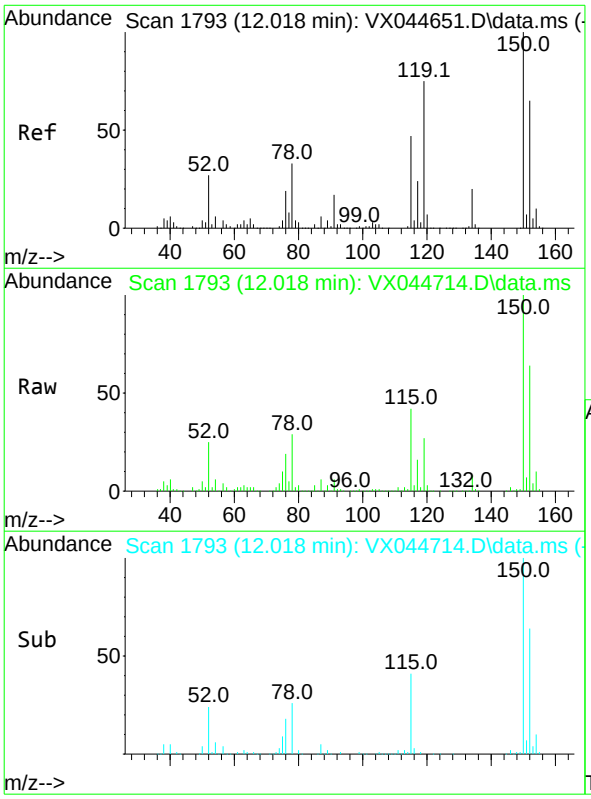
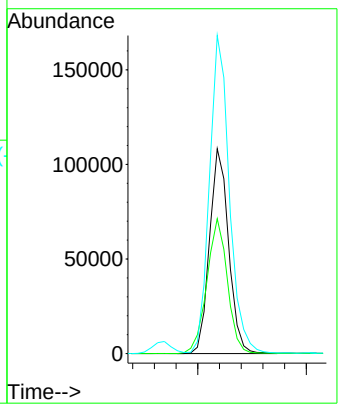
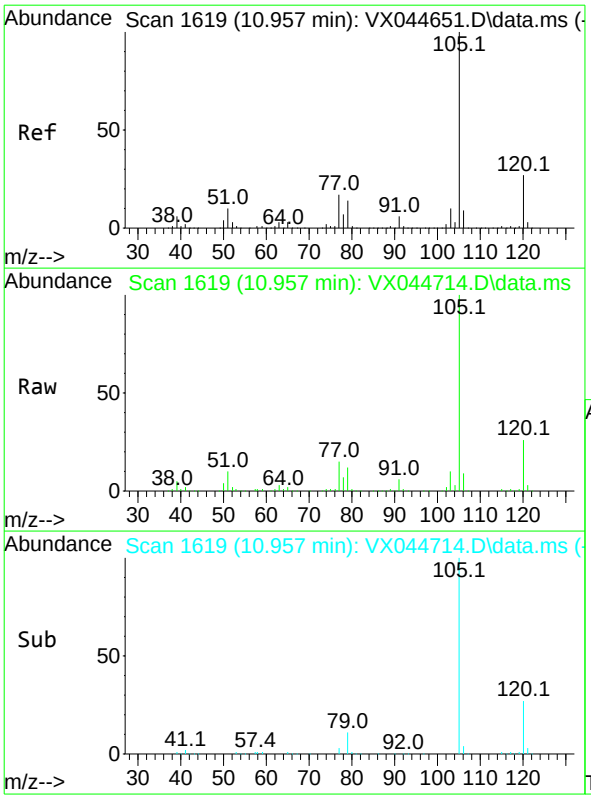



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:152 Resp: 132232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 71.0 | 43.8 | 131.4 |
| 150 | 161.9 | 0.0 | 347.8 |






#73
Isopropylbenzene
Concen: 17.780 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:105 Resp: 192068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.2 | 39.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

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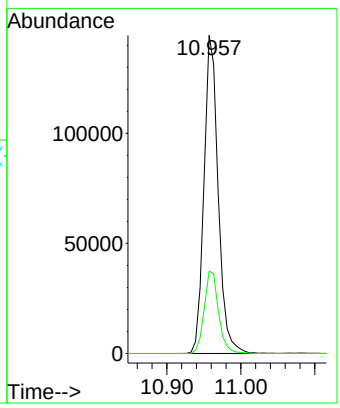
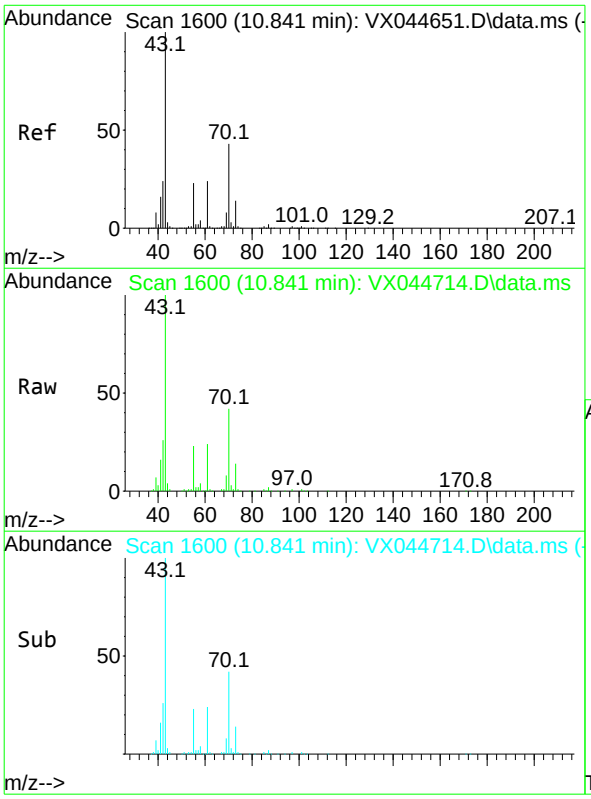
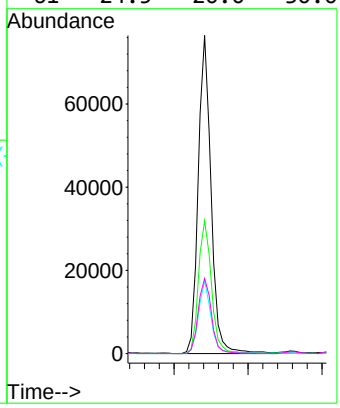


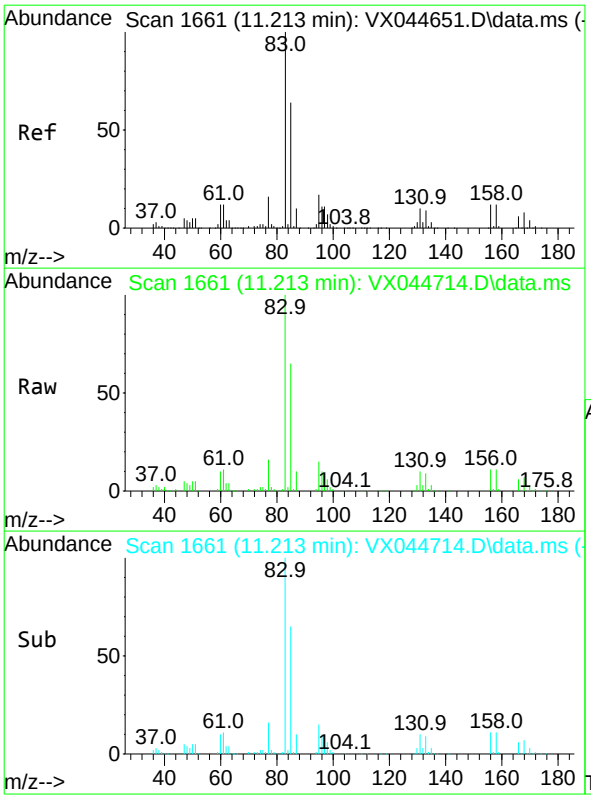




#74
N-amyl acetate
Concen: 17.326 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 43 Resp: 92250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.5 | 35.2 | 52.8 |
| 55 | 22.5 | 19.0 | 28.4 |
| 61 | 24.5 | 20.0 | 30.0 |






#75
1,1,2,2-Tetrachloroethane
Concen: 18.034 ug/l
RT: 11.213 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 83 Resp: 67283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 5.0 | 14.9 |
| 85 | 65.2 | 32.0 | 96.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
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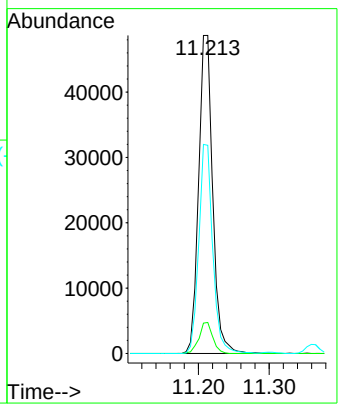
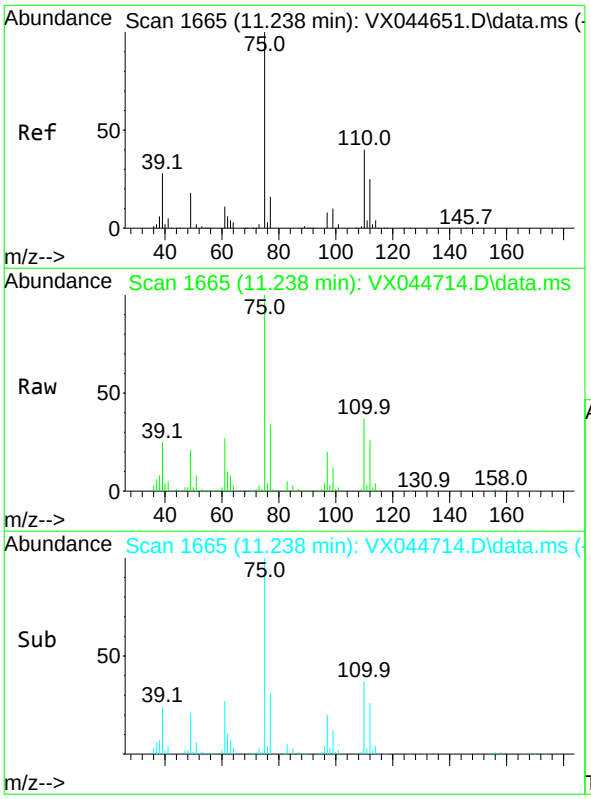
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

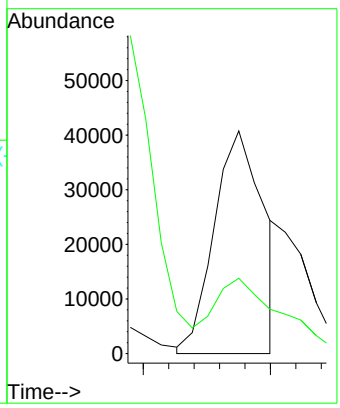


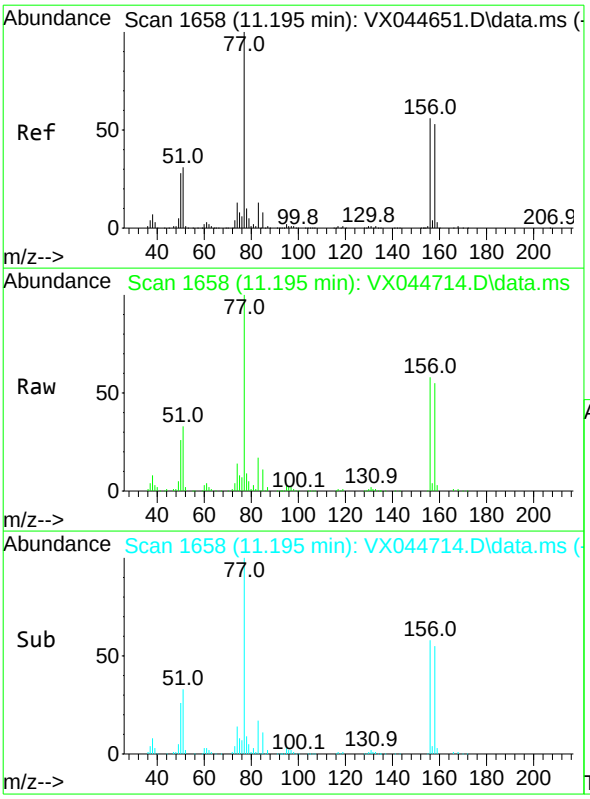




#76
1,2,3-Trichloropropane
Concen: 17.110 ug/l m
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 75 Resp: 54906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 46.2 | 23.4 | 70.2 |

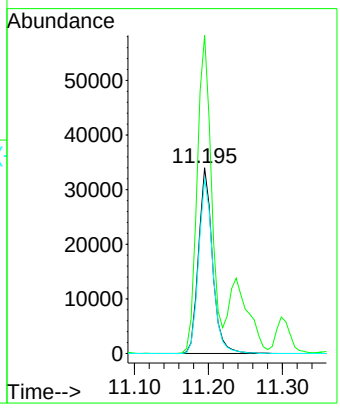





#77
Bromobenzene
Concen: 17.640 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:156 Resp: 44539

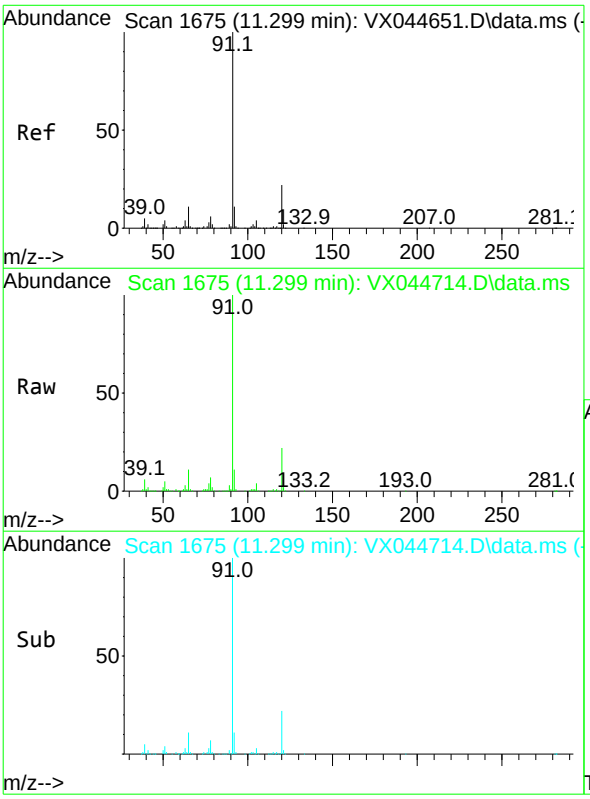
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 175.2 | 90.3 | 271.0 |
| 158 | 95.0 | 48.4 | 145.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

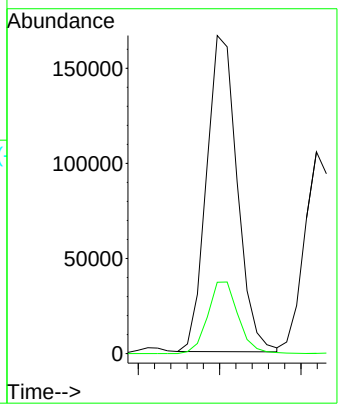
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

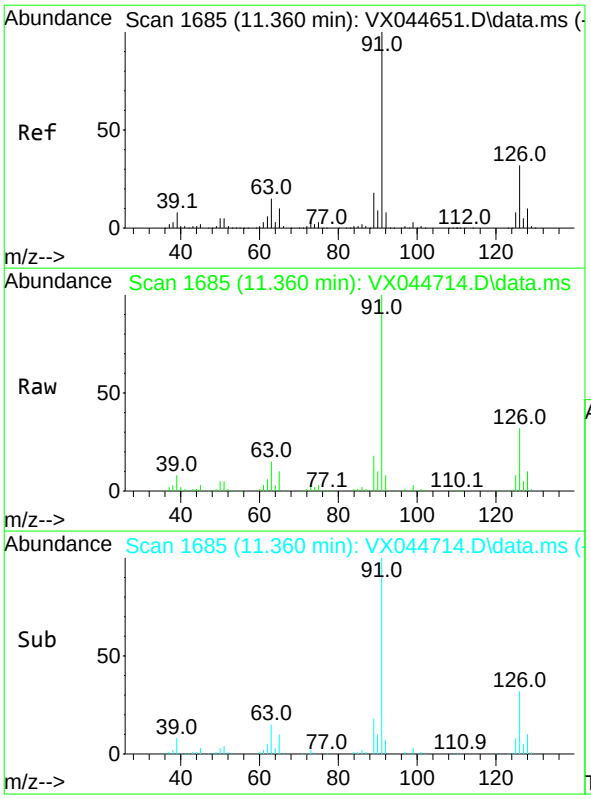



#78
n-propylbenzene
Concen: 18.333 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 91 Resp: 218400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.4 | 34.1 |

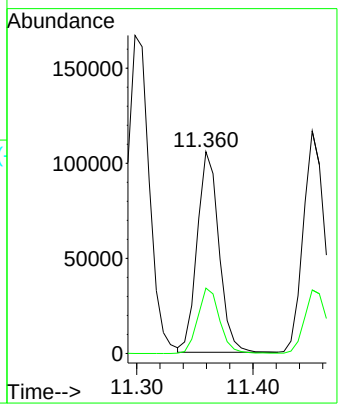





#79
2-Chlorotoluene
Concen: 17.842 ug/l
RT: 11.360 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 91 Resp: 137301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.7 | 16.2 | 48.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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Reviewed By :John Carlone 01/28/2025
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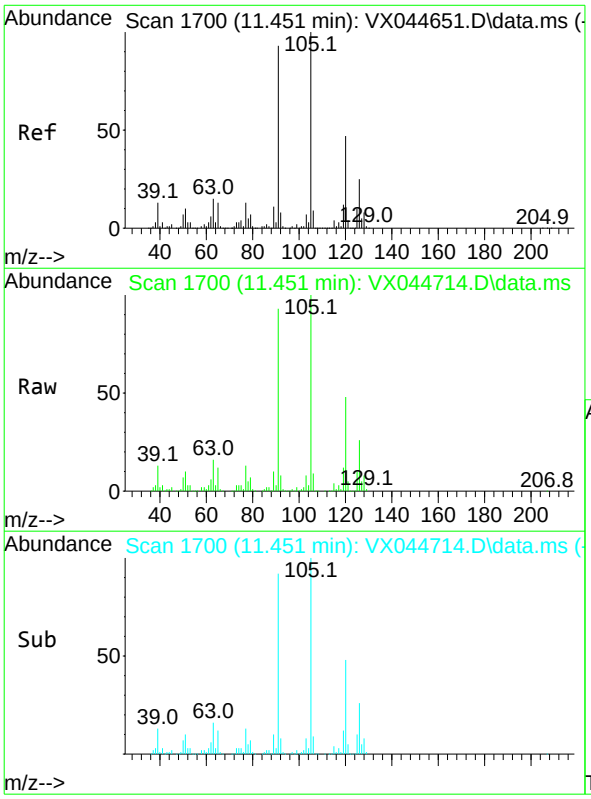
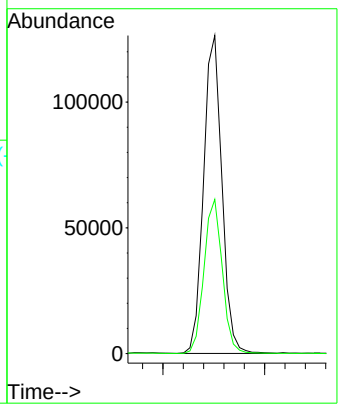
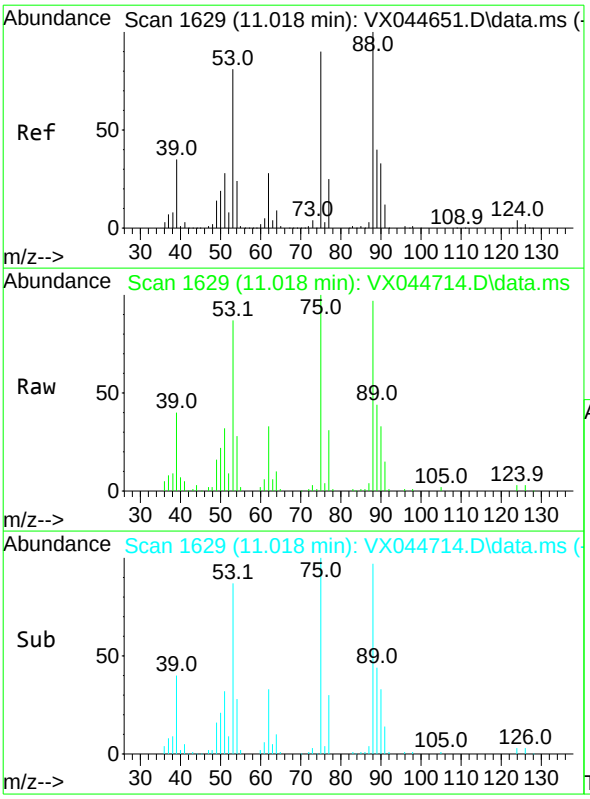



#80
1,3,5-Trimethylbenzene
Concen: 17.967 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:105 Resp: 158002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.3 | 23.7 | 71.1 |






#81
trans-1,4-Dichloro-2-butene
Concen: 17.096 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 75 Resp: 23991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.3 | 74.3 | 111.5 |
| 89 | 43.5 | 37.4 | 56.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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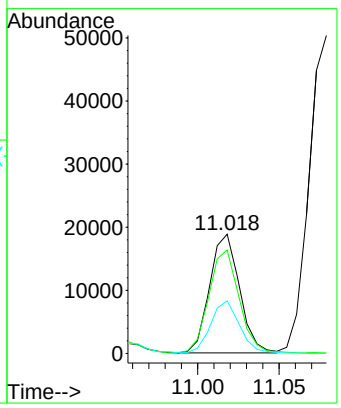
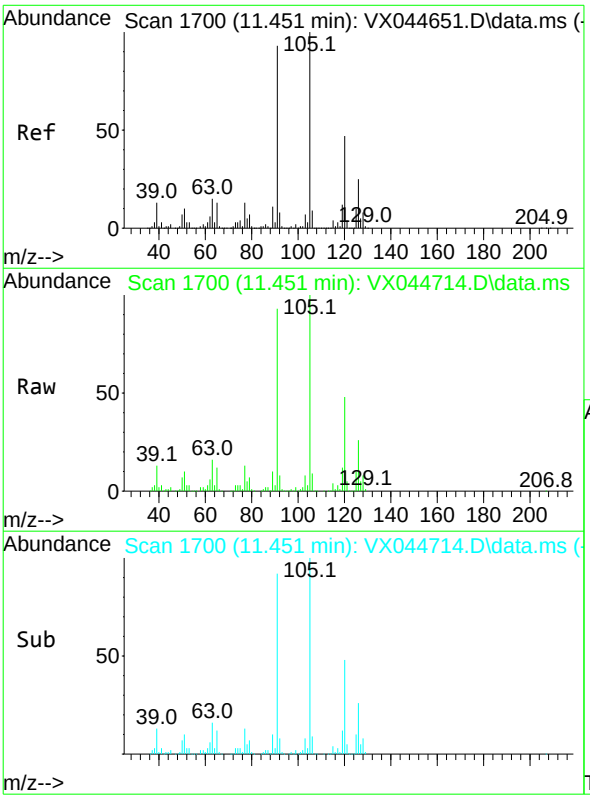
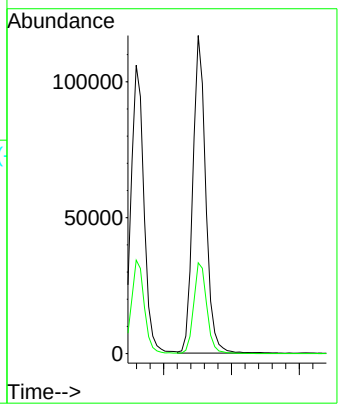


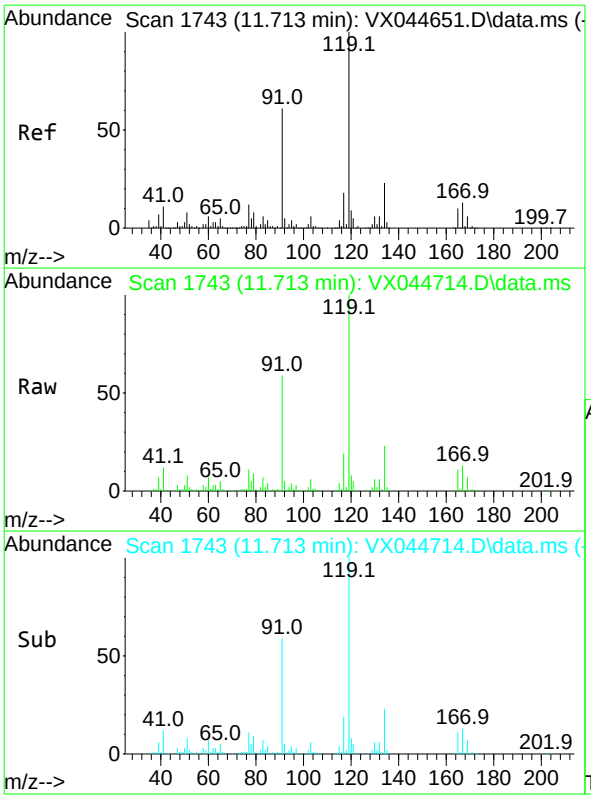




#82
4-Chlorotoluene
Concen: 18.197 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 91 Resp: 153401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.3 | 13.9 | 41.7 |

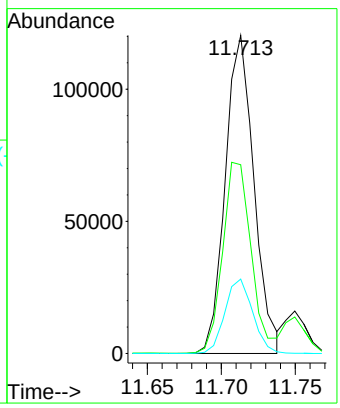





#83
tert-Butylbenzene
Concen: 17.676 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:119 Resp: 162534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 58.7 | 30.0 | 90.0 |
| 134 | 22.7 | 11.2 | 33.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
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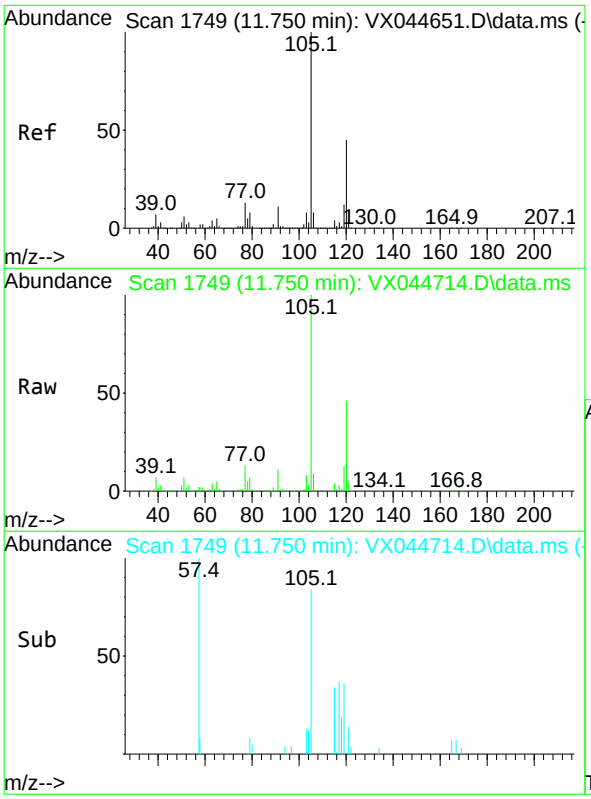
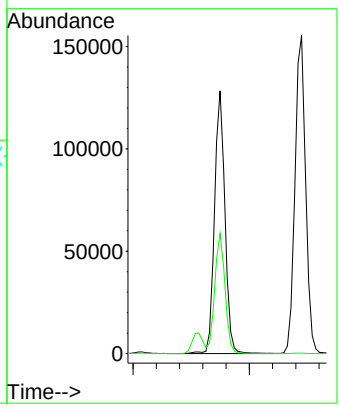
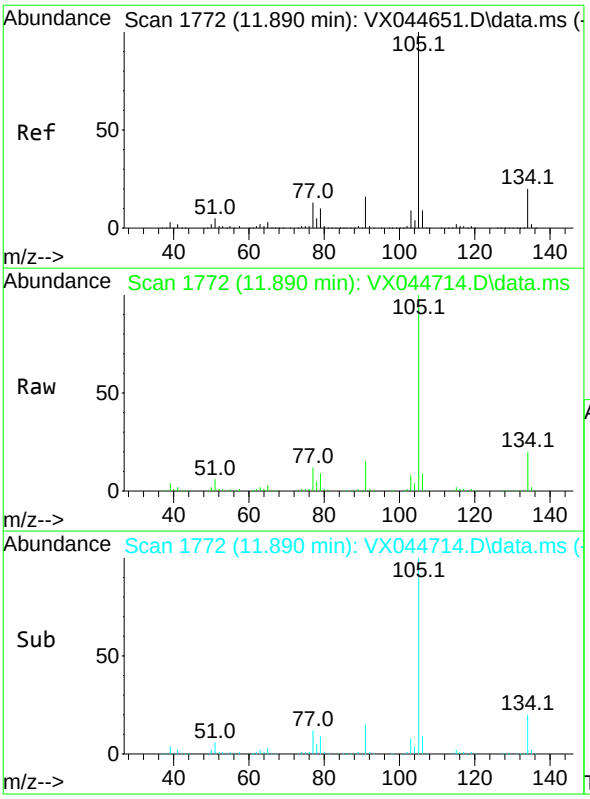



#84
1,2,4-Trimethylbenzene
Concen: 17.895 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:105 Resp: 159915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.2 | 22.2 | 66.6 |

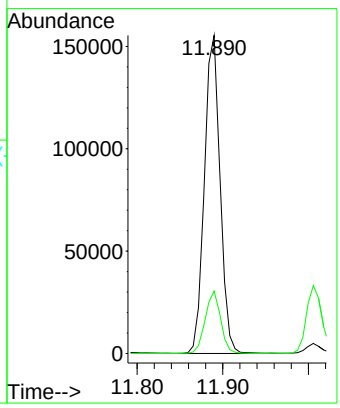





#85
sec-Butylbenzene
Concen: 18.485 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:105 Resp: 197899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.8 | 29.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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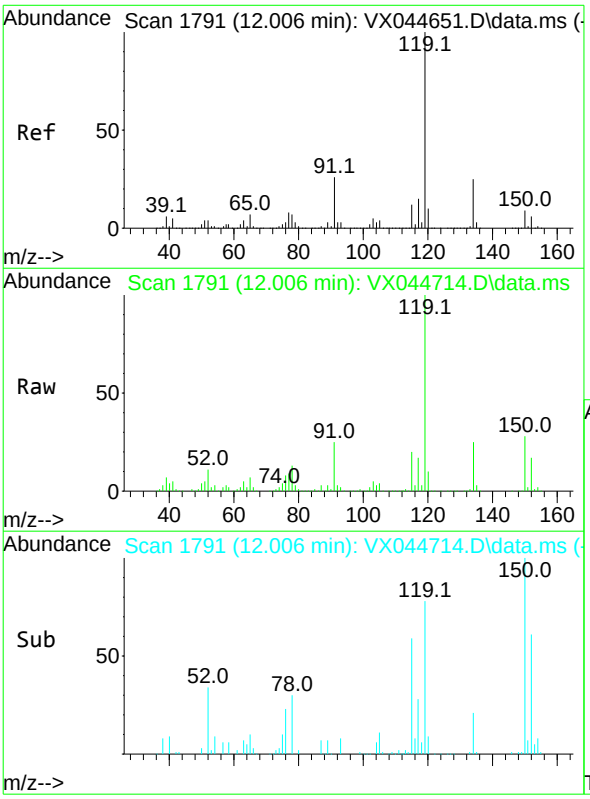
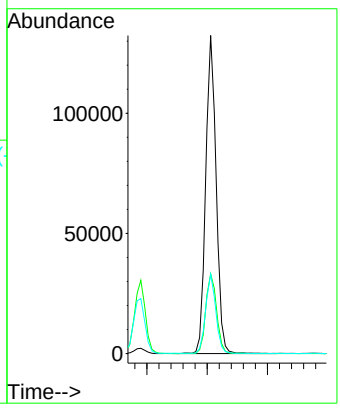
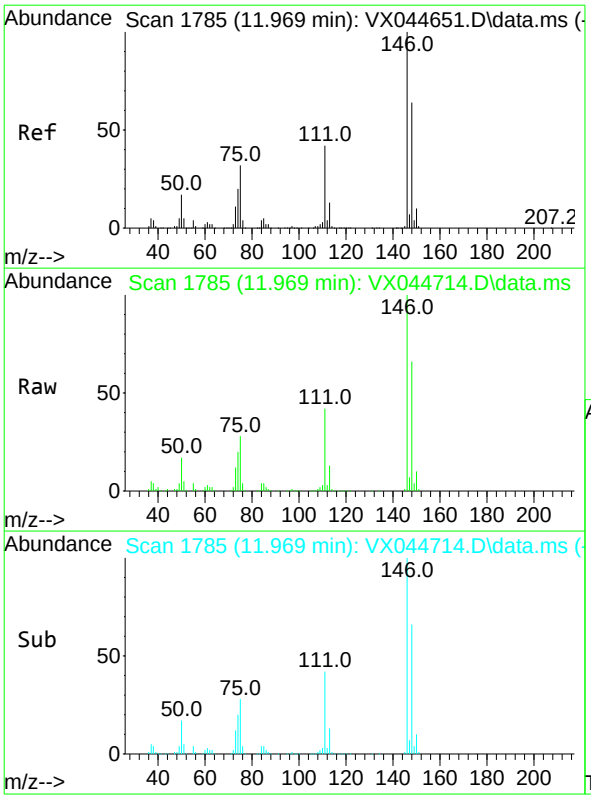



#86
p-Isopropyltoluene
Concen: 18.102 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:119 Resp: 159273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 12.8 | 38.4 |
| 91 | 24.2 | 12.7 | 38.1 |

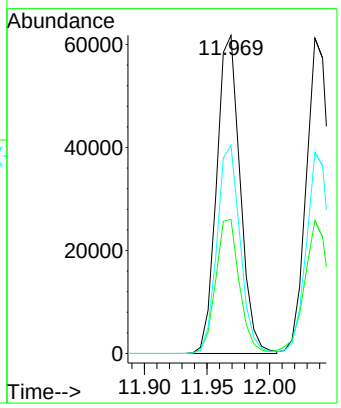





#87
1,3-Dichlorobenzene
Concen: 18.444 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:146 Resp: 80761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.4 | 21.9 | 65.7 |
| 148 | 64.4 | 31.8 | 95.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

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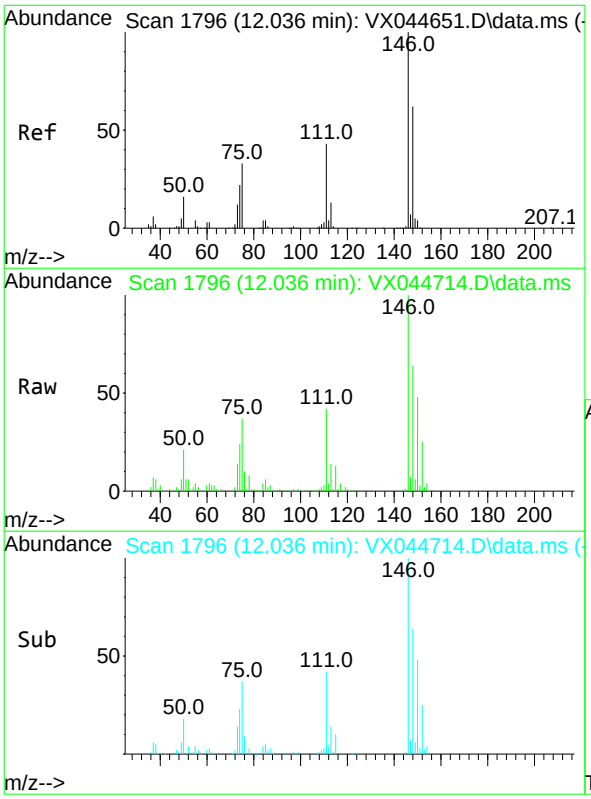
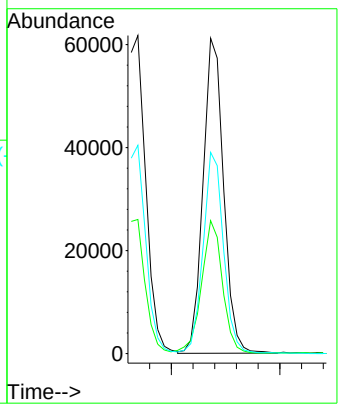
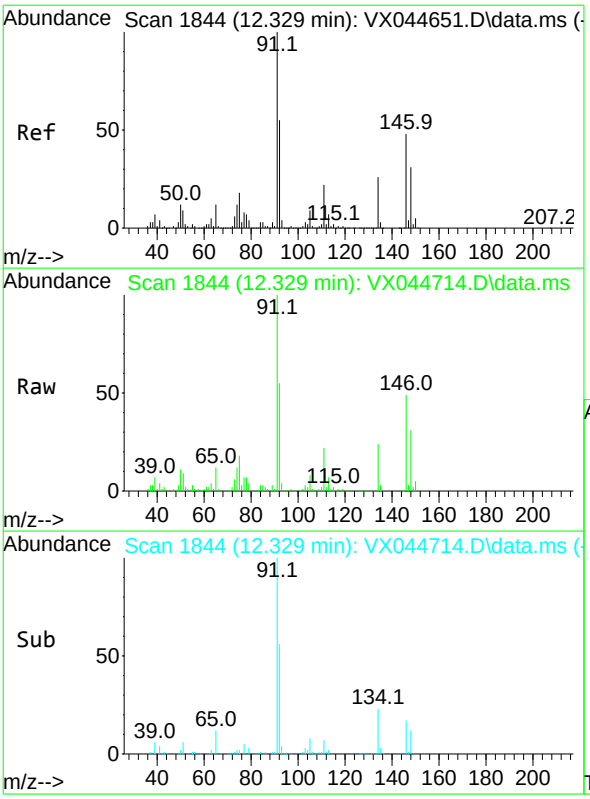



#88
1,4-Dichlorobenzene
Concen: 18.173 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:146 Resp: 80443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.8 | 21.5 | 64.5 |
| 148 | 64.0 | 32.1 | 96.5 |

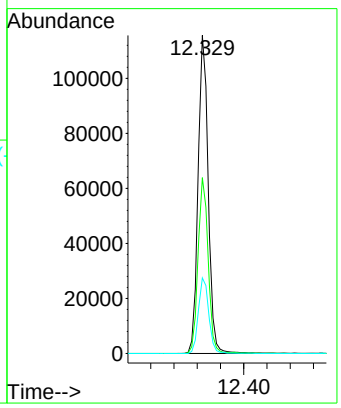





#89
n-Butylbenzene
Concen: 18.544 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 91 Resp: 140139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 27.4 | 82.0 |
| 134 | 24.3 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

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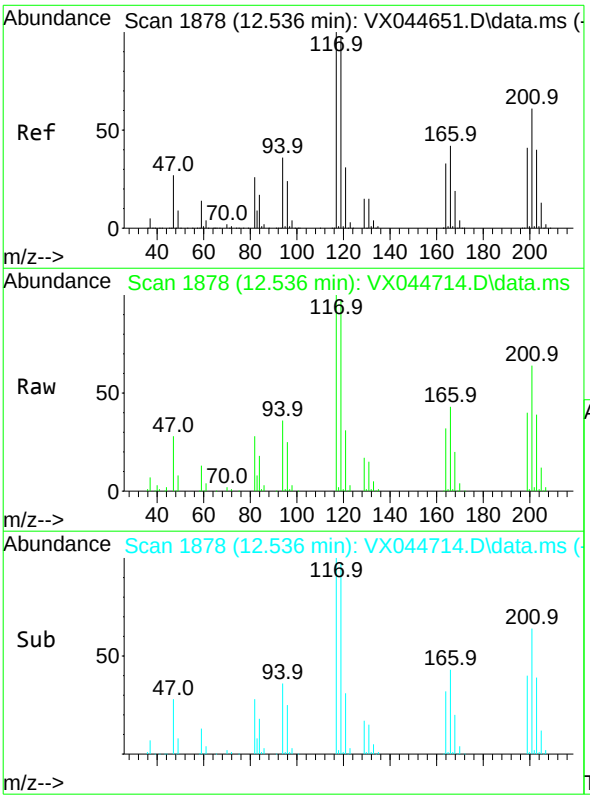
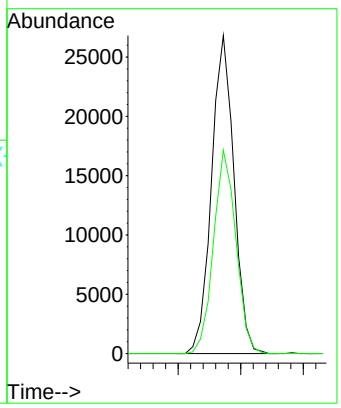
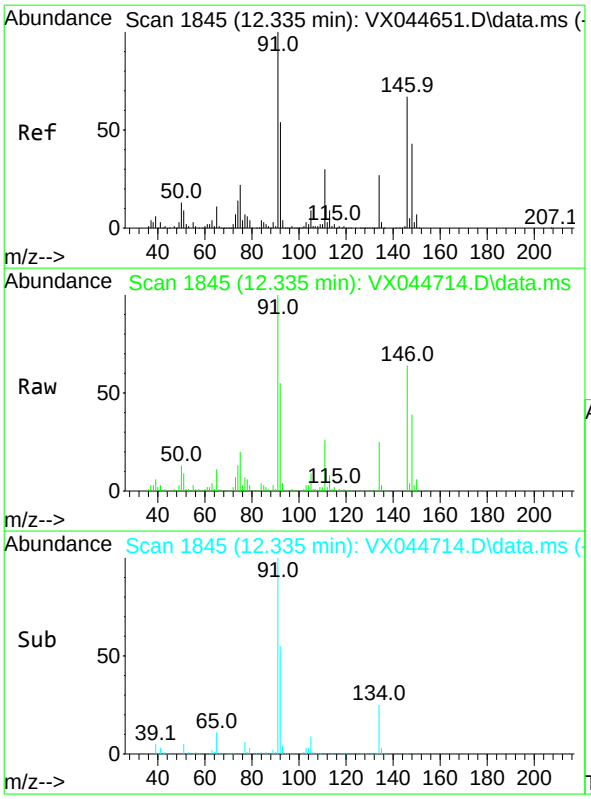



#90
Hexachloroethane
Concen: 16.760 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:117 Resp: 33393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.0 | 32.3 | 96.8 |

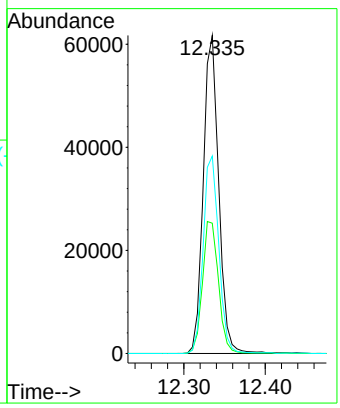





#91
1,2-Dichlorobenzene
Concen: 18.066 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:146 Resp: 81242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 22.4 | 67.2 |
| 148 | 62.7 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

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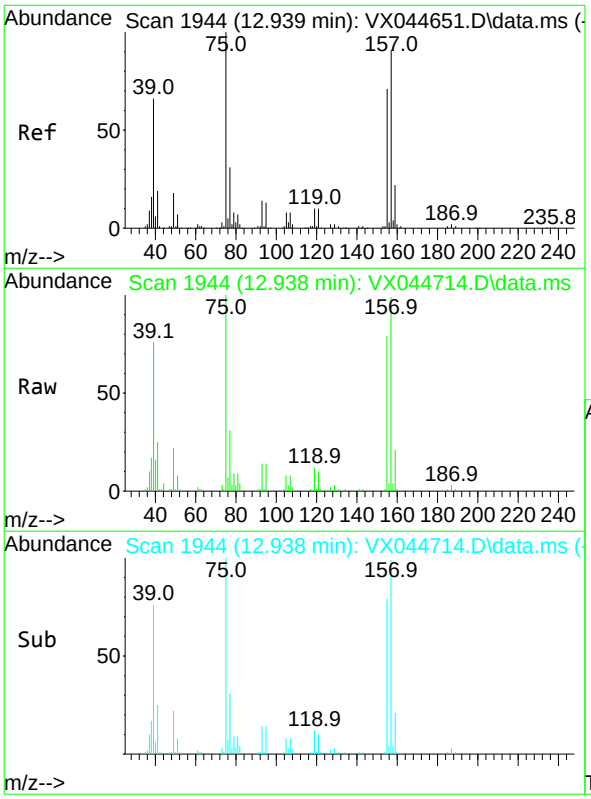
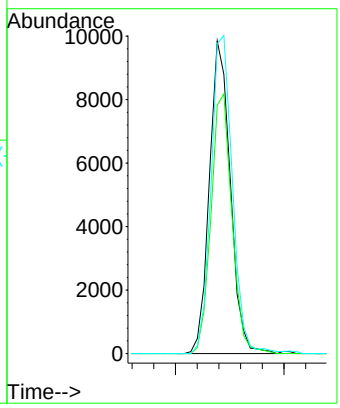
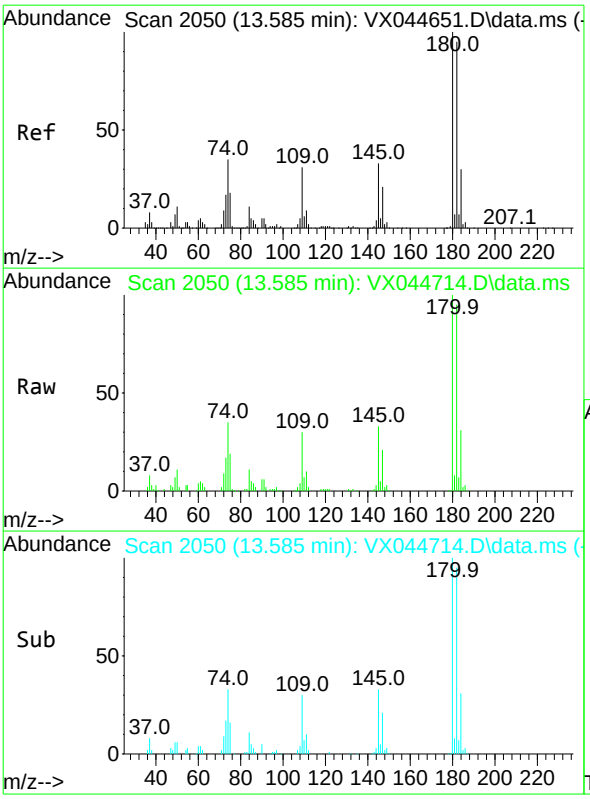



#92
1,2-Dibromo-3-Chloropropane
Concen: 14.461 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 75 Resp: 13195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.9 | 39.0 | 116.9 |
| 157 | 104.2 | 49.9 | 149.7 |

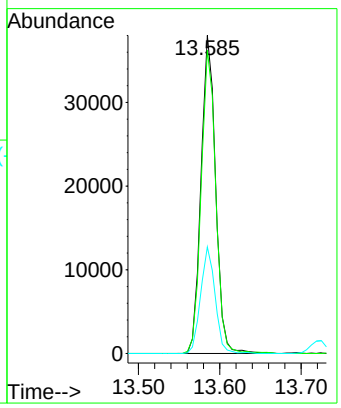





#93
1,2,4-Trichlorobenzene
Concen: 17.593 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:180 Resp: 47294

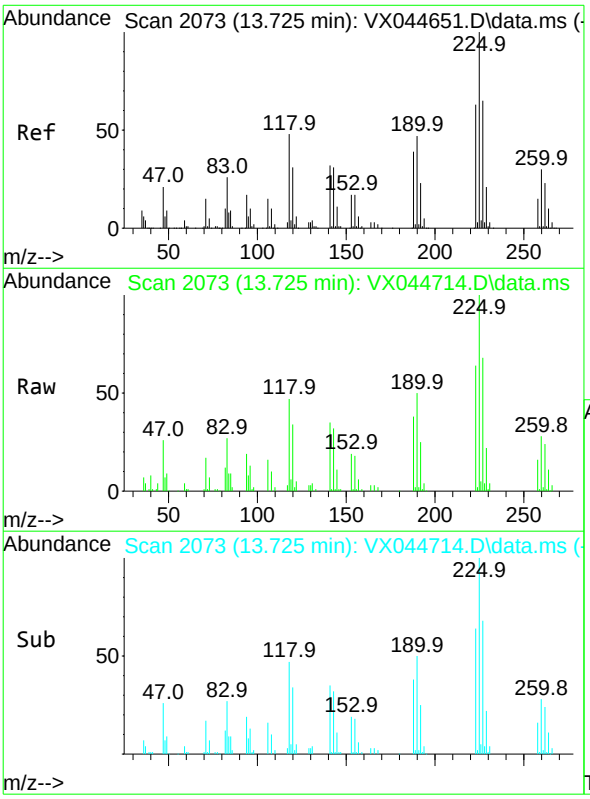
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.4 | 142.2 |
| 145 | 33.3 | 16.7 | 50.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

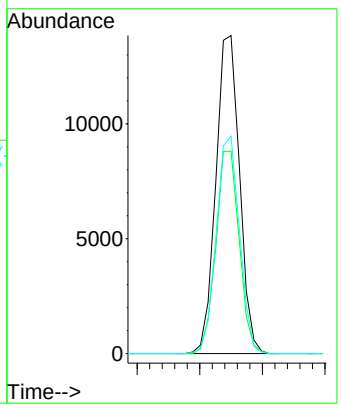
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

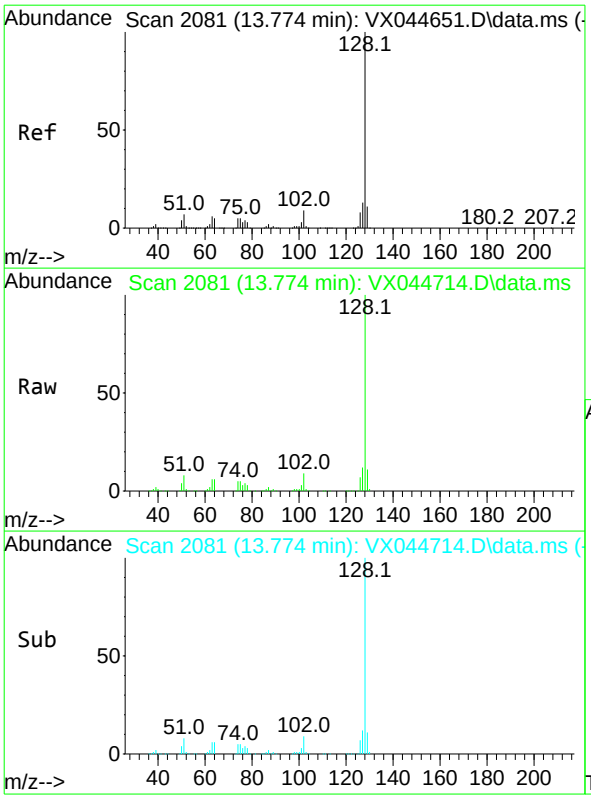



#94
Hexachlorobutadiene
Concen: 17.210 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:225 Resp: 18173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 31.9 | 95.7 |
| 227 | 67.2 | 31.8 | 95.4 |

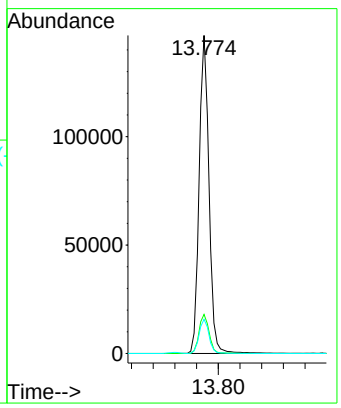





#95
Naphthalene
Concen: 17.766 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:128 Resp: 184203

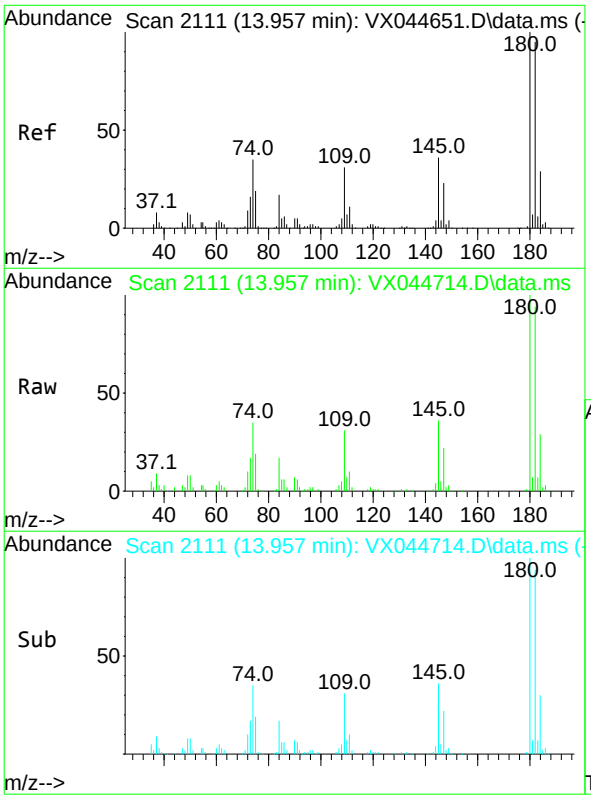
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.3 | 15.5 |
| 129 | 10.8 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

**Manual Integrations**
**APPROVED**

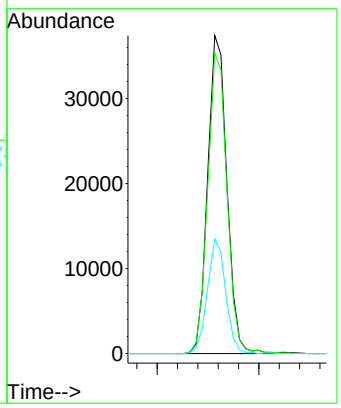
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025




#96
1,2,3-Trichlorobenzene
Concen: 17.616 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:180 Resp: 49087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.2 | 141.6 |
| 145 | 34.4 | 17.5 | 52.6 |



Raw Data: **VX044715.D**

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: | VX0127WBSD01 | SDG No.: | Q1173 |
| Lab Sample ID: | VX0127WBSD01 | Matrix: | Water |
| Analytical Method: | SW8260 | % Solid: | 0 |
| Sample Wt/Vol: | 5 Units: mL | Final Vol: | 5000 uL |
| Soil Aliquot Vol: | uL | Test: | VOCMS Group1 |
| GC Column: | DB-624UI ID : 0.18 | Level : | LOW |
| Prep Method : | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044715.D | 1 | | 01/27/25 11:52 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| **TARGETS** | | | | | | | |
| 74-87-3 | Chloromethane | 19.1 | | 0.35 | 0.50 | 1.00 | ug/L |
| 75-01-4 | Vinyl Chloride | 17.7 | | 0.34 | 0.75 | 1.00 | ug/L |
| 74-83-9 | Bromomethane | 19.9 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-00-3 | Chloroethane | 41.0 | | 0.56 | 0.75 | 1.00 | ug/L |
| 75-69-4 | Trichlorofluoromethane | 17.6 | | 0.34 | 0.50 | 1.00 | ug/L |
| 76-13-1 | 1,1,2-Trichlorotrifluoroethane | 19.0 | | 0.25 | 0.50 | 1.00 | ug/L |
| 75-35-4 | 1,1-Dichloroethene | 19.2 | | 0.26 | 0.75 | 1.00 | ug/L |
| 67-64-1 | Acetone | 87.8 | | 1.40 | 3.80 | 5.00 | ug/L |
| 75-15-0 | Carbon Disulfide | 19.3 | | 0.32 | 0.75 | 1.00 | ug/L |
| 1634-04-4 | Methyl tert-butyl Ether | 18.0 | | 0.16 | 0.50 | 1.00 | ug/L |
| 75-09-2 | Methylene Chloride | 18.2 | | 0.32 | 0.50 | 1.00 | ug/L |
| 156-60-5 | trans-1,2-Dichloroethene | 18.4 | | 0.25 | 0.50 | 1.00 | ug/L |
| 75-34-3 | 1,1-Dichloroethane | 18.6 | | 0.23 | 0.50 | 1.00 | ug/L |
| 78-93-3 | 2-Butanone | 98.0 | | 1.30 | 2.50 | 5.00 | ug/L |
| 56-23-5 | Carbon Tetrachloride | 17.2 | | 0.25 | 0.50 | 1.00 | ug/L |
| 156-59-2 | cis-1,2-Dichloroethene | 18.0 | | 0.25 | 0.75 | 1.00 | ug/L |
| 67-66-3 | Chloroform | 18.0 | | 0.26 | 0.50 | 1.00 | ug/L |
| 71-55-6 | 1,1,1-Trichloroethane | 16.7 | | 0.19 | 0.50 | 1.00 | ug/L |
| 108-87-2 | Methylcyclohexane | 19.4 | | 0.19 | 0.50 | 1.00 | ug/L |
| 71-43-2 | Benzene | 19.2 | | 0.16 | 0.50 | 1.00 | ug/L |
| 107-06-2 | 1,2-Dichloroethane | 17.4 | | 0.24 | 0.50 | 1.00 | ug/L |
| 79-01-6 | Trichloroethene | 18.5 | | 0.32 | 0.75 | 1.00 | ug/L |
| 78-87-5 | 1,2-Dichloropropane | 19.1 | | 0.19 | 0.50 | 1.00 | ug/L |
| 75-27-4 | Bromodichloromethane | 17.4 | | 0.24 | 0.50 | 1.00 | ug/L |
| 108-10-1 | 4-Methyl-2-Pentanone | 100 | | 0.75 | 2.50 | 5.00 | ug/L |
| 108-88-3 | Toluene | 19.2 | | 0.18 | 0.50 | 1.00 | ug/L |
| 10061-02-6 | t-1,3-Dichloropropene | 18.0 | | 0.21 | 0.50 | 1.00 | ug/L |
| 10061-01-5 | cis-1,3-Dichloropropene | 18.4 | | 0.18 | 0.50 | 1.00 | ug/L |
| 79-00-5 | 1,1,2-Trichloroethane | 18.9 | | 0.21 | 0.50 | 1.00 | ug/L |
| 591-78-6 | 2-Hexanone | 99.7 | | 1.10 | 2.50 | 5.00 | ug/L |

Raw Data: **VX044715.D**

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: | VX0127WBSD01 | | SDG No.: | Q1173 | |
| Lab Sample ID: | VX0127WBSD01 | | Matrix: | Water | |
| Analytical Method: | SW8260 | | % Solid: | 0 | |
| Sample Wt/Vol: | 5 Units: | mL | Final Vol: | 5000 | uL |
| Soil Aliquot Vol: | | uL | Test: | VOCMS Group1 | |
| GC Column: | DB-624UI ID : | 0.18 | Level : | LOW | |
| Prep Method : | | | | | |

| File ID/Qc Batch: | Dilution: | Prep Date | Date Analyzed | Prep Batch ID |
|---|---|---|---|---|
| VX044715.D | 1 | | 01/27/25 11:52 | VX012725 |

| CAS Number | Parameter | Conc. | Qualifier | MDL | LOD | LOQ / CRQL | Units |
|---|---|---|---|---|---|---|---|
| 124-48-1 | Dibromochloromethane | 18.2 | | 0.18 | 0.50 | 1.00 | ug/L |
| 127-18-4 | Tetrachloroethene | 18.7 | | 0.25 | 0.50 | 1.00 | ug/L |
| 108-90-7 | Chlorobenzene | 18.7 | | 0.13 | 0.50 | 1.00 | ug/L |
| 100-41-4 | Ethyl Benzene | 18.8 | | 0.16 | 0.50 | 1.00 | ug/L |
| 179601-23-1 | m/p-Xylenes | 38.1 | | 0.31 | 1.00 | 2.00 | ug/L |
| 95-47-6 | o-Xylene | 18.9 | | 0.14 | 0.50 | 1.00 | ug/L |
| 100-42-5 | Styrene | 19.6 | | 0.16 | 0.50 | 1.00 | ug/L |
| 75-25-2 | Bromoform | 17.8 | | 0.21 | 0.50 | 1.00 | ug/L |
| 98-82-8 | Isopropylbenzene | 18.4 | | 0.13 | 0.50 | 1.00 | ug/L |
| 79-34-5 | 1,1,2,2-Tetrachloroethane | 18.3 | | 0.27 | 0.50 | 1.00 | ug/L |
| 541-73-1 | 1,3-Dichlorobenzene | 18.8 | | 0.24 | 0.50 | 1.00 | ug/L |
| 106-46-7 | 1,4-Dichlorobenzene | 18.7 | | 0.27 | 0.50 | 1.00 | ug/L |
| 95-50-1 | 1,2-Dichlorobenzene | 18.6 | | 0.19 | 0.50 | 1.00 | ug/L |
| **SURROGATES** | | | | | | | |
| 17060-07-0 | 1,2-Dichloroethane-d4 | 42.1 | | 81 - 118 | | 84% | SPK: 50 |
| 1868-53-7 | Dibromofluoromethane | 45.1 | | 80 - 119 | | 90% | SPK: 50 |
| 2037-26-5 | Toluene-d8 | 48.1 | | 89 - 112 | | 96% | SPK: 50 |
| 460-00-4 | 4-Bromofluorobenzene | 46.9 | | 85 - 114 | | 94% | SPK: 50 |
| **INTERNAL STANDARDS** | | | | | | | |
| 363-72-4 | Pentafluorobenzene | 181000 | 5.543 | | | | |
| 540-36-3 | 1,4-Difluorobenzene | 330000 | 6.75 | | | | |
| 3114-55-4 | Chlorobenzene-d5 | 287000 | 10.049 | | | | |
| 3855-82-1 | 1,4-Dichlorobenzene-d4 | 126000 | 12.018 | | | | |

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

Sample Results: **VX044715.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044715.D
Acq On : 27 Jan 2025 11:52
Operator : JC/MD
Sample : VX0127WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 04:09:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| **Internal Standards** | | | | | | |
| 1) Pentafluorobenzene | 5.543 | 168 | 181106 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.750 | 114 | 329948 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 287428 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 125692 | 50.000 | ug/l | 0.00 |
| **System Monitoring Compounds** | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 115109 | 42.108 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 84.220% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 94586 | 45.125 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 90.240% | | | |
| 50) Toluene-d8 | 8.646 | 98 | 351325 | 48.069 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 96.140% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 127855 | 46.926 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 93.860% | | | |
| **Target Compounds** | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 42531 | 17.452 | ug/l | 97 |
| 3) Chloromethane | 1.300 | 50 | 50371 | 19.113 | ug/l | 98 |
| 4) Vinyl Chloride | 1.373 | 62 | 46045 | 17.683 | ug/l | 97 |
| 5) Bromomethane | 1.593 | 94 | 12365 | 19.887 | ug/l | 98 |
| 6) Chloroethane | 1.666 | 64 | 19570 | 40.984 | ug/l | 92 |
| 7) Trichlorofluoromethane | 1.873 | 101 | 50717 | 17.623 | ug/l | 97 |
| 8) Diethyl Ether | 2.129 | 74 | 15983 | 13.762 | ug/l | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 2.318 | 101 | 41192 | 19.041 | ug/l | 99 |
| 10) Methyl Iodide | 2.446 | 142 | 51850 | 17.555 | ug/l | 98 |
| 11) Tert butyl alcohol | 2.971 | 59 | 52572 | 86.265 | ug/l # | 84 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 40671 | 19.179 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 19607 | 68.368 | ug/l | 100 |
| 14) Allyl chloride | 2.654 | 41 | 75257 | 18.227 | ug/l | 96 |
| 15) Acrylonitrile | 3.056 | 53 | 118706 | 99.311 | ug/l | 99 |
| 16) Acetone | 2.379 | 43 | 94951 | 87.792 | ug/l | 95 |
| 17) Carbon Disulfide | 2.501 | 76 | 111388 | 19.250 | ug/l | 99 |
| 18) Methyl Acetate | 2.696 | 43 | 66037 | 19.791 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 138618 | 18.047 | ug/l | 97 |
| 20) Methylene Chloride | 2.782 | 84 | 45743 | 18.162 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.086 | 96 | 40658 | 18.364 | ug/l | 98 |
| 22) Diisopropyl ether | 3.757 | 45 | 141633 | 19.734 | ug/l | 97 |
| 23) Vinyl Acetate | 3.714 | 43 | 602846 | 95.967 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 78982 | 18.558 | ug/l | 100 |
| 25) 2-Butanone | 4.550 | 43 | 157607 | 98.011 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.464 | 77 | 67624 | 16.394 | ug/l | 95 |
| 27) cis-1,2-Dichloroethene | 4.476 | 96 | 50234 | 18.038 | ug/l | 98 |
| 28) Bromochloromethane | 4.891 | 49 | 39174 | 19.697 | ug/l | 95 |
| 29) Tetrahydrofuran | 5.001 | 42 | 102301 | 98.627 | ug/l | 98 |
| 30) Chloroform | 5.080 | 83 | 77159 | 17.964 | ug/l | 97 |
| 31) Cyclohexane | 5.464 | 56 | 71276 | 20.706 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 65982 | 16.710 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 53609 | 18.373 | ug/l | 99 |
| 37) Ethyl Acetate | 4.708 | 43 | 61115 | 19.668 | ug/l | 97 |
| 38) Carbon Tetrachloride | 5.665 | 117 | 56337 | 17.165 | ug/l | 98 |
| 39) Methylcyclohexane | 7.372 | 83 | 75204 | 19.415 | ug/l | 97 |
| 40) Benzene | 6.031 | 78 | 173290 | 19.166 | ug/l | 98 |

Sample Results: **VX044715.D**

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044715.D
Acq On : 27 Jan 2025 11:52
Operator : JC/MD
Sample : VX0127WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 04:09:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

| Compound | R.T. | QIon | Response | Conc Units | Dev(Min) |
|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.915 | 41 | 34872 | 19.259 ug/l | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 57405 | 17.395 ug/l | 99 |
| 43) Isopropyl Acetate | 6.336 | 43 | 107342 | 18.779 ug/l | 99 |
| 44) Trichloroethene | 7.122 | 130 | 40128 | 18.461 ug/l | 95 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 43371 | 19.056 ug/l | 96 |
| 46) Dibromomethane | 7.573 | 93 | 30193 | 17.427 ug/l | 99 |
| 47) Bromodichloromethane | 7.817 | 83 | 61842 | 17.405 ug/l | 96 |
| 48) Methyl methacrylate | 7.689 | 41 | 50212 | 18.924 ug/l | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 20996 | 379.274 ug/l | 96 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 319737 | 101.217 ug/l | 98 |
| 52) Toluene | 8.713 | 92 | 106487 | 19.242 ug/l | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 65922 | 17.958 ug/l | 97 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 73264 | 18.406 ug/l | 96 |
| 55) 1,1,2-Trichloroethane | 9.146 | 97 | 42407 | 18.940 ug/l | 94 |
| 56) Ethyl methacrylate | 9.116 | 69 | 73137 | 18.998 ug/l | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 73209 | 19.201 ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 157160 | 83.152 ug/l | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 231694 | 99.695 ug/l | 99 |
| 60) Dibromochloromethane | 9.518 | 129 | 47950 | 18.246 ug/l | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 44437 | 18.938 ug/l | 98 |
| 64) Tetrachloroethene | 9.268 | 164 | 33701 | 18.672 ug/l | 99 |
| 65) Chlorobenzene | 10.073 | 112 | 114176 | 18.702 ug/l | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.158 | 131 | 39214 | 17.674 ug/l | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 199900 | 18.765 ug/l | 98 |
| 68) m/p-Xylenes | 10.299 | 106 | 150751 | 38.135 ug/l | 98 |
| 69) o-Xylene | 10.640 | 106 | 75639 | 18.921 ug/l | 99 |
| 70) Styrene | 10.652 | 104 | 126504 | 19.600 ug/l | 97 |
| 71) Bromoform | 10.799 | 173 | 32141 | 17.798 ug/l # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 189275 | 18.433 ug/l | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 89318 | 17.648 ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 64877 | 18.294 ug/l | 98 |
| 76) 1,2,3-Trichloropropane | 11.237 | 75 | 54022m | 17.710 ug/l | |
| 77) Bromobenzene | 11.195 | 156 | 44492 | 18.538 ug/l | 94 |
| 78) n-propylbenzene | 11.298 | 91 | 217748 | 19.229 ug/l | 100 |
| 79) 2-Chlorotoluene | 11.359 | 91 | 134830 | 18.432 ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 158844 | 19.003 ug/l | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 23711 | 17.776 ug/l | 94 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 150487 | 18.780 ug/l | 98 |
| 83) tert-Butylbenzene | 11.713 | 119 | 160244 | 18.334 ug/l | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 158646 | 18.677 ug/l | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 196136 | 19.273 ug/l | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 159144 | 19.029 ug/l | 98 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 78221 | 18.793 ug/l | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 78858 | 18.742 ug/l | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 142284 | 19.808 ug/l | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 33238 | 17.551 ug/l | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 79447 | 18.586 ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75 | 12965 | 14.949 ug/l | 95 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 48749 | 19.078 ug/l | 97 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 18012 | 17.945 ug/l | 98 |
| 95) Naphthalene | 13.774 | 128 | 182044 | 18.471 ug/l | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.956 | 180 | 48973 | 18.489 ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044715.D
Acq On : 27 Jan 2025 11:52
Operator : JC/MD
Sample : VX0127WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 04:09:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

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

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

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044715.D
Acq On : 27 Jan 2025 11:52
Operator : JC/MD
Sample : VX0127WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

Quant Time: Jan 28 04:09:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations APPROVED**

Reviewed By :John Carlone 01/28/2025
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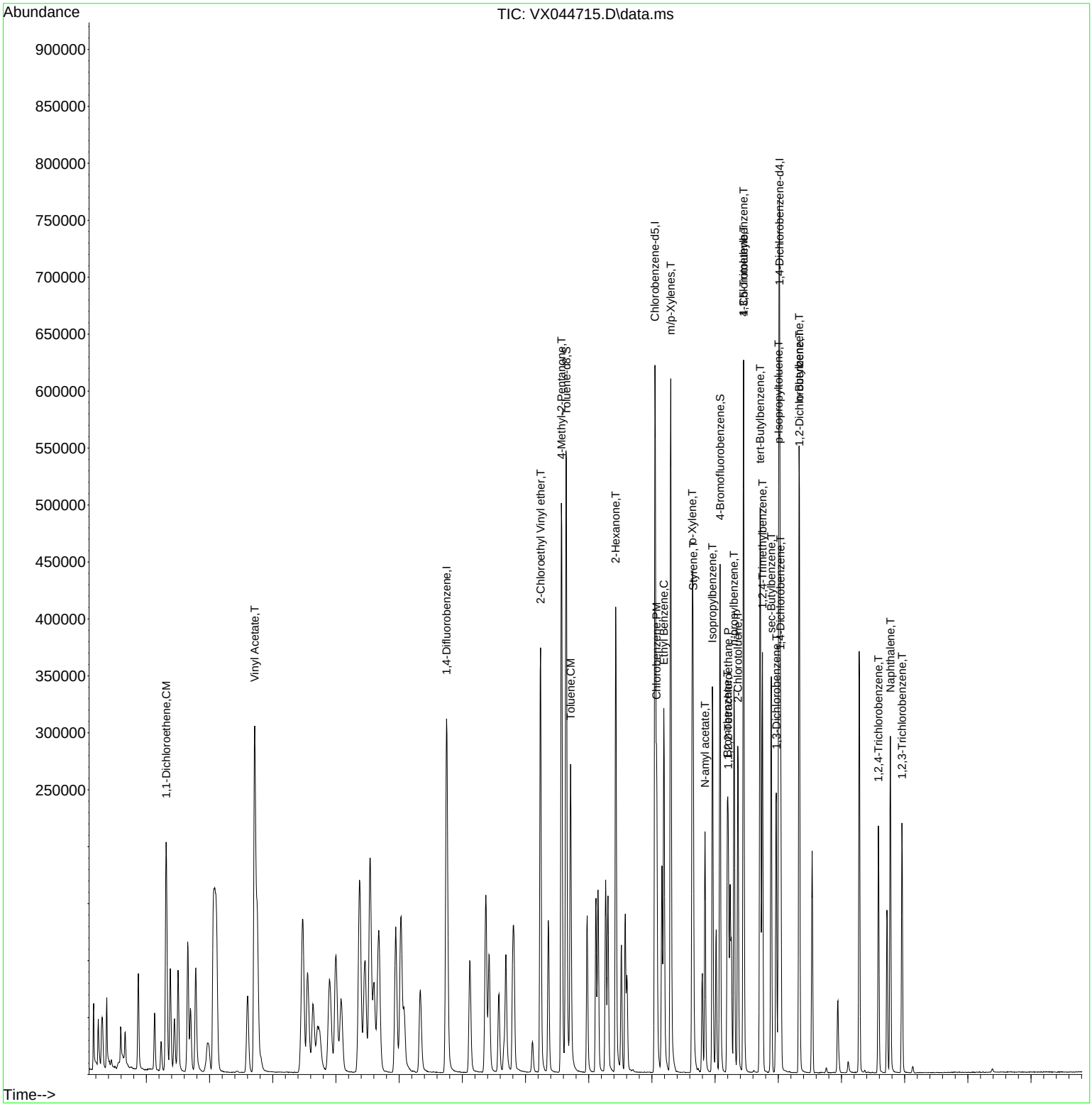
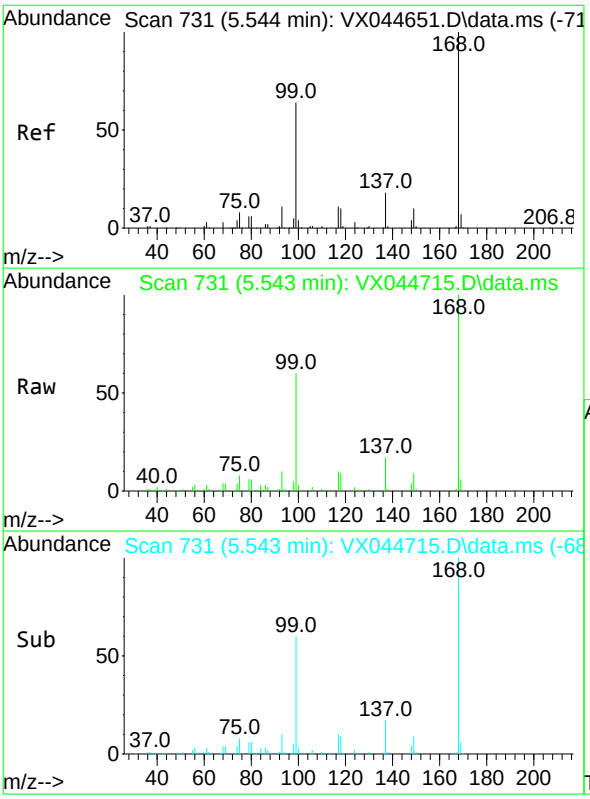
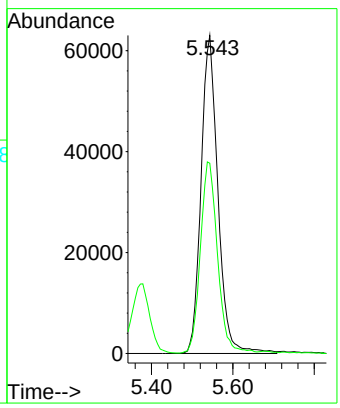





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 73
Delta R.T. -0.001 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:168 Resp: 181106

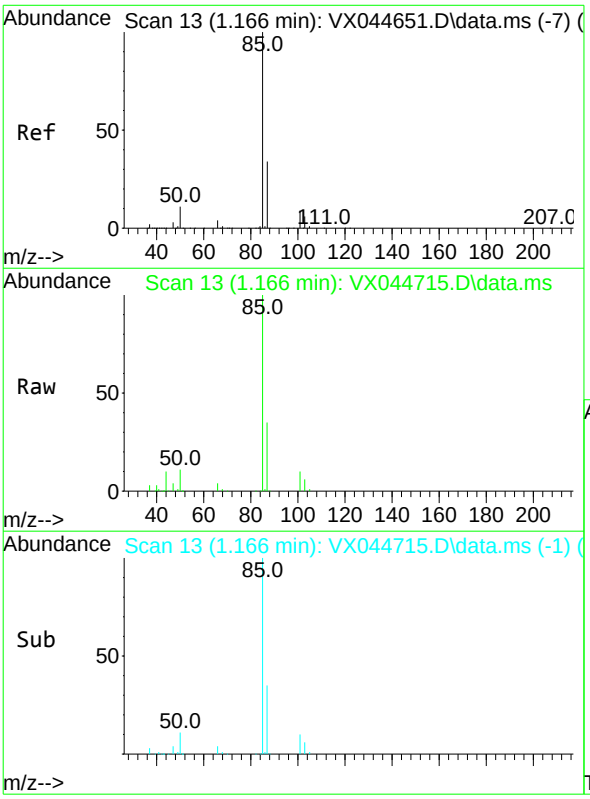
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.7 | 51.1 | 76.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations APPROVED**

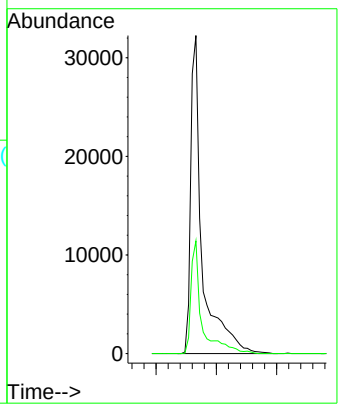
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

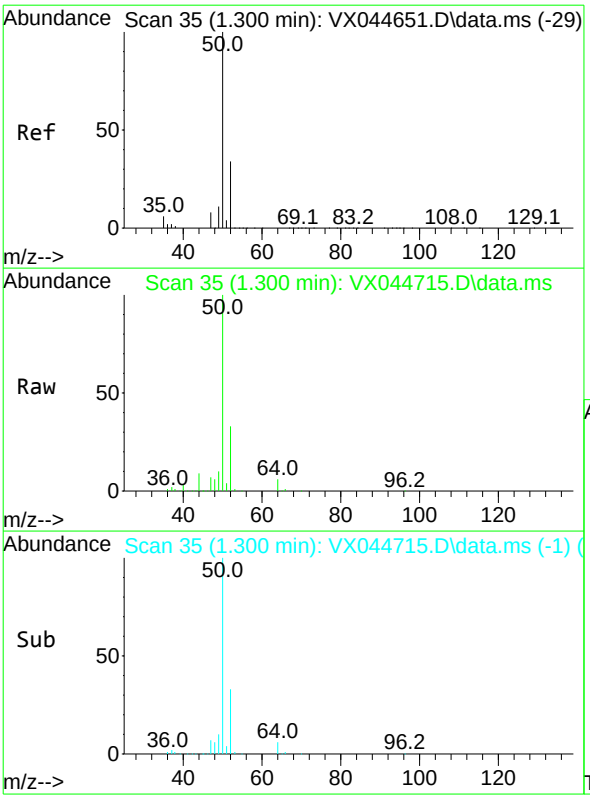



#2
Dichlorodifluoromethane
Concen: 17.452 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 85 Resp: 42531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 35.4 | 16.8 | 50.4 |

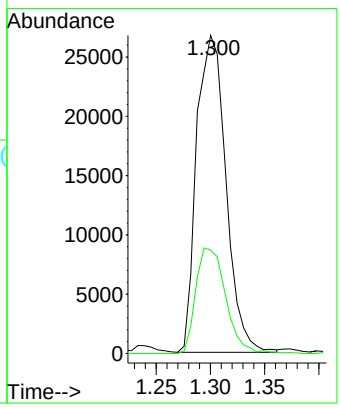





#3
Chloromethane
Concen: 19.113 ug/l
RT: 1.300 min Scan# 35
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 50 Resp: 50371

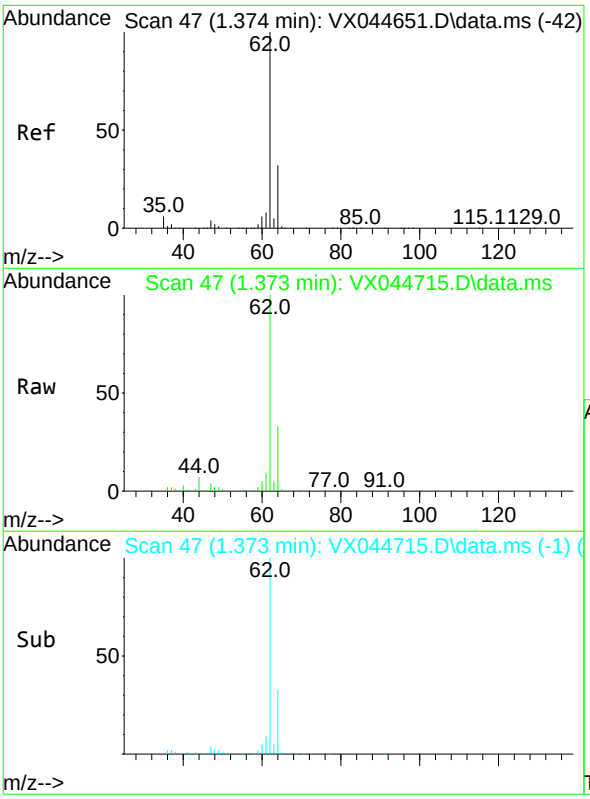
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.6 | 27.0 | 40.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

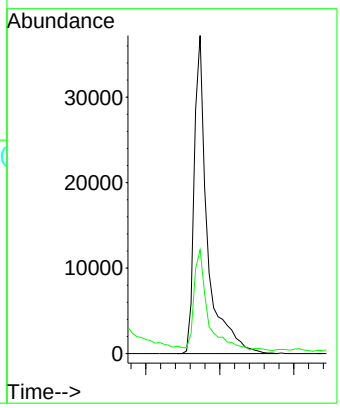
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

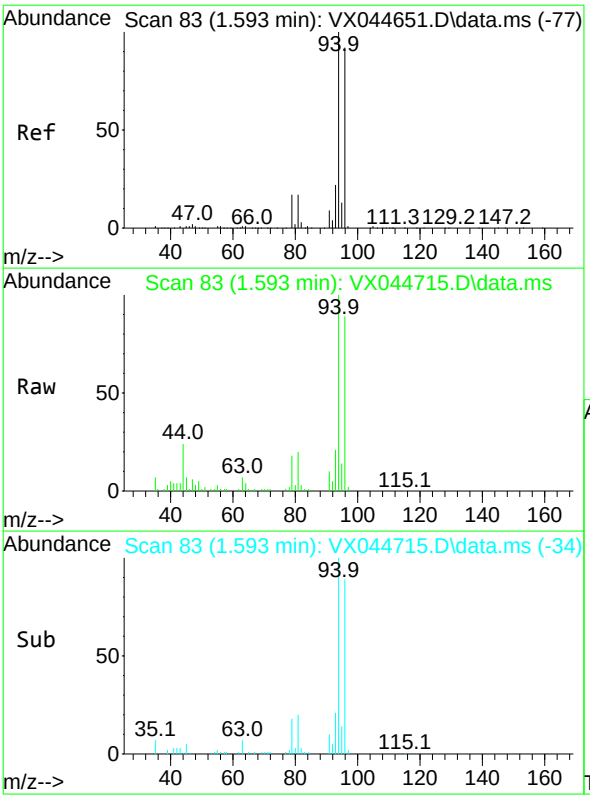



#4
Vinyl Chloride
Concen: 17.683 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 62 Resp: 46045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.4 | 26.6 | 39.8 |

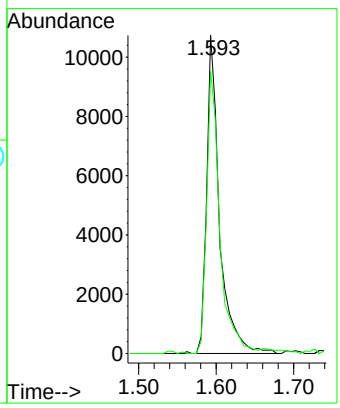





#5
Bromomethane
Concen: 19.887 ug/l
RT: 1.593 min Scan# 83
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 94 Resp: 12365

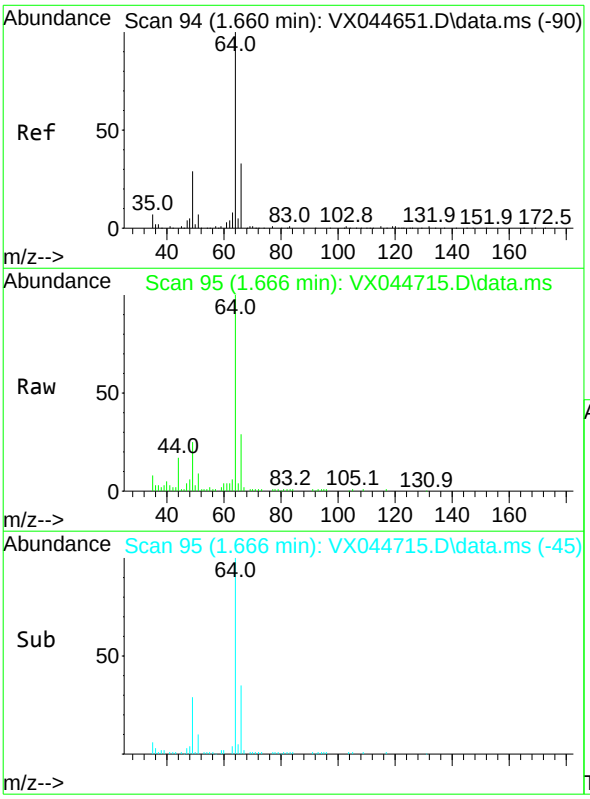
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.8 | 72.8 | 109.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

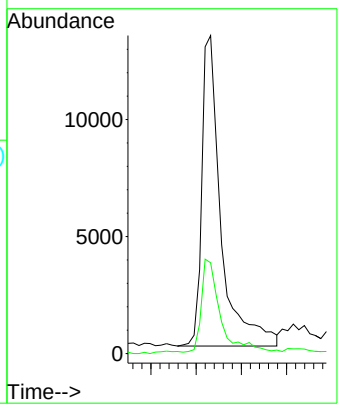
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

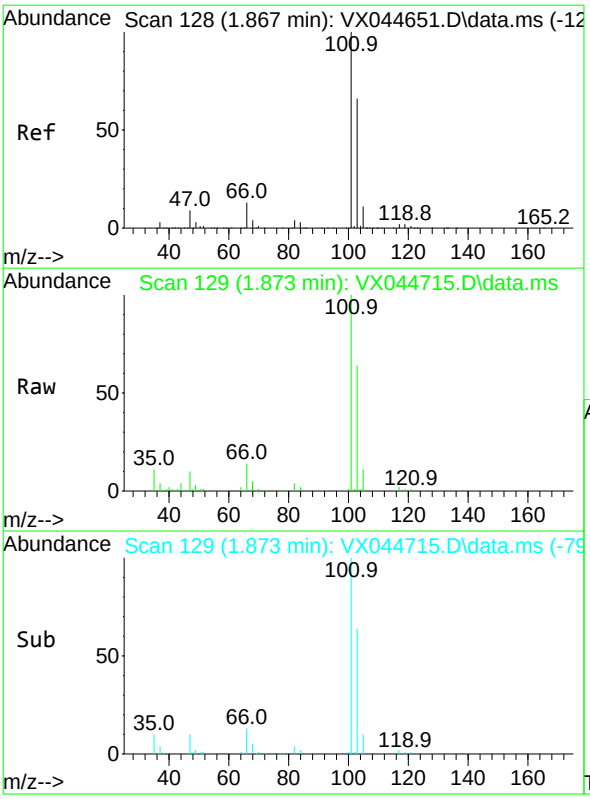



#6
Chloroethane
Concen: 40.984 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 64 Resp: 19570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 28.6 | 26.6 | 39.8 |

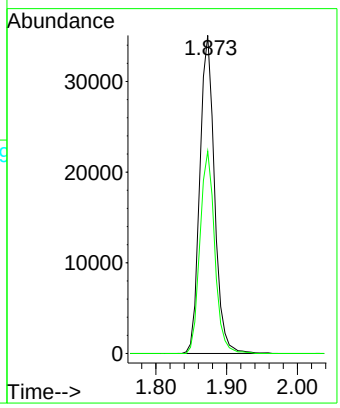





#7
Trichlorofluoromethane
Concen: 17.623 ug/l
RT: 1.873 min Scan# 12
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:101 Resp: 50717

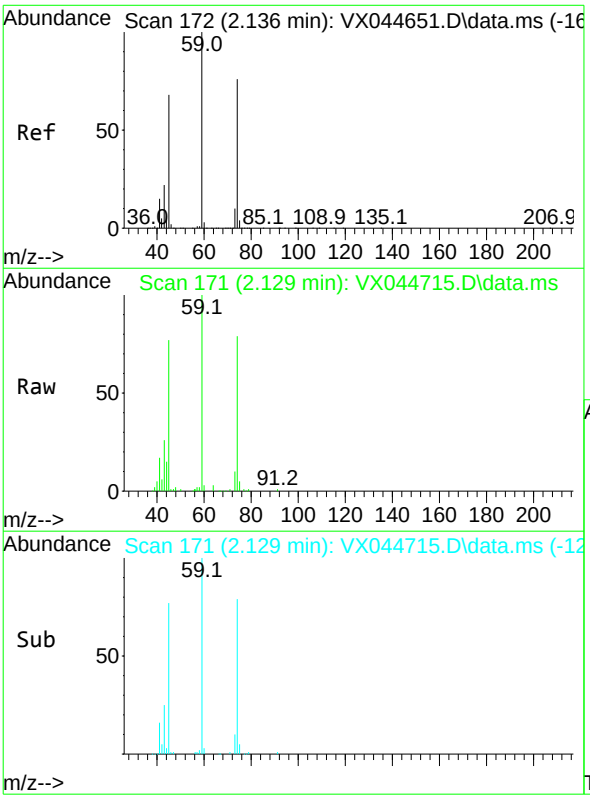
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 52.5 | 78.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

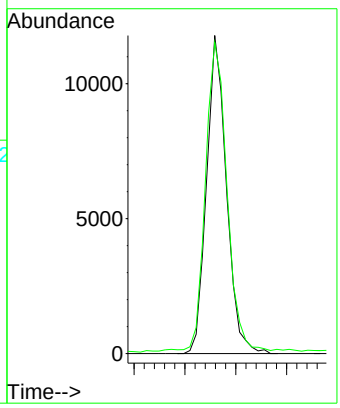
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

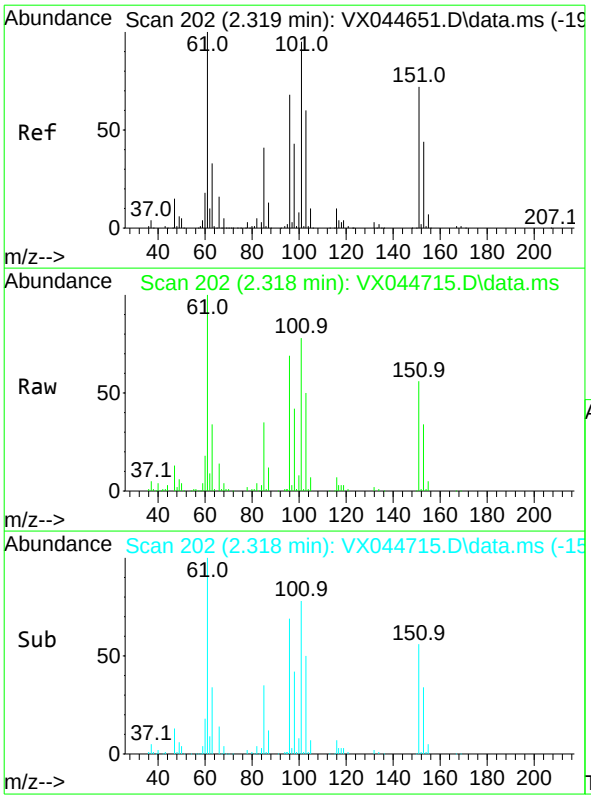



#8
Diethyl Ether
Concen: 13.762 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 74 Resp: 15983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 106.3 | 47.1 | 141.3 |






#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.041 ug/l
RT: 2.318 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:101 Resp: 41192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.4 | 35.3 | 52.9 |
| 151 | 72.0 | 58.2 | 87.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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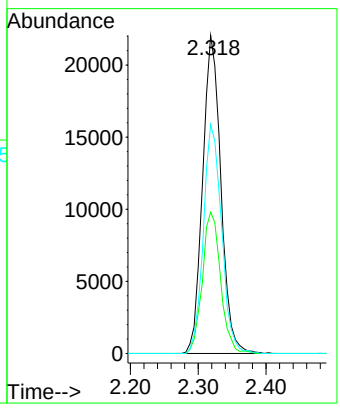
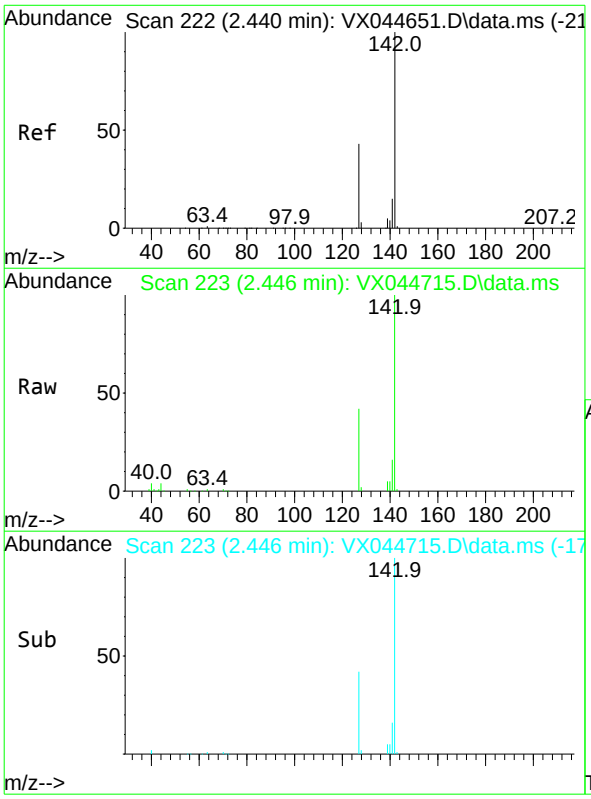
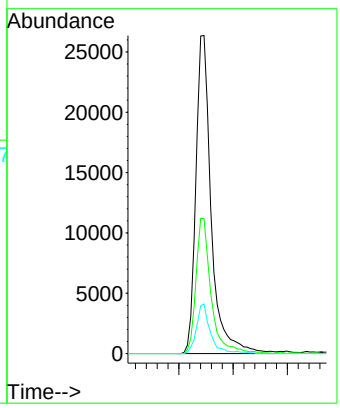


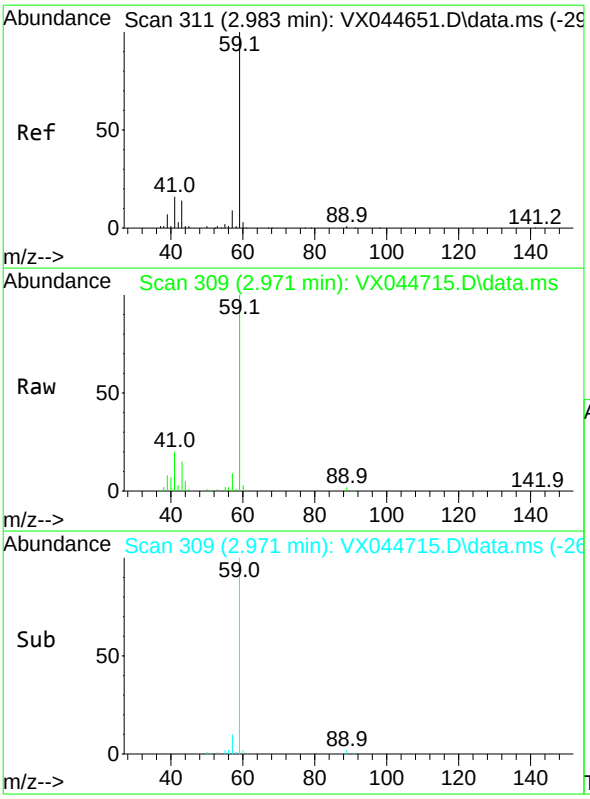




#10
Methyl Iodide
Concen: 17.555 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:142 Resp: 51850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 42.0 | 35.0 | 52.4 |
| 141 | 14.3 | 11.7 | 17.5 |






#11
Tert butyl alcohol
Concen: 86.265 ug/l
RT: 2.971 min Scan# 30
Delta R.T. -0.012 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 59 Resp: 52572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.2 | 3.9 | 5.9# |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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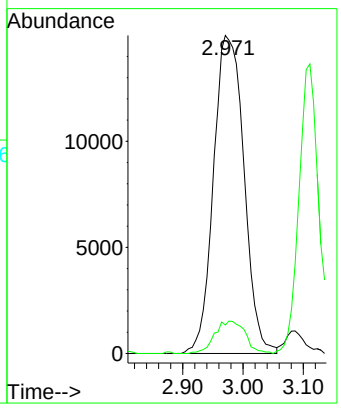
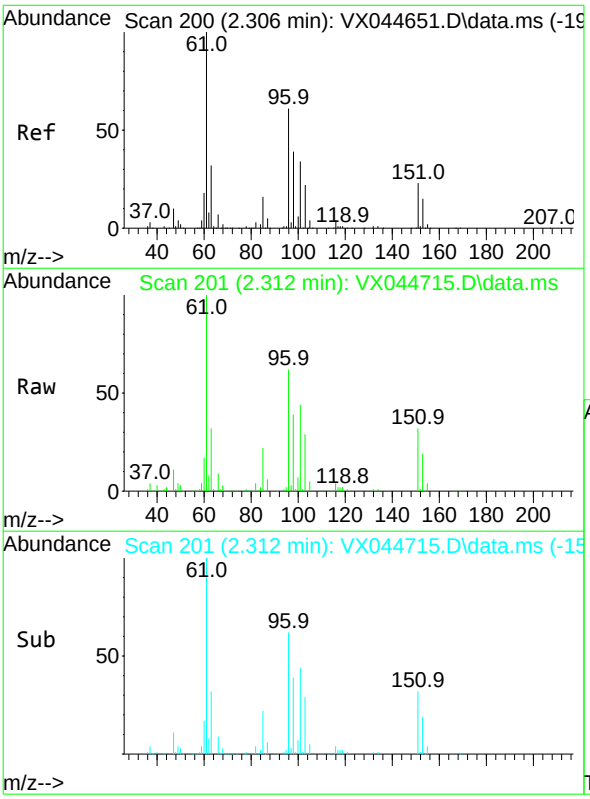
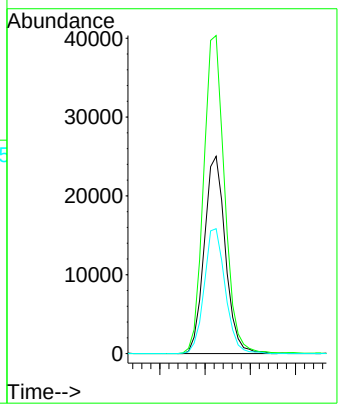


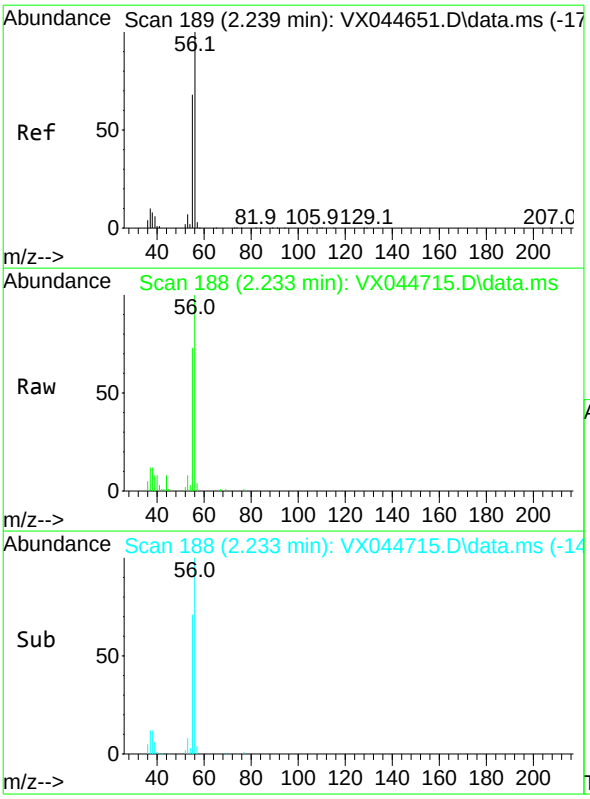




#12
1,1-Dichloroethene
Concen: 19.179 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 96 Resp: 40671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.2 | 131.1 | 196.7 |
| 98 | 63.3 | 51.2 | 76.8 |

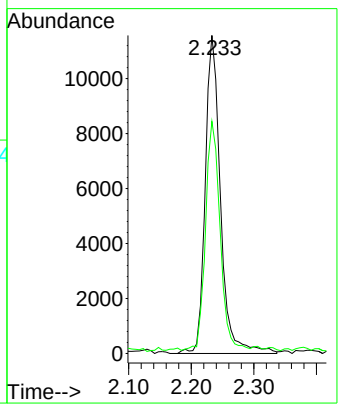





#13
Acrolein
Concen: 68.368 ug/l
RT: 2.233 min Scan# 18
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 56 Resp: 19607

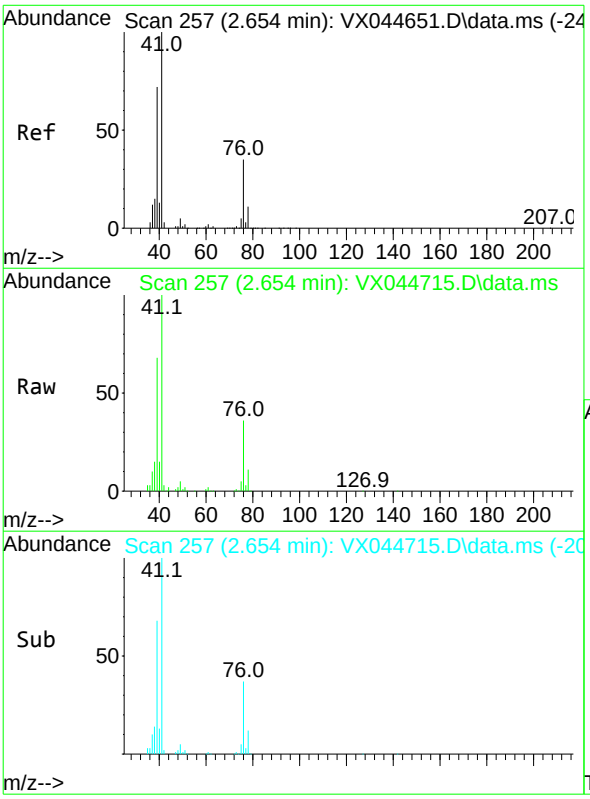
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.6 | 55.1 | 82.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

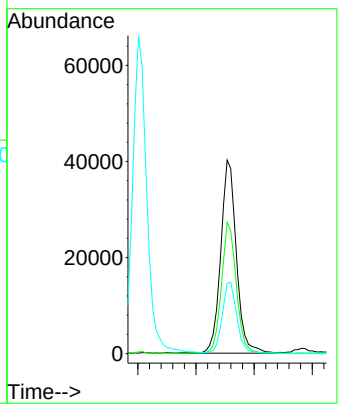
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

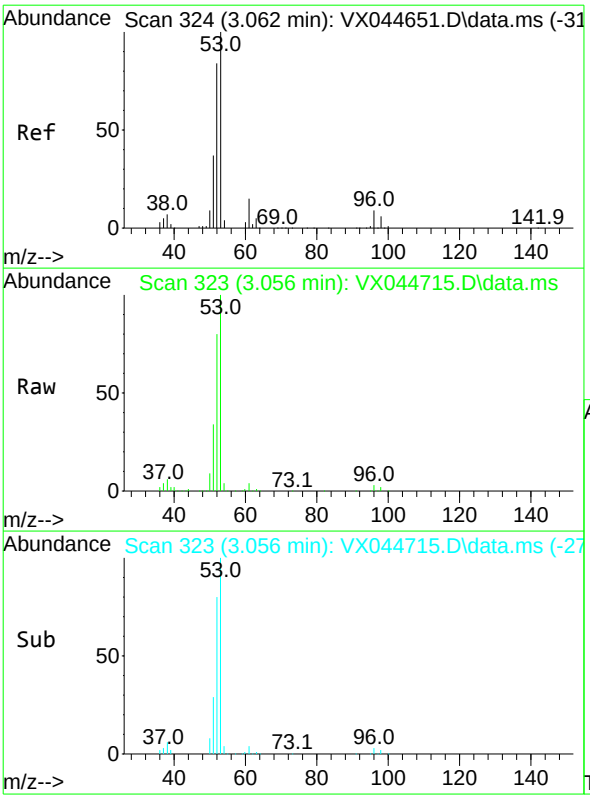



#14
Allyl chloride
Concen: 18.227 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 41 Resp: 75257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 64.4 | 54.9 | 82.3 |
| 76 | 34.9 | 28.4 | 42.6 |

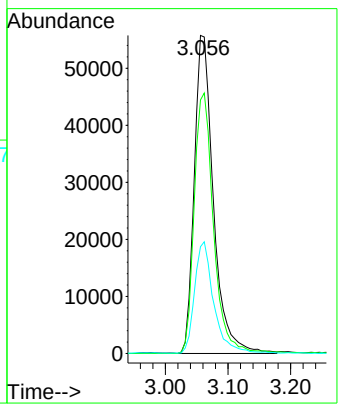





#15
Acrylonitrile
Concen: 99.311 ug/l
RT: 3.056 min Scan# 32
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 53 Resp: 118706

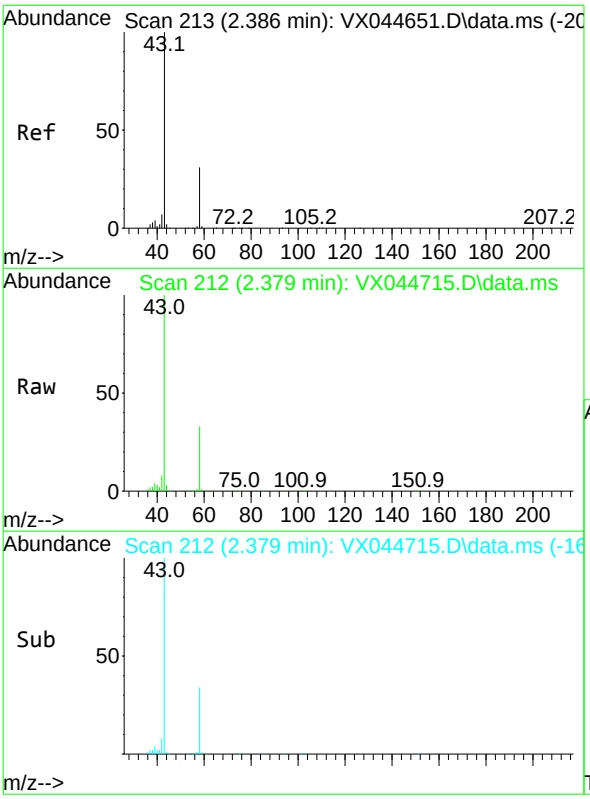
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.0 | 66.0 | 99.0 |
| 51 | 34.8 | 28.9 | 43.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

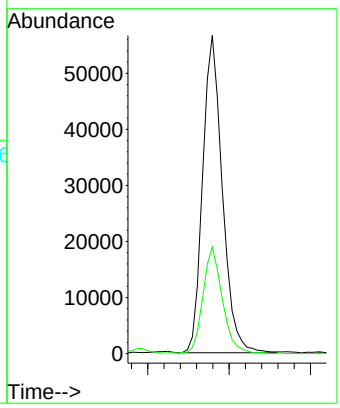
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

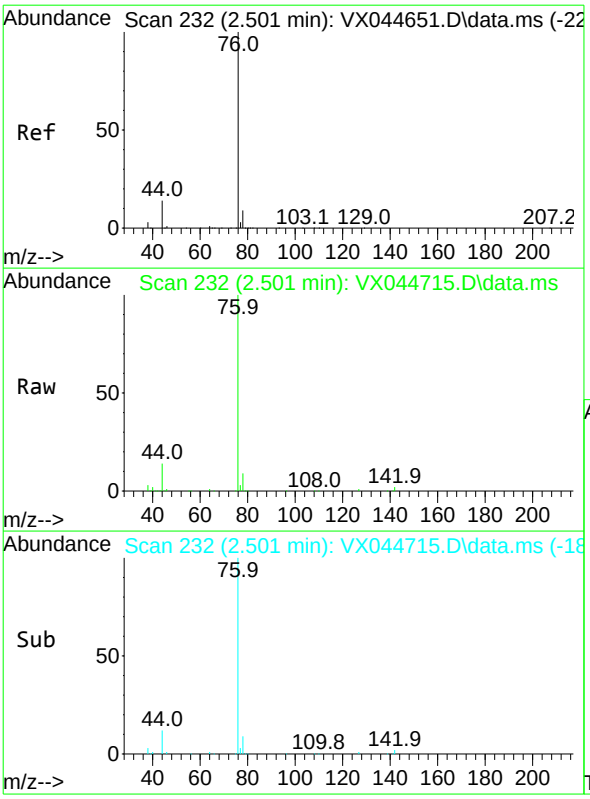



#16
Acetone
Concen: 87.792 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 94951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.4 | 24.6 | 37.0 |

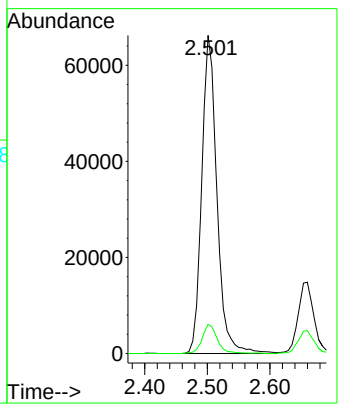





#17
Carbon Disulfide
Concen: 19.250 ug/l
RT: 2.501 min Scan# 23
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 76 Resp: 111388

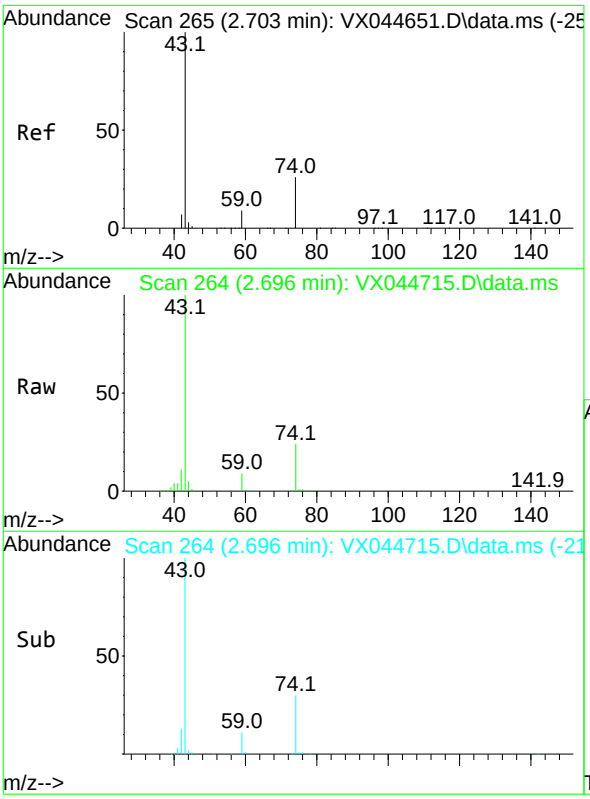
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.1 | 10.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

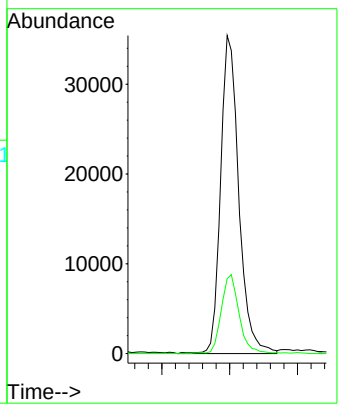
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

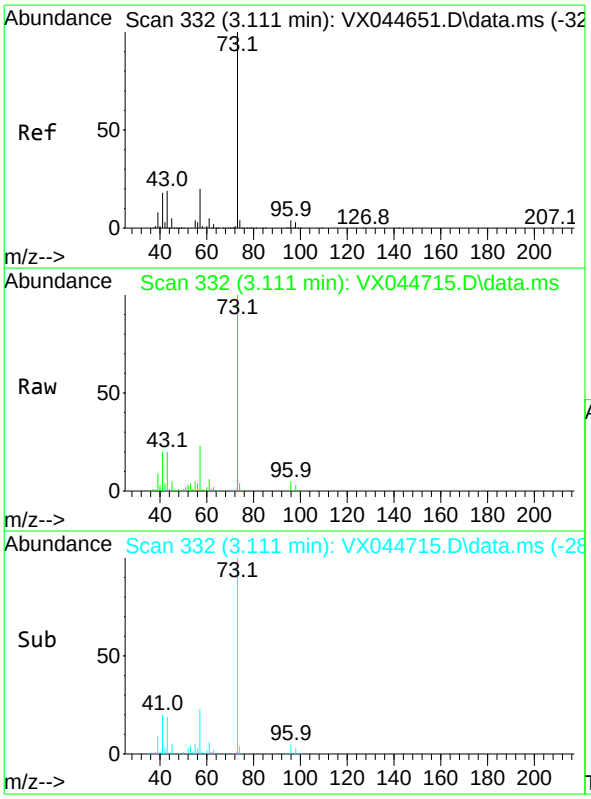



#18
Methyl Acetate
Concen: 19.791 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 66037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.4 | 19.8 | 29.8 |






#19
Methyl tert-butyl Ether
Concen: 18.047 ug/l
RT: 3.111 min Scan# 33
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 73 Resp: 138618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.9 | 17.4 | 26.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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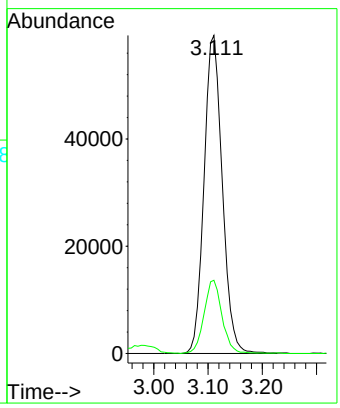
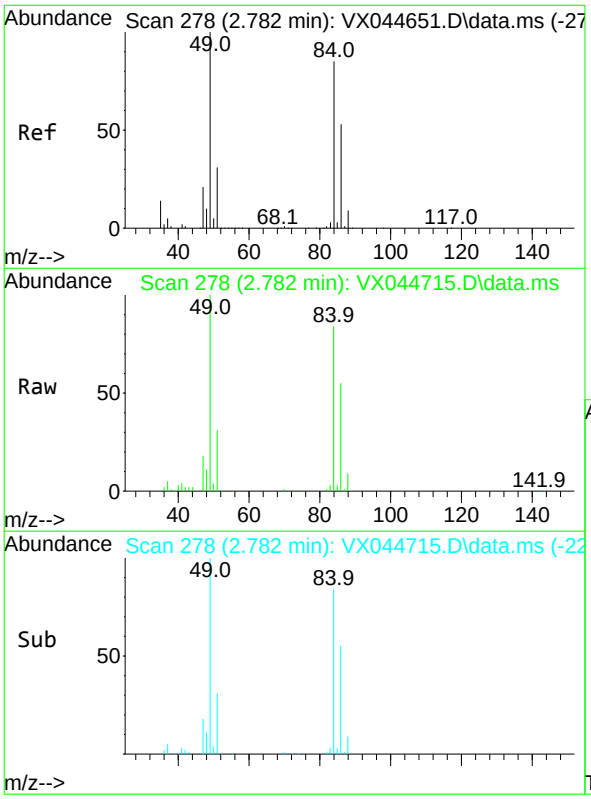
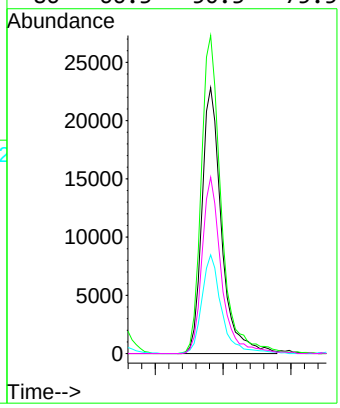


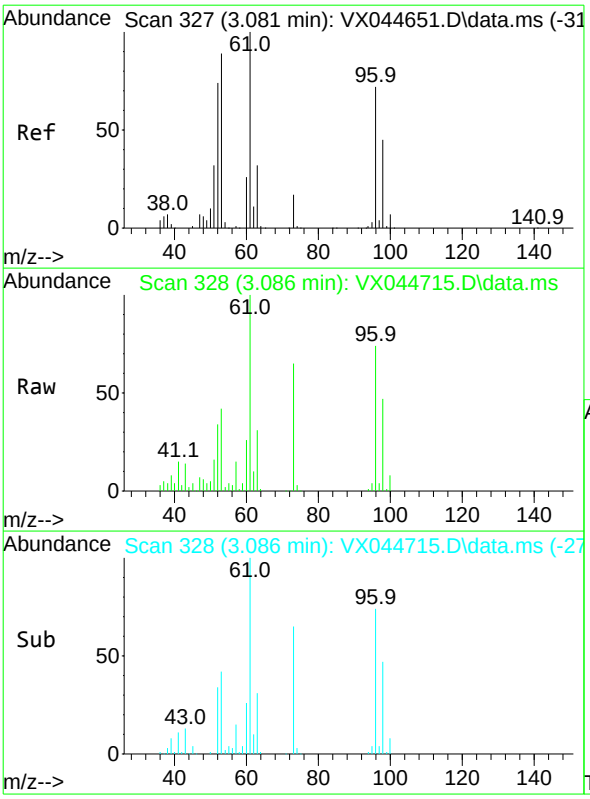




#20
Methylene Chloride
Concen: 18.162 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 84 Resp: 45743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.6 | 94.2 | 141.4 |
| 51 | 37.1 | 28.8 | 43.2 |
| 86 | 66.3 | 50.3 | 75.5 |

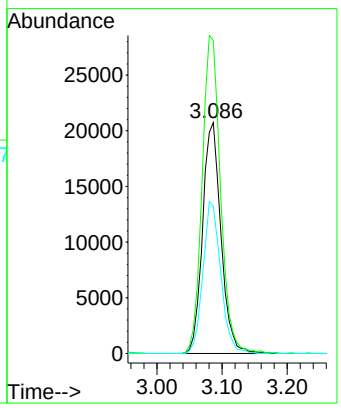





#21
trans-1,2-Dichloroethene
Concen: 18.364 ug/l
RT: 3.086 min Scan# 32
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 96 Resp: 40658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.6 | 111.0 | 166.6 |
| 98 | 63.8 | 50.2 | 75.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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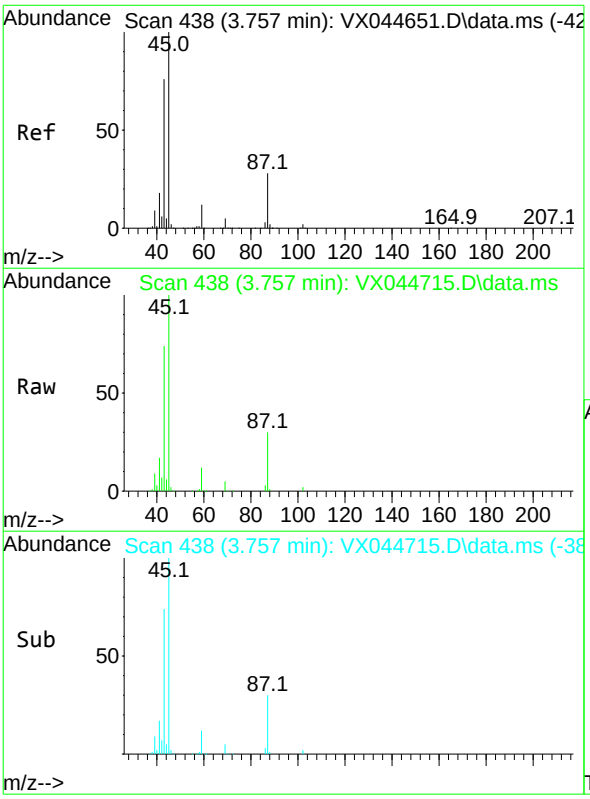
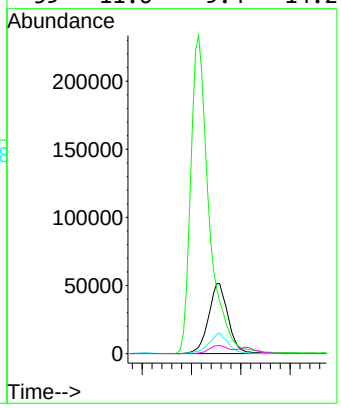
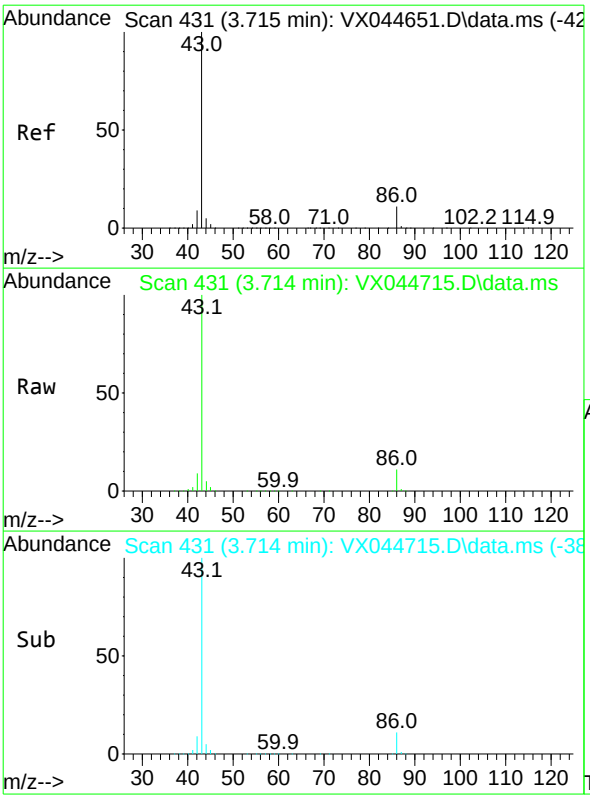



#22
Diisopropyl ether
Concen: 19.734 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 45 Resp: 141633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 73.2 | 61.0 | 91.6 |
| 87 | 29.6 | 22.7 | 34.1 |
| 59 | 11.6 | 9.4 | 14.2 |






#23
Vinyl Acetate
Concen: 95.967 ug/l
RT: 3.714 min Scan# 43
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 602846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.7 | 8.9 | 13.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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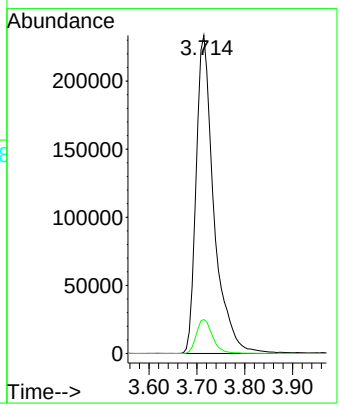
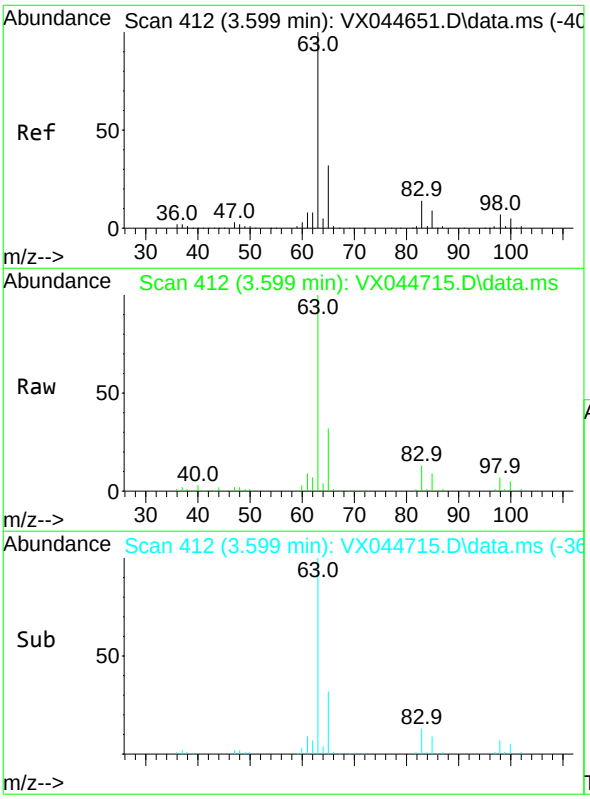
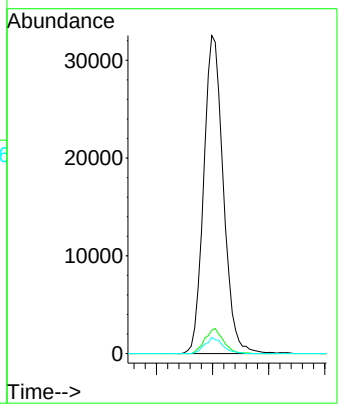


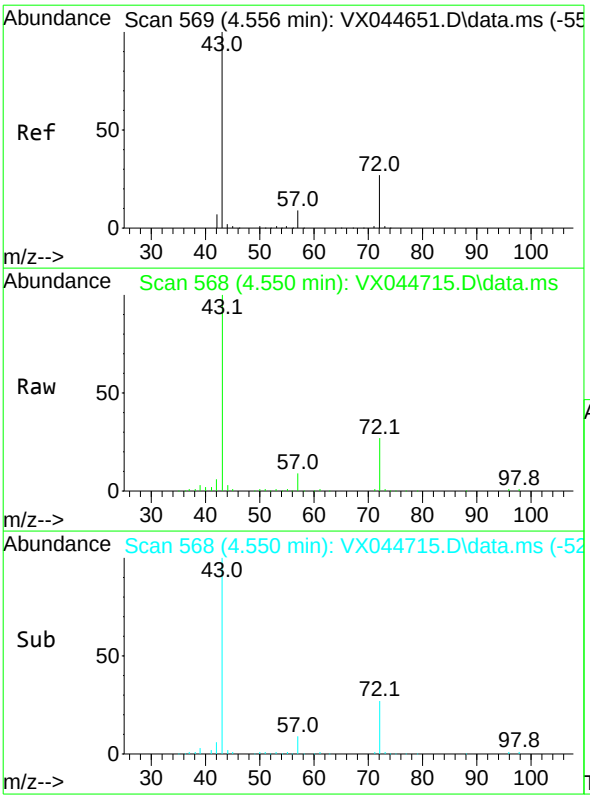




#24
1,1-Dichloroethane
Concen: 18.558 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 63 Resp: 78982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.3 | 3.6 | 10.9 |
| 100 | 5.1 | 2.5 | 7.5 |






#25
2-Butanone
Concen: 98.011 ug/l
RT: 4.550 min Scan# 56
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 157607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.4 | 21.7 | 32.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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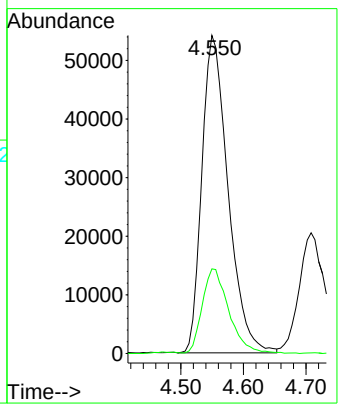
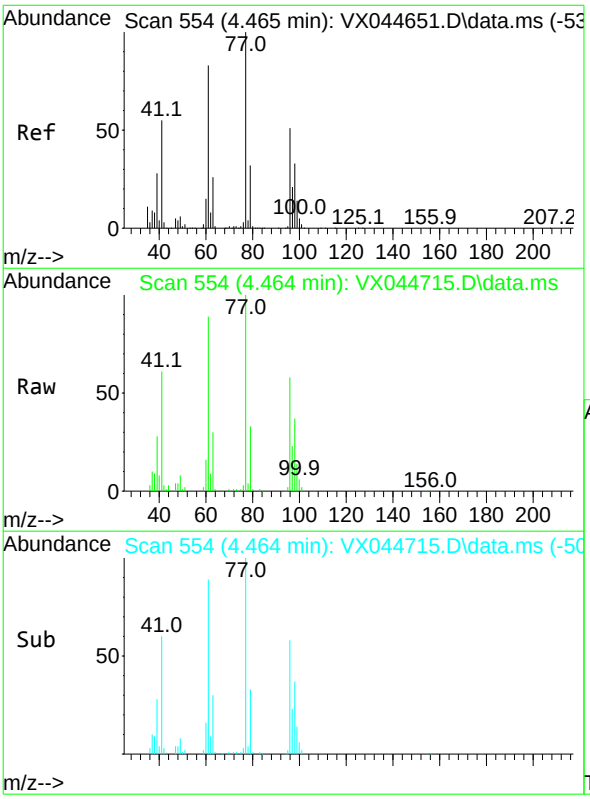
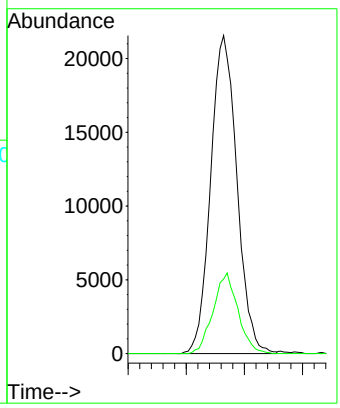


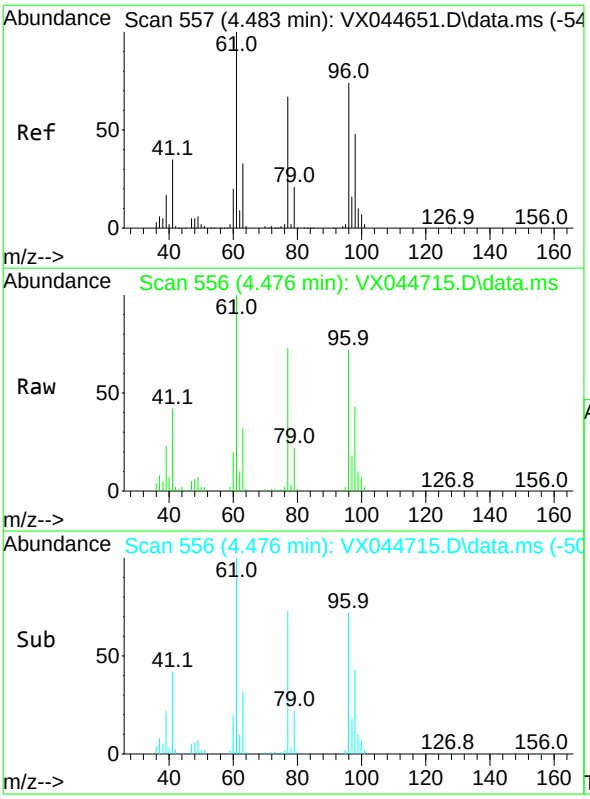




#26
2,2-Dichloropropane
Concen: 16.394 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 77 Resp: 67624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.0 | 10.9 | 32.6 |

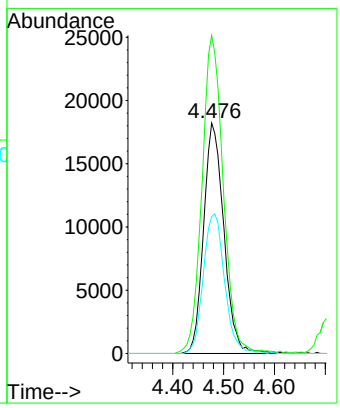





#27
cis-1,2-Dichloroethene
Concen: 18.038 ug/l
RT: 4.476 min Scan# 55
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 96 Resp: 50234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.6 | 0.0 | 296.0 |
| 98 | 64.0 | 0.0 | 130.0 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

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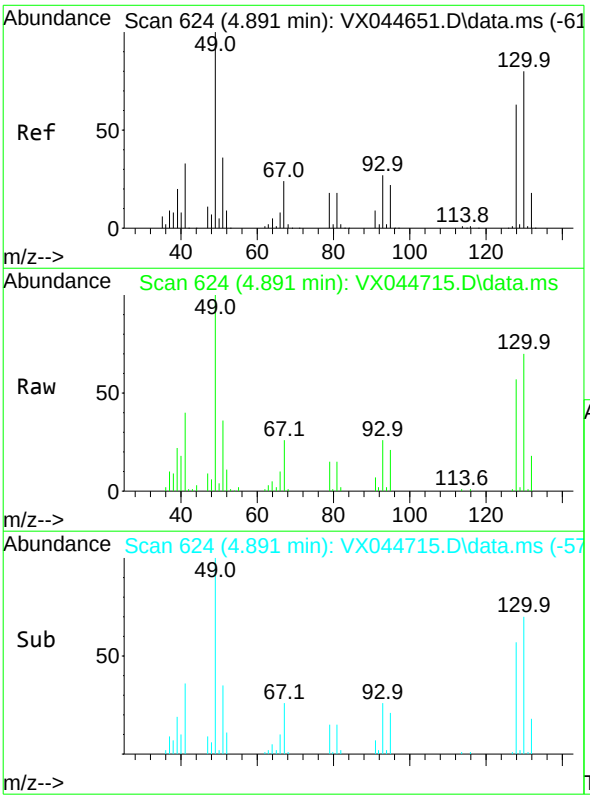
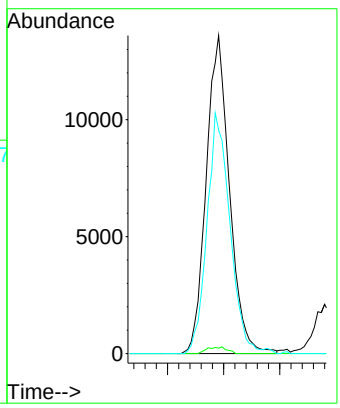
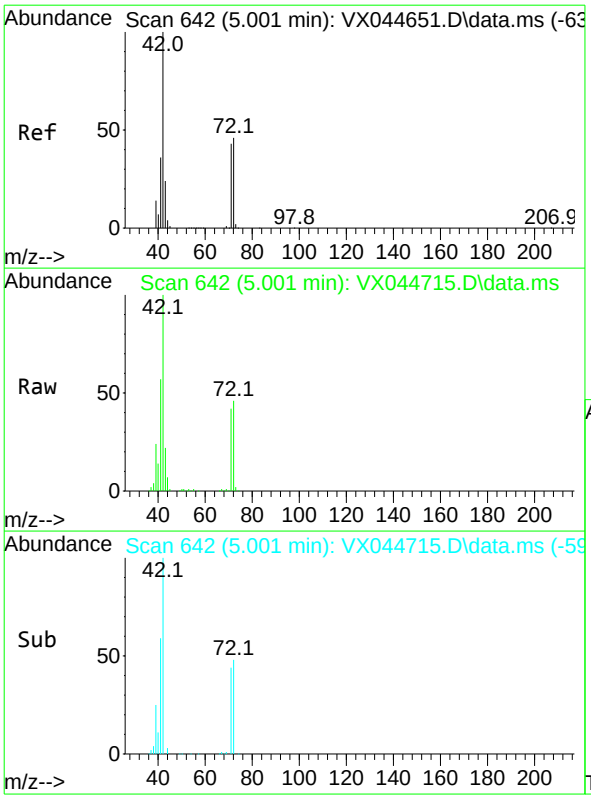



#28
Bromochloromethane
Concen: 19.697 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 49 Resp: 39174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.4 |
| 130 | 74.4 | 63.4 | 95.2 |






#29
Tetrahydrofuran
Concen: 98.627 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 42 Resp: 102301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.8 | 38.2 | 57.4 |
| 71 | 42.5 | 35.3 | 52.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
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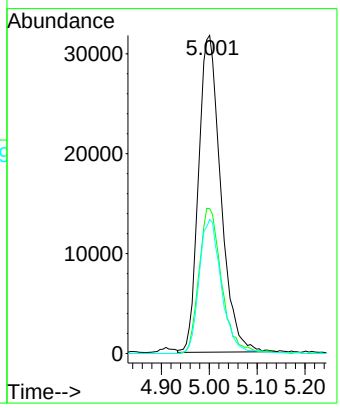
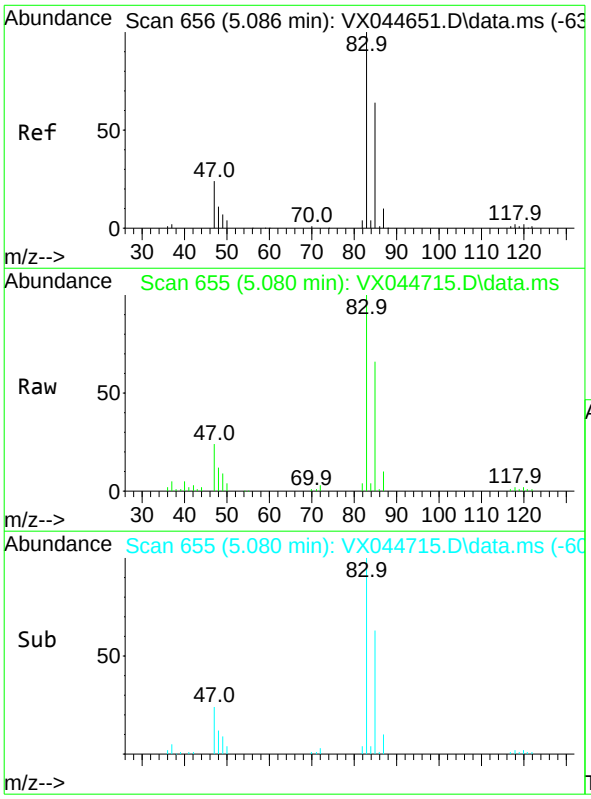
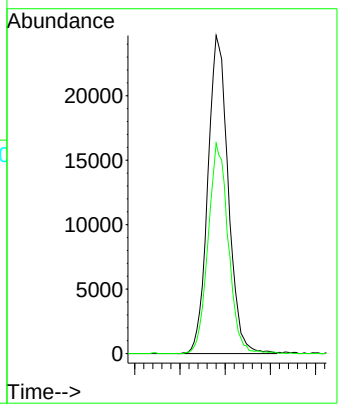


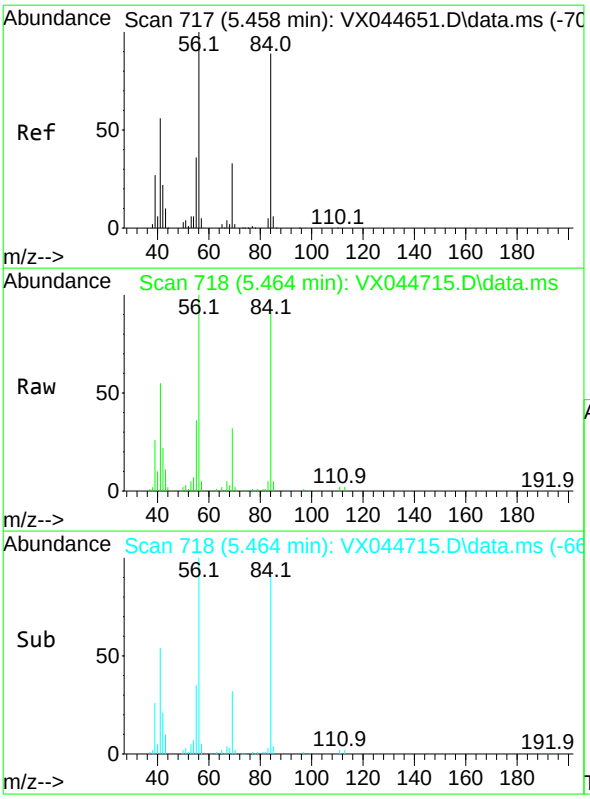




#30
Chloroform
Concen: 17.964 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 83 Resp: 77159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.1 | 51.2 | 76.8 |






#31
Cyclohexane
Concen: 20.706 ug/l
RT: 5.464 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 56 Resp: 71276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.4 | 26.8 | 40.2 |
| 84 | 89.1 | 71.0 | 106.4 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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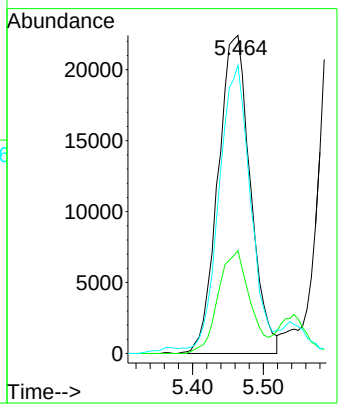
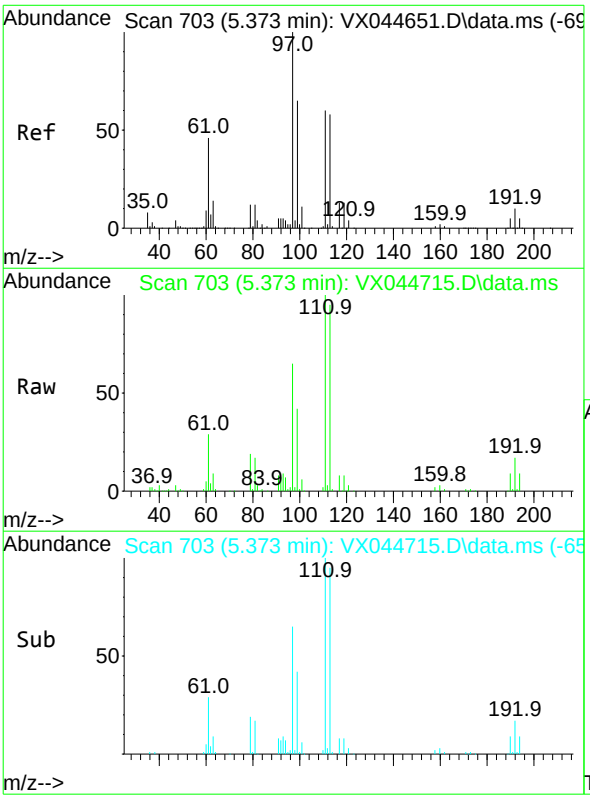
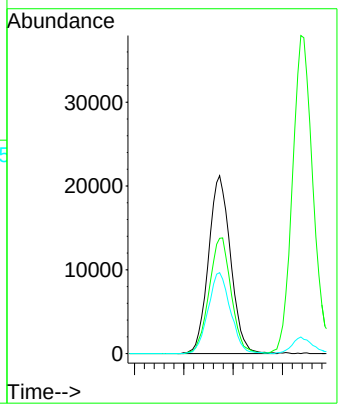


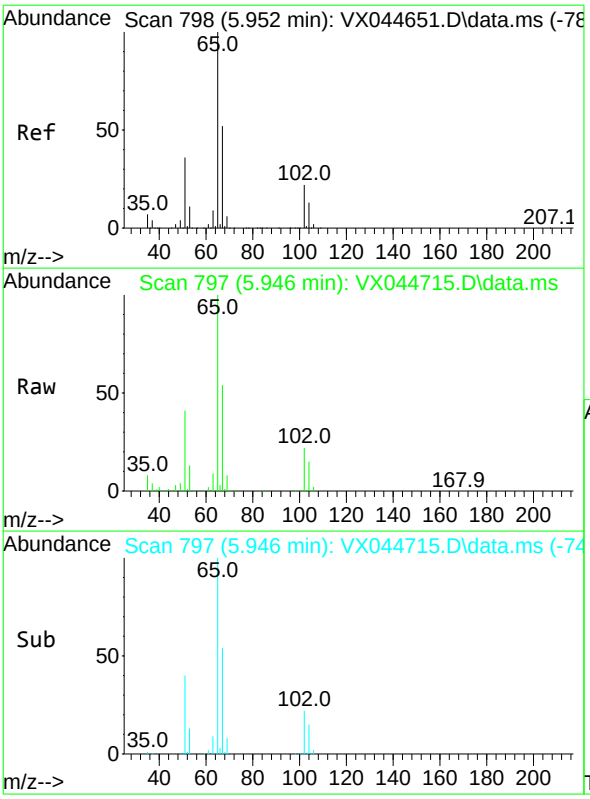




#32
1,1,1-Trichloroethane
Concen: 16.710 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 97 Resp: 65982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.0 | 51.6 | 77.4 |
| 61 | 46.1 | 35.6 | 53.4 |

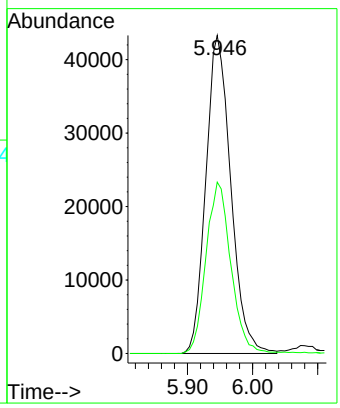





#33
1,2-Dichloroethane-d4
Concen: 42.108 ug/l
RT: 5.946 min Scan# 79
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 65 Resp: 115109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 103.4 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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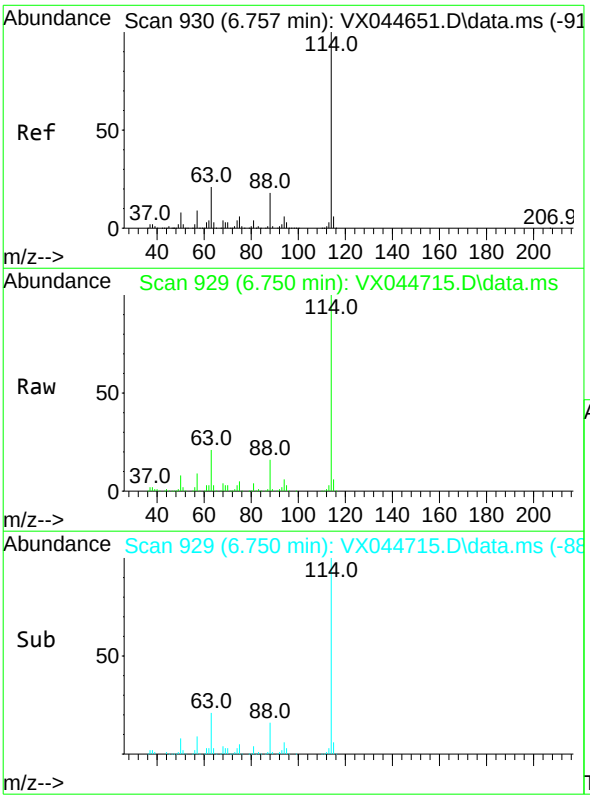
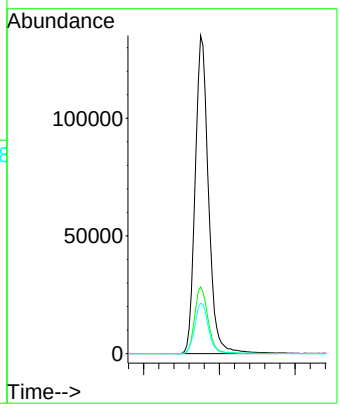
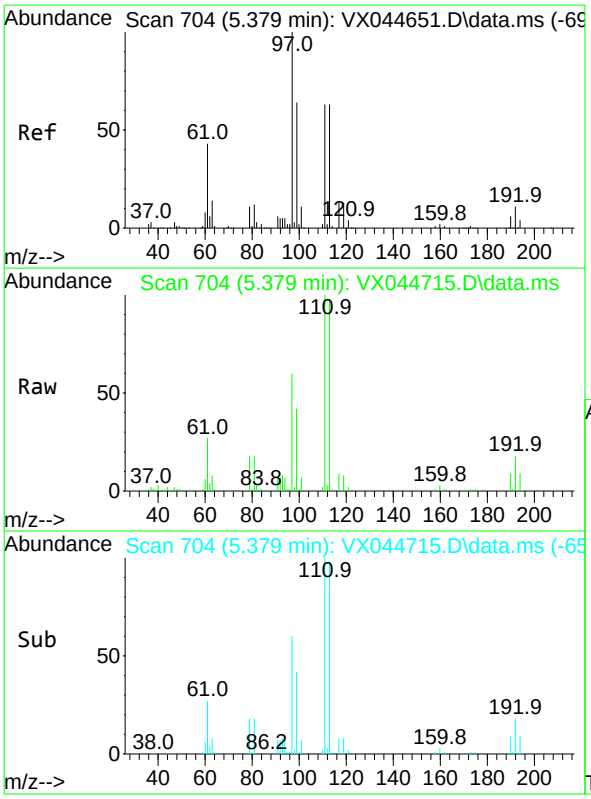



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.750 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:114 Resp: 329948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 43.0 |
| 88 | 15.8 | 0.0 | 35.4 |

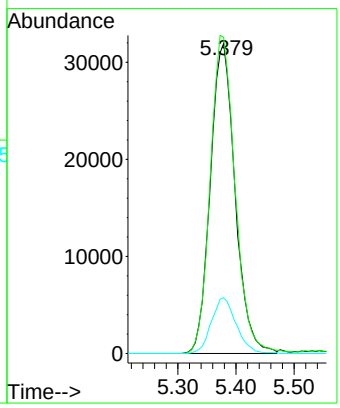





#35
Dibromofluoromethane
Concen: 45.125 ug/l
RT: 5.379 min Scan# 70
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:113 Resp: 94586

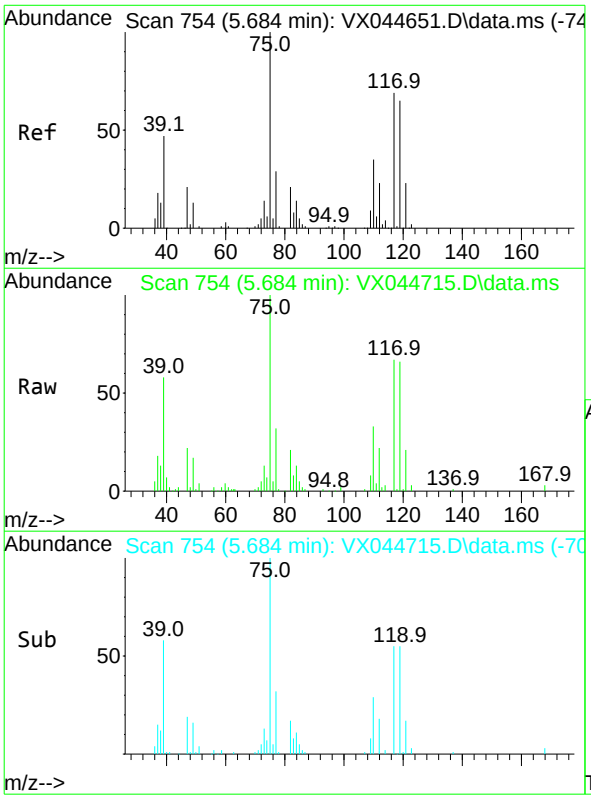
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 81.6 | 122.4 |
| 192 | 18.1 | 14.4 | 21.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

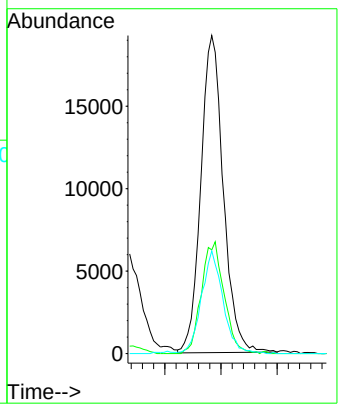
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

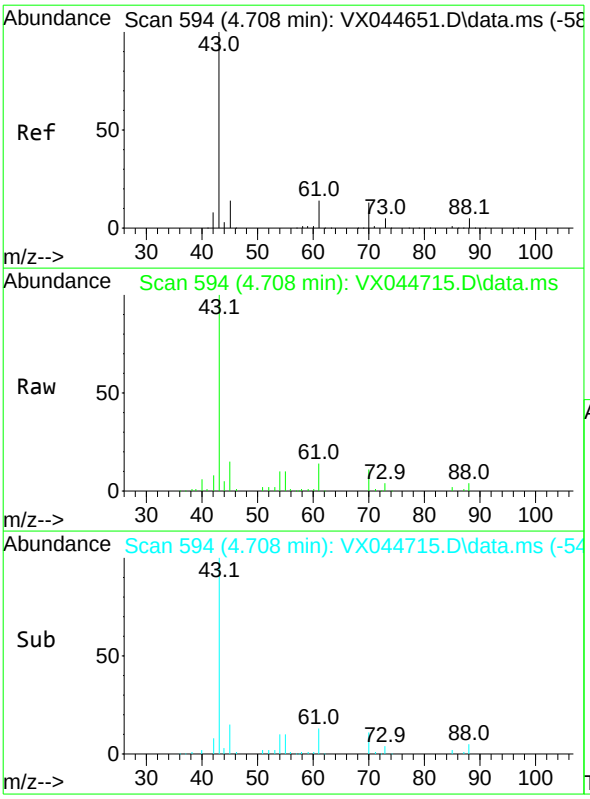



#36
1,1-Dichloropropene
Concen: 18.373 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 75 Resp: 53609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.5 | 17.9 | 53.8 |
| 77 | 31.1 | 24.5 | 36.7 |






#37
Ethyl Acetate
Concen: 19.668 ug/l
RT: 4.708 min Scan# 59
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

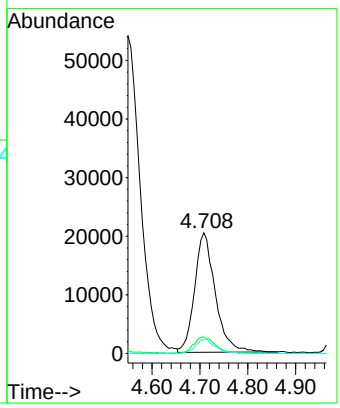
Tgt Ion: 43 Resp: 61115

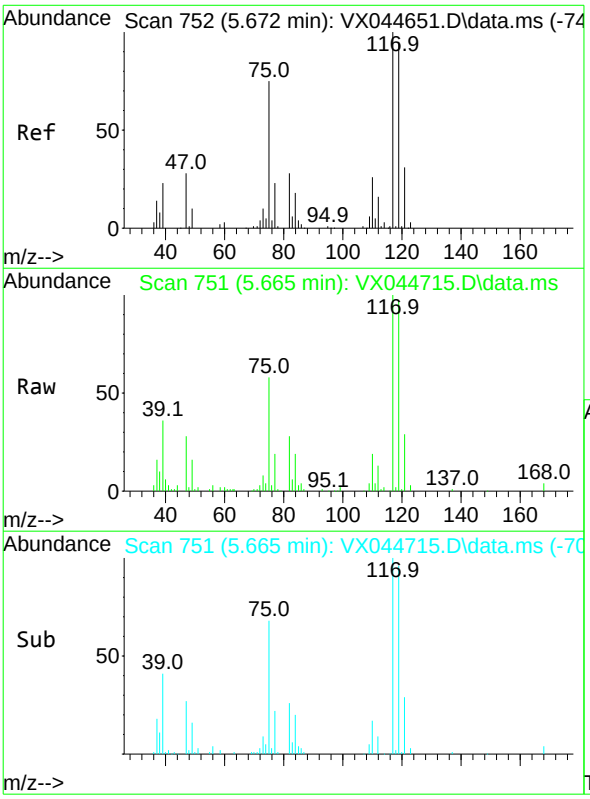
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.9 | 10.9 | 16.3 |
| 70 | 11.4 | 10.1 | 15.1 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

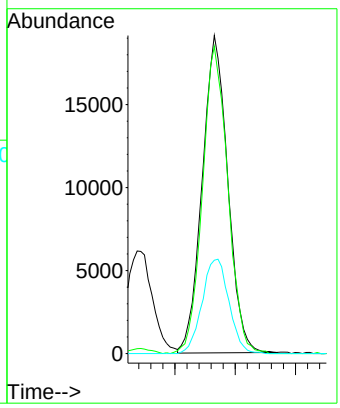


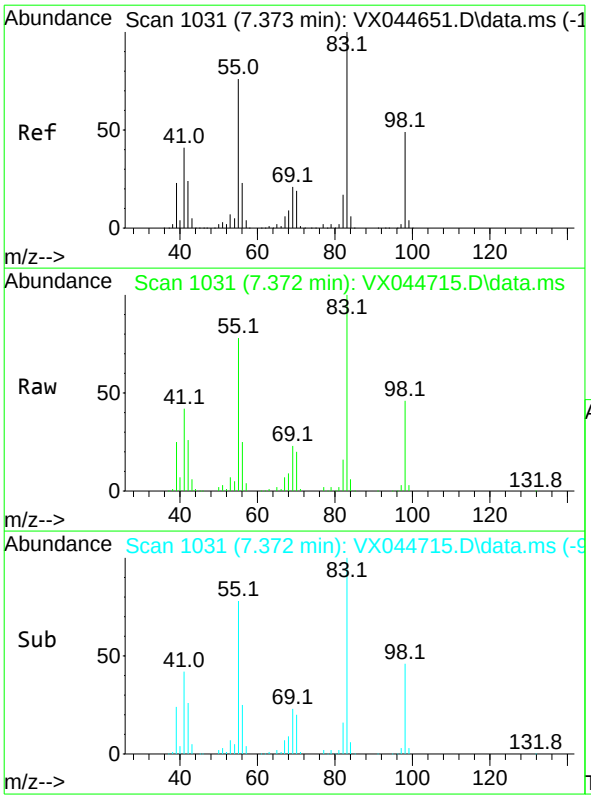




#38
Carbon Tetrachloride
Concen: 17.165 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:117 Resp: 56337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.9 | 76.0 | 114.0 |
| 121 | 29.5 | 24.6 | 36.8 |






#39
Methylcyclohexane
Concen: 19.415 ug/l
RT: 7.372 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

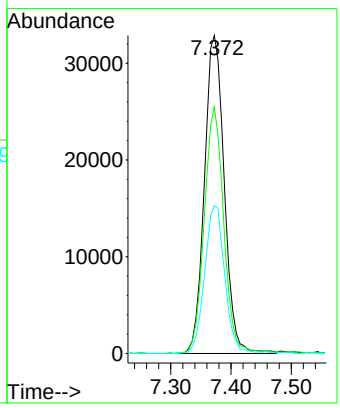
**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

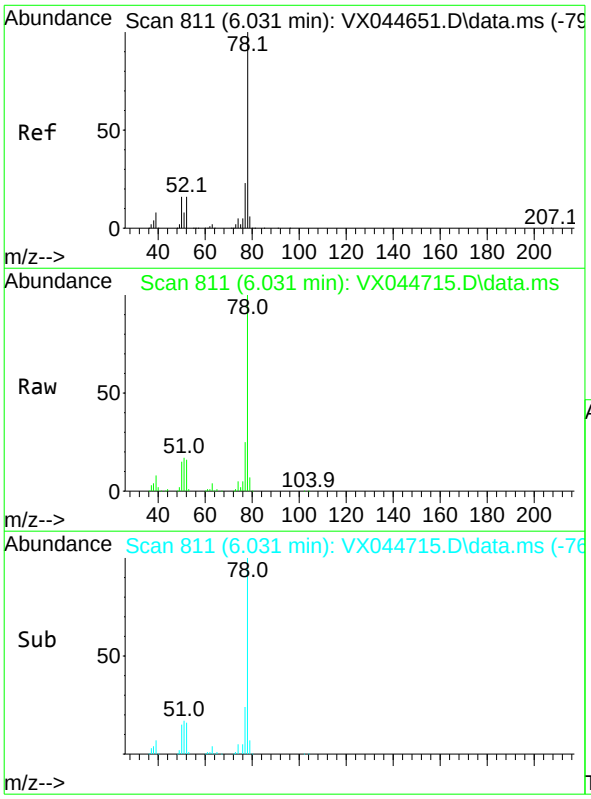
Tgt Ion: 83 Resp: 75204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.3 | 60.5 | 90.7 |
| 98 | 46.5 | 39.0 | 58.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

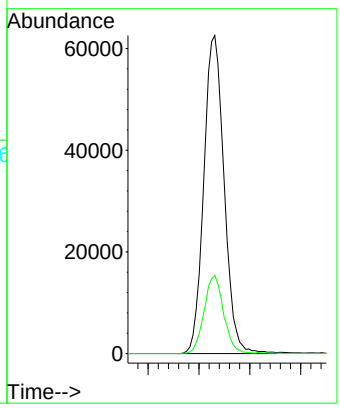


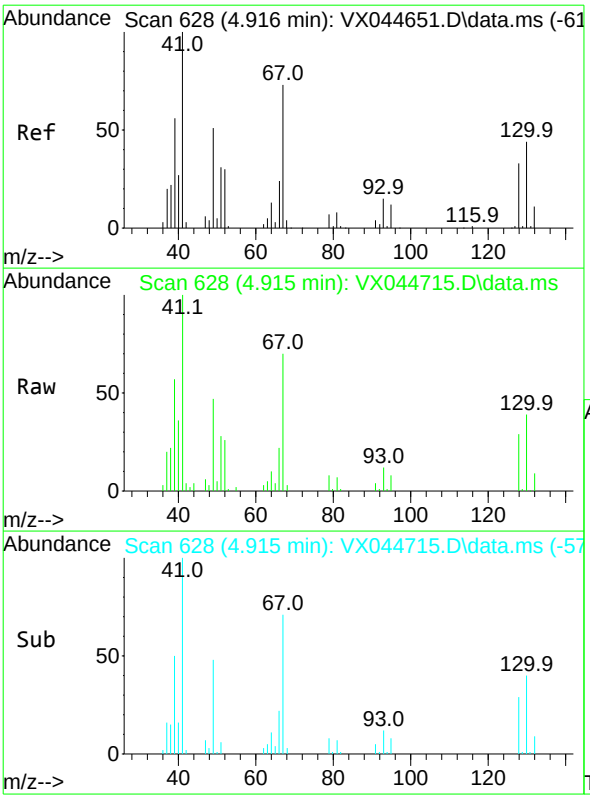




#40
Benzene
Concen: 19.166 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 78 Resp: 173290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.6 | 18.7 | 28.1 |






#41
Methacrylonitrile
Concen: 19.259 ug/l
RT: 4.915 min Scan# 62
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

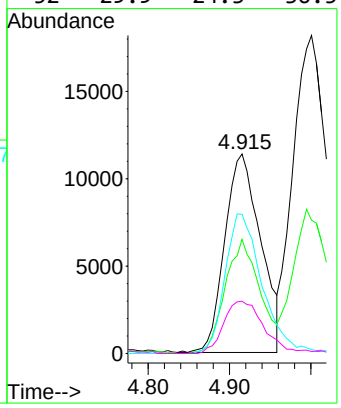
**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

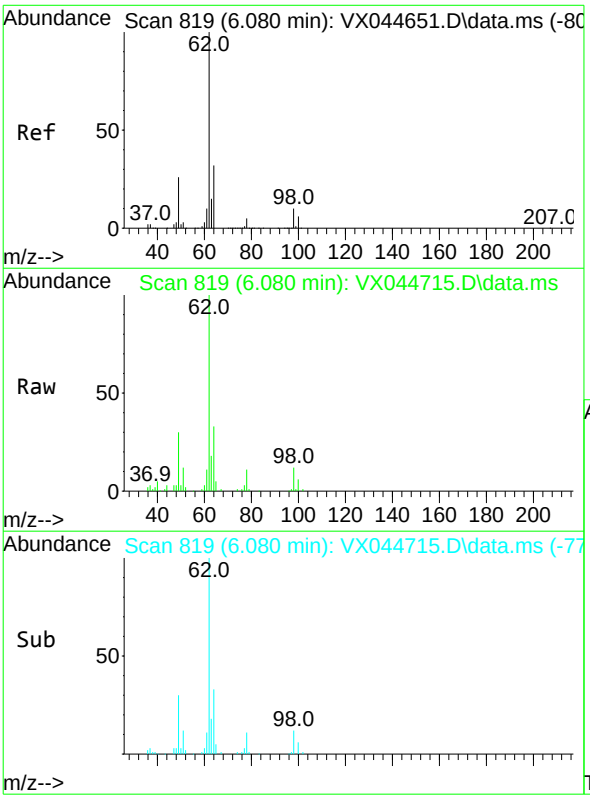
Tgt Ion: 41 Resp: 34872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.7 | 44.4 | 66.6 |
| 67 | 72.3 | 60.6 | 90.8 |
| 52 | 29.9 | 24.3 | 36.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

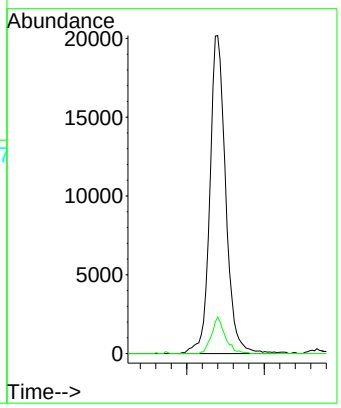


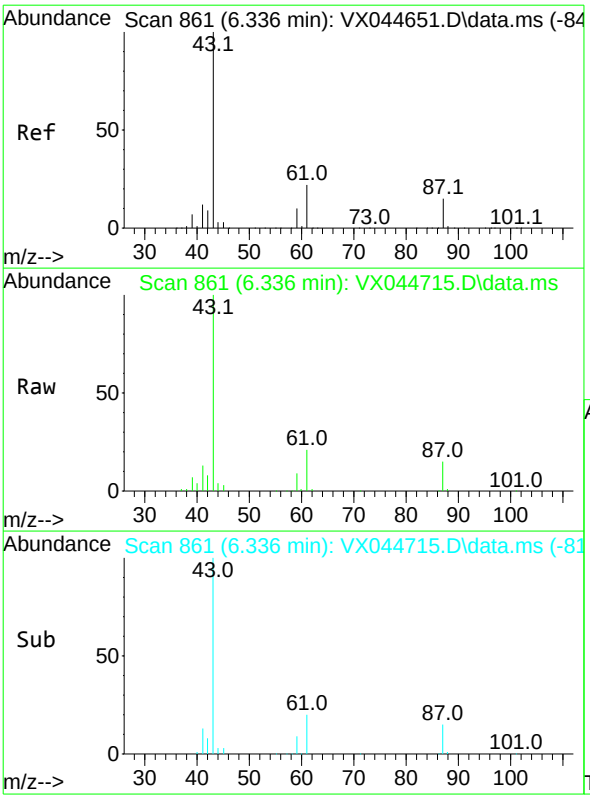




#42
1,2-Dichloroethane
Concen: 17.395 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 62 Resp: 57405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.9 | 0.0 | 19.4 |

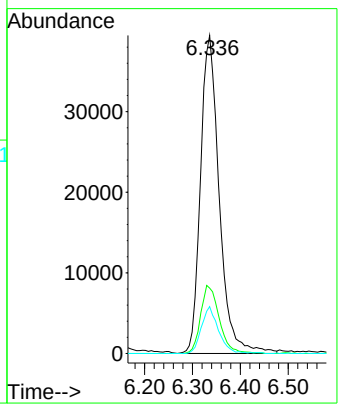





#43
Isopropyl Acetate
Concen: 18.779 ug/l
RT: 6.336 min Scan# 86
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 107342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.3 | 16.6 | 24.8 |
| 87 | 13.3 | 11.0 | 16.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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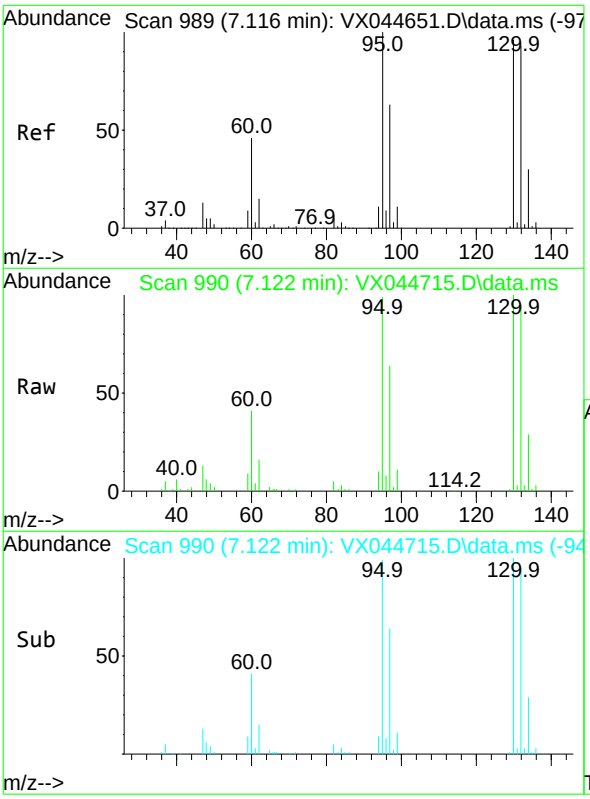
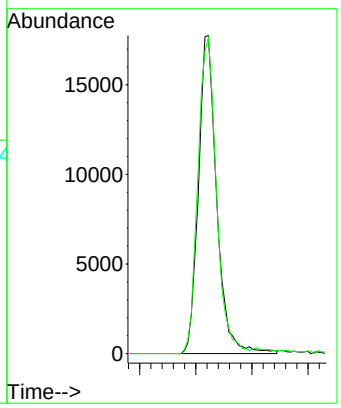
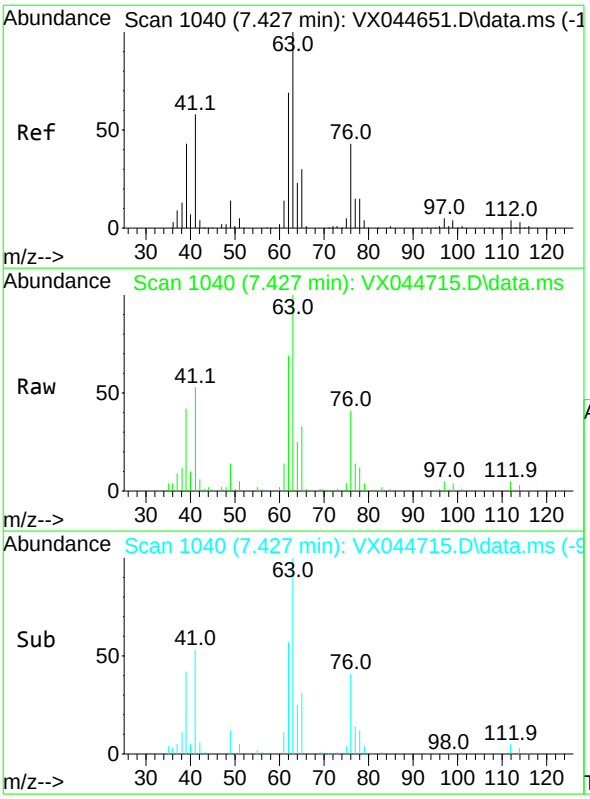



#44
Trichloroethene
Concen: 18.461 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:130 Resp: 40128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.4 | 0.0 | 208.2 |






#45
1,2-Dichloropropane
Concen: 19.056 ug/l
RT: 7.427 min Scan# 10
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 63 Resp: 43371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.6 | 24.2 | 36.2 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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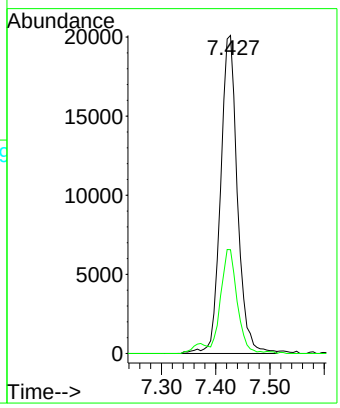
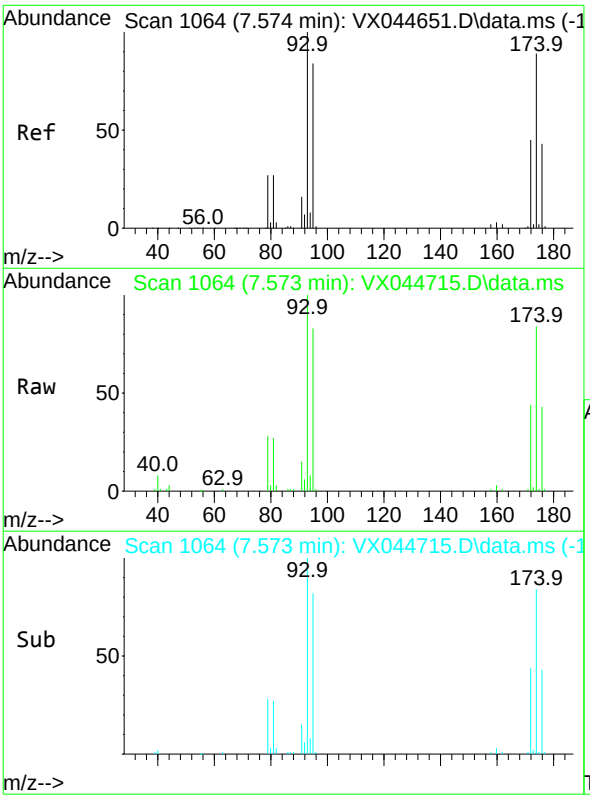
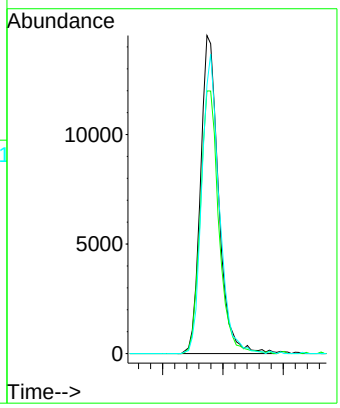


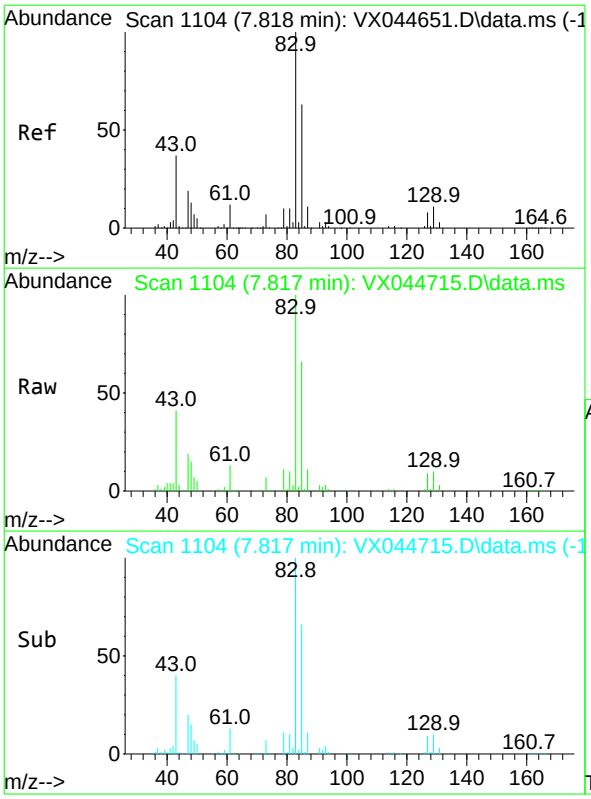




#46
Dibromomethane
Concen: 17.427 ug/l
RT: 7.573 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 93 Resp: 30193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.6 | 66.4 | 99.6 |
| 174 | 90.9 | 72.0 | 108.0 |

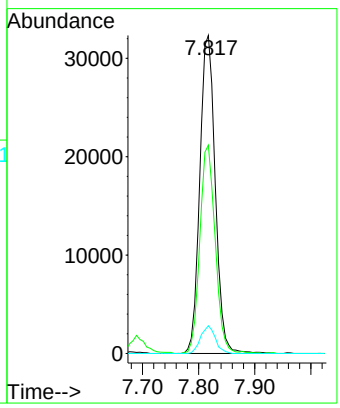





#47
Bromodichloromethane
Concen: 17.405 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 83 Resp: 61842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.5 | 50.1 | 75.1 |
| 127 | 8.7 | 6.5 | 9.7 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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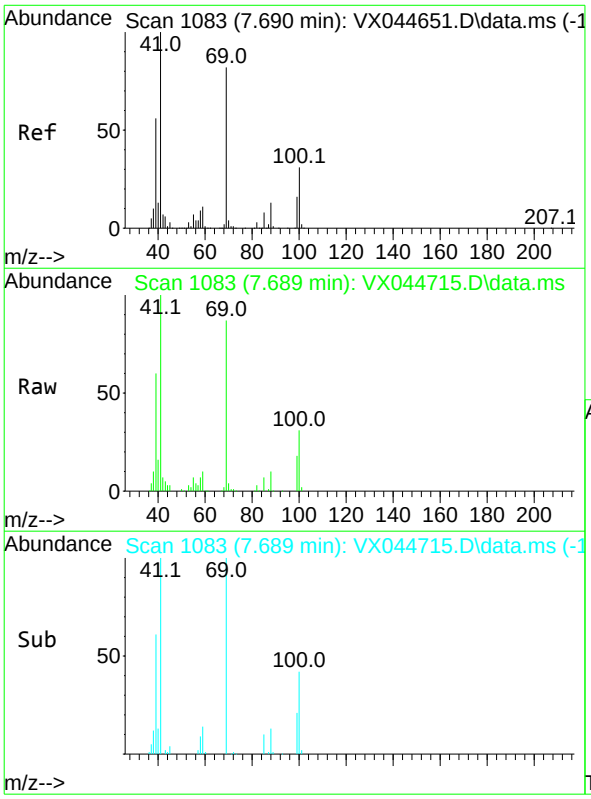
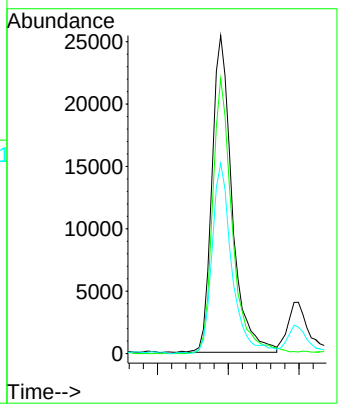
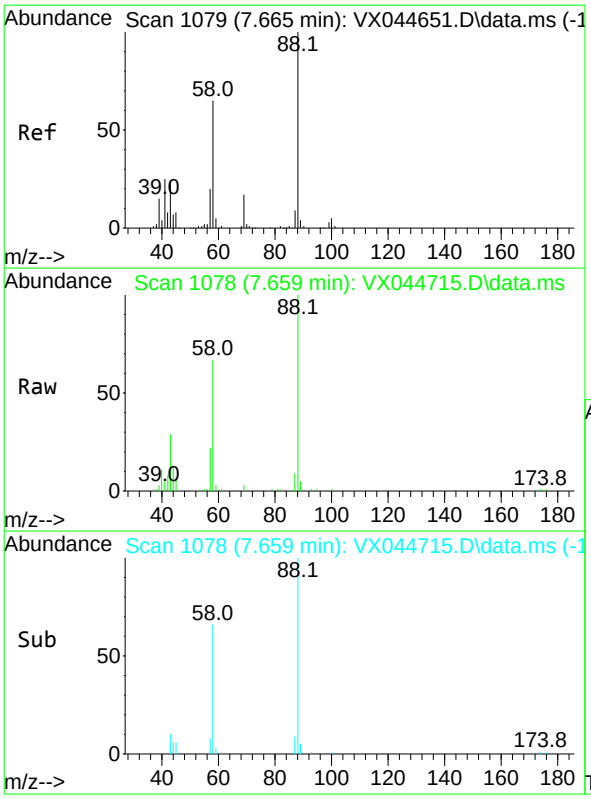



#48
Methyl methacrylate
Concen: 18.924 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 41 Resp: 50212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.8 | 66.8 | 100.2 |
| 39 | 59.1 | 47.4 | 71.0 |






#49
1,4-Dioxane
Concen: 379.274 ug/l
RT: 7.659 min Scan# 10
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 88 Resp: 20996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.5 | 27.0 | 40.4 |
| 58 | 74.0 | 55.8 | 83.8 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

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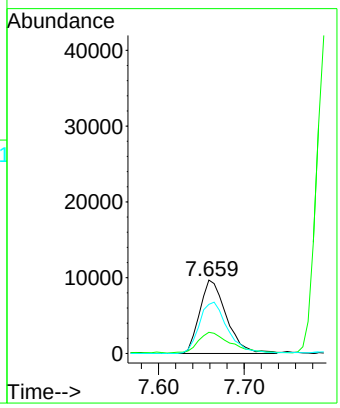
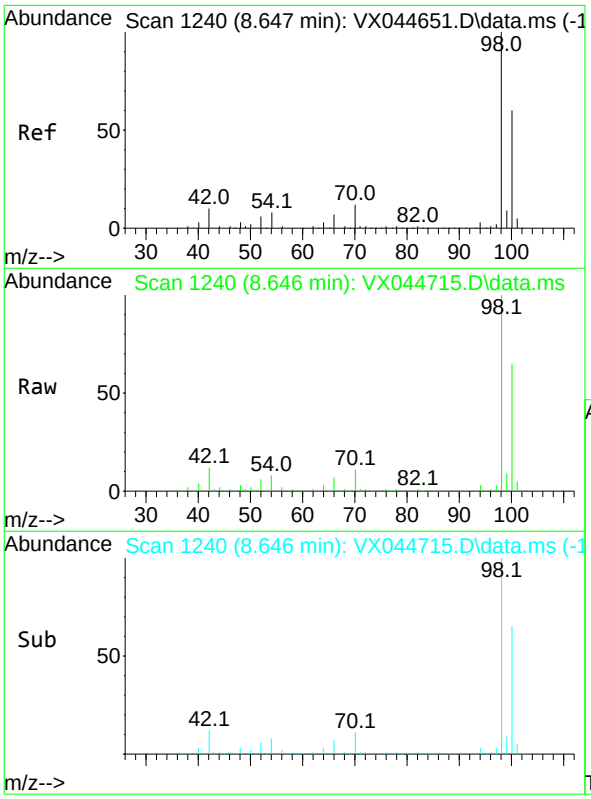
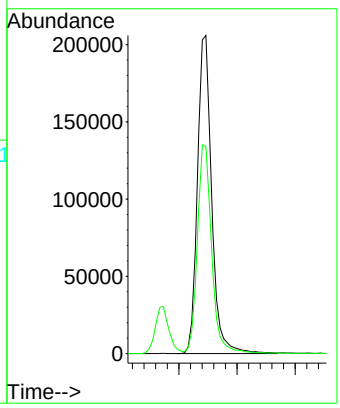


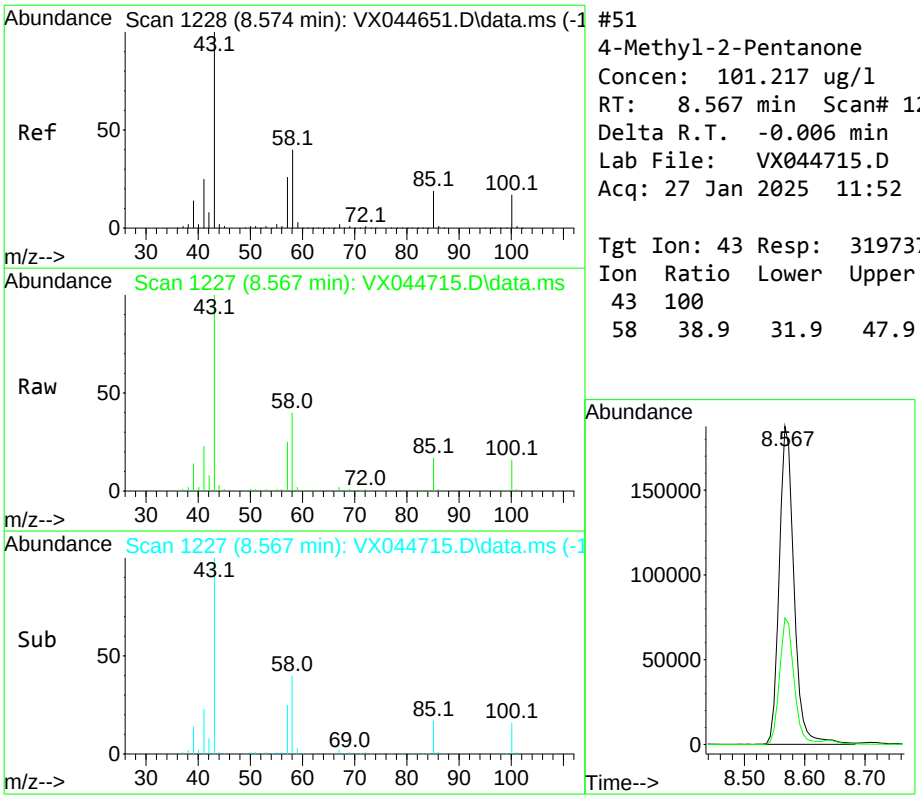




#50
Toluene-d8
Concen: 48.069 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 98 Resp: 351325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 53.2 | 79.8 |






#51
4-Methyl-2-Pentanone
Concen: 101.217 ug/l
RT: 8.567 min Scan# 12
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 319737

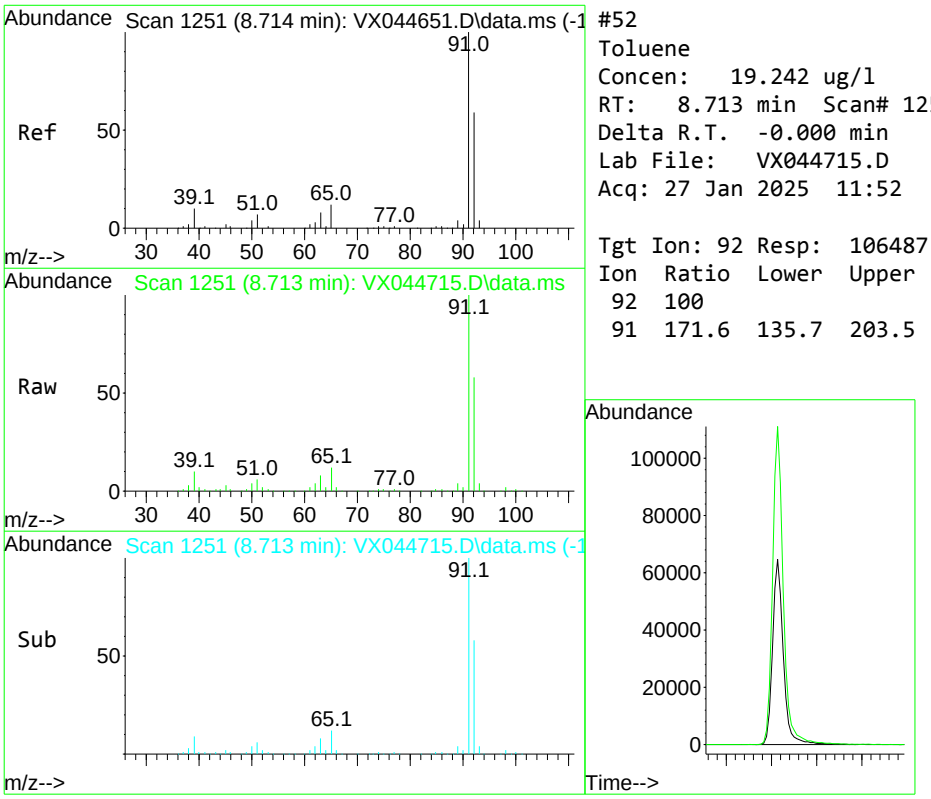
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.9 | 31.9 | 47.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

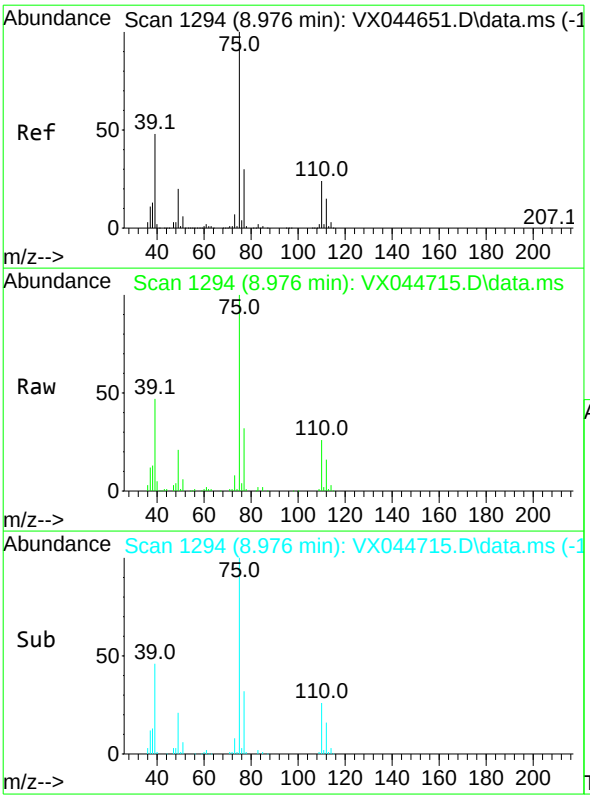



#52
Toluene
Concen: 19.242 ug/l
RT: 8.713 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 92 Resp: 106487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 135.7 | 203.5 |




#53
t-1,3-Dichloropropene
Concen: 17.958 ug/l
RT: 8.976 min Scan# 12
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

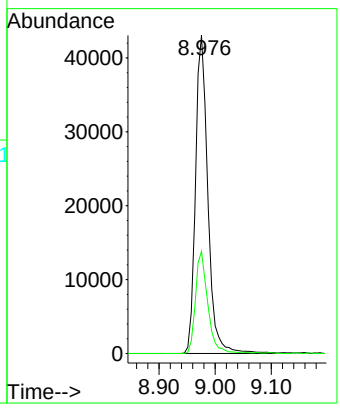
Tgt Ion: 75 Resp: 65922

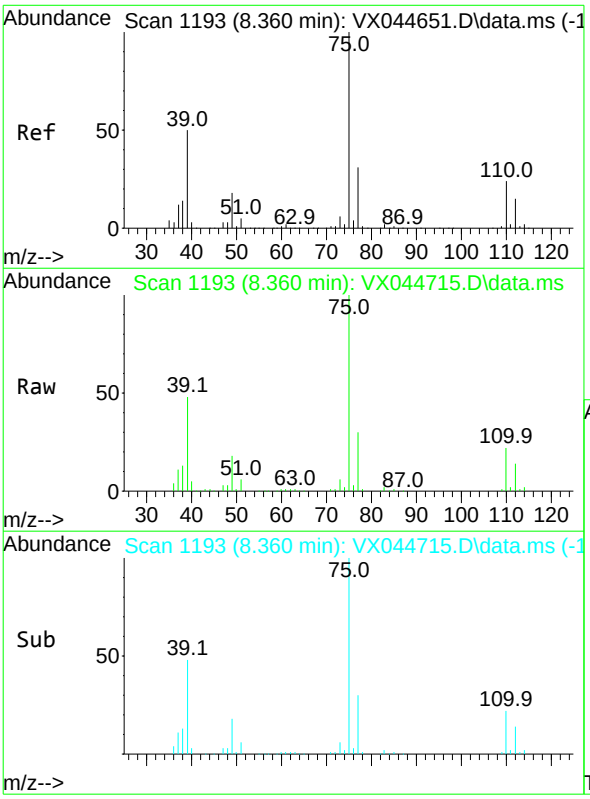
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 24.4 | 36.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

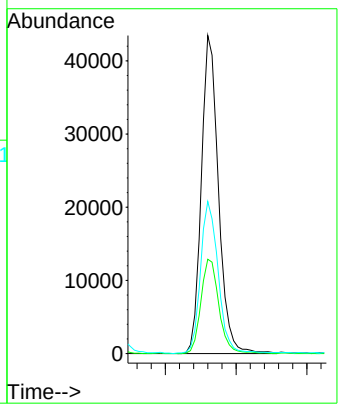


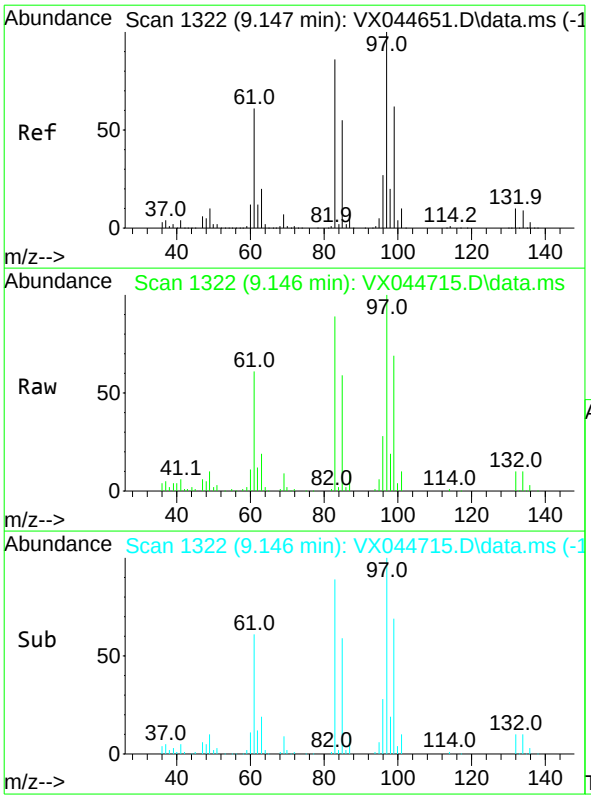




#54
cis-1,3-Dichloropropene
Concen: 18.406 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 75 Resp: 73264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.7 | 25.1 | 37.7 |
| 39 | 47.6 | 40.3 | 60.5 |






#55
1,1,2-Trichloroethane
Concen: 18.940 ug/l
RT: 9.146 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

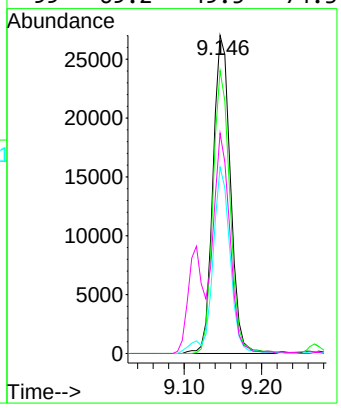
**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

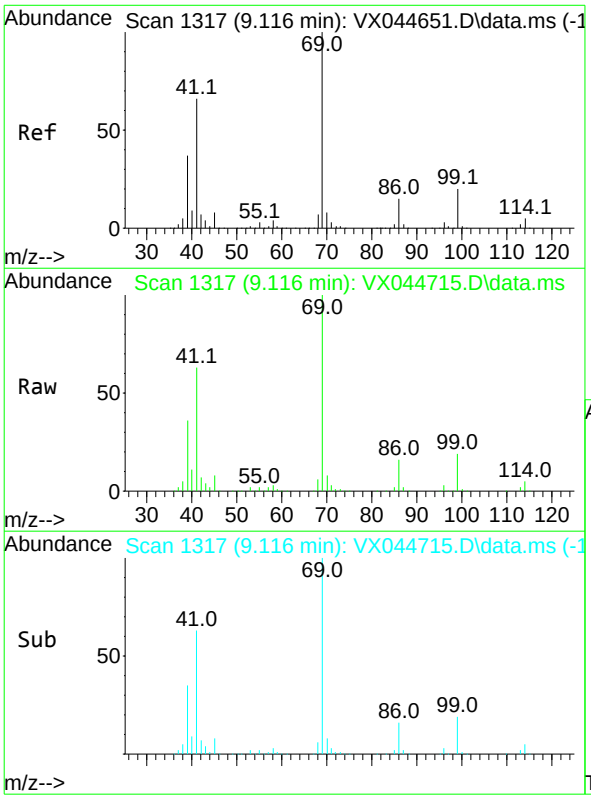
Tgt Ion: 97 Resp: 42407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.0 | 68.8 | 103.2 |
| 85 | 58.7 | 43.7 | 65.5 |
| 99 | 69.2 | 49.5 | 74.3 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

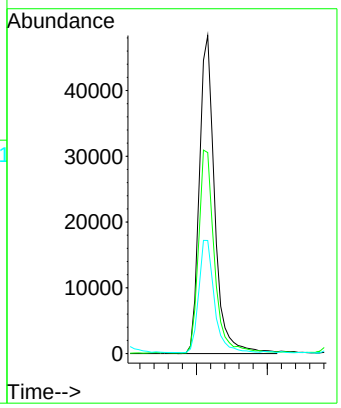


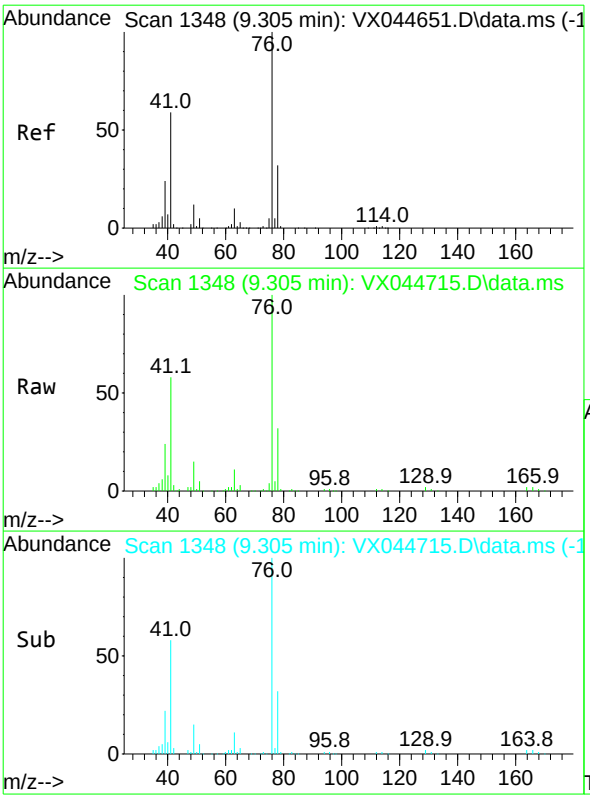




#56
Ethyl methacrylate
Concen: 18.998 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 69 Resp: 73137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.7 | 53.2 | 79.8 |
| 39 | 35.9 | 30.2 | 45.2 |






#57
1,3-Dichloropropane
Concen: 19.201 ug/l
RT: 9.305 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 76 Resp: 73209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 26.0 | 39.0 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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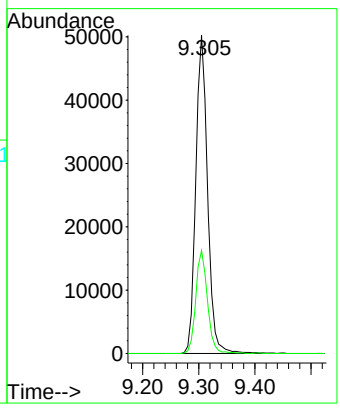
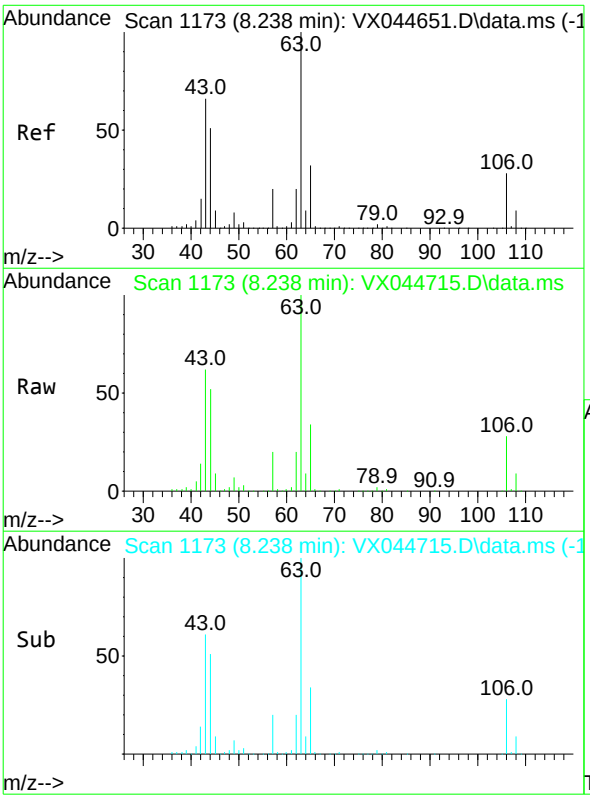
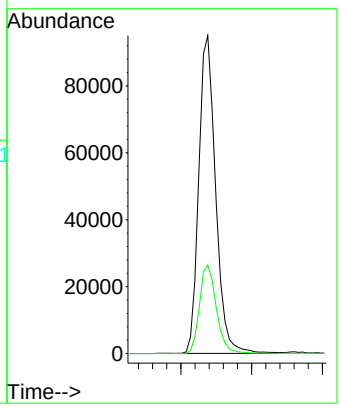


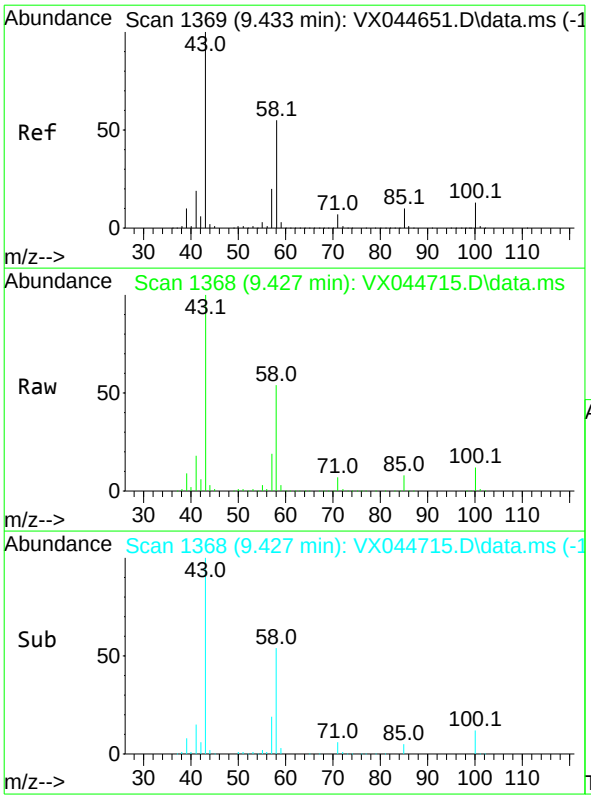




#58
2-Chloroethyl Vinyl ether
Concen: 83.152 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 63 Resp: 157160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.0 | 23.0 | 34.6 |






#59
2-Hexanone
Concen: 99.695 ug/l
RT: 9.427 min Scan# 13
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 231694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.2 | 27.8 | 83.3 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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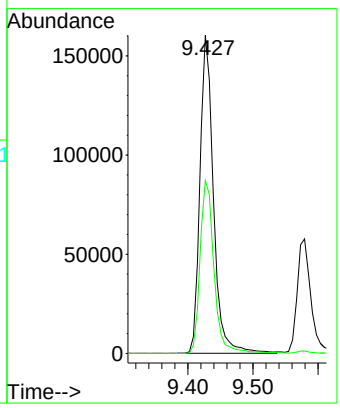
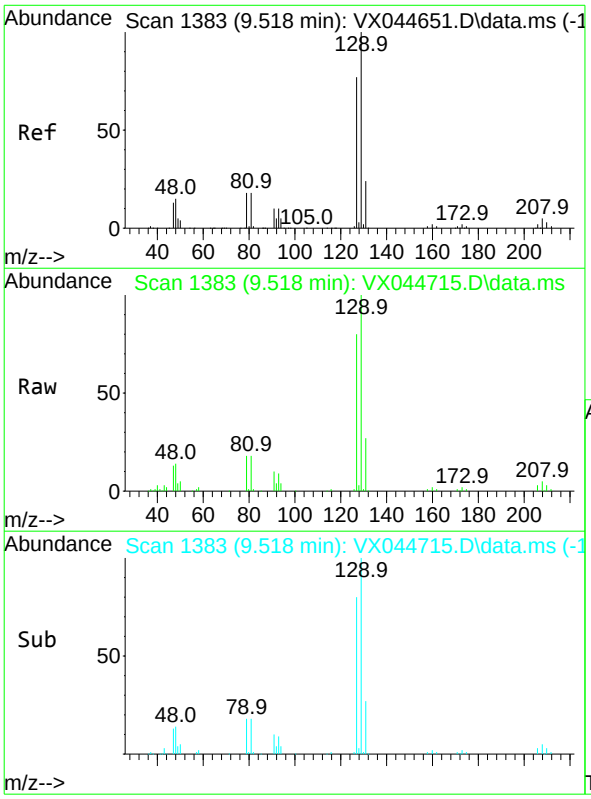
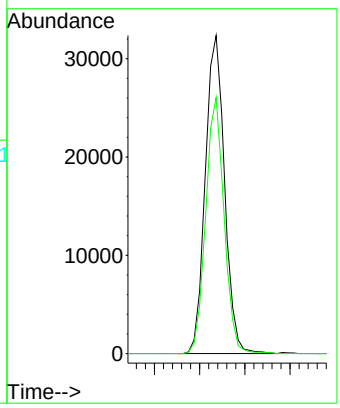


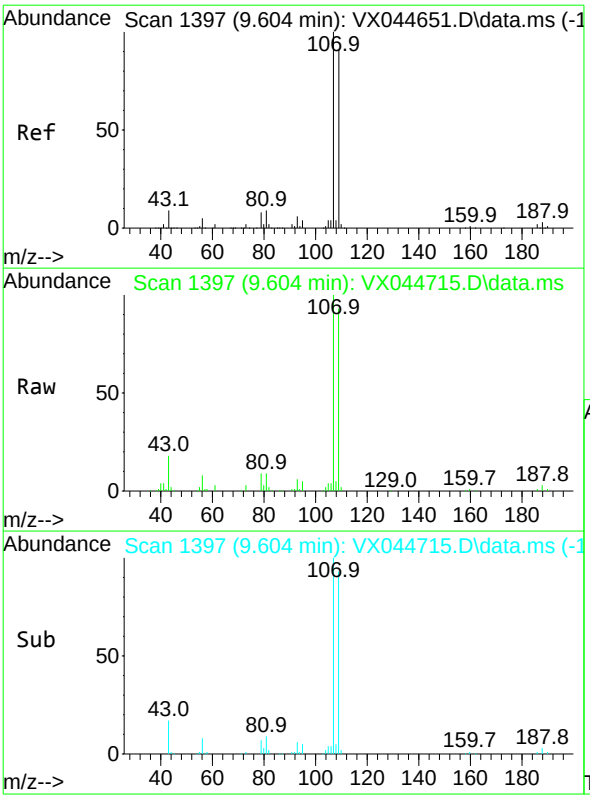




#60
Dibromochloromethane
Concen: 18.246 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:129 Resp: 47950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.9 | 38.5 | 115.5 |






#61
1,2-Dibromoethane
Concen: 18.938 ug/l
RT: 9.604 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:107 Resp: 44437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.8 | 75.3 | 112.9 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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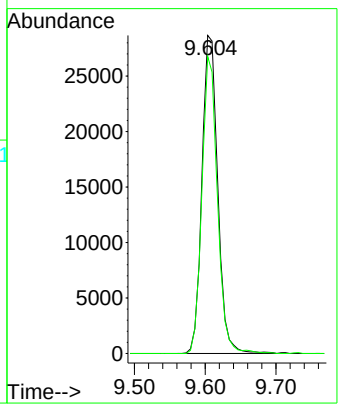
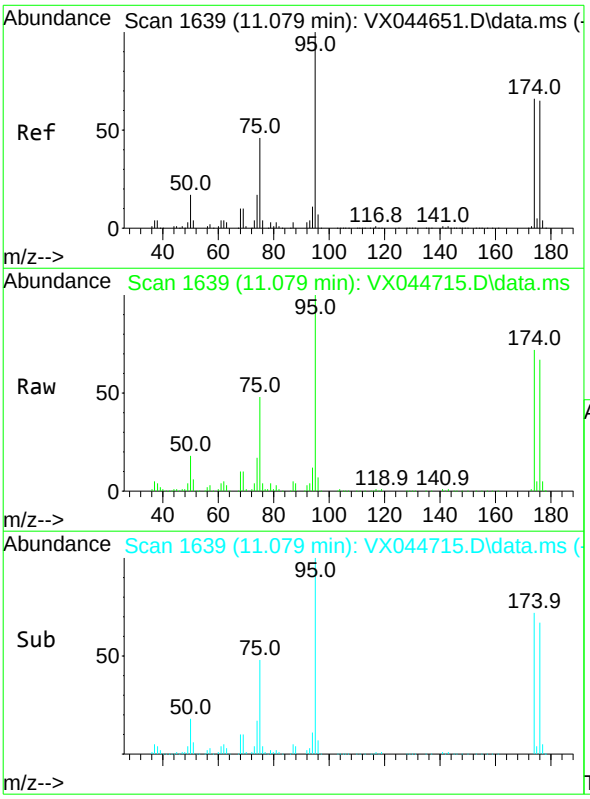
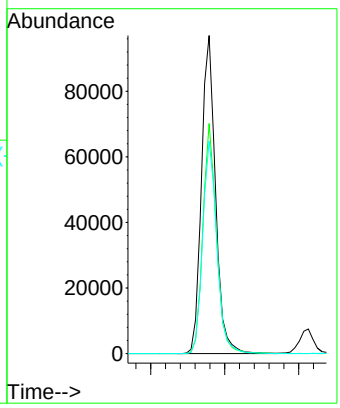


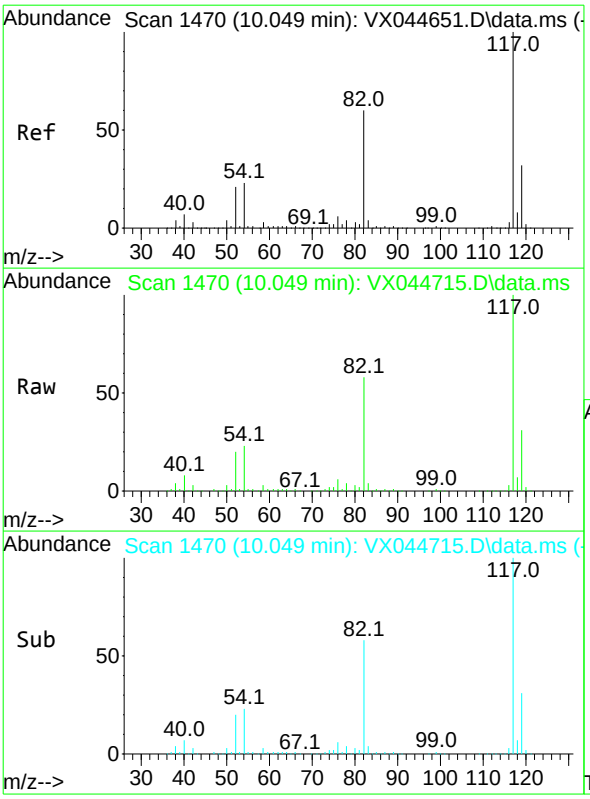




#62
4-Bromofluorobenzene
Concen: 46.926 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 95 Resp: 127855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 69.9 | 0.0 | 133.0 |
| 176 | 67.3 | 0.0 | 129.4 |

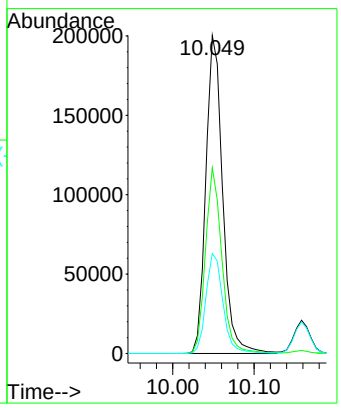





#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:117 Resp: 287428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.4 | 47.6 | 71.4 |
| 119 | 31.4 | 25.4 | 38.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
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Reviewed By :John Carlone 01/28/2025
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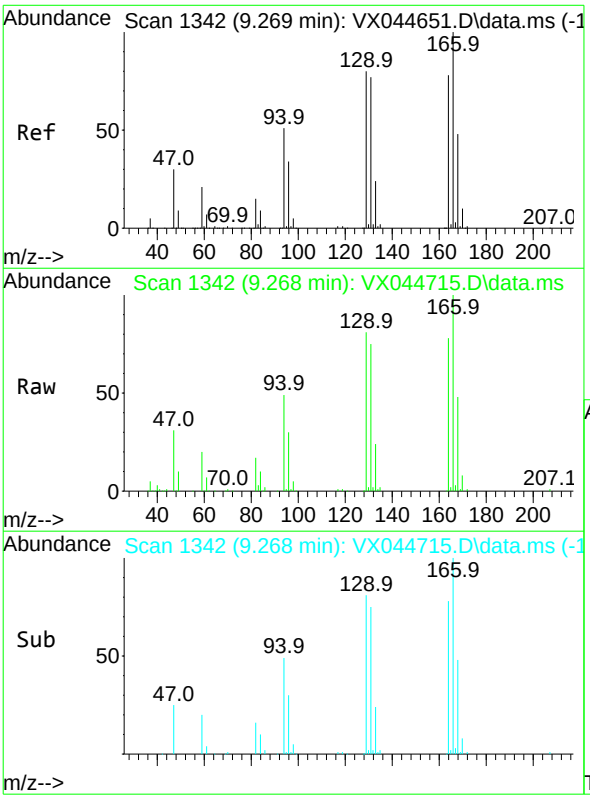
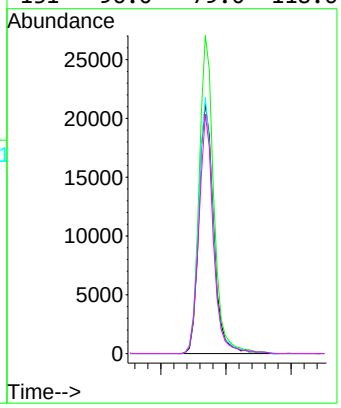
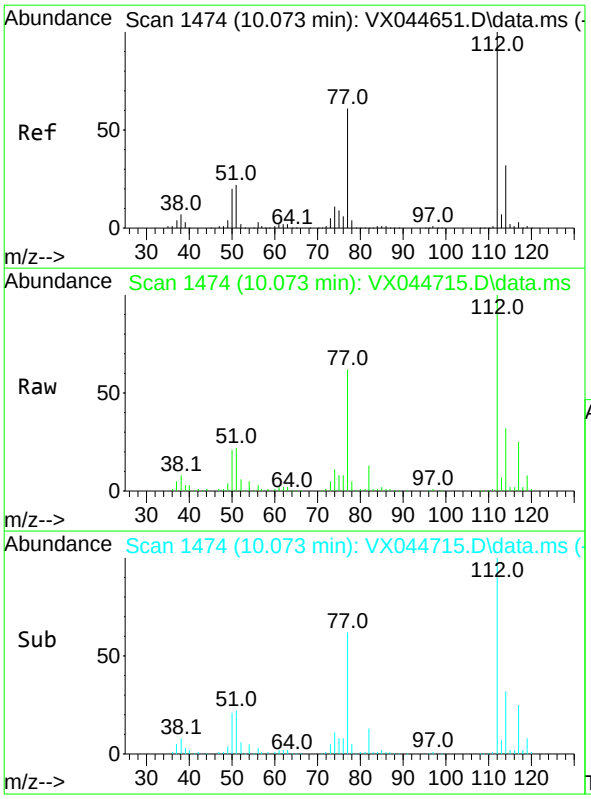



#64
Tetrachloroethene
Concen: 18.672 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:164 Resp: 33701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.4 | 102.0 | 153.0 |
| 129 | 102.6 | 81.1 | 121.7 |
| 131 | 96.0 | 79.0 | 118.6 |

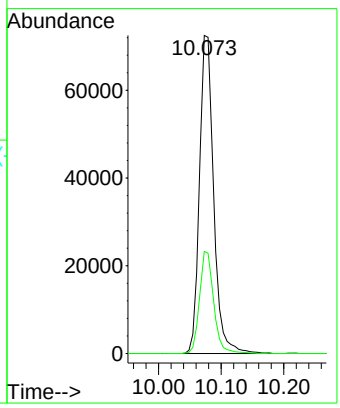





#65
Chlorobenzene
Concen: 18.702 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:112 Resp: 114176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.1 | 25.3 | 37.9 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
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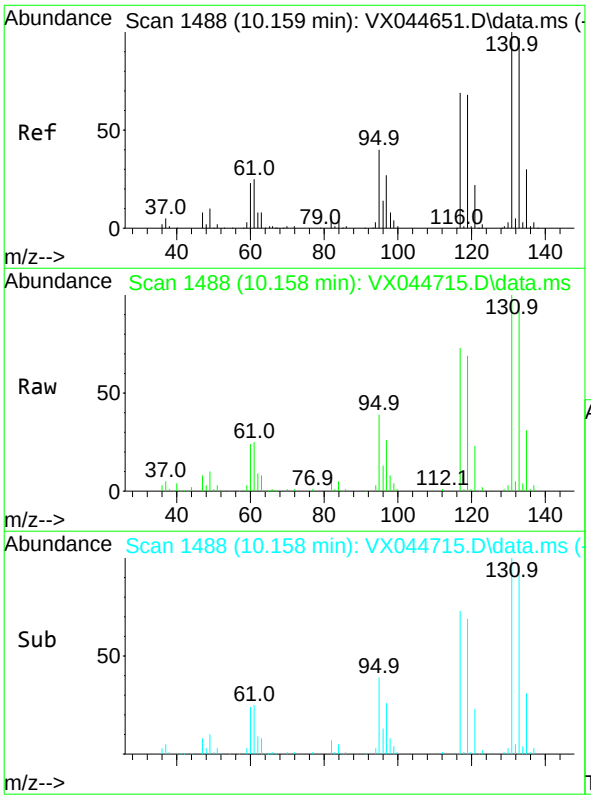
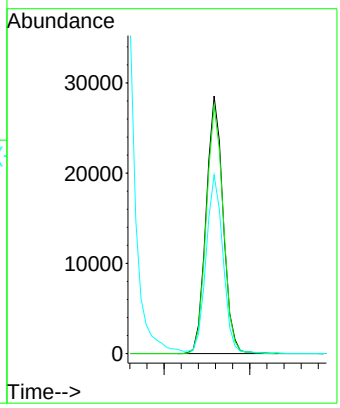
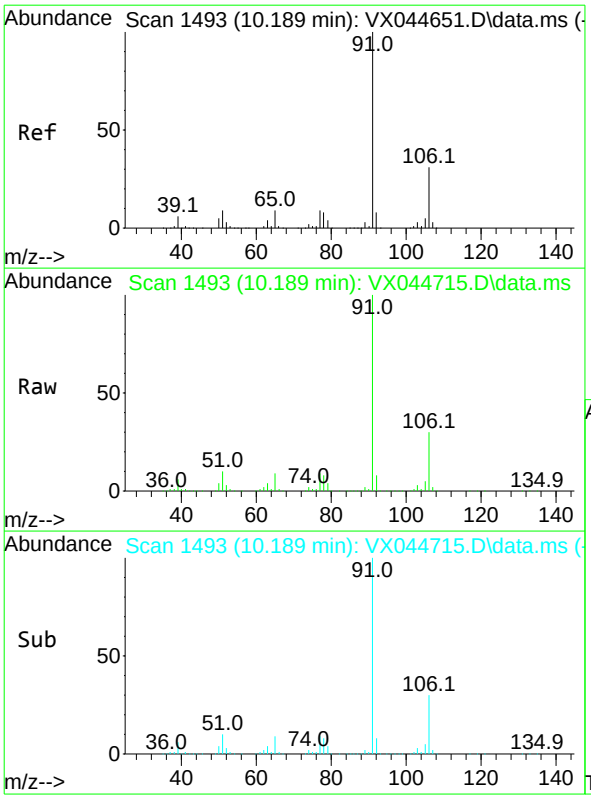



#66
1,1,1,2-Tetrachloroethane
Concen: 17.674 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:131 Resp: 39214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.3 | 47.8 | 143.3 |
| 119 | 69.4 | 33.4 | 100.2 |






#67
Ethyl Benzene
Concen: 18.765 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 91 Resp: 199900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.1 | 25.0 | 37.6 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

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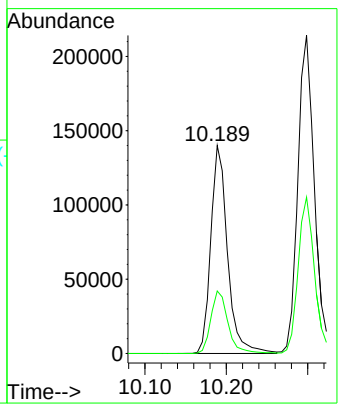
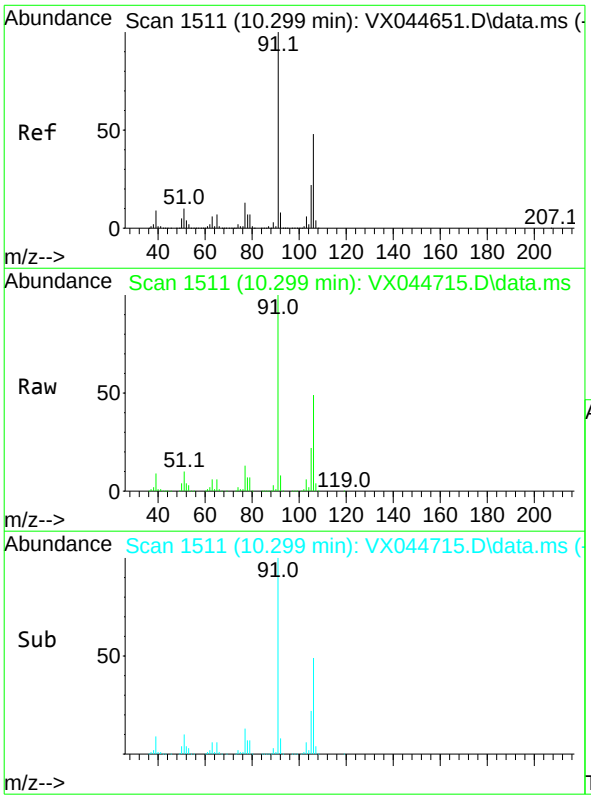
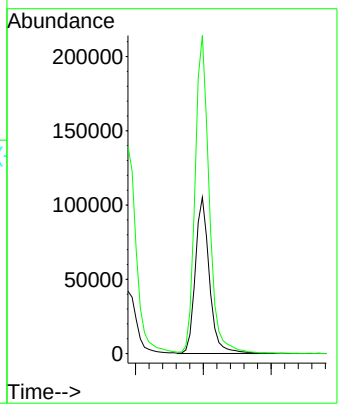


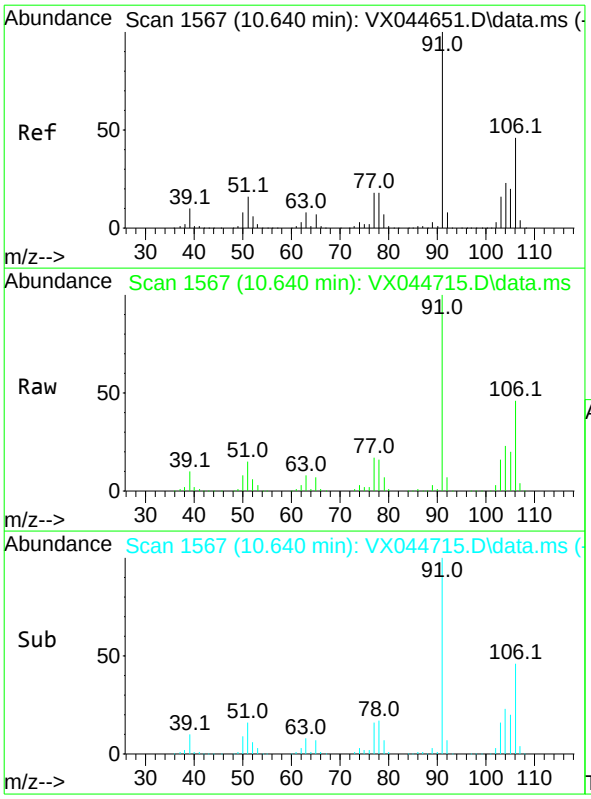




#68
m/p-Xylenes
Concen: 38.135 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:106 Resp: 150751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.8 | 166.4 | 249.6 |

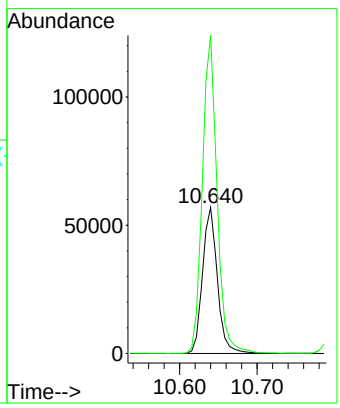





#69
o-Xylene
Concen: 18.921 ug/l
RT: 10.640 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:106 Resp: 75639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.1 | 108.7 | 326.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
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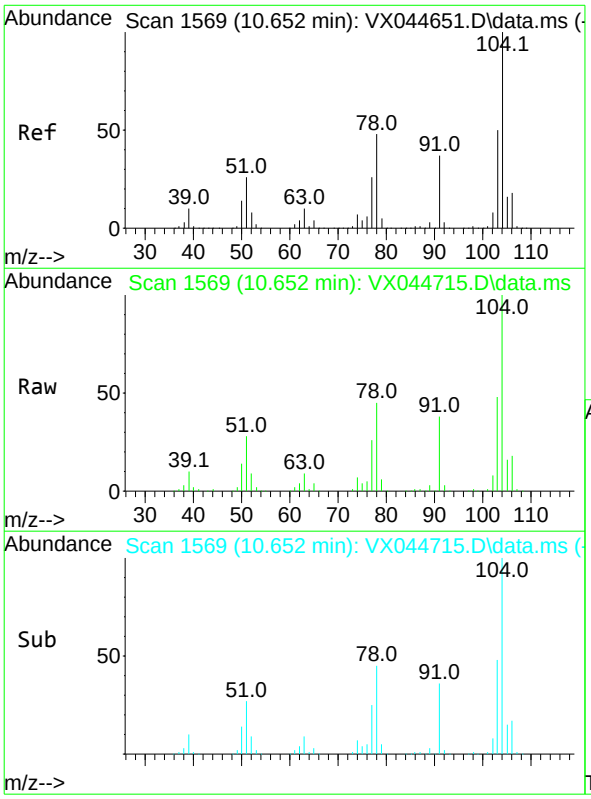
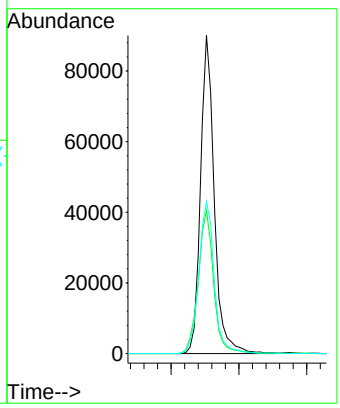
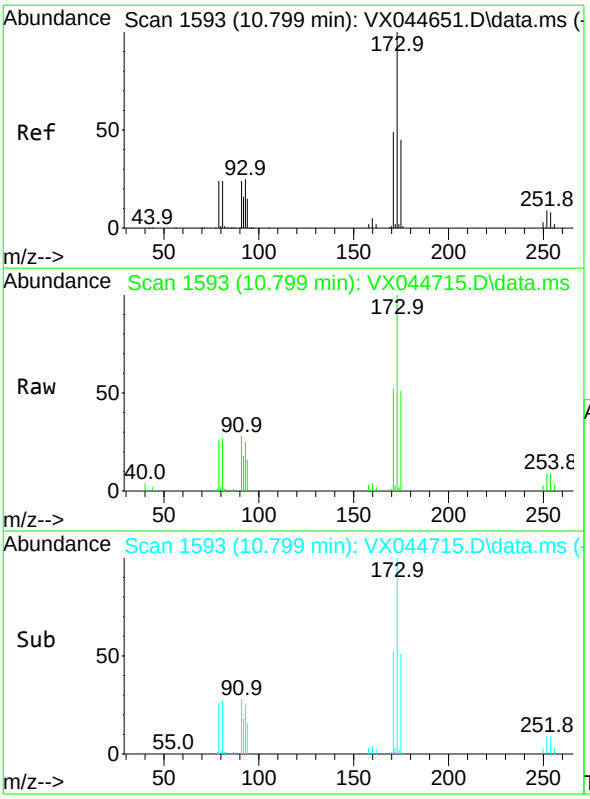



#70
Styrene
Concen: 19.600 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:104 Resp: 126504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.2 | 43.0 | 64.6 |
| 103 | 53.7 | 43.4 | 65.2 |






#71
Bromoform
Concen: 17.798 ug/l
RT: 10.799 min Scan# 15
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:173 Resp: 32141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.6 | 70.8 |
| 254 | 0.0 | 0.1 | 0.1# |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
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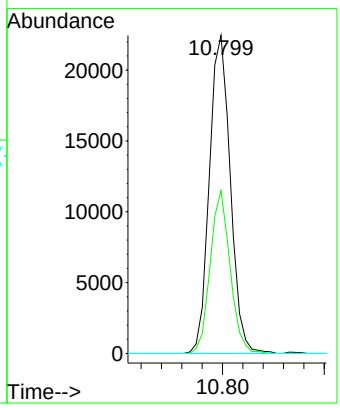
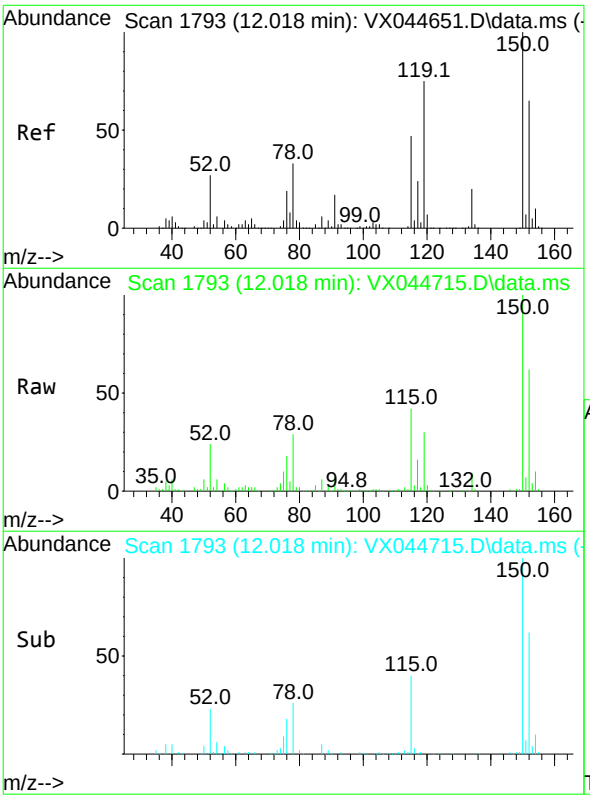
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

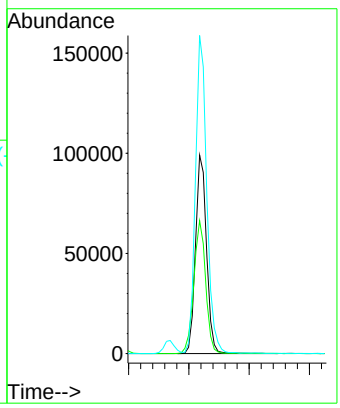


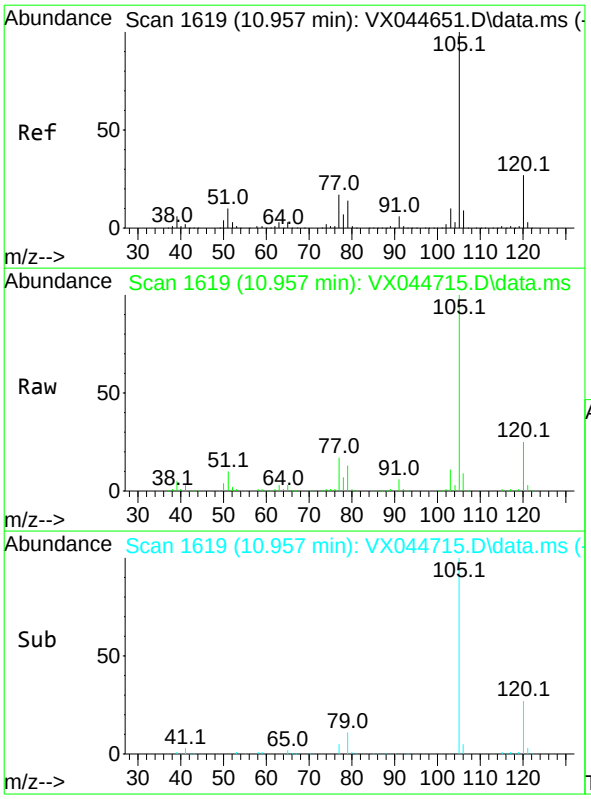




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:152 Resp: 125692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 72.2 | 43.8 | 131.4 |
| 150 | 164.2 | 0.0 | 347.8 |

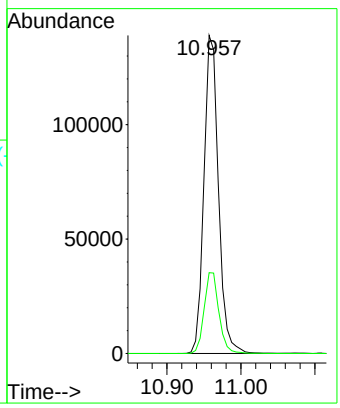





#73
Isopropylbenzene
Concen: 18.433 ug/l
RT: 10.957 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:105 Resp: 189275

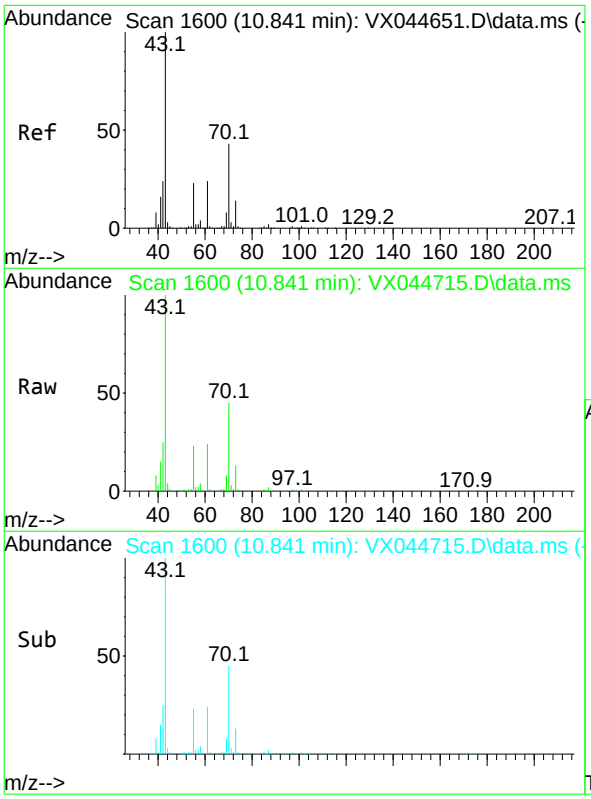
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 13.2 | 39.6 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

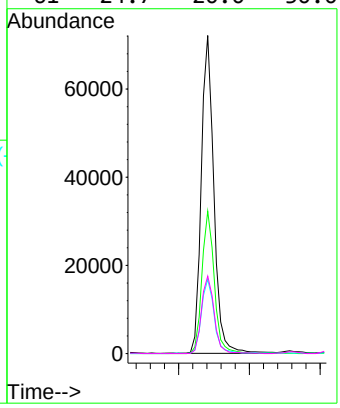
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

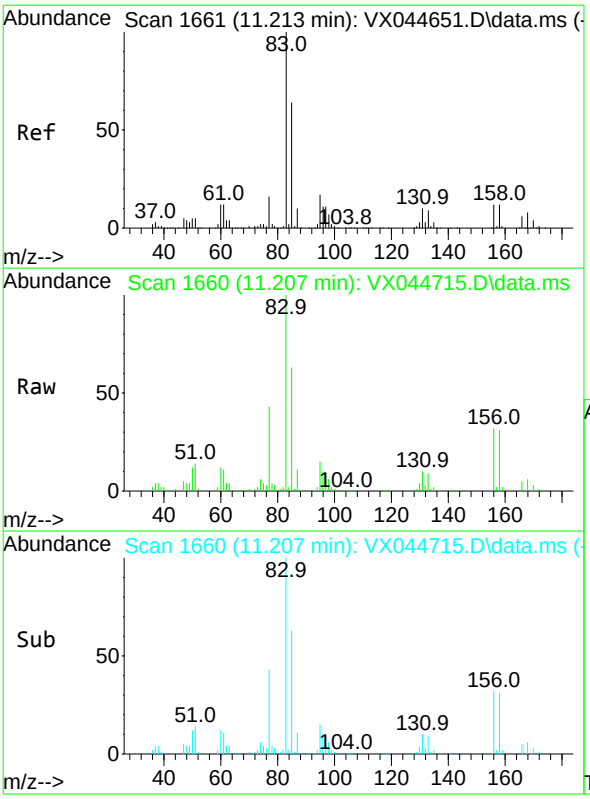



#74
N-amyl acetate
Concen: 17.648 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 89318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.1 | 35.2 | 52.8 |
| 55 | 23.5 | 19.0 | 28.4 |
| 61 | 24.7 | 20.0 | 30.0 |

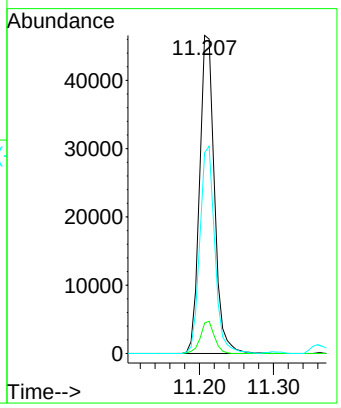





#75
1,1,2,2-Tetrachloroethane
Concen: 18.294 ug/l
RT: 11.207 min Scan# 16
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 83 Resp: 64877

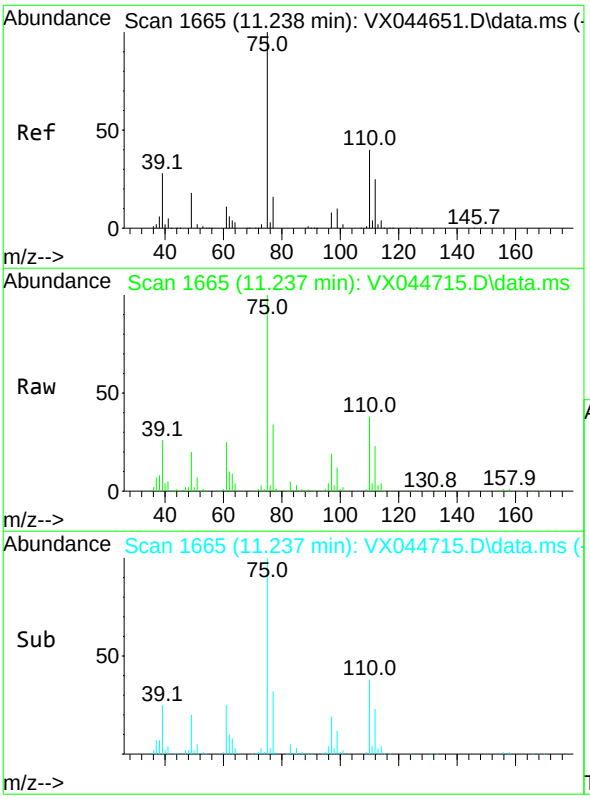
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 5.0 | 14.9 |
| 85 | 65.7 | 32.0 | 96.2 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

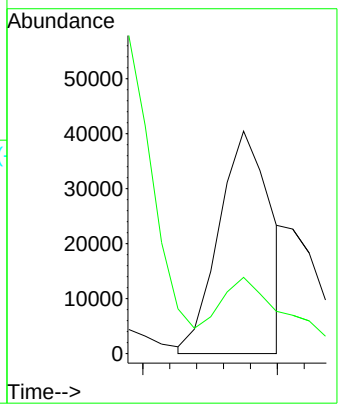
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

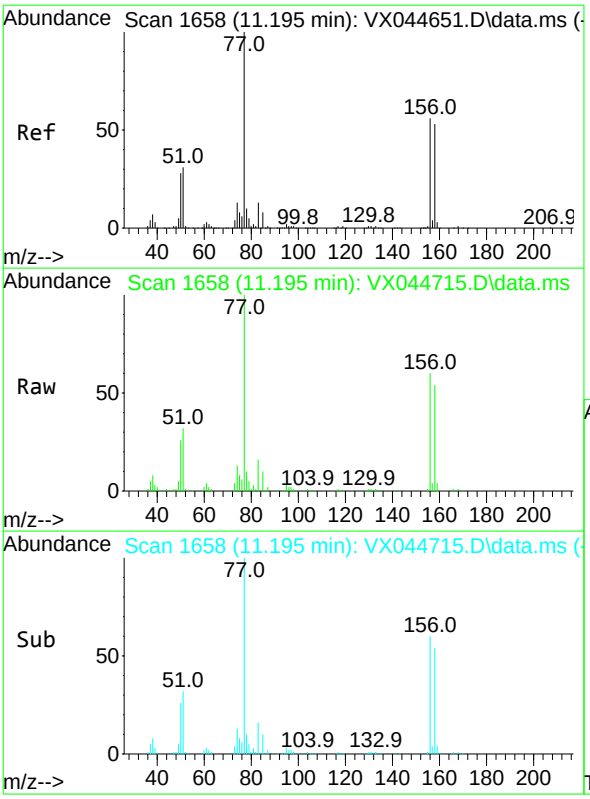



#76
1,2,3-Trichloropropane
Concen: 17.710 ug/l m
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 75 Resp: 54022

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 45.9 | 23.4 | 70.2 |

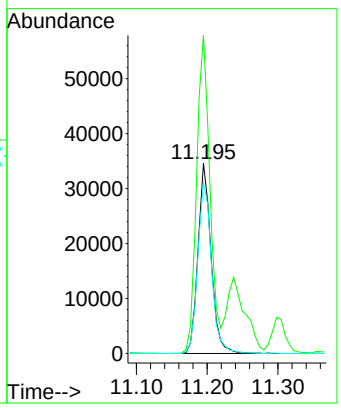





#77
Bromobenzene
Concen: 18.538 ug/l
RT: 11.195 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:156 Resp: 44492

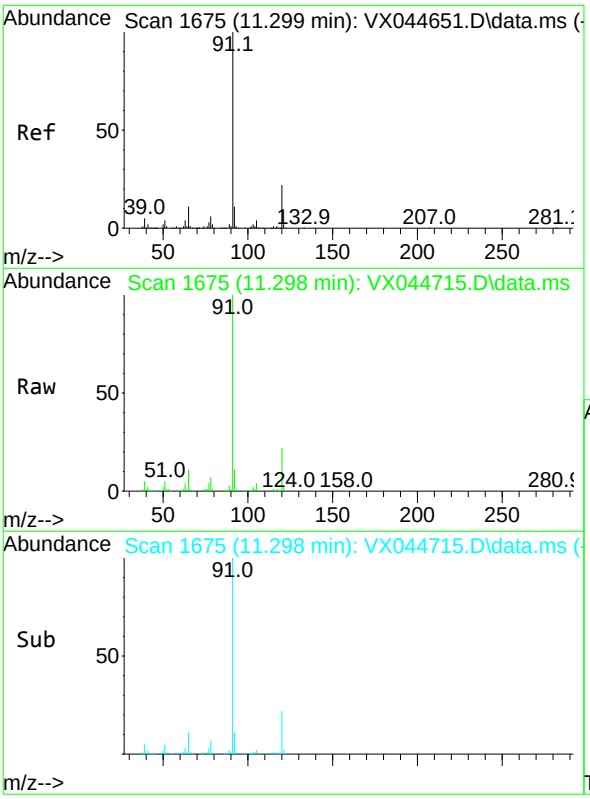
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 169.8 | 90.3 | 271.0 |
| 158 | 94.8 | 48.4 | 145.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

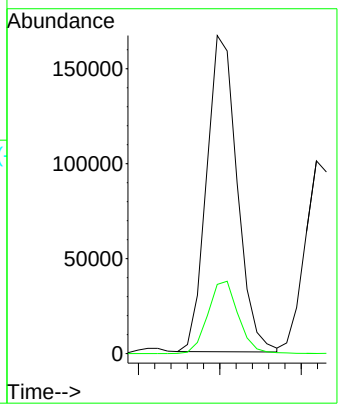
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

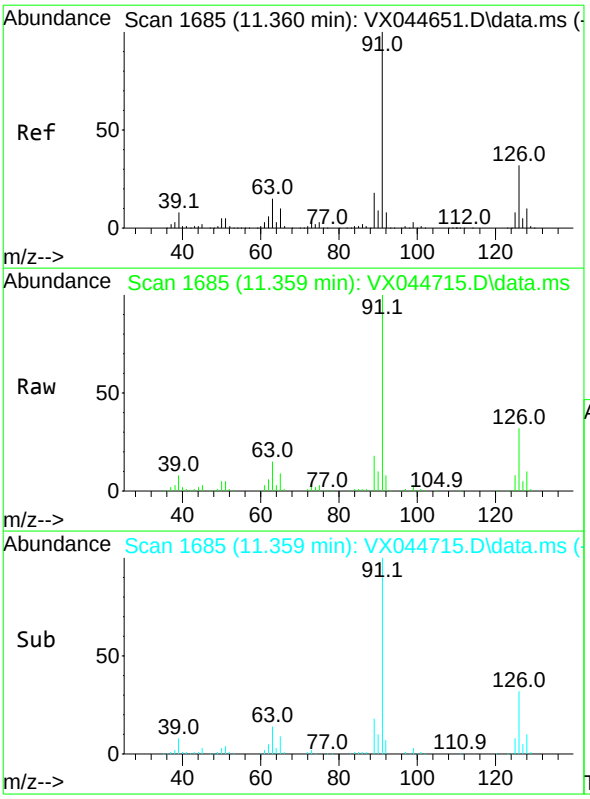



#78
n-propylbenzene
Concen: 19.229 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 91 Resp: 217748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.8 | 11.4 | 34.1 |






#79
2-Chlorotoluene
Concen: 18.432 ug/l
RT: 11.359 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

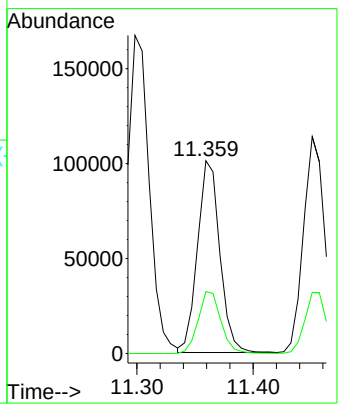
Tgt Ion: 91 Resp: 134830

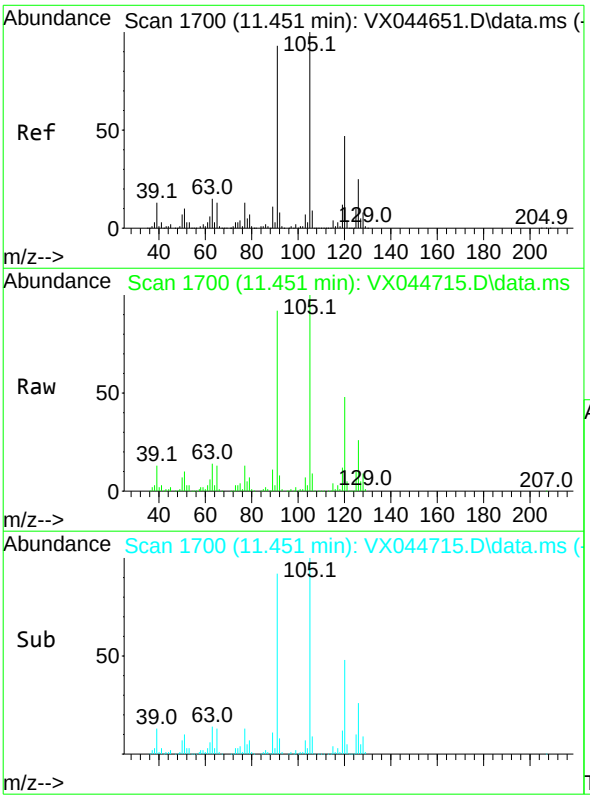
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.0 | 16.2 | 48.5 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

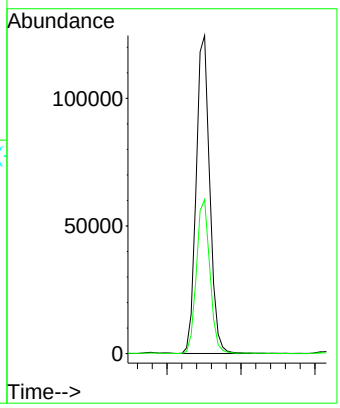


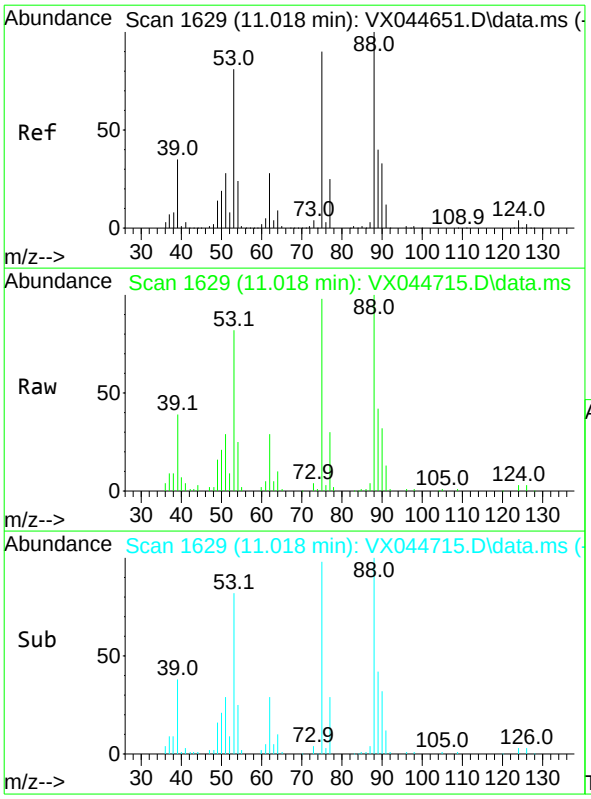




#80
1,3,5-Trimethylbenzene
Concen: 19.003 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:105 Resp: 158844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.3 | 23.7 | 71.1 |






#81
trans-1,4-Dichloro-2-butene
Concen: 17.776 ug/l
RT: 11.018 min Scan# 16
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 75 Resp: 23711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 86.3 | 74.3 | 111.5 |
| 89 | 43.5 | 37.4 | 56.0 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
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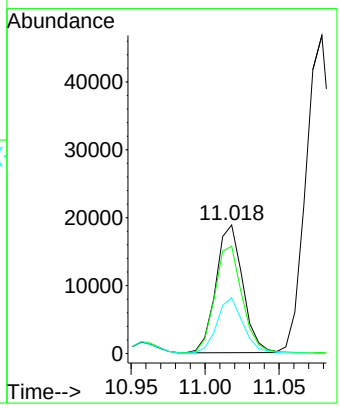
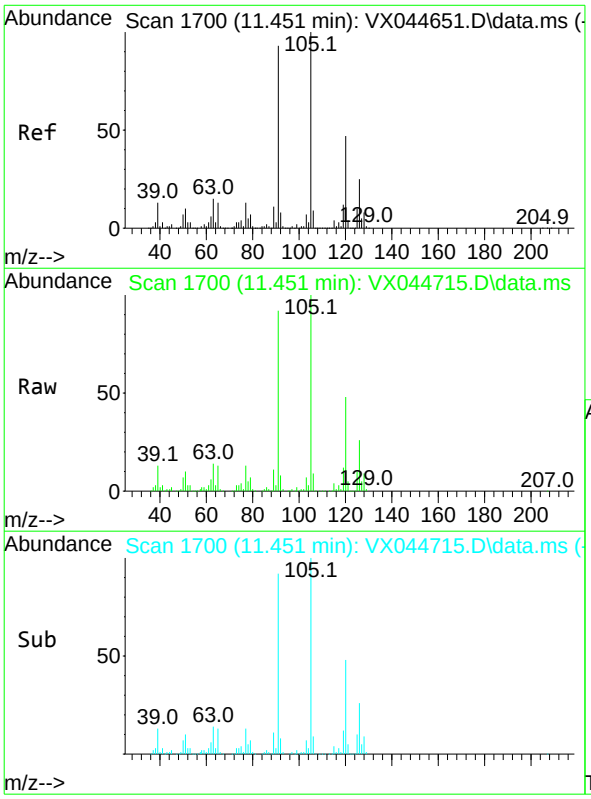
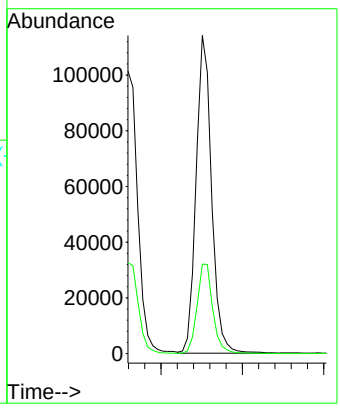


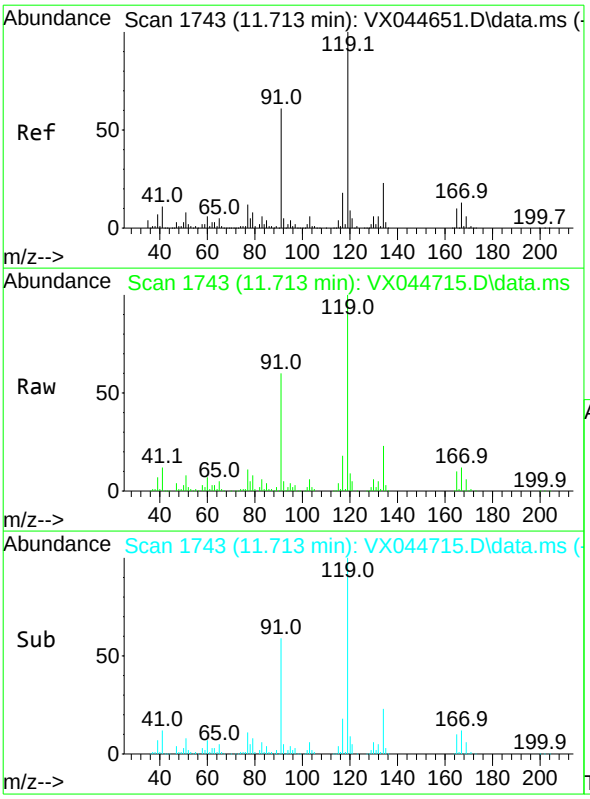




#82
4-Chlorotoluene
Concen: 18.780 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 91 Resp: 150487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.8 | 13.9 | 41.7 |






#83
tert-Butylbenzene
Concen: 18.334 ug/l
RT: 11.713 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

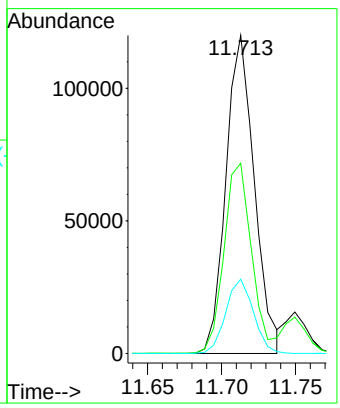
**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

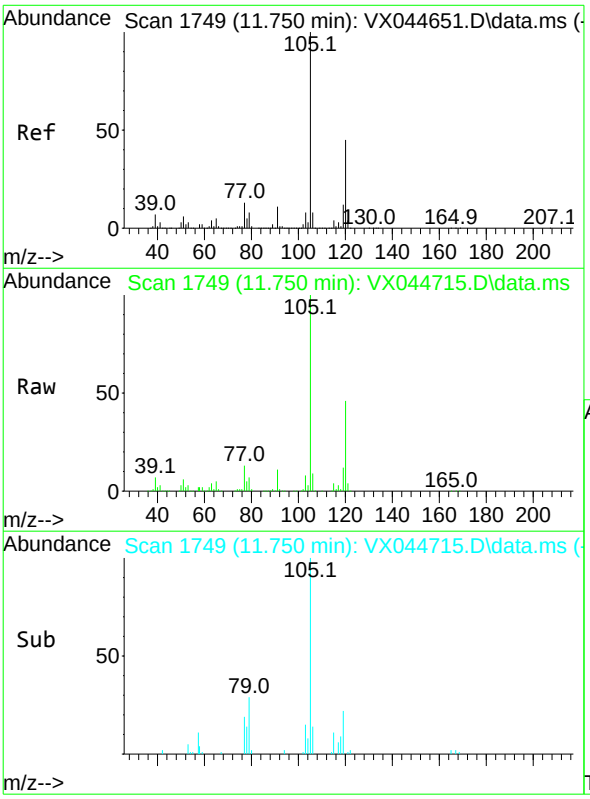
Tgt Ion:119 Resp: 160244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 58.6 | 30.0 | 90.0 |
| 134 | 22.7 | 11.2 | 33.5 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

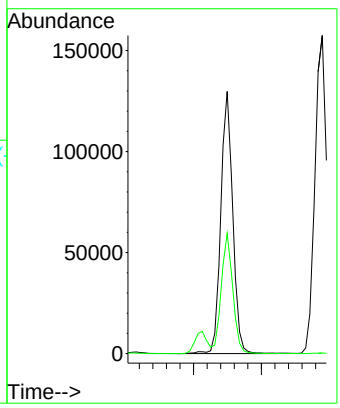


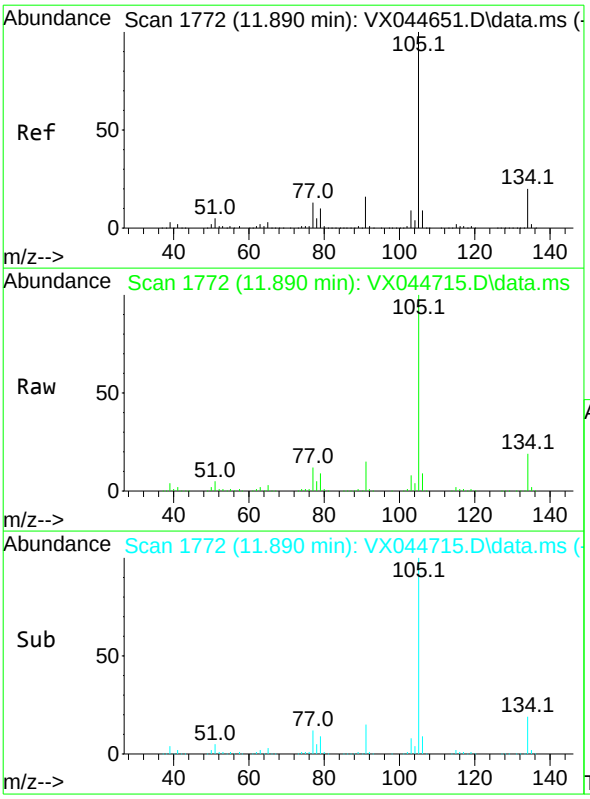




#84
1,2,4-Trimethylbenzene
Concen: 18.677 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:105 Resp: 158646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.3 | 22.2 | 66.6 |

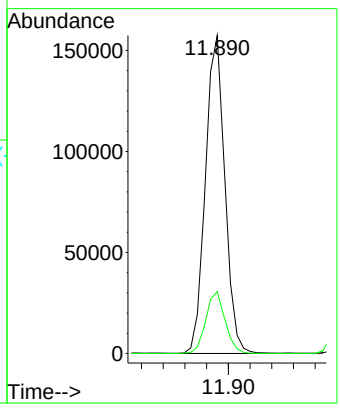





#85
sec-Butylbenzene
Concen: 19.273 ug/l
RT: 11.890 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:105 Resp: 196136

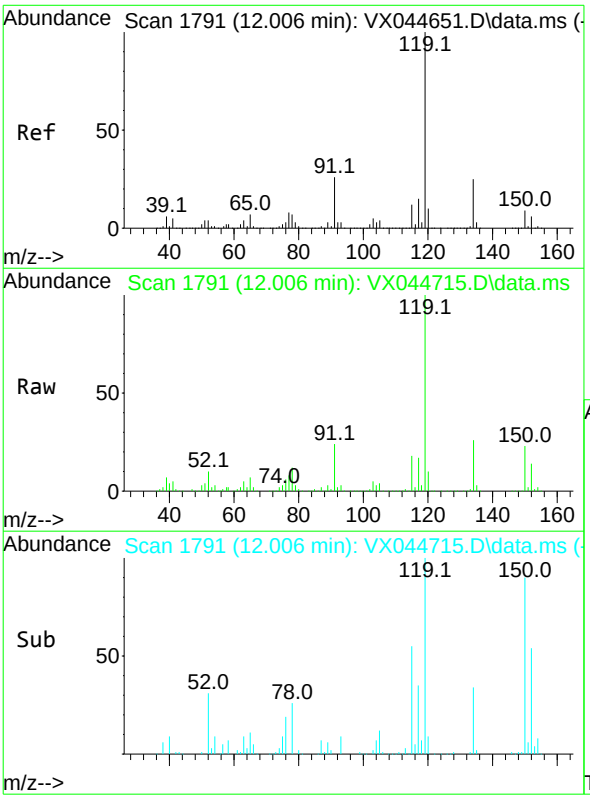
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.8 | 29.5 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

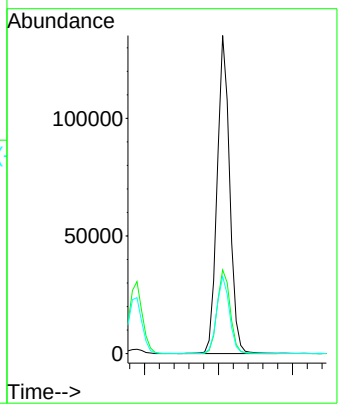
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

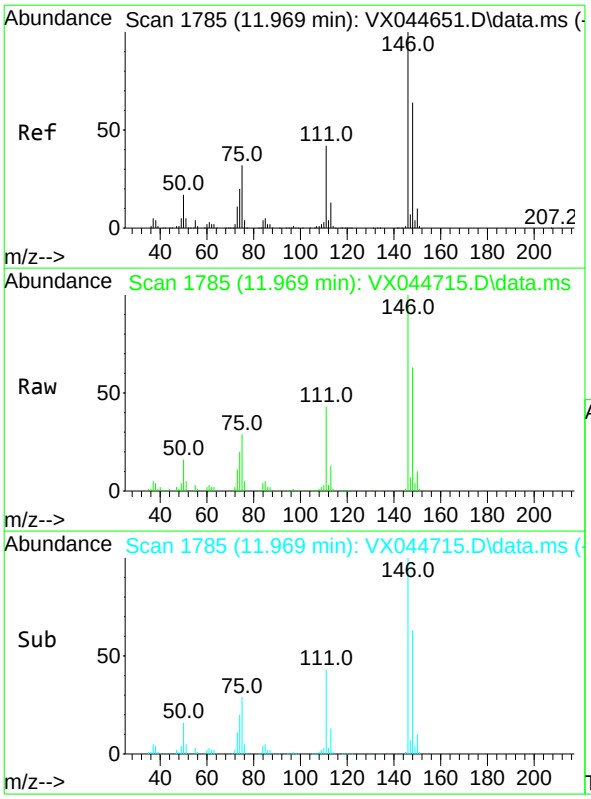



#86
p-Isopropyltoluene
Concen: 19.029 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:119 Resp: 159144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.1 | 12.8 | 38.4 |
| 91 | 24.4 | 12.7 | 38.1 |






#87
1,3-Dichlorobenzene
Concen: 18.793 ug/l
RT: 11.969 min Scan# 17
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

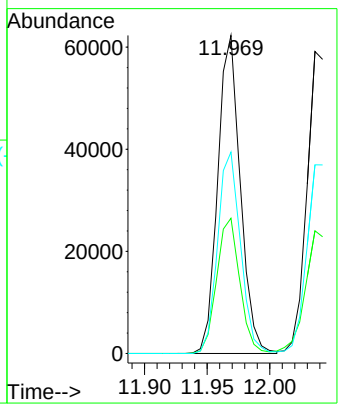
**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

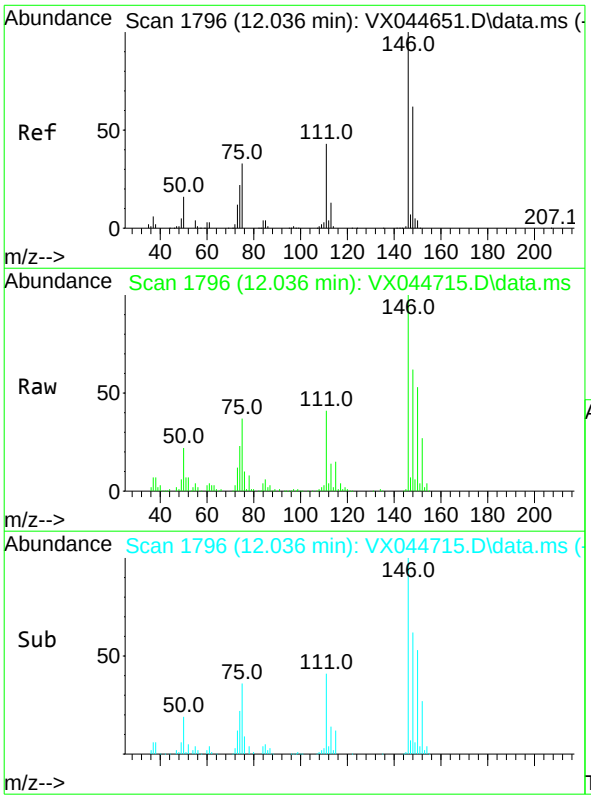
Tgt Ion:146 Resp: 78221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.5 | 21.9 | 65.7 |
| 148 | 64.3 | 31.8 | 95.4 |

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

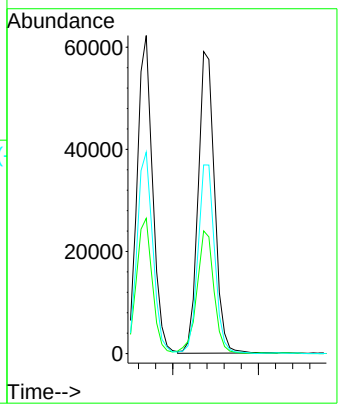


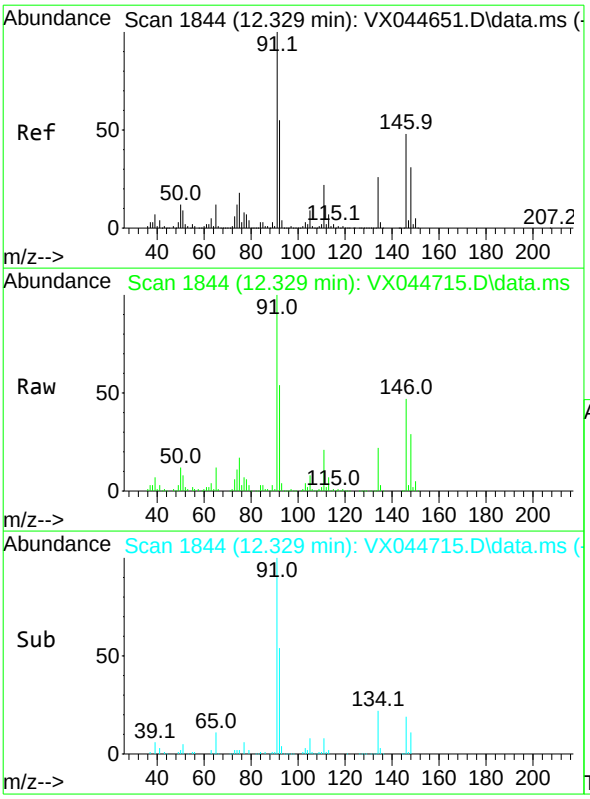




#88
1,4-Dichlorobenzene
Concen: 18.742 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:146 Resp: 78858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.9 | 21.5 | 64.5 |
| 148 | 63.7 | 32.1 | 96.5 |

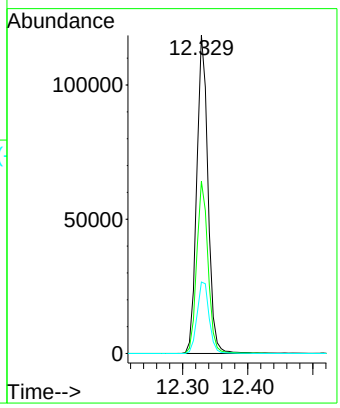





#89
n-Butylbenzene
Concen: 19.808 ug/l
RT: 12.329 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 91 Resp: 142284

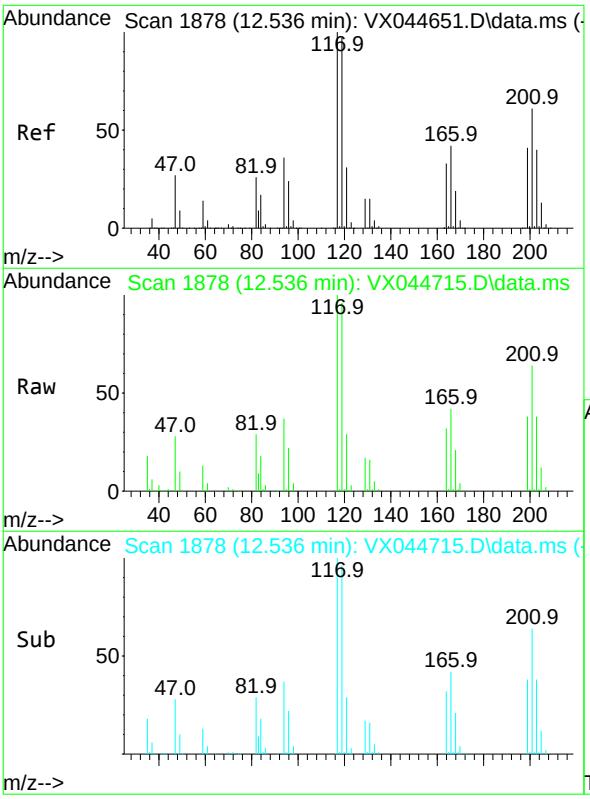
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.4 | 27.4 | 82.0 |
| 134 | 24.0 | 12.8 | 38.3 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

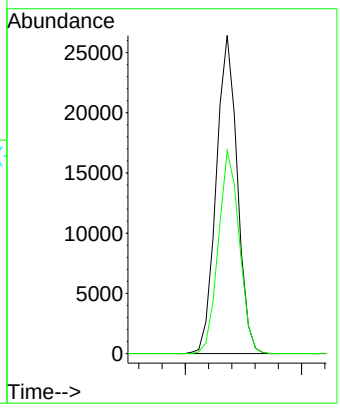
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

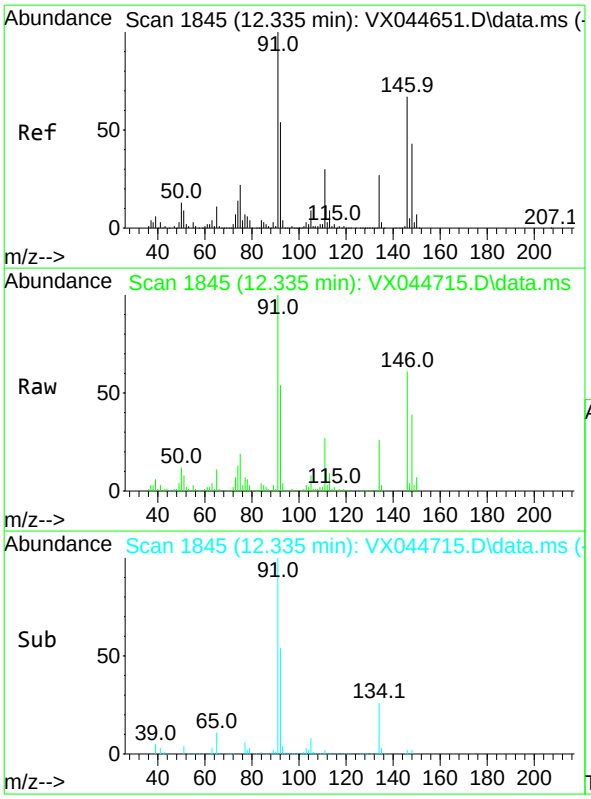



#90
Hexachloroethane
Concen: 17.551 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:117 Resp: 33238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.6 | 32.3 | 96.8 |

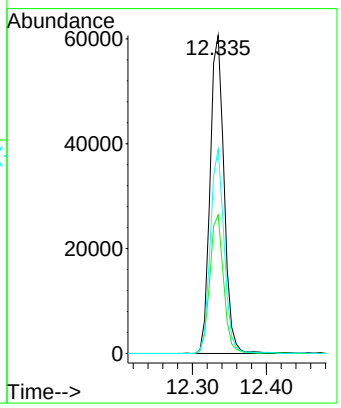





#91
1,2-Dichlorobenzene
Concen: 18.586 ug/l
RT: 12.335 min Scan# 18
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:146 Resp: 79447

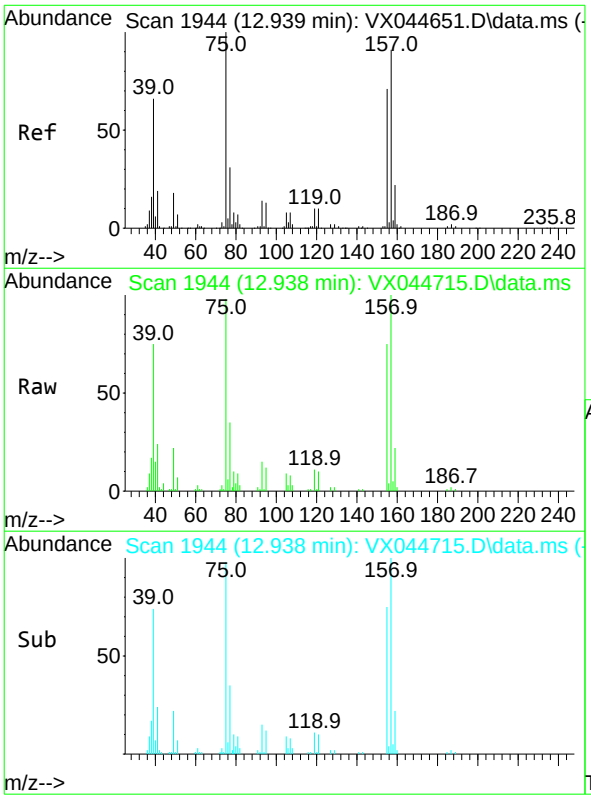
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 22.4 | 67.2 |
| 148 | 63.5 | 31.6 | 94.8 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

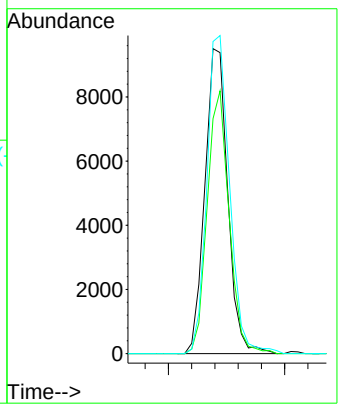
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

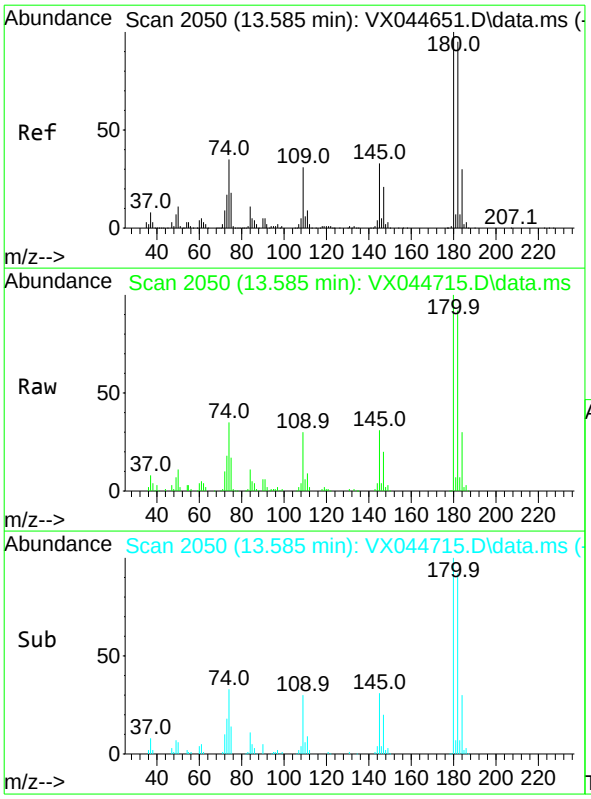



#92
1,2-Dibromo-3-Chloropropane
Concen: 14.949 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 75 Resp: 12965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.6 | 39.0 | 116.9 |
| 157 | 104.0 | 49.9 | 149.7 |






#93
1,2,4-Trichlorobenzene
Concen: 19.078 ug/l
RT: 13.585 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

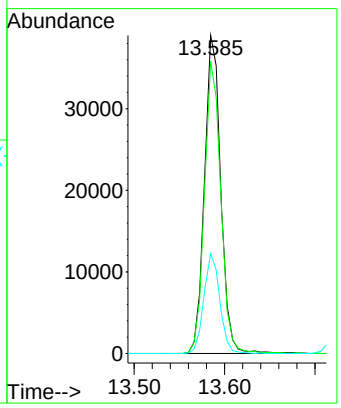
Tgt Ion:180 Resp: 48749

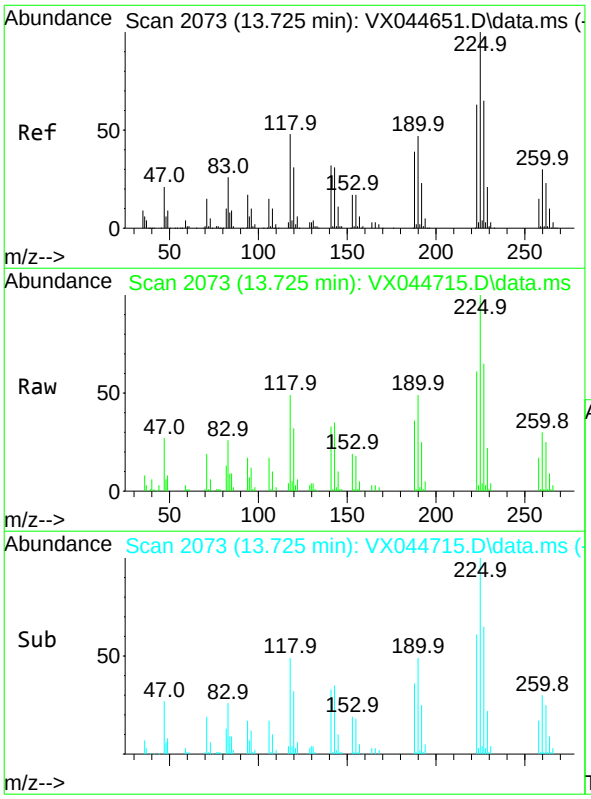
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.5 | 47.4 | 142.2 |
| 145 | 30.8 | 16.7 | 50.1 |

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025

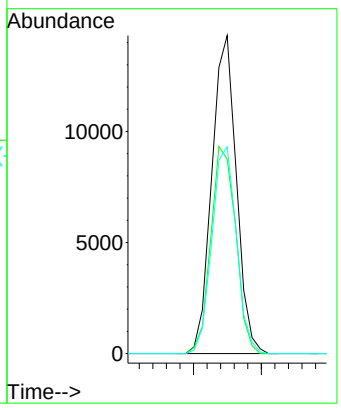


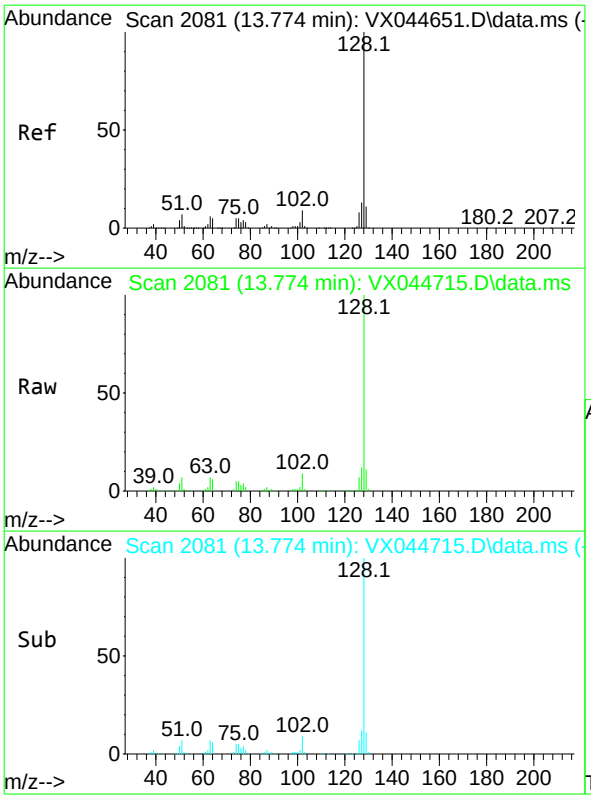




#94
Hexachlorobutadiene
Concen: 17.945 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:225 Resp: 18012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 65.9 | 31.9 | 95.7 |
| 227 | 65.1 | 31.8 | 95.4 |

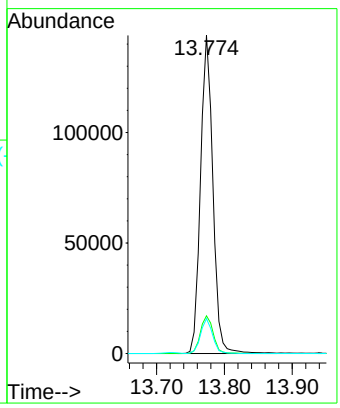





#95
Naphthalene
Concen: 18.471 ug/l
RT: 13.774 min Scan# 20
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:128 Resp: 182044

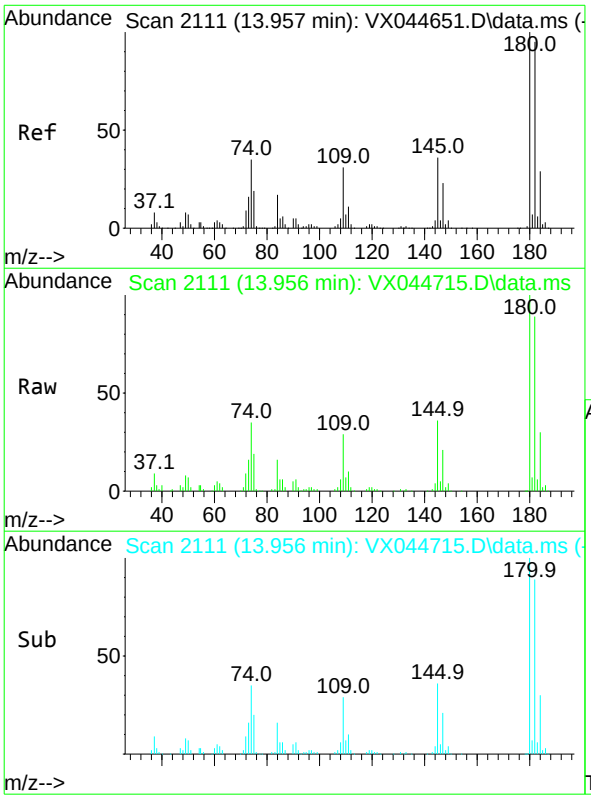
| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.2 | 10.3 | 15.5 |
| 129 | 10.6 | 8.7 | 13.1 |




**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

**Manual Integrations**
**APPROVED**

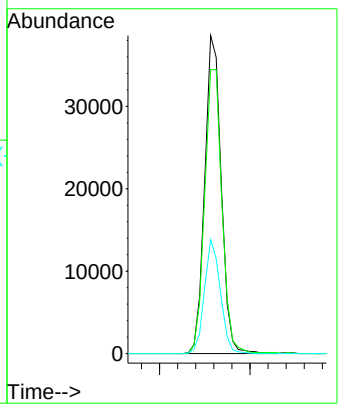
Reviewed By :John Carlone 01/28/2025
Supervised By :Mahesh Dadoda 01/28/2025




#96
1,2,3-Trichlorobenzene
Concen: 18.489 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:180 Resp: 48973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 47.2 | 141.6 |
| 145 | 34.6 | 17.5 | 52.6 |



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

# Manual Integration Report

| Sequence: | VX011525 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICC001 | VX044648.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 3:49:52 PM | SAM | 1/16/2025 7:37:32 AM | Peak Integrated by Software |
| VSTDICC001 | VX044648.D | 1,4-Dichlorobenzene | JOHN | 1/15/2025 3:49:52 PM | SAM | 1/16/2025 7:37:32 AM | Peak Integrated by Software |
| VSTDICC001 | VX044648.D | Methacrylonitrile | JOHN | 1/15/2025 3:49:52 PM | SAM | 1/16/2025 7:37:32 AM | Peak Integrated by Software |
| VSTDICC005 | VX044649.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 3:49:56 PM | SAM | 1/16/2025 7:37:34 AM | Peak Integrated by Software |
| VSTDICC005 | VX044649.D | Tert butyl alcohol | JOHN | 1/15/2025 3:49:56 PM | SAM | 1/16/2025 7:37:34 AM | Peak Integrated by Software |
| VSTDICC020 | VX044650.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 3:50:00 PM | SAM | 1/16/2025 7:37:35 AM | Peak Integrated by Software |
| VSTDICC020 | VX044650.D | Tert butyl alcohol | JOHN | 1/15/2025 3:50:00 PM | SAM | 1/16/2025 7:37:35 AM | Peak Integrated by Software |
| VSTDICCC050 | VX044651.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 3:50:04 PM | SAM | 1/16/2025 7:37:43 AM | Peak Integrated by Software |
| VSTDICCC050 | VX044651.D | Tert butyl alcohol | JOHN | 1/15/2025 3:50:04 PM | SAM | 1/16/2025 7:37:43 AM | Peak Integrated by Software |
| VSTDICC100 | VX044652.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 3:50:09 PM | SAM | 1/16/2025 7:37:45 AM | Peak Integrated by Software |
| VSTDICC100 | VX044652.D | Tert butyl alcohol | JOHN | 1/15/2025 3:50:09 PM | SAM | 1/16/2025 7:37:45 AM | Peak Integrated by Software |
| VSTDICC150 | VX044653.D | 1,2,3-Trichloropropane | JOHN | 1/15/2025 3:50:13 PM | SAM | 1/16/2025 7:37:47 AM | Peak Integrated by Software |
| VSTDICC150 | VX044653.D | Tert butyl alcohol | JOHN | 1/15/2025 3:50:13 PM | SAM | 1/16/2025 7:37:47 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VX011525 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDICV050 | VX044655.D | 1,2,3-Trichloropropane | MMDADODA | 1/16/2025 7:35:14 AM | SAM | 1/16/2025 7:37:49 AM | Peak Integrated by Software |
| VSTDICV050 | VX044655.D | Tert butyl alcohol | MMDADODA | 1/16/2025 7:35:14 AM | SAM | 1/16/2025 7:37:49 AM | Peak Integrated by Software |

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# Manual Integration Report

| Sequence: | VX012725 | Instrument | MSVOA_x |
|---|---|---|---|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|---|---|---|---|---|---|---|---|
| VSTDCCC050 | VX044711.D | 1,2,3-Trichloropropane | JOHN | 1/28/2025 10:00:00 AM | MMDadoda | 1/28/2025 2:28:00 PM | Peak Integrated by Software |
| VSTDCCC050 | VX044711.D | Chloroethane | JOHN | 1/28/2025 10:00:00 AM | MMDadoda | 1/28/2025 2:28:00 PM | Peak Integrated by Software |
| VSTDCCC050 | VX044711.D | Tert butyl alcohol | JOHN | 1/28/2025 10:00:00 AM | MMDadoda | 1/28/2025 2:28:00 PM | Peak Integrated by Software |
| VX0127WBS01 | VX044714.D | 1,2,3-Trichloropropane | JOHN | 1/28/2025 10:00:04 AM | MMDadoda | 1/28/2025 2:28:02 PM | Peak Integrated by Software |
| VX0127WBSD01 | VX044715.D | 1,2,3-Trichloropropane | JOHN | 1/28/2025 10:00:08 AM | MMDadoda | 1/28/2025 2:28:02 PM | Peak Integrated by Software |
| VSTDCCC050 | VX044734.D | 1,2,3-Trichloropropane | JOHN | 1/28/2025 10:00:21 AM | MMDadoda | 1/28/2025 2:28:03 PM | Peak Integrated by Software |
| VSTDCCC050 | VX044734.D | Chloroethane | JOHN | 1/28/2025 10:00:21 AM | MMDadoda | 1/28/2025 2:28:03 PM | Peak Integrated by Software |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX011525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/15/2025 4:32:35 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/16/2025 7:35:39 AM | | |
| SubDirectory | VX011525 | HP Acquire Method | | HP Processing Method | 82X011525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132553 |
| Initial Calibration Stds | VP132558,VP132559,VP132560,VP132561,VP132562,VP132563 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP132564 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX044647.D | 15 Jan 2025 09:30 | JC/MD | Ok |
| 2 | VSTDICC001 | VX044648.D | 15 Jan 2025 10:31 | JC/MD | Ok,M |
| 3 | VSTDICC005 | VX044649.D | 15 Jan 2025 11:17 | JC/MD | Ok,M |
| 4 | VSTDICC020 | VX044650.D | 15 Jan 2025 11:40 | JC/MD | Ok,M |
| 5 | VSTDICCC050 | VX044651.D | 15 Jan 2025 12:02 | JC/MD | Ok,M |
| 6 | VSTDICC100 | VX044652.D | 15 Jan 2025 13:14 | JC/MD | Ok,M |
| 7 | VSTDICC150 | VX044653.D | 15 Jan 2025 13:37 | JC/MD | Ok,M |
| 8 | IBLK | VX044654.D | 15 Jan 2025 14:00 | JC/MD | Ok |
| 9 | VSTDICV050 | VX044655.D | 15 Jan 2025 15:15 | JC/MD | Ok,M |

M : Manual Integration

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX012725

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/28/2025 10:02:21 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/28/2025 2:28:05 PM | | |
| SubDirectory | VX012725 | HP Acquire Method | | HP Processing Method | 82X011525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132695 |
| Initial Calibration Stds | |
| CCC | VP132696,VP132697 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | Data File Name | Date-Time | Operator | Status |
|---|---|---|---|---|---|
| 1 | BFB | VX044710.D | 27 Jan 2025 08:47 | JC/MD | Ok |
| 2 | VSTDCCC050 | VX044711.D | 27 Jan 2025 10:08 | JC/MD | Ok,M |
| 3 | VX0127MBL01 | VX044712.D | 27 Jan 2025 10:38 | JC/MD | Ok |
| 4 | VX0127WBL01 | VX044713.D | 27 Jan 2025 11:01 | JC/MD | Ok |
| 5 | VX0127WBS01 | VX044714.D | 27 Jan 2025 11:24 | JC/MD | Ok,M |
| 6 | VX0127WBSD01 | VX044715.D | 27 Jan 2025 11:52 | JC/MD | Ok,M |
| 7 | Q1173-06 | VX044716.D | 27 Jan 2025 12:15 | JC/MD | Ok |
| 8 | Q1173-01 | VX044717.D | 27 Jan 2025 12:38 | JC/MD | Ok |
| 9 | Q1173-02 | VX044718.D | 27 Jan 2025 13:01 | JC/MD | Ok |
| 10 | Q1173-03 | VX044719.D | 27 Jan 2025 13:24 | JC/MD | Ok |
| 11 | Q1173-04 | VX044720.D | 27 Jan 2025 13:47 | JC/MD | Ok |
| 12 | Q1173-05 | VX044721.D | 27 Jan 2025 14:09 | JC/MD | Ok |
| 13 | PB166212TB | VX044722.D | 27 Jan 2025 14:32 | JC/MD | Ok |
| 14 | PB166212ZHE#01 | VX044723.D | 27 Jan 2025 14:55 | JC/MD | Ok |
| 15 | PB166212ZHE#02 | VX044724.D | 27 Jan 2025 15:18 | JC/MD | Ok |
| 16 | PB166212ZHE#03 | VX044725.D | 27 Jan 2025 15:42 | JC/MD | Ok |
| 17 | Q1169-02 | VX044726.D | 27 Jan 2025 16:04 | JC/MD | Ok |
| 18 | Q1169-04 | VX044727.D | 27 Jan 2025 16:28 | JC/MD | Ok |
| 19 | Q1169-06 | VX044728.D | 27 Jan 2025 16:51 | JC/MD | Ok |
| 20 | IBLK | VX044729.D | 27 Jan 2025 17:14 | JC/MD | Ok |
| 21 | Q1180-01 | VX044730.D | 27 Jan 2025 17:37 | JC/MD | Ok |

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**Instrument ID: MSVOA_X**

## Daily Analysis Runlog For Sequence/QCBatch ID # VX012725

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/28/2025 10:02:21 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/28/2025 2:28:05 PM | | |
| SubDirectory | VX012725 | HP Acquire Method | | HP Processing Method | 82X011525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132695 |
| Initial Calibration Stds | |
| CCC | VP132696,VP132697 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | |
|---|---|---|---|---|---|
| 22 | Q1180-02 | VX044731.D | 27 Jan 2025 18:00 | JC/MD | Ok |
| 23 | Q1180-03 | VX044732.D | 27 Jan 2025 18:23 | JC/MD | Ok |
| 24 | Q1180-04 | VX044733.D | 27 Jan 2025 18:46 | JC/MD | ReRun |
| 25 | VSTDCCC050 | VX044734.D | 27 Jan 2025 19:09 | JC/MD | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX011525

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/15/2025 4:32:35 PM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/16/2025 7:35:39 AM | | |
| SubDirectory | VX011525 | HP Acquire Method | | HP Processing Method | 82X011525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132553 |
| Initial Calibration Stds | VP132558,VP132559,VP132560,VP132561,VP132562,VP132563 |
| CCC | |
| Internal Standard/PEM | |
| ICV/I.BLK | VP132564 |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX044647.D | 15 Jan 2025 09:30 | | JC/MD | Ok |
| 2 | VSTDICC001 | VSTDICC001 | VX044648.D | 15 Jan 2025 10:31 | | JC/MD | Ok,M |
| 3 | VSTDICC005 | VSTDICC005 | VX044649.D | 15 Jan 2025 11:17 | | JC/MD | Ok,M |
| 4 | VSTDICC020 | VSTDICC020 | VX044650.D | 15 Jan 2025 11:40 | | JC/MD | Ok,M |
| 5 | VSTDICCC050 | VSTDICCC050 | VX044651.D | 15 Jan 2025 12:02 | Method failed for Acrolein | JC/MD | Ok,M |
| 6 | VSTDICC100 | VSTDICC100 | VX044652.D | 15 Jan 2025 13:14 | | JC/MD | Ok,M |
| 7 | VSTDICC150 | VSTDICC150 | VX044653.D | 15 Jan 2025 13:37 | | JC/MD | Ok,M |
| 8 | IBLK | IBLK | VX044654.D | 15 Jan 2025 14:00 | | JC/MD | Ok |
| 9 | VSTDICV050 | ICVVX011525 | VX044655.D | 15 Jan 2025 15:15 | | JC/MD | Ok,M |

M : Manual Integration

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Fax : 908 789 8922

**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX012725

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/28/2025 10:02:21 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/28/2025 2:28:05 PM | | |
| SubDirectory | VX012725 | HP Acquire Method | | HP Processing Method | 82X011525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132695 |
| Initial Calibration Stds | |
| CCC | VP132696,VP132697 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| Sr# | SampleId | ClientID | Data File Name | Date-Time | Comment | Operator | Status |
|---|---|---|---|---|---|---|---|
| 1 | BFB | BFB | VX044710.D | 27 Jan 2025 08:47 | | JC/MD | Ok |
| 2 | VSTDCCC050 | VSTDCCC050 | VX044711.D | 27 Jan 2025 10:08 | V13516 | JC/MD | Ok,M |
| 3 | VX0127MBL01 | VX0127MBL01 | VX044712.D | 27 Jan 2025 10:38 | | JC/MD | Ok |
| 4 | VX0127WBL01 | VX0127WBL01 | VX044713.D | 27 Jan 2025 11:01 | | JC/MD | Ok |
| 5 | VX0127WBS01 | VX0127WBS01 | VX044714.D | 27 Jan 2025 11:24 | | JC/MD | Ok,M |
| 6 | VX0127WBSD01 | VX0127WBSD01 | VX044715.D | 27 Jan 2025 11:52 | | JC/MD | Ok,M |
| 7 | Q1173-06 | VPB192-HYD-2025012 | VX044716.D | 27 Jan 2025 12:15 | vial A pH<2 | JC/MD | Ok |
| 8 | Q1173-01 | BP-VPB-192-TB-20250 | VX044717.D | 27 Jan 2025 12:38 | vial A pH<2 | JC/MD | Ok |
| 9 | Q1173-02 | BP-VPB-192-GW-60-62 | VX044718.D | 27 Jan 2025 13:01 | vial A pH<2 | JC/MD | Ok |
| 10 | Q1173-03 | BP-VPB-192-GW-100-1 | VX044719.D | 27 Jan 2025 13:24 | vial A pH<2 | JC/MD | Ok |
| 11 | Q1173-04 | BP-VPB-192-GW-140-1 | VX044720.D | 27 Jan 2025 13:47 | vial A pH<2 | JC/MD | Ok |
| 12 | Q1173-05 | BP-VPB-192-GW-200-2 | VX044721.D | 27 Jan 2025 14:09 | vial A pH<2 | JC/MD | Ok |
| 13 | PB166212TB | PB166212TB | VX044722.D | 27 Jan 2025 14:32 | | JC/MD | Ok |
| 14 | PB166212ZHE#01 | PB166212ZHE#01 | VX044723.D | 27 Jan 2025 14:55 | | JC/MD | Ok |
| 15 | PB166212ZHE#02 | PB166212ZHE#02 | VX044724.D | 27 Jan 2025 15:18 | | JC/MD | Ok |
| 16 | PB166212ZHE#03 | PB166212ZHE#03 | VX044725.D | 27 Jan 2025 15:42 | | JC/MD | Ok |
| 17 | Q1169-02 | ARS20-0006 | VX044726.D | 27 Jan 2025 16:04 | vial A pH#5.0 | JC/MD | Ok |
| 18 | Q1169-04 | REGULATOR-BUILDIN | VX044727.D | 27 Jan 2025 16:28 | vial A pH#5.0 | JC/MD | Ok |

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**Instrument ID:** MSVOA_X

## Daily Analysis Runlog For Sequence/QCBatch ID # VX012725

| | | | | | |
|---|---|---|---|---|---|
| Review By | John Carlone | Review On | 1/28/2025 10:02:21 AM | | |
| Supervise By | Mahesh Dadoda | Supervise On | 1/28/2025 2:28:05 PM | | |
| SubDirectory | VX012725 | HP Acquire Method | | HP Processing Method | 82X011525W.M |

| STD. NAME | STD REF.# |
|---|---|
| Tune/Reschk | VP132695 |
| Initial Calibration Stds | |
| CCC | VP132696,VP132697 |
| Internal Standard/PEM | |
| ICV/I.BLK | |
| Surrogate Standard | |
| MS/MSD Standard | |
| LCS Standard | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 19 | Q1169-06 | SPILL-SITE | VX044728.D | 27 Jan 2025 16:51 | vial A pH#5.0 | JC/MD | Ok |
| 20 | IBLK | IBLK | VX044729.D | 27 Jan 2025 17:14 | | JC/MD | Ok |
| 21 | Q1180-01 | Storage-Blank-SOIL-RE | VX044730.D | 27 Jan 2025 17:37 | vial A pH<2 | JC/MD | Ok |
| 22 | Q1180-02 | Storage-Blank-WATER- | VX044731.D | 27 Jan 2025 18:00 | vial A pH<2 | JC/MD | Ok |
| 23 | Q1180-03 | Storage-Blank-WATER- | VX044732.D | 27 Jan 2025 18:23 | vial A pH<2 | JC/MD | Ok |
| 24 | Q1180-04 | Storage-Blank-SAMPLE | VX044733.D | 27 Jan 2025 18:46 | Surrogate Fail | JC/MD | ReRun |
| 25 | VSTDCCC050 | VSTDCCC050EC | VX044734.D | 27 Jan 2025 19:09 | | JC/MD | Ok,M |

M : Manual Integration

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# Prep Standard - Chemical Standard Summary

**Order ID :** Q1173

**Test :** VOCMS Group1

**Prepbatch ID :**

**Sequence ID/Qc Batch ID:** VX012725,

**Standard ID :**
VP130430,VP131746,VP131767,VP132035,VP132096,VP132468,VP132613,VP132695,VP132696,VP132697,

**Chemical ID :**
V13391,V13446,V13457,V13460,V13465,V13466,V13707,V14145,V14154,V14175,V14176,V14289,V14433,V14439,V14521,V14522,V14614,V14624,V14627,V14630,V14631,V14632,V14633,V14722,V14723,V14724,V14754,V14756,V14801,V14814,V14830,V14831,V14832,W3112,

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 617 | 8260 Surrogate, 400PPM | VP130430 | 09/20/2024 | 02/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 09/26/2024 |

**FROM** 0.40000ml of V13707 + 24.60000ml of V14145 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 247 | 8260 Internal Standard, 250PPM | VP131746 | 11/22/2024 | 05/18/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 11/23/2024 |

**FROM** 0.50000ml of V14289 + 49.50000ml of V14154 = 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 |
|---|---|---|---|---|---|---|---|---|
| 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 |
|---|---|---|---|---|---|---|---|---|
| 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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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 719 | 8260 Working STD (BCM)-First source, 400PPM | VP132096 | 12/12/2024 | 06/10/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 12/19/2024 |

**FROM** 1.00000ml of V13465 + 1.00000ml of V13466 + 1.50000ml of V13457 + 1.50000ml of V13460 + 20.00000ml of V14614 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 51 | 8260 Working STD (Acrolein) -first source, 800PPM | VP132468 | 01/08/2025 | 02/07/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 01/17/2025 |

**FROM** 1.00000ml of V14832 + 1.50000ml of V14830 + 1.50000ml of V14831 + 21.00000ml of V14627 = 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 |
|---|---|---|---|---|---|---|---|---|
| 257 | 8260 Calibration Working STD Mix-First source, 160PPM | VP132613 | 01/20/2025 | 02/28/2025 | Semsettin Yesilyurt | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 0.40000ml of V13446 + 1.00000ml of V14175 + 1.00000ml of V14176 + 1.00000ml of V14433 + 1.00000ml of V14439 + 1.00000ml of V14521 + 1.00000ml of V14522 + 1.00000ml of V14722 + 1.00000ml of V14754 + 1.00000ml of V14756 + 1.00000ml of V14801 + 1.00000ml of V14814 + 1.50000ml of V14723 + 1.50000ml of V14724 + 10.60000ml of V14624 = Final Quantity: 25.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 589 | BFB TUNE CHECK | VP132695 | 01/27/2025 | 01/28/2025 | John Carlone | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 39.98400ml of W3112 + 0.01600ml of VP131767 = Final Quantity: 40.000 ml

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# VOC STANDARD PREPARATION LOG

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP132696 | 01/27/2025 | 01/28/2025 | John Carlone | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132468 + 0.01250ml of VP132613 = Final Quantity: 40.000 ml

| Recipe ID | NAME | NO. | Prep Date | Expiration Date | Prepared By | ScaleID | PipetteID | Supervised By |
|---|---|---|---|---|---|---|---|---|
| 620 | 50 PPB CCC, 8260-Water | VP132697 | 01/27/2025 | 01/28/2025 | John Carlone | None | None | Mahesh Dadoda 01/29/2025 |

**FROM** 39.94450ml of W3112 + 0.00500ml of VP130430 + 0.00500ml of VP132096 + 0.00800ml of VP131746 + 0.01250ml of VP132035 + 0.01250ml of VP132468 + 0.01250ml of VP132613 = Final Quantity: 40.000 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 # |
|---|---|---|---|---|---|---|
| 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 | 01/10/2025 / SAM | 01/23/2023 / SAM | V13446 |

| 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 | V13457 |

| 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 | V13460 |

| 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 # |
|---|---|---|---|---|---|---|
| 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 # |
|---|---|---|---|---|---|---|
| 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 | 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 | 07/10/2025 | 01/10/2025 / SAM | 02/20/2024 / SAM | V14175 |

| 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 | 07/10/2025 | 01/10/2025 / SAM | 02/20/2024 / SAM | V14176 |

| 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 |

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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 | 07/10/2025 | 01/10/2025 / SAM | 08/15/2024 / SAM | V14433 |

| 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 | 07/10/2025 | 01/10/2025 / SAM | 08/15/2024 / SAM | V14439 |

| 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) | 091724 | 07/10/2025 | 01/10/2025 / SAM | 09/18/2024 / SAM | V14521 |

| 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) | 091724 | 07/10/2025 | 01/10/2025 / SAM | 09/18/2024 / SAM | V14522 |

| 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 # |
|---|---|---|---|---|---|---|
| Seidler Chemical | BA9077-02 / Methanol, Purge/Trap (cs=6x1L) | 23I0762004 | 07/13/2025 | 01/13/2025 / SAM | 11/26/2024 / SAM | V14624 |

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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) | 23I0762004 | 07/06/2025 | 01/06/2025 / SAM | 11/26/2024 / SAM | V14627 |

| 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 |

| 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 # |
|---|---|---|---|---|---|---|
| Restek | 30006 / VOA Mix, CLP method Calibration Std #1 ketones 5000uq/ml, PTM, 1ml | A02110618 | 07/10/2025 | 01/10/2025 / SAM | 12/17/2024 / SAM | V14722 |

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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 | A02110618 | 07/10/2025 | 01/10/2025 / SAM | 12/17/2024 / SAM | V14723 |

| 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 | A02110618 | 07/10/2025 | 01/10/2025 / SAM | 12/17/2024 / SAM | V14724 |

| 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 | A0216826 | 05/31/2031 | 01/10/2025 / SAM | 12/17/2024 / SAM | V14754 |

| 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 | A0216826 | 07/10/2025 | 01/10/2025 / SAM | 12/17/2024 / SAM | V14756 |

| 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 | A0220563 | 06/30/2026 | 01/10/2025 / SAM | 01/08/2025 / SAM | V14801 |

| 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 | A0220471 | 07/10/2025 | 01/10/2025 / SAM | 01/08/2025 / SAM | V14814 |

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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. | 91980 / Acrolin Std (Min = 5) | 010725 | 02/07/2025 | 01/08/2025 / SAM | 01/08/2025 / SAM | V14830 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 010725 | 02/07/2025 | 01/08/2025 / SAM | 01/08/2025 / SAM | V14831 |

| Supplier | ItemCode / ItemName | Lot # | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|---|---|---|---|---|---|---|
| Absolute Standards, Inc. | 91980 / Acrolin Std (Min = 5) | 010725 | 02/07/2025 | 01/08/2025 / SAM | 01/08/2025 / SAM | V14832 |

| 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

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

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

Methanol
ULTRA RESI-ANALYZED
For Purge and Trap Analysis

12 Bottles

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***

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

Dec 01/08/25

5 vial

V14823-to V14827 V14829

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 010725
**Description:** Acrolein

**Expiration Date:** 020725
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 5000
**NIST Test ID#:** 6UTB

**Solvent(s):** Water **Lot#** 072324Q

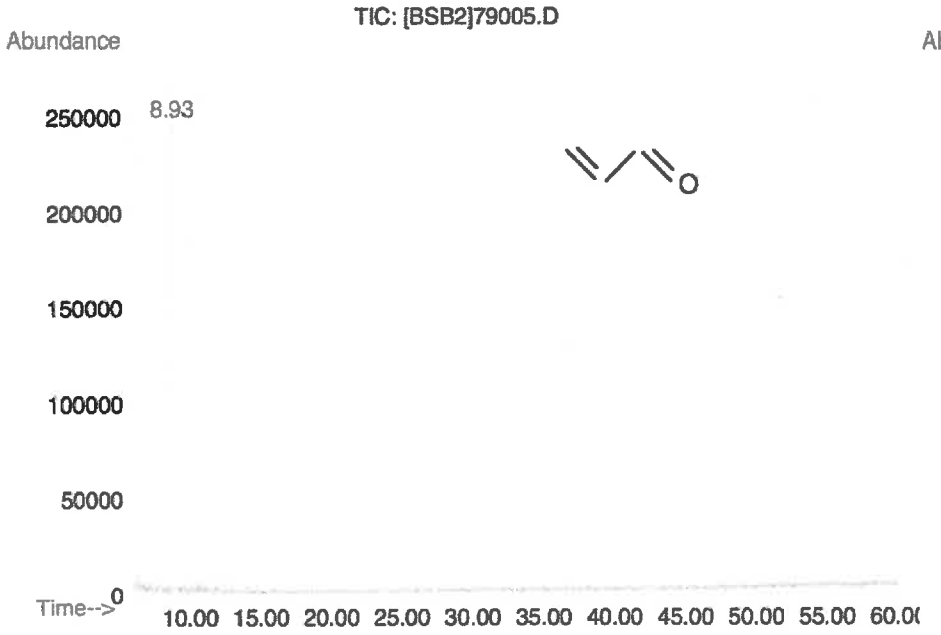
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

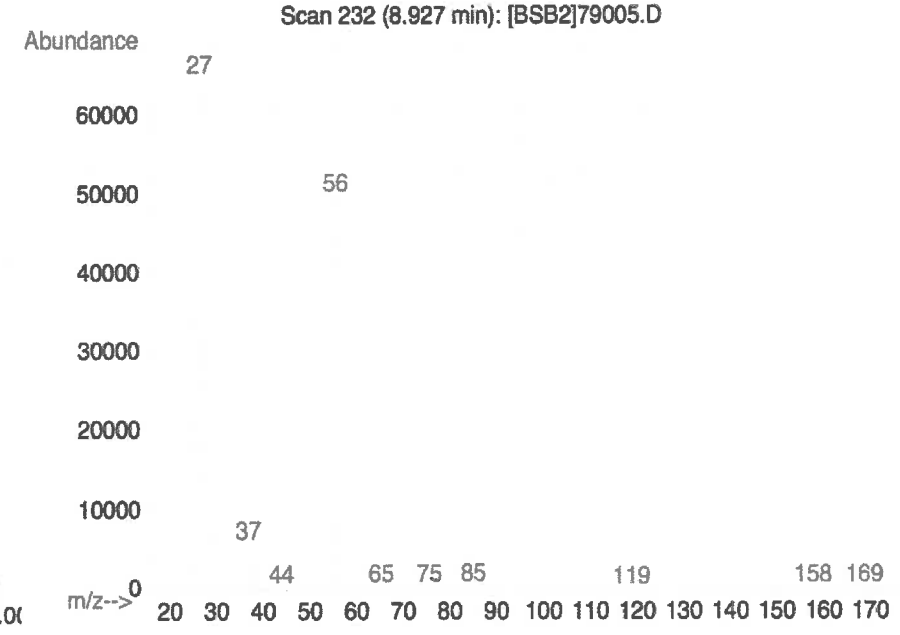
Weight(s) shown below were combined and diluted to (mL): 10.0

| | |
|---|---|
| | 010725 |
| Formulated By: Anthony Mahoney | DATE |
| | 010725 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | 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 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05178 | 5011.8 | 52.6 | 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 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 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***

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Dec 01/08/25

5 vial

V14823-to V14827 V14829

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
**Lot Number:** 010725
**Description:** Acrolein

**Expiration Date:** 020725
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 5000
**NIST Test ID#:** 6UTB

**Solvent(s):** Water **Lot#** 072324Q

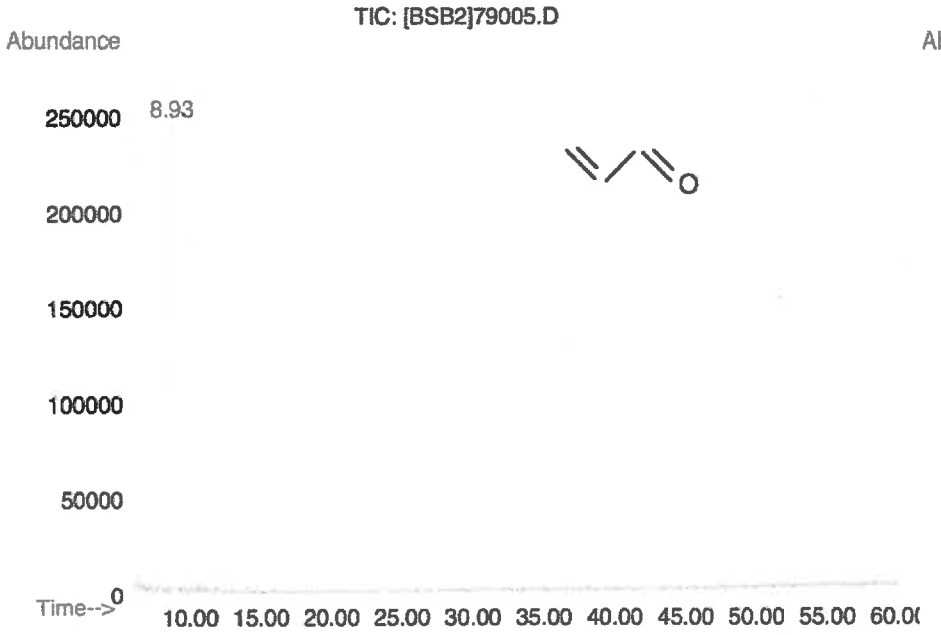
5E-05 Balance Uncertainty
0.001 Flask Uncertainty

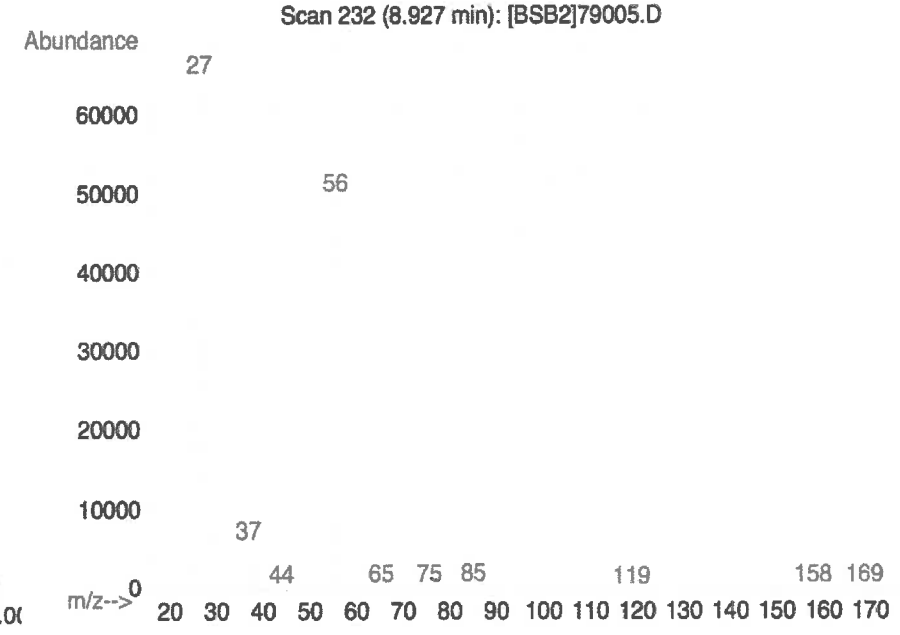
Weight(s) shown below were combined and diluted to (mL): 10.0

| | |
|---|---|
| | 010725 |
| Formulated By: Anthony Mahoney | DATE |
| | 010725 |
| Reviewed By: Pedro L. Rentas | DATE |

| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | 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 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05178 | 5011.8 | 52.6 | 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.
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- Standards are certifed (+/-) 0.5% of the stated value, unless otherwise stated.
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**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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V14823-to V14827 V14829

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**Part Number:** 91980
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**Description:** Acrolein

**Expiration Date:** 020725
**Recommended Storage:** Refrigerate (4 °C)
**Nominal Concentration (µg/mL):** 5000
**NIST Test ID#:** 6UTB

**Solvent(s):** Water **Lot#** 072324Q

5E-05 Balance Uncertainty
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Weight(s) shown below were combined and diluted to (mL): 10.0

| | |
|---|---|
| | 010725 |
| Formulated By: Anthony Mahoney | DATE |
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| Compound | RM# | Lot Number | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | 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 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05178 | 5011.8 | 52.6 | 107-02-8 | 0.1 ppm | orl-rat 46mg/kg |

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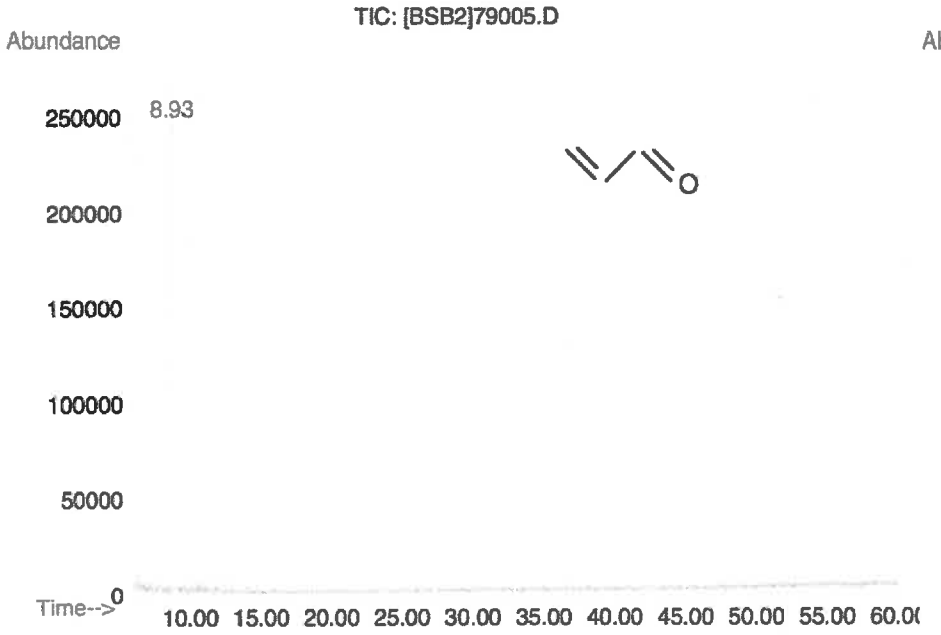


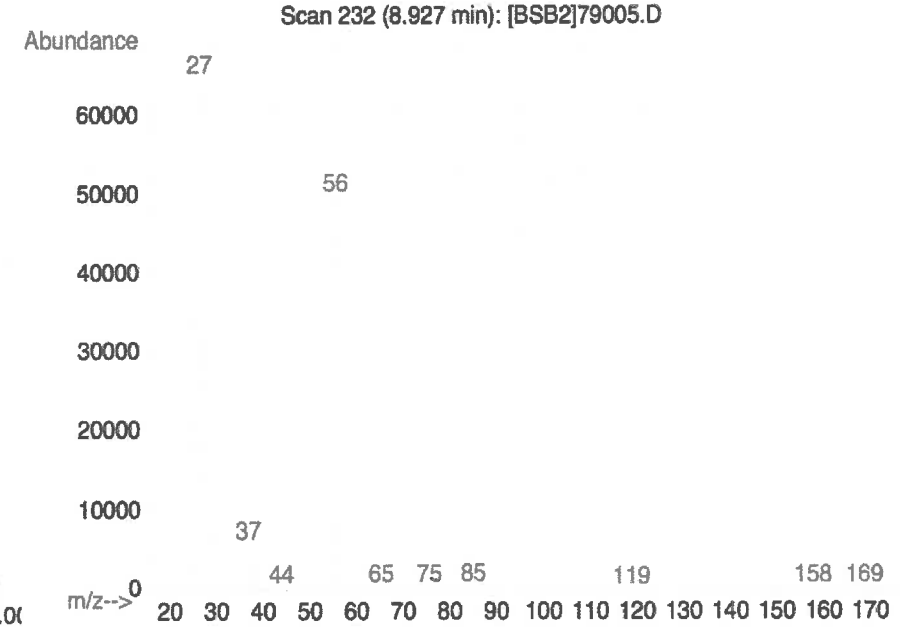


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**Safety Data Sheet (SDS)** GHS/OSHA Compliant

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| | Hamden CT, 06514 | Date Prepared/Revised | January 1, 2024 |

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| | | | |
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| | | **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

| | |
|---|---|
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| | |
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## Section VI. ACCIDENTAL RELEASE MEASURES

| | |
|---|---|
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| 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.

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): Lot#
Methanol 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 |

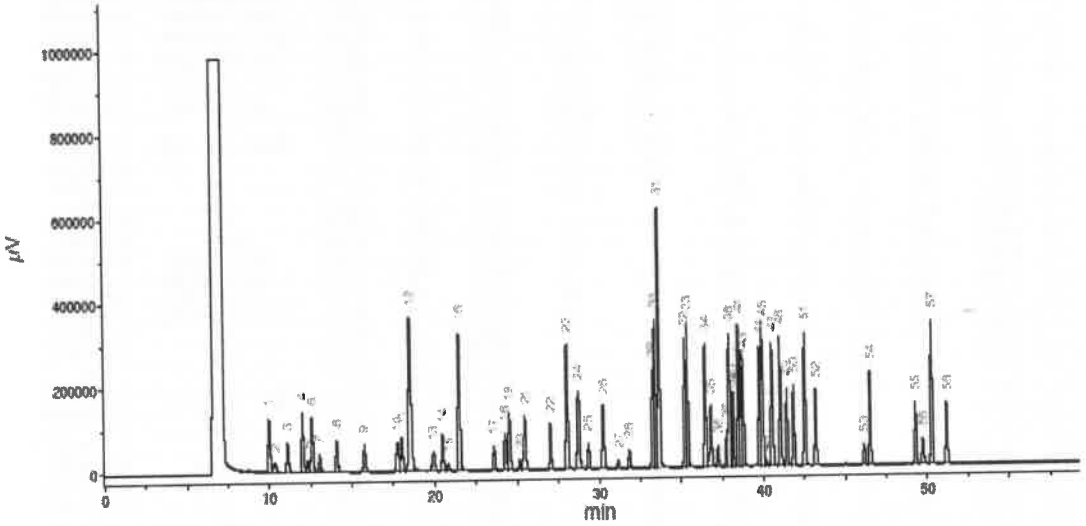
| Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent 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) | IK18CAS000( | 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 | 40003.8 | 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-Dibromoethene | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.88 |
| 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 | 46.46 |
| 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): Lot#
Methanol 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 |

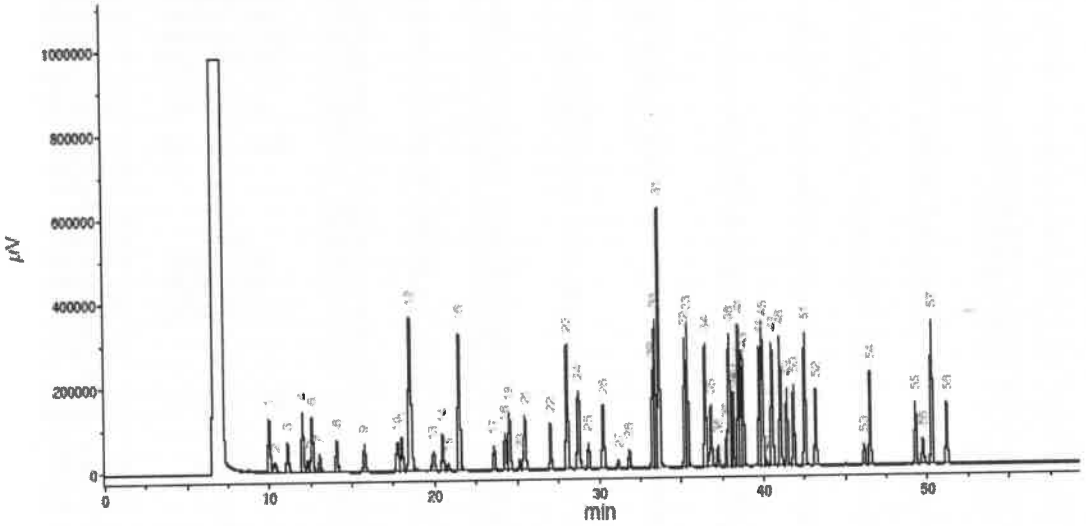
| Compound | (RM#) Part Number | Lot Number | Dil. Factor | Initial Vol. (mL) | Initial Conc.(ug/mL) | Nominal Conc (µg/mL) | Purity (%) | Purity Uncertainty | Uncertainty Pipette (mL) | Target Weight(g) | Actual Weight(g) | Actual Conc (µg/mL) | Expanded Uncertainty (+/-) (µg/mL) | SDS Information (Solvent 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) | IK18CAS000( | 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 | 40003.8 | 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-Dibromoethene | 31.84 |
| 29 | Chlorobenzene | 33.26 |
| 30 | Ethylbenzene/1,1,1,2-Tetrachloroethane | 33.40 |
| 31 | m-Xylene/p-Xylene | 33.88 |
| 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 | 46.46 |
| 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***

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** **Lot#**
Water 072324Q

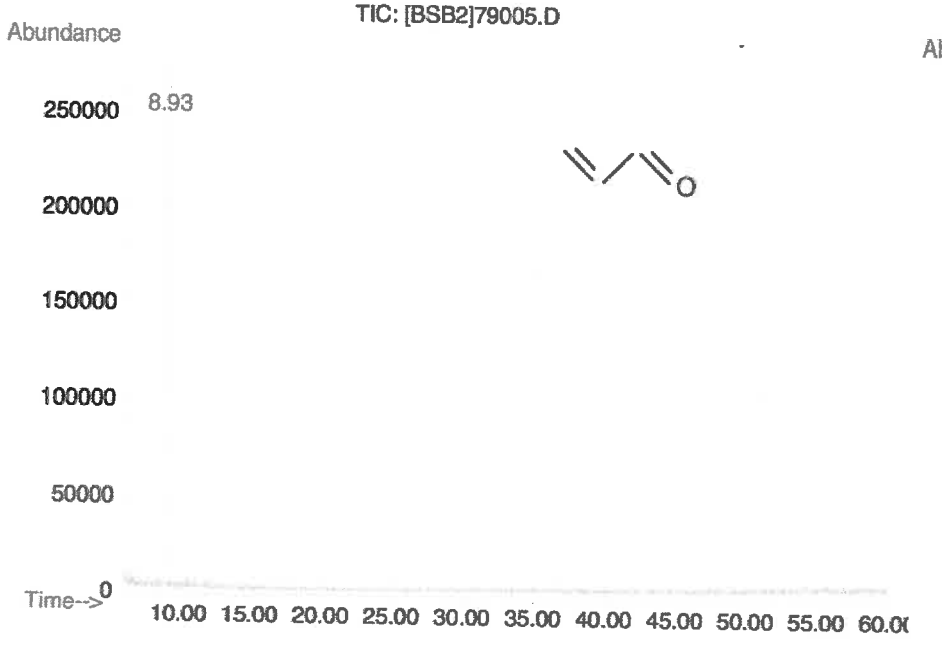
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

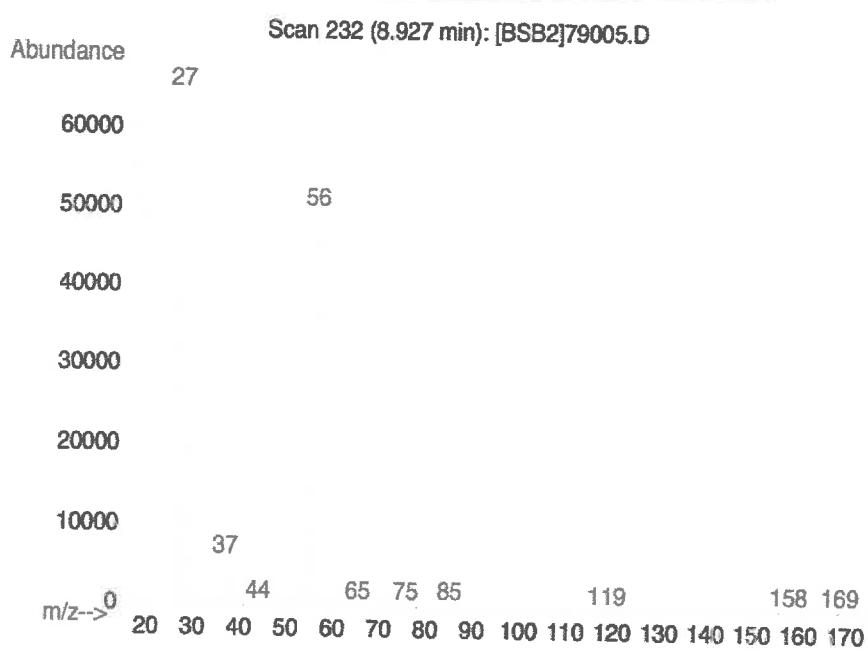
Formulated By: Justin Dippold 091424 DATE

Reviewed By: Pedro L. Rentas 091424 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. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 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.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

Rec 09/16/24 2 Vials

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
https://Absolutestandards.com

## CERTIFIED WEIGHT REPORT

**Part Number:** 91980
Lot Number: 091424
Description: Acrolein

Expiration Date: 101424
Recommended Storage: Refrigerate (4 °C)
Nominal Concentration (µg/mL): 5000
NIST Test ID#: 6UTB

**Solvent(s):** **Lot#**
Water 072324Q

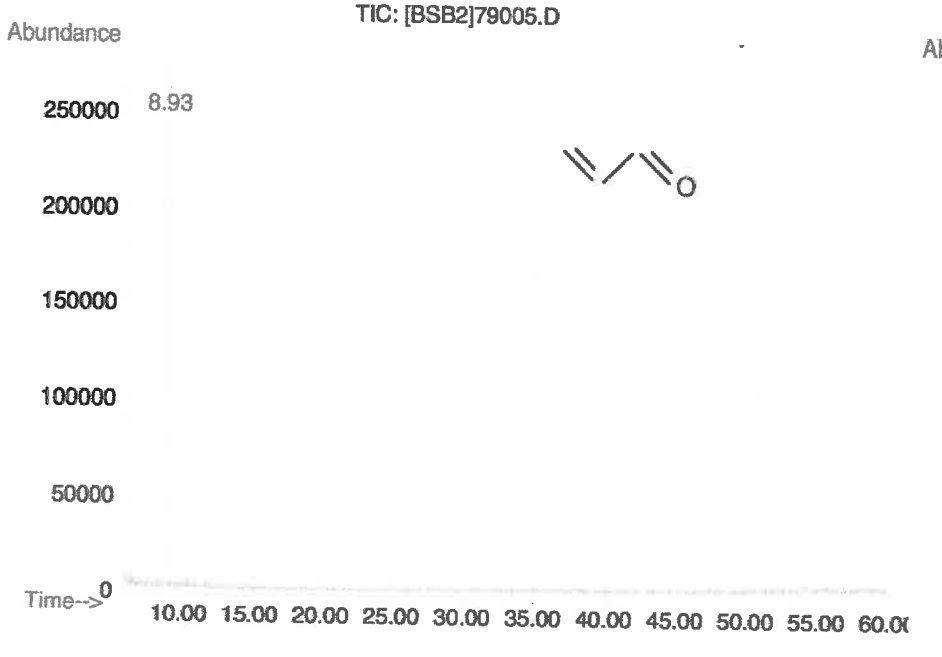
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 10.0 0.001 Flask Uncertainty

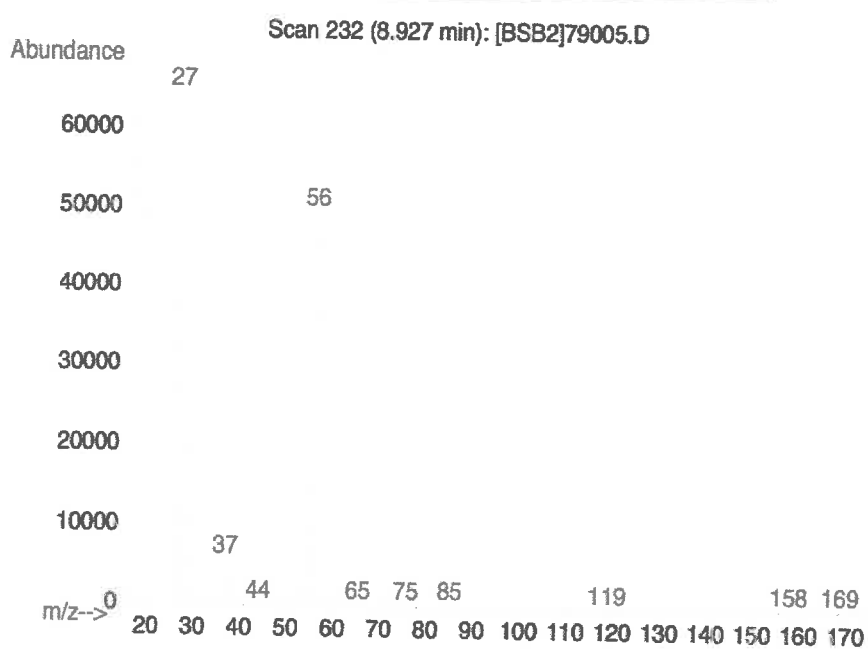
Formulated By: Justin Dippold 091424 DATE

Reviewed By: Pedro L. Rentas 091424 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. Acrolein | 5 | 103755V10F | 5000 | 97 | 0.5 | 0.05166 | 0.05175 | 5008.9 | 52.5 | 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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- All Standards, after opening ampule, should be stored with caps tight and under appropriate laboratory conditions.
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**Absolute Standards, Inc.**
800-368-1131
www.absolutestandards.com

***Certified Reference Material CRM***

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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

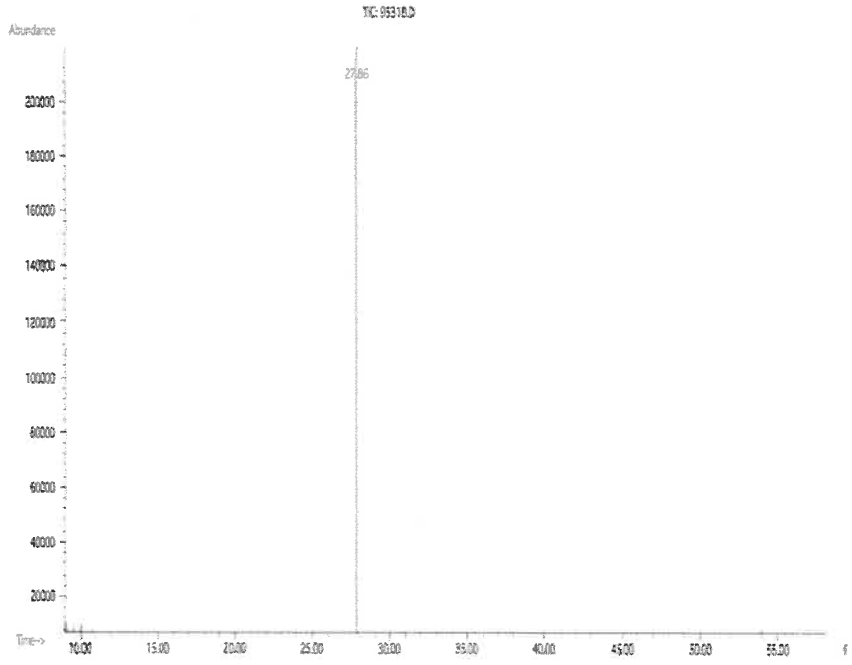
V14630 to V14649

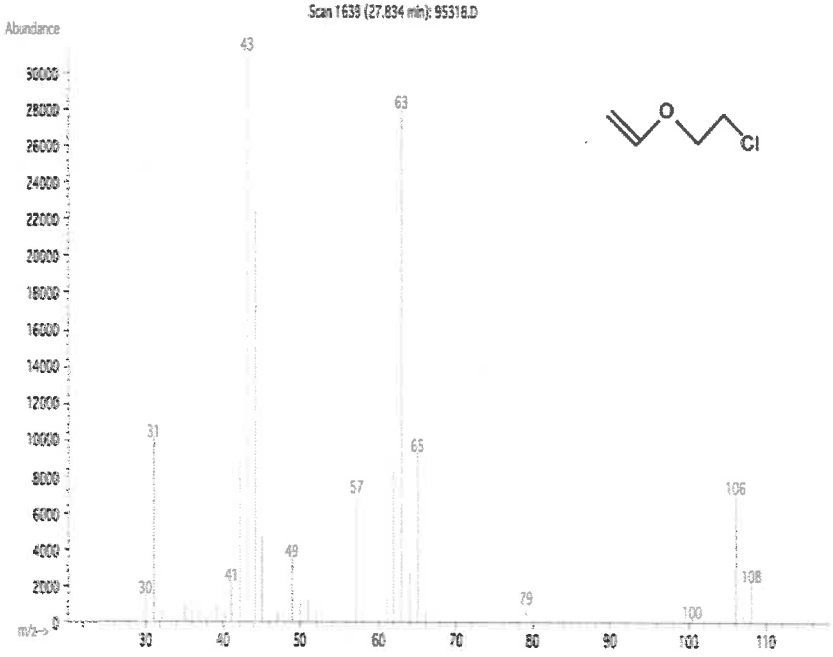
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| 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.







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- 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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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 Reference Material CRM***

Rec 12/6/24
20 vial

ANAB ISO 17034 Accredited
AR-1539 Certificate Number
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

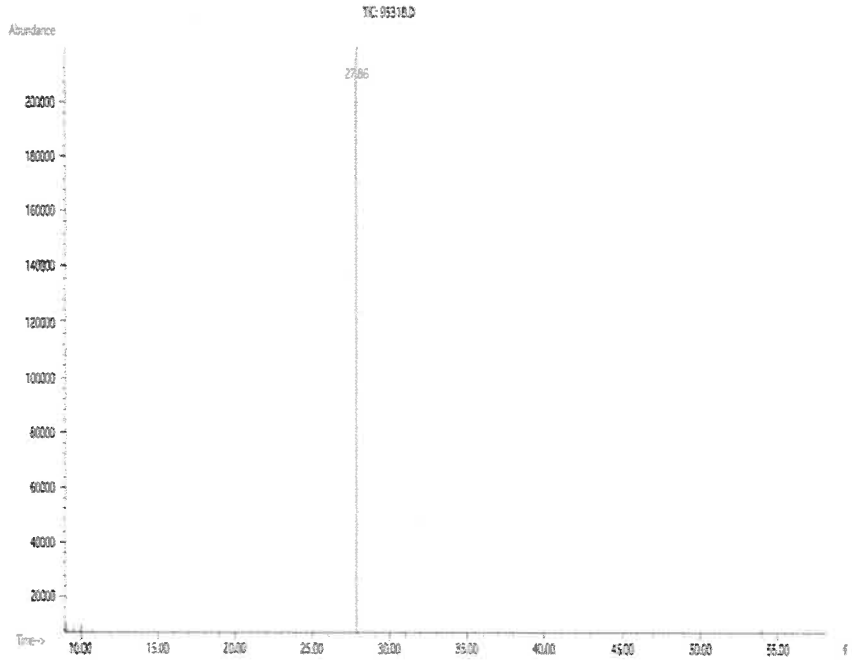
V14630 to V14649

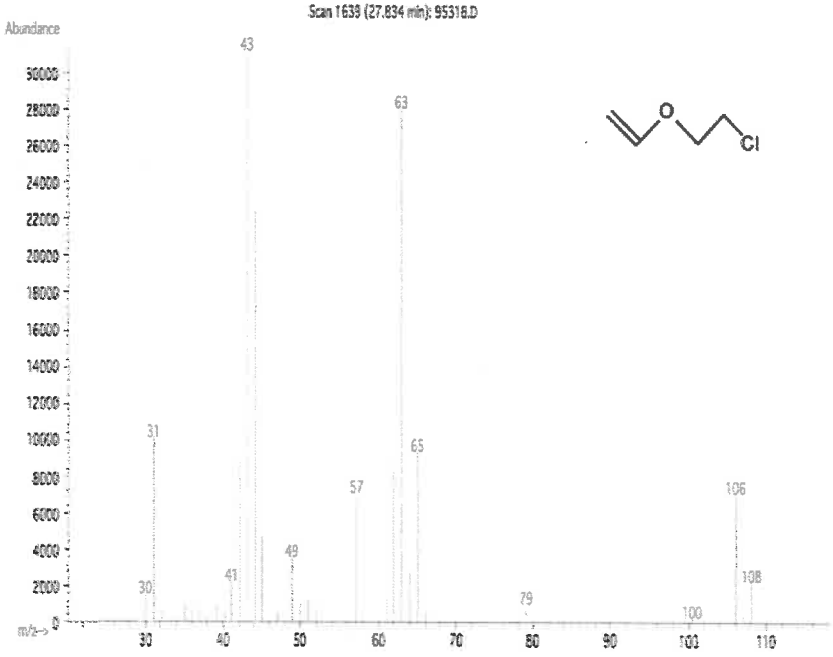
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| 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.
- 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

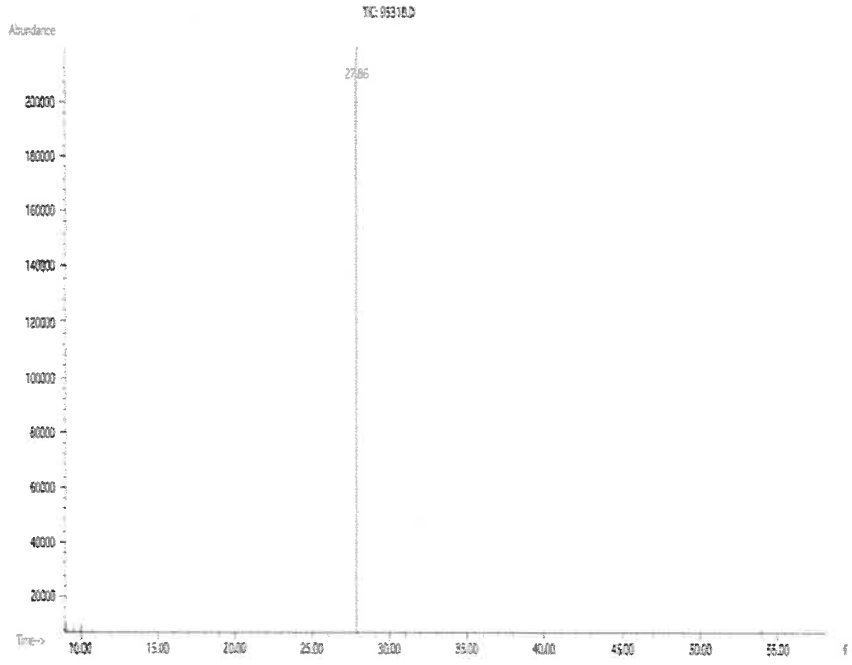
V14630 to V14649

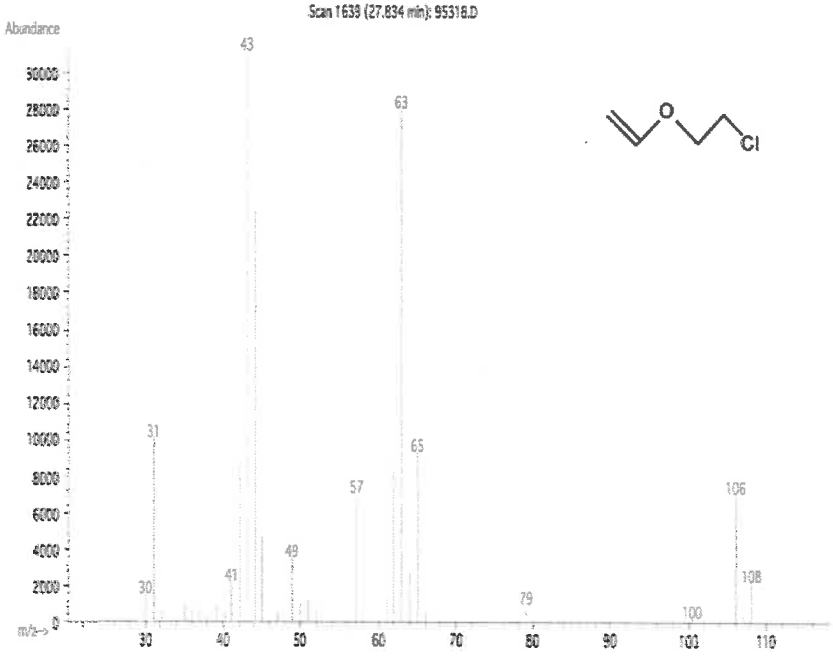
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| 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.
- 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

**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

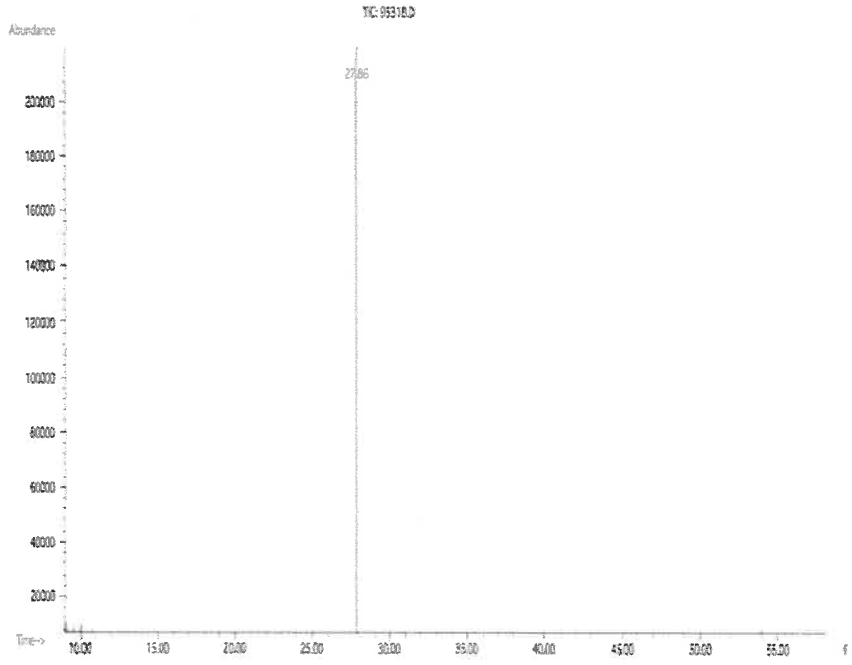
V14630 to V14649

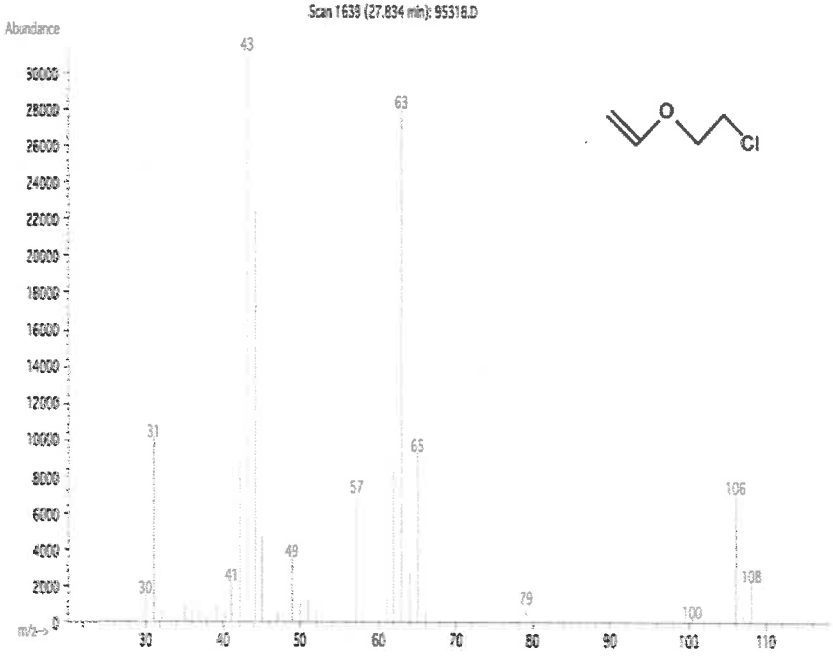
5E-05 Balance Uncertainty
Weight(s) shown below were combined and diluted to (mL): 50.0 0.001 Flask Uncertainty

| 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.







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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

# Certificate of Analysis

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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)

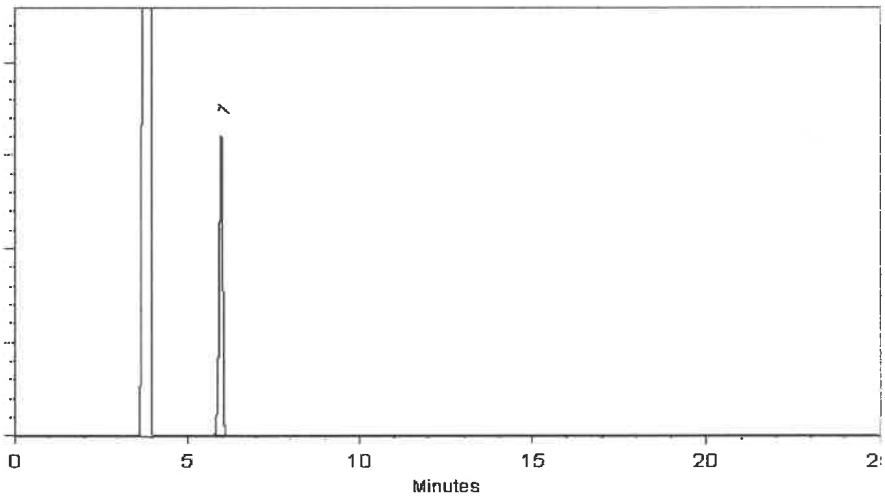
**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

**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.

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**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.)

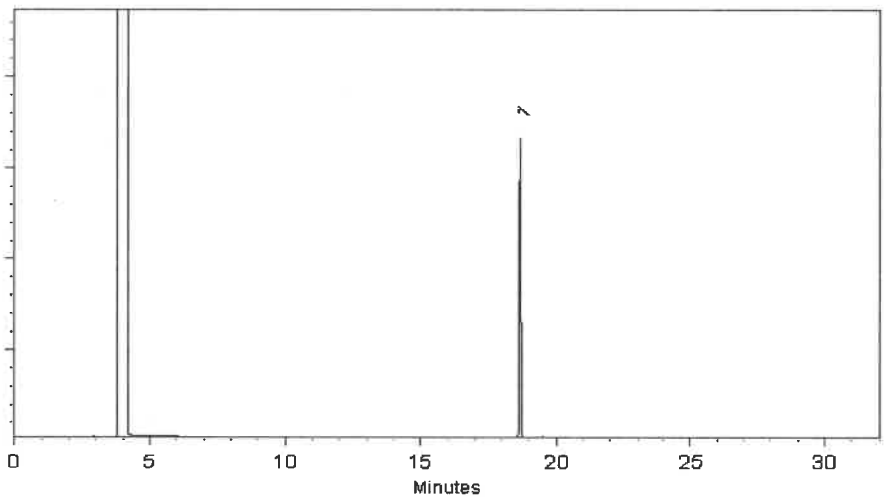
**Inj. Temp:**
200°C

**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.
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- 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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$$U_{combined\ uncertainty} = k\sqrt{u^2_{gravimetric} + u^2_{homogeneity} + u^2_{storage\ stability} + u^2_{shipping\ stability}}$$

  $k$ 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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**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.)

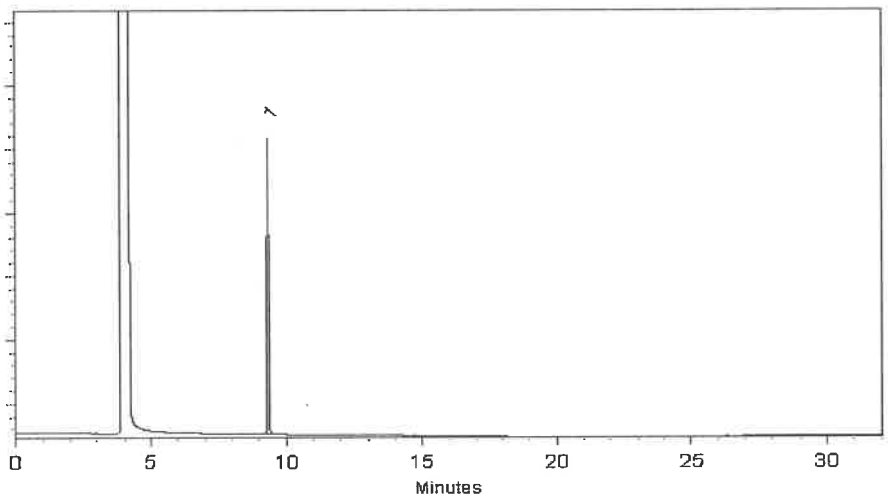
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl

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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:

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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:

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### Handling Notes:

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**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) |
|---|---|---|---|---|---|---|
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* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

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40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

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**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
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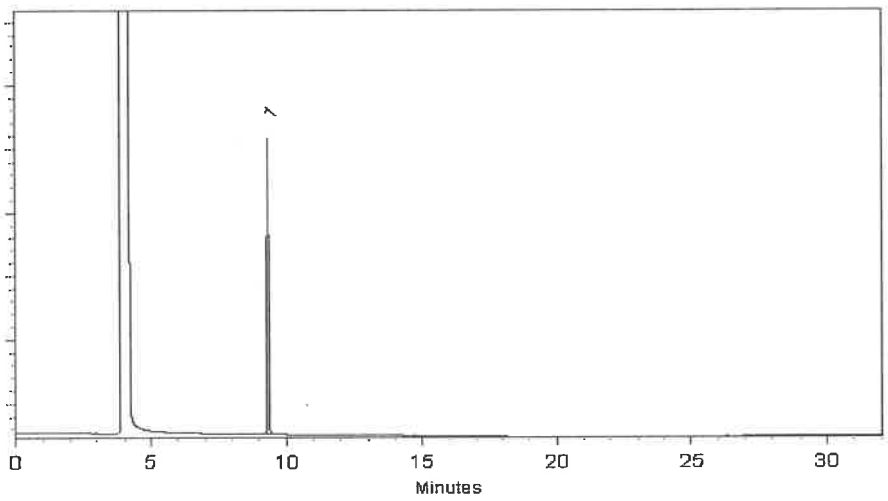
**Inj. Vol**
1µl

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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**

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Bromochloromethane 2000µg/mL, P&T Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

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**Ship:** Ambient

CERTIFIED VALUES

| Elution Order | Compound | CAS # | Lot # | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
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* 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.)

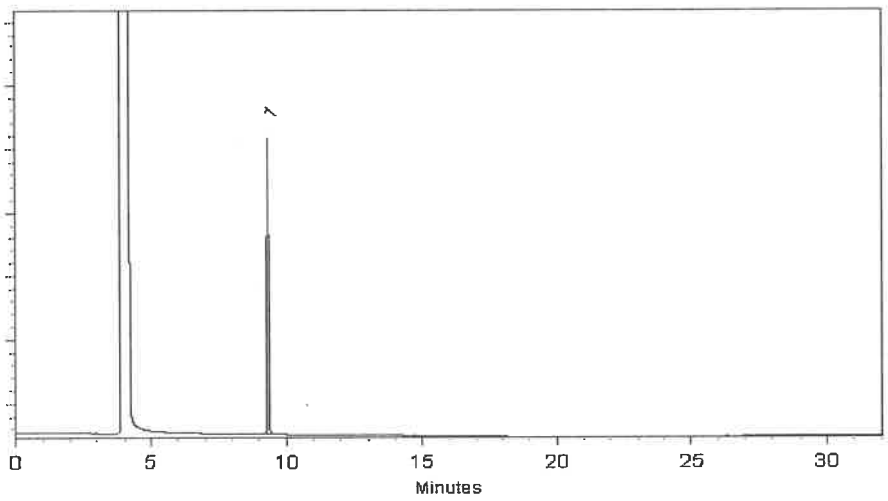
**Inj. Temp:**
200°C

**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

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**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

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105m x 0.53mm x 3.0µm
Rtx-502.2 (cat.#10910)

**Carrier Gas:**
hydrogen-constant pressure 11.0 psi.

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40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

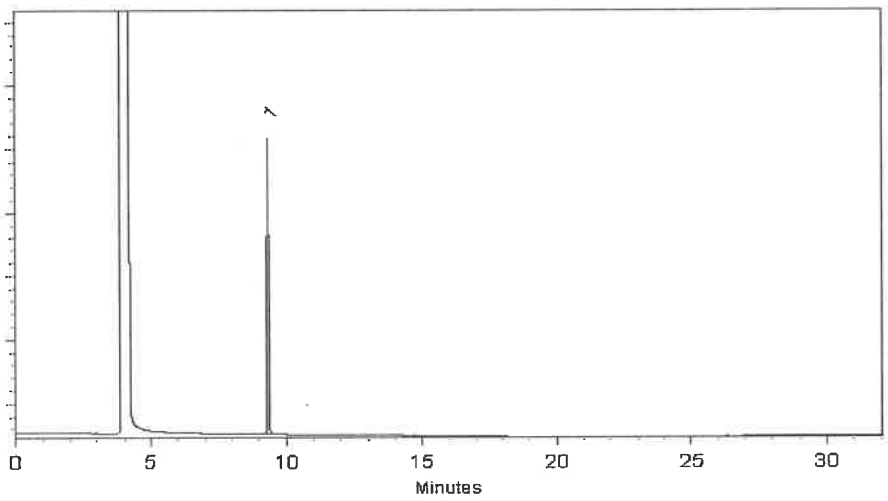
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl

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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.
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- 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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  $k$ is a coverage factor of 2, which gives a level of confidence of approximately 95%.
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### Manufacturing Notes:

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# Certificate of Analysis

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**FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.**

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**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

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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. :** 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.

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**Column:**
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Rtx-502.2 (cat.#10910)

**Carrier Gas:**
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**Temp. Program:**
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@ 8°C/min. (hold 5 min.)

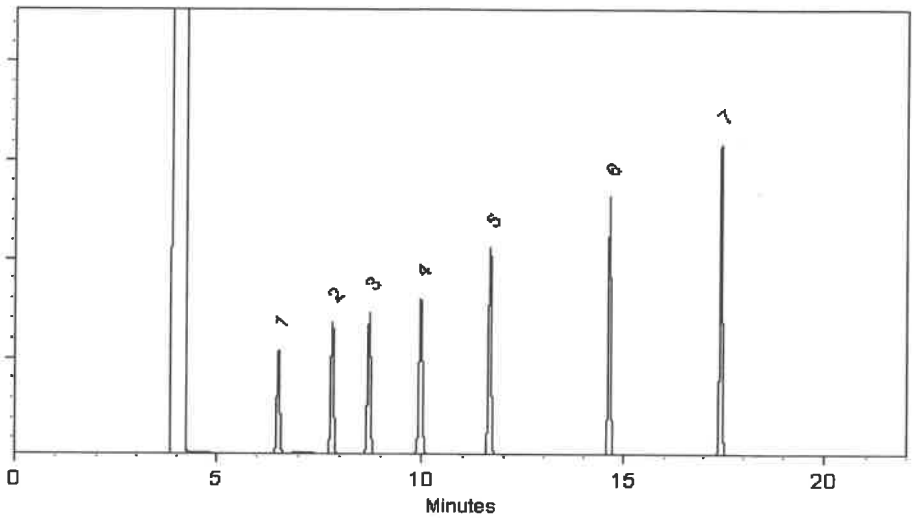
**Inj. Temp:**
200°C

**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
40 ml/min

**Inj. Vol**
1µl

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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:

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## Purity Notes:

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## Manufacturing Notes:

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**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 |
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**Solvent:** P&T Methanol
**CAS #** 67-56-1
**Purity** 99%

**Tech Tips:**

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Rtx-502.2 (cat.#10910)

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**Inj. Temp:**
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**Det. Temp:**
250°C

**Det. Type:**
FID

**Split Vent:**
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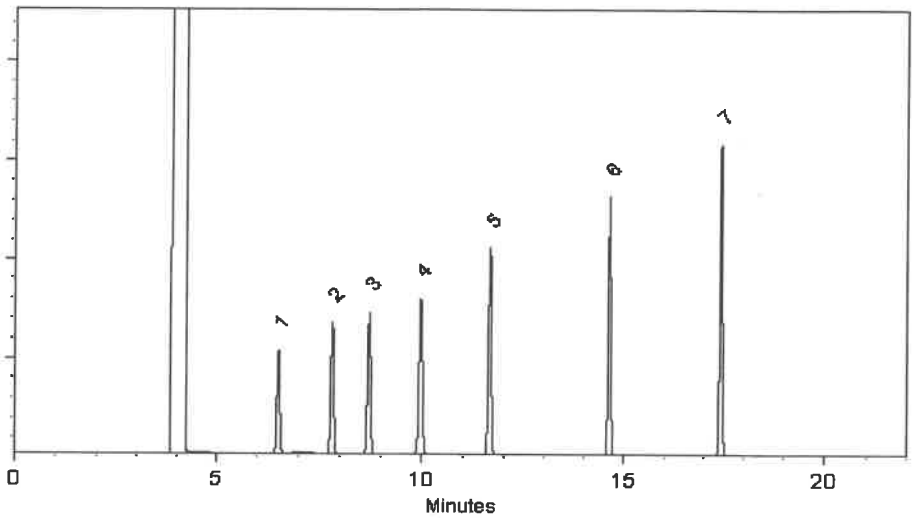
**Inj. Vol**
1µl

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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

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

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**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:

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- 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

30 V.4

# Certificate of Analysis

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V14697-to-14726

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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.:** A0210618

**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 :** July 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 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 µg/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 µg/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 µg/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 µg/mL | +/- 173.2261 |

* 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.)

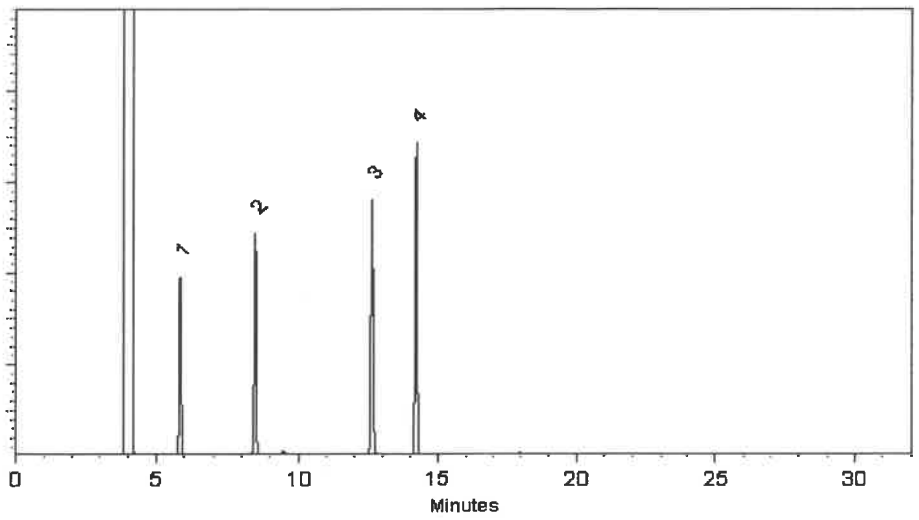
**Inj. Temp:**
200°C

**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.

Dakota Parson - Operations Technician I

**Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 24-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:

- 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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# Certificate of Analysis

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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.:** A0210618

**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 :** July 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 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 µg/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 µg/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 µg/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 µg/mL | +/- 173.2261 |

* 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.)

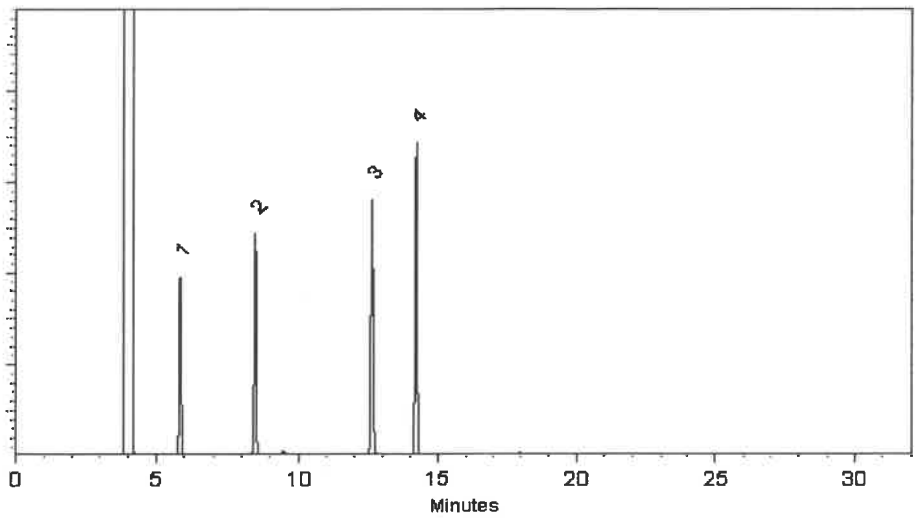
**Inj. Temp:**
200°C

**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.

Dakota Parson - Operations Technician I

**Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 24-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:

- 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

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# Certificate of Analysis

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V14697-to-14726

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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.:** A0210618

**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 :** July 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 | Acetone | 67-64-1 | SHBQ8504 | 99% | 5,014.8 µg/mL | +/- 173.2883 |
| 2 | 2-Butanone (MEK) | 78-93-3 | SHBQ4704 | 99% | 5,012.4 µg/mL | +/- 173.2054 |
| 3 | 4-Methyl-2-pentanone (MIBK) | 108-10-1 | SHBP9200 | 99% | 5,011.6 µg/mL | +/- 173.1777 |
| 4 | 2-Hexanone | 591-78-6 | MKCQ6663 | 99% | 5,013.0 µg/mL | +/- 173.2261 |

* 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.)

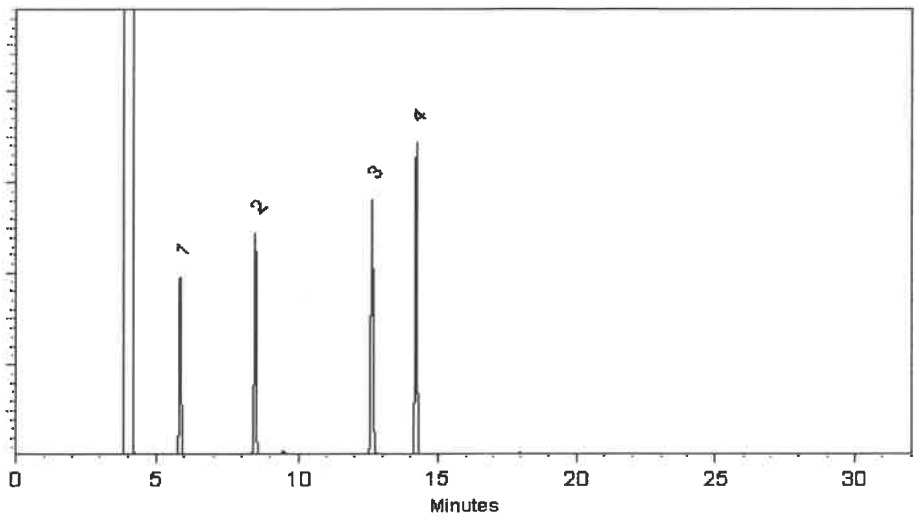
**Inj. Temp:**
200°C

**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.

Dakota Parson - Operations Technician I

**Date Mixed:** 22-Apr-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 24-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:

- 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

30 Vial

# Certificate of Analysis

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V14727 to
V14756

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Certificate #3222.01

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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.:** A0216826

**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 :** May 31, 2031 **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 | 00022922 | 99% | 2,000.9 µg/mL | +/- 112.4144 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | 00022694 | 99% | 2,000.7 µg/mL | +/- 112.3998 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,000.3 µg/mL | +/- 112.3779 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 00017022 | 99% | 2,001.8 µg/mL | +/- 112.4650 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.1 µg/mL | +/- 112.3700 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCJ8658 | 99% | 2,000.7 µg/mL | +/- 112.3992 |

* 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.

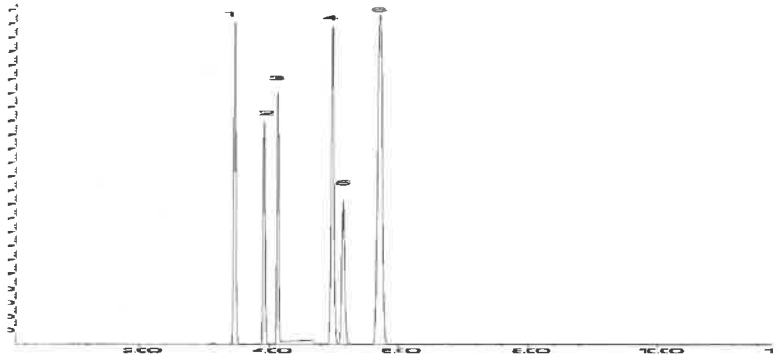
**Inj. Temp:**
200°C

**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:** 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 04-Oct-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:

- 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

30 Vial

# Certificate of Analysis

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V14727 to
V14756

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Certificate #3222.01

ACCREDITED
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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.:** A0216826

**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 :** May 31, 2031 **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 | 00022922 | 99% | 2,000.9 µg/mL | +/- 112.4144 |
| 2 | Chloromethane (methyl chloride) | 74-87-3 | 00022694 | 99% | 2,000.7 µg/mL | +/- 112.3998 |
| 3 | Vinyl chloride | 75-01-4 | 00015559 | 99% | 2,000.3 µg/mL | +/- 112.3779 |
| 4 | Bromomethane (methyl bromide) | 74-83-9 | 00017022 | 99% | 2,001.8 µg/mL | +/- 112.4650 |
| 5 | Chloroethane (ethyl chloride) | 75-00-3 | 107-401039114-1 | 99% | 2,000.1 µg/mL | +/- 112.3700 |
| 6 | Trichlorofluoromethane (CFC-11) | 75-69-4 | MKCJ8658 | 99% | 2,000.7 µg/mL | +/- 112.3992 |

* 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.

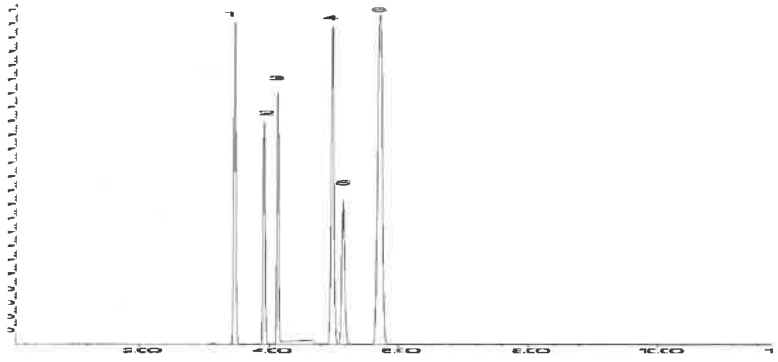
**Inj. Temp:**
200°C

**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:** 23-Sep-2024 **Balance Serial #** B707717271

Jennifer Pollino - Operations Tech III - ARM QC

**Date Passed:** 04-Oct-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:

- 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.

Zoviny Rec 01/08/21

RESTEK
110 Benner Circle
Bellefonte, PA 16823-8812
Tel: 1-814-353-1300
Fax: 1-814-353-1309

www.restek.com

CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

*chromatographic*

V14803 - V14822

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. :** 555408-SL **Lot No.:** A0220471

**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, 2026 **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 | RD240423RSR | 99% | 8,066.0 µg/mL | +/- 278.7979 |

* 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.)

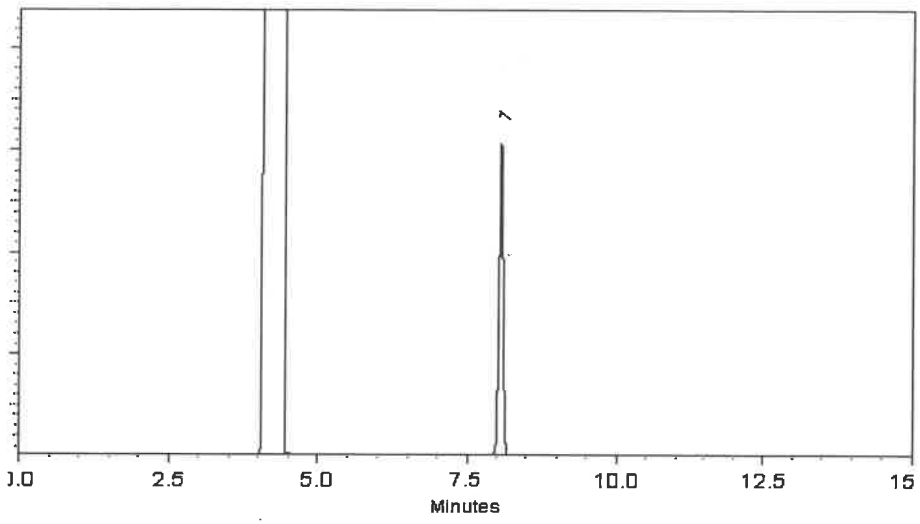
**Inj. Temp:**
200°C

**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.

Ethan Winiarski - Operations Tech I

**Date Mixed:** 24-Dec-2024 **Balance Serial #** 1127510105

Dillan Murphy - Operations Technician I

**Date Passed:** 02-Jan-2025

REVIEWED

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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10 vial Rec 01/08/25

RESTEK
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www.restek.com

CERTIFIED REFERENCE MATERIAL

ISO 17034 Accredited Reference Material Producer Certificate #3222.01

ISO/IEC 17025 Accredited Testing Laboratory Certificate #3222.02

# Certificate of Analysis

*chromatographic*

V14793 to 14802

**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-FL **Lot No.:** A0220563

**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, 2026 **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 | RD240423RSR | 99% | 8,060.0 µg/mL | +/- 278.5905 |

* 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.

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hydrogen-constant pressure 11.0 psi.

**Temp. Program:**
40°C (hold 2 min.) to 240°C
@ 8°C/min. (hold 5 min.)

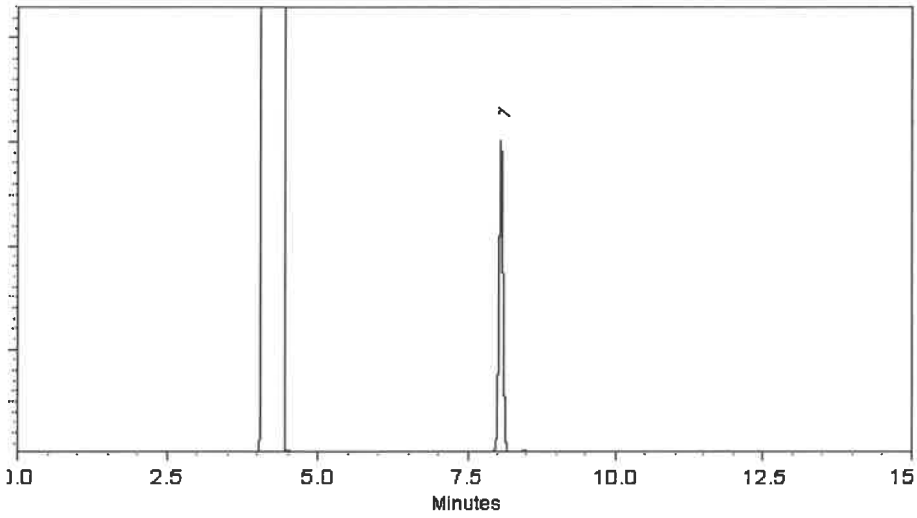
**Inj. Temp:**
200°C

**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:** 30-Dec-2024 **Balance Serial #** B345965662

Dillan Murphy - Operations Technician I

**Date Passed:** 02-Jan-2025

REVIEWED

**Manufactured under Restek's ISO 9001:2015 Registered Quality System Certificate #FM 80397**

# General Certified Reference Material Notes

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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.

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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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

# 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: Q1173

COC Number:

## CLIENT INFORMATION

COMPANY: Tetra Tech
ADDRESS: 4433 Corporation Lane Suite 300
CITY: Virginia Beach STATE: VA ZIP: 23462
ATTENTION: Ernie Wu
PHONE: 757-466-4901 FAX: 757-461-4148

## PROJECT INFORMATION

PROJECT NAME: NWIRP Bethpage
PROJECT #: 112G08005-WE13 LOCATION: VPB-192
PROJECT MANAGER: Ernie Wu
E-MAIL: ernie.wu@tetratech.com
PHONE: 757-466-4901 FAX: 757-461-4148

## BILLING INFORMATION

BILL TO: SEE CONTRACT PO#
ADDRESS:
CITY: STATE: ZIP:
ATTENTION: PHONE:

## DATA TURNAROUND INFORMATION

FAX: 2-6-10 DAYS*
HARD COPY: 2-6-10 DAYS*
EDD 2-6-10 DAYS*
* TO BE APPROVED BY CHEMTECH
STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS

## DATA DELIVERABLE INFORMATION

- ☐ RESULTS 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

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
|---|---|---|---|---|---|---|---|---|
| VOC(SW846-8260B) | 1,4 Dioxane (8270 SIM) | | | | | | | |

## PRESERVATIVES

| A | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |

## COMMENTS

<-- Specify Preservatives
A-HCl B-HNO3
C-H2SO4 D-NaOH
E-ICE F-Other

| CHEMTECH SAMPLE ID | PROJECT SAMPLE IDENTIFICATION | SAMPLE MATRIX | SAMPLE TYPE COMP | SAMPLE TYPE GRAB | SAMPLE COLLECTION DATE | SAMPLE COLLECTION TIME | # of Bottles | A | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | COMMENTS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1. | BP-VPB-192-TB-20250121 | QA | | X | 1/21/25 | 9:00 | 2 | 2 | | | | | | | | | | Trip Blank |
| 2. | BP-VPB-192-GW-60-62 | AQ | | X | 1/21/25 | 10:55 | 3 | 2 | 1 | | | | | | | | | |
| 3. | BP-VPB-192-GW-100-102 | AQ | | X | 1/21/25 | 14:00 | 3 | 2 | 1 | | | | | | | | | |
| 4. | BP-VPB-192-GW-140-142 | AQ | | X | 1/22/25 | 11:20 | 3 | 2 | 1 | | | | | | | | | |
| 5. | BP-VPB-192-GW-200-202 | AQ | | X | 1/22/25 | 14:45 | 3 | 2 | 1 | | | | | | | | | |
| 6. | VPB-192-HYD-20250122 | AQ | | X | 1/22/25 | 15:30 | 3 | 2 | 1 | | | | | | | | | |
| 7. | | | | | | | | | | | | | | | | | | |
| 8. | | | | | | | | | | | | | | | | | | |
| 9. | | | | | | | | | | | | | | | | | | |
| 10. | | | | | | | | | | | | | | | | | | |

## SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSSESSION INCLUDING COURIER DELIVERY

| RELINQUISHED BY SAMPLER | DATE/TIME | RECEIVED BY |
|---|---|---|
| 1. | 1/23/25 1530 | 1. 1530 1-23-25 |
| RELINQUISHED BY | DATE/TIME | RECEIVED BY |
| 2. | | 2. |
| RELINQUISHED BY | DATE/TIME | RECEIVED FOR LAB BY |
| 3. | 1-23-25 1820 | 3. |

Conditions of bottles or coolers at receipt: q Compliant q Non Compliant q Cooler Temp 2.4°C
MeOH extraction requires an additional 4oz. Jar for percent solid q Ice in Cooler?:_____
Comments: Standard TAT

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 :** Q1173 TETR06
**Client Name :** Tetra Tech NUS, Inc.
**Client Contact :** Ernie Wu
**Invoice Name :** Tetra Tech NUS, Inc.
**Invoice Contact :** Ernie Wu

**Order Date :** 1/23/2025 3:29:00 PM
**Project Name :** CTO WE13
**Receive DateTime :** 1/23/2025 6:20:00 PM
**Purchase Order :**

**Project Mgr :** Yazmeen
**Report Type :** Level 4
**EDD Type :** ADAPT
**Hard Copy Date :**
**Date Signoff :** 1/24/2025 10:51:03 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|
| Q1173-01 | BP-VPB-192-TB-20250121 | Water | 01/21/2025 | 09:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1173-02 | BP-VPB-192-GW-60-62 | Water | 01/21/2025 | 10:55 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1173-03 | BP-VPB-192-GW-100-102 | Water | 01/21/2025 | 14:00 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1173-04 | BP-VPB-192-GW-140-142 | Water | 01/22/2025 | 11:20 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1173-05 | BP-VPB-192-GW-200-202 | Water | 01/22/2025 | 14:45 | | | | | |
| | | | | | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |
| Q1173-06 | VPB192-HYD-20250122<br>~~BP-VPB-192-HYD-20250122~~<br>YG<br>02/03/25 | Water | 01/22/2025 | 15:30 | VOCMS Group1 | | 8260-Low | | 10 Bus. Days |

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

# LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q1173 TETR06
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**Client Contact :** Ernie Wu
**Invoice Name :** Tetra Tech NUS, Inc.
**Invoice Contact :** Ernie Wu

**Order Date :** 1/23/2025 3:29:00 PM
**Project Name :** CTO WE13
**Receive DateTime :** 1/23/2025 6:20:00 PM
**Purchase Order :**

**Project Mgr :** Yazmeen
**Report Type :** Level 4
**EDD Type :** ADAPT
**Hard Copy Date :**
**Date Signoff :** 1/24/2025 10:51:03 AM

| LAB ID | CLIENT ID | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE DATES |
|---|---|---|---|---|---|---|---|---|---|

**Relinguished By :**
**Date / Time :** 1-24-25 1115

**Received By :**
**Date / Time :** 1.24.25 . 11:15

**Storage Area :** VOA Refridgerator Room

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044648.D
Acq On : 15 Jan 2025 10:31
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Quant Time: Jan 30 04:55:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| Internal Standards | | | | | | | |
| 1) Pentafluorobenzene | 5.538 | 168 | 214233 | 50.000 | ug/l | | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 389452 | 50.000 | ug/l | | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 329917 | 50.000 | ug/l | | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 135288 | 50.000 | ug/l | | 0.00 |
| System Monitoring Compounds | | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 4722 | 1.460 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 2.920%# | | | |
| 35) Dibromofluoromethane | 5.391 | 113 | 3311 | 1.338 | ug/l | | 0.01 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 2.680%# | | | |
| 50) Toluene-d8 | 8.647 | 98 | 11717 | 1.358 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 2.720%# | | | |
| 62) 4-Bromofluorobenzene | 11.085 | 95 | 4174 | 1.298 | ug/l | | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 2.600%# | | | |
| Target Compounds | | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.167 | 85 | 2555 | 0.886 | ug/l | | 97 |
| 3) Chloromethane | 1.295 | 50 | 3539 | 1.135 | ug/l | | 96 |
| 4) Vinyl Chloride | 1.374 | 62 | 3434 | 1.115 | ug/l | # | 64 |
| 5) Bromomethane | 1.593 | 94 | 1036 | 1.409 | ug/l | | 98 |
| 6) Chloroethane | 1.660 | 64 | 708 | 1.253 | ug/l | # | 83 |
| 7) Trichlorofluoromethane | 1.862 | 101 | 3682 | 1.082 | ug/l | | 89 |
| 8) Diethyl Ether | 2.130 | 74 | 1689 | 1.229 | ug/l | | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 2.313 | 101 | 2905 | 1.135 | ug/l | # | 88 |
| 10) Methyl Iodide | 2.441 | 142 | 3613 | 1.034 | ug/l | | 95 |
| 11) Tert butyl alcohol | 2.941 | 59 | 8498 | 11.788 | ug/l | # | 91 |
| 12) 1,1-Dichloroethene | 2.313 | 96 | 2735 | 1.090 | ug/l | | 82 |
| 13) Acrolein | 2.233 | 56 | 2870 | 8.460 | ug/l | # | 78 |
| 14) Allyl chloride | 2.654 | 41 | 6137 | 1.257 | ug/l | | 88 |
| 15) Acrylonitrile | 3.069 | 53 | 7502 | 5.306 | ug/l | | 95 |
| 16) Acetone | 2.386 | 43 | 7914 | 6.186 | ug/l | | 97 |
| 17) Carbon Disulfide | 2.496 | 76 | 7240 | 1.058 | ug/l | | 96 |
| 18) Methyl Acetate | 2.703 | 43 | 4460 | 1.130 | ug/l | | 97 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 9974 | 1.098 | ug/l | | 96 |
| 20) Methylene Chloride | 2.782 | 84 | 3548 | 1.191 | ug/l | | 94 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 3164 | 1.208 | ug/l | | 94 |
| 22) Diisopropyl ether | 3.758 | 45 | 9038 | 1.065 | ug/l | # | 76 |
| 23) Vinyl Acetate | 3.721 | 43 | 39593 | 5.328 | ug/l | | 98 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 5359 | 1.064 | ug/l | | 98 |
| 25) 2-Butanone | 4.574 | 43 | 9672 | 5.085 | ug/l | | 94 |
| 26) 2,2-Dichloropropane | 4.459 | 77 | 5837 | 1.196 | ug/l | | 95 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 4029 | 1.223 | ug/l | | 87 |
| 28) Bromochloromethane | 4.891 | 49 | 2733 | 1.162 | ug/l | # | 95 |
| 29) Tetrahydrofuran | 5.019 | 42 | 6842 | 5.576 | ug/l | | 98 |
| 30) Chloroform | 5.087 | 83 | 5401 | 1.063 | ug/l | | 85 |
| 31) Cyclohexane | 5.458 | 56 | 4891 | 1.201 | ug/l | | 95 |
| 32) 1,1,1-Trichloroethane | 5.379 | 97 | 5968 | 1.278 | ug/l | # | 47 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 4243 | 1.232 | ug/l | # | 92 |
| 37) Ethyl Acetate | 4.727 | 43 | 3269 | 0.891 | ug/l | # | 88 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 4558 | 1.177 | ug/l | | 85 |
| 39) Methylcyclohexane | 7.367 | 83 | 5156 | 1.128 | ug/l | | 98 |
| 40) Benzene | 6.025 | 78 | 11813 | 1.107 | ug/l | | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044648.D
Acq On : 15 Jan 2025 10:31
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Quant Time: Jan 30 04:55:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.928 | 41 | 725 | 0.339 | ug/l | # | 1 |
| 42) 1,2-Dichloroethane | 6.092 | 62 | 4299 | 1.104 | ug/l | | 91 |
| 43) Isopropyl Acetate | 6.355 | 43 | 7640 | 1.132 | ug/l | | 96 |
| 44) Trichloroethene | 7.123 | 130 | 2633 | 1.026 | ug/l | | 91 |
| 45) 1,2-Dichloropropane | 7.434 | 63 | 2857 | 1.064 | ug/l | | 99 |
| 46) Dibromomethane | 7.580 | 93 | 2337 | 1.143 | ug/l | | 94 |
| 47) Bromodichloromethane | 7.818 | 83 | 4937 | 1.177 | ug/l | | 89 |
| 48) Methyl methacrylate | 7.702 | 41 | 3029 | 0.967 | ug/l | | 91 |
| 49) 1,4-Dioxane | 7.696 | 88 | 1485 | 22.727 | ug/l | # | 87 |
| 51) 4-Methyl-2-Pentanone | 8.580 | 43 | 21388 | 5.736 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 7332 | 1.122 | ug/l | | 93 |
| 53) t-1,3-Dichloropropene | 8.982 | 75 | 4499 | 1.038 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.373 | 75 | 5328 | 1.134 | ug/l | # | 87 |
| 55) 1,1,2-Trichloroethane | 9.153 | 97 | 3124 | 1.182 | ug/l | | 91 |
| 56) Ethyl methacrylate | 9.122 | 69 | 4994 | 1.099 | ug/l | | 89 |
| 57) 1,3-Dichloropropane | 9.311 | 76 | 5078 | 1.128 | ug/l | | 92 |
| 58) 2-Chloroethyl Vinyl ether | 8.245 | 63 | 14681 | 6.581 | ug/l | | 98 |
| 59) 2-Hexanone | 9.439 | 43 | 15480 | 5.643 | ug/l | | 98 |
| 60) Dibromochloromethane | 9.519 | 129 | 3495 | 1.127 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 3200 | 1.155 | ug/l | | 96 |
| 64) Tetrachloroethene | 9.269 | 164 | 2280 | 1.101 | ug/l | | 87 |
| 65) Chlorobenzene | 10.073 | 112 | 7770 | 1.109 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 2769 | 1.087 | ug/l | # | 62 |
| 67) Ethyl Benzene | 10.195 | 91 | 13366 | 1.093 | ug/l | | 93 |
| 68) m/p-Xylenes | 10.299 | 106 | 10180 | 2.244 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 5193 | 1.132 | ug/l | | 97 |
| 70) Styrene | 10.659 | 104 | 7732 | 1.044 | ug/l | | 93 |
| 71) Bromoform | 10.799 | 173 | 2194 | 1.058 | ug/l | # | 93 |
| 73) Isopropylbenzene | 10.964 | 105 | 12214 | 1.105 | ug/l | | 97 |
| 74) N-amyl acetate | 10.848 | 43 | 6028 | 1.107 | ug/l | | 97 |
| 75) 1,1,2,2-Tetrachloroethane | 11.214 | 83 | 4377 | 1.147 | ug/l | | 91 |
| 76) 1,2,3-Trichloropropane | 11.244 | 75 | 4898 | 1.492 | ug/l | | 92 |
| 77) Bromobenzene | 11.201 | 156 | 2937 | 1.137 | ug/l | | 93 |
| 78) n-propylbenzene | 11.305 | 91 | 13264 | 1.088 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 11.366 | 91 | 9159 | 1.163 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 10031 | 1.115 | ug/l | | 97 |
| 81) trans-1,4-Dichloro-2-b... | 11.025 | 75 | 1621 | 1.129 | ug/l | # | 82 |
| 82) 4-Chlorotoluene | 11.457 | 91 | 9494 | 1.101 | ug/l | | 93 |
| 83) tert-Butylbenzene | 11.713 | 119 | 10869 | 1.155 | ug/l | | 96 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 10735 | 1.174 | ug/l | | 94 |
| 85) sec-Butylbenzene | 11.890 | 105 | 12217 | 1.115 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.012 | 119 | 9910 | 1.101 | ug/l | | 90 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 4688 | 1.046 | ug/l | | 97 |
| 88) 1,4-Dichlorobenzene | 11.969 | 146 | 4688 | 1.035 | ug/l | | 97 |
| 89) n-Butylbenzene | 12.335 | 91 | 8095 | 1.047 | ug/l | | 94 |
| 90) Hexachloroethane | 12.536 | 117 | 2589 | 1.270 | ug/l | | 92 |
| 91) 1,2-Dichlorobenzene | 12.341 | 146 | 5192 | 1.128 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75 | 1100 | 1.178 | ug/l | | 97 |
| 93) 1,2,4-Trichlorobenzene | 13.591 | 180 | 2587 | 0.941 | ug/l | | 92 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 1133 | 1.049 | ug/l | | 91 |
| 95) Naphthalene | 13.780 | 128 | 10956 | 1.033 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.963 | 180 | 2863 | 1.004 | ug/l | | 96 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044648.D
Acq On : 15 Jan 2025 10:31
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Quant Time: Jan 30 04:55:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

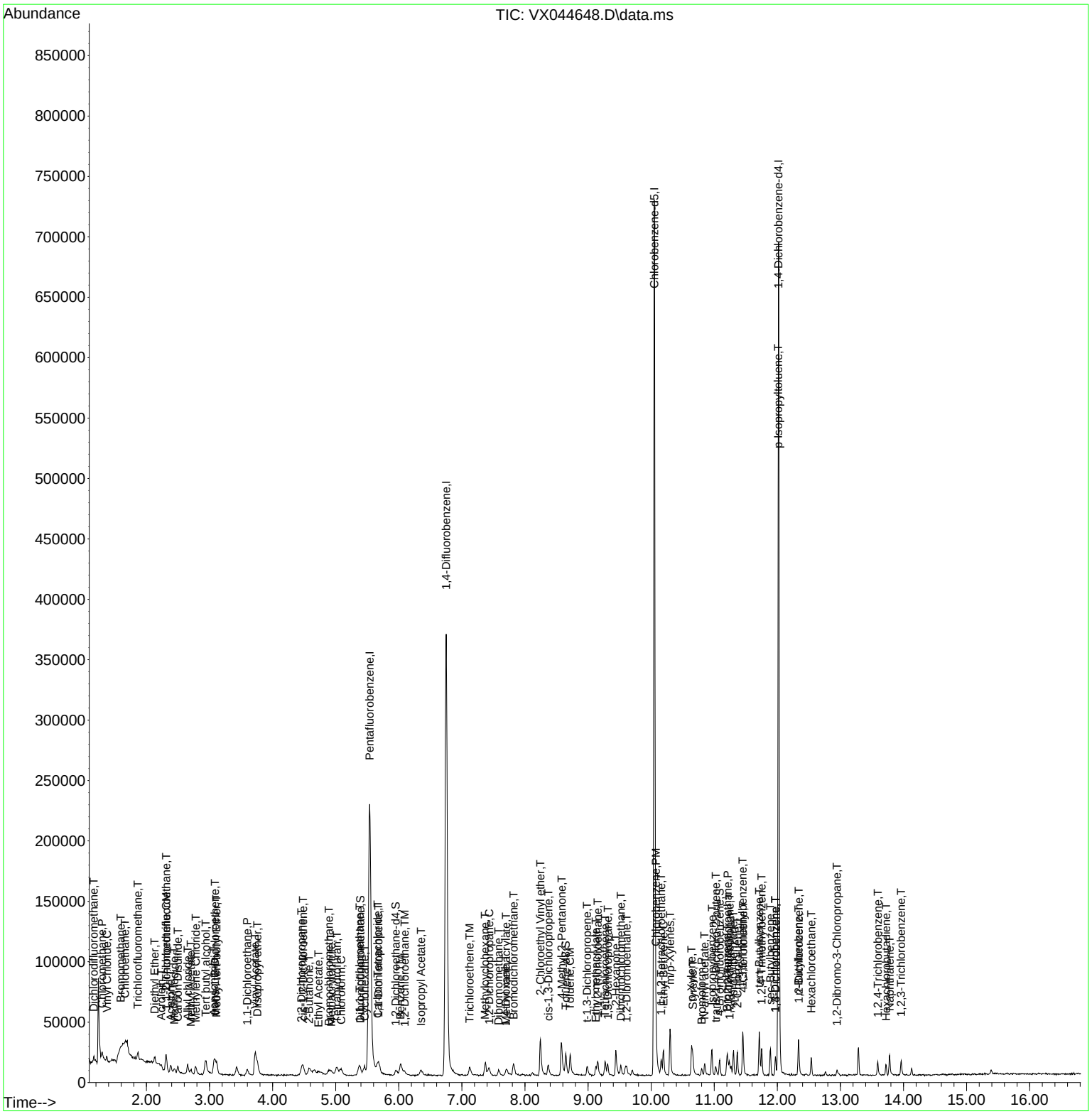
(#) = qualifier out of range (m) = manual integration (+) = signals summed

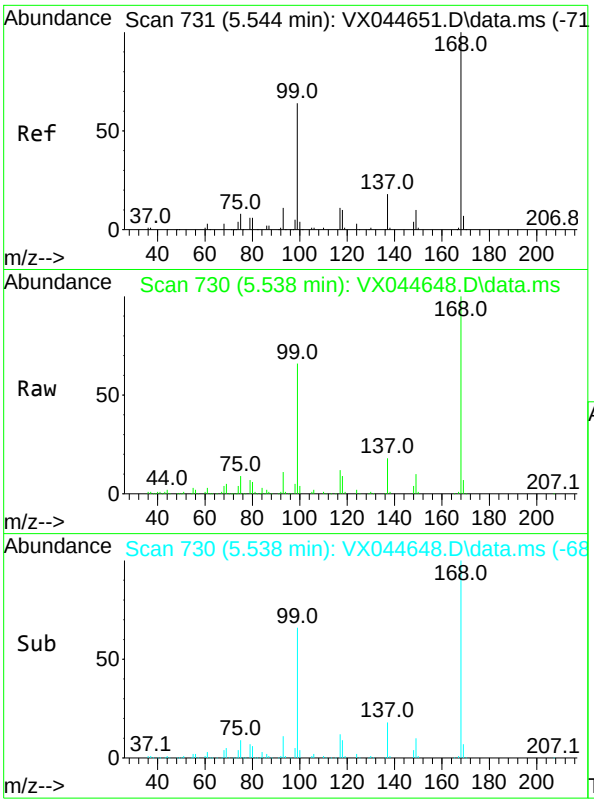
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044648.D
Acq On : 15 Jan 2025 10:31
Operator : JC/MD
Sample : VSTDICC001
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Quant Time: Jan 30 04:55:11 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



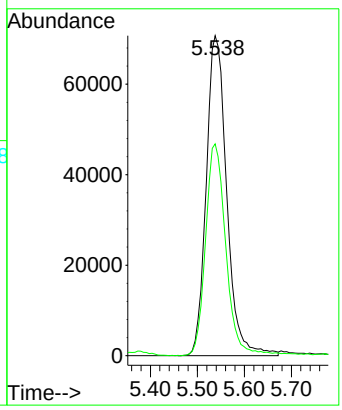


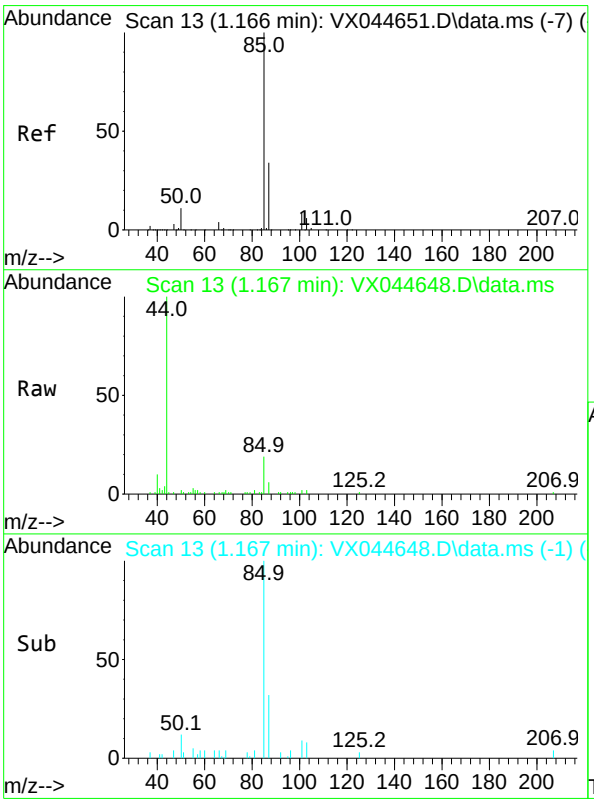

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:168 Resp: 214233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 66.1 | 51.1 | 76.7 |

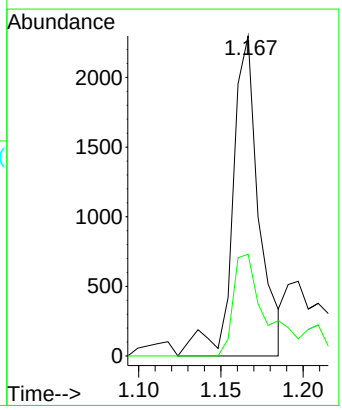


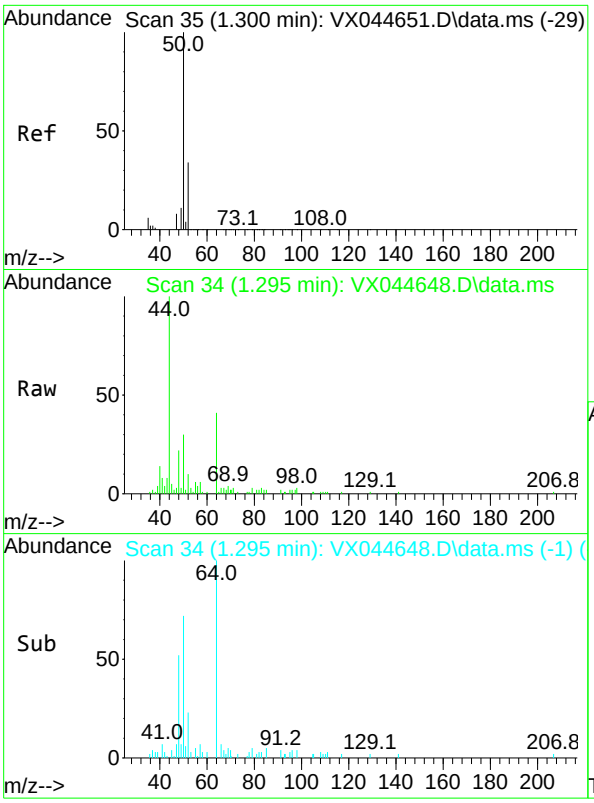




#2
Dichlorodifluoromethane
Concen: 0.886 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 85 Resp: 2555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.8 | 16.8 | 50.4 |



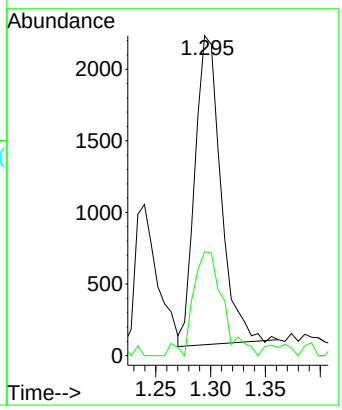


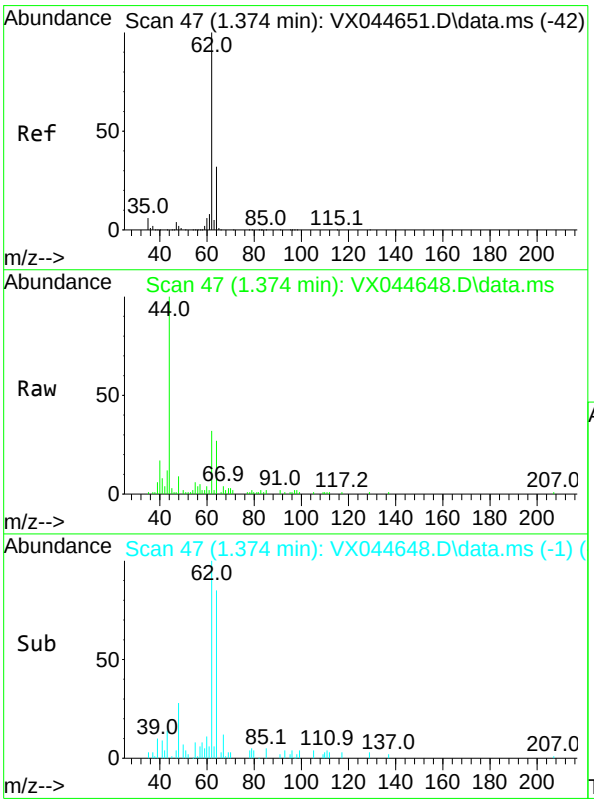

#3
Chloromethane
Concen: 1.135 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 50 Resp: 3539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.5 | 27.0 | 40.4 |

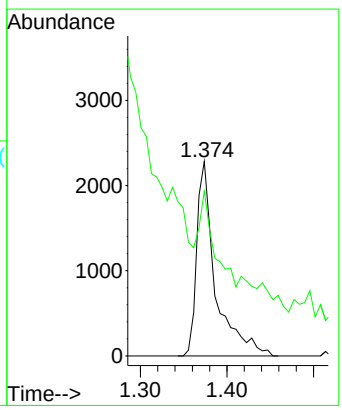


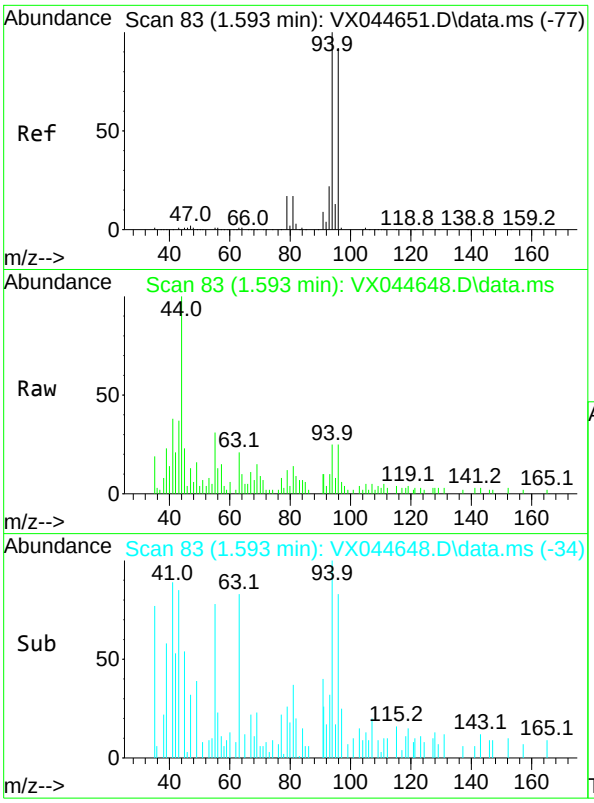




#4
Vinyl Chloride
Concen: 1.115 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 62 Resp: 3434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 53.6 | 26.6 | 39.8# |



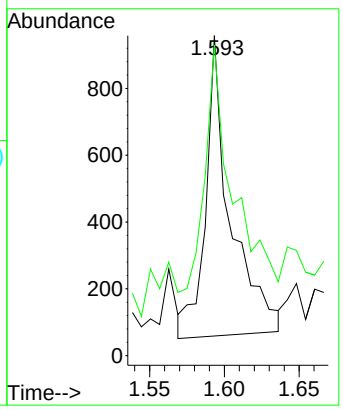


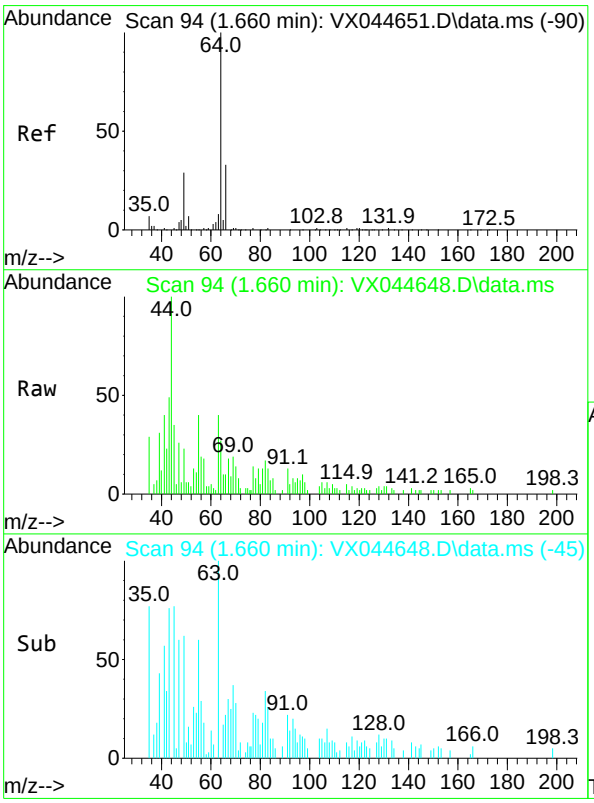

#5
Bromomethane
Concen: 1.409 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 94 Resp: 1036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.7 | 72.8 | 109.2 |

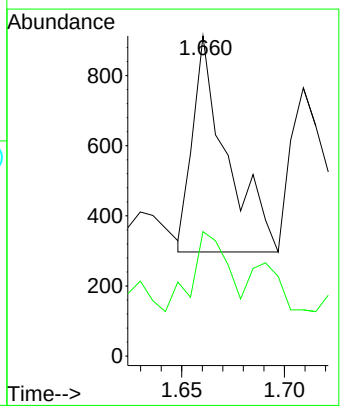


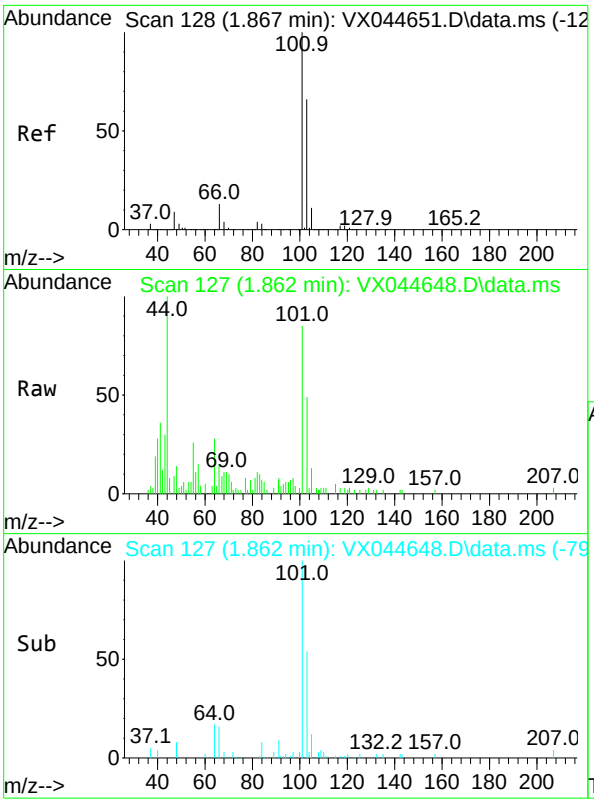




#6
Chloroethane
Concen: 1.253 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 64 Resp: 708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 23.4 | 26.6 | 39.8# |



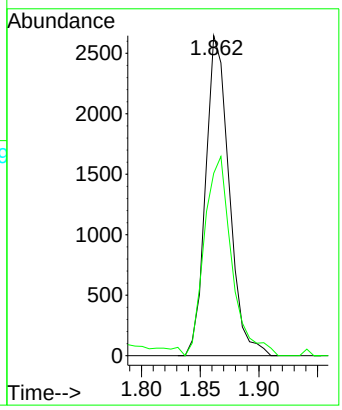


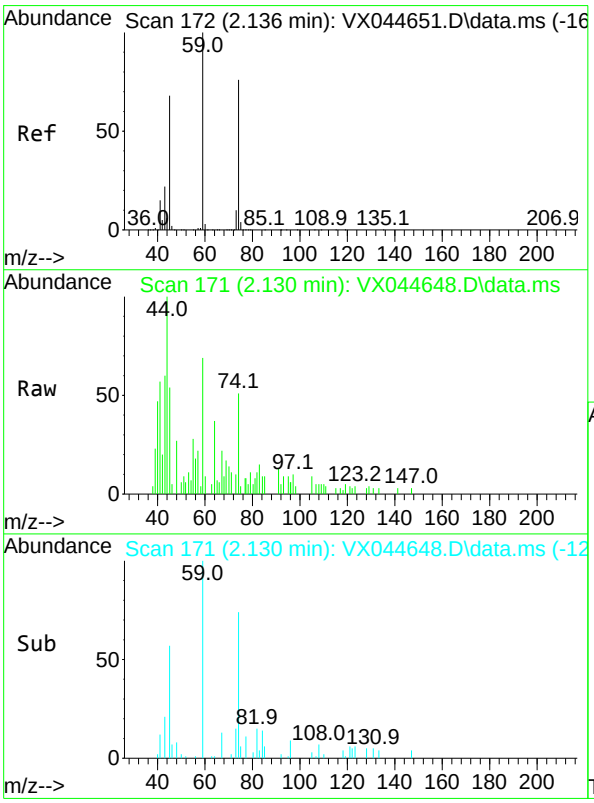

#7
Trichlorofluoromethane
Concen: 1.082 ug/l
RT: 1.862 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:101 Resp: 3682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 57.0 | 52.5 | 78.7 |

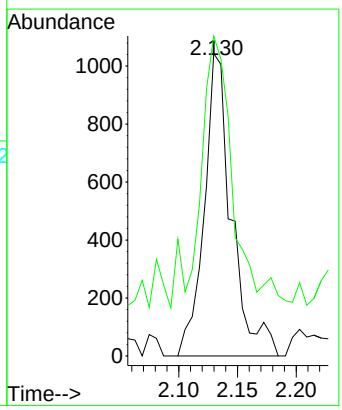


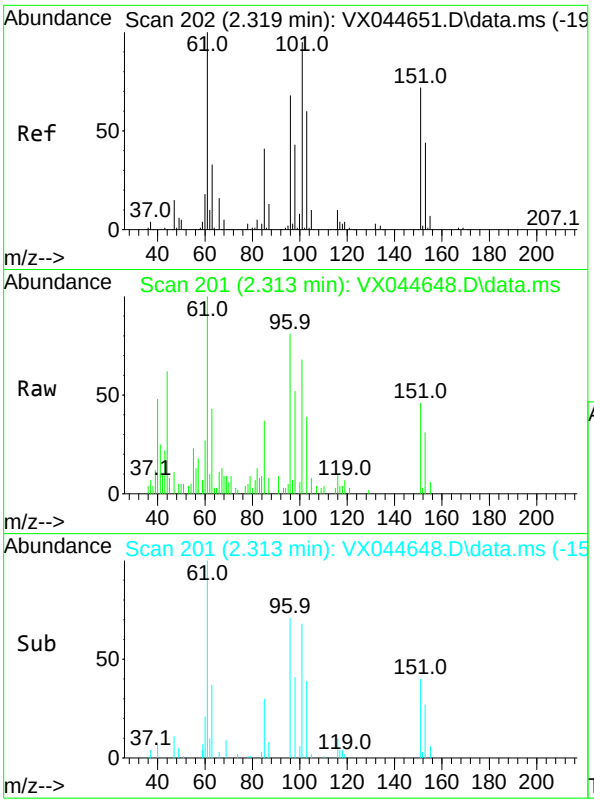




#8
Diethyl Ether
Concen: 1.229 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 74 Resp: 1689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 106.7 | 47.1 | 141.3 |



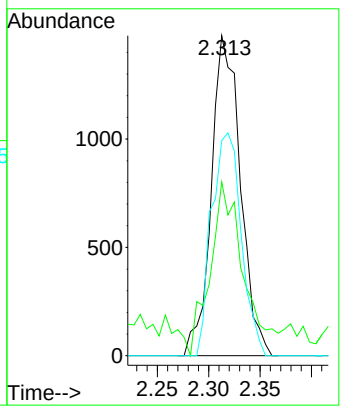


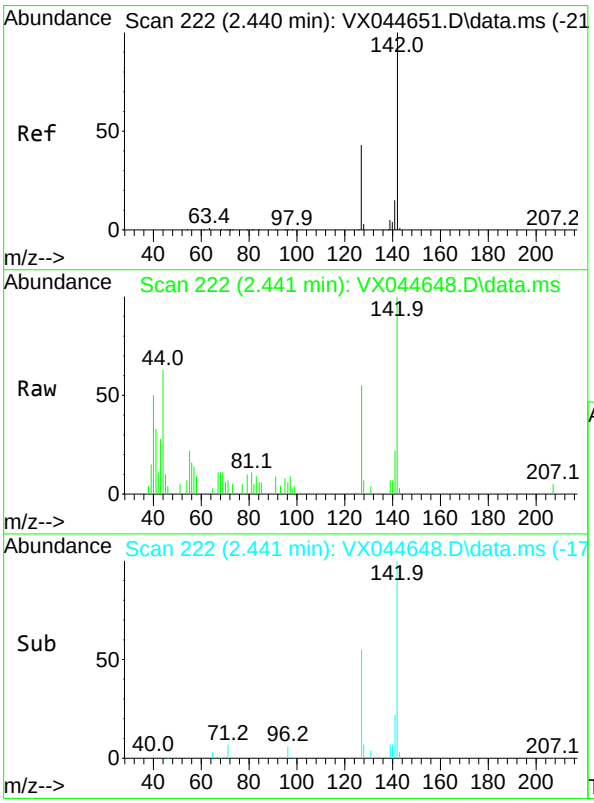

#9
1,1,2-Trichlorotrifluoroethane
Concen: 1.135 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:101 Resp: 2905

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 62.7 | 35.3 | 52.9# |
| 151 | 71.2 | 58.2 | 87.4 |

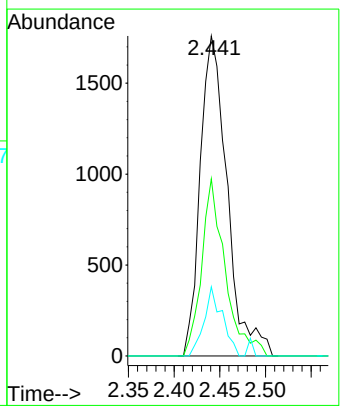


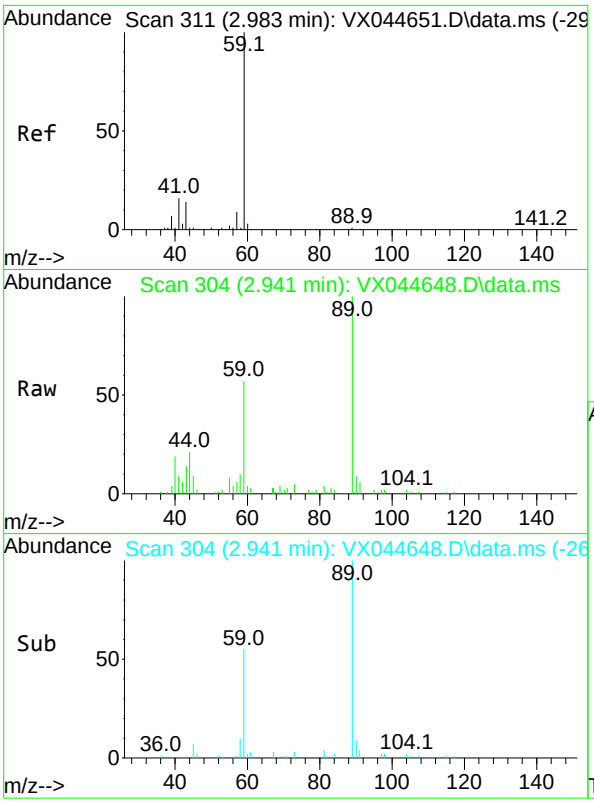




#10
Methyl Iodide
Concen: 1.034 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:142 Resp: 3613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 48.4 | 35.0 | 52.4 |
| 141 | 14.7 | 11.7 | 17.5 |



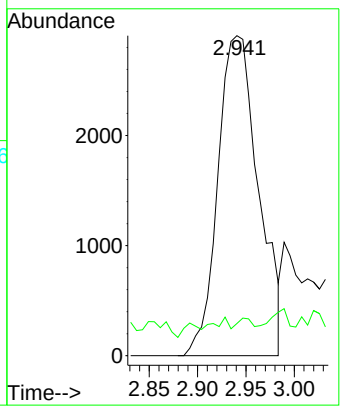


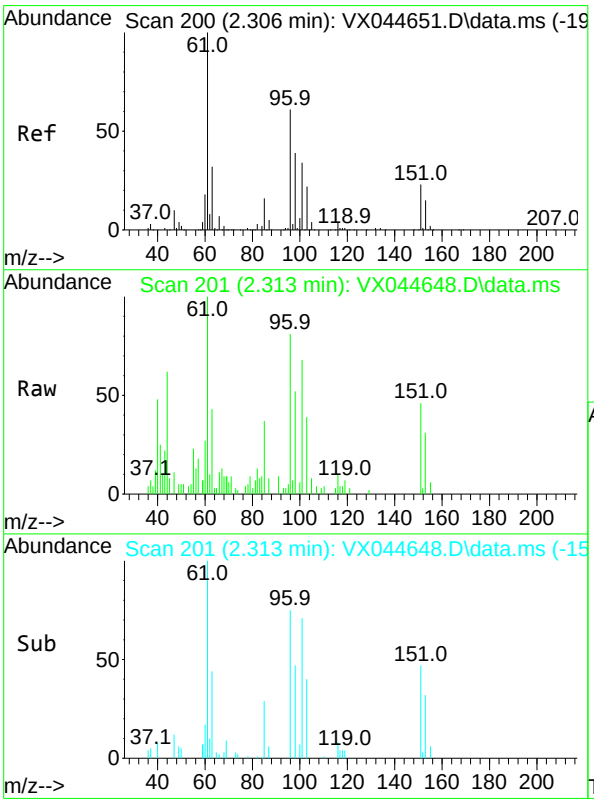

#11
Tert butyl alcohol
Concen: 11.788 ug/l
RT: 2.941 min Scan# 3
Delta R.T. -0.042 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 59 Resp: 8498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 1.9 | 3.9 | 5.9# |

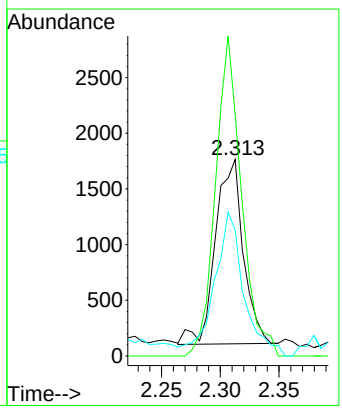


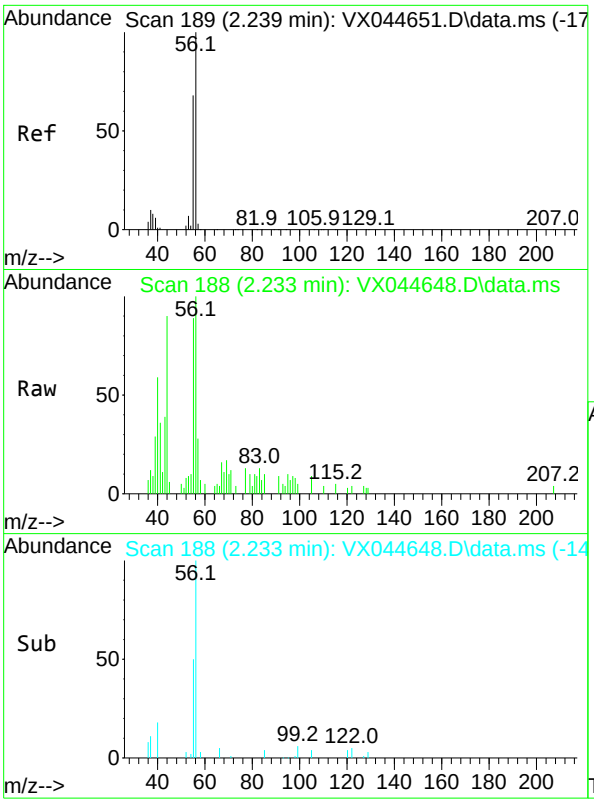




#12
1,1-Dichloroethene
Concen: 1.090 ug/l
RT: 2.313 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 96 Resp: 2735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.3 | 131.1 | 196.7 |
| 98 | 63.5 | 51.2 | 76.8 |



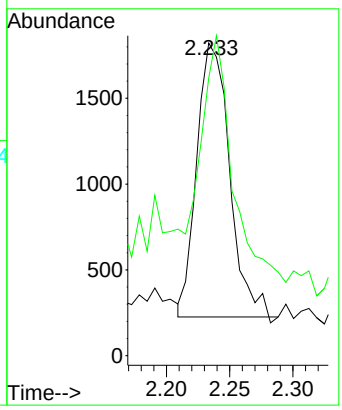


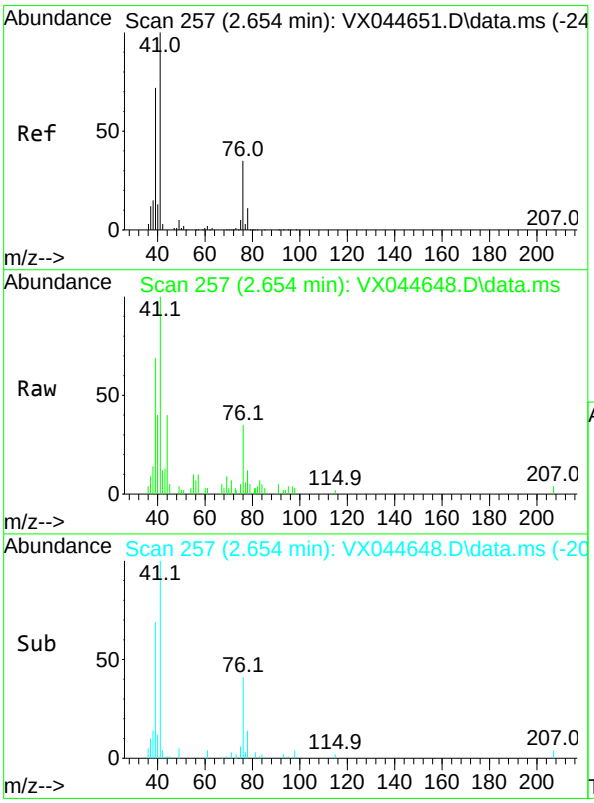

#13
Acrolein
Concen: 8.460 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 56 Resp: 2870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 87.1 | 55.1 | 82.7# |

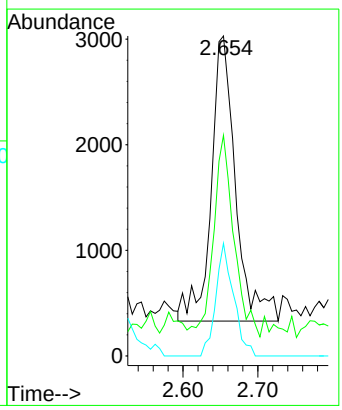


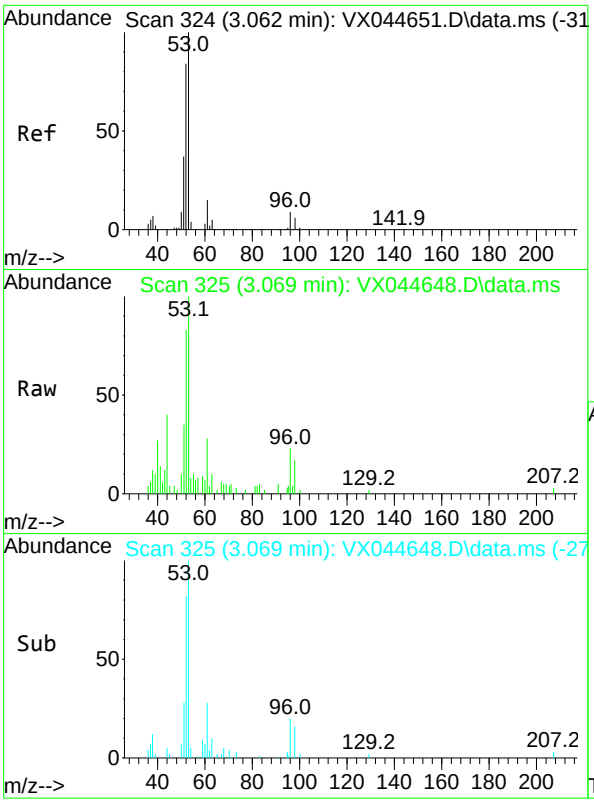




#14
Allyl chloride
Concen: 1.257 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 41 Resp: 6137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.2 | 54.9 | 82.3 |
| 76 | 28.7 | 28.4 | 42.6 |



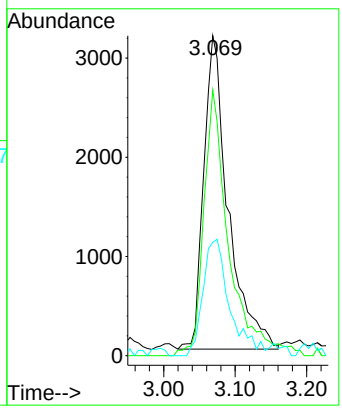


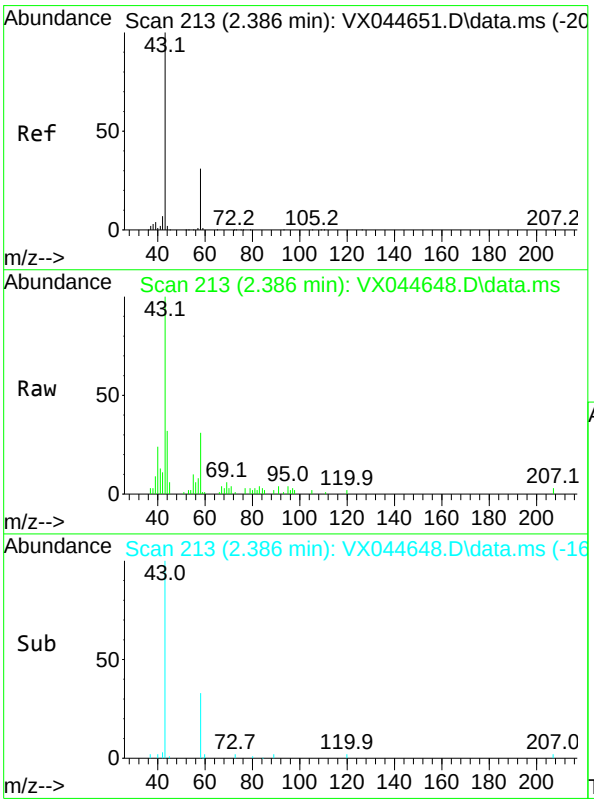

#15
Acrylonitrile
Concen: 5.306 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 53 Resp: 7502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 86.7 | 66.0 | 99.0 |
| 51 | 40.4 | 28.9 | 43.3 |

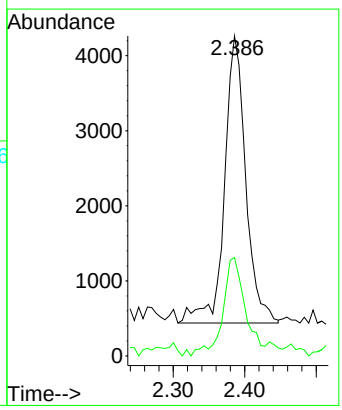


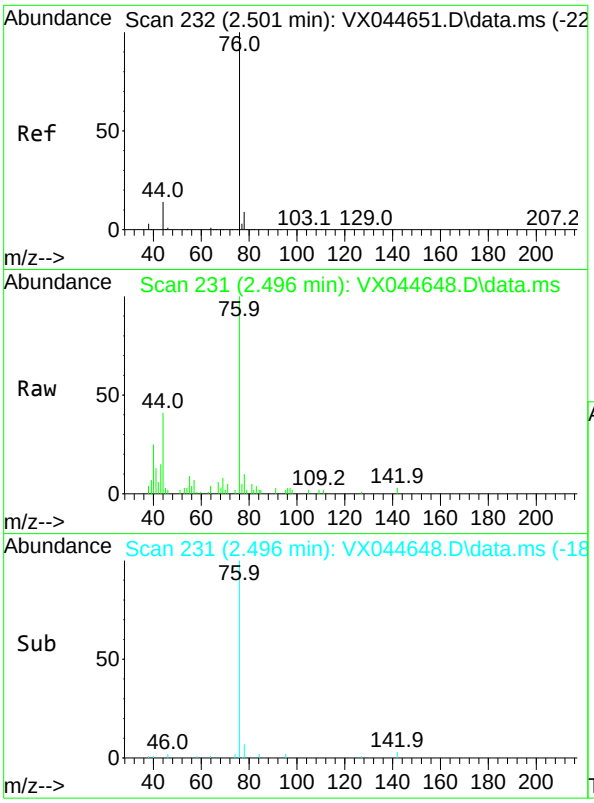




#16
Acetone
Concen: 6.186 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 7914

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.5 | 24.6 | 37.0 |



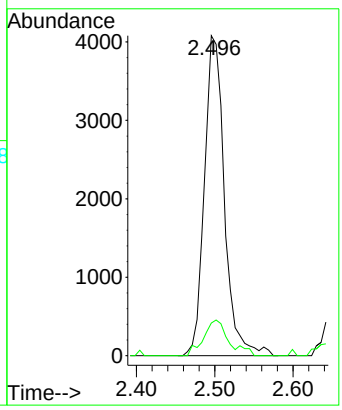


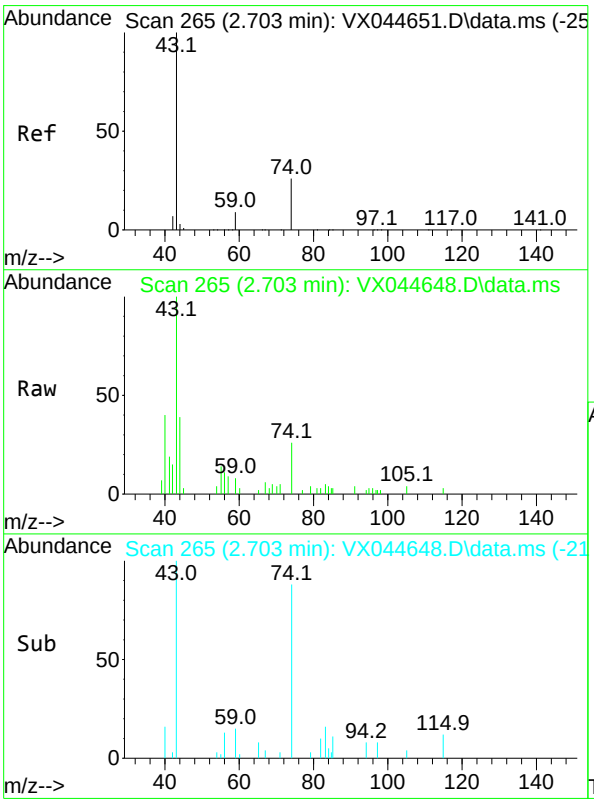

#17
Carbon Disulfide
Concen: 1.058 ug/l
RT: 2.496 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 76 Resp: 7240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 10.2 | 7.1 | 10.7 |

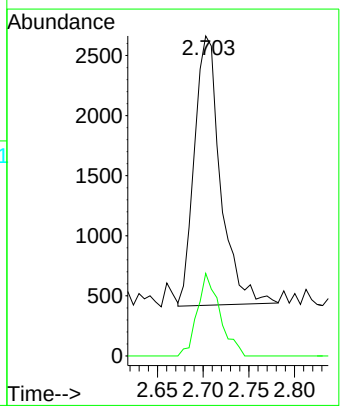


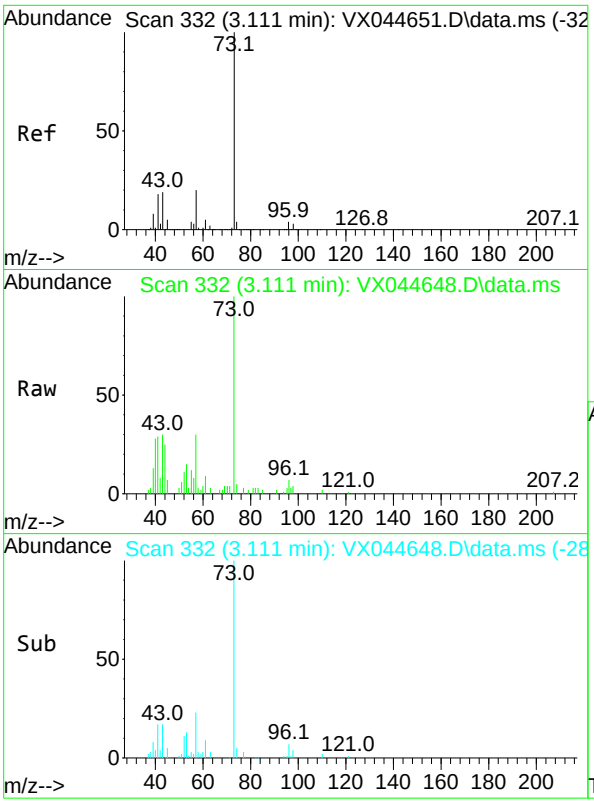




#18
Methyl Acetate
Concen: 1.130 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 4460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 26.5 | 19.8 | 29.8 |



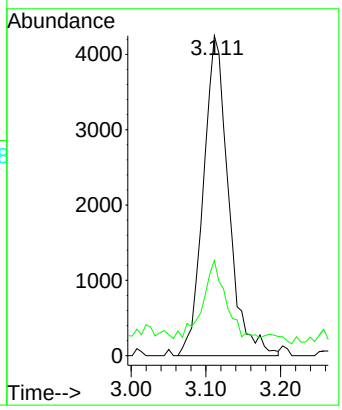


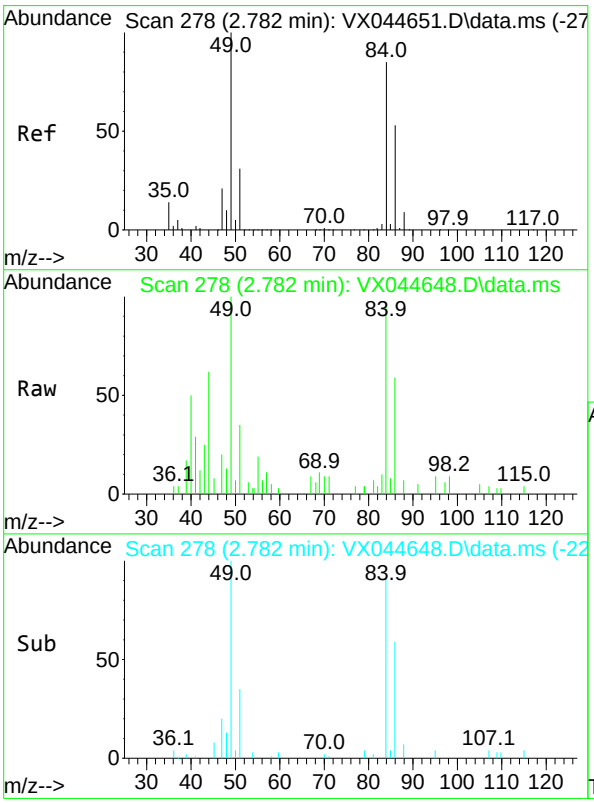

#19
Methyl tert-butyl Ether
Concen: 1.098 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 73 Resp: 9974

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 23.7 | 17.4 | 26.0 |

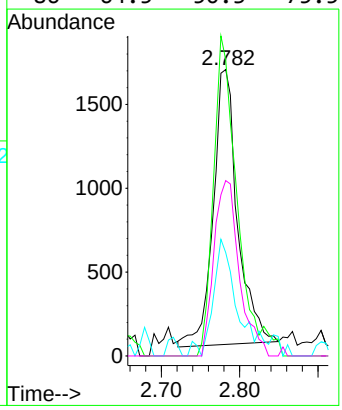


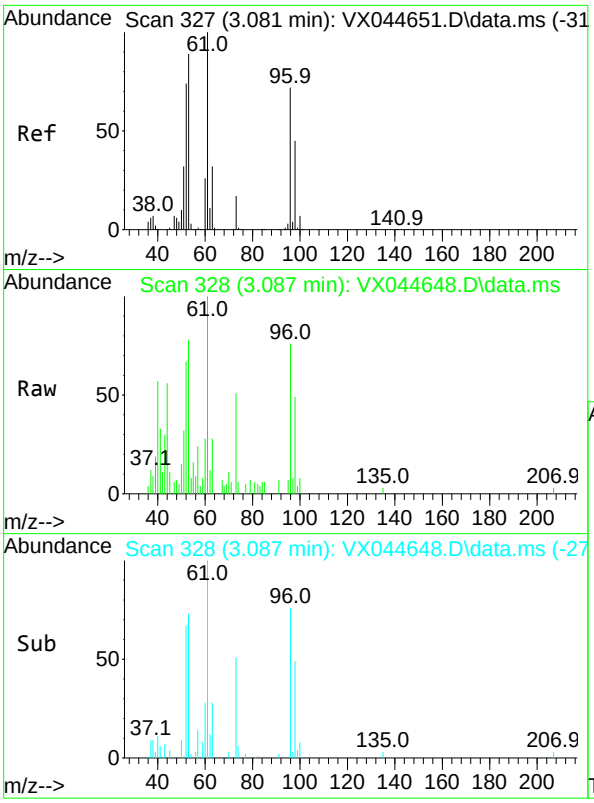




#20
Methylene Chloride
Concen: 1.191 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 84 Resp: 3548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 108.9 | 94.2 | 141.4 |
| 51 | 34.2 | 28.8 | 43.2 |
| 86 | 64.5 | 50.3 | 75.5 |



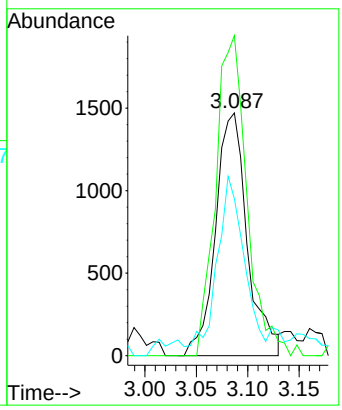


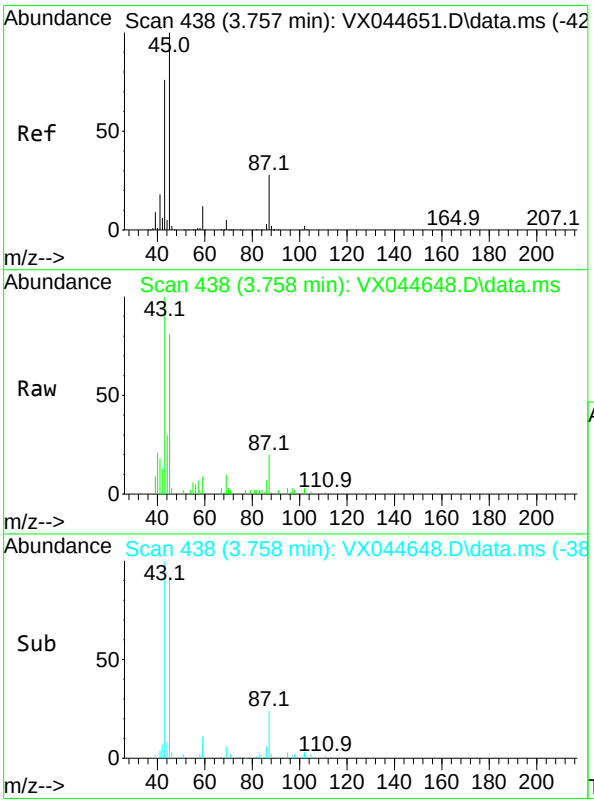

#21
trans-1,2-Dichloroethene
Concen: 1.208 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 96 Resp: 3164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 131.8 | 111.0 | 166.6 |
| 98 | 58.2 | 50.2 | 75.2 |

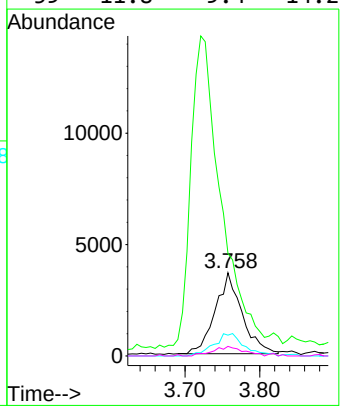


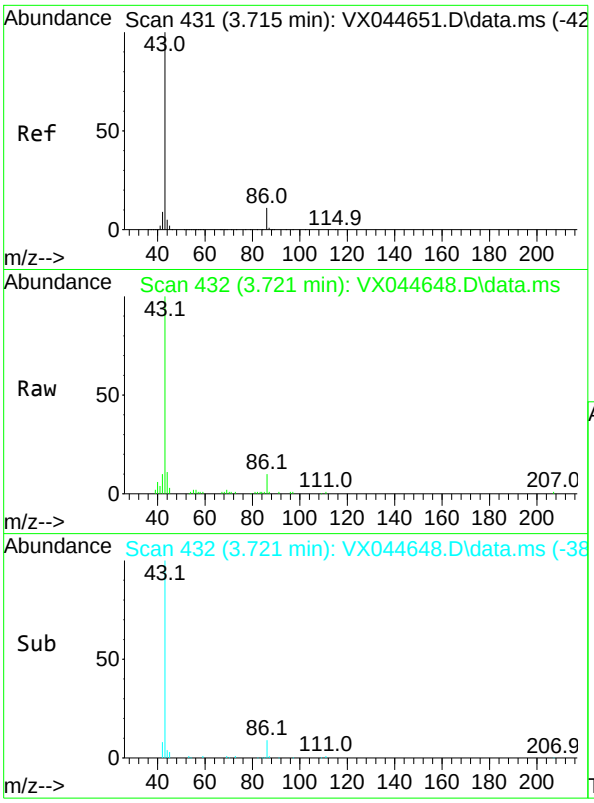




#22
Diisopropyl ether
Concen: 1.065 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 45 Resp: 9038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 106.2 | 61.0 | 91.6# |
| 87 | 25.7 | 22.7 | 34.1 |
| 59 | 11.8 | 9.4 | 14.2 |



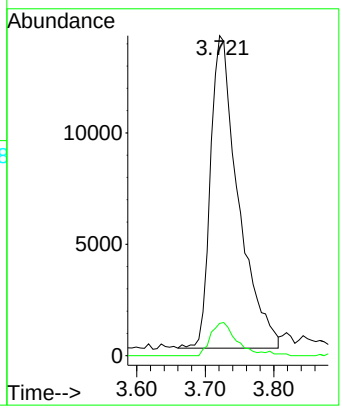


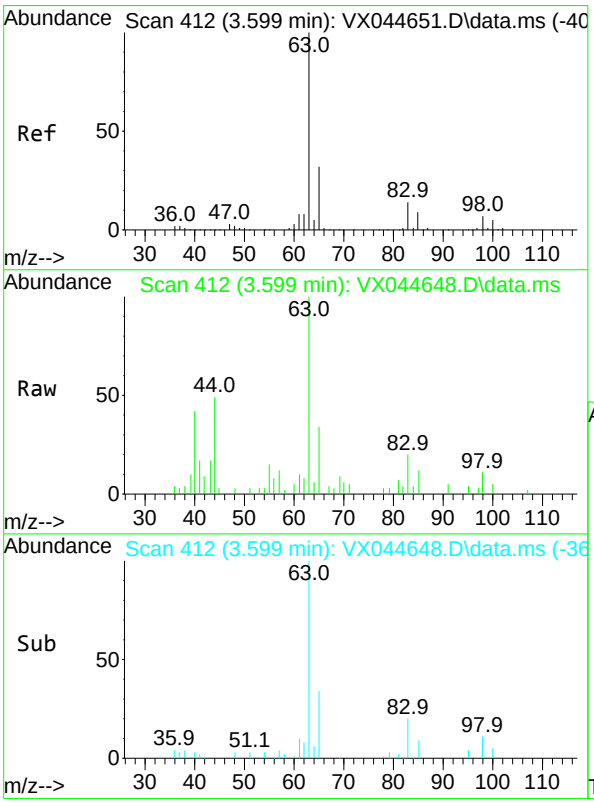

#23
Vinyl Acetate
Concen: 5.328 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 39593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.3 | 8.9 | 13.3 |

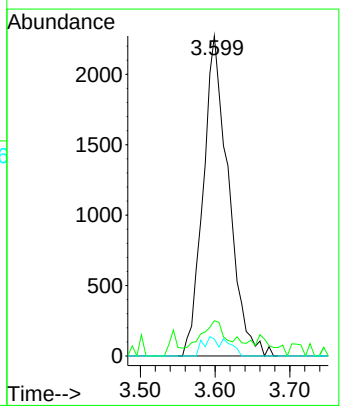


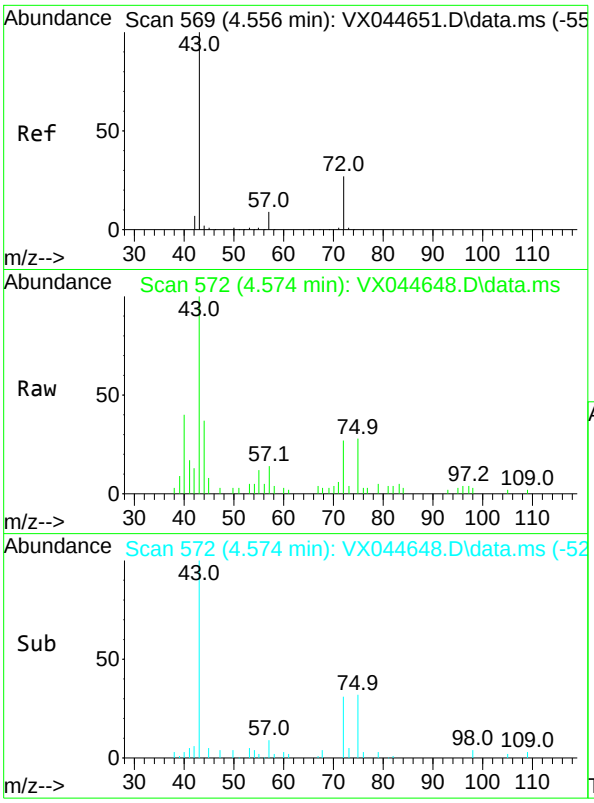




#24
1,1-Dichloroethane
Concen: 1.064 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 63 Resp: 5359

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.4 | 3.6 | 10.9 |
| 100 | 5.2 | 2.5 | 7.5 |



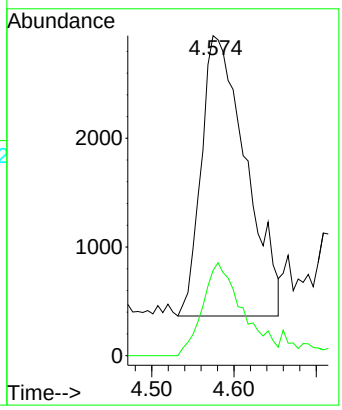


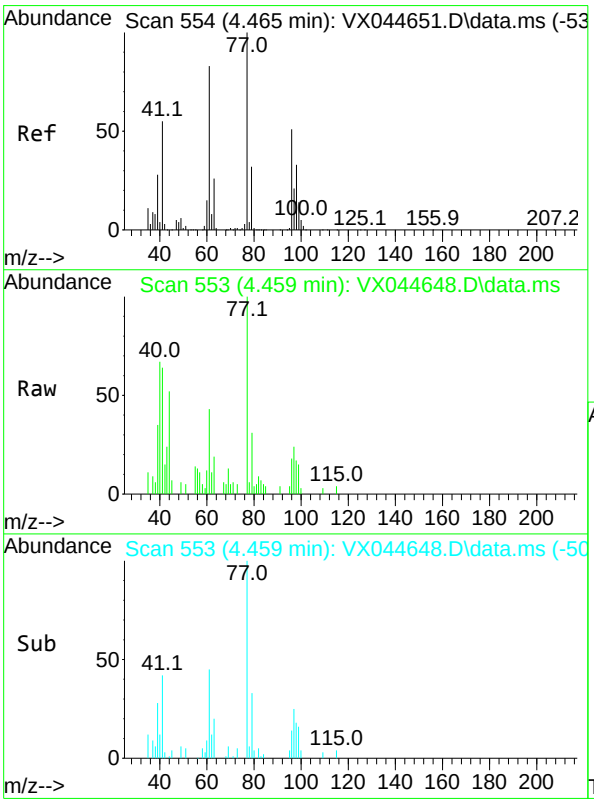

#25
2-Butanone
Concen: 5.085 ug/l
RT: 4.574 min Scan# 5
Delta R.T. 0.018 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 9672

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 30.4 | 21.7 | 32.5 |

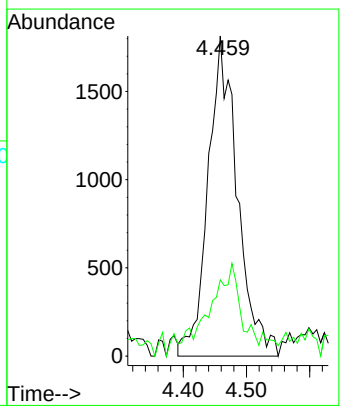


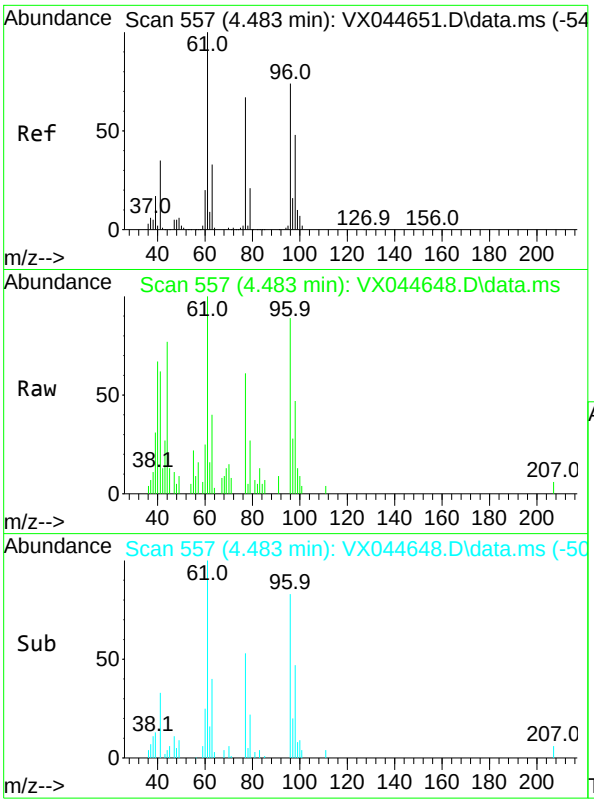




#26
2,2-Dichloropropane
Concen: 1.196 ug/l
RT: 4.459 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 77 Resp: 5837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.2 | 10.9 | 32.6 |



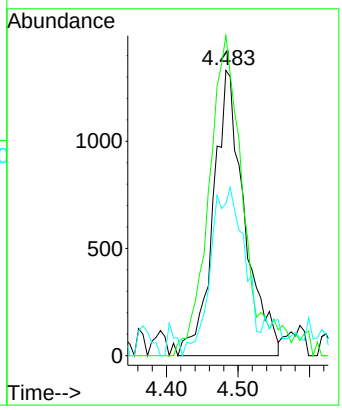


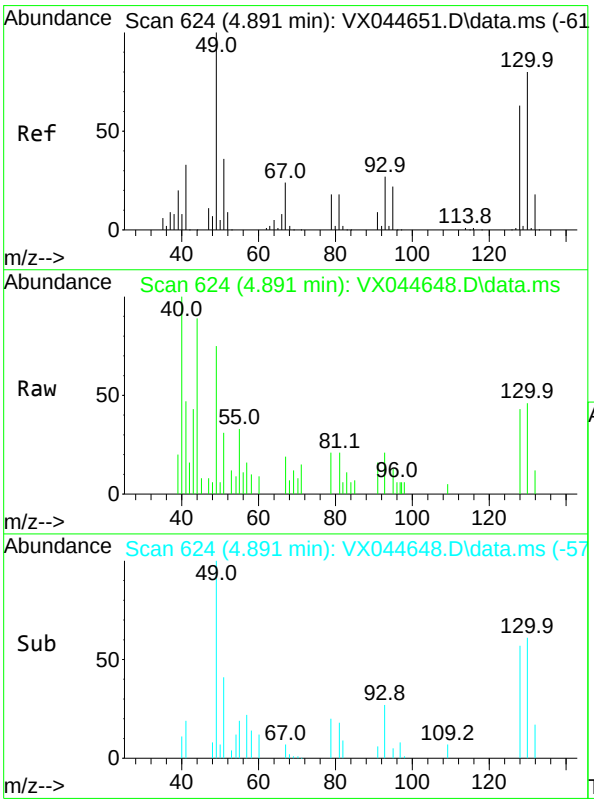

#27
cis-1,2-Dichloroethene
Concen: 1.223 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 96 Resp: 4029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 124.2 | 0.0 | 296.0 |
| 98 | 64.2 | 0.0 | 130.0 |

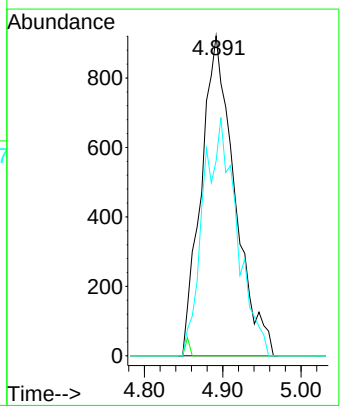


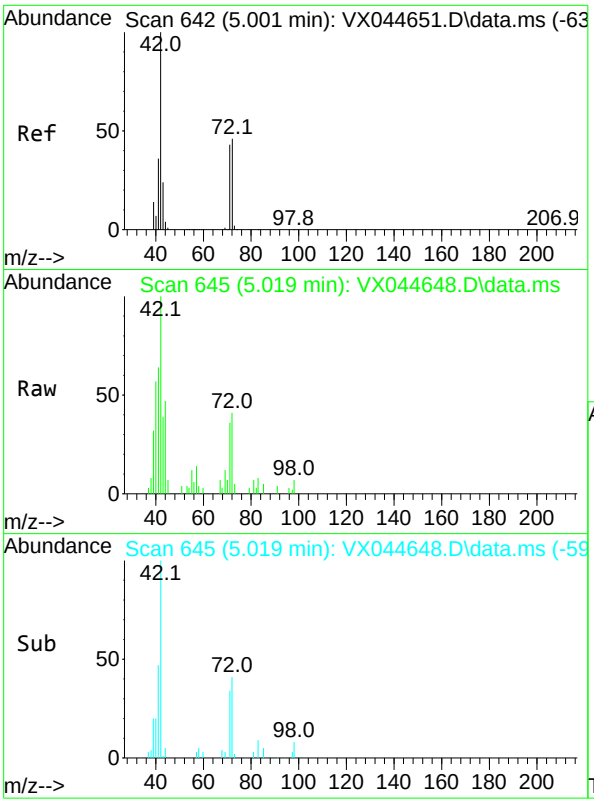




#28
Bromochloromethane
Concen: 1.162 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 49 Resp: 2733

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 0.0 | 0.0 | 4.4 |
| 130 | 74.9 | 63.4 | 95.2 |



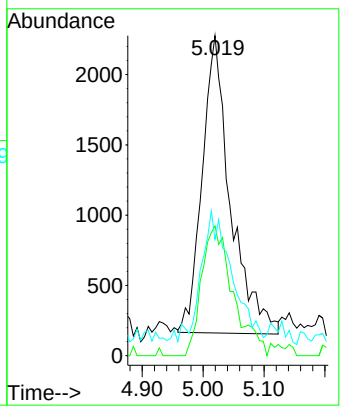


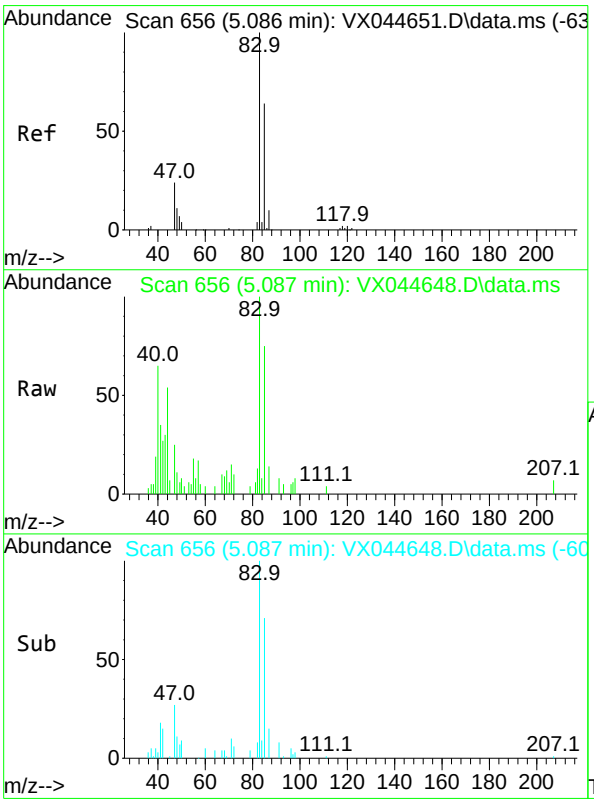

#29
Tetrahydrofuran
Concen: 5.576 ug/l
RT: 5.019 min Scan# 64
Delta R.T. 0.018 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 42 Resp: 6842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.2 | 38.2 | 57.4 |
| 71 | 46.5 | 35.3 | 52.9 |

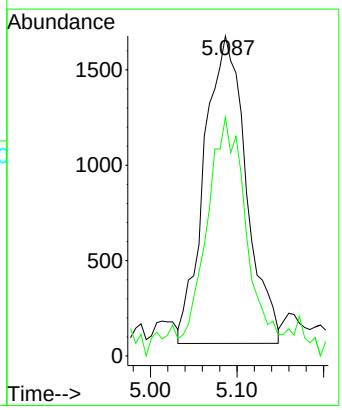


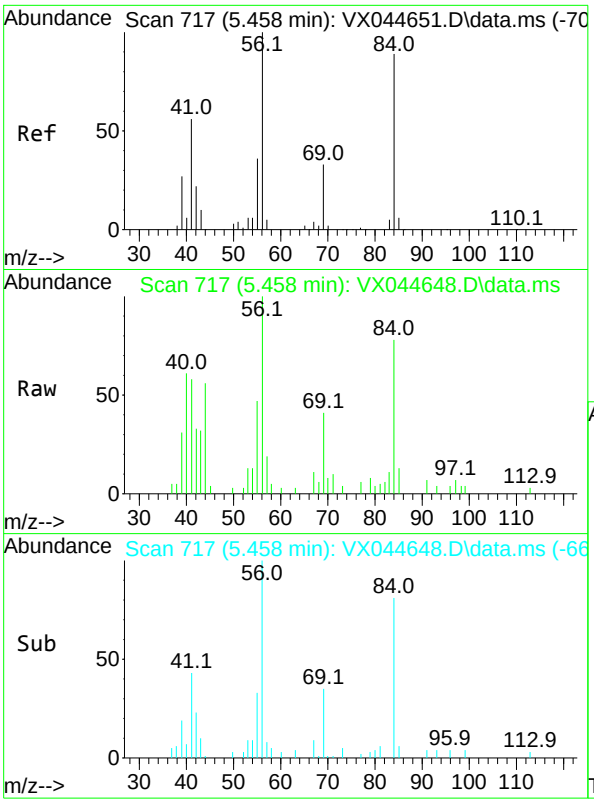




#30
Chloroform
Concen: 1.063 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 83 Resp: 5401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 75.4 | 51.2 | 76.8 |



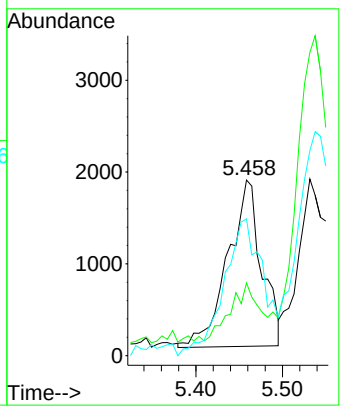


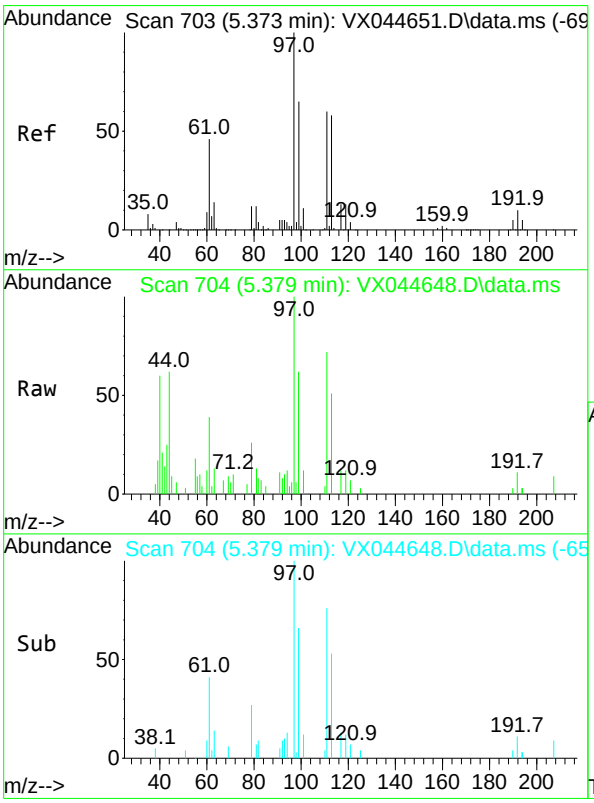

#31
Cyclohexane
Concen: 1.201 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 56 Resp: 4891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 36.3 | 26.8 | 40.2 |
| 84 | 83.8 | 71.0 | 106.4 |

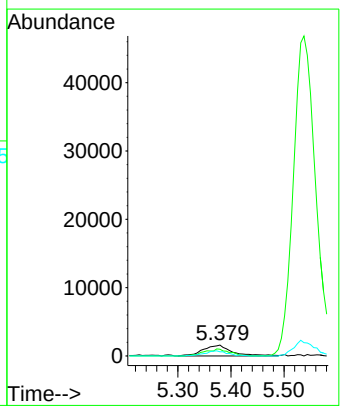


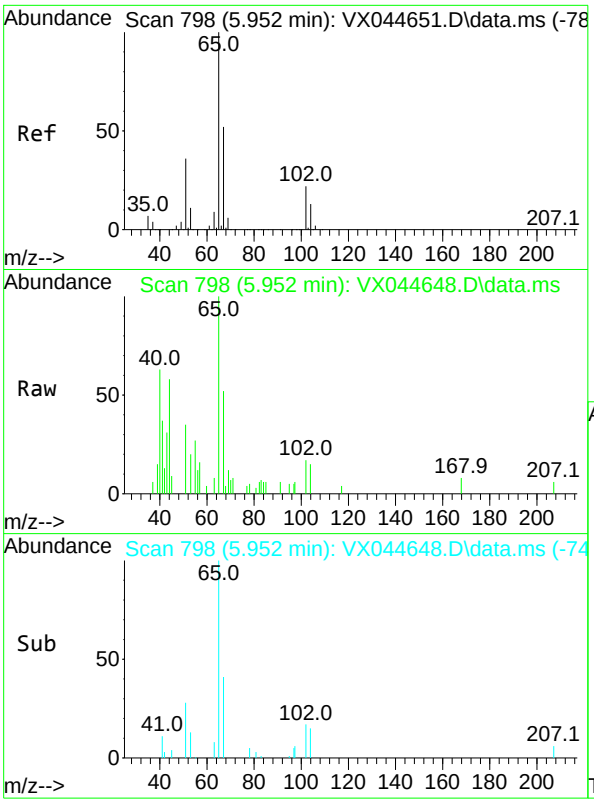




#32
1,1,1-Trichloroethane
Concen: 1.278 ug/l
RT: 5.379 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 97 Resp: 5968

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 0.0 | 51.6 | 77.4# |
| 61 | 37.6 | 35.6 | 53.4 |



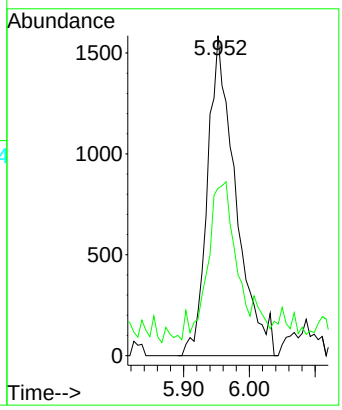


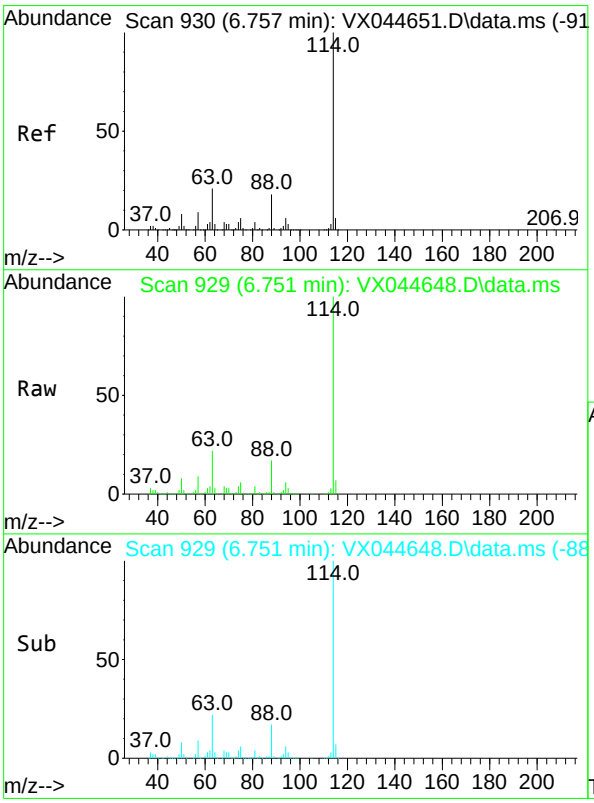

#33
1,2-Dichloroethane-d4
Concen: 1.460 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 65 Resp: 4722

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 43.1 | 0.0 | 103.4 |

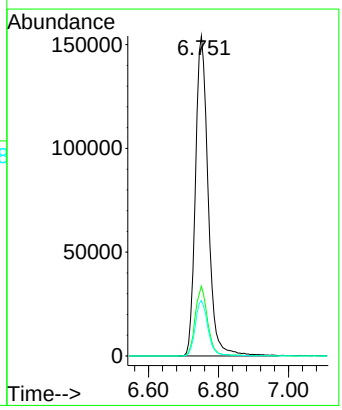


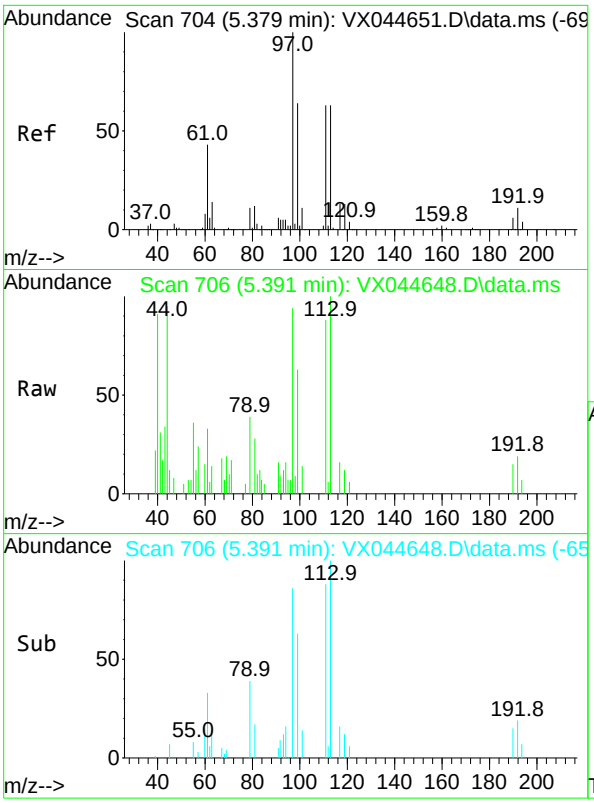




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:114 Resp: 389452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.8 | 0.0 | 43.0 |
| 88 | 17.4 | 0.0 | 35.4 |



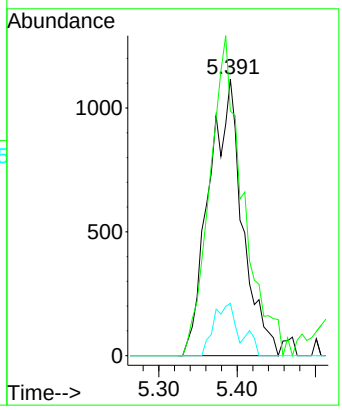


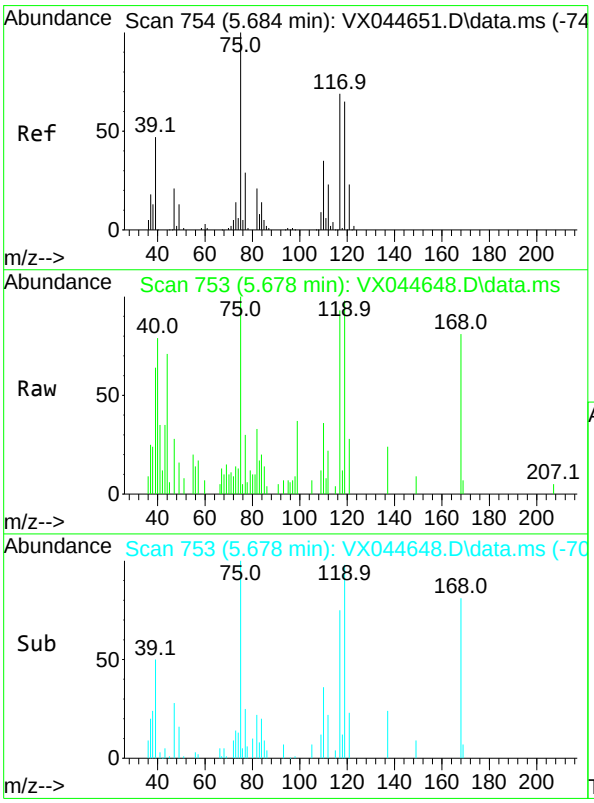

#35
Dibromofluoromethane
Concen: 1.338 ug/l
RT: 5.391 min Scan# 7
Delta R.T. 0.012 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:113 Resp: 3311

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 115.5 | 81.6 | 122.4 |
| 192 | 12.1 | 14.4 | 21.6# |

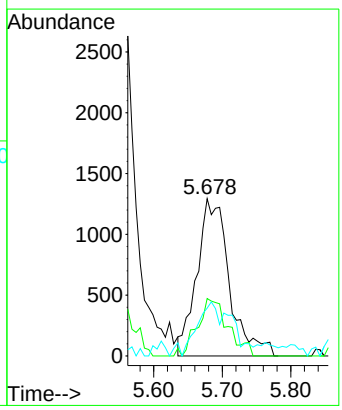


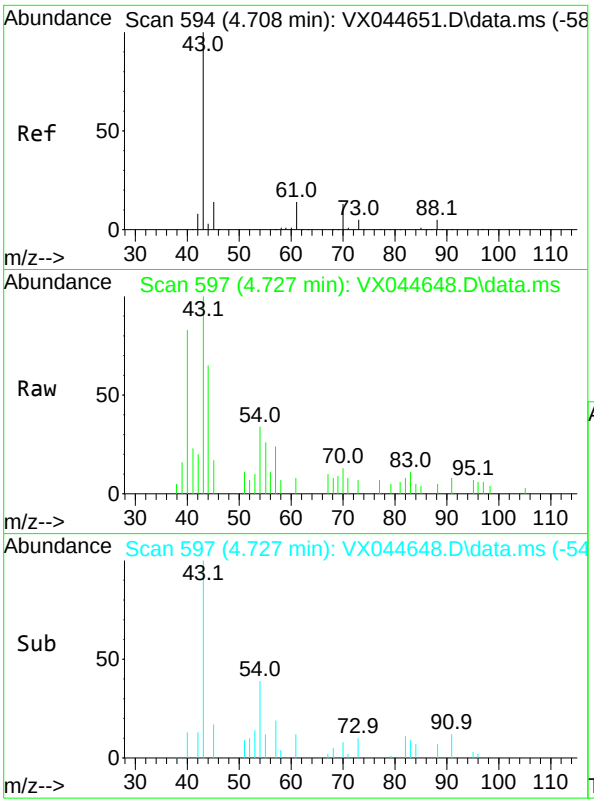




#36
1,1-Dichloropropene
Concen: 1.232 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 75 Resp: 4243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.5 | 17.9 | 53.8 |
| 77 | 22.1 | 24.5 | 36.7# |



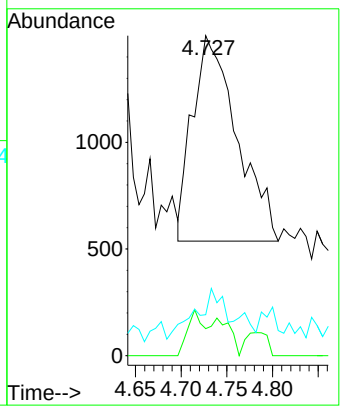


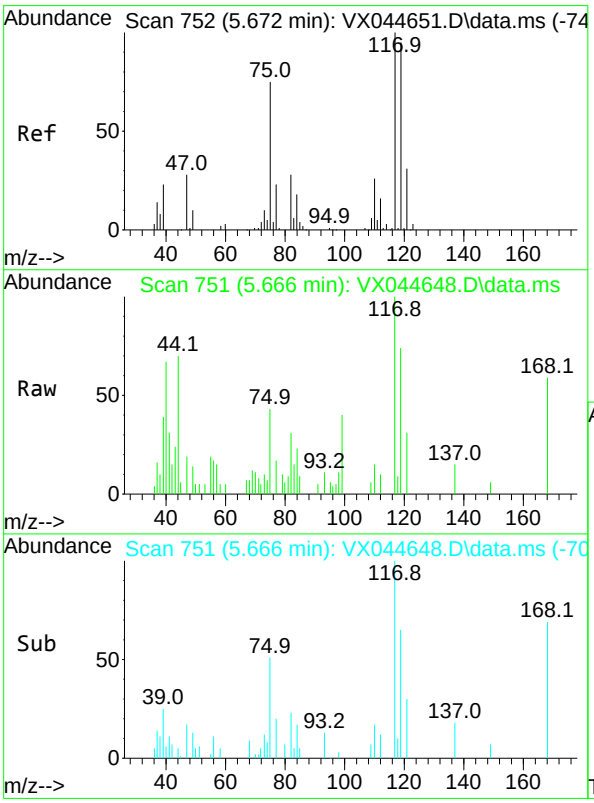

#37
Ethyl Acetate
Concen: 0.891 ug/l
RT: 4.727 min Scan# 5
Delta R.T. 0.019 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 3269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 7.9 | 10.9 | 16.3# |
| 70 | 16.0 | 10.1 | 15.1# |

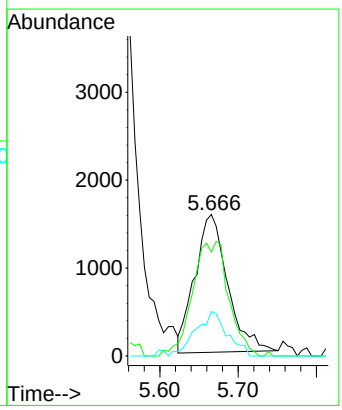


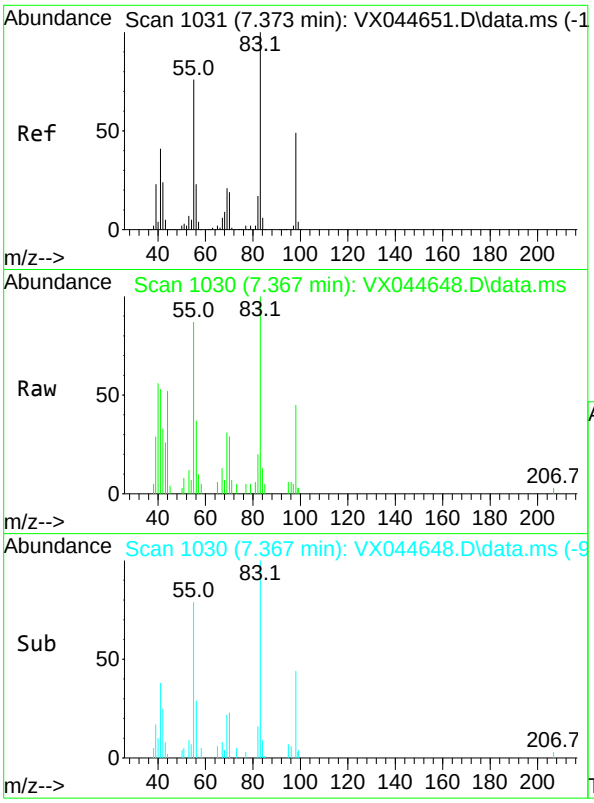




#38
Carbon Tetrachloride
Concen: 1.177 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:117 Resp: 4558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 76.4 | 76.0 | 114.0 |
| 121 | 32.5 | 24.6 | 36.8 |



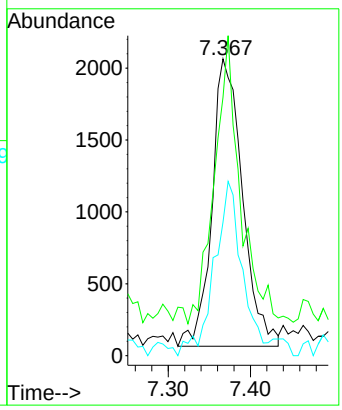


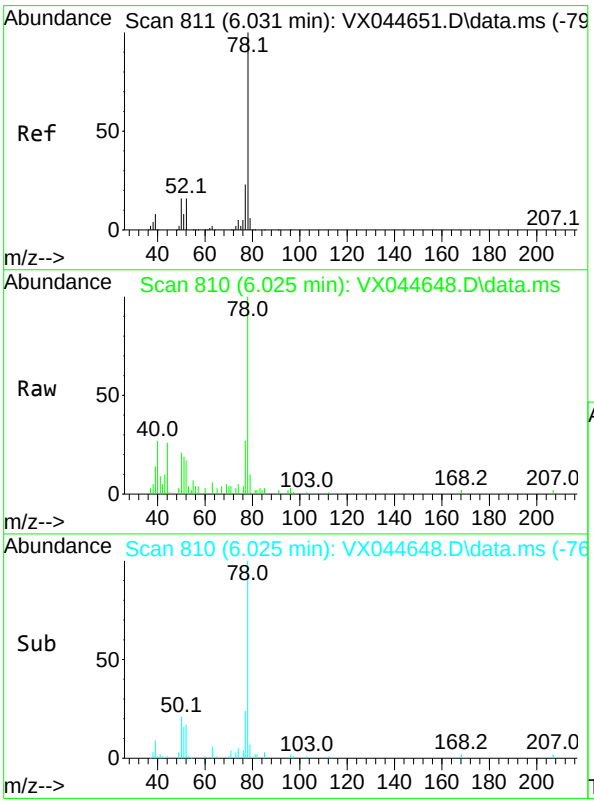

#39
Methylcyclohexane
Concen: 1.128 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 83 Resp: 5156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.8 | 60.5 | 90.7 |
| 98 | 46.4 | 39.0 | 58.4 |

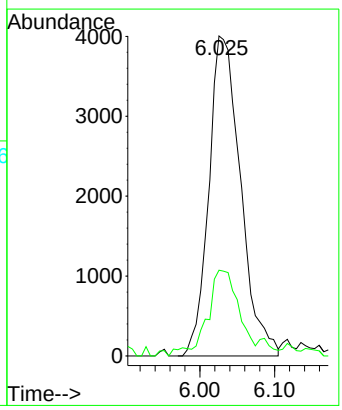


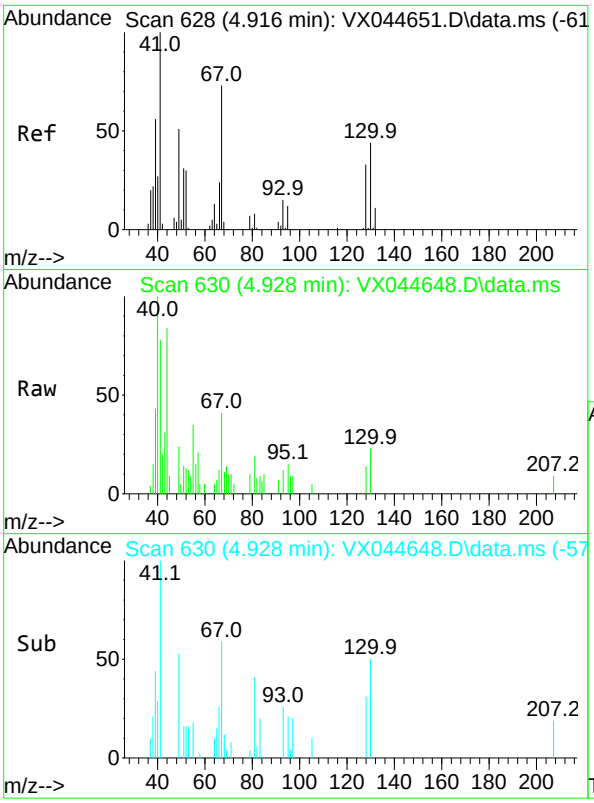




#40
Benzene
Concen: 1.107 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 78 Resp: 11813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.1 | 18.7 | 28.1 |



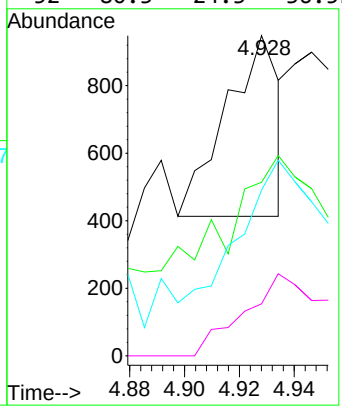


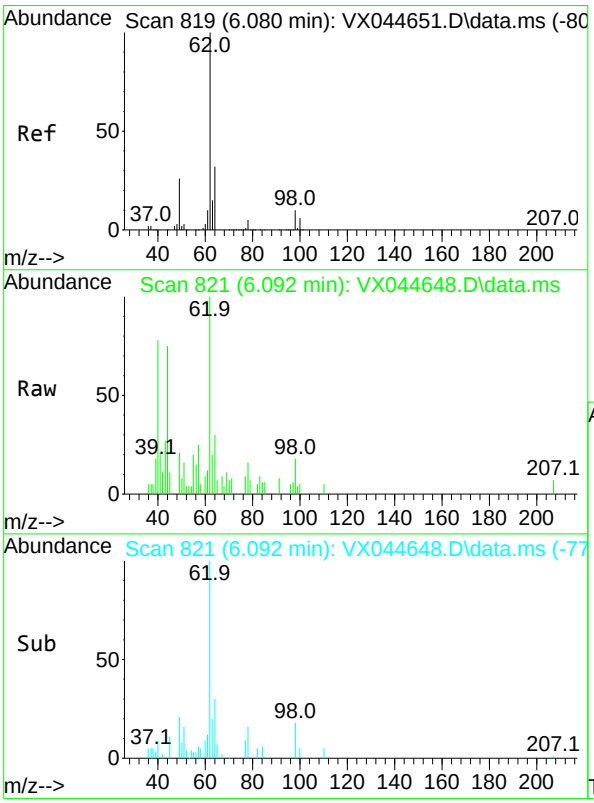

#41
Methacrylonitrile
Concen: 0.339 ug/l
RT: 4.928 min Scan# 6
Delta R.T. 0.012 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 41 Resp: 725

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 94.5 | 44.4 | 66.6# |
| 67 | 200.1 | 60.6 | 90.8# |
| 52 | 80.3 | 24.3 | 36.5# |

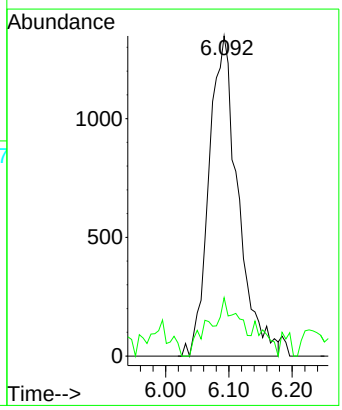


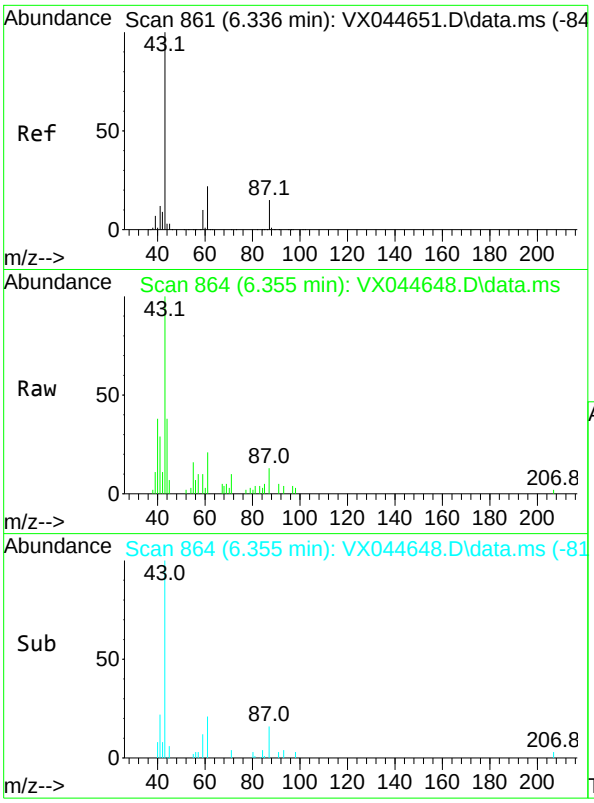




#42
1,2-Dichloroethane
Concen: 1.104 ug/l
RT: 6.092 min Scan# 821
Delta R.T. 0.012 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 62 Resp: 4299

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 13.1 | 0.0 | 19.4 |



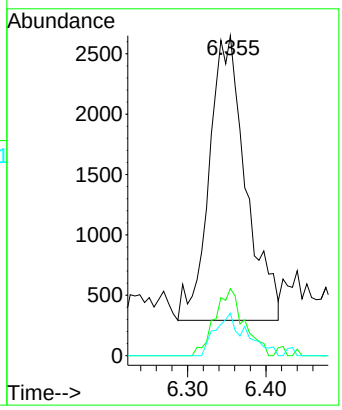


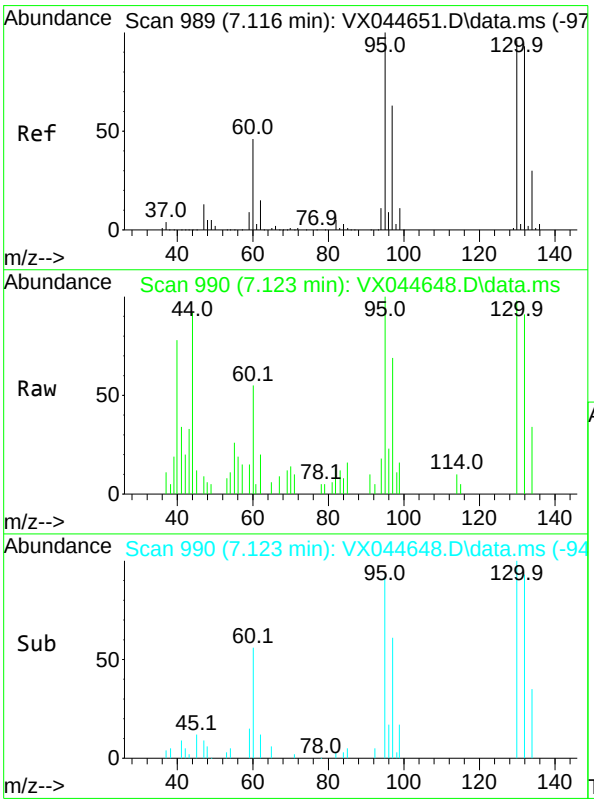

#43
Isopropyl Acetate
Concen: 1.132 ug/l
RT: 6.355 min Scan# 8
Delta R.T. 0.018 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 7640

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 18.9 | 16.6 | 24.8 |
| 87 | 12.6 | 11.0 | 16.6 |

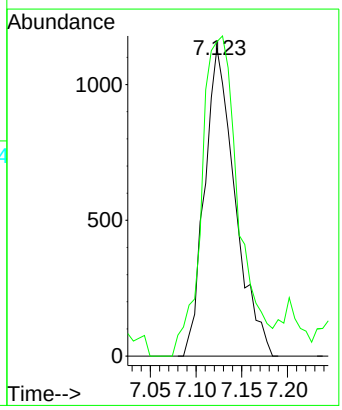


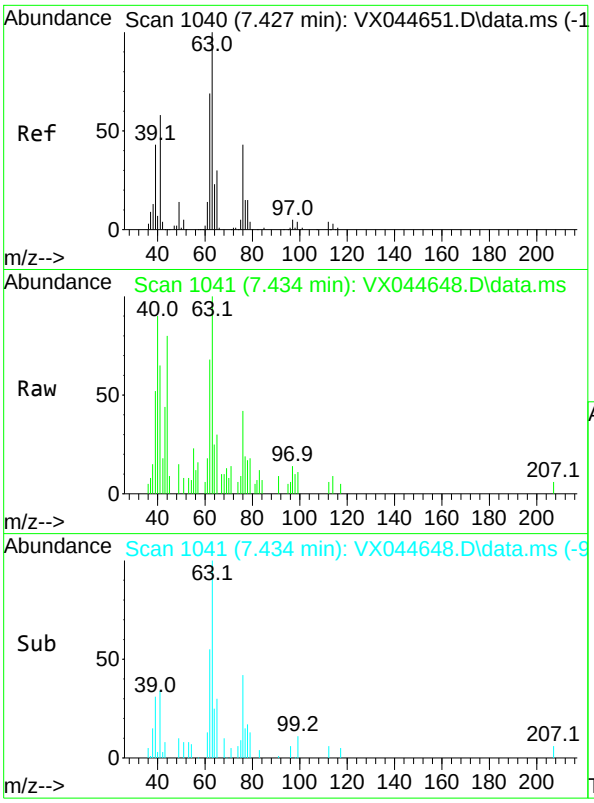




#44
Trichloroethene
Concen: 1.026 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:130 Resp: 2633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 95.2 | 0.0 | 208.2 |



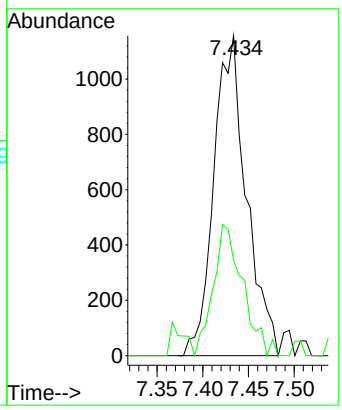


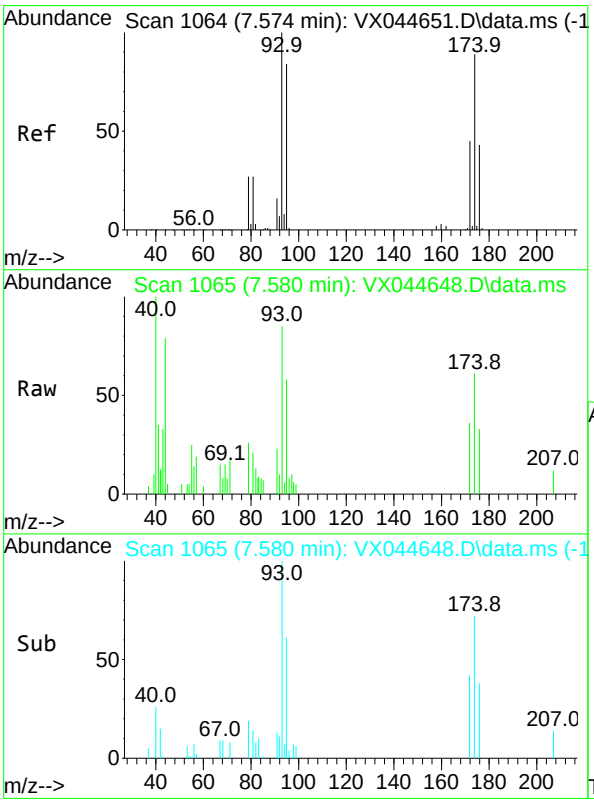

#45
1,2-Dichloropropane
Concen: 1.064 ug/l
RT: 7.434 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 63 Resp: 2857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.8 | 24.2 | 36.2 |

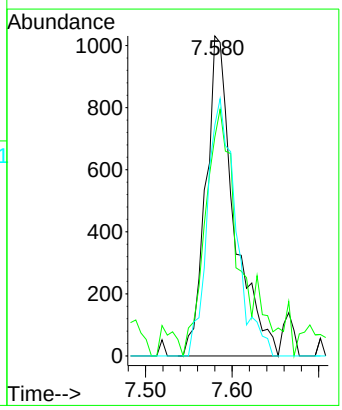


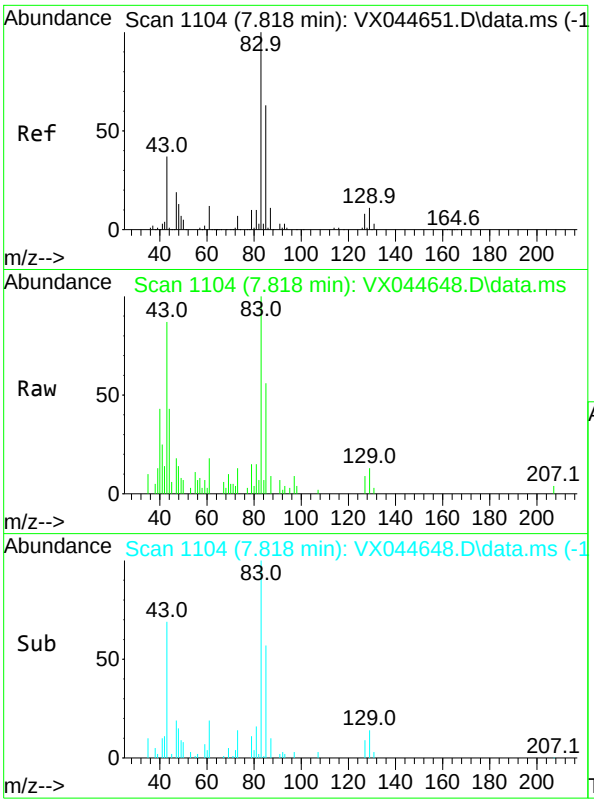




#46
Dibromomethane
Concen: 1.143 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 93 Resp: 2337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 81.0 | 66.4 | 99.6 |
| 174 | 81.3 | 72.0 | 108.0 |



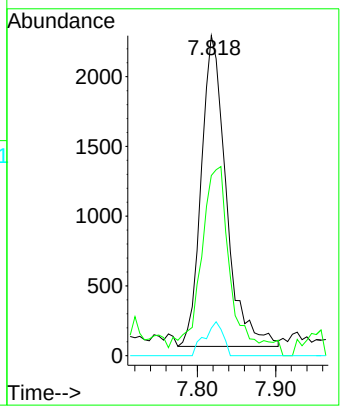


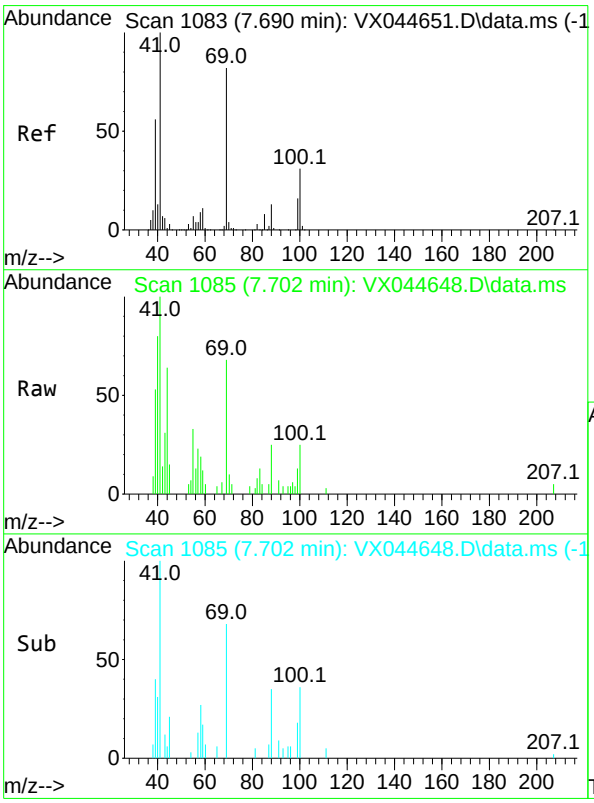

#47
Bromodichloromethane
Concen: 1.177 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 83 Resp: 4937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 53.1 | 50.1 | 75.1 |
| 127 | 8.8 | 6.5 | 9.7 |

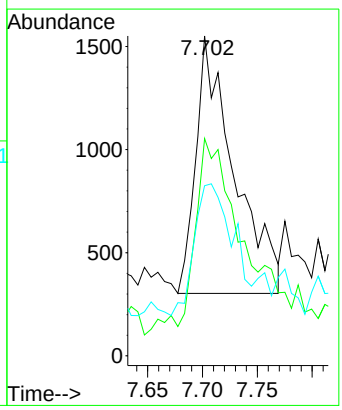


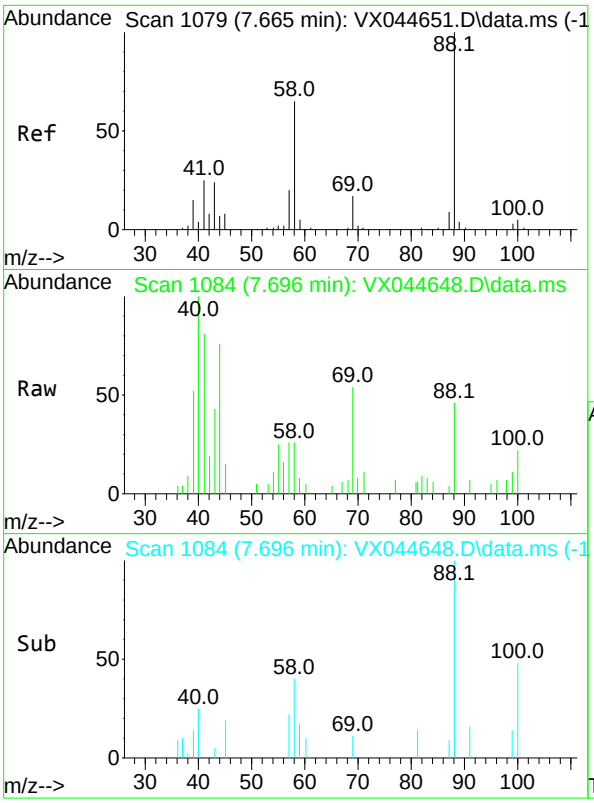




#48
Methyl methacrylate
Concen: 0.967 ug/l
RT: 7.702 min Scan# 1085
Delta R.T. 0.012 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 41 Resp: 3029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 91.2 | 66.8 | 100.2 |
| 39 | 51.7 | 47.4 | 71.0 |



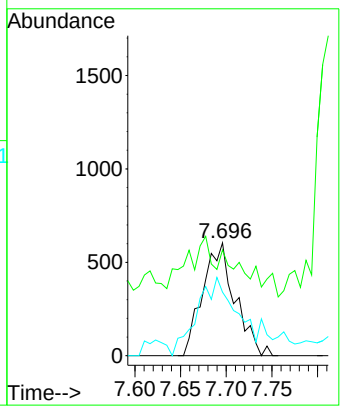


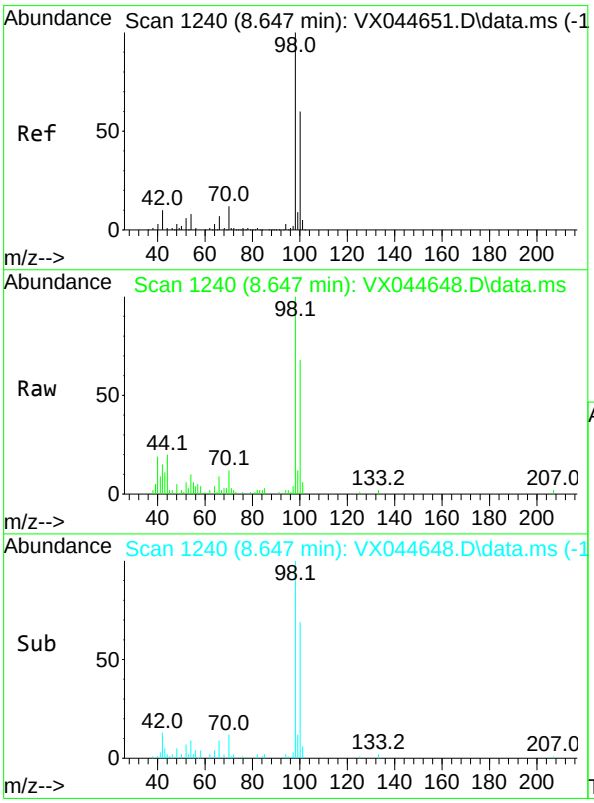

#49
1,4-Dioxane
Concen: 22.727 ug/l
RT: 7.696 min Scan# 1
Delta R.T. 0.031 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 88 Resp: 1485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.9 | 27.0 | 40.4 |
| 58 | 85.0 | 55.8 | 83.8# |

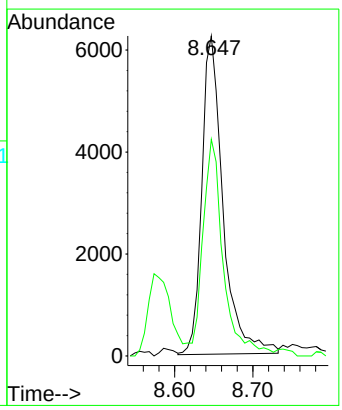


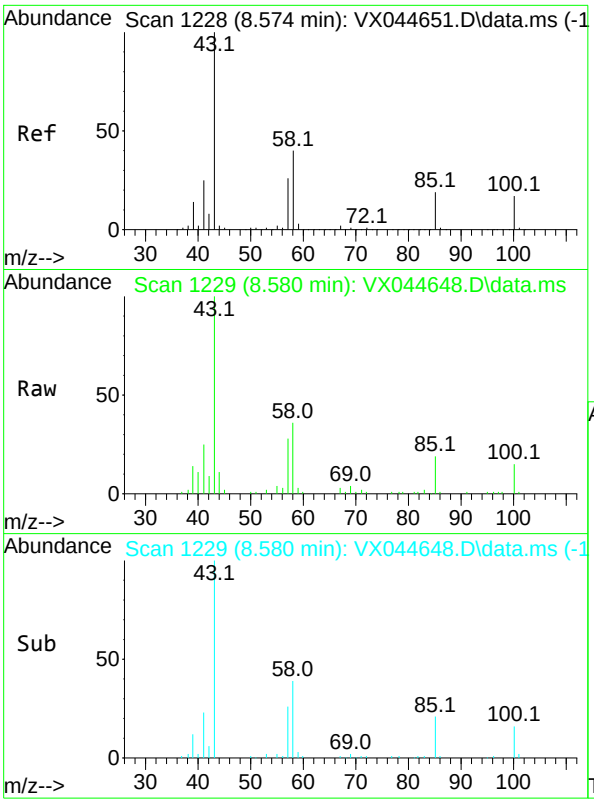




#50
Toluene-d8
Concen: 1.358 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 98 Resp: 11717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.2 | 53.2 | 79.8 |



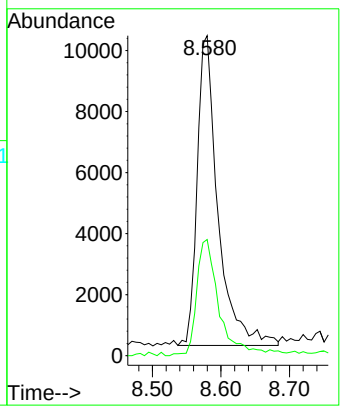


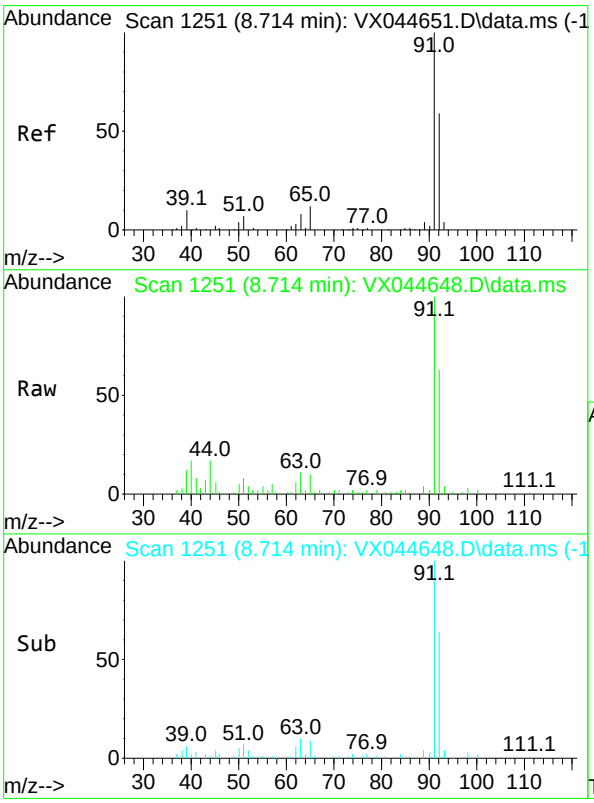

#51
4-Methyl-2-Pentanone
Concen: 5.736 ug/l
RT: 8.580 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 21388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.0 | 31.9 | 47.9 |

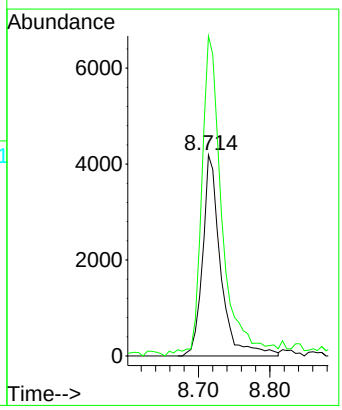


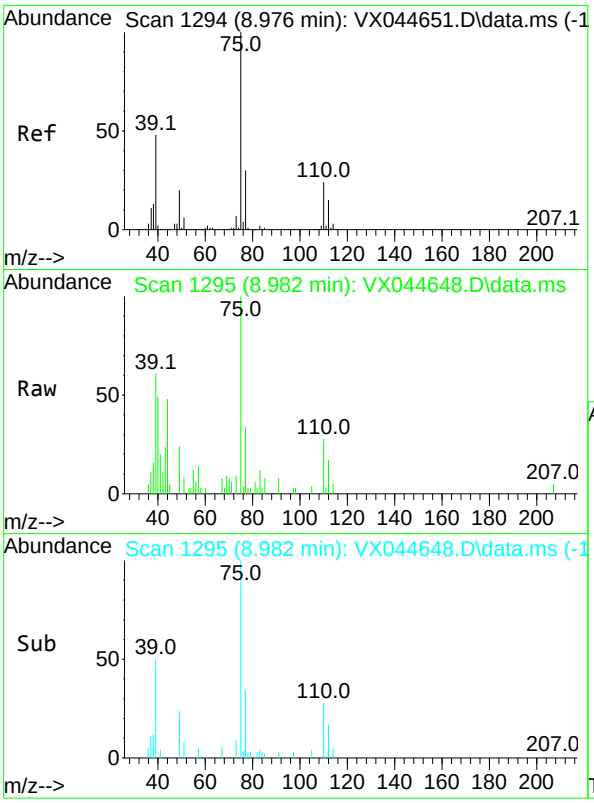




#52
Toluene
Concen: 1.122 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 92 Resp: 7332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 178.6 | 135.7 | 203.5 |



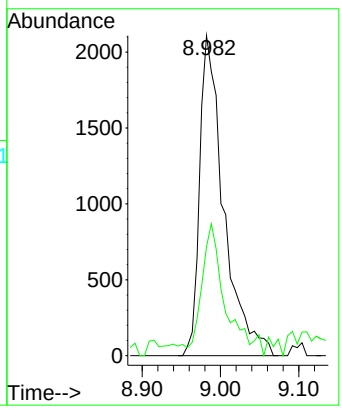


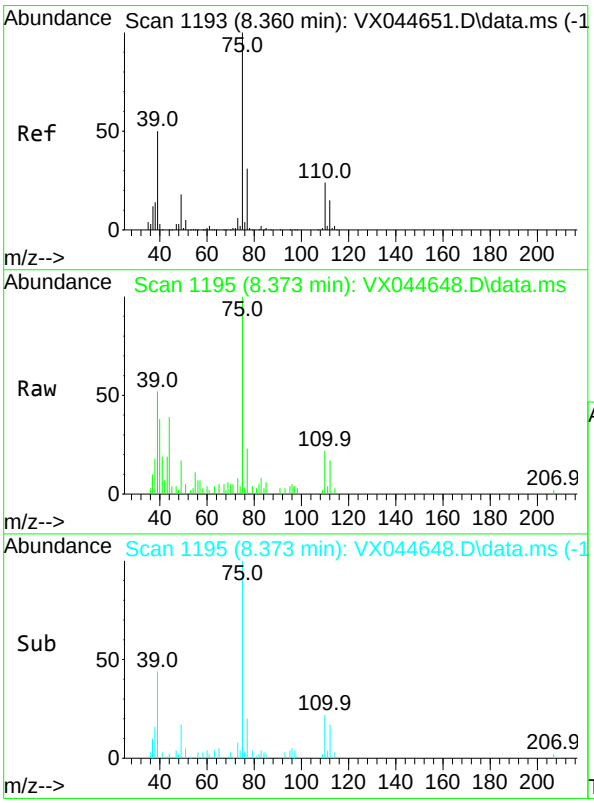

#53
t-1,3-Dichloropropene
Concen: 1.038 ug/l
RT: 8.982 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 75 Resp: 4499

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 24.4 | 36.6 |

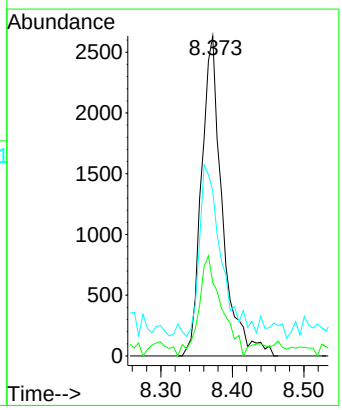


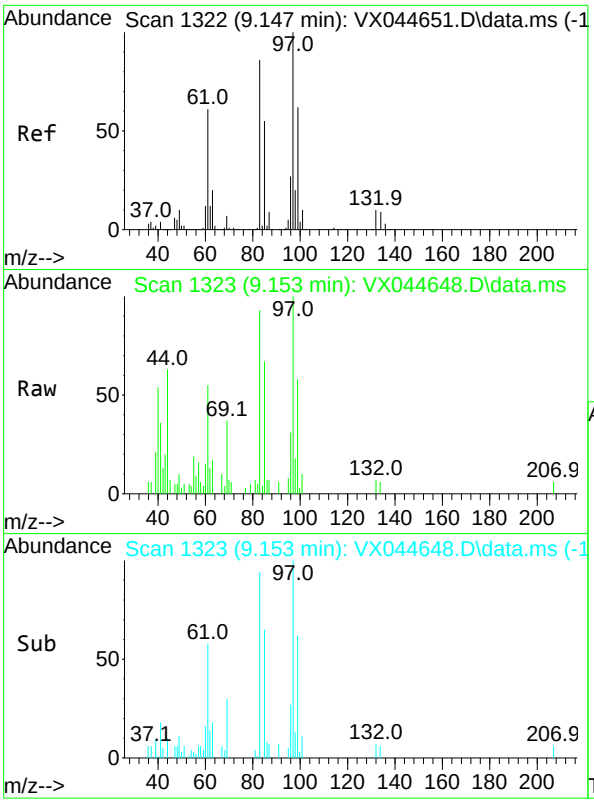




#54
cis-1,3-Dichloropropene
Concen: 1.134 ug/l
RT: 8.373 min Scan# 1195
Delta R.T. 0.012 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 75 Resp: 5328

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 23.0 | 25.1 | 37.7# |
| 39 | 42.1 | 40.3 | 60.5 |



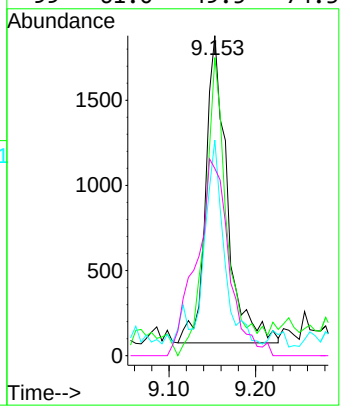


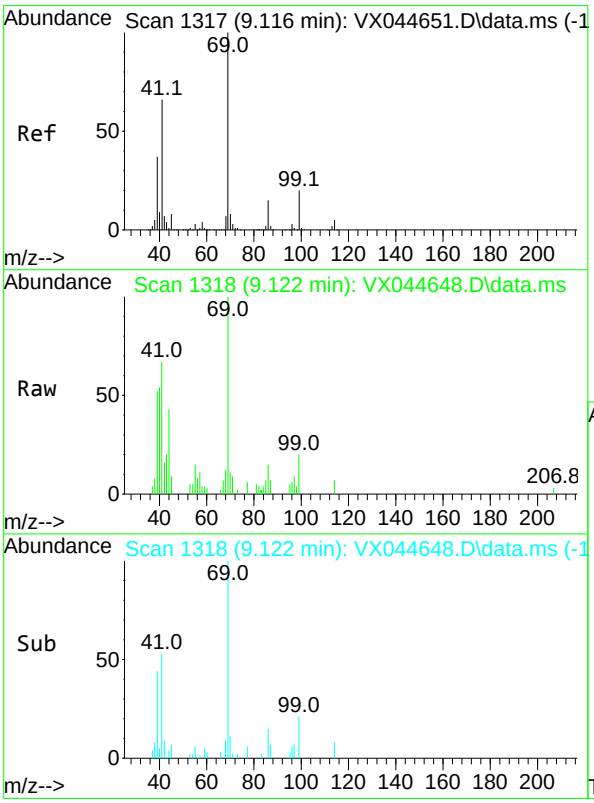

#55
1,1,2-Trichloroethane
Concen: 1.182 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 97 Resp: 3124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 97.1 | 68.8 | 103.2 |
| 85 | 63.4 | 43.7 | 65.5 |
| 99 | 61.0 | 49.5 | 74.3 |

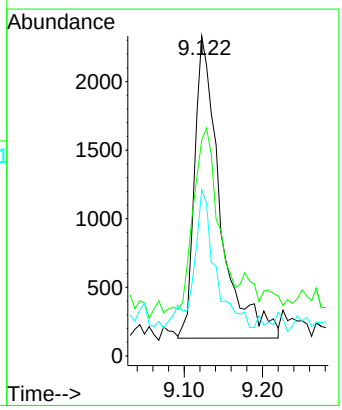


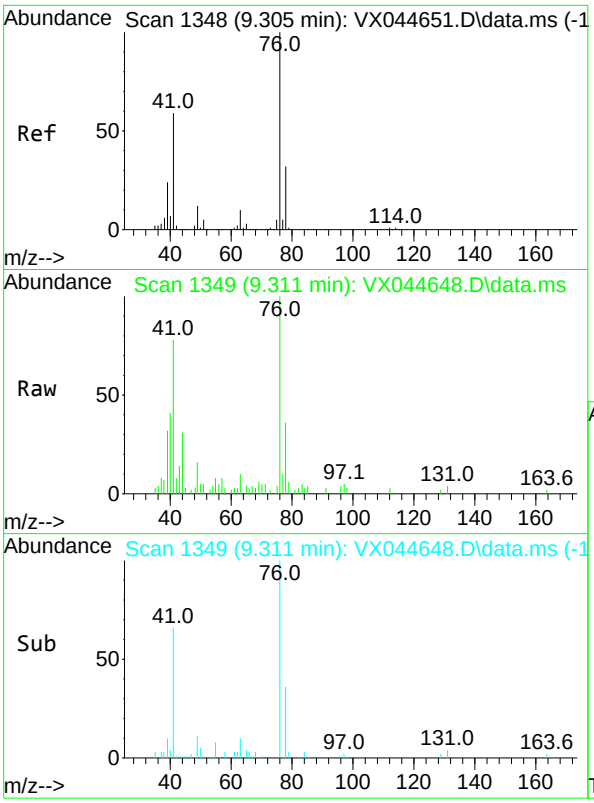




#56
Ethyl methacrylate
Concen: 1.099 ug/l
RT: 9.122 min Scan# 1318
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 69 Resp: 4994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 56.4 | 53.2 | 79.8 |
| 39 | 41.7 | 30.2 | 45.2 |



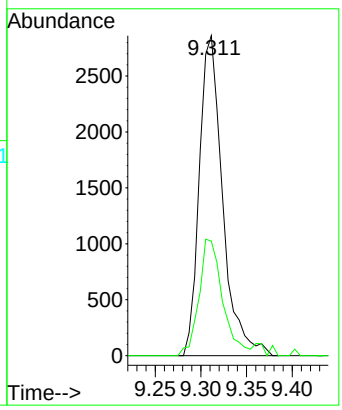


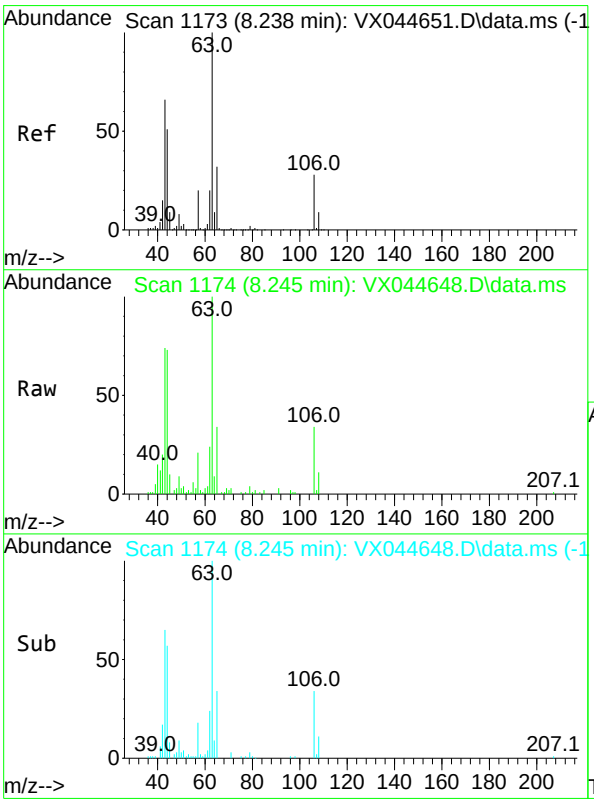

#57
1,3-Dichloropropane
Concen: 1.128 ug/l
RT: 9.311 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 76 Resp: 5078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 36.9 | 26.0 | 39.0 |

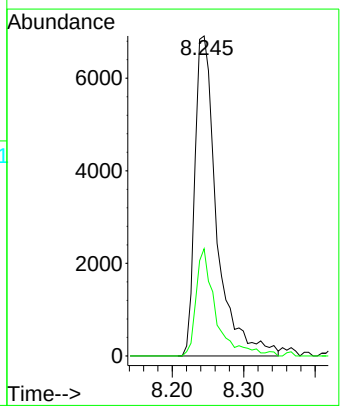


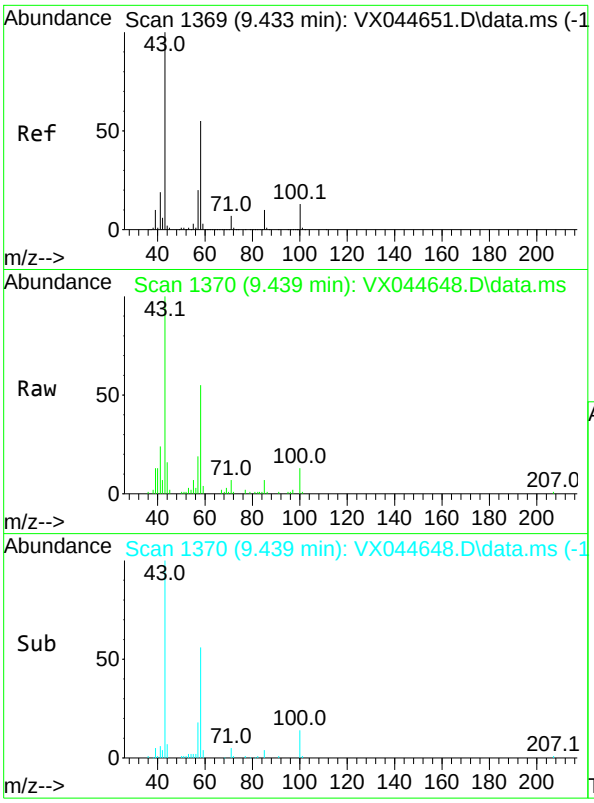




#58
2-Chloroethyl Vinyl ether
Concen: 6.581 ug/l
RT: 8.245 min Scan# 1174
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 63 Resp: 14681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.8 | 23.0 | 34.6 |



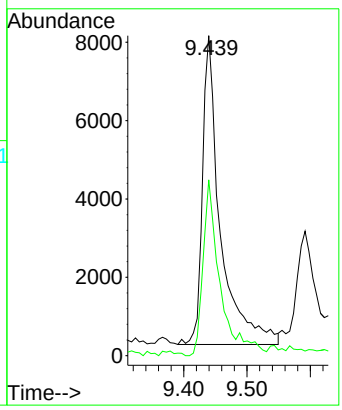


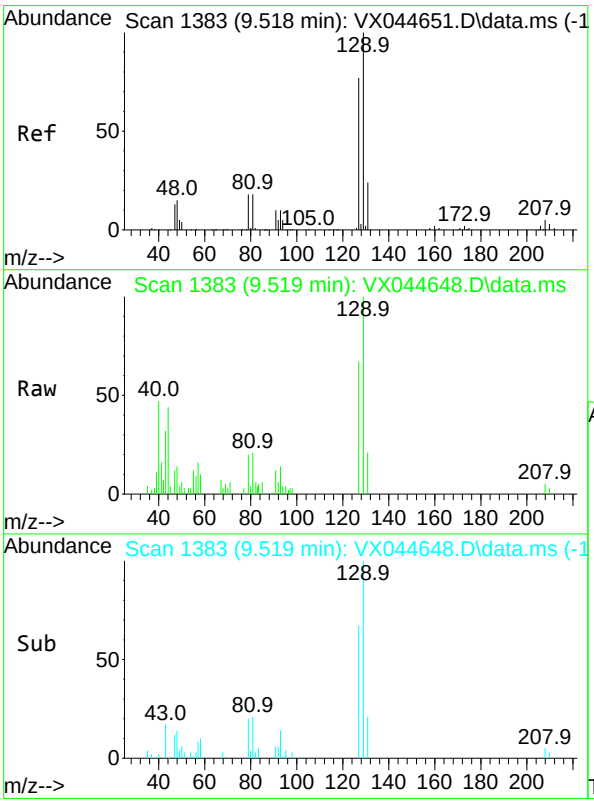

#59
2-Hexanone
Concen: 5.643 ug/l
RT: 9.439 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 43 Resp: 15480

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 54.4 | 27.8 | 83.3 |

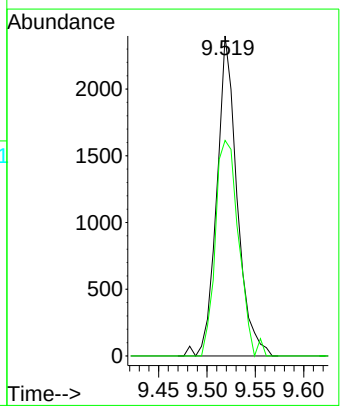


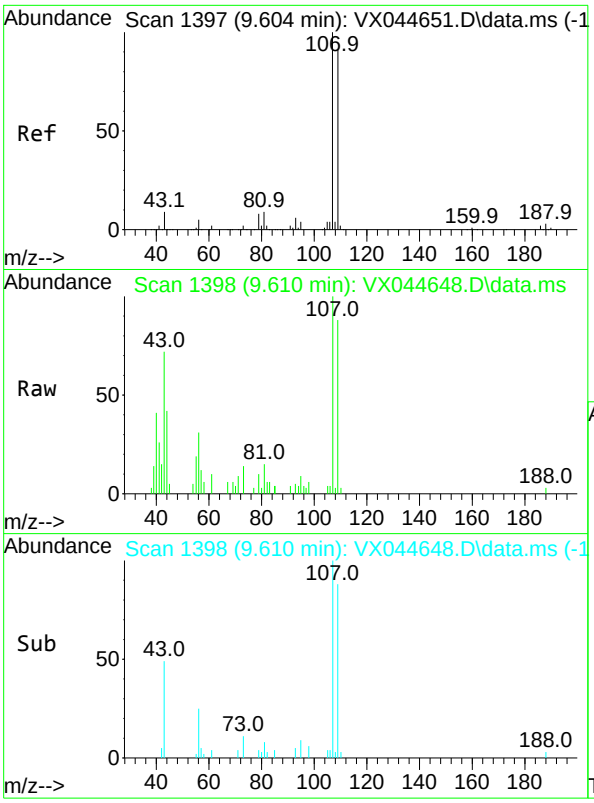




#60
Dibromochloromethane
Concen: 1.127 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:129 Resp: 3495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.3 | 38.5 | 115.5 |



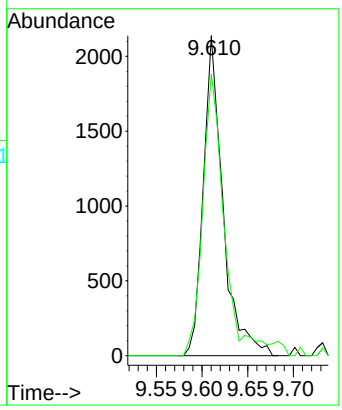


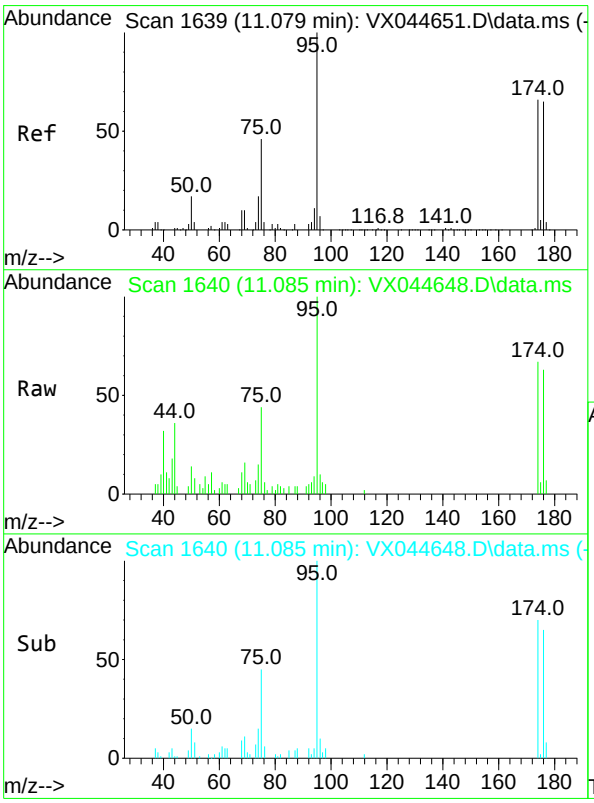

#61
1,2-Dibromoethane
Concen: 1.155 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:107 Resp: 3200

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 98.2 | 75.3 | 112.9 |

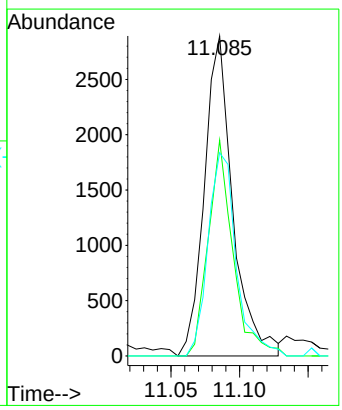


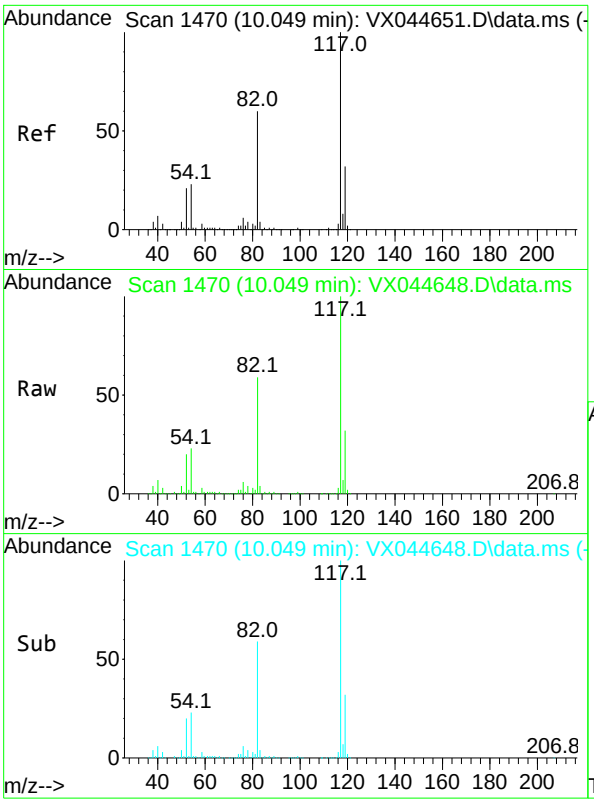




#62
4-Bromofluorobenzene
Concen: 1.298 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 95 Resp: 4174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 58.8 | 0.0 | 133.0 |
| 176 | 63.0 | 0.0 | 129.4 |



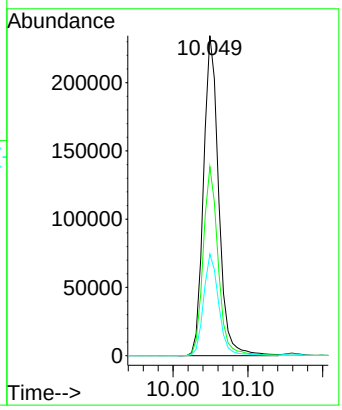


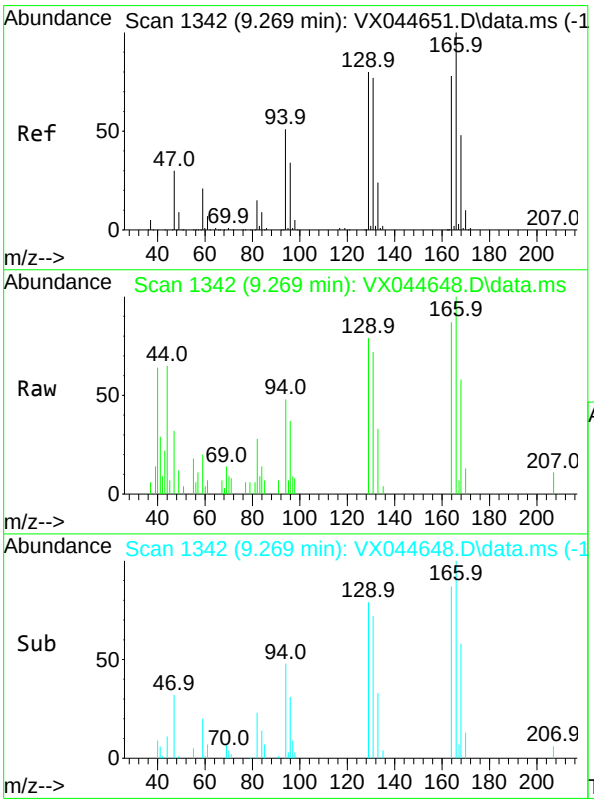

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:117 Resp: 329917

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.0 | 47.6 | 71.4 |
| 119 | 31.7 | 25.4 | 38.2 |

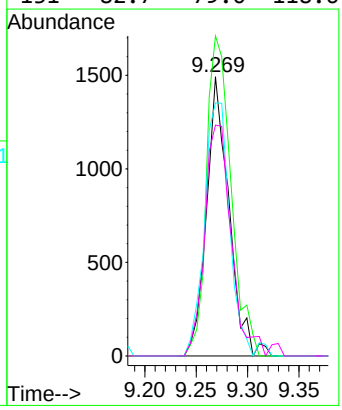


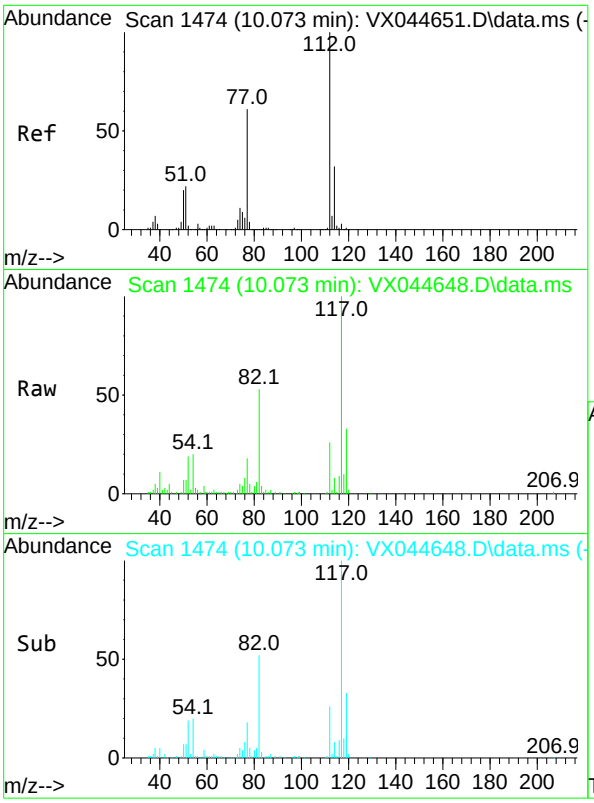




#64
Tetrachloroethene
Concen: 1.101 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:164 Resp: 2280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 114.6 | 102.0 | 153.0 |
| 129 | 90.7 | 81.1 | 121.7 |
| 131 | 82.7 | 79.0 | 118.6 |



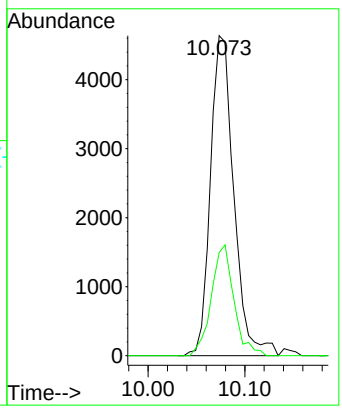


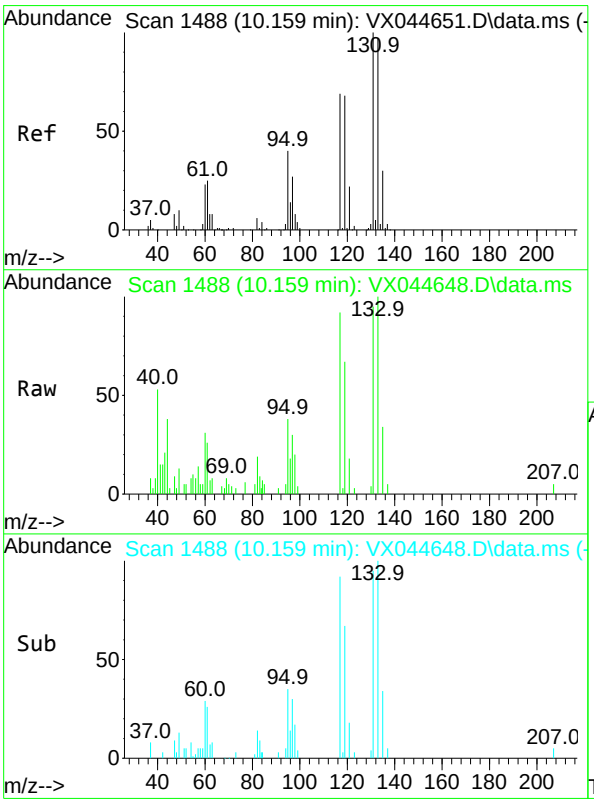

#65
Chlorobenzene
Concen: 1.109 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:112 Resp: 7770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.2 | 25.3 | 37.9 |

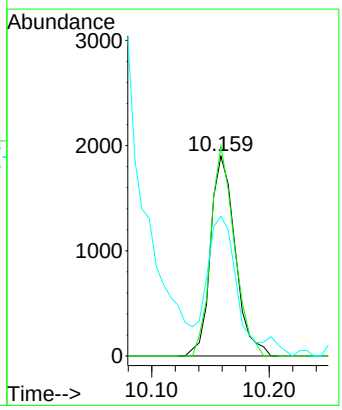


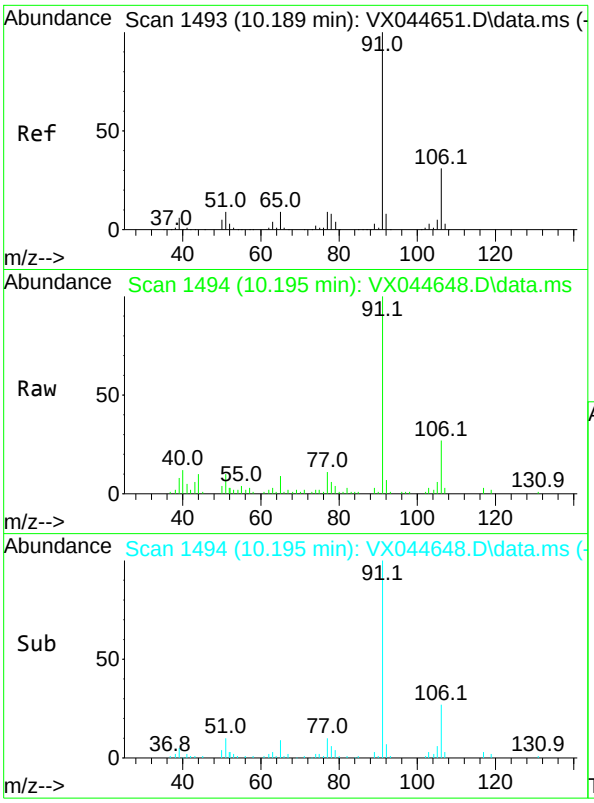




#66
1,1,1,2-Tetrachloroethane
Concen: 1.087 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:131 Resp: 2769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 100.8 | 47.8 | 143.3 |
| 119 | 0.0 | 33.4 | 100.2# |



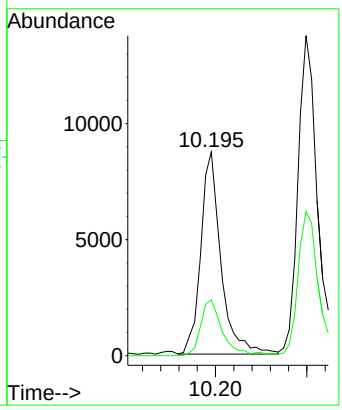


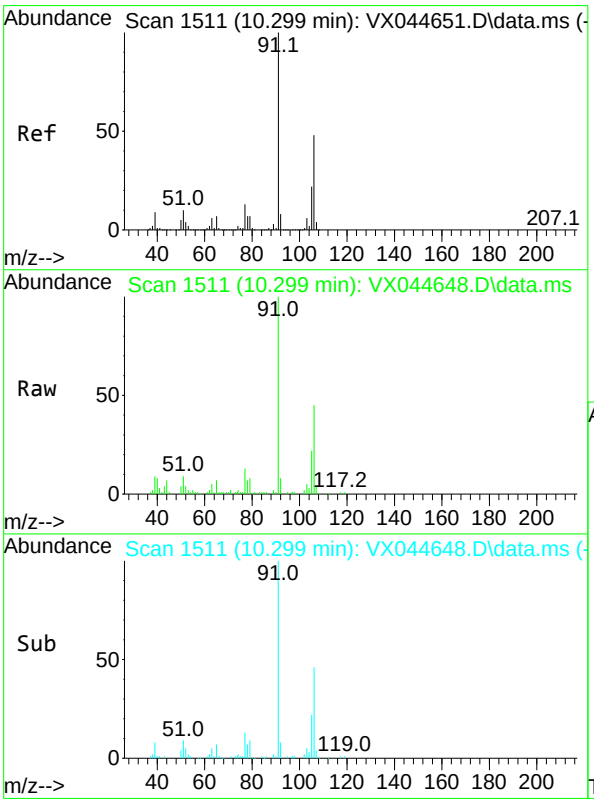

#67
Ethyl Benzene
Concen: 1.093 ug/l
RT: 10.195 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 91 Resp: 13366

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 27.6 | 25.0 | 37.6 |

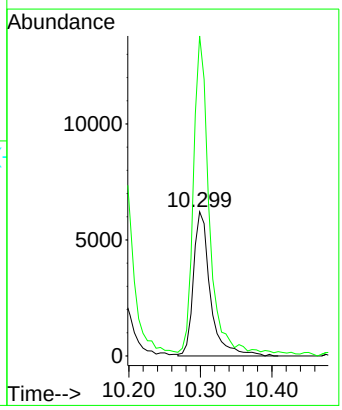


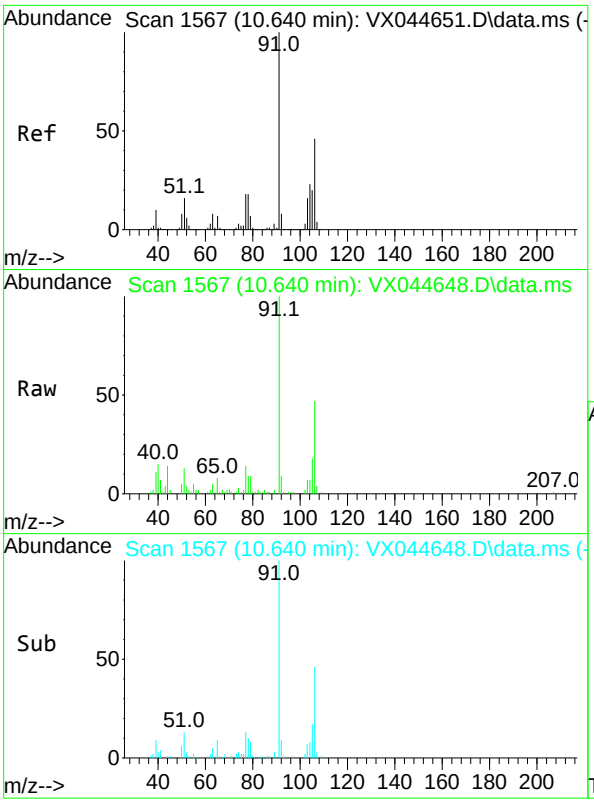




#68
m/p-Xylenes
Concen: 2.244 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:106 Resp: 10180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.4 | 166.4 | 249.6 |



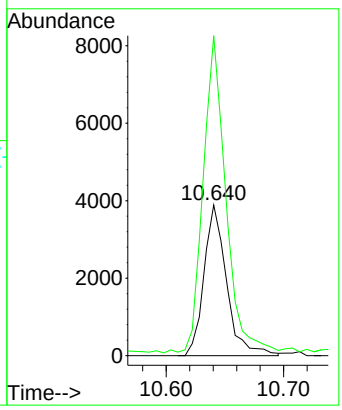


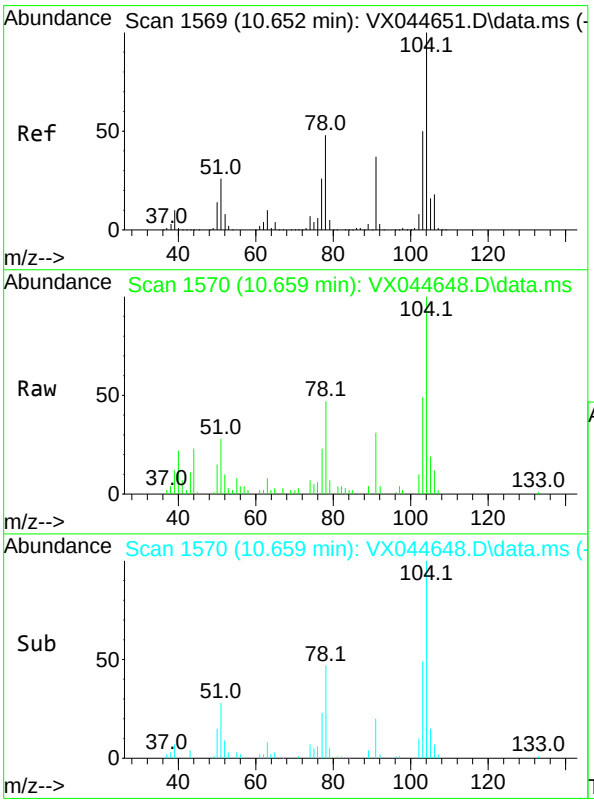

#69
o-Xylene
Concen: 1.132 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:106 Resp: 5193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 213.5 | 108.7 | 326.3 |

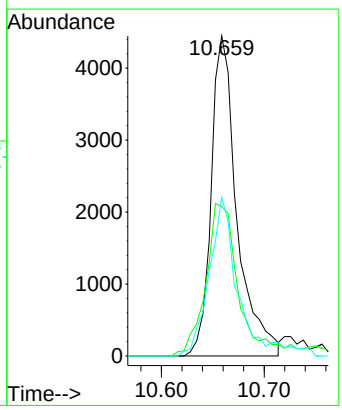


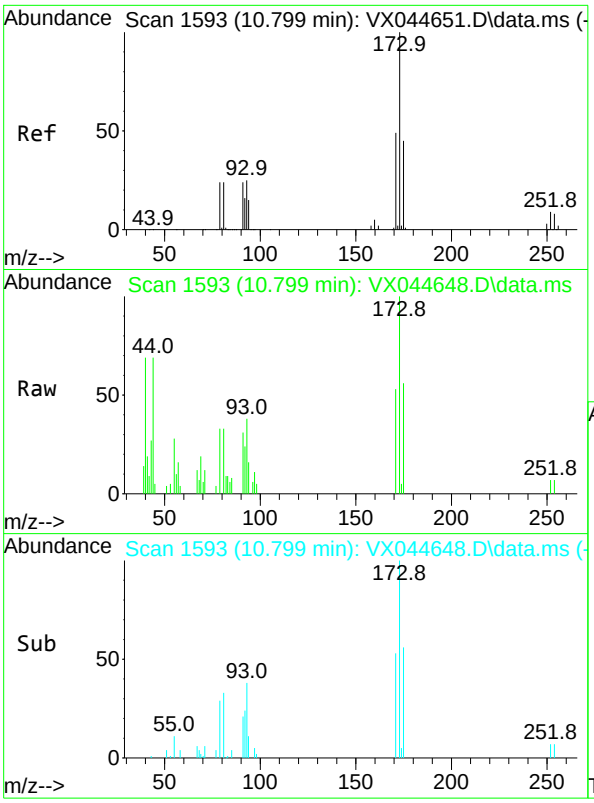




#70
Styrene
Concen: 1.044 ug/l
RT: 10.659 min Scan# 1570
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:104 Resp: 7732

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 61.6 | 43.0 | 64.6 |
| 103 | 56.1 | 43.4 | 65.2 |



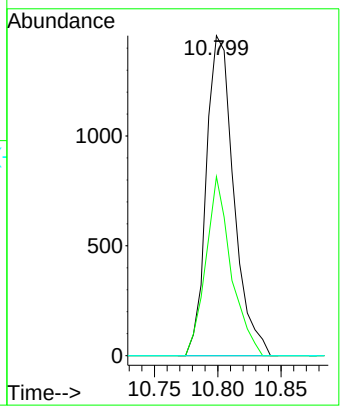


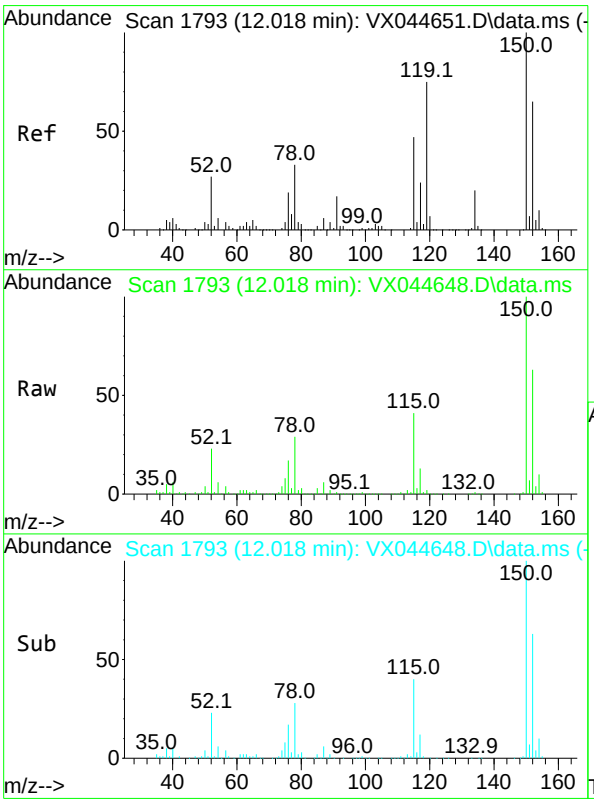

#71
Bromoform
Concen: 1.058 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:173 Resp: 2194

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 51.7 | 23.6 | 70.8 |
| 254 | 0.0 | 0.1 | 0.1# |

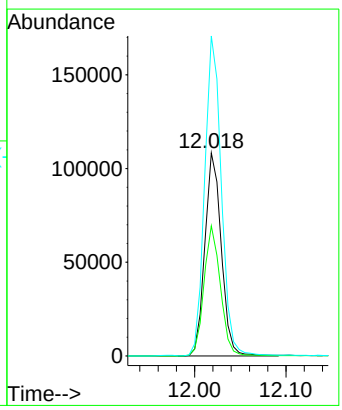


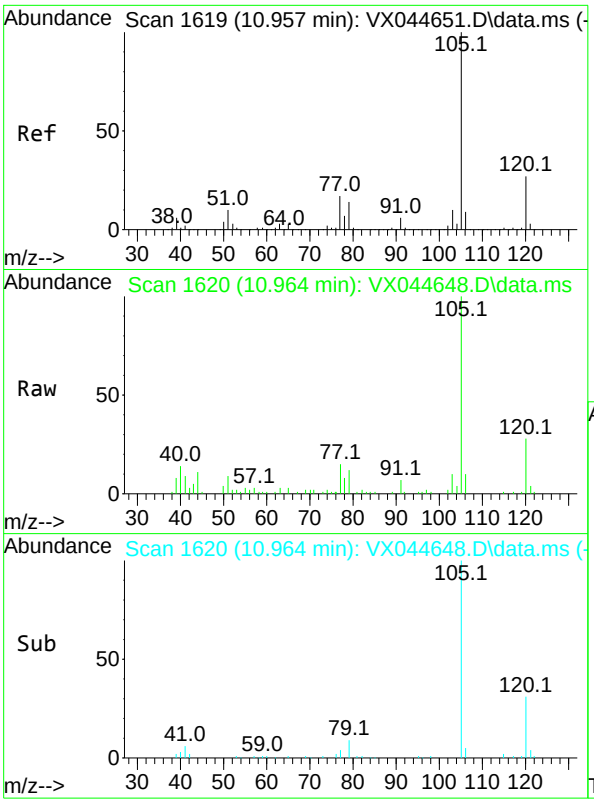




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:152 Resp: 135288

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 64.1 | 43.8 | 131.4 |
| 150 | 159.9 | 0.0 | 347.8 |



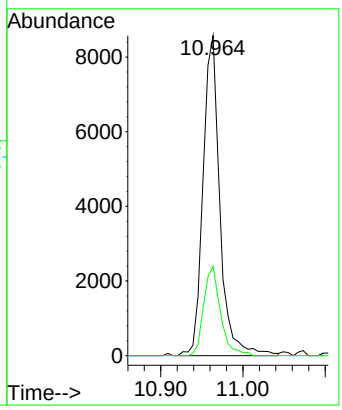


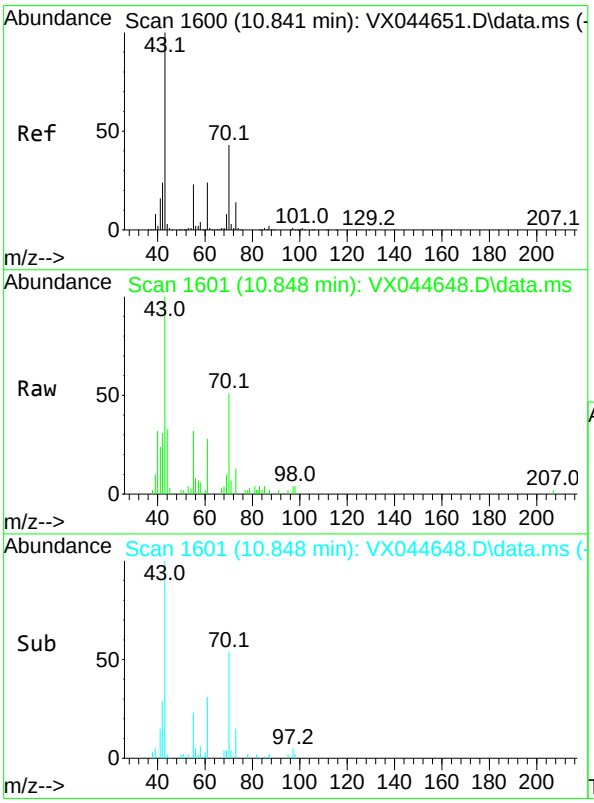

#73
Isopropylbenzene
Concen: 1.105 ug/l
RT: 10.964 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:105 Resp: 12214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 27.8 | 13.2 | 39.6 |

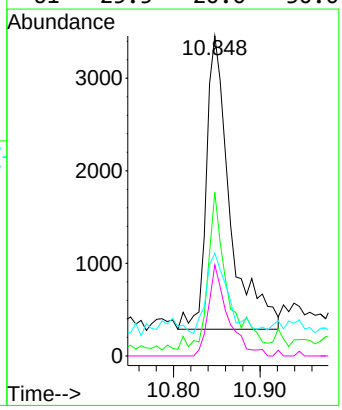


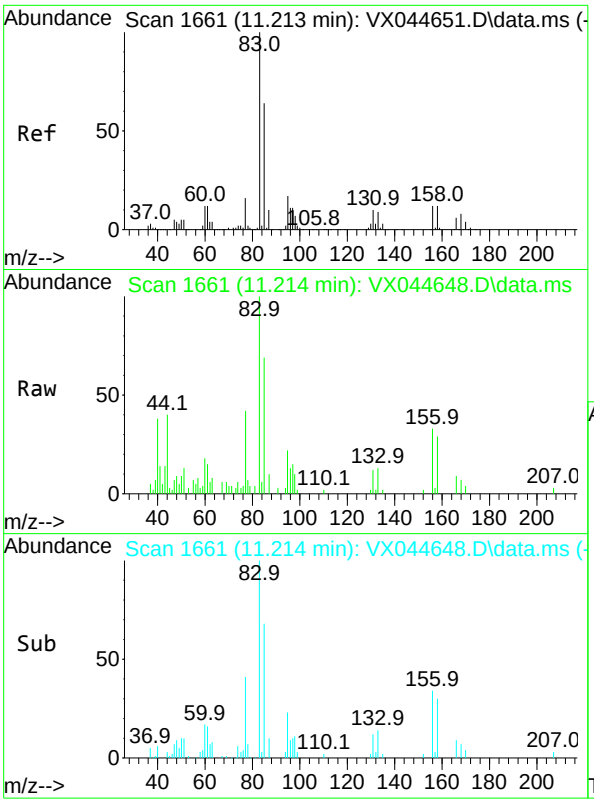




#74
N-amyl acetate
Concen: 1.107 ug/l
RT: 10.848 min Scan# 1601
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 43 Resp: 6028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 41.6 | 35.2 | 52.8 |
| 55 | 25.6 | 19.0 | 28.4 |
| 61 | 25.5 | 20.0 | 30.0 |



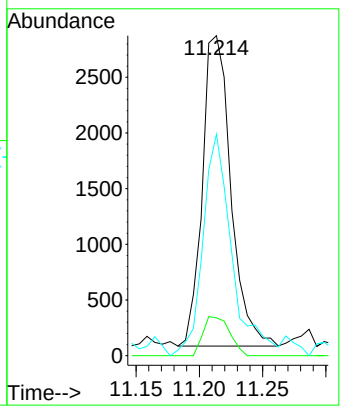


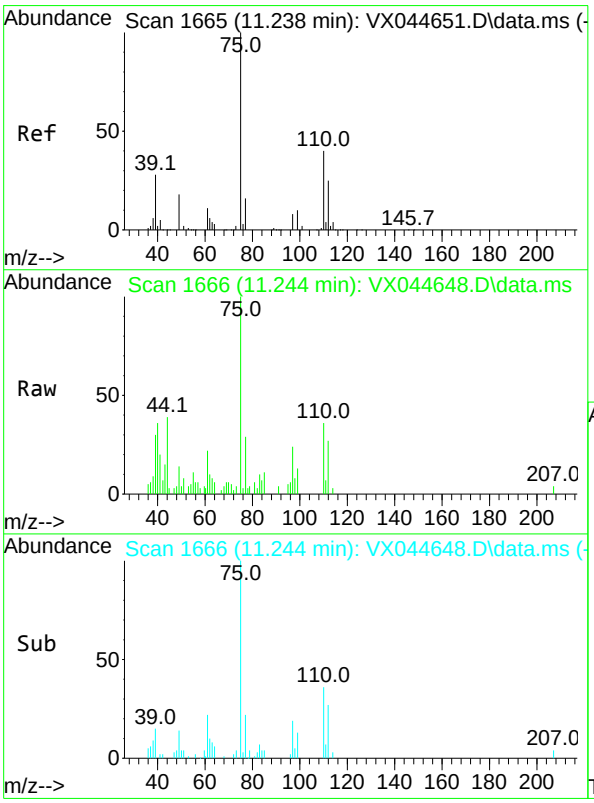

#75
1,1,2,2-Tetrachloroethane
Concen: 1.147 ug/l
RT: 11.214 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 83 Resp: 4377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 11.7 | 5.0 | 14.9 |
| 85 | 72.0 | 32.0 | 96.2 |

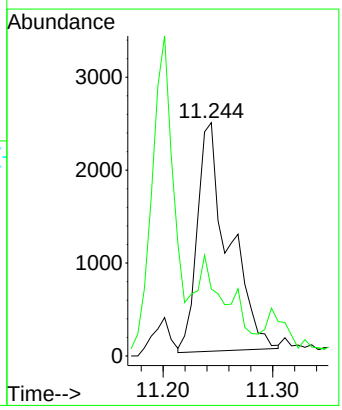


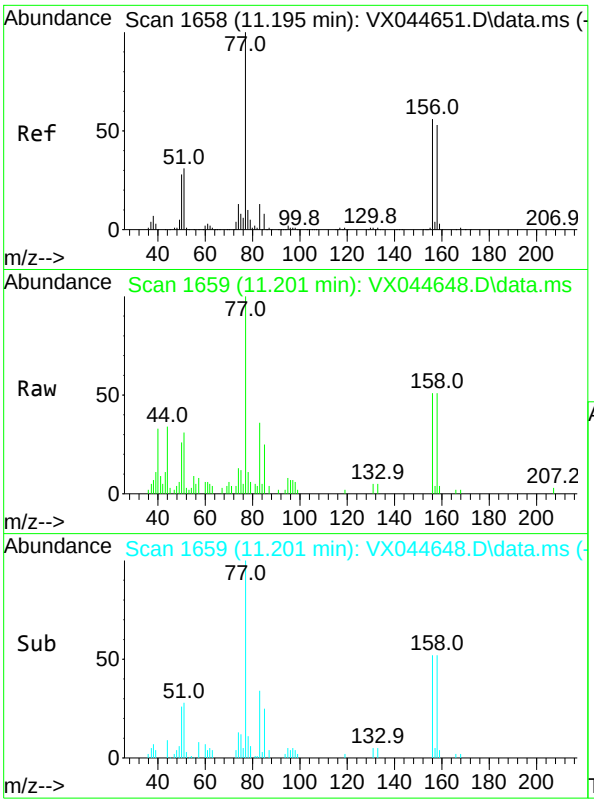




#76
1,2,3-Trichloropropane
Concen: 1.492 ug/l
RT: 11.244 min Scan# 1666
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 75 Resp: 4898

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 41.4 | 23.4 | 70.2 |



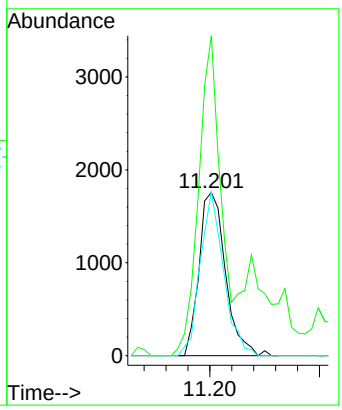


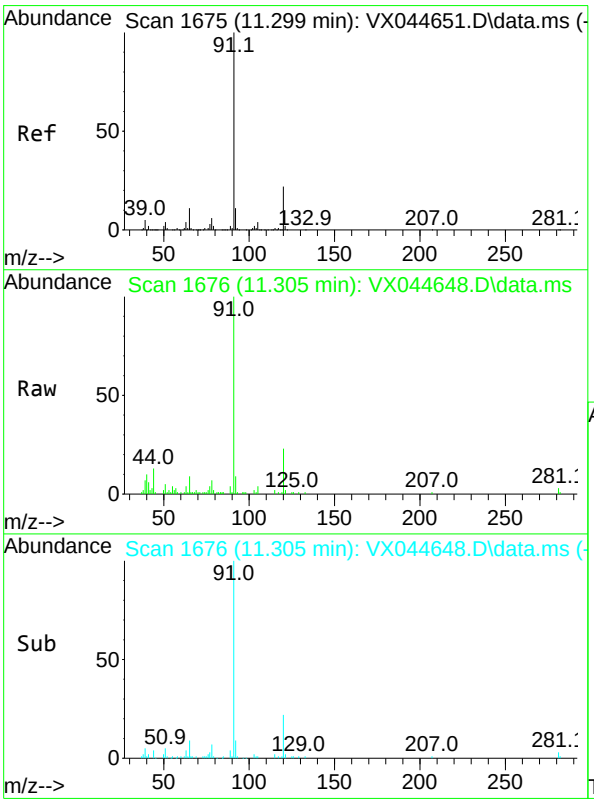

#77
Bromobenzene
Concen: 1.137 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:156 Resp: 2937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 170.8 | 90.3 | 271.0 |
| 158 | 89.3 | 48.4 | 145.3 |

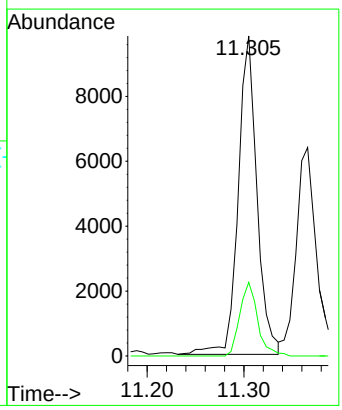


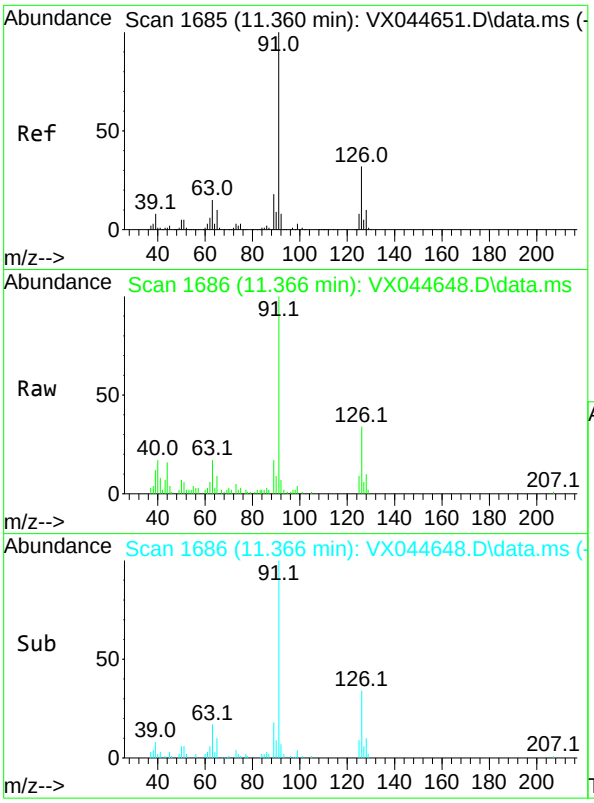




#78
n-propylbenzene
Concen: 1.088 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 91 Resp: 13264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.9 | 11.4 | 34.1 |



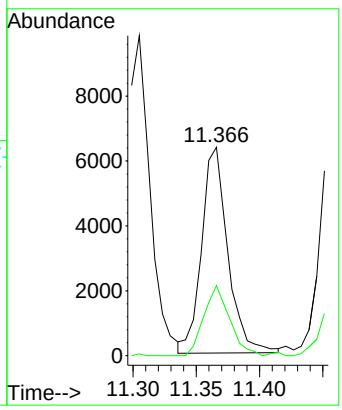


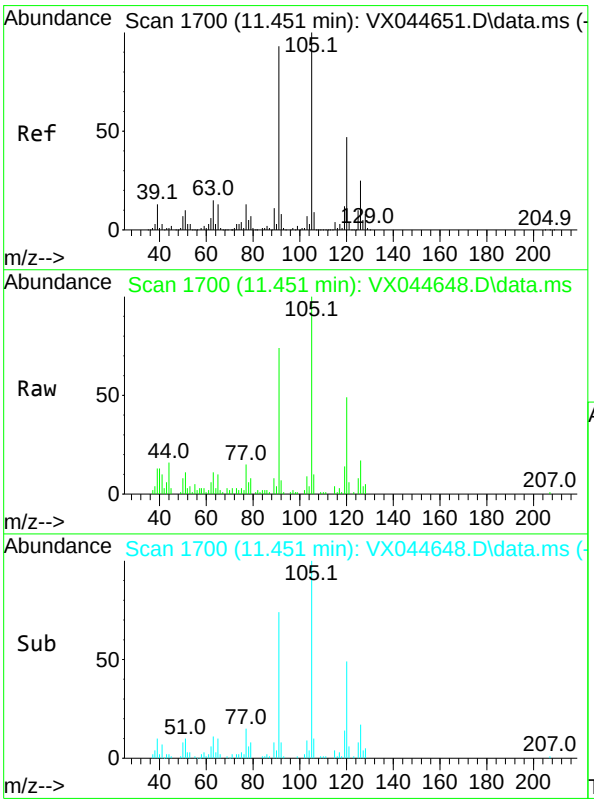

#79
2-Chlorotoluene
Concen: 1.163 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 91 Resp: 9159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.2 | 16.2 | 48.5 |

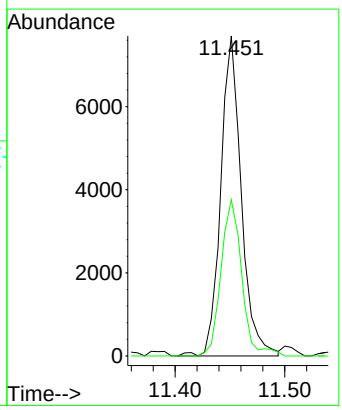


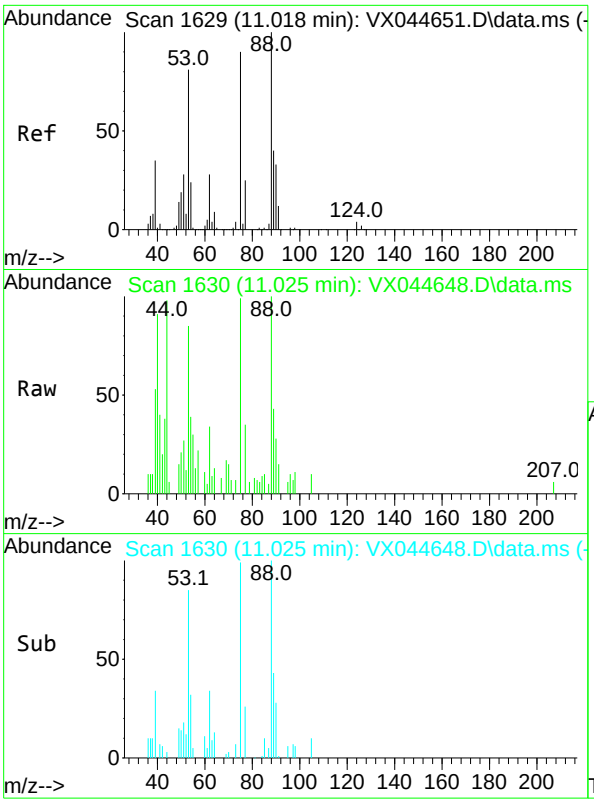




#80
1,3,5-Trimethylbenzene
Concen: 1.115 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:105 Resp: 10031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 49.2 | 23.7 | 71.1 |



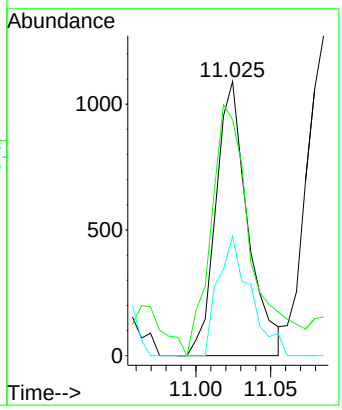


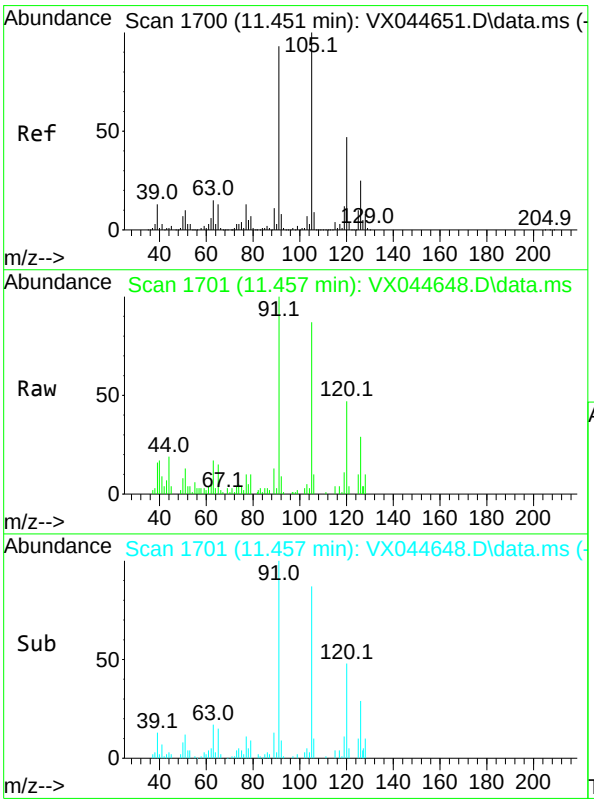

#81
trans-1,4-Dichloro-2-butene
Concen: 1.129 ug/l
RT: 11.025 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 75 Resp: 1621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 117.0 | 74.3 | 111.5# |
| 89 | 44.1 | 37.4 | 56.0 |

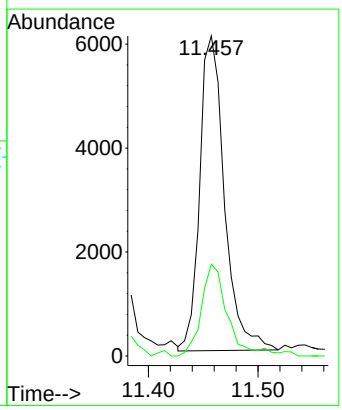


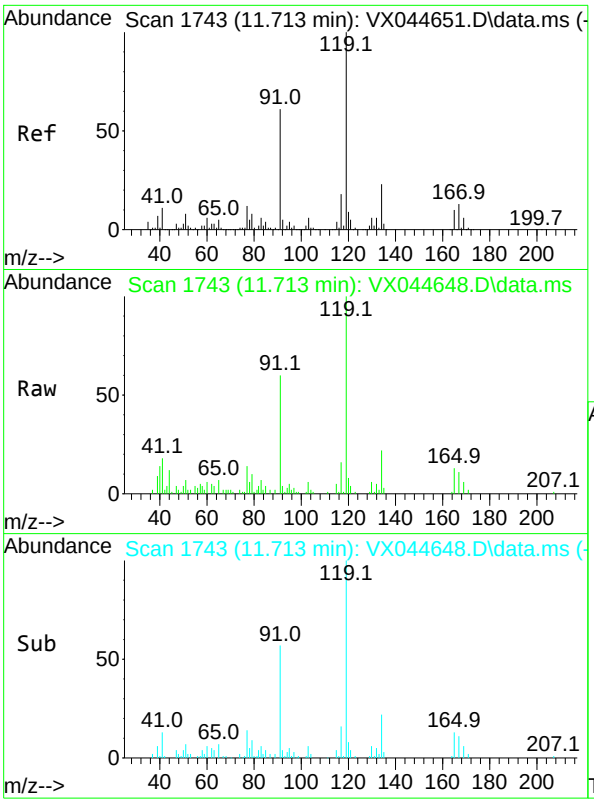




#82
4-Chlorotoluene
Concen: 1.101 ug/l
RT: 11.457 min Scan# 1701
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 91 Resp: 9494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.3 | 13.9 | 41.7 |



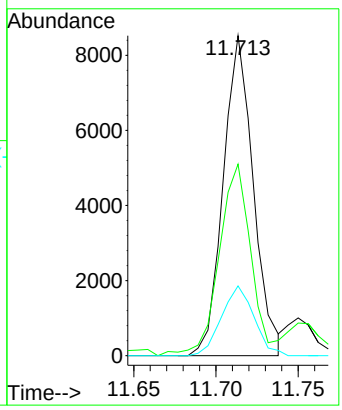


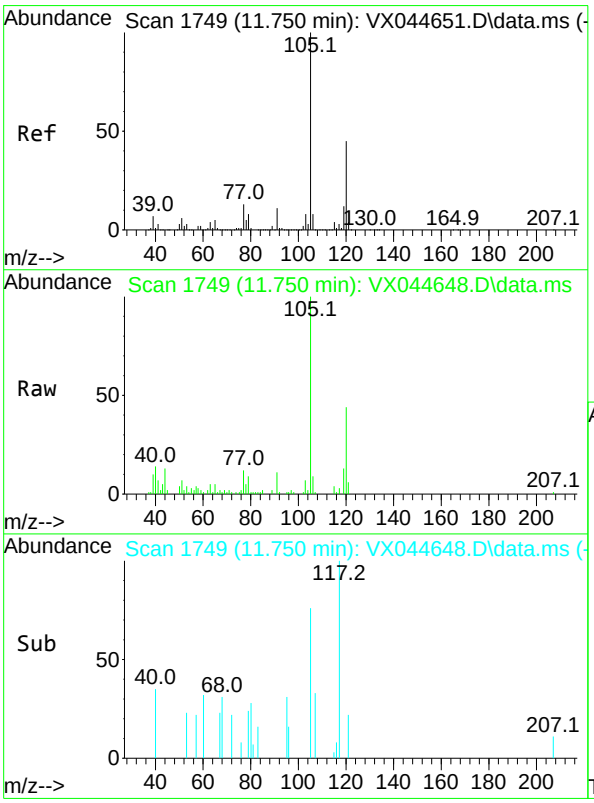

#83
tert-Butylbenzene
Concen: 1.155 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:119 Resp: 10869

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 63.4 | 30.0 | 90.0 |
| 134 | 23.5 | 11.2 | 33.5 |

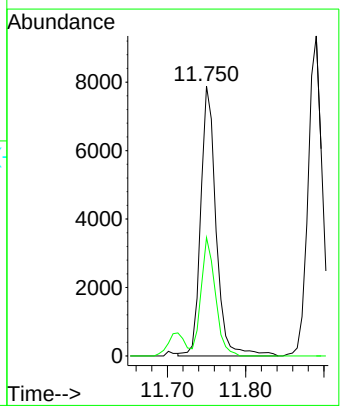


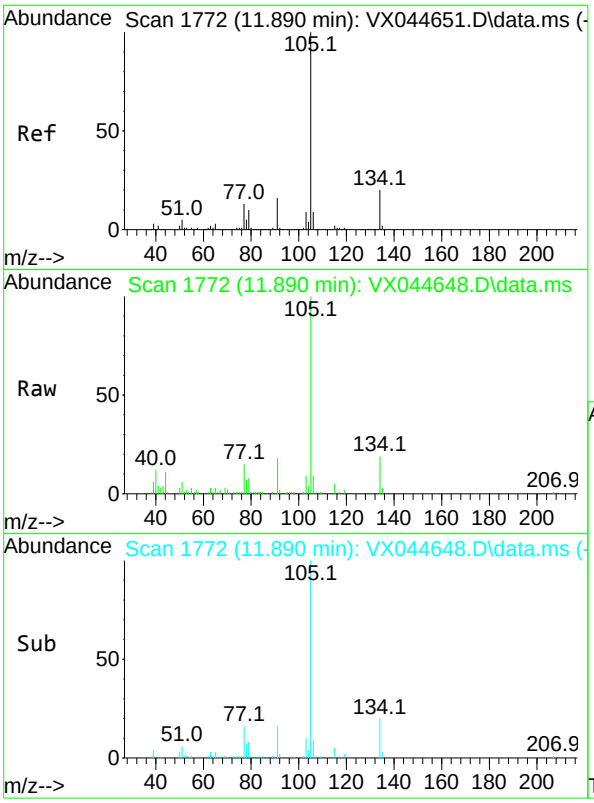




#84
1,2,4-Trimethylbenzene
Concen: 1.174 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:105 Resp: 10735

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 40.5 | 22.2 | 66.6 |



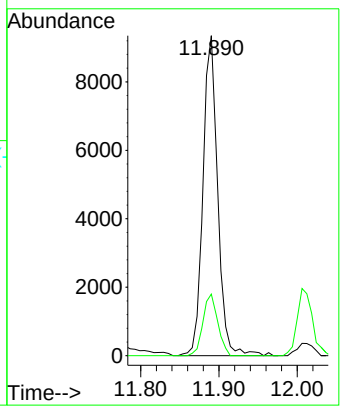


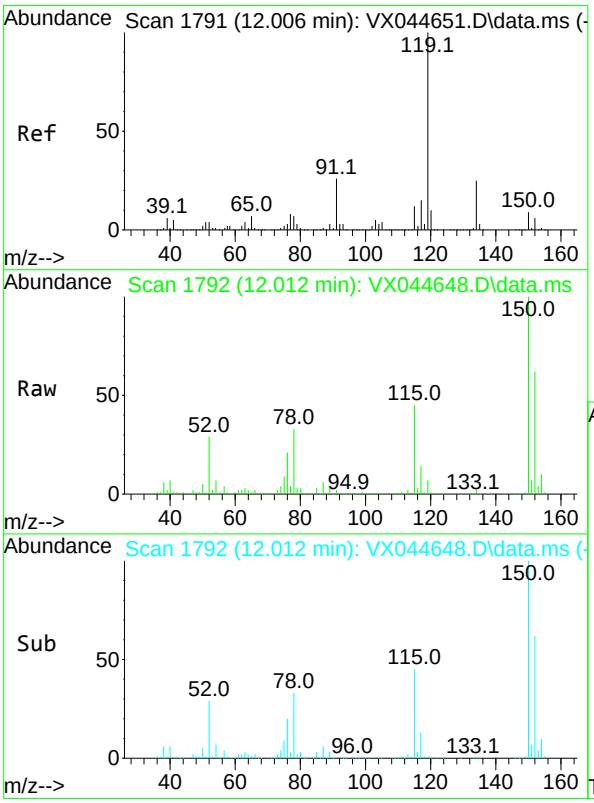

#85
sec-Butylbenzene
Concen: 1.115 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:105 Resp: 12217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.8 | 29.5 |

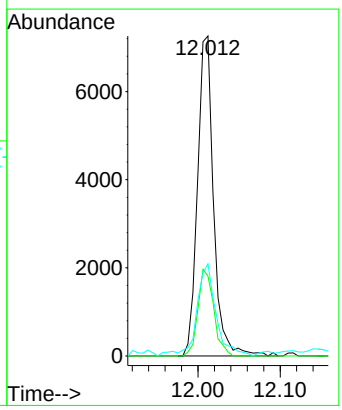


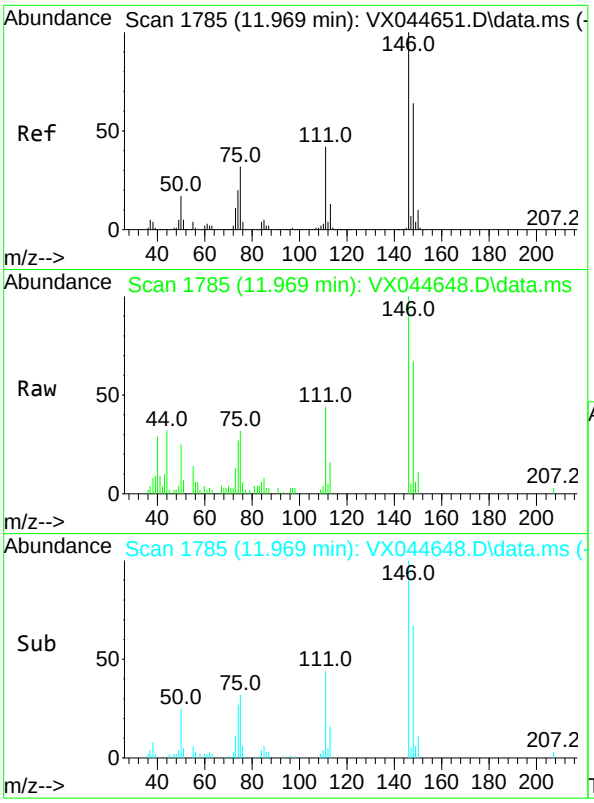




#86
p-Isopropyltoluene
Concen: 1.101 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:119 Resp: 9910

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.5 | 12.8 | 38.4 |
| 91 | 34.4 | 12.7 | 38.1 |



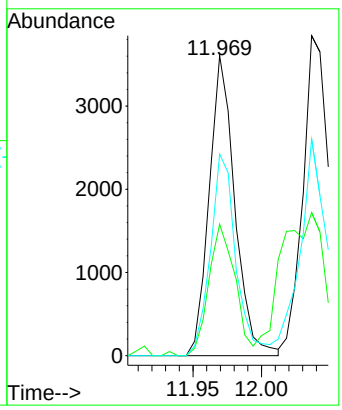


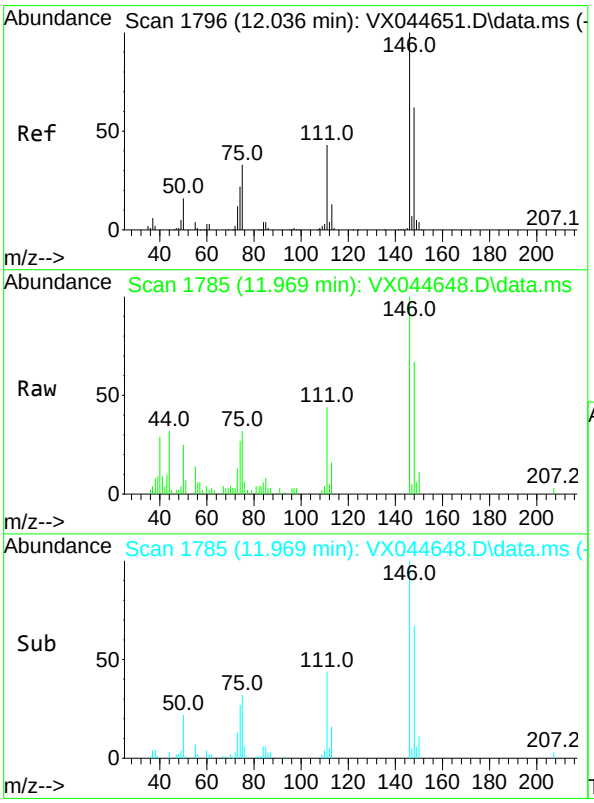

#87
1,3-Dichlorobenzene
Concen: 1.046 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:146 Resp: 4688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.8 | 21.9 | 65.7 |
| 148 | 67.2 | 31.8 | 95.4 |

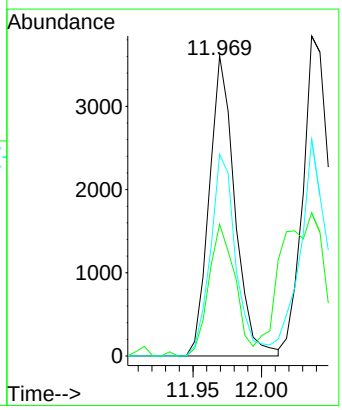


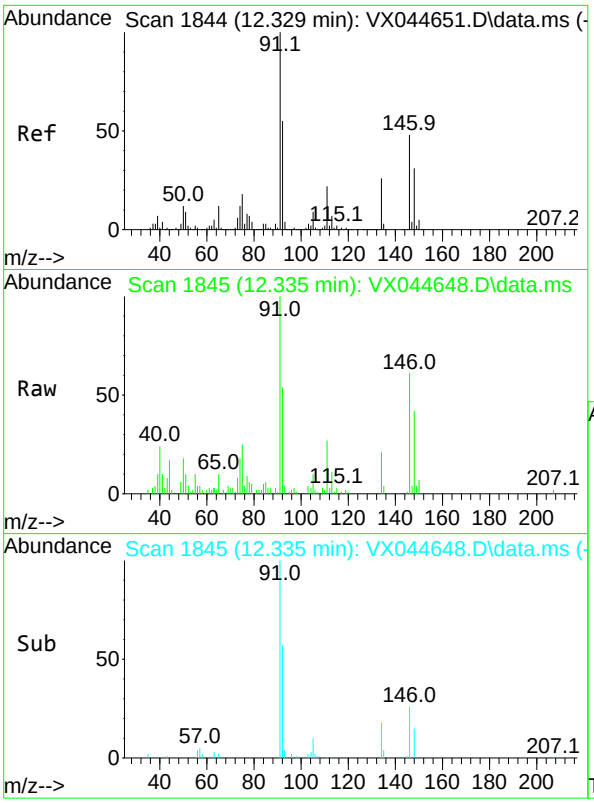




#88
1,4-Dichlorobenzene
Concen: 1.035 ug/l
RT: 11.969 min Scan# 1785
Delta R.T. -0.067 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:146 Resp: 4688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.8 | 21.5 | 64.5 |
| 148 | 67.2 | 32.1 | 96.5 |



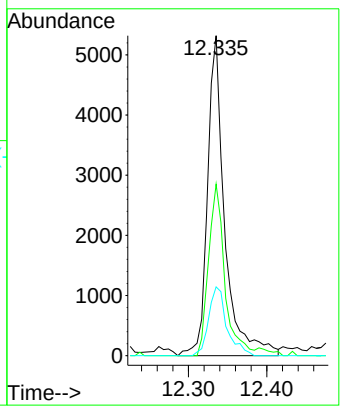


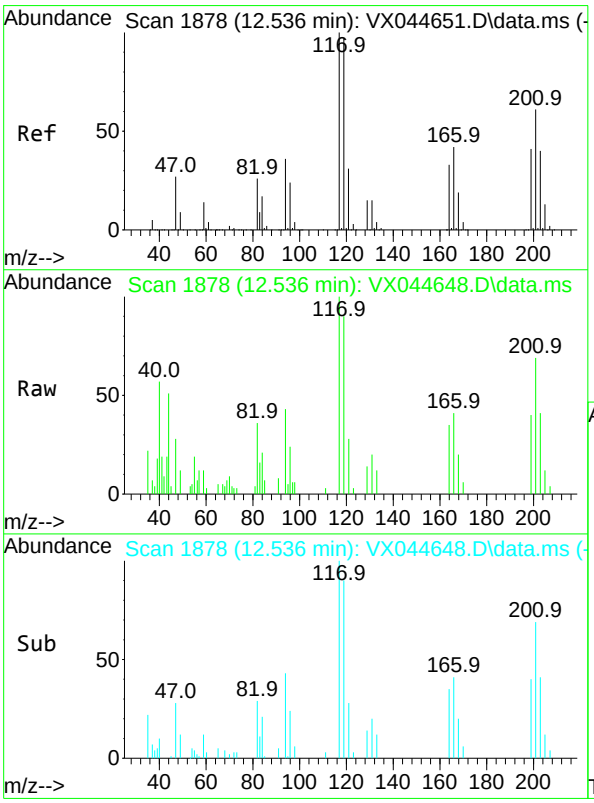

#89
n-Butylbenzene
Concen: 1.047 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion: 91 Resp: 8095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 50.5 | 27.4 | 82.0 |
| 134 | 22.8 | 12.8 | 38.3 |

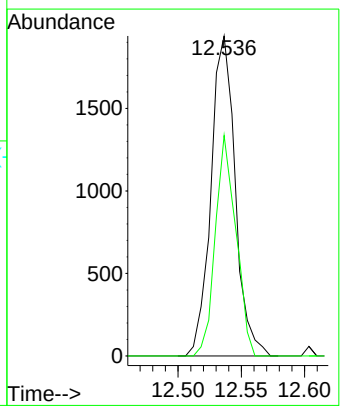


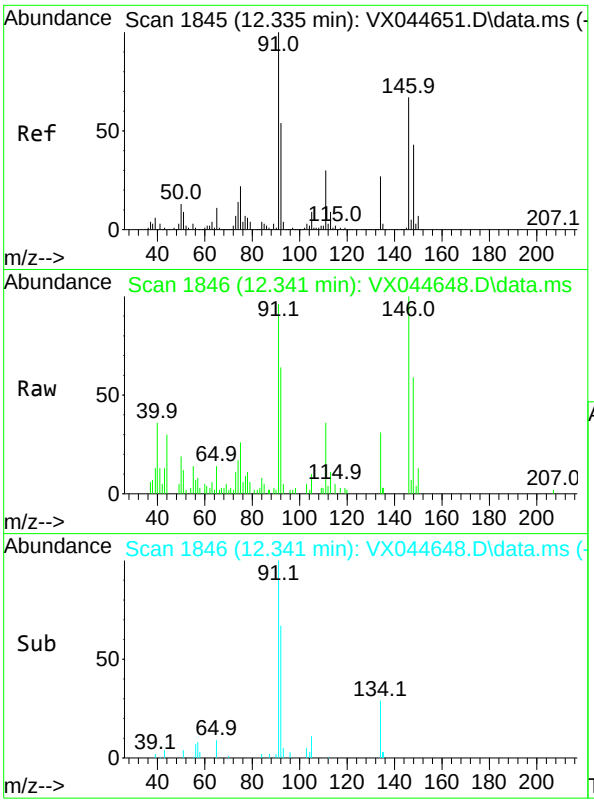




#90
Hexachloroethane
Concen: 1.270 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:117 Resp: 2589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 58.4 | 32.3 | 96.8 |



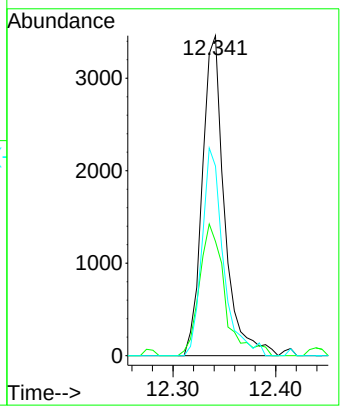


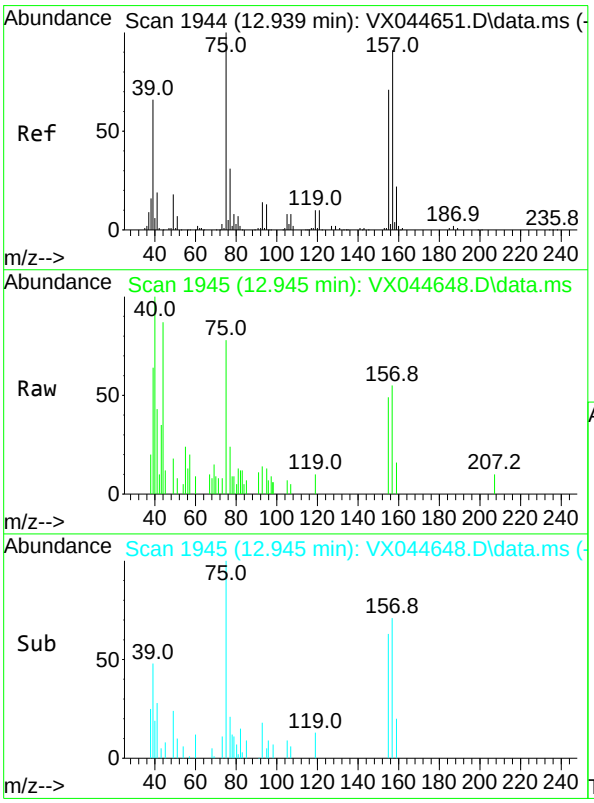

#91
1,2-Dichlorobenzene
Concen: 1.128 ug/l
RT: 12.341 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:146 Resp: 5192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 47.0 | 22.4 | 67.2 |
| 148 | 62.3 | 31.6 | 94.8 |

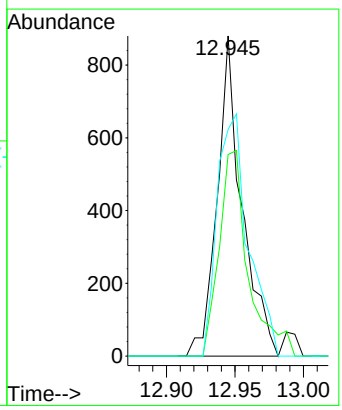


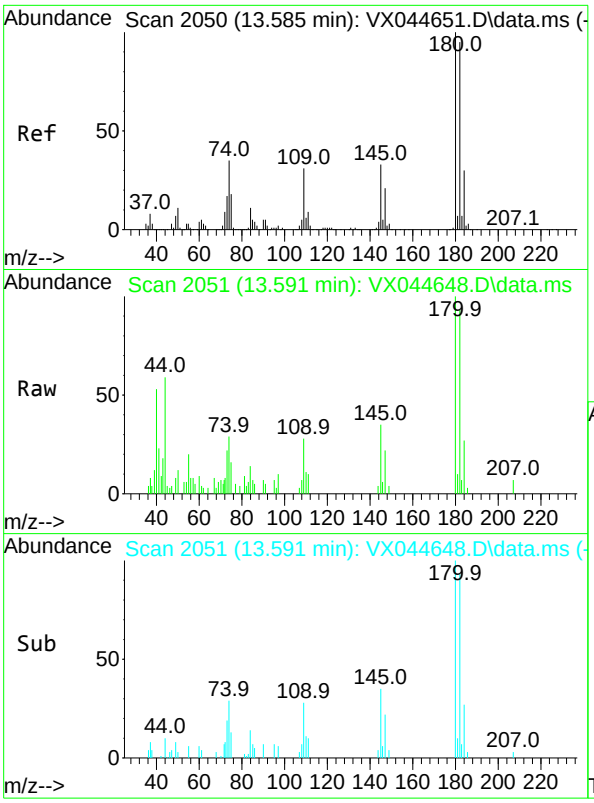




#92
1,2-Dibromo-3-Chloropropane
Concen: 1.178 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion: 75 Resp: 1100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 75.9 | 39.0 | 116.9 |
| 157 | 95.6 | 49.9 | 149.7 |



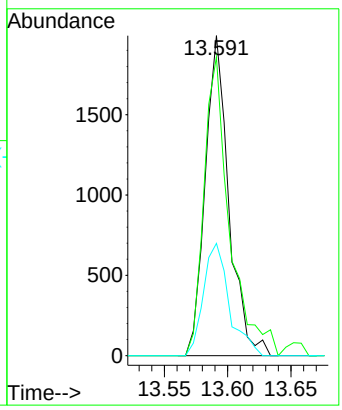


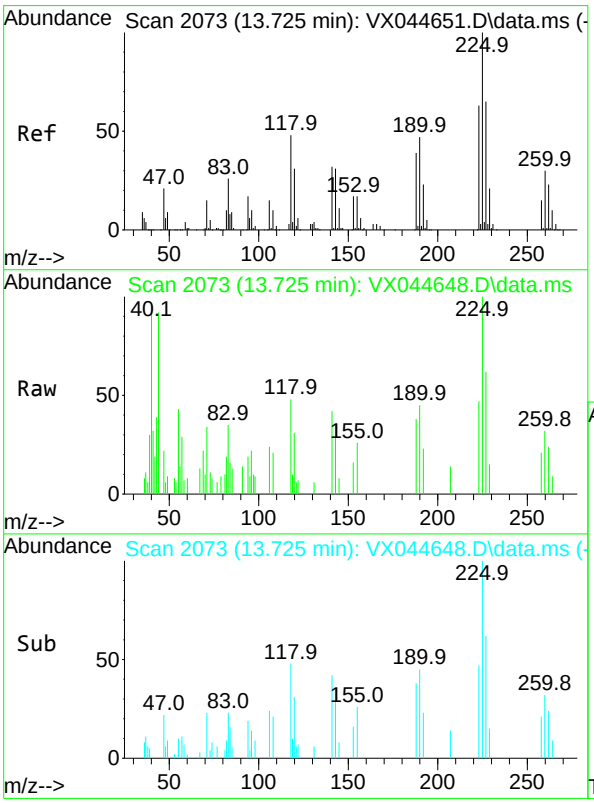

#93
1,2,4-Trichlorobenzene
Concen: 0.941 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:180 Resp: 2587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 101.8 | 47.4 | 142.2 |
| 145 | 38.4 | 16.7 | 50.1 |

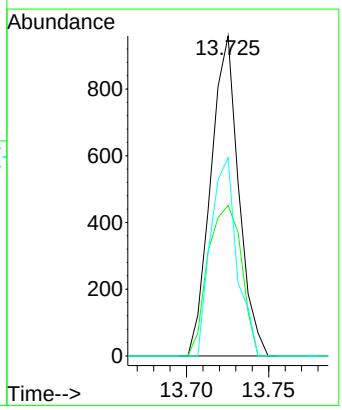


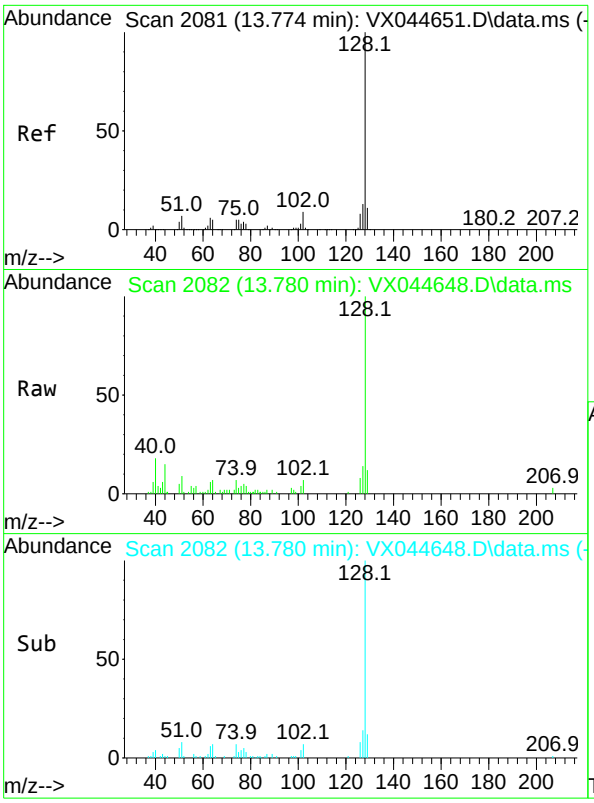




#94
Hexachlorobutadiene
Concen: 1.049 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:225 Resp: 1133

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 56.4 | 31.9 | 95.7 |
| 227 | 57.7 | 31.8 | 95.4 |



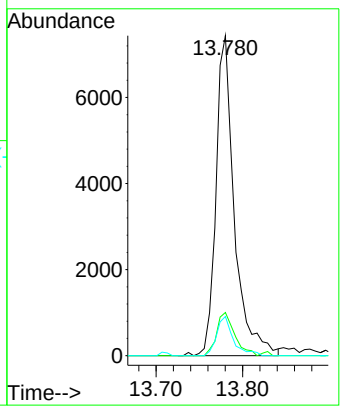


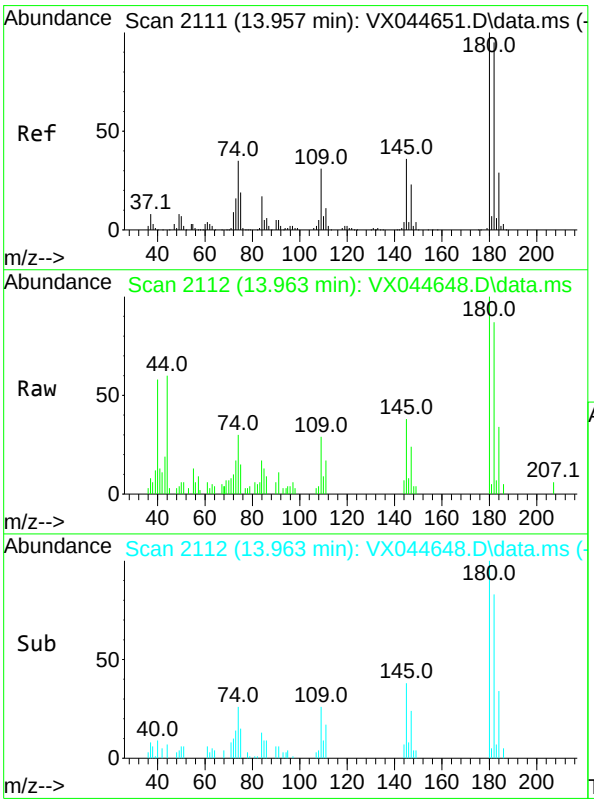

#95
Naphthalene
Concen: 1.033 ug/l
RT: 13.780 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC001

Tgt Ion:128 Resp: 10956

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.2 | 10.3 | 15.5 |
| 129 | 11.1 | 8.7 | 13.1 |

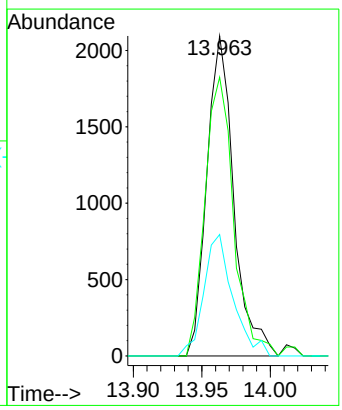



#96
1,2,3-Trichlorobenzene
Concen: 1.004 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX044648.D
Acq: 15 Jan 2025 10:31

Tgt Ion:180 Resp: 2863

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.5 | 47.2 | 141.6 |
| 145 | 40.9 | 17.5 | 52.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044649.D
Acq On : 15 Jan 2025 11:17
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** VSTDICC005

Quant Time: Jan 30 04:55:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 194627 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 357706 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 300165 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 123491 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.958 | 65 | 16795 | 5.717 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 11.440%# | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 12712 | 5.594 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 11.180%# | | | |
| 50) Toluene-d8 | 8.647 | 98 | 45425 | 5.733 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 11.460%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 15909 | 5.386 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 10.780%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 11790 | 4.502 | ug/l | 96 |
| 3) Chloromethane | 1.301 | 50 | 13859 | 4.893 | ug/l | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 13246 | 4.734 | ug/l | 97 |
| 5) Bromomethane | 1.593 | 94 | 3303 | 4.943 | ug/l | 98 |
| 6) Chloroethane | 1.660 | 64 | 2387 | 4.652 | ug/l # | 83 |
| 7) Trichlorofluoromethane | 1.868 | 101 | 14571 | 4.711 | ug/l | 95 |
| 8) Diethyl Ether | 2.136 | 74 | 6231 | 4.992 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 10967 | 4.717 | ug/l | 99 |
| 10) Methyl Iodide | 2.441 | 142 | 15920 | 5.016 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.989 | 59 | 1981 | 3.025 | ug/l # | 1 |
| 12) 1,1-Dichloroethene | 2.307 | 96 | 10636 | 4.667 | ug/l | 91 |
| 13) Acrolein | 2.239 | 56 | 11045 | 35.838 | ug/l | 95 |
| 14) Allyl chloride | 2.654 | 41 | 21748 | 4.901 | ug/l | 97 |
| 15) Acrylonitrile | 3.069 | 53 | 32783 | 25.521 | ug/l | 98 |
| 16) Acetone | 2.386 | 43 | 26927 | 23.167 | ug/l | 97 |
| 17) Carbon Disulfide | 2.502 | 76 | 30278 | 4.869 | ug/l | 97 |
| 18) Methyl Acetate | 2.703 | 43 | 16192 | 4.516 | ug/l | 95 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 41254 | 4.998 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 13610 | 5.028 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 11813 | 4.965 | ug/l | 98 |
| 22) Diisopropyl ether | 3.764 | 45 | 39716 | 5.149 | ug/l | 92 |
| 23) Vinyl Acetate | 3.721 | 43 | 175668 | 26.022 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 22655 | 4.953 | ug/l | 98 |
| 25) 2-Butanone | 4.568 | 43 | 43210 | 25.004 | ug/l | 96 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 21972 | 4.957 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 14297 | 4.777 | ug/l | 97 |
| 28) Bromochloromethane | 4.891 | 49 | 10785 | 5.046 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.007 | 42 | 27602 | 24.762 | ug/l | 98 |
| 30) Chloroform | 5.086 | 83 | 23860 | 5.169 | ug/l | 93 |
| 31) Cyclohexane | 5.458 | 56 | 18252 | 4.934 | ug/l | 94 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 20169 | 4.753 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 15040 | 4.754 | ug/l | 94 |
| 37) Ethyl Acetate | 4.721 | 43 | 17349 | 5.150 | ug/l | 95 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 17983 | 5.054 | ug/l | 92 |
| 39) Methylcyclohexane | 7.373 | 83 | 19848 | 4.727 | ug/l | 95 |
| 40) Benzene | 6.038 | 78 | 49235 | 5.023 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044649.D
Acq On : 15 Jan 2025 11:17
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Quant Time: Jan 30 04:55:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.934 | 41 | 9920 | 5.054 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.086 | 62 | 17678 | 4.941 | ug/l | | 97 |
| 43) Isopropyl Acetate | 6.342 | 43 | 30226 | 4.877 | ug/l | | 99 |
| 44) Trichloroethene | 7.123 | 130 | 11427 | 4.849 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 12829 | 5.199 | ug/l | | 97 |
| 46) Dibromomethane | 7.580 | 93 | 9684 | 5.156 | ug/l | | 94 |
| 47) Bromodichloromethane | 7.818 | 83 | 18964 | 4.923 | ug/l | | 94 |
| 48) Methyl methacrylate | 7.696 | 41 | 13933 | 4.844 | ug/l | | 97 |
| 49) 1,4-Dioxane | 7.677 | 88 | 5674 | 94.542 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 87503 | 25.551 | ug/l | | 98 |
| 52) Toluene | 8.714 | 92 | 30892 | 5.149 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 19714 | 4.954 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 21054 | 4.879 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 9.153 | 97 | 12227 | 5.037 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.116 | 69 | 20596 | 4.935 | ug/l | | 96 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 21253 | 5.142 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 50319 | 24.557 | ug/l | | 100 |
| 59) 2-Hexanone | 9.433 | 43 | 63985 | 25.395 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.519 | 129 | 14553 | 5.108 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.610 | 107 | 12916 | 5.077 | ug/l | | 97 |
| 64) Tetrachloroethene | 9.269 | 164 | 9274 | 4.920 | ug/l | | 93 |
| 65) Chlorobenzene | 10.073 | 112 | 32572 | 5.109 | ug/l | | 97 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 11955 | 5.160 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 55208 | 4.963 | ug/l | | 98 |
| 68) m/p-Xylenes | 10.299 | 106 | 41816 | 10.129 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 21392 | 5.124 | ug/l | | 96 |
| 70) Styrene | 10.653 | 104 | 34407 | 5.105 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 9452 | 5.012 | ug/l | # | 97 |
| 73) Isopropylbenzene | 10.963 | 105 | 52599 | 5.214 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 25282 | 5.084 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 18645 | 5.351 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 22270 | 7.431 | ug/l | | 80 |
| 77) Bromobenzene | 11.201 | 156 | 12158 | 5.156 | ug/l | | 96 |
| 78) n-propylbenzene | 11.305 | 91 | 53913 | 4.846 | ug/l | | 99 |
| 79) 2-Chlorotoluene | 11.366 | 91 | 36602 | 5.093 | ug/l | | 98 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 43488 | 5.295 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 6607 | 5.042 | ug/l | | 95 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 39763 | 5.051 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 45606 | 5.311 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 41737 | 5.001 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 49858 | 4.987 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 41214 | 5.016 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 20268 | 4.956 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.043 | 146 | 20555 | 4.972 | ug/l | | 93 |
| 89) n-Butylbenzene | 12.329 | 91 | 33505 | 4.747 | ug/l | | 98 |
| 90) Hexachloroethane | 12.536 | 117 | 9325 | 5.012 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 21690 | 5.165 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.945 | 75 | 4384 | 5.145 | ug/l | | 96 |
| 93) 1,2,4-Trichlorobenzene | 13.591 | 180 | 11649 | 4.640 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 4738 | 4.804 | ug/l | | 99 |
| 95) Naphthalene | 13.774 | 128 | 46418 | 4.794 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 12258 | 4.710 | ug/l | | 96 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044649.D
Acq On : 15 Jan 2025 11:17
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Quant Time: Jan 30 04:55:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

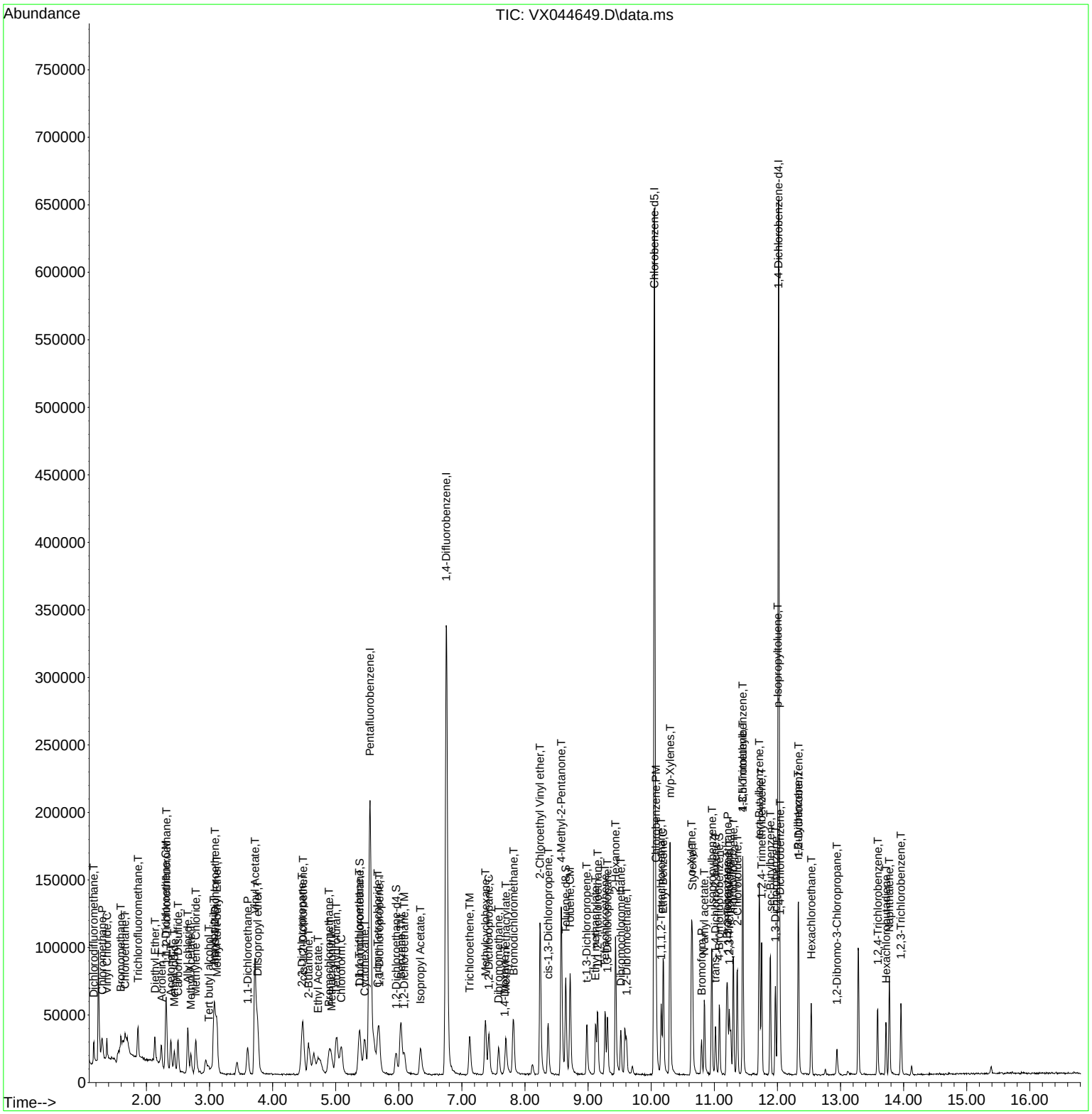
(#) = qualifier out of range (m) = manual integration (+) = signals summed

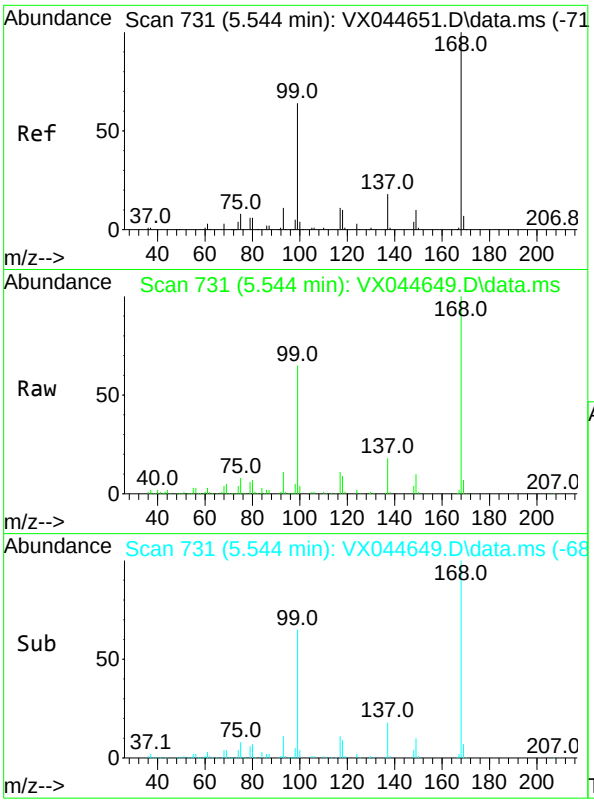
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044649.D
Acq On : 15 Jan 2025 11:17
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 4 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Quant Time: Jan 30 04:55:30 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



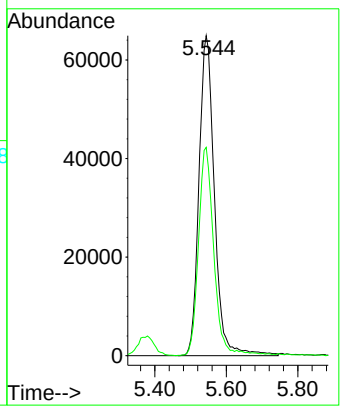


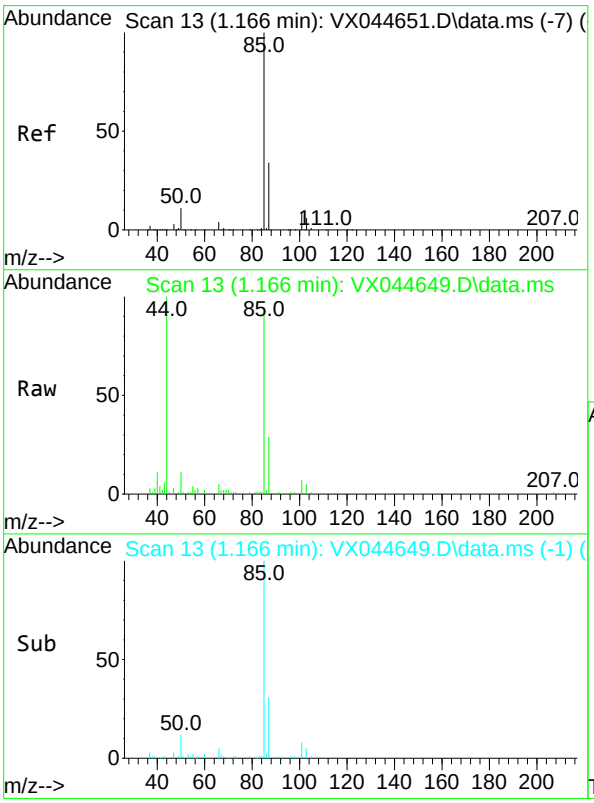

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:168 Resp: 194627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.0 | 51.1 | 76.7 |

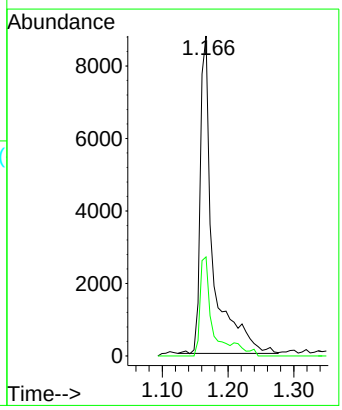


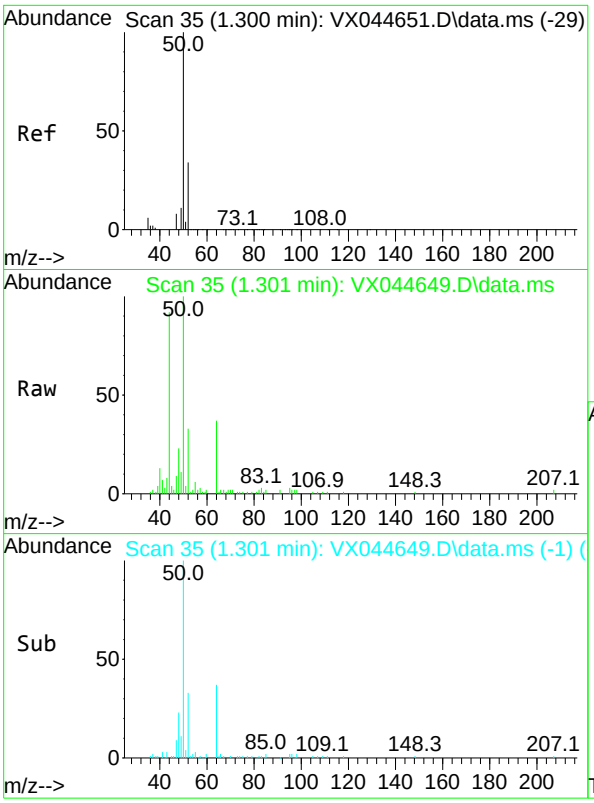




#2
Dichlorodifluoromethane
Concen: 4.502 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 85 Resp: 11790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 31.2 | 16.8 | 50.4 |



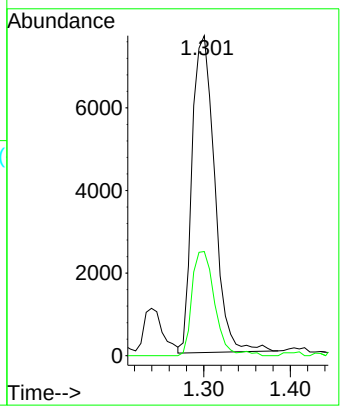


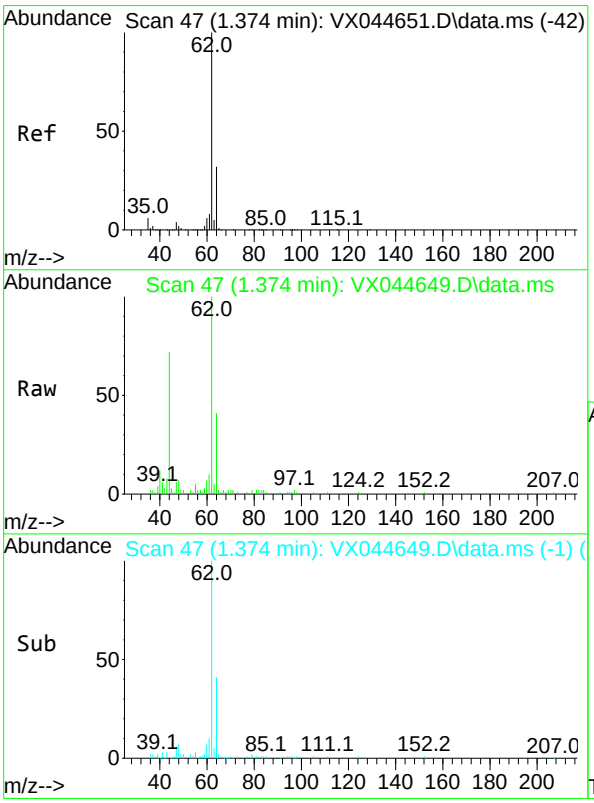

#3
Chloromethane
Concen: 4.893 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 50 Resp: 13859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.0 | 27.0 | 40.4 |

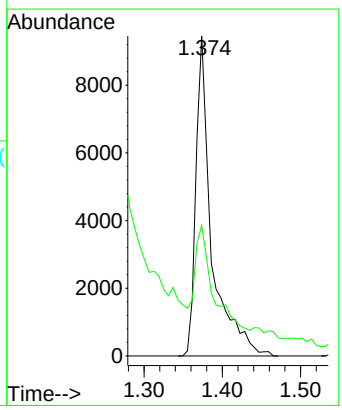


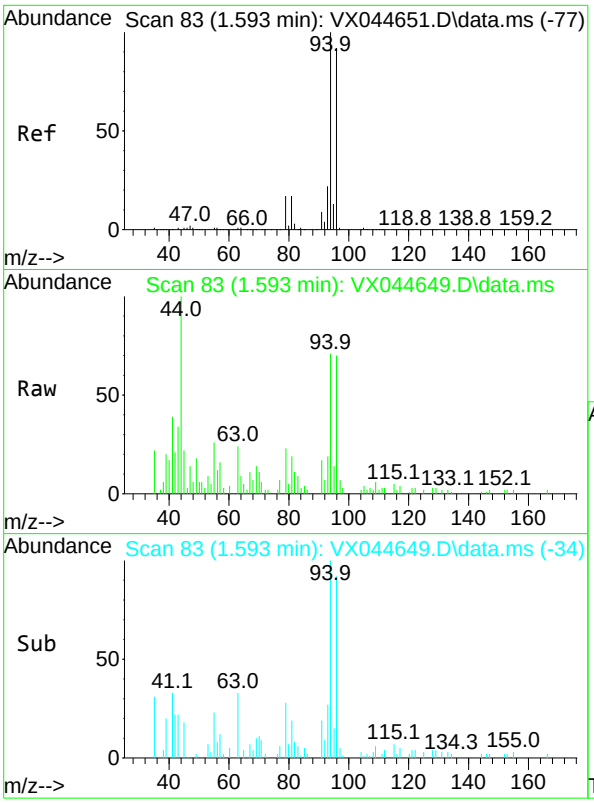




#4
Vinyl Chloride
Concen: 4.734 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 62 Resp: 13246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 35.1 | 26.6 | 39.8 |



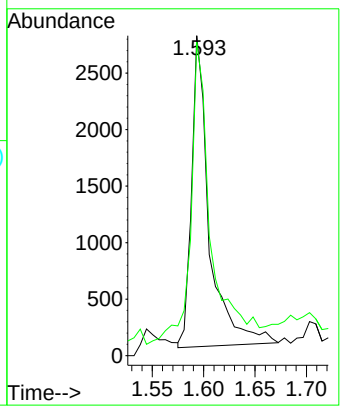


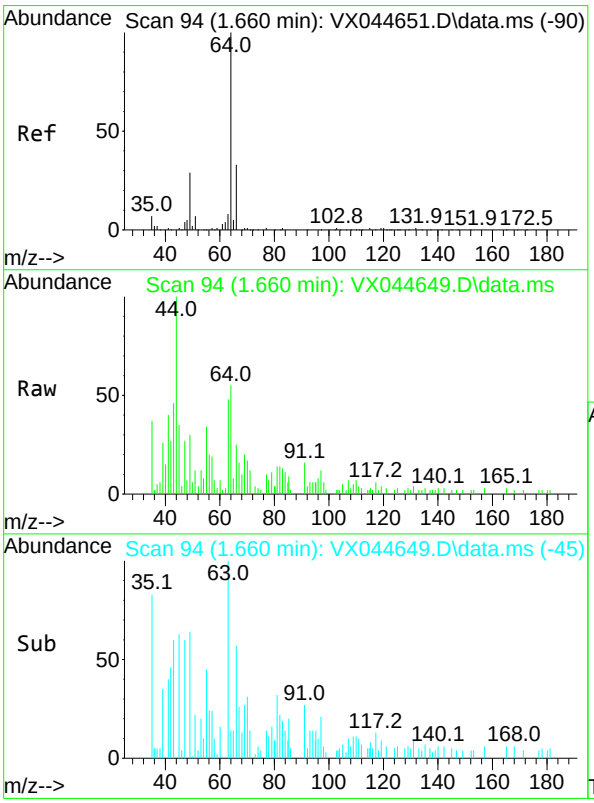

#5
Bromomethane
Concen: 4.943 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 94 Resp: 3303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.5 | 72.8 | 109.2 |

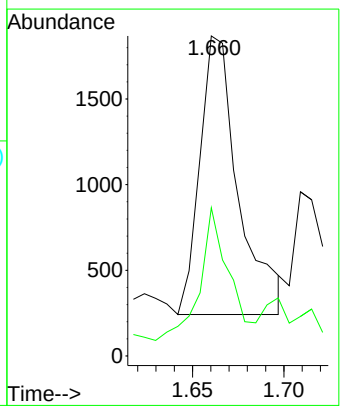


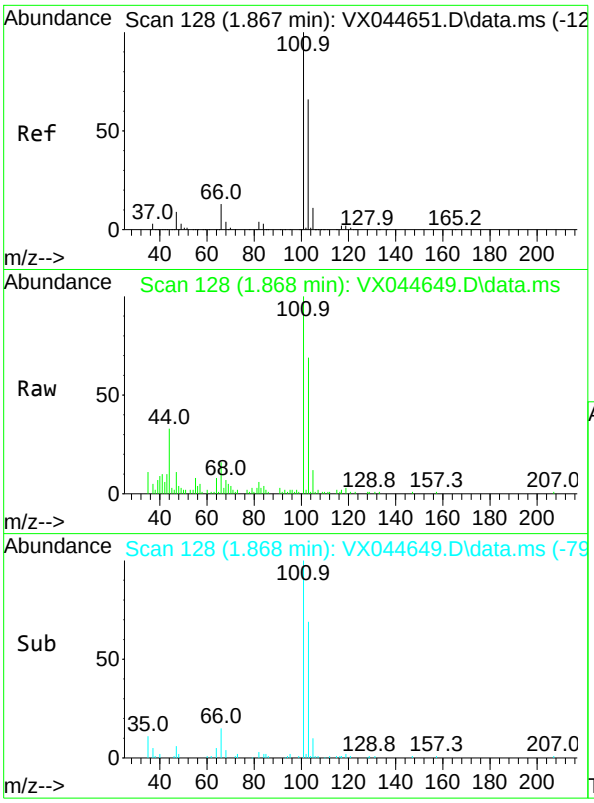




#6
Chloroethane
Concen: 4.652 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 64 Resp: 2387

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 42.6 | 26.6 | 39.8# |



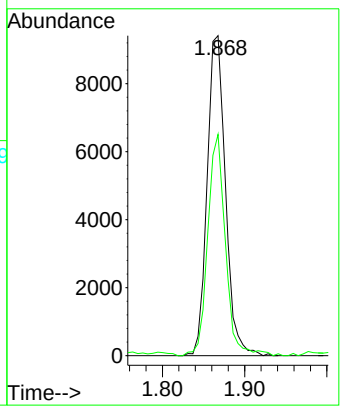


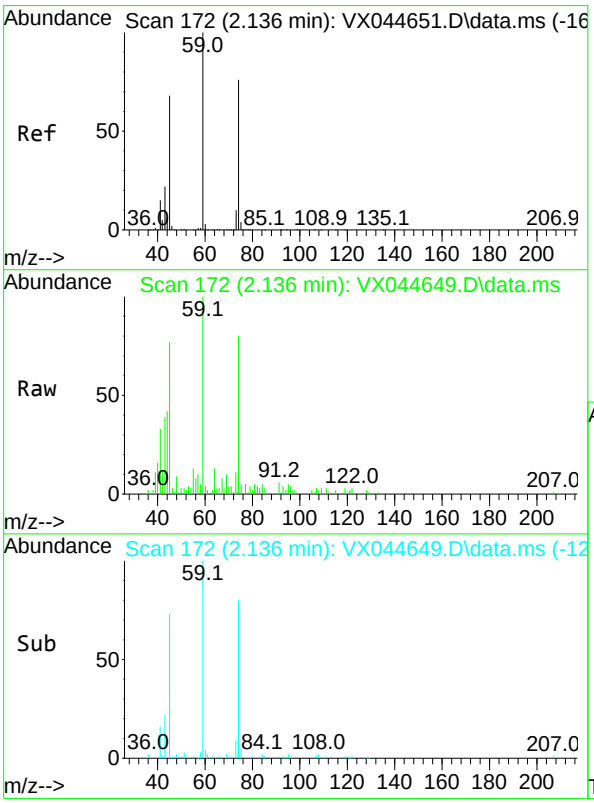

#7
Trichlorofluoromethane
Concen: 4.711 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 14571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 69.2 | 52.5 | 78.7 |

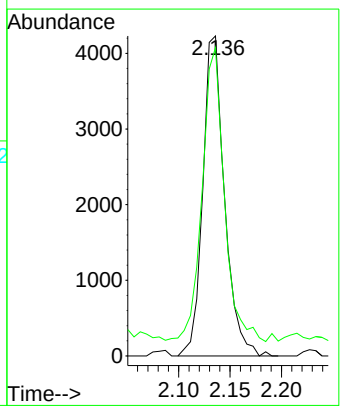


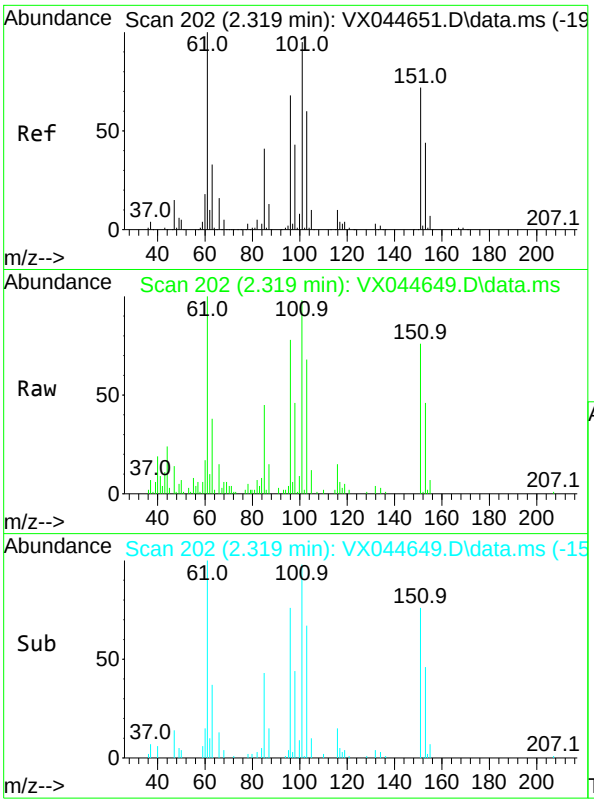




#8
Diethyl Ether
Concen: 4.992 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 74 Resp: 6231

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 93.9 | 47.1 | 141.3 |



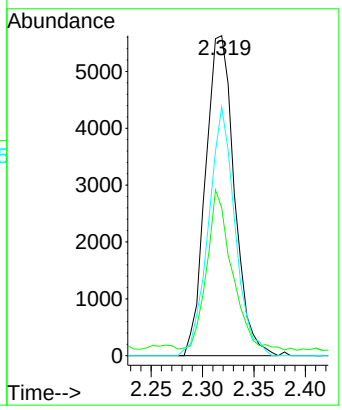


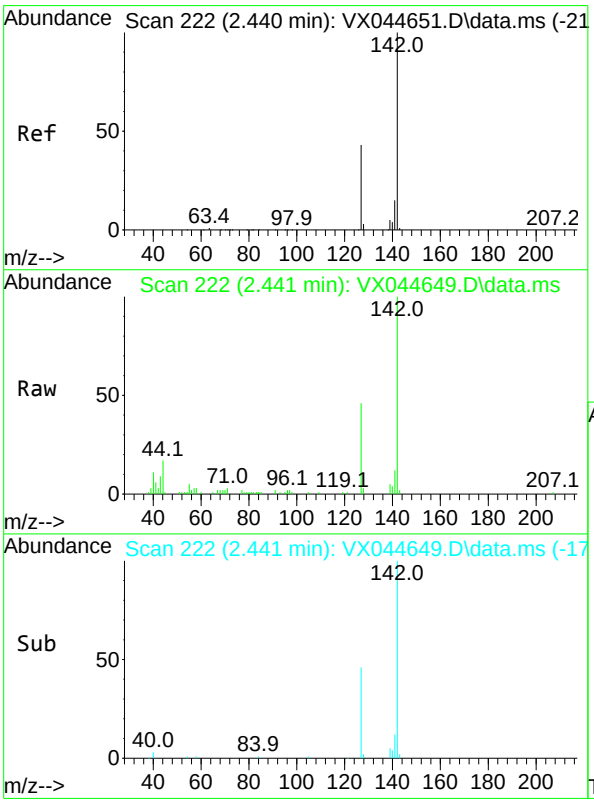

#9
1,1,2-Trichlorotrifluoroethane
Concen: 4.717 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:101 Resp: 10967

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.0 | 35.3 | 52.9 |
| 151 | 71.6 | 58.2 | 87.4 |

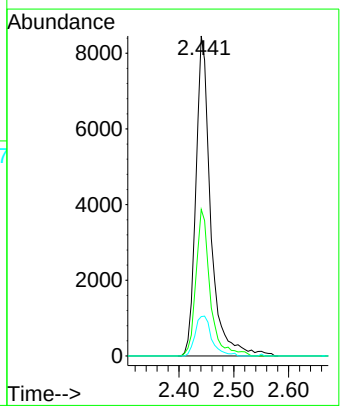


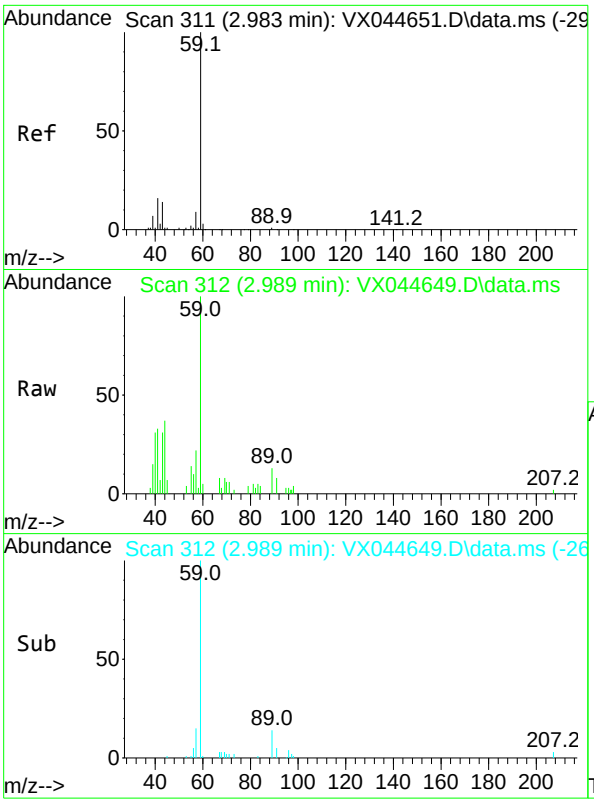




#10
Methyl Iodide
Concen: 5.016 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:142 Resp: 15920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.8 | 35.0 | 52.4 |
| 141 | 13.9 | 11.7 | 17.5 |



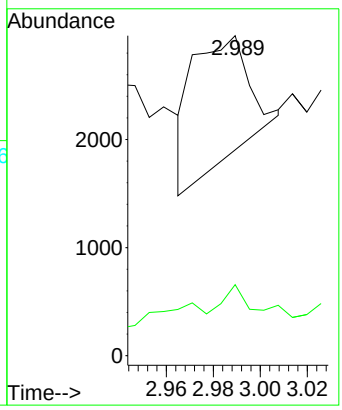


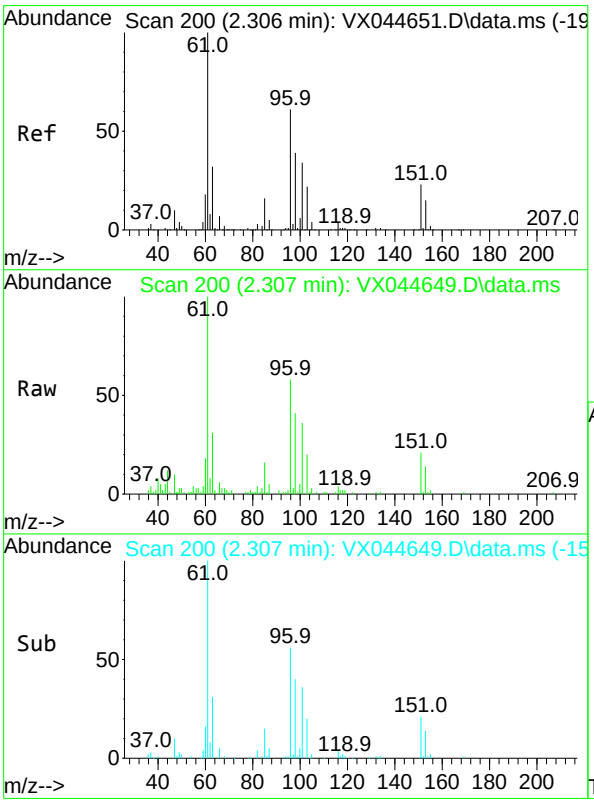

#11
Tert butyl alcohol
Concen: 3.025 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 59 Resp: 1981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 61.3 | 3.9 | 5.9# |

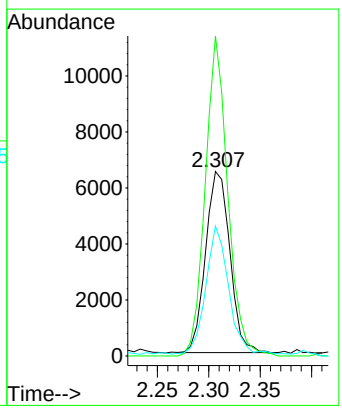


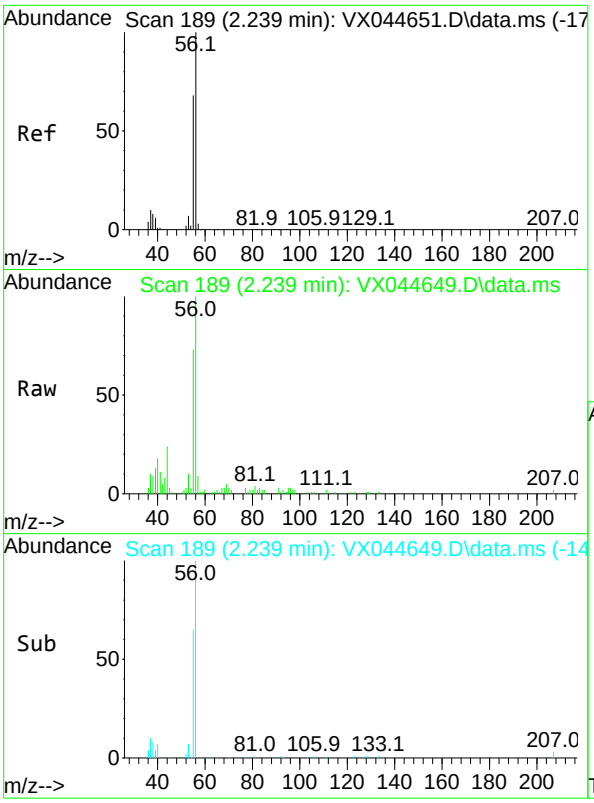




#12
1,1-Dichloroethene
Concen: 4.667 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 96 Resp: 10636

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 176.8 | 131.1 | 196.7 |
| 98 | 70.5 | 51.2 | 76.8 |



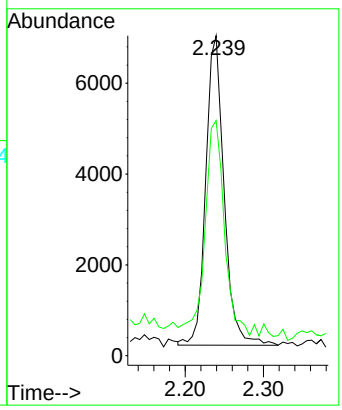


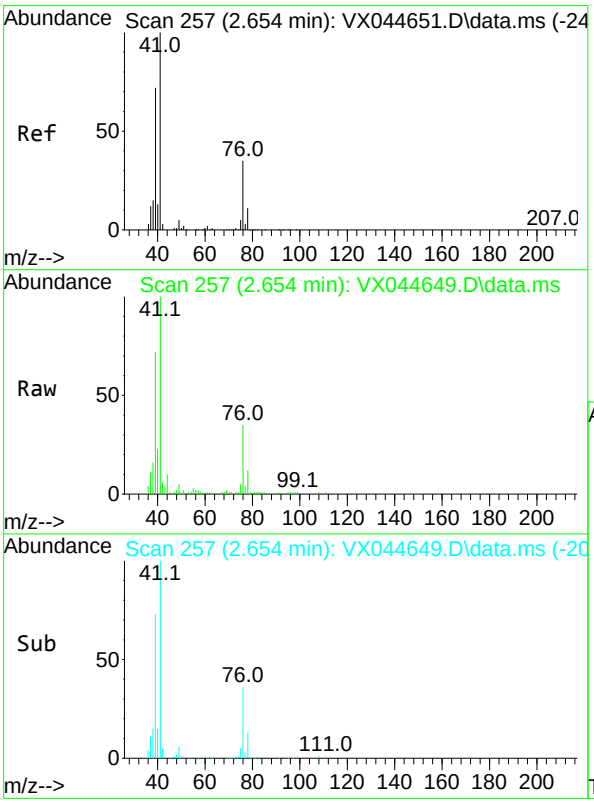

#13
Acrolein
Concen: 35.838 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 11045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 72.7 | 55.1 | 82.7 |

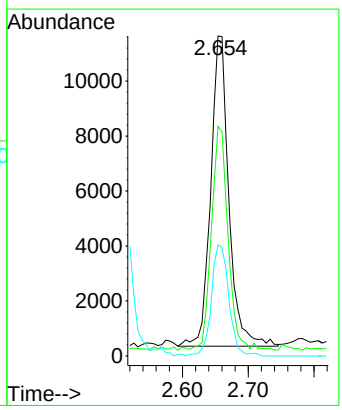


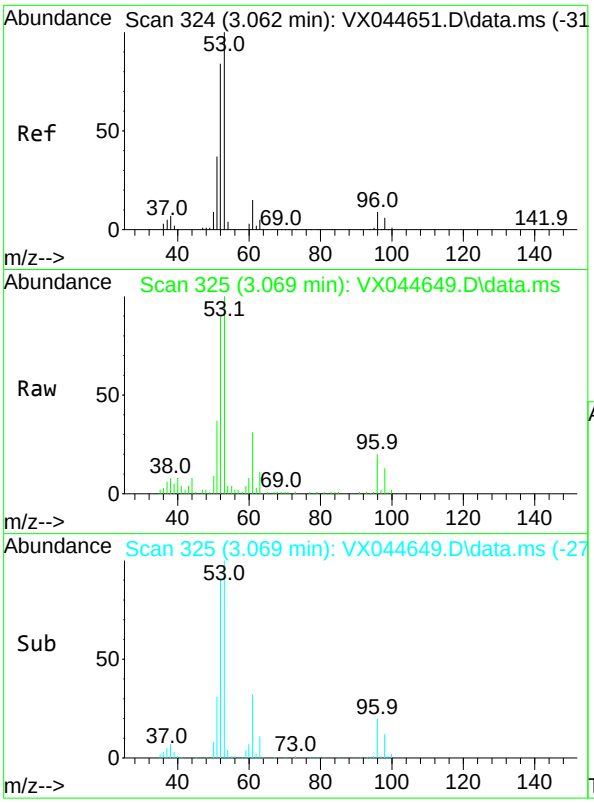




#14
Allyl chloride
Concen: 4.901 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 41 Resp: 21748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 65.4 | 54.9 | 82.3 |
| 76 | 34.4 | 28.4 | 42.6 |



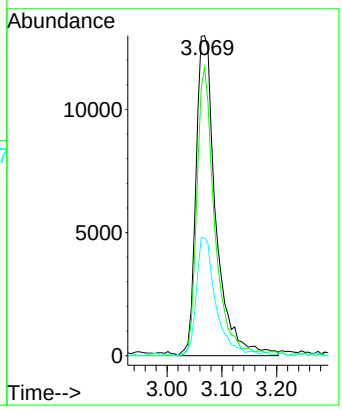


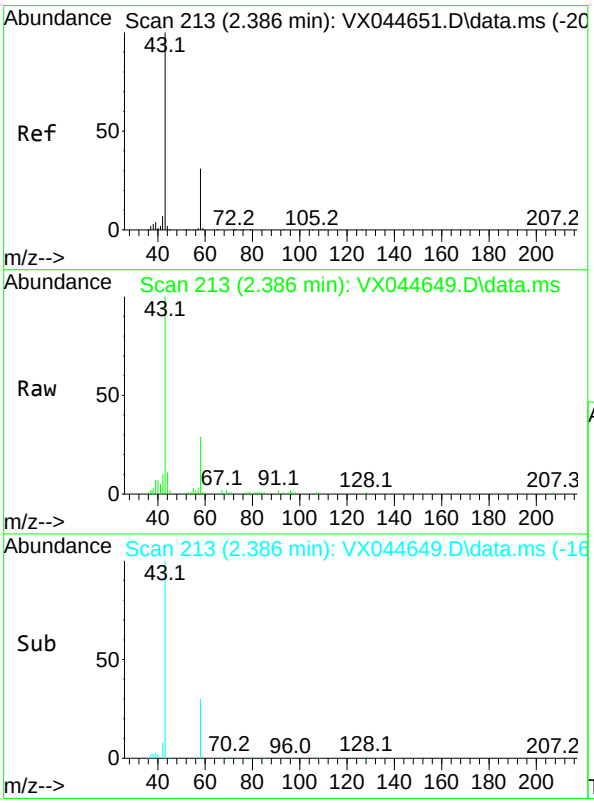

#15
Acrylonitrile
Concen: 25.521 ug/l
RT: 3.069 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 53 Resp: 32783

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 80.5 | 66.0 | 99.0 |
| 51 | 35.8 | 28.9 | 43.3 |

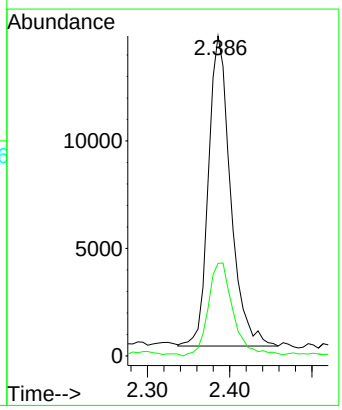


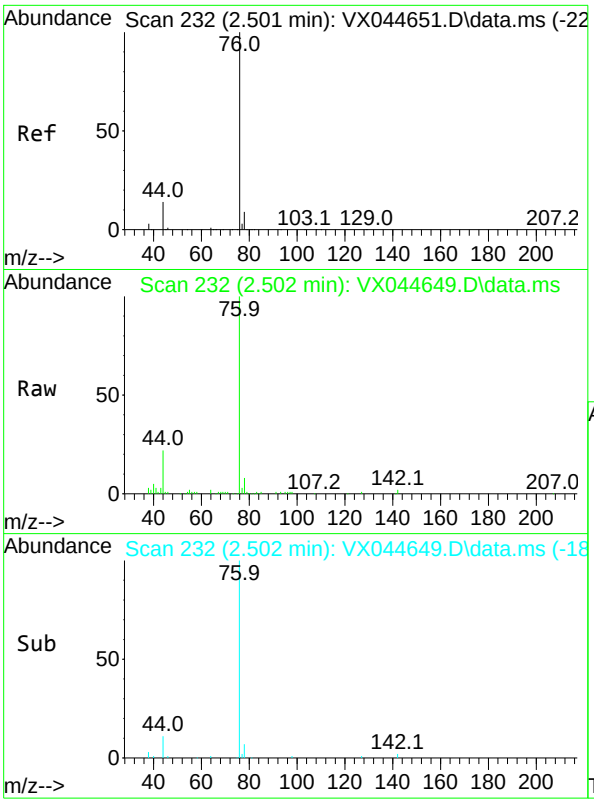




#16
Acetone
Concen: 23.167 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 26927

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 29.2 | 24.6 | 37.0 |



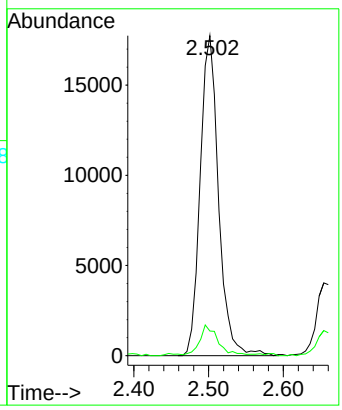


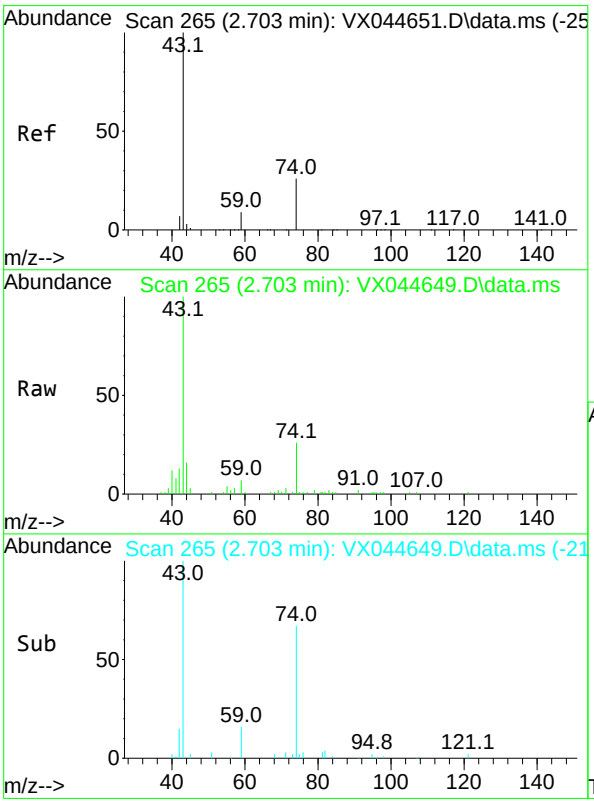

#17
Carbon Disulfide
Concen: 4.869 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 76 Resp: 30278

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 7.7 | 7.1 | 10.7 |

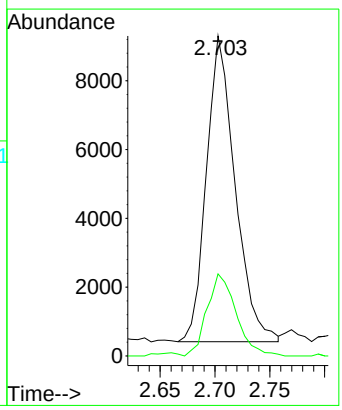


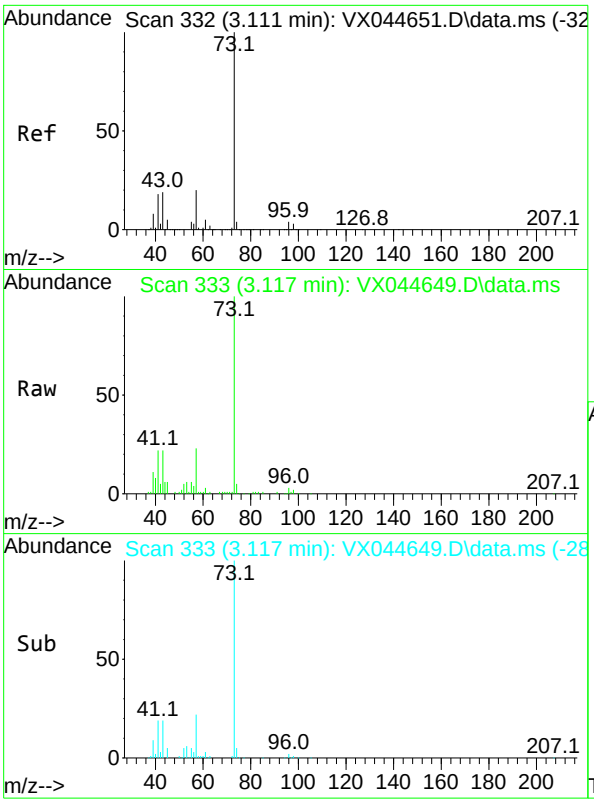




#18
Methyl Acetate
Concen: 4.516 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 16192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 27.3 | 19.8 | 29.8 |



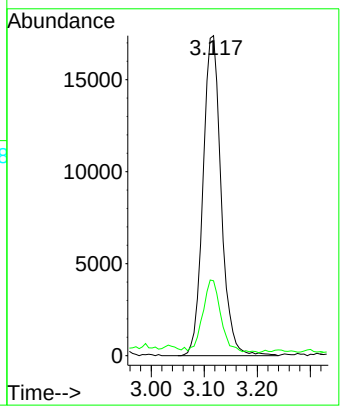


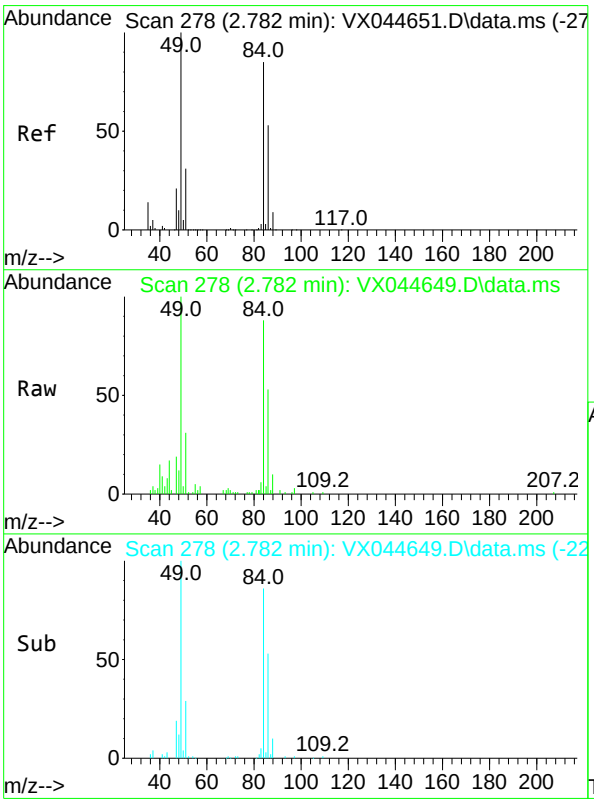

#19
Methyl tert-butyl Ether
Concen: 4.998 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 73 Resp: 41254

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.6 | 17.4 | 26.0 |

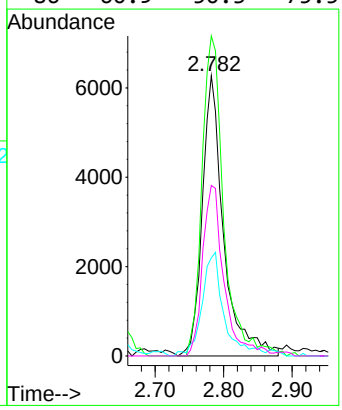


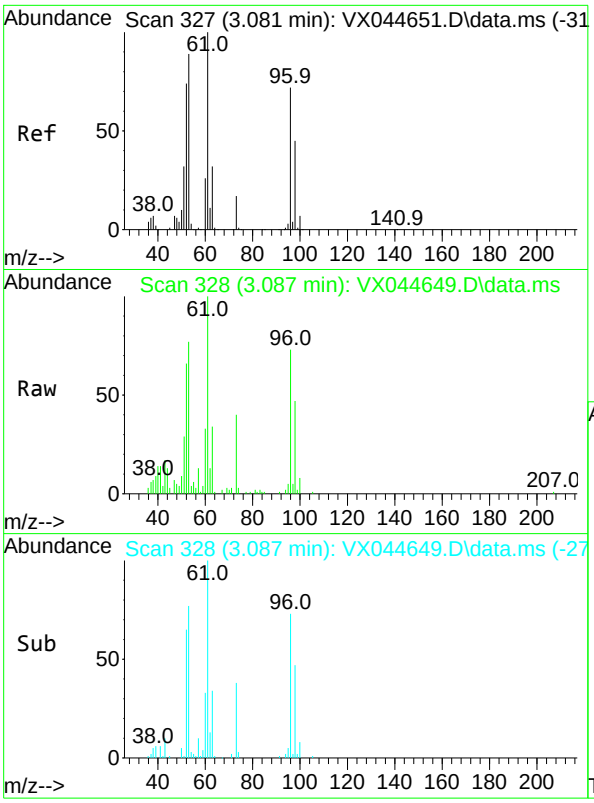




#20
Methylene Chloride
Concen: 5.028 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 84 Resp: 13610

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 114.2 | 94.2 | 141.4 |
| 51 | 33.5 | 28.8 | 43.2 |
| 86 | 60.9 | 50.3 | 75.5 |



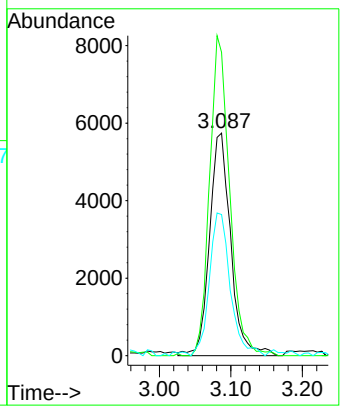


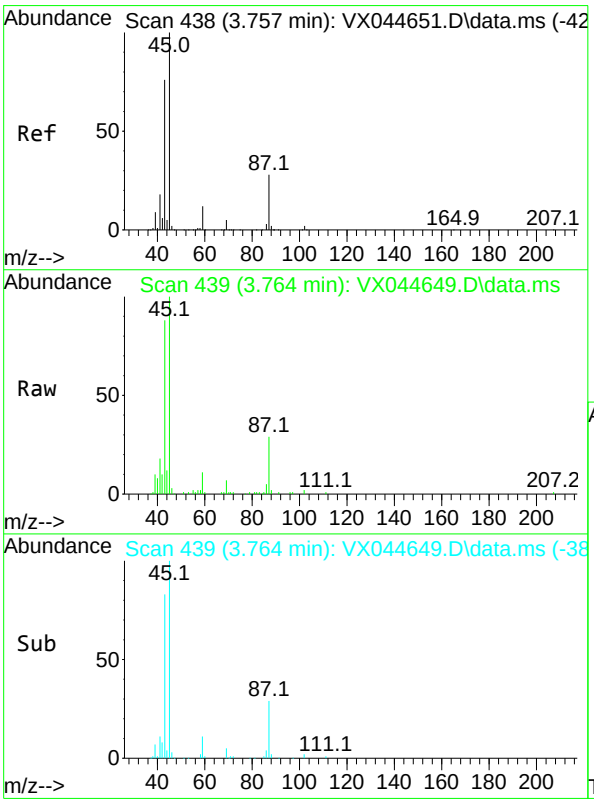

#21
trans-1,2-Dichloroethene
Concen: 4.965 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 96 Resp: 11813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 136.3 | 111.0 | 166.6 |
| 98 | 62.3 | 50.2 | 75.2 |

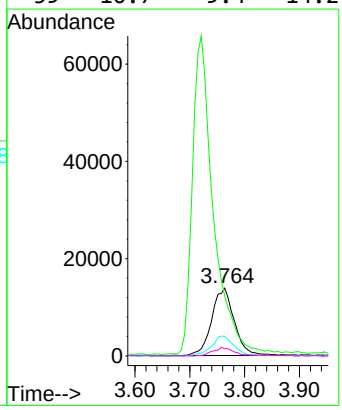


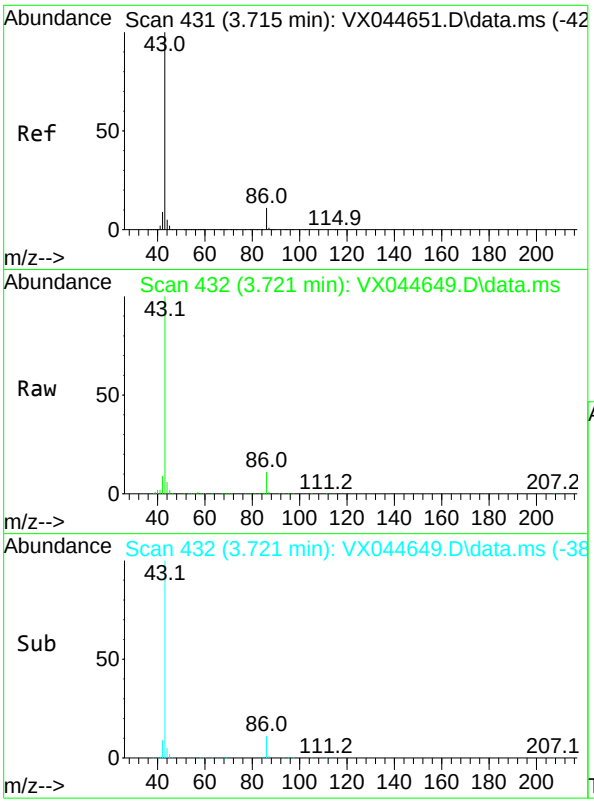




#22
Diisopropyl ether
Concen: 5.149 ug/l
RT: 3.764 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 45 Resp: 39716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 85.7 | 61.0 | 91.6 |
| 87 | 29.1 | 22.7 | 34.1 |
| 59 | 10.7 | 9.4 | 14.2 |



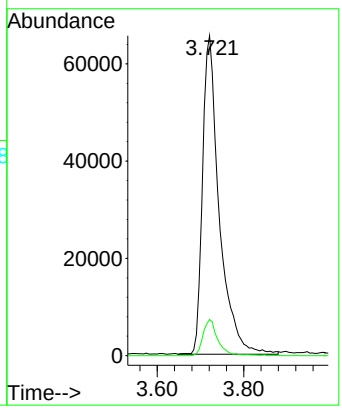


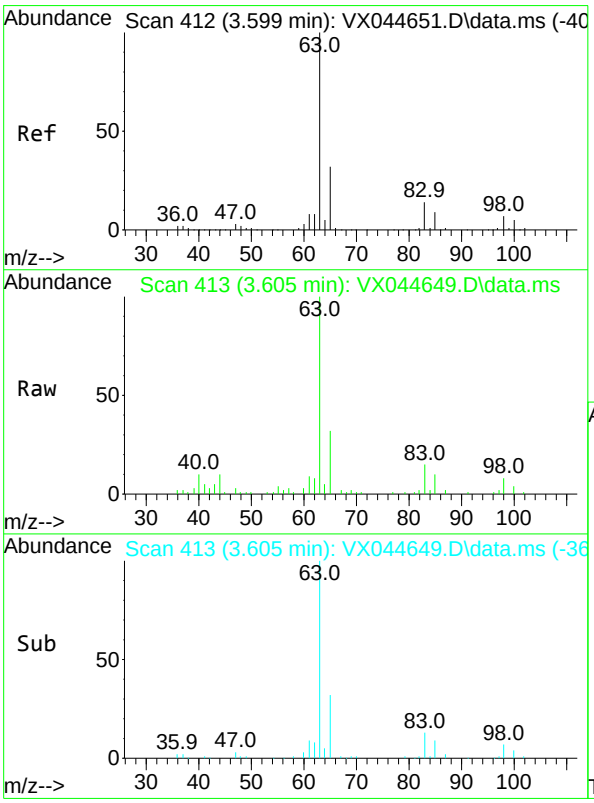

#23
Vinyl Acetate
Concen: 26.022 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 175668

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 8.9 | 13.3 |

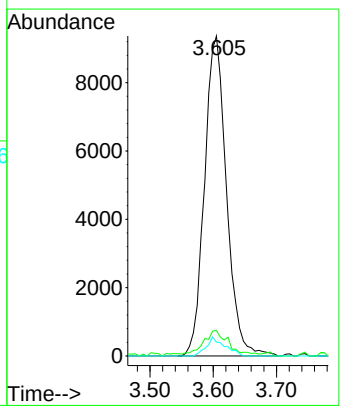


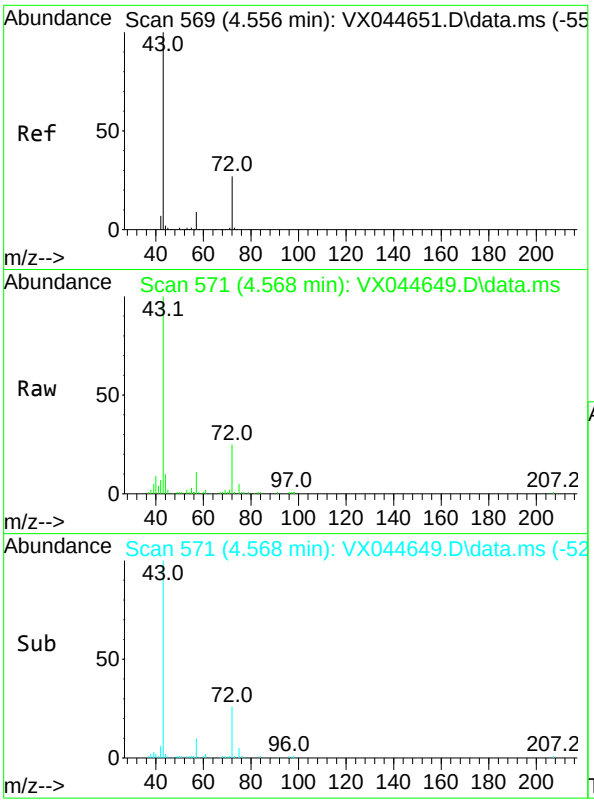




#24
1,1-Dichloroethane
Concen: 4.953 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 63 Resp: 22655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 8.0 | 3.6 | 10.9 |
| 100 | 4.4 | 2.5 | 7.5 |



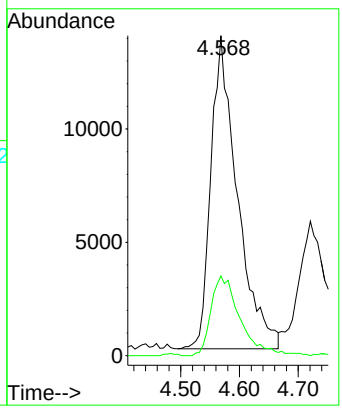


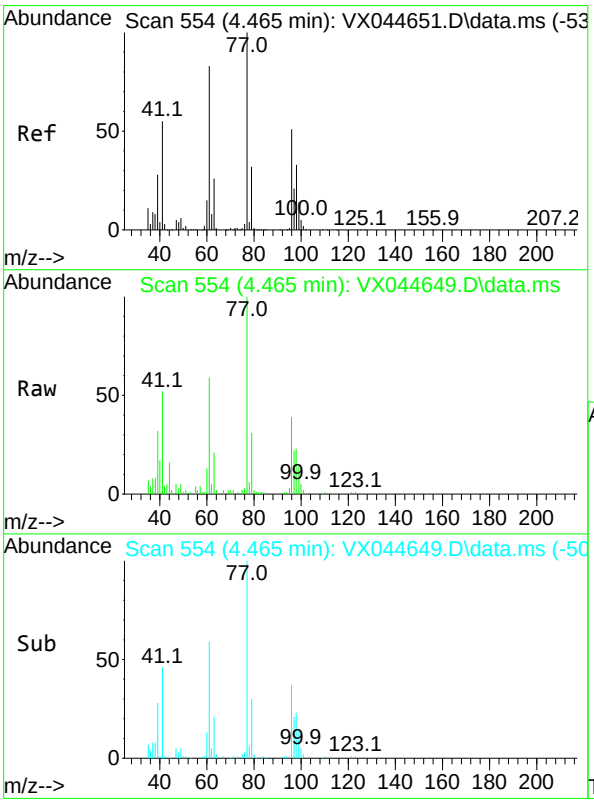

#25
2-Butanone
Concen: 25.004 ug/l
RT: 4.568 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 43210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 25.0 | 21.7 | 32.5 |

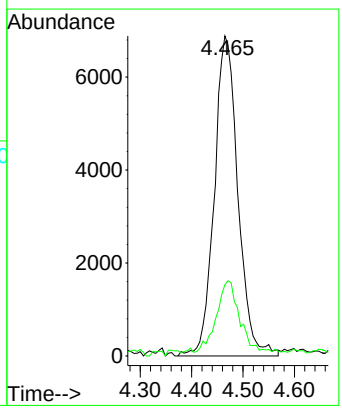


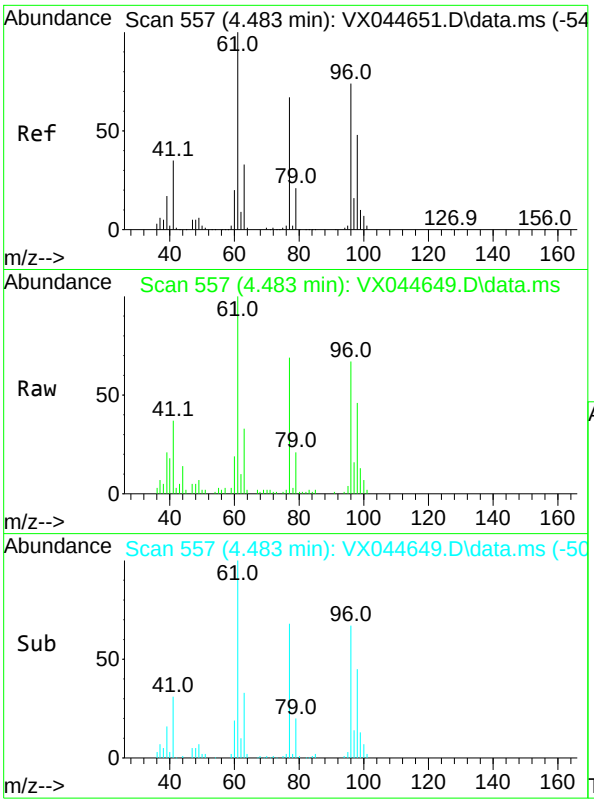




#26
2,2-Dichloropropane
Concen: 4.957 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 77 Resp: 21972

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.5 | 10.9 | 32.6 |



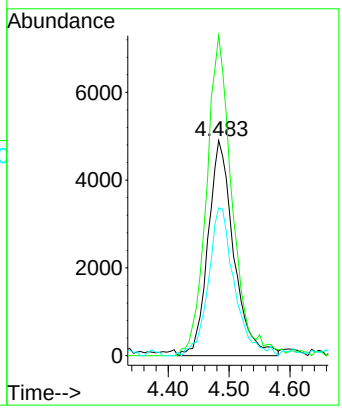


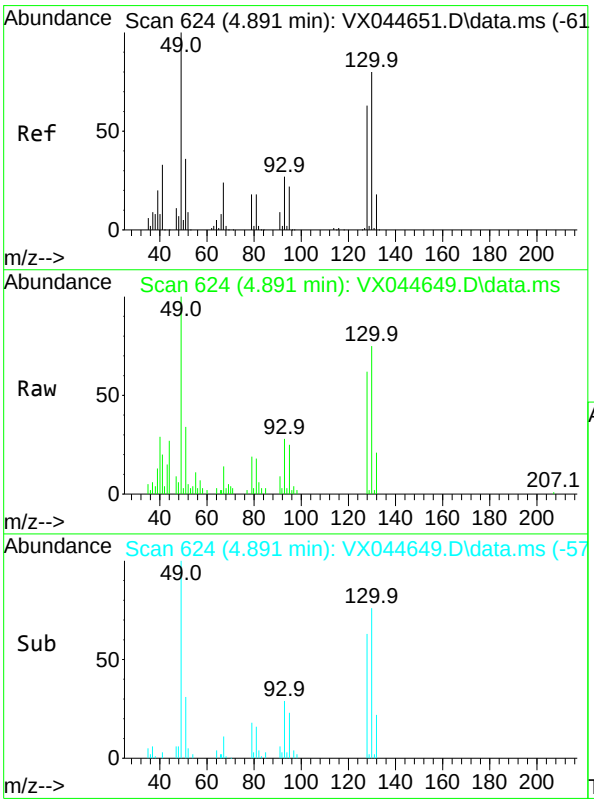

#27
cis-1,2-Dichloroethene
Concen: 4.777 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 96 Resp: 14297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 149.1 | 0.0 | 296.0 |
| 98 | 70.1 | 0.0 | 130.0 |

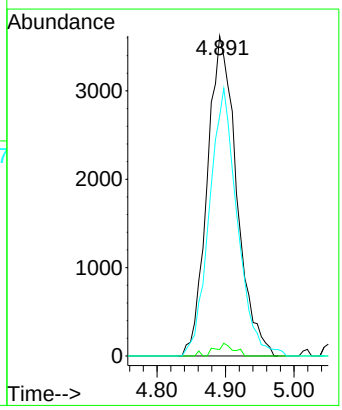


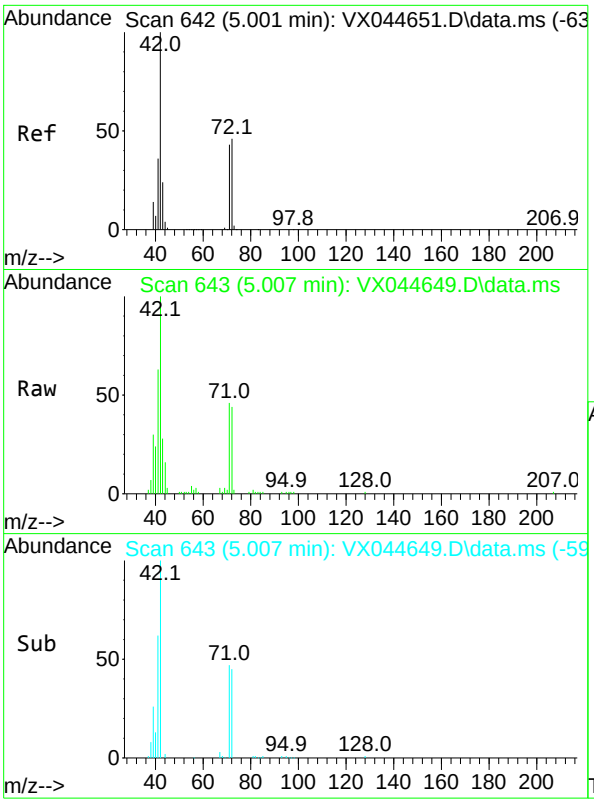




#28
Bromochloromethane
Concen: 5.046 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 49 Resp: 10785

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.4 | 0.0 | 4.4 |
| 130 | 79.7 | 63.4 | 95.2 |



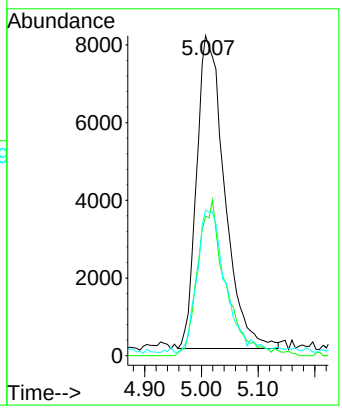


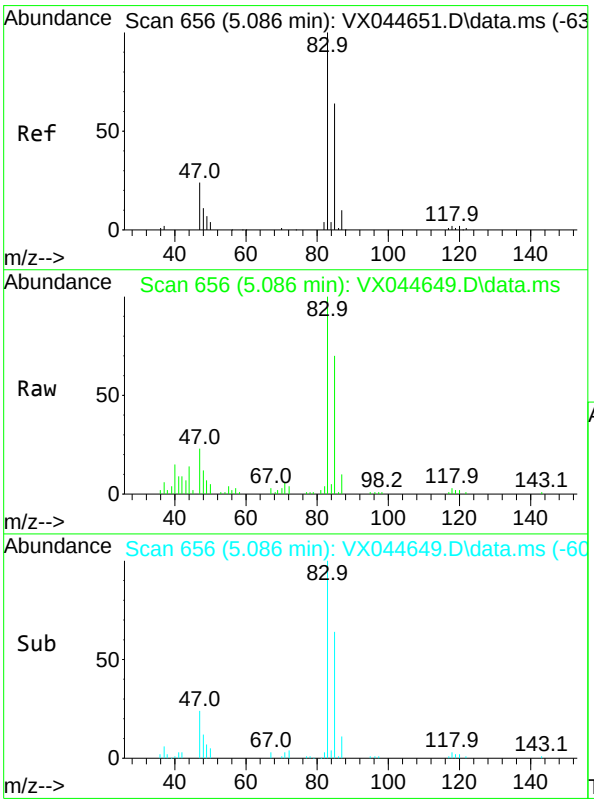

#29
Tetrahydrofuran
Concen: 24.762 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 42 Resp: 27602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.8 | 38.2 | 57.4 |
| 71 | 46.1 | 35.3 | 52.9 |

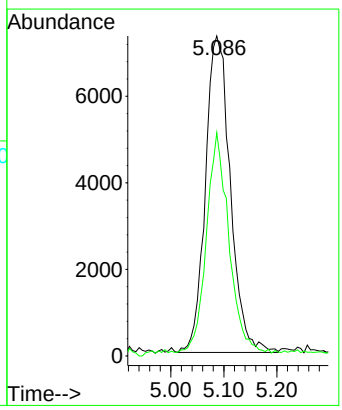


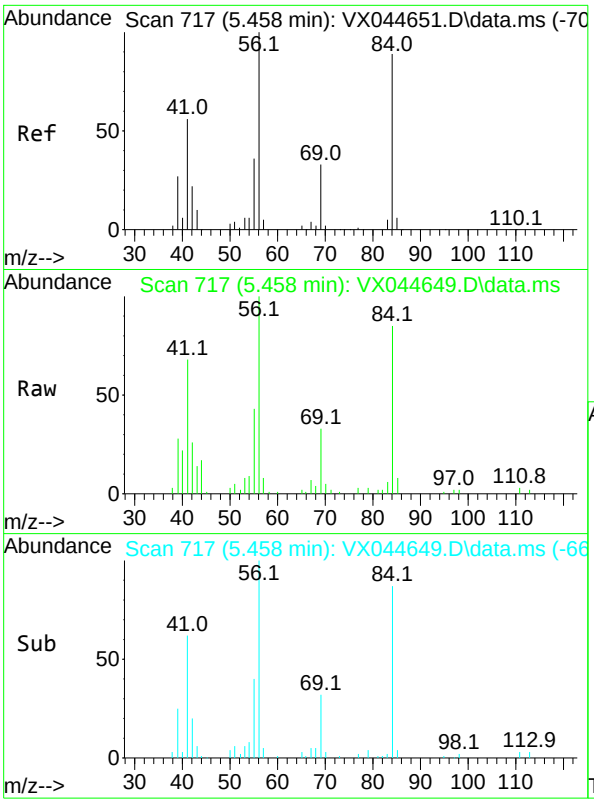




#30
Chloroform
Concen: 5.169 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 83 Resp: 23860

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 69.4 | 51.2 | 76.8 |



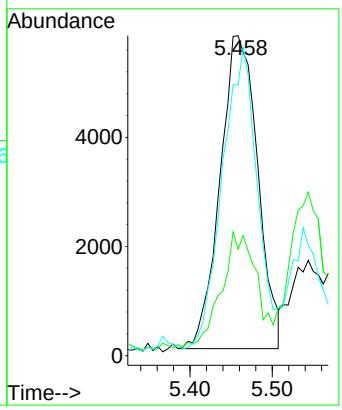


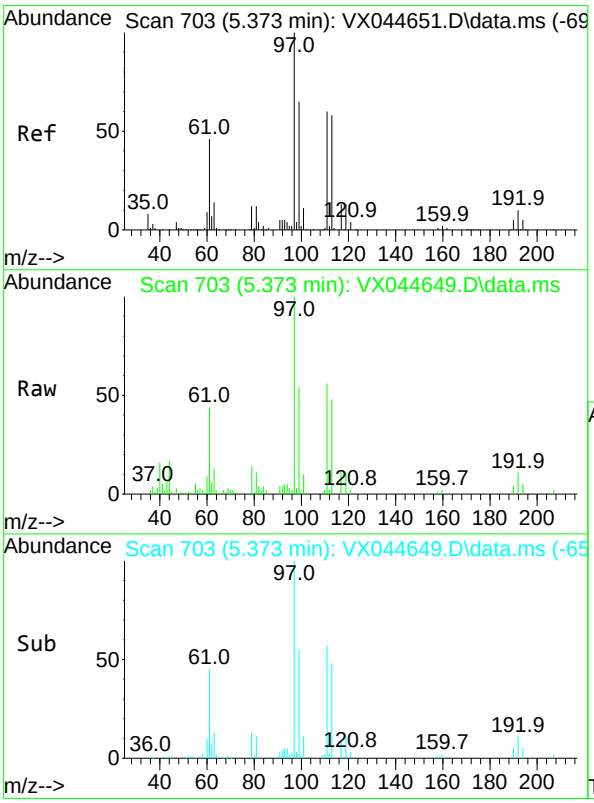

#31
Cyclohexane
Concen: 4.934 ug/l
RT: 5.458 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 56 Resp: 18252

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 30.5 | 26.8 | 40.2 |
| 84 | 83.4 | 71.0 | 106.4 |

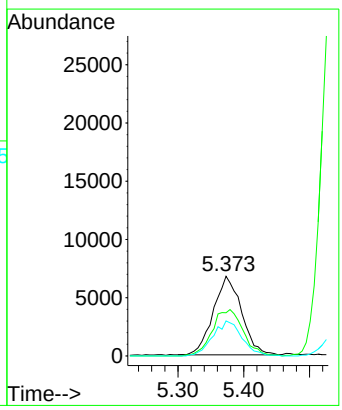


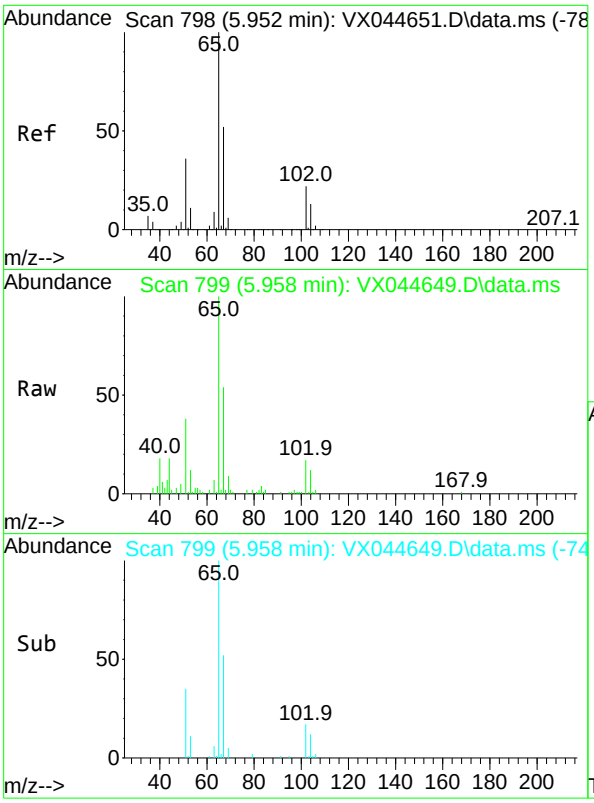




#32
1,1,1-Trichloroethane
Concen: 4.753 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 97 Resp: 20169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.4 | 51.6 | 77.4 |
| 61 | 45.9 | 35.6 | 53.4 |



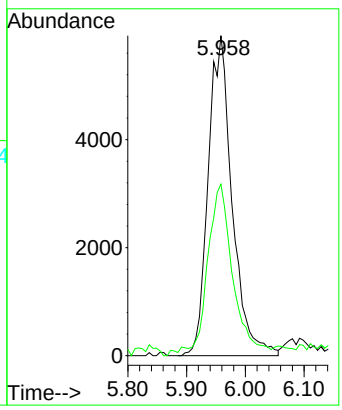


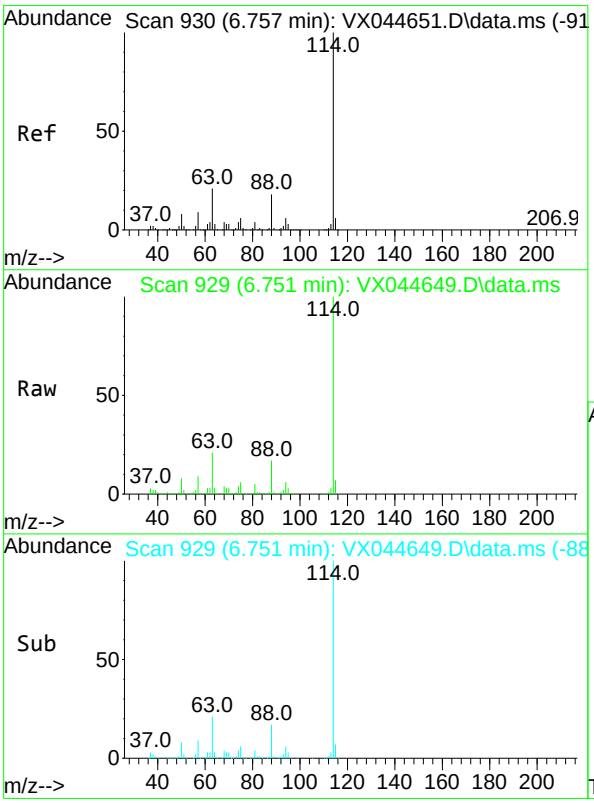

#33
1,2-Dichloroethane-d4
Concen: 5.717 ug/l
RT: 5.958 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 65 Resp: 16795

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 56.9 | 0.0 | 103.4 |

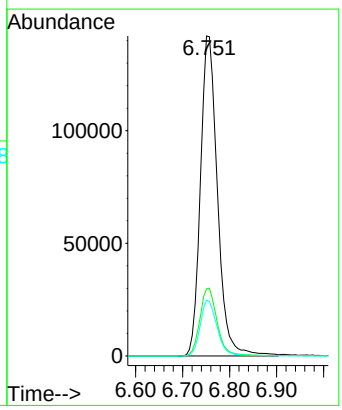


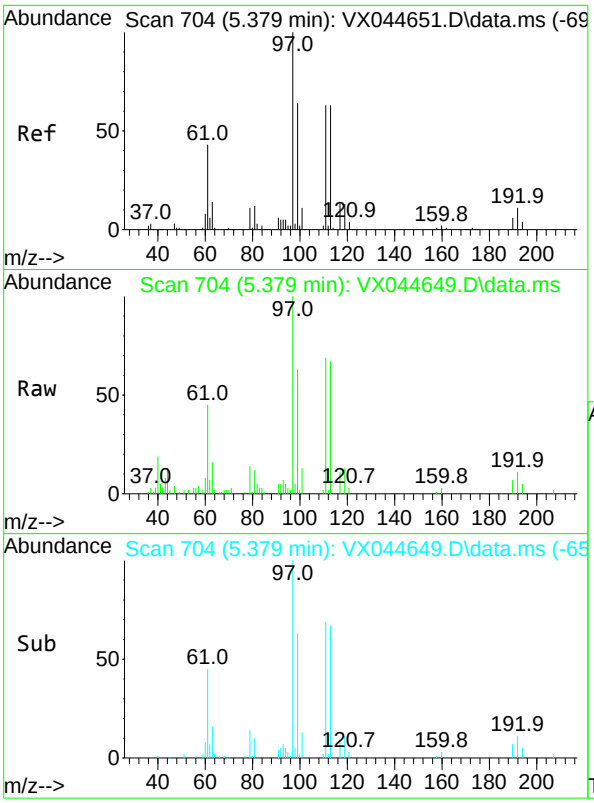




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:114 Resp: 357706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 43.0 |
| 88 | 17.4 | 0.0 | 35.4 |



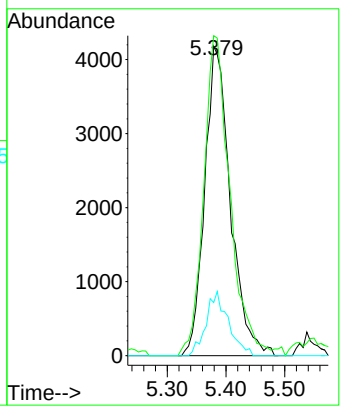


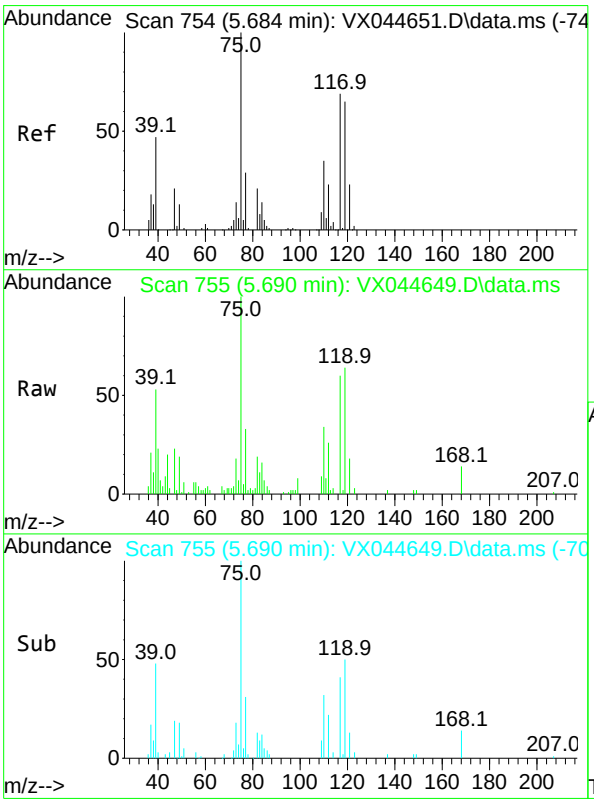

#35
Dibromofluoromethane
Concen: 5.594 ug/l
RT: 5.379 min Scan# 7(
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:113 Resp: 12712

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 105.1 | 81.6 | 122.4 |
| 192 | 17.9 | 14.4 | 21.6 |

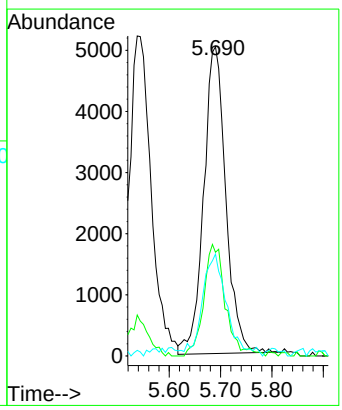


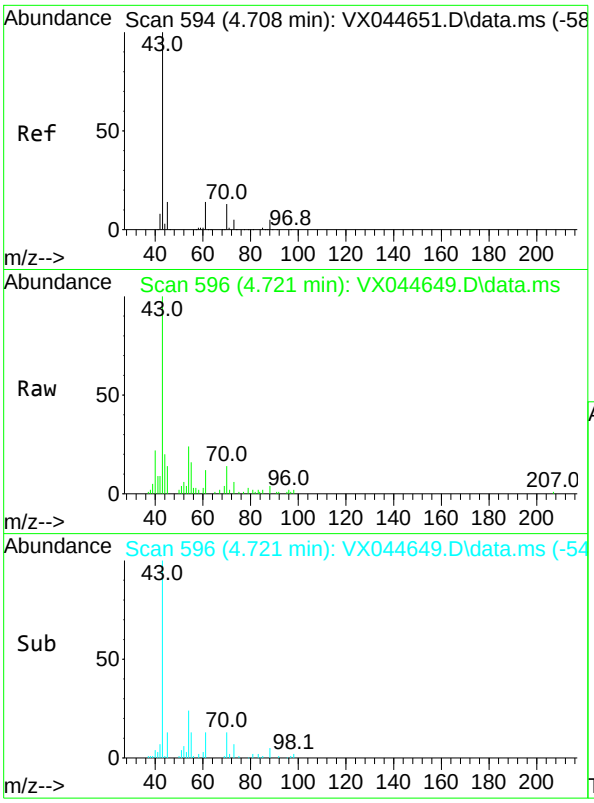




#36
1,1-Dichloropropene
Concen: 4.754 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 15040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 34.8 | 17.9 | 53.8 |
| 77 | 36.6 | 24.5 | 36.7 |



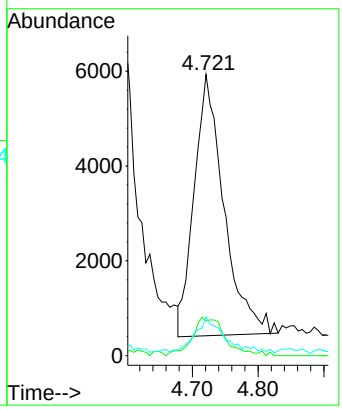


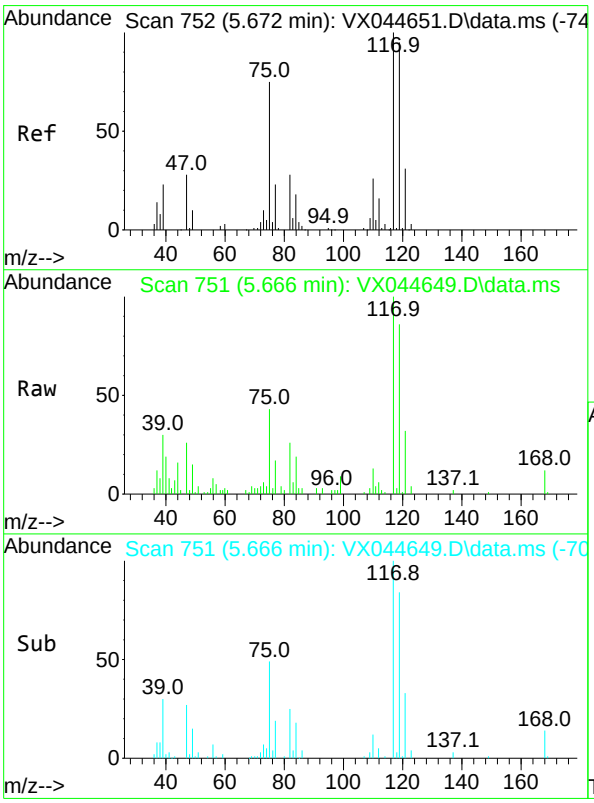

#37
Ethyl Acetate
Concen: 5.150 ug/l
RT: 4.721 min Scan# 5
Delta R.T. 0.012 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 17349

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 16.3 | 10.9 | 16.3 |
| 70 | 14.1 | 10.1 | 15.1 |

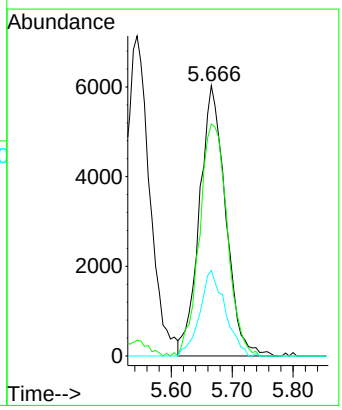


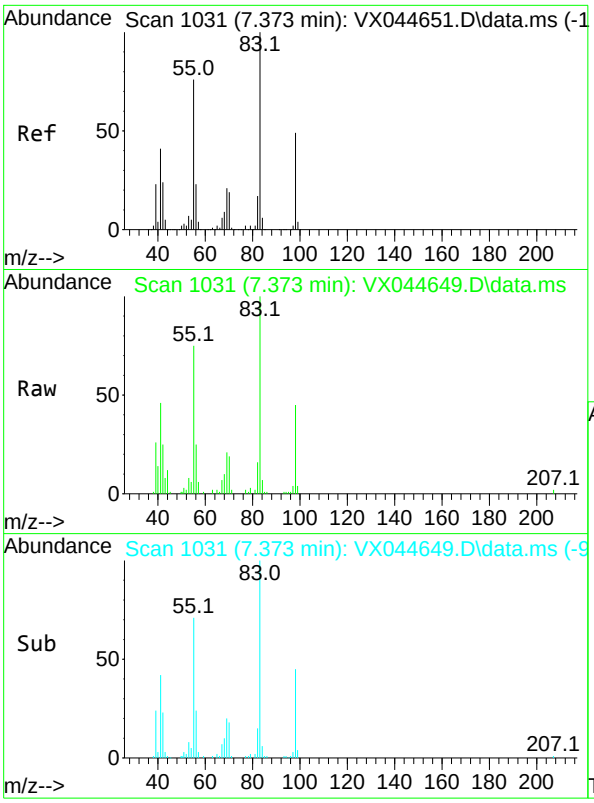




#38
Carbon Tetrachloride
Concen: 5.054 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:117 Resp: 17983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 85.8 | 76.0 | 114.0 |
| 121 | 31.6 | 24.6 | 36.8 |



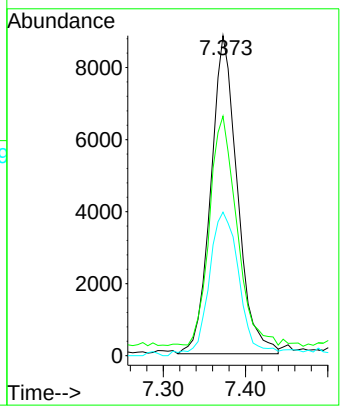


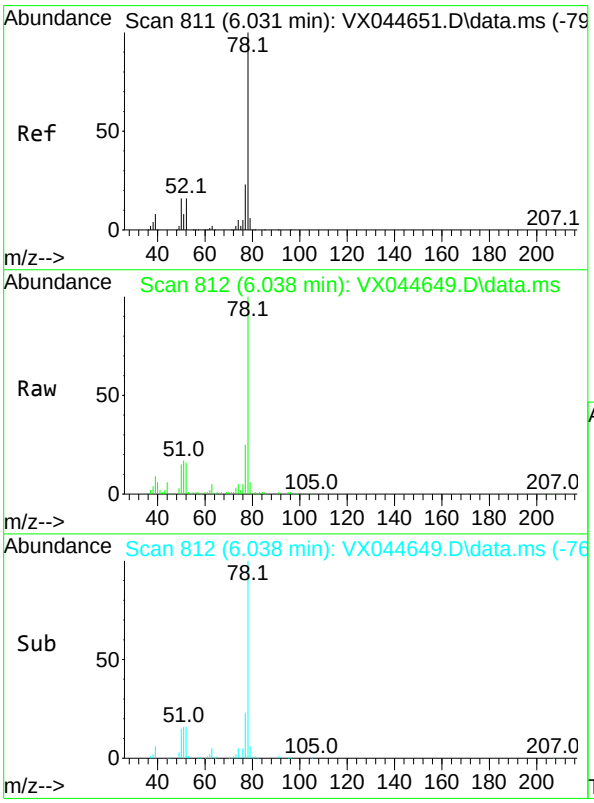

#39
Methylcyclohexane
Concen: 4.727 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 19848

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 72.0 | 60.5 | 90.7 |
| 98 | 44.2 | 39.0 | 58.4 |

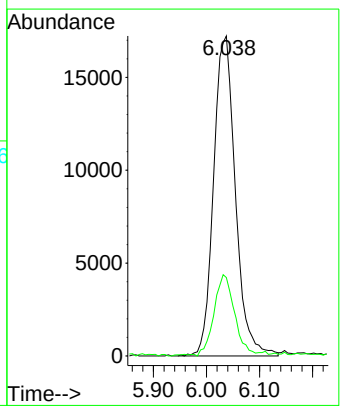


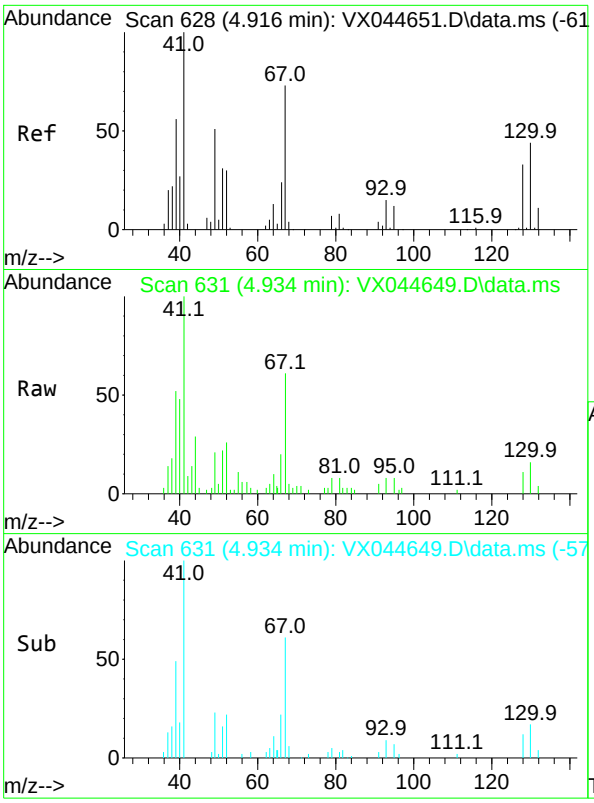




#40
Benzene
Concen: 5.023 ug/l
RT: 6.038 min Scan# 812
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 78 Resp: 49235

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.2 | 18.7 | 28.1 |



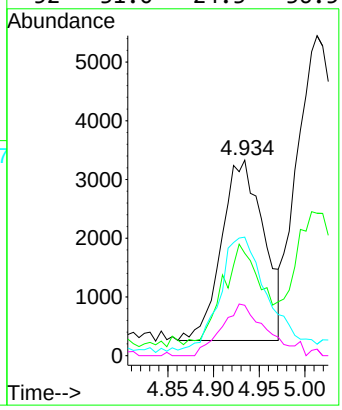


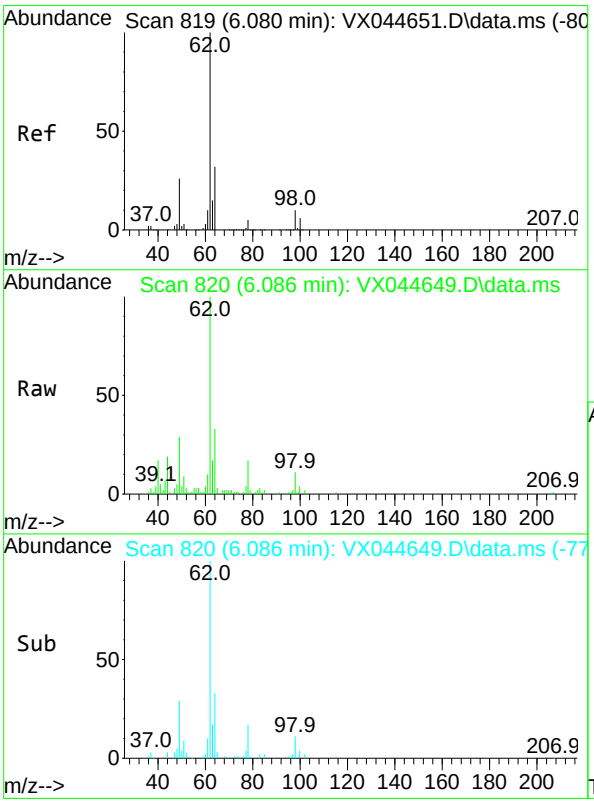

#41
Methacrylonitrile
Concen: 5.054 ug/l
RT: 4.934 min Scan# 6
Delta R.T. 0.018 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 41 Resp: 9920

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 52.9 | 44.4 | 66.6 |
| 67 | 74.3 | 60.6 | 90.8 |
| 52 | 31.0 | 24.3 | 36.5 |

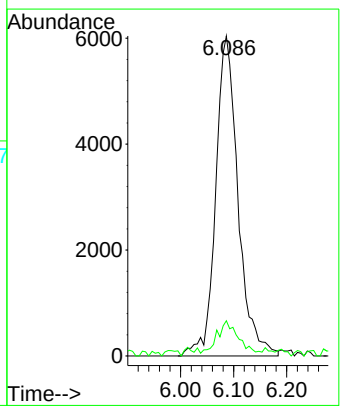


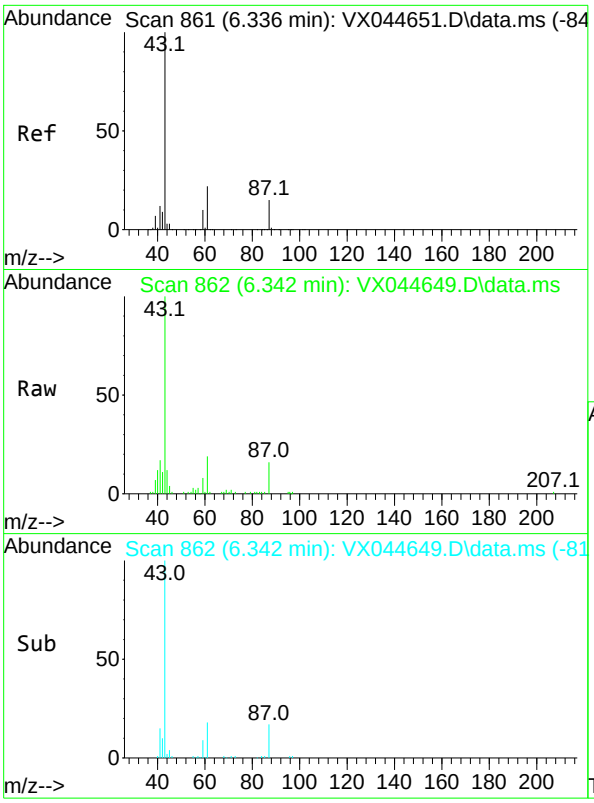




#42
1,2-Dichloroethane
Concen: 4.941 ug/l
RT: 6.086 min Scan# 820
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 62 Resp: 17678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.9 | 0.0 | 19.4 |



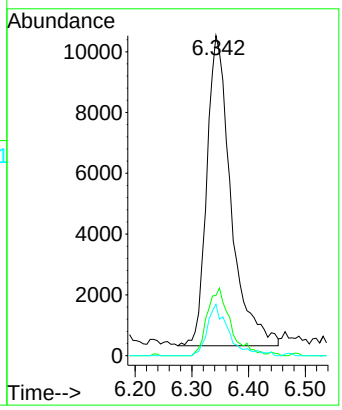


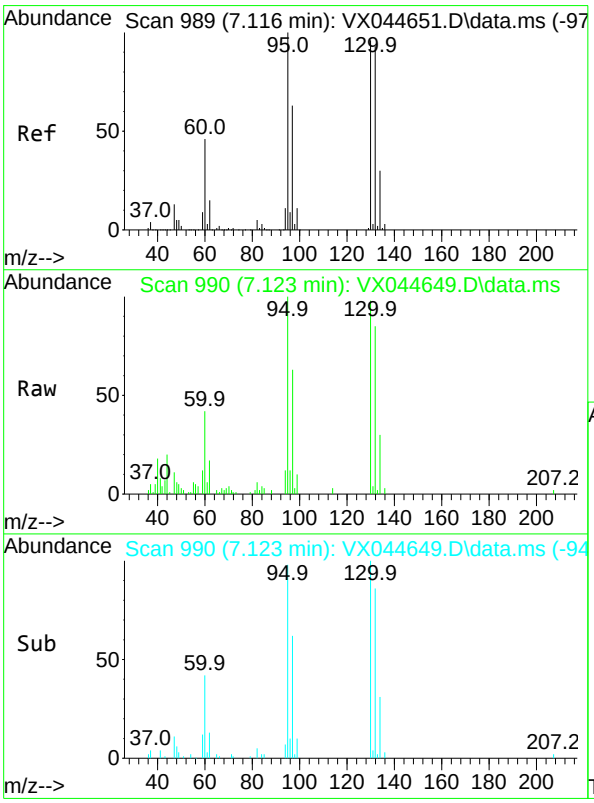

#43
Isopropyl Acetate
Concen: 4.877 ug/l
RT: 6.342 min Scan# 8
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 30226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.0 | 16.6 | 24.8 |
| 87 | 14.7 | 11.0 | 16.6 |

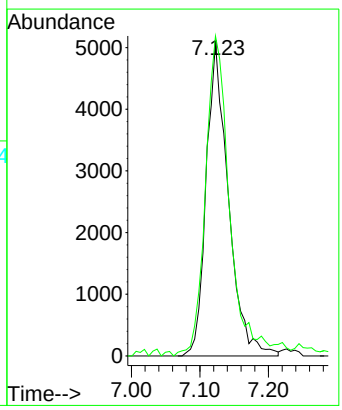


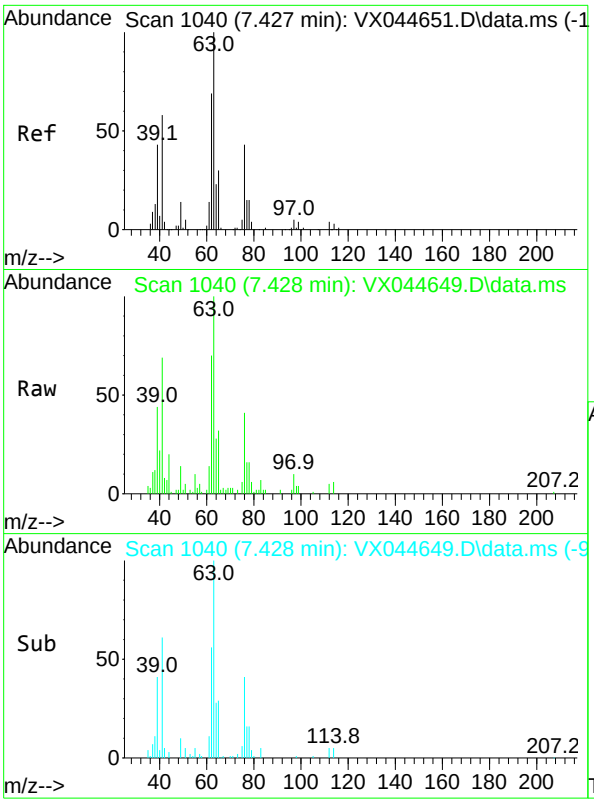




#44
Trichloroethene
Concen: 4.849 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:130 Resp: 11427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.7 | 0.0 | 208.2 |



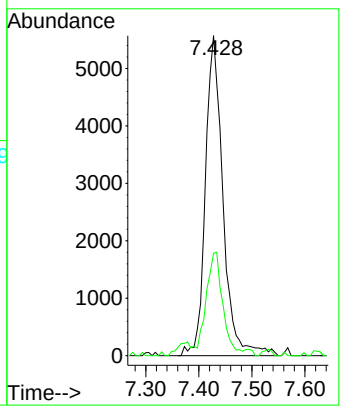


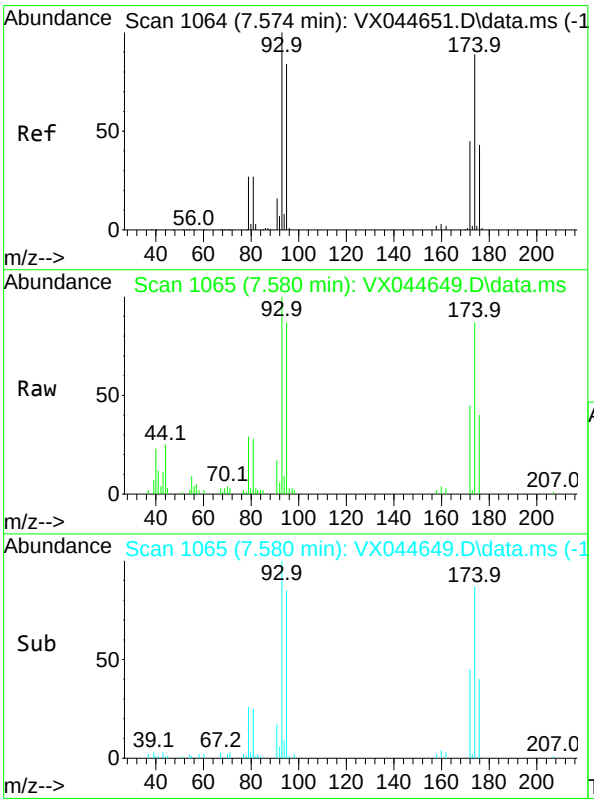

#45
1,2-Dichloropropane
Concen: 5.199 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 63 Resp: 12829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.0 | 24.2 | 36.2 |

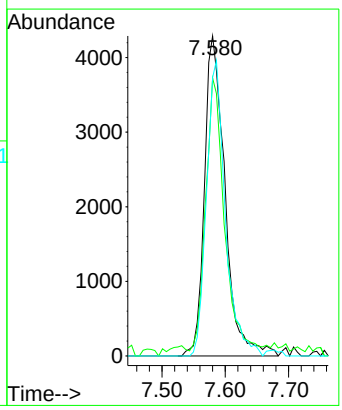


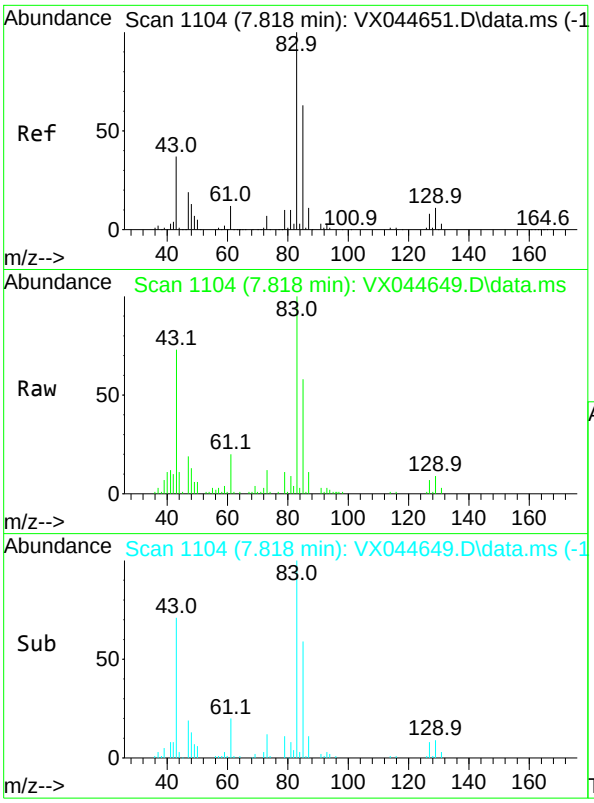




#46
Dibromomethane
Concen: 5.156 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 93 Resp: 9684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 77.5 | 66.4 | 99.6 |
| 174 | 84.6 | 72.0 | 108.0 |



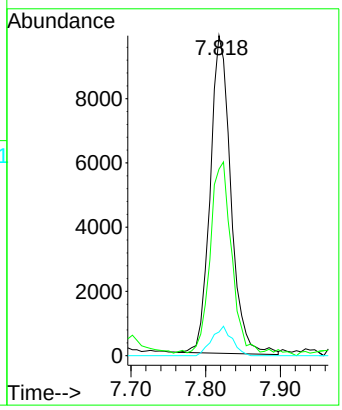


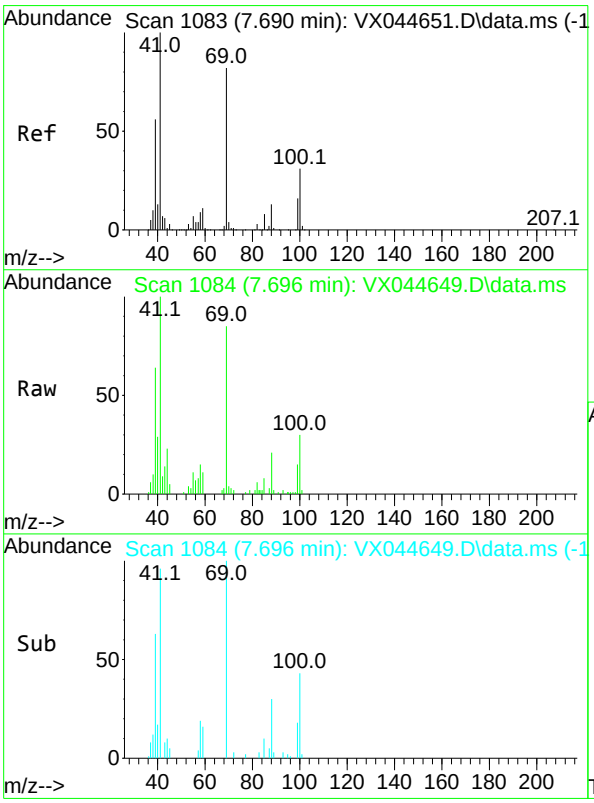

#47
Bromodichloromethane
Concen: 4.923 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 18964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 57.7 | 50.1 | 75.1 |
| 127 | 7.5 | 6.5 | 9.7 |

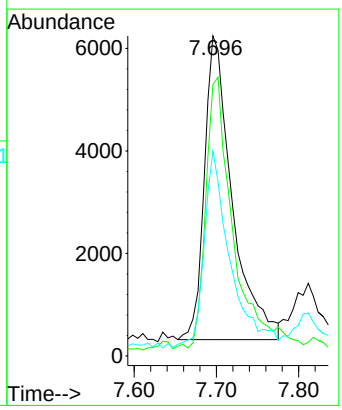


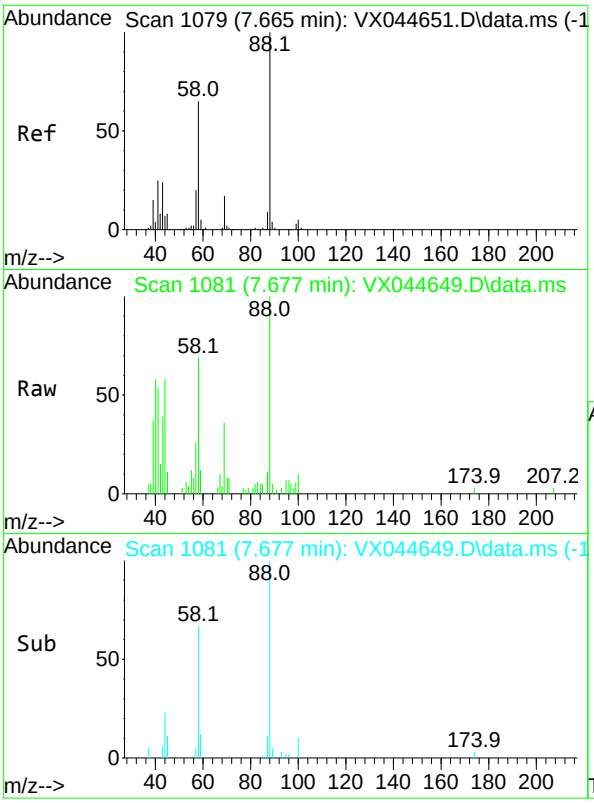




#48
Methyl methacrylate
Concen: 4.844 ug/l
RT: 7.696 min Scan# 1084
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 41 Resp: 13933

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 86.9 | 66.8 | 100.2 |
| 39 | 60.6 | 47.4 | 71.0 |



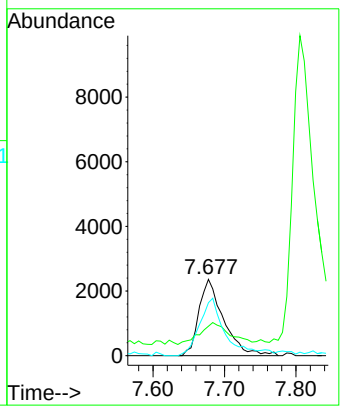


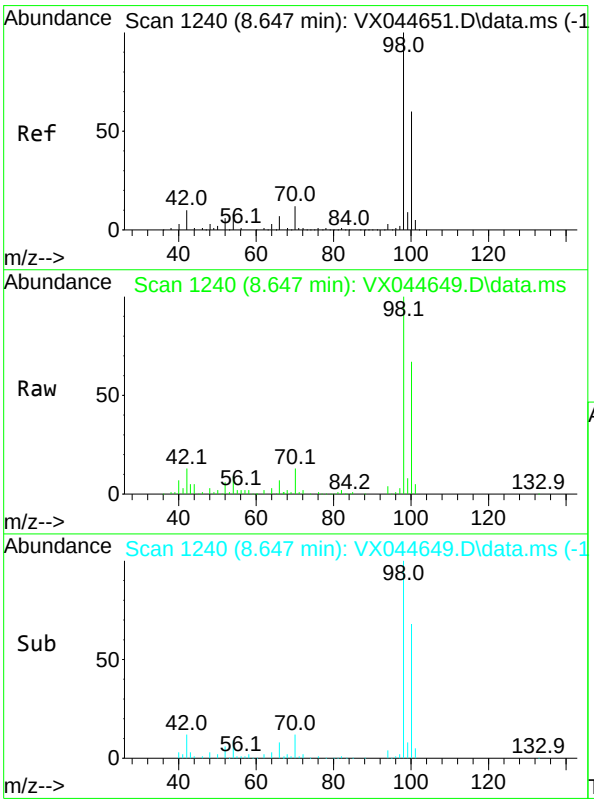

#49
1,4-Dioxane
Concen: 94.542 ug/l
RT: 7.677 min Scan# 1
Delta R.T. 0.012 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 88 Resp: 5674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.3 | 27.0 | 40.4 |
| 58 | 74.9 | 55.8 | 83.8 |

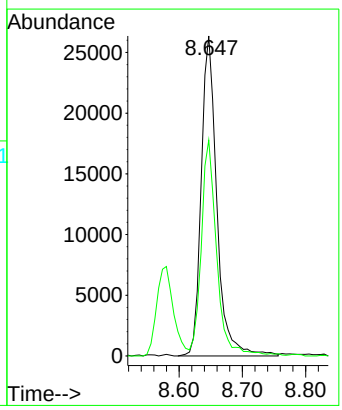


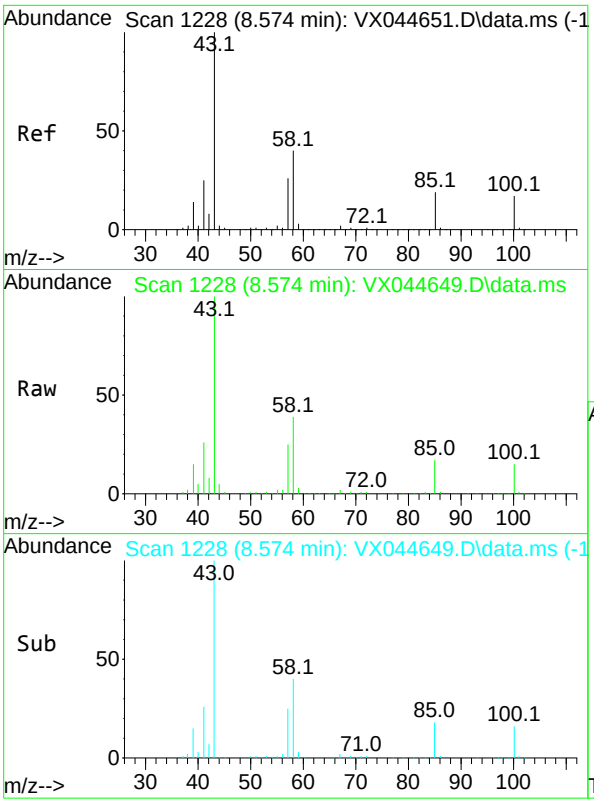




#50
Toluene-d8
Concen: 5.733 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 98 Resp: 45425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 64.1 | 53.2 | 79.8 |



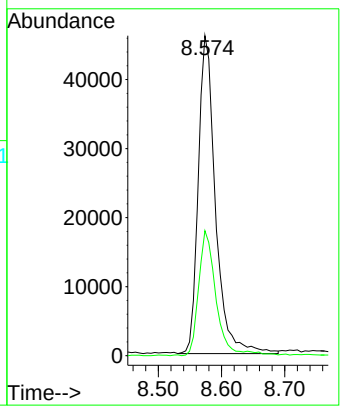


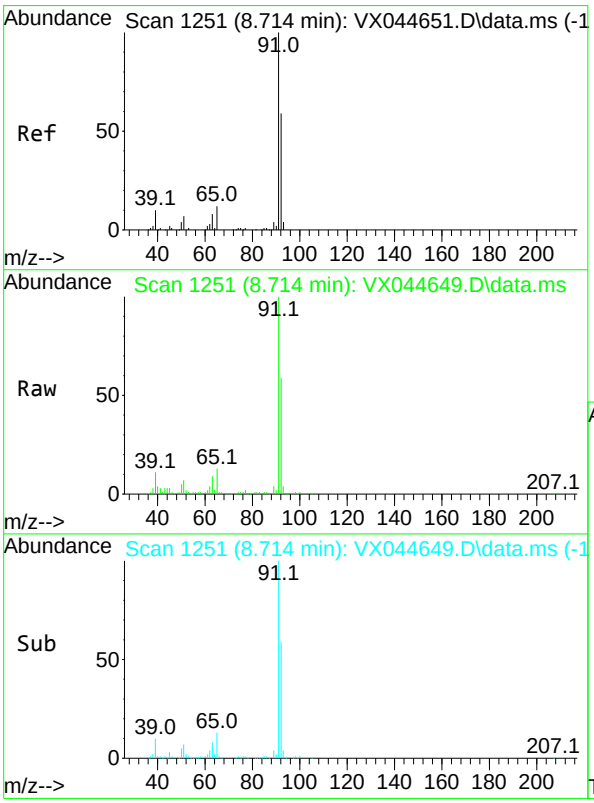

#51
4-Methyl-2-Pentanone
Concen: 25.551 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 87503

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.4 | 31.9 | 47.9 |

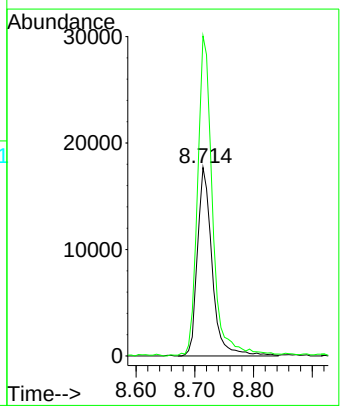


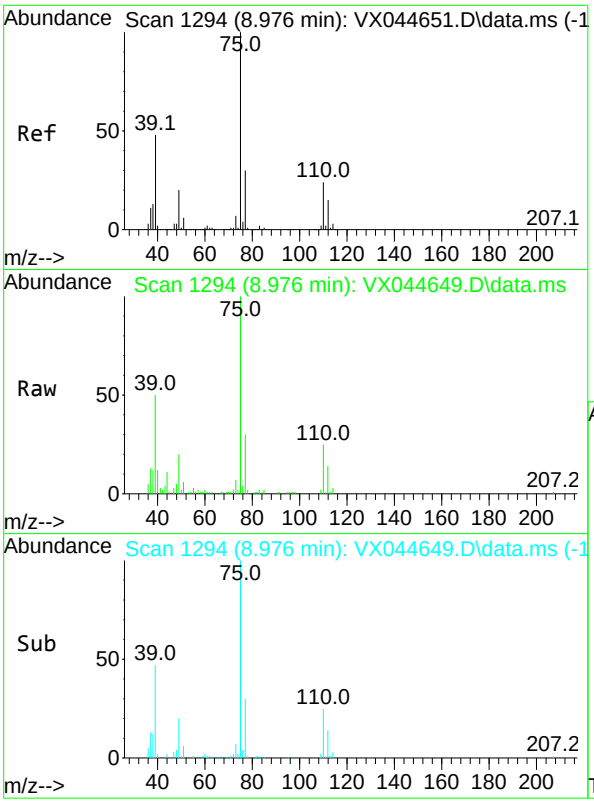




#52
Toluene
Concen: 5.149 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 92 Resp: 30892

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.3 | 135.7 | 203.5 |



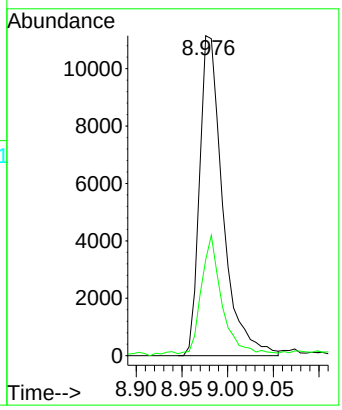


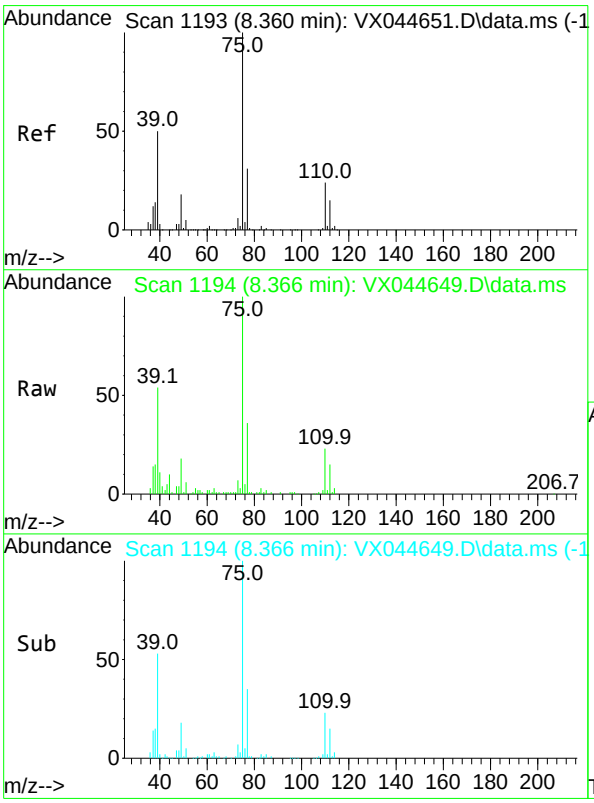

#53
t-1,3-Dichloropropene
Concen: 4.954 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 75 Resp: 19714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.4 | 24.4 | 36.6 |

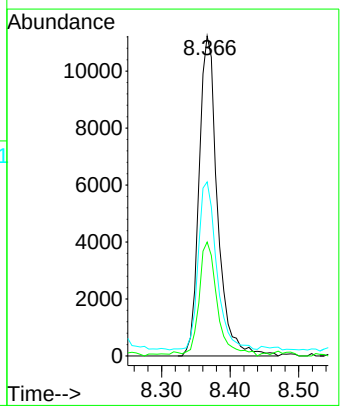


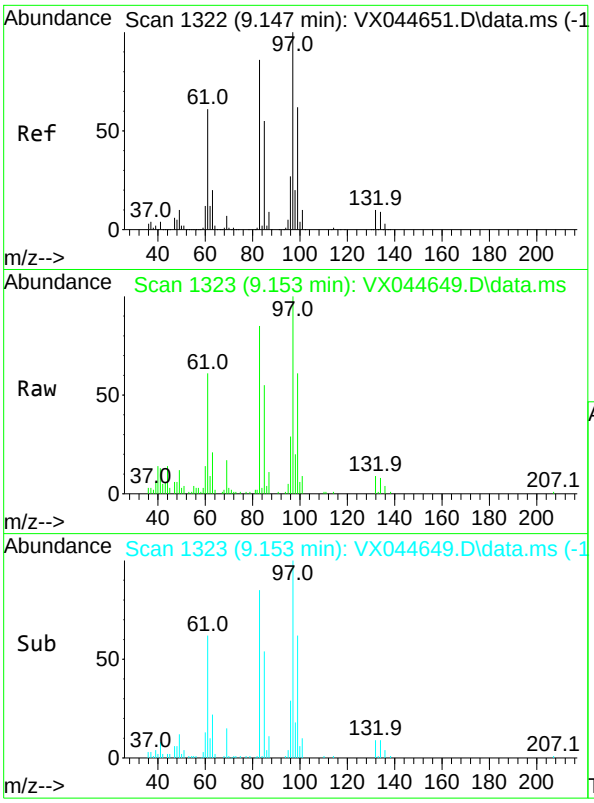




#54
cis-1,3-Dichloropropene
Concen: 4.879 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 21054

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 34.6 | 25.1 | 37.7 |
| 39 | 52.2 | 40.3 | 60.5 |



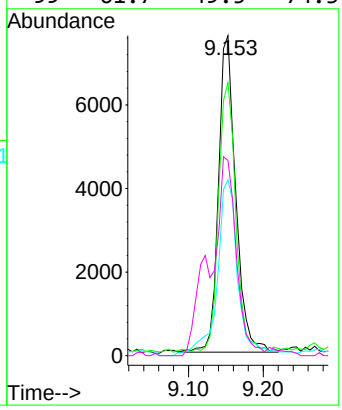


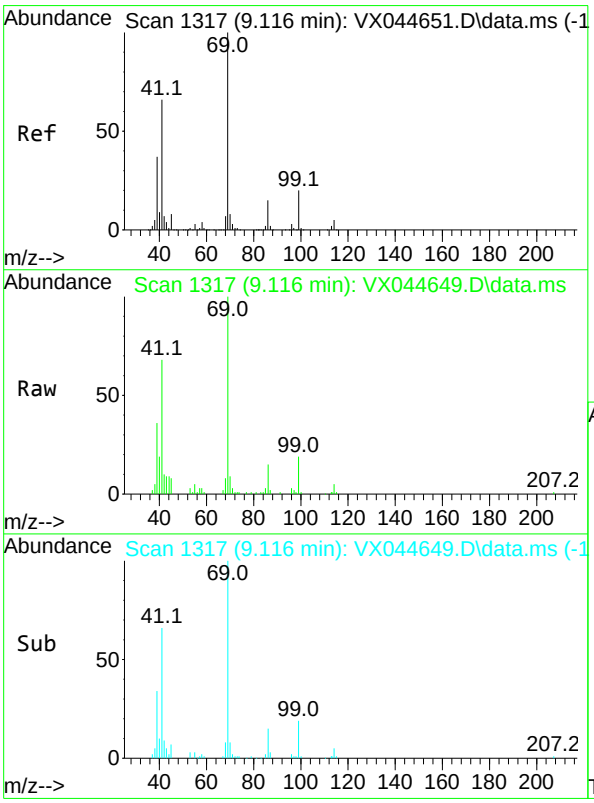

#55
1,1,2-Trichloroethane
Concen: 5.037 ug/l
RT: 9.153 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 97 Resp: 12227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.6 | 68.8 | 103.2 |
| 85 | 54.6 | 43.7 | 65.5 |
| 99 | 61.7 | 49.5 | 74.3 |

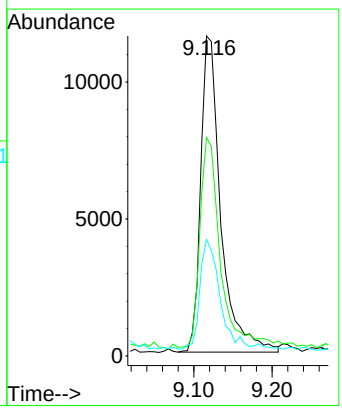


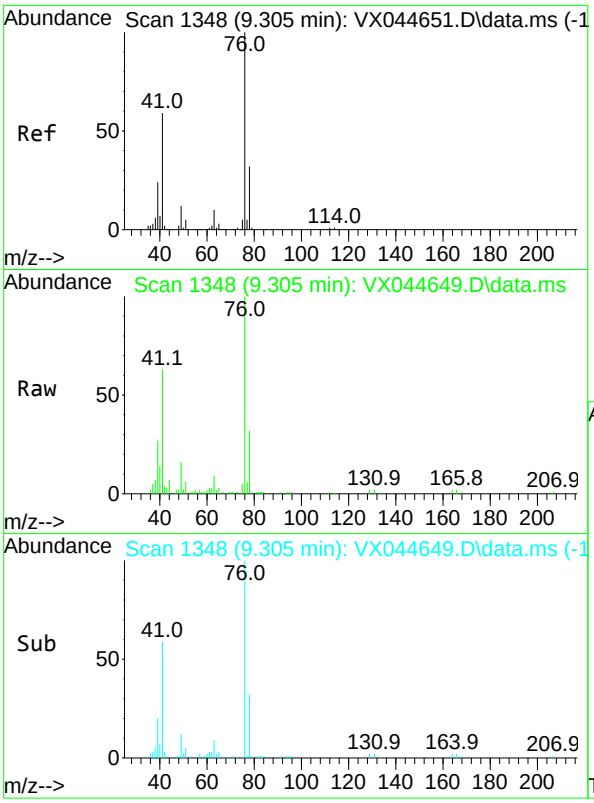




#56
Ethyl methacrylate
Concen: 4.935 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 69 Resp: 20596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 68.9 | 53.2 | 79.8 |
| 39 | 33.8 | 30.2 | 45.2 |



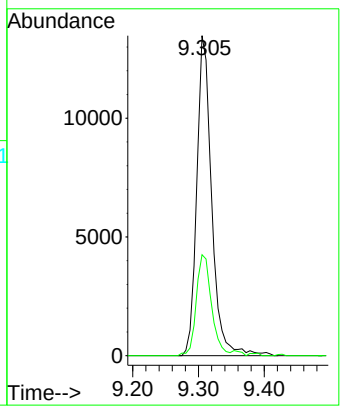


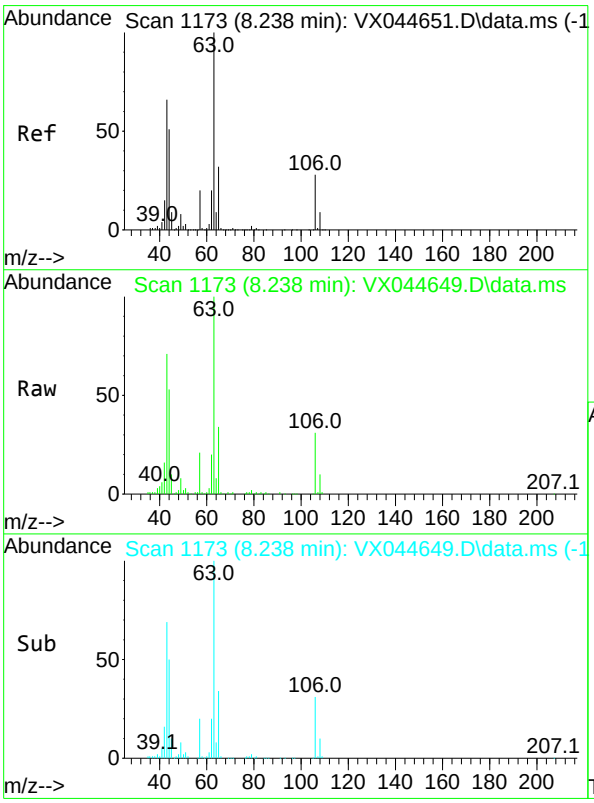

#57
1,3-Dichloropropane
Concen: 5.142 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 76 Resp: 21253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 26.0 | 39.0 |

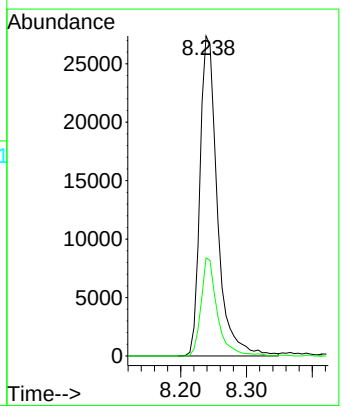


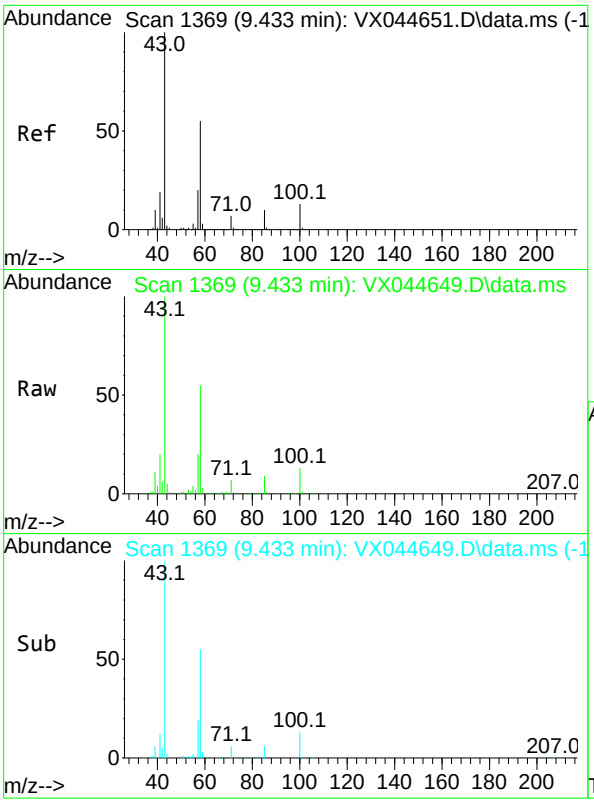




#58
2-Chloroethyl Vinyl ether
Concen: 24.557 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 63 Resp: 50319

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.7 | 23.0 | 34.6 |



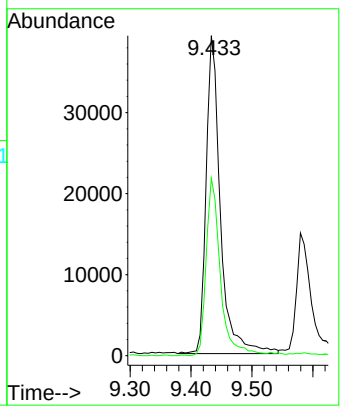


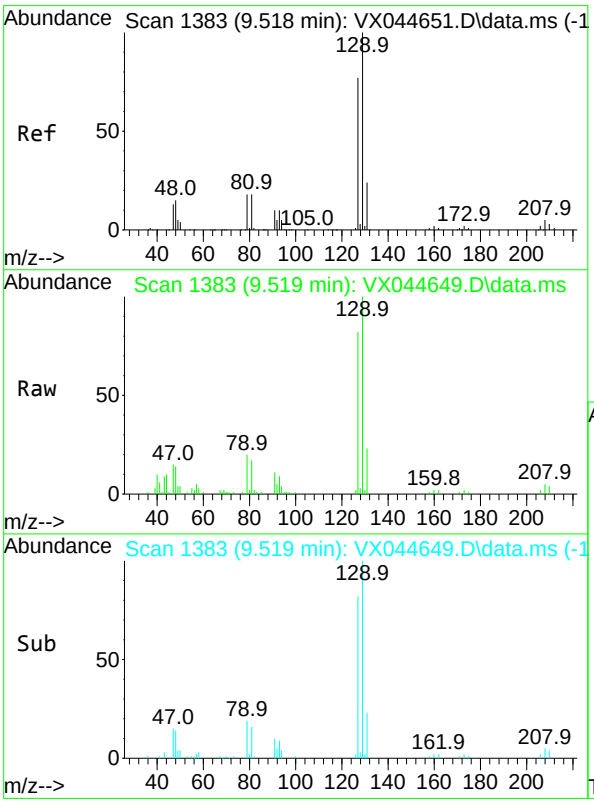

#59
2-Hexanone
Concen: 25.395 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 43 Resp: 63985

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.5 | 27.8 | 83.3 |

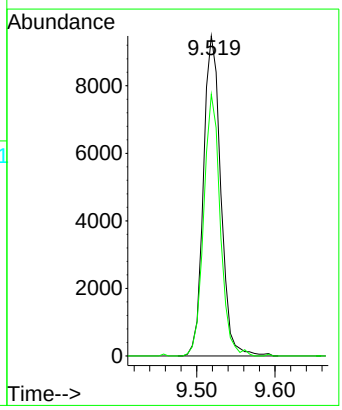


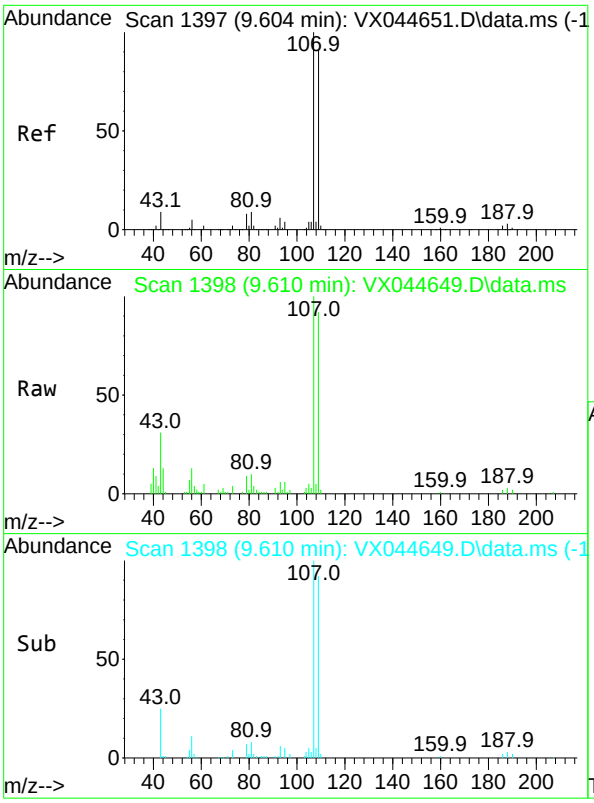




#60
Dibromochloromethane
Concen: 5.108 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:129 Resp: 14553

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.0 | 38.5 | 115.5 |



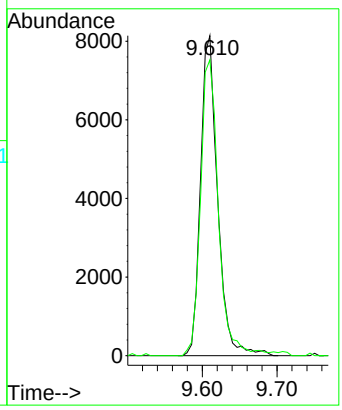


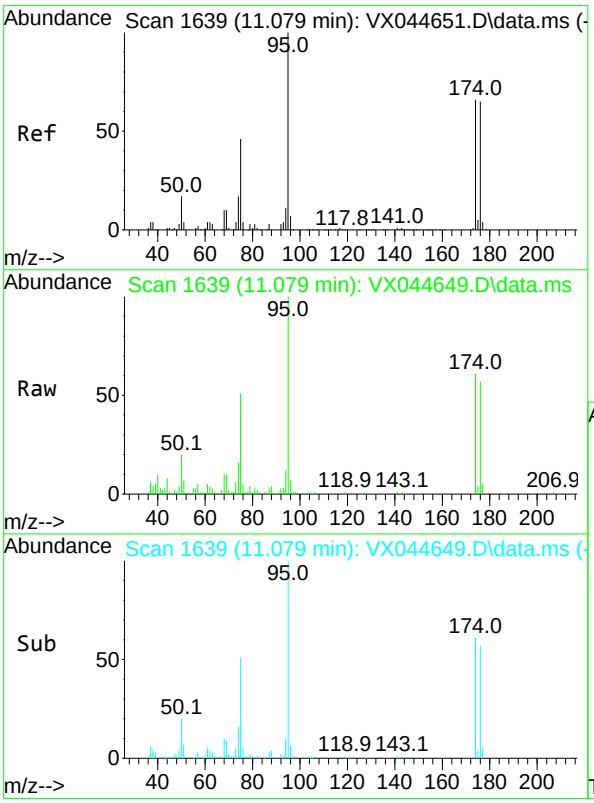

#61
1,2-Dibromoethane
Concen: 5.077 ug/l
RT: 9.610 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:107 Resp: 12916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 97.2 | 75.3 | 112.9 |

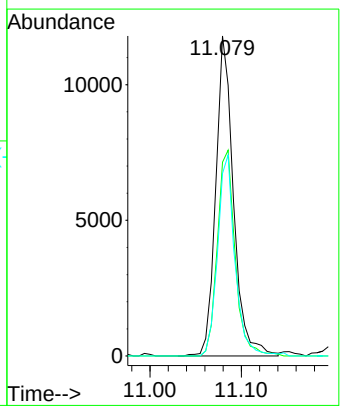


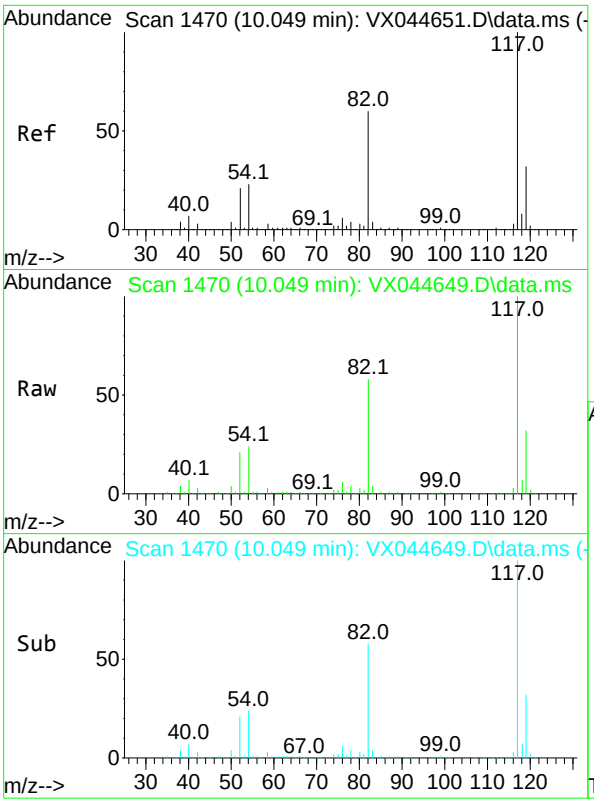




#62
4-Bromofluorobenzene
Concen: 5.386 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 95 Resp: 15909

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 64.6 | 0.0 | 133.0 |
| 176 | 61.6 | 0.0 | 129.4 |



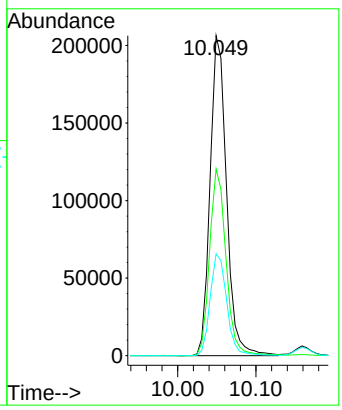


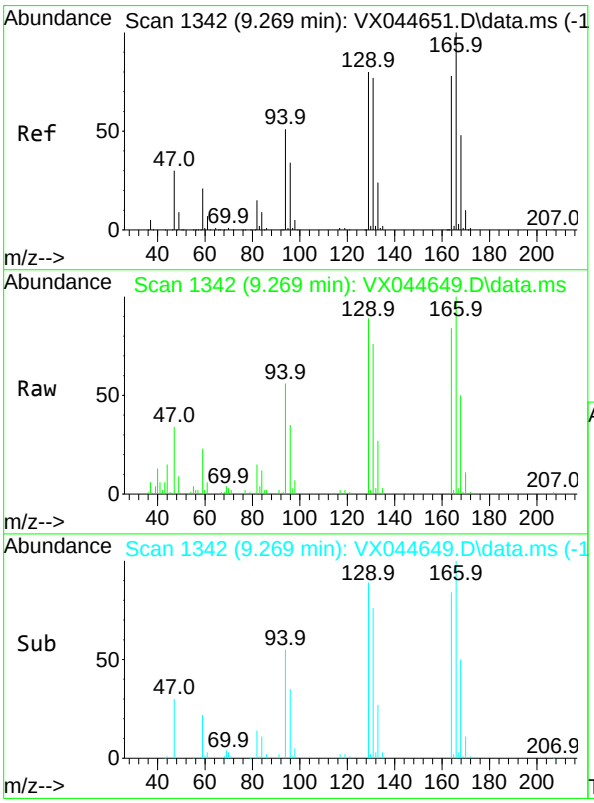

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:117 Resp: 300165

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.3 | 47.6 | 71.4 |
| 119 | 31.9 | 25.4 | 38.2 |

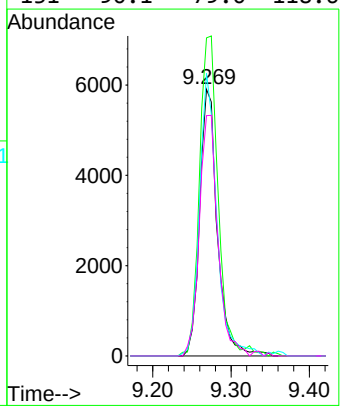


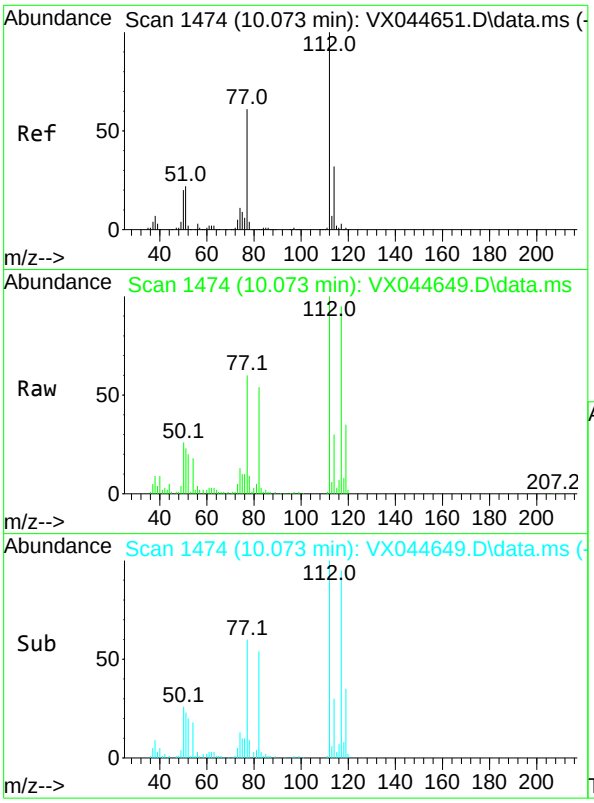




#64
Tetrachloroethene
Concen: 4.920 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:164 Resp: 9274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 119.3 | 102.0 | 153.0 |
| 129 | 106.0 | 81.1 | 121.7 |
| 131 | 90.1 | 79.0 | 118.6 |



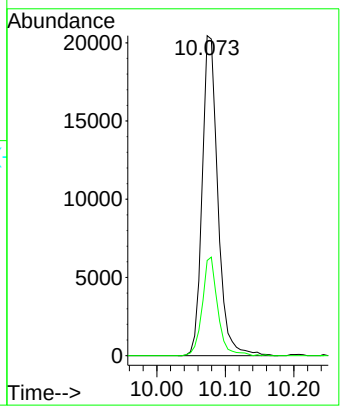


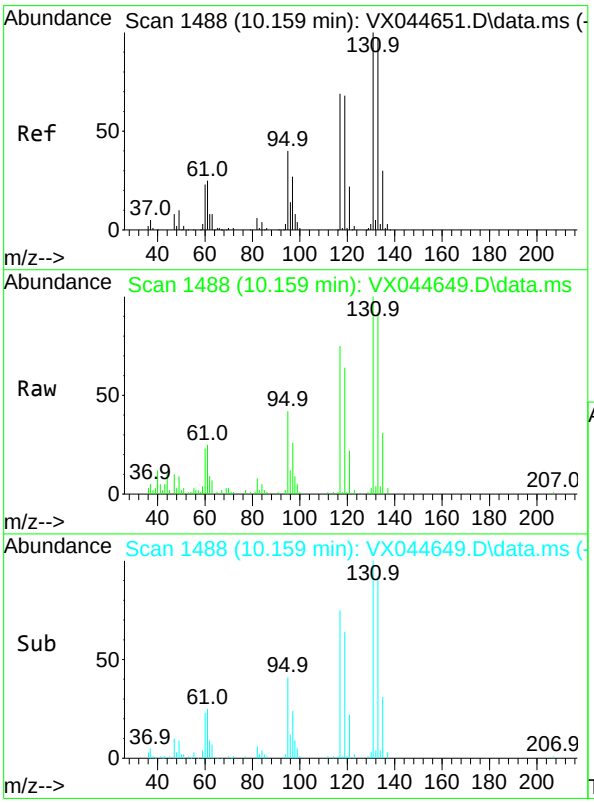

#65
Chlorobenzene
Concen: 5.109 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:112 Resp: 32572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 29.8 | 25.3 | 37.9 |

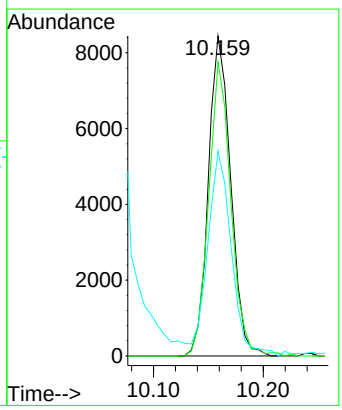


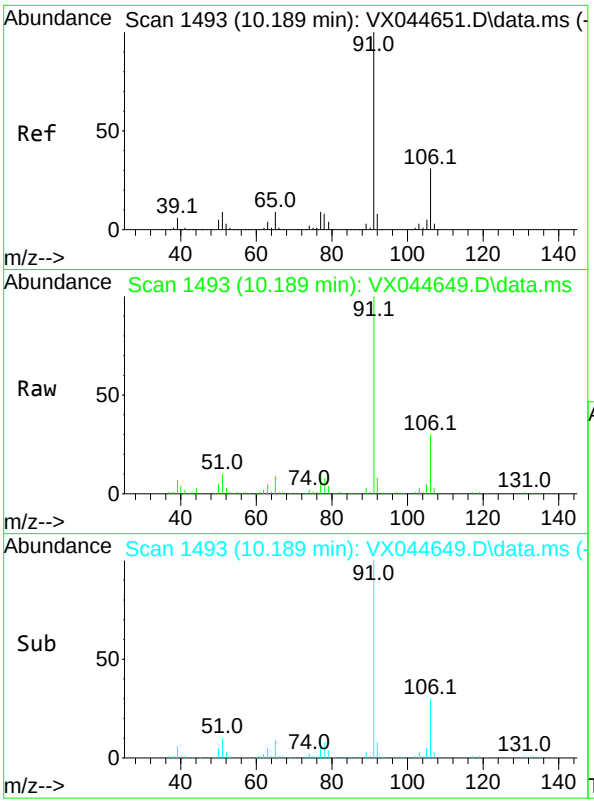




#66
1,1,1,2-Tetrachloroethane
Concen: 5.160 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:131 Resp: 11955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 91.8 | 47.8 | 143.3 |
| 119 | 67.1 | 33.4 | 100.2 |



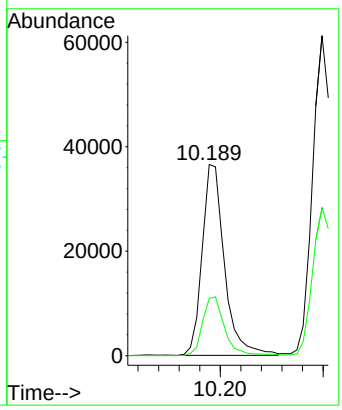


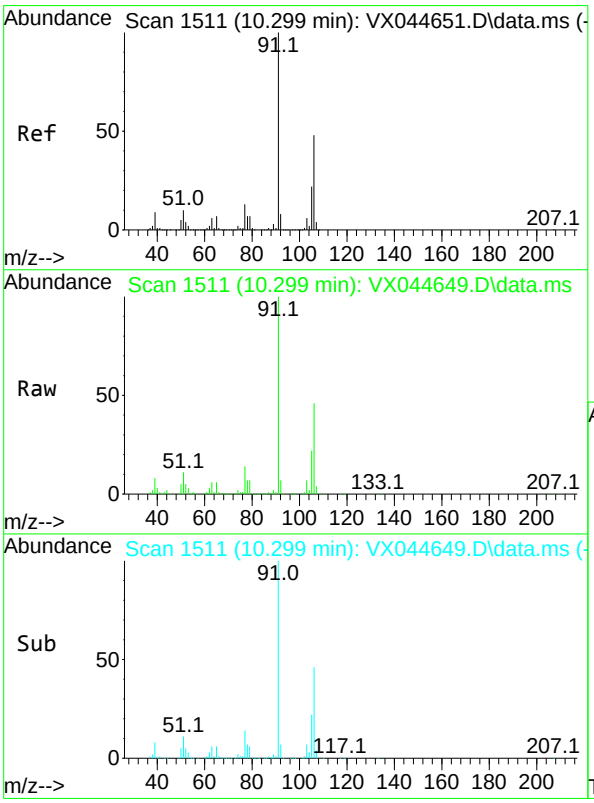

#67
Ethyl Benzene
Concen: 4.963 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 55208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.0 | 25.0 | 37.6 |

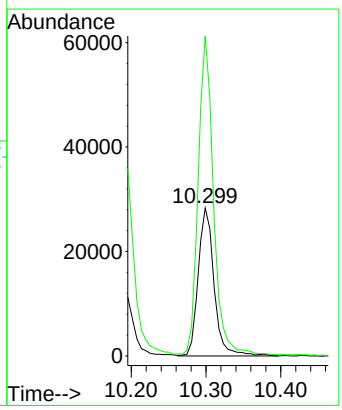


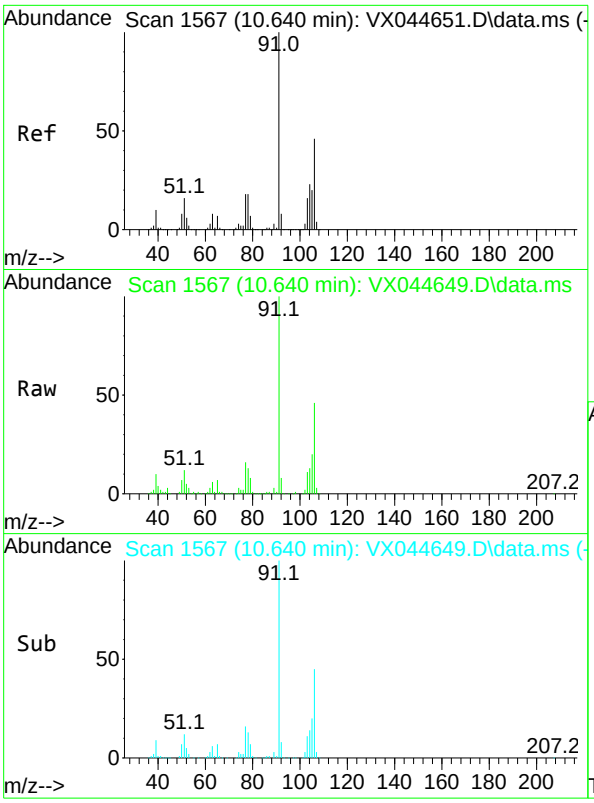




#68
m/p-Xylenes
Concen: 10.129 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:106 Resp: 41816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.3 | 166.4 | 249.6 |



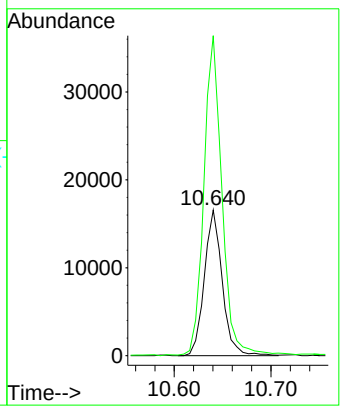


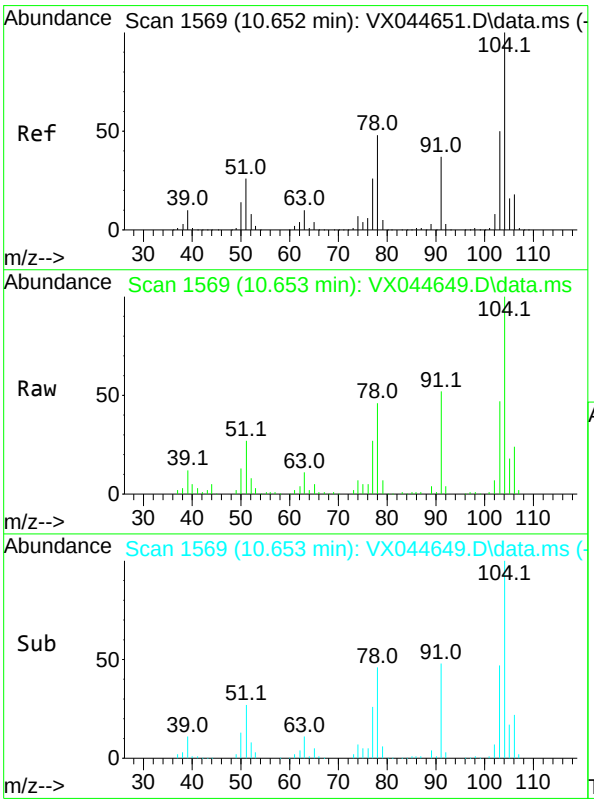

#69
o-Xylene
Concen: 5.124 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:106 Resp: 21392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 223.1 | 108.7 | 326.3 |

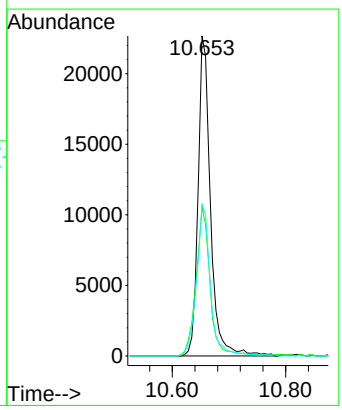


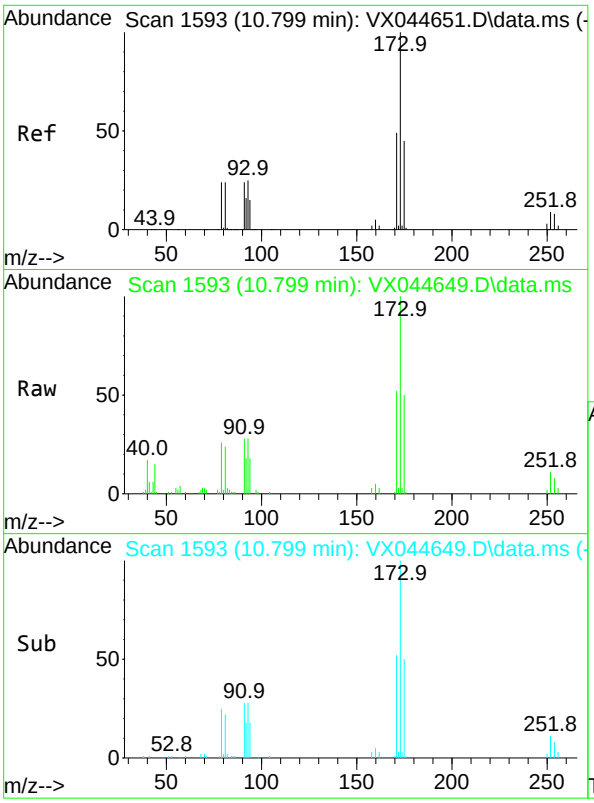




#70
Styrene
Concen: 5.105 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:104 Resp: 34407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.8 | 43.0 | 64.6 |
| 103 | 52.7 | 43.4 | 65.2 |



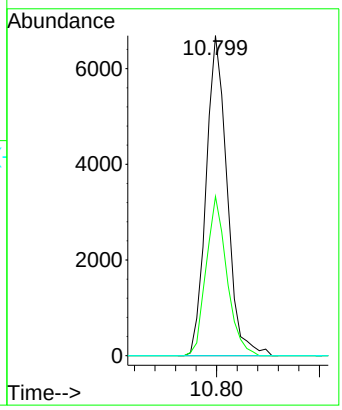


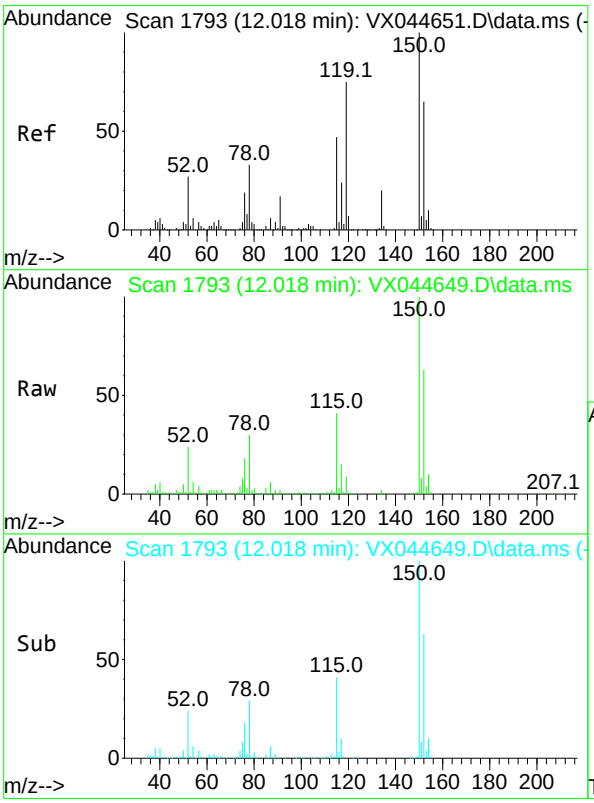

#71
Bromoform
Concen: 5.012 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:173 Resp: 9452

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 49.3 | 23.6 | 70.8 |
| 254 | 0.0 | 0.1 | 0.1# |

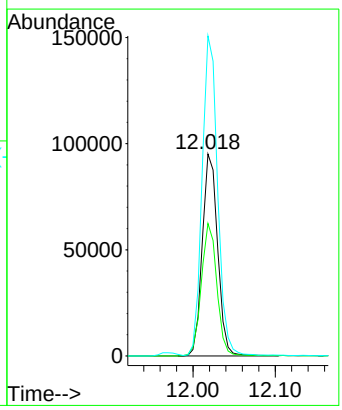


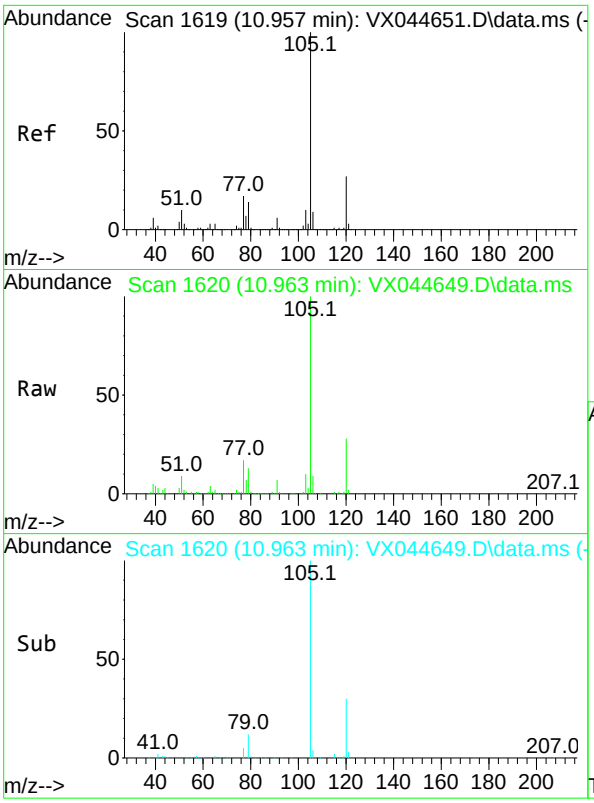




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:152 Resp: 123491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 66.3 | 43.8 | 131.4 |
| 150 | 158.9 | 0.0 | 347.8 |



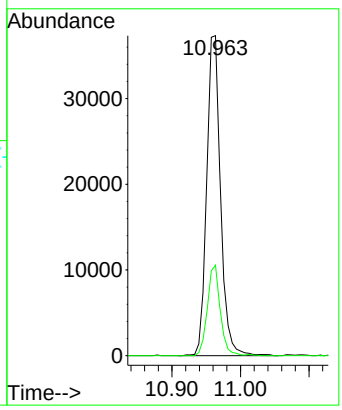


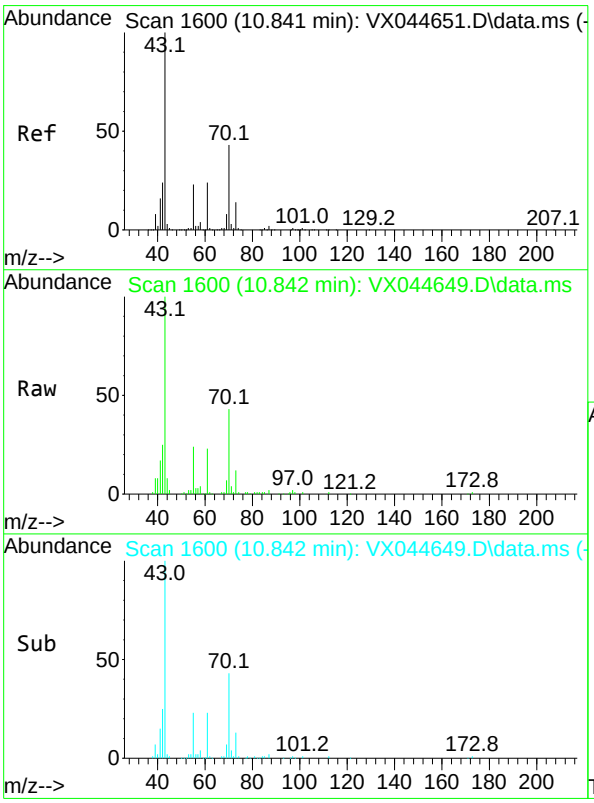

#73
Isopropylbenzene
Concen: 5.214 ug/l
RT: 10.963 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:105 Resp: 52599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.2 | 39.6 |

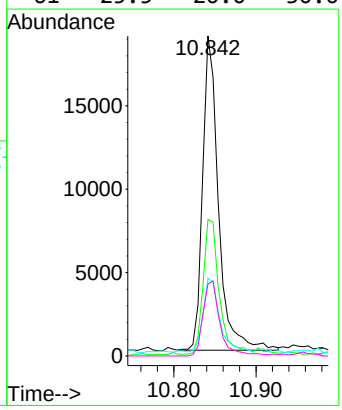


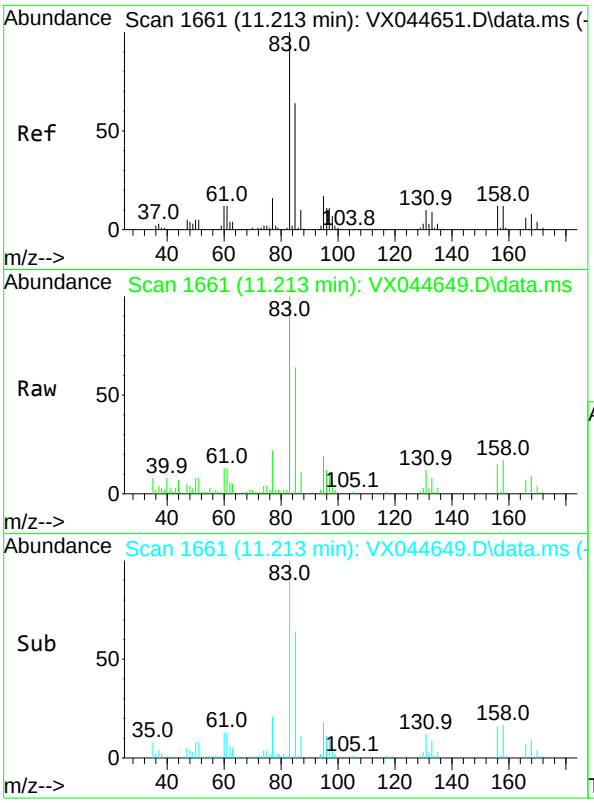




#74
N-amyl acetate
Concen: 5.084 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 43 Resp: 25282

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.3 | 35.2 | 52.8 |
| 55 | 25.0 | 19.0 | 28.4 |
| 61 | 25.5 | 20.0 | 30.0 |



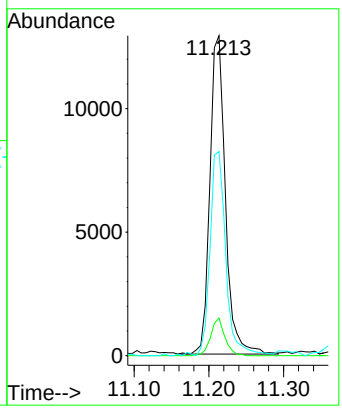


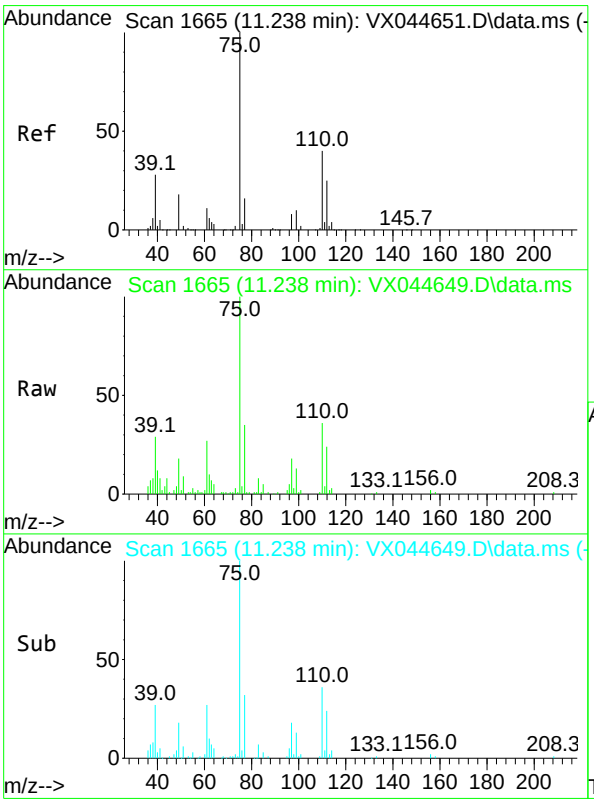

#75
1,1,2,2-Tetrachloroethane
Concen: 5.351 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 83 Resp: 18645

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.8 | 5.0 | 14.9 |
| 85 | 65.7 | 32.0 | 96.2 |

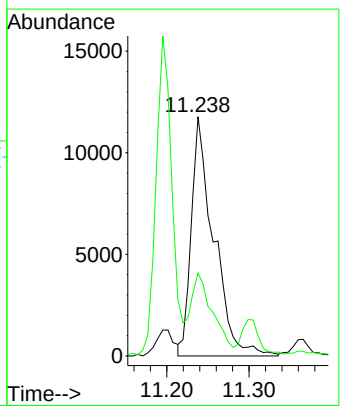


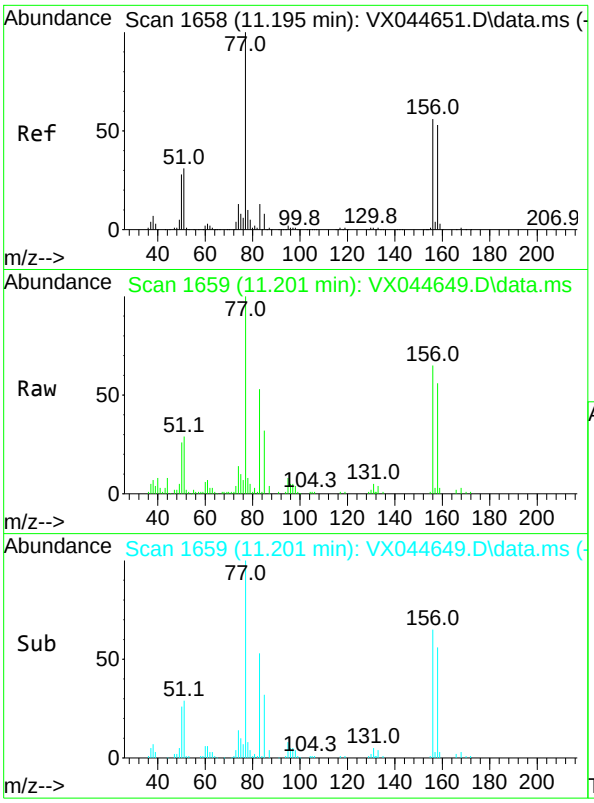




#76
1,2,3-Trichloropropane
Concen: 7.431 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 22270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.7 | 23.4 | 70.2 |



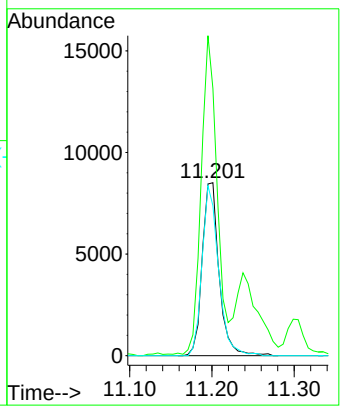


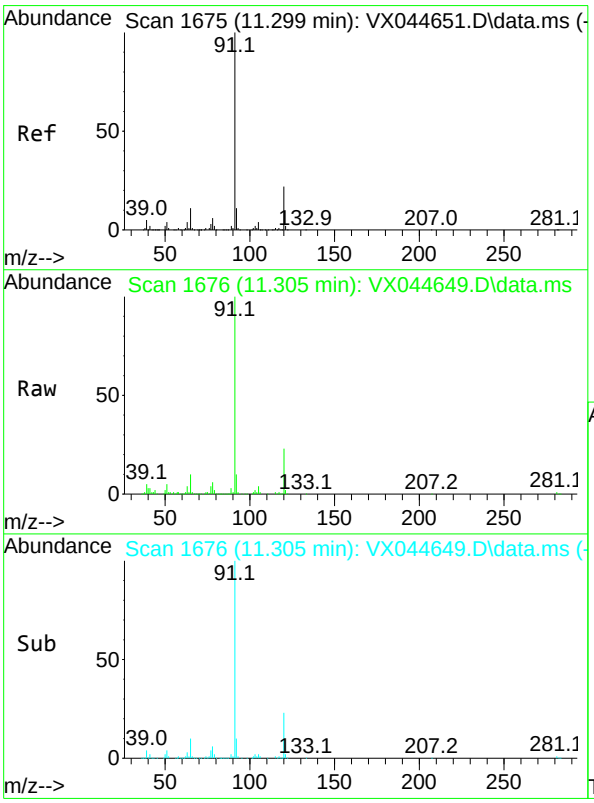

#77
Bromobenzene
Concen: 5.156 ug/l
RT: 11.201 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:156 Resp: 12158

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 172.0 | 90.3 | 271.0 |
| 158 | 96.4 | 48.4 | 145.3 |

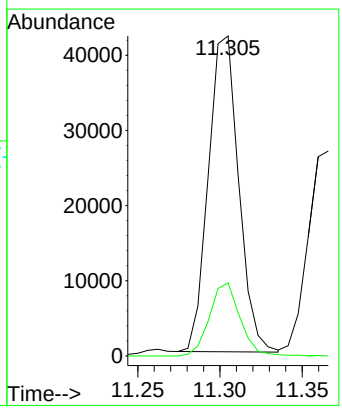


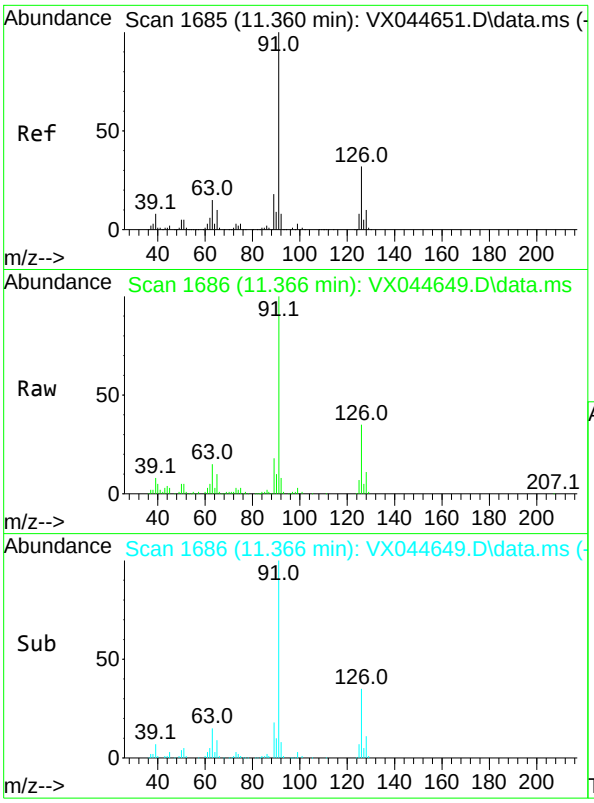




#78
n-propylbenzene
Concen: 4.846 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 91 Resp: 53913

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 23.3 | 11.4 | 34.1 |



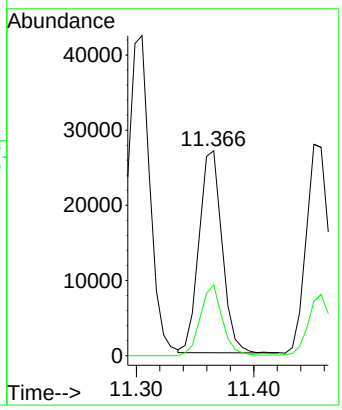


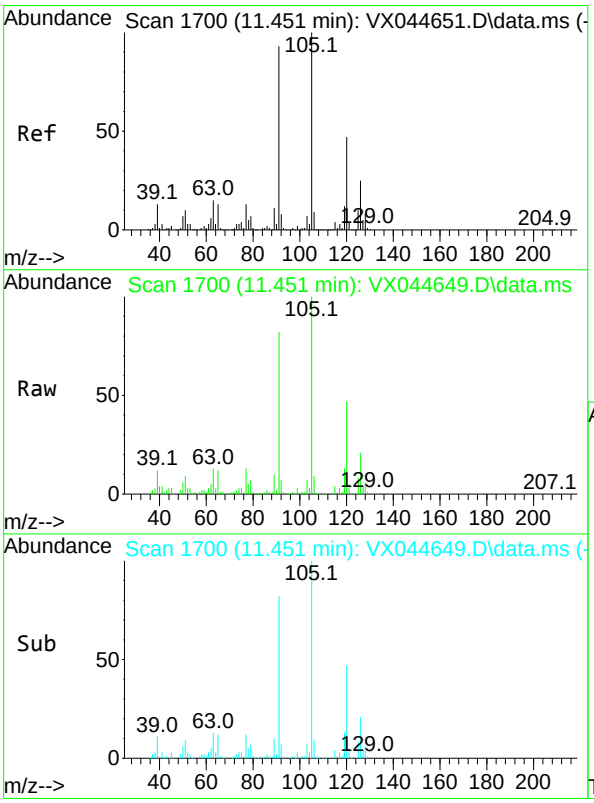

#79
2-Chlorotoluene
Concen: 5.093 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 36602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.5 | 16.2 | 48.5 |

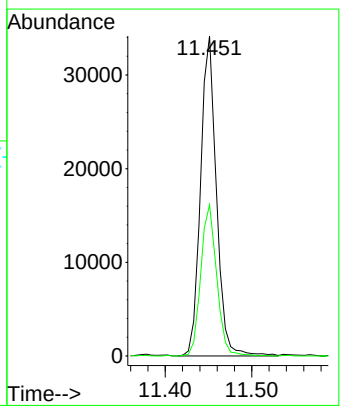


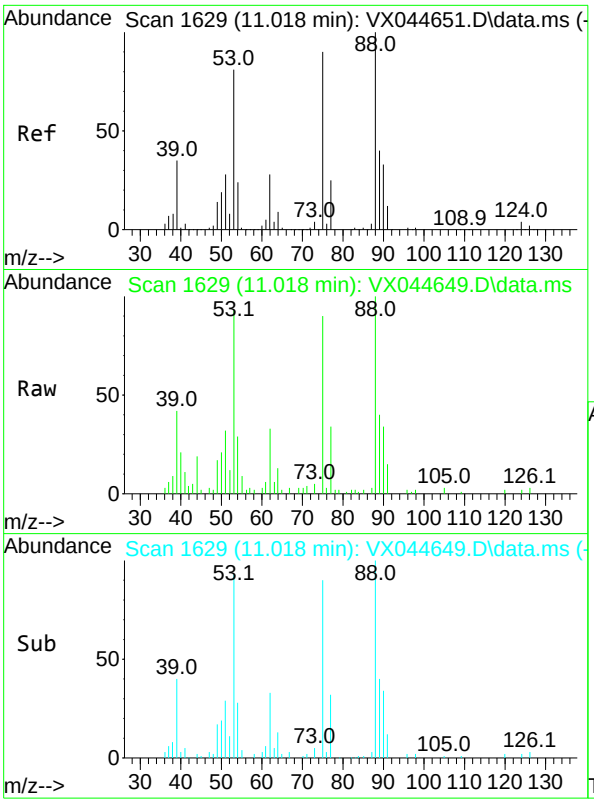




#80
1,3,5-Trimethylbenzene
Concen: 5.295 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:105 Resp: 43488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.3 | 23.7 | 71.1 |



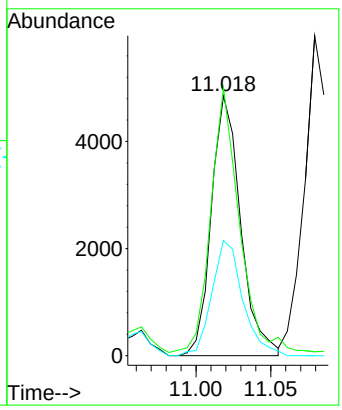


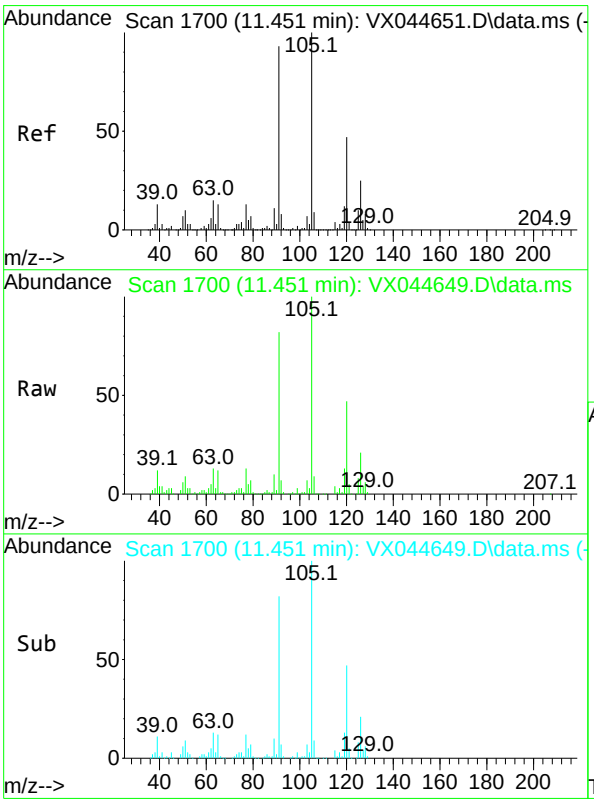

#81
trans-1,4-Dichloro-2-butene
Concen: 5.042 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 75 Resp: 6607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 100.4 | 74.3 | 111.5 |
| 89 | 46.8 | 37.4 | 56.0 |

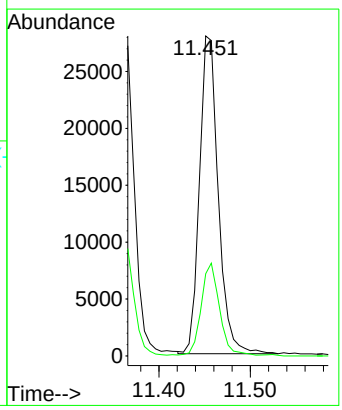


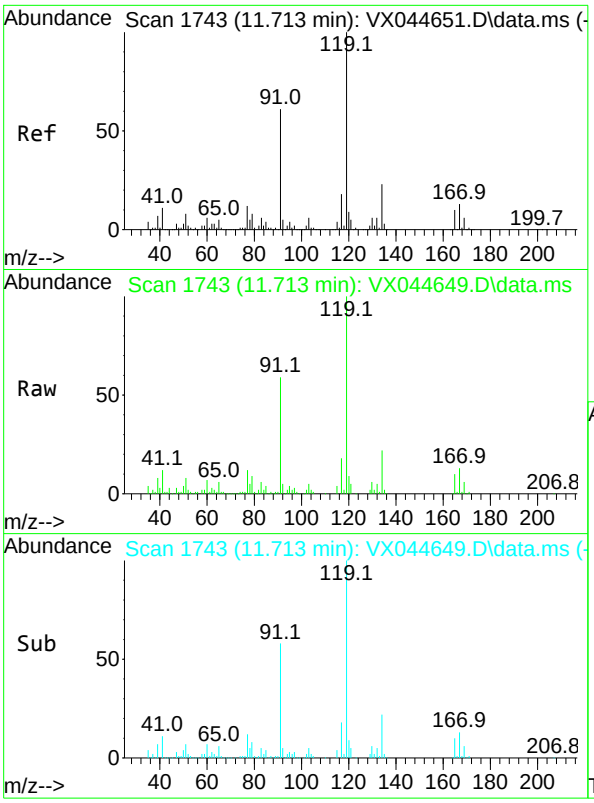




#82
4-Chlorotoluene
Concen: 5.051 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 91 Resp: 39763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.1 | 13.9 | 41.7 |



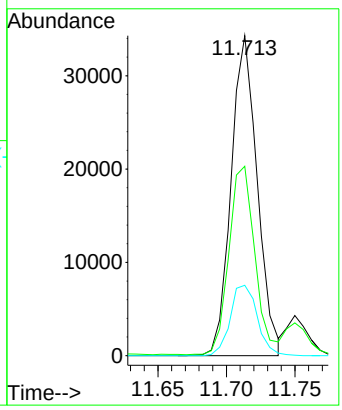


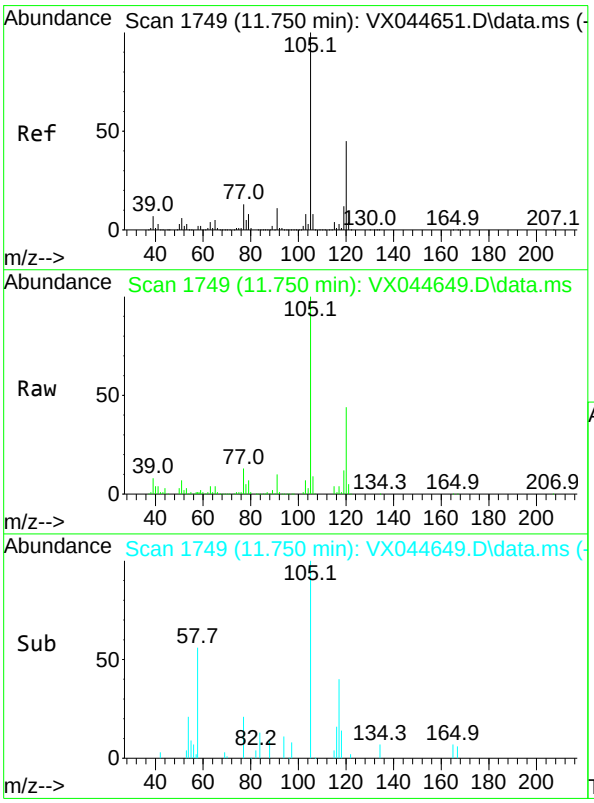

#83
tert-Butylbenzene
Concen: 5.311 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:119 Resp: 45606

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 58.6 | 30.0 | 90.0 |
| 134 | 22.8 | 11.2 | 33.5 |

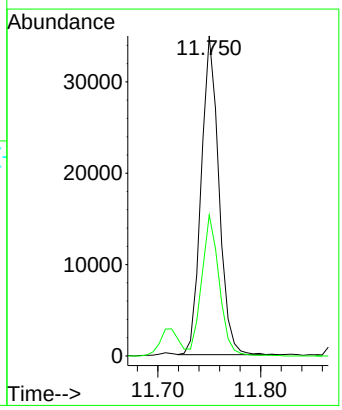


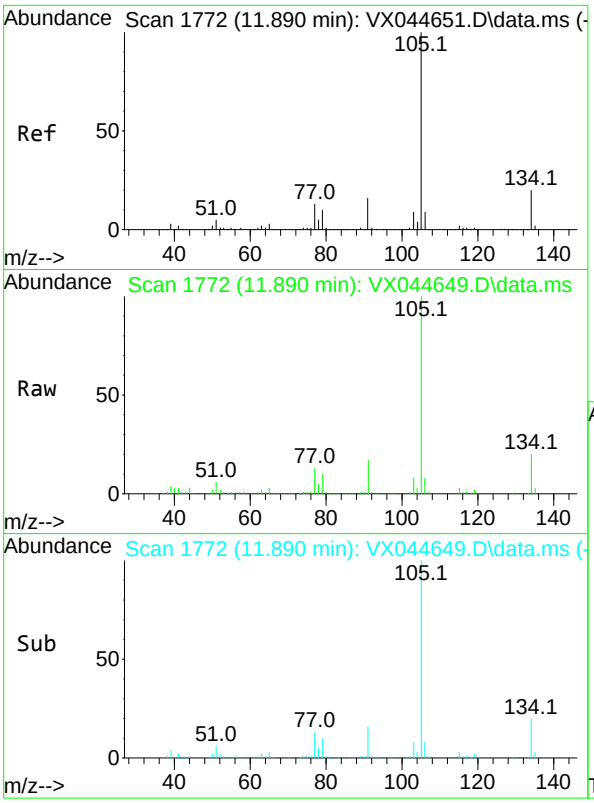




#84
1,2,4-Trimethylbenzene
Concen: 5.001 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:105 Resp: 41737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 43.7 | 22.2 | 66.6 |



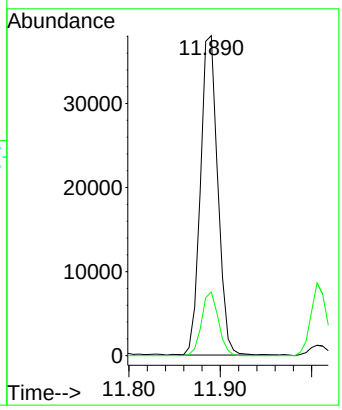


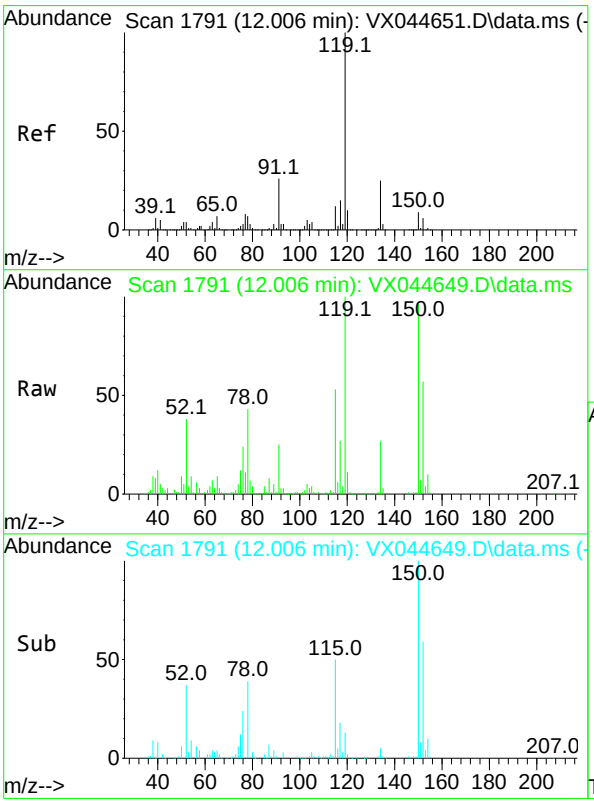

#85
sec-Butylbenzene
Concen: 4.987 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:105 Resp: 49858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.4 | 9.8 | 29.5 |

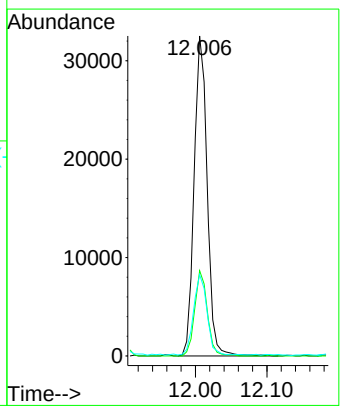


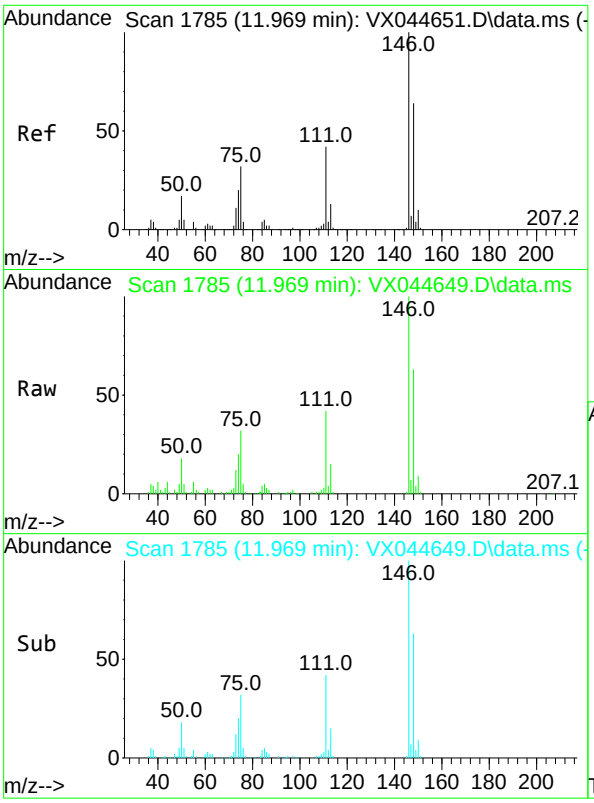




#86
p-Isopropyltoluene
Concen: 5.016 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:119 Resp: 41214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.9 | 12.8 | 38.4 |
| 91 | 25.8 | 12.7 | 38.1 |



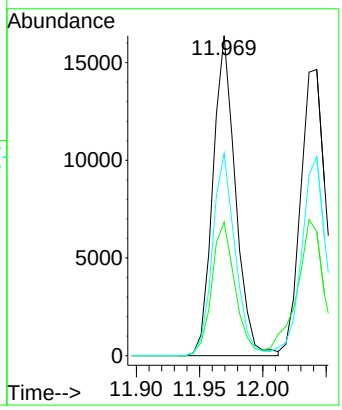


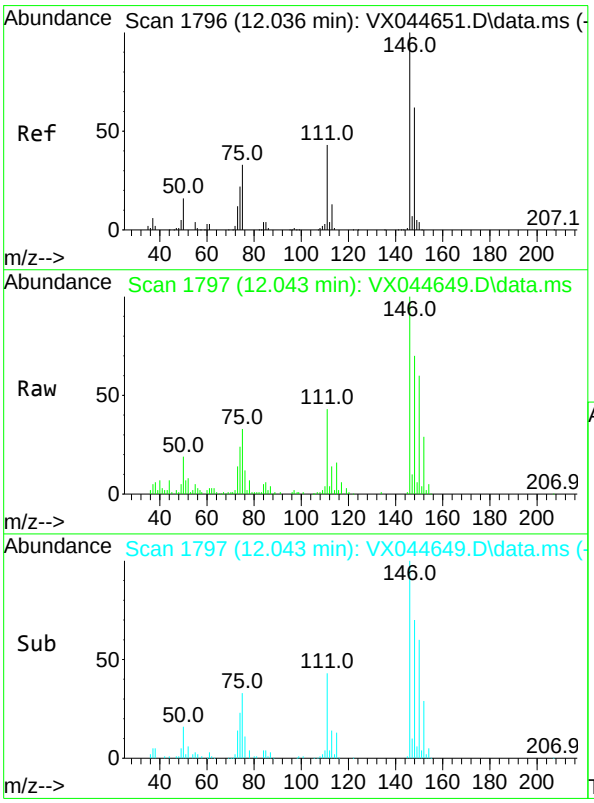

#87
1,3-Dichlorobenzene
Concen: 4.956 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:146 Resp: 20268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.3 | 21.9 | 65.7 |
| 148 | 63.7 | 31.8 | 95.4 |

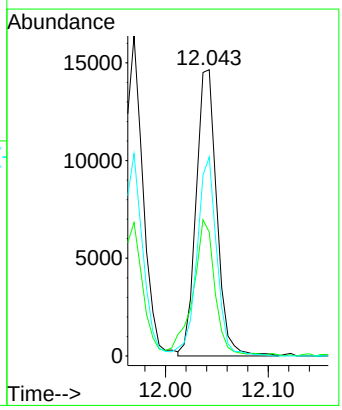


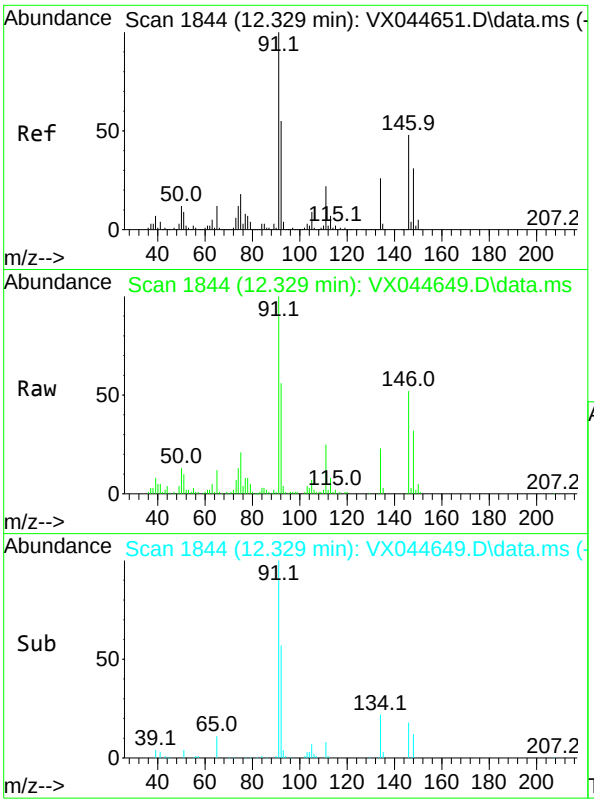




#88
1,4-Dichlorobenzene
Concen: 4.972 ug/l
RT: 12.043 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:146 Resp: 20555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 51.4 | 21.5 | 64.5 |
| 148 | 66.7 | 32.1 | 96.5 |



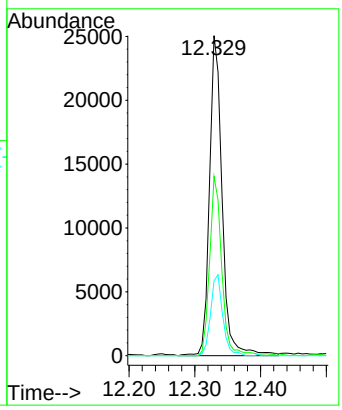


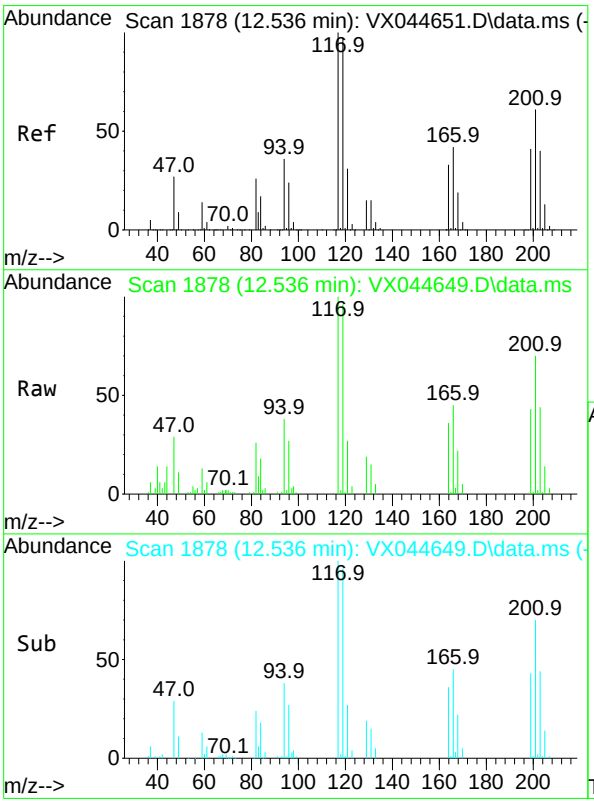

#89
n-Butylbenzene
Concen: 4.747 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion: 91 Resp: 33505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 53.5 | 27.4 | 82.0 |
| 134 | 24.2 | 12.8 | 38.3 |

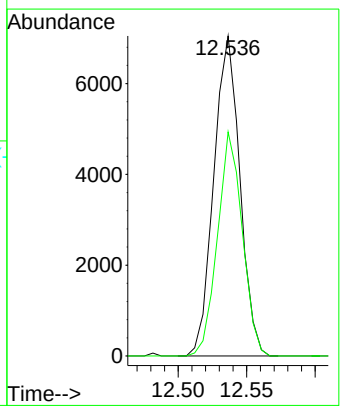


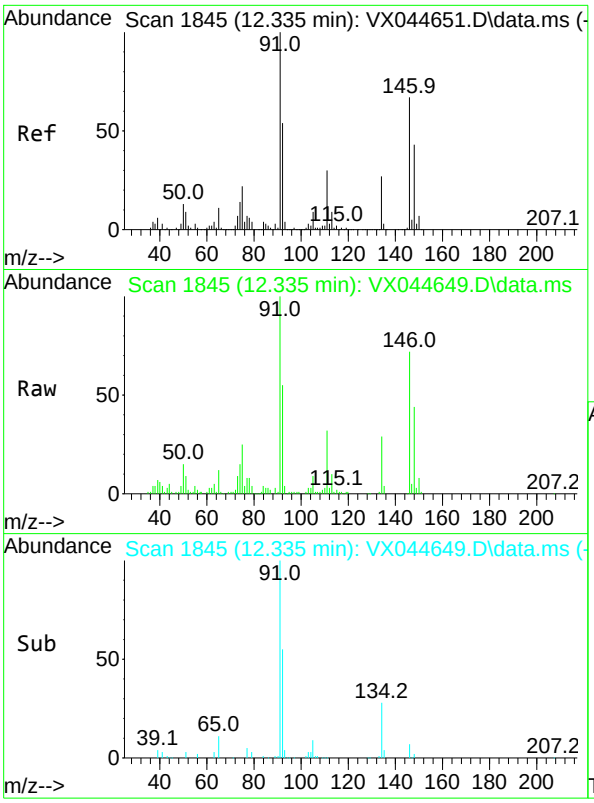




#90
Hexachloroethane
Concen: 5.012 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:117 Resp: 9325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 66.5 | 32.3 | 96.8 |



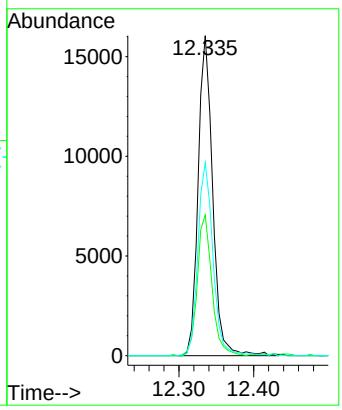


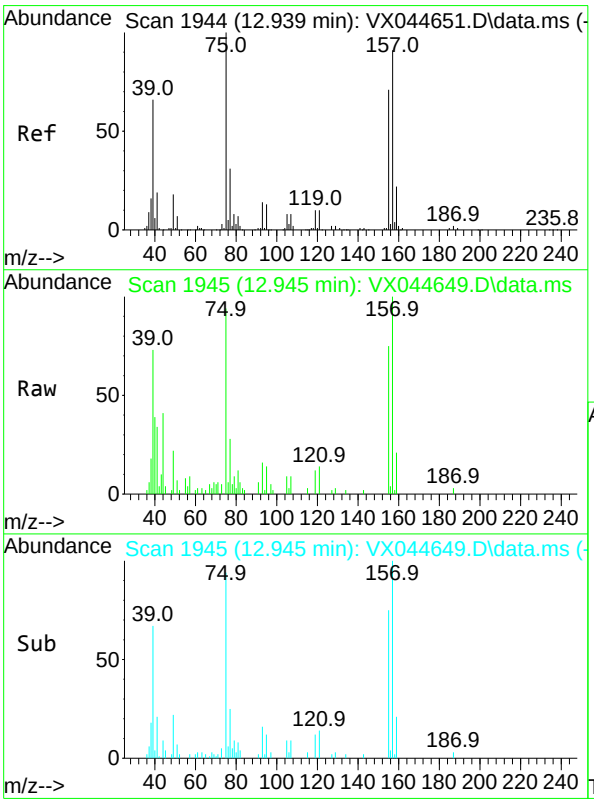

#91
1,2-Dichlorobenzene
Concen: 5.165 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:146 Resp: 21690

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.3 | 22.4 | 67.2 |
| 148 | 62.5 | 31.6 | 94.8 |

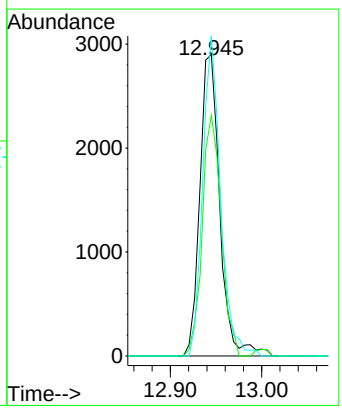


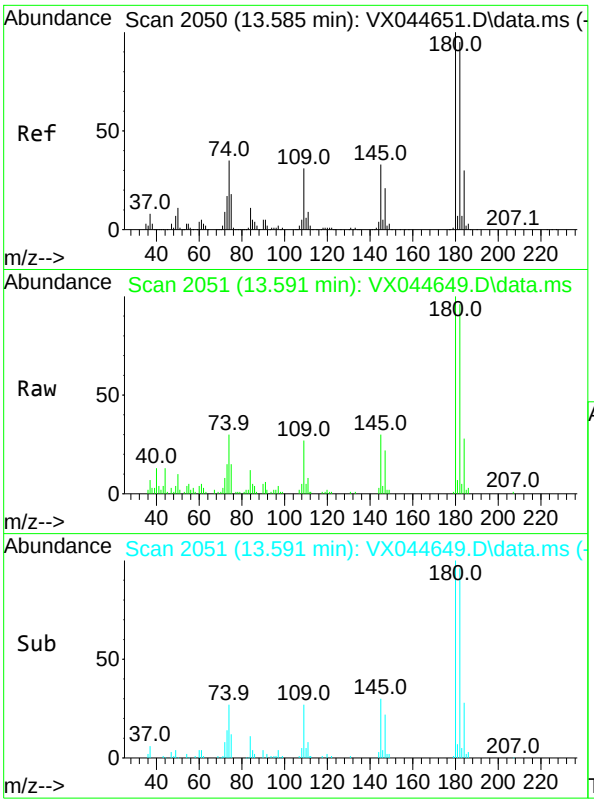




#92
1,2-Dibromo-3-Chloropropane
Concen: 5.145 ug/l
RT: 12.945 min Scan# 1945
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion: 75 Resp: 4384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 76.0 | 39.0 | 116.9 |
| 157 | 94.7 | 49.9 | 149.7 |



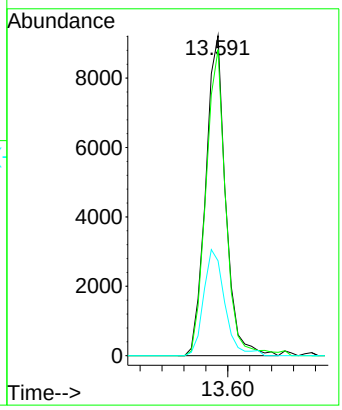


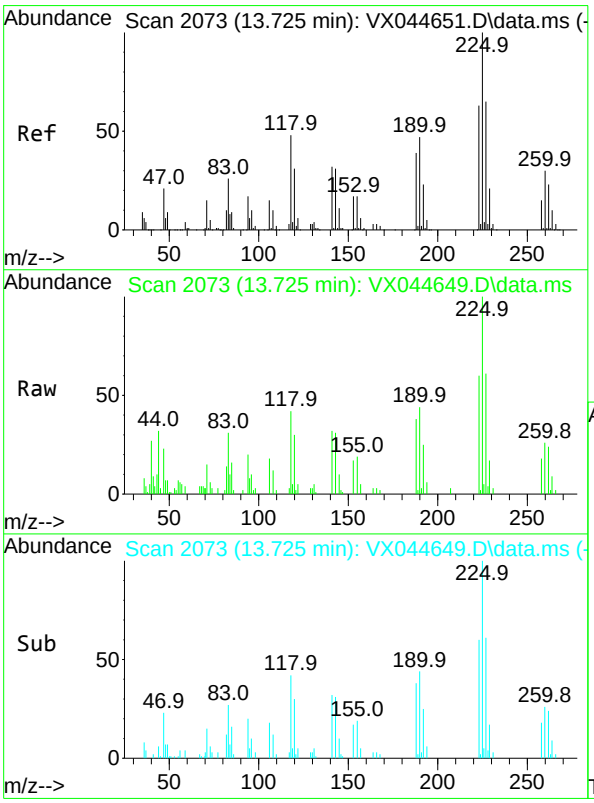

#93
1,2,4-Trichlorobenzene
Concen: 4.640 ug/l
RT: 13.591 min Scan# 2
Delta R.T. 0.006 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:180 Resp: 11649

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 47.4 | 142.2 |
| 145 | 35.1 | 16.7 | 50.1 |

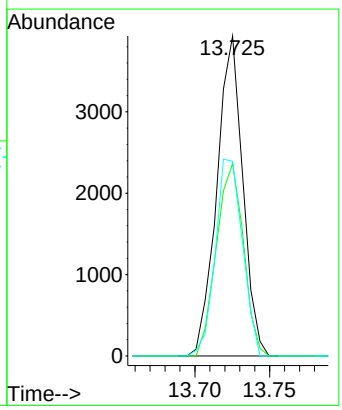


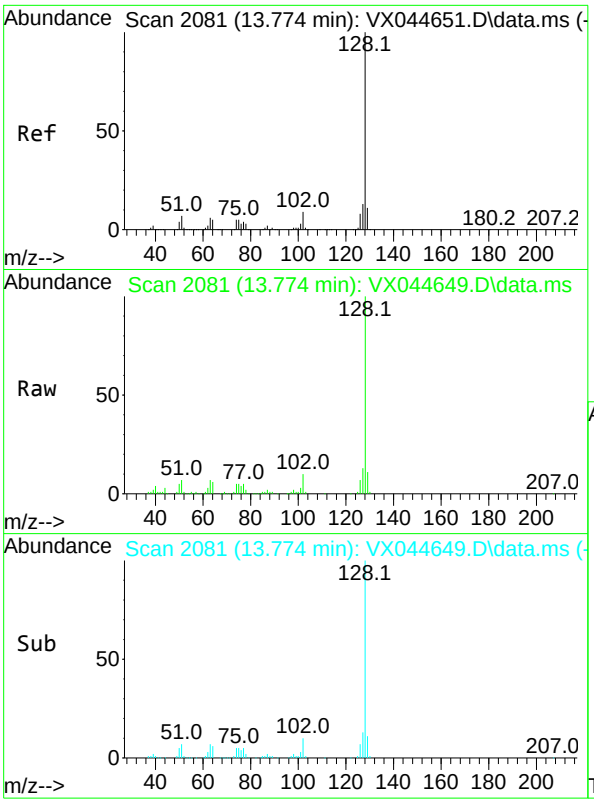




#94
Hexachlorobutadiene
Concen: 4.804 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:225 Resp: 4738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.7 | 31.9 | 95.7 |
| 227 | 64.2 | 31.8 | 95.4 |



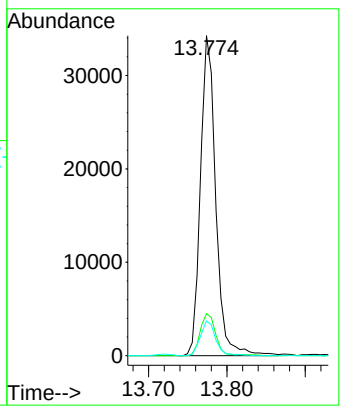


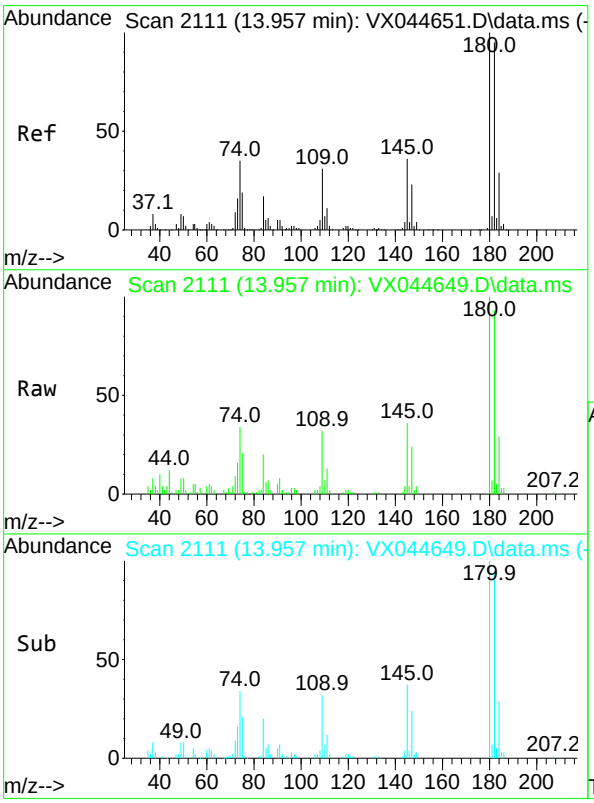

#95
Naphthalene
Concen: 4.794 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC005

Tgt Ion:128 Resp: 46418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 13.5 | 10.3 | 15.5 |
| 129 | 10.9 | 8.7 | 13.1 |

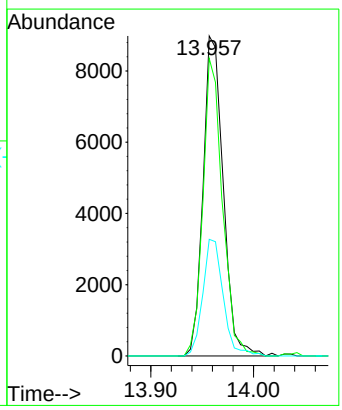



#96
1,2,3-Trichlorobenzene
Concen: 4.710 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044649.D
Acq: 15 Jan 2025 11:17

Tgt Ion:180 Resp: 12258

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 90.2 | 47.2 | 141.6 |
| 145 | 36.9 | 17.5 | 52.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044650.D
Acq On : 15 Jan 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Quant Time: Jan 30 04:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 189658 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 351528 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 305422 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 130861 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 52421 | 18.311 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 36.620%# | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 40585 | 18.173 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 36.340%# | | |
| 50) Toluene-d8 | 8.647 | 98 | 147843 | 18.987 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 37.980%# | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 55407 | 19.087 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 38.180%# | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.167 | 85 | 48623 | 19.052 | ug/l | 97 |
| 3) Chloromethane | 1.295 | 50 | 54827 | 19.866 | ug/l | 97 |
| 4) Vinyl Chloride | 1.374 | 62 | 51689 | 18.955 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 12588 | 19.333 | ug/l | 98 |
| 6) Chloroethane | 1.660 | 64 | 8576 | 17.150 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.868 | 101 | 57313 | 19.017 | ug/l | 100 |
| 8) Diethyl Ether | 2.136 | 74 | 23029 | 18.934 | ug/l | 98 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 42608 | 18.807 | ug/l | 98 |
| 10) Methyl Iodide | 2.441 | 142 | 63102 | 20.401 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.977 | 59 | 37704 | 59.079 | ug/l # | 80 |
| 12) 1,1-Dichloroethene | 2.307 | 96 | 43408 | 19.547 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 24912 | 82.949 | ug/l | 93 |
| 14) Allyl chloride | 2.654 | 41 | 81766 | 18.911 | ug/l | 100 |
| 15) Acrylonitrile | 3.063 | 53 | 123315 | 98.515 | ug/l | 98 |
| 16) Acetone | 2.386 | 43 | 103836 | 91.678 | ug/l | 98 |
| 17) Carbon Disulfide | 2.502 | 76 | 119145 | 19.662 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 62684 | 17.939 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 158601 | 19.718 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 51758 | 19.623 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 44786 | 19.317 | ug/l | 95 |
| 22) Diisopropyl ether | 3.758 | 45 | 151033 | 20.095 | ug/l | 94 |
| 23) Vinyl Acetate | 3.715 | 43 | 666641 | 101.337 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 88060 | 19.758 | ug/l | 100 |
| 25) 2-Butanone | 4.556 | 43 | 168309 | 99.946 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 82977 | 19.209 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 56594 | 19.406 | ug/l | 99 |
| 28) Bromochloromethane | 4.891 | 49 | 39526 | 18.978 | ug/l | 98 |
| 29) Tetrahydrofuran | 5.001 | 42 | 106241 | 97.807 | ug/l | 100 |
| 30) Chloroform | 5.087 | 83 | 89891 | 19.985 | ug/l | 99 |
| 31) Cyclohexane | 5.458 | 56 | 72527 | 20.120 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 78644 | 19.019 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 59303 | 19.076 | ug/l | 99 |
| 37) Ethyl Acetate | 4.715 | 43 | 66324 | 20.034 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 65838 | 18.829 | ug/l | 95 |
| 39) Methylcyclohexane | 7.373 | 83 | 78248 | 18.961 | ug/l | 97 |
| 40) Benzene | 6.032 | 78 | 191801 | 19.911 | ug/l | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044650.D
Acq On : 15 Jan 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Quant Time: Jan 30 04:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 36180 | 18.755 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 69034 | 19.635 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.336 | 43 | 119568 | 19.633 | ug/l | | 99 |
| 44) Trichloroethene | 7.117 | 130 | 45597 | 19.689 | ug/l | | 94 |
| 45) 1,2-Dichloropropane | 7.428 | 63 | 47111 | 19.429 | ug/l | | 100 |
| 46) Dibromomethane | 7.580 | 93 | 35056 | 18.991 | ug/l | | 98 |
| 47) Bromodichloromethane | 7.818 | 83 | 72837 | 19.241 | ug/l | | 94 |
| 48) Methyl methacrylate | 7.690 | 41 | 57413 | 20.310 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.665 | 88 | 23433 | 397.311 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 338304 | 100.520 | ug/l | | 99 |
| 52) Toluene | 8.714 | 92 | 119410 | 20.253 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 79260 | 20.266 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.366 | 75 | 84851 | 20.008 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 47930 | 20.093 | ug/l | | 97 |
| 56) Ethyl methacrylate | 9.116 | 69 | 84067 | 20.496 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 81718 | 20.117 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 176999 | 87.899 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 250792 | 101.288 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 56038 | 20.015 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 50060 | 20.025 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.269 | 164 | 36566 | 19.066 | ug/l | | 96 |
| 65) Chlorobenzene | 10.073 | 112 | 126540 | 19.506 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 45959 | 19.493 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 223249 | 19.723 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 167689 | 39.921 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 84280 | 19.840 | ug/l | | 99 |
| 70) Styrene | 10.653 | 104 | 138465 | 20.189 | ug/l | | 99 |
| 71) Bromoform | 10.799 | 173 | 36839 | 19.198 | ug/l | # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 211633 | 19.797 | ug/l | | 99 |
| 74) N-amyl acetate | 10.842 | 43 | 103040 | 19.555 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 73190 | 19.823 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 80837 | 25.454 | ug/l | | 83 |
| 77) Bromobenzene | 11.195 | 156 | 48555 | 19.432 | ug/l | | 100 |
| 78) n-propylbenzene | 11.299 | 91 | 234567 | 19.896 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 149688 | 19.655 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 173348 | 19.919 | ug/l | | 98 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 27061 | 19.486 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 166586 | 19.968 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 178504 | 19.617 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 175164 | 19.807 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 208186 | 19.649 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 171507 | 19.697 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 84759 | 19.560 | ug/l | | 100 |
| 88) 1,4-Dichlorobenzene | 12.037 | 146 | 84055 | 19.188 | ug/l | | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 145015 | 19.391 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 36858 | 18.693 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 87147 | 19.582 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 16770 | 18.572 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 49471 | 18.595 | ug/l | | 98 |
| 94) Hexachlorobutadiene | 13.719 | 225 | 19513 | 18.672 | ug/l | | 99 |
| 95) Naphthalene | 13.774 | 128 | 198769 | 19.372 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 52651 | 19.093 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044650.D
Acq On : 15 Jan 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Quant Time: Jan 30 04:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

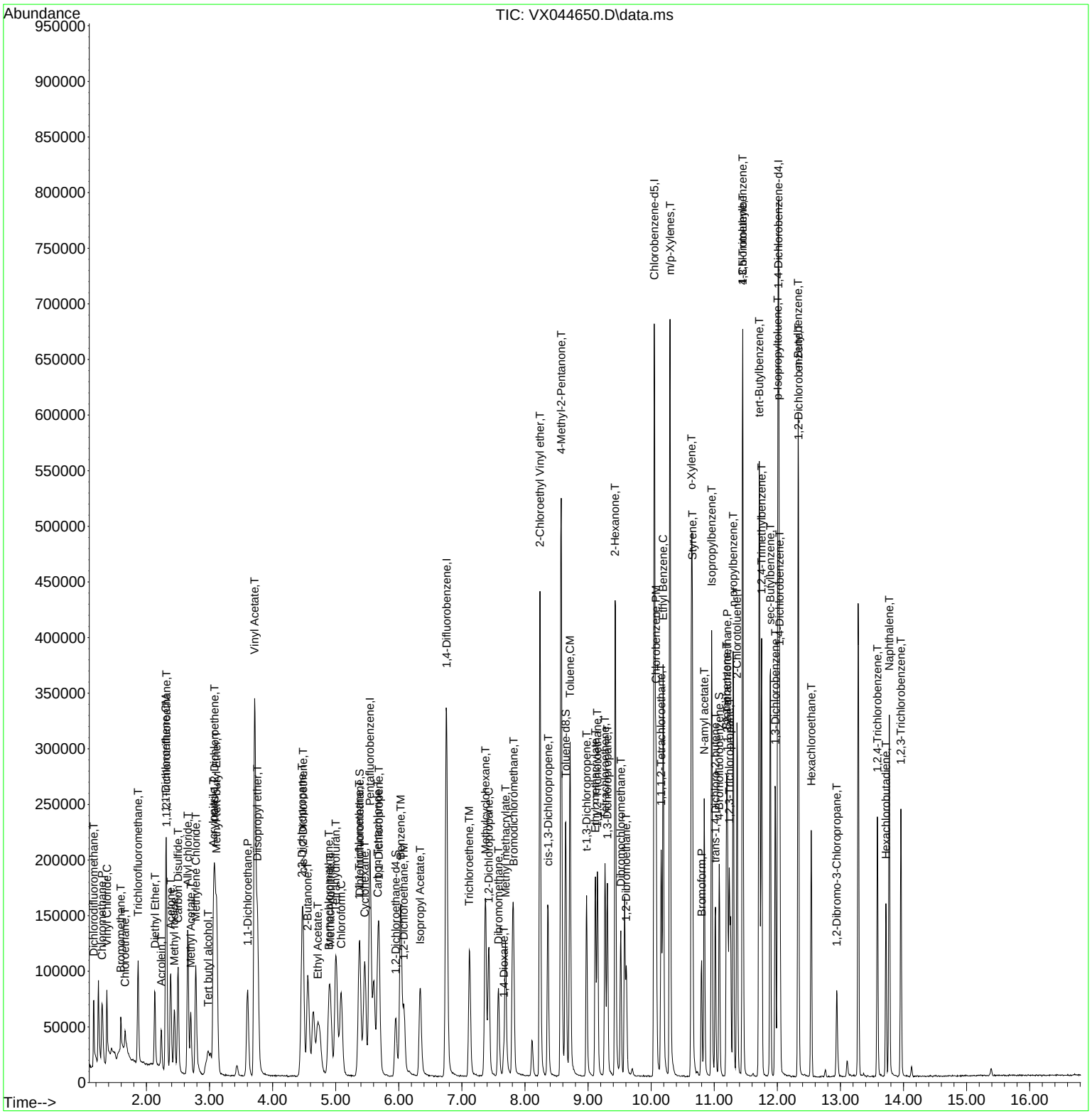
(#) = qualifier out of range (m) = manual integration (+) = signals summed

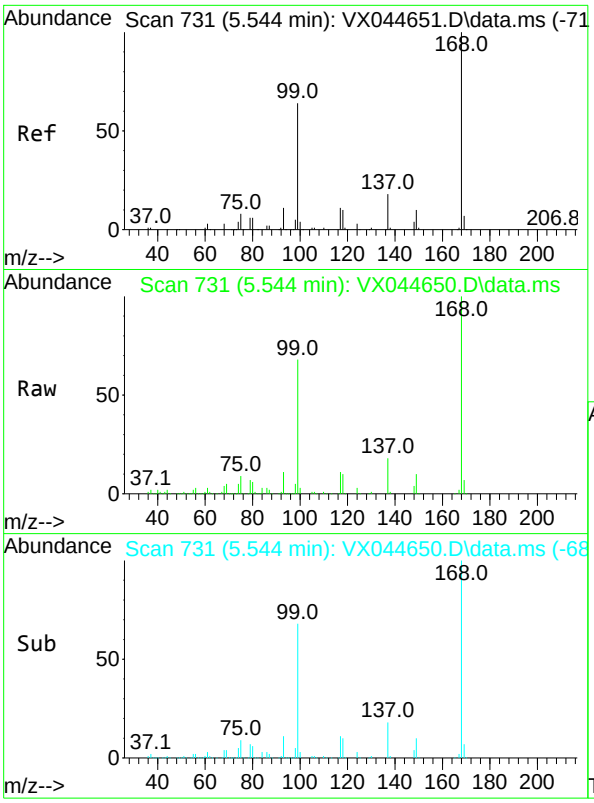
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044650.D
Acq On : 15 Jan 2025 11:40
Operator : JC/MD
Sample : VSTDICC020
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Quant Time: Jan 30 04:55:49 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



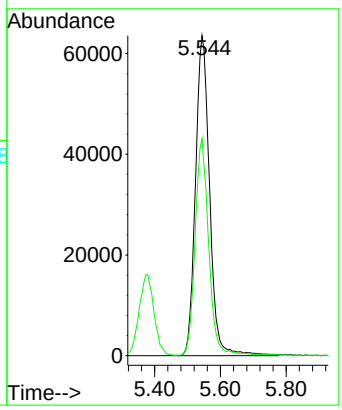


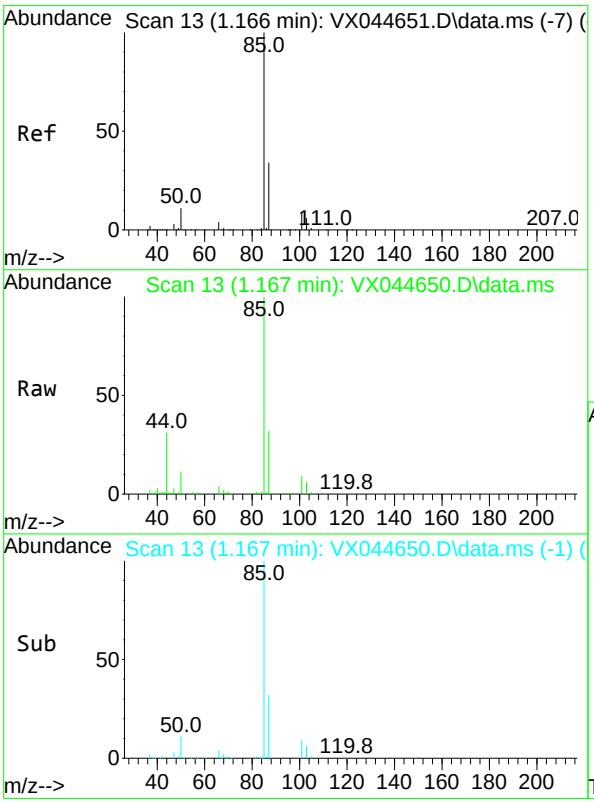

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:168 Resp: 189658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 67.7 | 51.1 | 76.7 |

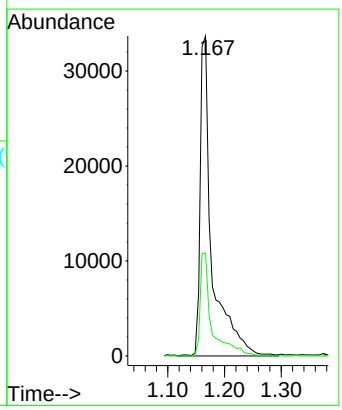


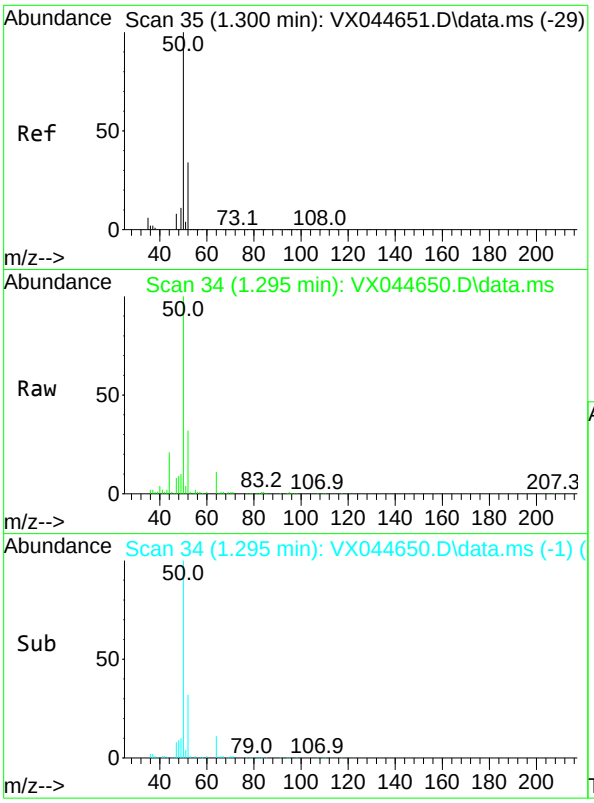




#2
Dichlorodifluoromethane
Concen: 19.052 ug/l
RT: 1.167 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 85 Resp: 48623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.1 | 16.8 | 50.4 |



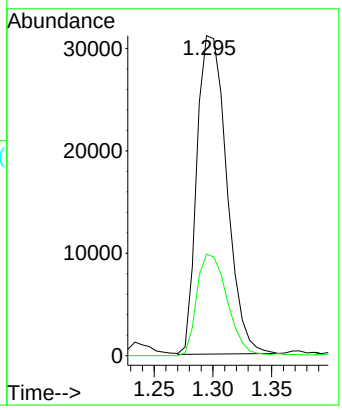


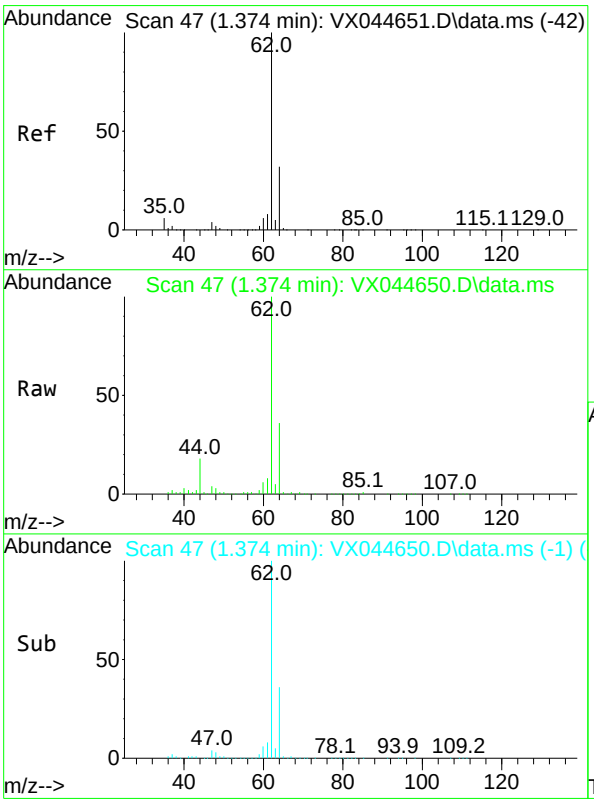

#3
Chloromethane
Concen: 19.866 ug/l
RT: 1.295 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 50 Resp: 54827

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 31.9 | 27.0 | 40.4 |

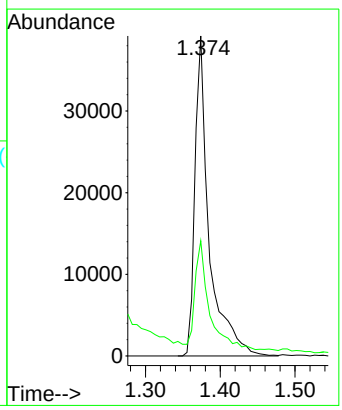


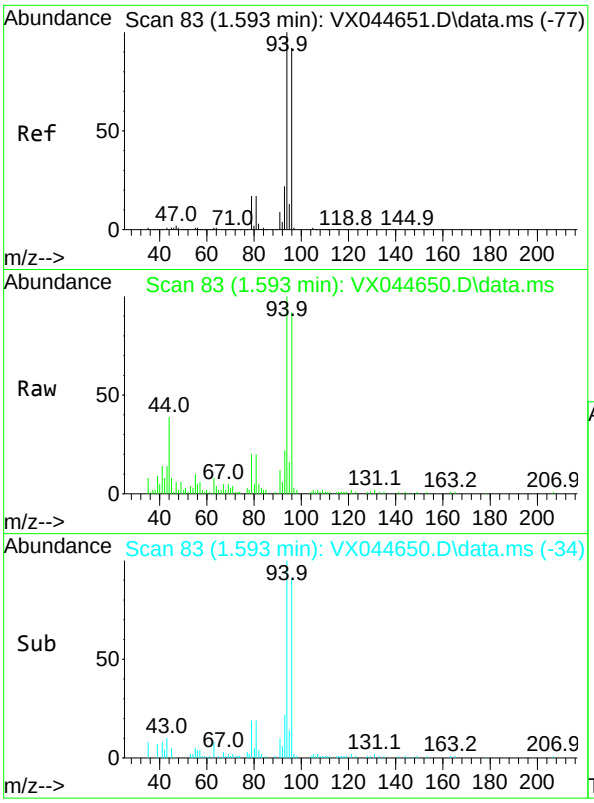




#4
Vinyl Chloride
Concen: 18.955 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 62 Resp: 51689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 34.3 | 26.6 | 39.8 |



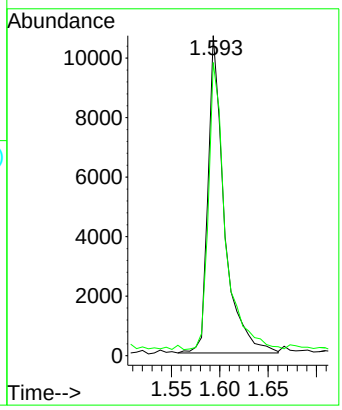


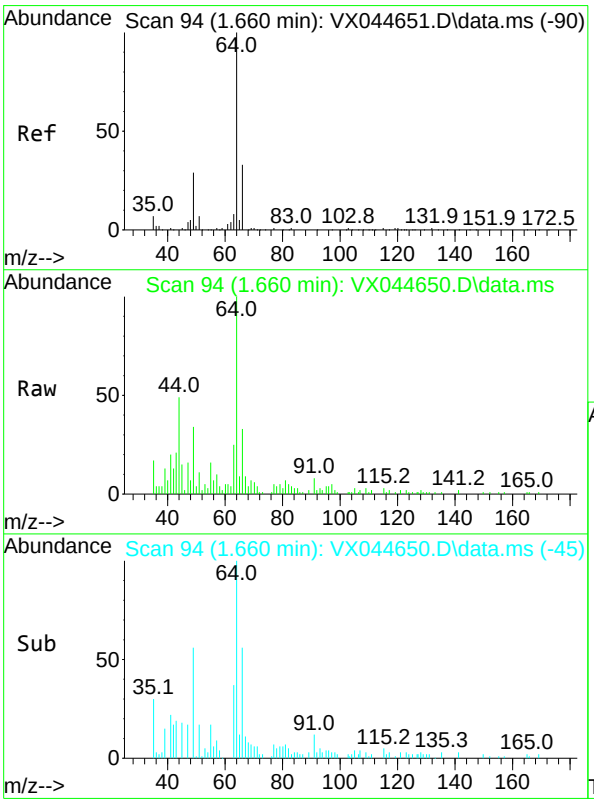

#5
Bromomethane
Concen: 19.333 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 94 Resp: 12588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.5 | 72.8 | 109.2 |

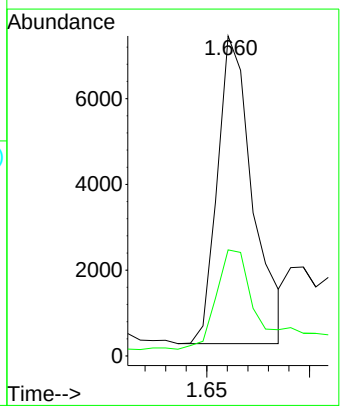


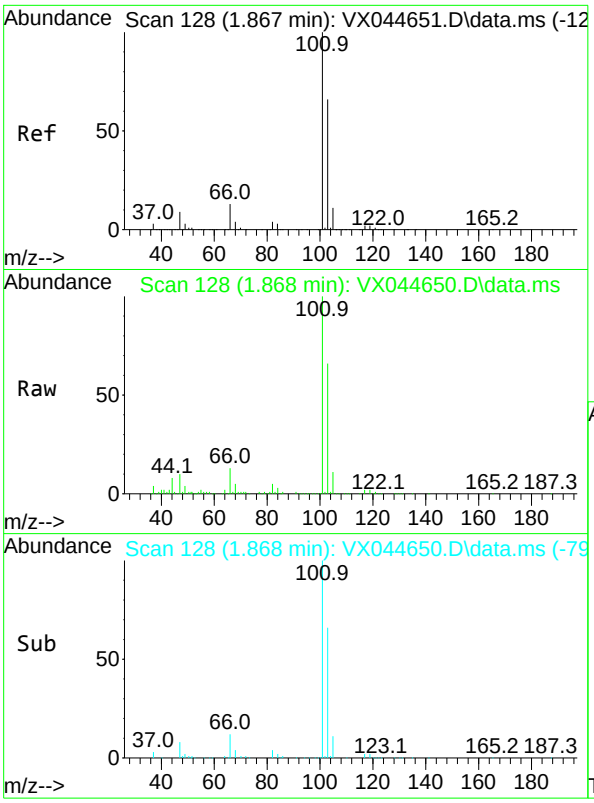




#6
Chloroethane
Concen: 17.150 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 64 Resp: 8576

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.3 | 26.6 | 39.8 |



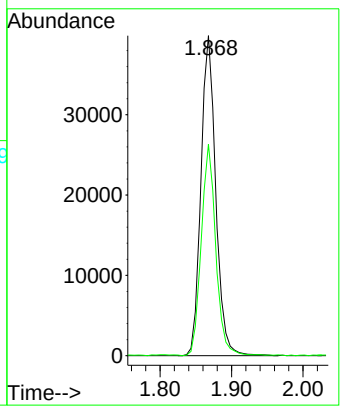


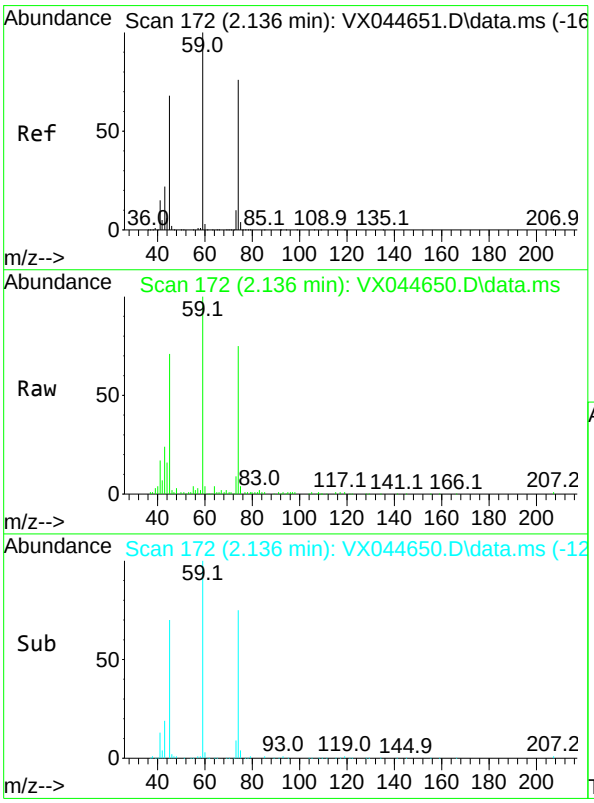

#7
Trichlorofluoromethane
Concen: 19.017 ug/l
RT: 1.868 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 57313

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.9 | 52.5 | 78.7 |

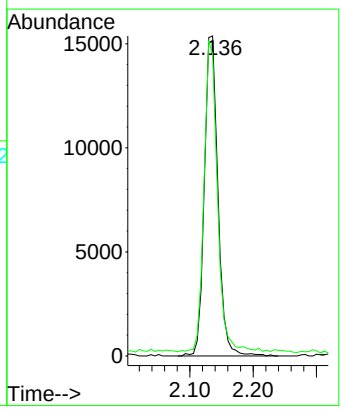


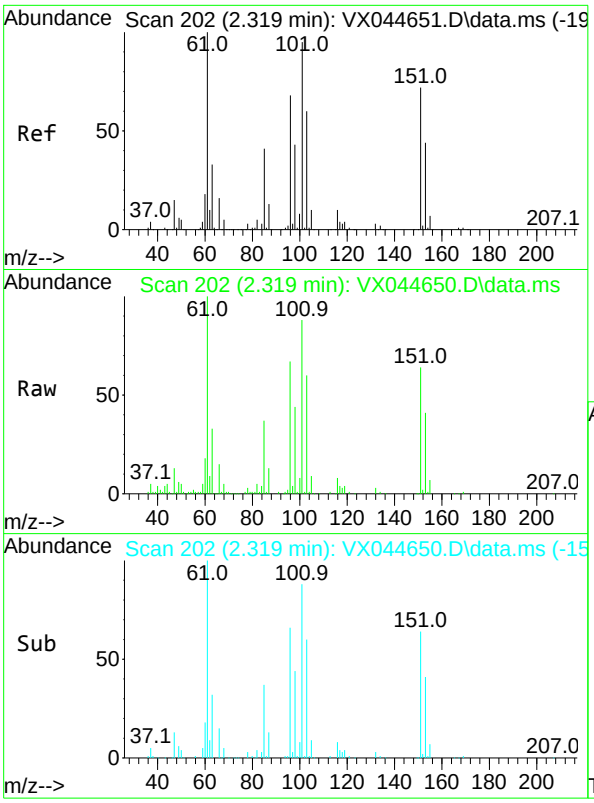




#8
Diethyl Ether
Concen: 18.934 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 74 Resp: 23029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 95.7 | 47.1 | 141.3 |



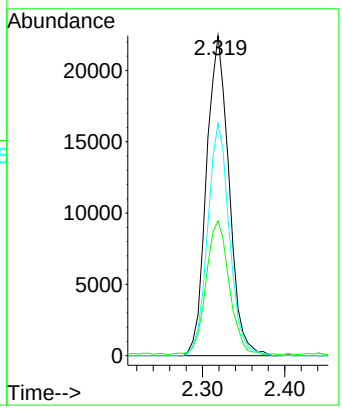


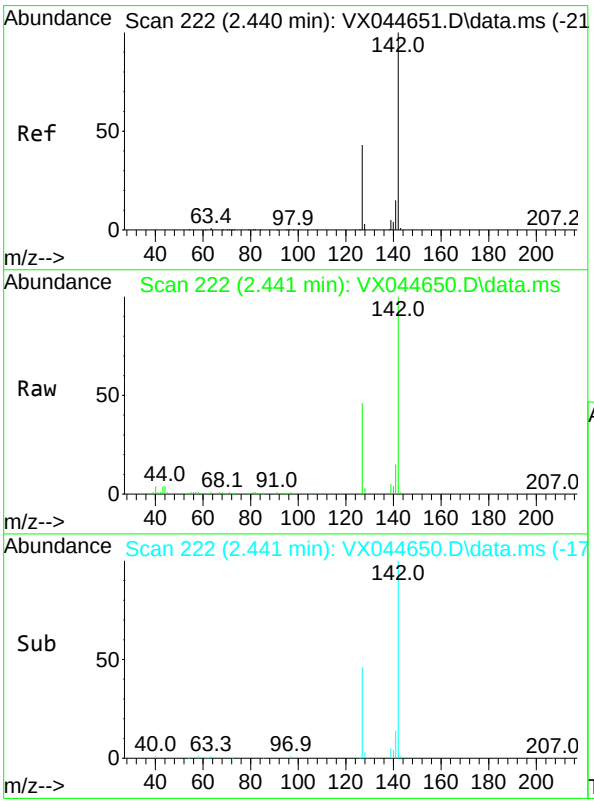

#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.807 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:101 Resp: 42608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.3 | 35.3 | 52.9 |
| 151 | 70.4 | 58.2 | 87.4 |

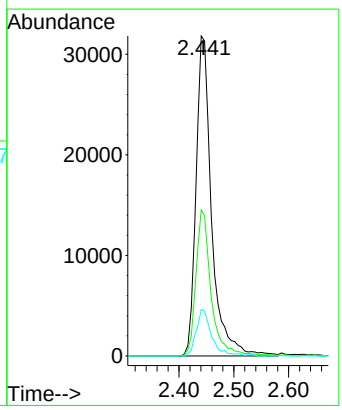


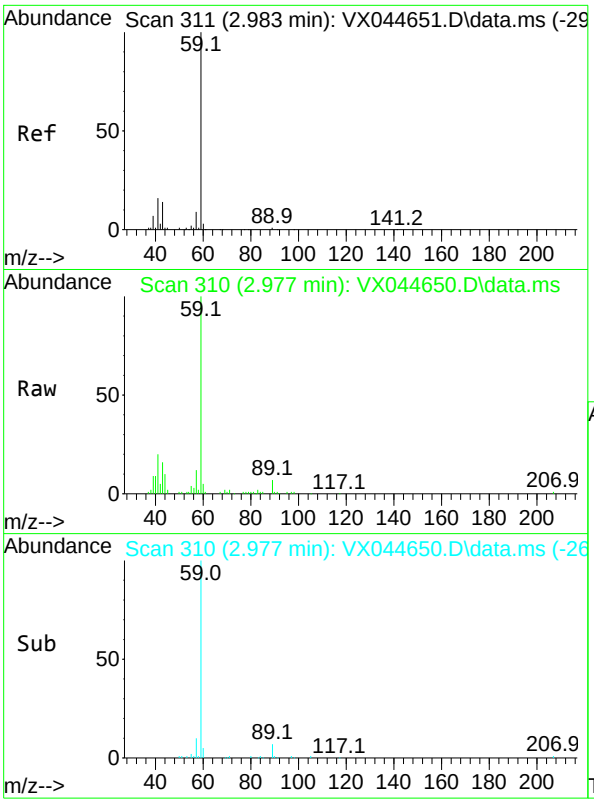




#10
Methyl Iodide
Concen: 20.401 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:142 Resp: 63102

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.6 | 35.0 | 52.4 |
| 141 | 14.2 | 11.7 | 17.5 |



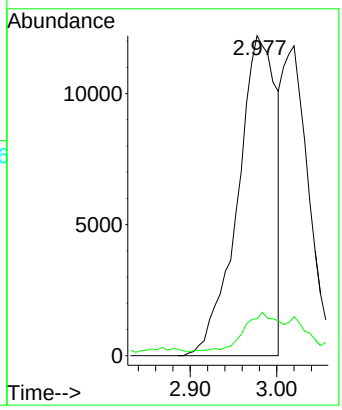


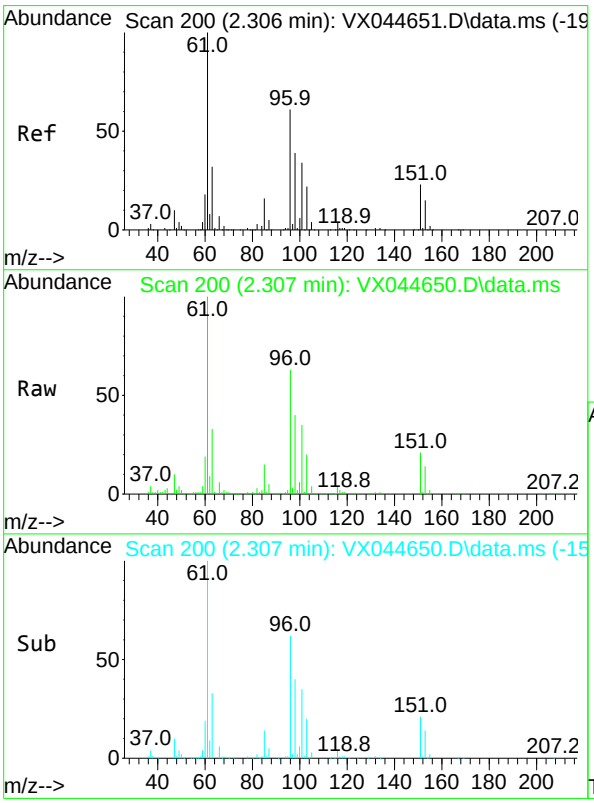

#11
Tert butyl alcohol
Concen: 59.079 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 59 Resp: 37704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 11.4 | 3.9 | 5.9# |

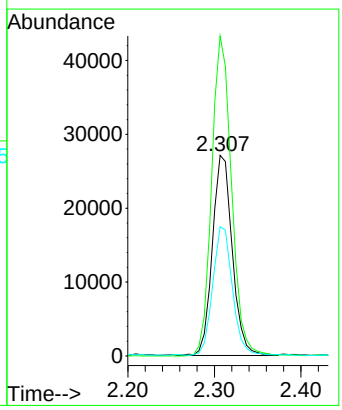


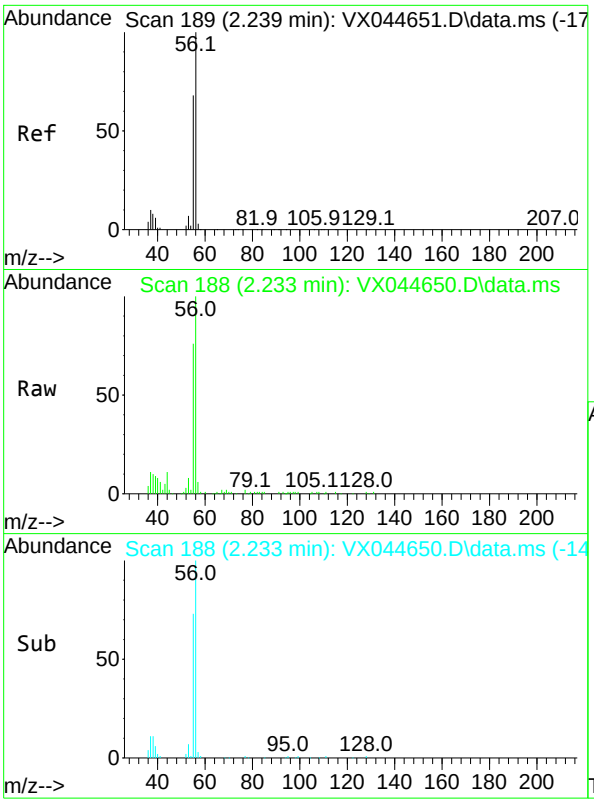




#12
1,1-Dichloroethene
Concen: 19.547 ug/l
RT: 2.307 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 96 Resp: 43408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 159.8 | 131.1 | 196.7 |
| 98 | 63.9 | 51.2 | 76.8 |



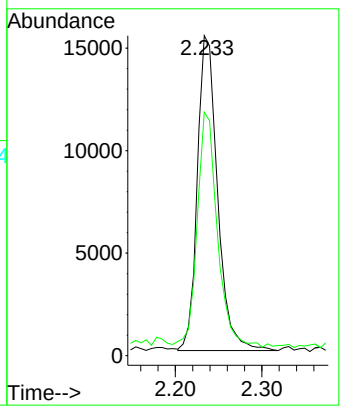


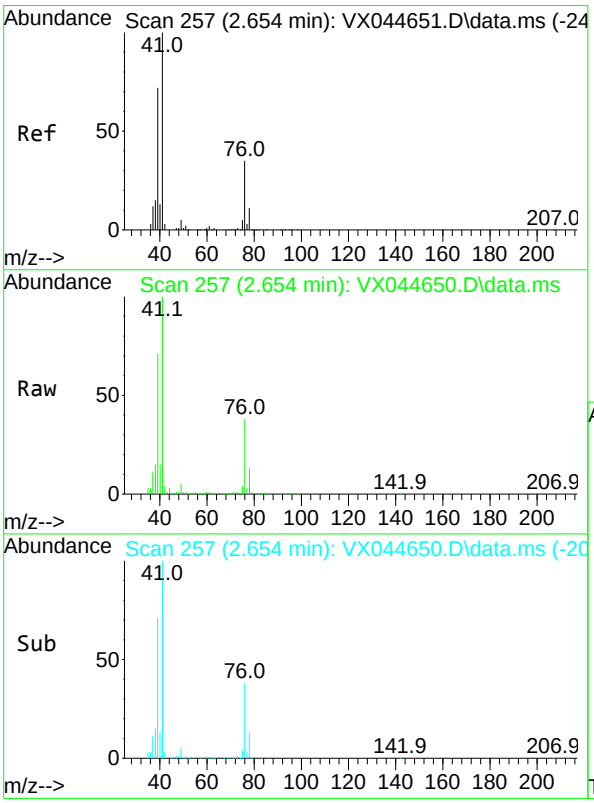

#13
Acrolein
Concen: 82.949 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 24912

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 74.5 | 55.1 | 82.7 |

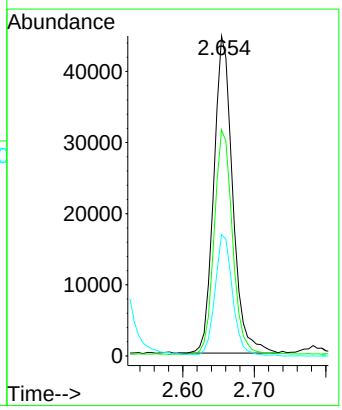


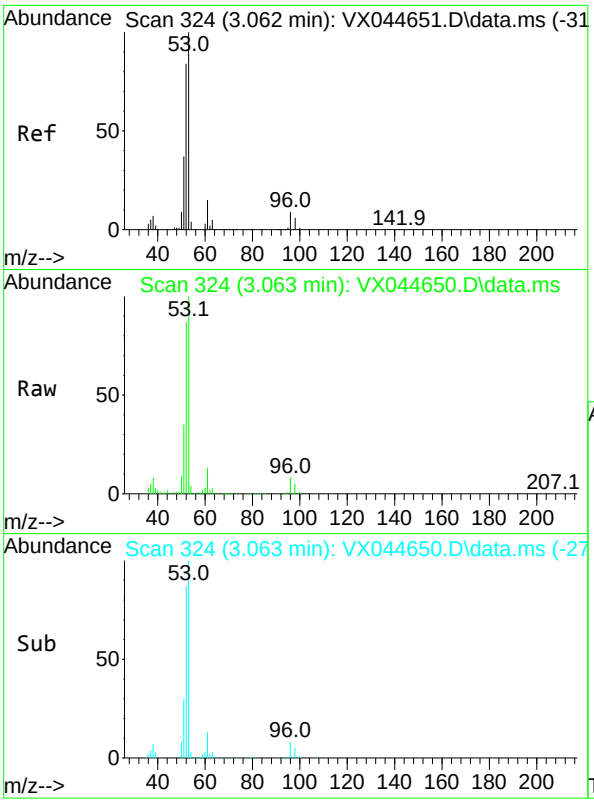




#14
Allyl chloride
Concen: 18.911 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 41 Resp: 81766

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.5 | 54.9 | 82.3 |
| 76 | 35.8 | 28.4 | 42.6 |



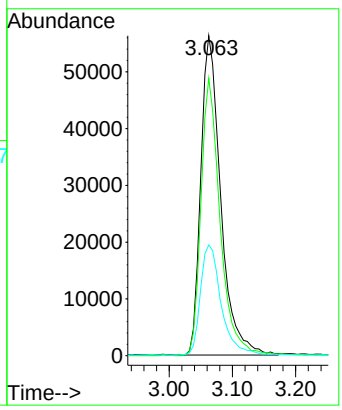


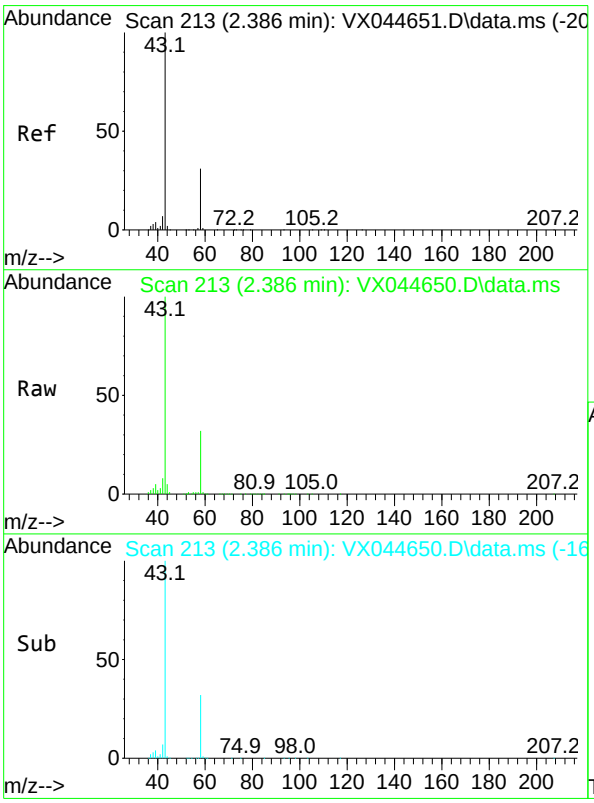

#15
Acrylonitrile
Concen: 98.515 ug/l
RT: 3.063 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 53 Resp: 123315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.1 | 66.0 | 99.0 |
| 51 | 36.7 | 28.9 | 43.3 |

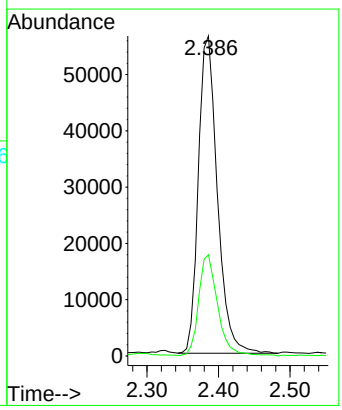


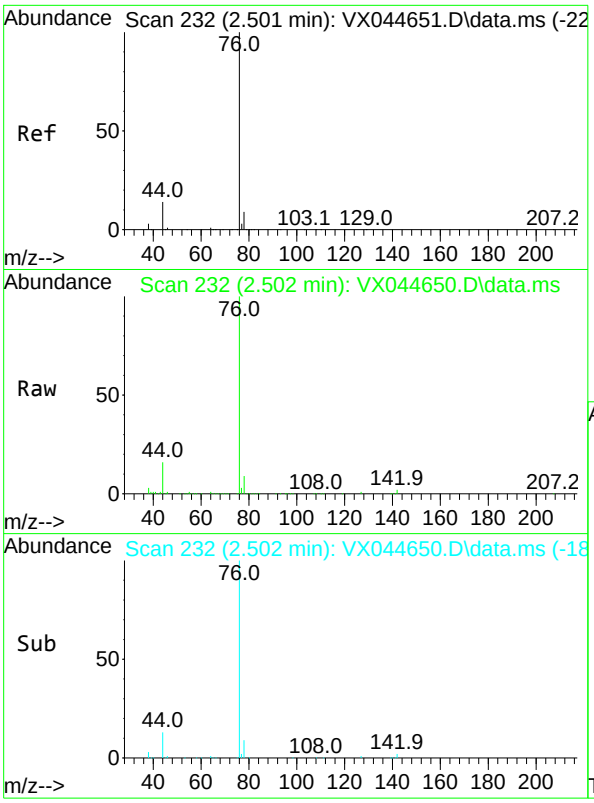




#16
Acetone
Concen: 91.678 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 103836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.9 | 24.6 | 37.0 |



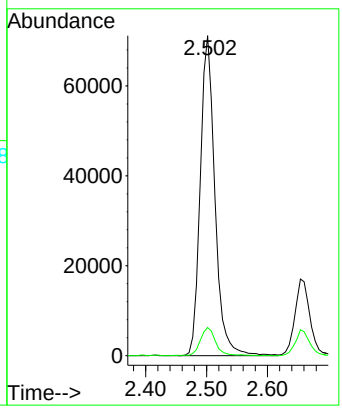


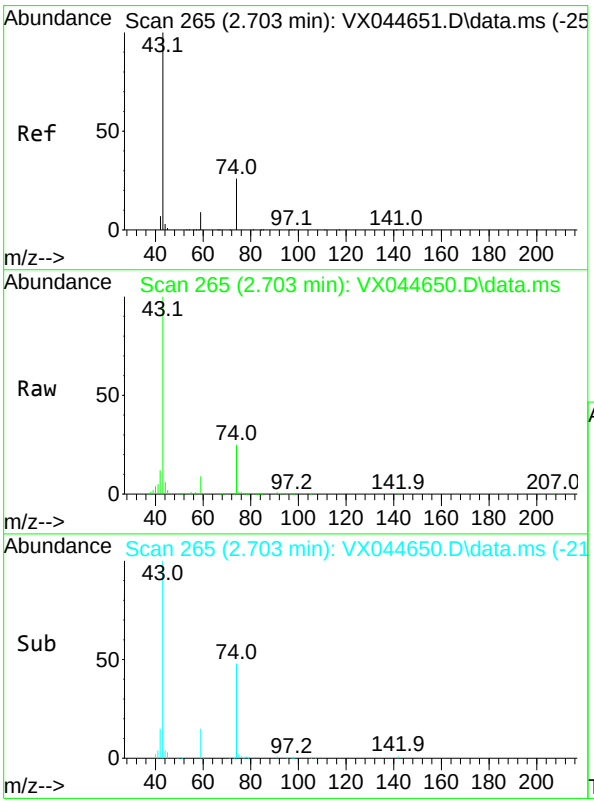

#17
Carbon Disulfide
Concen: 19.662 ug/l
RT: 2.502 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 119145

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.8 | 7.1 | 10.7 |

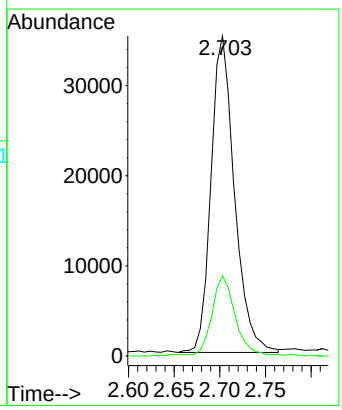


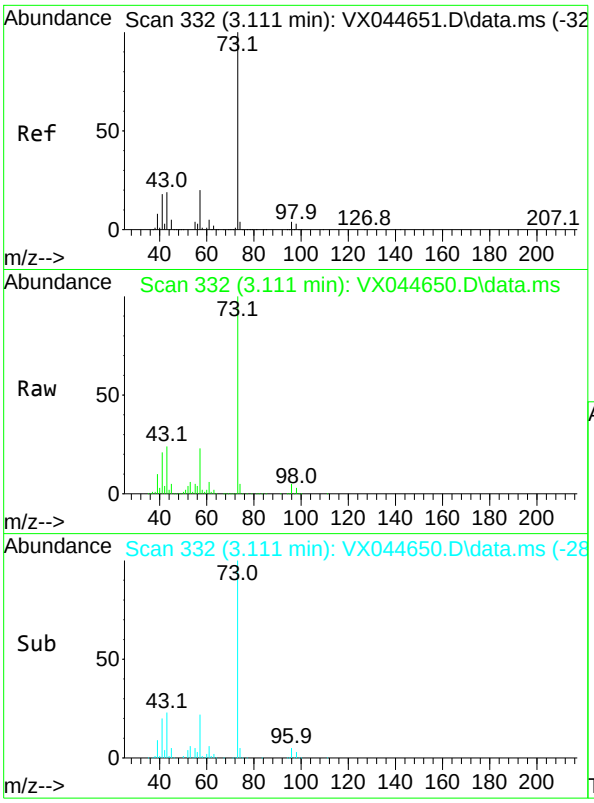




#18
Methyl Acetate
Concen: 17.939 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 62684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.3 | 19.8 | 29.8 |



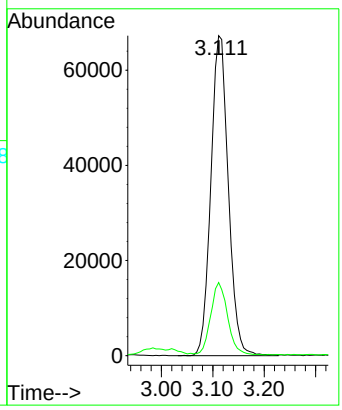


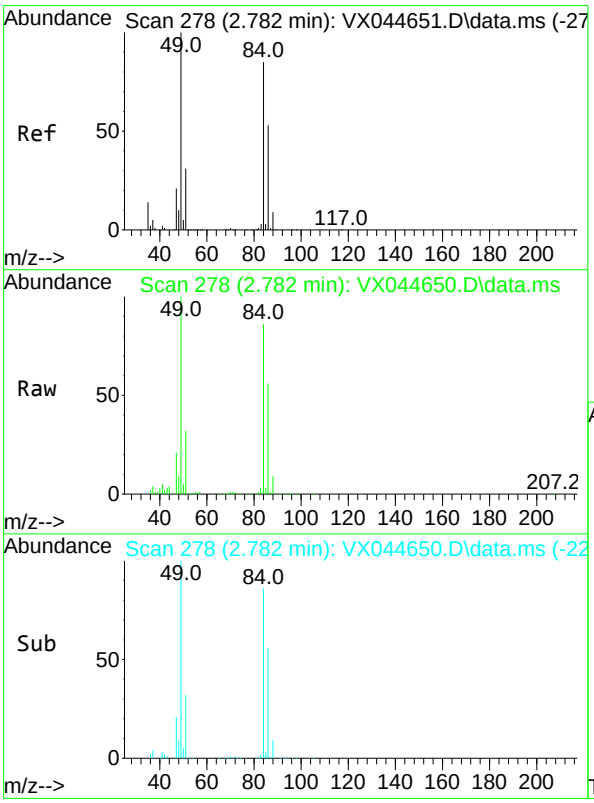

#19
Methyl tert-butyl Ether
Concen: 19.718 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 73 Resp: 158601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.5 | 17.4 | 26.0 |

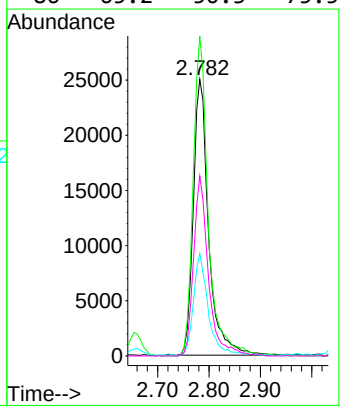


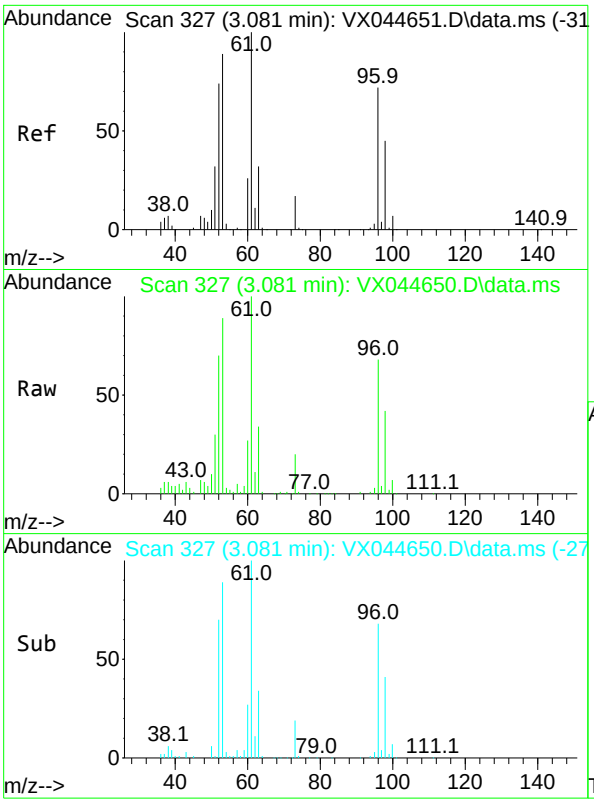




#20
Methylene Chloride
Concen: 19.623 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 84 Resp: 51758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 116.0 | 94.2 | 141.4 |
| 51 | 37.1 | 28.8 | 43.2 |
| 86 | 65.2 | 50.3 | 75.5 |



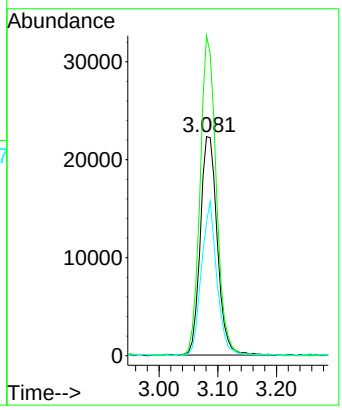


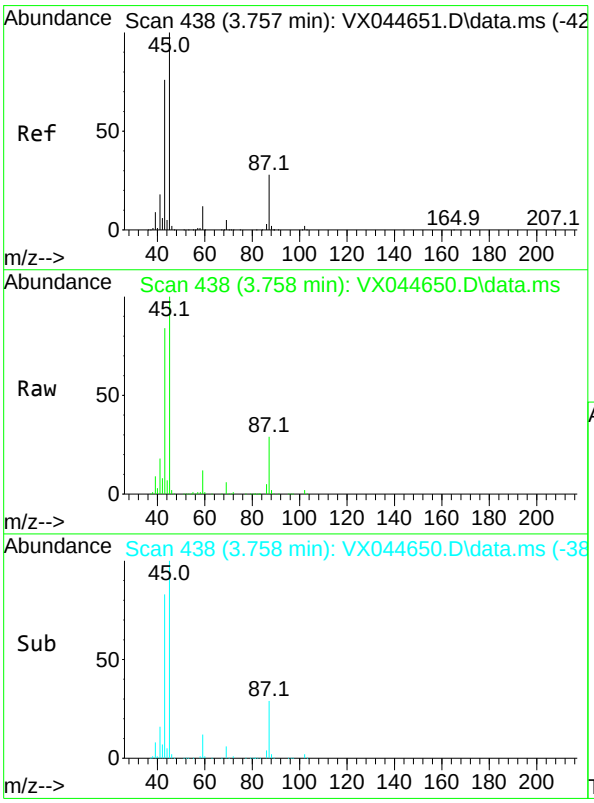

#21
trans-1,2-Dichloroethene
Concen: 19.317 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 44786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 146.2 | 111.0 | 166.6 |
| 98 | 61.0 | 50.2 | 75.2 |

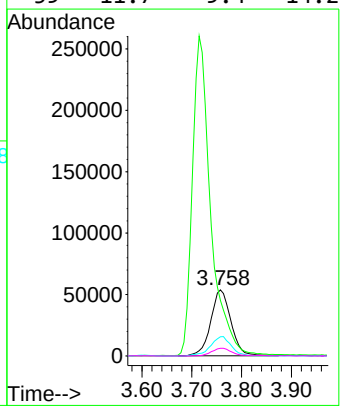


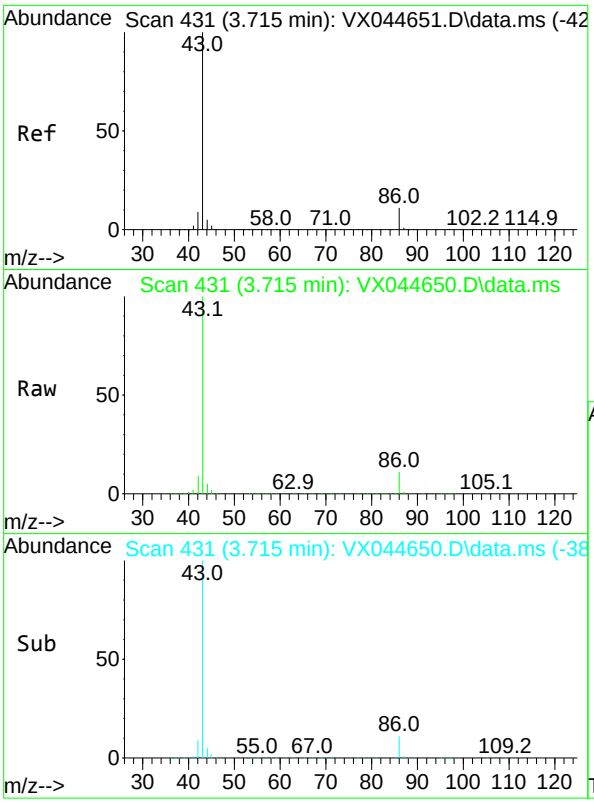




#22
Diisopropyl ether
Concen: 20.095 ug/l
RT: 3.758 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 45 Resp: 151033

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 83.3 | 61.0 | 91.6 |
| 87 | 29.1 | 22.7 | 34.1 |
| 59 | 11.7 | 9.4 | 14.2 |



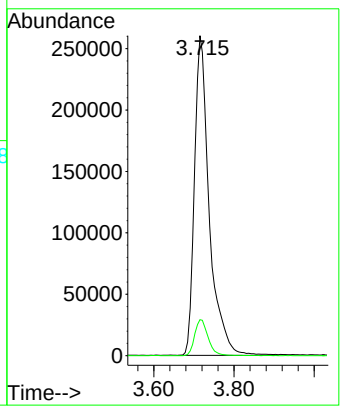


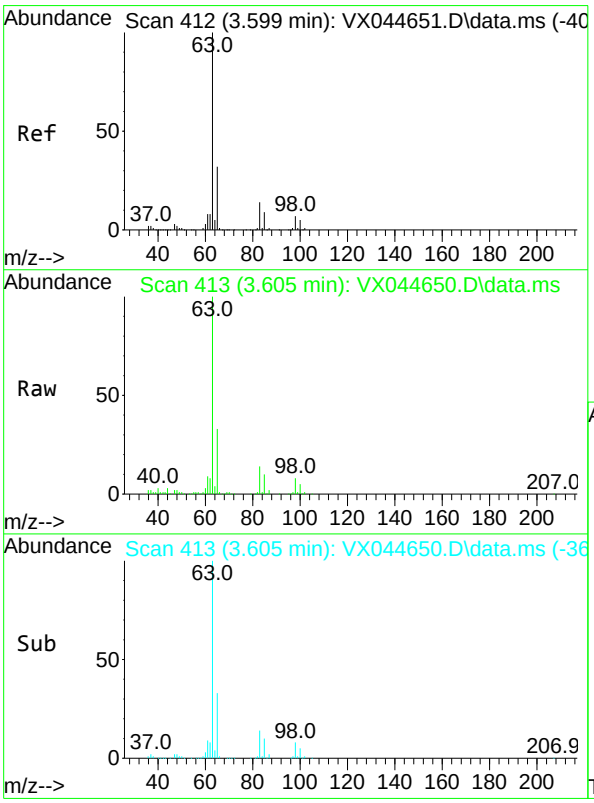

#23
Vinyl Acetate
Concen: 101.337 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 666641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 8.9 | 13.3 |

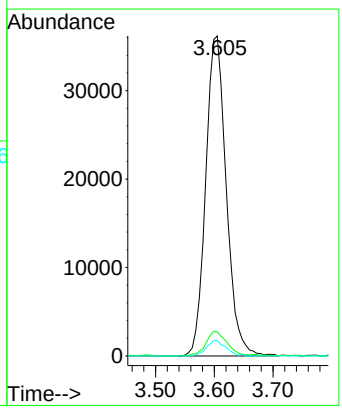


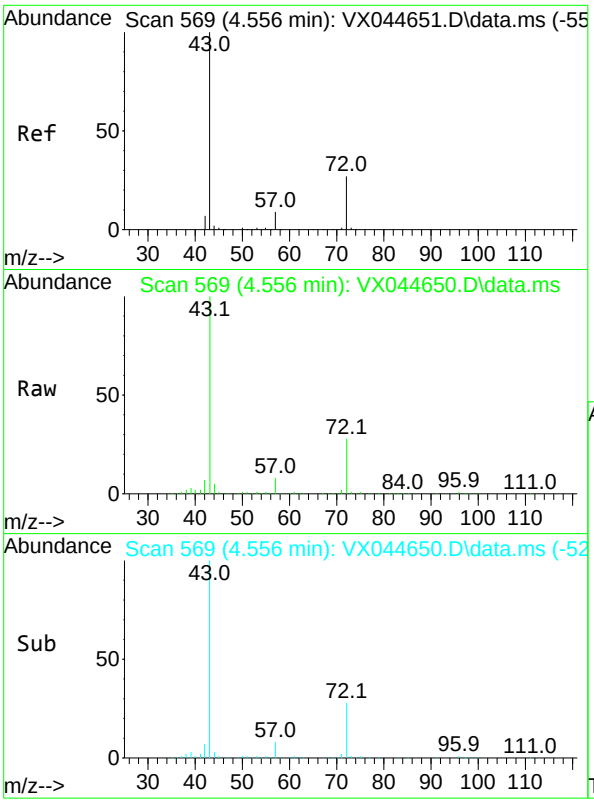




#24
1,1-Dichloroethane
Concen: 19.758 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 63 Resp: 88060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.4 | 3.6 | 10.9 |
| 100 | 4.8 | 2.5 | 7.5 |



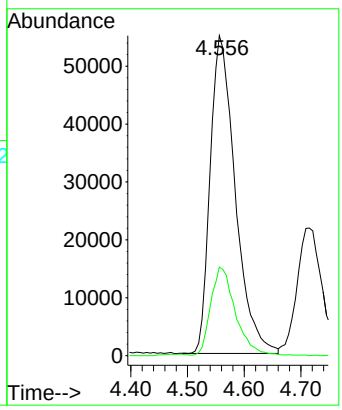


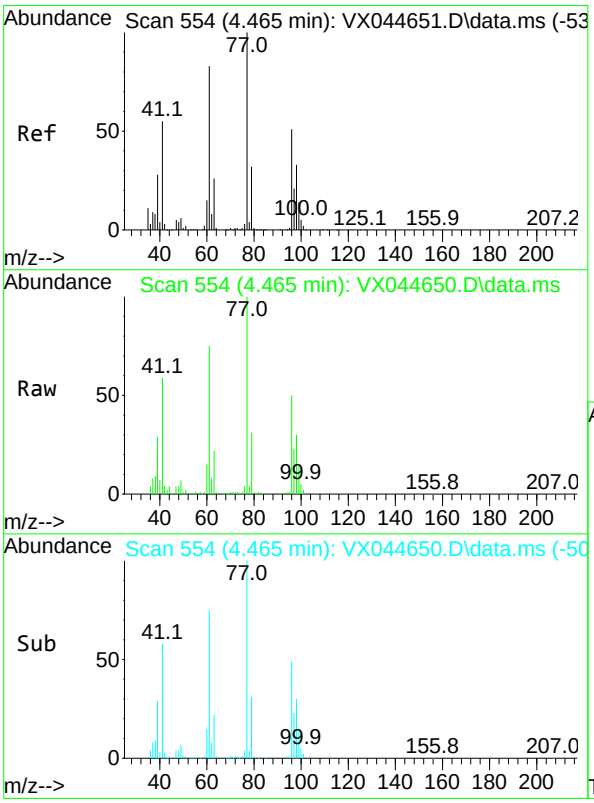

#25
2-Butanone
Concen: 99.946 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 168309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.5 | 21.7 | 32.5 |

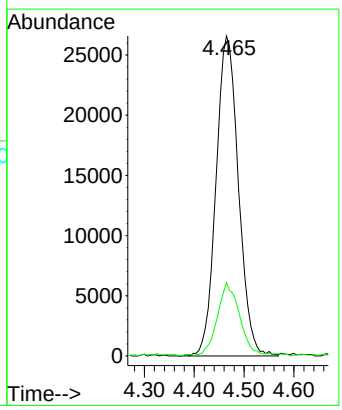


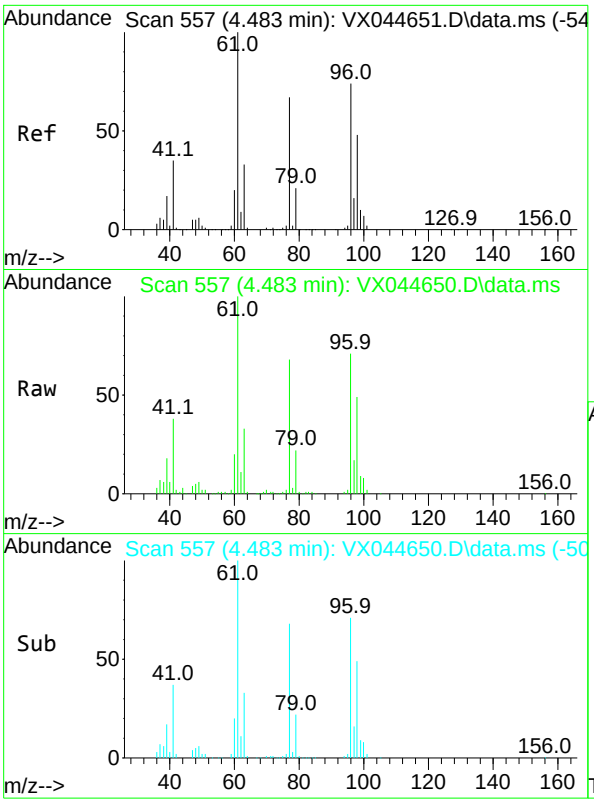




#26
2,2-Dichloropropane
Concen: 19.209 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 77 Resp: 82977

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.3 | 10.9 | 32.6 |



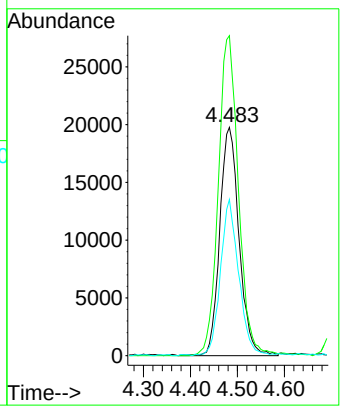


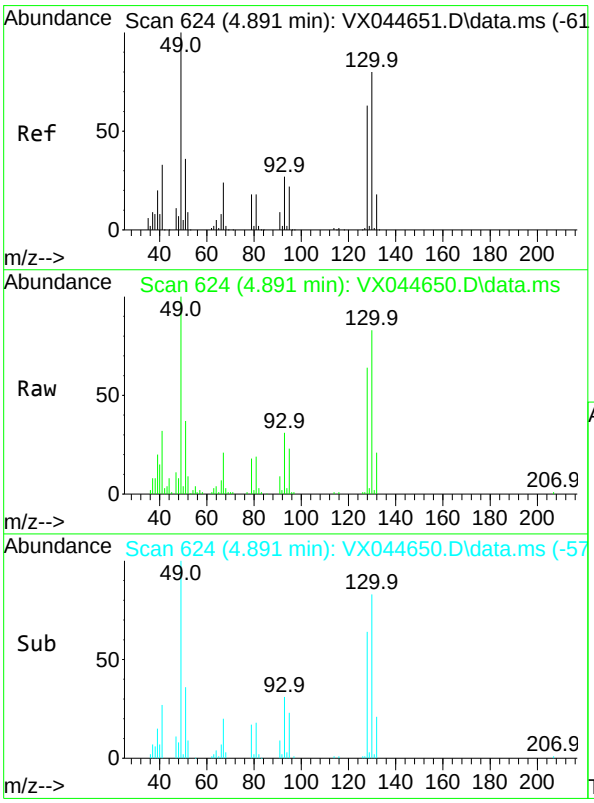

#27
cis-1,2-Dichloroethene
Concen: 19.406 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 96 Resp: 56594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 145.5 | 0.0 | 296.0 |
| 98 | 65.0 | 0.0 | 130.0 |

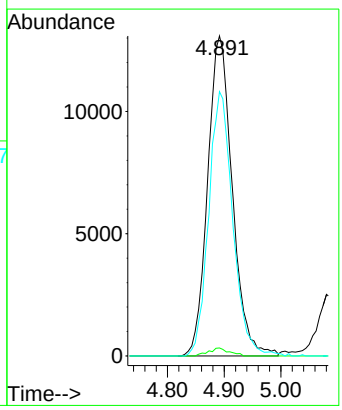


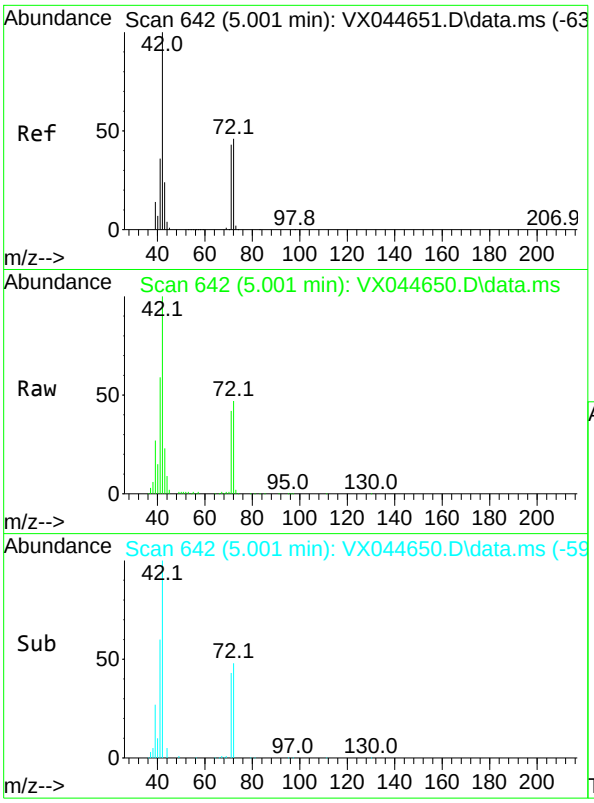




#28
Bromochloromethane
Concen: 18.978 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 49 Resp: 39526

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.1 | 0.0 | 4.4 |
| 130 | 80.8 | 63.4 | 95.2 |



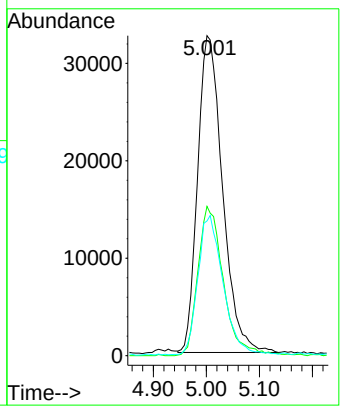


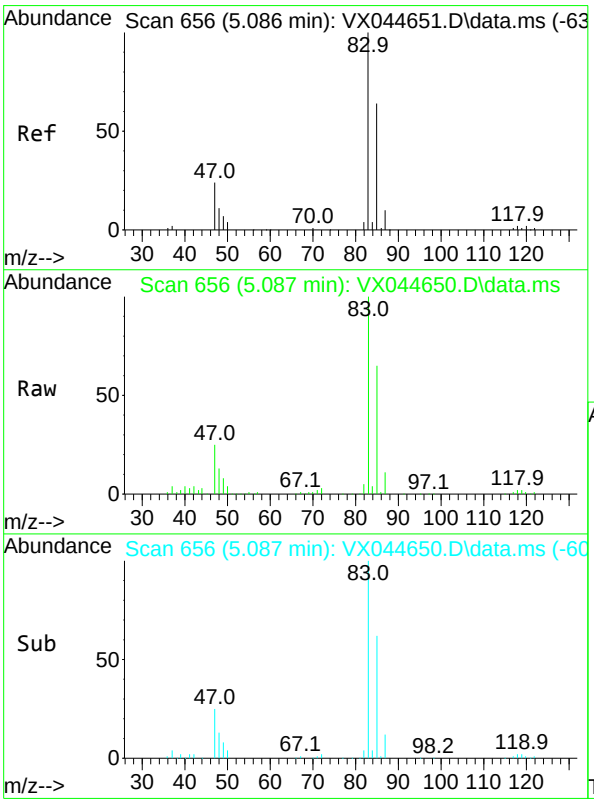

#29
Tetrahydrofuran
Concen: 97.807 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 42 Resp: 106241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.2 | 38.2 | 57.4 |
| 71 | 44.0 | 35.3 | 52.9 |

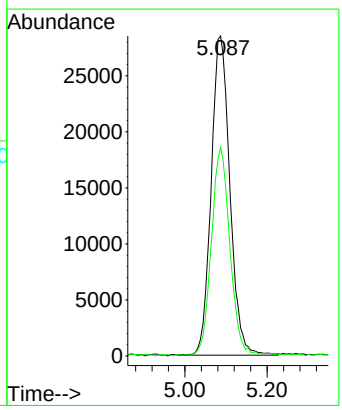


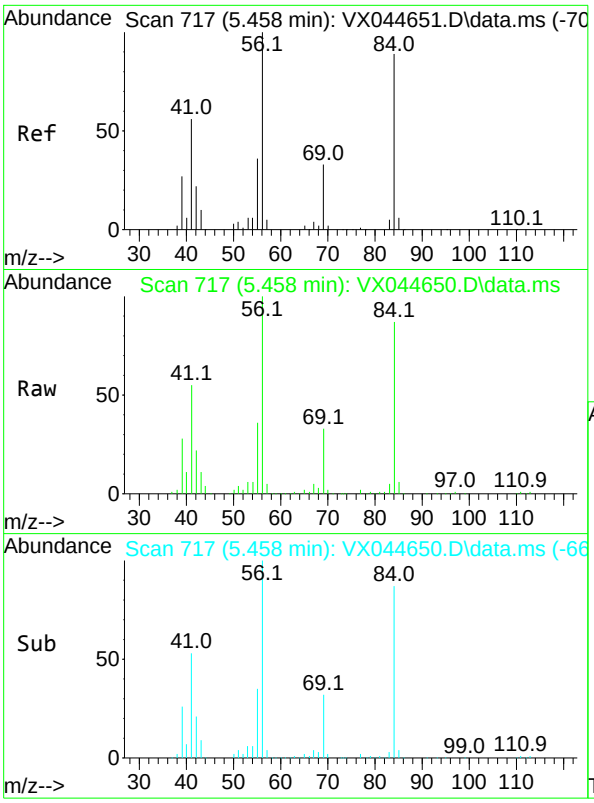




#30
Chloroform
Concen: 19.985 ug/l
RT: 5.087 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 83 Resp: 89891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 51.2 | 76.8 |



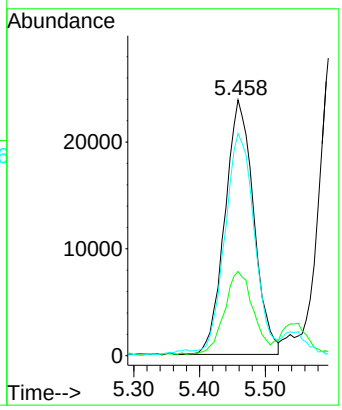


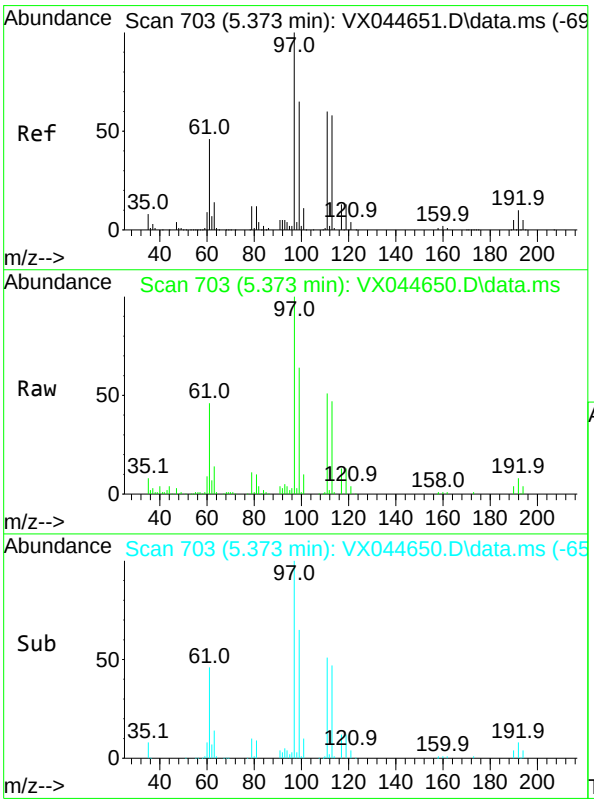

#31
Cyclohexane
Concen: 20.120 ug/l
RT: 5.458 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 56 Resp: 72527

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.5 | 26.8 | 40.2 |
| 84 | 85.4 | 71.0 | 106.4 |

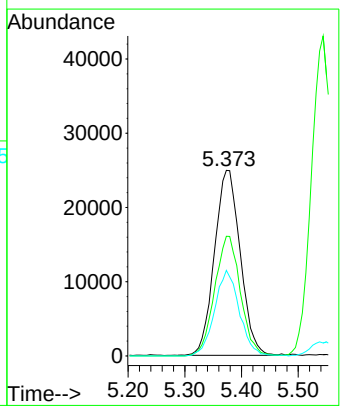


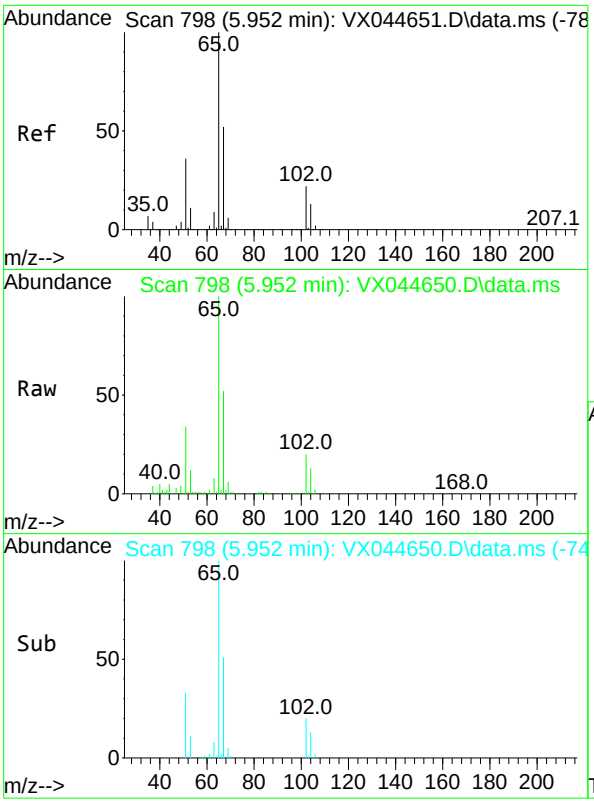




#32
1,1,1-Trichloroethane
Concen: 19.019 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 97 Resp: 78644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.6 | 77.4 |
| 61 | 44.6 | 35.6 | 53.4 |



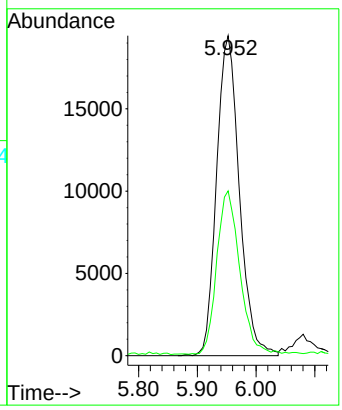


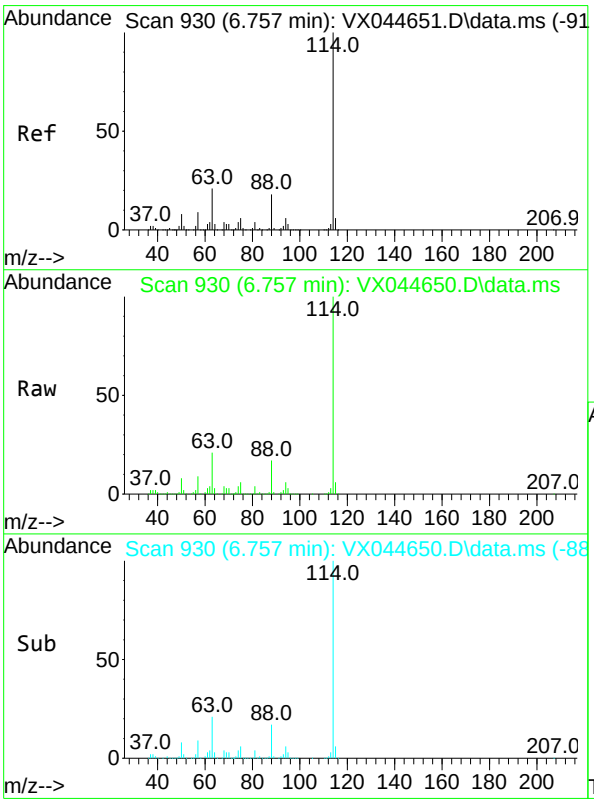

#33
1,2-Dichloroethane-d4
Concen: 18.311 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 65 Resp: 52421

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.5 | 0.0 | 103.4 |

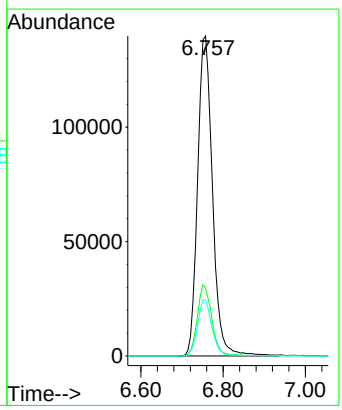


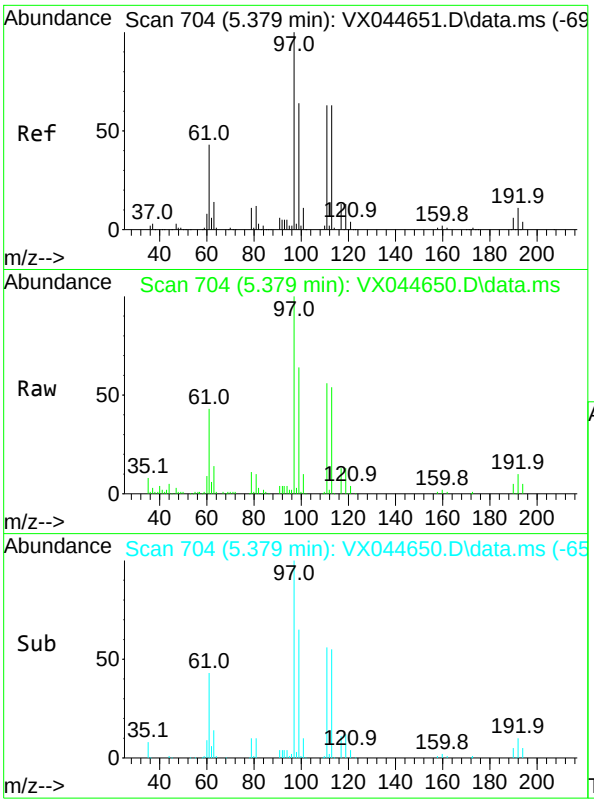




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:114 Resp: 351528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.2 | 0.0 | 43.0 |
| 88 | 17.4 | 0.0 | 35.4 |



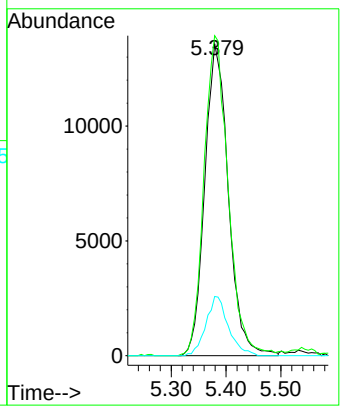


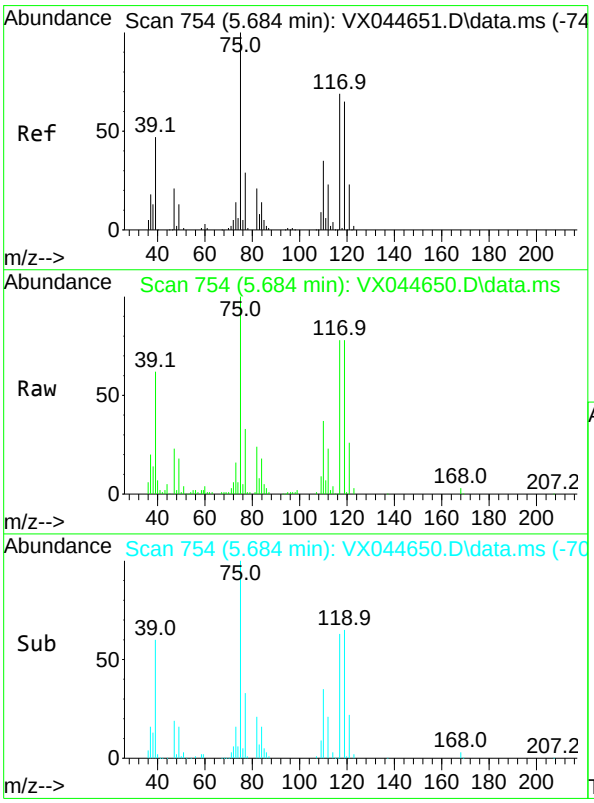

#35
Dibromofluoromethane
Concen: 18.173 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:113 Resp: 40585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.7 | 81.6 | 122.4 |
| 192 | 18.0 | 14.4 | 21.6 |

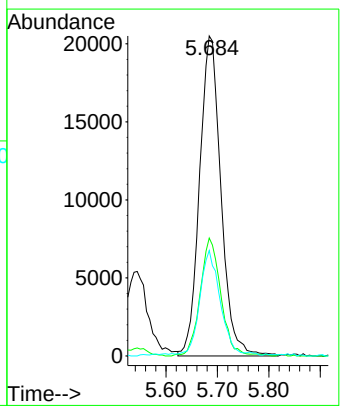


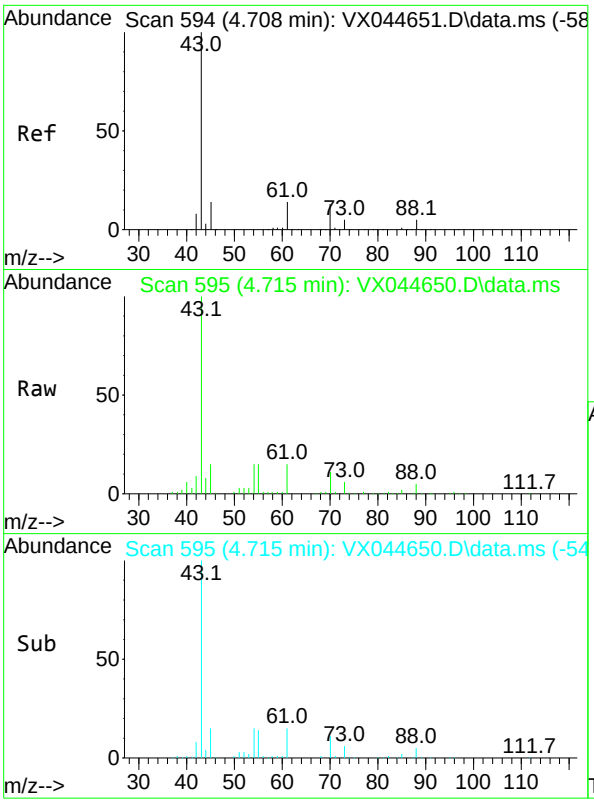




#36
1,1-Dichloropropene
Concen: 19.076 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 75 Resp: 59303

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.8 | 17.9 | 53.8 |
| 77 | 29.8 | 24.5 | 36.7 |



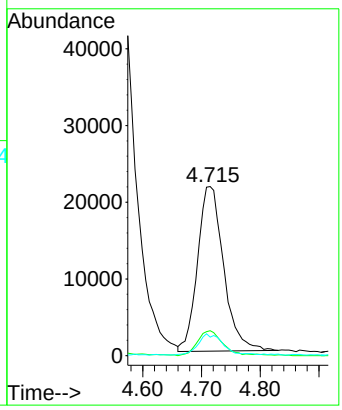


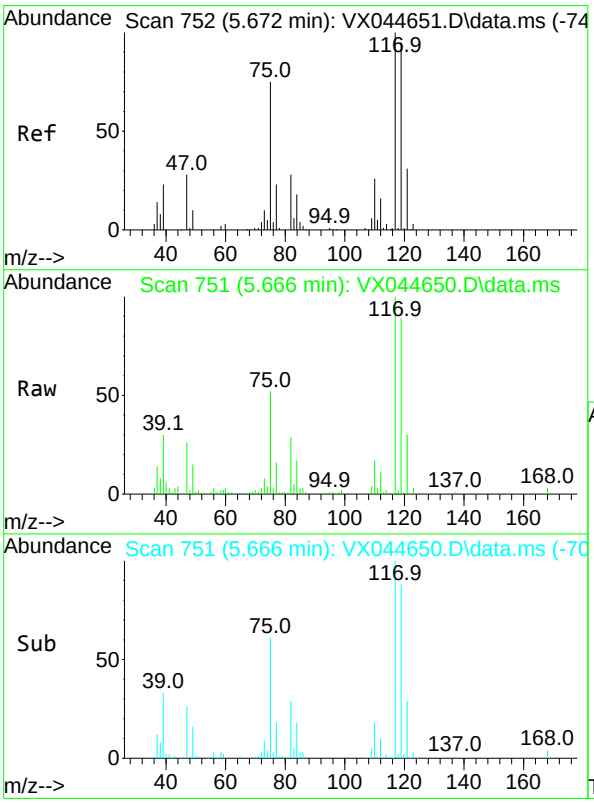

#37
Ethyl Acetate
Concen: 20.034 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 66324

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 15.0 | 10.9 | 16.3 |
| 70 | 12.0 | 10.1 | 15.1 |

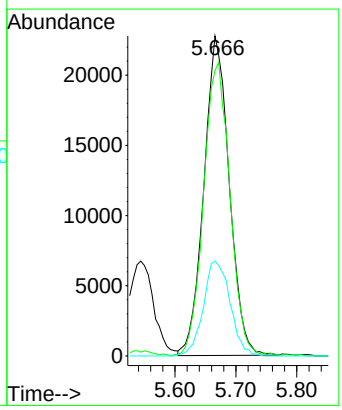


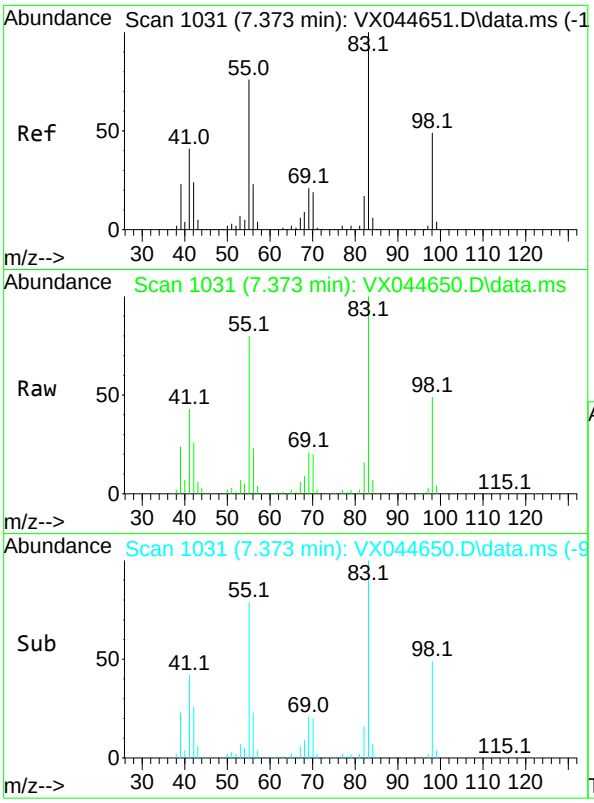




#38
Carbon Tetrachloride
Concen: 18.829 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:117 Resp: 65838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 89.1 | 76.0 | 114.0 |
| 121 | 29.7 | 24.6 | 36.8 |



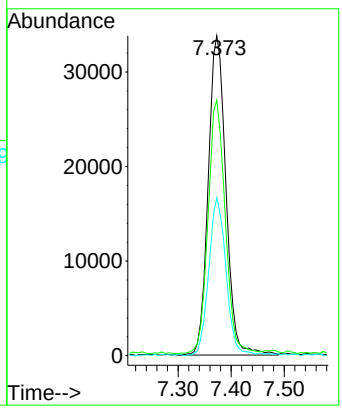


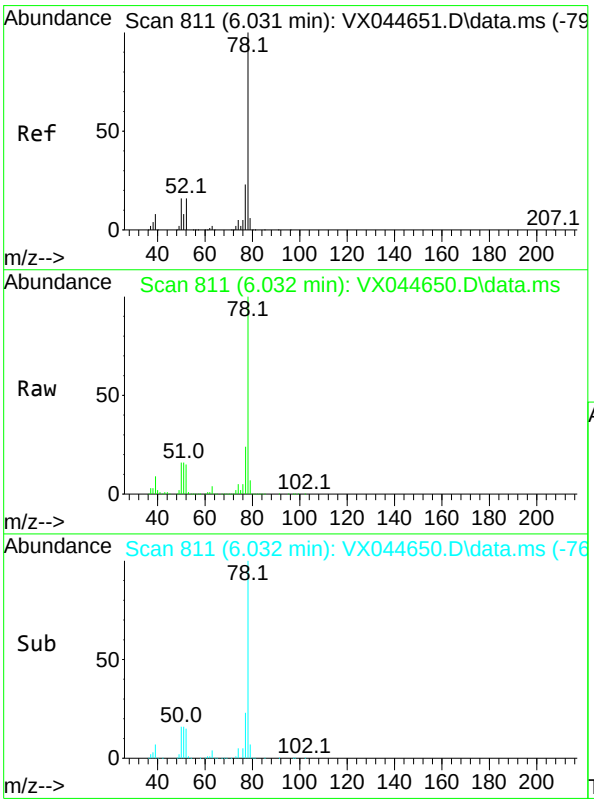

#39
Methylcyclohexane
Concen: 18.961 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 78248

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 79.3 | 60.5 | 90.7 |
| 98 | 49.2 | 39.0 | 58.4 |

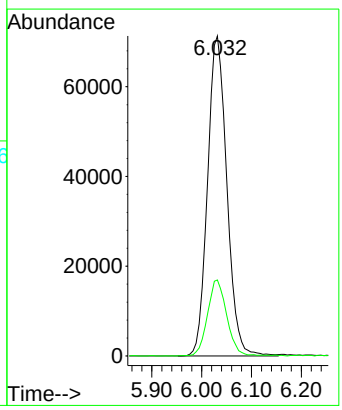


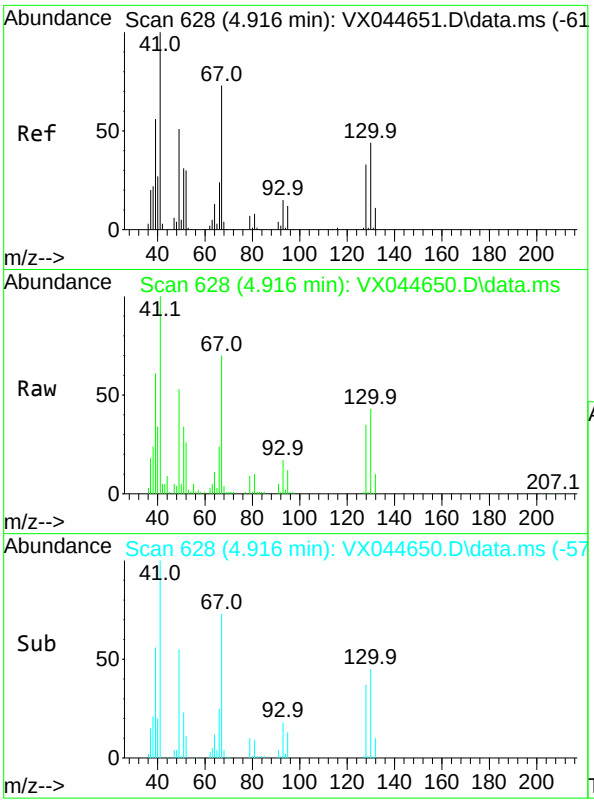




#40
Benzene
Concen: 19.911 ug/l
RT: 6.032 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 78 Resp: 191801

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.7 | 18.7 | 28.1 |



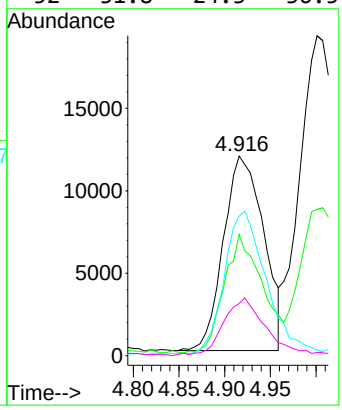


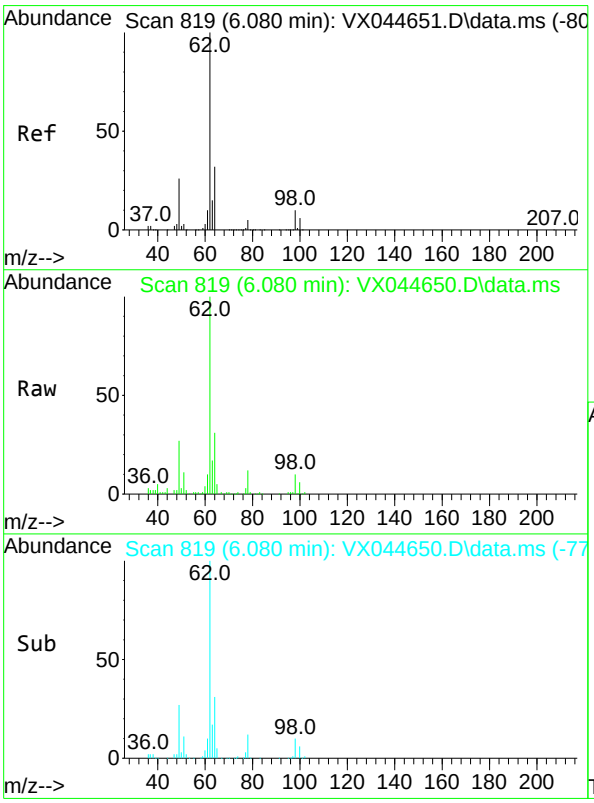

#41
Methacrylonitrile
Concen: 18.755 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 41 Resp: 36180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 58.8 | 44.4 | 66.6 |
| 67 | 75.9 | 60.6 | 90.8 |
| 52 | 31.8 | 24.3 | 36.5 |

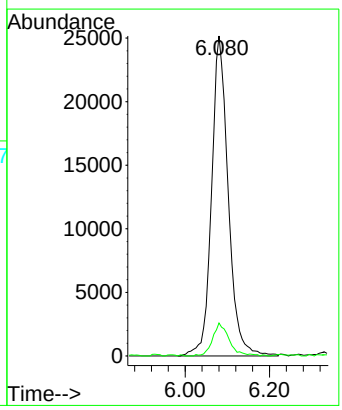


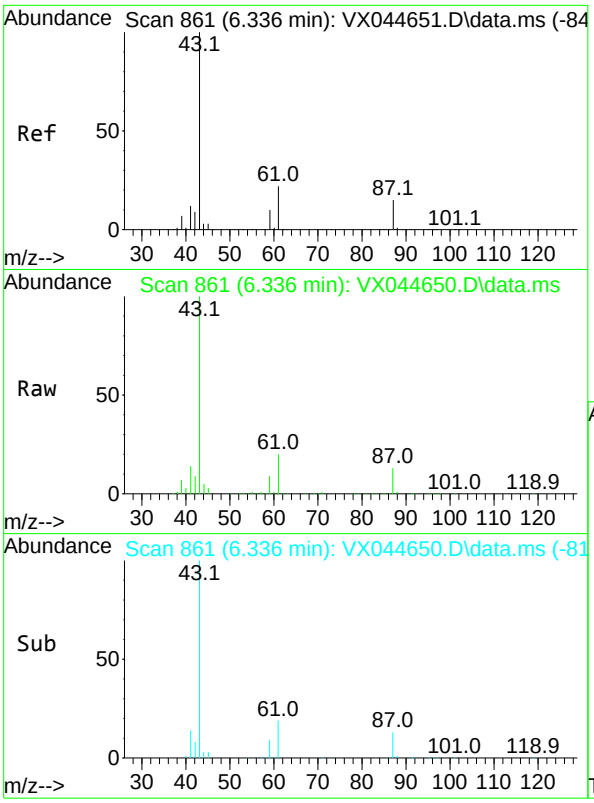




#42
1,2-Dichloroethane
Concen: 19.635 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 62 Resp: 69034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.2 | 0.0 | 19.4 |



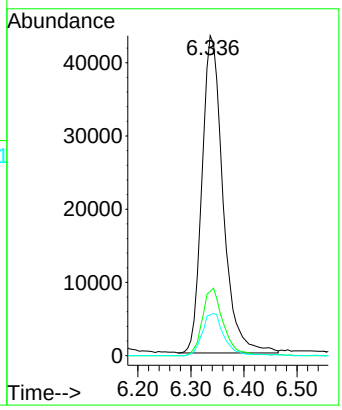


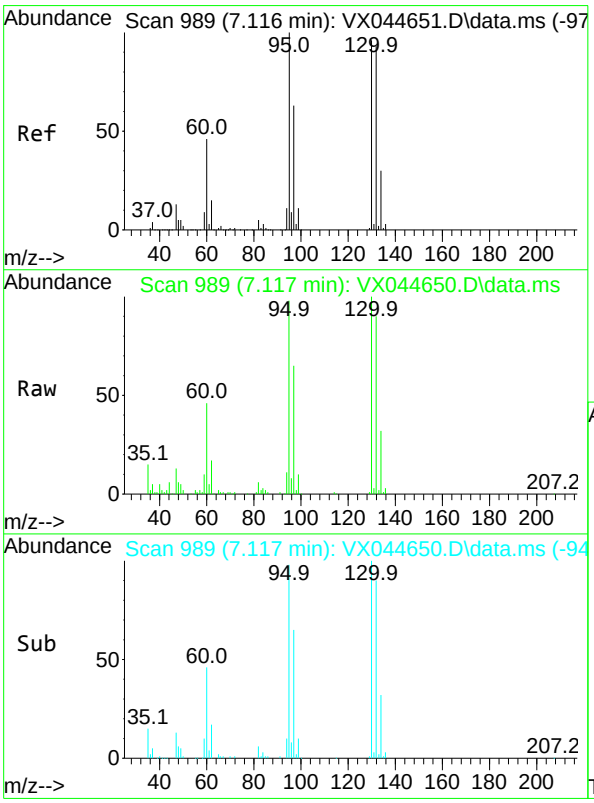

#43
Isopropyl Acetate
Concen: 19.633 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 119568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.1 | 16.6 | 24.8 |
| 87 | 13.5 | 11.0 | 16.6 |

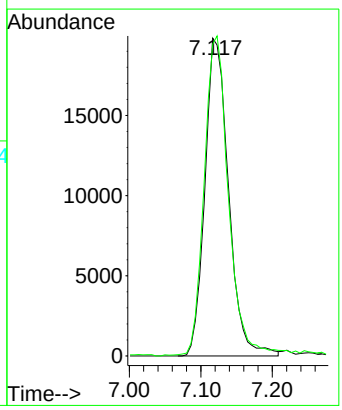


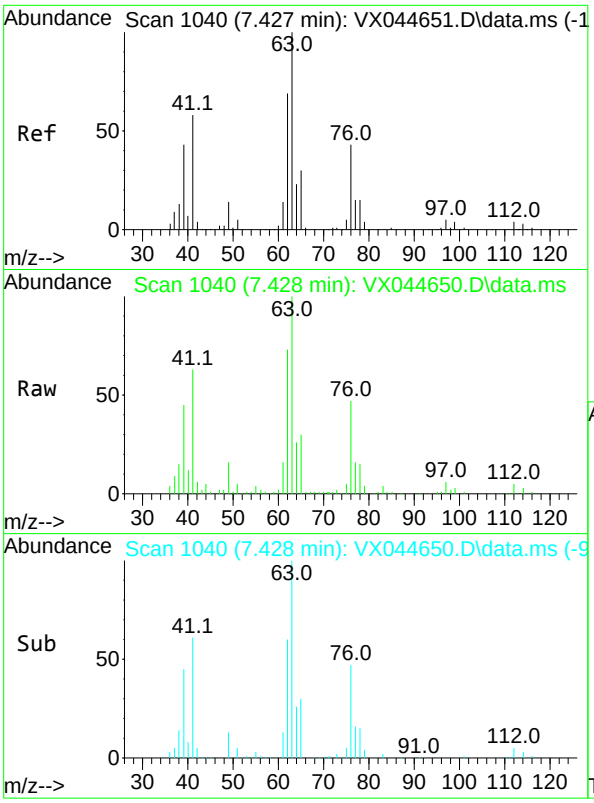




#44
Trichloroethene
Concen: 19.689 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:130 Resp: 45597

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 97.7 | 0.0 | 208.2 |



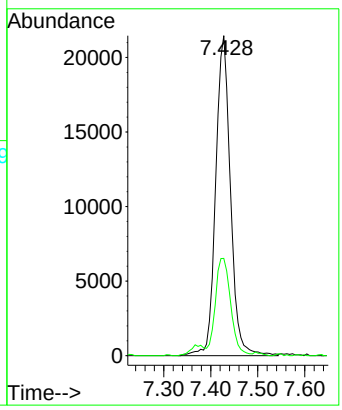


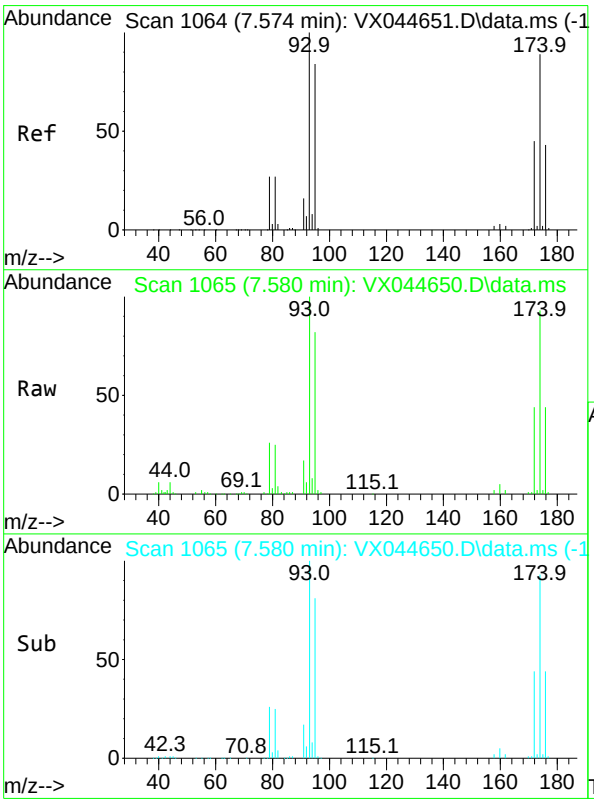

#45
1,2-Dichloropropane
Concen: 19.429 ug/l
RT: 7.428 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 63 Resp: 47111

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.4 | 24.2 | 36.2 |

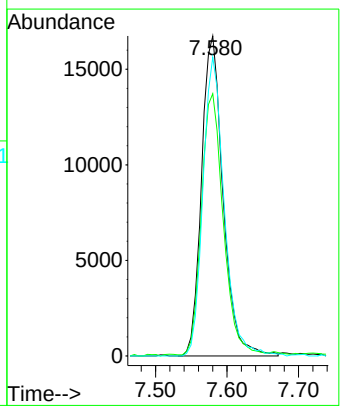


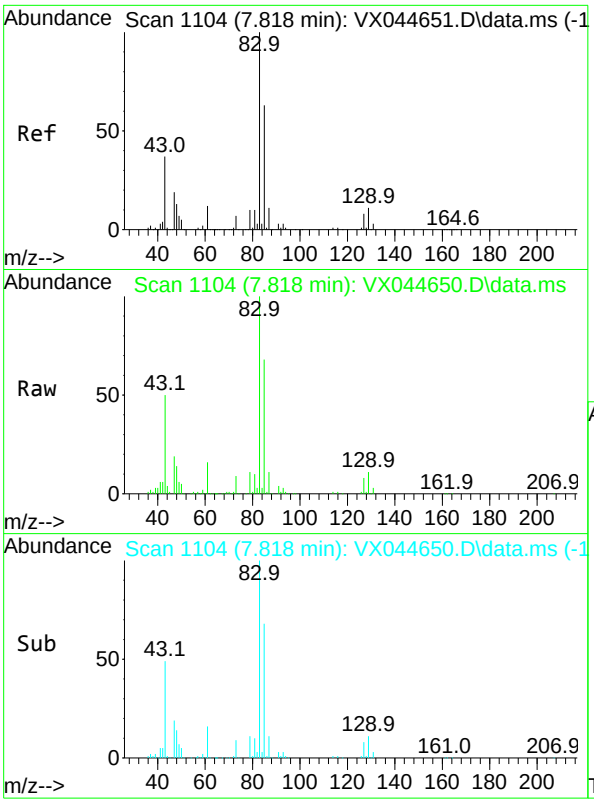




#46
Dibromomethane
Concen: 18.991 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 93 Resp: 35056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.3 | 66.4 | 99.6 |
| 174 | 92.1 | 72.0 | 108.0 |



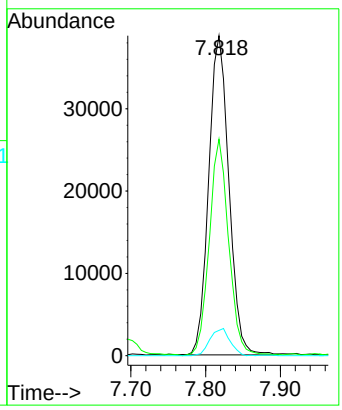


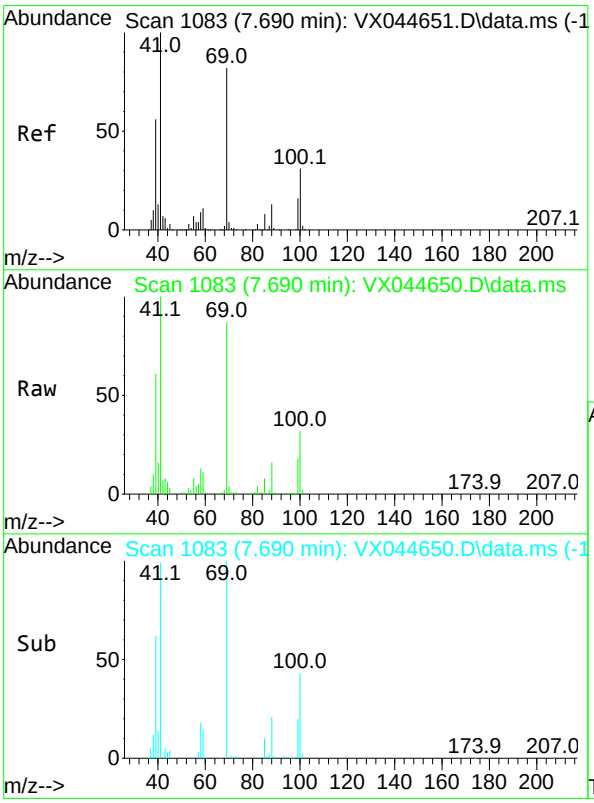

#47
Bromodichloromethane
Concen: 19.241 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 72837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 67.6 | 50.1 | 75.1 |
| 127 | 7.9 | 6.5 | 9.7 |

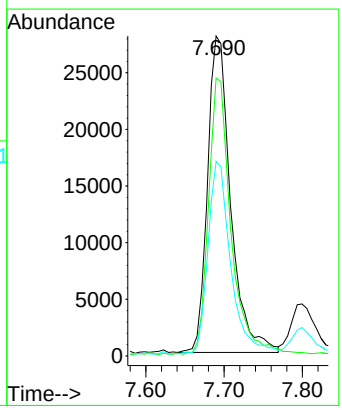


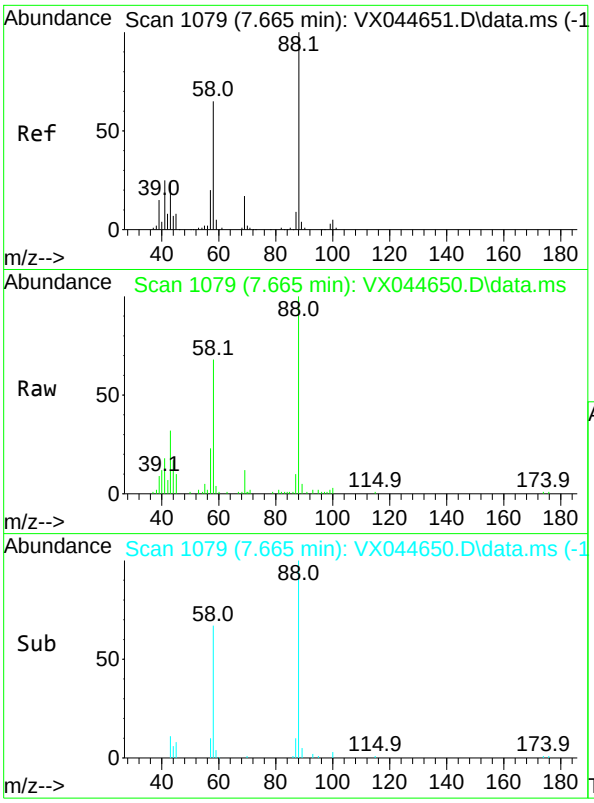




#48
Methyl methacrylate
Concen: 20.310 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 41 Resp: 57413

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.9 | 66.8 | 100.2 |
| 39 | 60.0 | 47.4 | 71.0 |



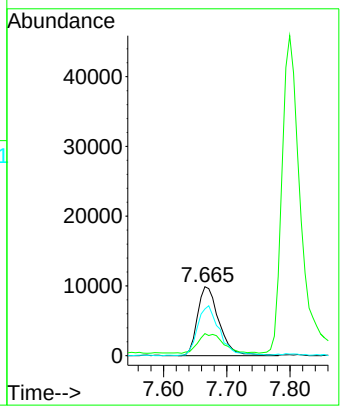


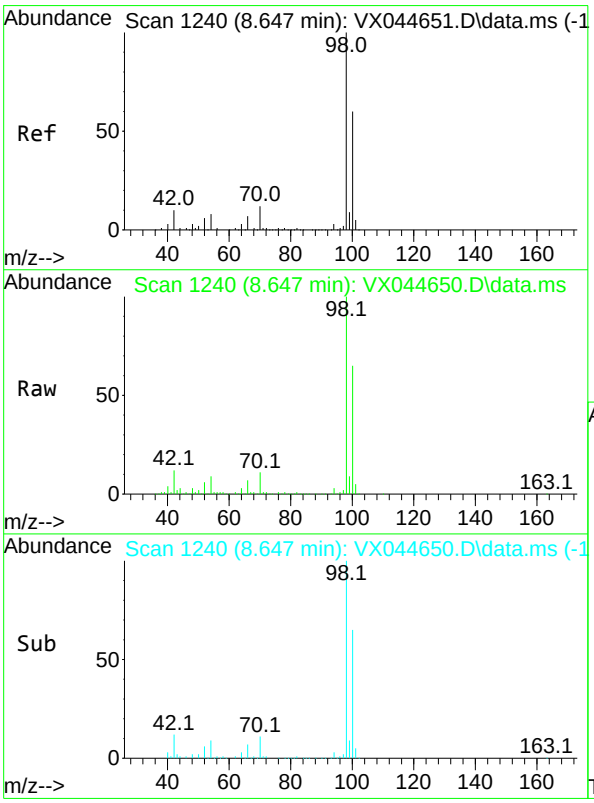

#49
1,4-Dioxane
Concen: 397.311 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 88 Resp: 23433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.8 | 27.0 | 40.4 |
| 58 | 72.7 | 55.8 | 83.8 |

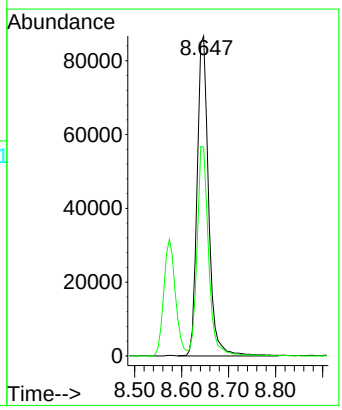


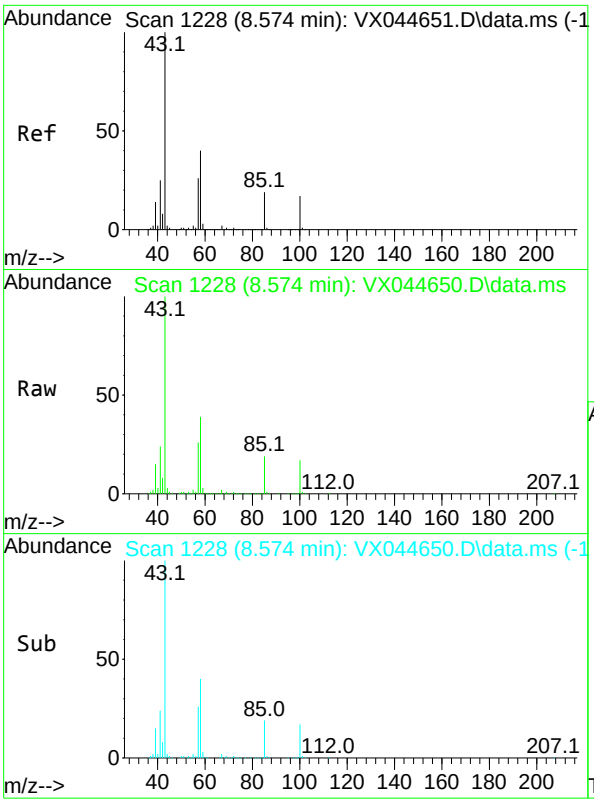




#50
Toluene-d8
Concen: 18.987 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 98 Resp: 147843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.5 | 53.2 | 79.8 |



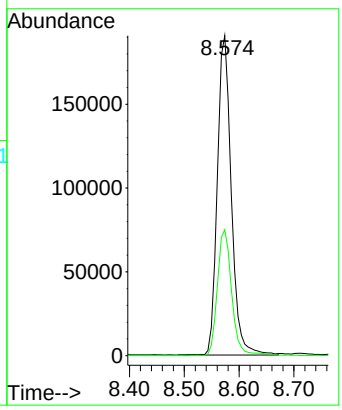


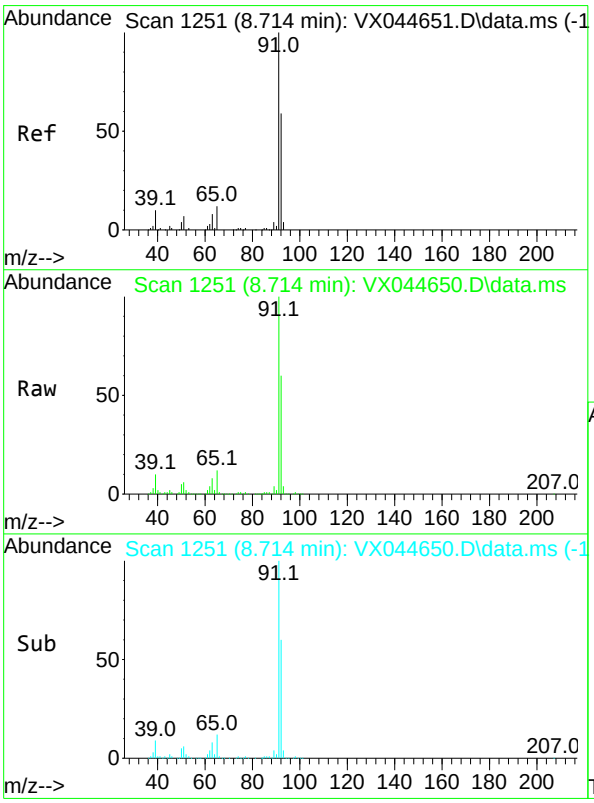

#51
4-Methyl-2-Pentanone
Concen: 100.520 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 338304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.4 | 31.9 | 47.9 |

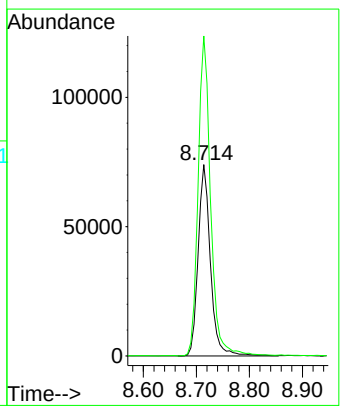


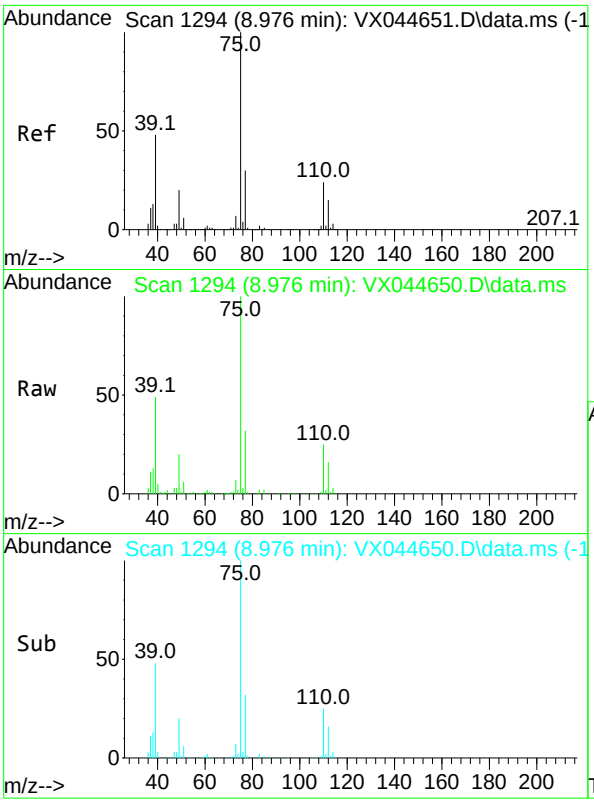




#52
Toluene
Concen: 20.253 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 92 Resp: 119410

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.2 | 135.7 | 203.5 |



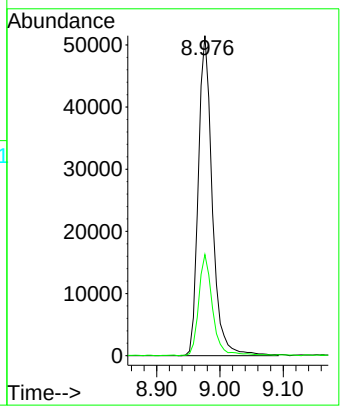


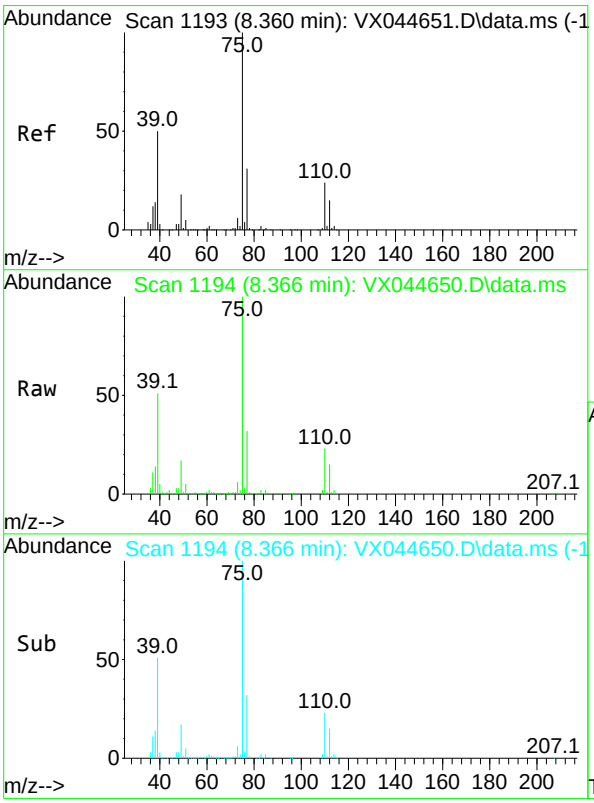

#53
t-1,3-Dichloropropene
Concen: 20.266 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 79260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.6 | 24.4 | 36.6 |

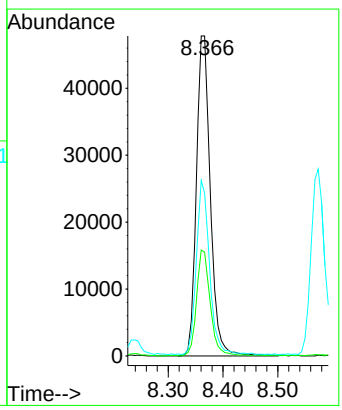


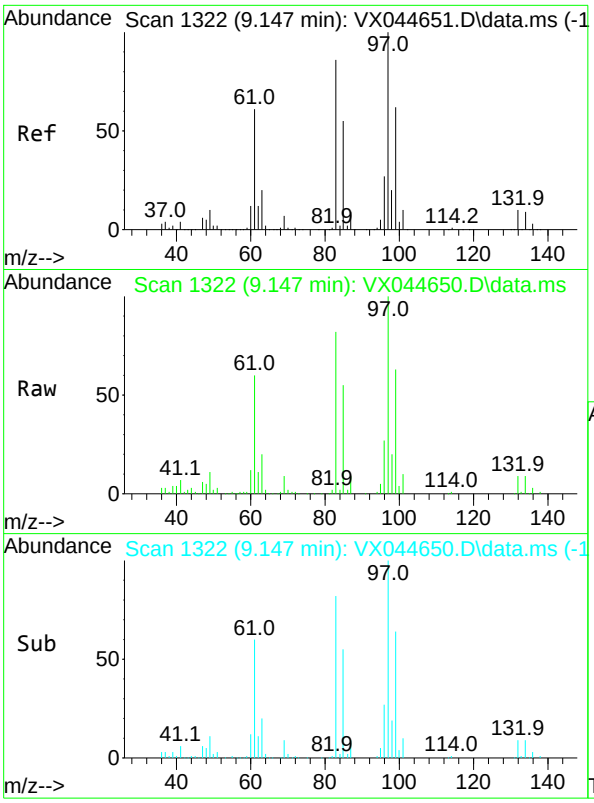




#54
cis-1,3-Dichloropropene
Concen: 20.008 ug/l
RT: 8.366 min Scan# 1194
Delta R.T. 0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 75 Resp: 84851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.4 | 25.1 | 37.7 |
| 39 | 50.6 | 40.3 | 60.5 |



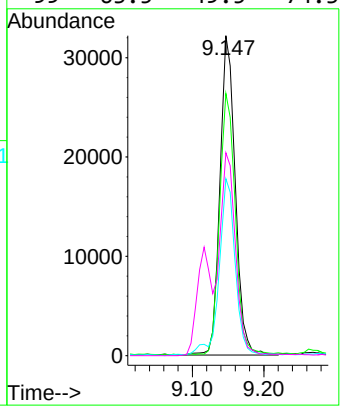


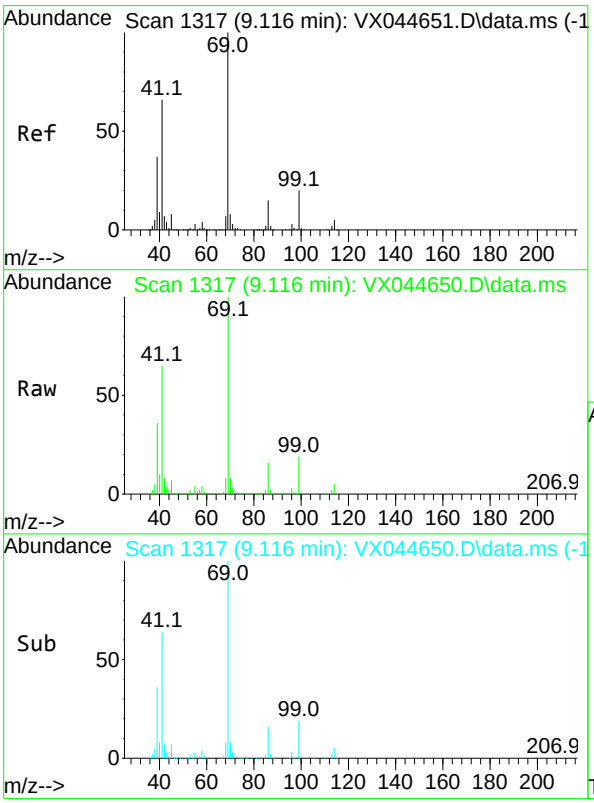

#55
1,1,2-Trichloroethane
Concen: 20.093 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 97 Resp: 47930

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 81.9 | 68.8 | 103.2 |
| 85 | 55.0 | 43.7 | 65.5 |
| 99 | 63.5 | 49.5 | 74.3 |

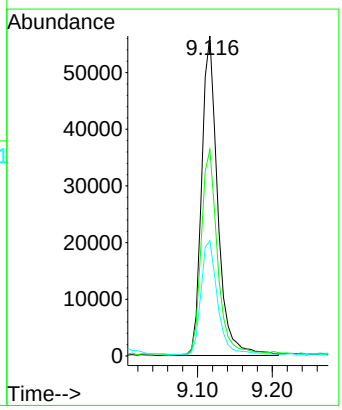


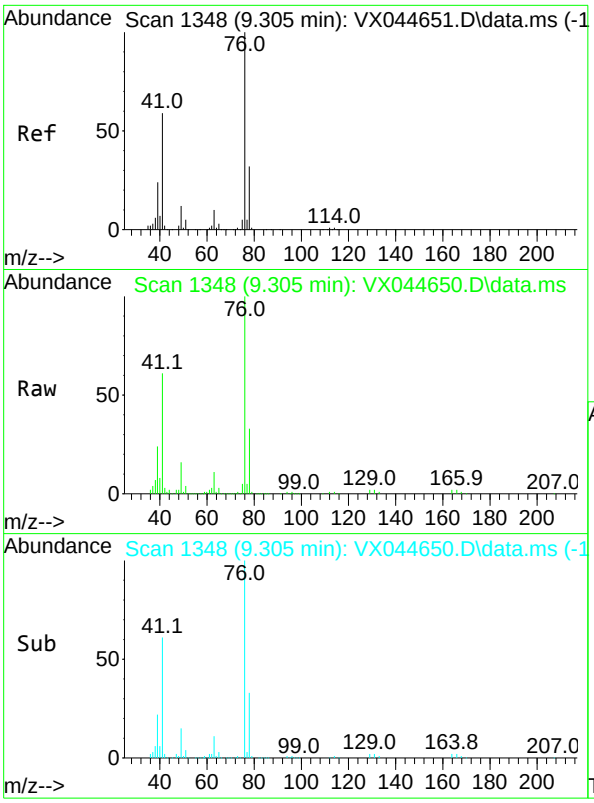




#56
Ethyl methacrylate
Concen: 20.496 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 69 Resp: 84067

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.2 | 53.2 | 79.8 |
| 39 | 36.9 | 30.2 | 45.2 |



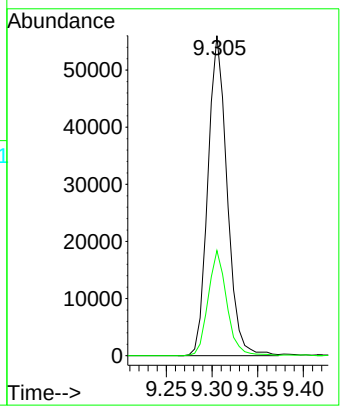


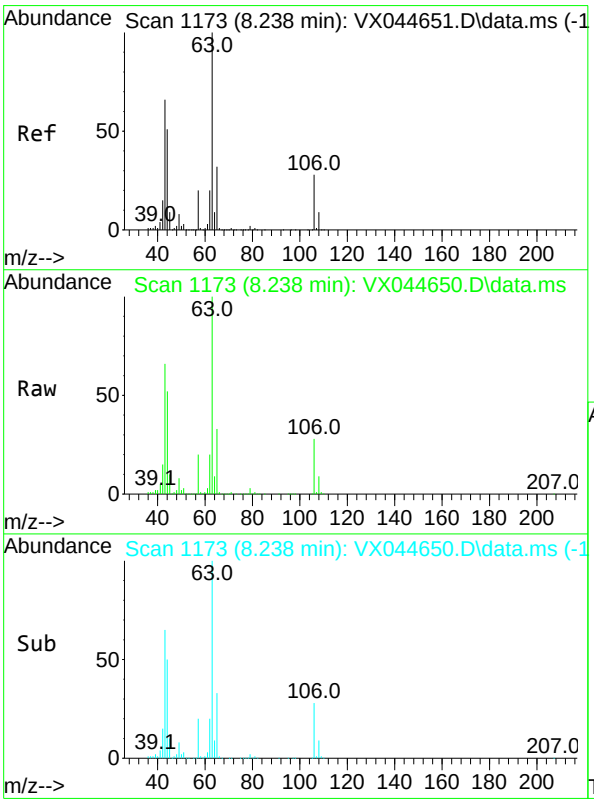

#57
1,3-Dichloropropane
Concen: 20.117 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 76 Resp: 81718

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 26.0 | 39.0 |

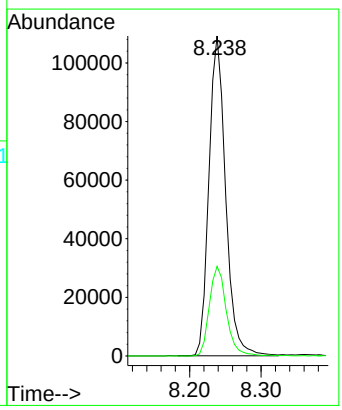


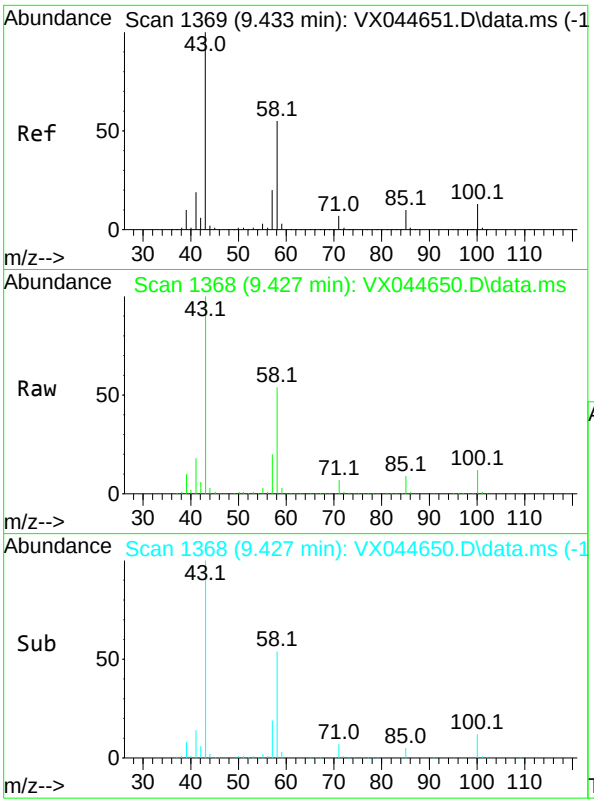




#58
2-Chloroethyl Vinyl ether
Concen: 87.899 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 63 Resp: 176999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.4 | 23.0 | 34.6 |



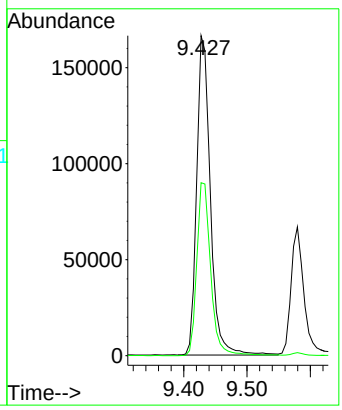


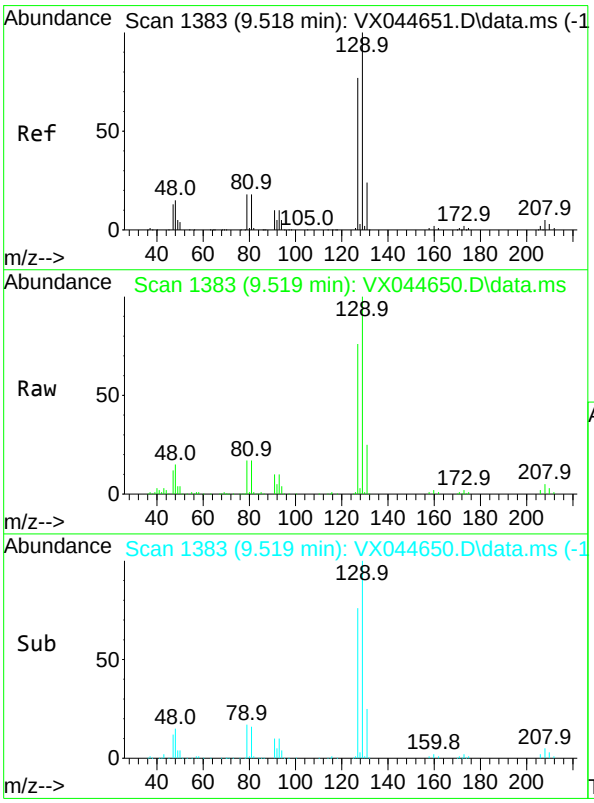

#59
2-Hexanone
Concen: 101.288 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 43 Resp: 250792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.0 | 27.8 | 83.3 |

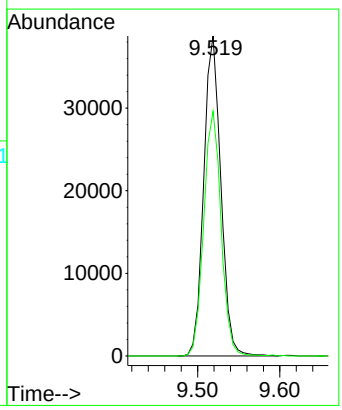


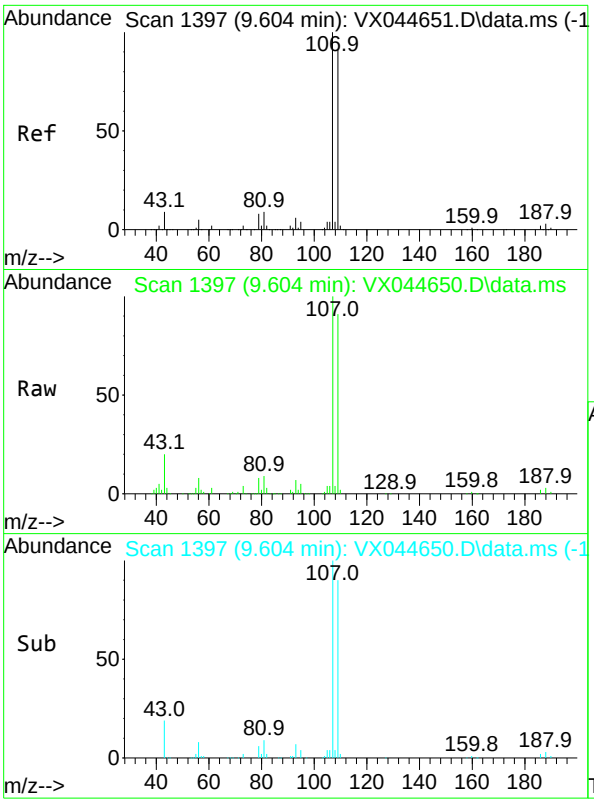




#60
Dibromochloromethane
Concen: 20.015 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:129 Resp: 56038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |



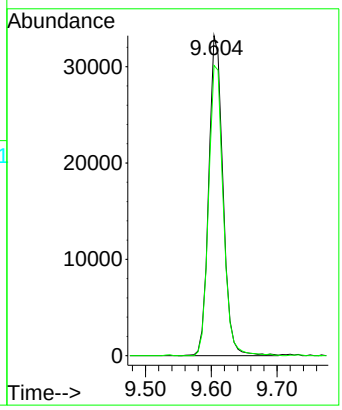


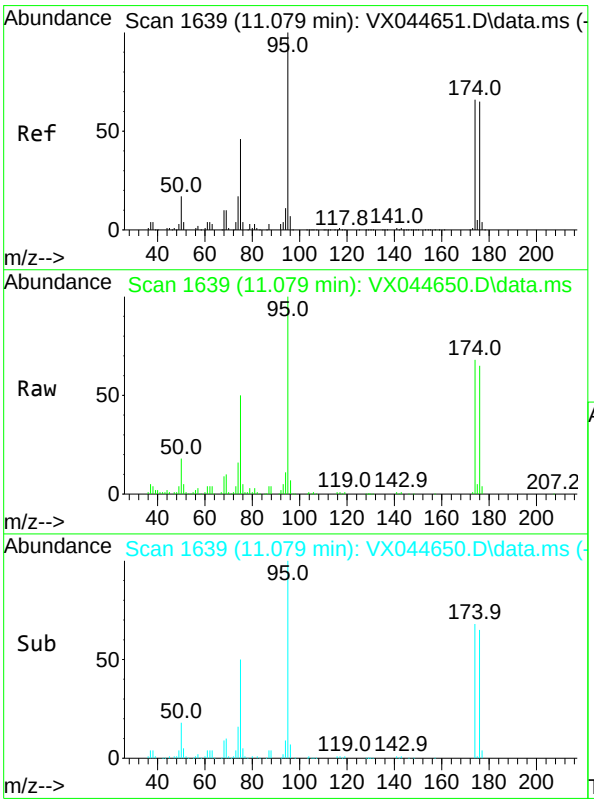

#61
1,2-Dibromoethane
Concen: 20.025 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:107 Resp: 50060

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.4 | 75.3 | 112.9 |

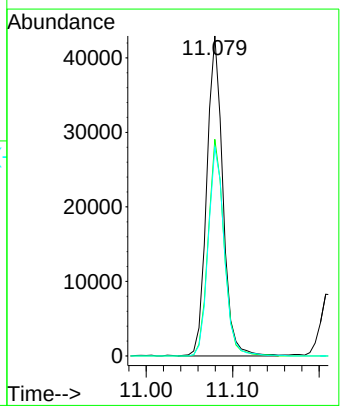


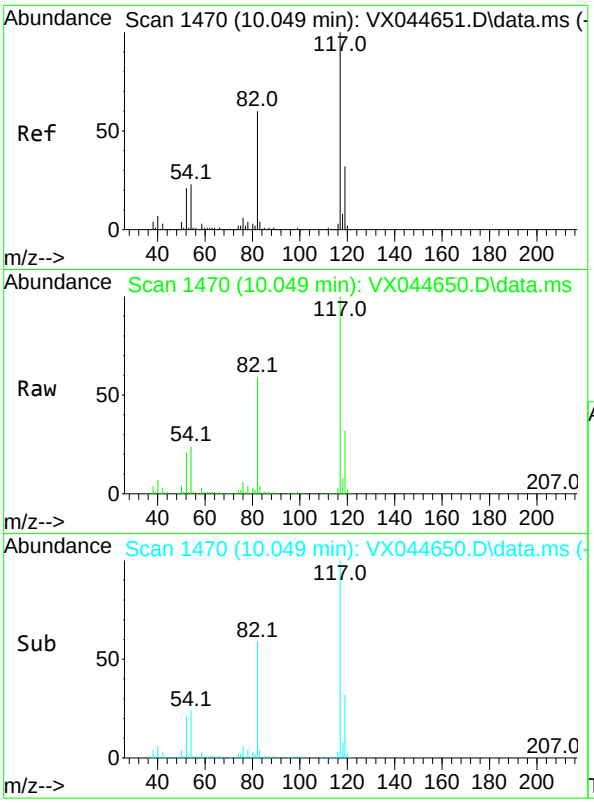




#62
4-Bromofluorobenzene
Concen: 19.087 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 95 Resp: 55407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.7 | 0.0 | 133.0 |
| 176 | 65.3 | 0.0 | 129.4 |



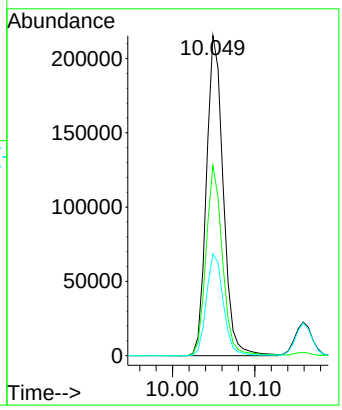


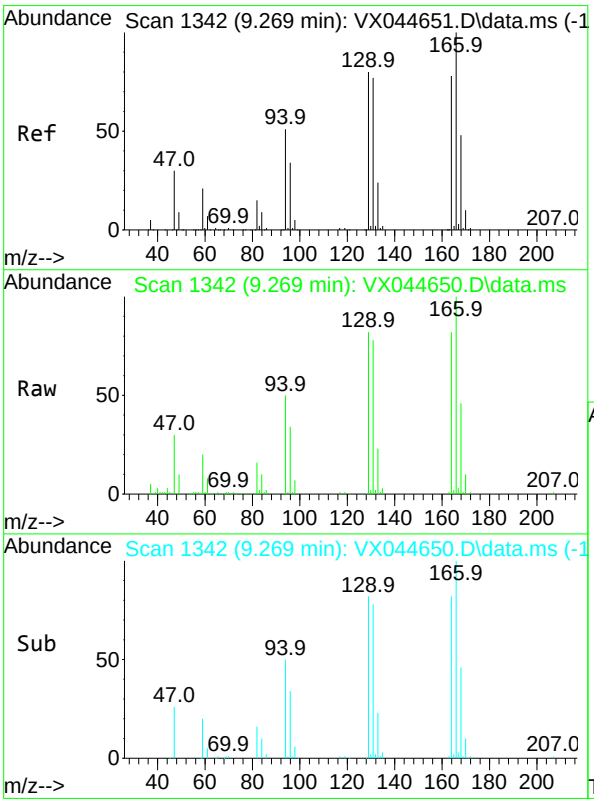

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:117 Resp: 305422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.4 | 47.6 | 71.4 |
| 119 | 31.9 | 25.4 | 38.2 |

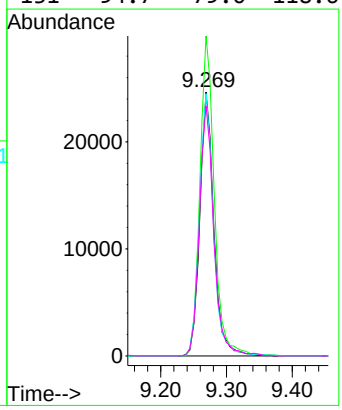


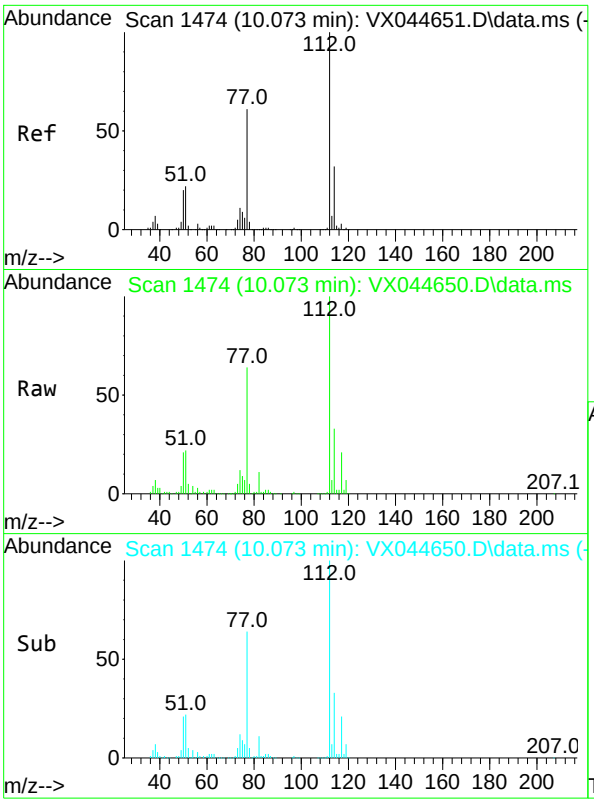




#64
Tetrachloroethene
Concen: 19.066 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:164 Resp: 36566

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 121.3 | 102.0 | 153.0 |
| 129 | 99.4 | 81.1 | 121.7 |
| 131 | 94.7 | 79.0 | 118.6 |



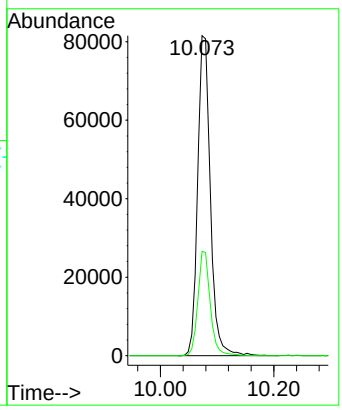


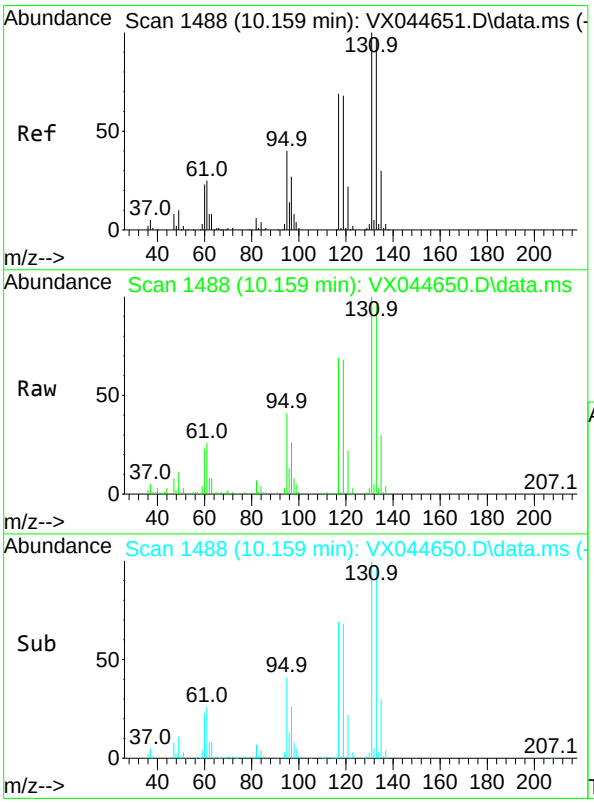

#65
Chlorobenzene
Concen: 19.506 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:112 Resp: 126540

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.6 | 25.3 | 37.9 |

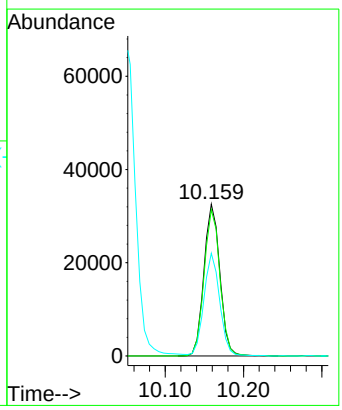


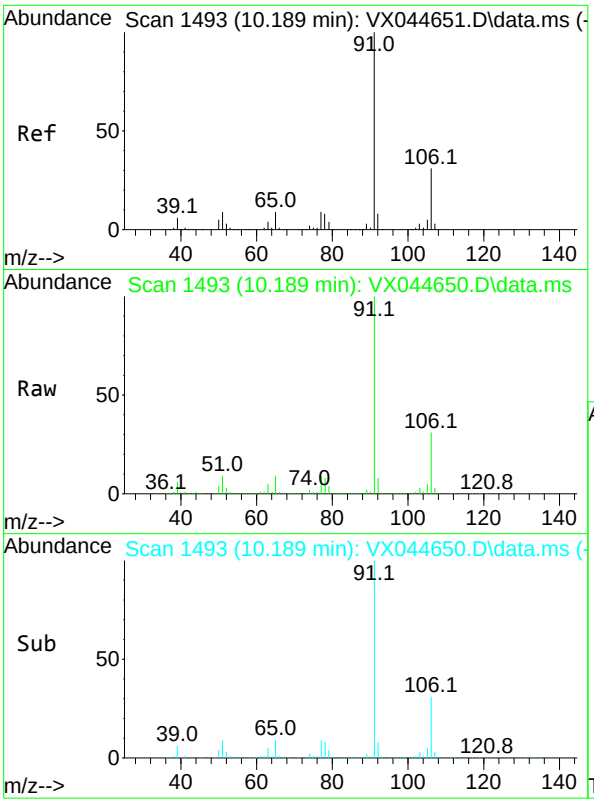




#66
1,1,1,2-Tetrachloroethane
Concen: 19.493 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:131 Resp: 45959

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.3 | 47.8 | 143.3 |
| 119 | 67.1 | 33.4 | 100.2 |



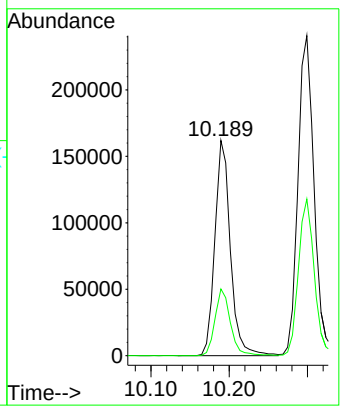


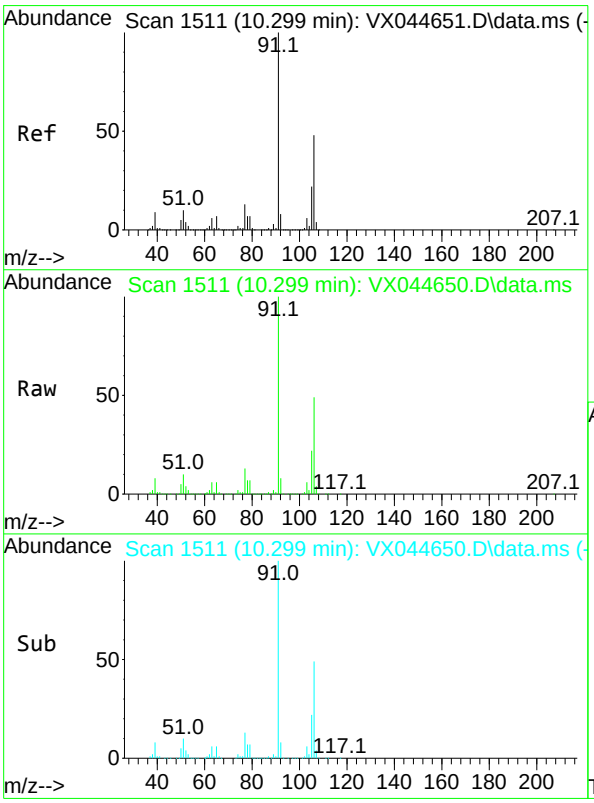

#67
Ethyl Benzene
Concen: 19.723 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 223249

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.0 | 25.0 | 37.6 |

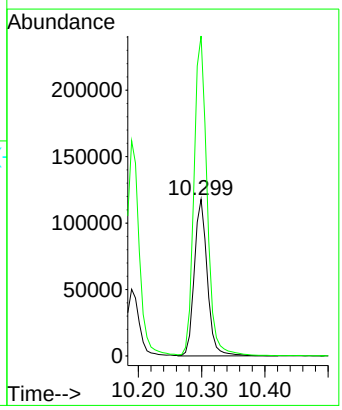


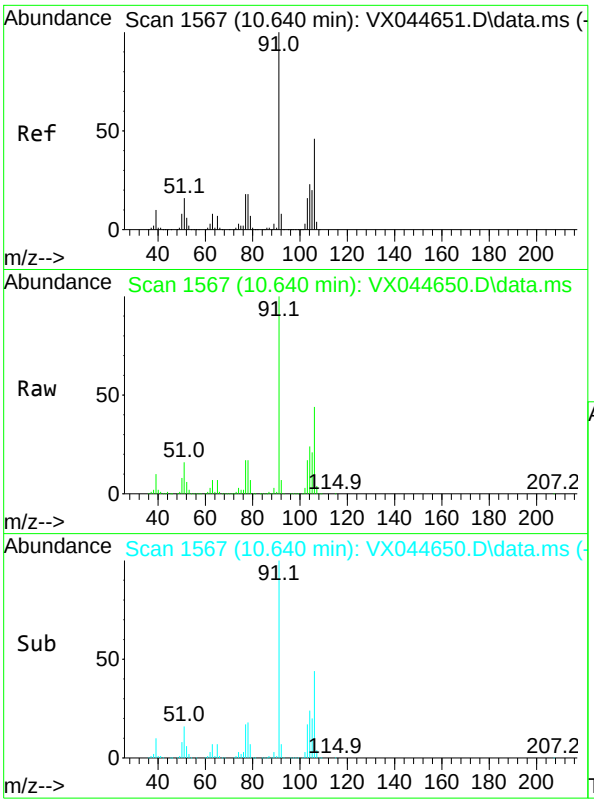




#68
m/p-Xylenes
Concen: 39.921 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:106 Resp: 167689

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.5 | 166.4 | 249.6 |



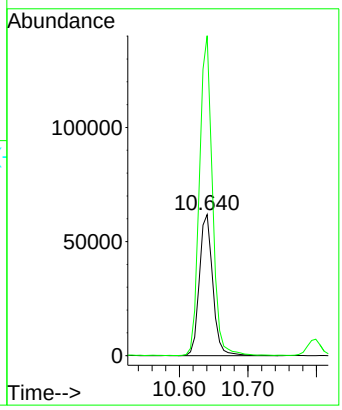


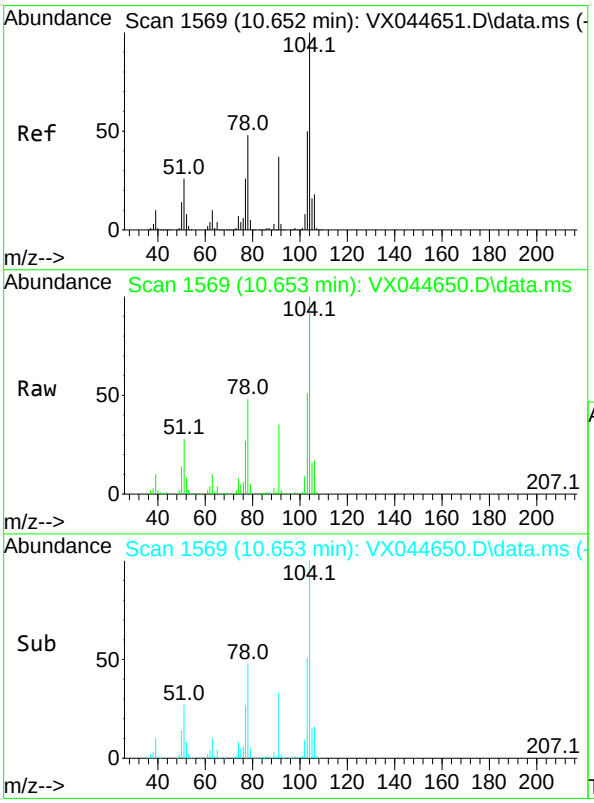

#69
o-Xylene
Concen: 19.840 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:106 Resp: 84280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.4 | 108.7 | 326.3 |

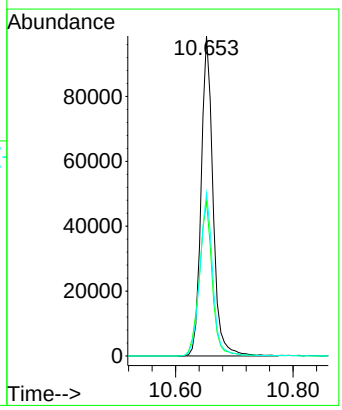


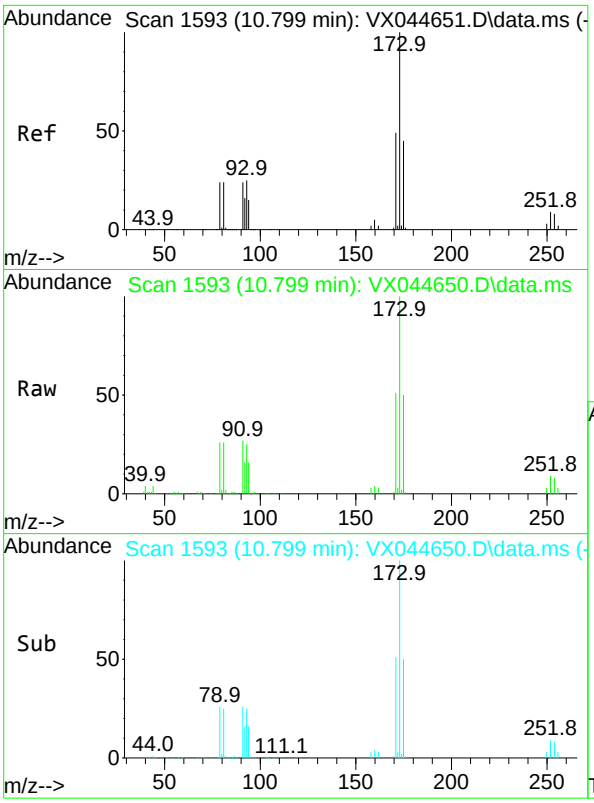




#70
Styrene
Concen: 20.189 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:104 Resp: 138465

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 52.7 | 43.0 | 64.6 |
| 103 | 55.0 | 43.4 | 65.2 |



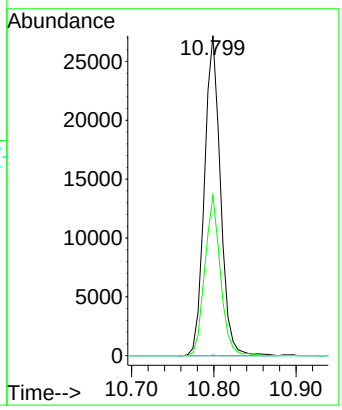


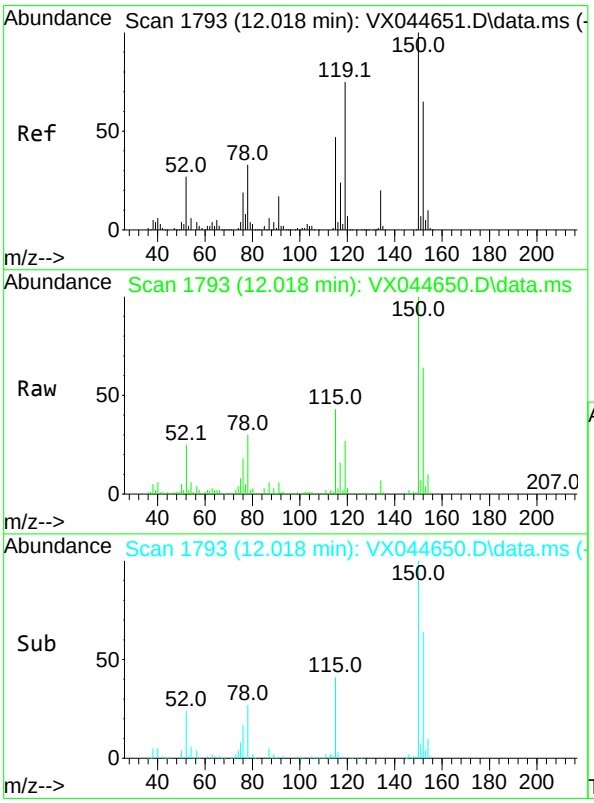

#71
Bromoform
Concen: 19.198 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:173 Resp: 36839

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.8 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1# |

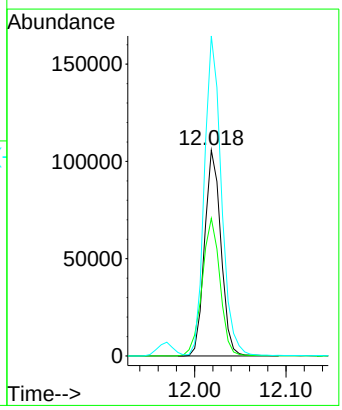


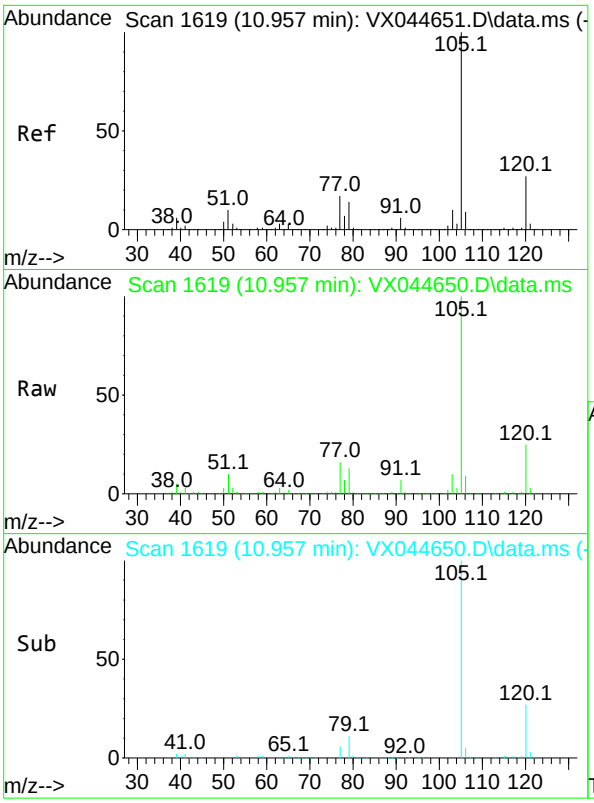




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:152 Resp: 130861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 73.2 | 43.8 | 131.4 |
| 150 | 161.8 | 0.0 | 347.8 |



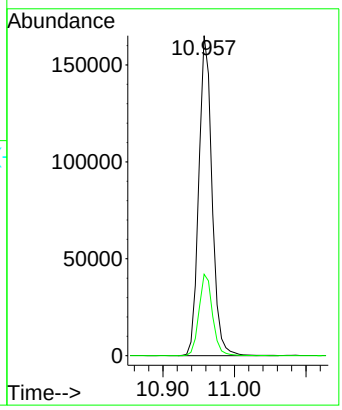


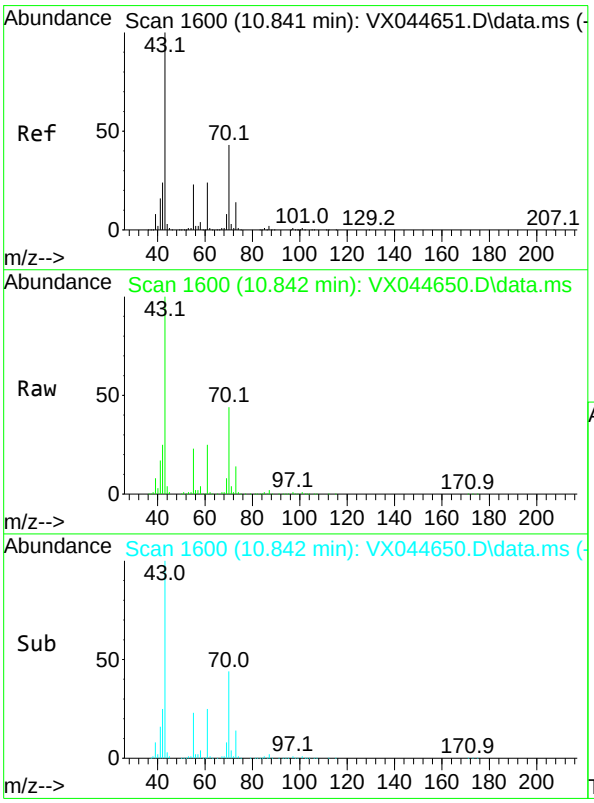

#73
Isopropylbenzene
Concen: 19.797 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 211633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.1 | 13.2 | 39.6 |

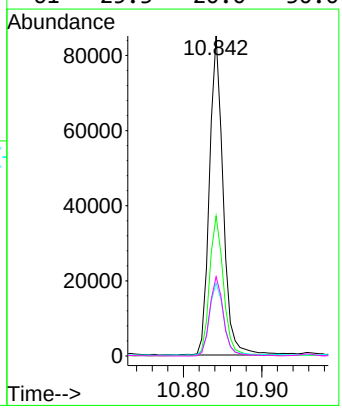


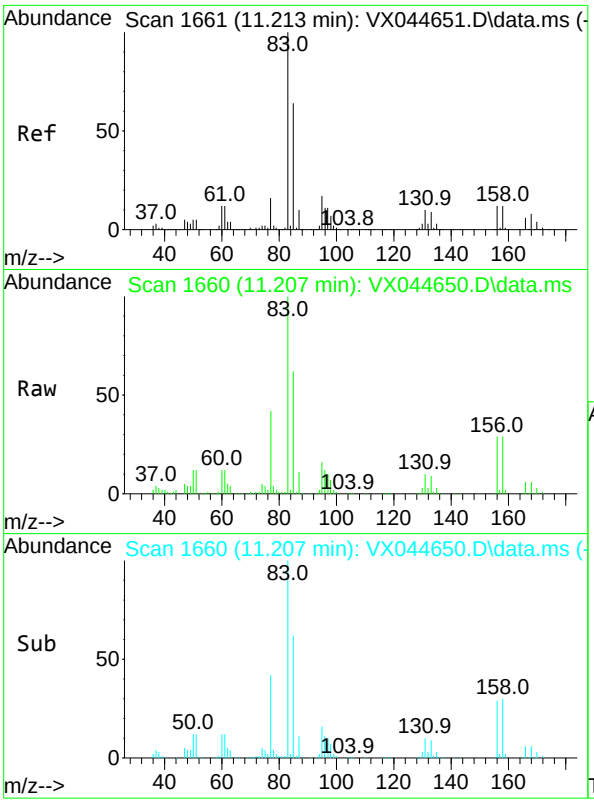




#74
N-amyl acetate
Concen: 19.555 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 43 Resp: 103040

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.6 | 35.2 | 52.8 |
| 55 | 23.6 | 19.0 | 28.4 |
| 61 | 25.3 | 20.0 | 30.0 |



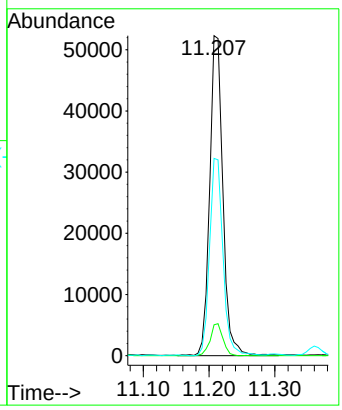


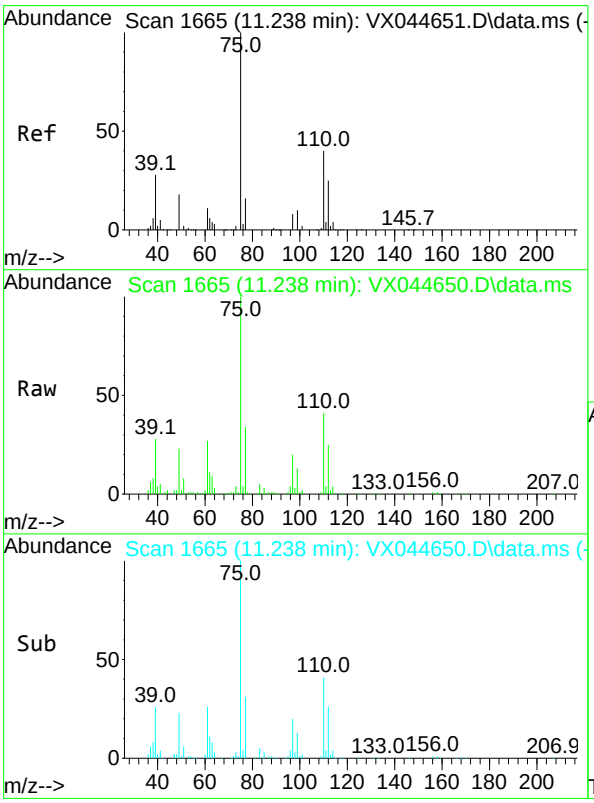

#75
1,1,2,2-Tetrachloroethane
Concen: 19.823 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 83 Resp: 73190

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 5.0 | 14.9 |
| 85 | 62.5 | 32.0 | 96.2 |

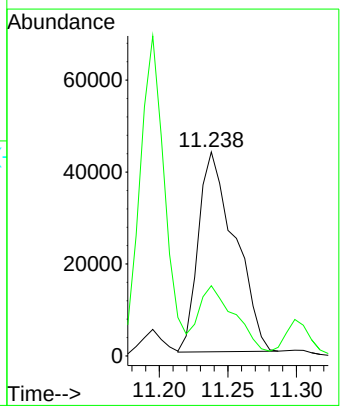


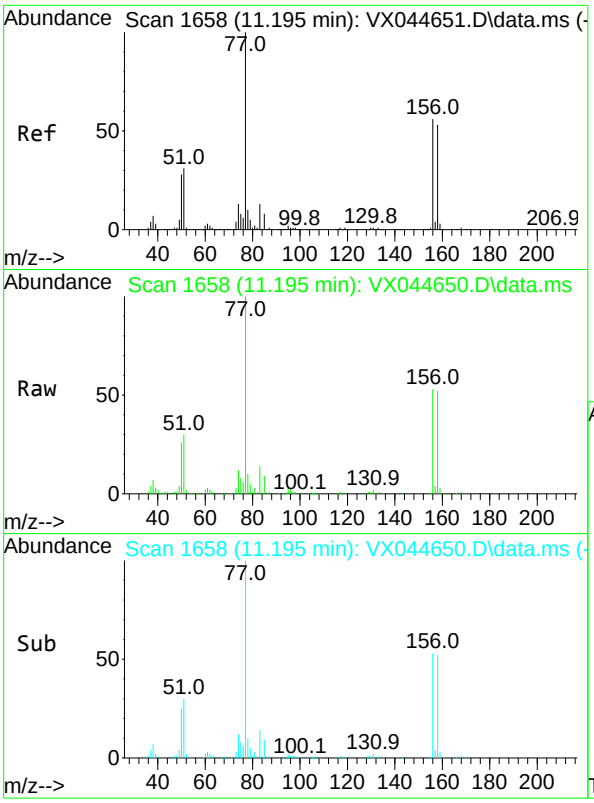




#76
1,2,3-Trichloropropane
Concen: 25.454 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 75 Resp: 80837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 35.5 | 23.4 | 70.2 |



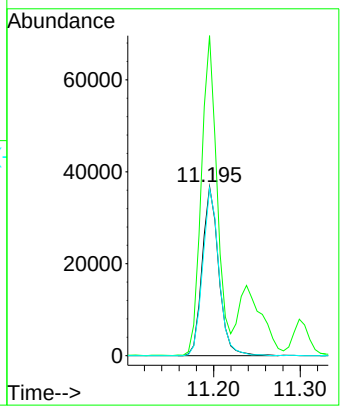


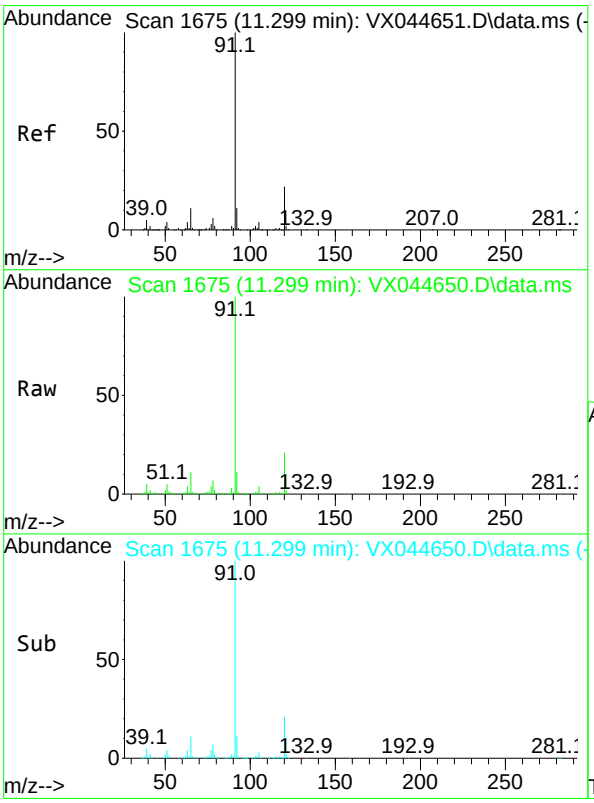

#77
Bromobenzene
Concen: 19.432 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:156 Resp: 48555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 181.1 | 90.3 | 271.0 |
| 158 | 97.5 | 48.4 | 145.3 |

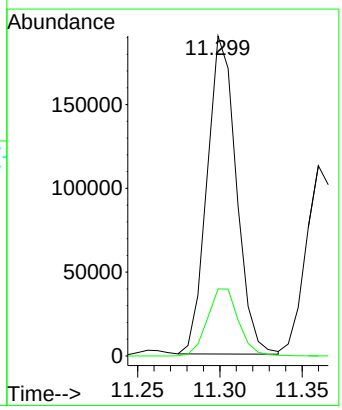


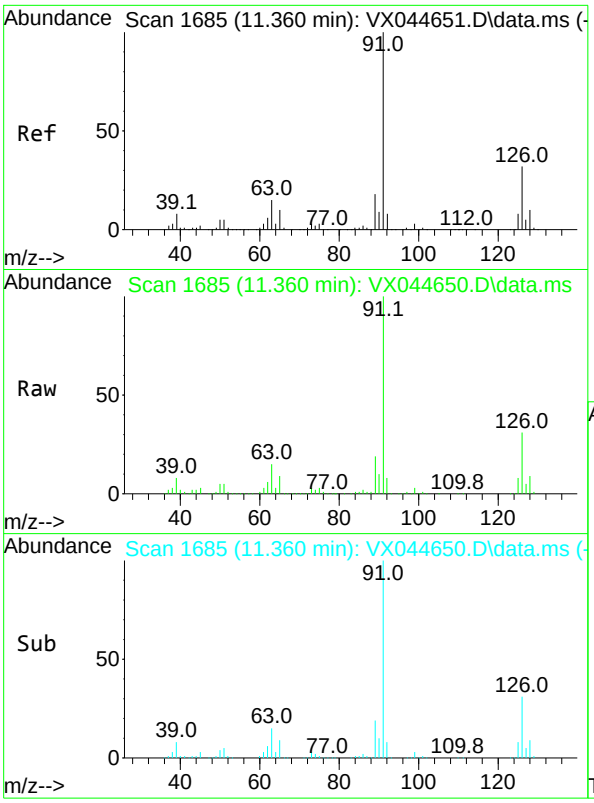




#78
n-propylbenzene
Concen: 19.896 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 91 Resp: 234567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.4 | 34.1 |



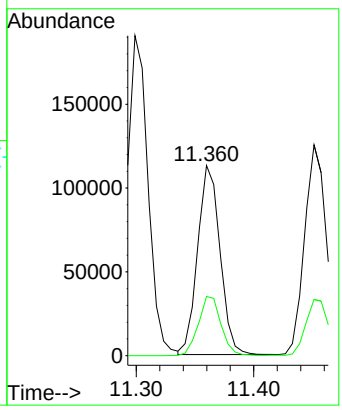


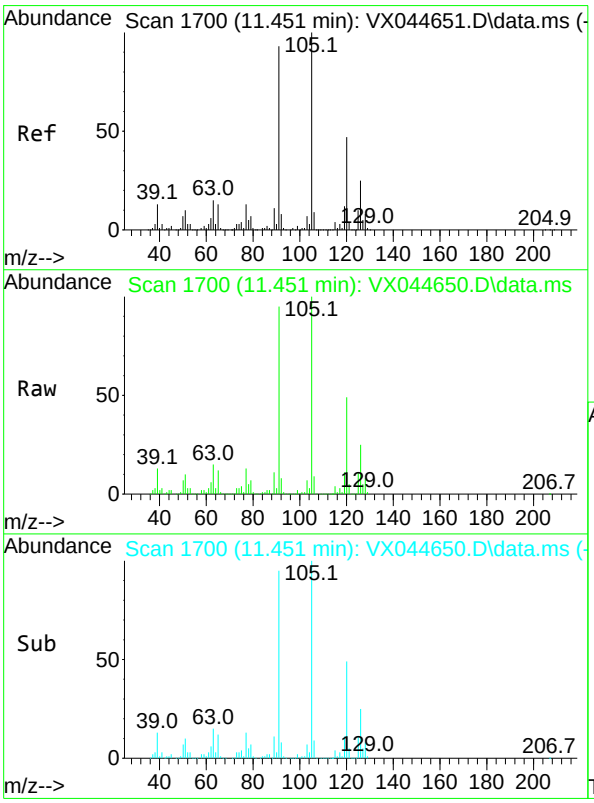

#79
2-Chlorotoluene
Concen: 19.655 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 149688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 31.8 | 16.2 | 48.5 |

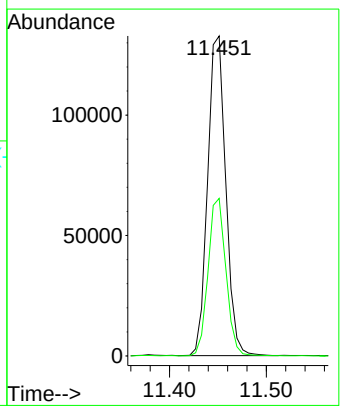


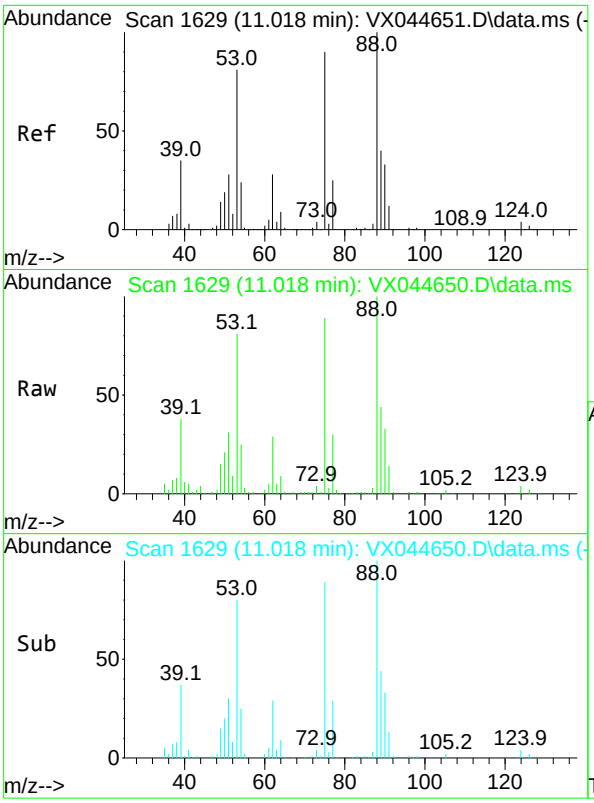




#80
1,3,5-Trimethylbenzene
Concen: 19.919 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:105 Resp: 173348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.5 | 23.7 | 71.1 |



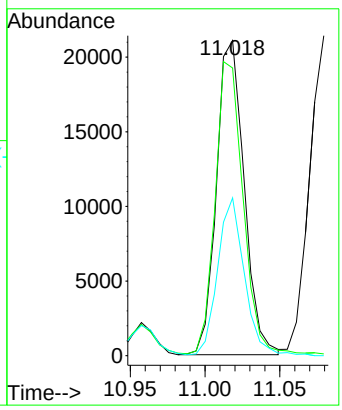


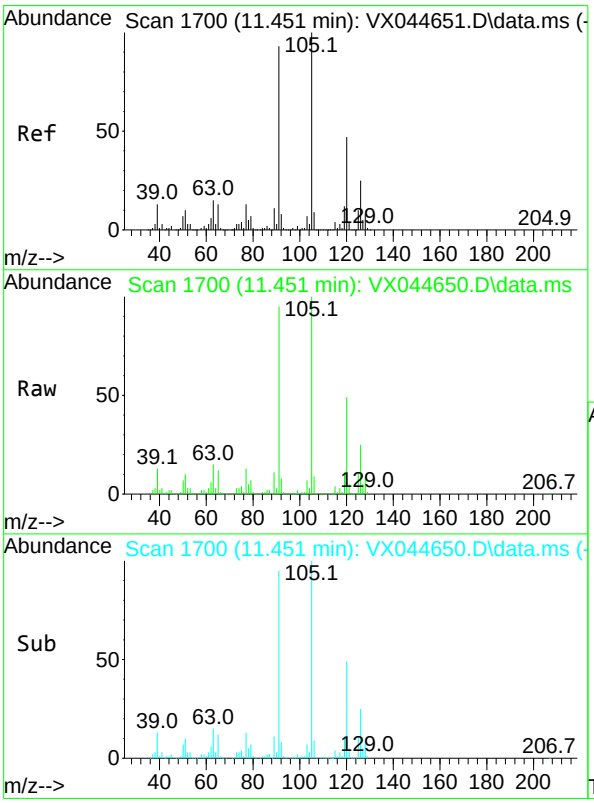

#81
trans-1,4-Dichloro-2-butene
Concen: 19.486 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 75 Resp: 27061

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.5 | 74.3 | 111.5 |
| 89 | 48.8 | 37.4 | 56.0 |

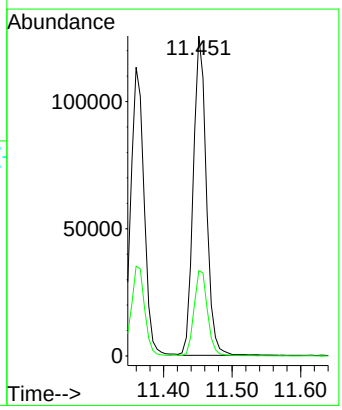


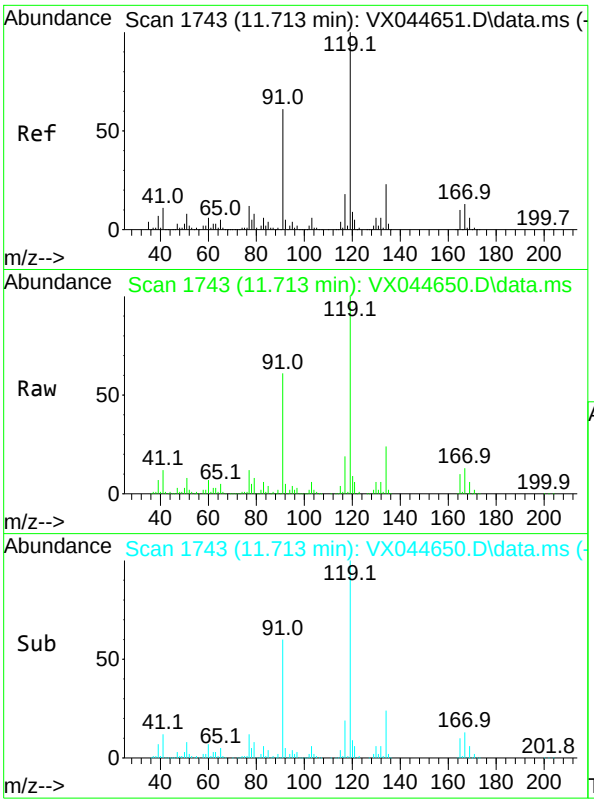




#82
4-Chlorotoluene
Concen: 19.968 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 91 Resp: 166586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.8 | 13.9 | 41.7 |



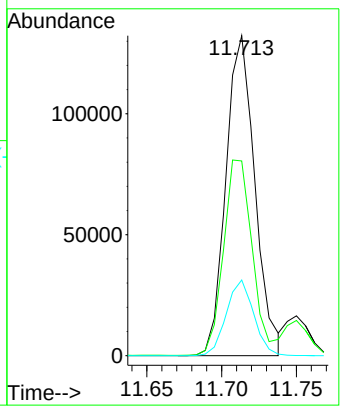


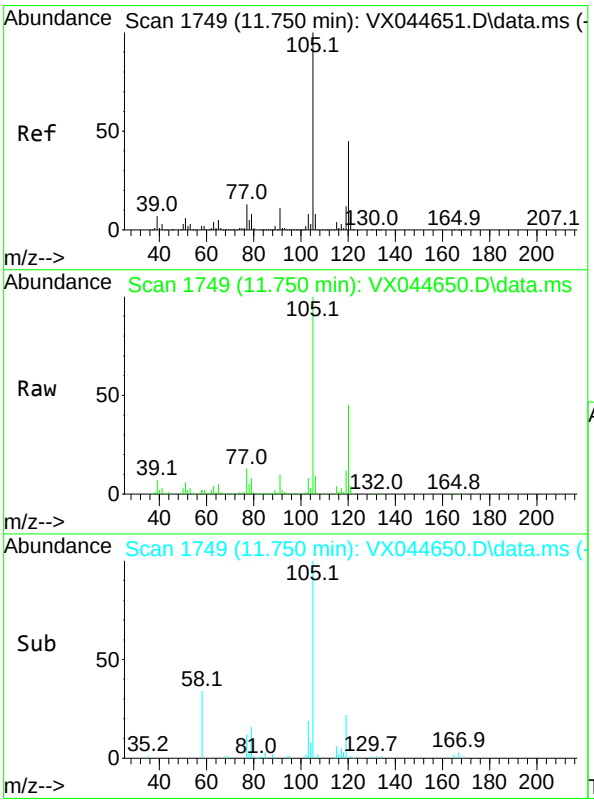

#83
tert-Butylbenzene
Concen: 19.617 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:119 Resp: 178504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 59.8 | 30.0 | 90.0 |
| 134 | 22.3 | 11.2 | 33.5 |

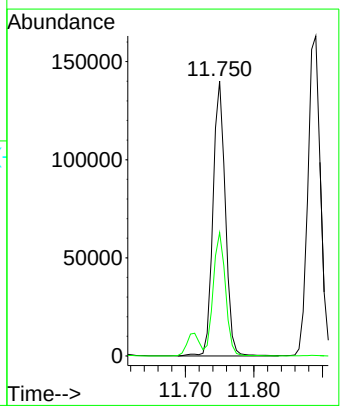


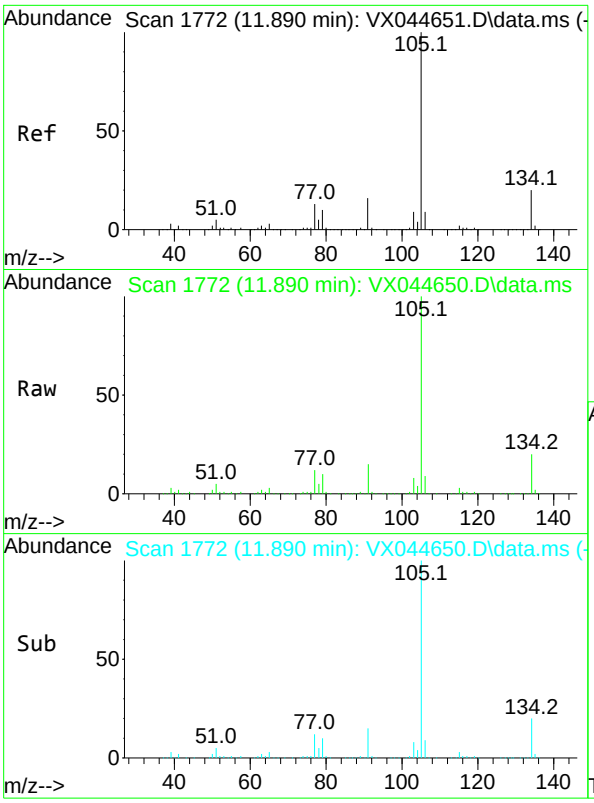




#84
1,2,4-Trimethylbenzene
Concen: 19.807 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:105 Resp: 175164

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.9 | 22.2 | 66.6 |



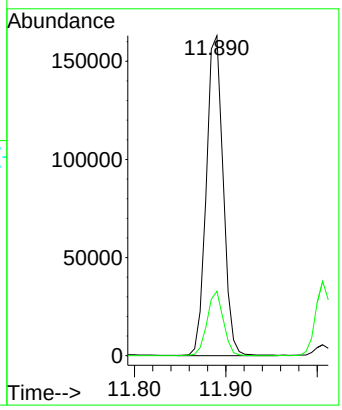


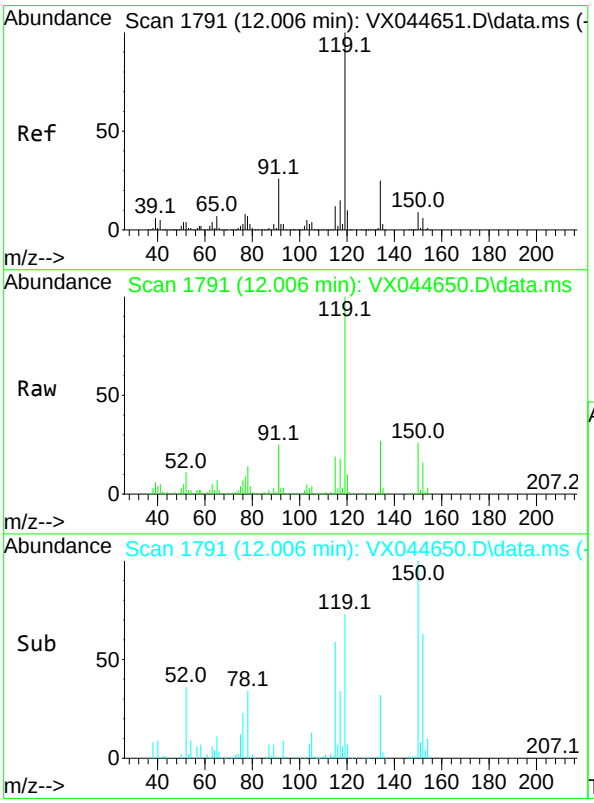

#85
sec-Butylbenzene
Concen: 19.649 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:105 Resp: 208186

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.8 | 29.5 |

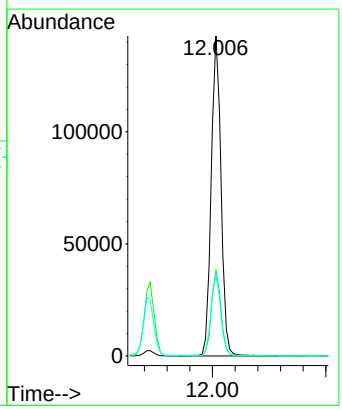


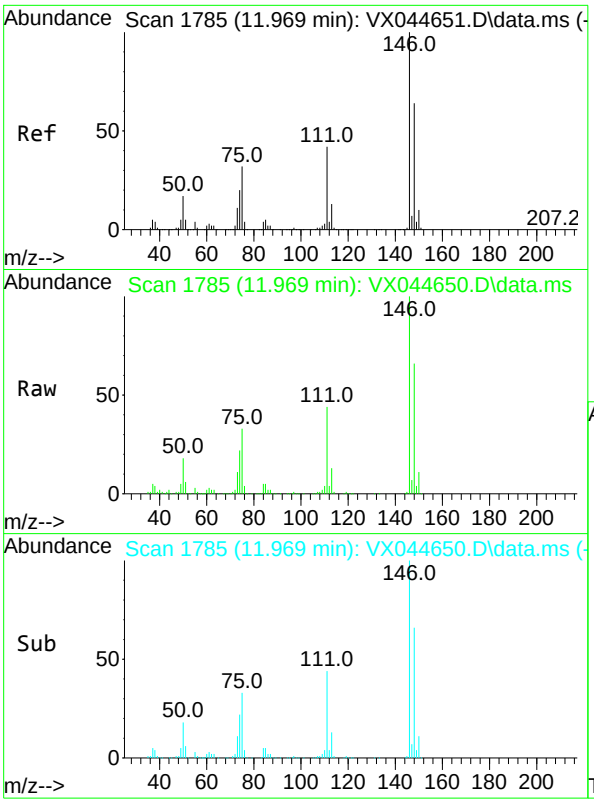




#86
p-Isopropyltoluene
Concen: 19.697 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:119 Resp: 171507

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 12.8 | 38.4 |
| 91 | 25.0 | 12.7 | 38.1 |



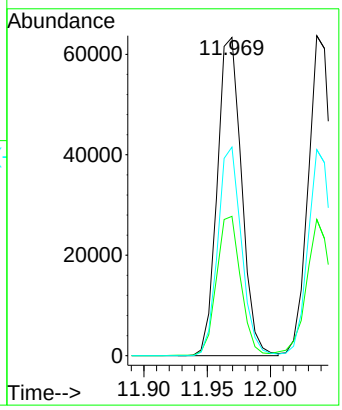


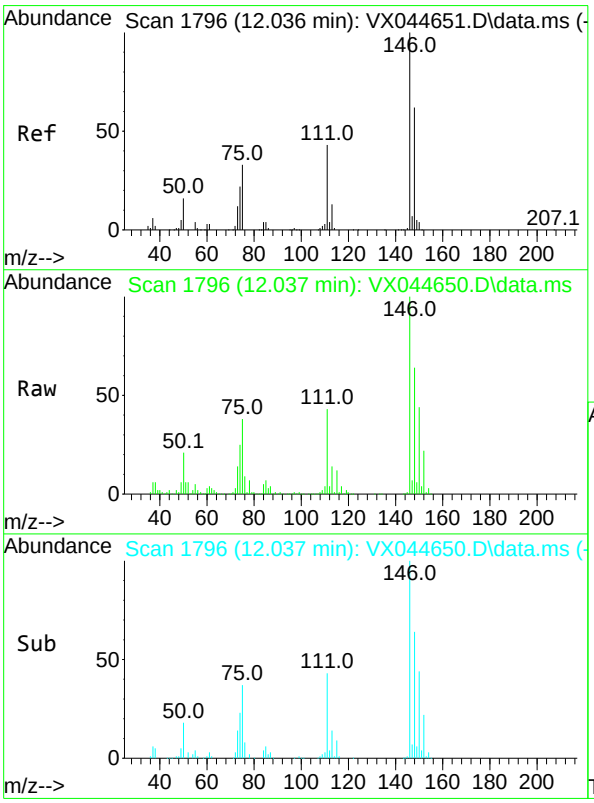

#87
1,3-Dichlorobenzene
Concen: 19.560 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 84759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.9 | 65.7 |
| 148 | 63.9 | 31.8 | 95.4 |

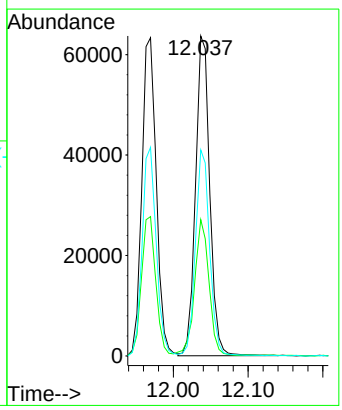


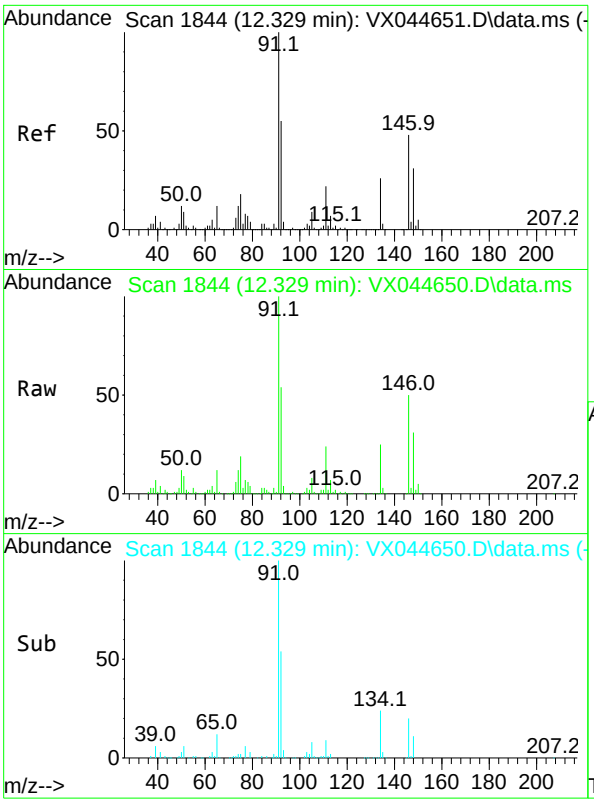




#88
1,4-Dichlorobenzene
Concen: 19.188 ug/l
RT: 12.037 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:146 Resp: 84055

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.8 | 21.5 | 64.5 |
| 148 | 64.1 | 32.1 | 96.5 |



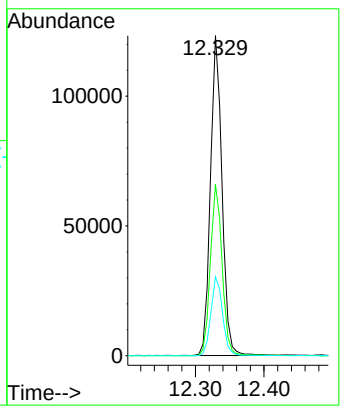


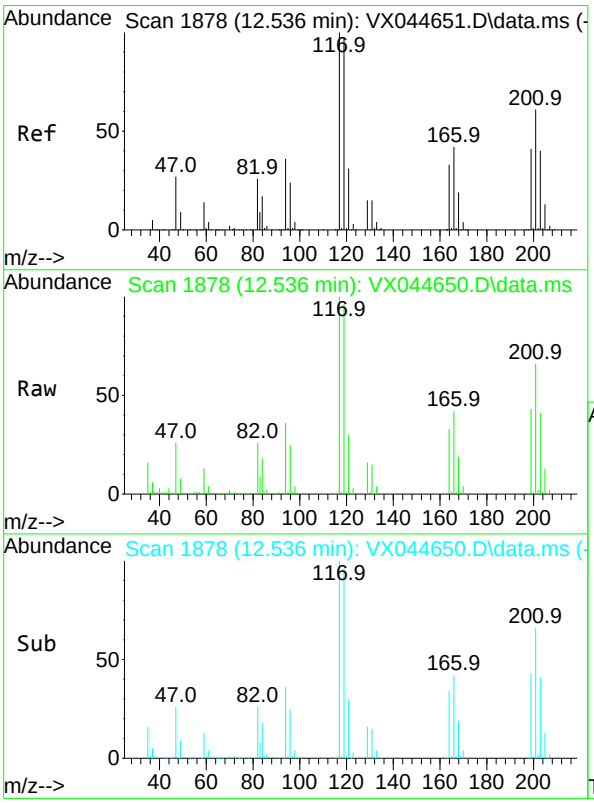

#89
n-Butylbenzene
Concen: 19.391 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion: 91 Resp: 145015

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.4 | 27.4 | 82.0 |
| 134 | 25.0 | 12.8 | 38.3 |

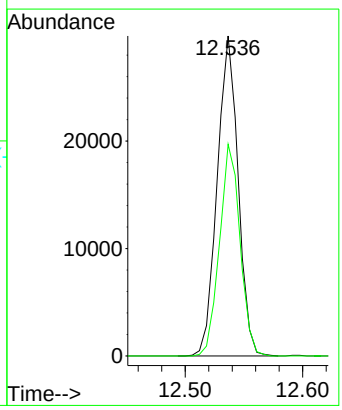


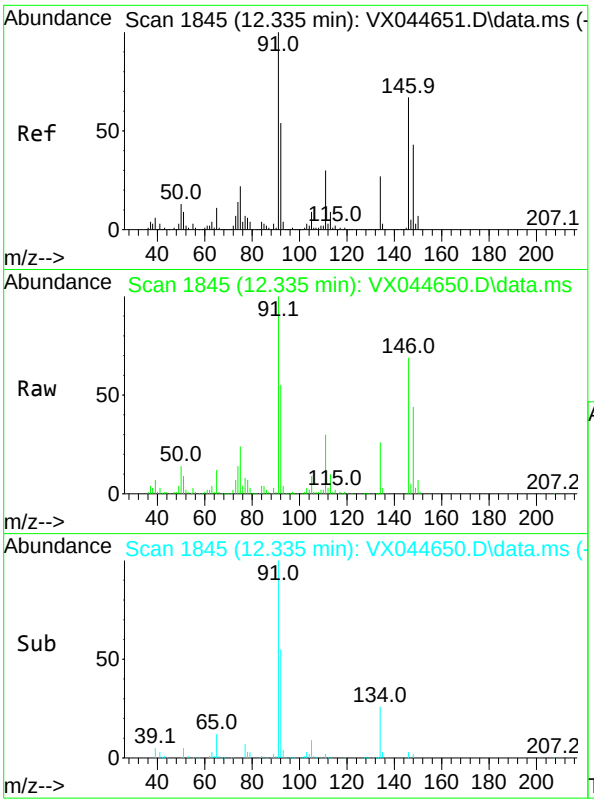




#90
Hexachloroethane
Concen: 18.693 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:117 Resp: 36858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.9 | 32.3 | 96.8 |



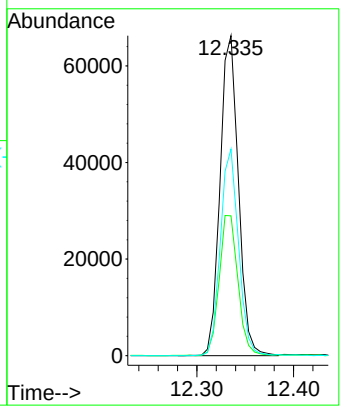


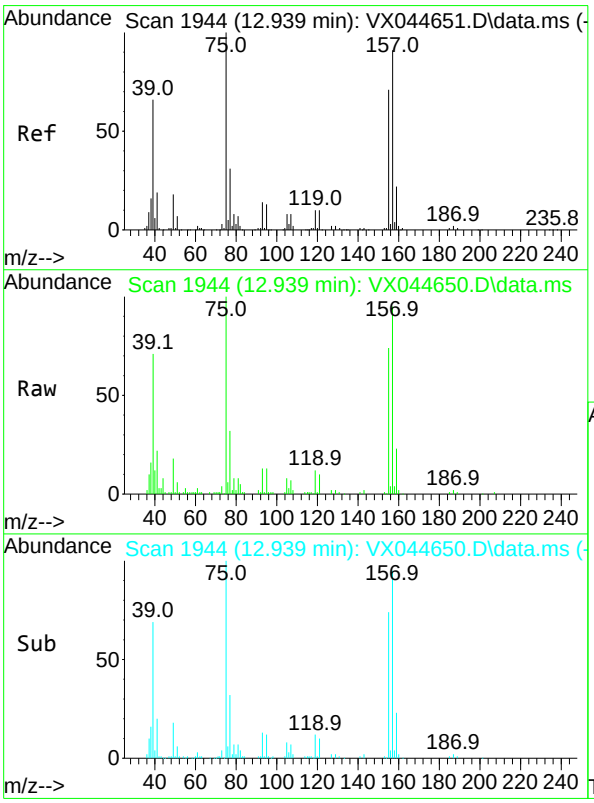

#91
1,2-Dichlorobenzene
Concen: 19.582 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:146 Resp: 87147

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.1 | 22.4 | 67.2 |
| 148 | 64.1 | 31.6 | 94.8 |

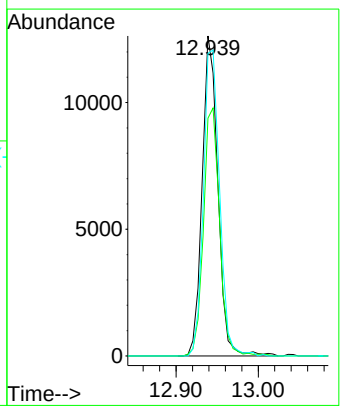


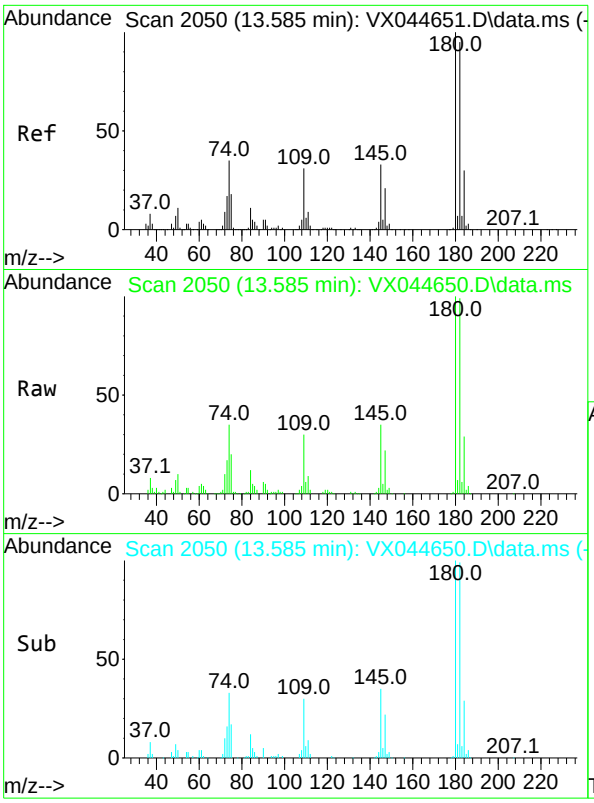




#92
1,2-Dibromo-3-Chloropropane
Concen: 18.572 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion: 75 Resp: 16770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 79.6 | 39.0 | 116.9 |
| 157 | 99.0 | 49.9 | 149.7 |



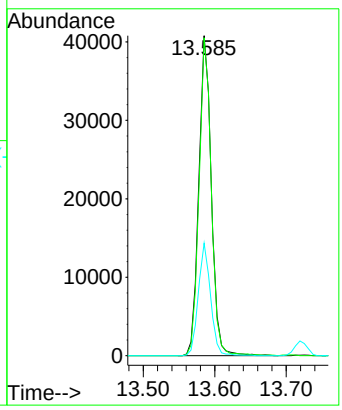


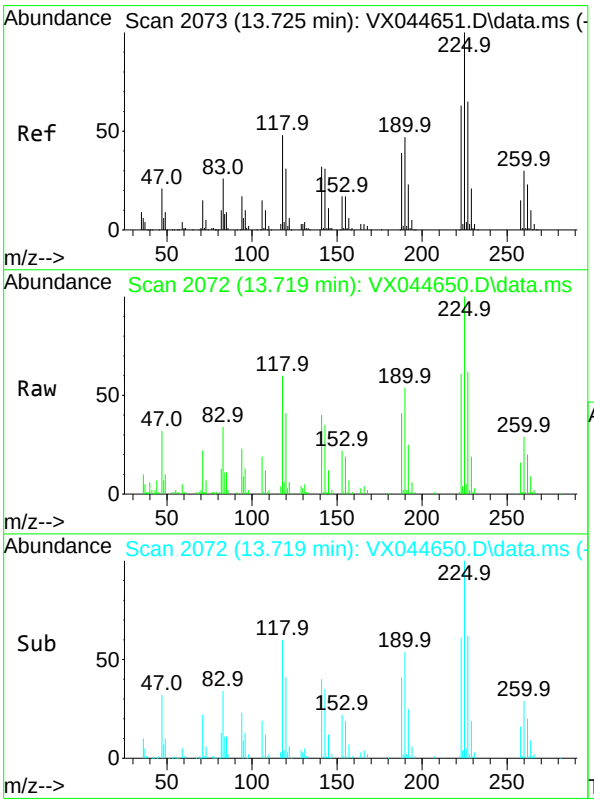

#93
1,2,4-Trichlorobenzene
Concen: 18.595 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:180 Resp: 49471

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 97.1 | 47.4 | 142.2 |
| 145 | 34.5 | 16.7 | 50.1 |

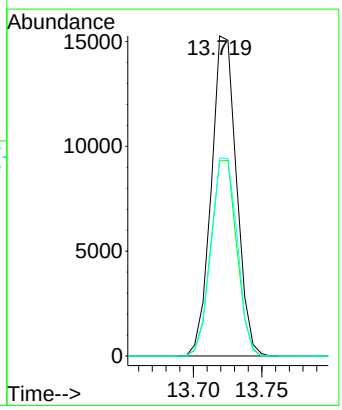


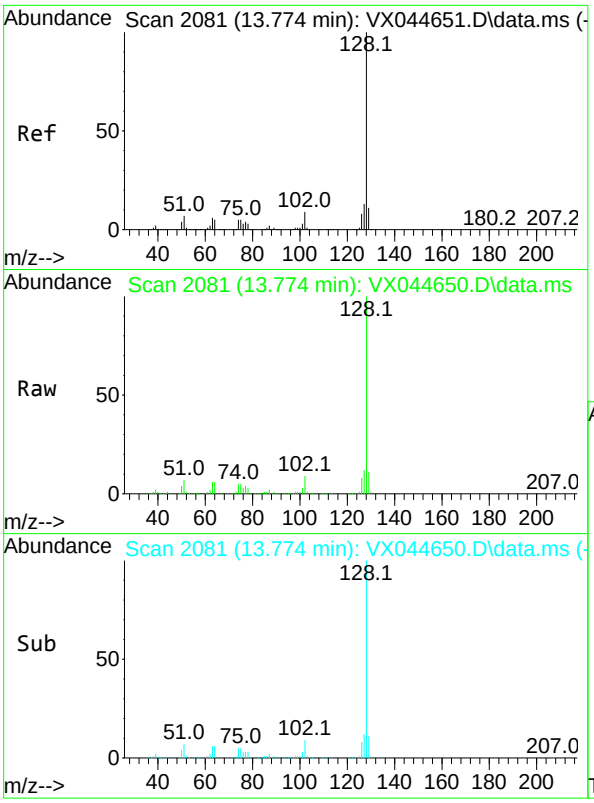




#94
Hexachlorobutadiene
Concen: 18.672 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.006 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:225 Resp: 19513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.8 | 31.9 | 95.7 |
| 227 | 64.4 | 31.8 | 95.4 |



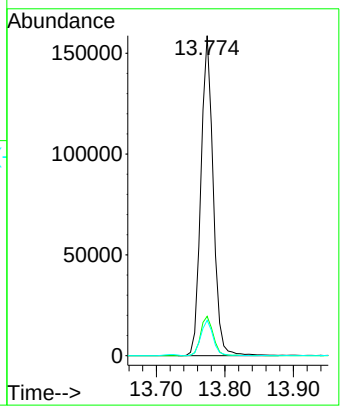


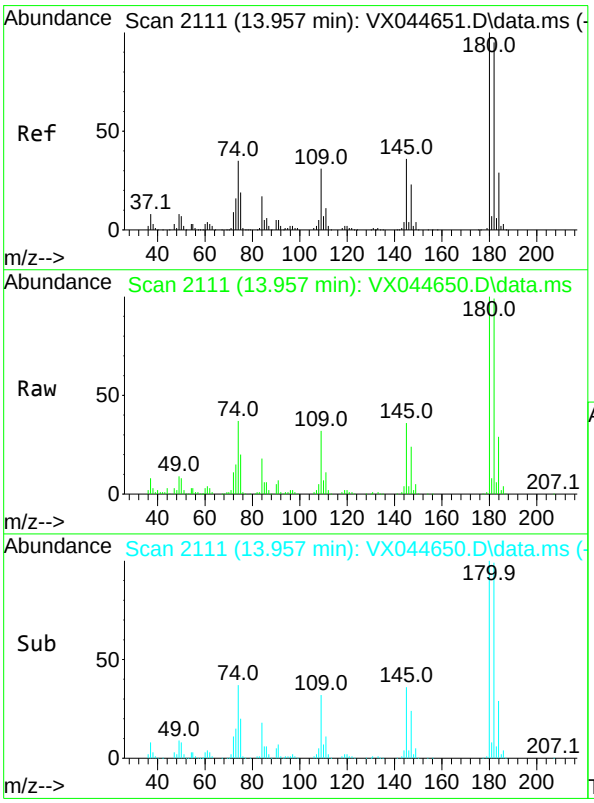

#95
Naphthalene
Concen: 19.372 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC020

Tgt Ion:128 Resp: 198769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.3 | 15.5 |
| 129 | 11.1 | 8.7 | 13.1 |

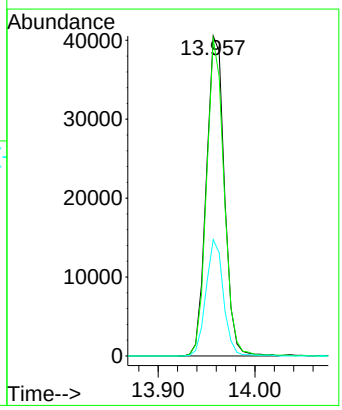



#96
1,2,3-Trichlorobenzene
Concen: 19.093 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044650.D
Acq: 15 Jan 2025 11:40

Tgt Ion:180 Resp: 52651

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.9 | 47.2 | 141.6 |
| 145 | 35.2 | 17.5 | 52.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044651.D
Acq On : 15 Jan 2025 12:02
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Quant Time: Jan 30 04:56:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 191095 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 351701 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 301141 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 127832 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 142316 | 49.339 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 98.680% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 111739 | 50.011 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.020% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 390660 | 50.145 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.300% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 148223 | 51.037 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 102.080% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 129814 | 50.482 | ug/l | 100 |
| 3) Chloromethane | 1.300 | 50 | 135661 | 48.786 | ug/l | 100 |
| 4) Vinyl Chloride | 1.374 | 62 | 134180 | 48.836 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 32585 | 49.668 | ug/l | 100 |
| 6) Chloroethane | 1.660 | 64 | 22356 | 44.371 | ug/l | 100 |
| 7) Trichlorofluoromethane | 1.867 | 101 | 146280 | 48.172 | ug/l | 100 |
| 8) Diethyl Ether | 2.136 | 74 | 55843 | 45.569 | ug/l | 100 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 105786 | 46.343 | ug/l | 100 |
| 10) Methyl Iodide | 2.440 | 142 | 154347 | 49.525 | ug/l | 100 |
| 11) Tert butyl alcohol | 2.983 | 59 | 68449 | 106.447 | ug/l # | 84 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 108167 | 48.342 | ug/l | 100 |
| 13) Acrolein | 2.239 | 56 | 64703 | 213.821 | ug/l | 100 |
| 14) Allyl chloride | 2.654 | 41 | 200446 | 46.011 | ug/l | 100 |
| 15) Acrylonitrile | 3.062 | 53 | 298629 | 236.777 | ug/l | 100 |
| 16) Acetone | 2.386 | 43 | 255513 | 223.898 | ug/l | 100 |
| 17) Carbon Disulfide | 2.501 | 76 | 295098 | 48.333 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 168213 | 47.777 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 388306 | 47.913 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 124271 | 46.761 | ug/l | 100 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 108489 | 46.441 | ug/l | 100 |
| 22) Diisopropyl ether | 3.757 | 45 | 363224 | 47.964 | ug/l | 100 |
| 23) Vinyl Acetate | 3.715 | 43 | 1576614 | 237.862 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 215178 | 47.915 | ug/l | 100 |
| 25) 2-Butanone | 4.556 | 43 | 407104 | 239.931 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 201388 | 46.271 | ug/l | 100 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 137091 | 46.654 | ug/l | 100 |
| 28) Bromochloromethane | 4.891 | 49 | 101453 | 48.346 | ug/l | 100 |
| 29) Tetrahydrofuran | 5.001 | 42 | 256051 | 233.952 | ug/l | 100 |
| 30) Chloroform | 5.086 | 83 | 218193 | 48.144 | ug/l | 100 |
| 31) Cyclohexane | 5.458 | 56 | 177904 | 48.981 | ug/l | 100 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 190478 | 45.718 | ug/l | 100 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 143445 | 46.120 | ug/l | 100 |
| 37) Ethyl Acetate | 4.708 | 43 | 162853 | 49.168 | ug/l | 100 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 161882 | 46.273 | ug/l | 100 |
| 39) Methylcyclohexane | 7.373 | 83 | 193759 | 46.929 | ug/l | 100 |
| 40) Benzene | 6.031 | 78 | 459433 | 47.670 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044651.D
Acq On : 15 Jan 2025 12:02
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Quant Time: Jan 30 04:56:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 89498 | 46.371 | ug/l | 100 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 167878 | 47.725 | ug/l | 100 |
| 43) Isopropyl Acetate | 6.336 | 43 | 286693 | 47.053 | ug/l | 100 |
| 44) Trichloroethene | 7.116 | 130 | 111112 | 47.956 | ug/l | 100 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 115621 | 47.660 | ug/l | 100 |
| 46) Dibromomethane | 7.574 | 93 | 86455 | 46.813 | ug/l | 100 |
| 47) Bromodichloromethane | 7.818 | 83 | 178531 | 47.138 | ug/l | 100 |
| 48) Methyl methacrylate | 7.690 | 41 | 140450 | 49.659 | ug/l | 100 |
| 49) 1,4-Dioxane | 7.665 | 88 | 55679 | 943.583 | ug/l | 100 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 790152 | 234.662 | ug/l | 100 |
| 52) Toluene | 8.714 | 92 | 283156 | 48.001 | ug/l | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 191876 | 49.036 | ug/l | 100 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 201804 | 47.563 | ug/l | 100 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 112274 | 47.043 | ug/l | 100 |
| 56) Ethyl methacrylate | 9.116 | 69 | 198422 | 48.353 | ug/l | 100 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 195182 | 48.025 | ug/l | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 479521 | 238.018 | ug/l | 100 |
| 59) 2-Hexanone | 9.433 | 43 | 580029 | 234.142 | ug/l | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 133941 | 47.816 | ug/l | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 118382 | 47.331 | ug/l | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 89149 | 47.145 | ug/l | 100 |
| 65) Chlorobenzene | 10.073 | 112 | 303658 | 47.474 | ug/l | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 110395 | 47.490 | ug/l | 100 |
| 67) Ethyl Benzene | 10.189 | 91 | 535714 | 48.000 | ug/l | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 395084 | 95.393 | ug/l | 100 |
| 69) o-Xylene | 10.640 | 106 | 200396 | 47.845 | ug/l | 100 |
| 70) Styrene | 10.652 | 104 | 327844 | 48.481 | ug/l | 100 |
| 71) Bromoform | 10.799 | 173 | 90837 | 48.011 | ug/l | 100 |
| 73) Isopropylbenzene | 10.957 | 105 | 500669 | 47.943 | ug/l | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 242893 | 47.188 | ug/l | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 166468 | 46.155 | ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 196621 | 63.379 | ug/l | 80 |
| 77) Bromobenzene | 11.195 | 156 | 115377 | 47.268 | ug/l | 100 |
| 78) n-propylbenzene | 11.299 | 91 | 561396 | 48.746 | ug/l | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 353178 | 47.474 | ug/l | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 407362 | 47.918 | ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 65476 | 48.266 | ug/l | 100 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 393120 | 48.238 | ug/l | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 422348 | 47.513 | ug/l | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 410477 | 47.515 | ug/l | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 497964 | 48.113 | ug/l | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 411853 | 48.421 | ug/l | 100 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 206233 | 48.720 | ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 201574 | 47.105 | ug/l | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 358698 | 49.100 | ug/l | 100 |
| 90) Hexachloroethane | 12.536 | 117 | 88230 | 45.808 | ug/l | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 207903 | 47.824 | ug/l | 100 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 39659 | 44.962 | ug/l | 100 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 131779 | 50.708 | ug/l | 100 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 50255 | 49.230 | ug/l | 100 |
| 95) Naphthalene | 13.774 | 128 | 487525 | 48.639 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 134816 | 50.047 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044651.D
Acq On : 15 Jan 2025 12:02
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Quant Time: Jan 30 04:56:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

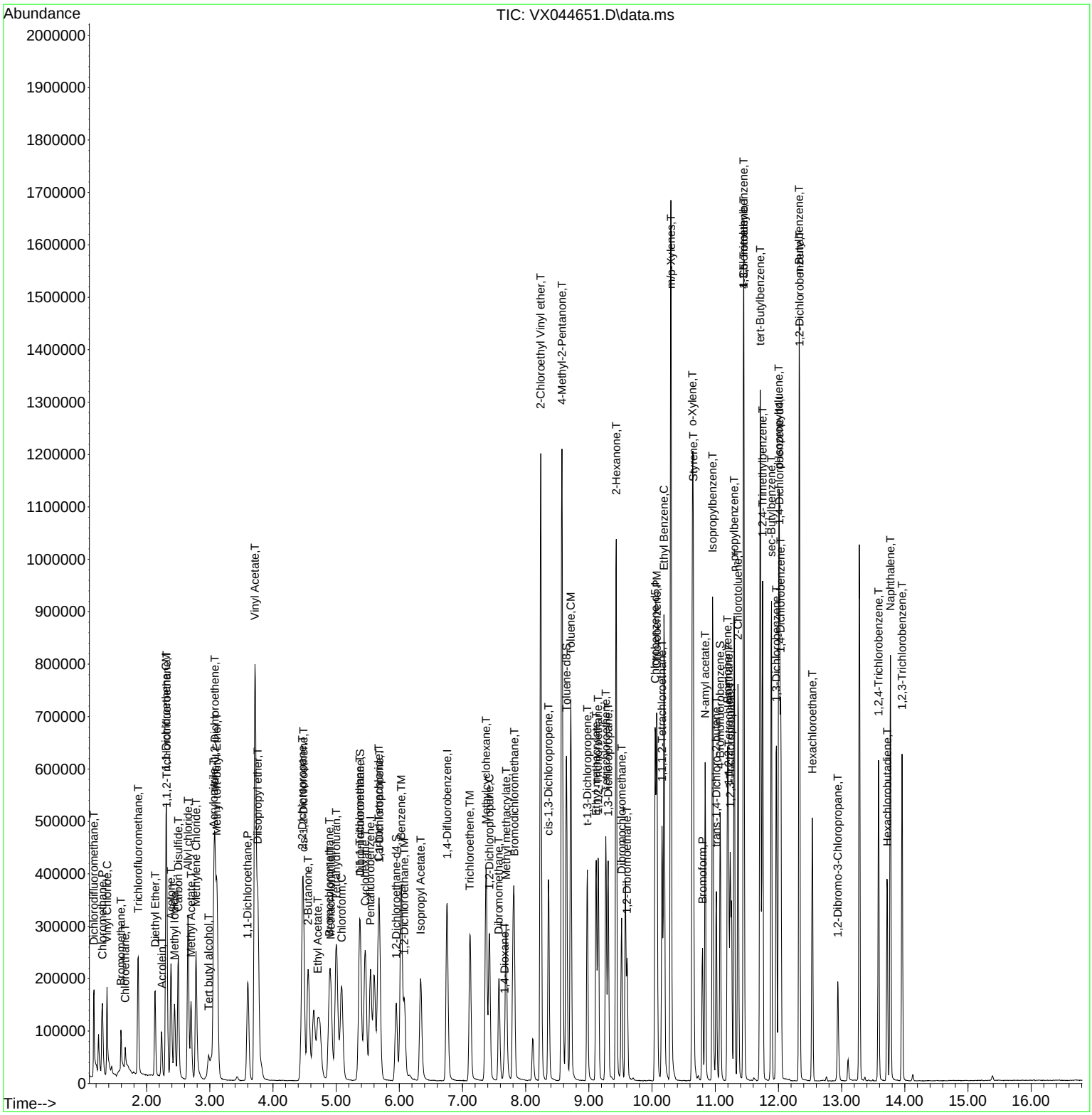
(#) = qualifier out of range (m) = manual integration (+) = signals summed

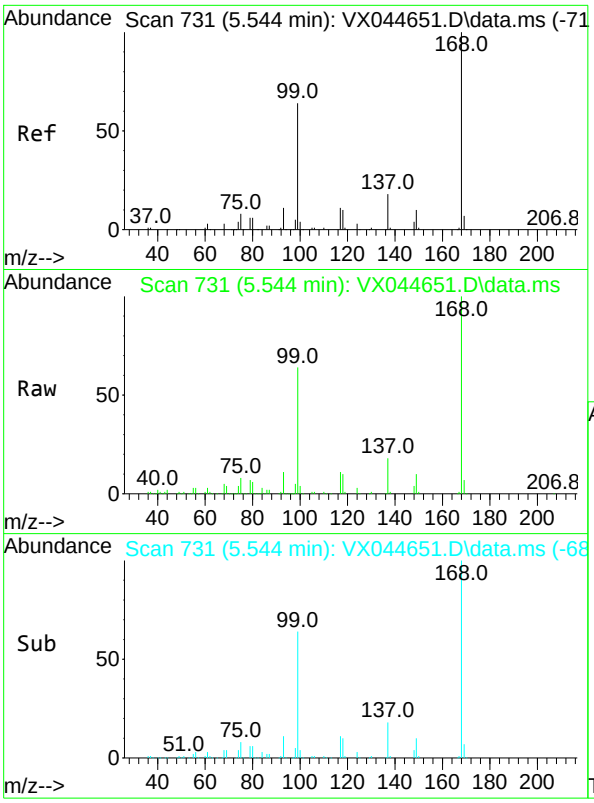
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044651.D
Acq On : 15 Jan 2025 12:02
Operator : JC/MD
Sample : VSTDICCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Quant Time: Jan 30 04:56:09 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



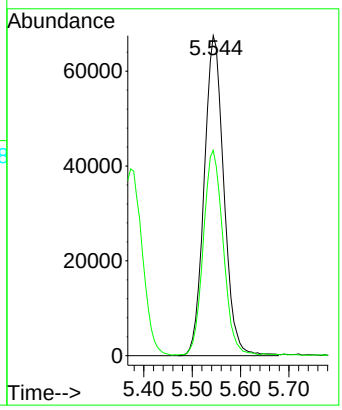


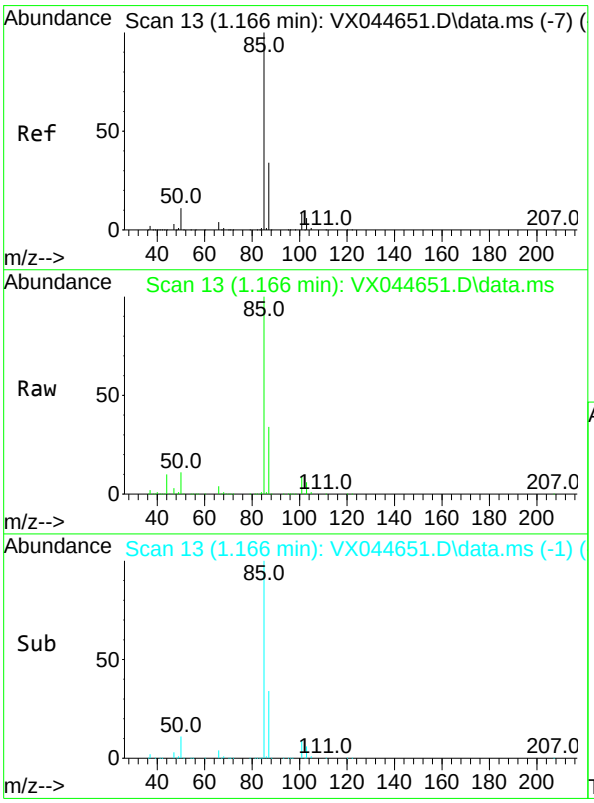

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:168 Resp: 191095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 63.9 | 51.1 | 76.7 |

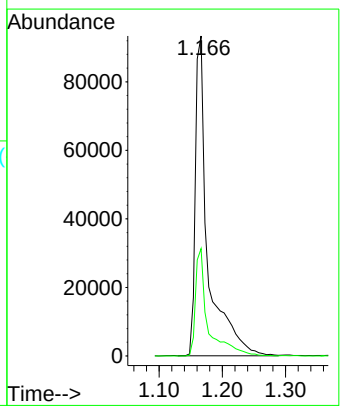


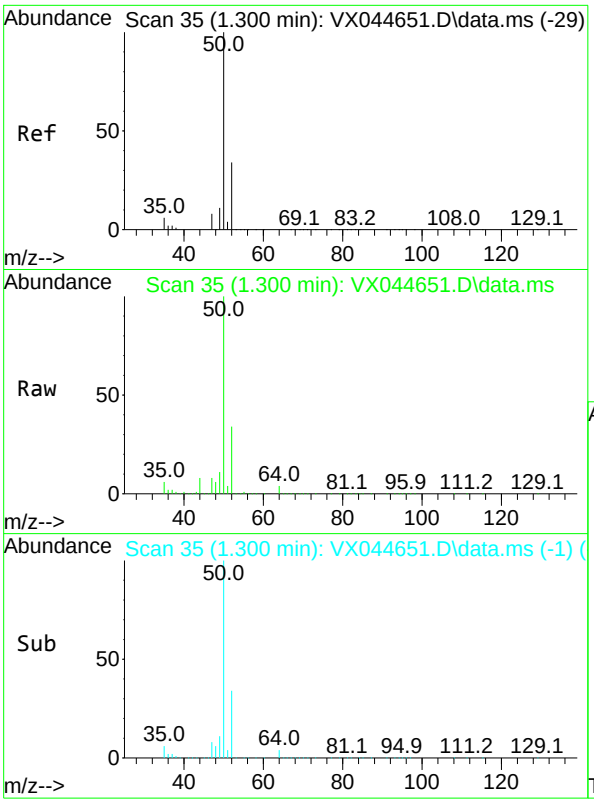




#2
Dichlorodifluoromethane
Concen: 50.482 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 85 Resp: 129814

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.6 | 16.8 | 50.4 |



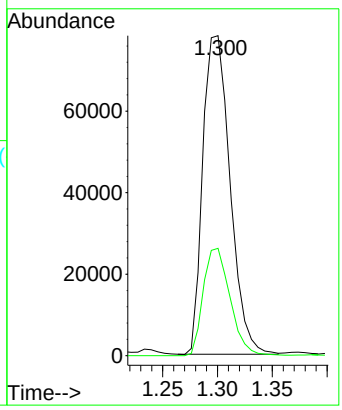


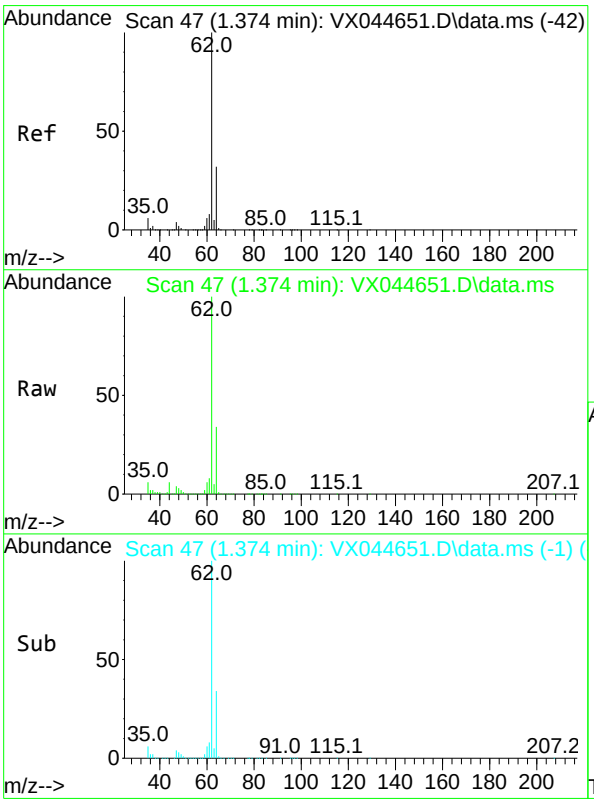

#3
Chloromethane
Concen: 48.786 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 50 Resp: 135661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.7 | 27.0 | 40.4 |

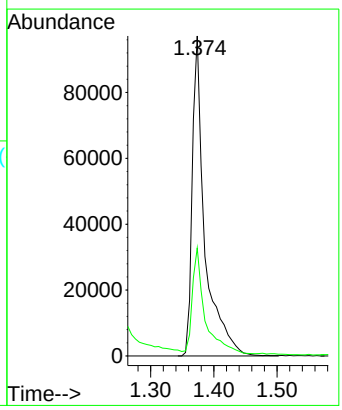


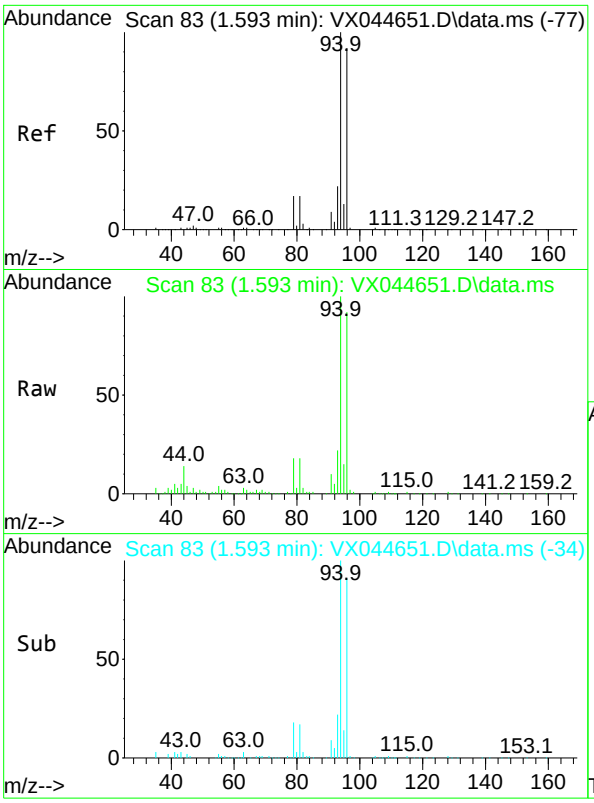




#4
Vinyl Chloride
Concen: 48.836 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 62 Resp: 134180

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.2 | 26.6 | 39.8 |



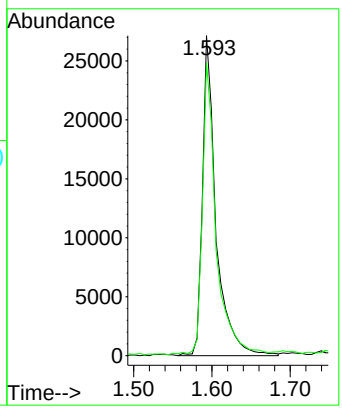


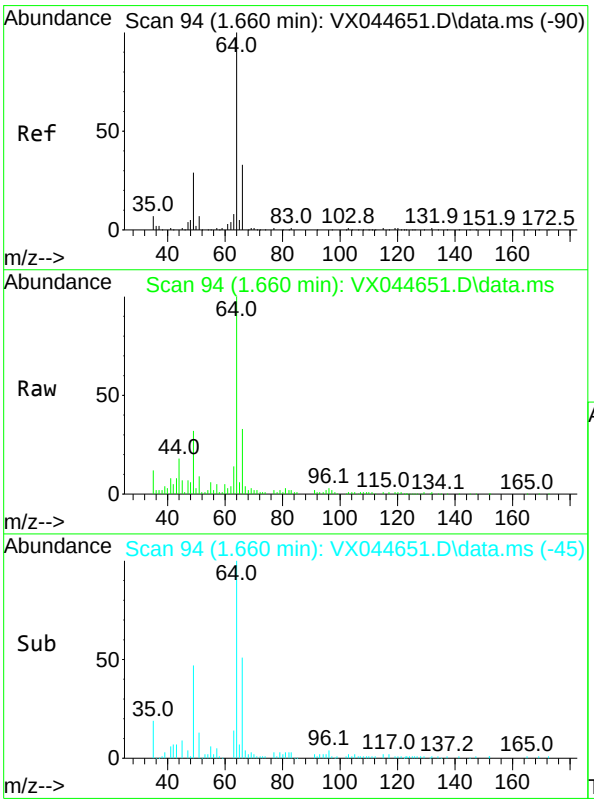

#5
Bromomethane
Concen: 49.668 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 94 Resp: 32585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 91.0 | 72.8 | 109.2 |

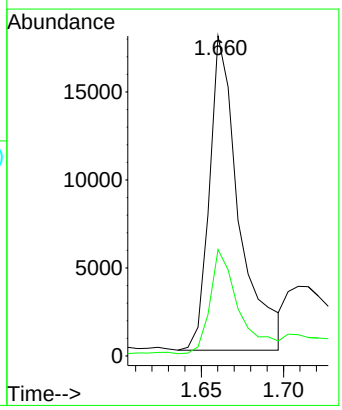


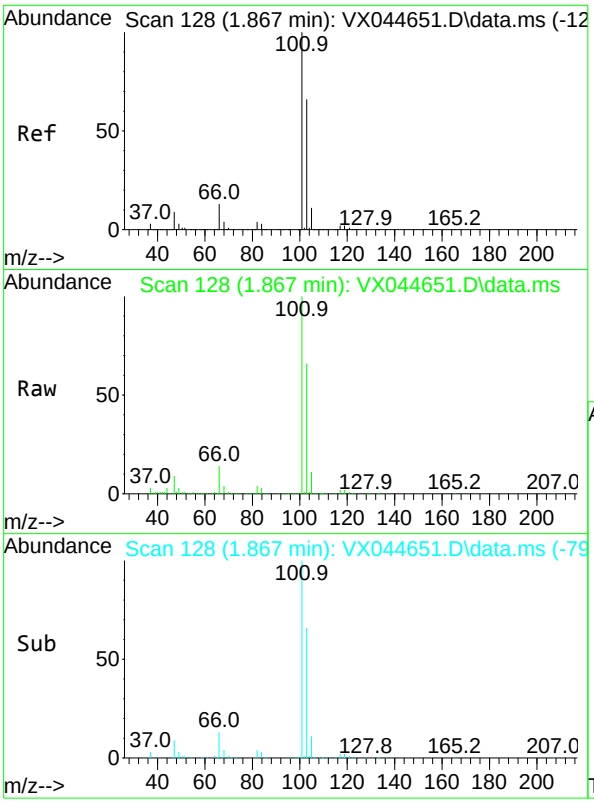




#6
Chloroethane
Concen: 44.371 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 64 Resp: 22356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 33.2 | 26.6 | 39.8 |



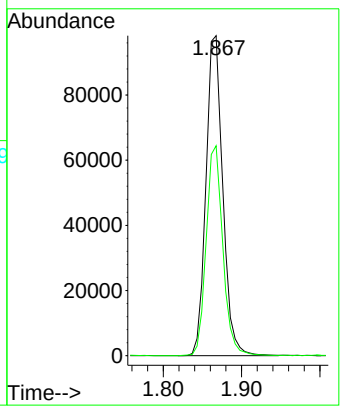


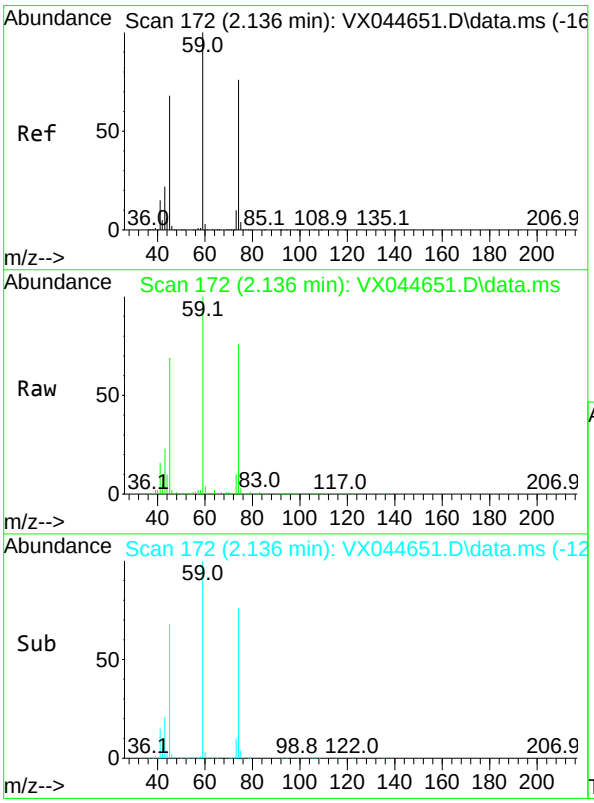

#7
Trichlorofluoromethane
Concen: 48.172 ug/l
RT: 1.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 146280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.6 | 52.5 | 78.7 |

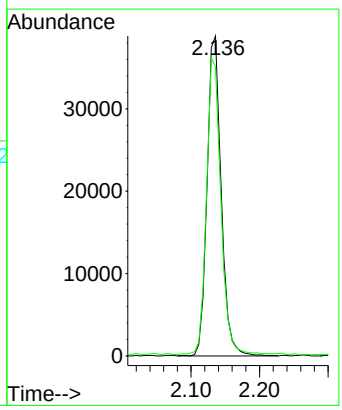


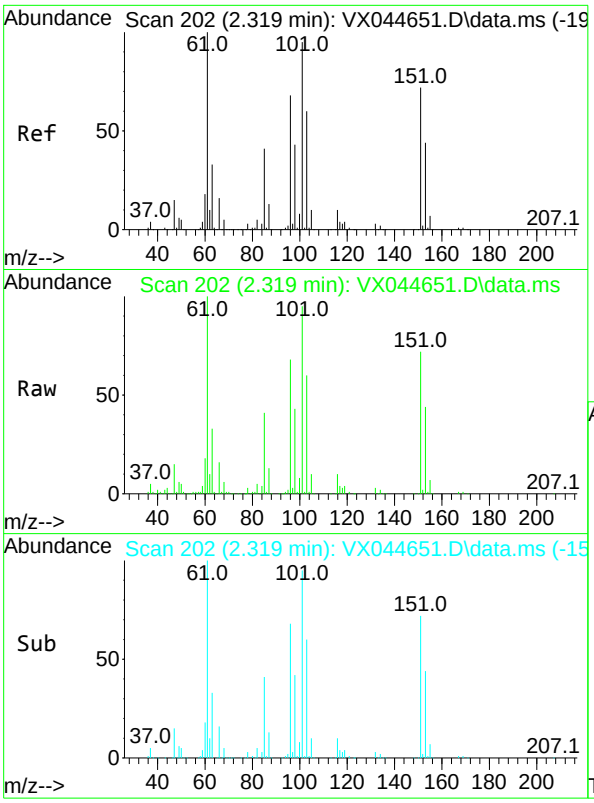




#8
Diethyl Ether
Concen: 45.569 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 74 Resp: 55843

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 94.2 | 47.1 | 141.3 |



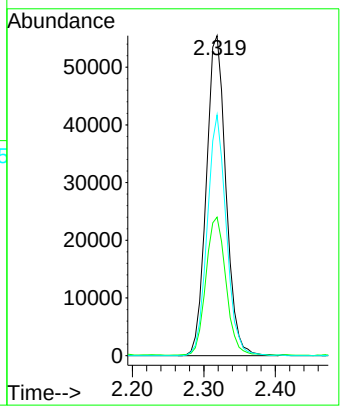


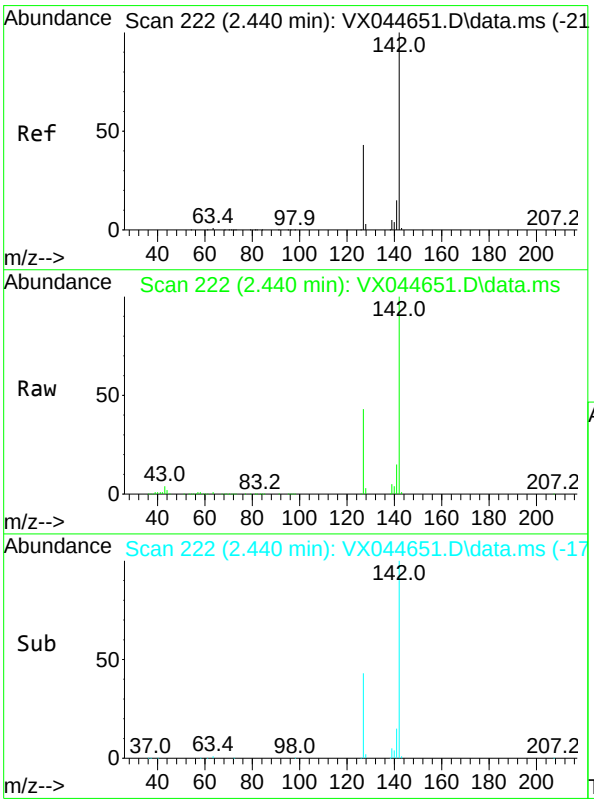

#9
1,1,2-Trichlorotrifluoroethane
Concen: 46.343 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:101 Resp: 105786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.1 | 35.3 | 52.9 |
| 151 | 72.8 | 58.2 | 87.4 |

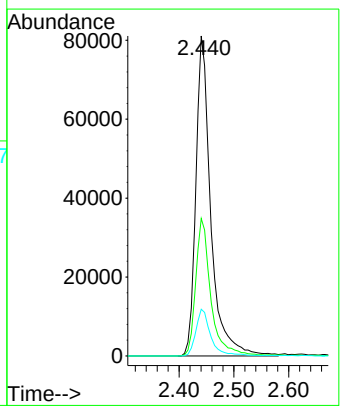


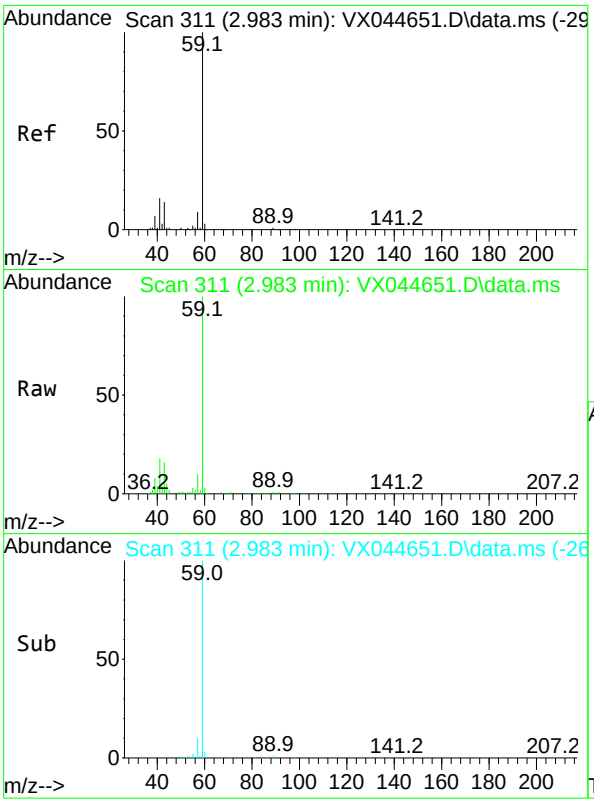




#10
Methyl Iodide
Concen: 49.525 ug/l
RT: 2.440 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:142 Resp: 154347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.7 | 35.0 | 52.4 |
| 141 | 14.6 | 11.7 | 17.5 |



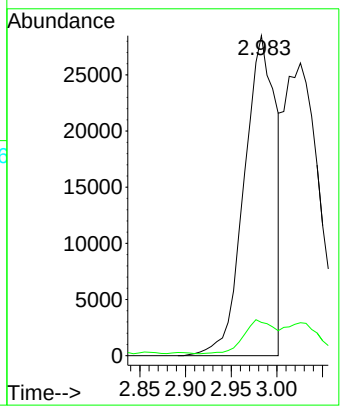


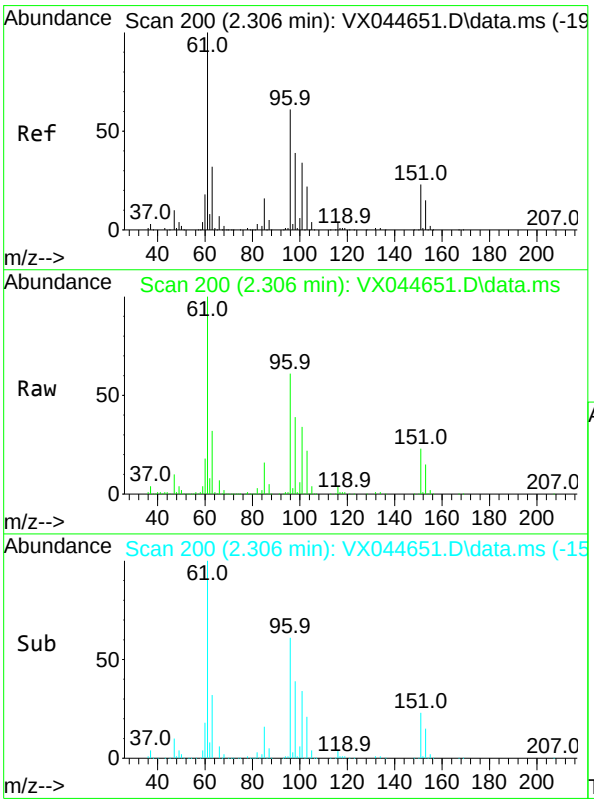

#11
Tert butyl alcohol
Concen: 106.447 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 59 Resp: 68449

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 3.9 | 5.9# |

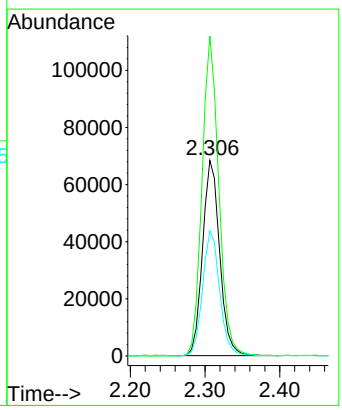


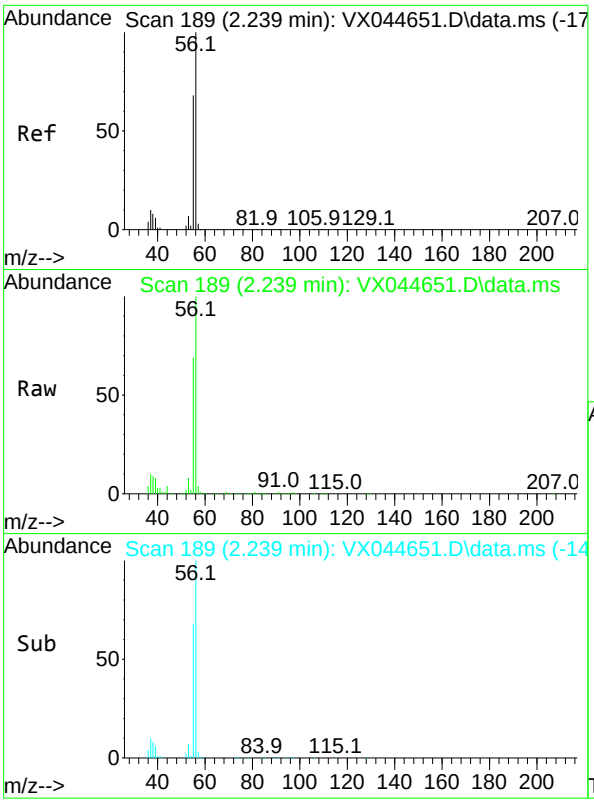




#12
1,1-Dichloroethene
Concen: 48.342 ug/l
RT: 2.306 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 96 Resp: 108167

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 163.9 | 131.1 | 196.7 |
| 98 | 64.0 | 51.2 | 76.8 |



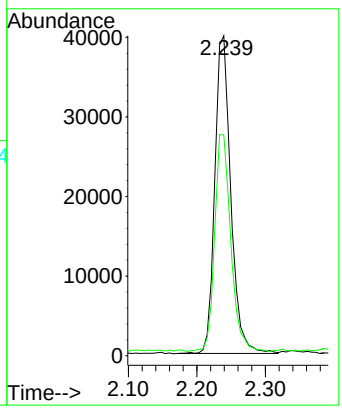


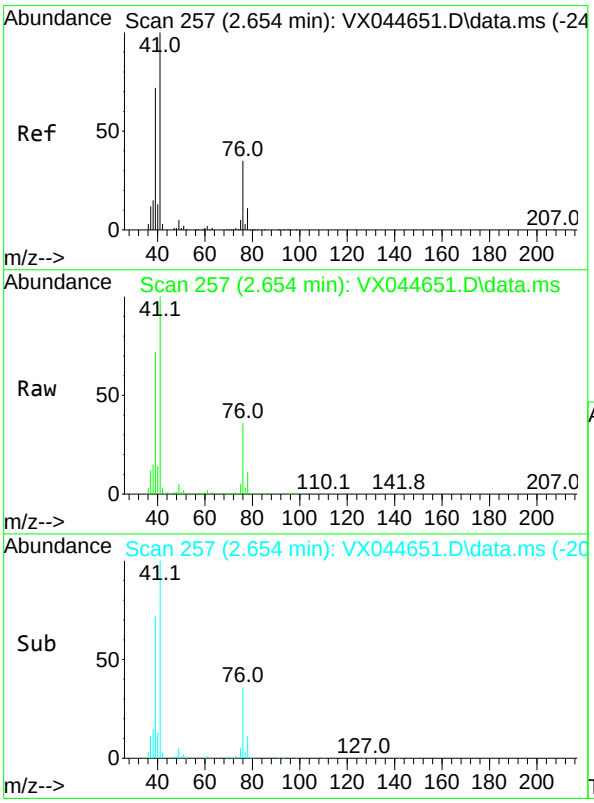

#13
Acrolein
Concen: 213.821 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 64703

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.9 | 55.1 | 82.7 |

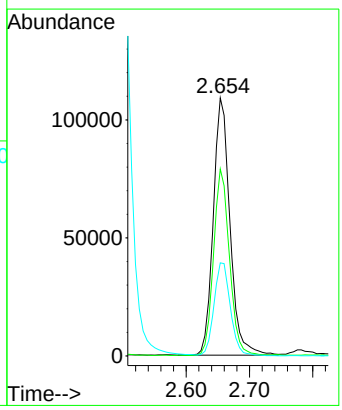


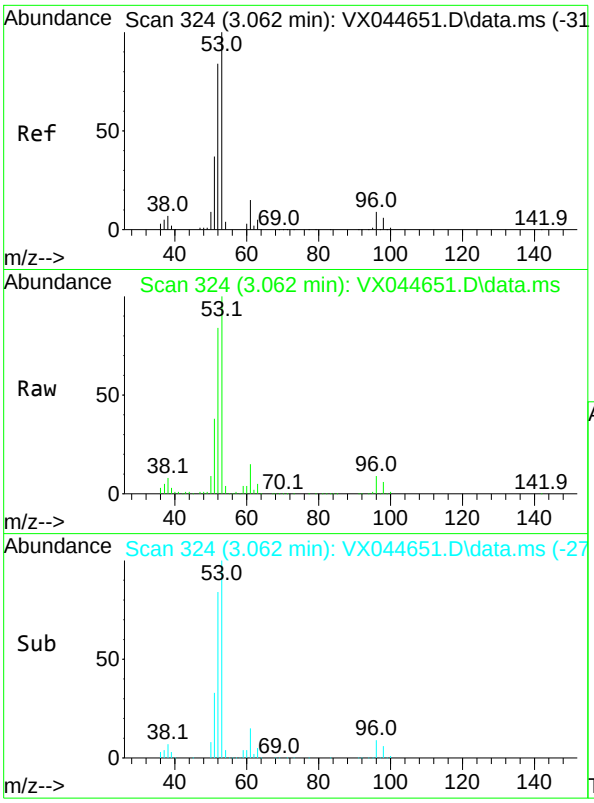




#14
Allyl chloride
Concen: 46.011 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 41 Resp: 200446

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.6 | 54.9 | 82.3 |
| 76 | 35.5 | 28.4 | 42.6 |



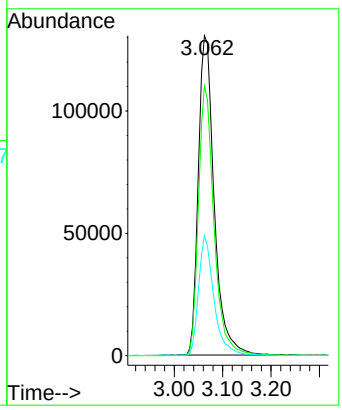


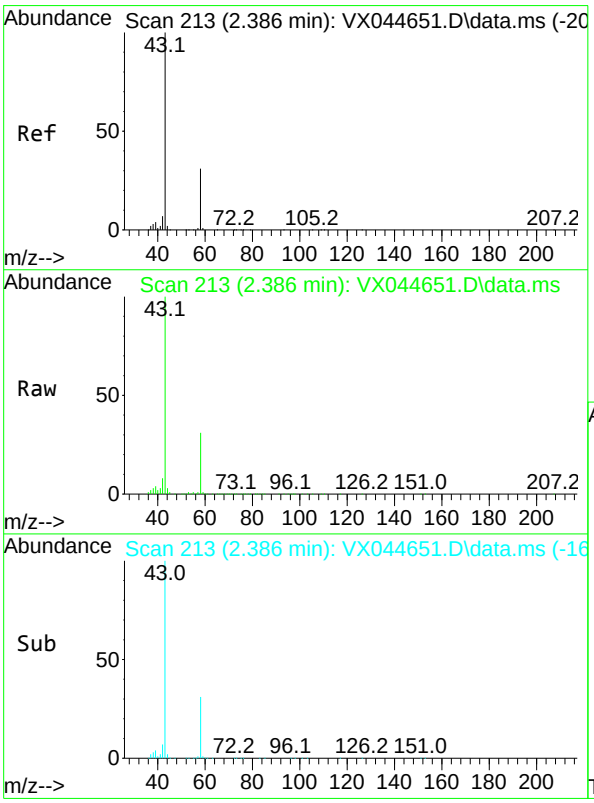

#15
Acrylonitrile
Concen: 236.777 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 53 Resp: 298629

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.5 | 66.0 | 99.0 |
| 51 | 36.1 | 28.9 | 43.3 |

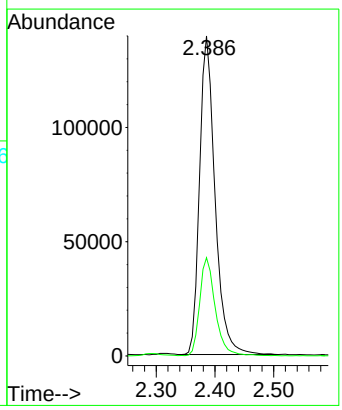


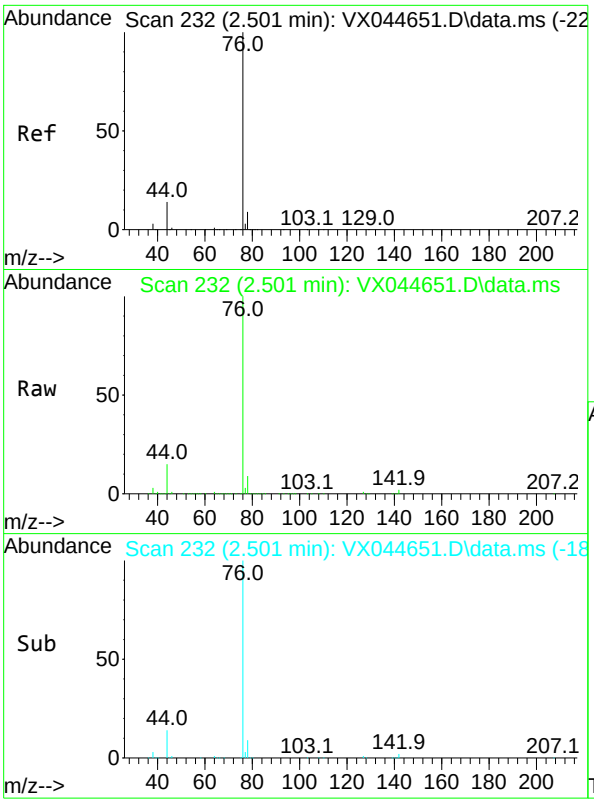




#16
Acetone
Concen: 223.898 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 255513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.8 | 24.6 | 37.0 |



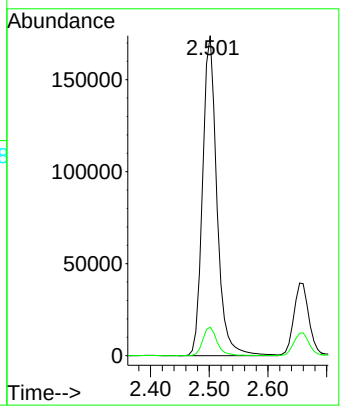


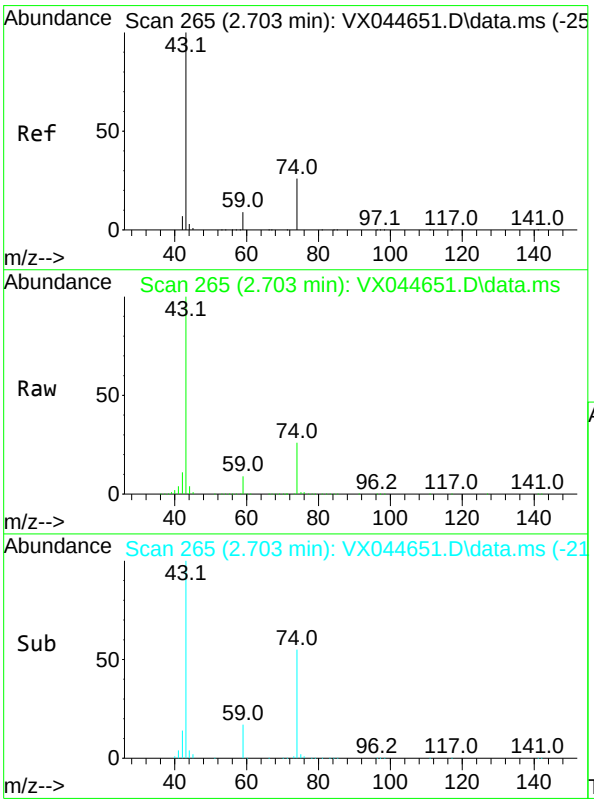

#17
Carbon Disulfide
Concen: 48.333 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 295098

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 8.9 | 7.1 | 10.7 |

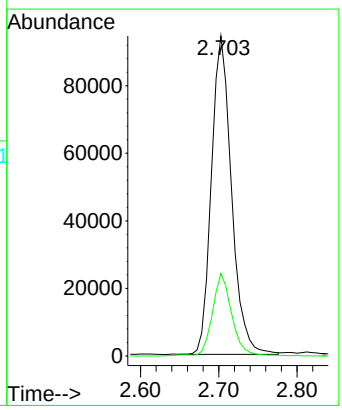


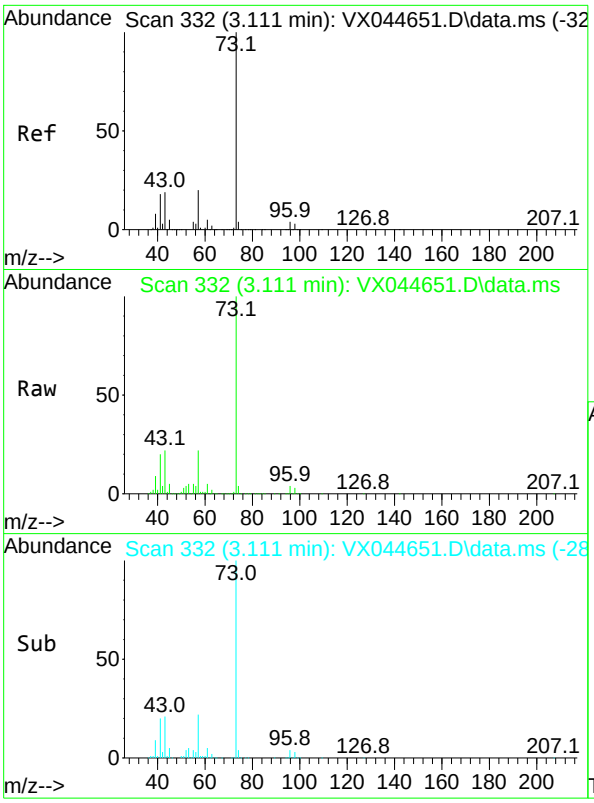




#18
Methyl Acetate
Concen: 47.777 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 168213

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.8 | 19.8 | 29.8 |



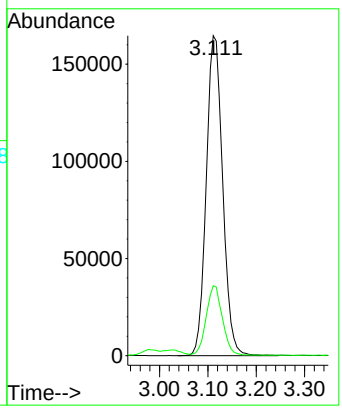


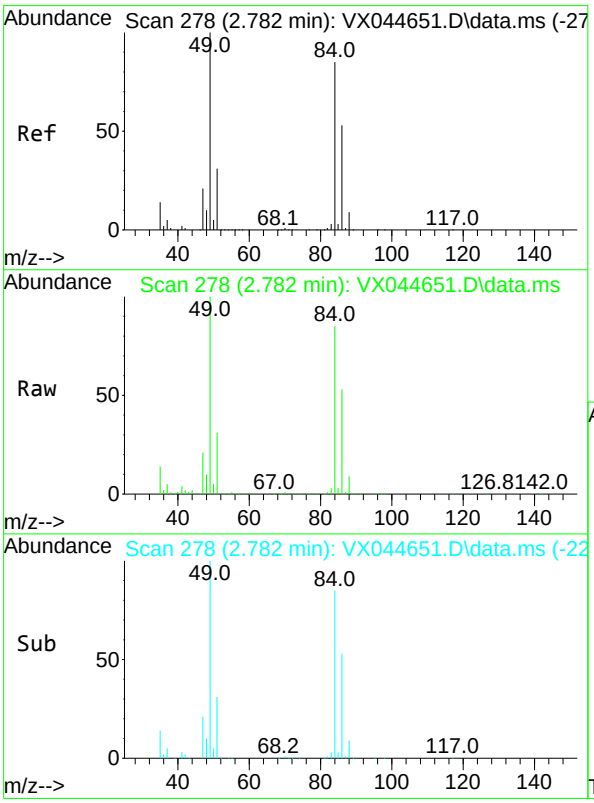

#19
Methyl tert-butyl Ether
Concen: 47.913 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 73 Resp: 388306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.7 | 17.4 | 26.0 |

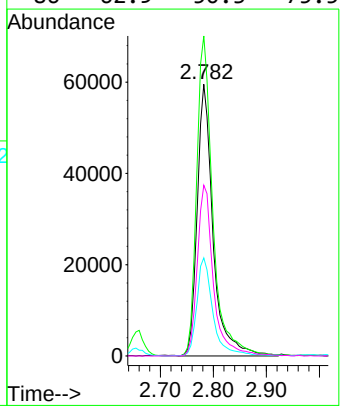


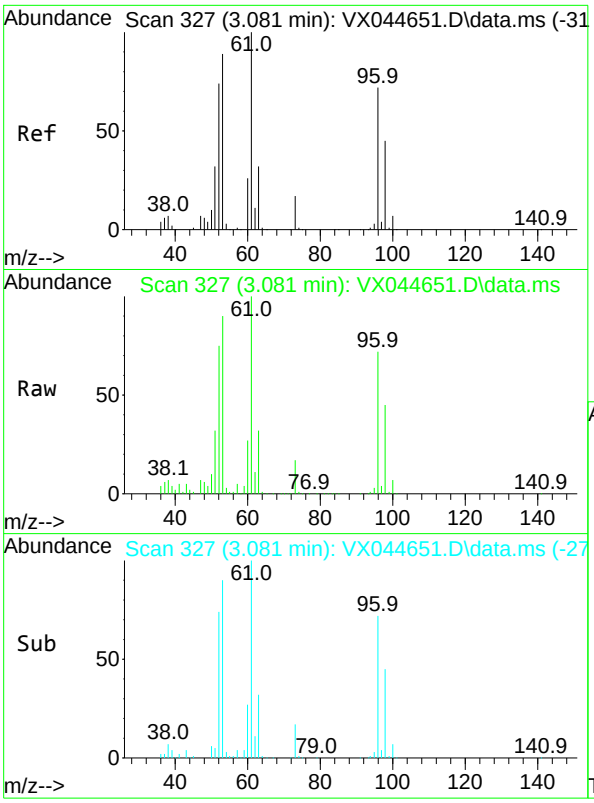




#20
Methylene Chloride
Concen: 46.761 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 84 Resp: 124271

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.8 | 94.2 | 141.4 |
| 51 | 36.0 | 28.8 | 43.2 |
| 86 | 62.9 | 50.3 | 75.5 |



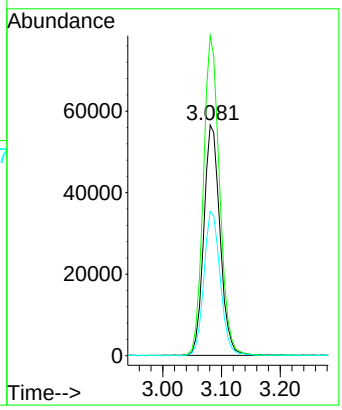


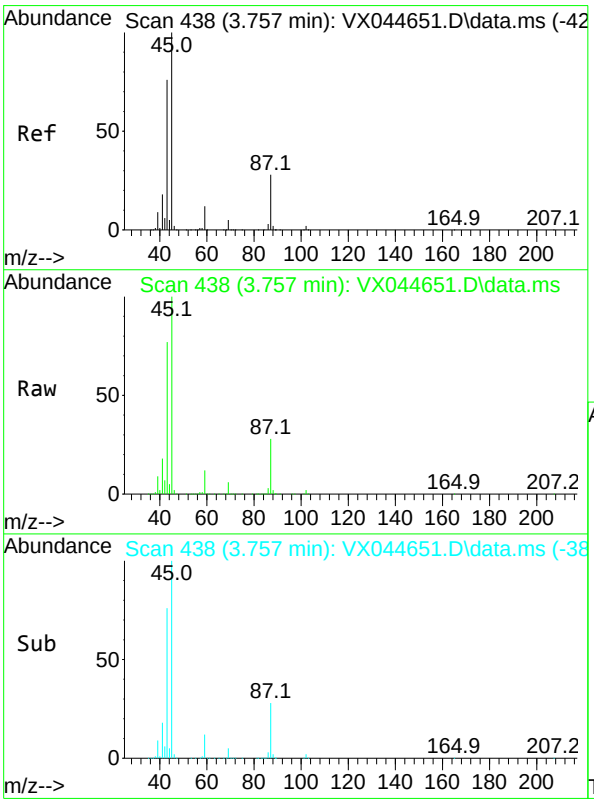

#21
trans-1,2-Dichloroethene
Concen: 46.441 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 108489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 138.8 | 111.0 | 166.6 |
| 98 | 62.7 | 50.2 | 75.2 |

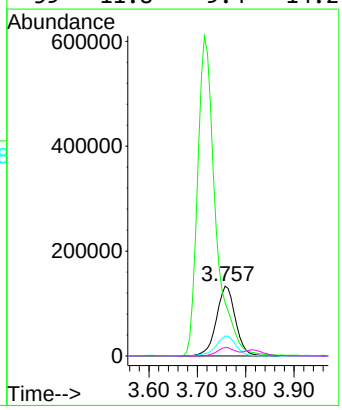


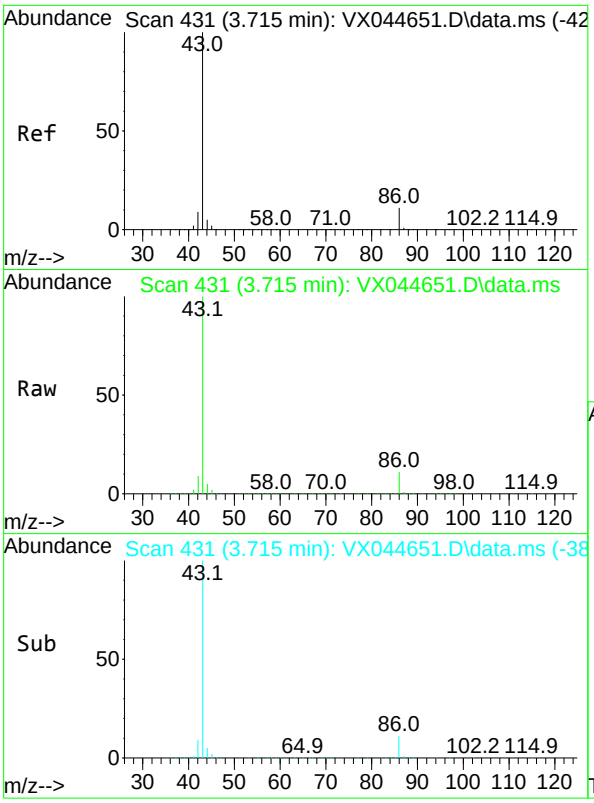




#22
Diisopropyl ether
Concen: 47.964 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 45 Resp: 363224

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 76.3 | 61.0 | 91.6 |
| 87 | 28.4 | 22.7 | 34.1 |
| 59 | 11.8 | 9.4 | 14.2 |



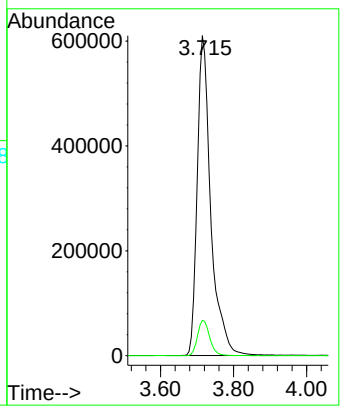


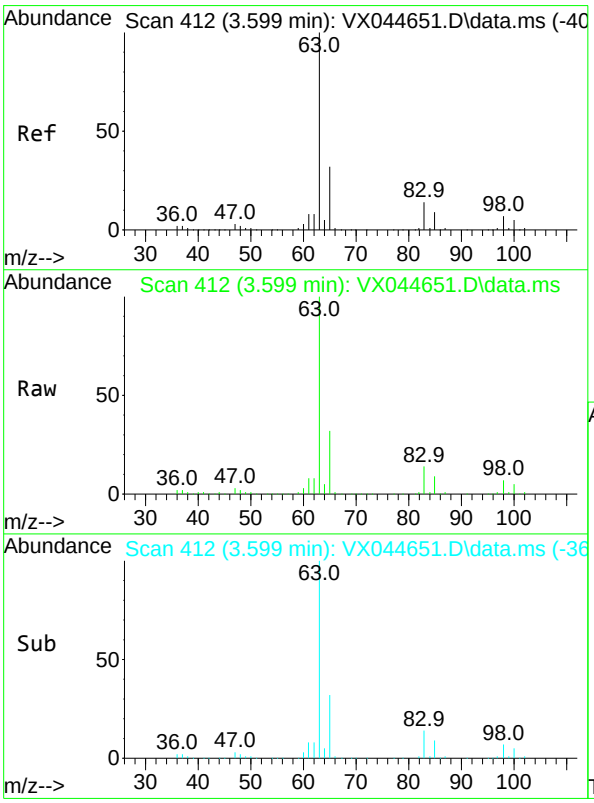

#23
Vinyl Acetate
Concen: 237.862 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 1576614

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.1 | 8.9 | 13.3 |

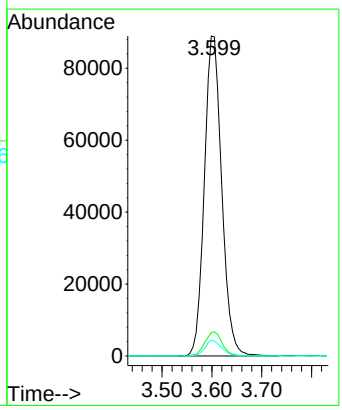


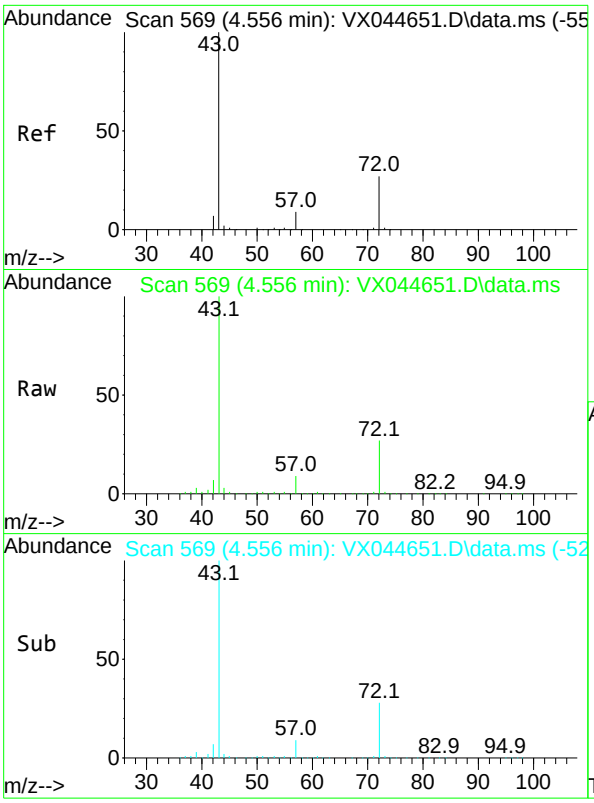




#24
1,1-Dichloroethane
Concen: 47.915 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 63 Resp: 215178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.3 | 3.6 | 10.9 |
| 100 | 5.0 | 2.5 | 7.5 |



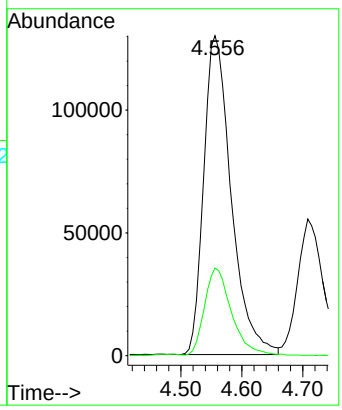


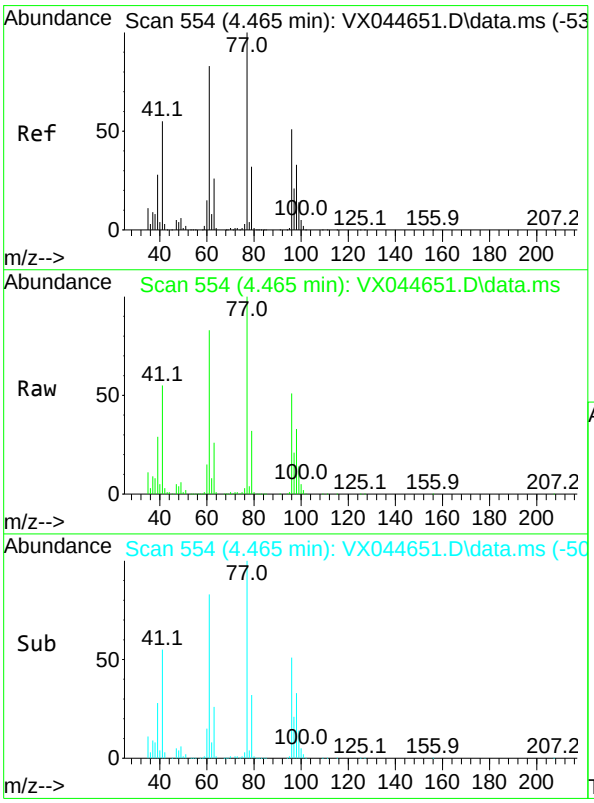

#25
2-Butanone
Concen: 239.931 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 407104

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 21.7 | 32.5 |

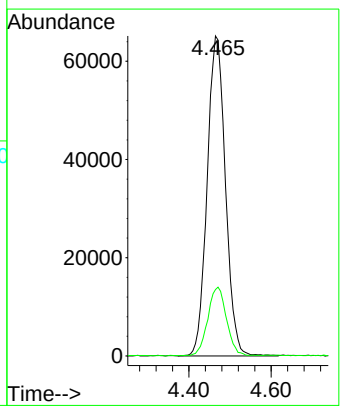


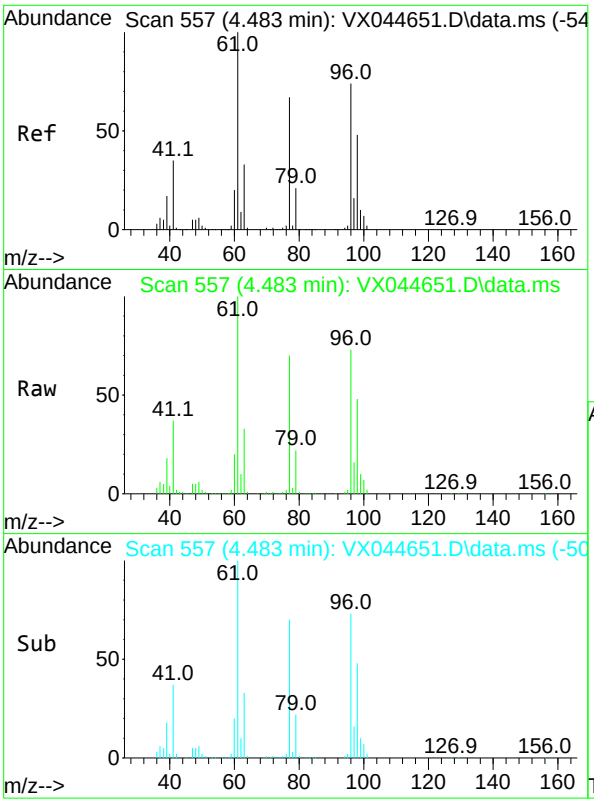




#26
2,2-Dichloropropane
Concen: 46.271 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 77 Resp: 201388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 21.7 | 10.9 | 32.6 |



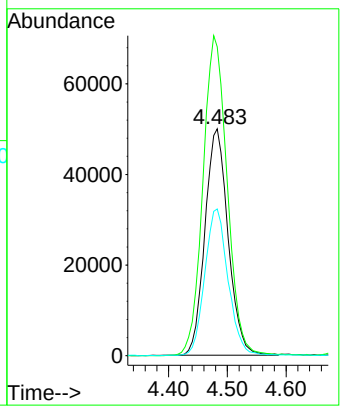


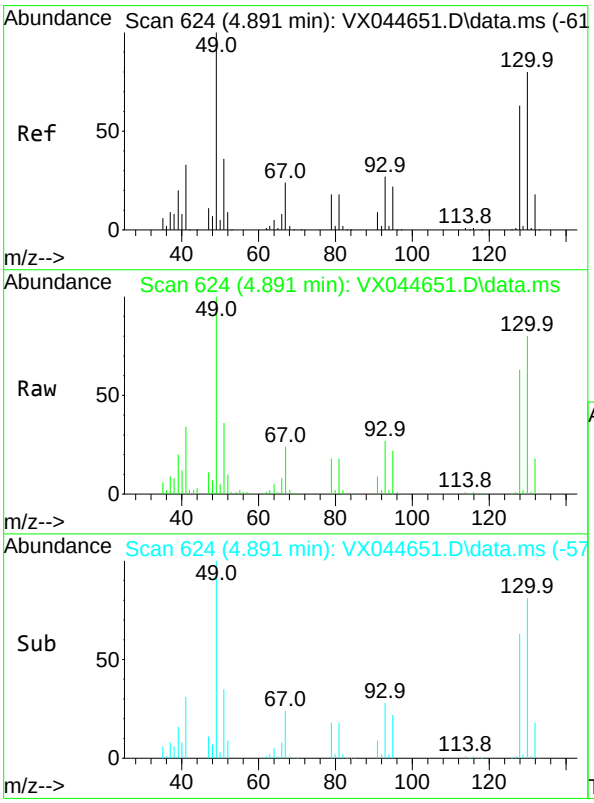

#27
cis-1,2-Dichloroethene
Concen: 46.654 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 96 Resp: 137091

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.0 | 0.0 | 296.0 |
| 98 | 65.0 | 0.0 | 130.0 |

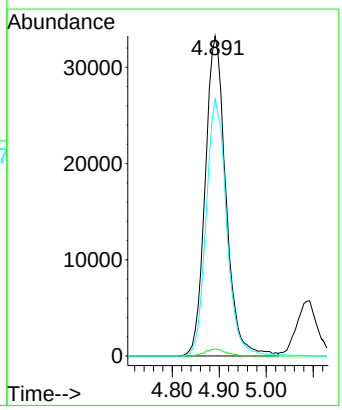


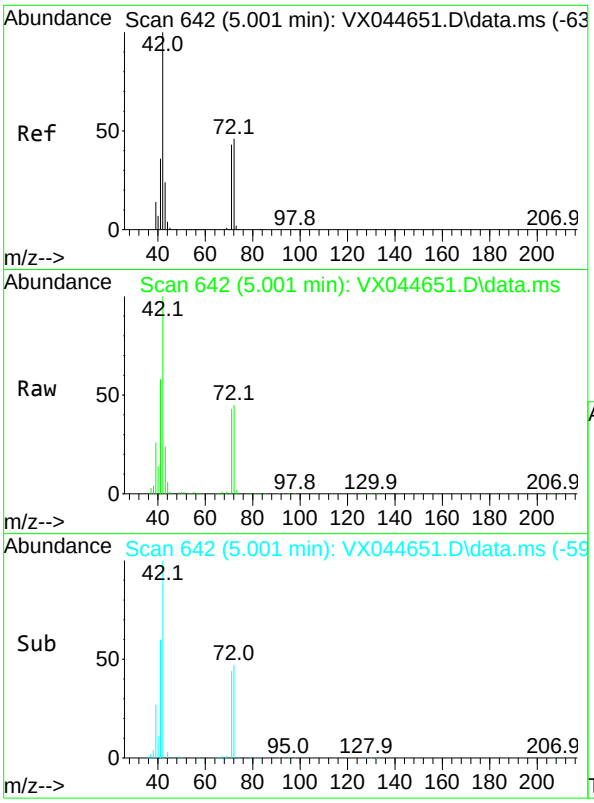




#28
Bromochloromethane
Concen: 48.346 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 49 Resp: 101453

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.4 |
| 130 | 79.3 | 63.4 | 95.2 |



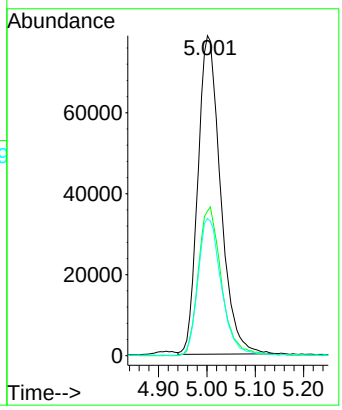


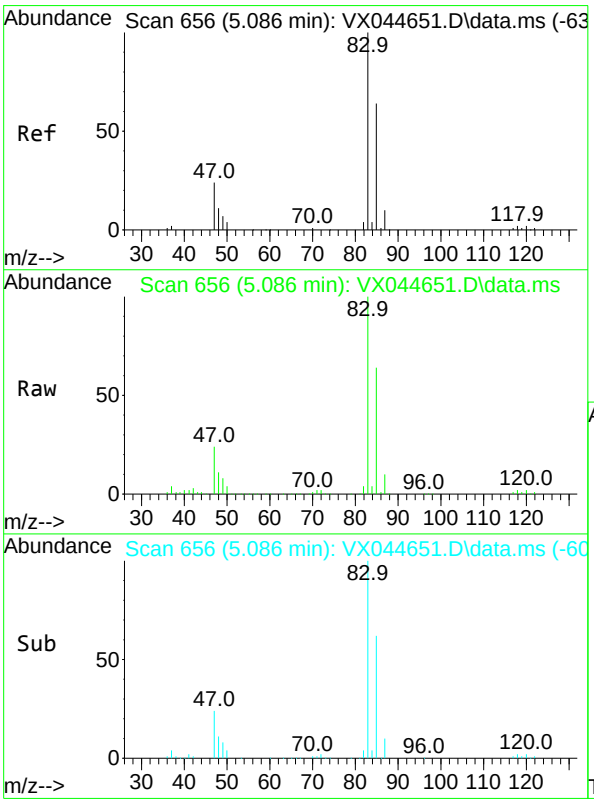

#29
Tetrahydrofuran
Concen: 233.952 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 42 Resp: 256051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.8 | 38.2 | 57.4 |
| 71 | 44.1 | 35.3 | 52.9 |

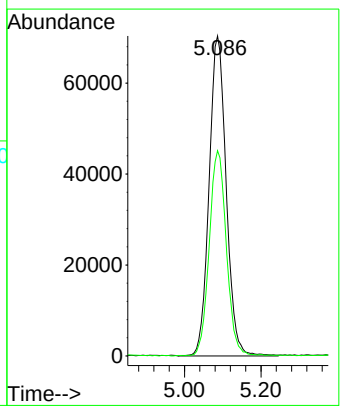


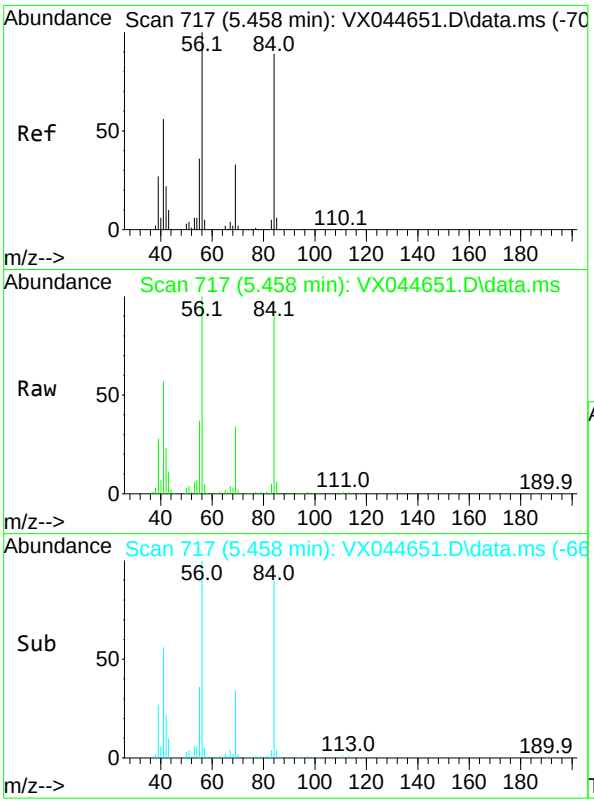




#30
Chloroform
Concen: 48.144 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 83 Resp: 218193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.0 | 51.2 | 76.8 |



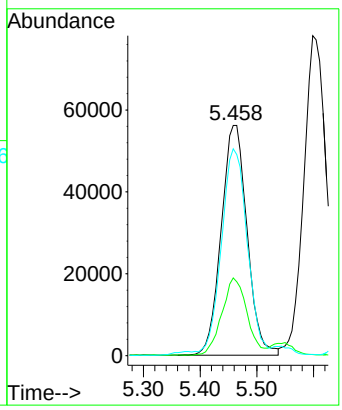


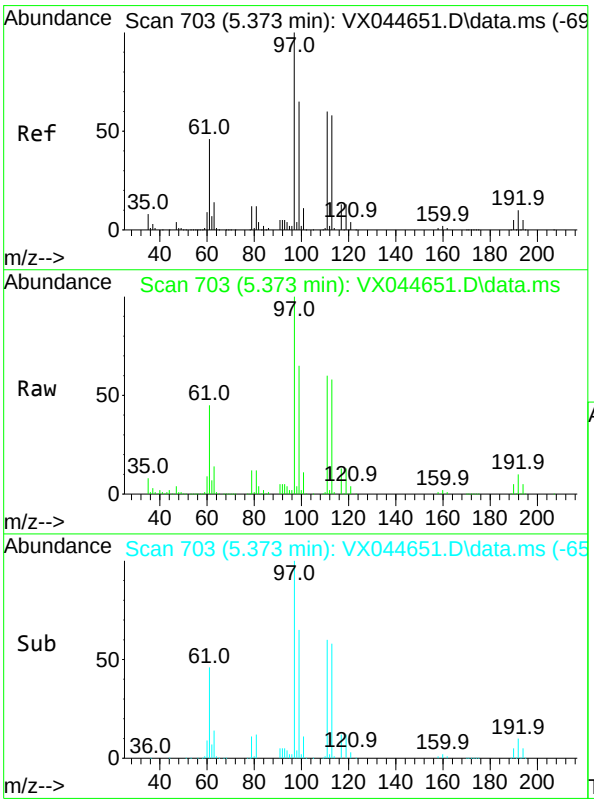

#31
Cyclohexane
Concen: 48.981 ug/l
RT: 5.458 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 56 Resp: 177904

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 33.5 | 26.8 | 40.2 |
| 84 | 88.7 | 71.0 | 106.4 |

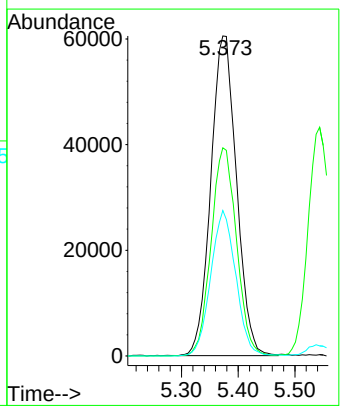


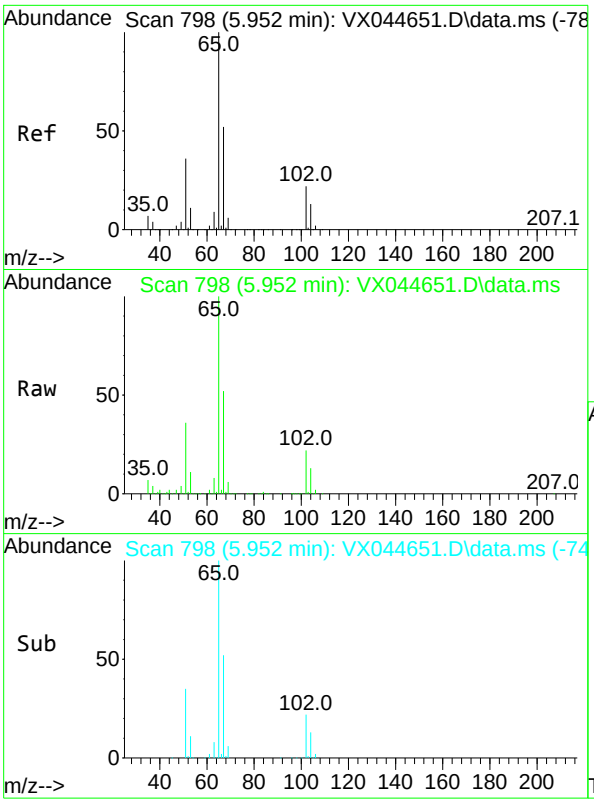




#32
1,1,1-Trichloroethane
Concen: 45.718 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 97 Resp: 190478

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.5 | 51.6 | 77.4 |
| 61 | 44.5 | 35.6 | 53.4 |



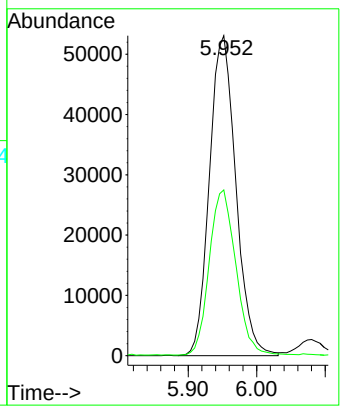


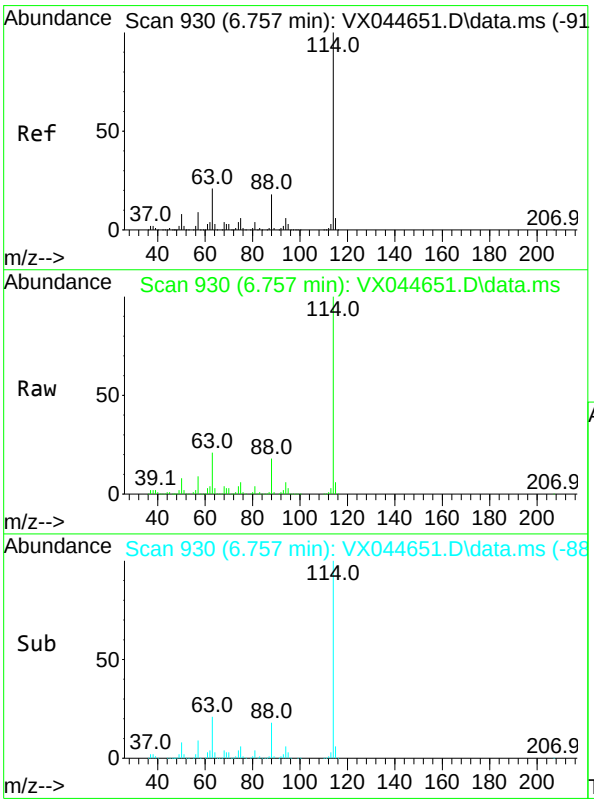

#33
1,2-Dichloroethane-d4
Concen: 49.339 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 65 Resp: 142316

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.7 | 0.0 | 103.4 |

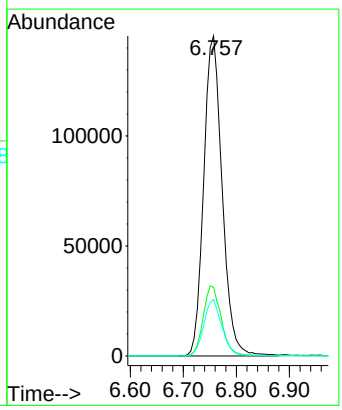


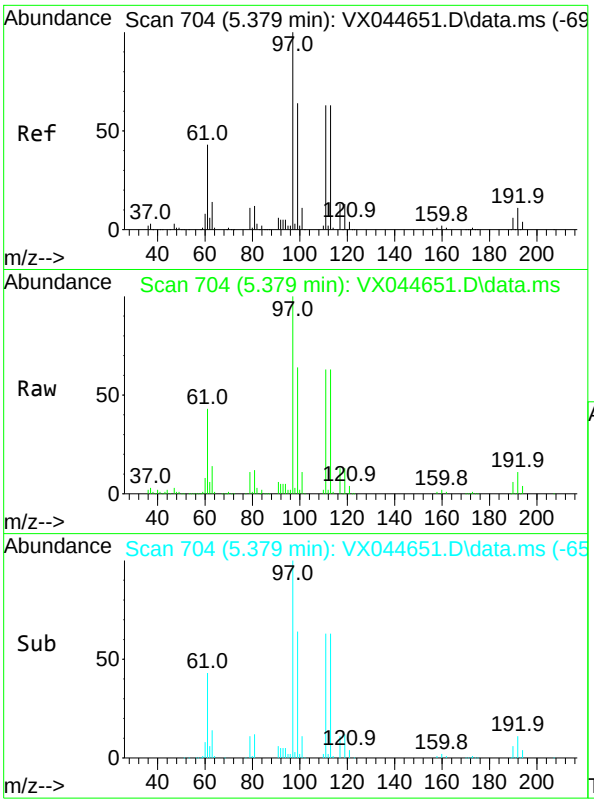




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:114 Resp: 351701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.5 | 0.0 | 43.0 |
| 88 | 17.7 | 0.0 | 35.4 |



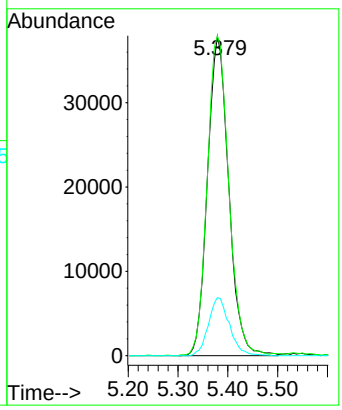


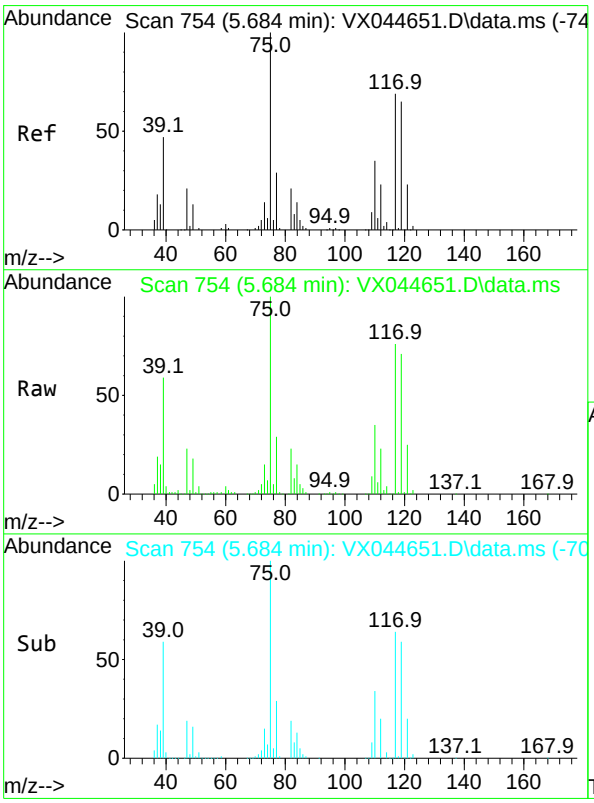

#35
Dibromofluoromethane
Concen: 50.011 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:113 Resp: 111739

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.0 | 81.6 | 122.4 |
| 192 | 18.0 | 14.4 | 21.6 |

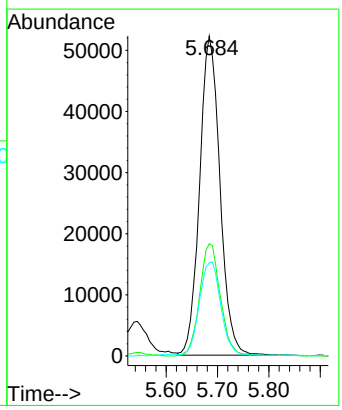


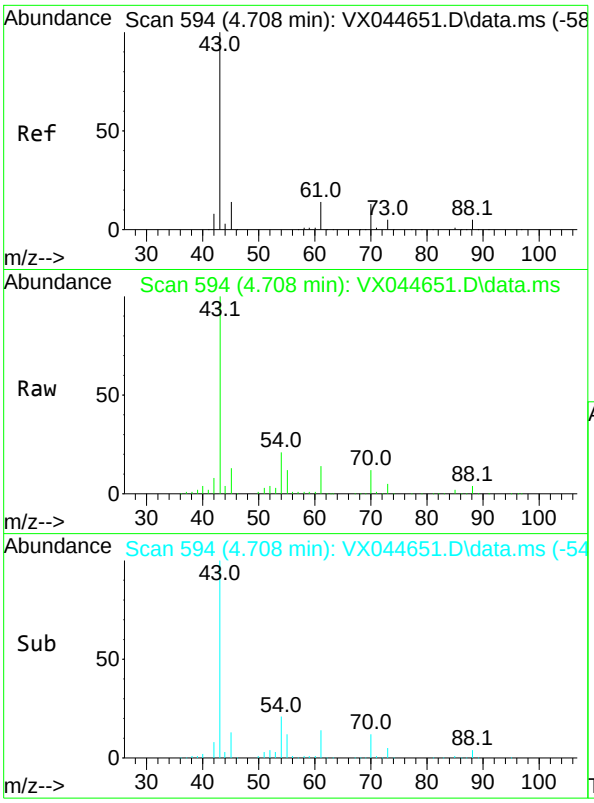




#36
1,1-Dichloropropene
Concen: 46.120 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 75 Resp: 143445

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.9 | 17.9 | 53.8 |
| 77 | 30.6 | 24.5 | 36.7 |



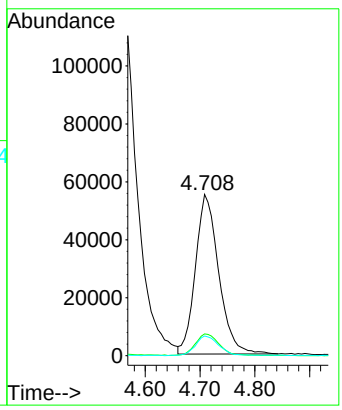


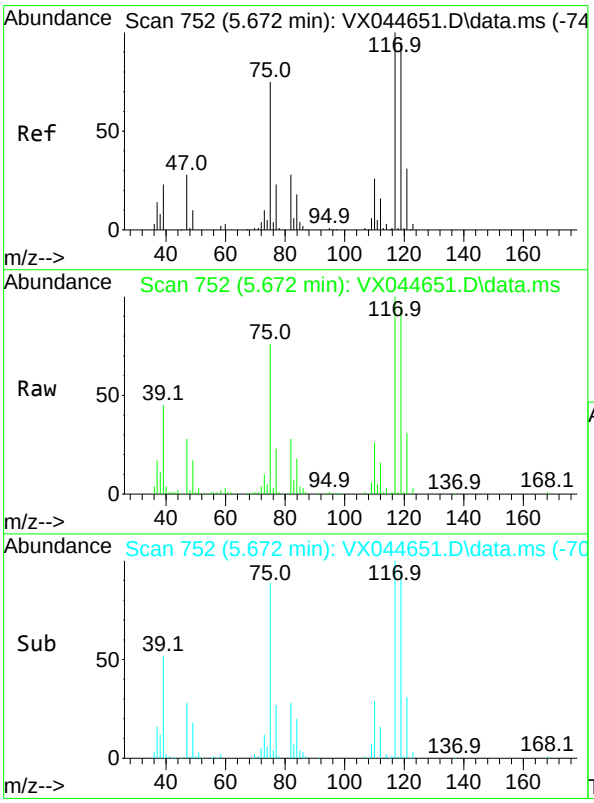

#37
Ethyl Acetate
Concen: 49.168 ug/l
RT: 4.708 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 162853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.6 | 10.9 | 16.3 |
| 70 | 12.6 | 10.1 | 15.1 |

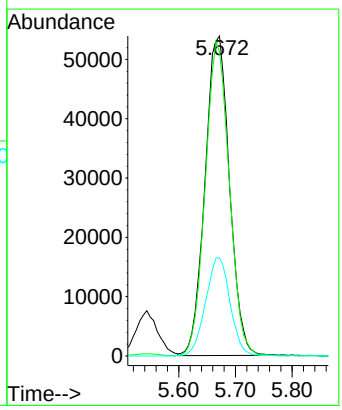


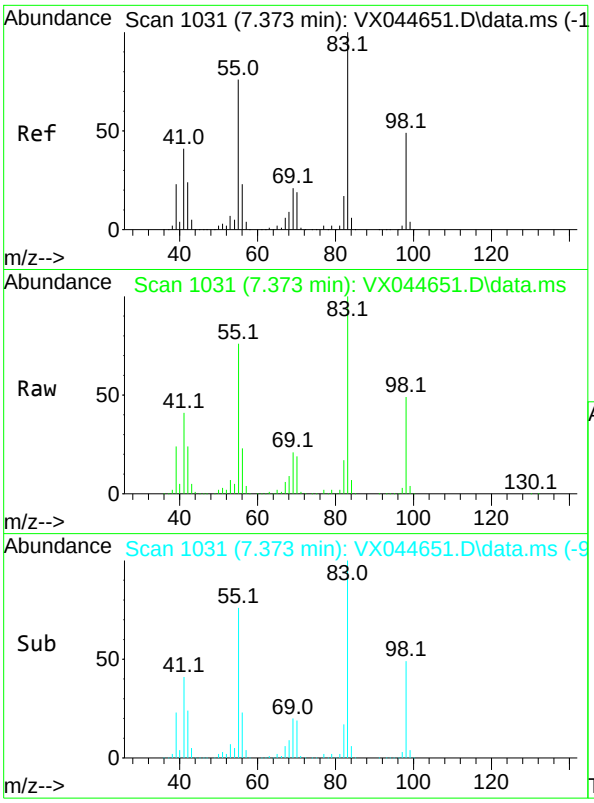




#38
Carbon Tetrachloride
Concen: 46.273 ug/l
RT: 5.672 min Scan# 752
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:117 Resp: 161882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.0 | 76.0 | 114.0 |
| 121 | 30.7 | 24.6 | 36.8 |



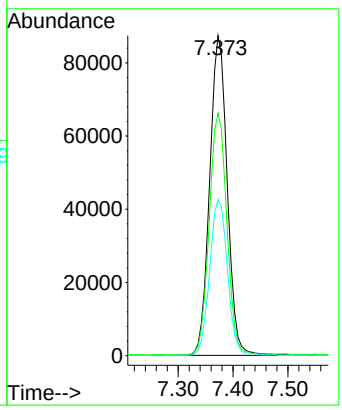


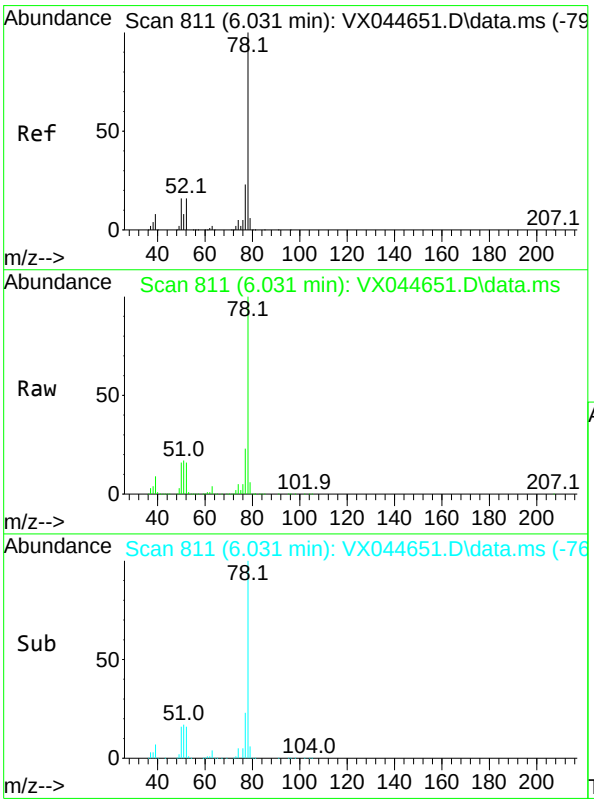

#39
Methylcyclohexane
Concen: 46.929 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 193759

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 75.6 | 60.5 | 90.7 |
| 98 | 48.7 | 39.0 | 58.4 |

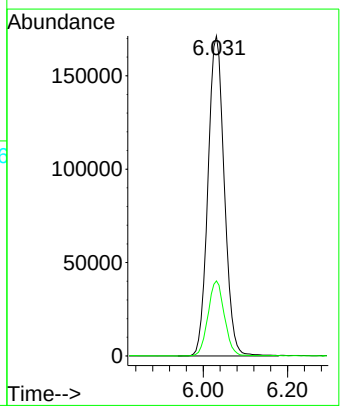


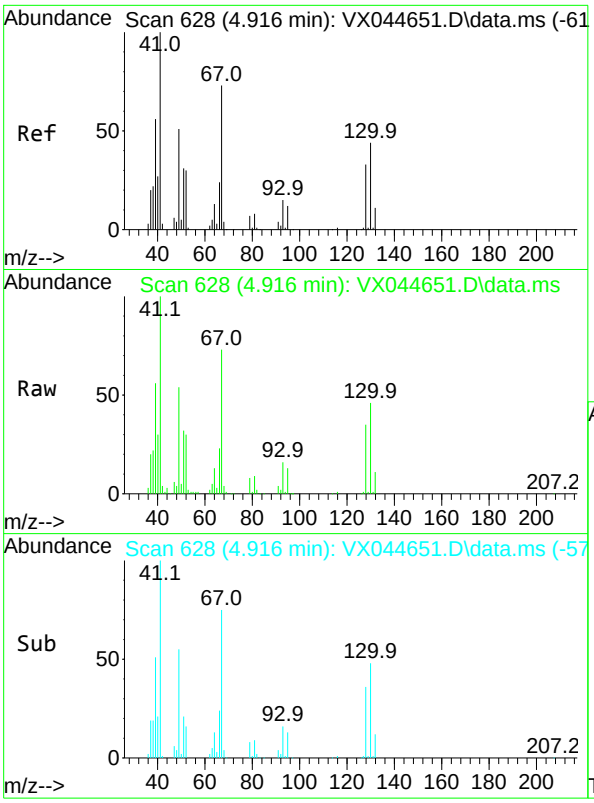




#40
Benzene
Concen: 47.670 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 78 Resp: 459433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 18.7 | 28.1 |



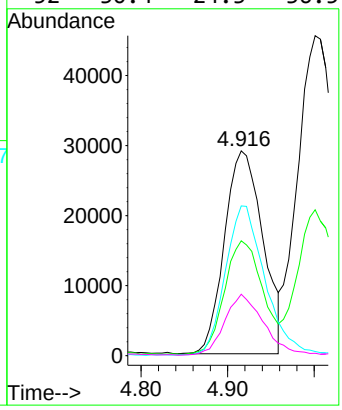


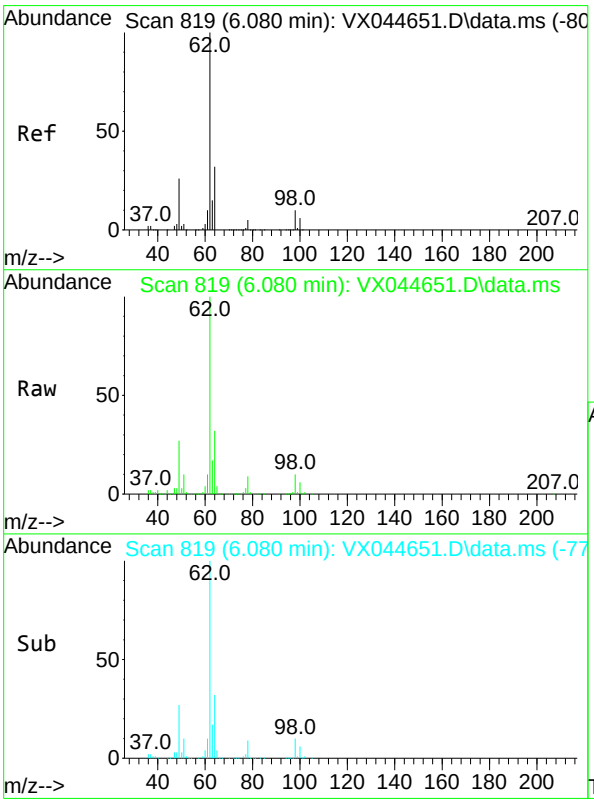

#41
Methacrylonitrile
Concen: 46.371 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 41 Resp: 89498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.5 | 44.4 | 66.6 |
| 67 | 75.7 | 60.6 | 90.8 |
| 52 | 30.4 | 24.3 | 36.5 |

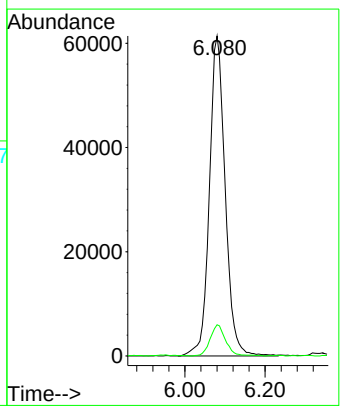


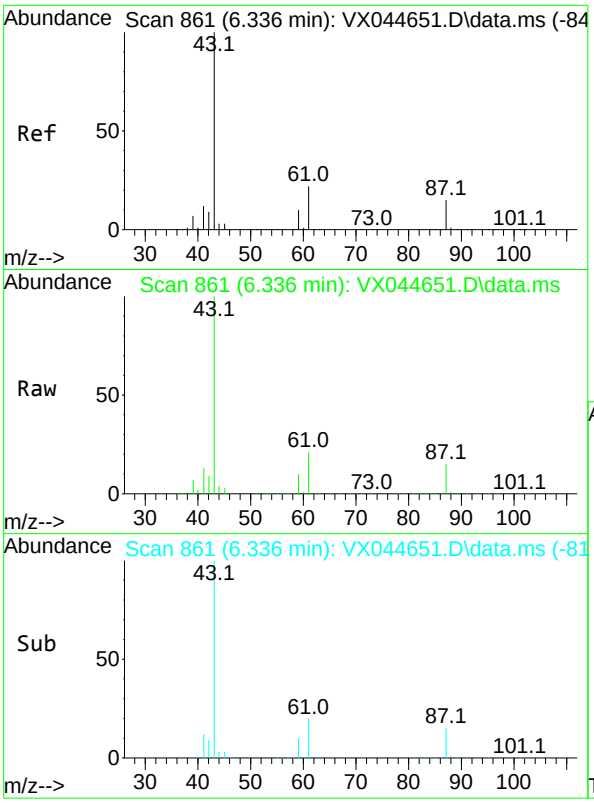




#42
1,2-Dichloroethane
Concen: 47.725 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 62 Resp: 167878

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.7 | 0.0 | 19.4 |



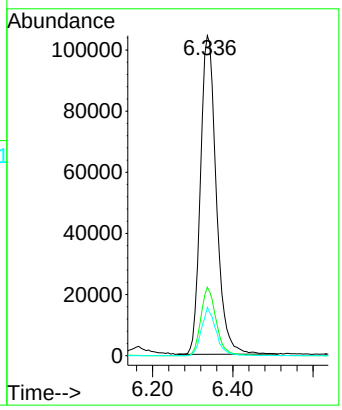


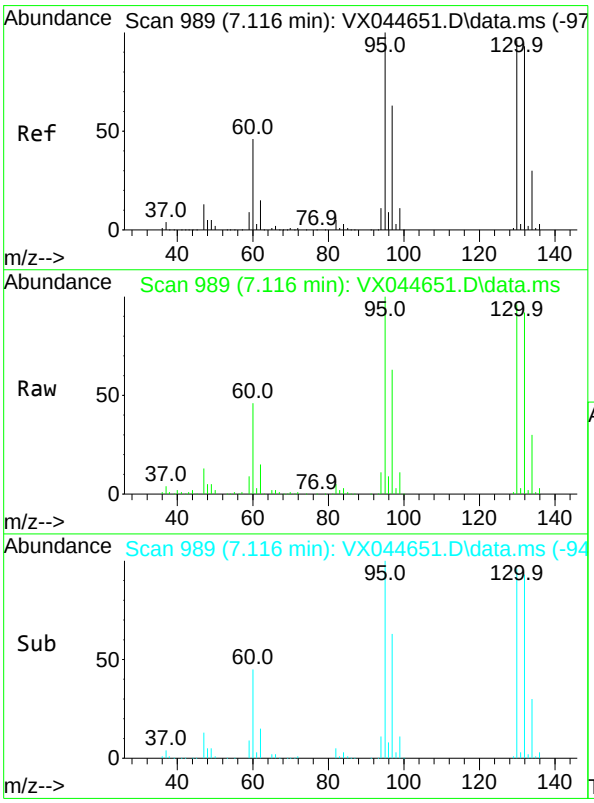

#43
Isopropyl Acetate
Concen: 47.053 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 286693

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.7 | 16.6 | 24.8 |
| 87 | 13.8 | 11.0 | 16.6 |

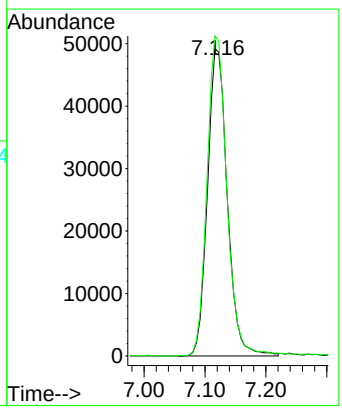


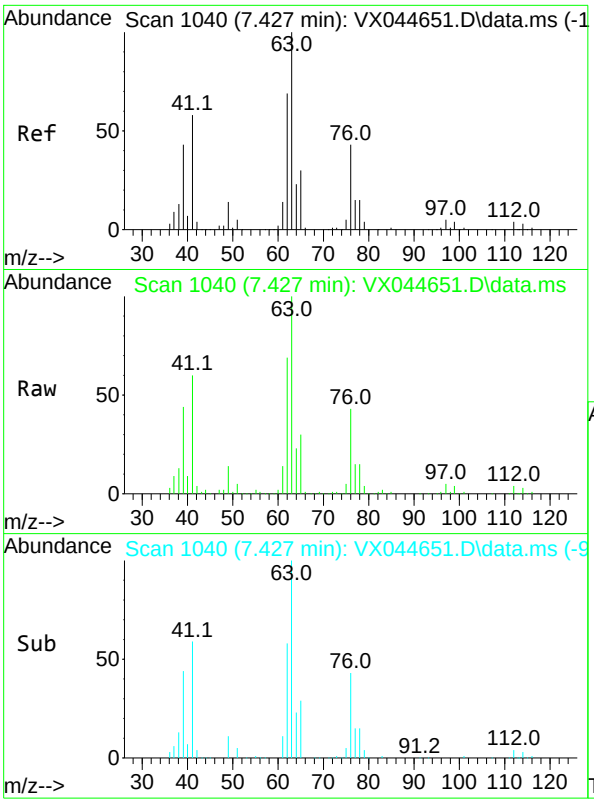




#44
Trichloroethene
Concen: 47.956 ug/l
RT: 7.116 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:130 Resp: 111112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 104.1 | 0.0 | 208.2 |



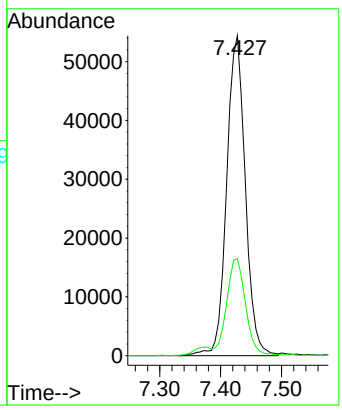


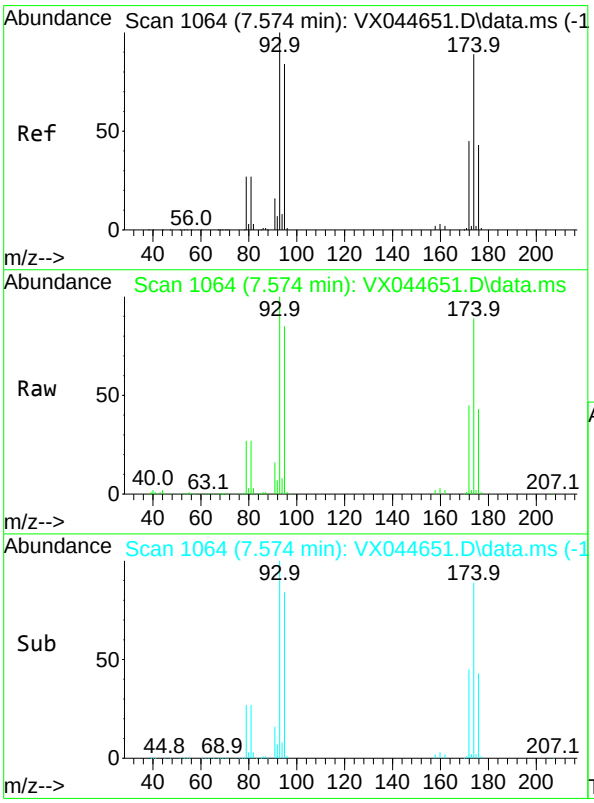

#45
1,2-Dichloropropane
Concen: 47.660 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 63 Resp: 115621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.2 | 24.2 | 36.2 |

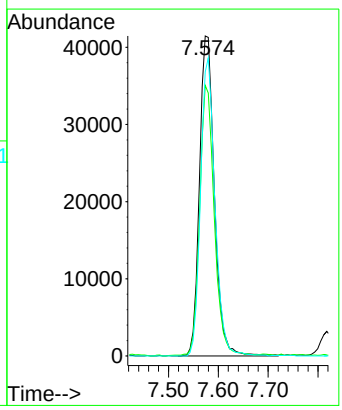


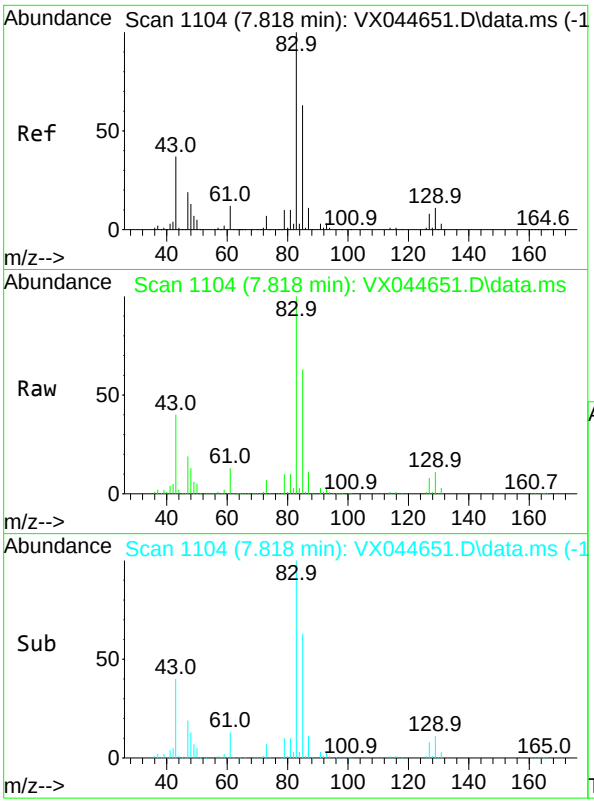




#46
Dibromomethane
Concen: 46.813 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 93 Resp: 86455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.0 | 66.4 | 99.6 |
| 174 | 90.0 | 72.0 | 108.0 |



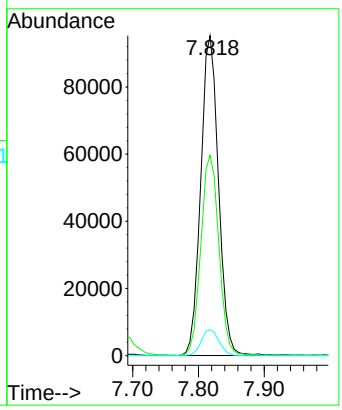


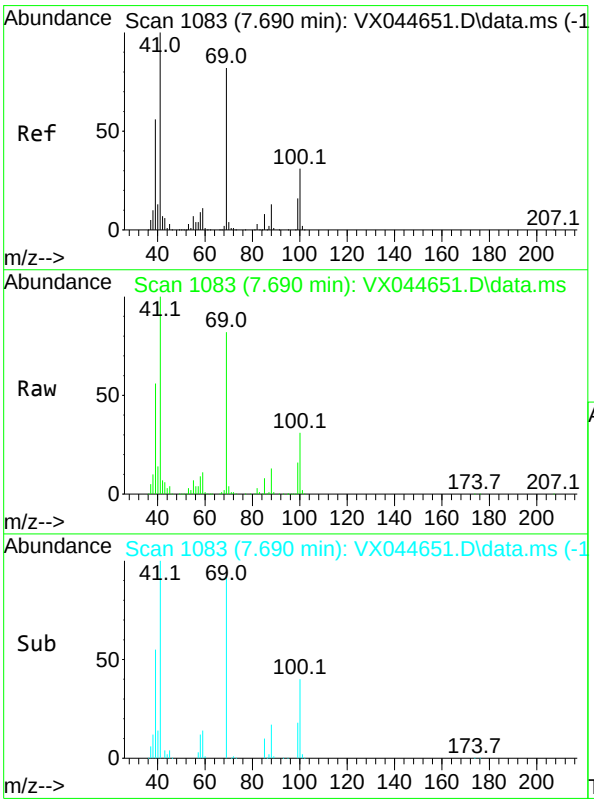

#47
Bromodichloromethane
Concen: 47.138 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 178531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.6 | 50.1 | 75.1 |
| 127 | 8.1 | 6.5 | 9.7 |

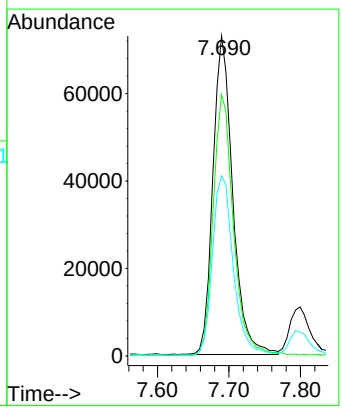


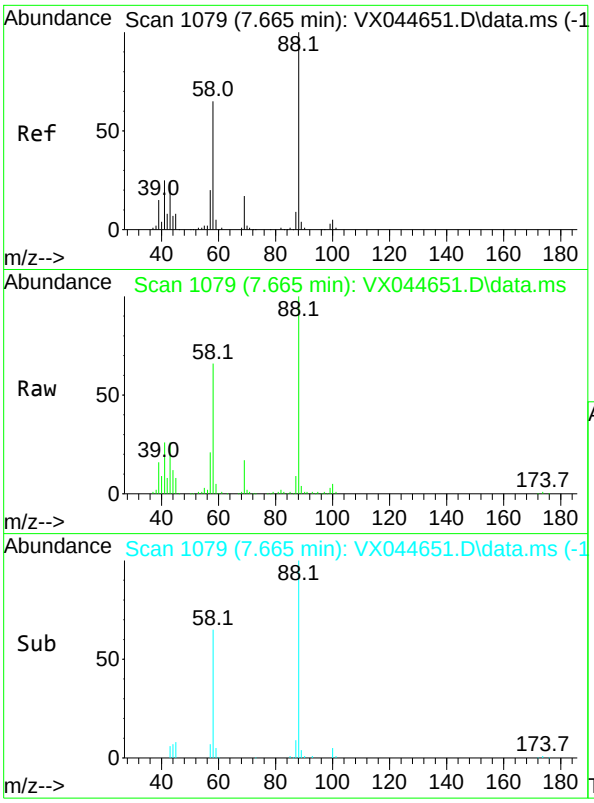




#48
Methyl methacrylate
Concen: 49.659 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 41 Resp: 140450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.5 | 66.8 | 100.2 |
| 39 | 59.2 | 47.4 | 71.0 |



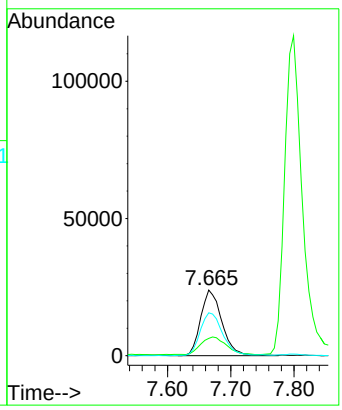


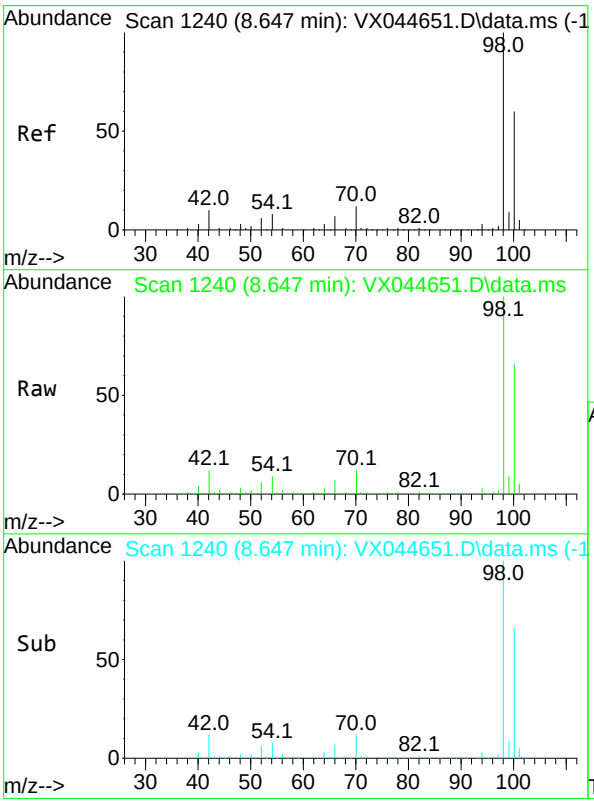

#49
1,4-Dioxane
Concen: 943.583 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 88 Resp: 55679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.7 | 27.0 | 40.4 |
| 58 | 69.8 | 55.8 | 83.8 |

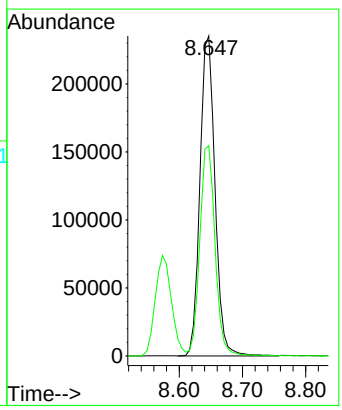


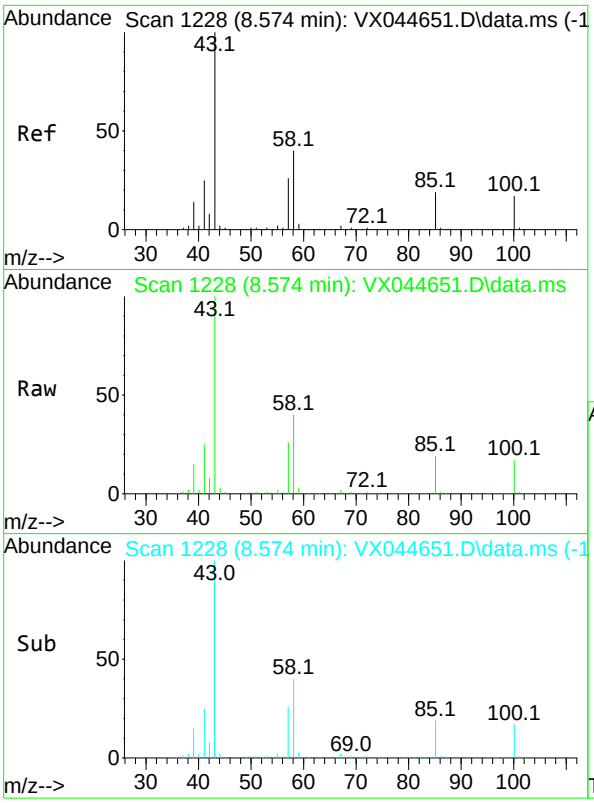




#50
Toluene-d8
Concen: 50.145 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 98 Resp: 390660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.5 | 53.2 | 79.8 |



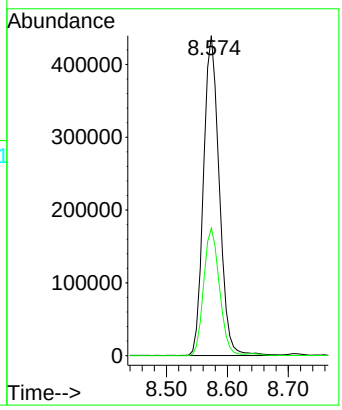


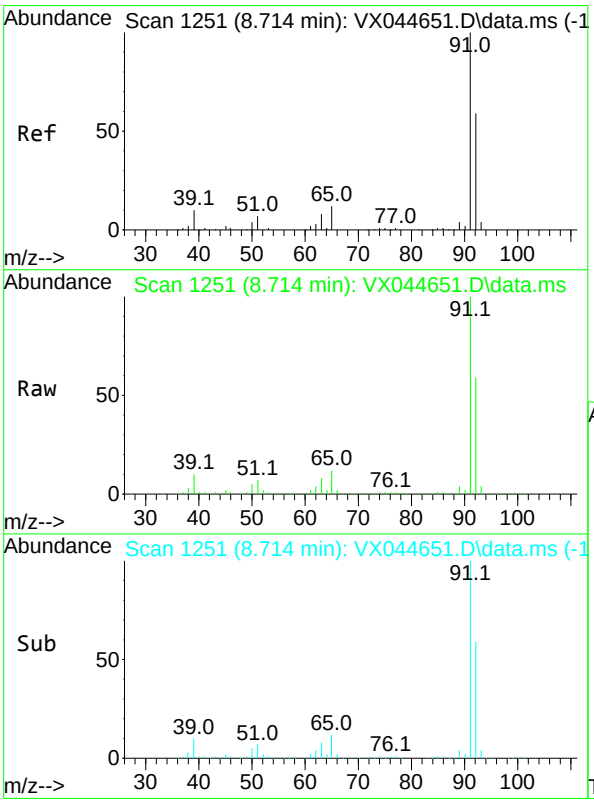

#51
4-Methyl-2-Pentanone
Concen: 234.662 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 790152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.9 | 31.9 | 47.9 |

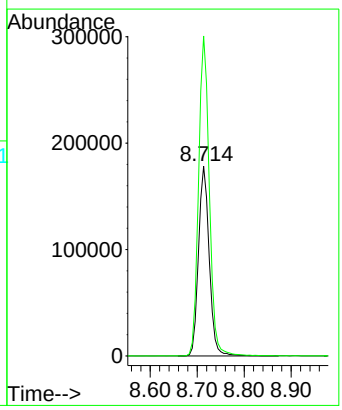


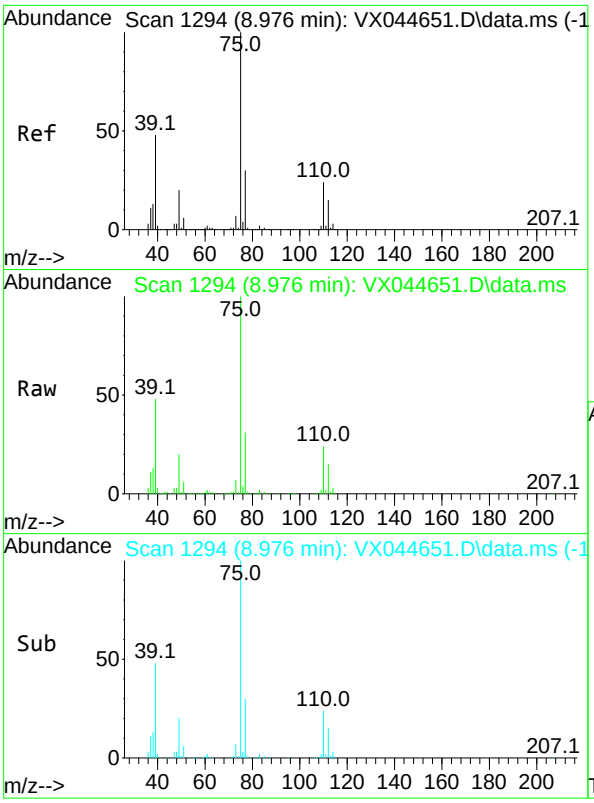




#52
Toluene
Concen: 48.001 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 92 Resp: 283156

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.6 | 135.7 | 203.5 |



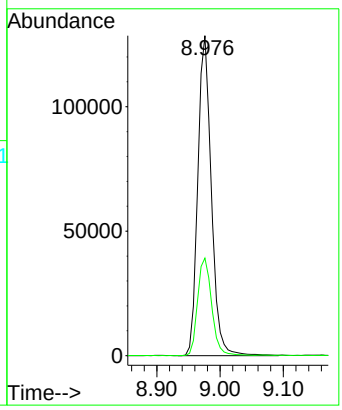


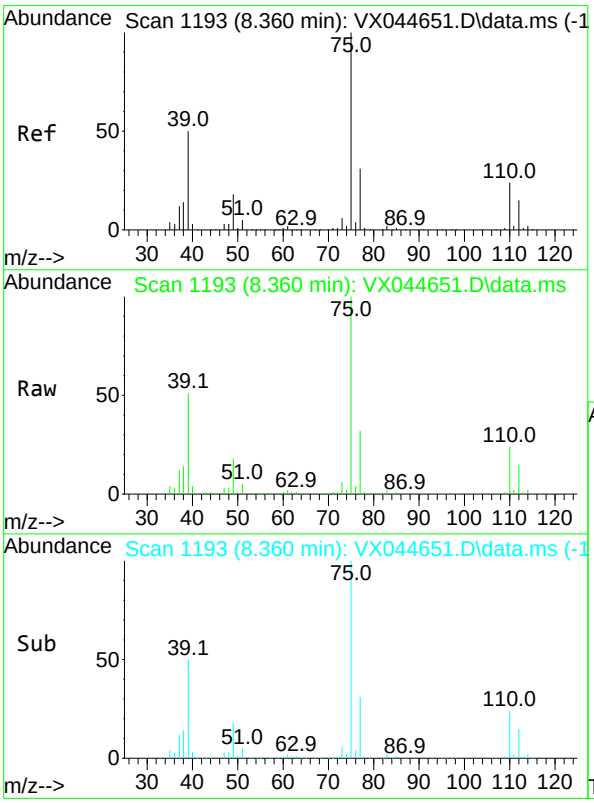

#53
t-1,3-Dichloropropene
Concen: 49.036 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 191876

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.5 | 24.4 | 36.6 |

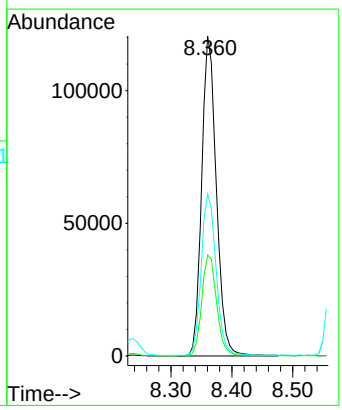


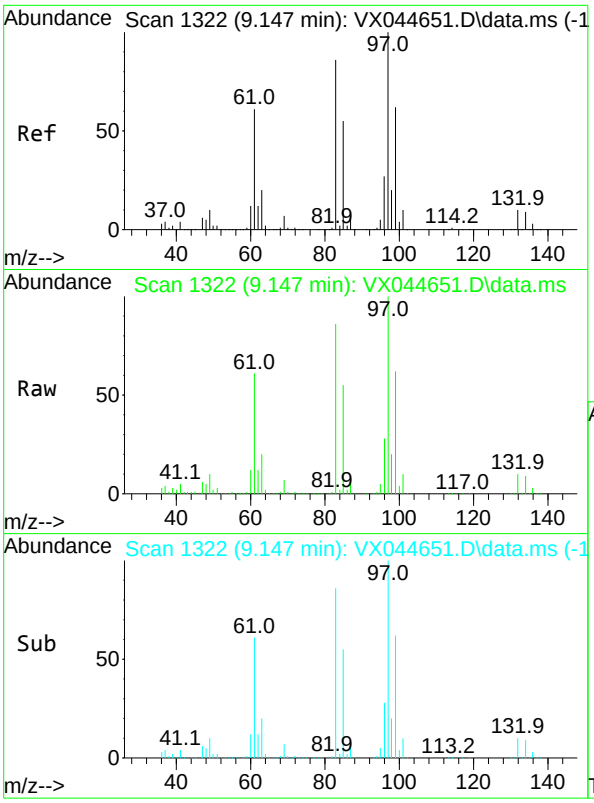




#54
cis-1,3-Dichloropropene
Concen: 47.563 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 75 Resp: 201804

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.4 | 25.1 | 37.7 |
| 39 | 50.4 | 40.3 | 60.5 |



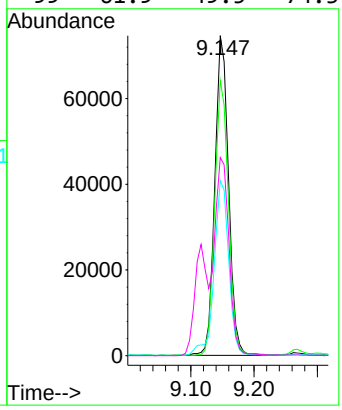


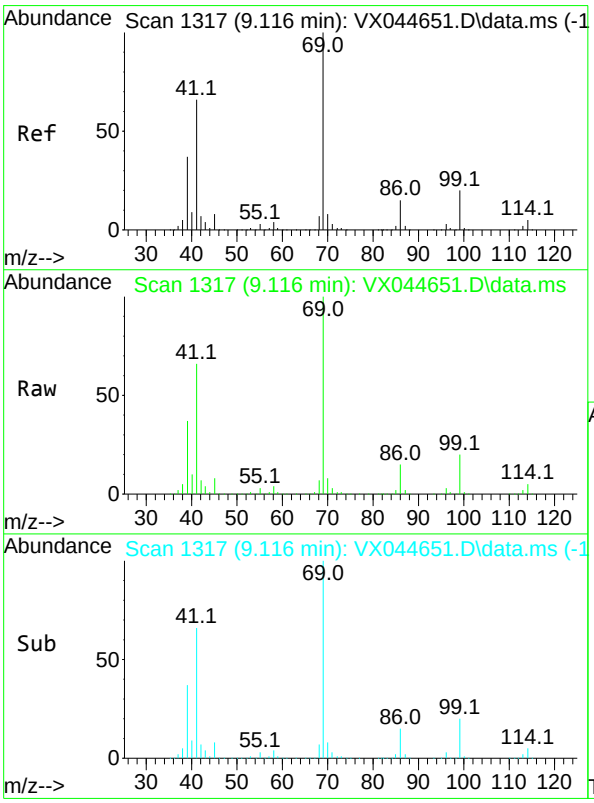

#55
1,1,2-Trichloroethane
Concen: 47.043 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 97 Resp: 112274

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.0 | 68.8 | 103.2 |
| 85 | 54.6 | 43.7 | 65.5 |
| 99 | 61.9 | 49.5 | 74.3 |

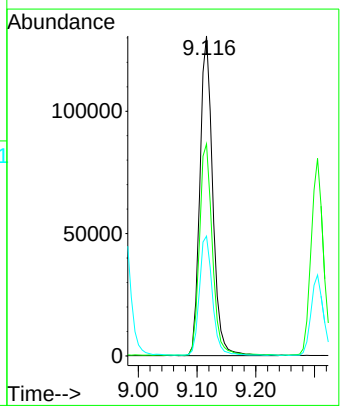


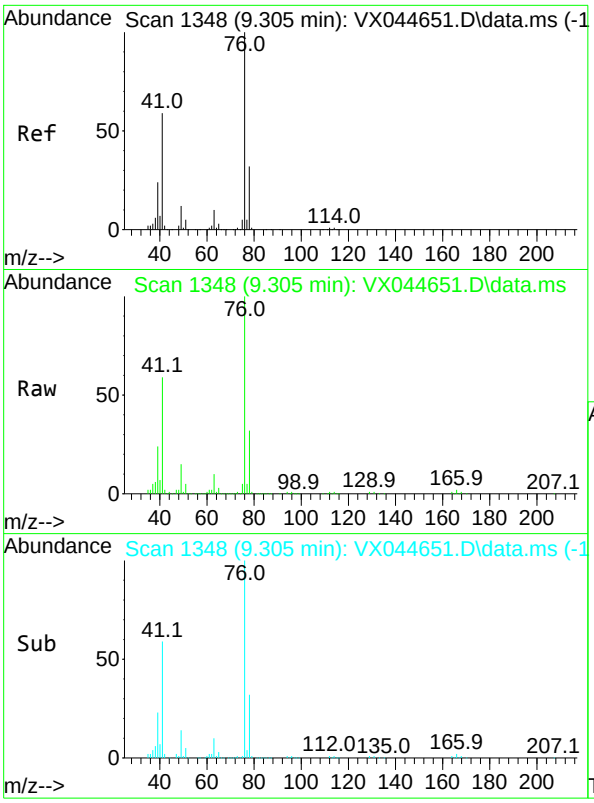




#56
Ethyl methacrylate
Concen: 48.353 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 69 Resp: 198422

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.5 | 53.2 | 79.8 |
| 39 | 37.7 | 30.2 | 45.2 |



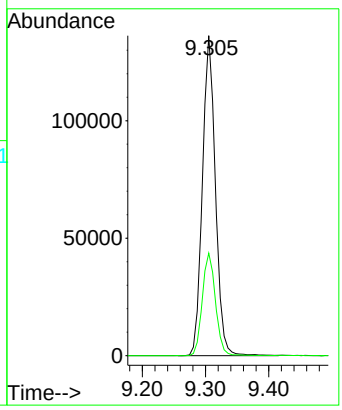


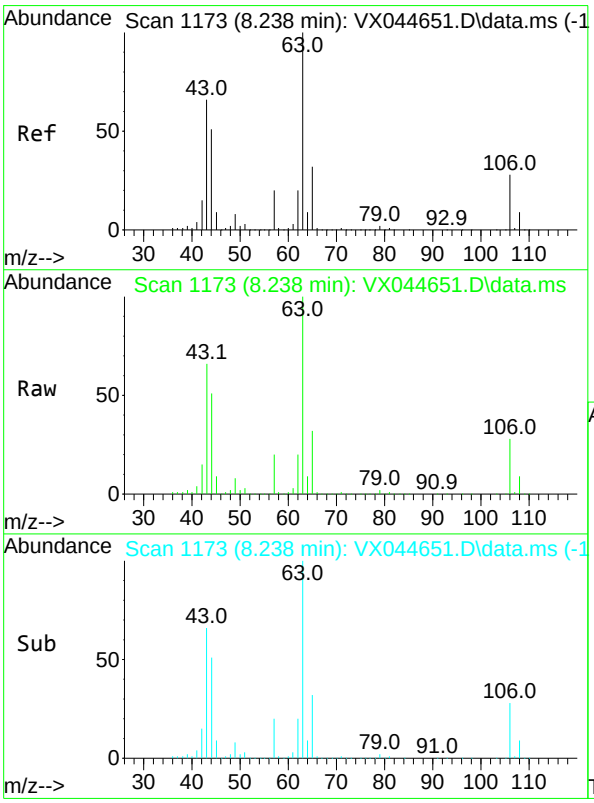

#57
1,3-Dichloropropane
Concen: 48.025 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 76 Resp: 195182

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.5 | 26.0 | 39.0 |

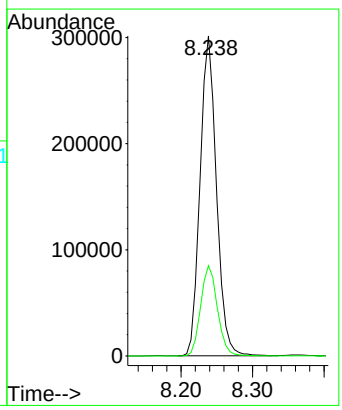


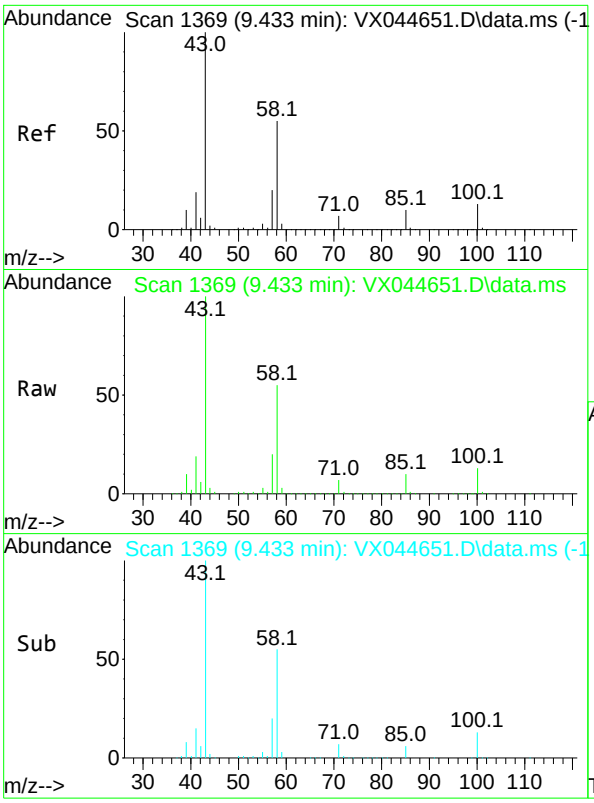




#58
2-Chloroethyl Vinyl ether
Concen: 238.018 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 63 Resp: 479521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.8 | 23.0 | 34.6 |



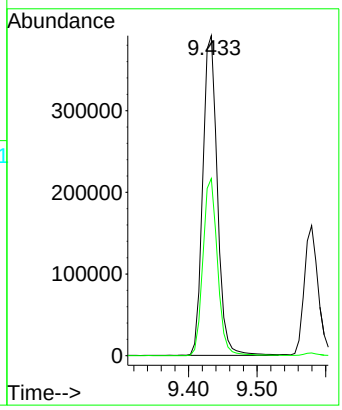


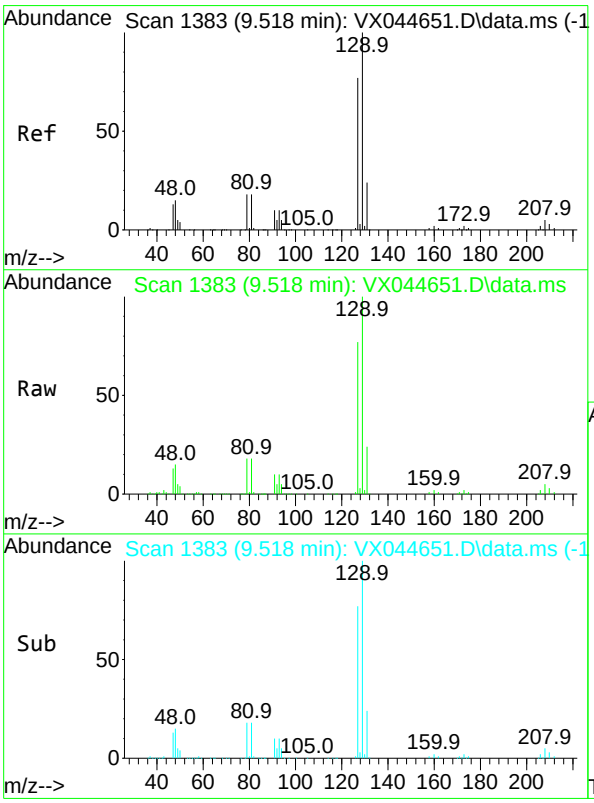

#59
2-Hexanone
Concen: 234.142 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 43 Resp: 580029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.5 | 27.8 | 83.3 |

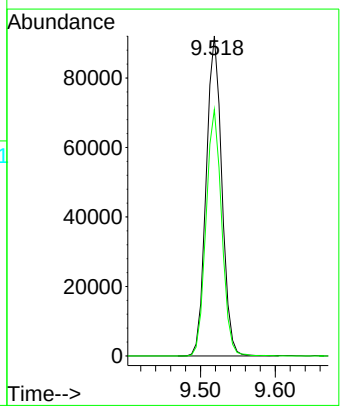


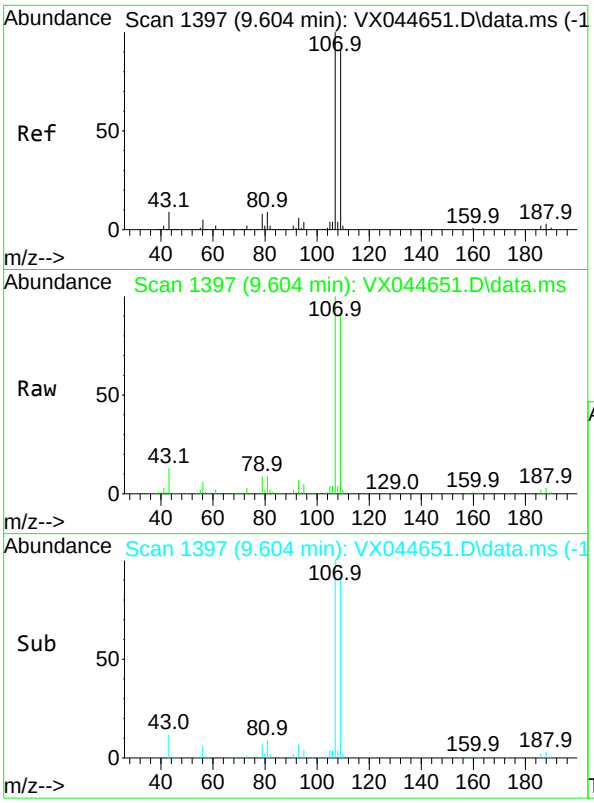




#60
Dibromochloromethane
Concen: 47.816 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:129 Resp: 133941

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.0 | 38.5 | 115.5 |



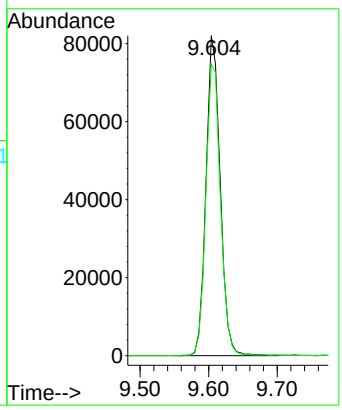


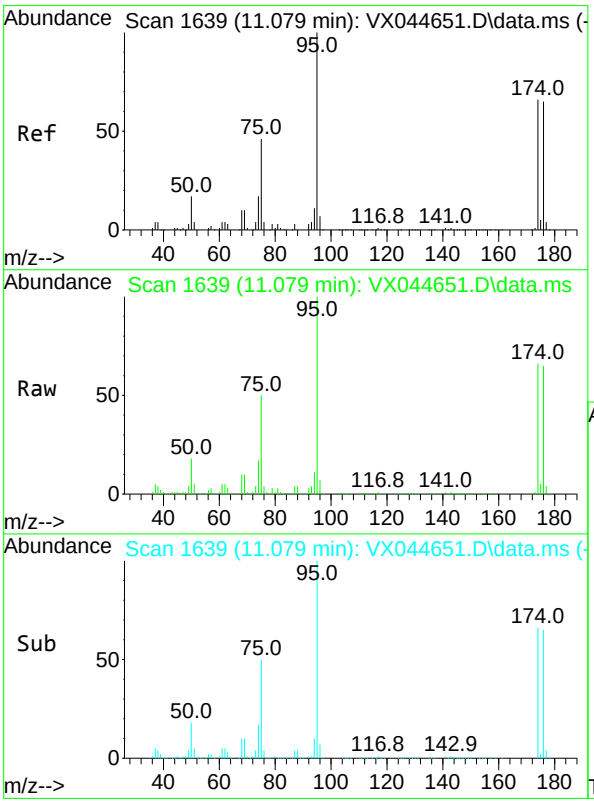

#61
1,2-Dibromoethane
Concen: 47.331 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:107 Resp: 118382

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.1 | 75.3 | 112.9 |

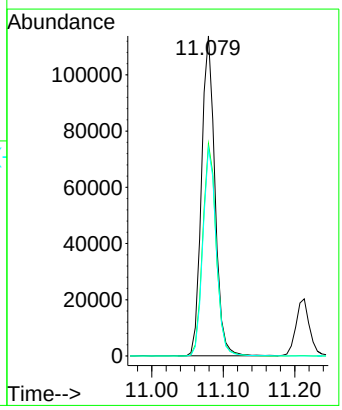


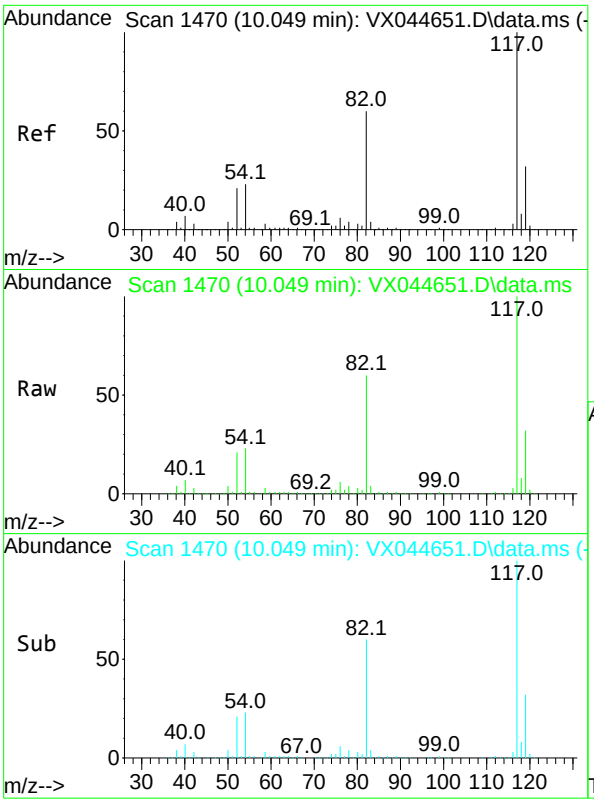




#62
4-Bromofluorobenzene
Concen: 51.037 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 95 Resp: 148223

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.5 | 0.0 | 133.0 |
| 176 | 64.7 | 0.0 | 129.4 |



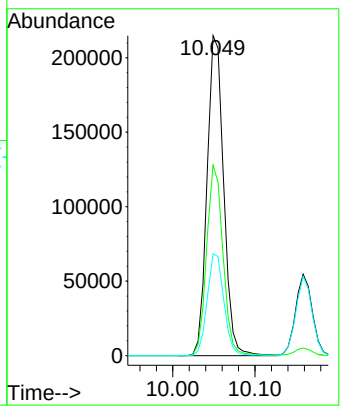


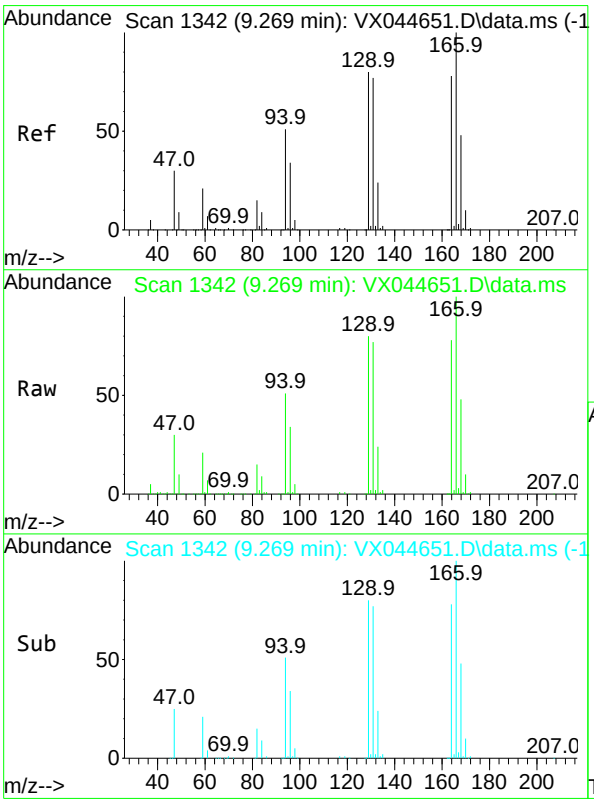

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:117 Resp: 301141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.5 | 47.6 | 71.4 |
| 119 | 31.8 | 25.4 | 38.2 |

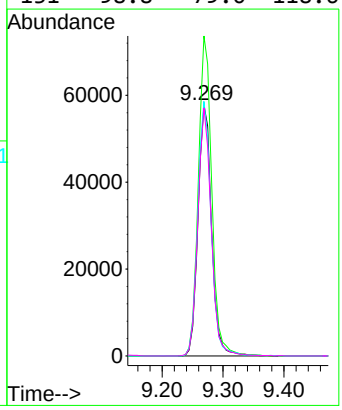


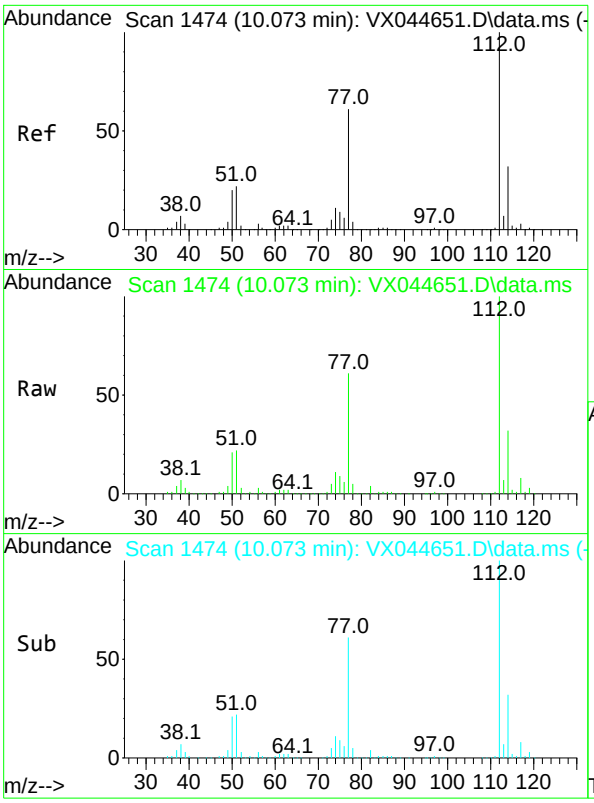




#64
Tetrachloroethene
Concen: 47.145 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:164 Resp: 89149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.5 | 102.0 | 153.0 |
| 129 | 101.4 | 81.1 | 121.7 |
| 131 | 98.8 | 79.0 | 118.6 |



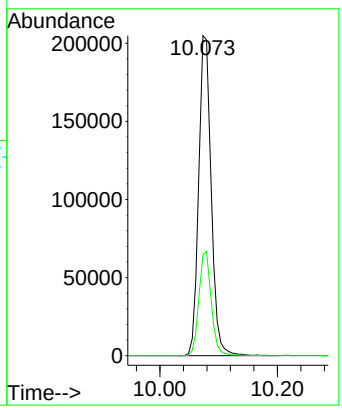


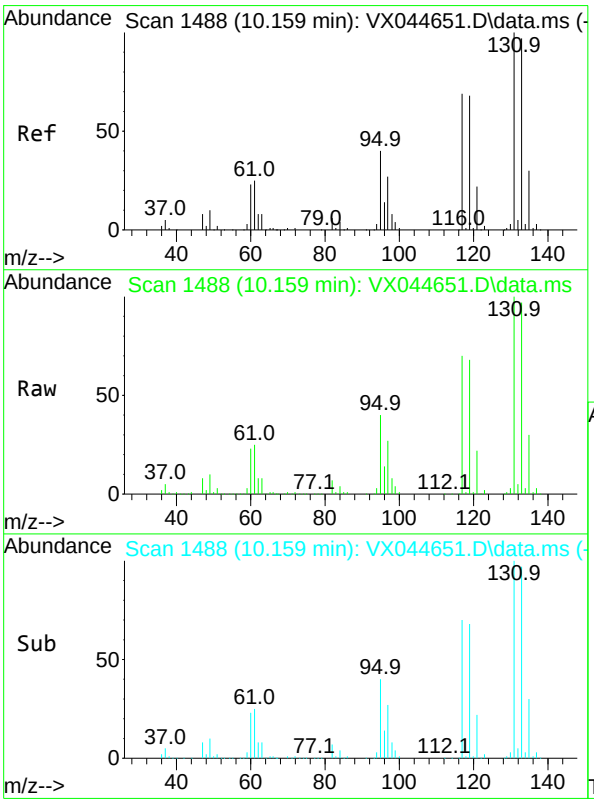

#65
Chlorobenzene
Concen: 47.474 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:112 Resp: 303658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.6 | 25.3 | 37.9 |

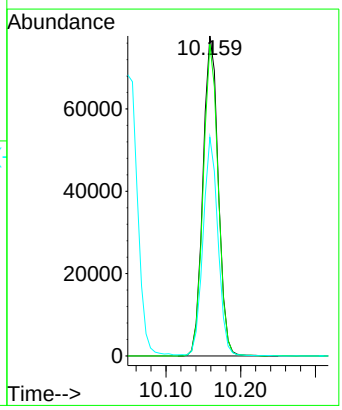


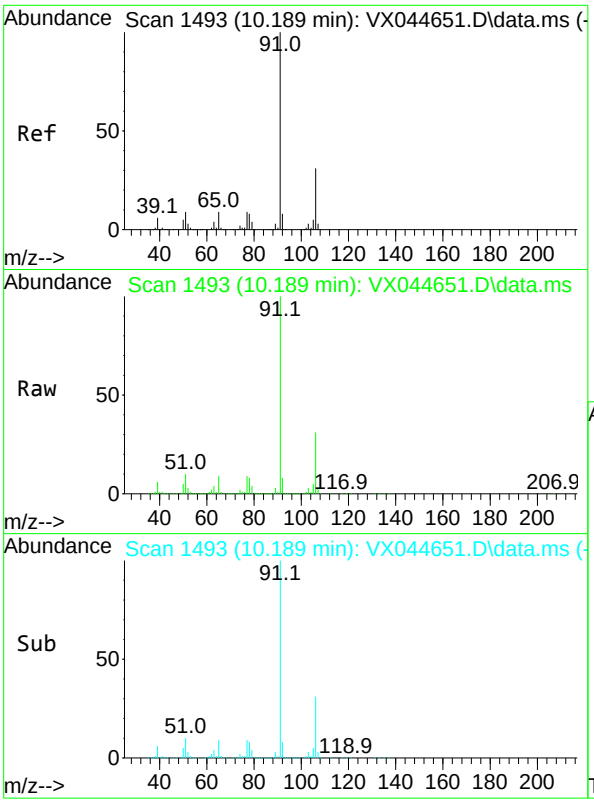




#66
1,1,1,2-Tetrachloroethane
Concen: 47.490 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:131 Resp: 110395

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.5 | 47.8 | 143.3 |
| 119 | 66.8 | 33.4 | 100.2 |



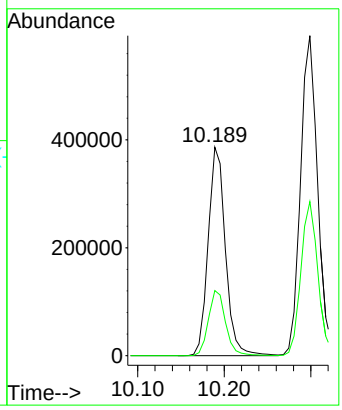


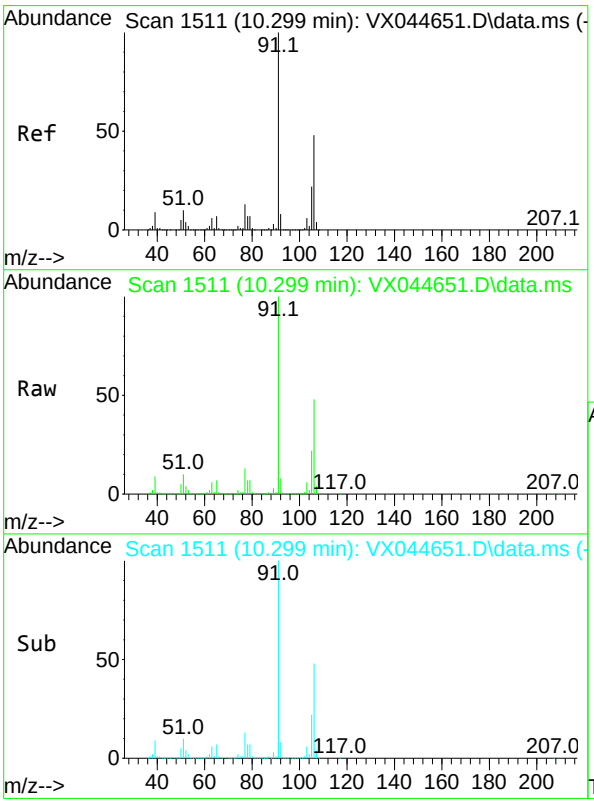

#67
Ethyl Benzene
Concen: 48.000 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 535714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.3 | 25.0 | 37.6 |

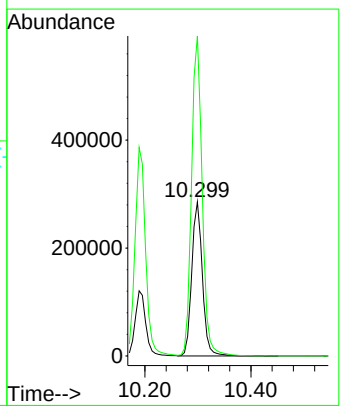


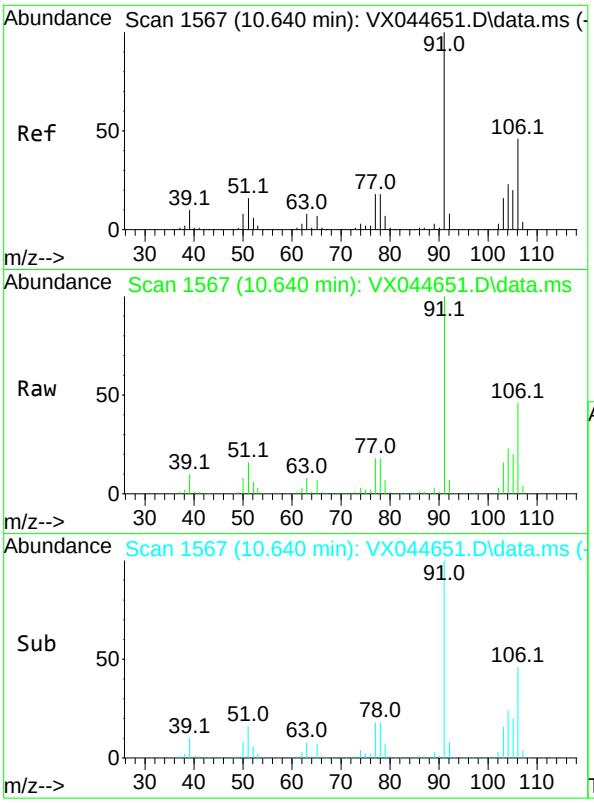




#68
m/p-Xylenes
Concen: 95.393 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:106 Resp: 395084

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 208.0 | 166.4 | 249.6 |



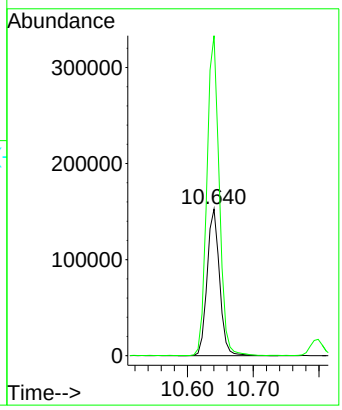


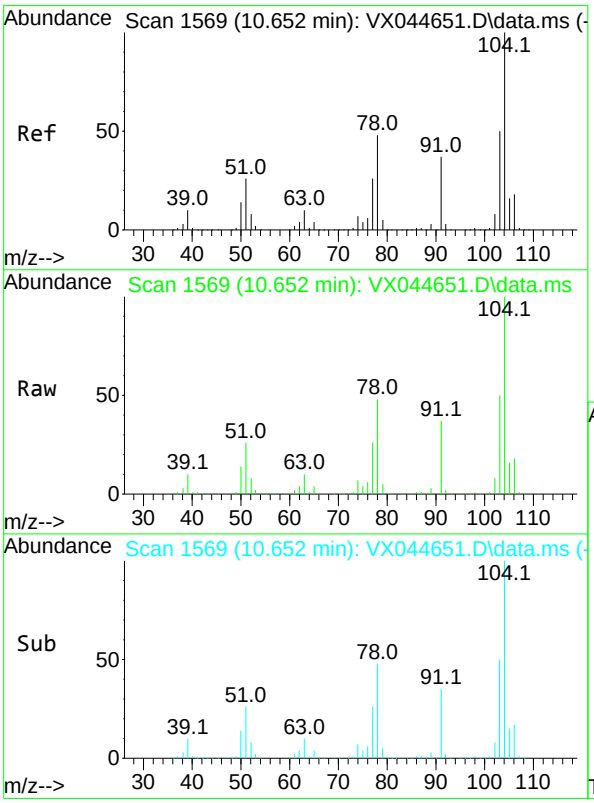

#69
o-Xylene
Concen: 47.845 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:106 Resp: 200396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 217.5 | 108.7 | 326.3 |

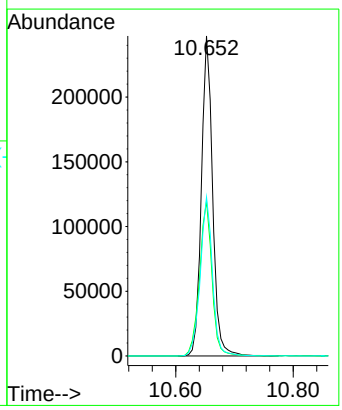


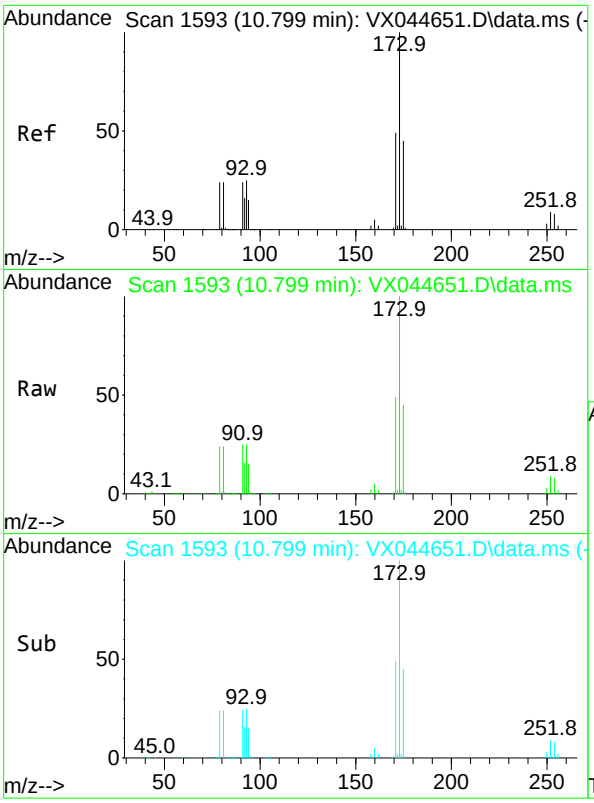




#70
Styrene
Concen: 48.481 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:104 Resp: 327844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.8 | 43.0 | 64.6 |
| 103 | 54.3 | 43.4 | 65.2 |



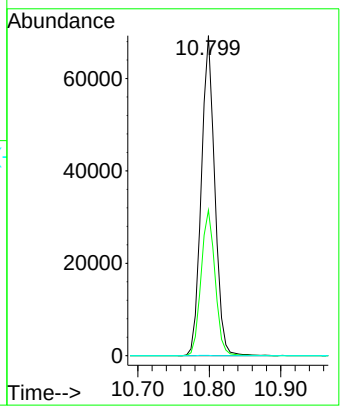


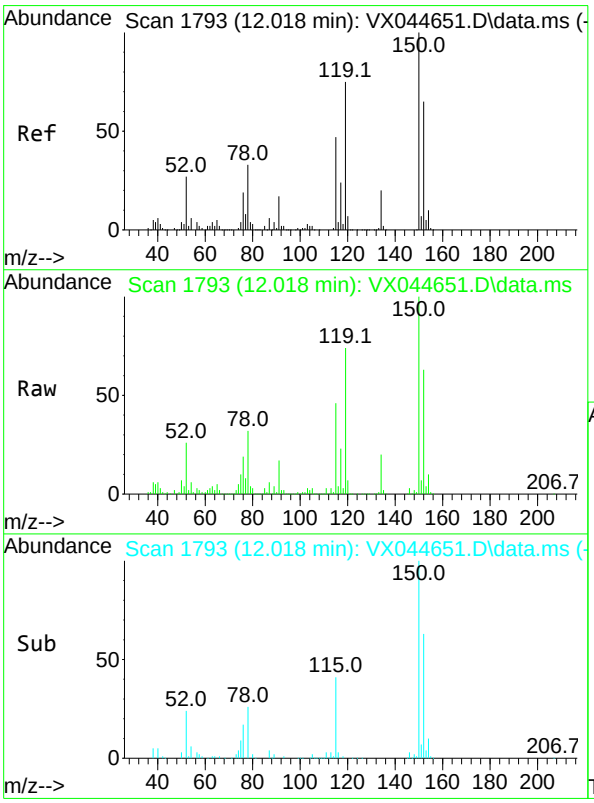

#71
Bromoform
Concen: 48.011 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:173 Resp: 90837

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.2 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1 |

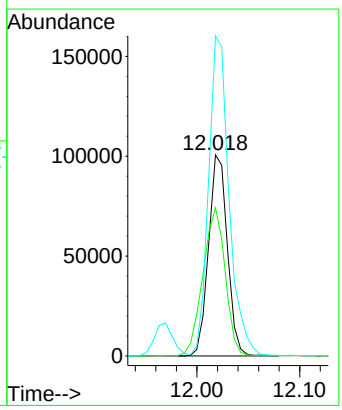


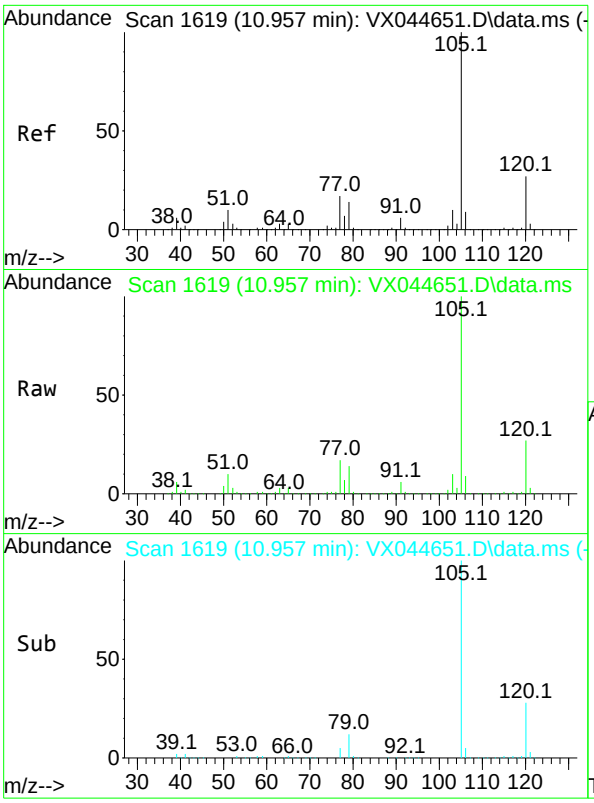




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:152 Resp: 127832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 87.6 | 43.8 | 131.4 |
| 150 | 173.9 | 0.0 | 347.8 |



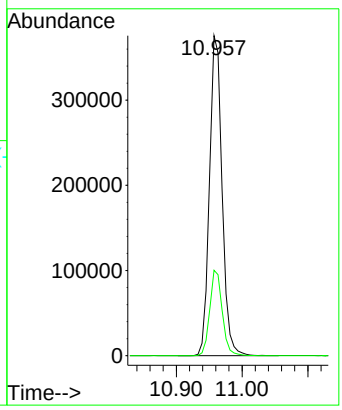


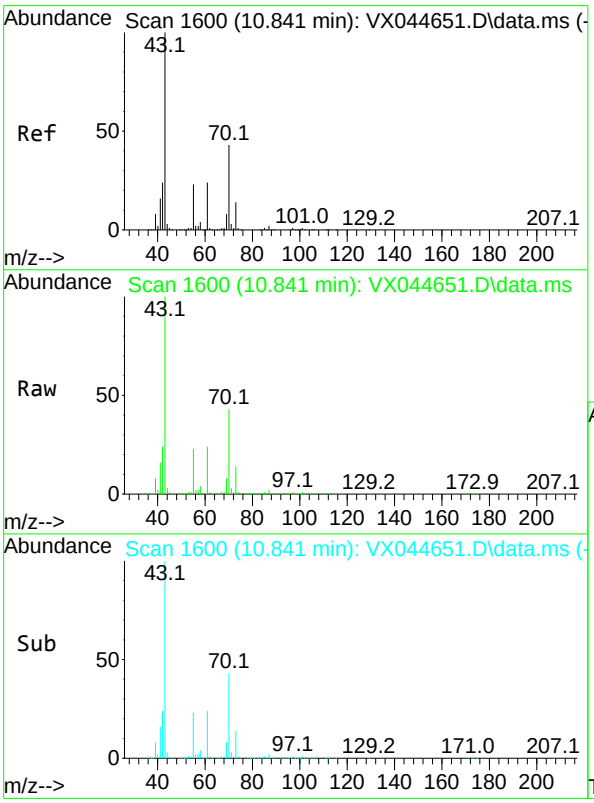

#73
Isopropylbenzene
Concen: 47.943 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 500669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.2 | 39.6 |

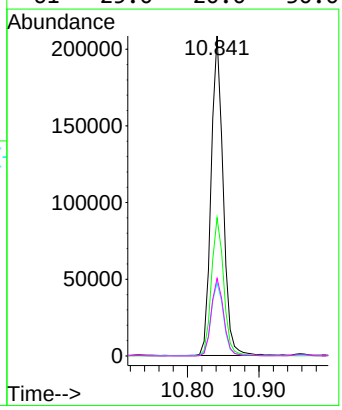


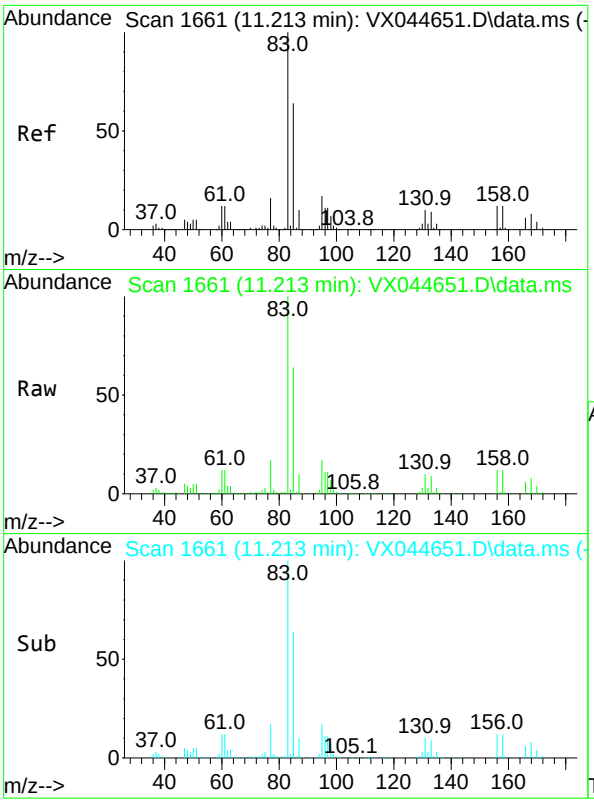




#74
N-amyl acetate
Concen: 47.188 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 43 Resp: 242893

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.0 | 35.2 | 52.8 |
| 55 | 23.7 | 19.0 | 28.4 |
| 61 | 25.0 | 20.0 | 30.0 |



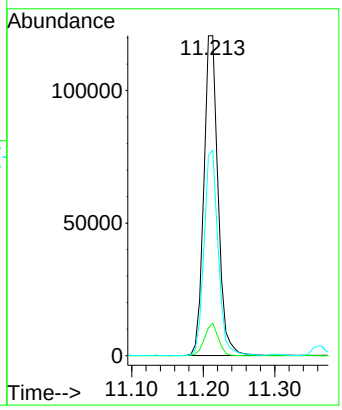


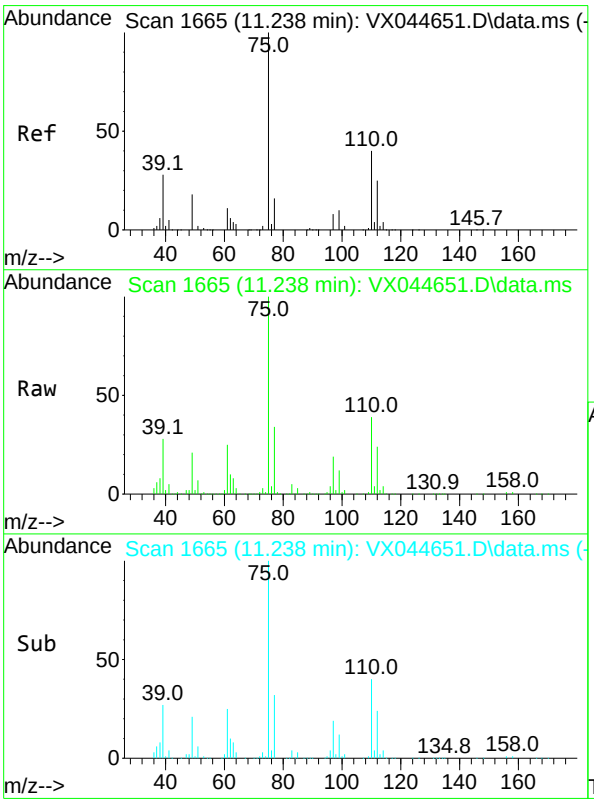

#75
1,1,2,2-Tetrachloroethane
Concen: 46.155 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 83 Resp: 166468

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.0 | 14.9 |
| 85 | 64.1 | 32.0 | 96.2 |

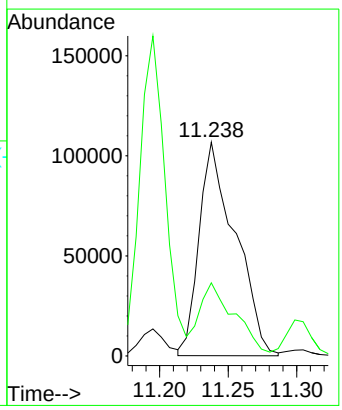


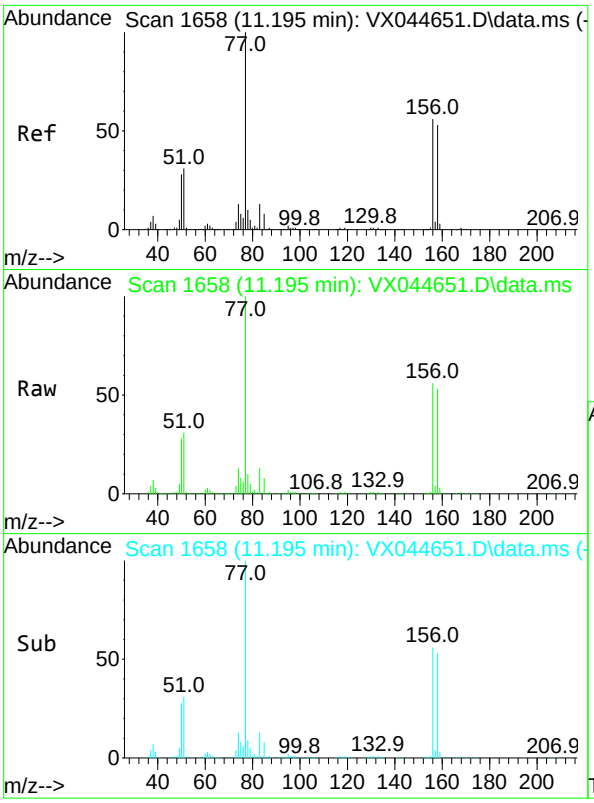




#76
1,2,3-Trichloropropane
Concen: 63.379 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 75 Resp: 196621

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.5 | 23.4 | 70.2 |



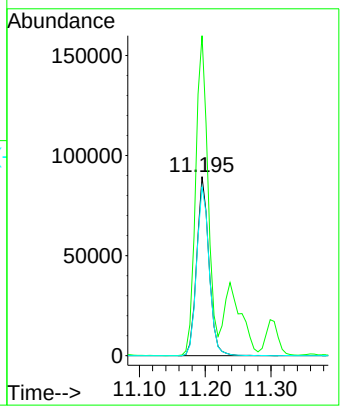


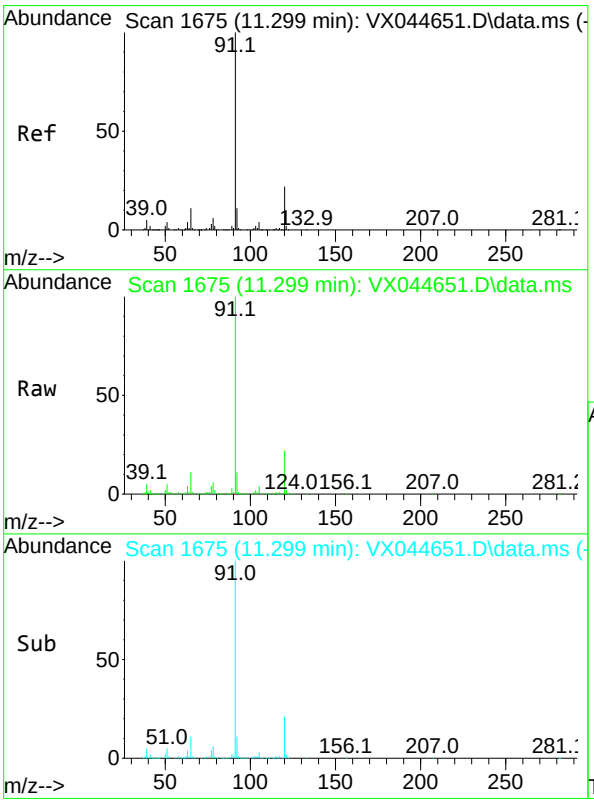

#77
Bromobenzene
Concen: 47.268 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:156 Resp: 115377

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 180.7 | 90.3 | 271.0 |
| 158 | 96.9 | 48.4 | 145.3 |

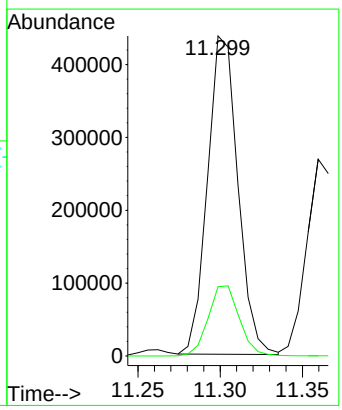


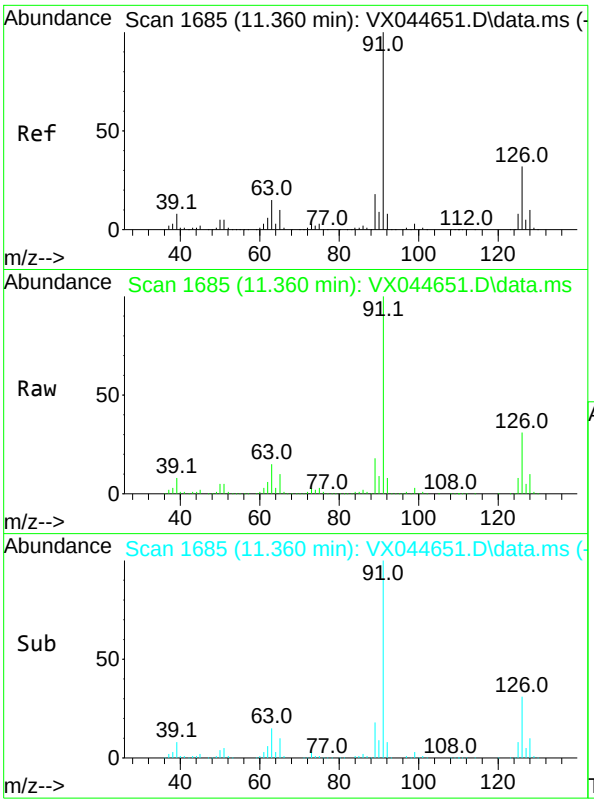




#78
n-propylbenzene
Concen: 48.746 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 91 Resp: 561396

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.4 | 34.1 |



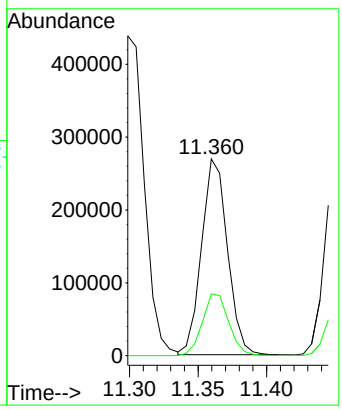


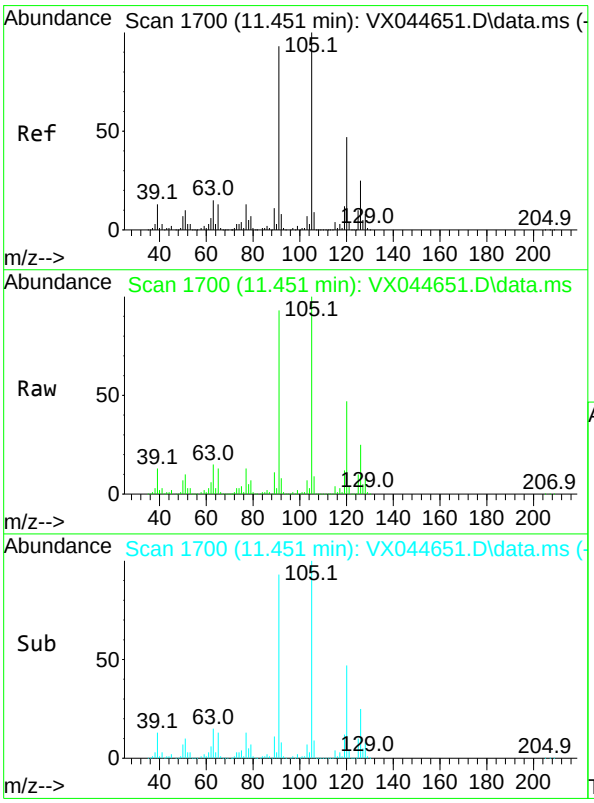

#79
2-Chlorotoluene
Concen: 47.474 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 353178

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.3 | 16.2 | 48.5 |

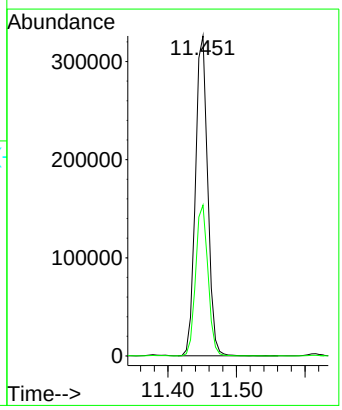


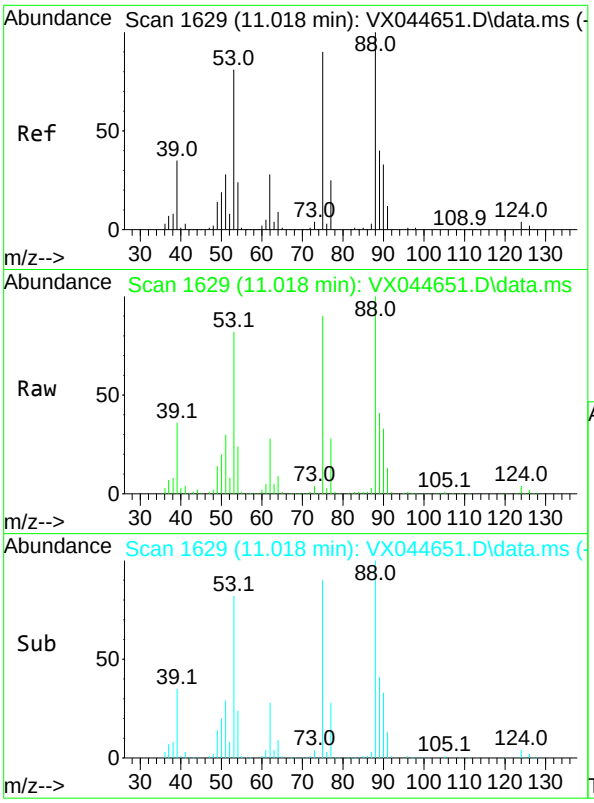




#80
1,3,5-Trimethylbenzene
Concen: 47.918 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:105 Resp: 407362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.4 | 23.7 | 71.1 |



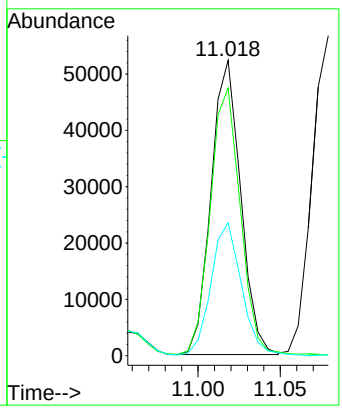


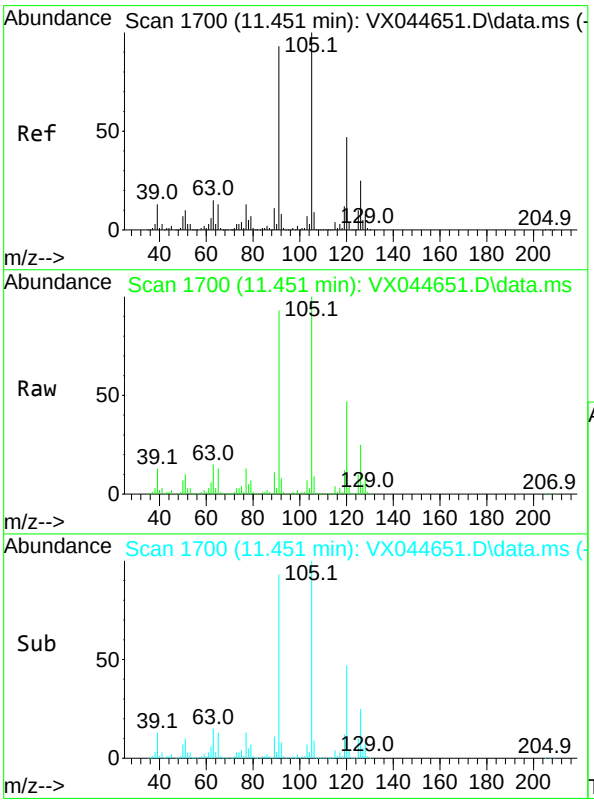

#81
trans-1,4-Dichloro-2-butene
Concen: 48.266 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 75 Resp: 65476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 92.9 | 74.3 | 111.5 |
| 89 | 46.7 | 37.4 | 56.0 |

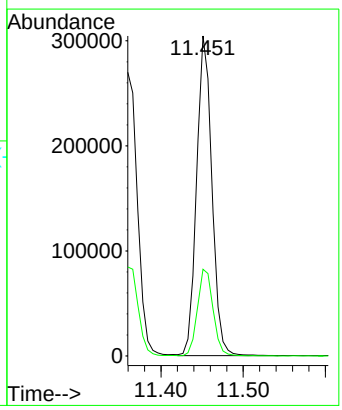


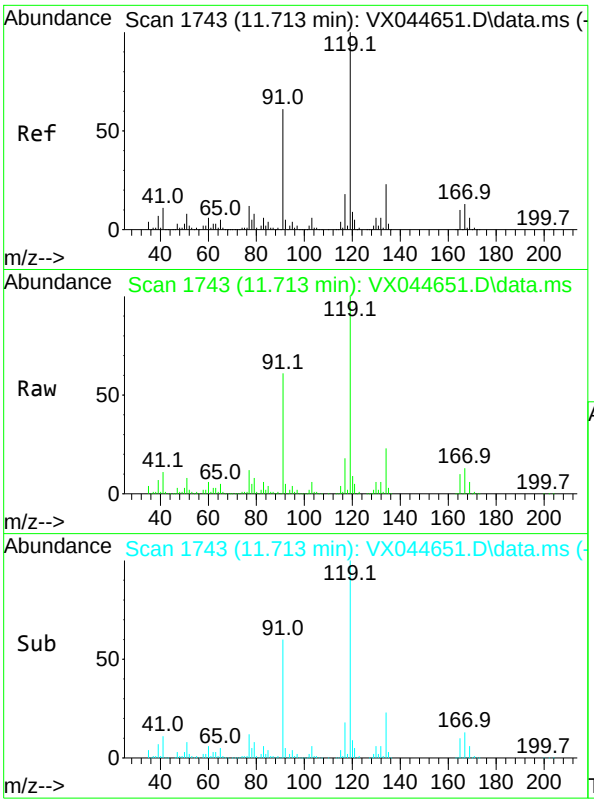




#82
4-Chlorotoluene
Concen: 48.238 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 91 Resp: 393120

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.8 | 13.9 | 41.7 |



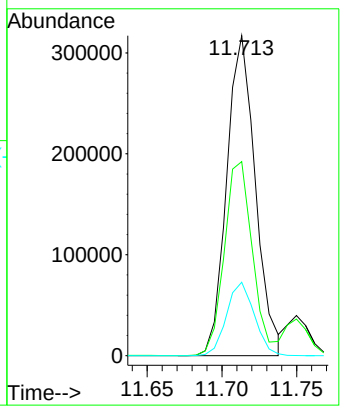


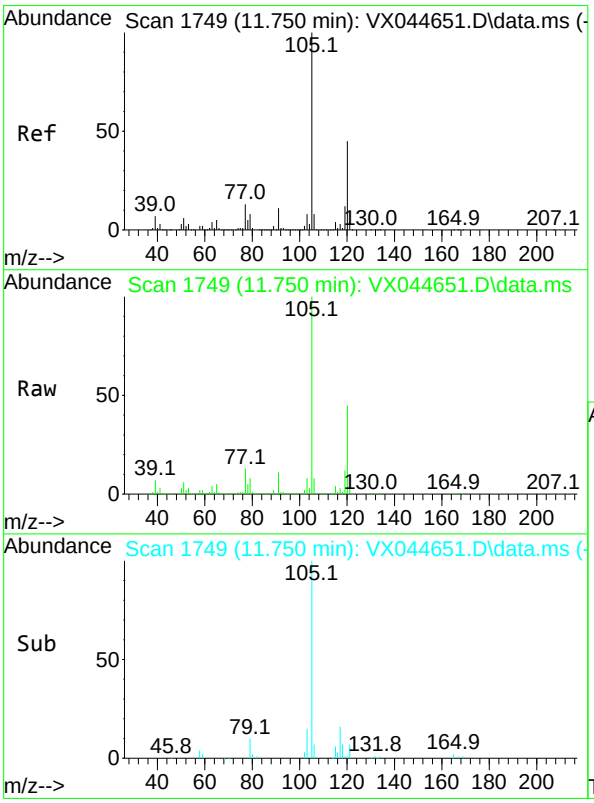

#83
tert-Butylbenzene
Concen: 47.513 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:119 Resp: 422348

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 60.0 | 30.0 | 90.0 |
| 134 | 22.3 | 11.2 | 33.5 |

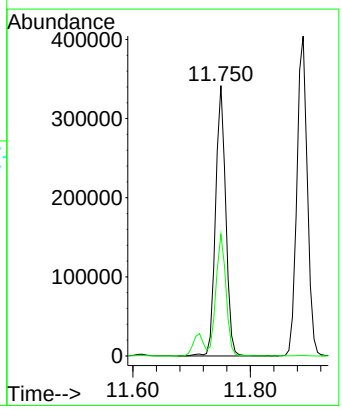


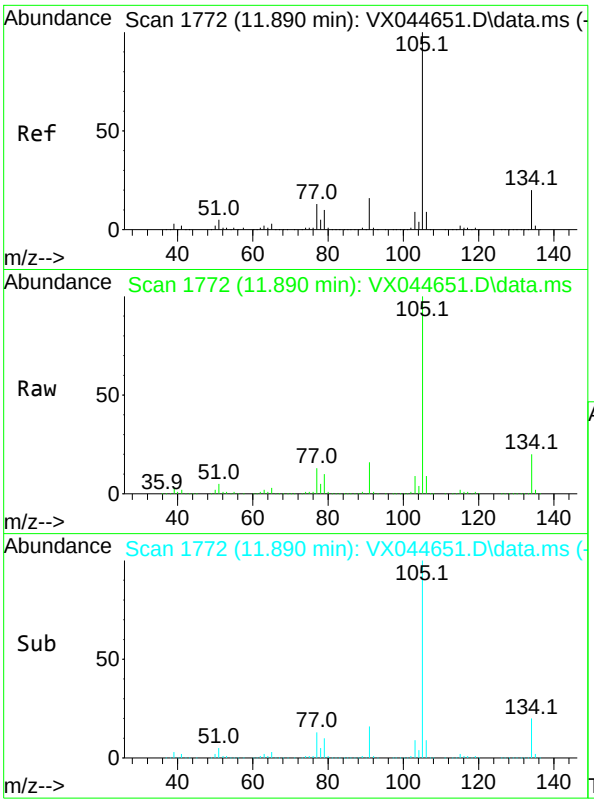




#84
1,2,4-Trimethylbenzene
Concen: 47.515 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:105 Resp: 410477

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 22.2 | 66.6 |



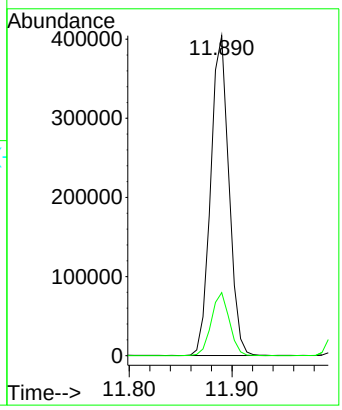


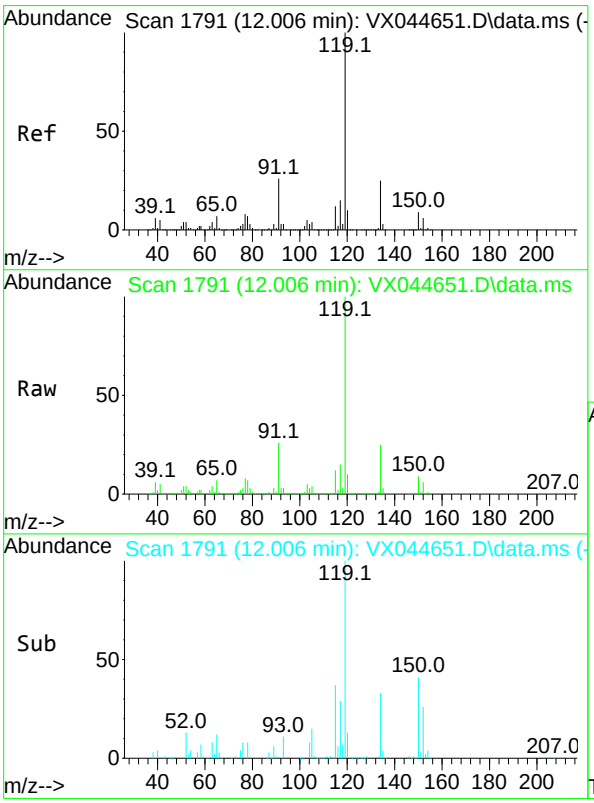

#85
sec-Butylbenzene
Concen: 48.113 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:105 Resp: 497964

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.7 | 9.8 | 29.5 |

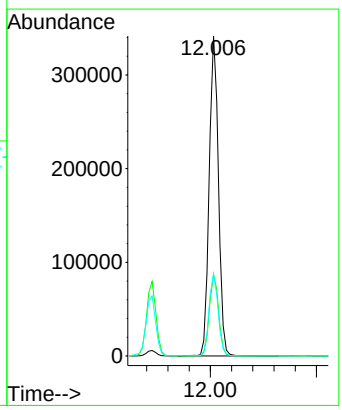


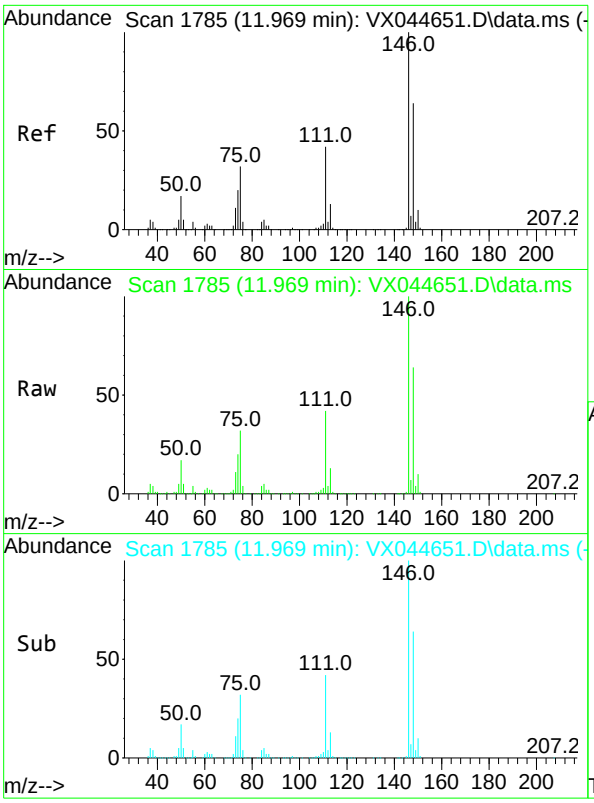




#86
p-Isopropyltoluene
Concen: 48.421 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:119 Resp: 411853

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.6 | 12.8 | 38.4 |
| 91 | 25.4 | 12.7 | 38.1 |



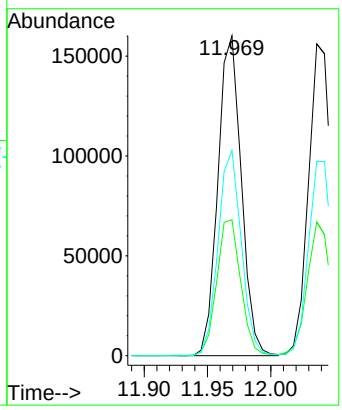


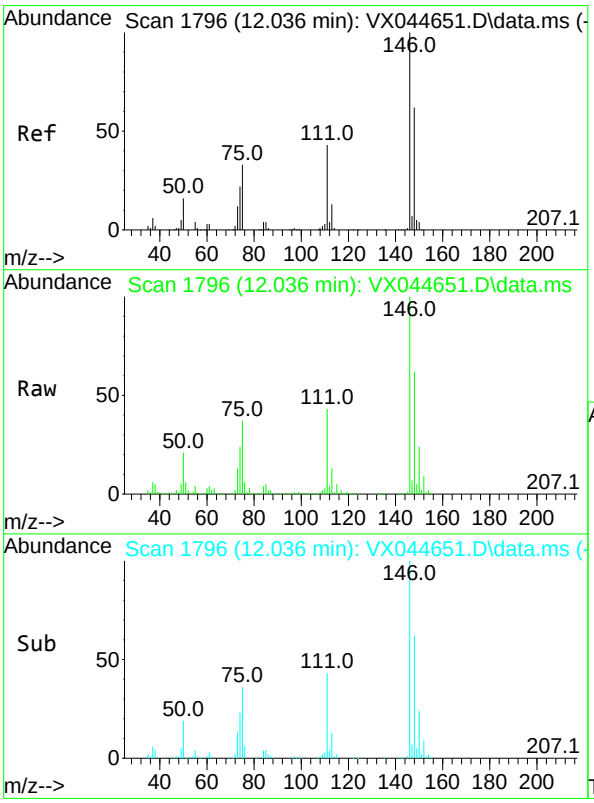

#87
1,3-Dichlorobenzene
Concen: 48.720 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 206233

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.8 | 21.9 | 65.7 |
| 148 | 63.6 | 31.8 | 95.4 |

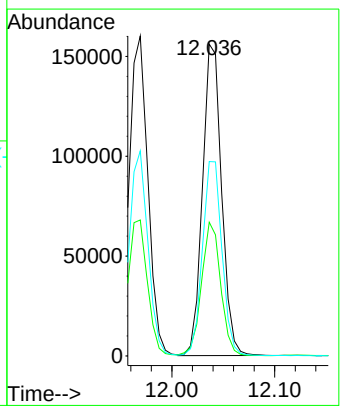


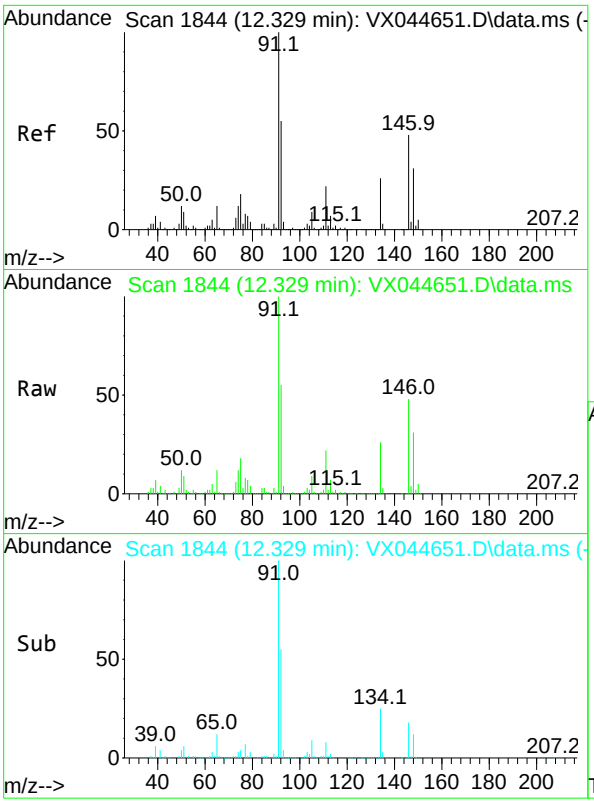




#88
1,4-Dichlorobenzene
Concen: 47.105 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:146 Resp: 201574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 21.5 | 64.5 |
| 148 | 64.3 | 32.1 | 96.5 |



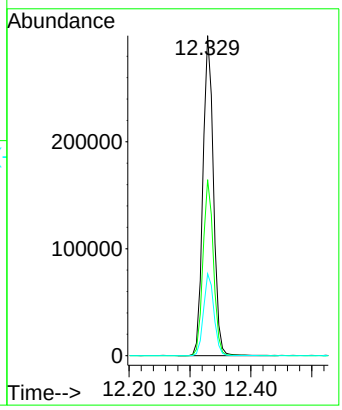


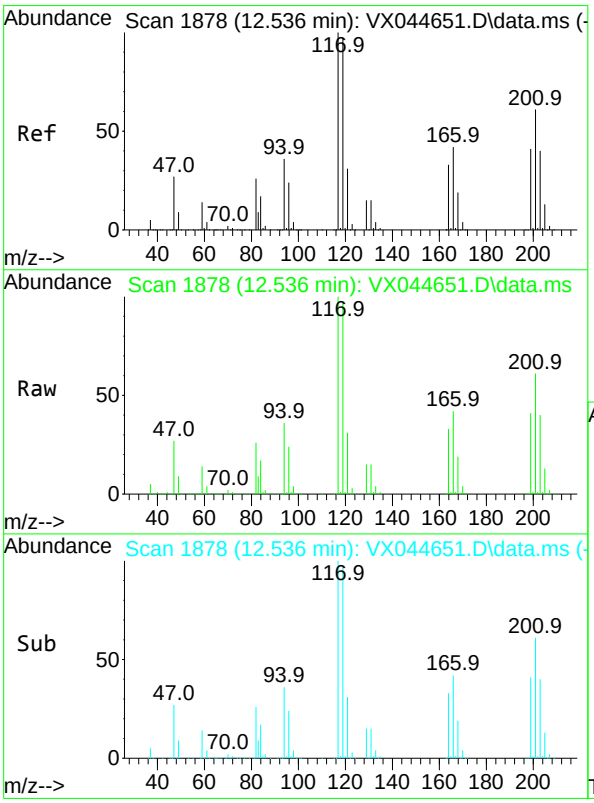

#89
n-Butylbenzene
Concen: 49.100 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion: 91 Resp: 358698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.7 | 27.4 | 82.0 |
| 134 | 25.5 | 12.8 | 38.3 |

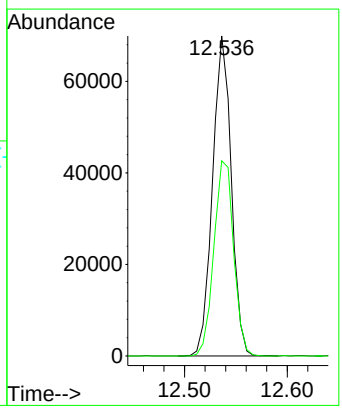


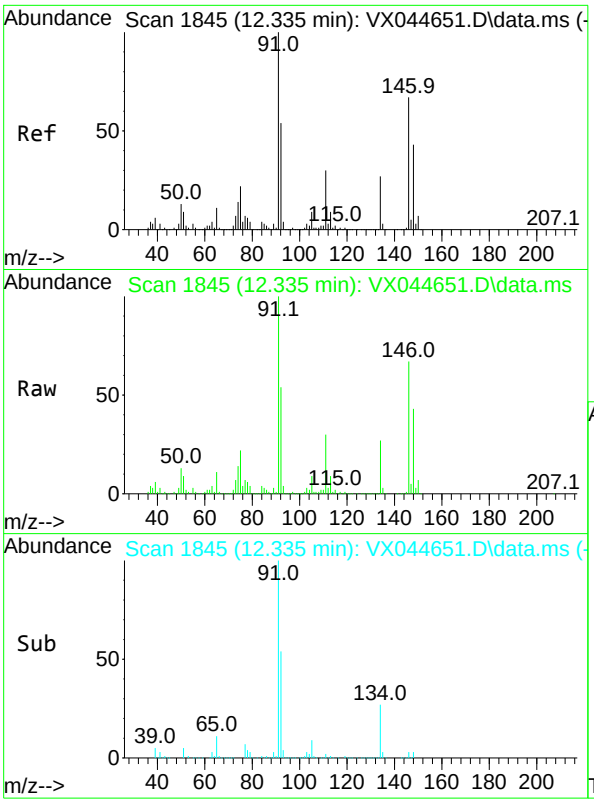




#90
Hexachloroethane
Concen: 45.808 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:117 Resp: 88230

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.5 | 32.3 | 96.8 |



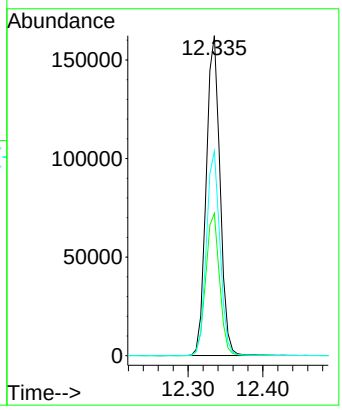


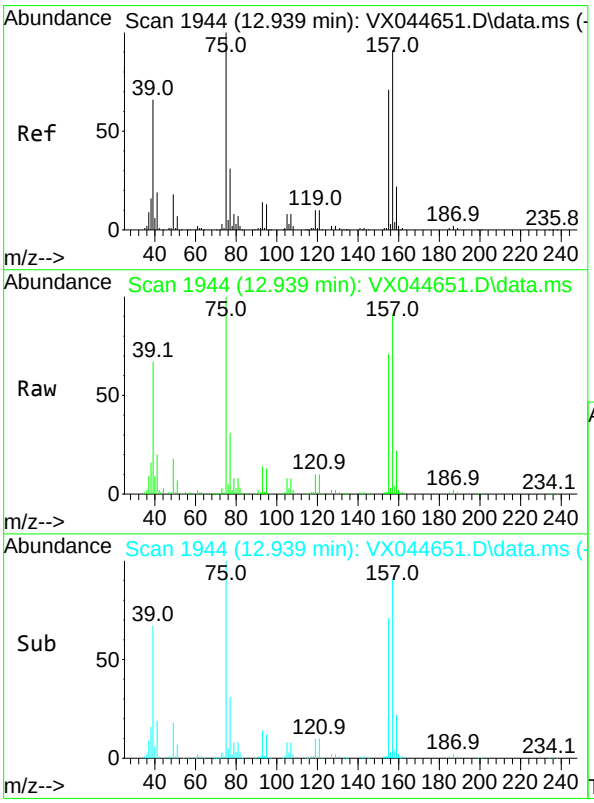

#91
1,2-Dichlorobenzene
Concen: 47.824 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:146 Resp: 207903

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.8 | 22.4 | 67.2 |
| 148 | 63.2 | 31.6 | 94.8 |

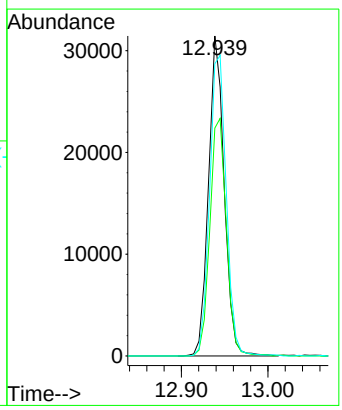


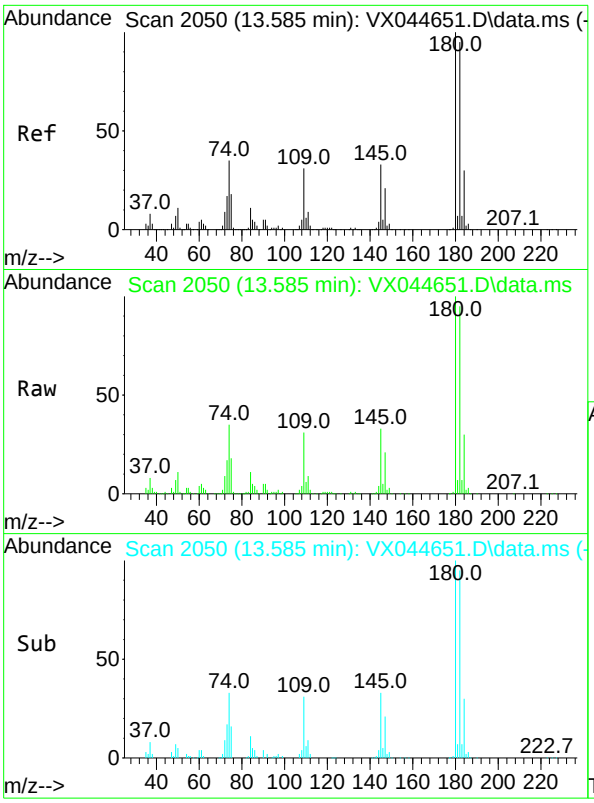




#92
1,2-Dibromo-3-Chloropropane
Concen: 44.962 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion: 75 Resp: 39659

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 77.9 | 39.0 | 116.9 |
| 157 | 99.8 | 49.9 | 149.7 |



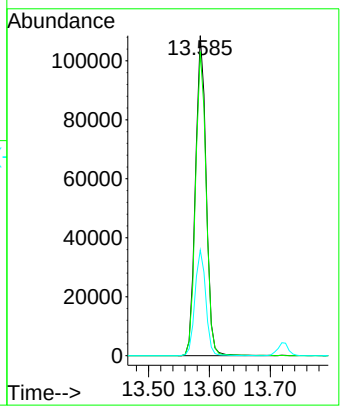


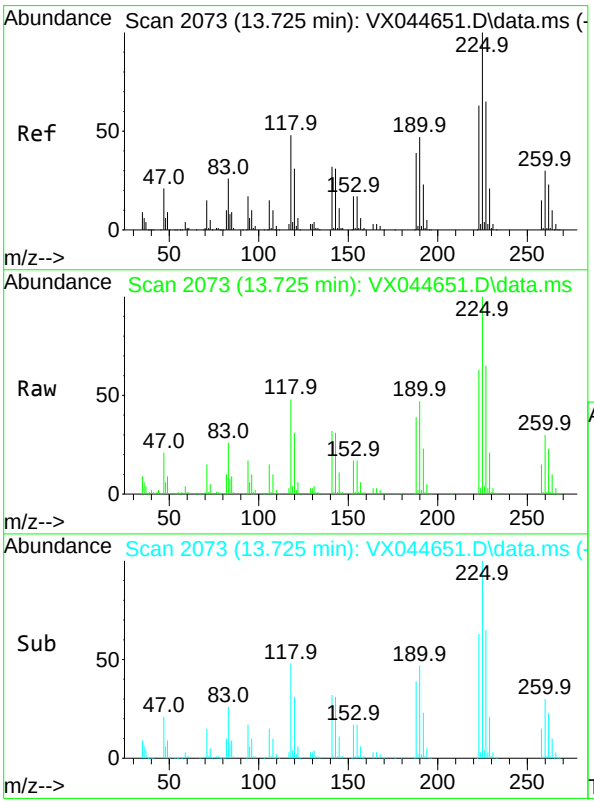

#93
1,2,4-Trichlorobenzene
Concen: 50.708 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:180 Resp: 131779

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.4 | 142.2 |
| 145 | 33.4 | 16.7 | 50.1 |

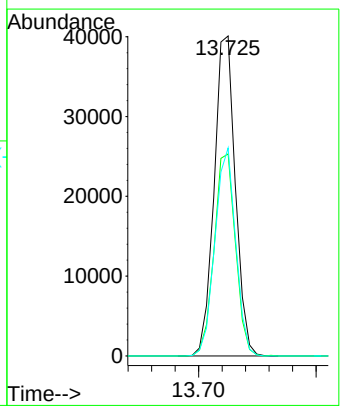


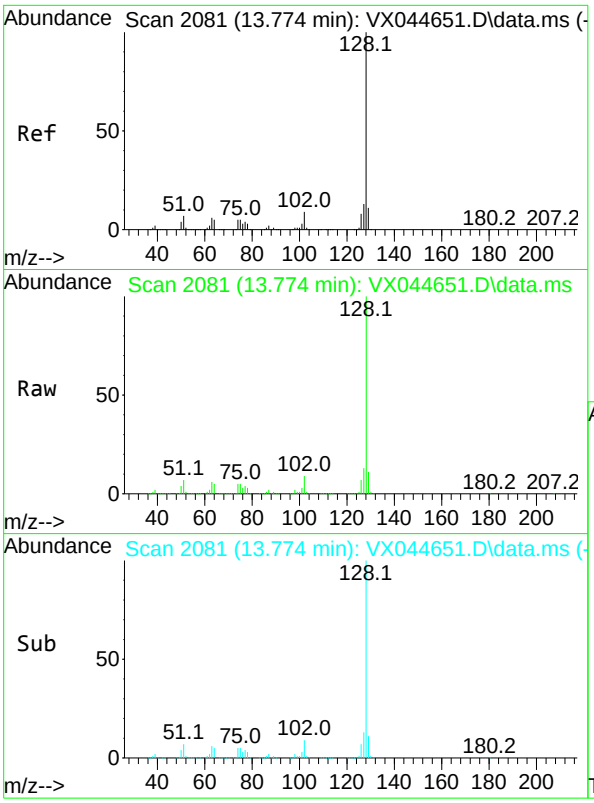




#94
Hexachlorobutadiene
Concen: 49.230 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:225 Resp: 50255

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.8 | 31.9 | 95.7 |
| 227 | 63.6 | 31.8 | 95.4 |



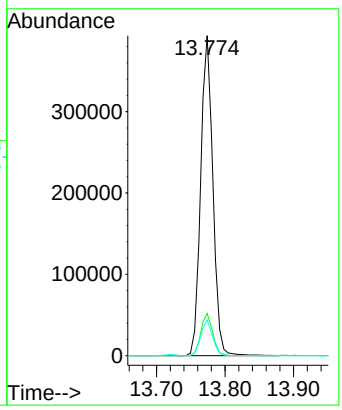


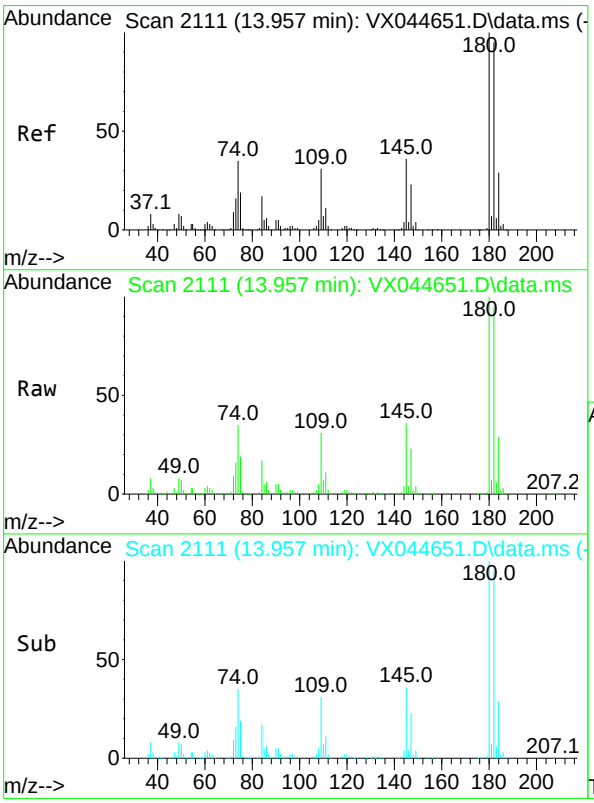

#95
Naphthalene
Concen: 48.639 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICCC050

Tgt Ion:128 Resp: 487525

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 10.9 | 8.7 | 13.1 |

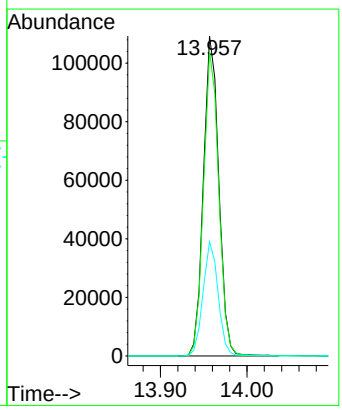



#96
1,2,3-Trichlorobenzene
Concen: 50.047 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044651.D
Acq: 15 Jan 2025 12:02

Tgt Ion:180 Resp: 134816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.4 | 47.2 | 141.6 |
| 145 | 35.1 | 17.5 | 52.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044652.D
Acq On : 15 Jan 2025 13:14
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Quant Time: Jan 30 04:56:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.538 | 168 | 170573 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 308450 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 255886 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 110019 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 235193 | 91.349 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 182.700%# | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 181010 | 92.374 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 184.740%# | | | |
| 50) Toluene-d8 | 8.641 | 98 | 617688 | 90.404 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 180.800%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 236119 | 92.702 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 185.400%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 256287 | 111.657 | ug/l | 99 |
| 3) Chloromethane | 1.301 | 50 | 232745 | 93.768 | ug/l | 100 |
| 4) Vinyl Chloride | 1.374 | 62 | 238376 | 97.198 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 57815 | 98.728 | ug/l | 94 |
| 6) Chloroethane | 1.660 | 64 | 42244 | 93.931 | ug/l | 97 |
| 7) Trichlorofluoromethane | 1.861 | 101 | 275756 | 101.736 | ug/l | 99 |
| 8) Diethyl Ether | 2.130 | 74 | 99765 | 91.205 | ug/l | 97 |
| 9) 1,1,2-Trichlorotrifluo... | 2.313 | 101 | 203976 | 100.109 | ug/l | 99 |
| 10) Methyl Iodide | 2.441 | 142 | 272297 | 97.884 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.983 | 59 | 132596 | 231.012 | ug/l # | 85 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 194870 | 97.570 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 116830 | 432.534 | ug/l | 98 |
| 14) Allyl chloride | 2.654 | 41 | 358388 | 92.162 | ug/l | 100 |
| 15) Acrylonitrile | 3.062 | 53 | 560841 | 498.179 | ug/l | 100 |
| 16) Acetone | 2.386 | 43 | 527741 | 518.081 | ug/l | 100 |
| 17) Carbon Disulfide | 2.495 | 76 | 529418 | 97.144 | ug/l | 99 |
| 18) Methyl Acetate | 2.697 | 43 | 321291 | 102.235 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 681776 | 94.245 | ug/l | 99 |
| 20) Methylene Chloride | 2.776 | 84 | 216105 | 91.100 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 190588 | 91.400 | ug/l | 99 |
| 22) Diisopropyl ether | 3.751 | 45 | 632562 | 93.579 | ug/l | 100 |
| 23) Vinyl Acetate | 3.715 | 43 | 2791754 | 471.863 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 378924 | 94.530 | ug/l | 99 |
| 25) 2-Butanone | 4.550 | 43 | 765500 | 505.435 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.458 | 77 | 357666 | 92.064 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.471 | 96 | 240149 | 91.559 | ug/l | 99 |
| 28) Bromochloromethane | 4.885 | 49 | 179896 | 96.041 | ug/l | 100 |
| 29) Tetrahydrofuran | 4.995 | 42 | 477227 | 488.500 | ug/l | 100 |
| 30) Chloroform | 5.080 | 83 | 373681 | 92.373 | ug/l | 99 |
| 31) Cyclohexane | 5.452 | 56 | 319131 | 98.436 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 5.367 | 97 | 338119 | 90.918 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 255714 | 93.746 | ug/l | 99 |
| 37) Ethyl Acetate | 4.702 | 43 | 300700 | 103.517 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 287048 | 93.555 | ug/l | 99 |
| 39) Methylcyclohexane | 7.367 | 83 | 359758 | 99.352 | ug/l | 98 |
| 40) Benzene | 6.025 | 78 | 785626 | 92.946 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044652.D
Acq On : 15 Jan 2025 13:14
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Quant Time: Jan 30 04:56:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.910 | 41 | 168481 | 99.535 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 292036 | 94.663 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.330 | 43 | 512598 | 95.925 | ug/l | | 99 |
| 44) Trichloroethene | 7.117 | 130 | 199570 | 98.212 | ug/l | | 96 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 200877 | 94.413 | ug/l | | 99 |
| 46) Dibromomethane | 7.568 | 93 | 150112 | 92.680 | ug/l | | 98 |
| 47) Bromodichloromethane | 7.812 | 83 | 307990 | 92.723 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.684 | 41 | 248667 | 100.250 | ug/l | | 100 |
| 49) 1,4-Dioxane | 7.665 | 88 | 101384 | 1959.056 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 1372888 | 464.897 | ug/l | | 100 |
| 52) Toluene | 8.708 | 92 | 474392 | 91.697 | ug/l | | 100 |
| 53) t-1,3-Dichloropropene | 8.970 | 75 | 330982 | 96.446 | ug/l | | 98 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 349516 | 93.927 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 192326 | 91.885 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.110 | 69 | 337626 | 93.812 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 325142 | 91.220 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 817528 | 462.693 | ug/l | | 99 |
| 59) 2-Hexanone | 9.427 | 43 | 1019940 | 469.454 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 227418 | 92.570 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 202247 | 92.200 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 157748 | 98.176 | ug/l | | 98 |
| 65) Chlorobenzene | 10.073 | 112 | 510916 | 94.003 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 184816 | 93.565 | ug/l | | 100 |
| 67) Ethyl Benzene | 10.189 | 91 | 909208 | 95.872 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 661488 | 187.963 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 329336 | 92.536 | ug/l | | 99 |
| 70) Styrene | 10.653 | 104 | 547016 | 95.197 | ug/l | | 100 |
| 71) Bromoform | 10.799 | 173 | 155379 | 96.648 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 833874 | 92.779 | ug/l | | 100 |
| 74) N-amyl acetate | 10.842 | 43 | 414046 | 93.463 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 278679 | 89.776 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 341318 | 127.834 | ug/l | | 78 |
| 77) Bromobenzene | 11.195 | 156 | 192700 | 91.729 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 956202 | 96.470 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 584682 | 91.317 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 672586 | 91.926 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 114832 | 98.354 | ug/l | | 99 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 655250 | 93.421 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 690320 | 90.233 | ug/l | | 100 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 681398 | 91.646 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 848327 | 95.235 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 695433 | 94.999 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 353809 | 97.115 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 347517 | 94.359 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 633246 | 100.715 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 149253 | 90.037 | ug/l | | 97 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 340683 | 91.056 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 70862 | 93.344 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 233417 | 104.359 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 88214 | 100.406 | ug/l | | 100 |
| 95) Naphthalene | 13.774 | 128 | 849403 | 98.464 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 232152 | 100.133 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044652.D
Acq On : 15 Jan 2025 13:14
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Quant Time: Jan 30 04:56:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

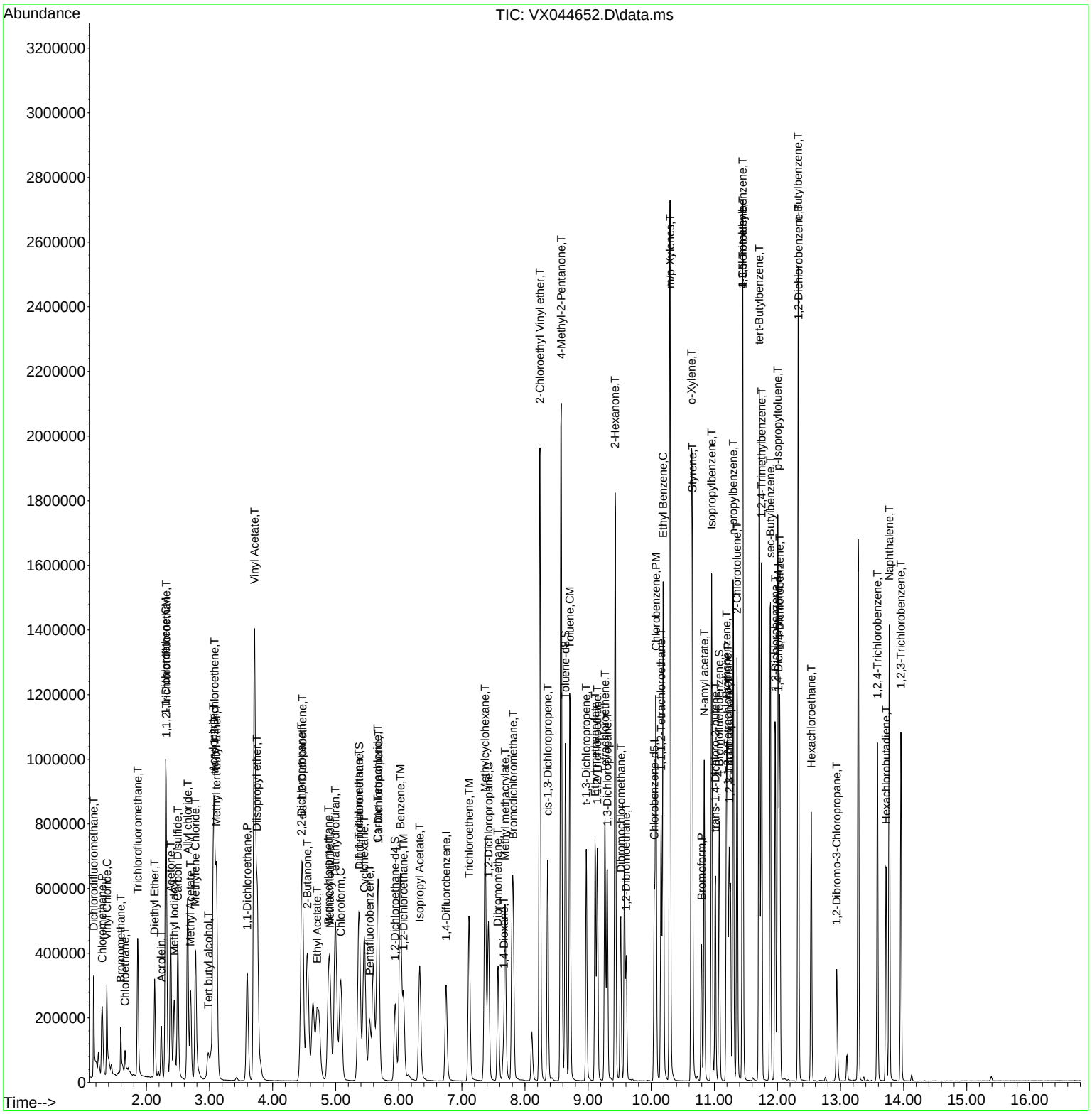
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

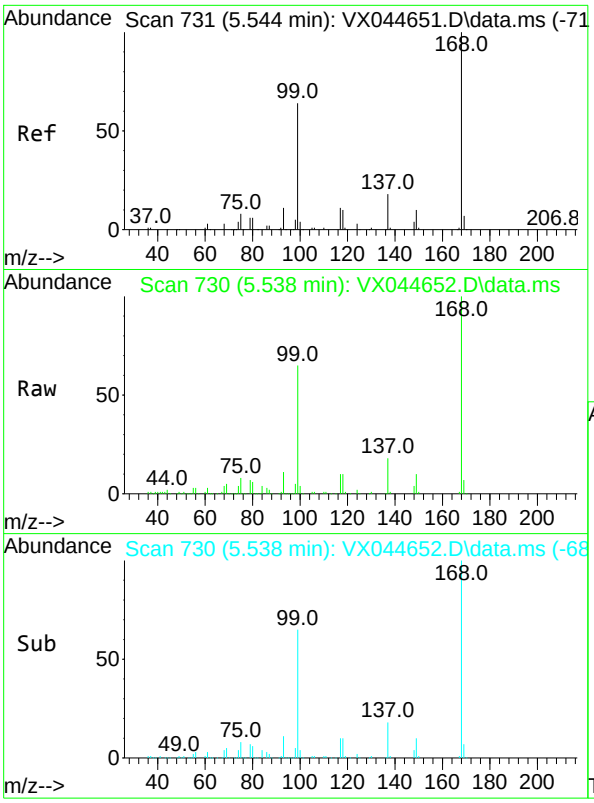
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044652.D
Acq On : 15 Jan 2025 13:14
Operator : JC/MD
Sample : VSTDICC100
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Quant Time: Jan 30 04:56:28 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



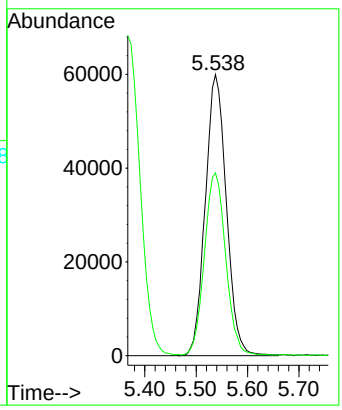


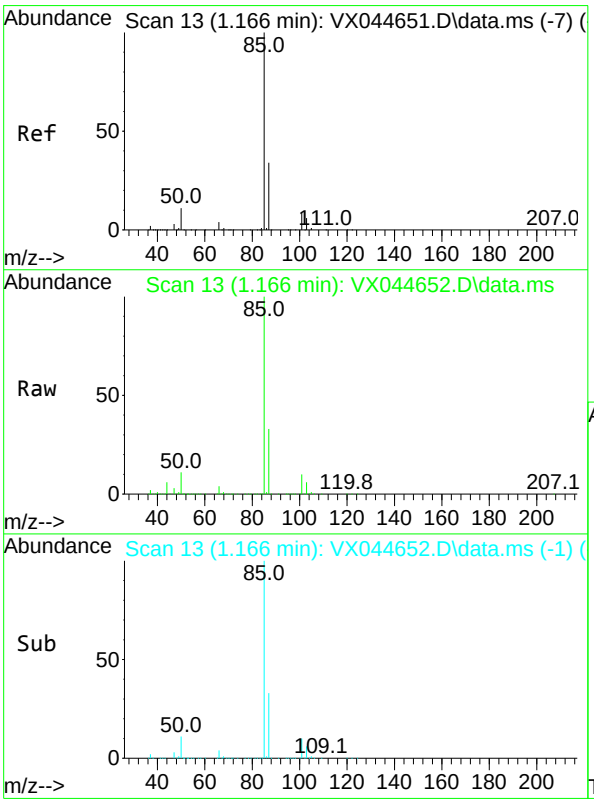

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:168 Resp: 170573

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.8 | 51.1 | 76.7 |

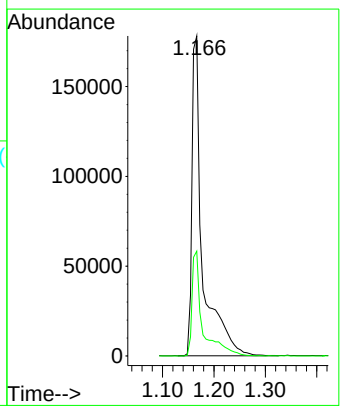


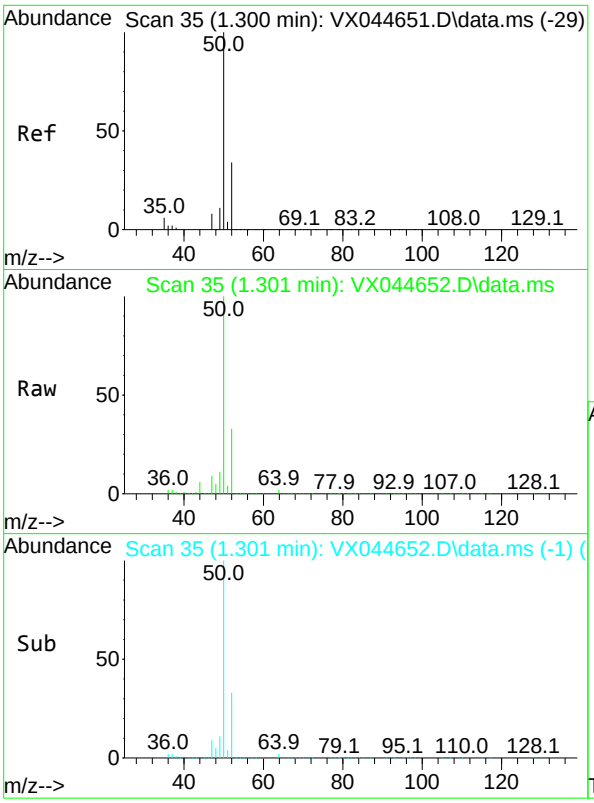




#2
Dichlorodifluoromethane
Concen: 111.657 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 85 Resp: 256287

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.8 | 16.8 | 50.4 |



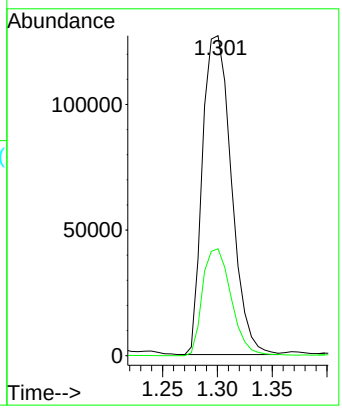


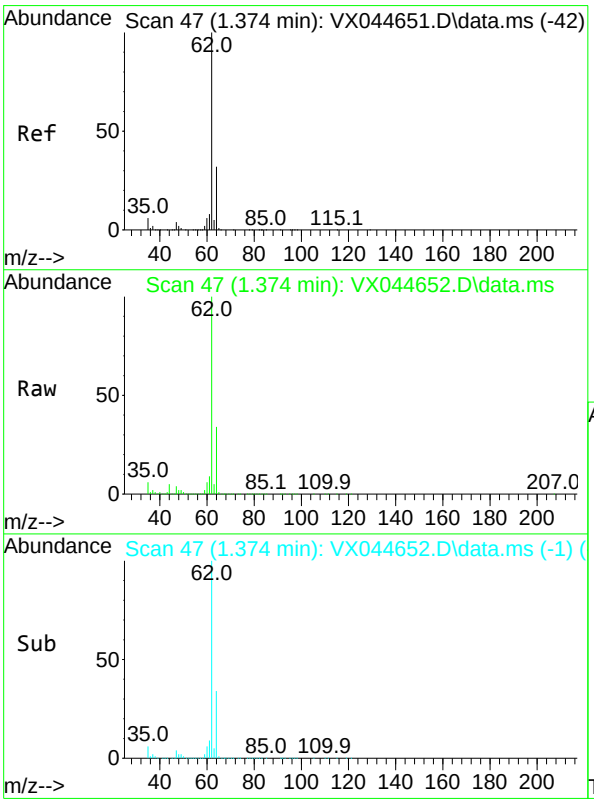

#3
Chloromethane
Concen: 93.768 ug/l
RT: 1.301 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 50 Resp: 232745

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.5 | 27.0 | 40.4 |

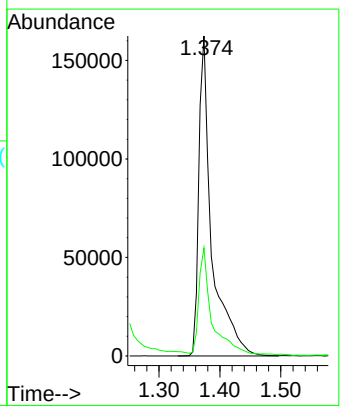


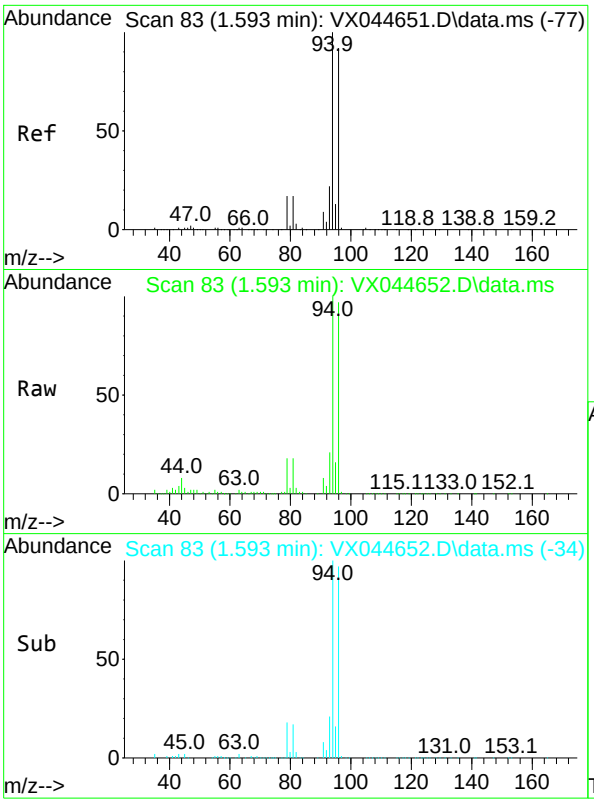




#4
Vinyl Chloride
Concen: 97.198 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 62 Resp: 238376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 33.3 | 26.6 | 39.8 |



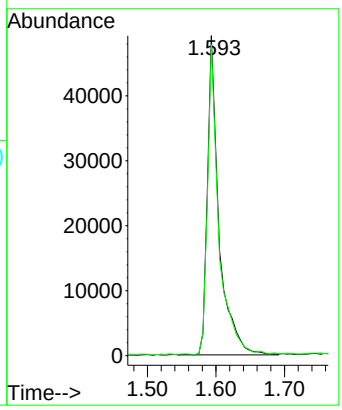


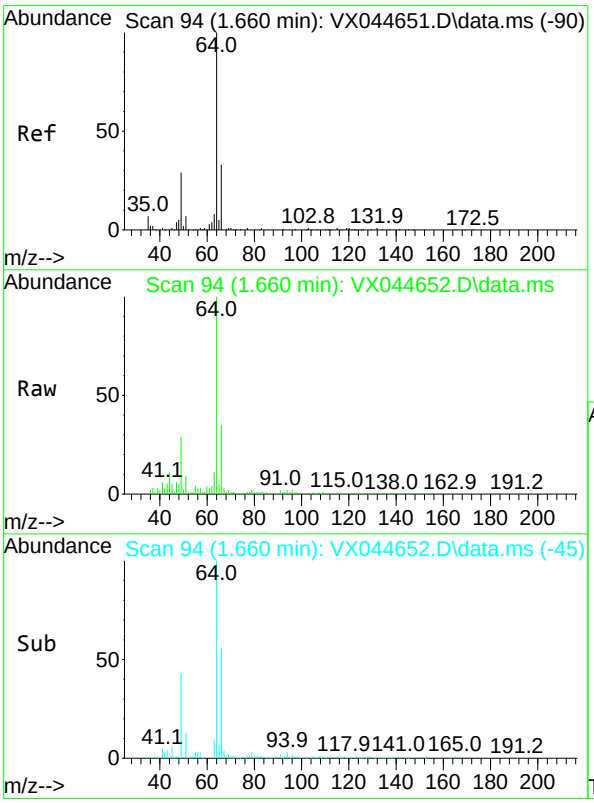

#5
Bromomethane
Concen: 98.728 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 94 Resp: 57815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 97.0 | 72.8 | 109.2 |

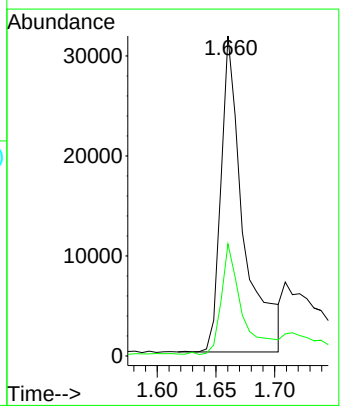


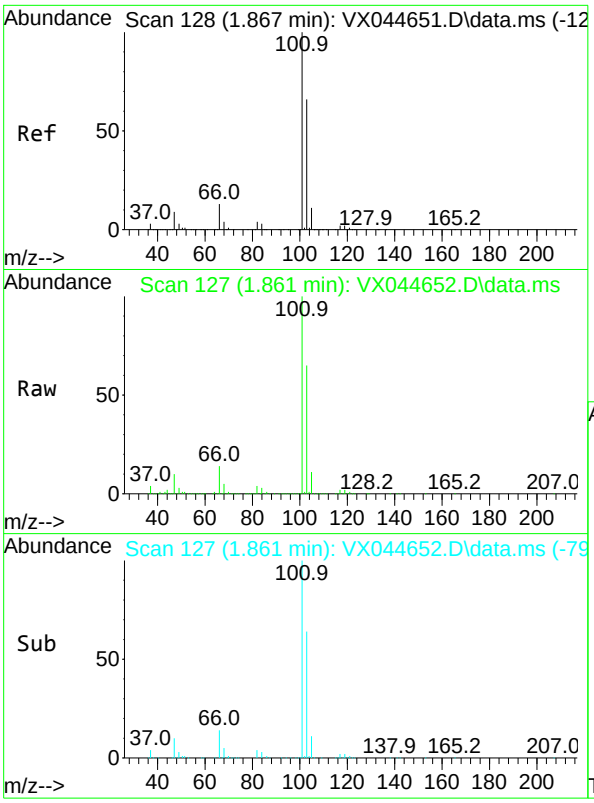




#6
Chloroethane
Concen: 93.931 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 64 Resp: 42244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 34.8 | 26.6 | 39.8 |



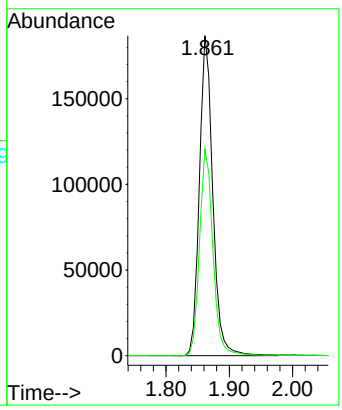


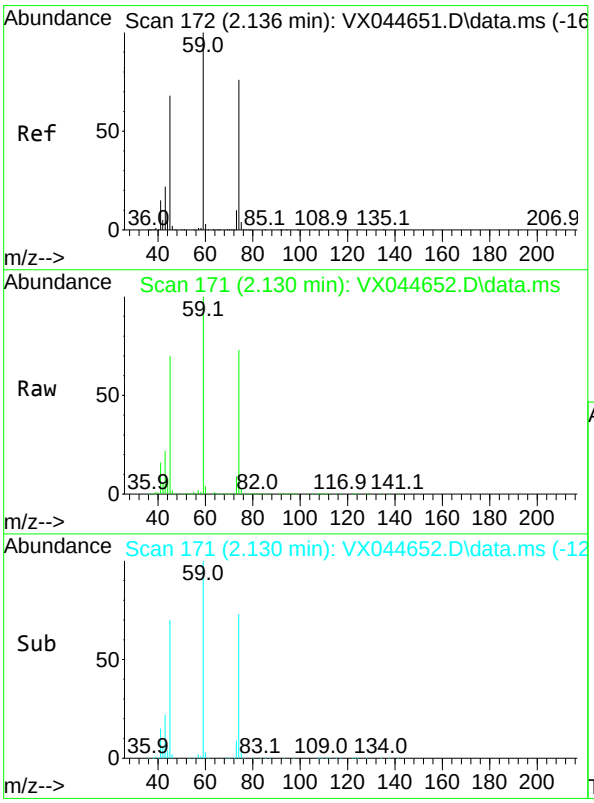

#7
Trichlorofluoromethane
Concen: 101.736 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 275756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.5 | 52.5 | 78.7 |

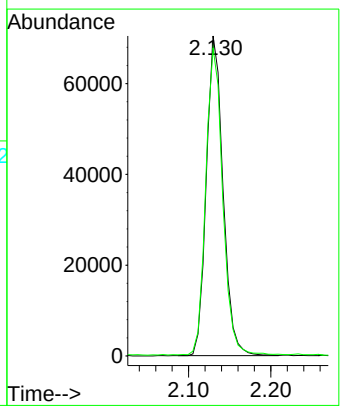


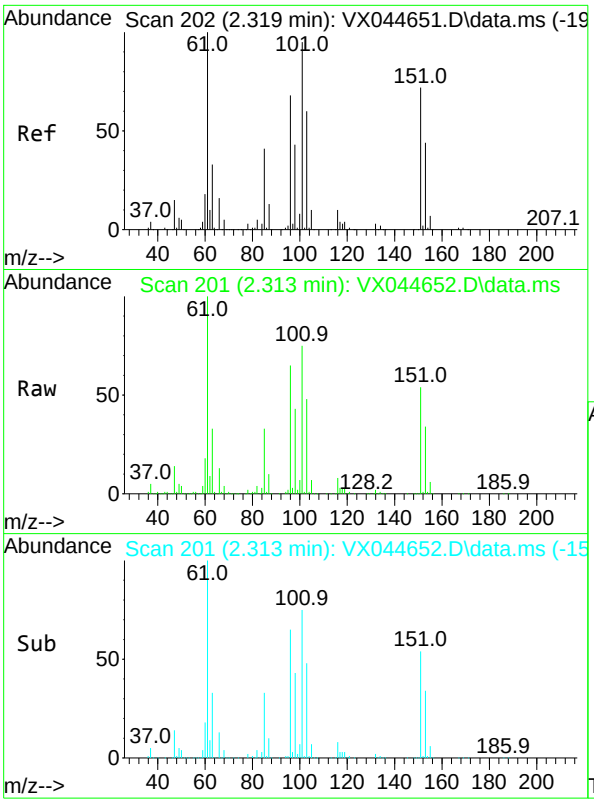




#8
Diethyl Ether
Concen: 91.205 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 74 Resp: 99765

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.0 | 47.1 | 141.3 |



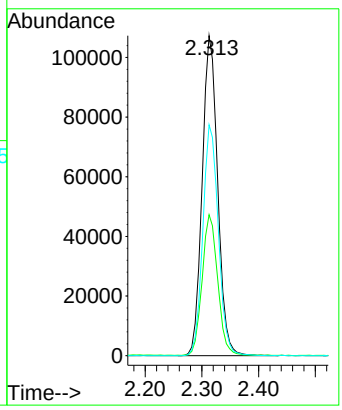


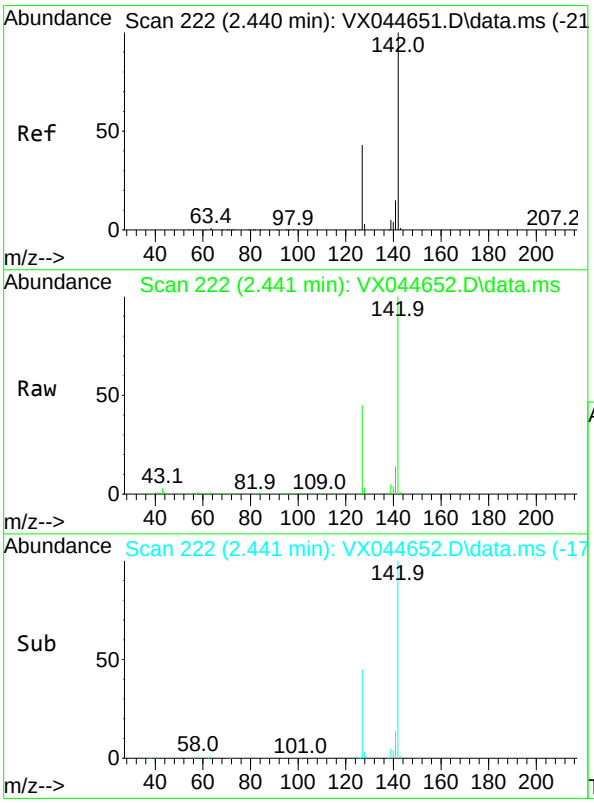

#9
1,1,2-Trichlorotrifluoroethane
Concen: 100.109 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:101 Resp: 203976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.8 | 35.3 | 52.9 |
| 151 | 72.1 | 58.2 | 87.4 |

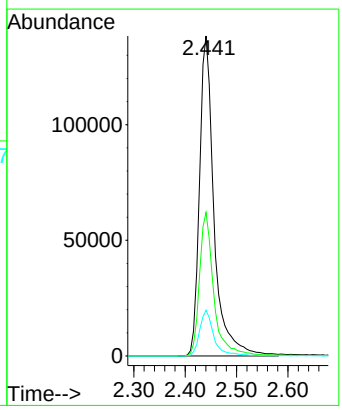


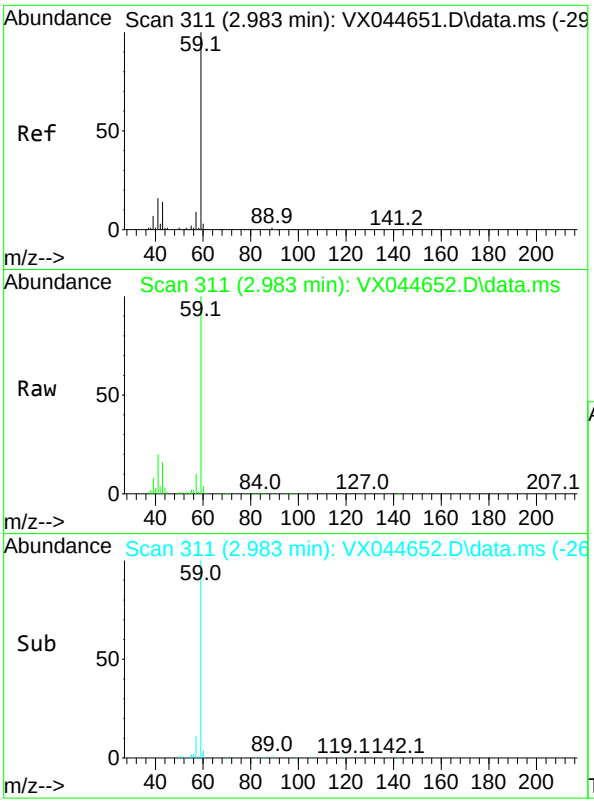




#10
Methyl Iodide
Concen: 97.884 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:142 Resp: 272297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.3 | 35.0 | 52.4 |
| 141 | 14.1 | 11.7 | 17.5 |



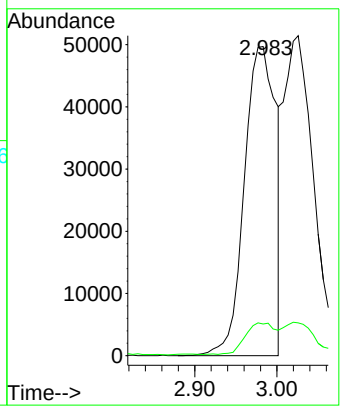


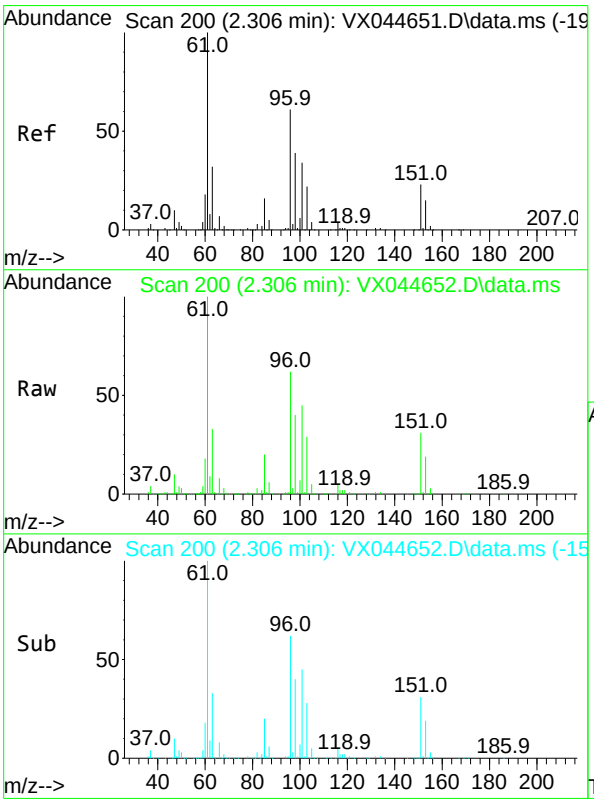

#11
Tert butyl alcohol
Concen: 231.012 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 59 Resp: 132596

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 9.8 | 3.9 | 5.9# |

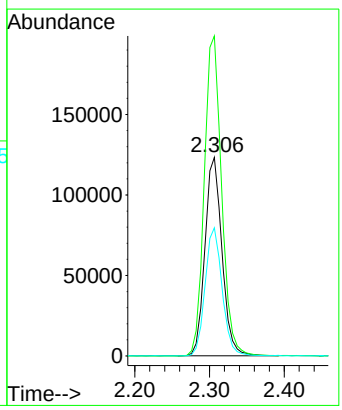


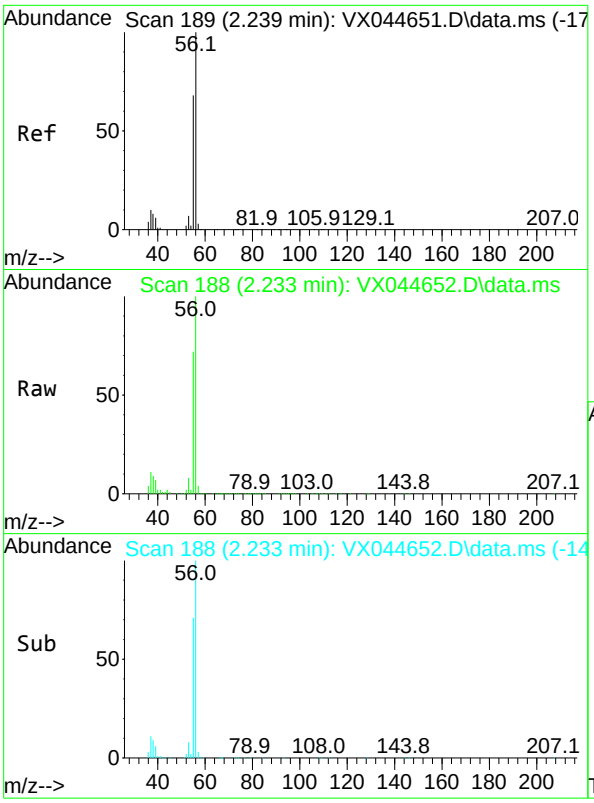




#12
1,1-Dichloroethene
Concen: 97.570 ug/l
RT: 2.306 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 96 Resp: 194870

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.3 | 131.1 | 196.7 |
| 98 | 64.6 | 51.2 | 76.8 |



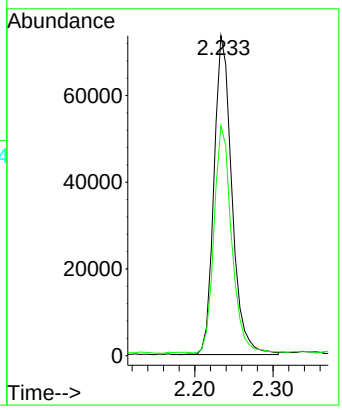


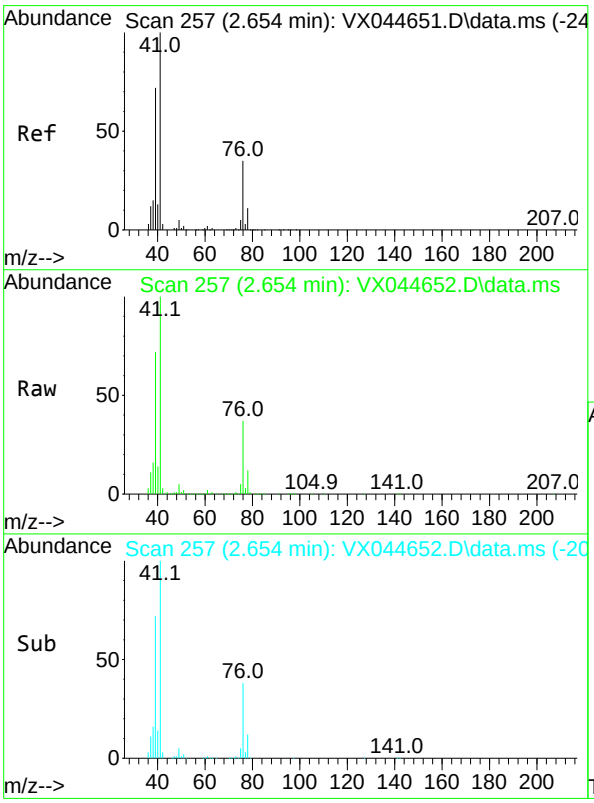

#13
Acrolein
Concen: 432.534 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 116830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.2 | 55.1 | 82.7 |

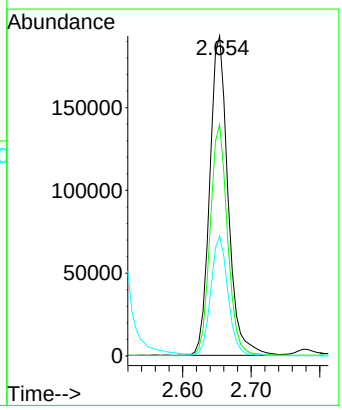


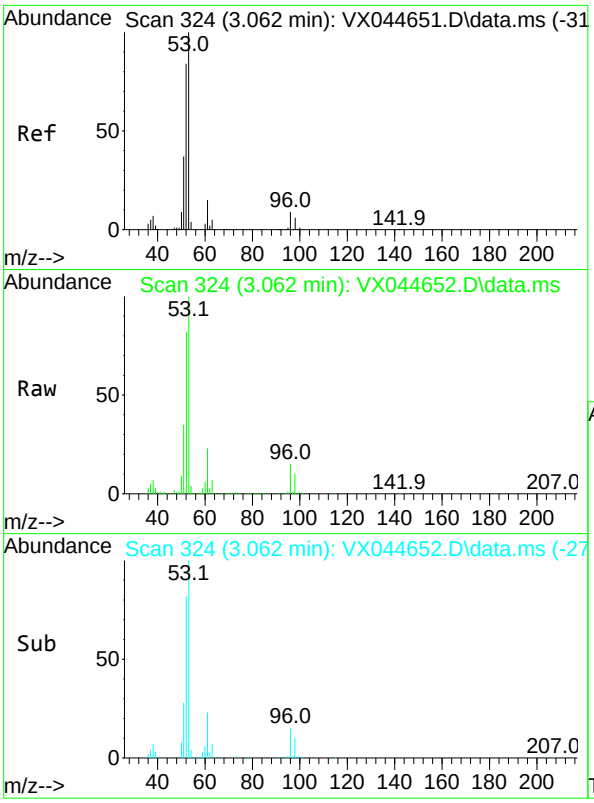




#14
Allyl chloride
Concen: 92.162 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 41 Resp: 358388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.7 | 54.9 | 82.3 |
| 76 | 35.1 | 28.4 | 42.6 |



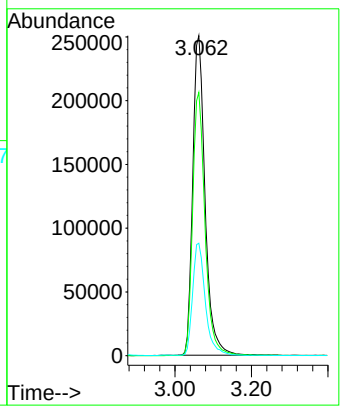


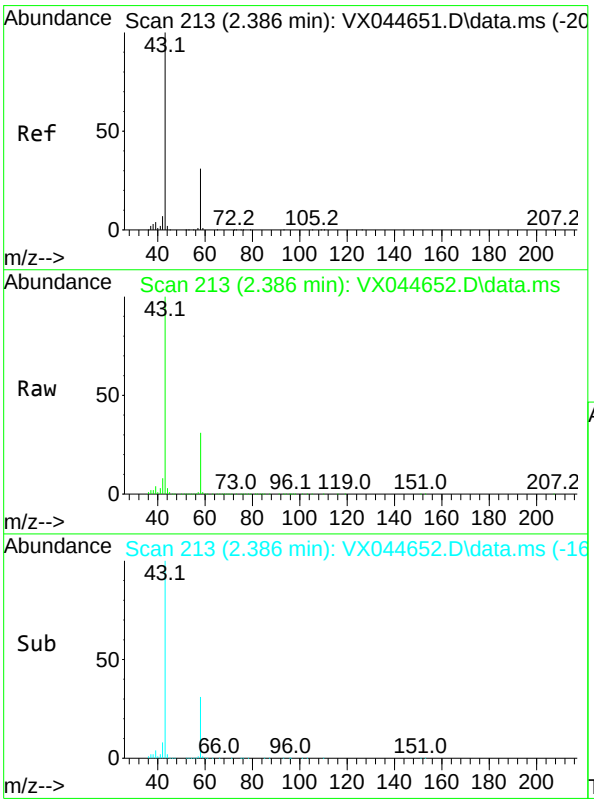

#15
Acrylonitrile
Concen: 498.179 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 53 Resp: 560841

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.7 | 66.0 | 99.0 |
| 51 | 36.1 | 28.9 | 43.3 |

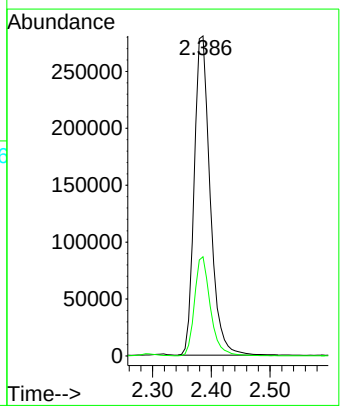


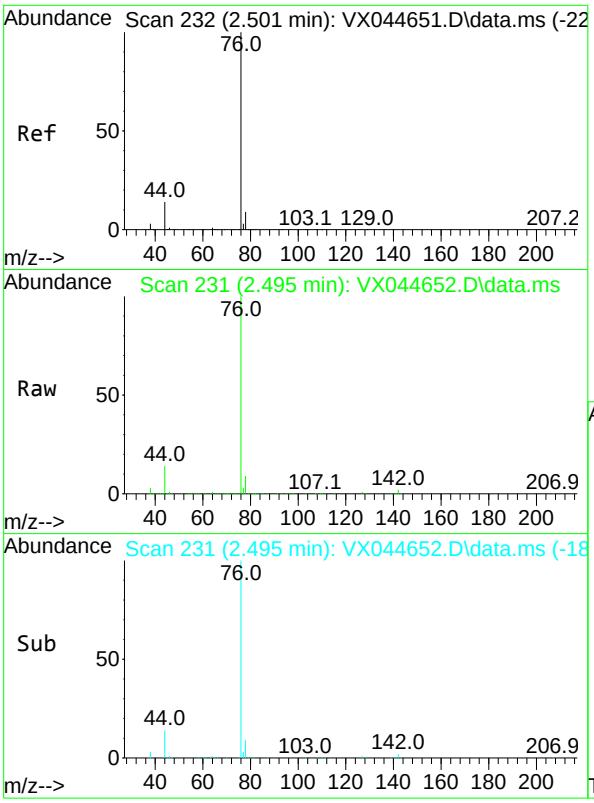




#16
Acetone
Concen: 518.081 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 527741

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.0 | 24.6 | 37.0 |



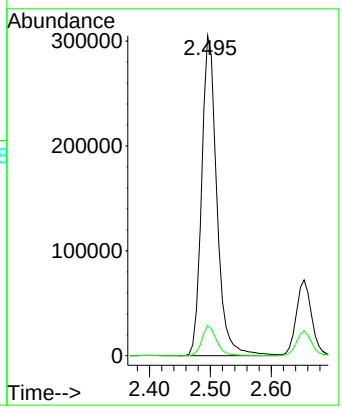


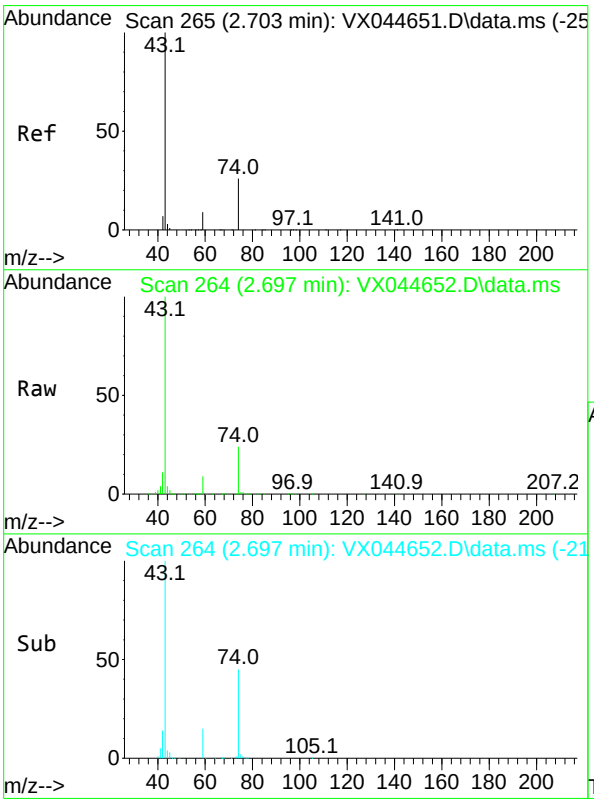

#17
Carbon Disulfide
Concen: 97.144 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 529418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.4 | 7.1 | 10.7 |

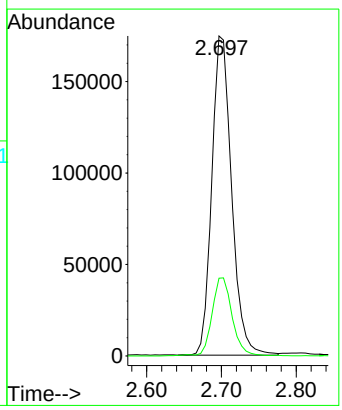


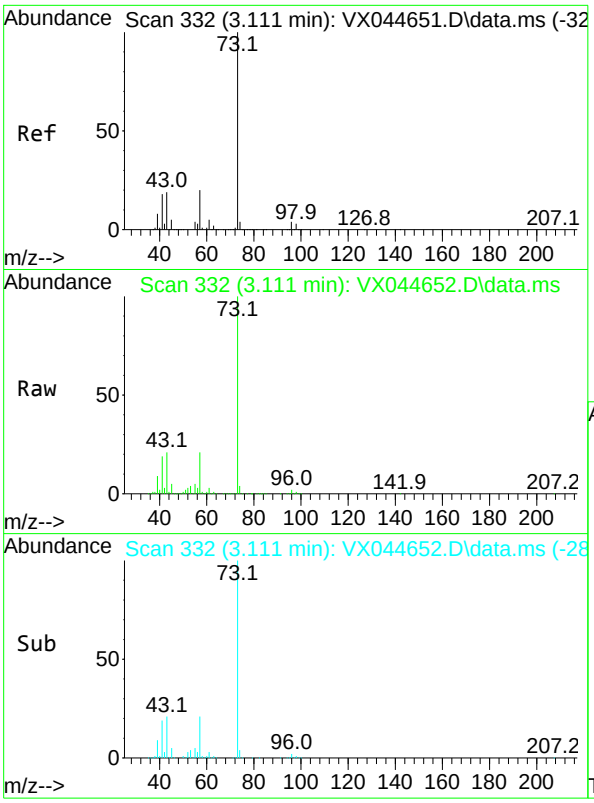




#18
Methyl Acetate
Concen: 102.235 ug/l
RT: 2.697 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 321291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.1 | 19.8 | 29.8 |



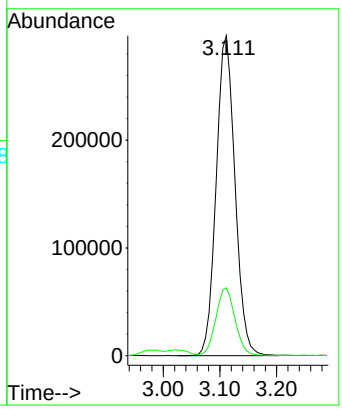


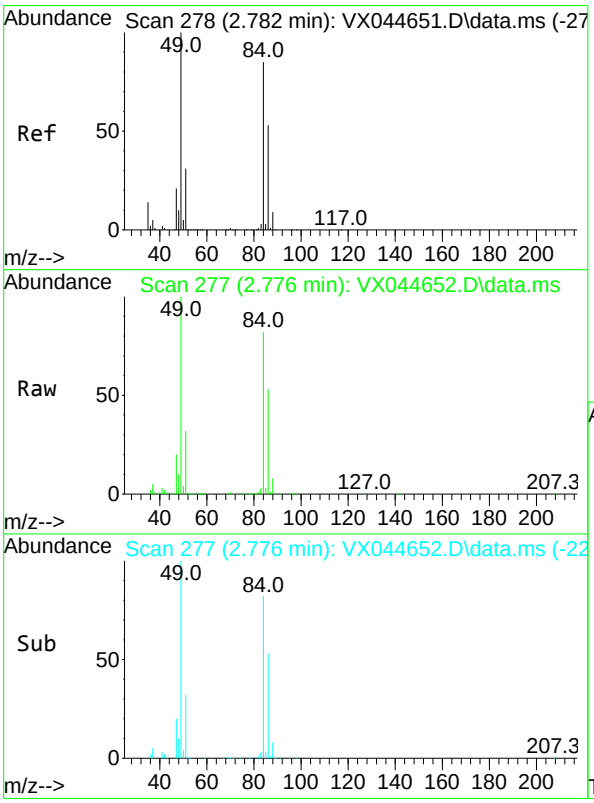

#19
Methyl tert-butyl Ether
Concen: 94.245 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 73 Resp: 681776

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.1 | 17.4 | 26.0 |

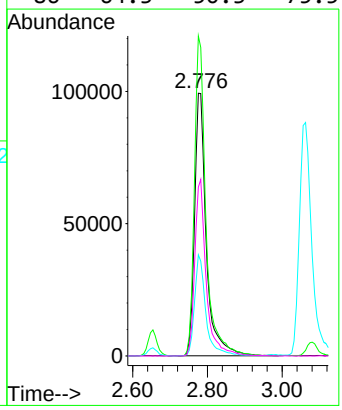


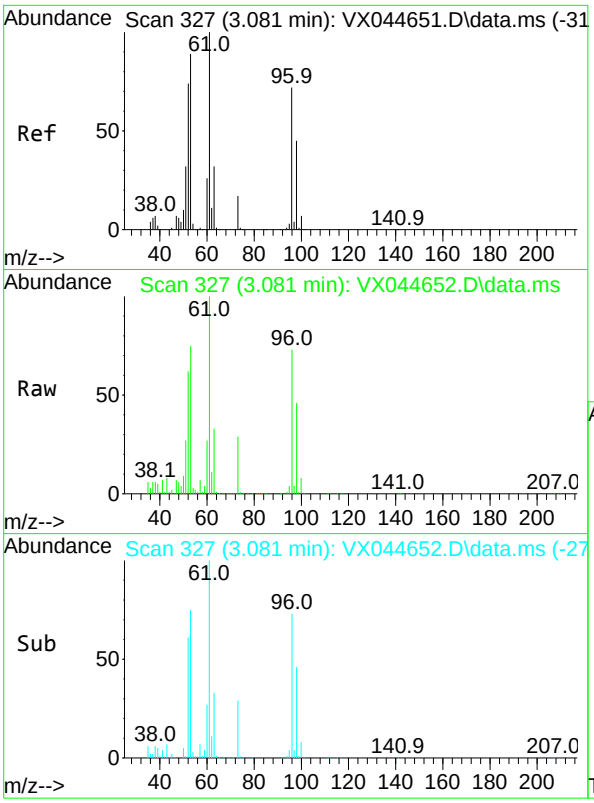




#20
Methylene Chloride
Concen: 91.100 ug/l
RT: 2.776 min Scan# 277
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 84 Resp: 216105

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 121.9 | 94.2 | 141.4 |
| 51 | 38.4 | 28.8 | 43.2 |
| 86 | 64.3 | 50.3 | 75.5 |



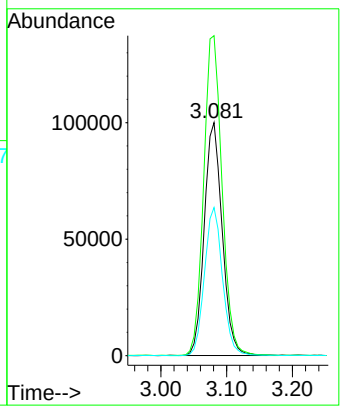


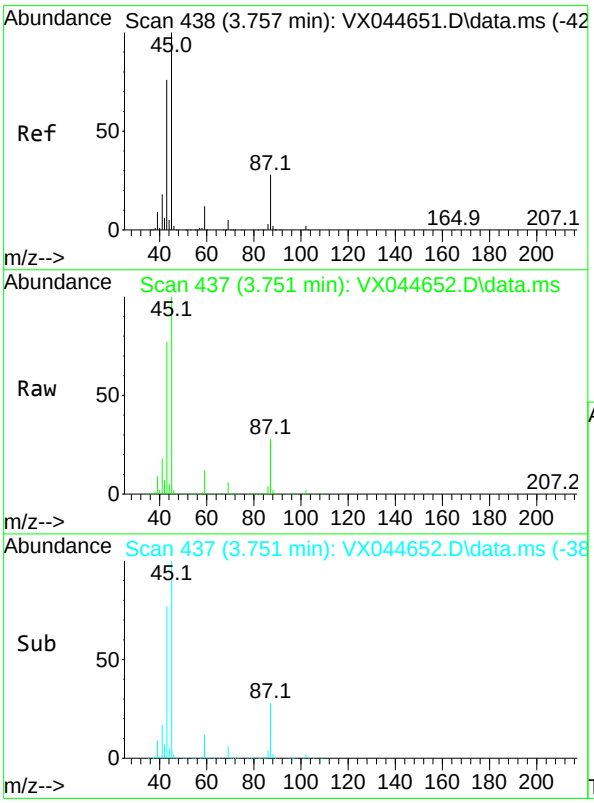

#21
trans-1,2-Dichloroethene
Concen: 91.400 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 190588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.2 | 111.0 | 166.6 |
| 98 | 63.6 | 50.2 | 75.2 |

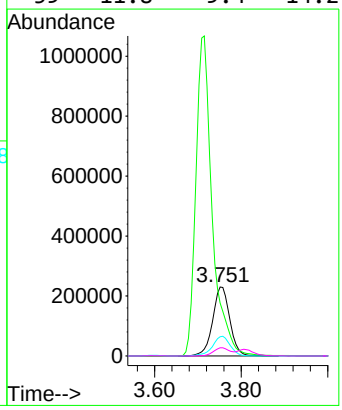


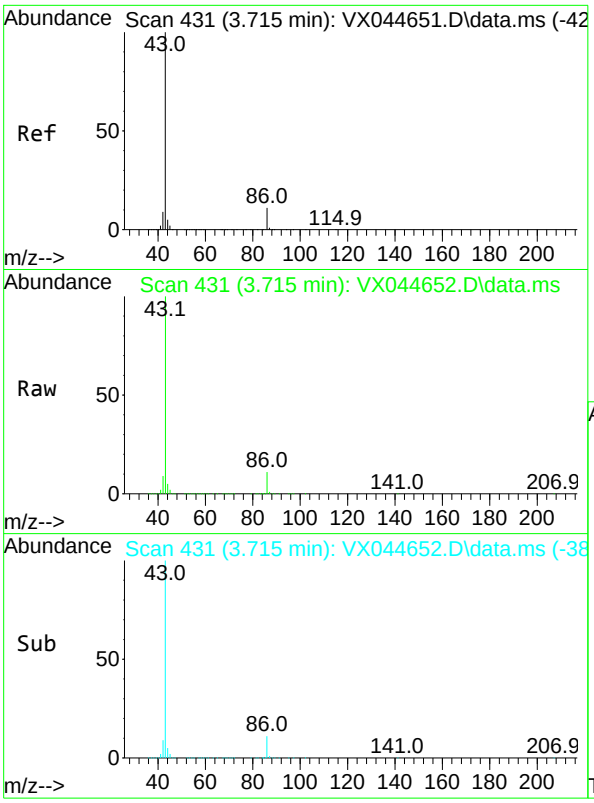




#22
Diisopropyl ether
Concen: 93.579 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 45 Resp: 632562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 76.7 | 61.0 | 91.6 |
| 87 | 28.0 | 22.7 | 34.1 |
| 59 | 11.8 | 9.4 | 14.2 |



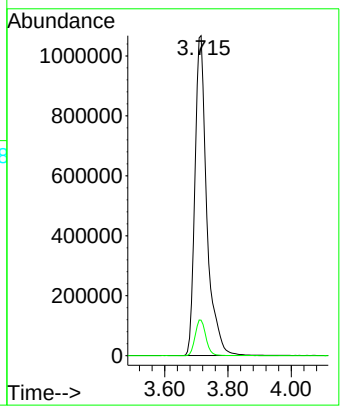


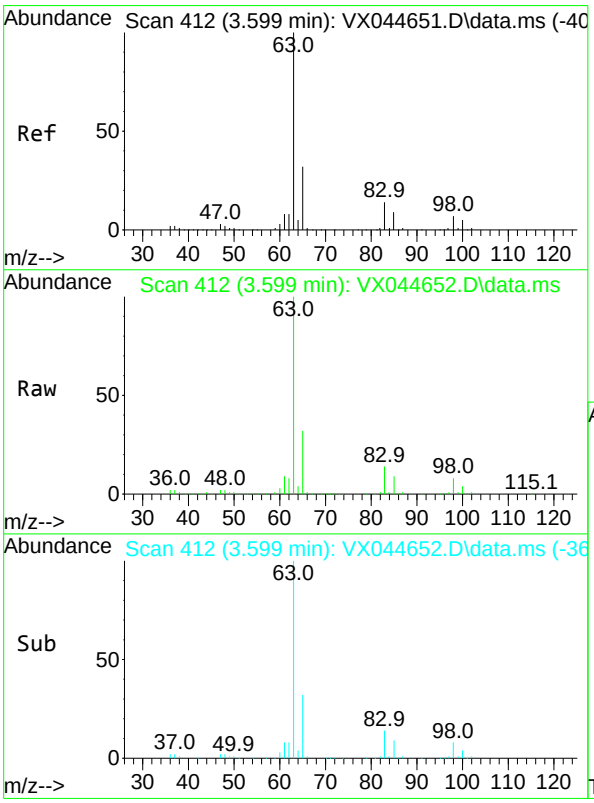

#23
Vinyl Acetate
Concen: 471.863 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 2791754

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.1 | 8.9 | 13.3 |

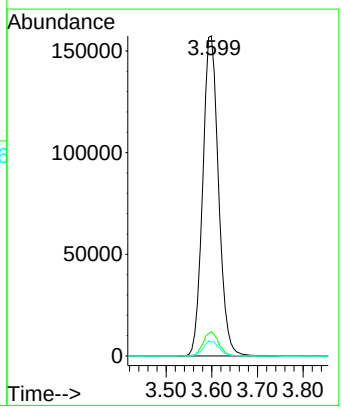


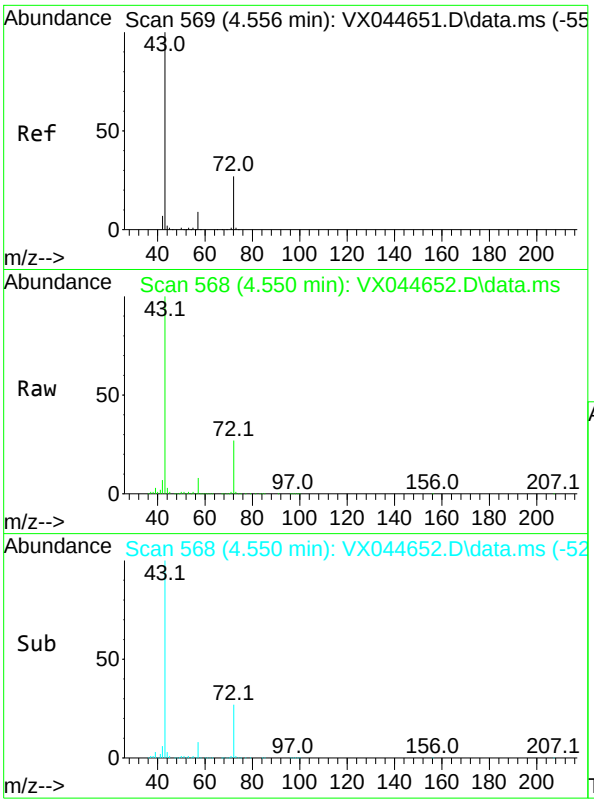




#24
1,1-Dichloroethane
Concen: 94.530 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 63 Resp: 378924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.6 | 3.6 | 10.9 |
| 100 | 4.4 | 2.5 | 7.5 |



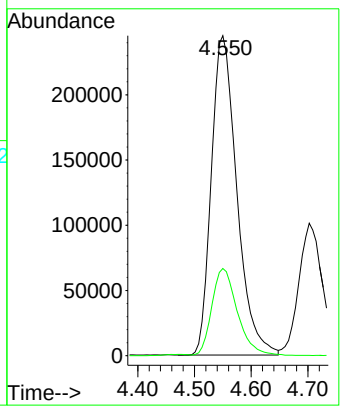


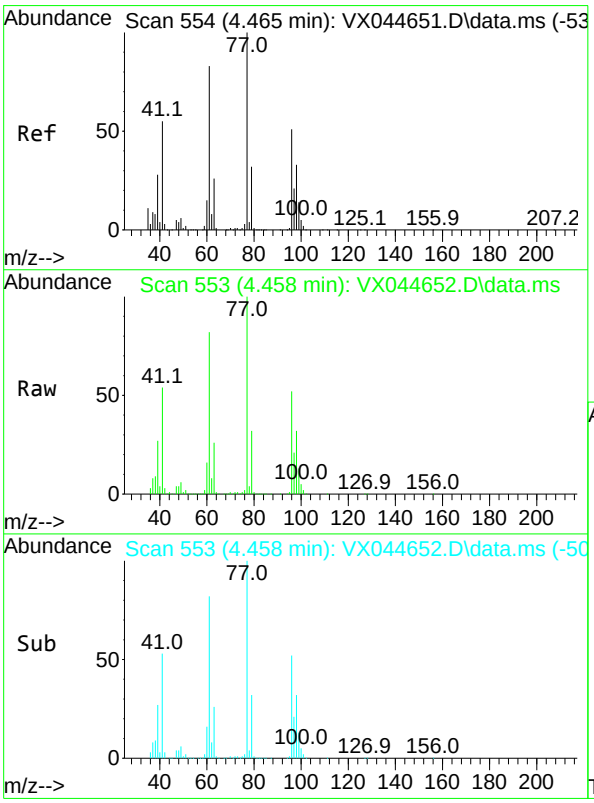

#25
2-Butanone
Concen: 505.435 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 765500

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.9 | 21.7 | 32.5 |

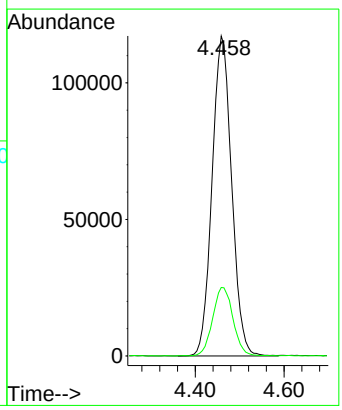


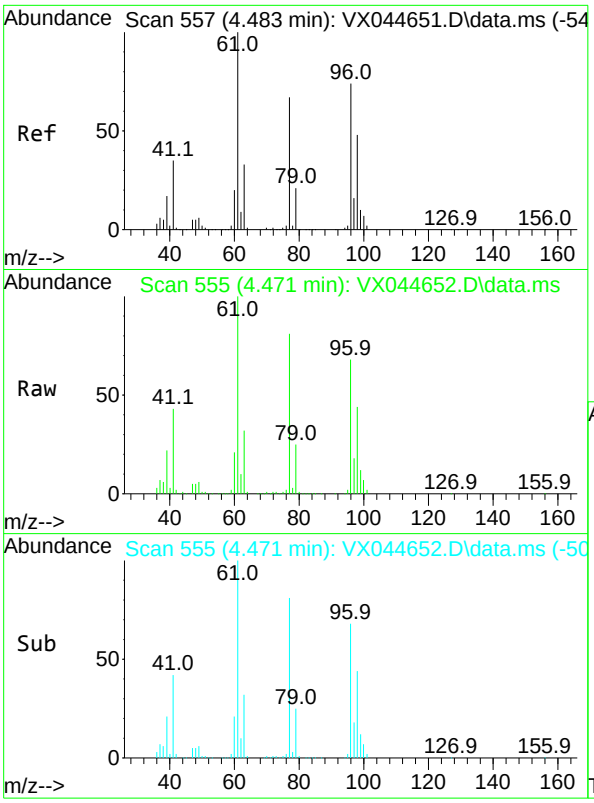




#26
2,2-Dichloropropane
Concen: 92.064 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 77 Resp: 357666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |



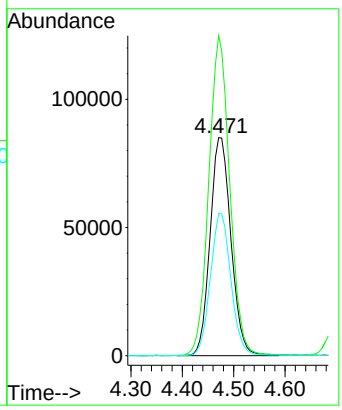


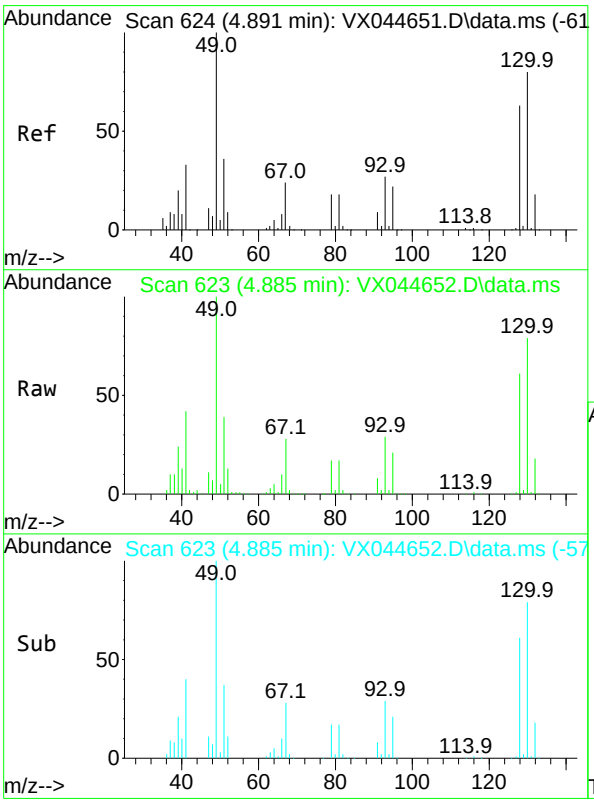

#27
cis-1,2-Dichloroethene
Concen: 91.559 ug/l
RT: 4.471 min Scan# 5
Delta R.T. -0.012 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 96 Resp: 240149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.5 | 0.0 | 296.0 |
| 98 | 64.4 | 0.0 | 130.0 |

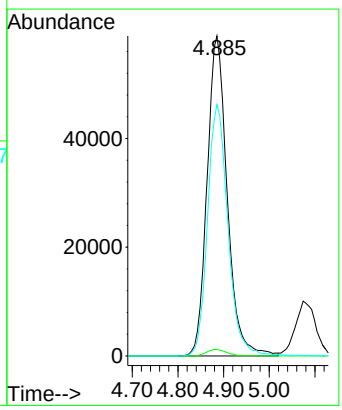


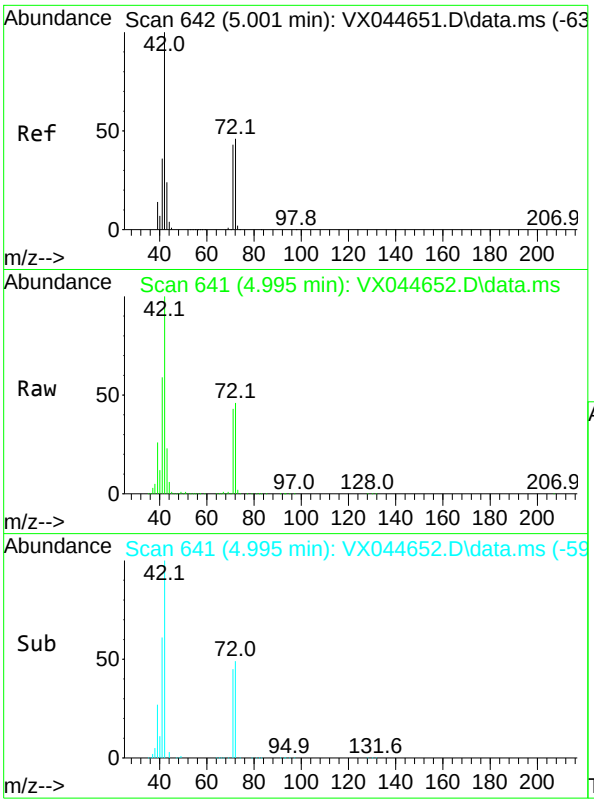




#28
Bromochloromethane
Concen: 96.041 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 49 Resp: 179896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 4.4 |
| 130 | 79.6 | 63.4 | 95.2 |



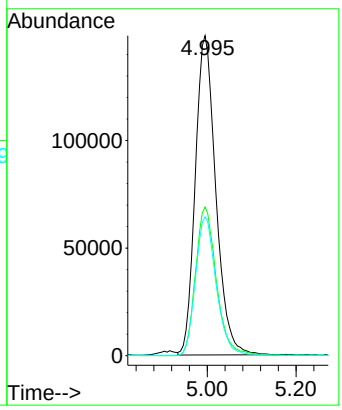


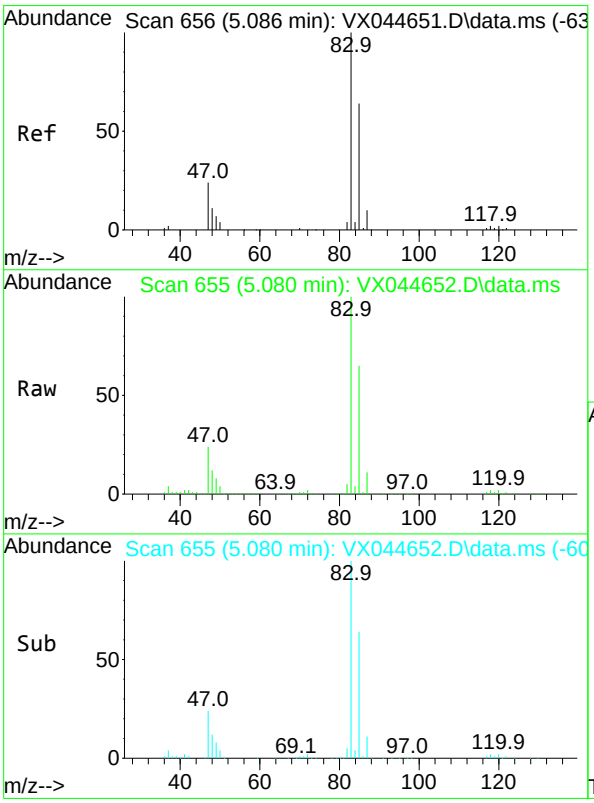

#29
Tetrahydrofuran
Concen: 488.500 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 42 Resp: 477227

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.6 | 38.2 | 57.4 |
| 71 | 43.9 | 35.3 | 52.9 |

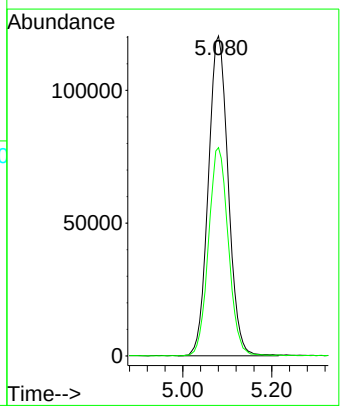


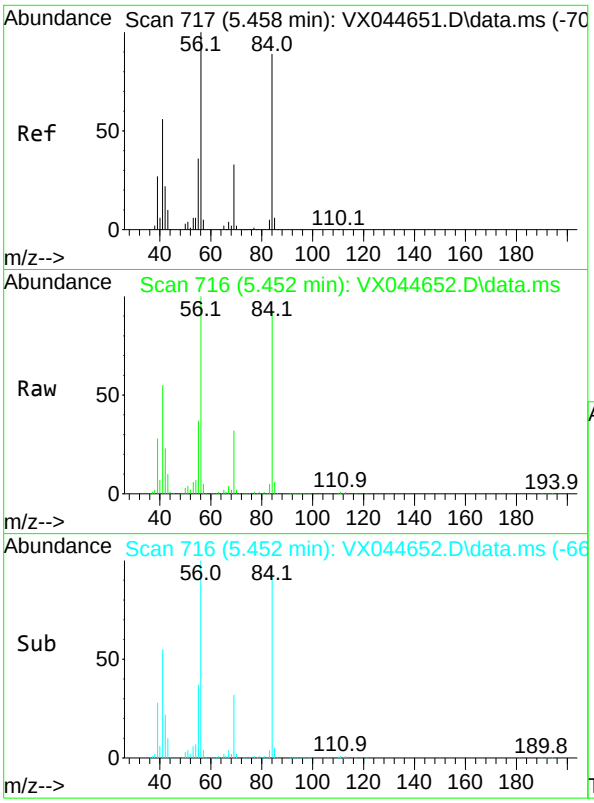




#30
Chloroform
Concen: 92.373 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 83 Resp: 373681

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.1 | 51.2 | 76.8 |



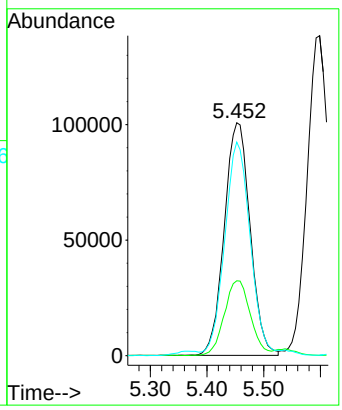


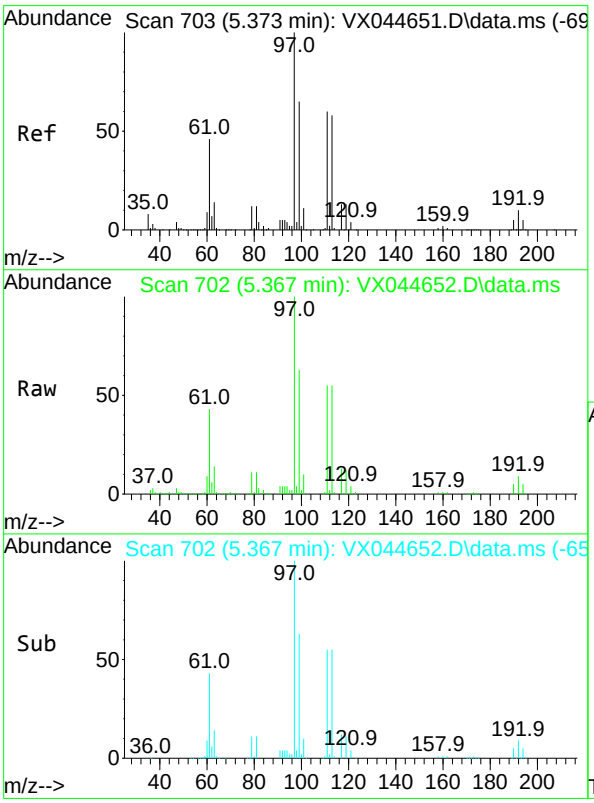

#31
Cyclohexane
Concen: 98.436 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 56 Resp: 319131

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.0 | 26.8 | 40.2 |
| 84 | 90.6 | 71.0 | 106.4 |

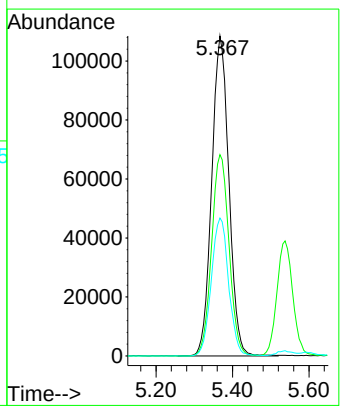


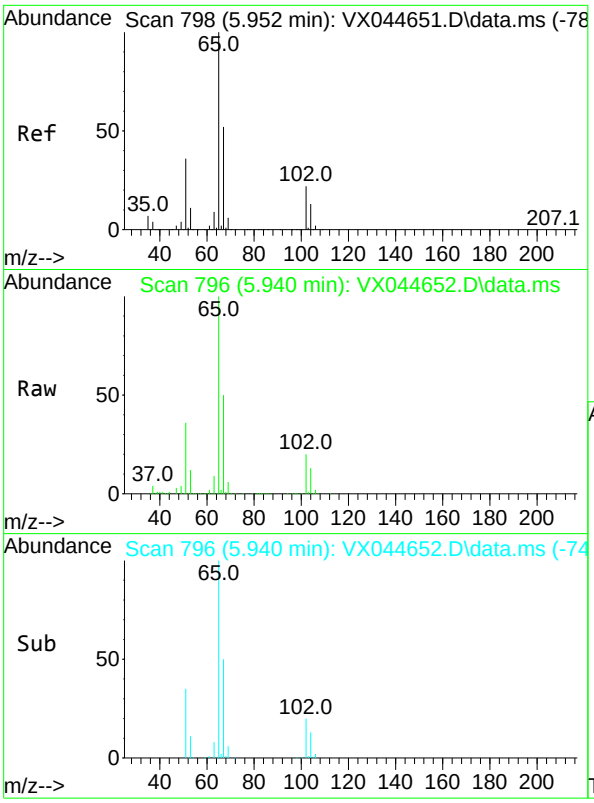




#32
1,1,1-Trichloroethane
Concen: 90.918 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 97 Resp: 338119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.8 | 51.6 | 77.4 |
| 61 | 43.6 | 35.6 | 53.4 |



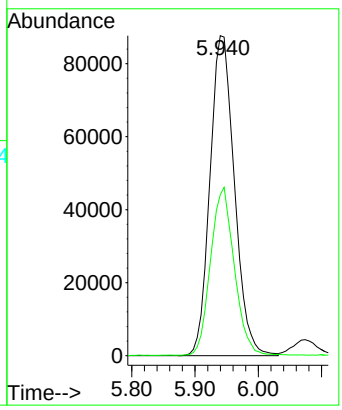


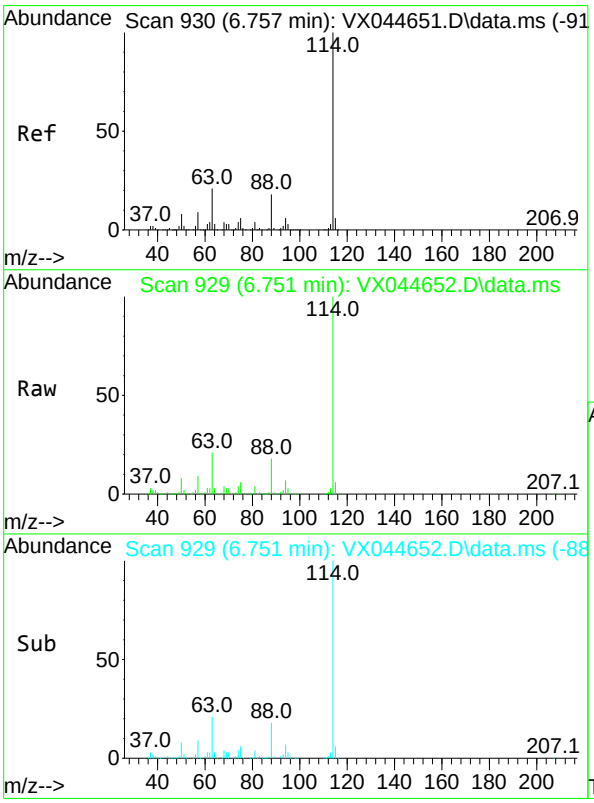

#33
1,2-Dichloroethane-d4
Concen: 91.349 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 65 Resp: 235193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 50.9 | 0.0 | 103.4 |

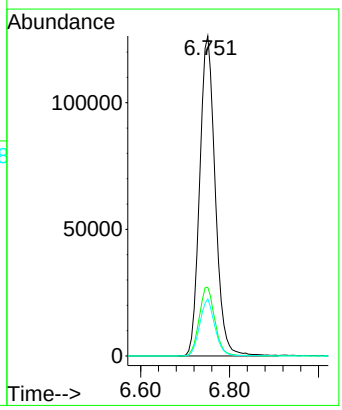


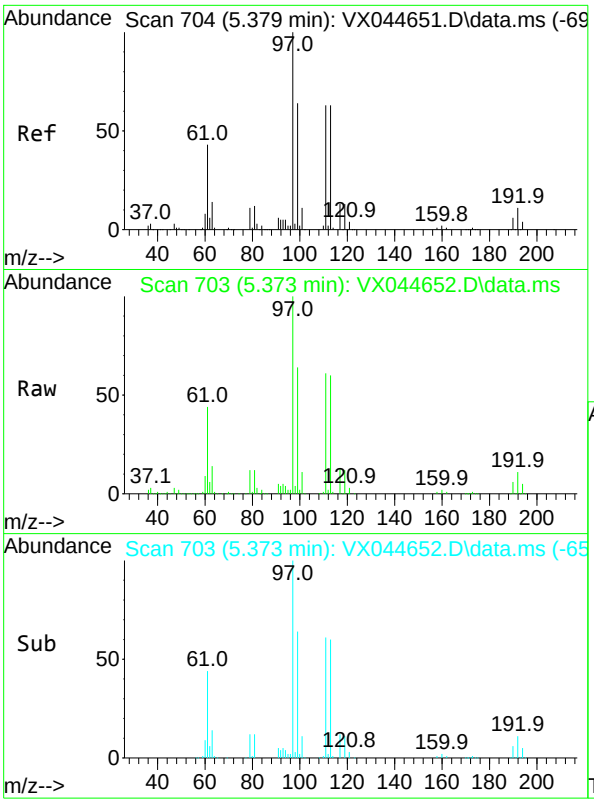




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:114 Resp: 308450

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.4 | 0.0 | 43.0 |
| 88 | 17.8 | 0.0 | 35.4 |



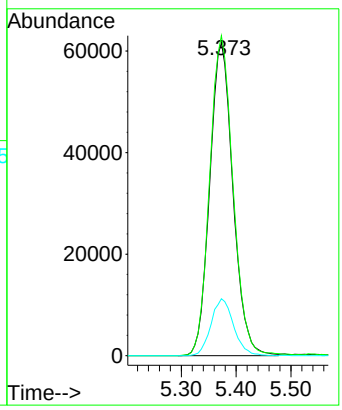


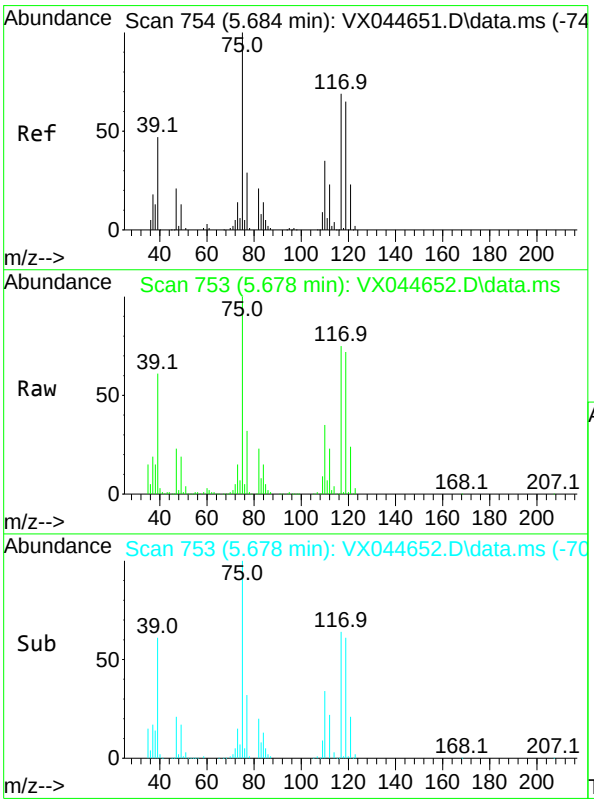

#35
Dibromofluoromethane
Concen: 92.374 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:113 Resp: 181010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.1 | 81.6 | 122.4 |
| 192 | 17.8 | 14.4 | 21.6 |

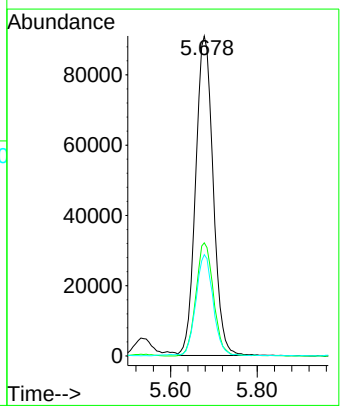


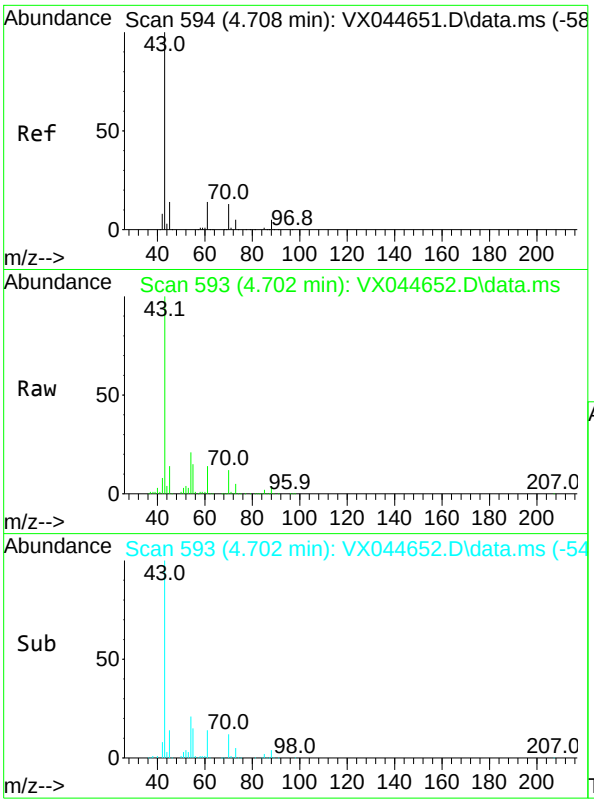




#36
1,1-Dichloropropene
Concen: 93.746 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 255714

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.5 | 17.9 | 53.8 |
| 77 | 30.9 | 24.5 | 36.7 |



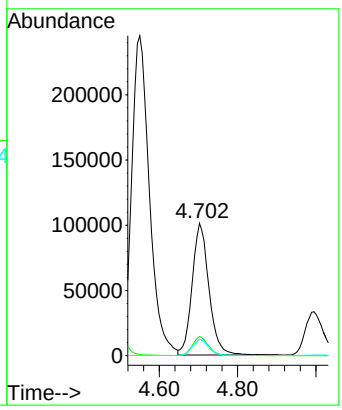


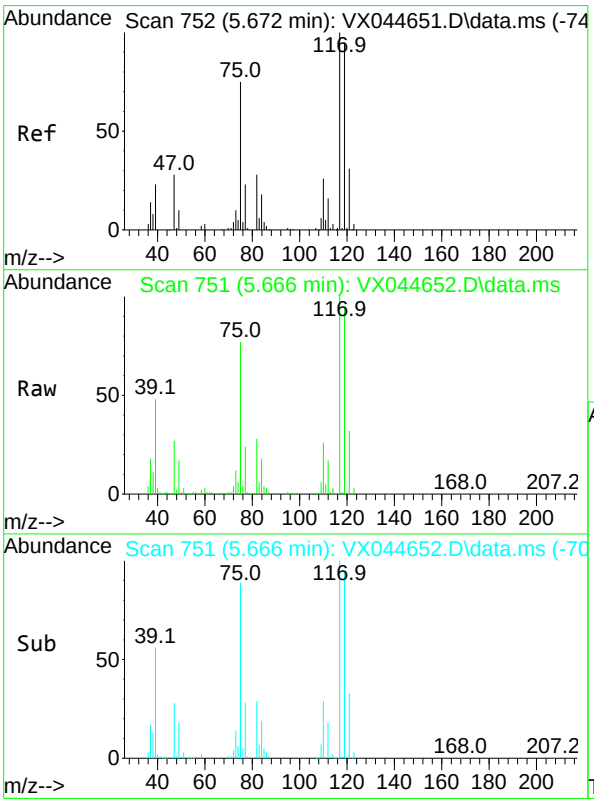

#37
Ethyl Acetate
Concen: 103.517 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 300700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.6 | 10.9 | 16.3 |
| 70 | 12.0 | 10.1 | 15.1 |

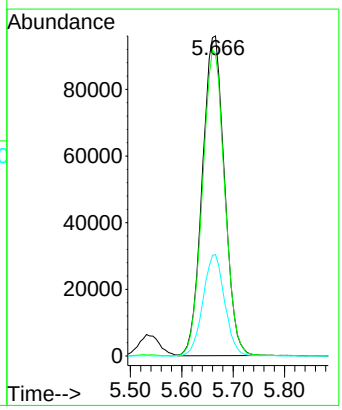


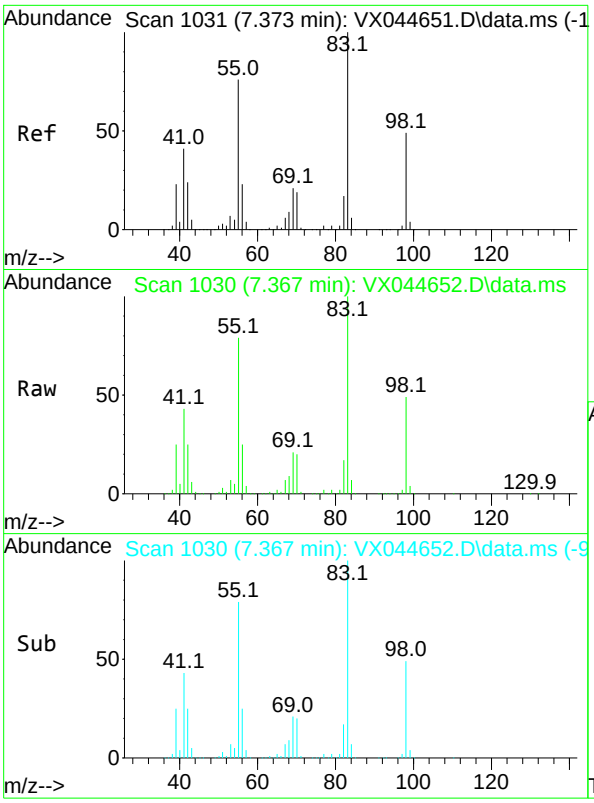




#38
Carbon Tetrachloride
Concen: 93.555 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:117 Resp: 287048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 76.0 | 114.0 |
| 121 | 31.7 | 24.6 | 36.8 |



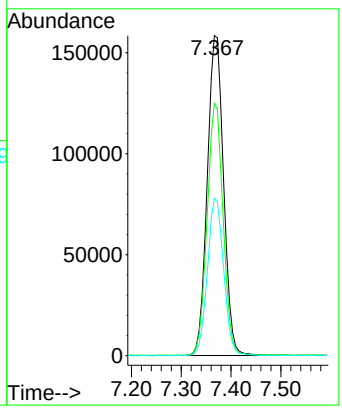


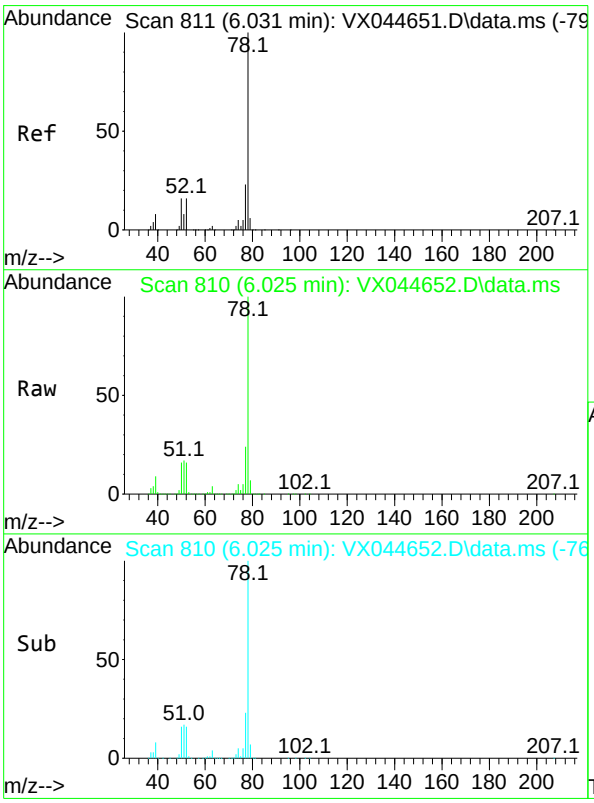

#39
Methylcyclohexane
Concen: 99.352 ug/l
RT: 7.367 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 359758

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 78.5 | 60.5 | 90.7 |
| 98 | 49.1 | 39.0 | 58.4 |

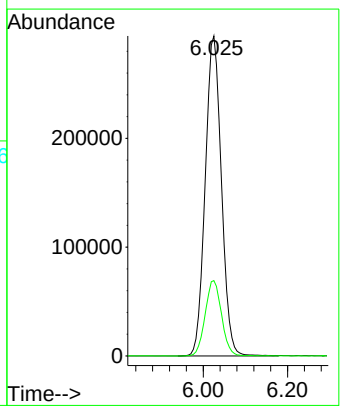


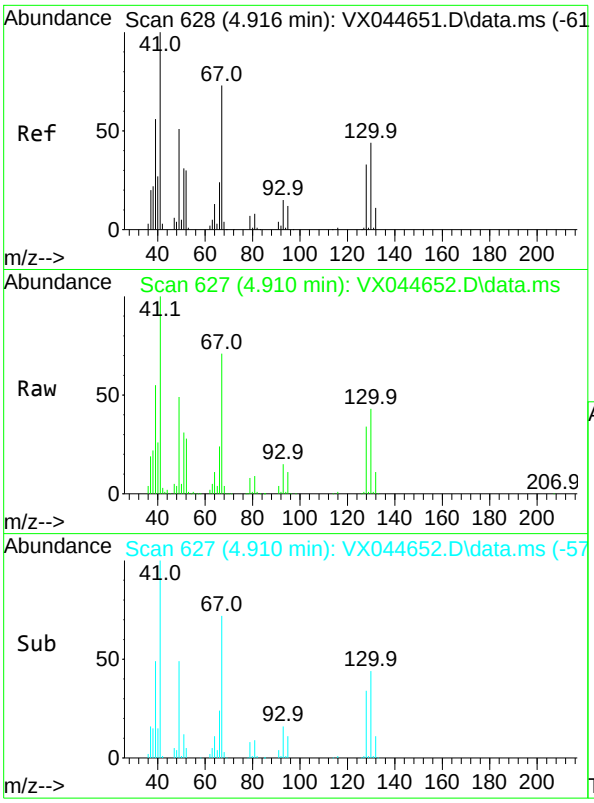




#40
Benzene
Concen: 92.946 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 78 Resp: 785626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.5 | 18.7 | 28.1 |



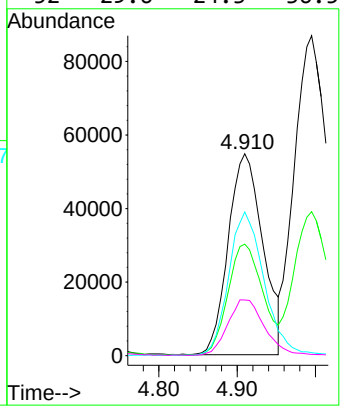


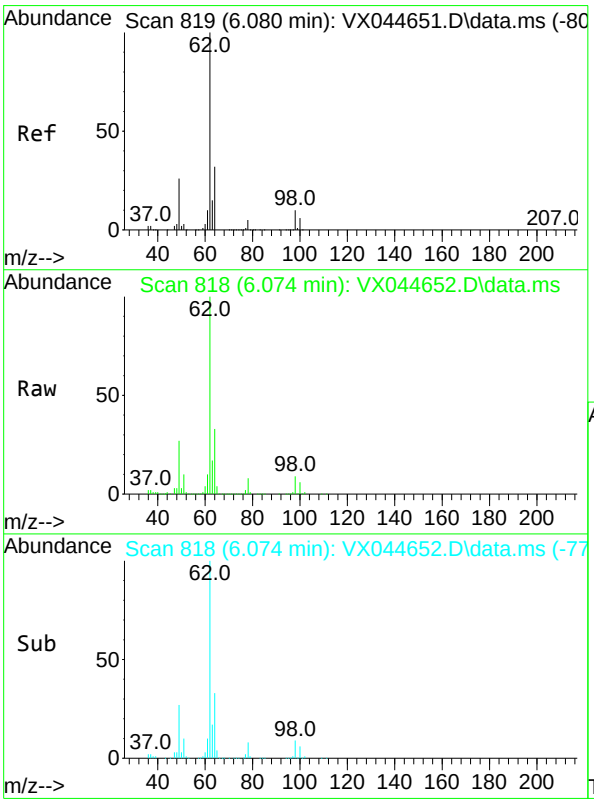

#41
Methacrylonitrile
Concen: 99.535 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 41 Resp: 168481

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.5 | 44.4 | 66.6 |
| 67 | 73.0 | 60.6 | 90.8 |
| 52 | 29.6 | 24.3 | 36.5 |

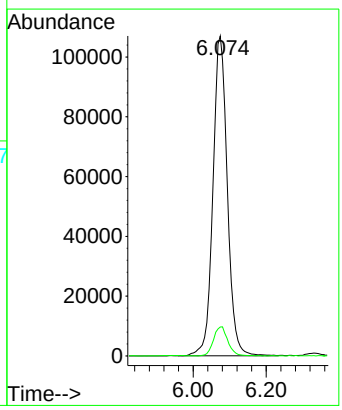


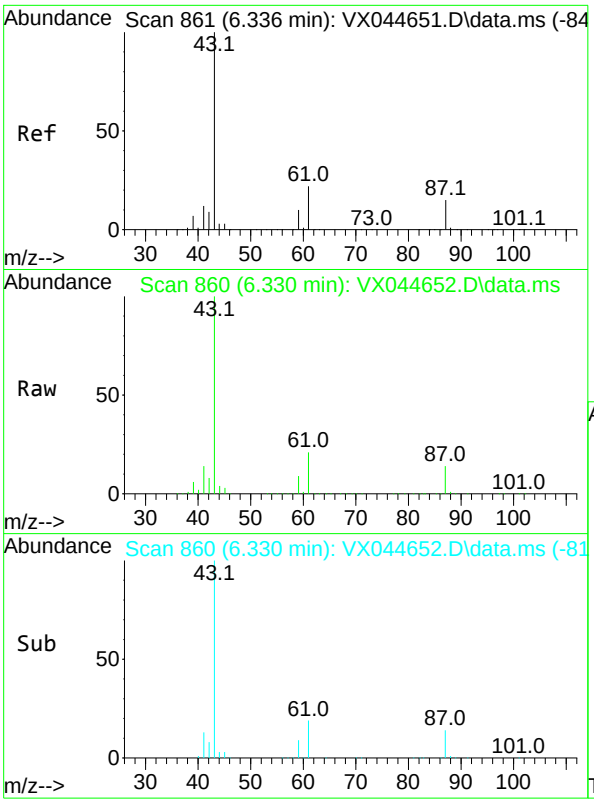




#42
1,2-Dichloroethane
Concen: 94.663 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 62 Resp: 292036

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.2 | 0.0 | 19.4 |



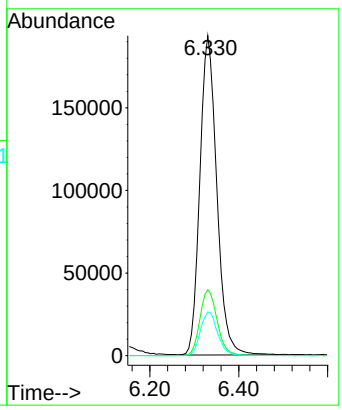


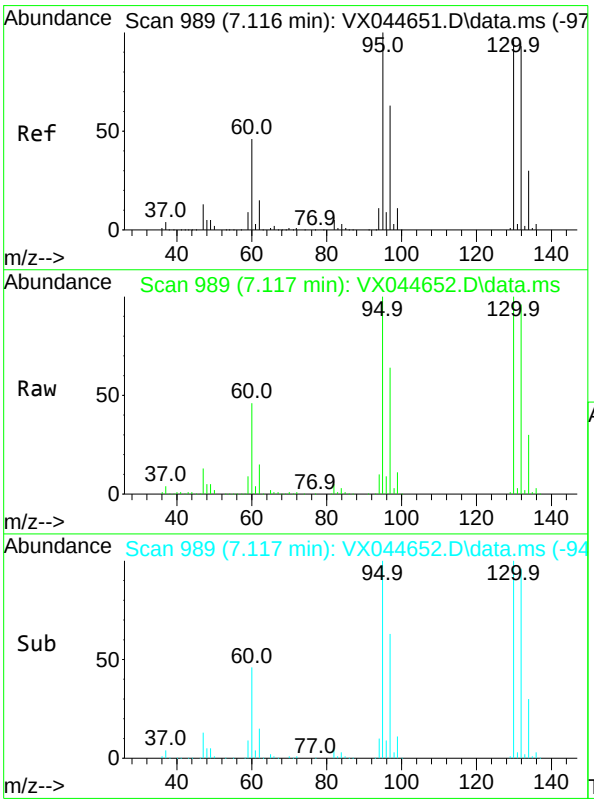

#43
Isopropyl Acetate
Concen: 95.925 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 512598

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.1 | 16.6 | 24.8 |
| 87 | 14.0 | 11.0 | 16.6 |

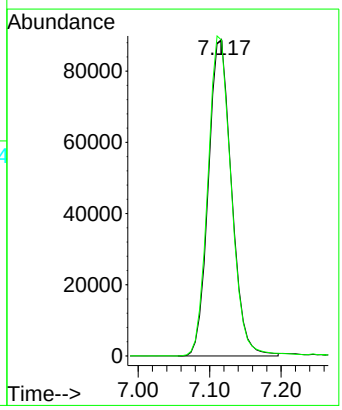


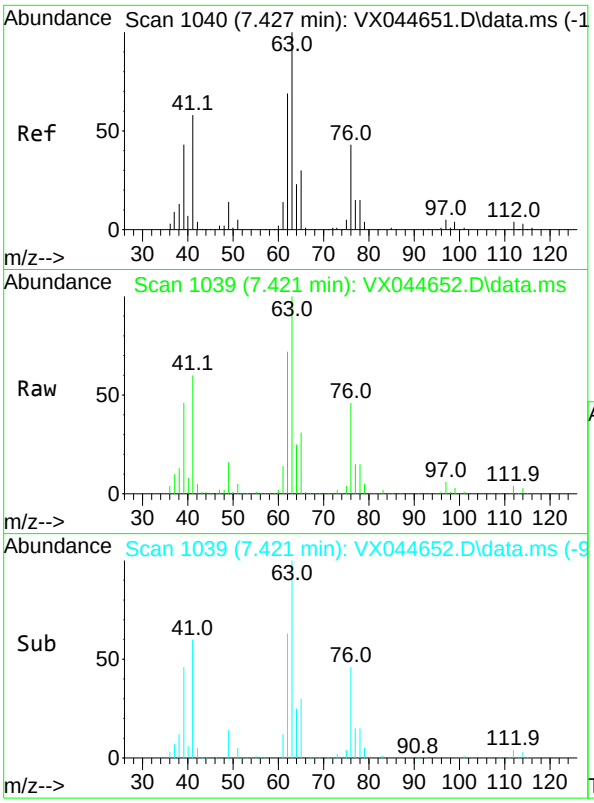




#44
Trichloroethene
Concen: 98.212 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:130 Resp: 199570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.7 | 0.0 | 208.2 |



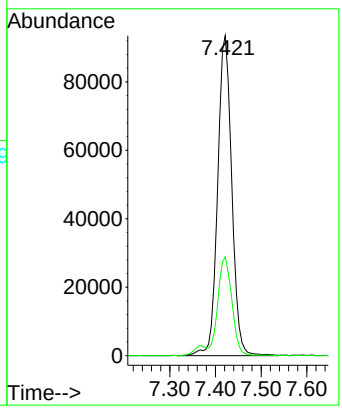


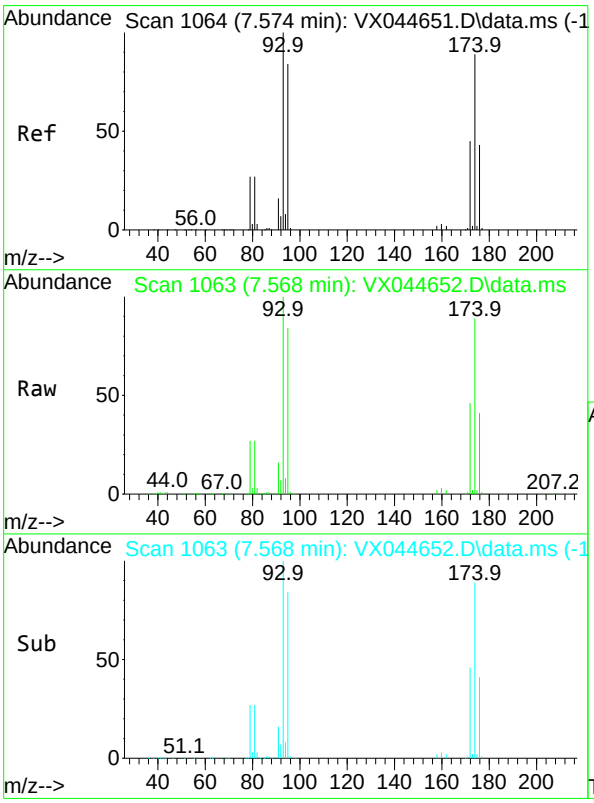

#45
1,2-Dichloropropane
Concen: 94.413 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 63 Resp: 200877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.9 | 24.2 | 36.2 |

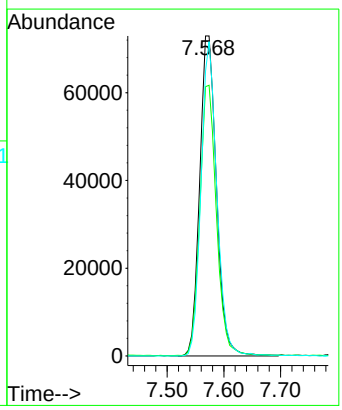


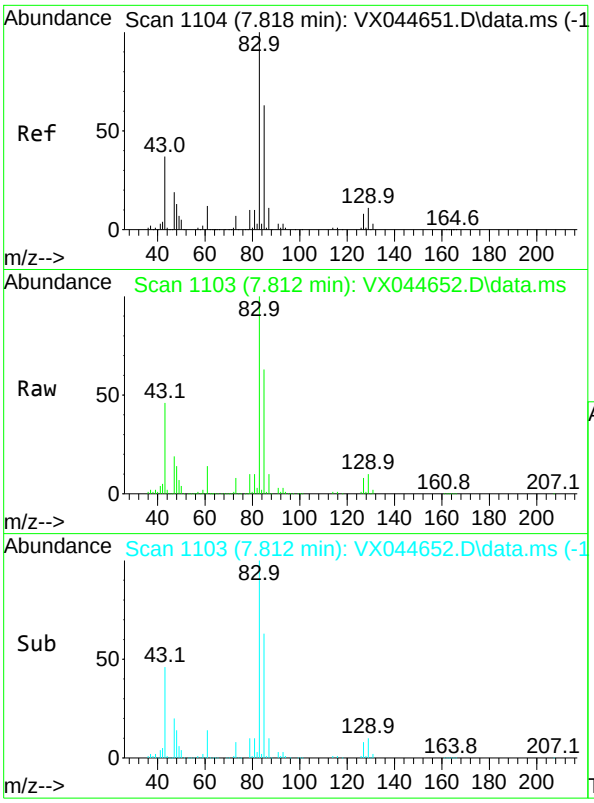




#46
Dibromomethane
Concen: 92.680 ug/l
RT: 7.568 min Scan# 1063
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 93 Resp: 150112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.5 | 66.4 | 99.6 |
| 174 | 92.9 | 72.0 | 108.0 |



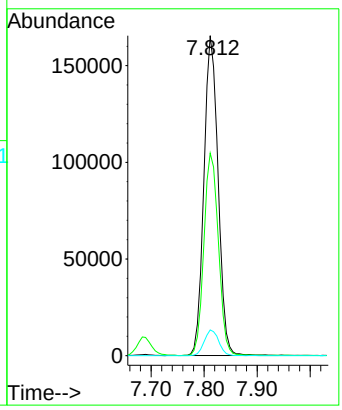


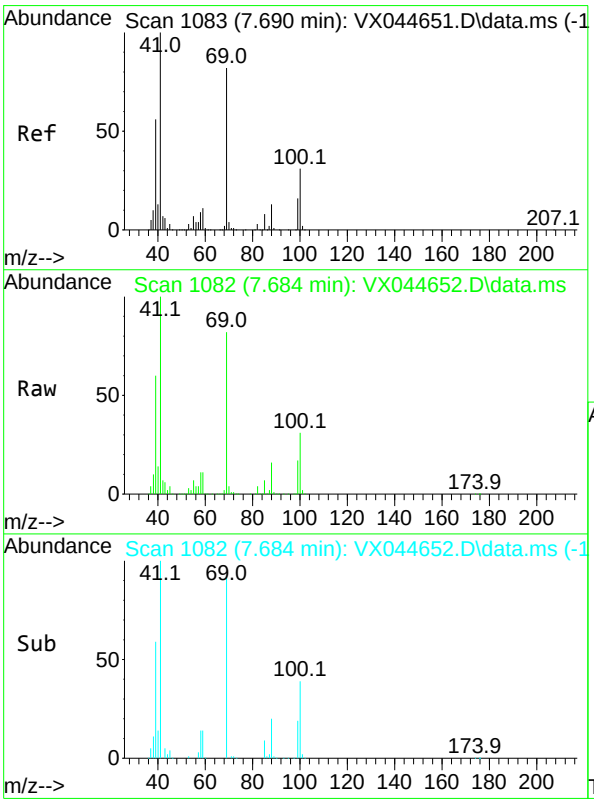

#47
Bromodichloromethane
Concen: 92.723 ug/l
RT: 7.812 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 307990

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.3 | 50.1 | 75.1 |
| 127 | 8.0 | 6.5 | 9.7 |

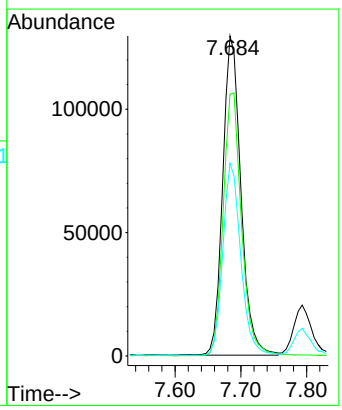


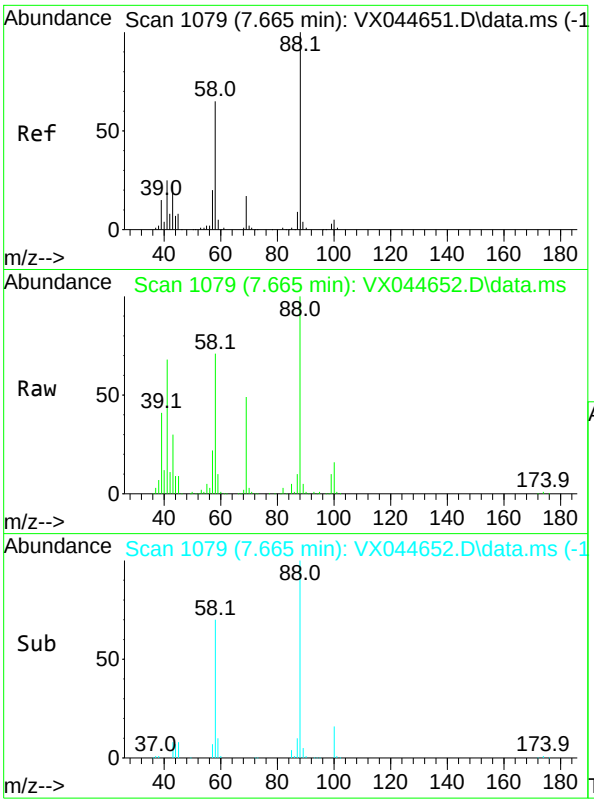




#48
Methyl methacrylate
Concen: 100.250 ug/l
RT: 7.684 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 41 Resp: 248667

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 83.6 | 66.8 | 100.2 |
| 39 | 59.8 | 47.4 | 71.0 |



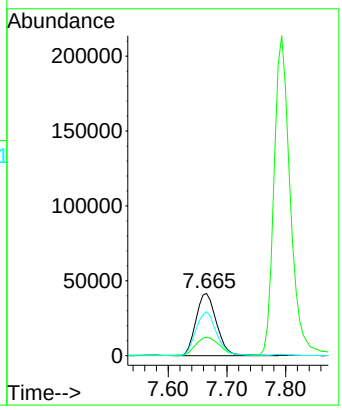


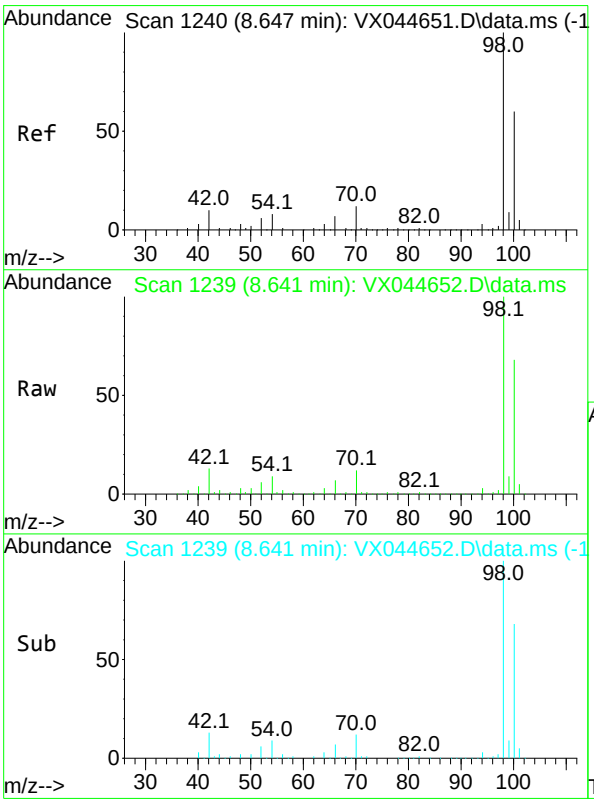

#49
1,4-Dioxane
Concen: 1959.056 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 88 Resp: 101384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.1 | 27.0 | 40.4 |
| 58 | 71.0 | 55.8 | 83.8 |

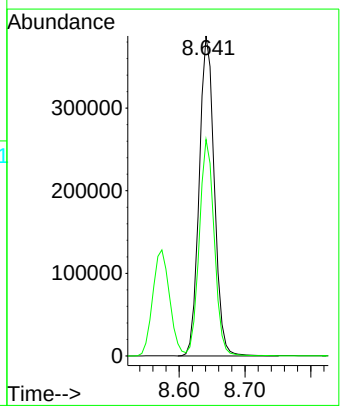


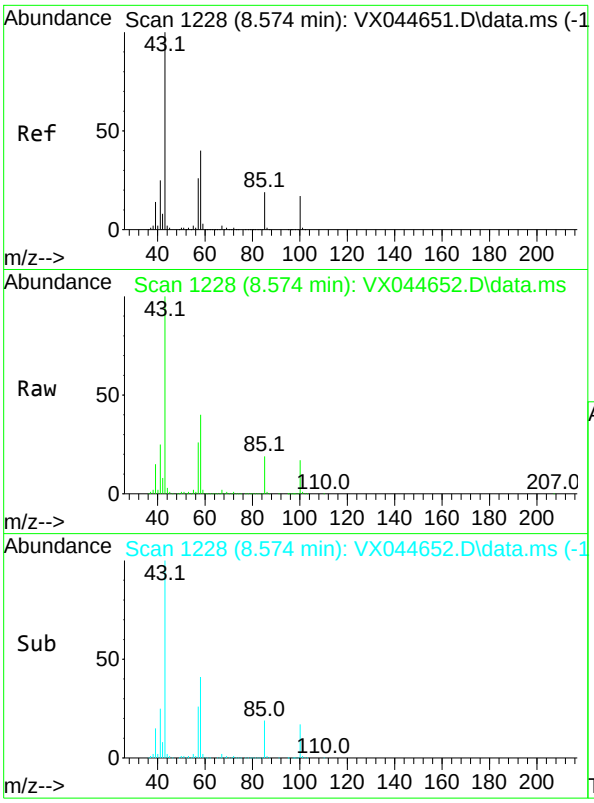




#50
Toluene-d8
Concen: 90.404 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 98 Resp: 617688

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.8 | 53.2 | 79.8 |



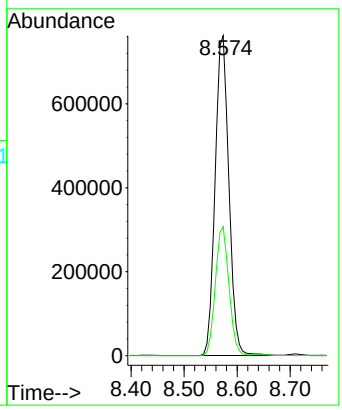


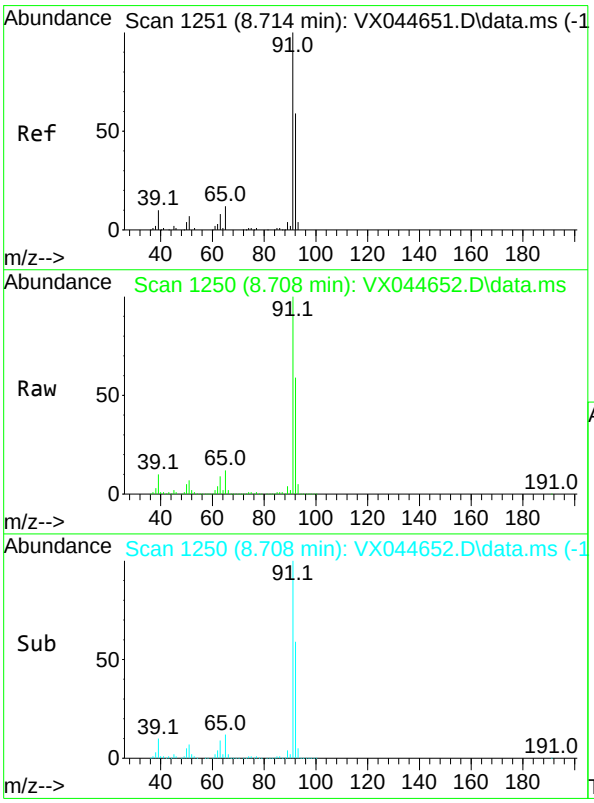

#51
4-Methyl-2-Pentanone
Concen: 464.897 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 1372888

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 40.0 | 31.9 | 47.9 |

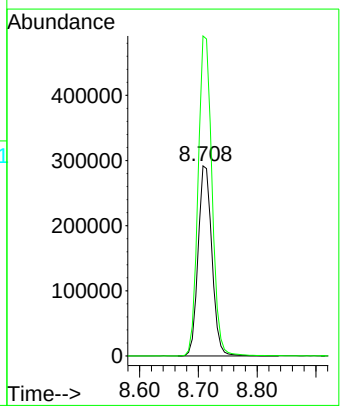


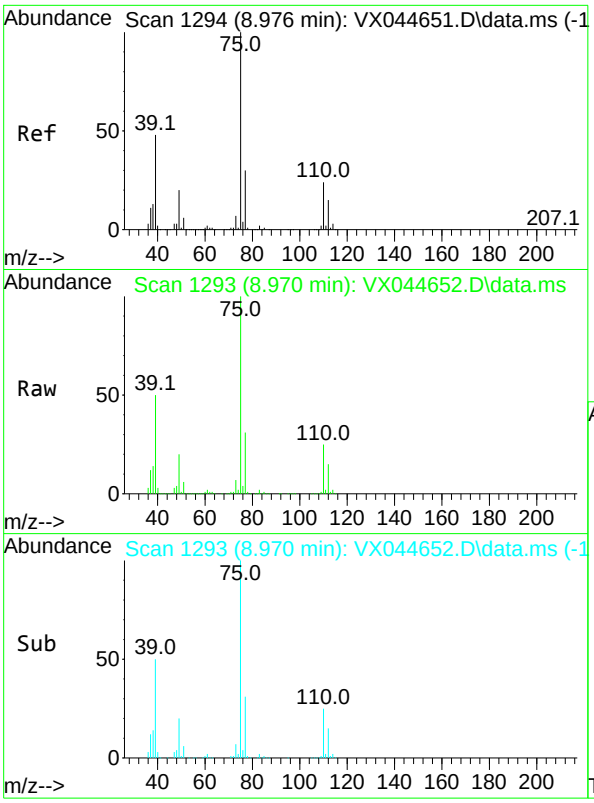




#52
Toluene
Concen: 91.697 ug/l
RT: 8.708 min Scan# 1250
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 92 Resp: 474392

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.3 | 135.7 | 203.5 |



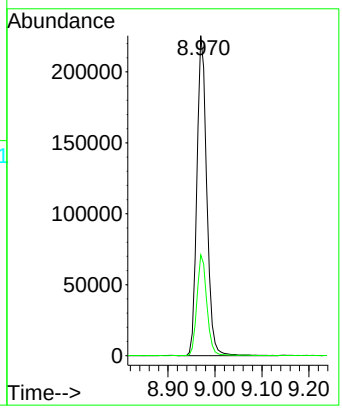


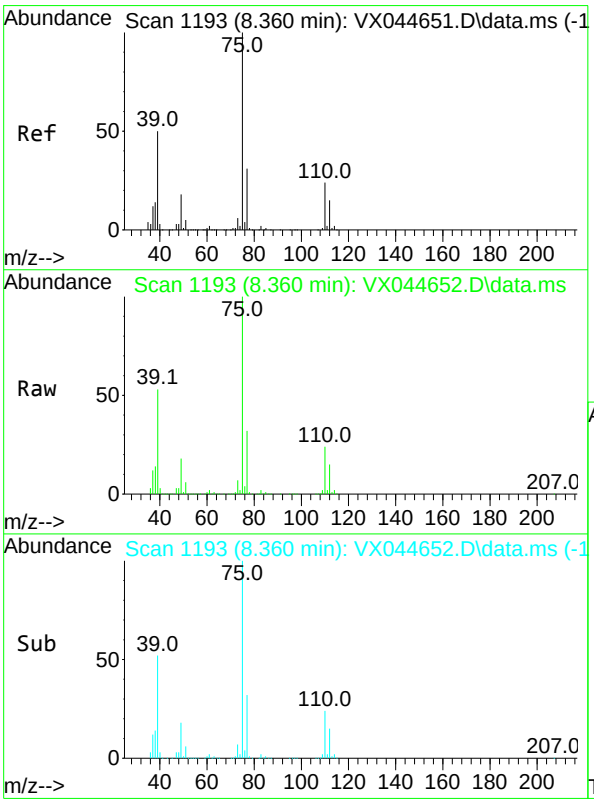

#53
t-1,3-Dichloropropene
Concen: 96.446 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 330982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.5 | 24.4 | 36.6 |

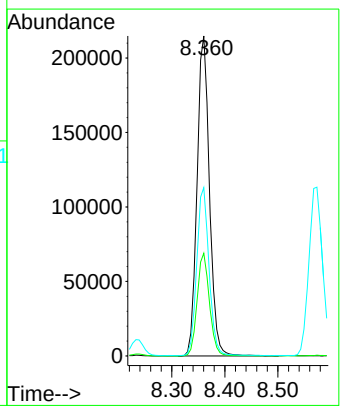


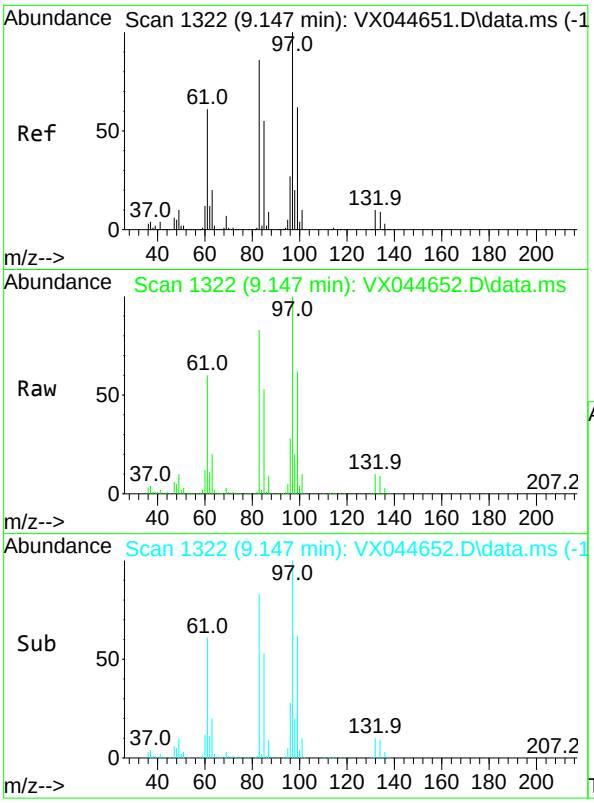




#54
cis-1,3-Dichloropropene
Concen: 93.927 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 349516

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 25.1 | 37.7 |
| 39 | 52.5 | 40.3 | 60.5 |



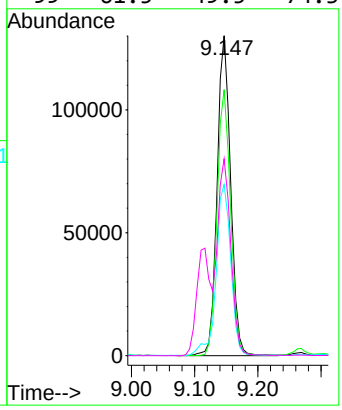


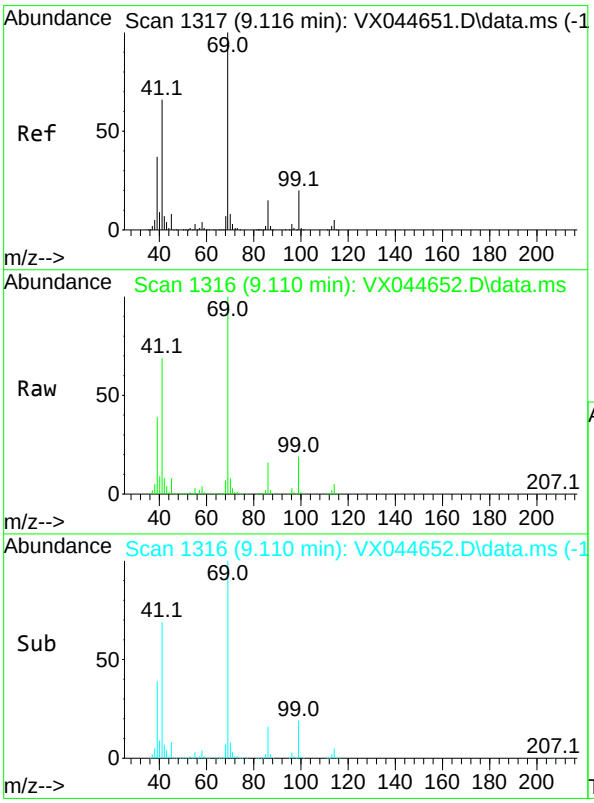

#55
1,1,2-Trichloroethane
Concen: 91.885 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 97 Resp: 192326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 83.1 | 68.8 | 103.2 |
| 85 | 53.4 | 43.7 | 65.5 |
| 99 | 61.5 | 49.5 | 74.3 |

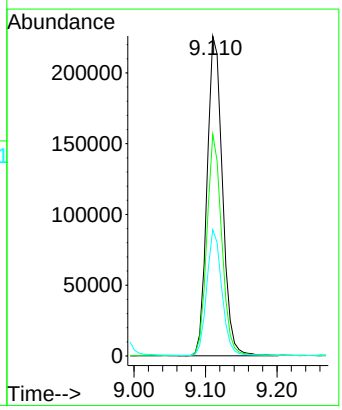


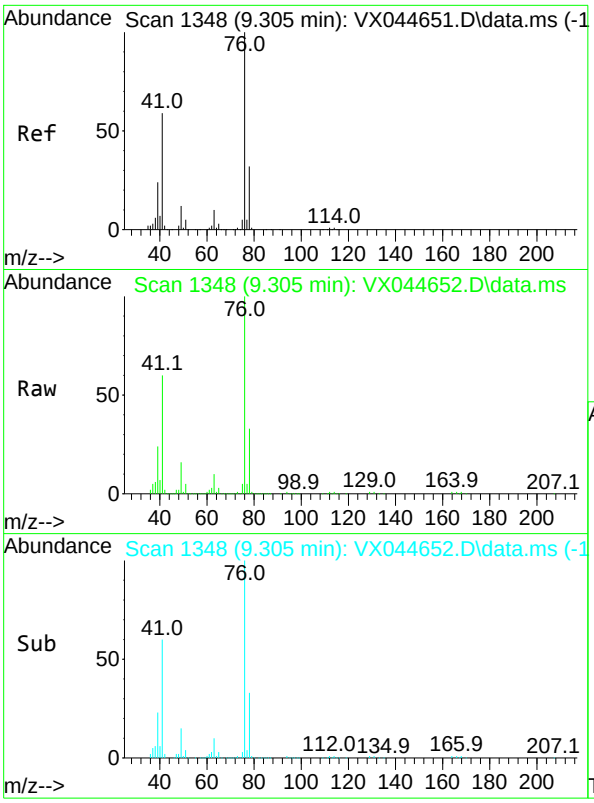




#56
Ethyl methacrylate
Concen: 93.812 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 69 Resp: 337626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.7 | 53.2 | 79.8 |
| 39 | 38.4 | 30.2 | 45.2 |



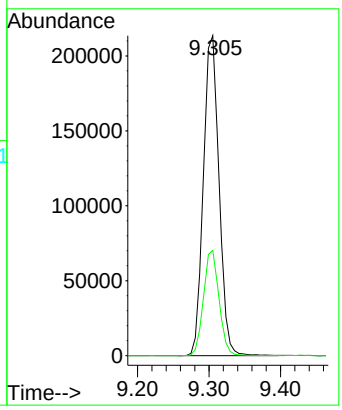


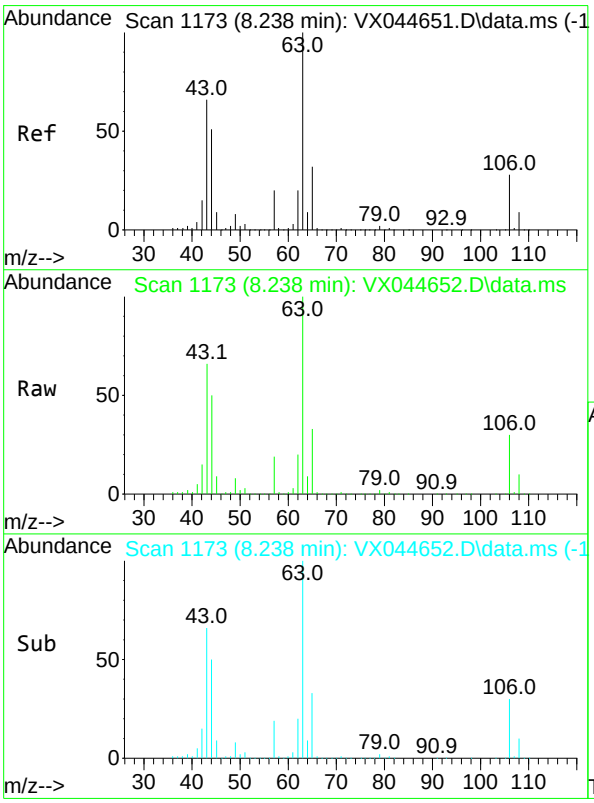

#57
1,3-Dichloropropane
Concen: 91.220 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 76 Resp: 325142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.7 | 26.0 | 39.0 |

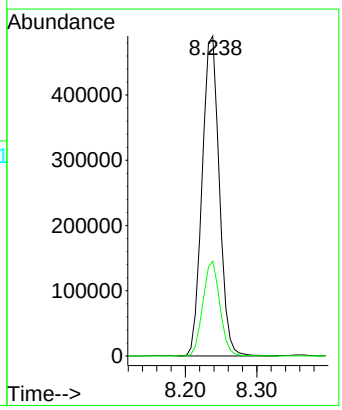


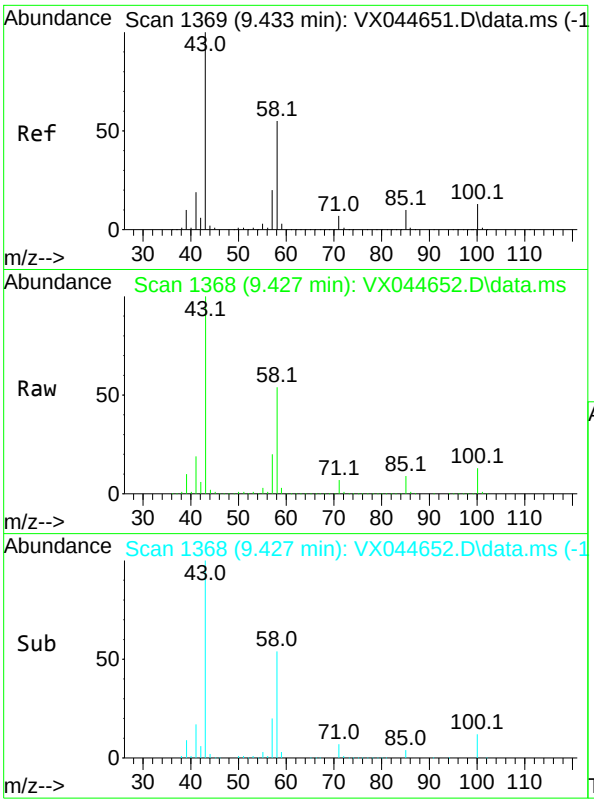




#58
2-Chloroethyl Vinyl ether
Concen: 462.693 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 63 Resp: 817528

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.3 | 23.0 | 34.6 |



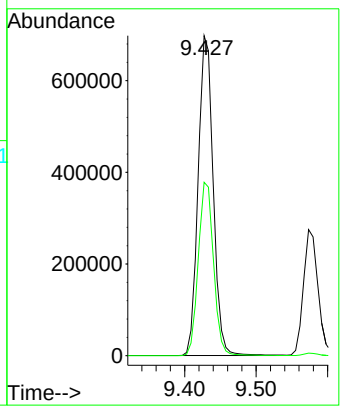


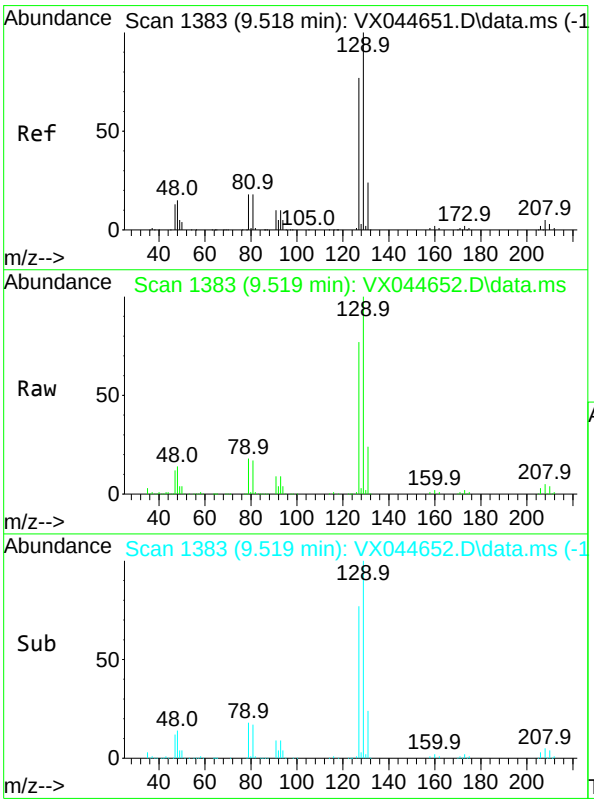

#59
2-Hexanone
Concen: 469.454 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 43 Resp: 1019940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.0 | 27.8 | 83.3 |

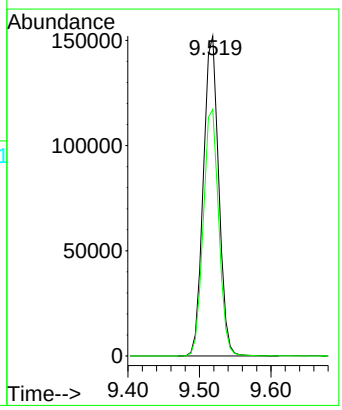


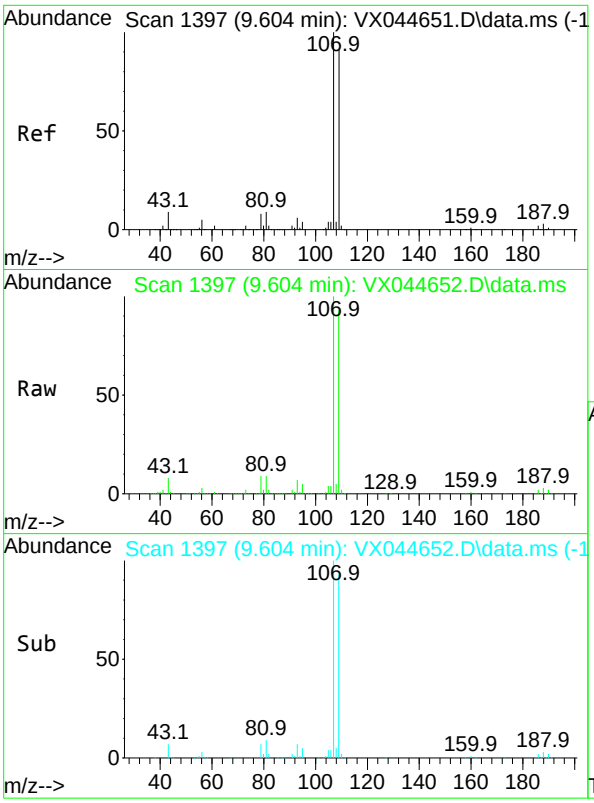




#60
Dibromochloromethane
Concen: 92.570 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:129 Resp: 227418

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |



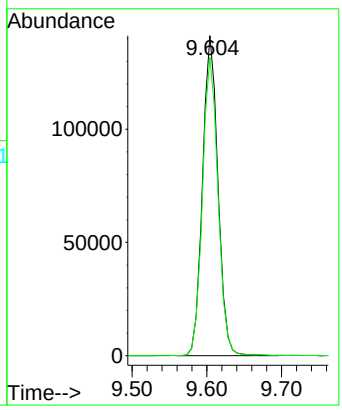


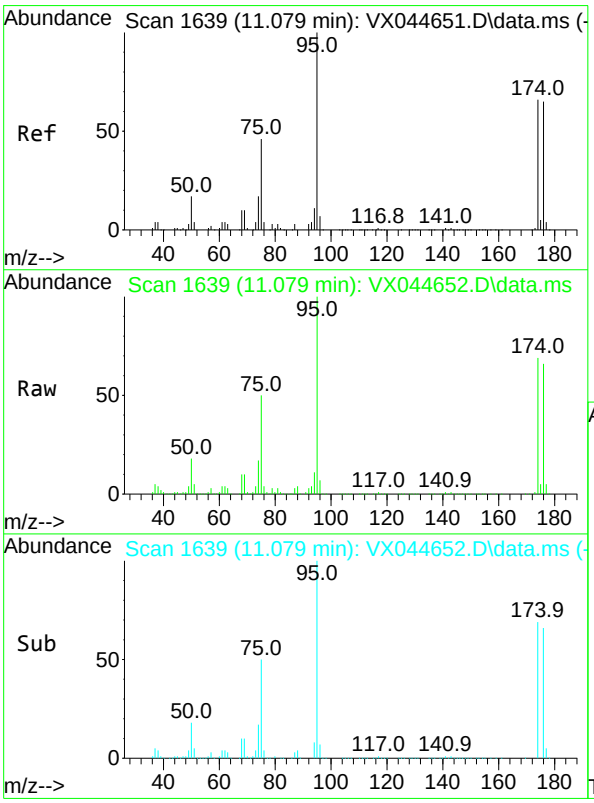

#61
1,2-Dibromoethane
Concen: 92.200 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:107 Resp: 202247

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.7 | 75.3 | 112.9 |

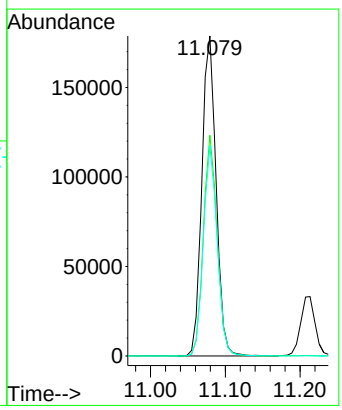


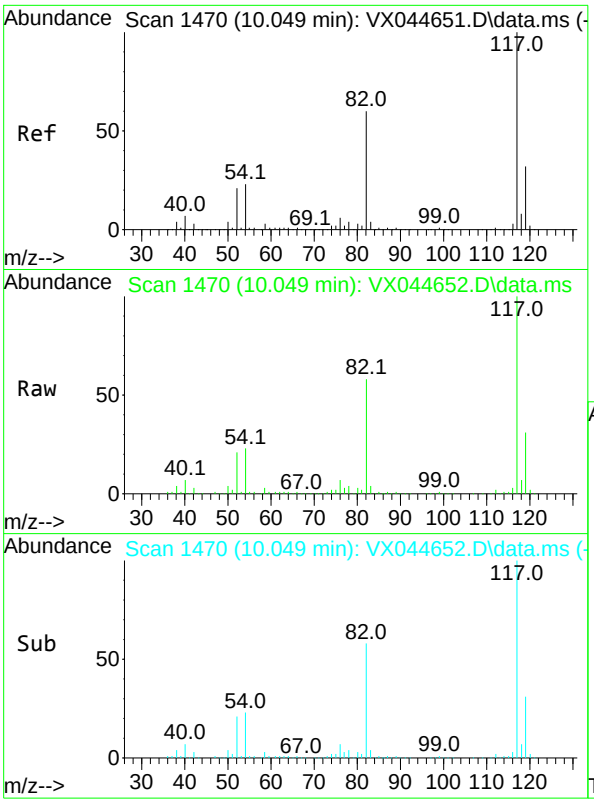




#62
4-Bromofluorobenzene
Concen: 92.702 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 95 Resp: 236119

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 66.9 | 0.0 | 133.0 |
| 176 | 64.0 | 0.0 | 129.4 |



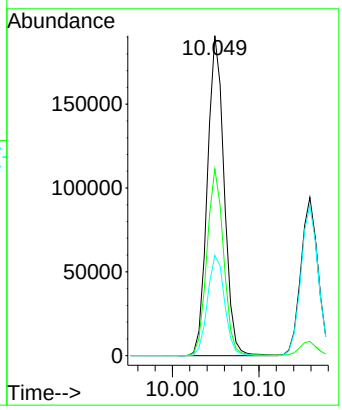


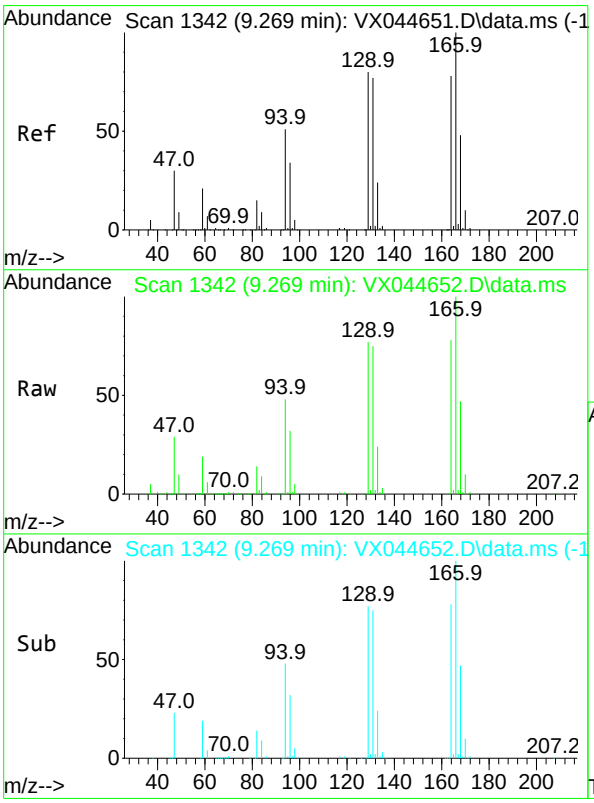

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:117 Resp: 255886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.3 | 47.6 | 71.4 |
| 119 | 31.3 | 25.4 | 38.2 |

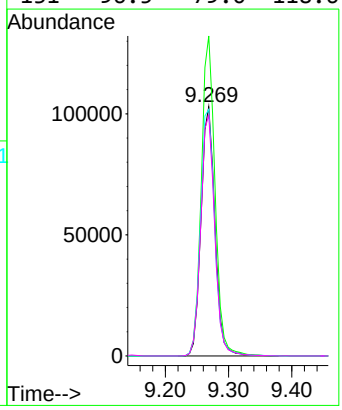


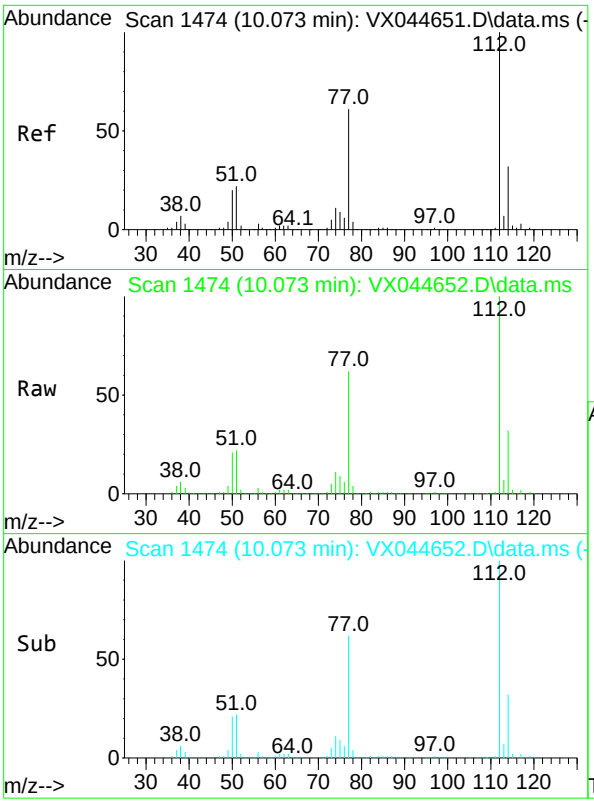




#64
Tetrachloroethene
Concen: 98.176 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:164 Resp: 157748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 128.4 | 102.0 | 153.0 |
| 129 | 98.9 | 81.1 | 121.7 |
| 131 | 96.5 | 79.0 | 118.6 |



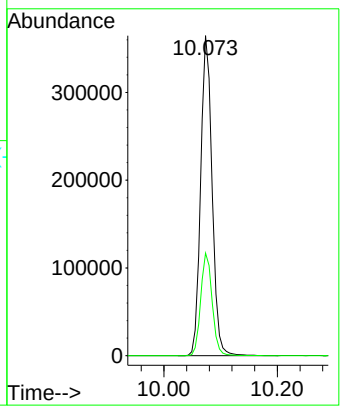


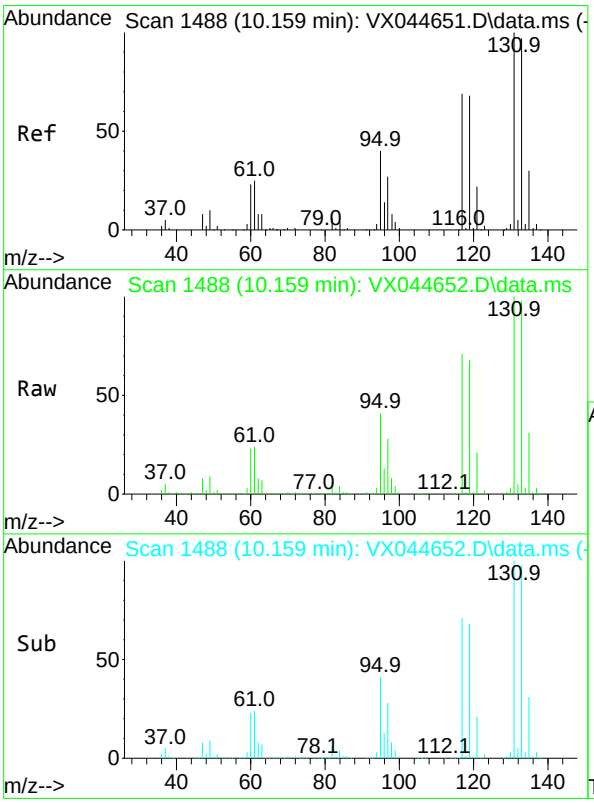

#65
Chlorobenzene
Concen: 94.003 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:112 Resp: 510916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.0 | 25.3 | 37.9 |

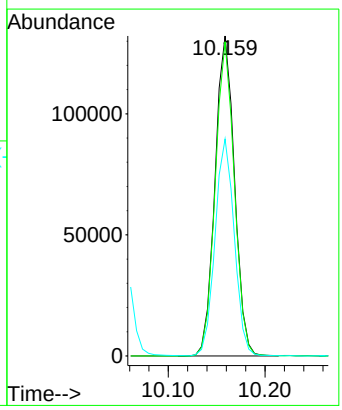


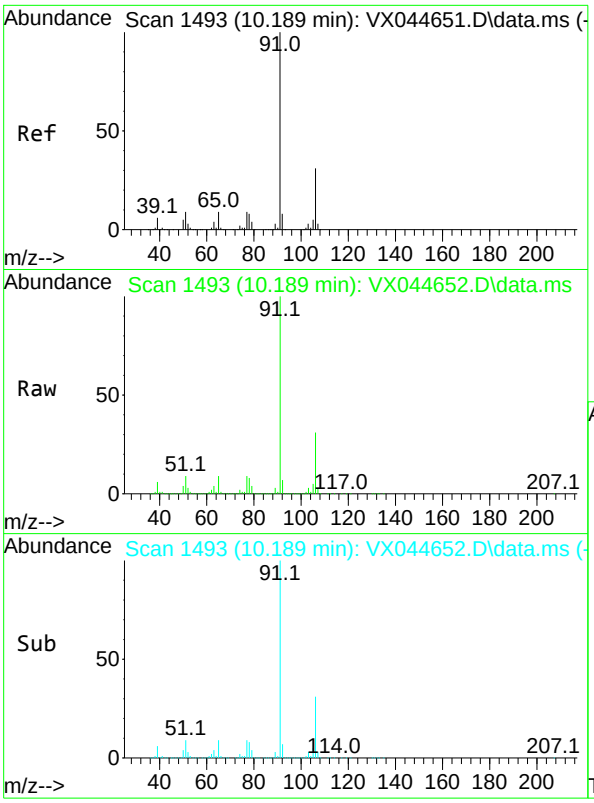




#66
1,1,1,2-Tetrachloroethane
Concen: 93.565 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:131 Resp: 184816

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.0 | 47.8 | 143.3 |
| 119 | 67.1 | 33.4 | 100.2 |



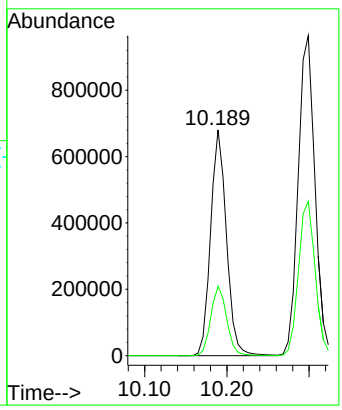


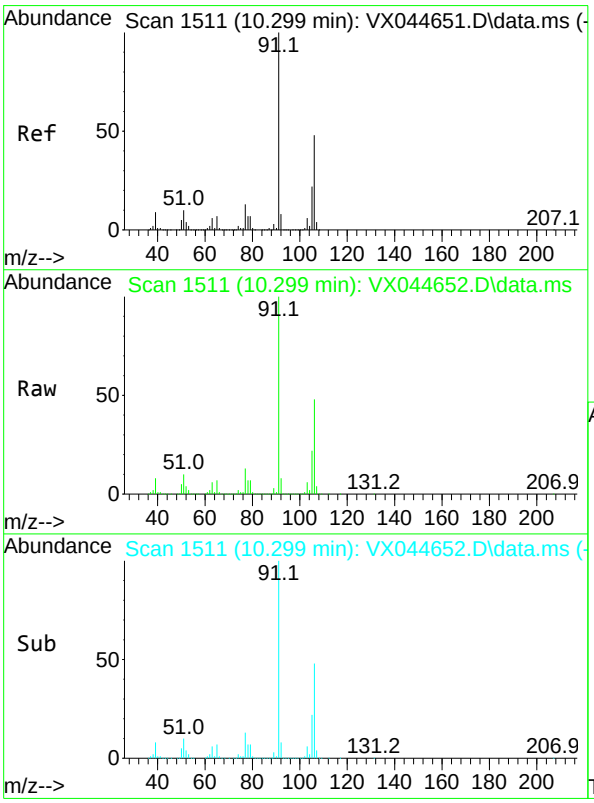

#67
Ethyl Benzene
Concen: 95.872 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 909208

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.7 | 25.0 | 37.6 |

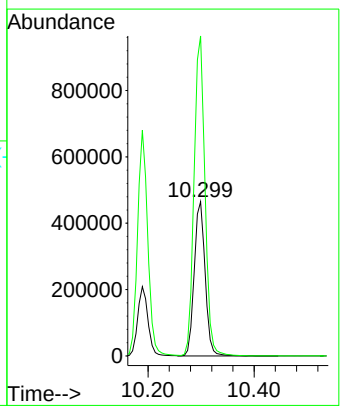


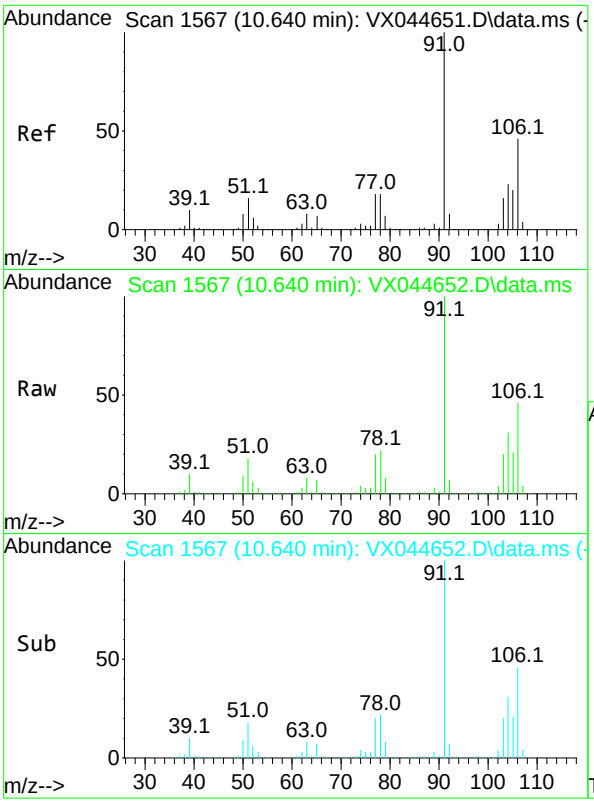




#68
m/p-Xylenes
Concen: 187.963 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:106 Resp: 661488

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.9 | 166.4 | 249.6 |



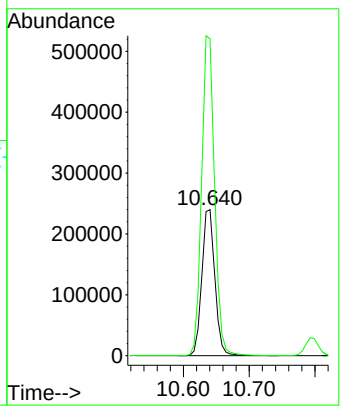


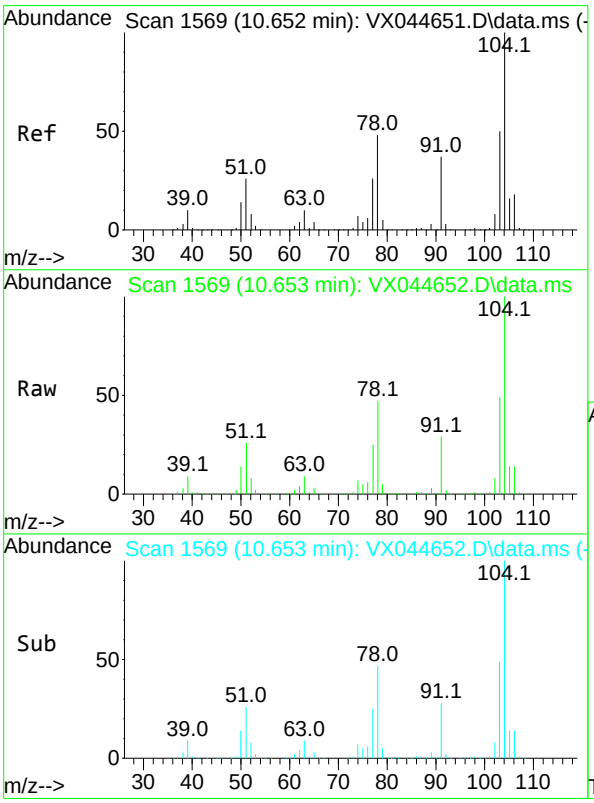

#69
o-Xylene
Concen: 92.536 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:106 Resp: 329336

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 218.7 | 108.7 | 326.3 |

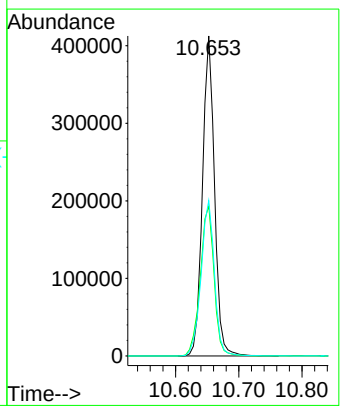


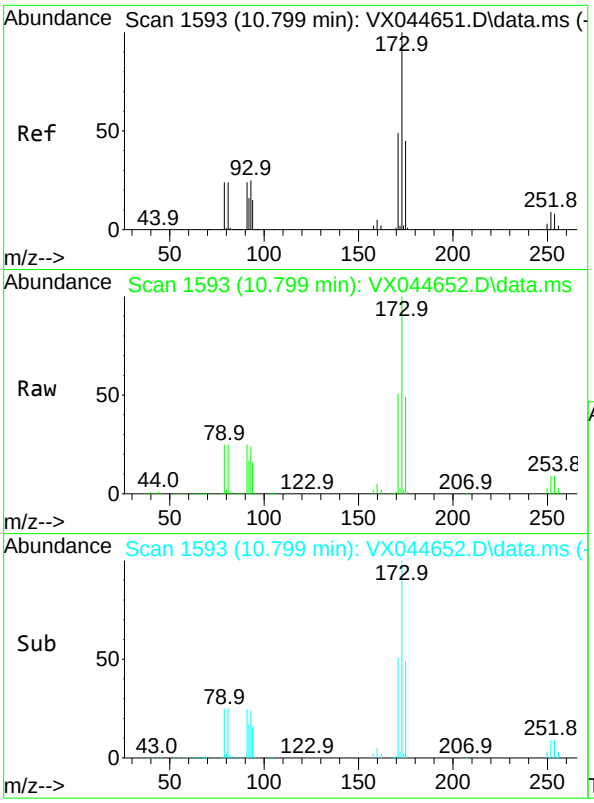




#70
Styrene
Concen: 95.197 ug/l
RT: 10.653 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:104 Resp: 547016

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.9 | 43.0 | 64.6 |
| 103 | 54.1 | 43.4 | 65.2 |



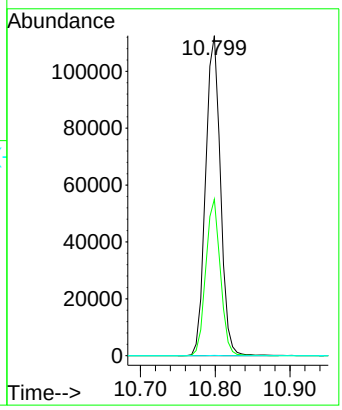


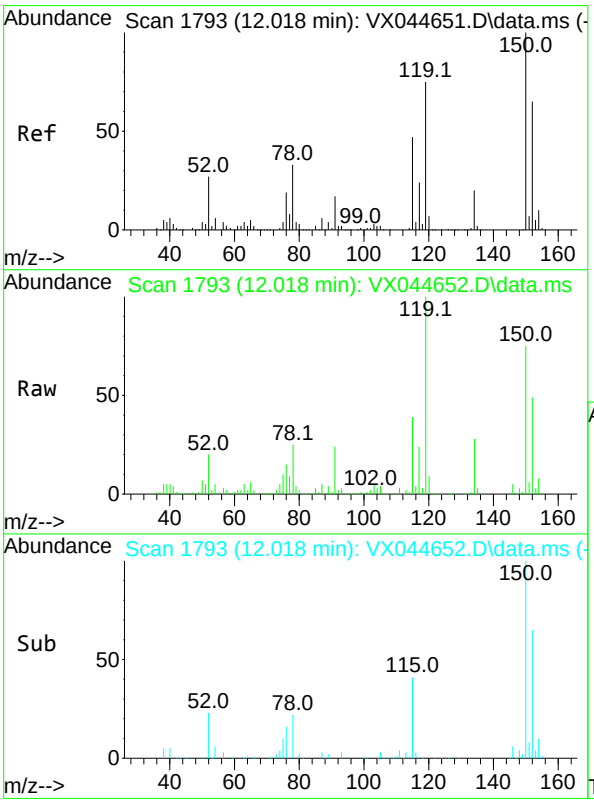

#71
Bromoform
Concen: 96.648 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:173 Resp: 155379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.0 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1# |

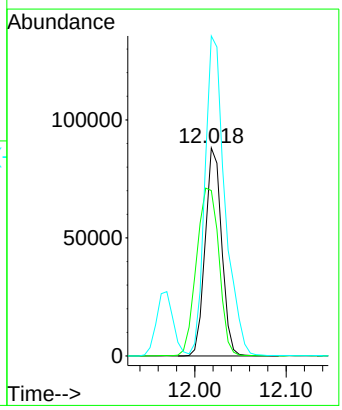


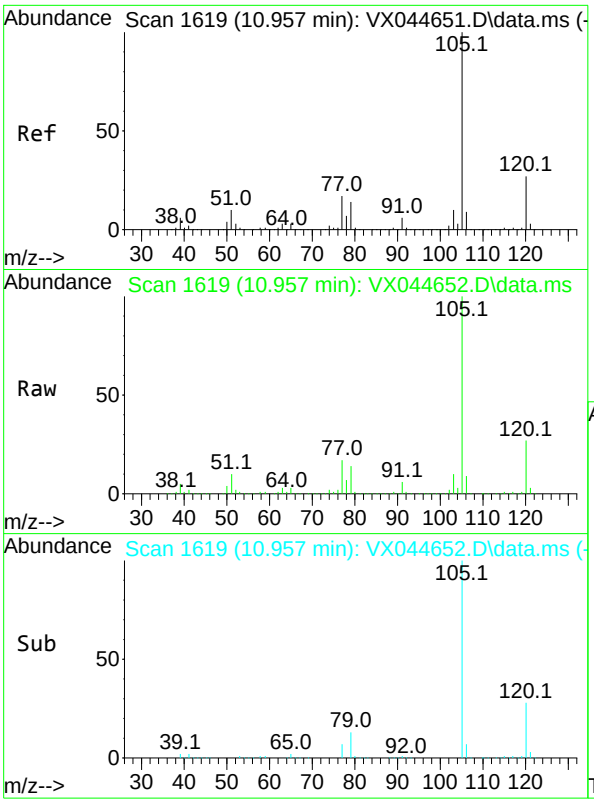




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:152 Resp: 110019

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 110.6 | 43.8 | 131.4 |
| 150 | 186.5 | 0.0 | 347.8 |



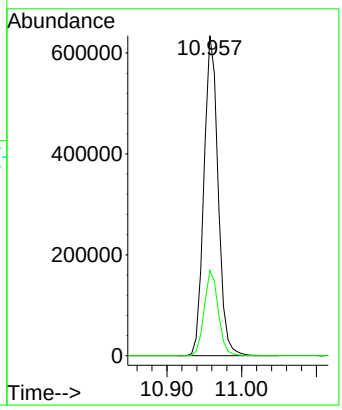


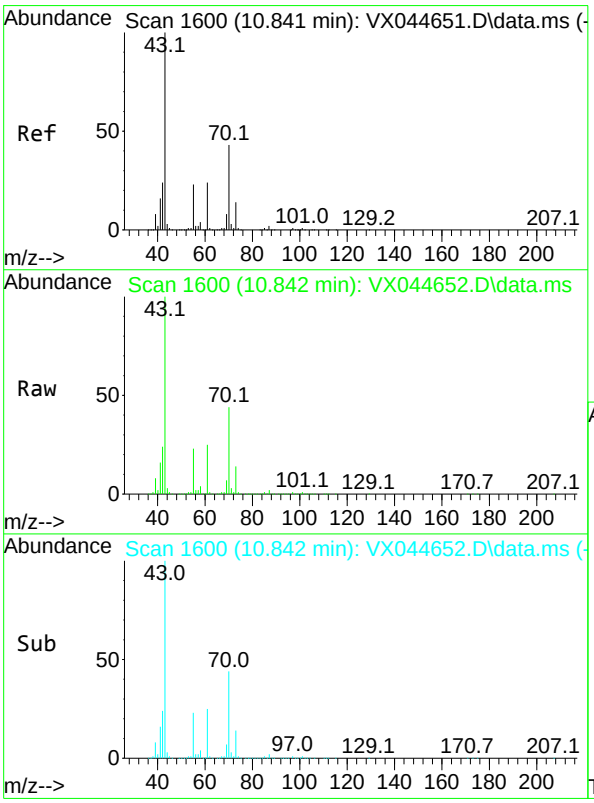

#73
Isopropylbenzene
Concen: 92.779 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 833874

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.2 | 39.6 |

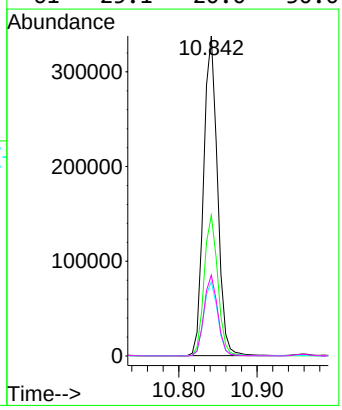


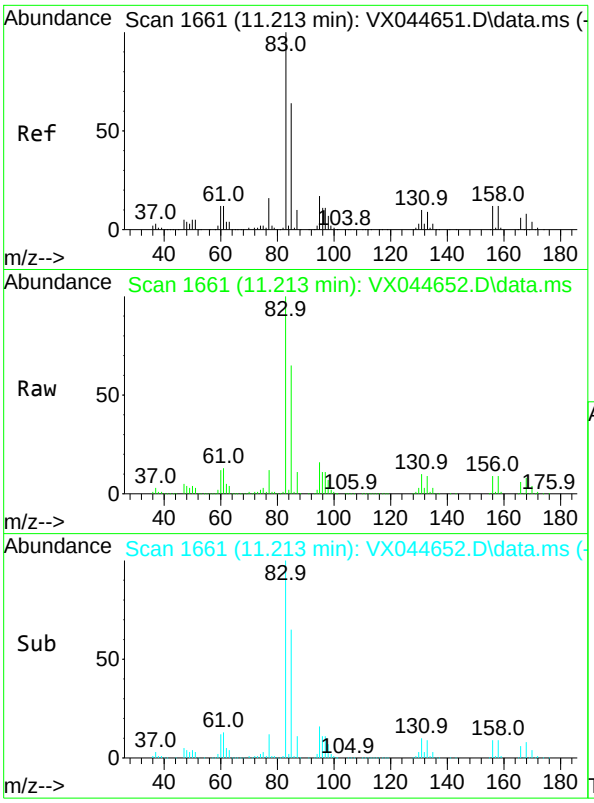




#74
N-amyl acetate
Concen: 93.463 ug/l
RT: 10.842 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 43 Resp: 414046

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.5 | 35.2 | 52.8 |
| 55 | 23.3 | 19.0 | 28.4 |
| 61 | 25.1 | 20.0 | 30.0 |



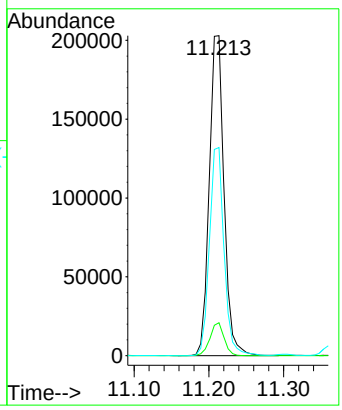


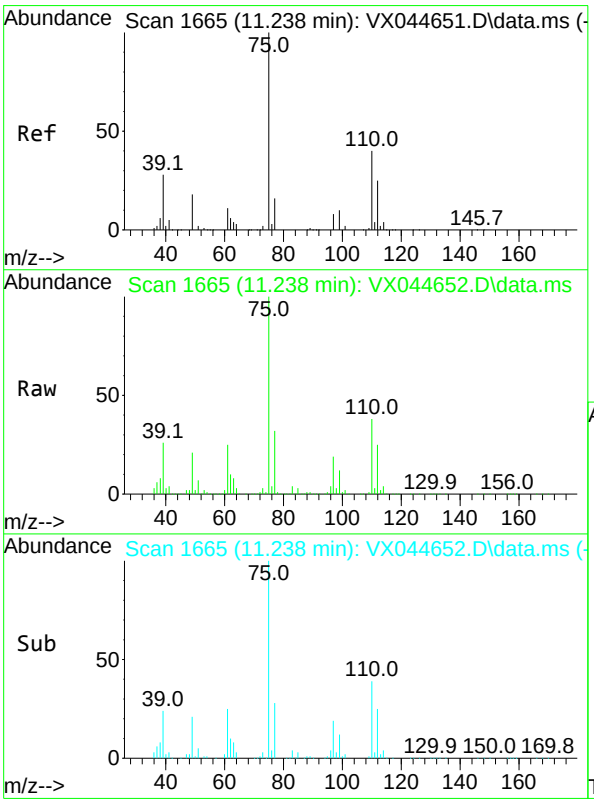

#75
1,1,2,2-Tetrachloroethane
Concen: 89.776 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 83 Resp: 278679

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.0 | 14.9 |
| 85 | 64.5 | 32.0 | 96.2 |

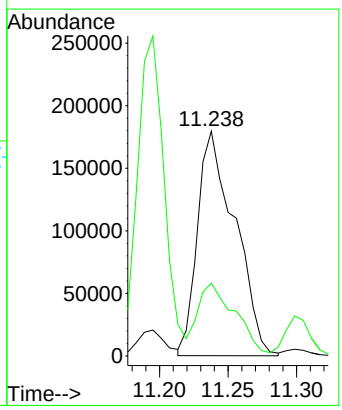


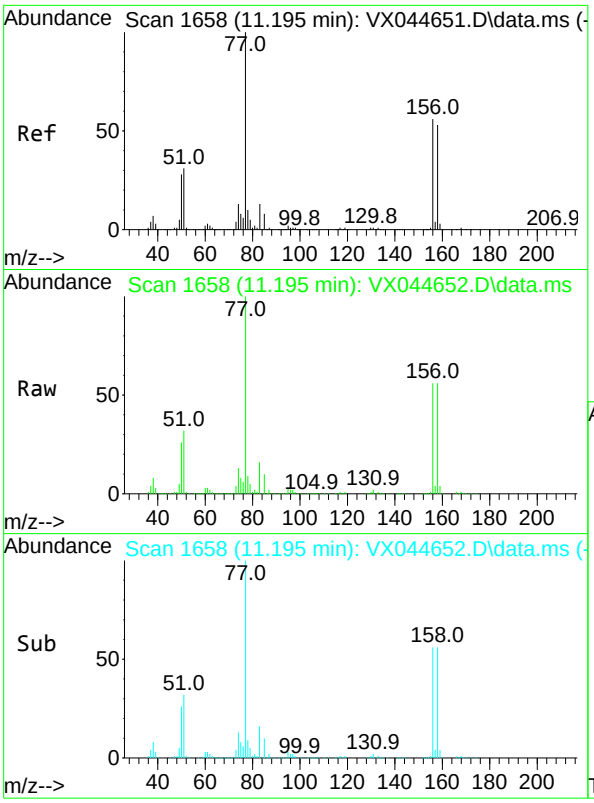




#76
1,2,3-Trichloropropane
Concen: 127.834 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 341318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 23.4 | 70.2 |



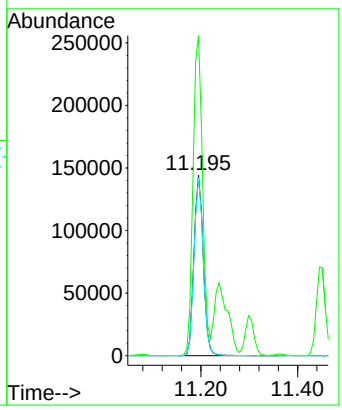


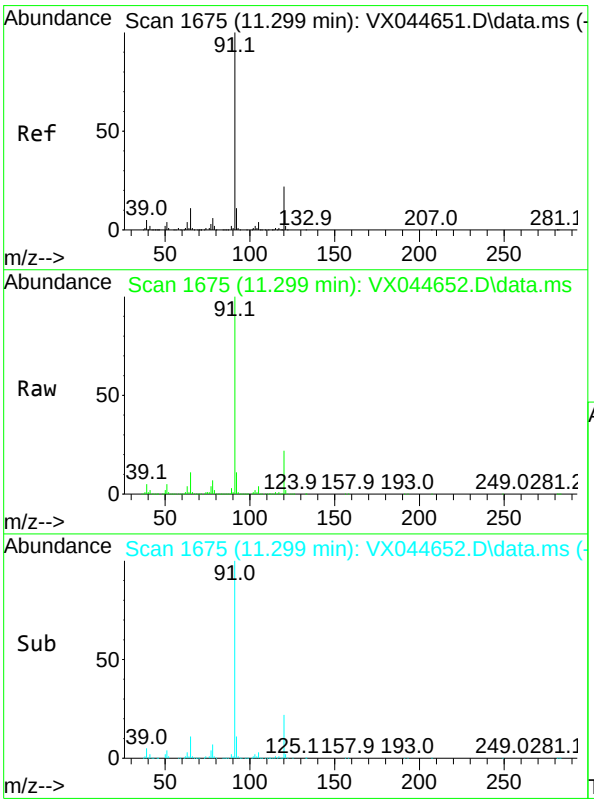

#77
Bromobenzene
Concen: 91.729 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:156 Resp: 192700

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 181.5 | 90.3 | 271.0 |
| 158 | 97.9 | 48.4 | 145.3 |

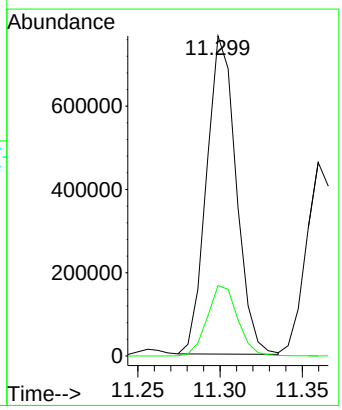


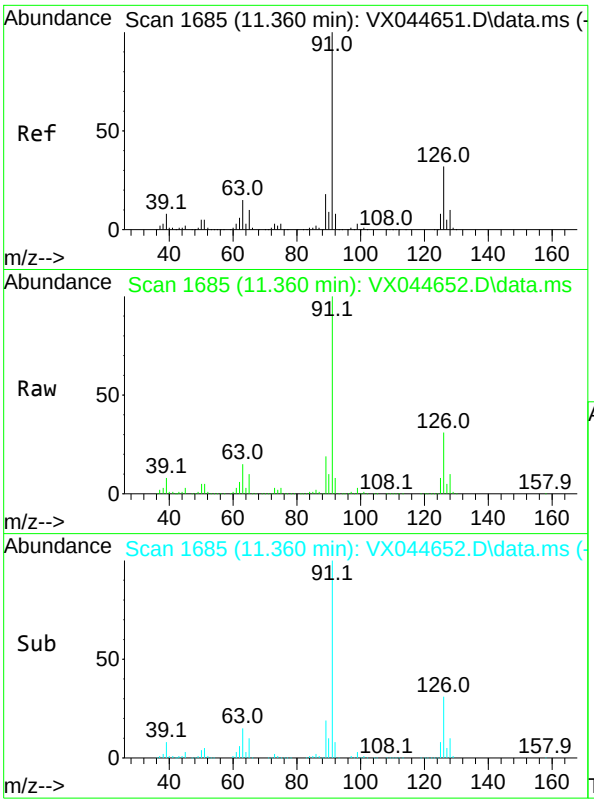




#78
n-propylbenzene
Concen: 96.470 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 91 Resp: 956202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.4 | 34.1 |



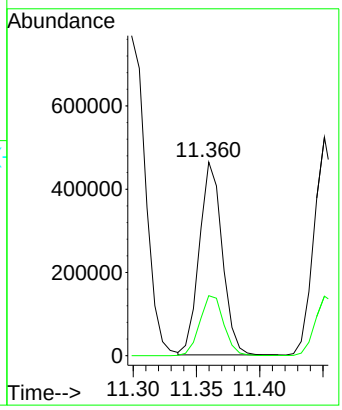


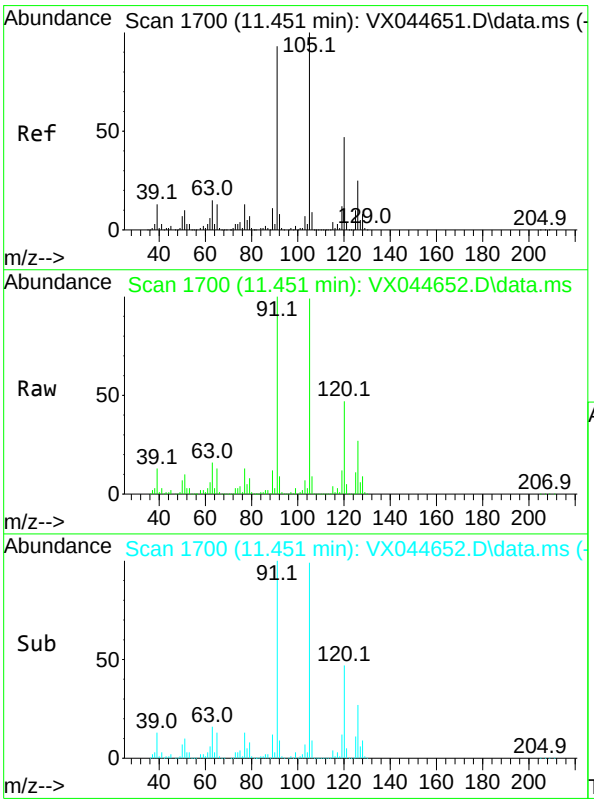

#79
2-Chlorotoluene
Concen: 91.317 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 584682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.6 | 16.2 | 48.5 |

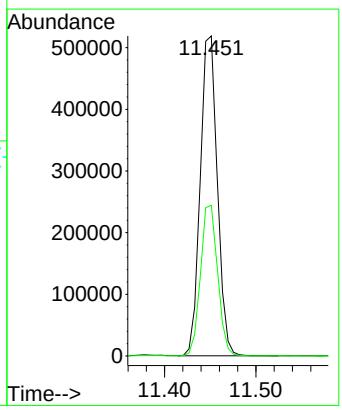


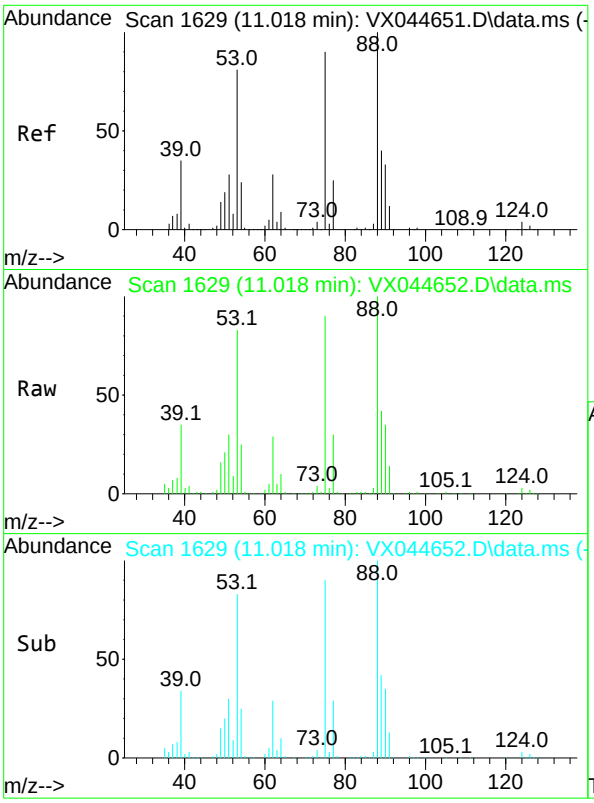




#80
1,3,5-Trimethylbenzene
Concen: 91.926 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:105 Resp: 672586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.2 | 23.7 | 71.1 |



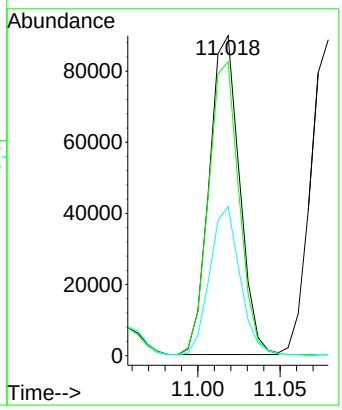


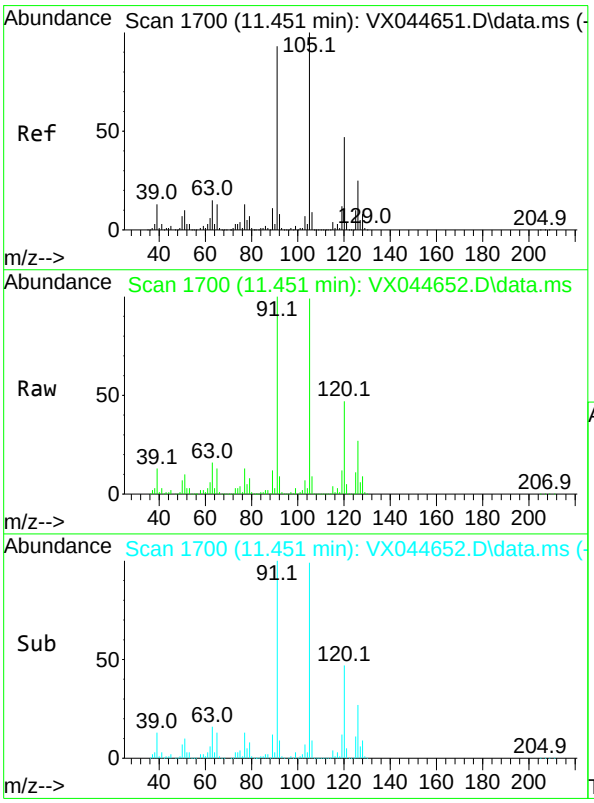

#81
trans-1,4-Dichloro-2-butene
Concen: 98.354 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 75 Resp: 114832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.6 | 74.3 | 111.5 |
| 89 | 47.4 | 37.4 | 56.0 |

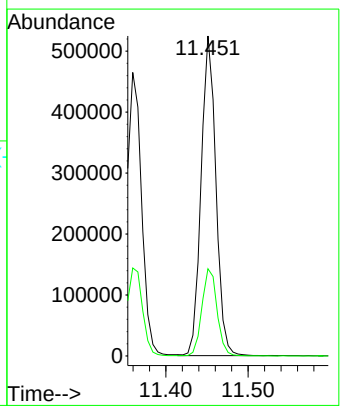


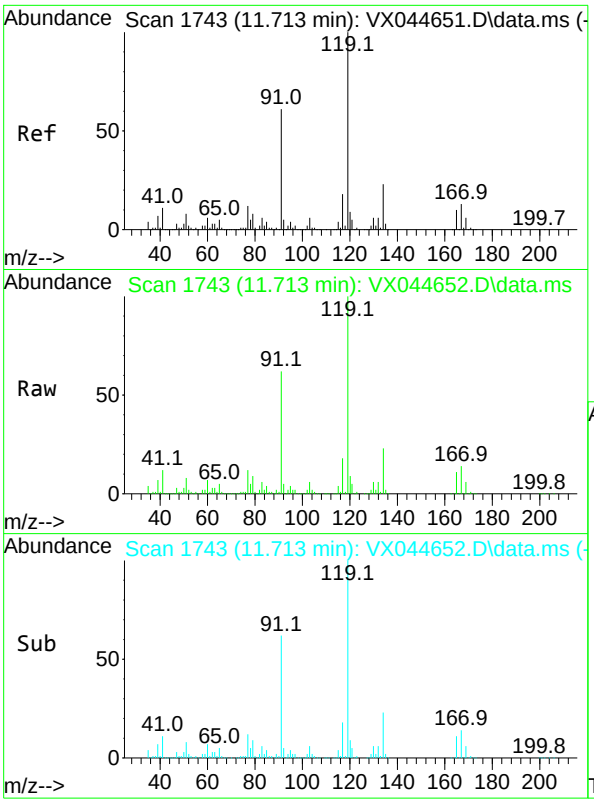




#82
4-Chlorotoluene
Concen: 93.421 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 91 Resp: 655250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.9 | 13.9 | 41.7 |



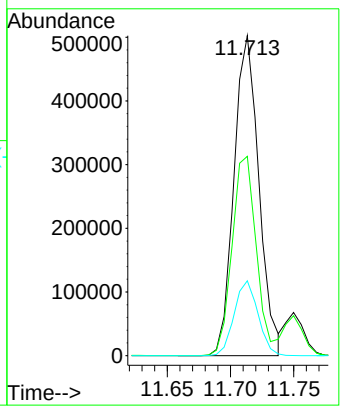


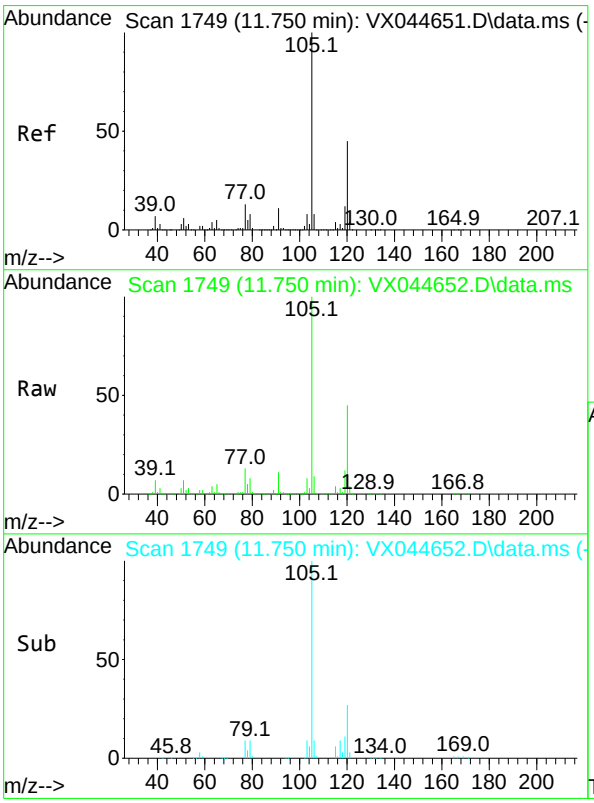

#83
tert-Butylbenzene
Concen: 90.233 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:119 Resp: 690320

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 59.9 | 30.0 | 90.0 |
| 134 | 22.4 | 11.2 | 33.5 |

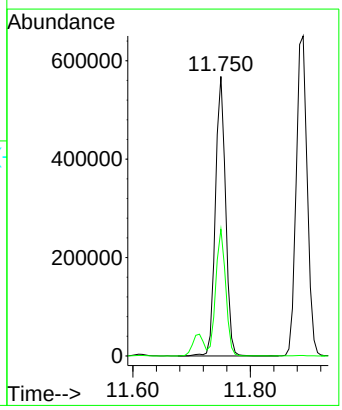


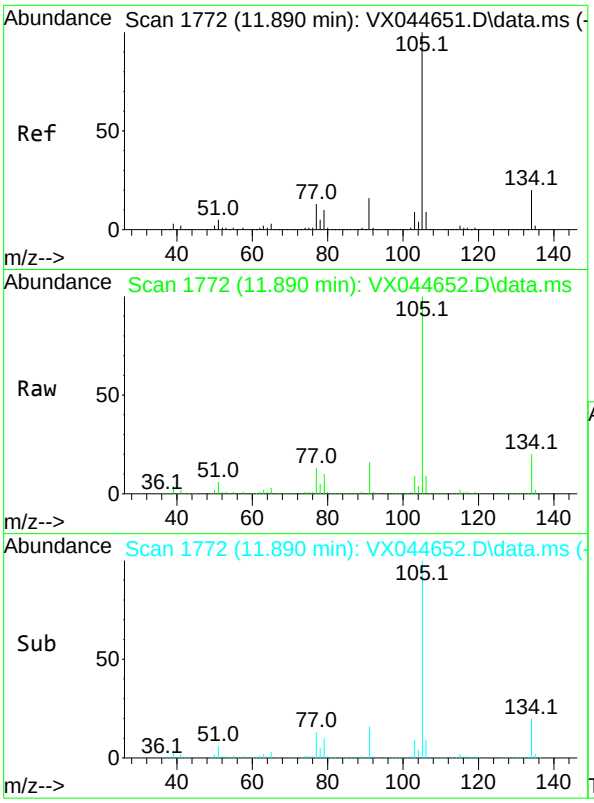




#84
1,2,4-Trimethylbenzene
Concen: 91.646 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:105 Resp: 681398

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.4 | 22.2 | 66.6 |



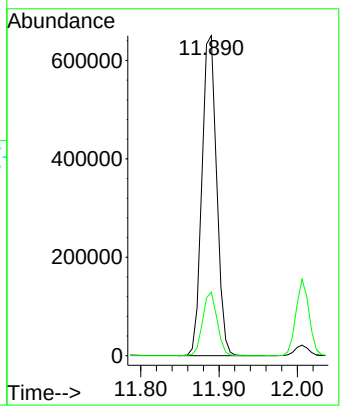


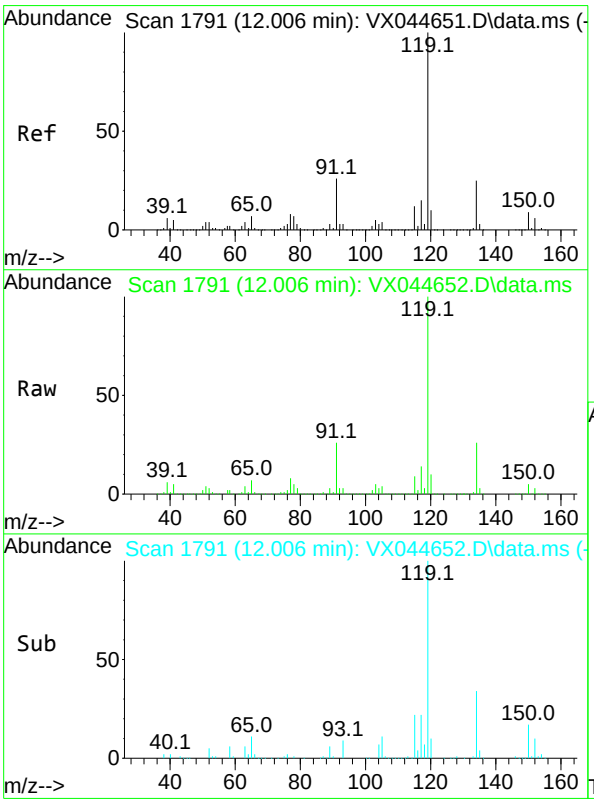

#85
sec-Butylbenzene
Concen: 95.235 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:105 Resp: 848327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.8 | 29.5 |

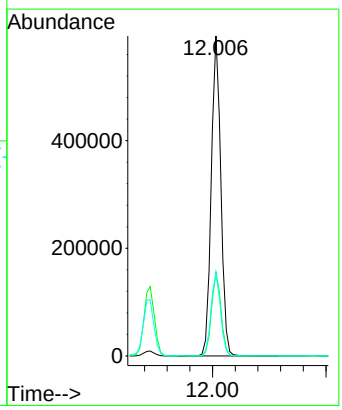


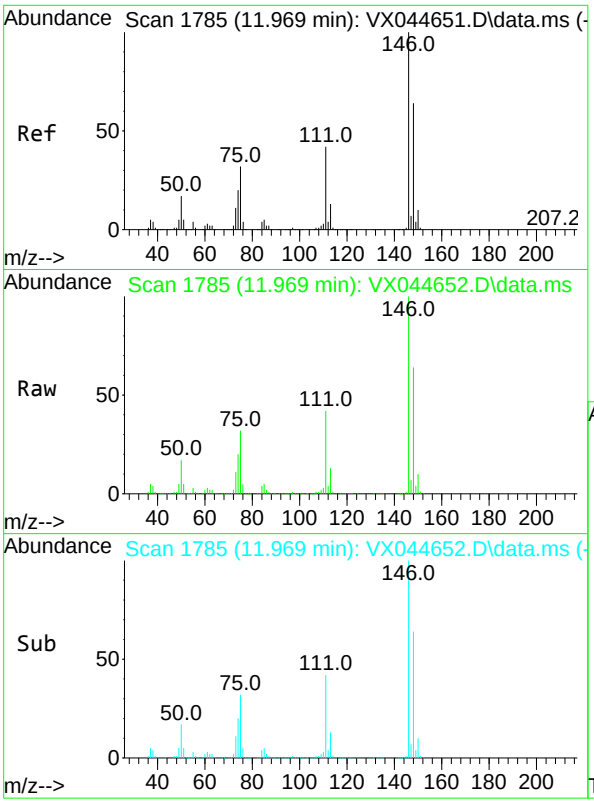




#86
p-Isopropyltoluene
Concen: 94.999 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:119 Resp: 695433

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.1 | 12.8 | 38.4 |
| 91 | 25.7 | 12.7 | 38.1 |



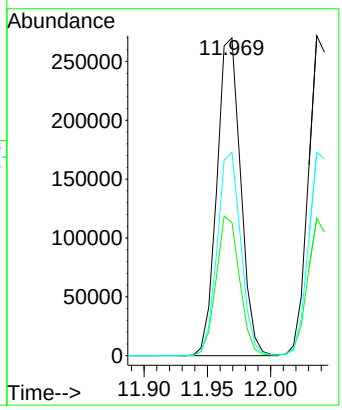


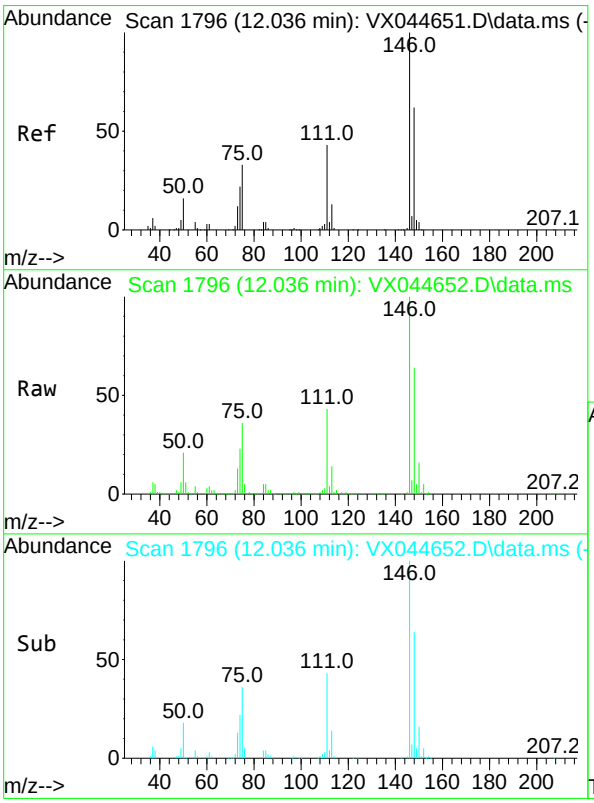

#87
1,3-Dichlorobenzene
Concen: 97.115 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 353809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.2 | 21.9 | 65.7 |
| 148 | 63.3 | 31.8 | 95.4 |

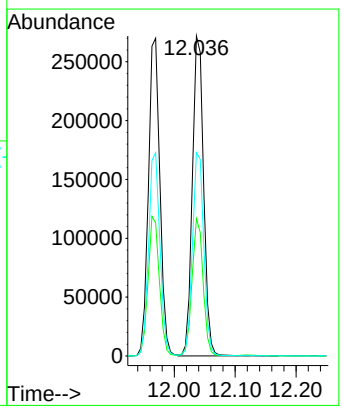


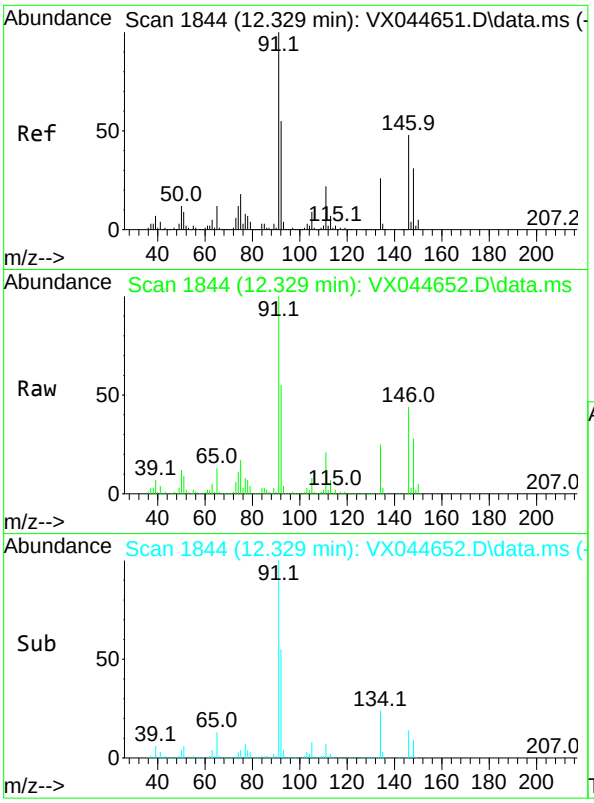




#88
1,4-Dichlorobenzene
Concen: 94.359 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:146 Resp: 347517

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.1 | 21.5 | 64.5 |
| 148 | 63.9 | 32.1 | 96.5 |



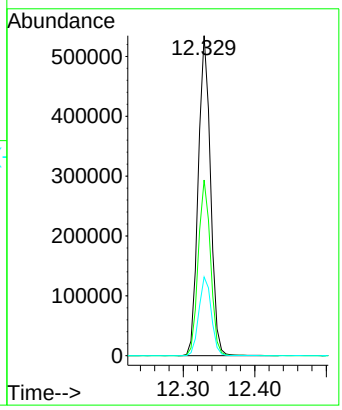


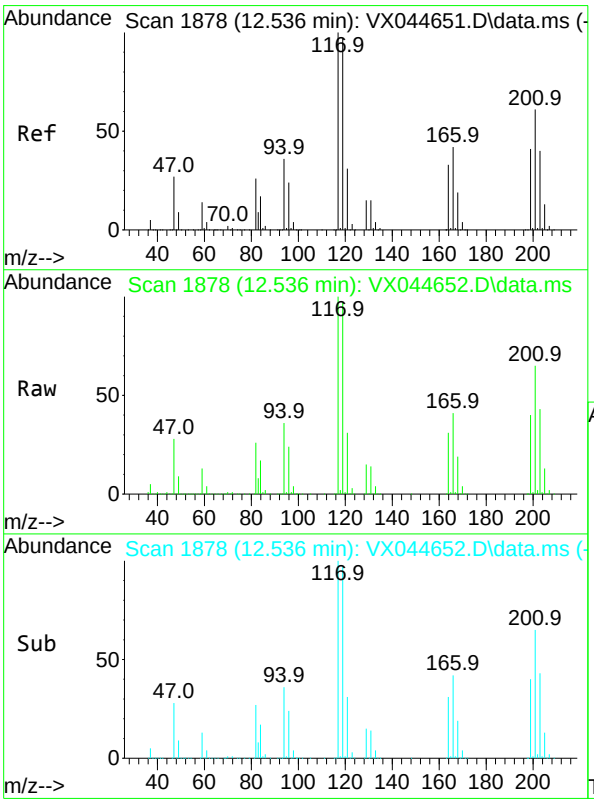

#89
n-Butylbenzene
Concen: 100.715 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion: 91 Resp: 633246

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 27.4 | 82.0 |
| 134 | 25.1 | 12.8 | 38.3 |

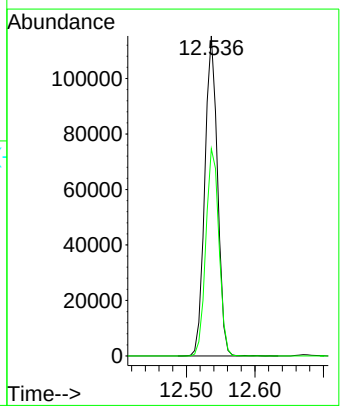


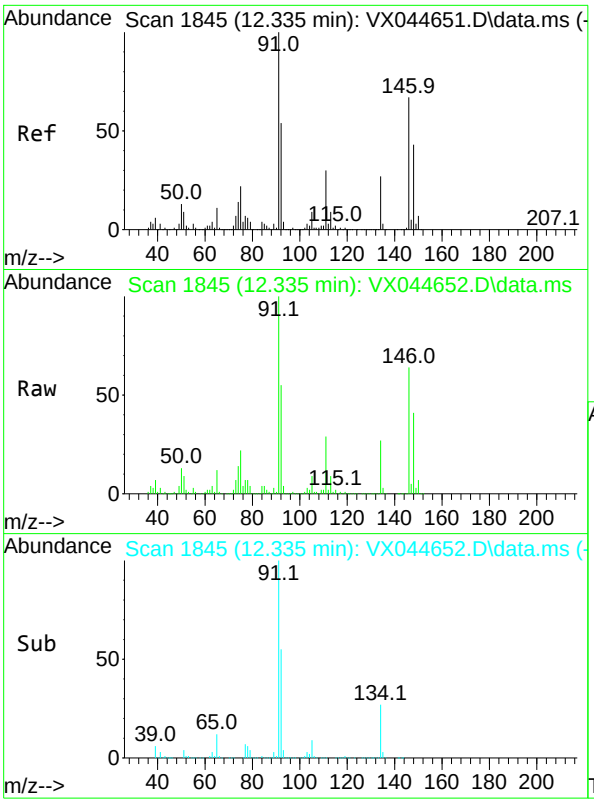




#90
Hexachloroethane
Concen: 90.037 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:117 Resp: 149253

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 66.5 | 32.3 | 96.8 |



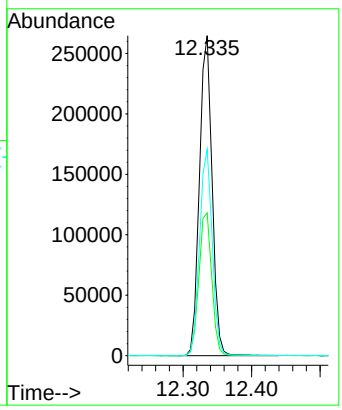


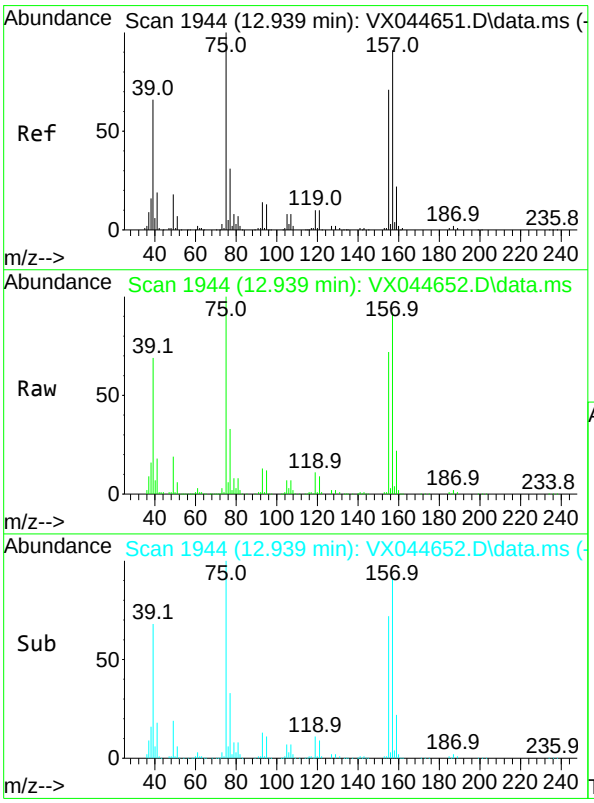

#91
1,2-Dichlorobenzene
Concen: 91.056 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:146 Resp: 340683

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.7 | 22.4 | 67.2 |
| 148 | 64.4 | 31.6 | 94.8 |

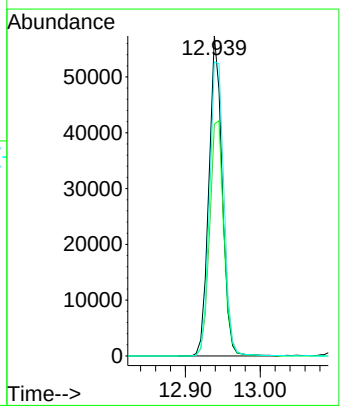


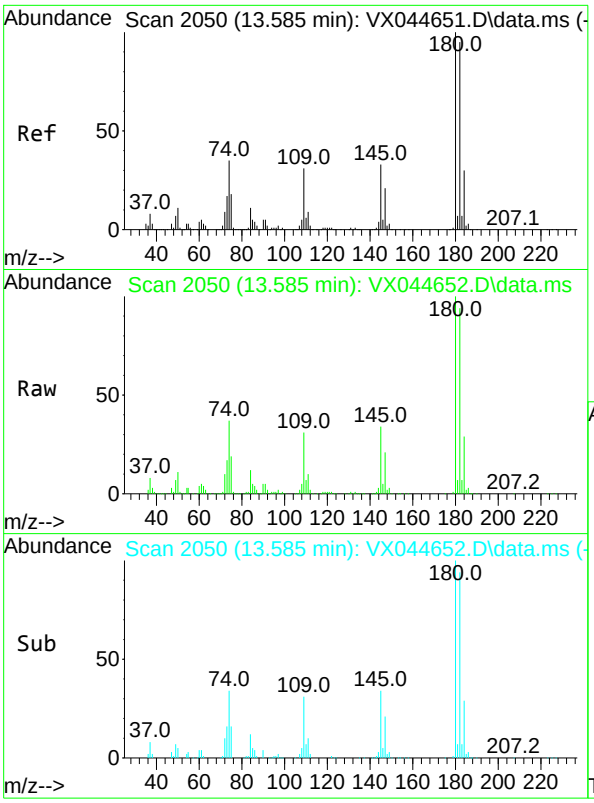




#92
1,2-Dibromo-3-Chloropropane
Concen: 93.344 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion: 75 Resp: 70862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 78.9 | 39.0 | 116.9 |
| 157 | 99.1 | 49.9 | 149.7 |



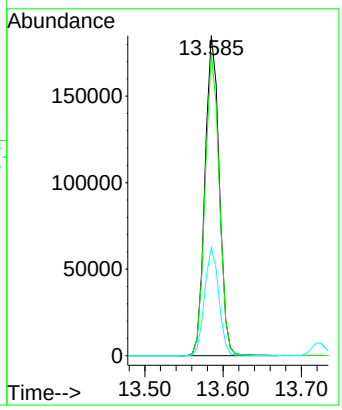


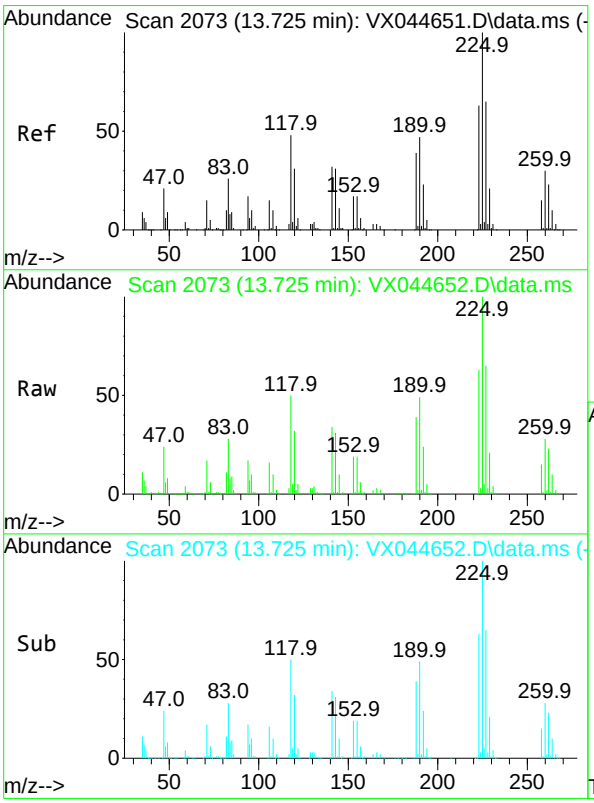

#93
1,2,4-Trichlorobenzene
Concen: 104.359 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:180 Resp: 233417

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 47.4 | 142.2 |
| 145 | 33.7 | 16.7 | 50.1 |

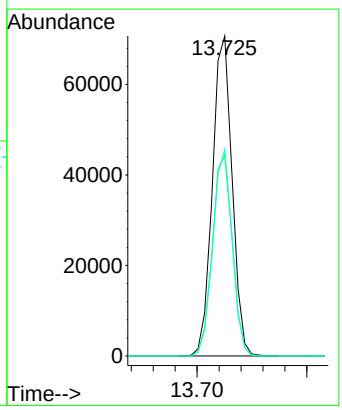


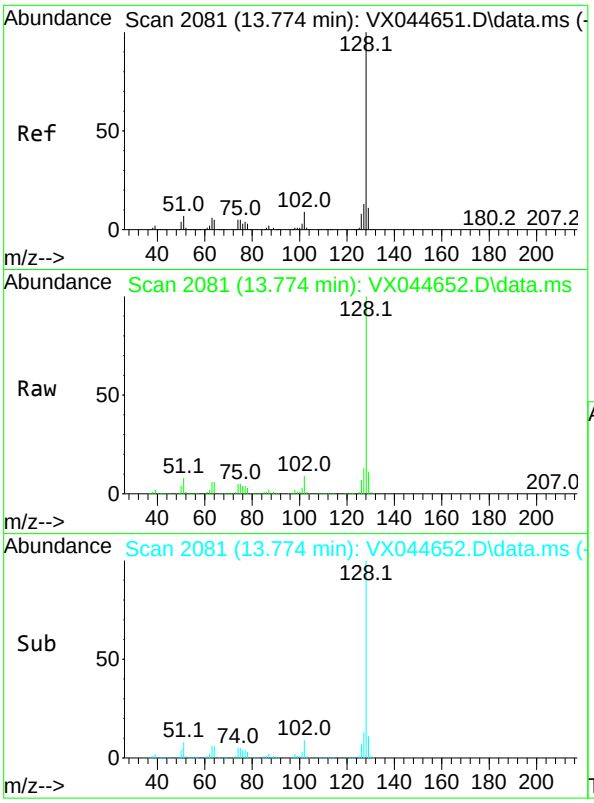




#94
Hexachlorobutadiene
Concen: 100.406 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:225 Resp: 88214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.6 | 31.9 | 95.7 |
| 227 | 63.4 | 31.8 | 95.4 |



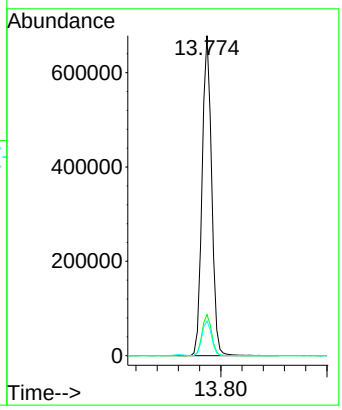


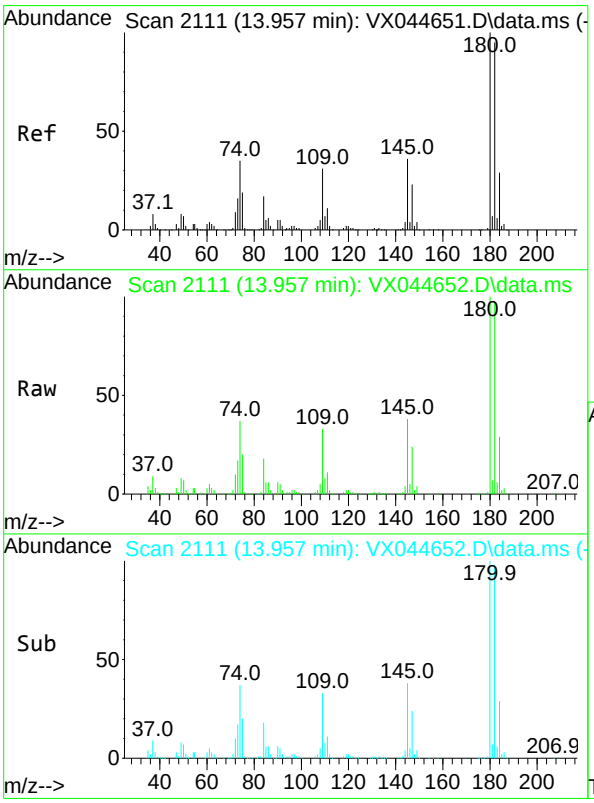

#95
Naphthalene
Concen: 98.464 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC100

Tgt Ion:128 Resp: 849403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.9 | 10.3 | 15.5 |
| 129 | 10.9 | 8.7 | 13.1 |

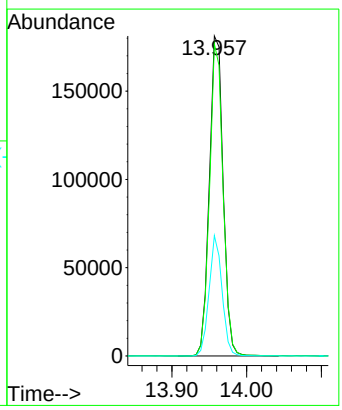



#96
1,2,3-Trichlorobenzene
Concen: 100.133 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044652.D
Acq: 15 Jan 2025 13:14

Tgt Ion:180 Resp: 232152

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 96.0 | 47.2 | 141.6 |
| 145 | 35.5 | 17.5 | 52.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044653.D
Acq On : 15 Jan 2025 13:37
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Quant Time: Jan 30 04:56:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 160078 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 290219 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 234362 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 100996 | 50.000 | ug/l | # 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 377212 | 156.114 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 312.220%# | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 289994 | 157.288 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 314.580%# | | | |
| 50) Toluene-d8 | 8.647 | 98 | 961550 | 149.572 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 299.140%# | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 366922 | 153.105 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 306.200%# | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 366593 | 170.185 | ug/l | 98 |
| 3) Chloromethane | 1.300 | 50 | 342210 | 146.909 | ug/l | 97 |
| 4) Vinyl Chloride | 1.374 | 62 | 359721 | 156.293 | ug/l | 99 |
| 5) Bromomethane | 1.593 | 94 | 87716 | 159.609 | ug/l | 97 |
| 6) Chloroethane | 1.660 | 64 | 71666 | 169.800 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.855 | 101 | 398544 | 156.676 | ug/l | 97 |
| 8) Diethyl Ether | 2.136 | 74 | 154291 | 150.299 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 2.313 | 101 | 302048 | 157.960 | ug/l | 99 |
| 10) Methyl Iodide | 2.441 | 142 | 394541 | 151.126 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.995 | 59 | 198451 | 368.414 | ug/l # | 88 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 296987 | 158.449 | ug/l | 99 |
| 13) Acrolein | 2.239 | 56 | 193280 | 762.485 | ug/l | 99 |
| 14) Allyl chloride | 2.654 | 41 | 534150 | 146.366 | ug/l | 100 |
| 15) Acrylonitrile | 3.068 | 53 | 783976 | 742.040 | ug/l | 99 |
| 16) Acetone | 2.392 | 43 | 708100 | 740.713 | ug/l | 100 |
| 17) Carbon Disulfide | 2.495 | 76 | 803379 | 157.079 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 483139 | 163.814 | ug/l | 100 |
| 19) Methyl tert-butyl Ether | 3.117 | 73 | 1034710 | 152.410 | ug/l | 99 |
| 20) Methylene Chloride | 2.782 | 84 | 325957 | 146.417 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 290671 | 148.536 | ug/l | 98 |
| 22) Diisopropyl ether | 3.763 | 45 | 957045 | 150.864 | ug/l | 91 |
| 23) Vinyl Acetate | 3.721 | 43 | 4101581 | 738.701 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 594429 | 158.014 | ug/l | 99 |
| 25) 2-Butanone | 4.562 | 43 | 1079716 | 759.640 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.465 | 77 | 550106 | 150.882 | ug/l | 99 |
| 27) cis-1,2-Dichloroethene | 4.477 | 96 | 370177 | 150.386 | ug/l | 99 |
| 28) Bromochloromethane | 4.891 | 49 | 251238 | 142.922 | ug/l | 99 |
| 29) Tetrahydrofuran | 5.007 | 42 | 689928 | 752.528 | ug/l | 99 |
| 30) Chloroform | 5.086 | 83 | 579322 | 152.595 | ug/l | 99 |
| 31) Cyclohexane | 5.458 | 56 | 476106 | 156.483 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 522062 | 149.582 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 386304 | 150.517 | ug/l | 99 |
| 37) Ethyl Acetate | 4.715 | 43 | 433924 | 158.764 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 437442 | 151.528 | ug/l | 99 |
| 39) Methylcyclohexane | 7.373 | 83 | 534976 | 157.021 | ug/l | 99 |
| 40) Benzene | 6.031 | 78 | 1205057 | 151.523 | ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044653.D
Acq On : 15 Jan 2025 13:37
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Quant Time: Jan 30 04:56:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 238601 | 149.816 | ug/l | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 446380 | 153.782 | ug/l | 98 |
| 43) Isopropyl Acetate | 6.336 | 43 | 761866 | 151.528 | ug/l | 100 |
| 44) Trichloroethene | 7.117 | 130 | 309226 | 161.735 | ug/l | 96 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 308641 | 154.175 | ug/l | 99 |
| 46) Dibromomethane | 7.574 | 93 | 231674 | 152.021 | ug/l | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 471682 | 150.924 | ug/l | 99 |
| 48) Methyl methacrylate | 7.690 | 41 | 368626 | 157.946 | ug/l | 99 |
| 49) 1,4-Dioxane | 7.671 | 88 | 146350 | 3005.585 | ug/l | 99 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 1994498 | 717.818 | ug/l | 100 |
| 52) Toluene | 8.714 | 92 | 699585 | 143.719 | ug/l | 100 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 490414 | 151.880 | ug/l | 96 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 524796 | 149.891 | ug/l | 98 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 279505 | 141.923 | ug/l | 99 |
| 56) Ethyl methacrylate | 9.116 | 69 | 499842 | 147.609 | ug/l | 100 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 485347 | 144.720 | ug/l | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 1178391 | 708.825 | ug/l | 99 |
| 59) 2-Hexanone | 9.433 | 43 | 1482861 | 725.401 | ug/l | 99 |
| 60) Dibromochloromethane | 9.519 | 129 | 335937 | 145.333 | ug/l | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 296982 | 143.893 | ug/l | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 229004 | 155.612 | ug/l | 98 |
| 65) Chlorobenzene | 10.079 | 112 | 750161 | 150.697 | ug/l | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 276991 | 153.108 | ug/l | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 1315242 | 151.424 | ug/l | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 941355 | 292.054 | ug/l | 100 |
| 69) o-Xylene | 10.640 | 106 | 473907 | 145.386 | ug/l | 98 |
| 70) Styrene | 10.652 | 104 | 792889 | 150.660 | ug/l | 100 |
| 71) Bromoform | 10.799 | 173 | 232464 | 157.877 | ug/l | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 1207427 | 146.343 | ug/l | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 622491 | 153.069 | ug/l | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 415068 | 145.660 | ug/l | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 505752 | 206.343 | ug/l | 78 |
| 77) Bromobenzene | 11.195 | 156 | 288579 | 149.641 | ug/l | 100 |
| 78) n-propylbenzene | 11.305 | 91 | 1375979 | 151.223 | ug/l | 100 |
| 79) 2-Chlorotoluene | 11.366 | 91 | 857617 | 145.911 | ug/l | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 959600 | 142.870 | ug/l | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 171786 | 160.280 | ug/l | 99 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 957835 | 148.761 | ug/l | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 999760 | 142.356 | ug/l | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 991595 | 145.281 | ug/l | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 1214662 | 148.543 | ug/l | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 1000632 | 148.902 | ug/l | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 521112 | 155.816 | ug/l | 100 |
| 88) 1,4-Dichlorobenzene | 12.042 | 146 | 516467 | 152.762 | ug/l | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 904589 | 156.724 | ug/l | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 222866 | 146.455 | ug/l | 98 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 511280 | 148.860 | ug/l | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 107815 | 154.709 | ug/l | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 352298 | 171.582 | ug/l | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 129218 | 160.216 | ug/l | 99 |
| 95) Naphthalene | 13.774 | 128 | 1285749 | 162.361 | ug/l | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 350134 | 164.515 | ug/l | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044653.D
Acq On : 15 Jan 2025 13:37
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Quant Time: Jan 30 04:56:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

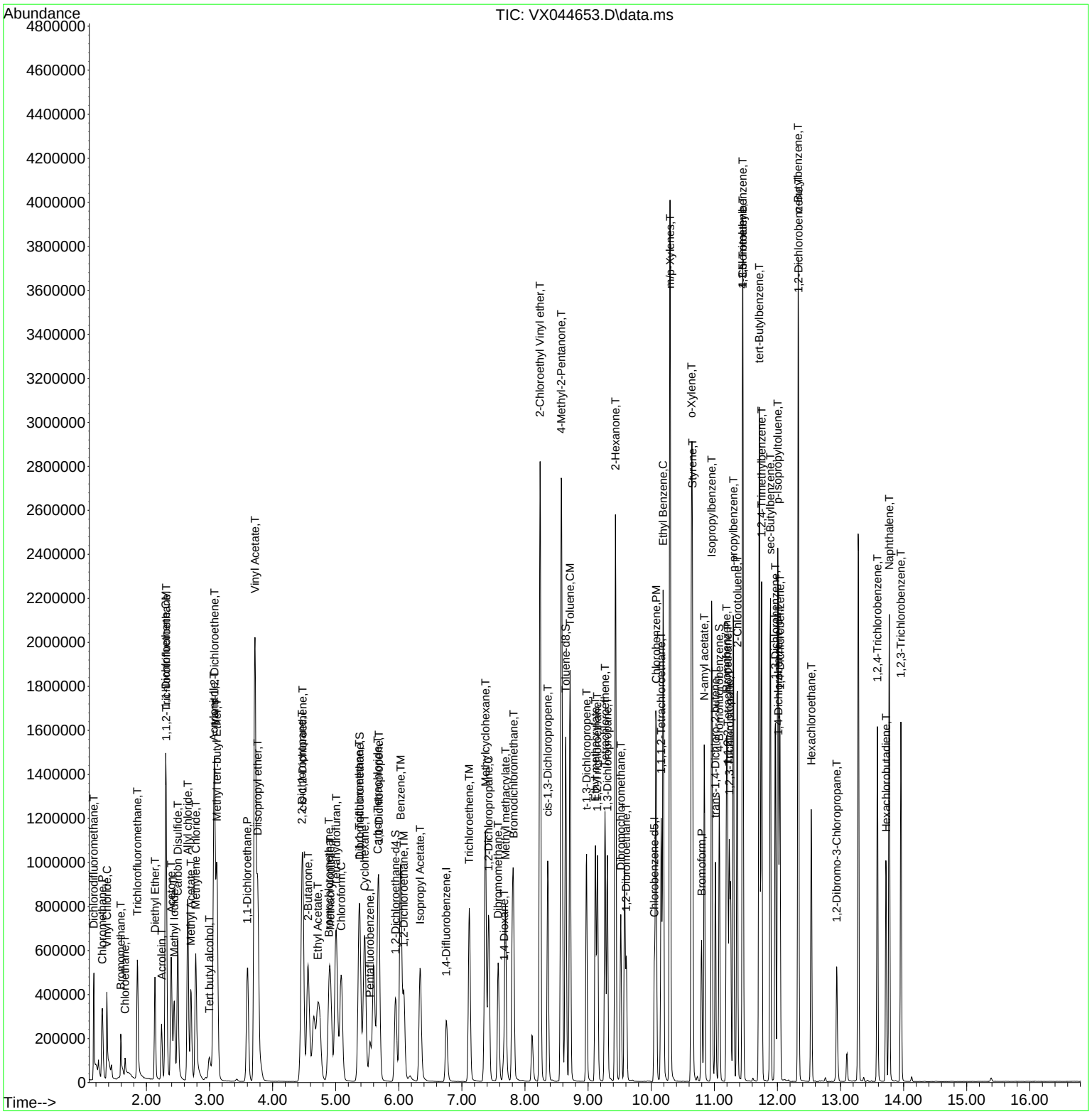
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

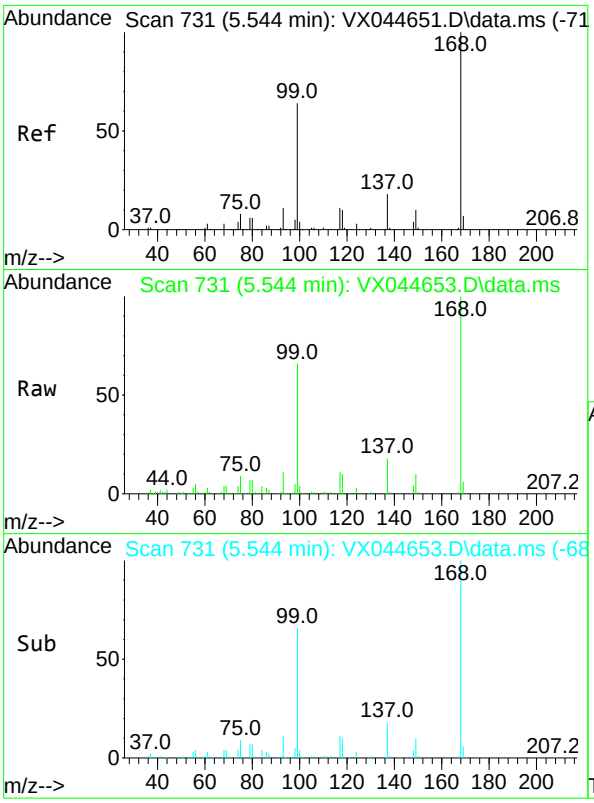
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044653.D
Acq On : 15 Jan 2025 13:37
Operator : JC/MD
Sample : VSTDICC150
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Quant Time: Jan 30 04:56:46 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



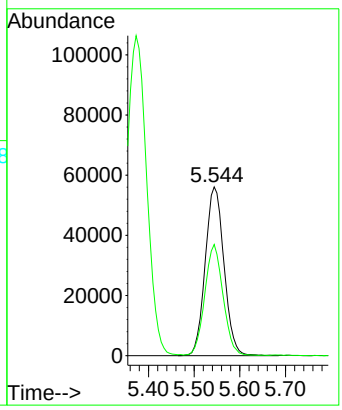


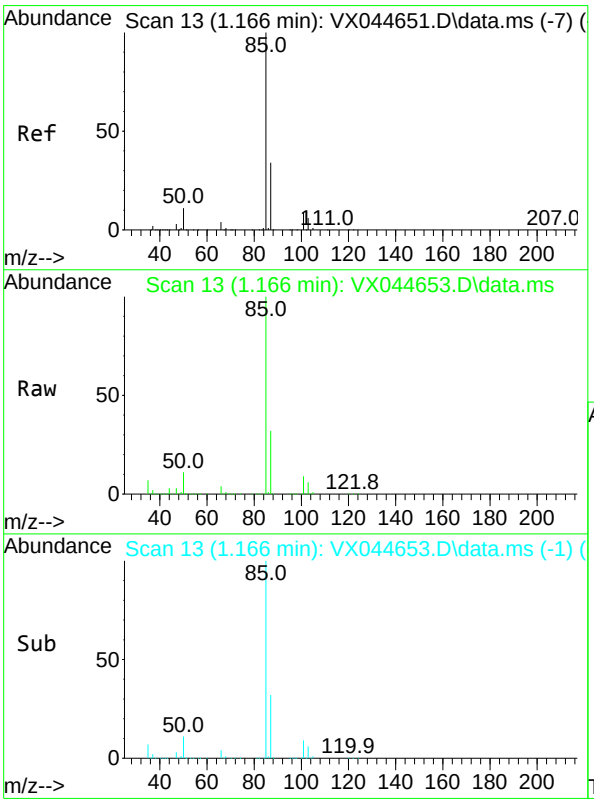

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:168 Resp: 160078

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.5 | 51.1 | 76.7 |

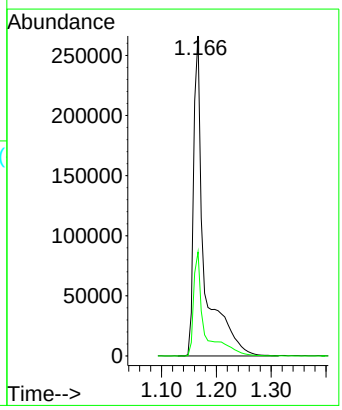


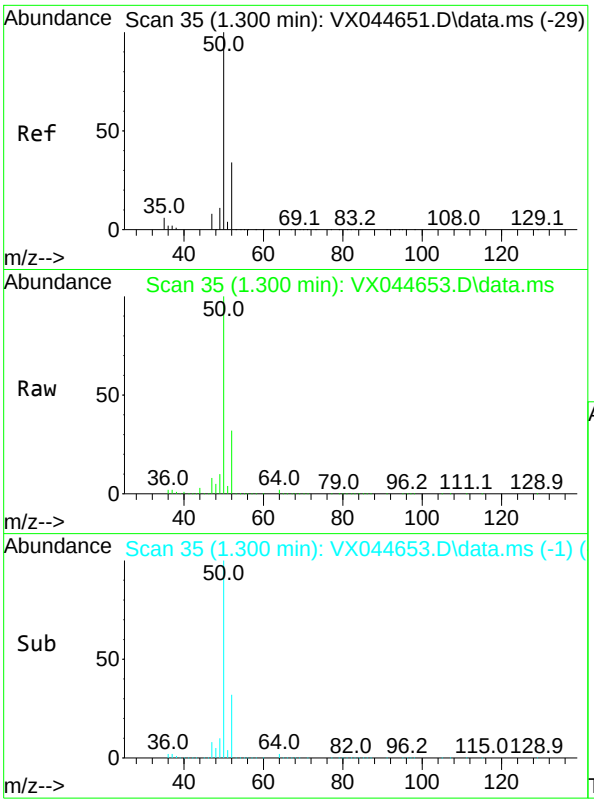




#2
Dichlorodifluoromethane
Concen: 170.185 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 85 Resp: 366593

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.5 | 16.8 | 50.4 |



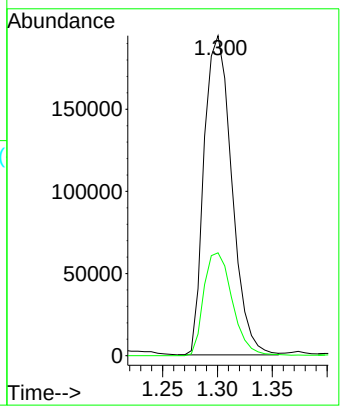


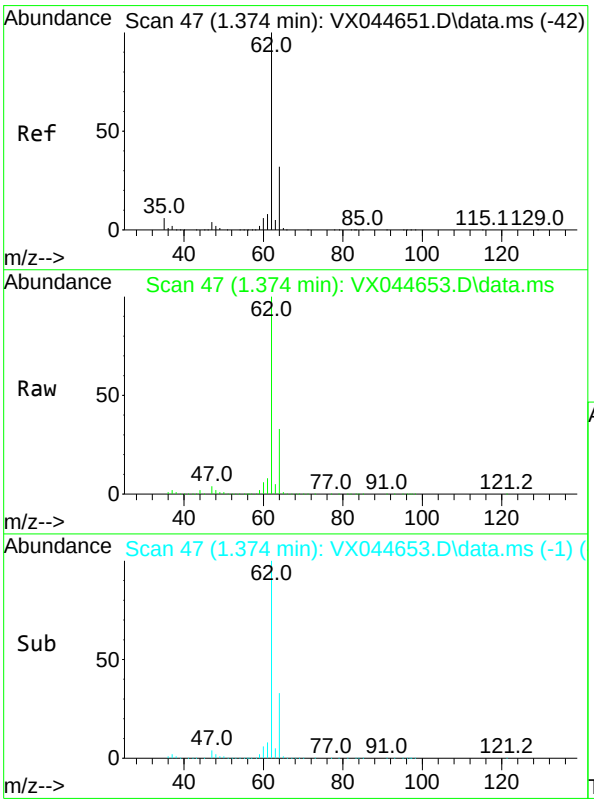

#3
Chloromethane
Concen: 146.909 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 50 Resp: 342210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.2 | 27.0 | 40.4 |

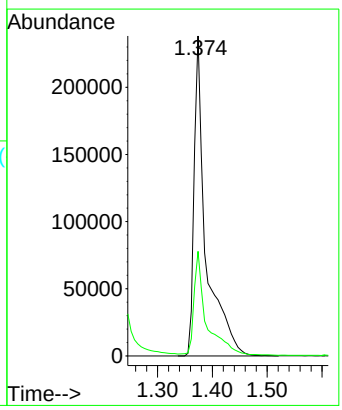


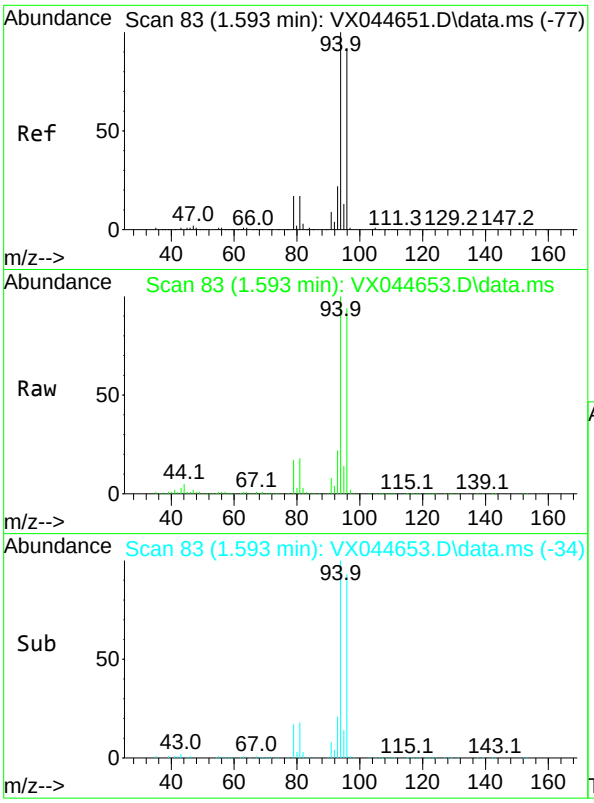




#4
Vinyl Chloride
Concen: 156.293 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 62 Resp: 359721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.5 | 26.6 | 39.8 |



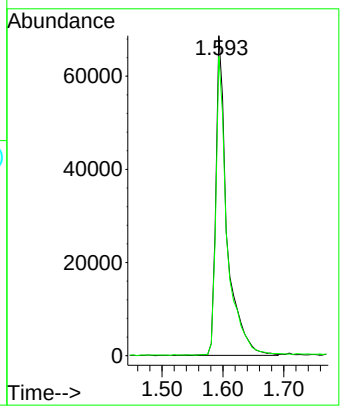


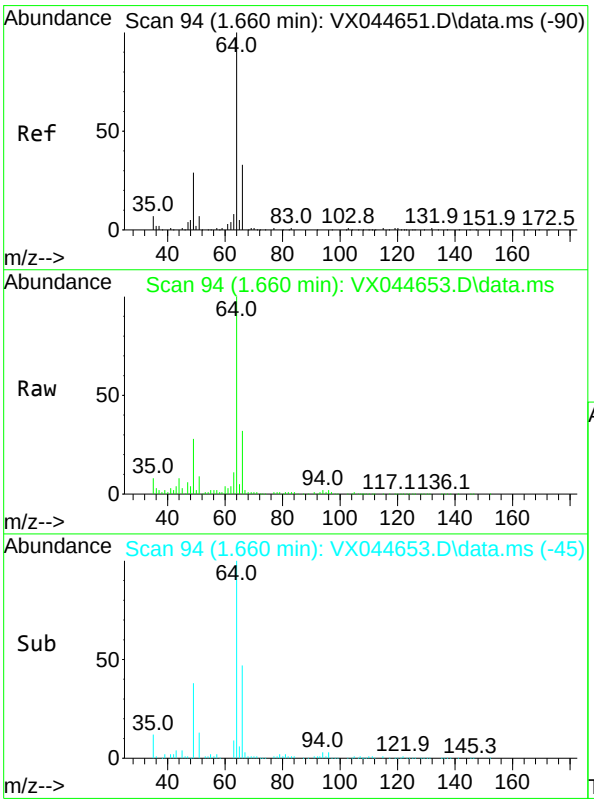

#5
Bromomethane
Concen: 159.609 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 94 Resp: 87716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.4 | 72.8 | 109.2 |

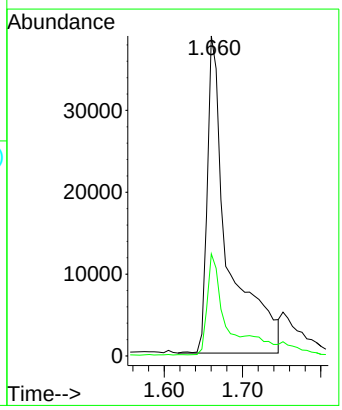


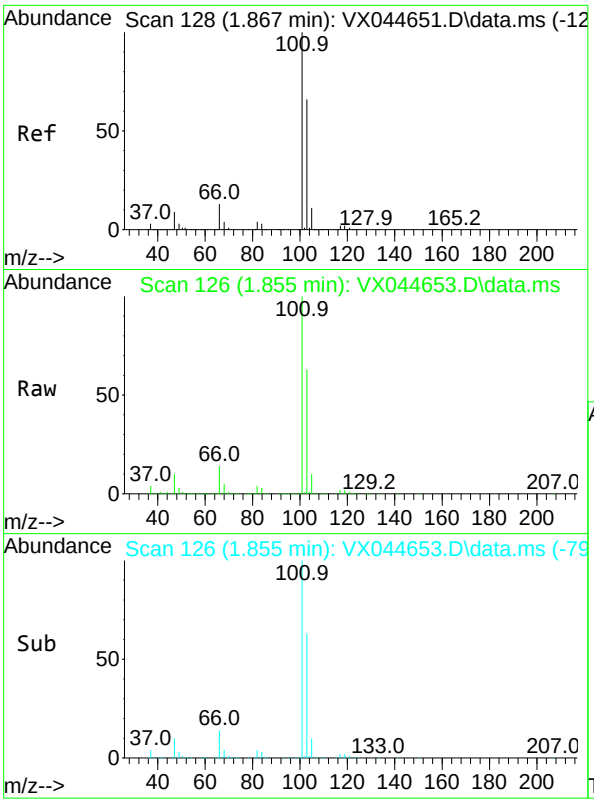




#6
Chloroethane
Concen: 169.800 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 64 Resp: 71666

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 31.8 | 26.6 | 39.8 |



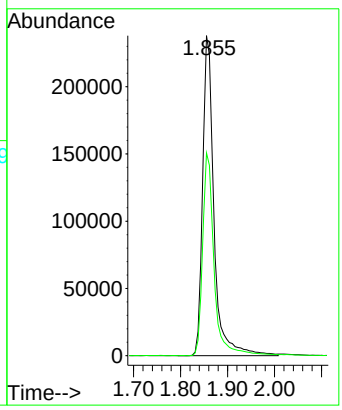


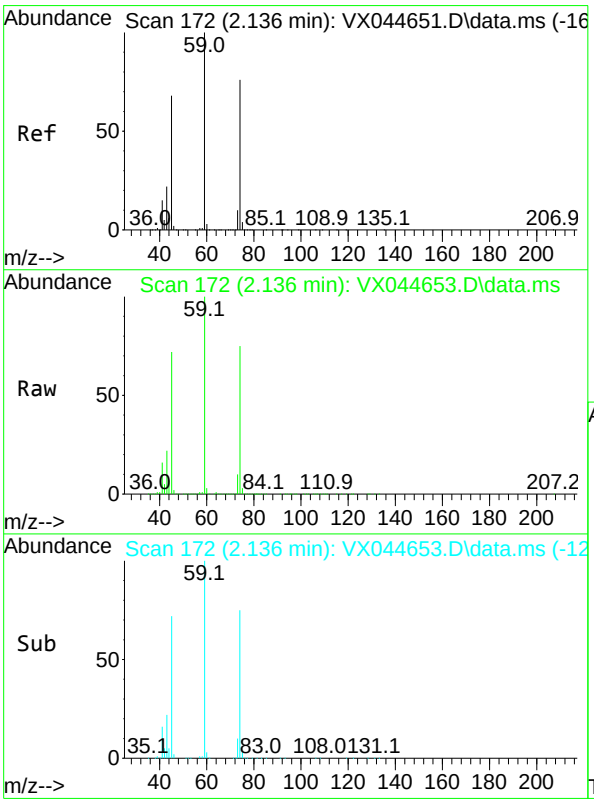

#7
Trichlorofluoromethane
Concen: 156.676 ug/l
RT: 1.855 min Scan# 1
Delta R.T. -0.012 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 398544

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.3 | 52.5 | 78.7 |

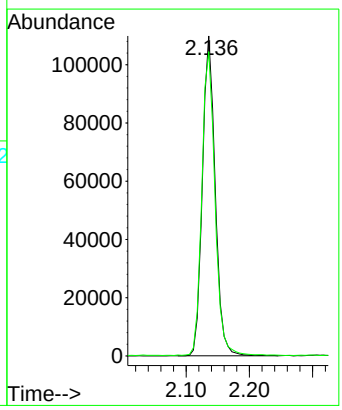


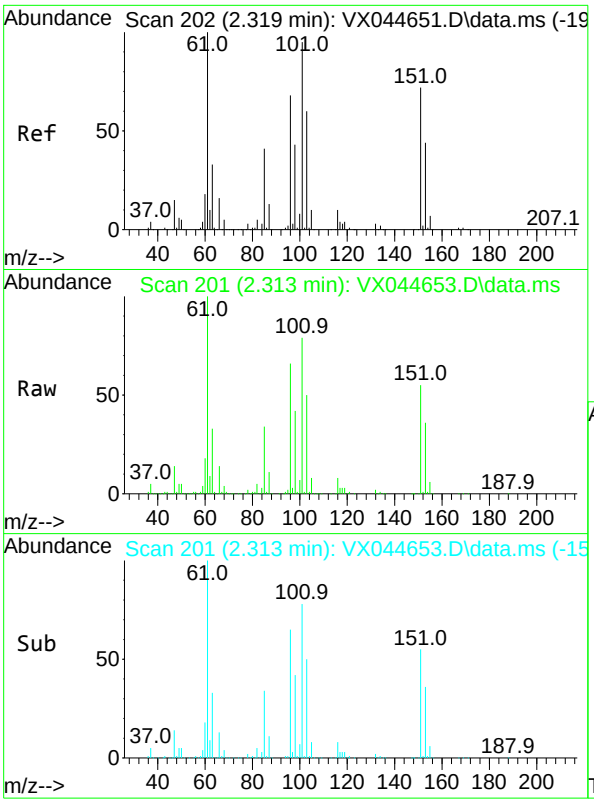




#8
Diethyl Ether
Concen: 150.299 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 74 Resp: 154291

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.3 | 47.1 | 141.3 |



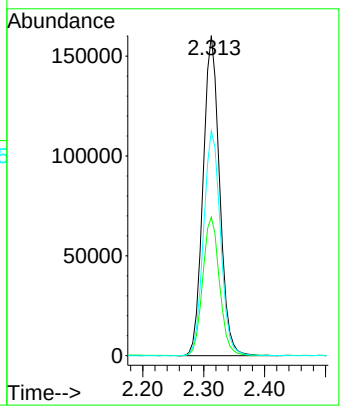


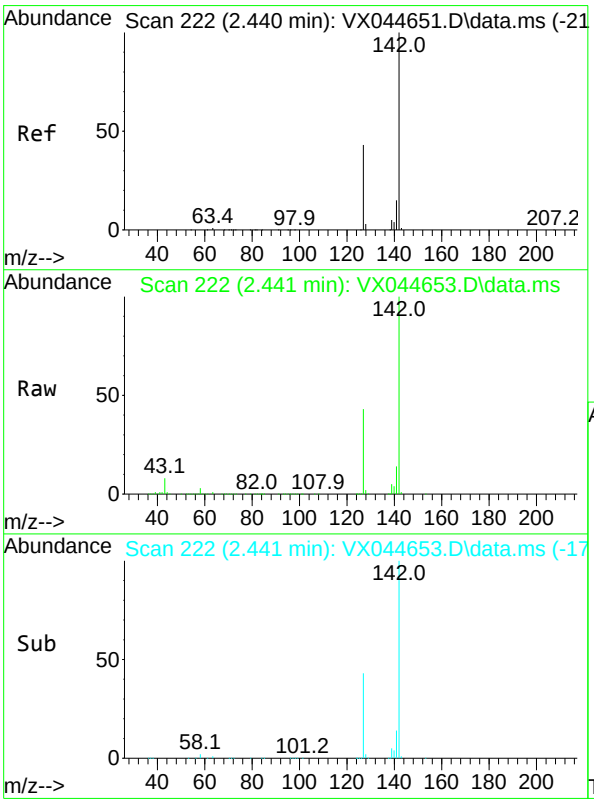

#9
1,1,2-Trichlorotrifluoroethane
Concen: 157.960 ug/l
RT: 2.313 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:101 Resp: 302048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.8 | 35.3 | 52.9 |
| 151 | 72.0 | 58.2 | 87.4 |

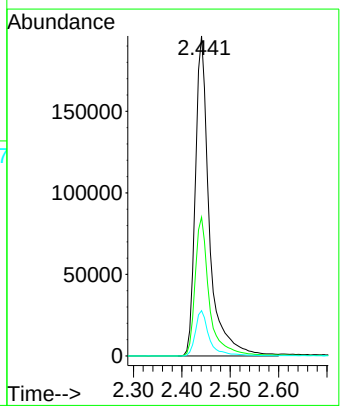


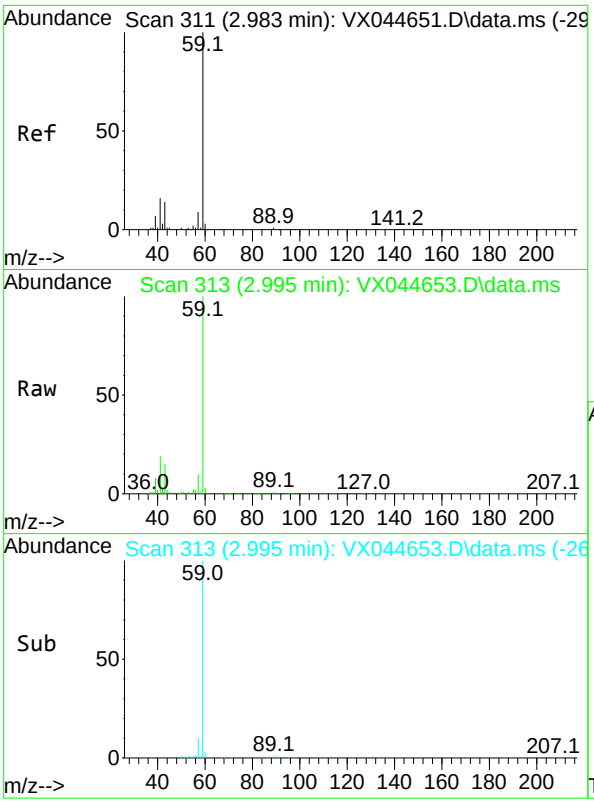




#10
Methyl Iodide
Concen: 151.126 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:142 Resp: 394541

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 44.4 | 35.0 | 52.4 |
| 141 | 14.2 | 11.7 | 17.5 |



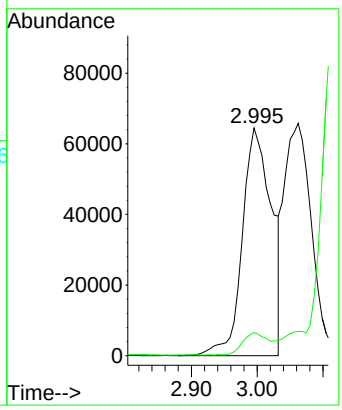


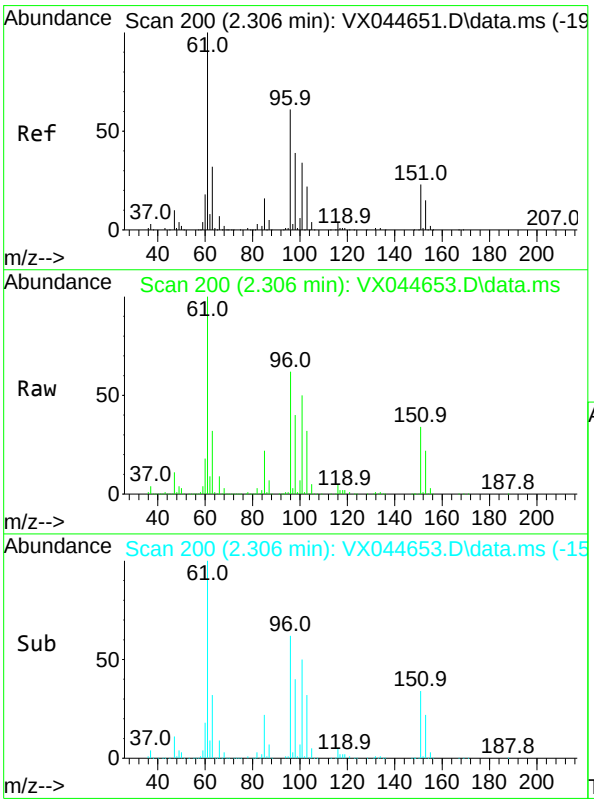

#11
Tert butyl alcohol
Concen: 368.414 ug/l
RT: 2.995 min Scan# 3
Delta R.T. 0.012 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 59 Resp: 198451

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 8.8 | 3.9 | 5.9# |

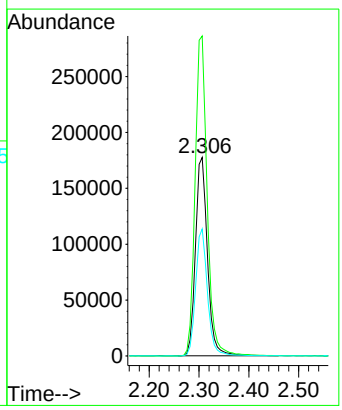


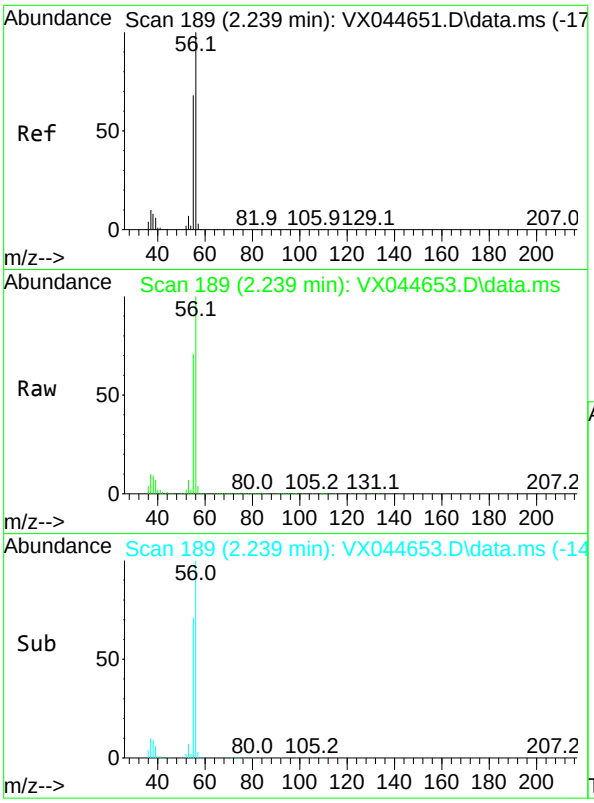




#12
1,1-Dichloroethene
Concen: 158.449 ug/l
RT: 2.306 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 96 Resp: 296987

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.3 | 131.1 | 196.7 |
| 98 | 64.0 | 51.2 | 76.8 |



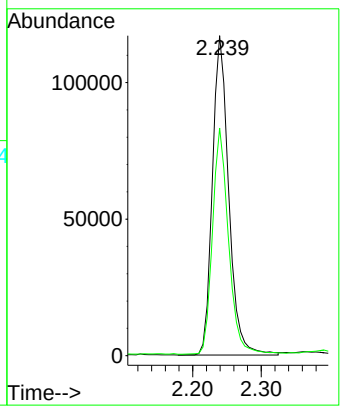


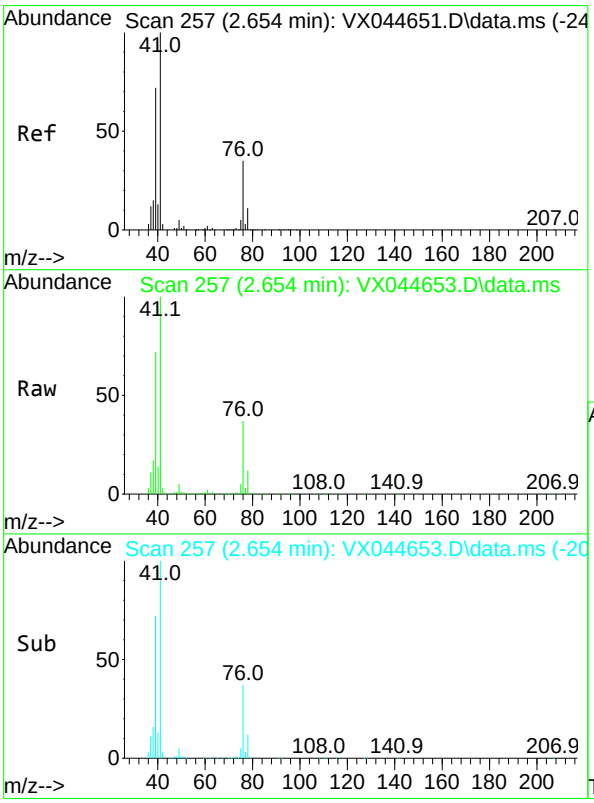

#13
Acrolein
Concen: 762.485 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 56 Resp: 193280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.9 | 55.1 | 82.7 |

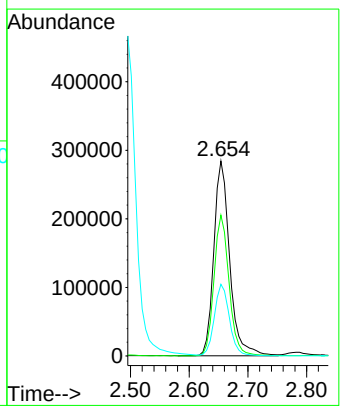


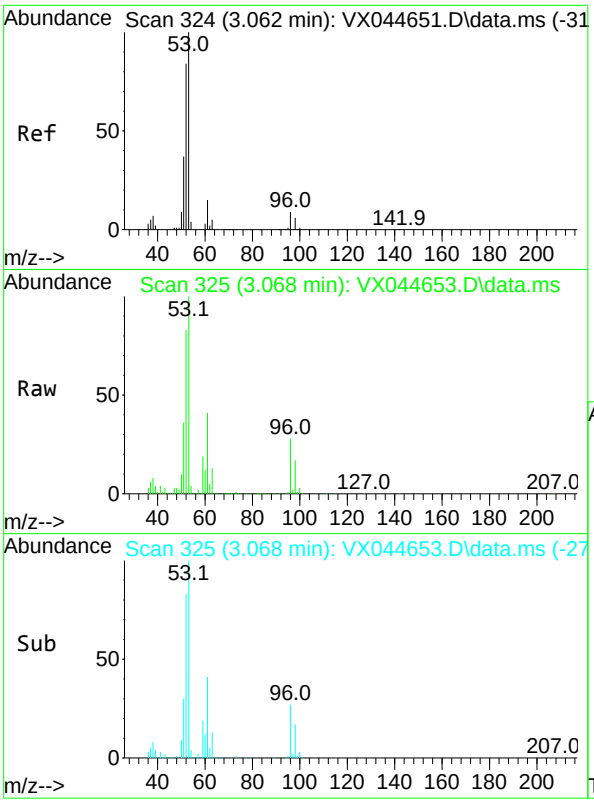




#14
Allyl chloride
Concen: 146.366 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 41 Resp: 534150

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.7 | 54.9 | 82.3 |
| 76 | 34.9 | 28.4 | 42.6 |



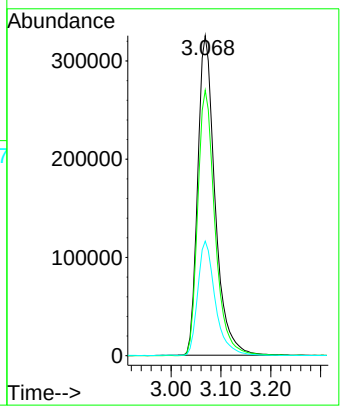


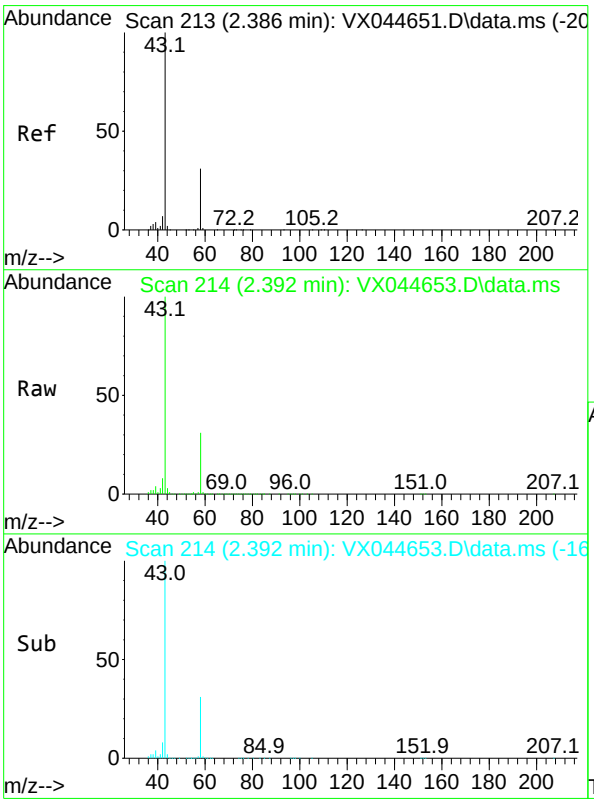

#15
Acrylonitrile
Concen: 742.040 ug/l
RT: 3.068 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 53 Resp: 783976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.1 | 66.0 | 99.0 |
| 51 | 36.2 | 28.9 | 43.3 |

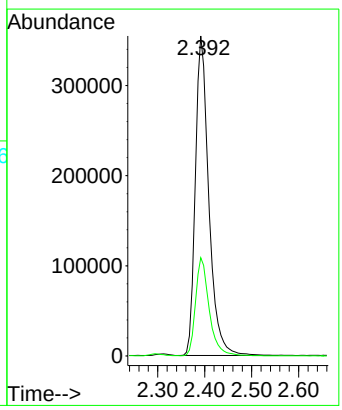


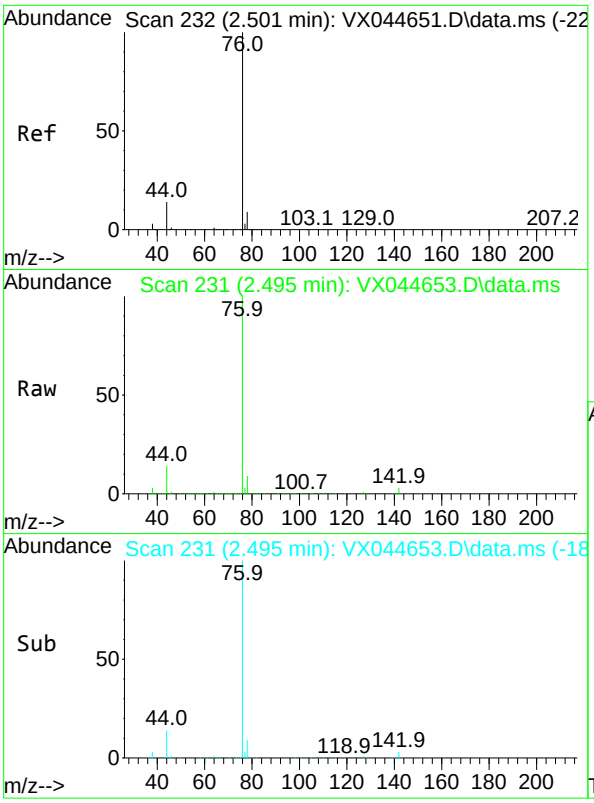




#16
Acetone
Concen: 740.713 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 708100

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 30.7 | 24.6 | 37.0 |



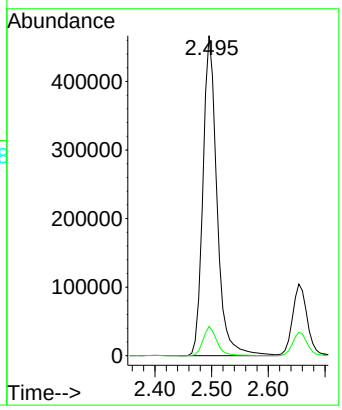


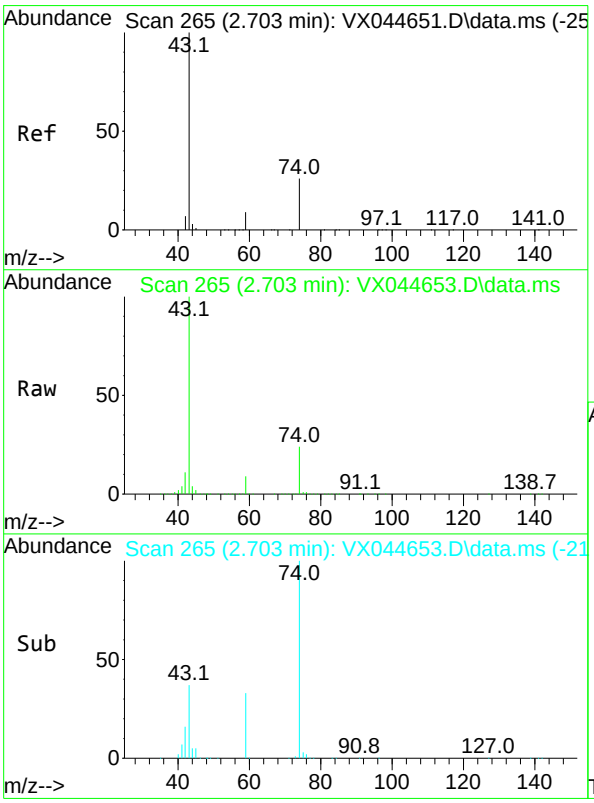

#17
Carbon Disulfide
Concen: 157.079 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 76 Resp: 803379

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.1 | 10.7 |

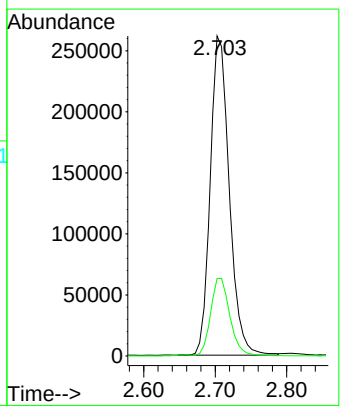


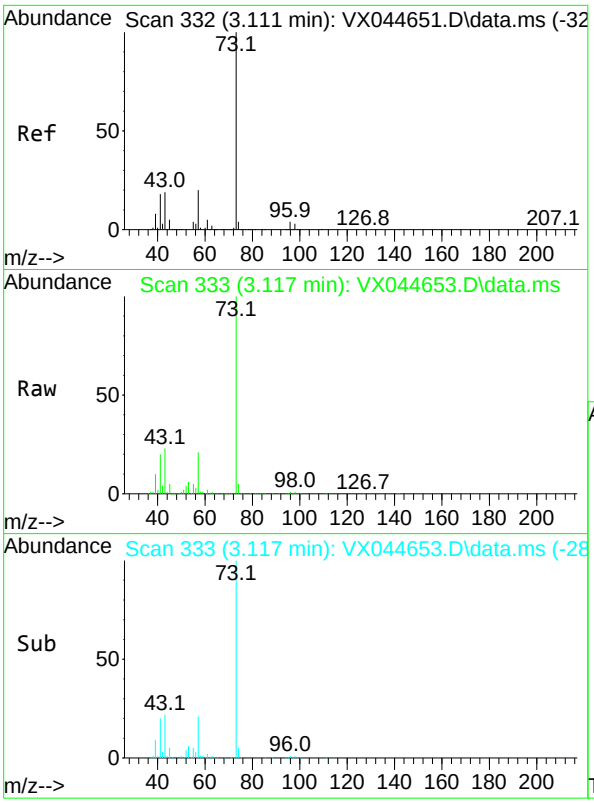




#18
Methyl Acetate
Concen: 163.814 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 483139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.7 | 19.8 | 29.8 |



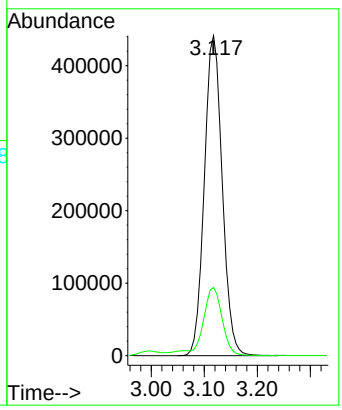


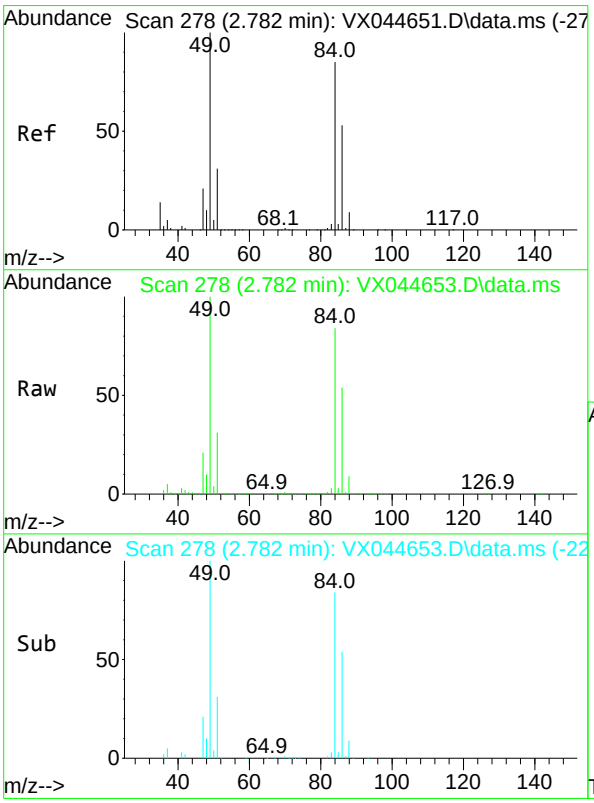

#19
Methyl tert-butyl Ether
Concen: 152.410 ug/l
RT: 3.117 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 73 Resp: 1034710

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.2 | 17.4 | 26.0 |

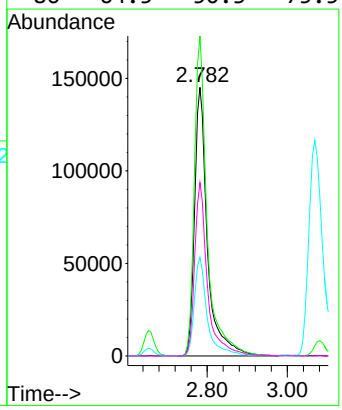


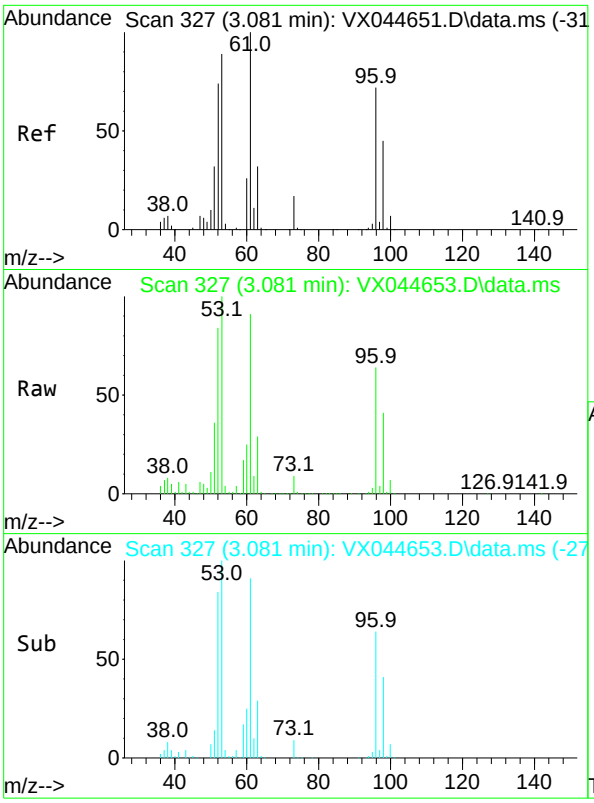




#20
Methylene Chloride
Concen: 146.417 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 84 Resp: 325957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.1 | 94.2 | 141.4 |
| 51 | 36.7 | 28.8 | 43.2 |
| 86 | 64.5 | 50.3 | 75.5 |



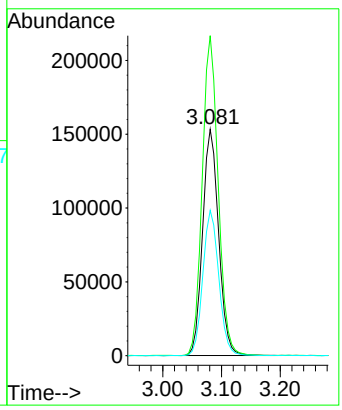


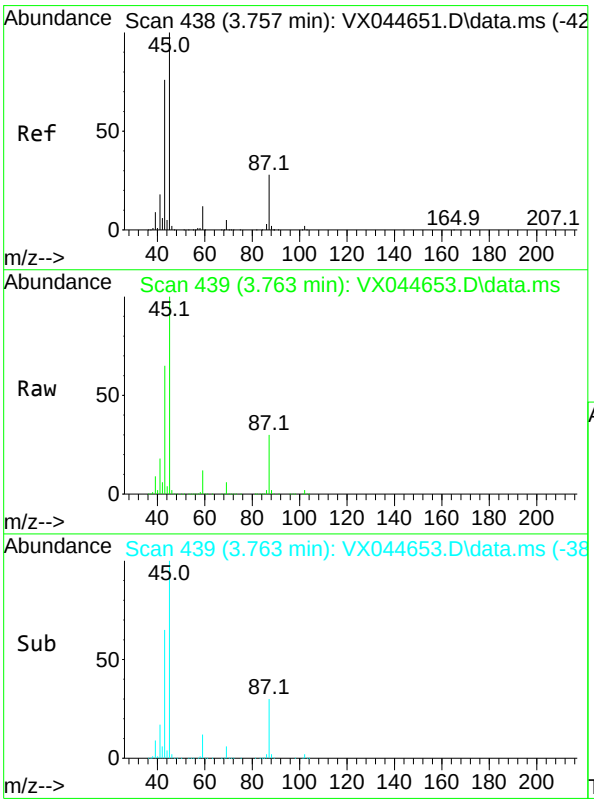

#21
trans-1,2-Dichloroethene
Concen: 148.536 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 96 Resp: 290671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.3 | 111.0 | 166.6 |
| 98 | 64.2 | 50.2 | 75.2 |

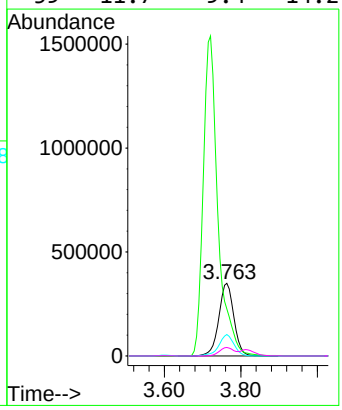


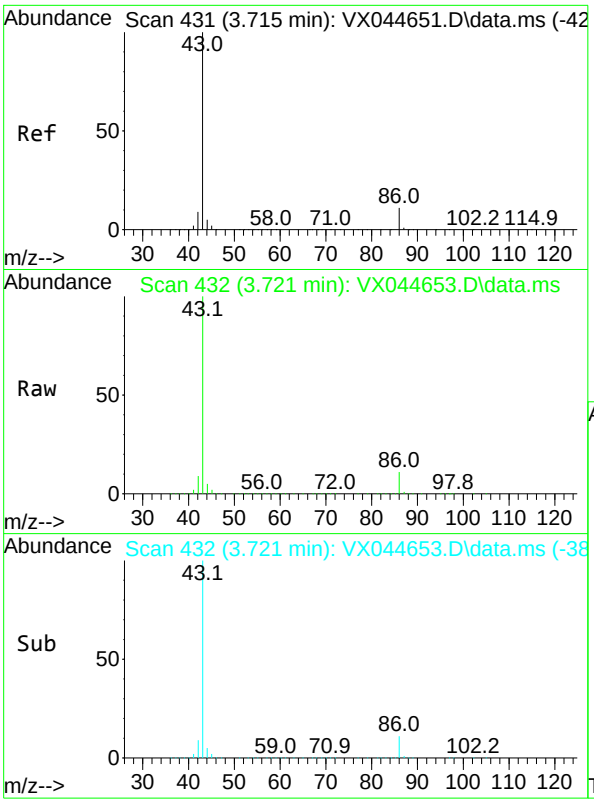




#22
Diisopropyl ether
Concen: 150.864 ug/l
RT: 3.763 min Scan# 439
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 45 Resp: 957045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 64.8 | 61.0 | 91.6 |
| 87 | 29.6 | 22.7 | 34.1 |
| 59 | 11.7 | 9.4 | 14.2 |



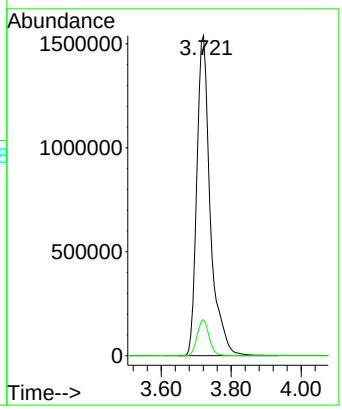


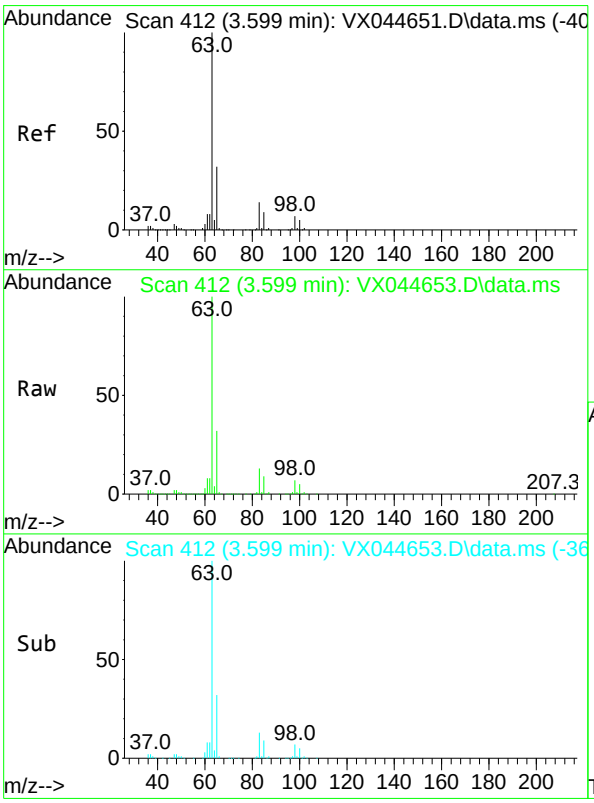

#23
Vinyl Acetate
Concen: 738.701 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 4101581

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.3 | 8.9 | 13.3 |

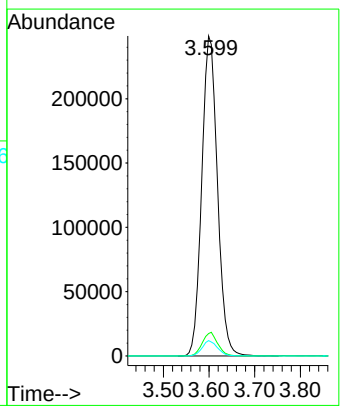


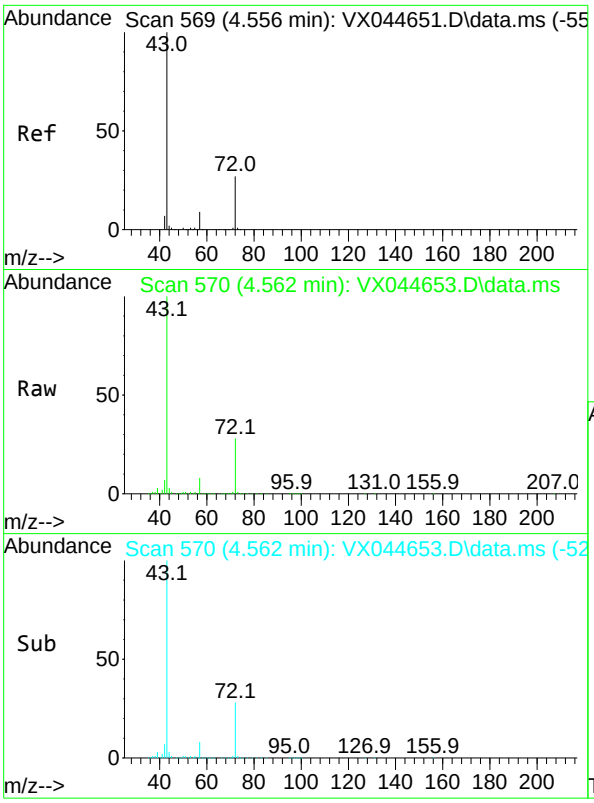




#24
1,1-Dichloroethane
Concen: 158.014 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 63 Resp: 594429

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.0 | 3.6 | 10.9 |
| 100 | 4.8 | 2.5 | 7.5 |



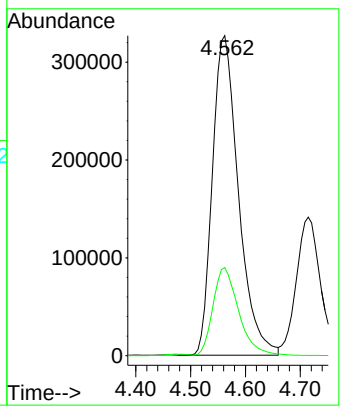


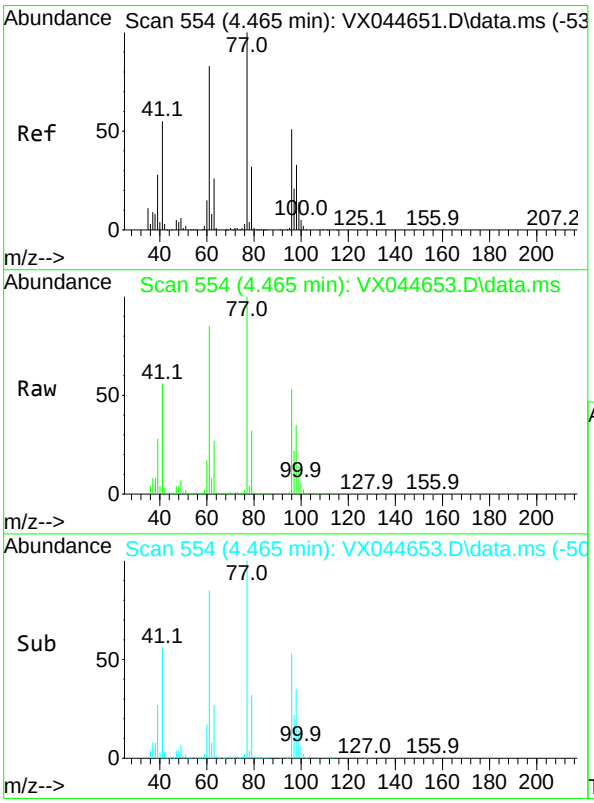

#25
2-Butanone
Concen: 759.640 ug/l
RT: 4.562 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 1079716

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.1 | 21.7 | 32.5 |

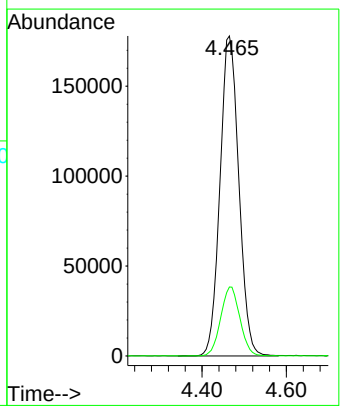


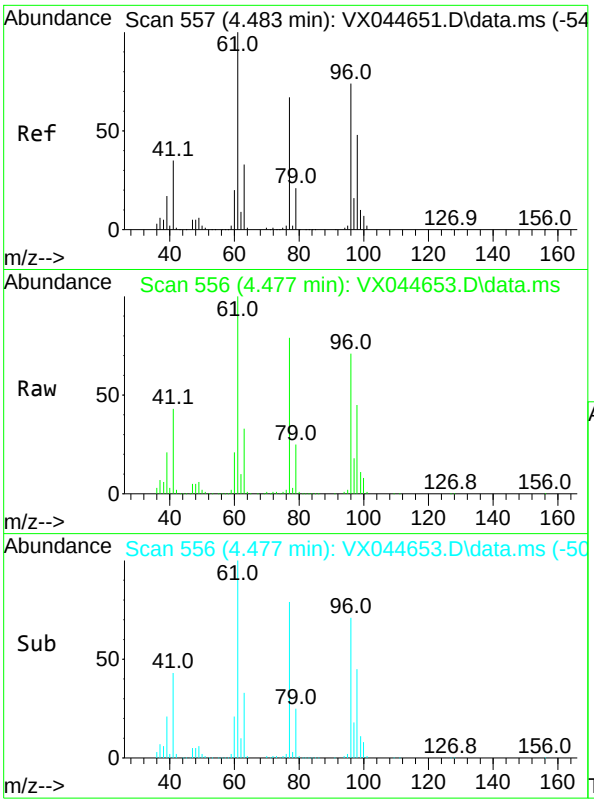




#26
2,2-Dichloropropane
Concen: 150.882 ug/l
RT: 4.465 min Scan# 554
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 77 Resp: 550106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.0 | 10.9 | 32.6 |



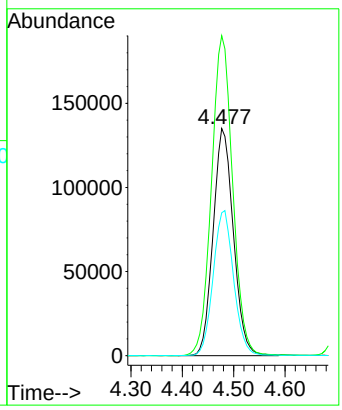


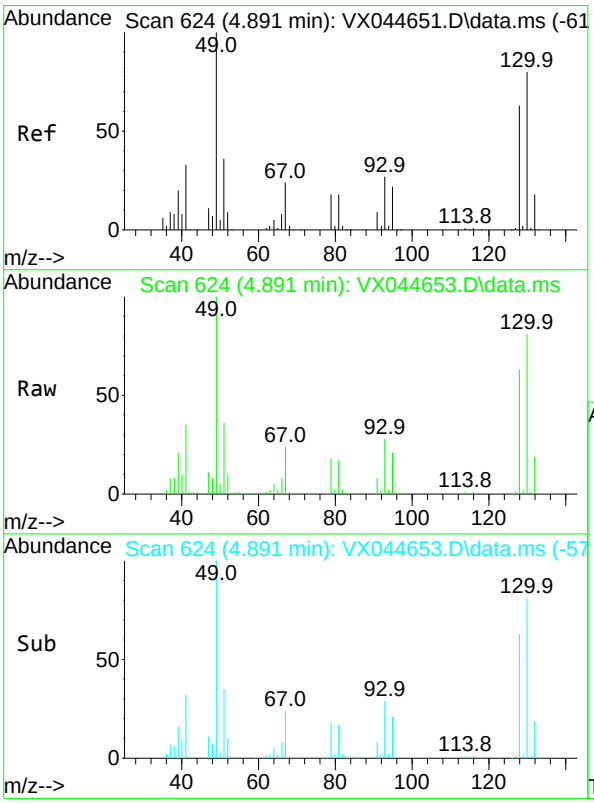

#27
cis-1,2-Dichloroethene
Concen: 150.386 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 96 Resp: 370177

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 147.0 | 0.0 | 296.0 |
| 98 | 64.4 | 0.0 | 130.0 |

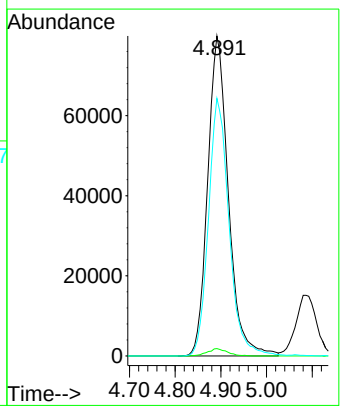


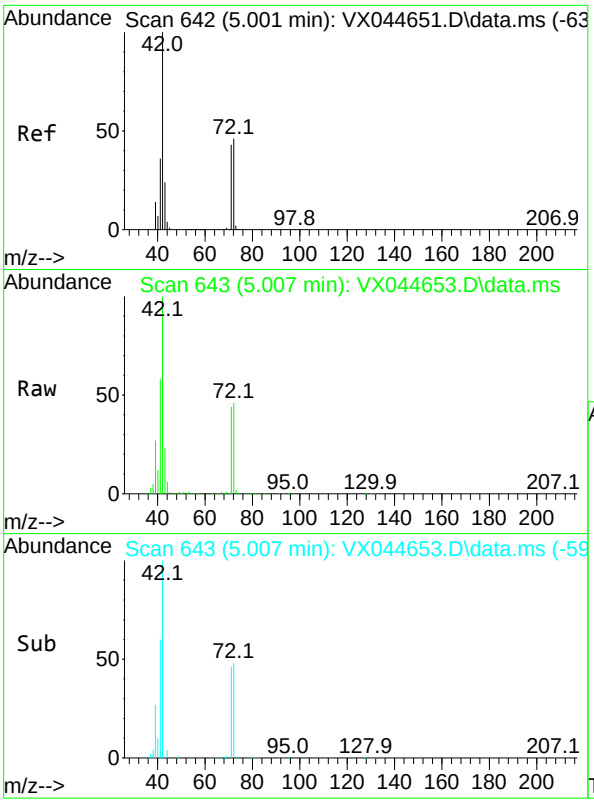




#28
Bromochloromethane
Concen: 142.922 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 49 Resp: 251238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.4 |
| 130 | 80.2 | 63.4 | 95.2 |



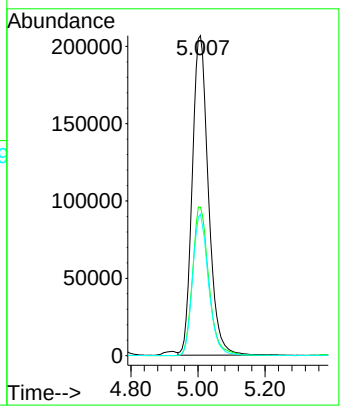


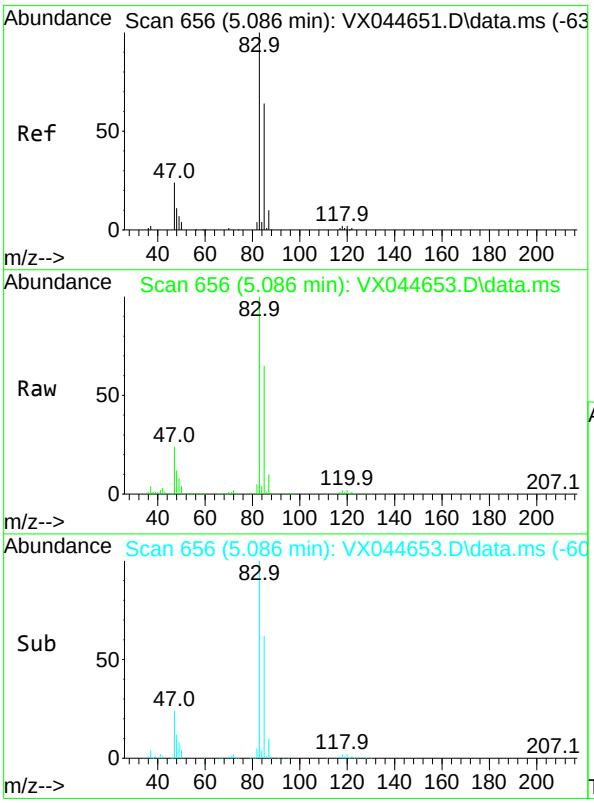

#29
Tetrahydrofuran
Concen: 752.528 ug/l
RT: 5.007 min Scan# 64
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 42 Resp: 689928

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 47.0 | 38.2 | 57.4 |
| 71 | 43.6 | 35.3 | 52.9 |

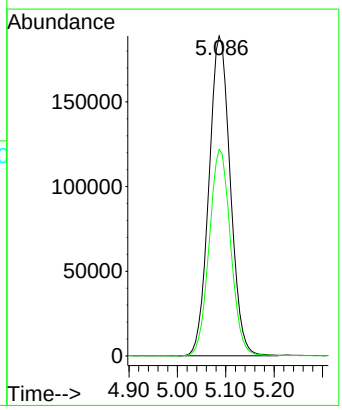


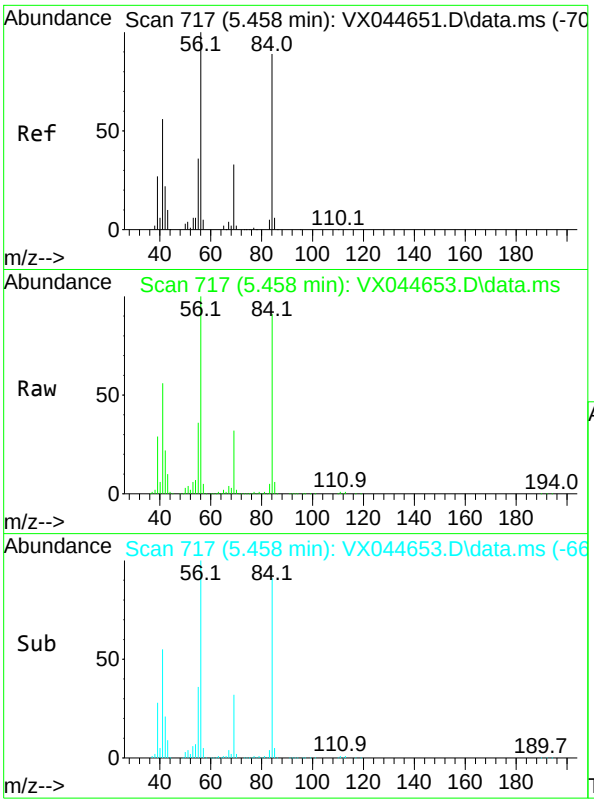




#30
Chloroform
Concen: 152.595 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 83 Resp: 579322

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.5 | 51.2 | 76.8 |



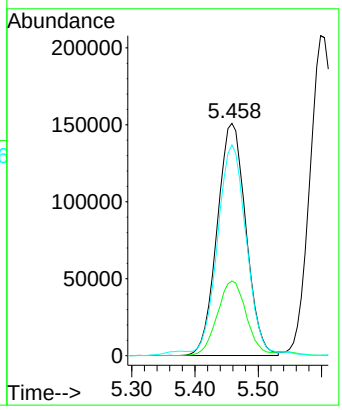


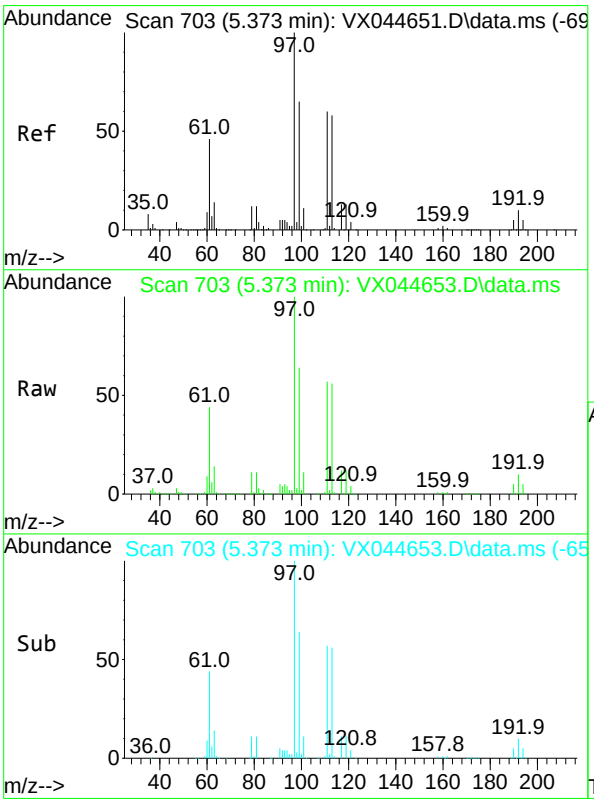

#31
Cyclohexane
Concen: 156.483 ug/l
RT: 5.458 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 56 Resp: 476106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.1 | 26.8 | 40.2 |
| 84 | 89.3 | 71.0 | 106.4 |

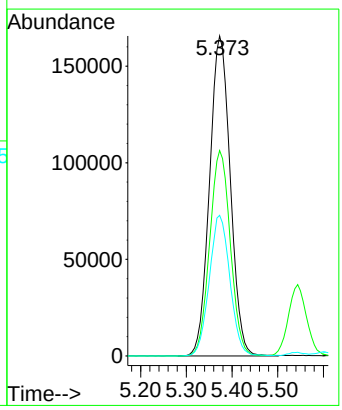


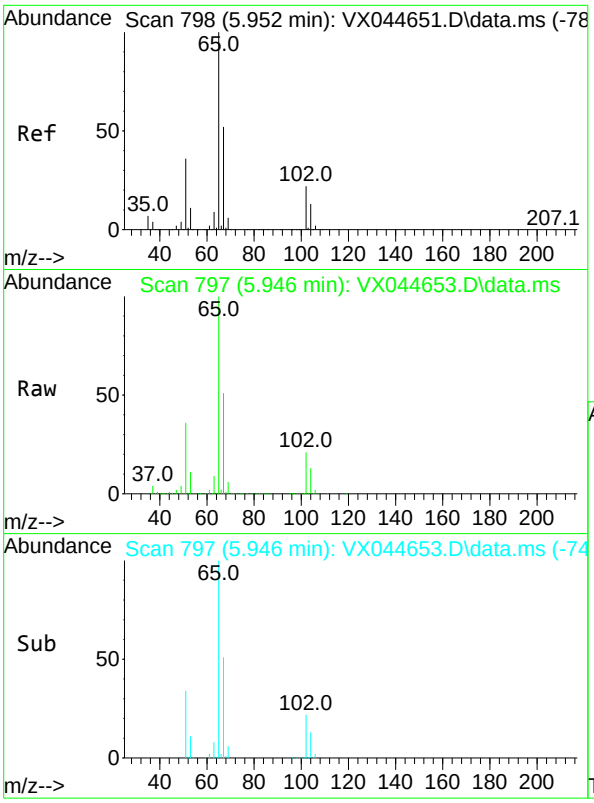




#32
1,1,1-Trichloroethane
Concen: 149.582 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 97 Resp: 522062

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.1 | 51.6 | 77.4 |
| 61 | 43.9 | 35.6 | 53.4 |



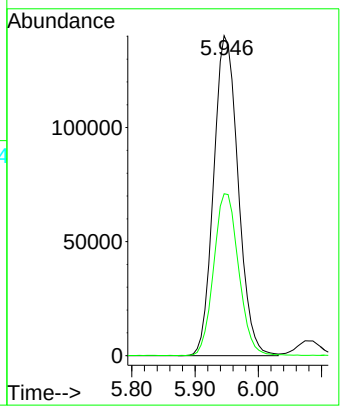


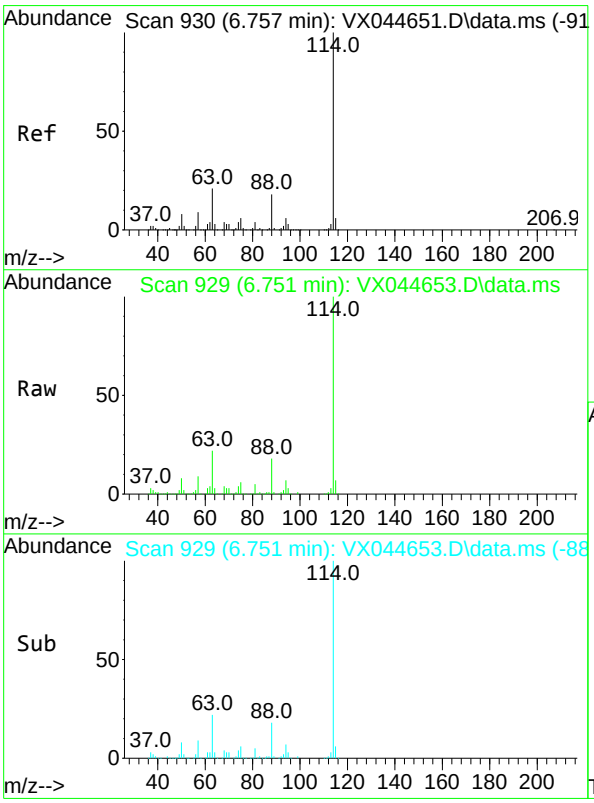

#33
1,2-Dichloroethane-d4
Concen: 156.114 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 65 Resp: 377212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 51.4 | 0.0 | 103.4 |

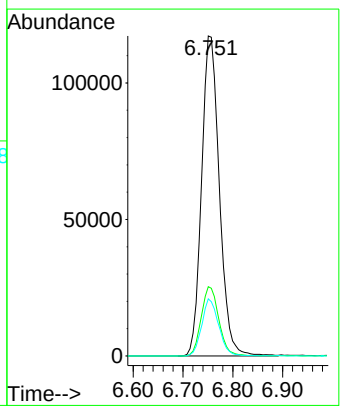


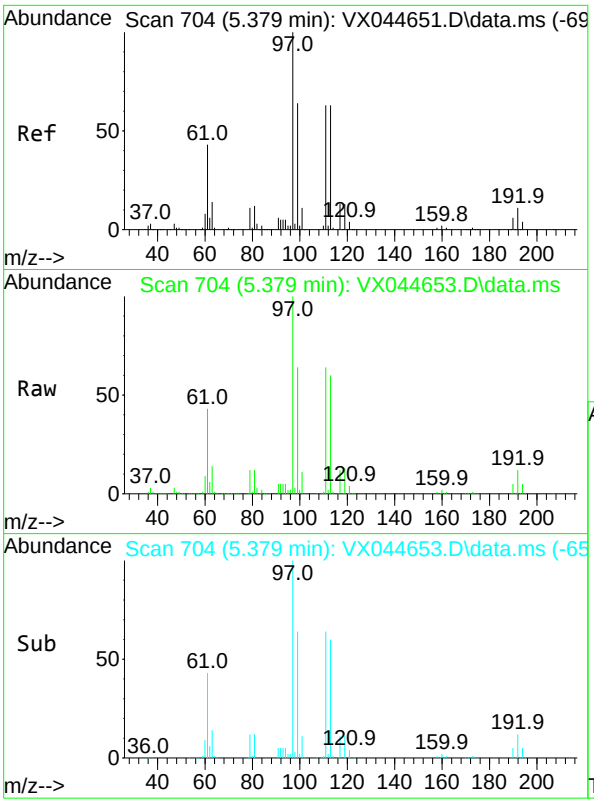




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:114 Resp: 290219

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.6 | 0.0 | 43.0 |
| 88 | 17.8 | 0.0 | 35.4 |



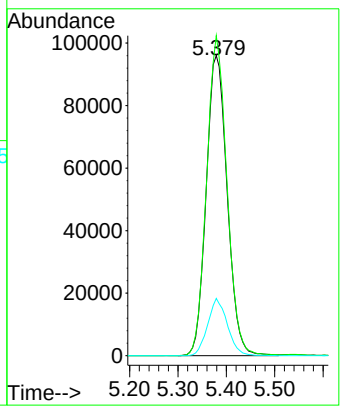


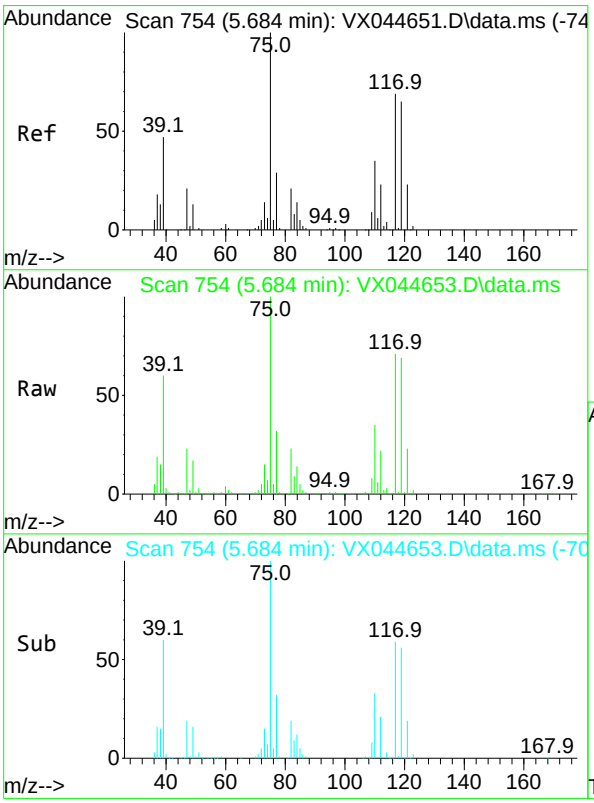

#35
Dibromofluoromethane
Concen: 157.288 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:113 Resp: 289994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.2 | 81.6 | 122.4 |
| 192 | 17.9 | 14.4 | 21.6 |

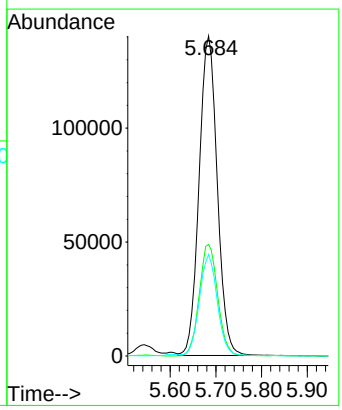


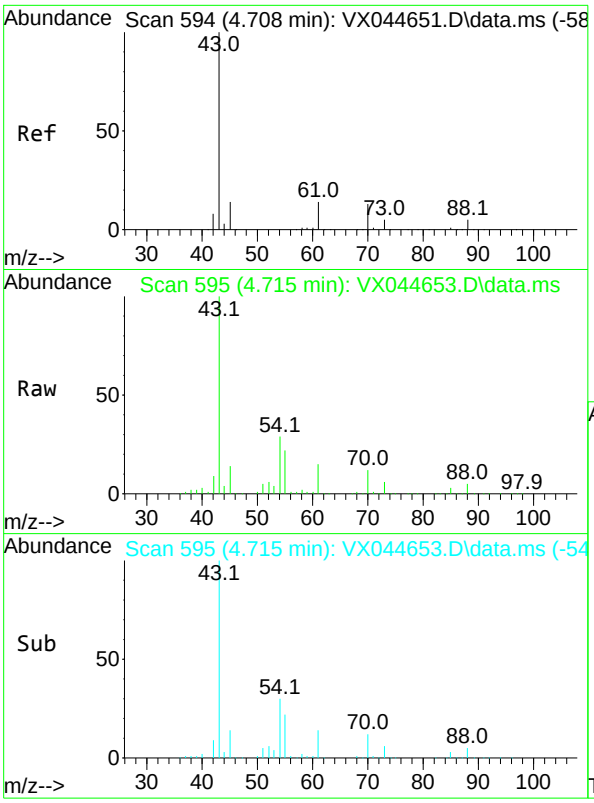




#36
1,1-Dichloropropene
Concen: 150.517 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 75 Resp: 386304

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.5 | 17.9 | 53.8 |
| 77 | 31.1 | 24.5 | 36.7 |



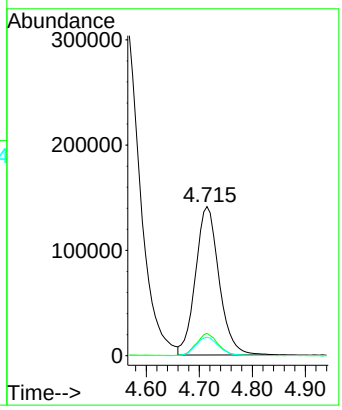


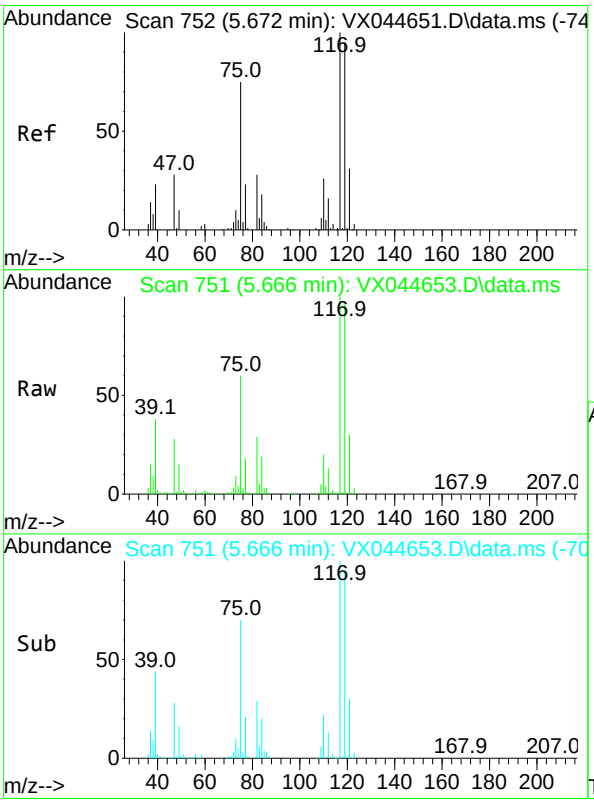

#37
Ethyl Acetate
Concen: 158.764 ug/l
RT: 4.715 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 433924

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.0 | 10.9 | 16.3 |
| 70 | 12.3 | 10.1 | 15.1 |

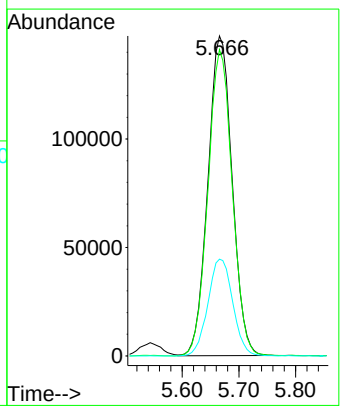


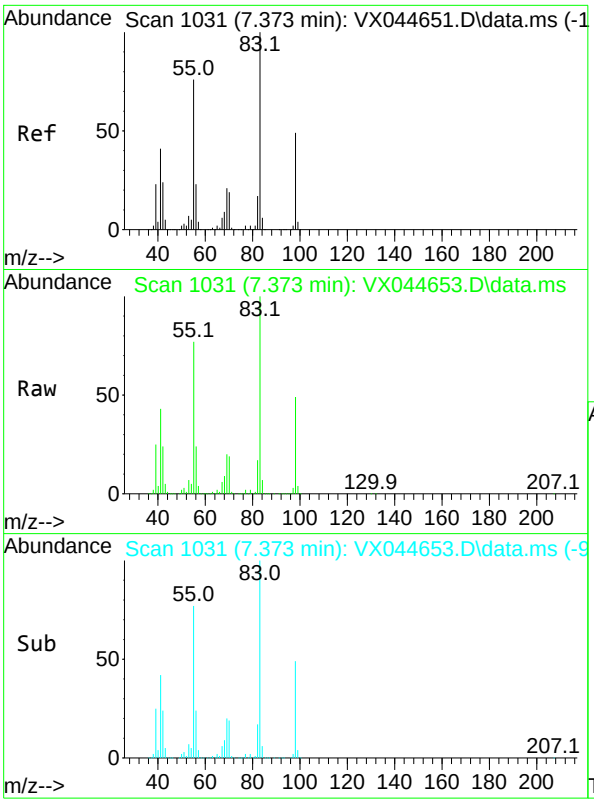




#38
Carbon Tetrachloride
Concen: 151.528 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:117 Resp: 437442

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 95.8 | 76.0 | 114.0 |
| 121 | 30.3 | 24.6 | 36.8 |



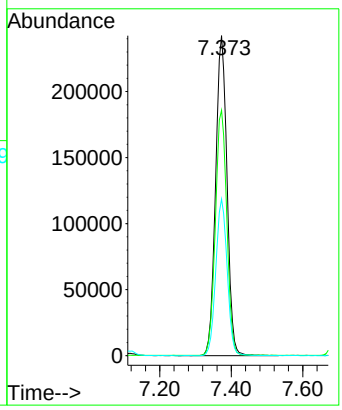


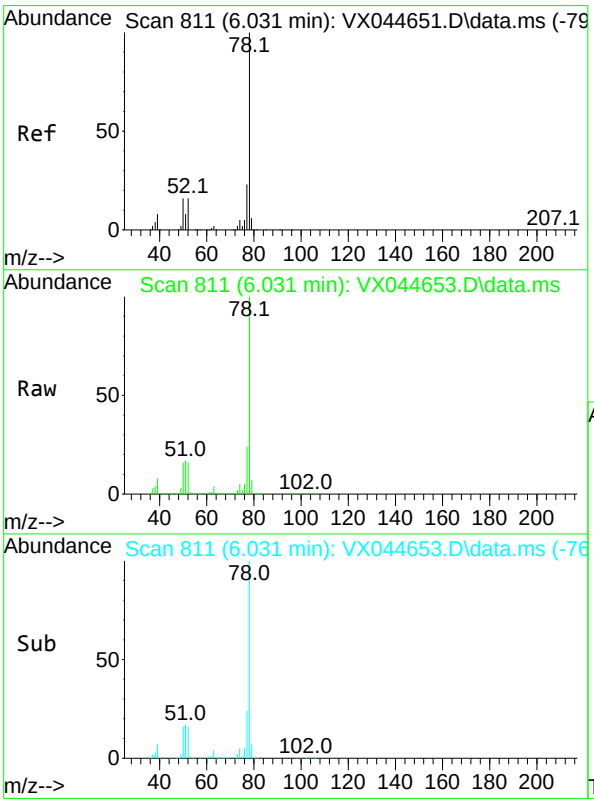

#39
Methylcyclohexane
Concen: 157.021 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 534976

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.6 | 60.5 | 90.7 |
| 98 | 49.0 | 39.0 | 58.4 |

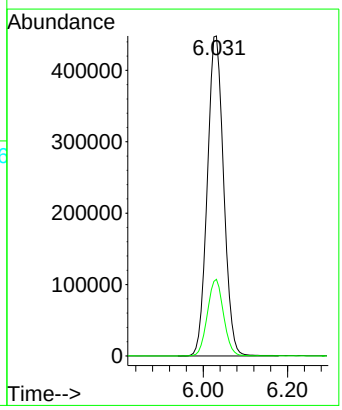


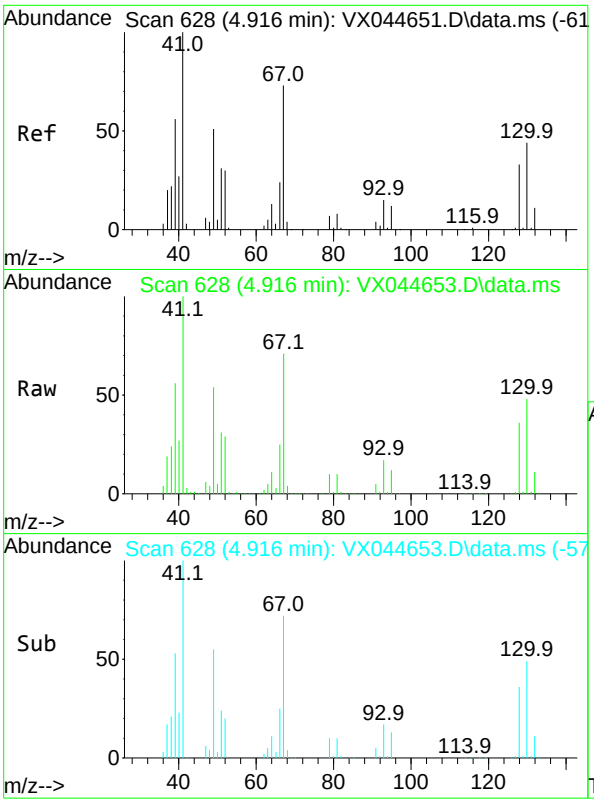




#40
Benzene
Concen: 151.523 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 78 Resp: 1205057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.0 | 18.7 | 28.1 |



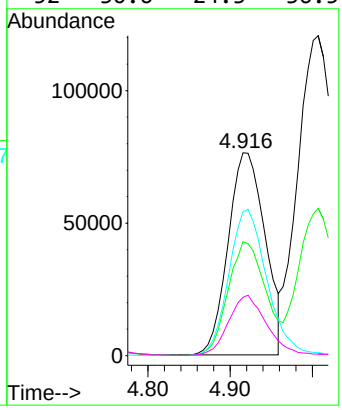


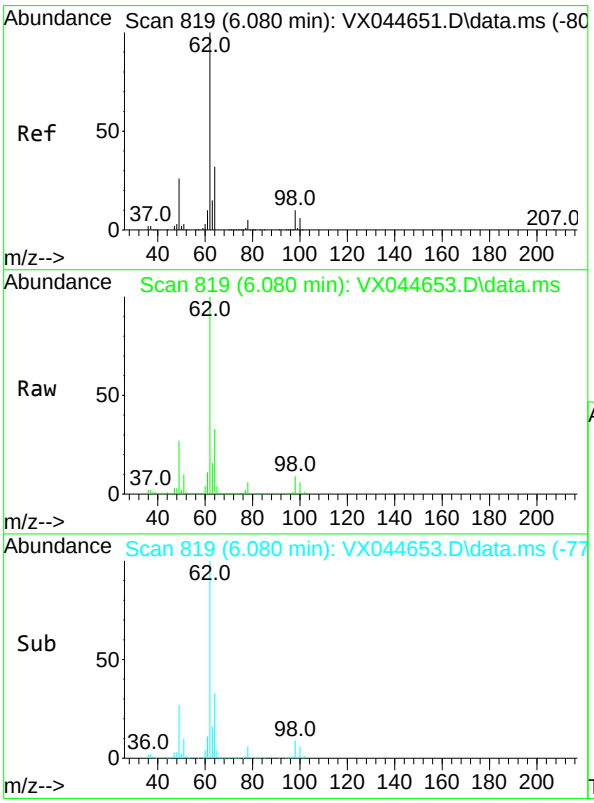

#41
Methacrylonitrile
Concen: 149.816 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 41 Resp: 238601

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.9 | 44.4 | 66.6 |
| 67 | 74.8 | 60.6 | 90.8 |
| 52 | 30.6 | 24.3 | 36.5 |

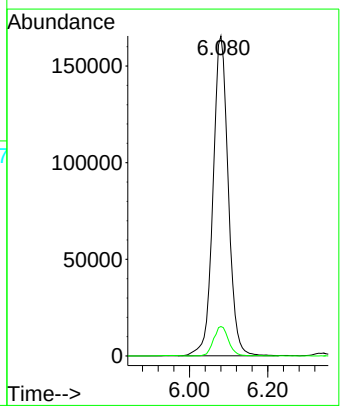


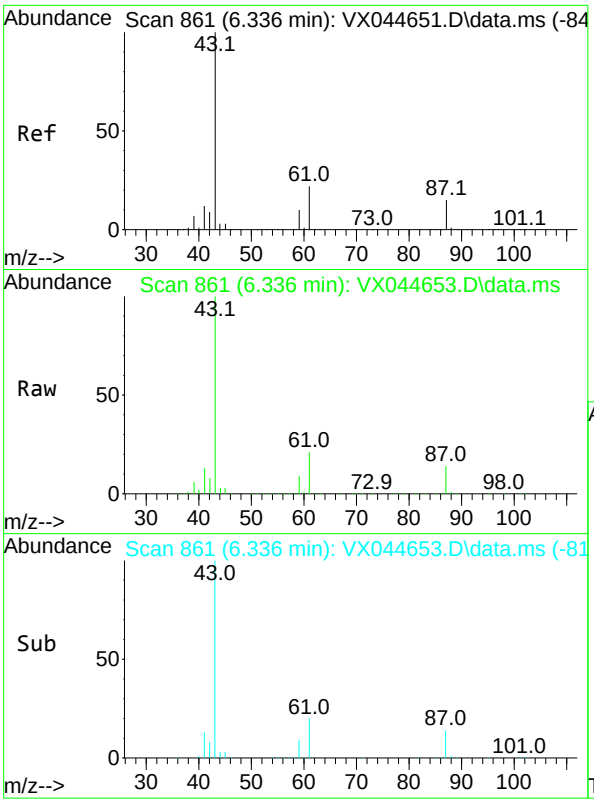




#42
1,2-Dichloroethane
Concen: 153.782 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 62 Resp: 446380

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.1 | 0.0 | 19.4 |



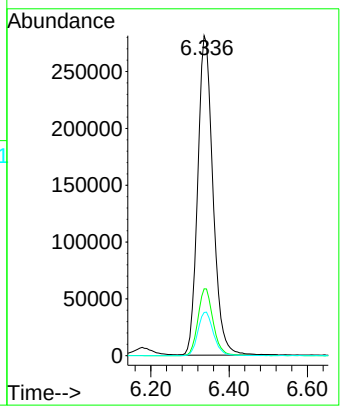


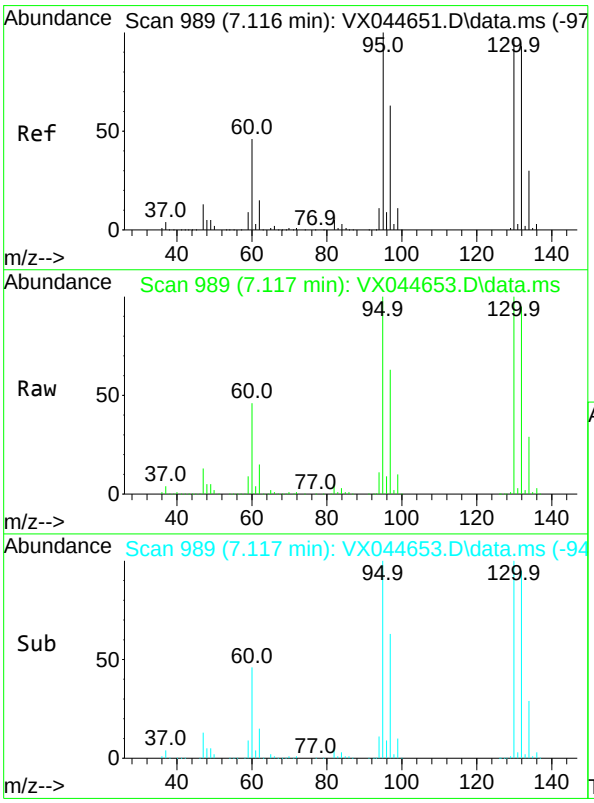

#43
Isopropyl Acetate
Concen: 151.528 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 761866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.8 | 16.6 | 24.8 |
| 87 | 14.0 | 11.0 | 16.6 |

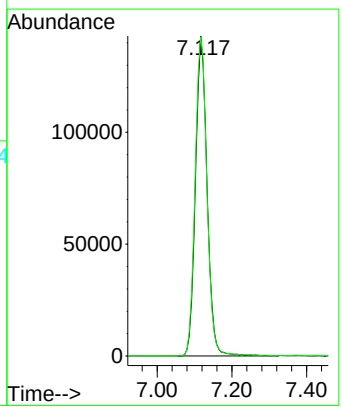


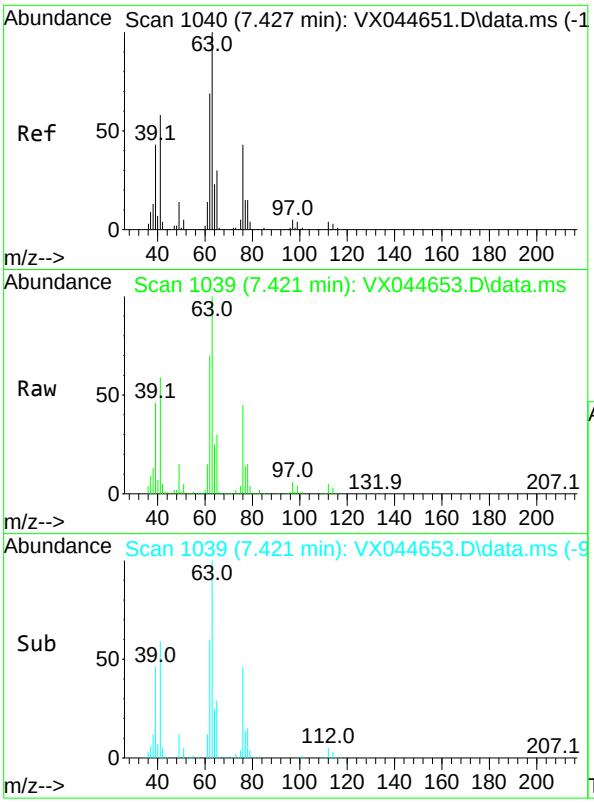




#44
Trichloroethene
Concen: 161.735 ug/l
RT: 7.117 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:130 Resp: 309226

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.7 | 0.0 | 208.2 |



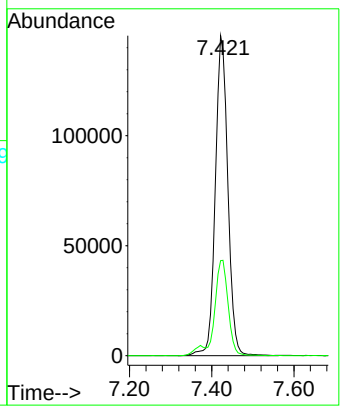


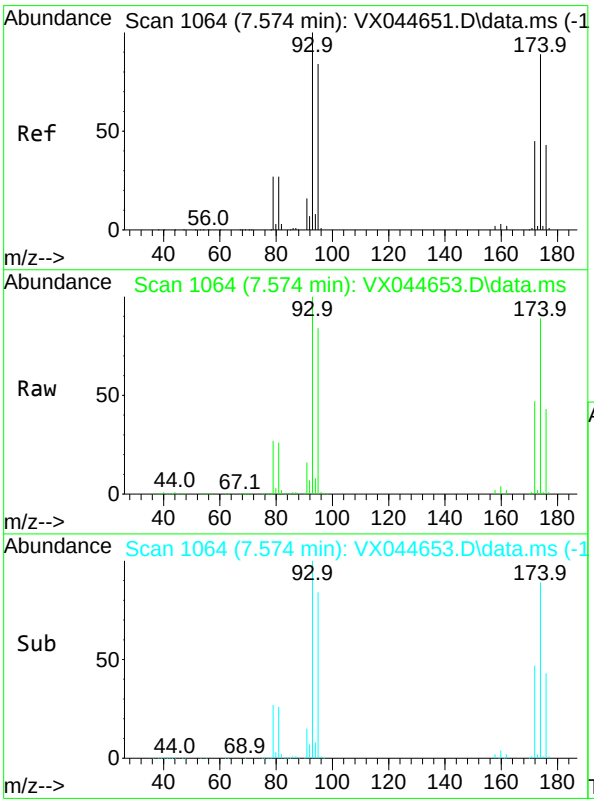

#45
1,2-Dichloropropane
Concen: 154.175 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 63 Resp: 308641

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 29.7 | 24.2 | 36.2 |

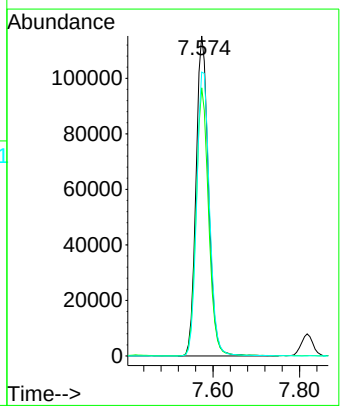


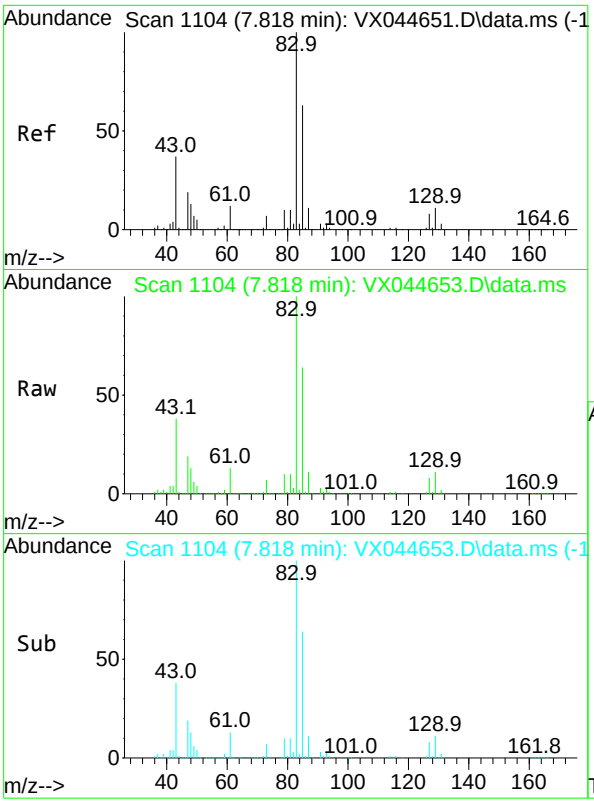




#46
Dibromomethane
Concen: 152.021 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 93 Resp: 231674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.6 | 66.4 | 99.6 |
| 174 | 91.2 | 72.0 | 108.0 |



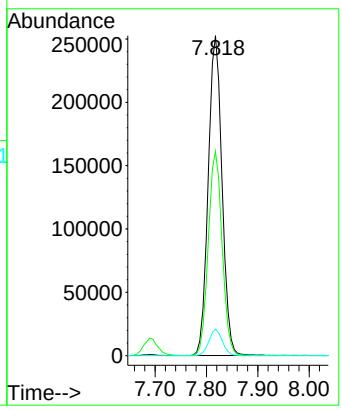


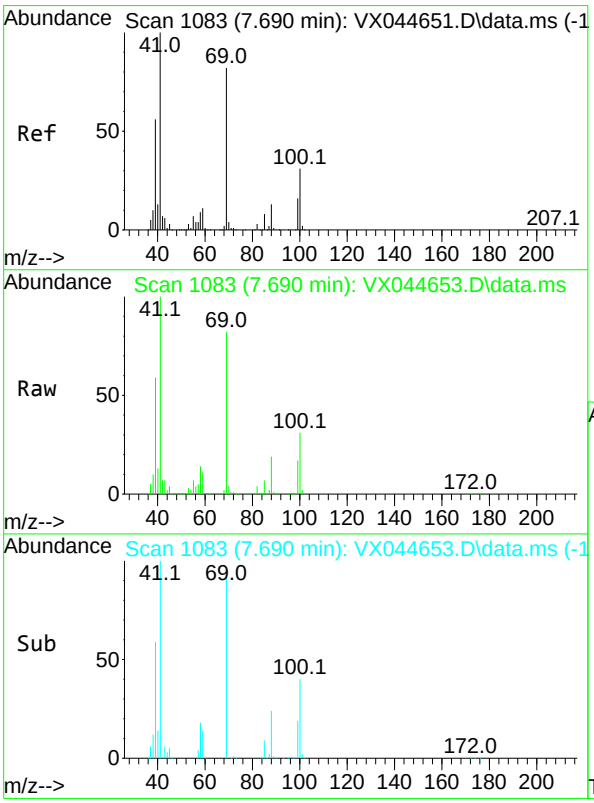

#47
Bromodichloromethane
Concen: 150.924 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 471682

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 50.1 | 75.1 |
| 127 | 8.3 | 6.5 | 9.7 |

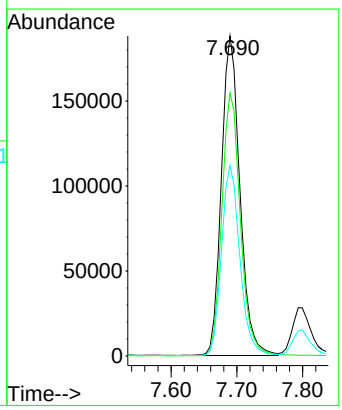


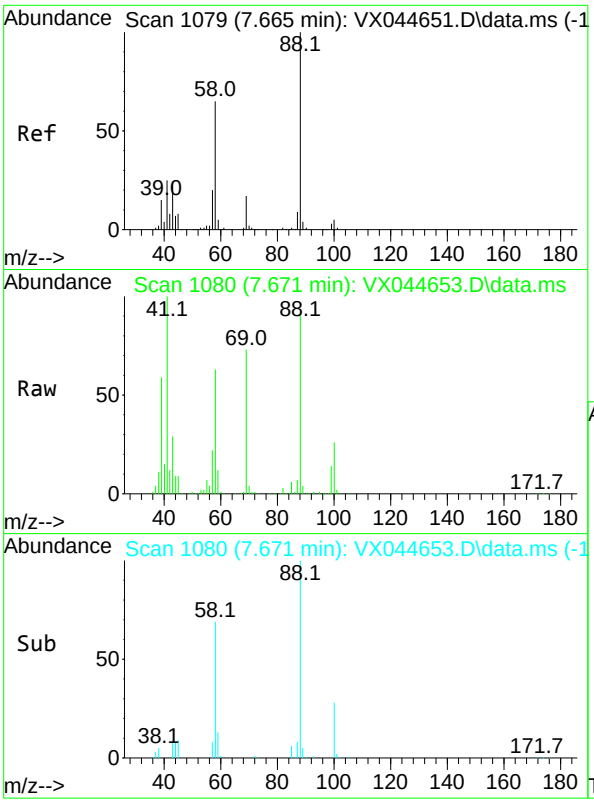




#48
Methyl methacrylate
Concen: 157.946 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 41 Resp: 368626

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 82.4 | 66.8 | 100.2 |
| 39 | 59.1 | 47.4 | 71.0 |



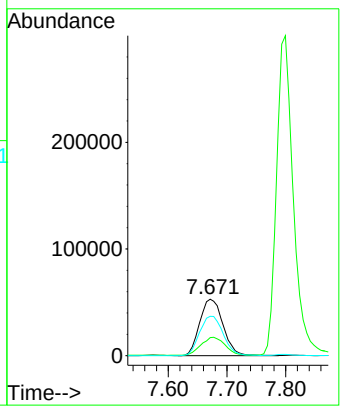


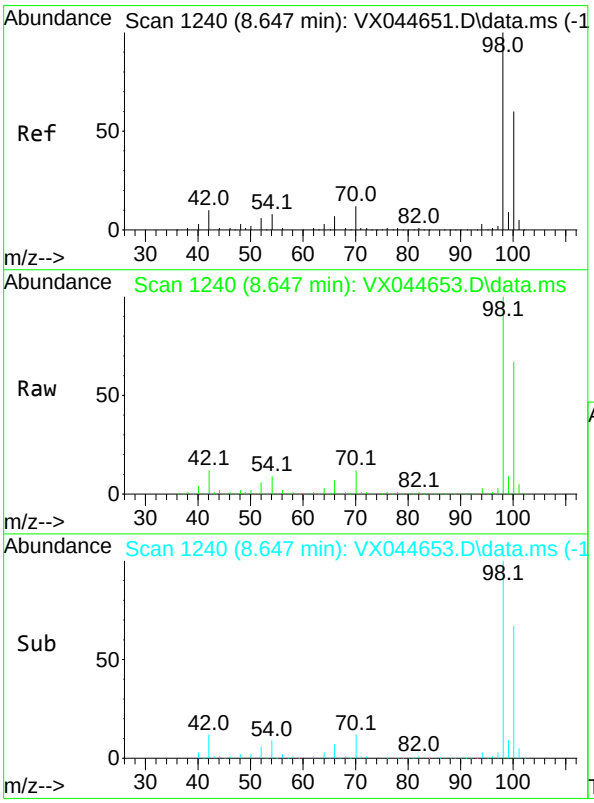

#49
1,4-Dioxane
Concen: 3005.585 ug/l
RT: 7.671 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 88 Resp: 146350

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.0 | 27.0 | 40.4 |
| 58 | 70.7 | 55.8 | 83.8 |

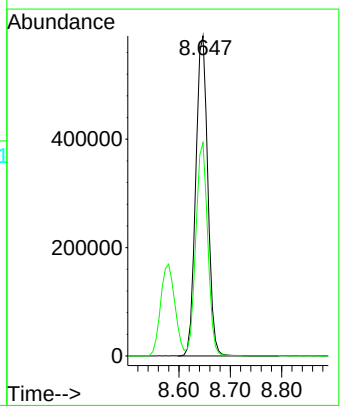


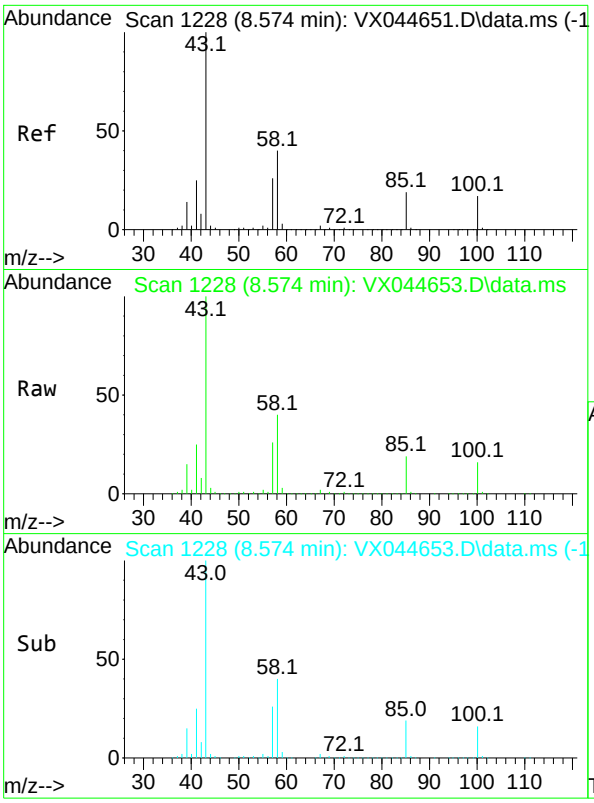




#50
Toluene-d8
Concen: 149.572 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 98 Resp: 961550

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.1 | 53.2 | 79.8 |



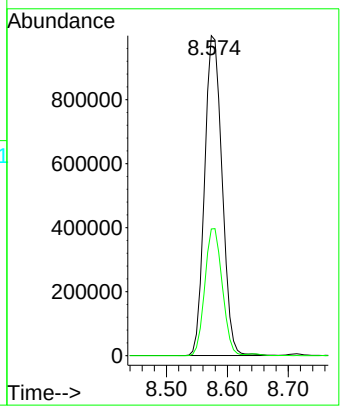


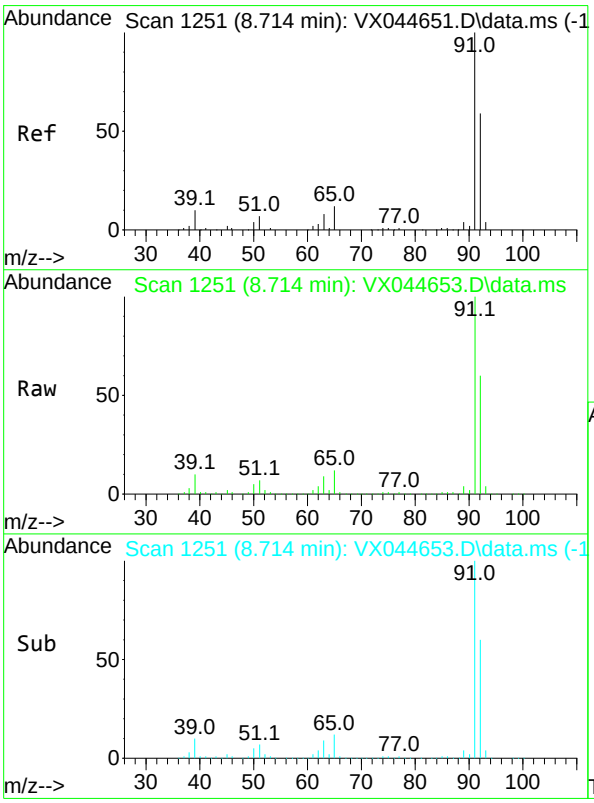

#51
4-Methyl-2-Pentanone
Concen: 717.818 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 1994498

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.7 | 31.9 | 47.9 |

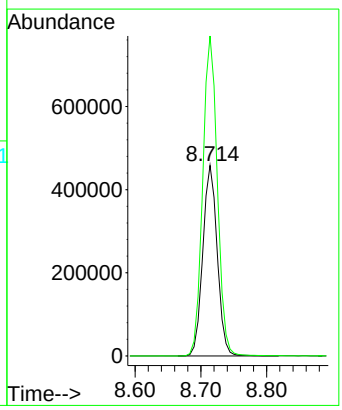


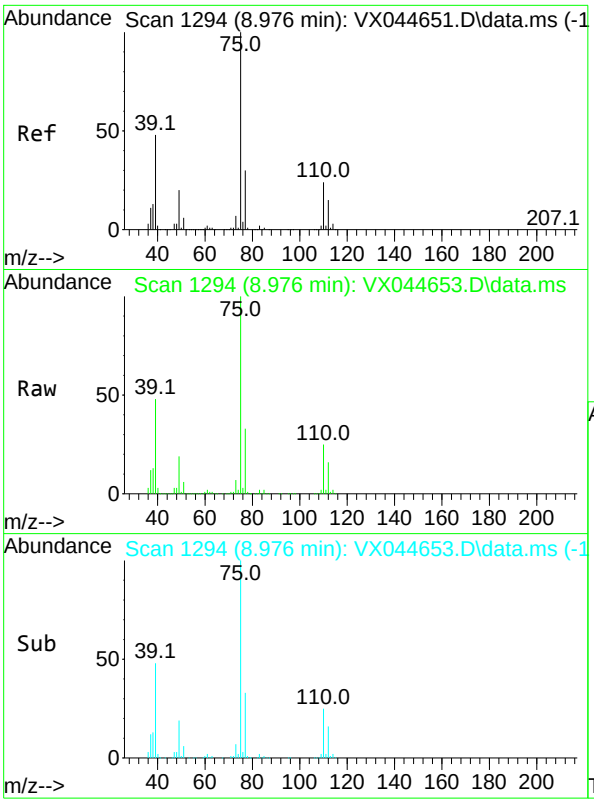




#52
Toluene
Concen: 143.719 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 92 Resp: 699585

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 169.9 | 135.7 | 203.5 |



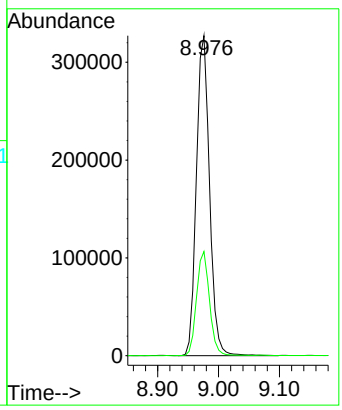


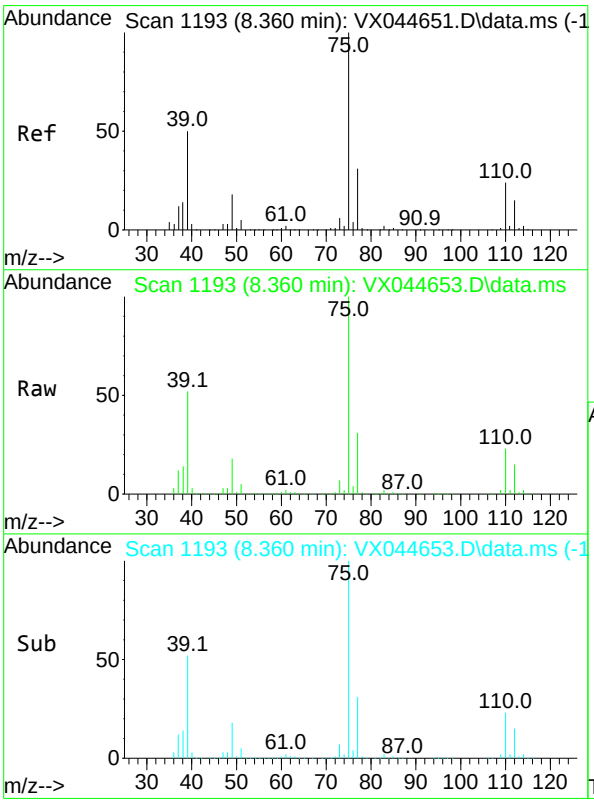

#53
t-1,3-Dichloropropene
Concen: 151.880 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 75 Resp: 490414

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.5 | 24.4 | 36.6 |

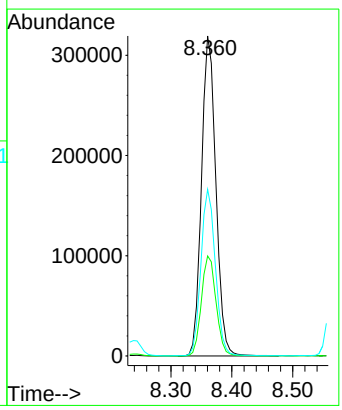


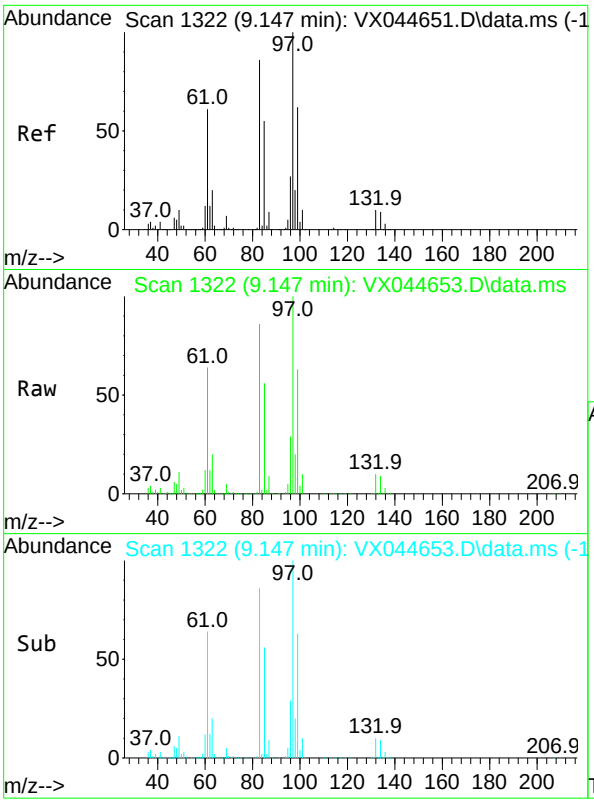




#54
cis-1,3-Dichloropropene
Concen: 149.891 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 75 Resp: 524796

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.2 | 25.1 | 37.7 |
| 39 | 52.0 | 40.3 | 60.5 |



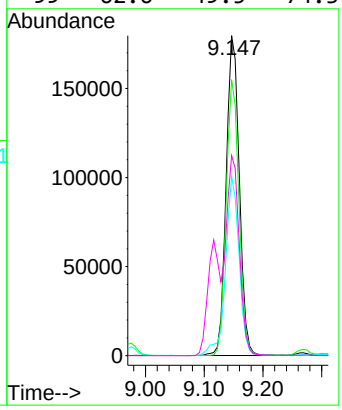


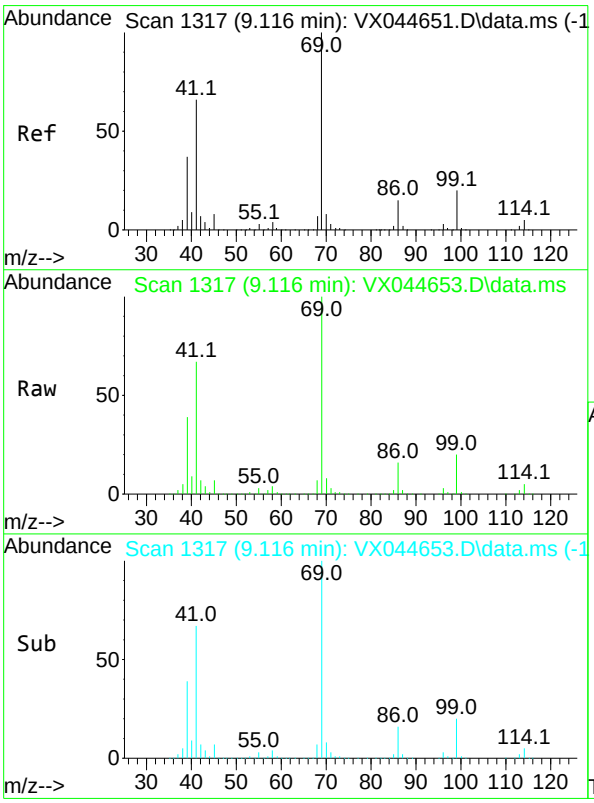

#55
1,1,2-Trichloroethane
Concen: 141.923 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 97 Resp: 279505

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.2 | 68.8 | 103.2 |
| 85 | 56.0 | 43.7 | 65.5 |
| 99 | 62.6 | 49.5 | 74.3 |

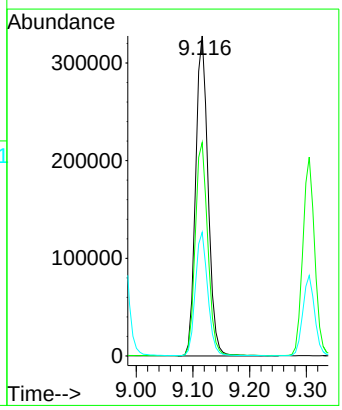


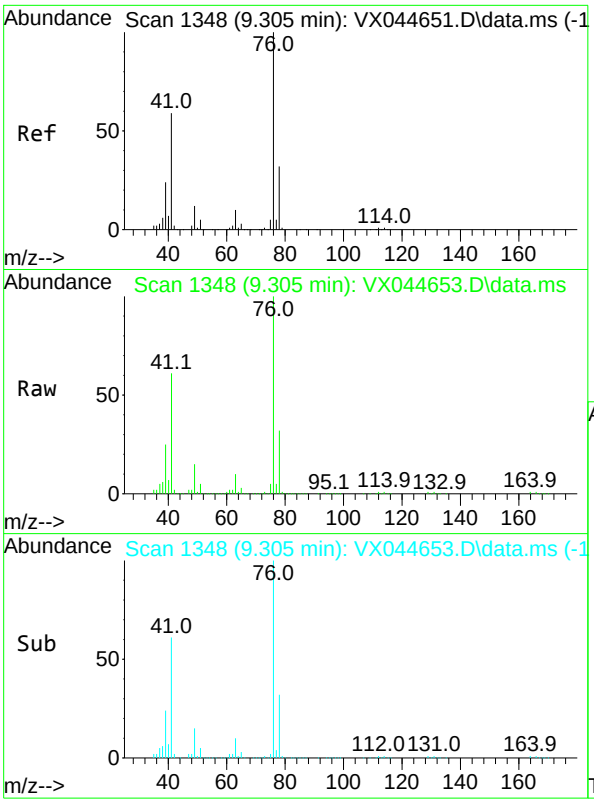




#56
Ethyl methacrylate
Concen: 147.609 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 69 Resp: 499842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.9 | 53.2 | 79.8 |
| 39 | 38.0 | 30.2 | 45.2 |



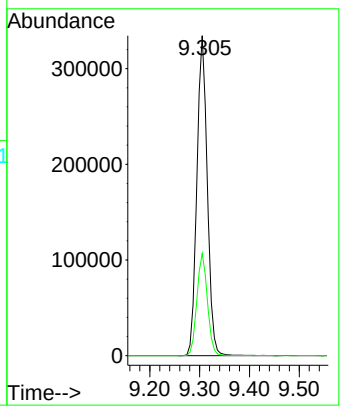


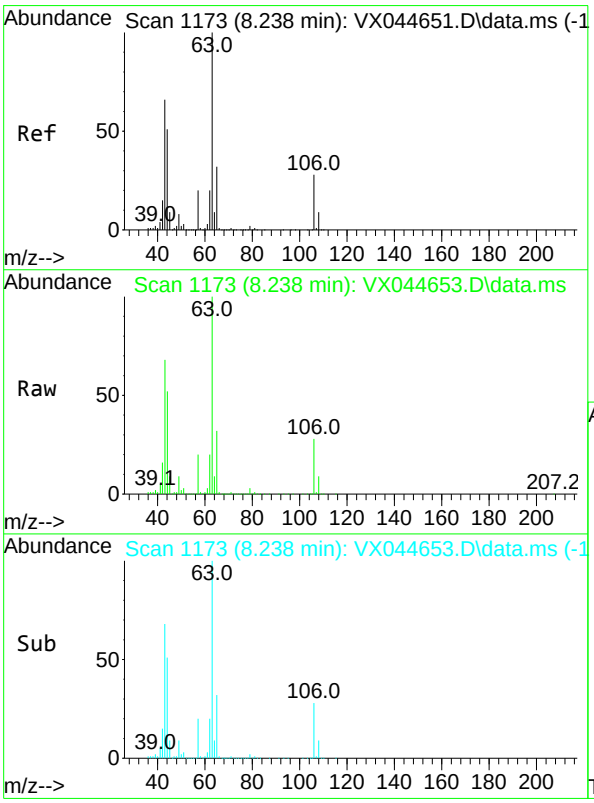

#57
1,3-Dichloropropane
Concen: 144.720 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 76 Resp: 485347

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.1 | 26.0 | 39.0 |

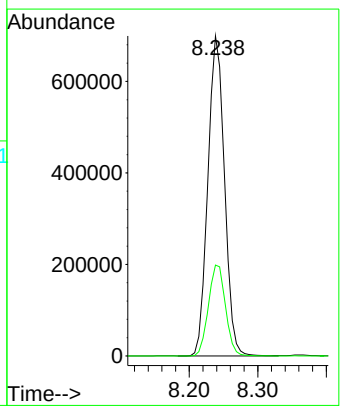


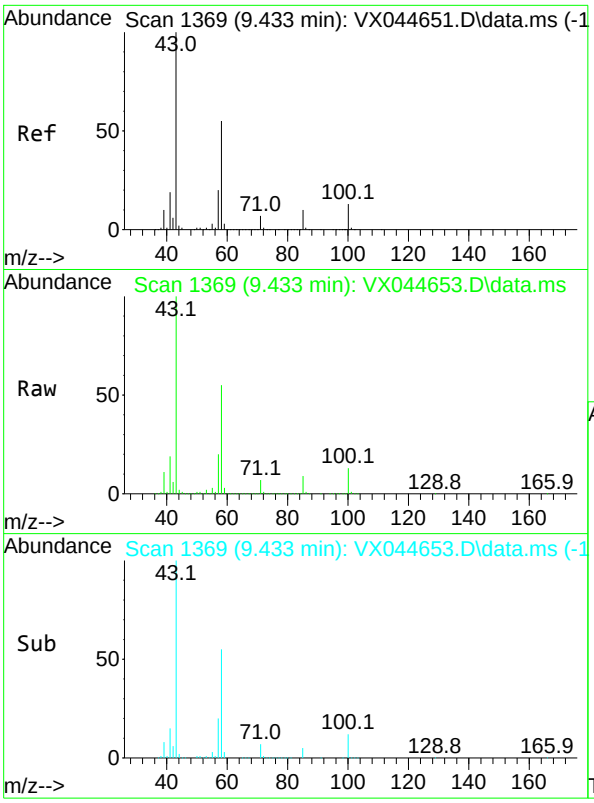




#58
2-Chloroethyl Vinyl ether
Concen: 708.825 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 63 Resp: 1178391

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 29.1 | 23.0 | 34.6 |



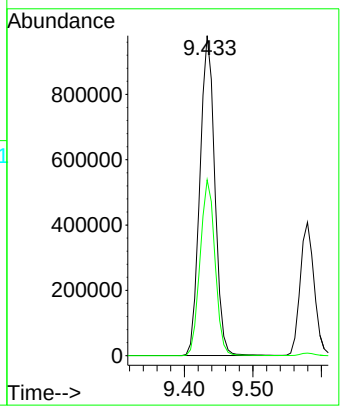


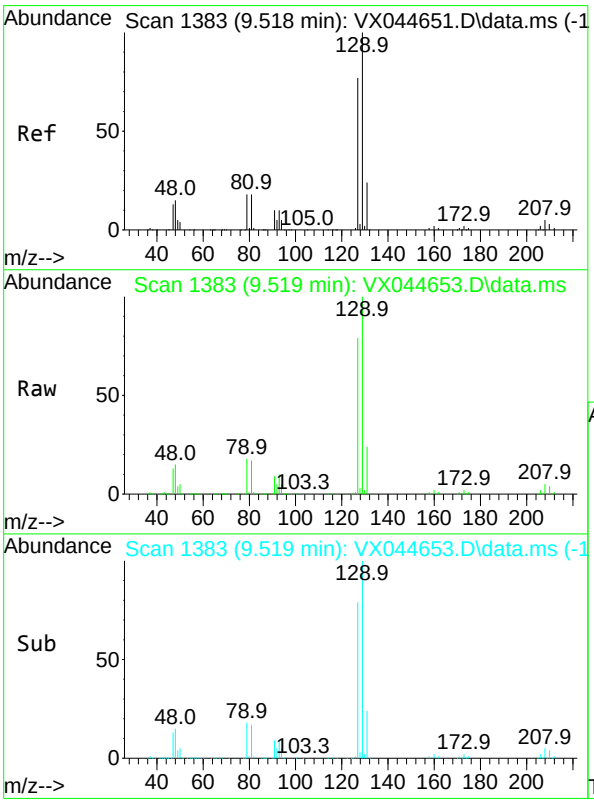

#59
2-Hexanone
Concen: 725.401 ug/l
RT: 9.433 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 43 Resp: 1482861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.1 | 27.8 | 83.3 |

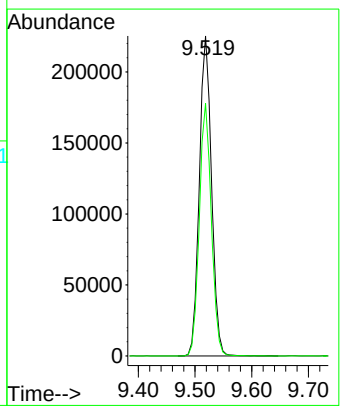


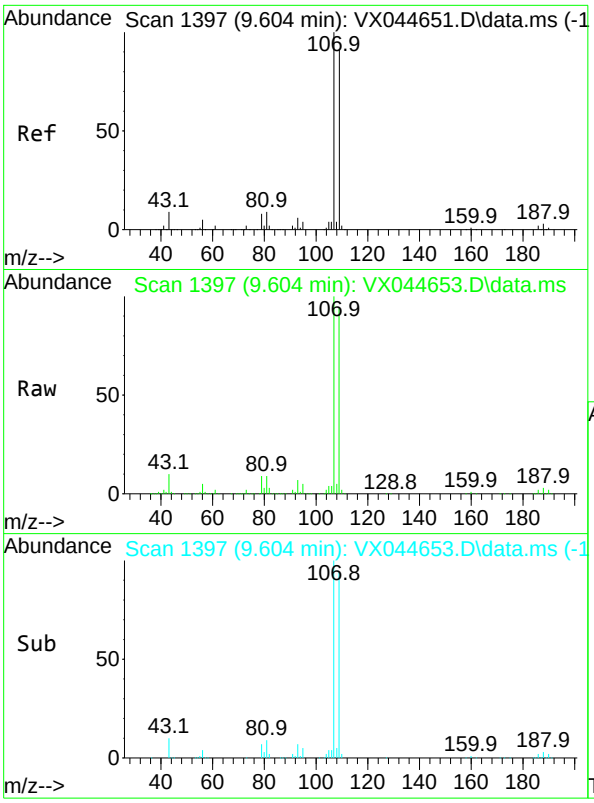




#60
Dibromochloromethane
Concen: 145.333 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:129 Resp: 335937

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.9 | 38.5 | 115.5 |



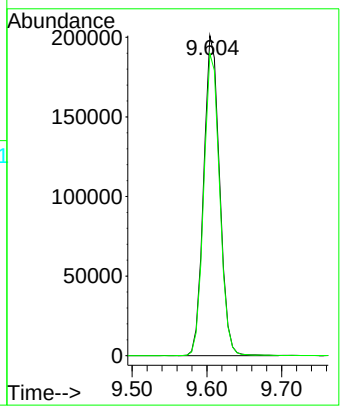


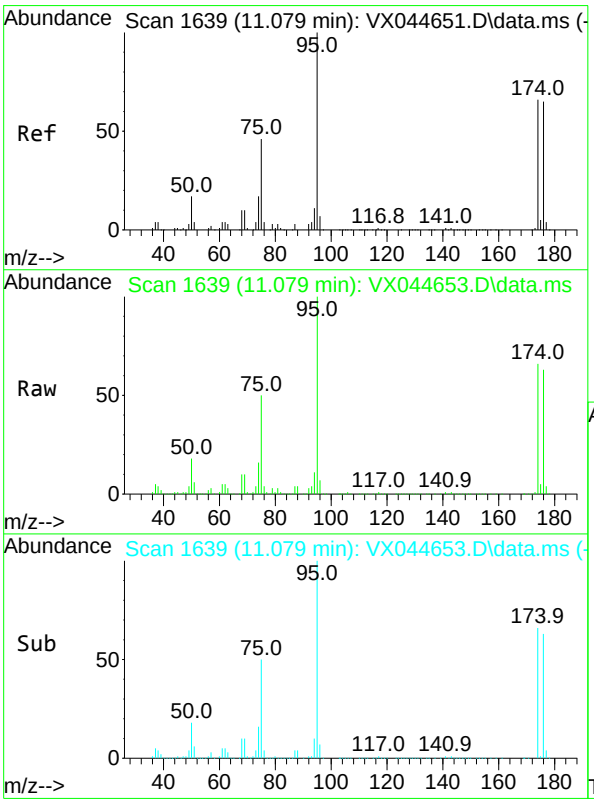

#61
1,2-Dibromoethane
Concen: 143.893 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:107 Resp: 296982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.6 | 75.3 | 112.9 |

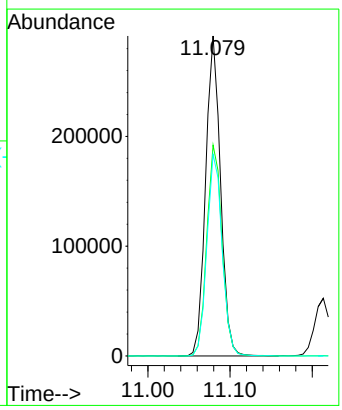


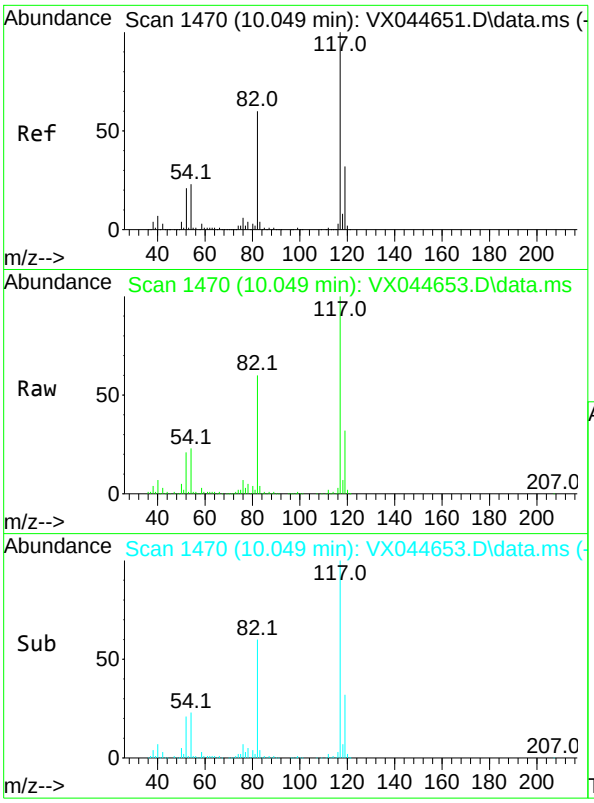




#62
4-Bromofluorobenzene
Concen: 153.105 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 95 Resp: 366922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.5 | 0.0 | 133.0 |
| 176 | 64.4 | 0.0 | 129.4 |



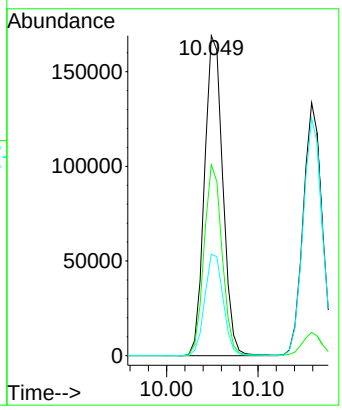


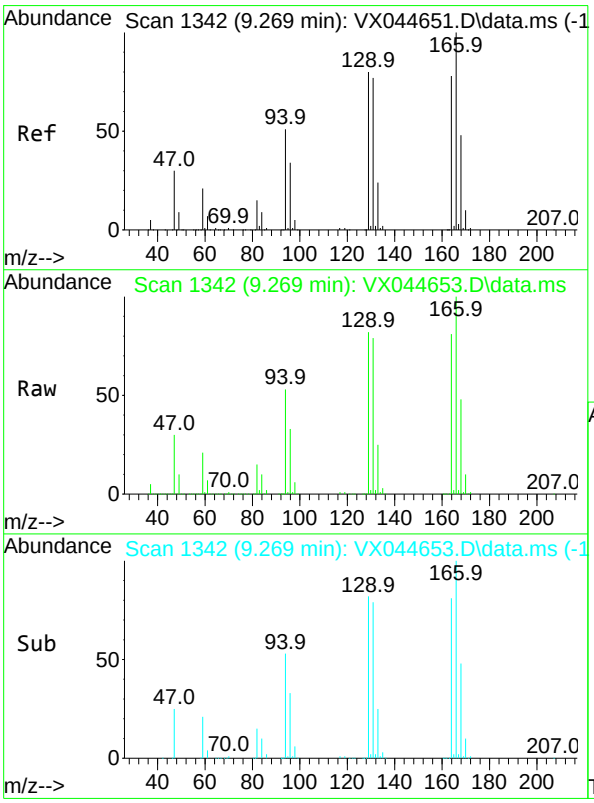

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:117 Resp: 234362

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.6 | 47.6 | 71.4 |
| 119 | 31.7 | 25.4 | 38.2 |

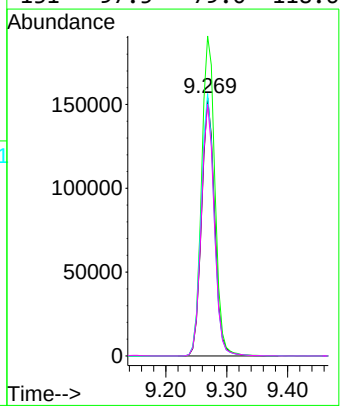


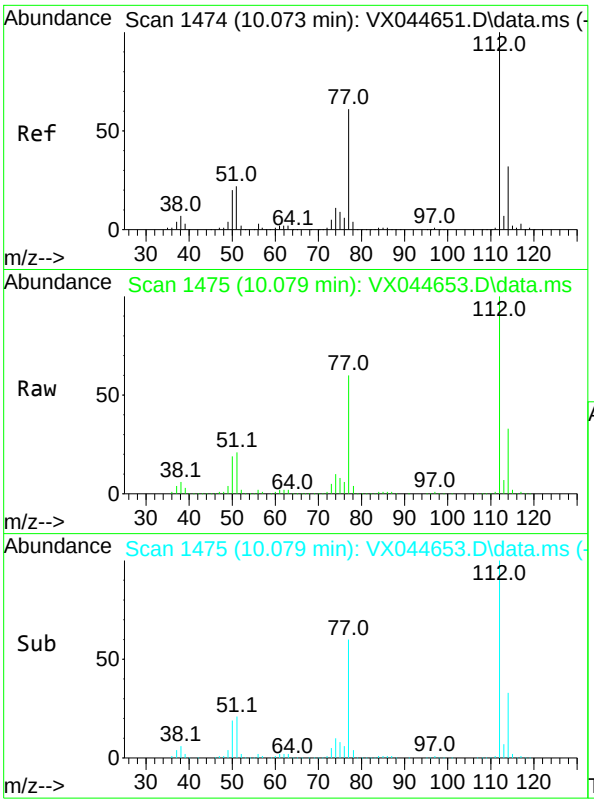




#64
Tetrachloroethene
Concen: 155.612 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:164 Resp: 229004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 124.0 | 102.0 | 153.0 |
| 129 | 101.7 | 81.1 | 121.7 |
| 131 | 97.5 | 79.0 | 118.6 |



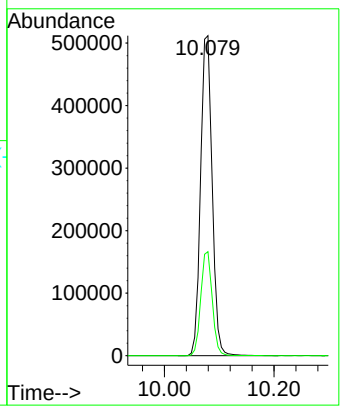


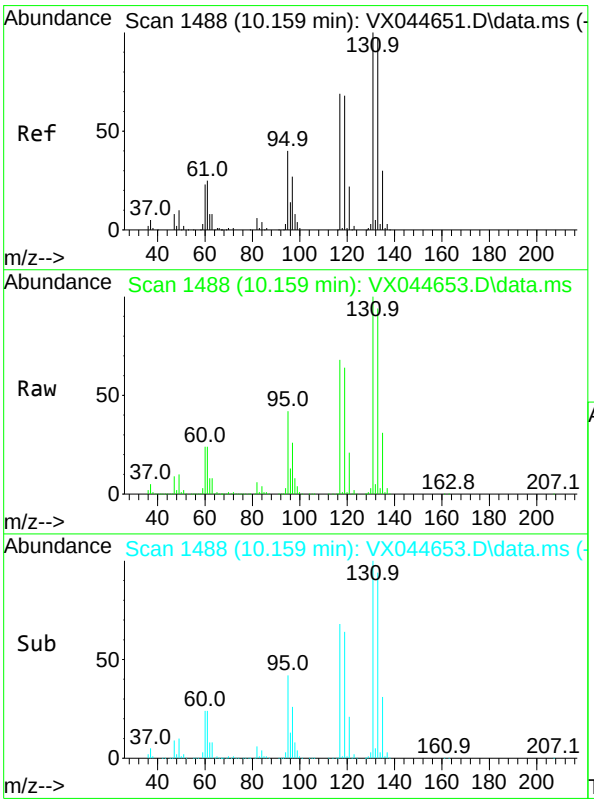

#65
Chlorobenzene
Concen: 150.697 ug/l
RT: 10.079 min Scan# 14
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:112 Resp: 750161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.5 | 25.3 | 37.9 |

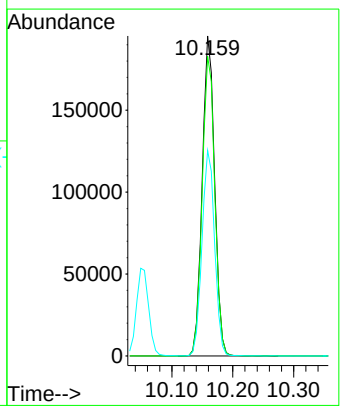


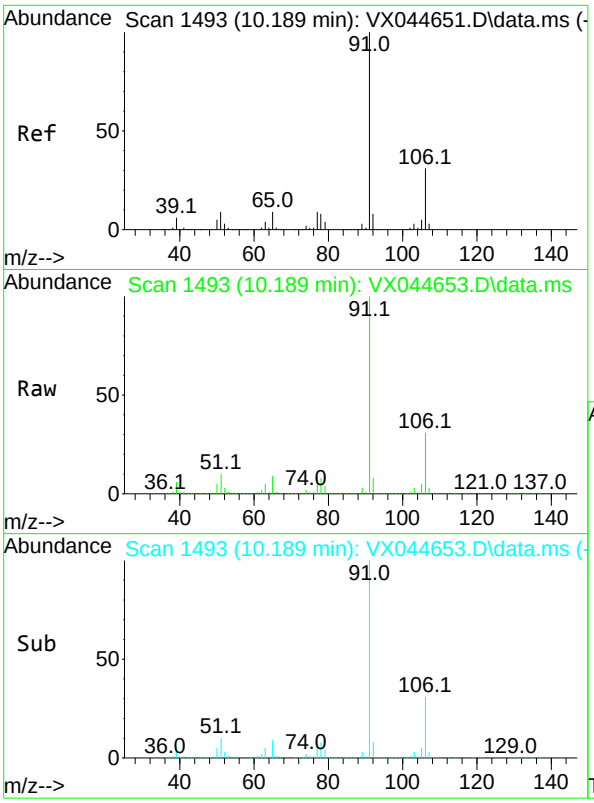




#66
1,1,1,2-Tetrachloroethane
Concen: 153.108 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:131 Resp: 276991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.0 | 47.8 | 143.3 |
| 119 | 65.5 | 33.4 | 100.2 |



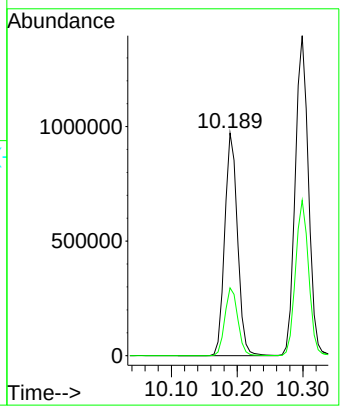


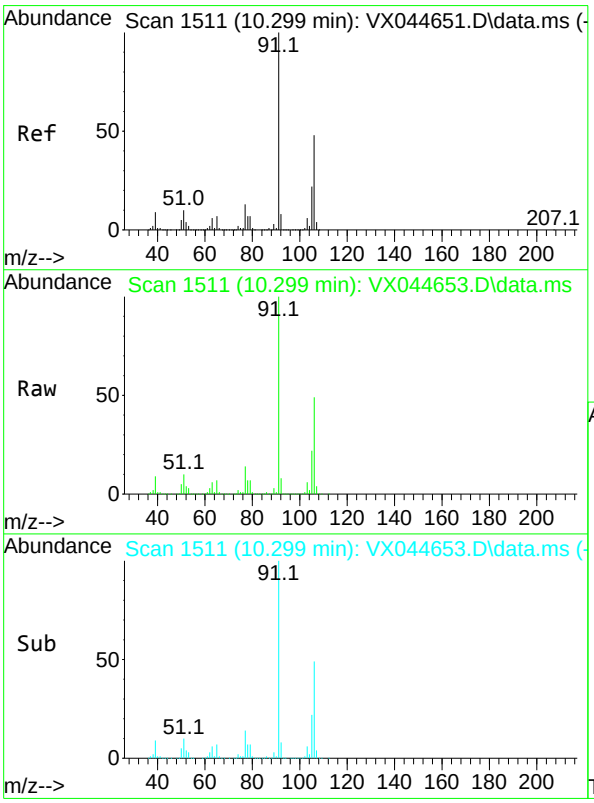

#67
Ethyl Benzene
Concen: 151.424 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 1315242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.5 | 25.0 | 37.6 |

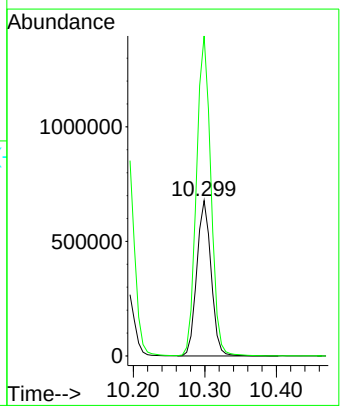


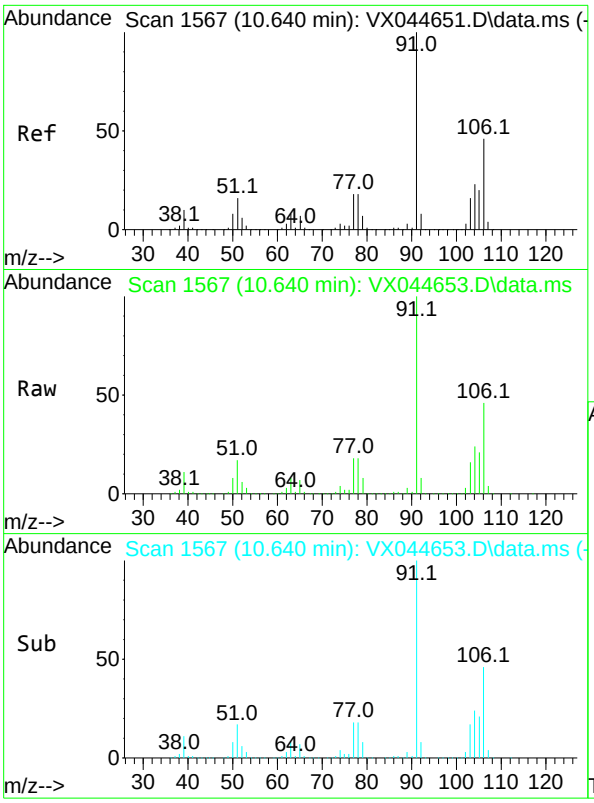




#68
m/p-Xylenes
Concen: 292.054 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:106 Resp: 941355

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.8 | 166.4 | 249.6 |



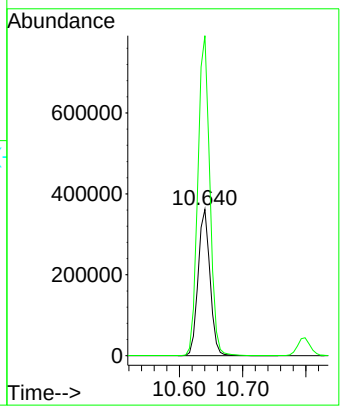


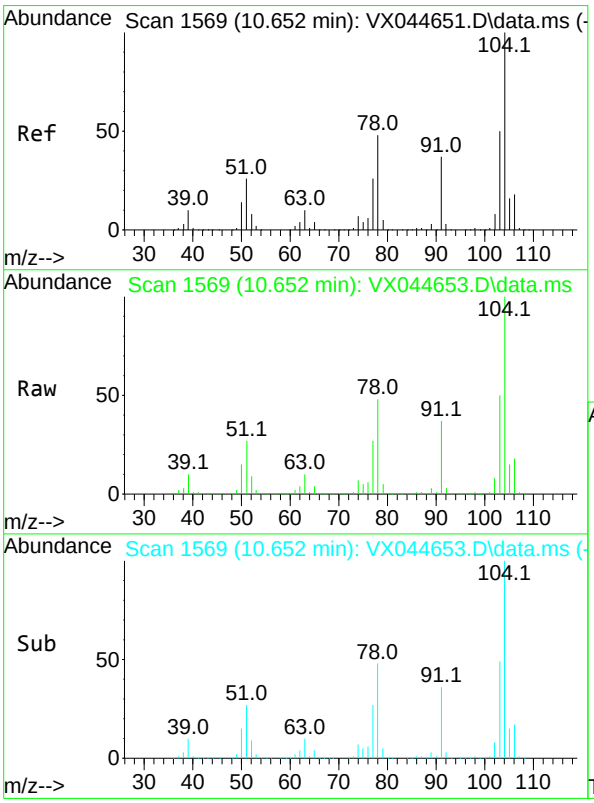

#69
o-Xylene
Concen: 145.386 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:106 Resp: 473907

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.9 | 108.7 | 326.3 |

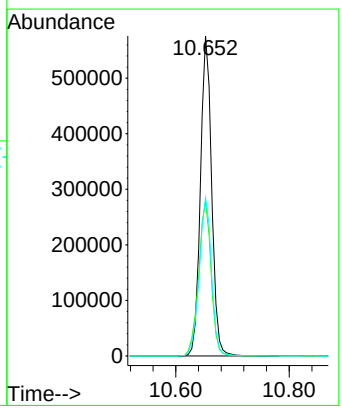


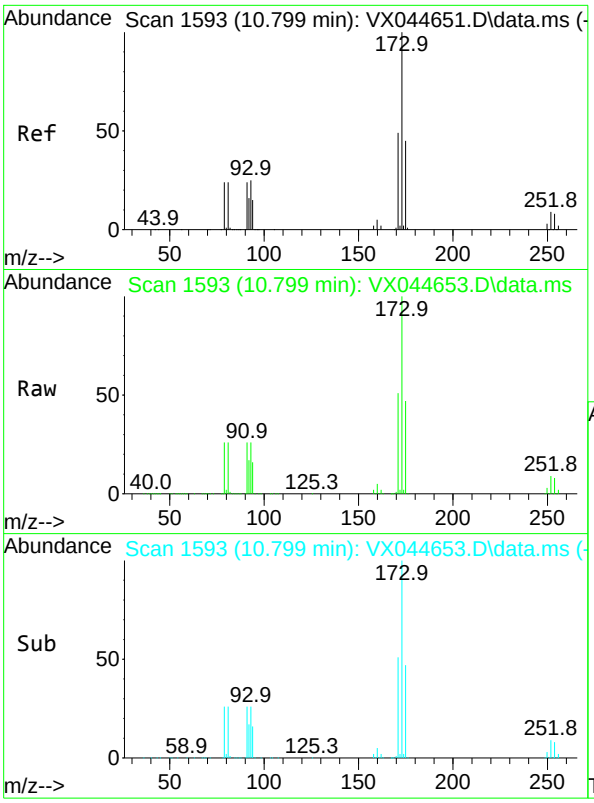




#70
Styrene
Concen: 150.660 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:104 Resp: 792889

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 54.0 | 43.0 | 64.6 |
| 103 | 54.3 | 43.4 | 65.2 |



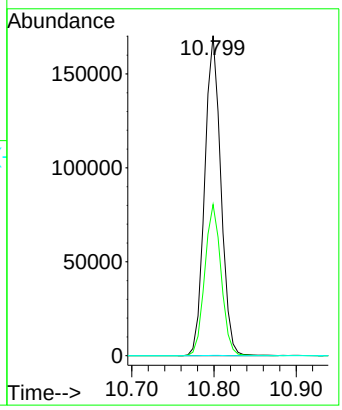


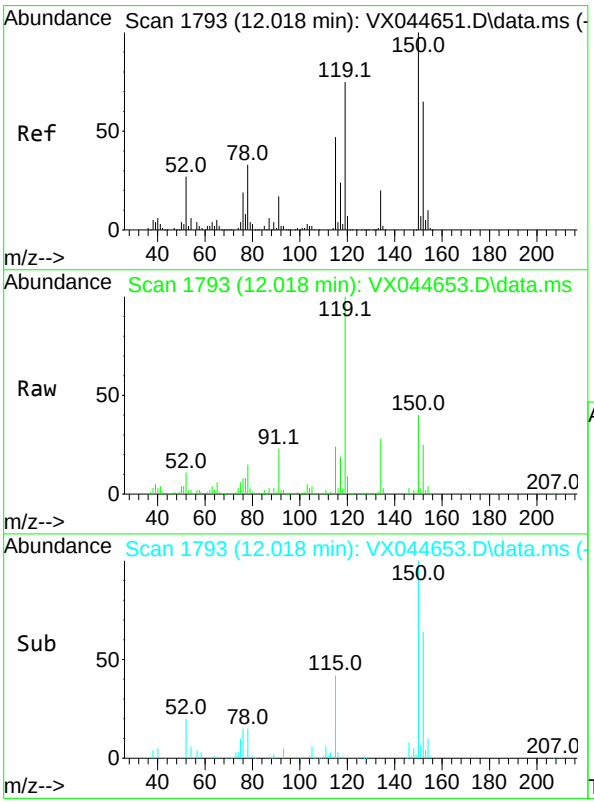

#71
Bromoform
Concen: 157.877 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:173 Resp: 232464

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1 |

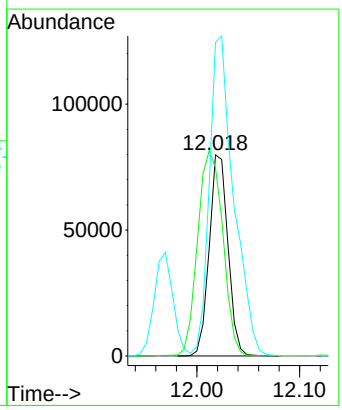


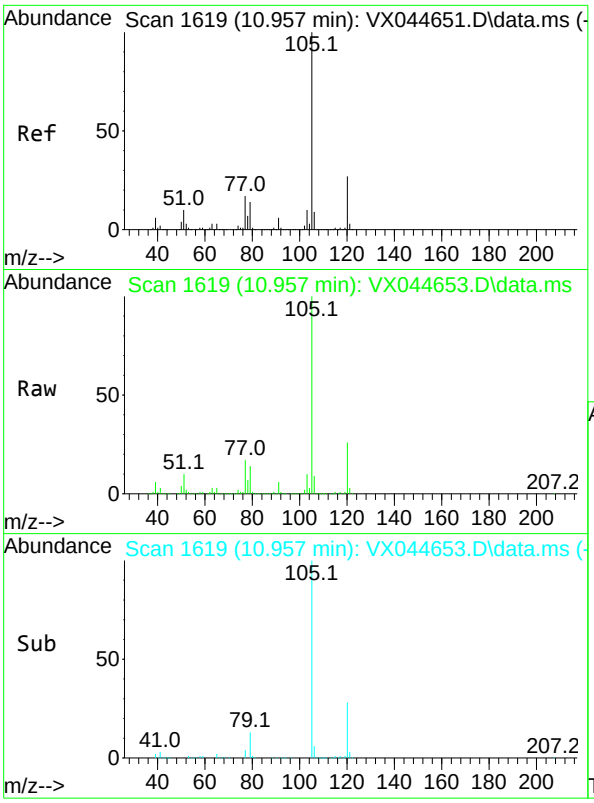




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:152 Resp: 100996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 137.3 | 43.8 | 131.4# |
| 150 | 206.7 | 0.0 | 347.8 |



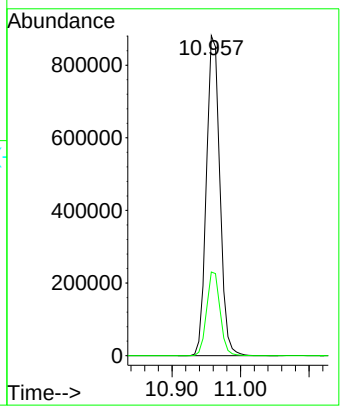


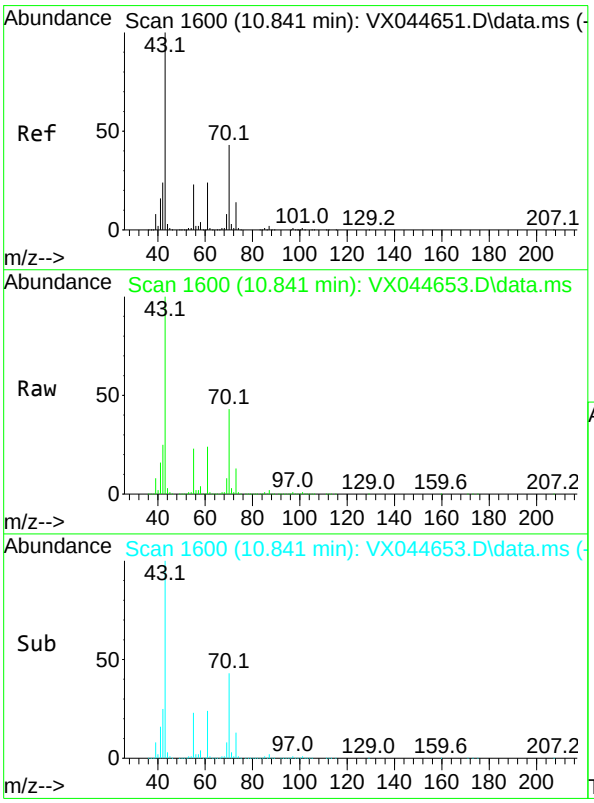

#73
Isopropylbenzene
Concen: 146.343 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:105 Resp: 1207427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.2 | 13.2 | 39.6 |

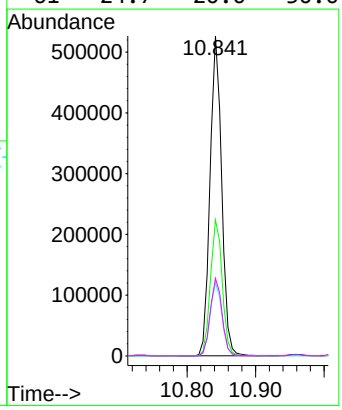


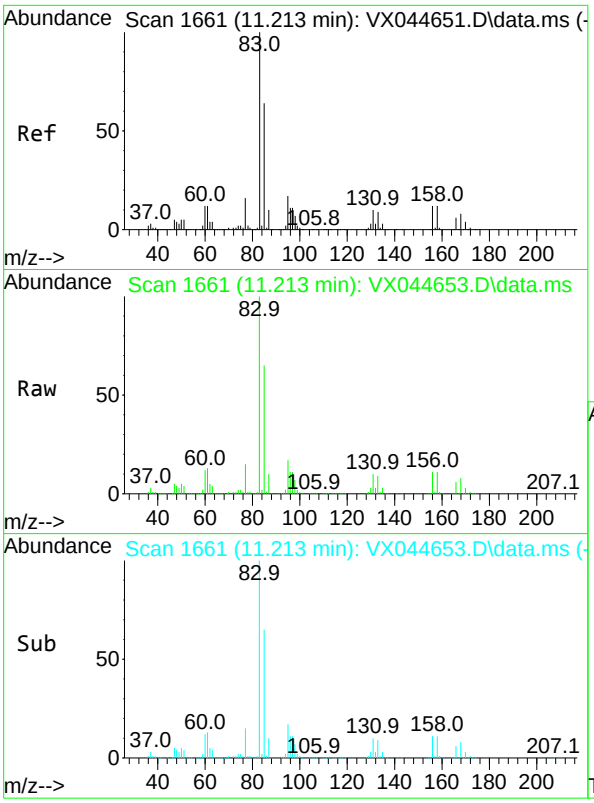




#74
N-amyl acetate
Concen: 153.069 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 43 Resp: 622491

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.3 | 35.2 | 52.8 |
| 55 | 23.3 | 19.0 | 28.4 |
| 61 | 24.7 | 20.0 | 30.0 |



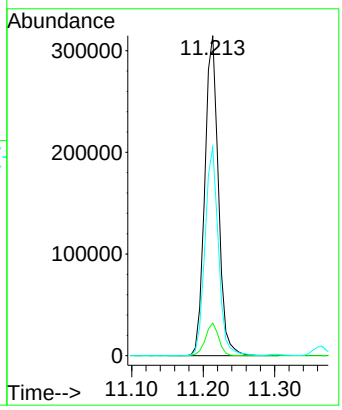


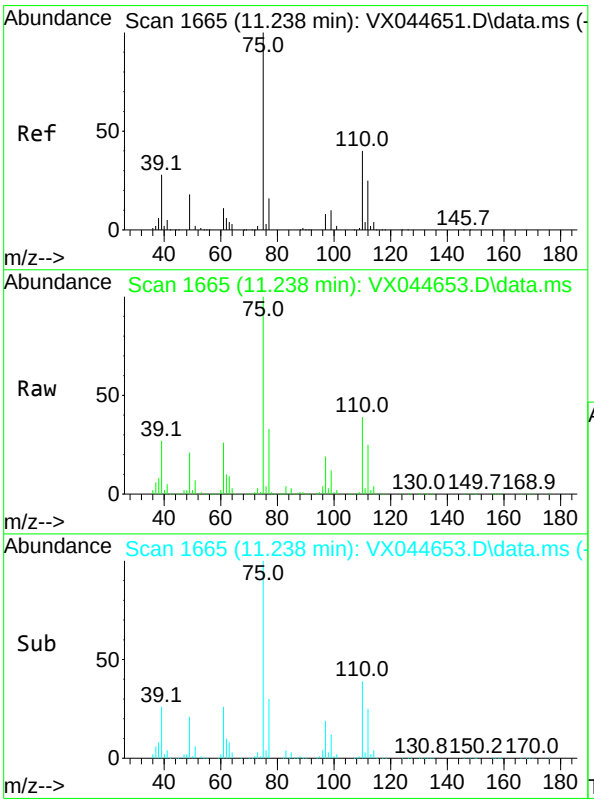

#75
1,1,2,2-Tetrachloroethane
Concen: 145.660 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 83 Resp: 415068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 10.0 | 5.0 | 14.9 |
| 85 | 64.5 | 32.0 | 96.2 |

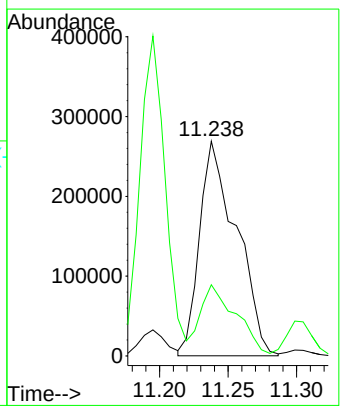


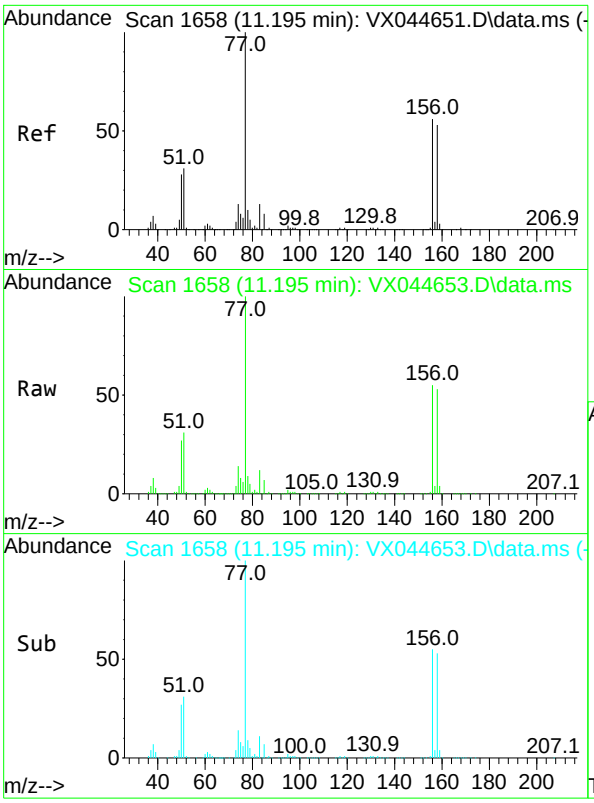




#76
1,2,3-Trichloropropane
Concen: 206.343 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 75 Resp: 505752

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.3 | 23.4 | 70.2 |



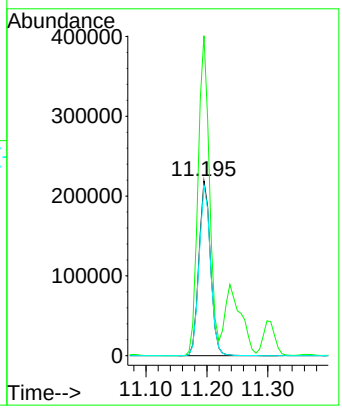


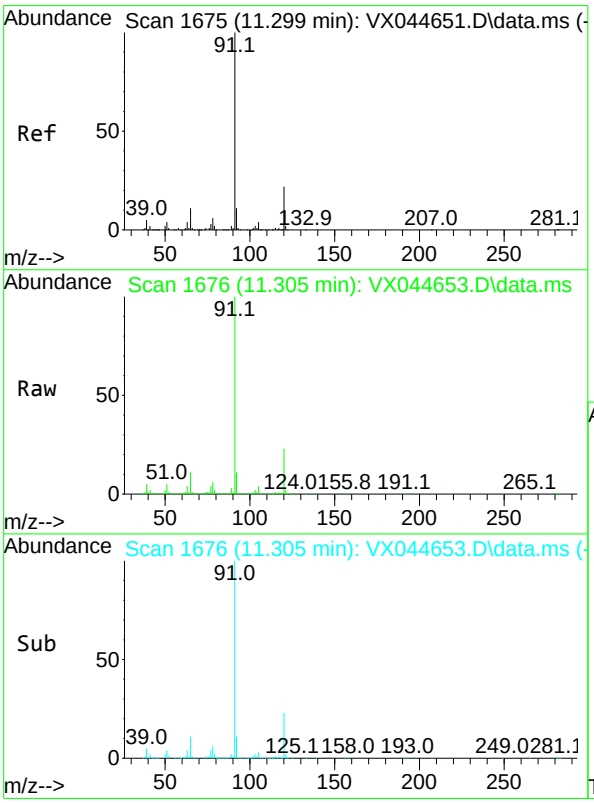

#77
Bromobenzene
Concen: 149.641 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:156 Resp: 288579

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 180.4 | 90.3 | 271.0 |
| 158 | 97.5 | 48.4 | 145.3 |

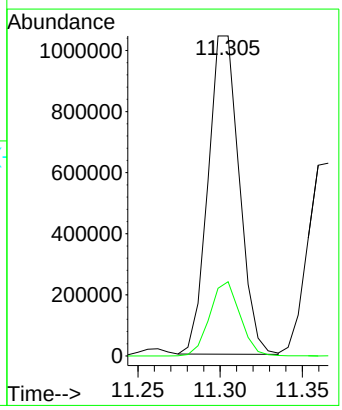


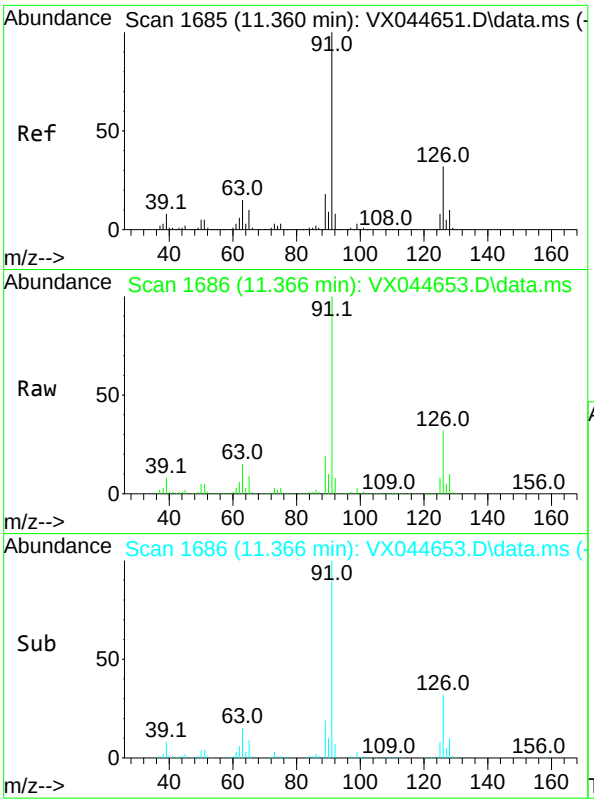




#78
n-propylbenzene
Concen: 151.223 ug/l
RT: 11.305 min Scan# 1676
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 91 Resp: 1375979

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.4 | 34.1 |



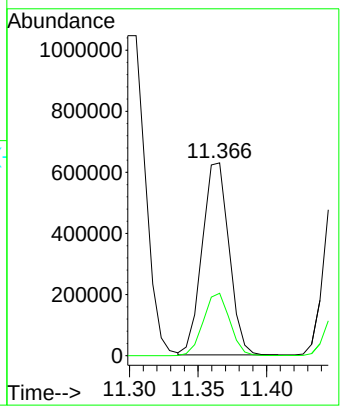


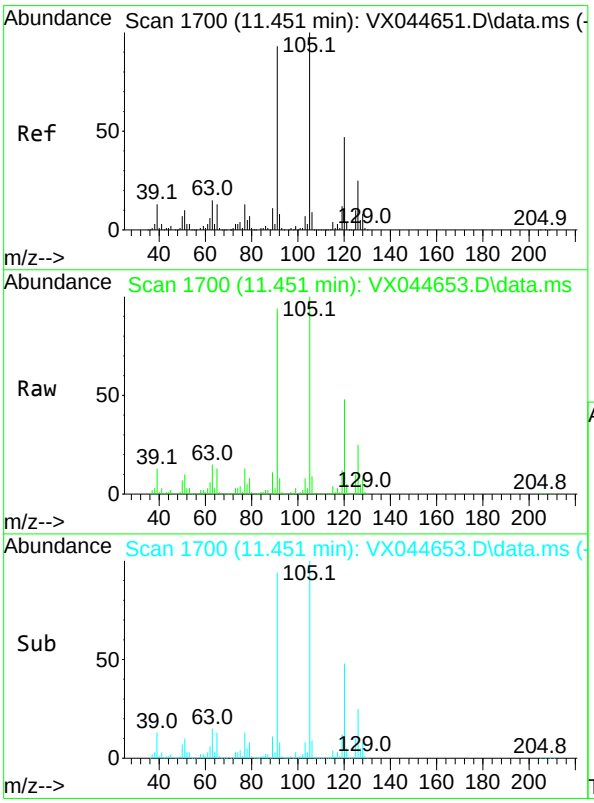

#79
2-Chlorotoluene
Concen: 145.911 ug/l
RT: 11.366 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 857617

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.0 | 16.2 | 48.5 |

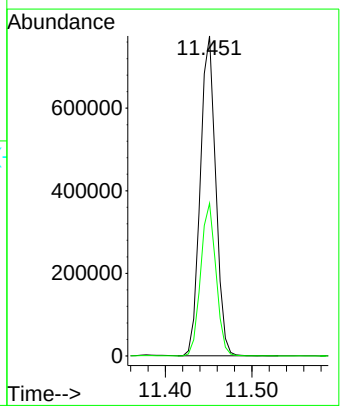


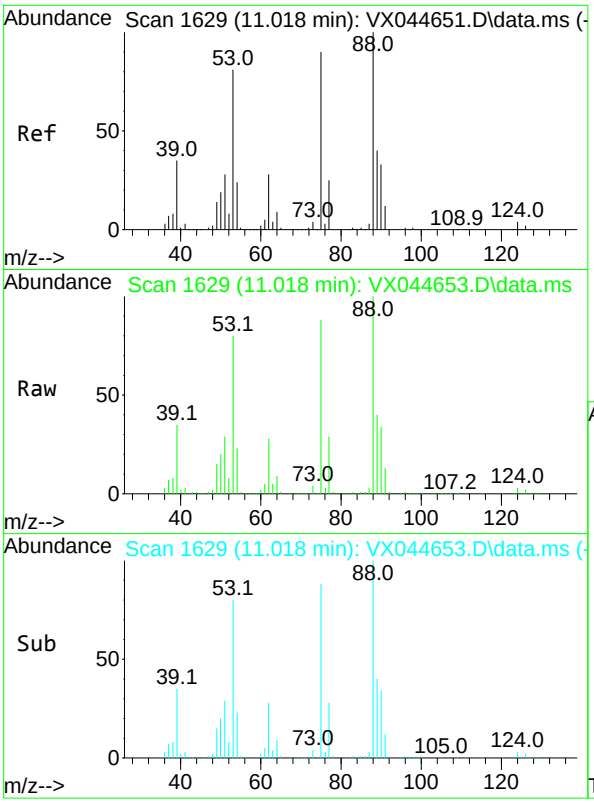




#80
1,3,5-Trimethylbenzene
Concen: 142.870 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:105 Resp: 959600

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.3 | 23.7 | 71.1 |



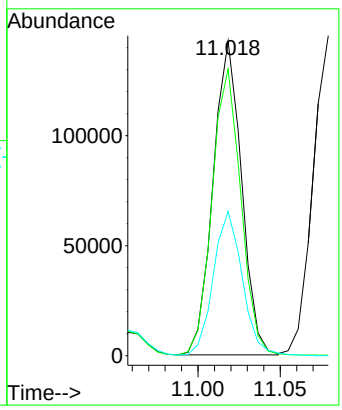


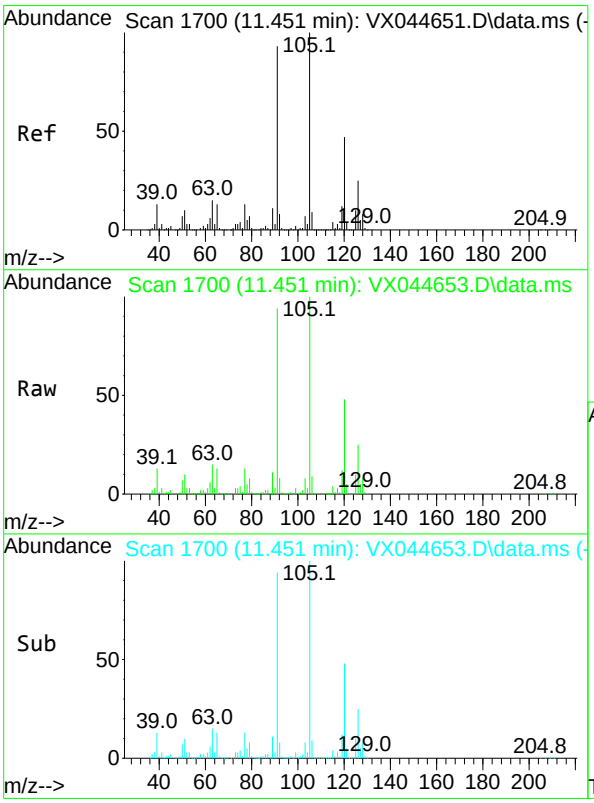

#81
trans-1,4-Dichloro-2-butene
Concen: 160.280 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 75 Resp: 171786

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 92.3 | 74.3 | 111.5 |
| 89 | 47.0 | 37.4 | 56.0 |

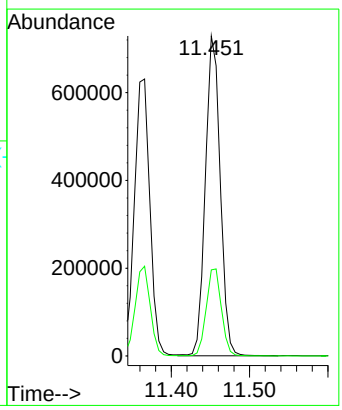


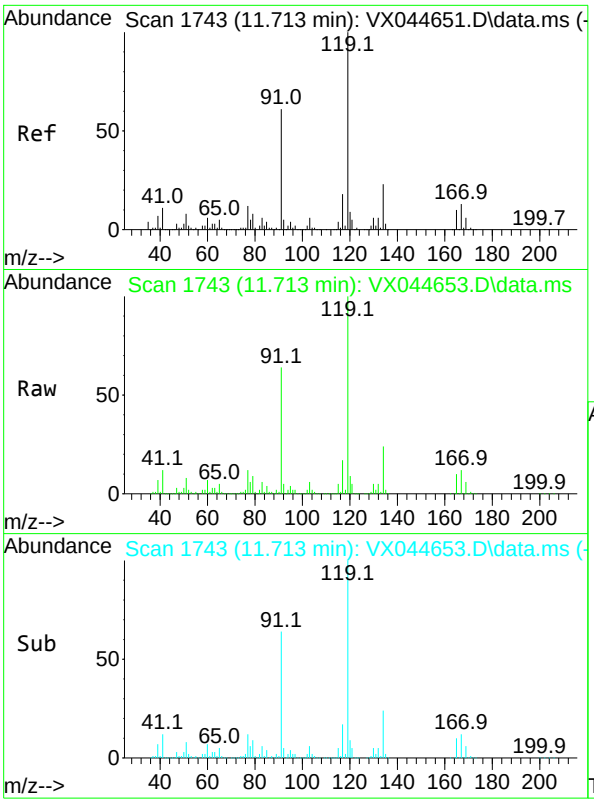




#82
4-Chlorotoluene
Concen: 148.761 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 91 Resp: 957835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 27.8 | 13.9 | 41.7 |



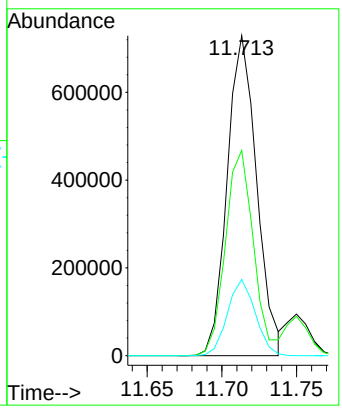


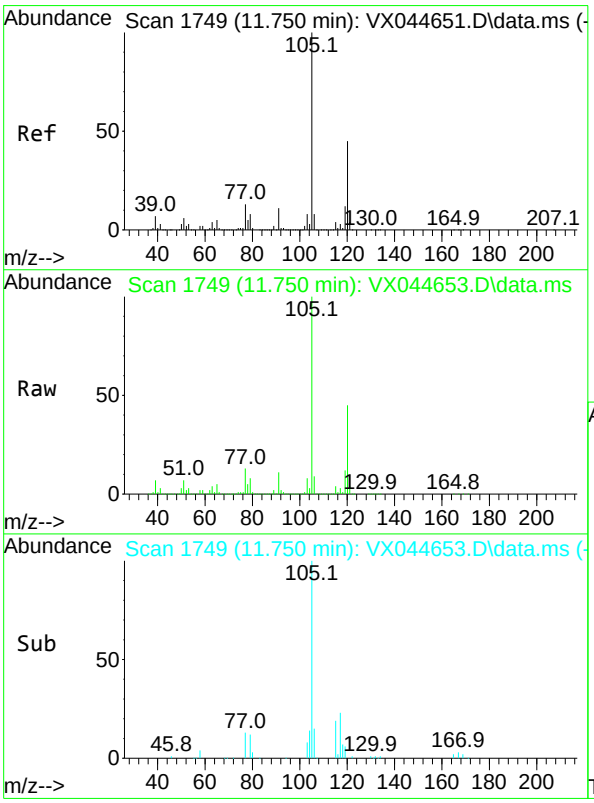

#83
tert-Butylbenzene
Concen: 142.356 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:119 Resp: 999760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 61.4 | 30.0 | 90.0 |
| 134 | 22.5 | 11.2 | 33.5 |

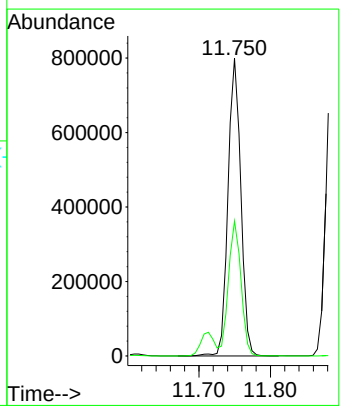


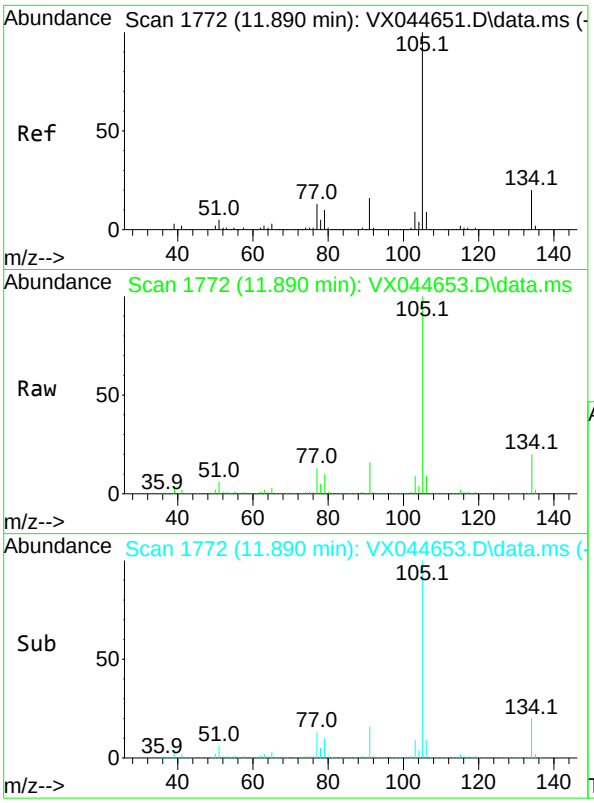




#84
1,2,4-Trimethylbenzene
Concen: 145.281 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:105 Resp: 991595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.6 | 22.2 | 66.6 |



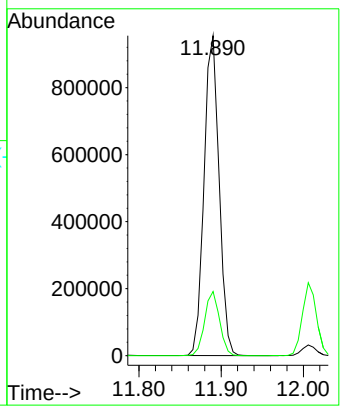


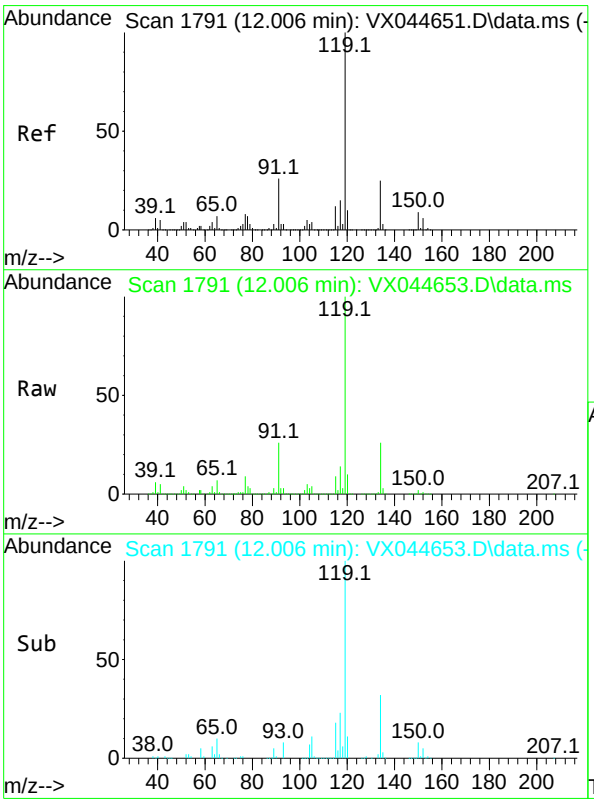

#85
sec-Butylbenzene
Concen: 148.543 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:105 Resp: 1214662

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.9 | 9.8 | 29.5 |

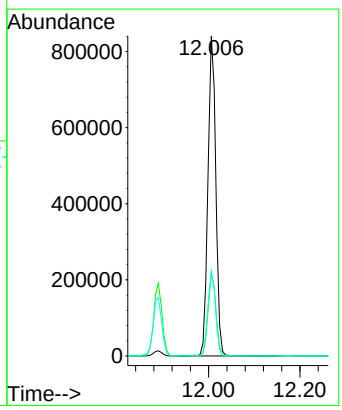


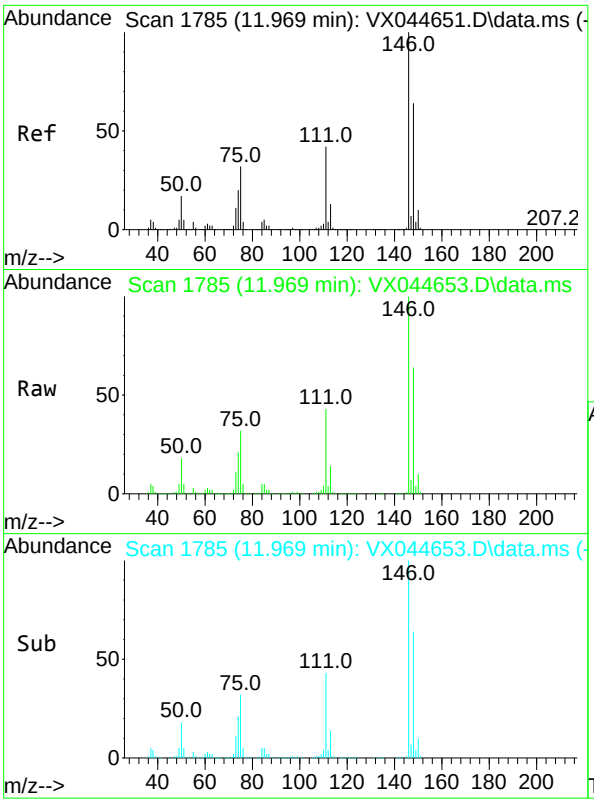




#86
p-Isopropyltoluene
Concen: 148.902 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:119 Resp: 1000632

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.8 | 12.8 | 38.4 |
| 91 | 25.9 | 12.7 | 38.1 |



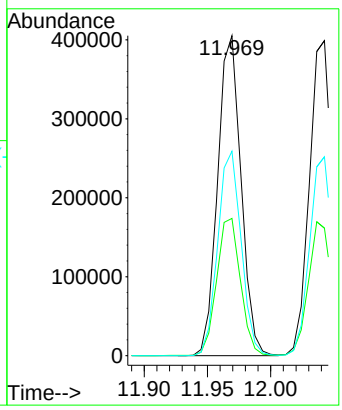


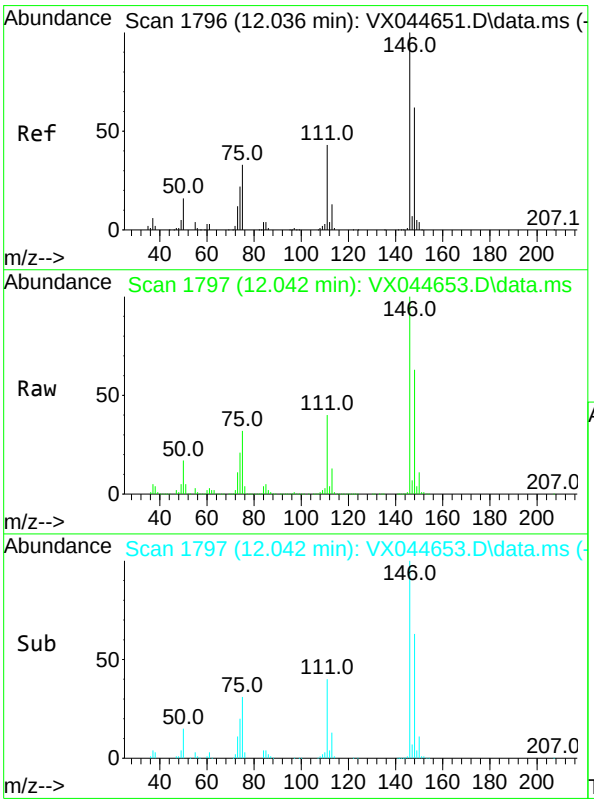

#87
1,3-Dichlorobenzene
Concen: 155.816 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:146 Resp: 521112

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.7 | 21.9 | 65.7 |
| 148 | 64.0 | 31.8 | 95.4 |

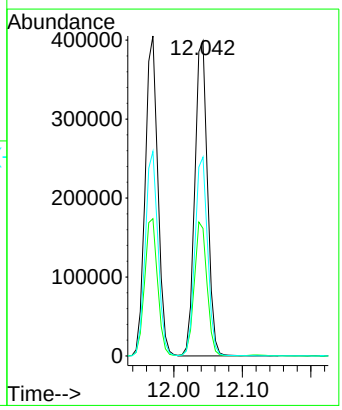


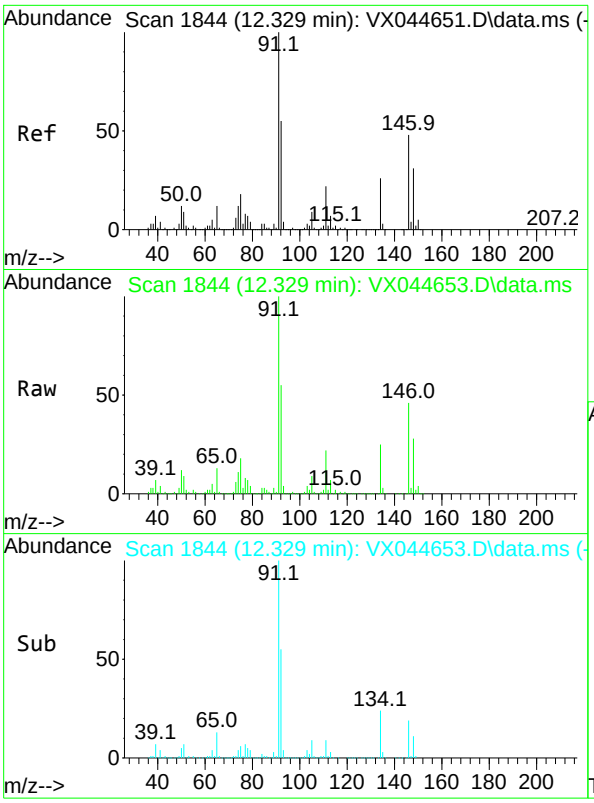




#88
1,4-Dichlorobenzene
Concen: 152.762 ug/l
RT: 12.042 min Scan# 1797
Delta R.T. 0.006 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:146 Resp: 516467

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.2 | 21.5 | 64.5 |
| 148 | 63.1 | 32.1 | 96.5 |



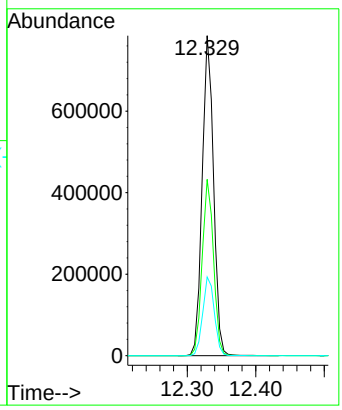


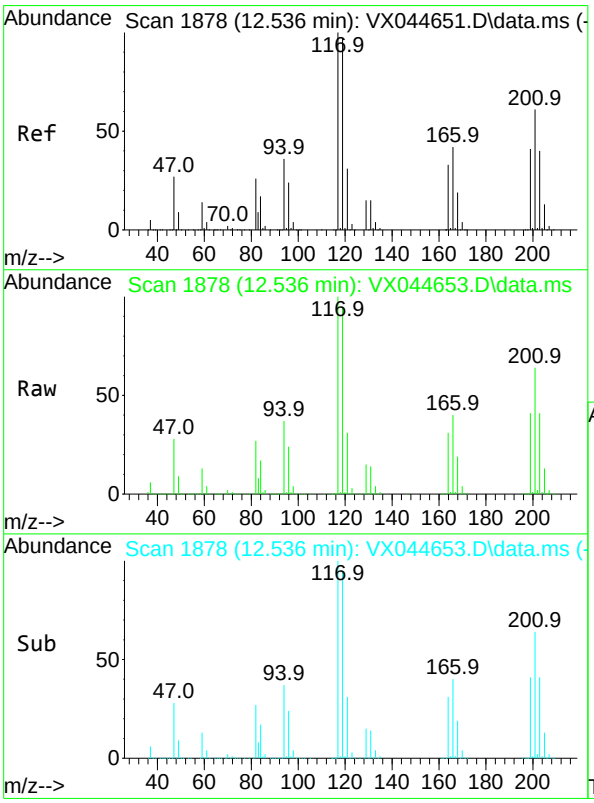

#89
n-Butylbenzene
Concen: 156.724 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion: 91 Resp: 904589

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.2 | 27.4 | 82.0 |
| 134 | 25.3 | 12.8 | 38.3 |

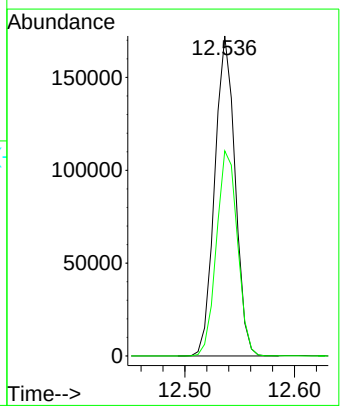


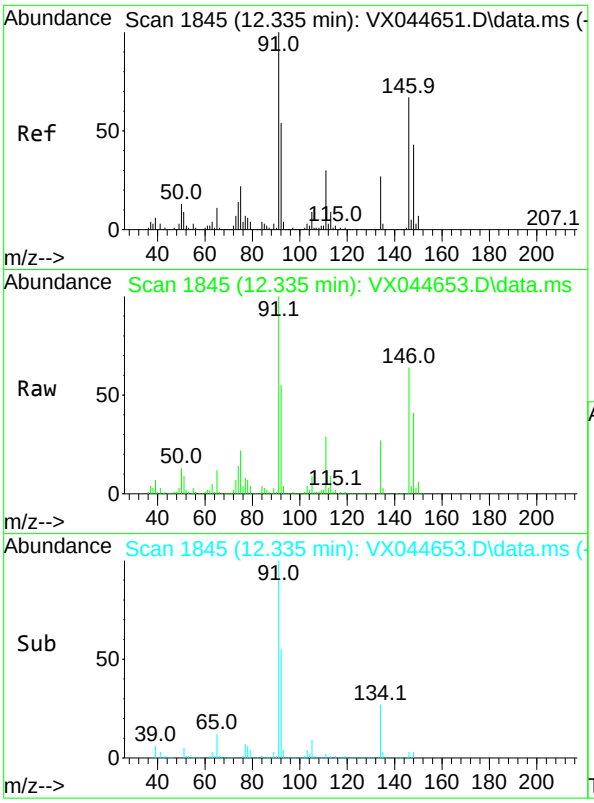




#90
Hexachloroethane
Concen: 146.455 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:117 Resp: 222866

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 66.1 | 32.3 | 96.8 |



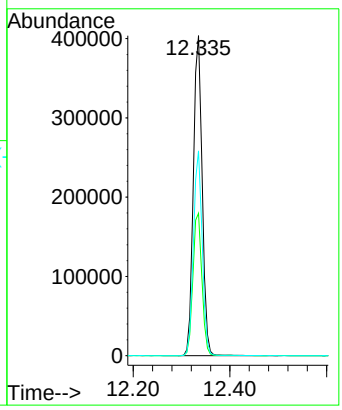


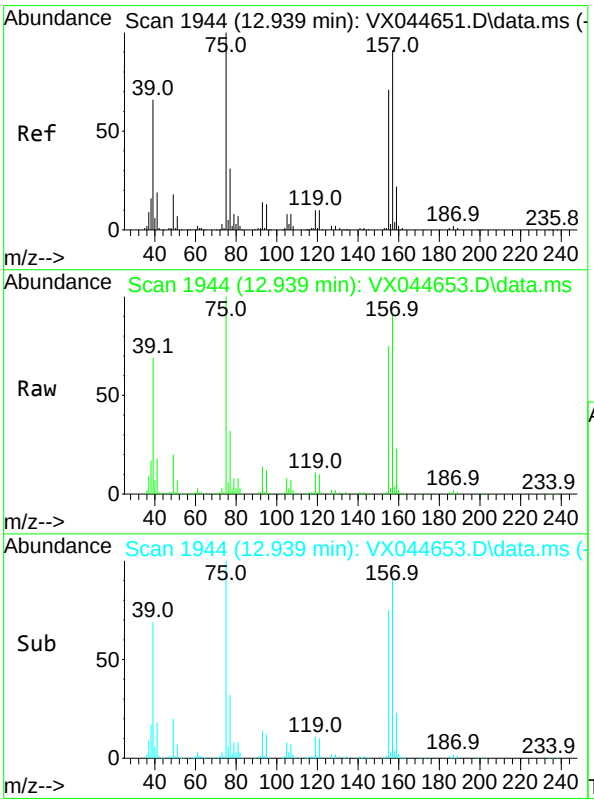

#91
1,2-Dichlorobenzene
Concen: 148.860 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:146 Resp: 511280

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.3 | 22.4 | 67.2 |
| 148 | 63.5 | 31.6 | 94.8 |

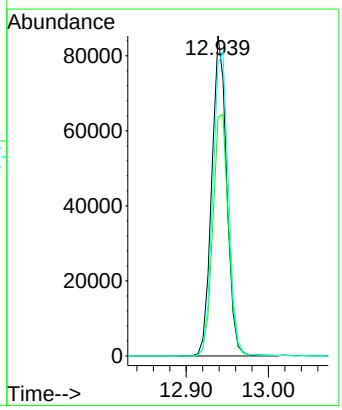


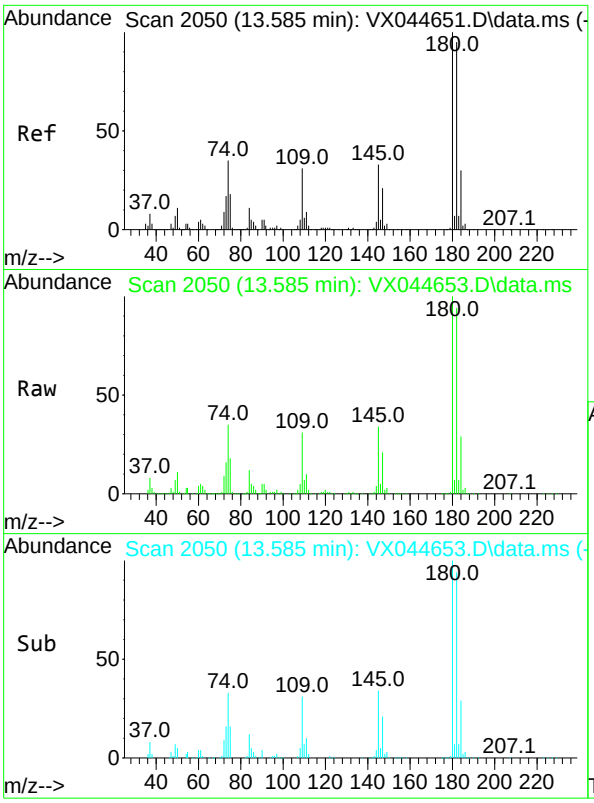




#92
1,2-Dibromo-3-Chloropropane
Concen: 154.709 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion: 75 Resp: 107815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 79.1 | 39.0 | 116.9 |
| 157 | 98.6 | 49.9 | 149.7 |



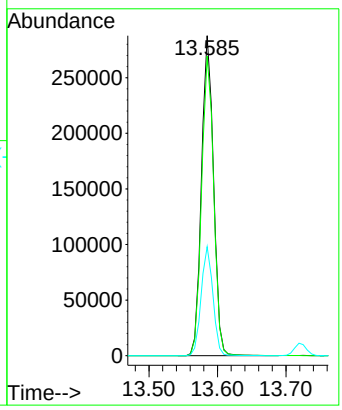


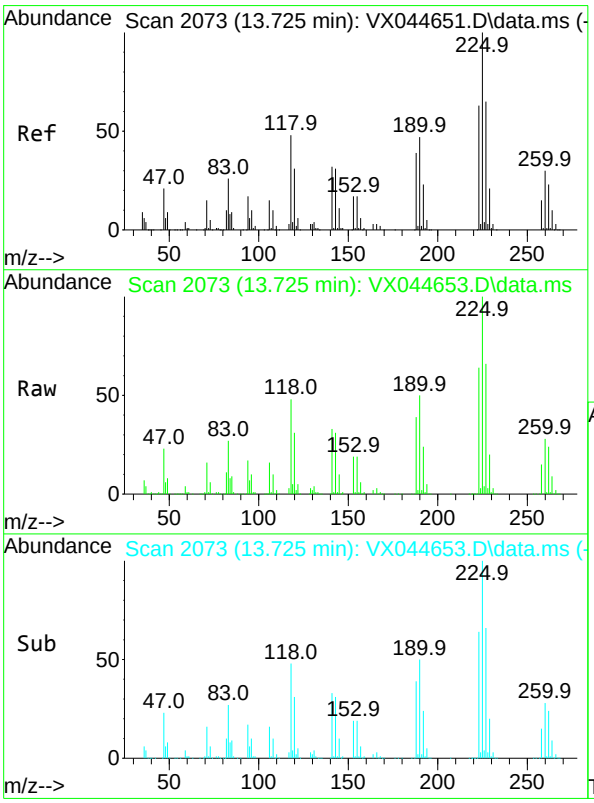

#93
1,2,4-Trichlorobenzene
Concen: 171.582 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:180 Resp: 352298

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 47.4 | 142.2 |
| 145 | 33.4 | 16.7 | 50.1 |

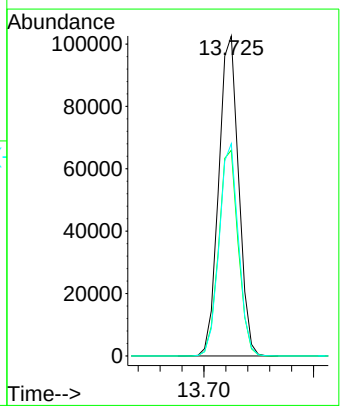


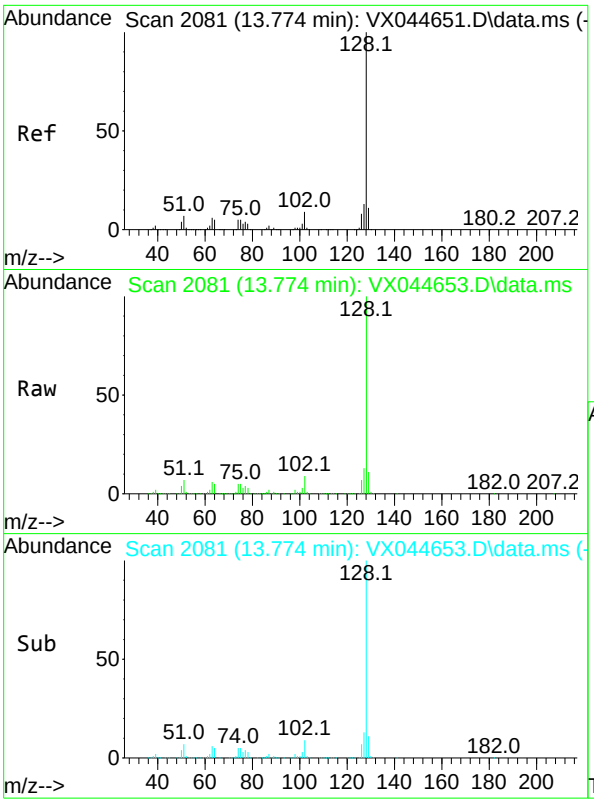




#94
Hexachlorobutadiene
Concen: 160.216 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:225 Resp: 129218

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 63.5 | 31.9 | 95.7 |
| 227 | 64.4 | 31.8 | 95.4 |



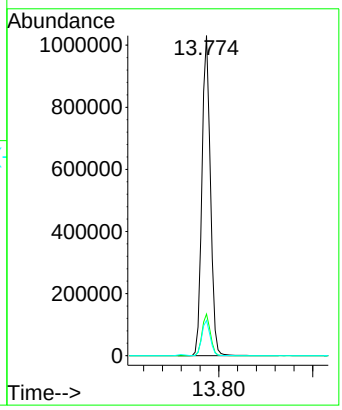


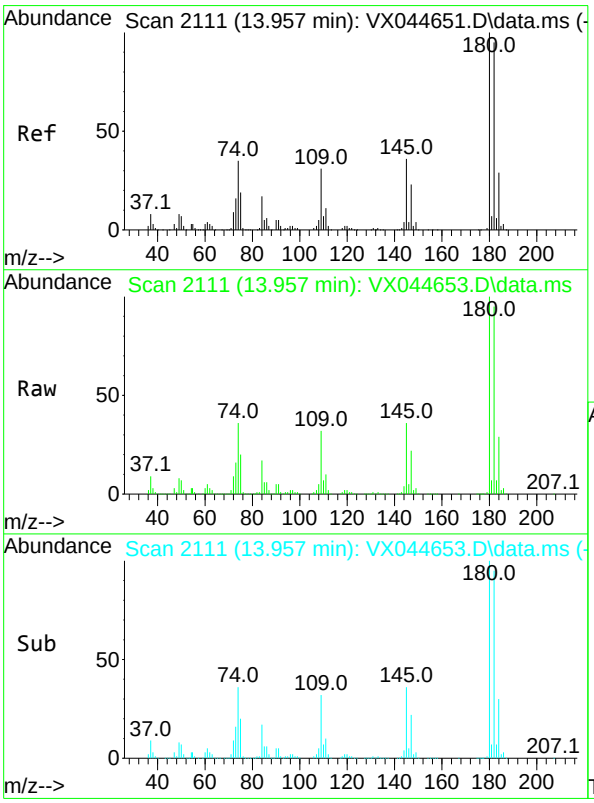

#95
Naphthalene
Concen: 162.361 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDICC150

Tgt Ion:128 Resp: 1285749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.8 | 10.3 | 15.5 |
| 129 | 10.9 | 8.7 | 13.1 |

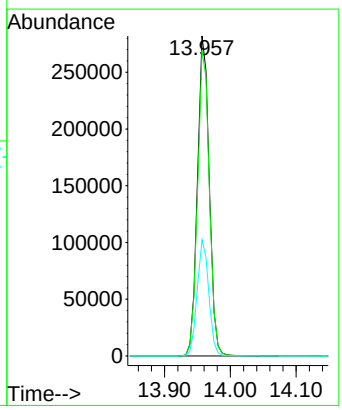



#96
1,2,3-Trichlorobenzene
Concen: 164.515 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044653.D
Acq: 15 Jan 2025 13:37

Tgt Ion:180 Resp: 350134

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.6 | 47.2 | 141.6 |
| 145 | 35.9 | 17.5 | 52.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Quant Time: Jan 30 04:57:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.537 | 168 | 179405 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 323521 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 266872 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 115489 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.940 | 65 | 141798 | 52.363 | ug/l | -0.01 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 104.720% | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 110333 | 53.683 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 107.360% | | | |
| 50) Toluene-d8 | 8.641 | 98 | 380624 | 53.113 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 106.220% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 140770 | 52.693 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 105.380% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 136518 | 56.549 | ug/l | 99 |
| 3) Chloromethane | 1.300 | 50 | 124691 | 47.763 | ug/l | 99 |
| 4) Vinyl Chloride | 1.374 | 62 | 128558 | 49.839 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 30815 | 50.031 | ug/l | 98 |
| 6) Chloroethane | 1.660 | 64 | 23473 | 49.624 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.861 | 101 | 147644 | 51.789 | ug/l | 98 |
| 8) Diethyl Ether | 2.130 | 74 | 54624 | 47.479 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 2.312 | 101 | 112018 | 52.271 | ug/l | 100 |
| 10) Methyl Iodide | 2.441 | 142 | 150245 | 51.350 | ug/l | 99 |
| 11) Tert butyl alcohol | 2.983 | 59 | 72932 | 120.809 | ug/l # | 82 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 107643 | 51.243 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 65602 | 230.919 | ug/l | 98 |
| 14) Allyl chloride | 2.654 | 41 | 197270 | 48.232 | ug/l | 100 |
| 15) Acrylonitrile | 3.062 | 53 | 307790 | 259.942 | ug/l | 99 |
| 16) Acetone | 2.386 | 43 | 285777 | 266.735 | ug/l | 100 |
| 17) Carbon Disulfide | 2.495 | 76 | 291339 | 50.827 | ug/l | 100 |
| 18) Methyl Acetate | 2.703 | 43 | 177037 | 53.560 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 383394 | 50.389 | ug/l | 99 |
| 20) Methylene Chloride | 2.782 | 84 | 119950 | 48.076 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 107127 | 48.846 | ug/l | 97 |
| 22) Diisopropyl ether | 3.757 | 45 | 360169 | 50.659 | ug/l | 93 |
| 23) Vinyl Acetate | 3.715 | 43 | 1583340 | 254.442 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 211436 | 50.150 | ug/l | 99 |
| 25) 2-Butanone | 4.550 | 43 | 423083 | 265.596 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.458 | 77 | 198981 | 48.697 | ug/l | 98 |
| 27) cis-1,2-Dichloroethene | 4.477 | 96 | 134711 | 48.831 | ug/l | 100 |
| 28) Bromochloromethane | 4.885 | 49 | 97608 | 49.545 | ug/l | 99 |
| 29) Tetrahydrofuran | 4.995 | 42 | 263635 | 256.578 | ug/l | 99 |
| 30) Chloroform | 5.080 | 83 | 214034 | 50.304 | ug/l | 99 |
| 31) Cyclohexane | 5.452 | 56 | 180309 | 52.878 | ug/l | 97 |
| 32) 1,1,1-Trichloroethane | 5.367 | 97 | 191114 | 48.859 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.678 | 75 | 143891 | 50.294 | ug/l | 99 |
| 37) Ethyl Acetate | 4.702 | 43 | 166128 | 54.526 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.659 | 117 | 161829 | 50.287 | ug/l | 100 |
| 39) Methylcyclohexane | 7.366 | 83 | 199470 | 52.520 | ug/l | 98 |
| 40) Benzene | 6.025 | 78 | 448684 | 50.610 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Quant Time: Jan 30 04:57:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.910 | 41 | 91151 | 51.342 | ug/l | | 100 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 164707 | 50.902 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.330 | 43 | 285121 | 50.871 | ug/l | | 100 |
| 44) Trichloroethene | 7.116 | 130 | 110588 | 51.887 | ug/l | | 99 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 113836 | 51.011 | ug/l | | 97 |
| 46) Dibromomethane | 7.574 | 93 | 84838 | 49.939 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.811 | 83 | 174297 | 50.029 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.683 | 41 | 137603 | 52.890 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.665 | 88 | 53851 | 992.095 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 779855 | 251.778 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 271071 | 49.955 | ug/l | | 98 |
| 53) t-1,3-Dichloropropene | 8.970 | 75 | 184653 | 51.300 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 199240 | 51.049 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 109957 | 50.085 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.110 | 69 | 190986 | 50.595 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 187407 | 50.129 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.232 | 63 | 466737 | 251.852 | ug/l | | 100 |
| 59) 2-Hexanone | 9.427 | 43 | 576549 | 253.010 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 128727 | 49.957 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 114330 | 49.693 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 89460 | 53.384 | ug/l | | 97 |
| 65) Chlorobenzene | 10.073 | 112 | 287202 | 50.667 | ug/l | | 98 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 105329 | 51.129 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 511560 | 51.721 | ug/l | | 98 |
| 68) m/p-Xylenes | 10.299 | 106 | 376743 | 102.645 | ug/l | | 100 |
| 69) o-Xylene | 10.640 | 106 | 186995 | 50.378 | ug/l | | 99 |
| 70) Styrene | 10.652 | 104 | 308018 | 51.398 | ug/l | | 100 |
| 71) Bromoform | 10.799 | 173 | 86512 | 51.597 | ug/l | # | 99 |
| 73) Isopropylbenzene | 10.957 | 105 | 474051 | 50.246 | ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 233338 | 50.177 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 159673 | 49.002 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 191485 | 68.320 | ug/l | | 79 |
| 77) Bromobenzene | 11.195 | 156 | 109171 | 49.506 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 538048 | 51.712 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 333891 | 49.678 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.445 | 105 | 382880 | 49.852 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 63708 | 51.981 | ug/l | | 100 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 373655 | 50.750 | ug/l | | 100 |
| 83) tert-Butylbenzene | 11.713 | 119 | 397191 | 49.459 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 388010 | 49.714 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 477595 | 51.076 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 392123 | 51.028 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 196862 | 51.476 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 193343 | 50.011 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 350704 | 53.136 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 84427 | 48.518 | ug/l | | 100 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 194138 | 49.430 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 39583 | 49.672 | ug/l | | 99 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 125286 | 53.362 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 48702 | 52.807 | ug/l | | 99 |
| 95) Naphthalene | 13.774 | 128 | 479024 | 52.899 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 128038 | 52.611 | ug/l | | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Quant Time: Jan 30 04:57:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

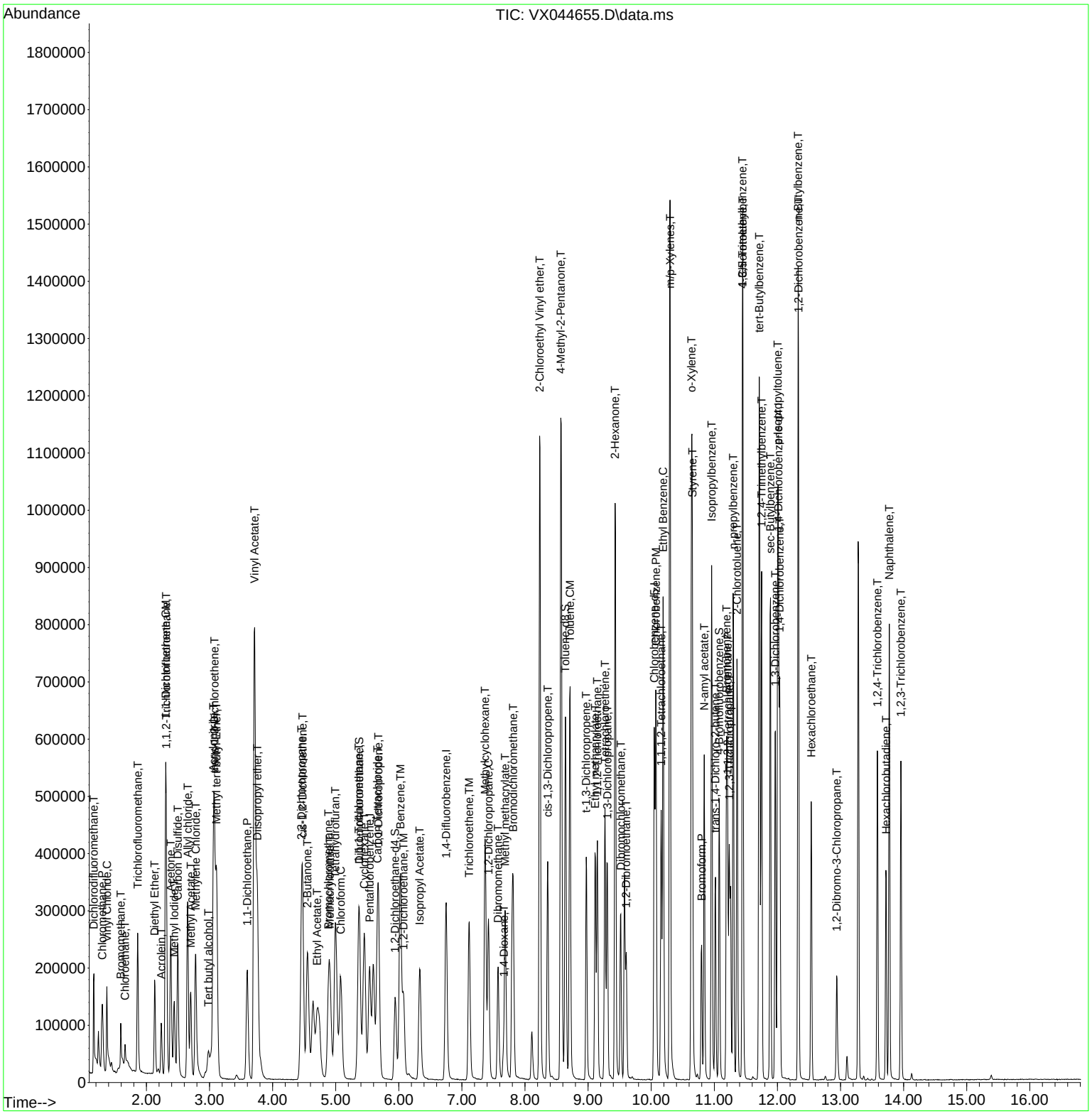
| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|

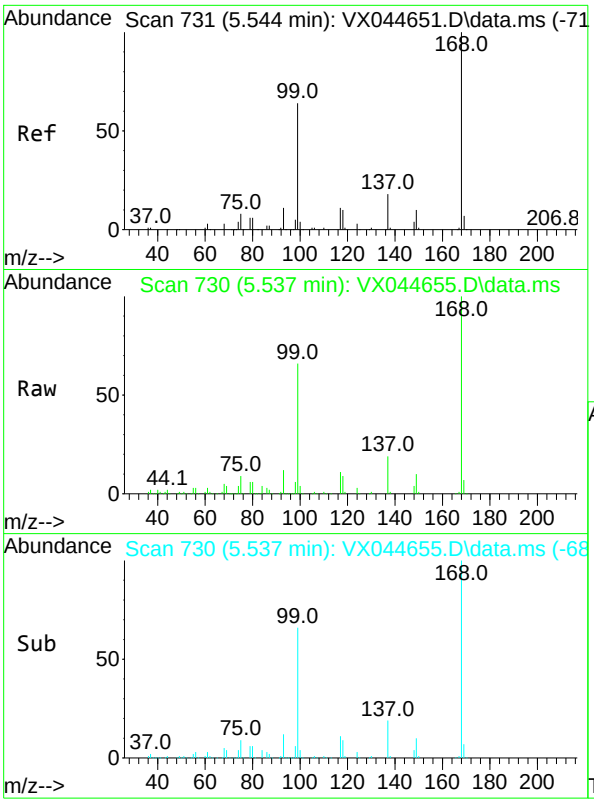
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX011525\
Data File : VX044655.D
Acq On : 15 Jan 2025 15:15
Operator : JC/MD
Sample : VSTDICV050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 10 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Quant Time: Jan 30 04:57:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



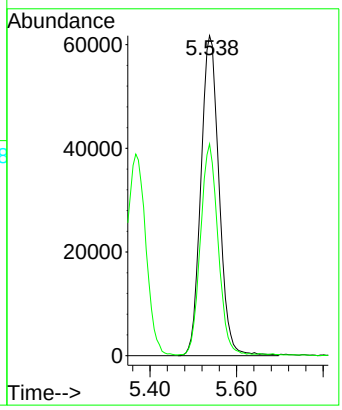


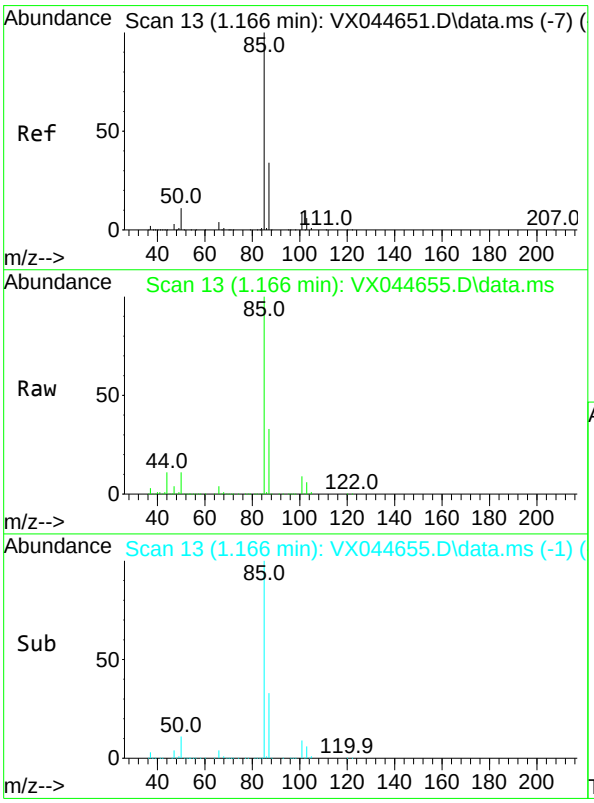

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:168 Resp: 179405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 65.9 | 51.1 | 76.7 |

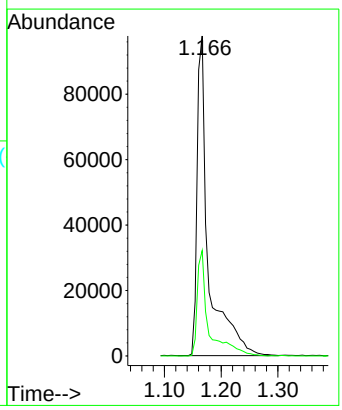


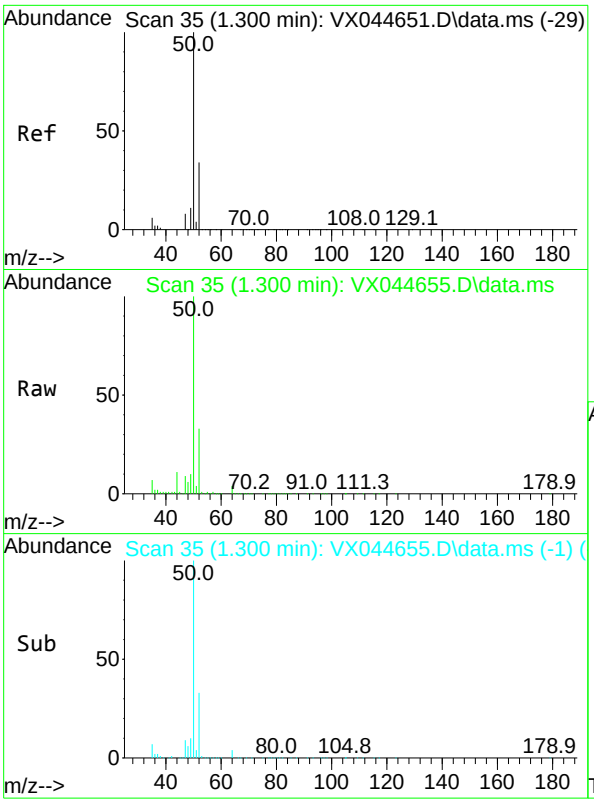




#2
Dichlorodifluoromethane
Concen: 56.549 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 85 Resp: 136518

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.0 | 16.8 | 50.4 |



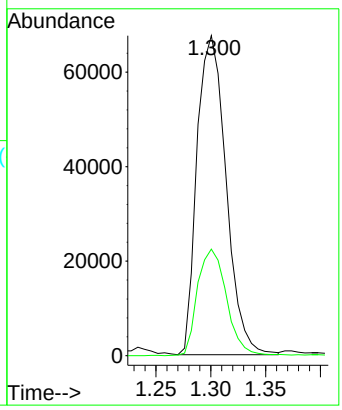


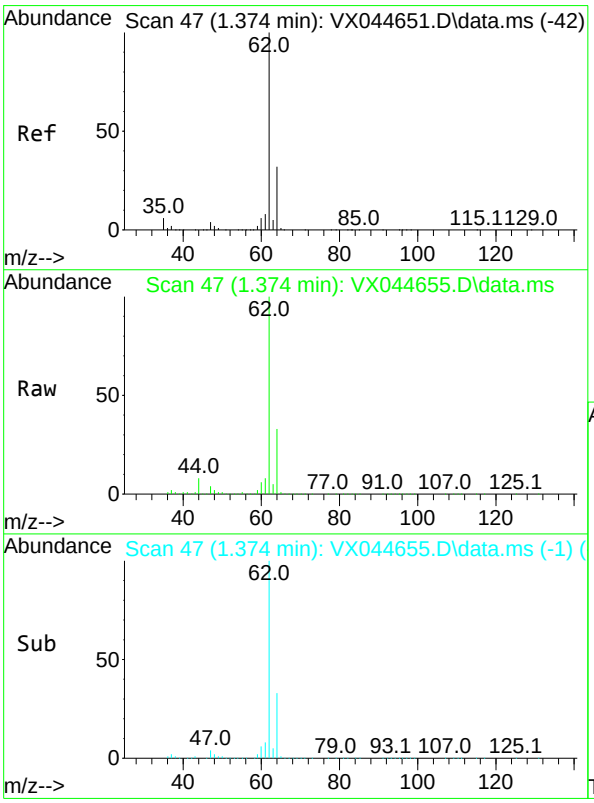

#3
Chloromethane
Concen: 47.763 ug/l
RT: 1.300 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 50 Resp: 124691

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.3 | 27.0 | 40.4 |

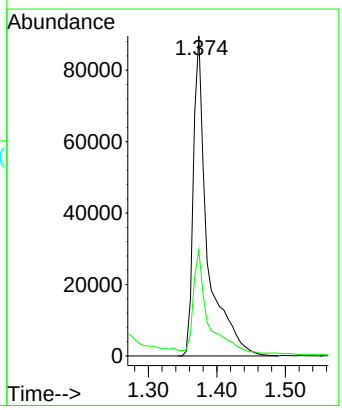


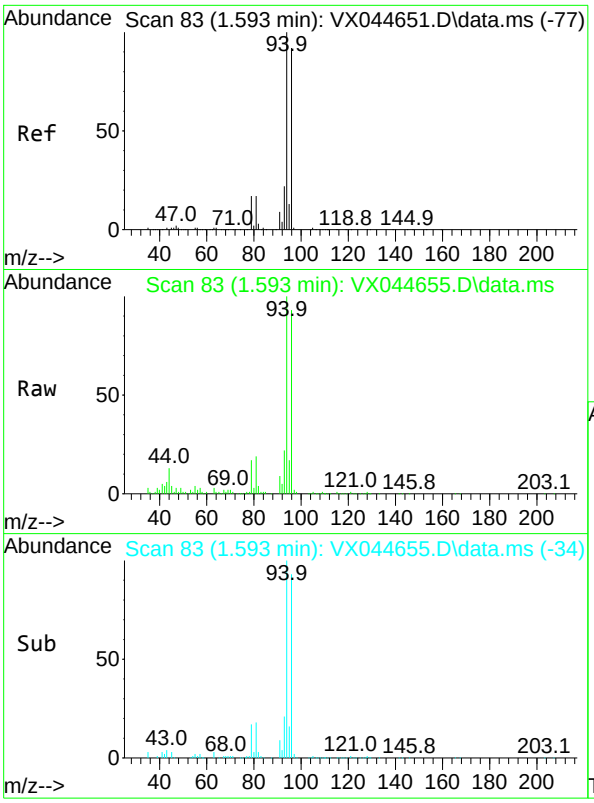




#4
Vinyl Chloride
Concen: 49.839 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 62 Resp: 128558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.2 | 26.6 | 39.8 |



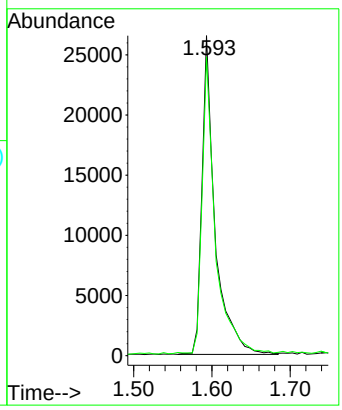


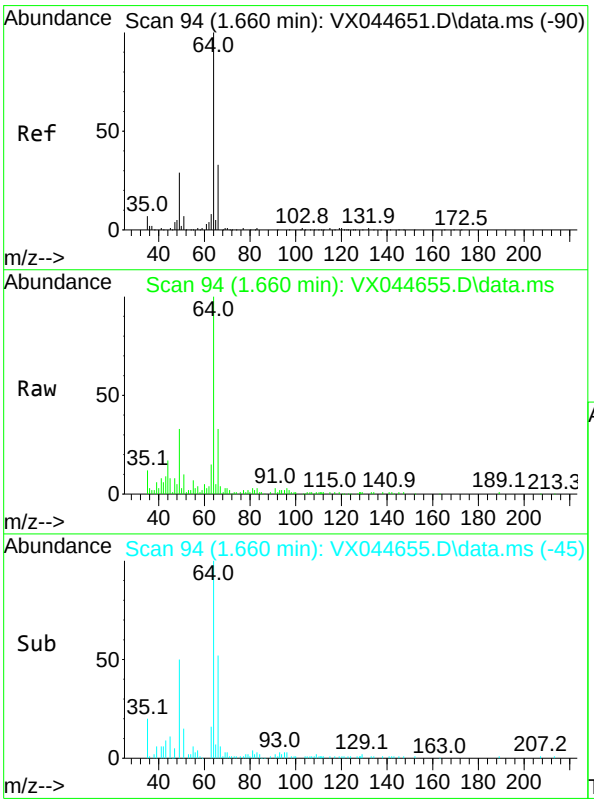

#5
Bromomethane
Concen: 50.031 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 94 Resp: 30815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 92.8 | 72.8 | 109.2 |

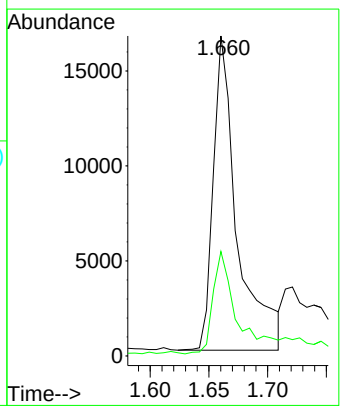


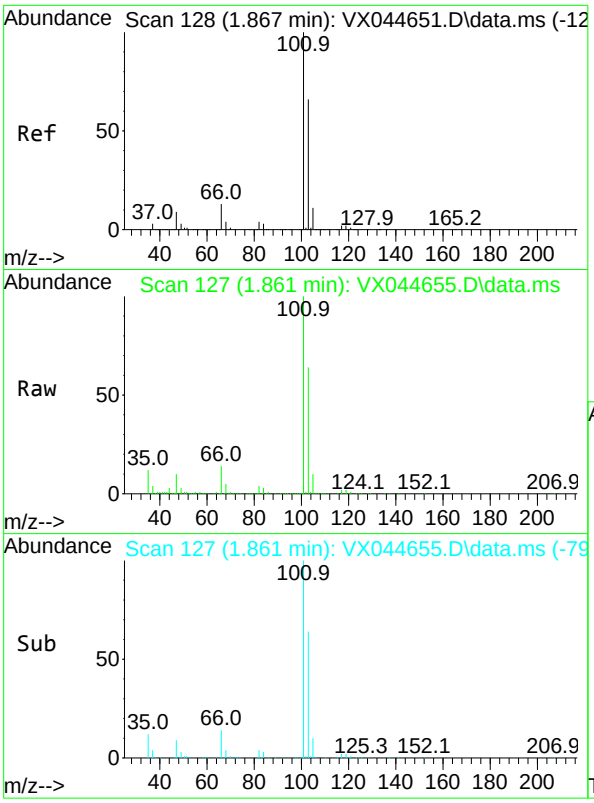




#6
Chloroethane
Concen: 49.624 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 64 Resp: 23473

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.2 | 26.6 | 39.8 |



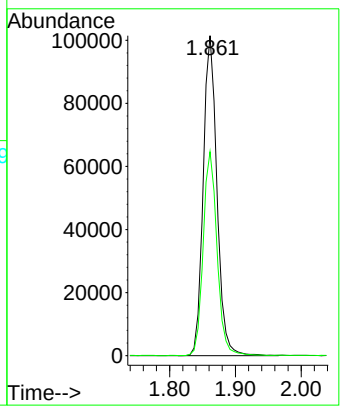


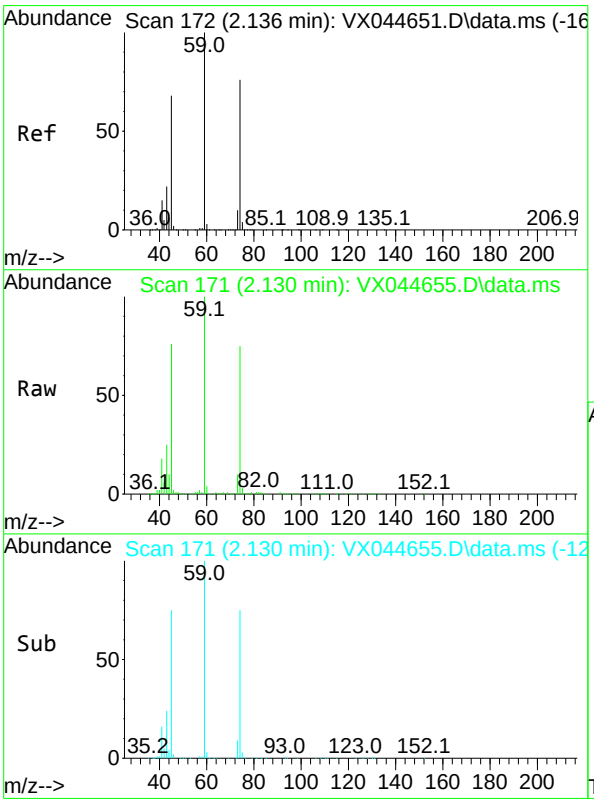

#7
Trichlorofluoromethane
Concen: 51.789 ug/l
RT: 1.861 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:101 Resp: 147644

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.7 | 52.5 | 78.7 |

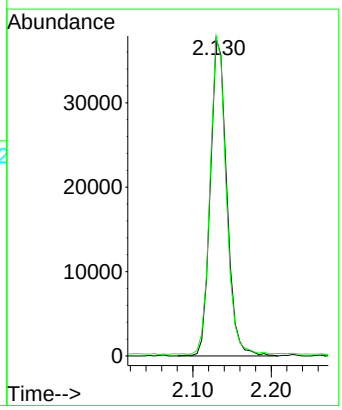


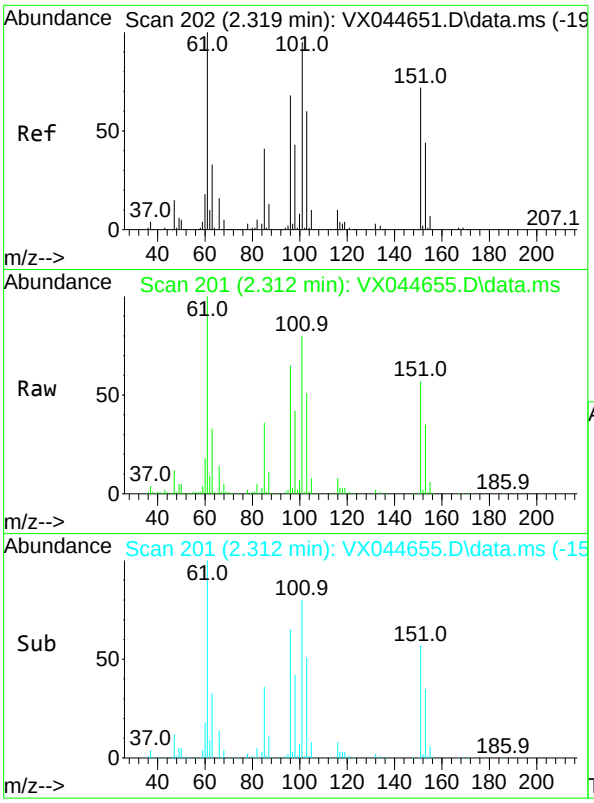




#8
Diethyl Ether
Concen: 47.479 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 74 Resp: 54624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.4 | 47.1 | 141.3 |



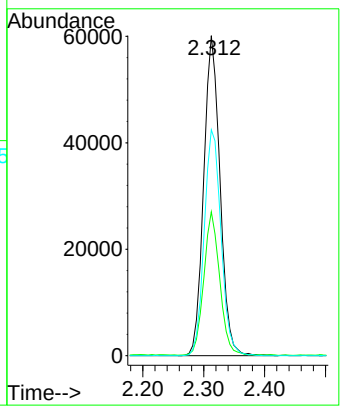


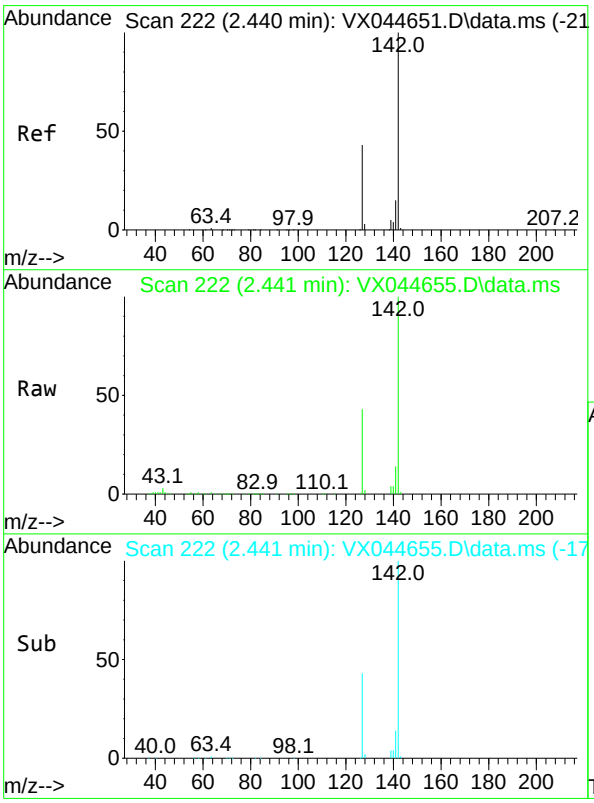

#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.271 ug/l
RT: 2.312 min Scan# 2(
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:101 Resp: 112018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.6 | 35.3 | 52.9 |
| 151 | 72.6 | 58.2 | 87.4 |

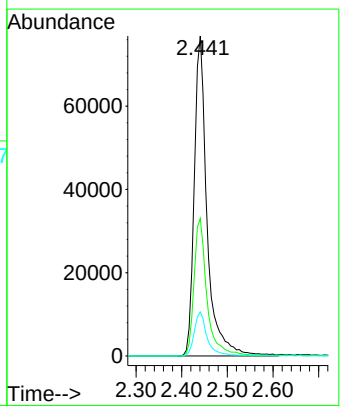


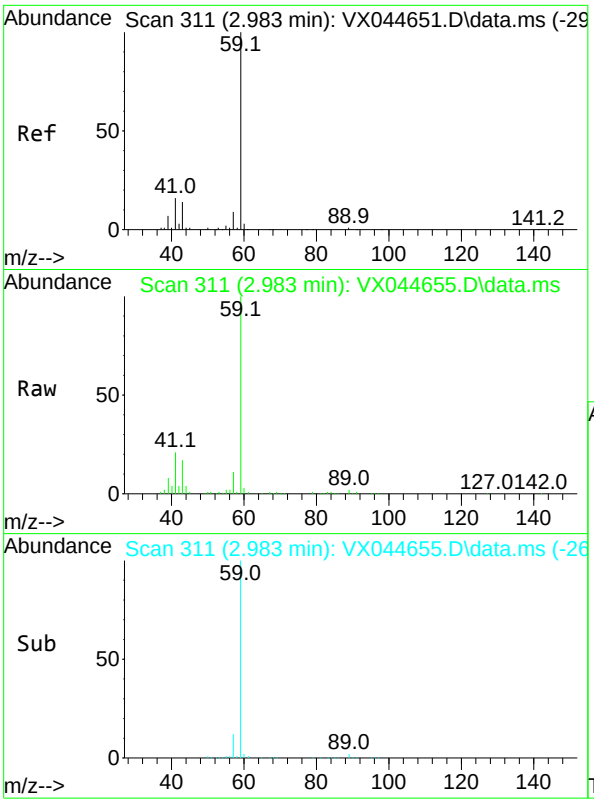




#10
Methyl Iodide
Concen: 51.350 ug/l
RT: 2.441 min Scan# 222
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:142 Resp: 150245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 43.6 | 35.0 | 52.4 |
| 141 | 13.8 | 11.7 | 17.5 |



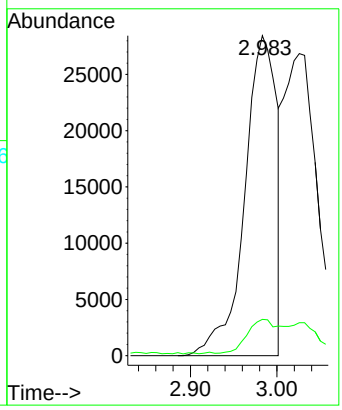


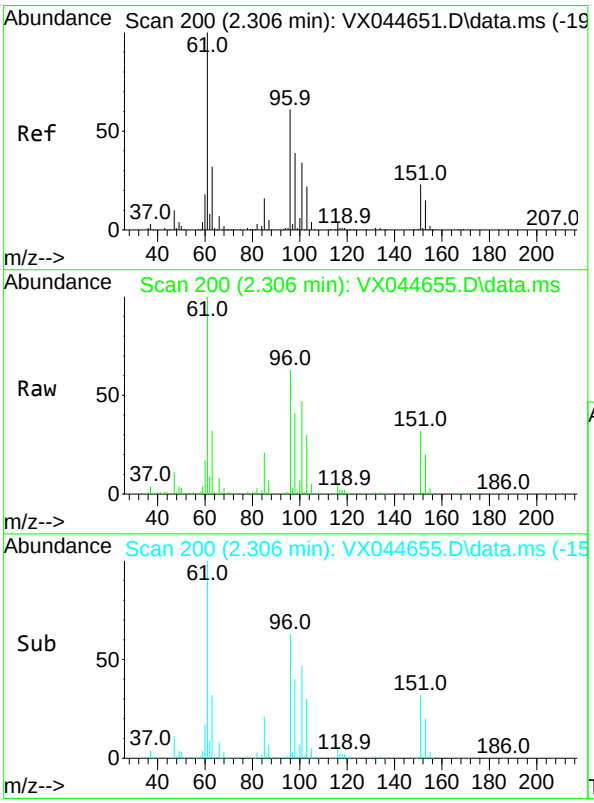

#11
Tert butyl alcohol
Concen: 120.809 ug/l
RT: 2.983 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 59 Resp: 72932

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.8 | 3.9 | 5.9# |

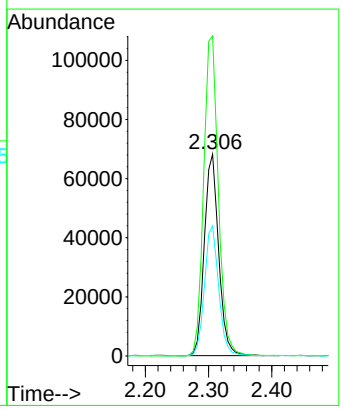


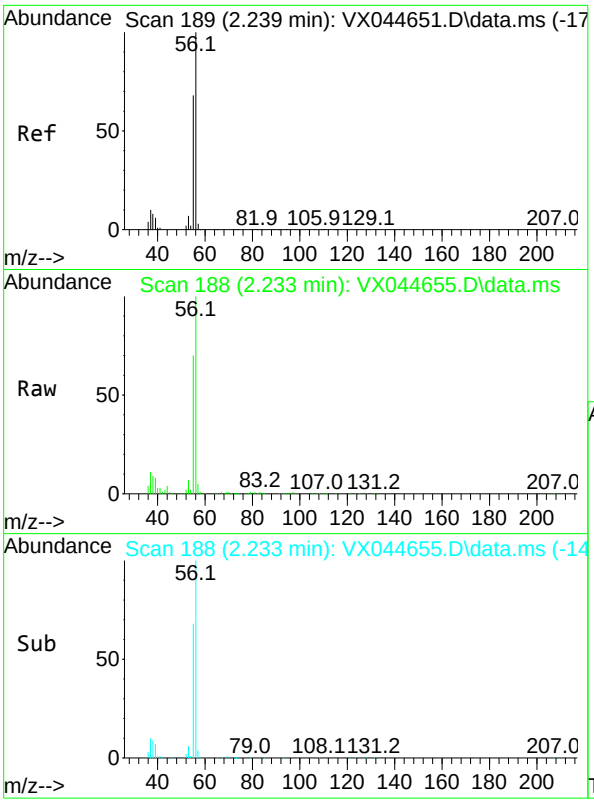




#12
1,1-Dichloroethene
Concen: 51.243 ug/l
RT: 2.306 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 96 Resp: 107643

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.8 | 131.1 | 196.7 |
| 98 | 64.3 | 51.2 | 76.8 |



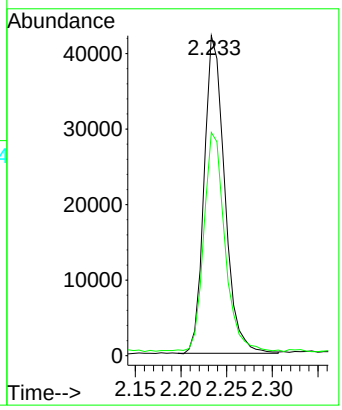


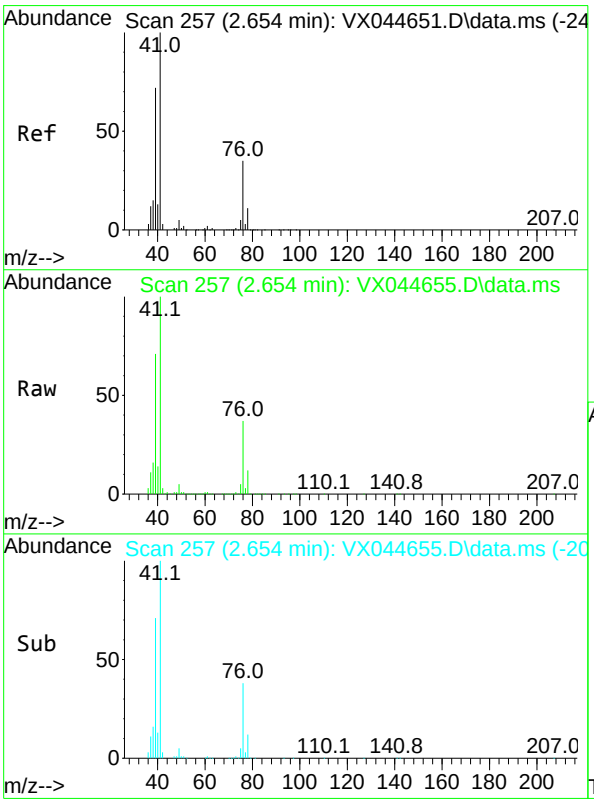

#13
Acrolein
Concen: 230.919 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 56 Resp: 65602

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 70.6 | 55.1 | 82.7 |

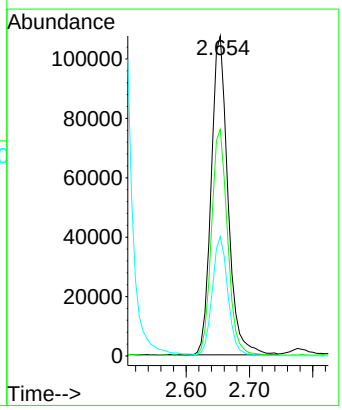


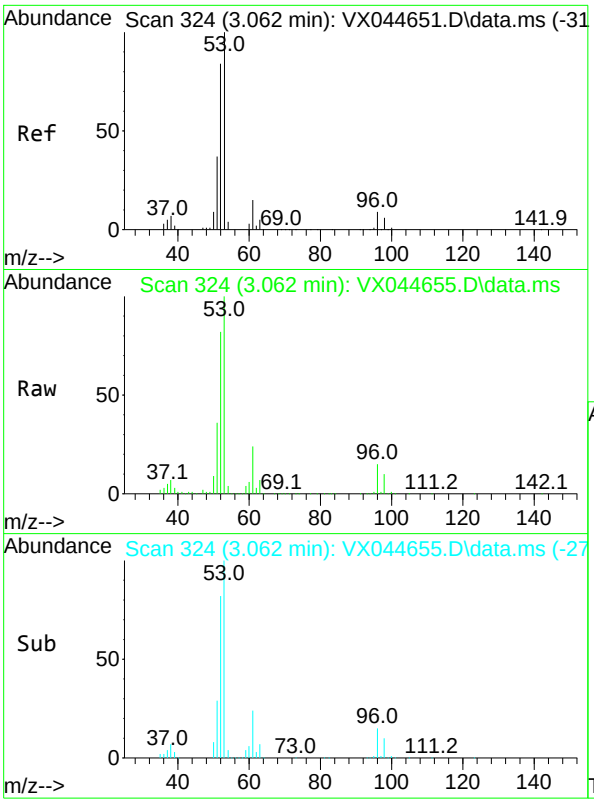




#14
Allyl chloride
Concen: 48.232 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 41 Resp: 197270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 68.5 | 54.9 | 82.3 |
| 76 | 35.6 | 28.4 | 42.6 |



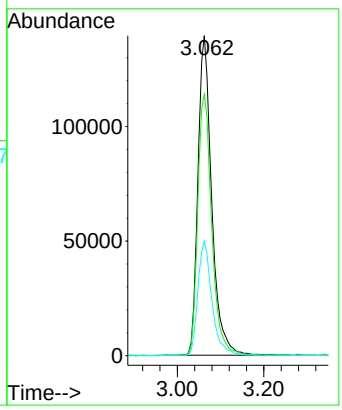


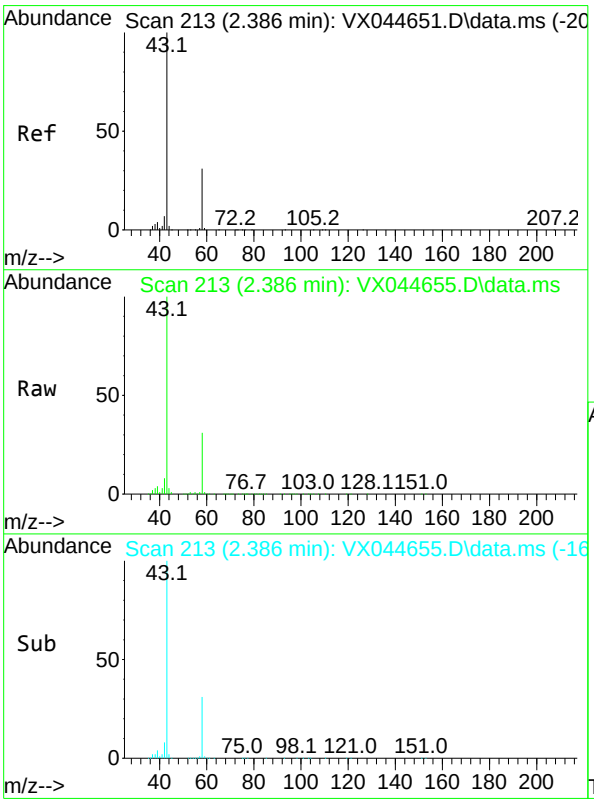

#15
Acrylonitrile
Concen: 259.942 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 53 Resp: 307790

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.2 | 66.0 | 99.0 |
| 51 | 36.2 | 28.9 | 43.3 |

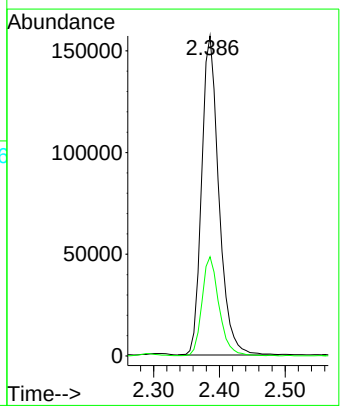


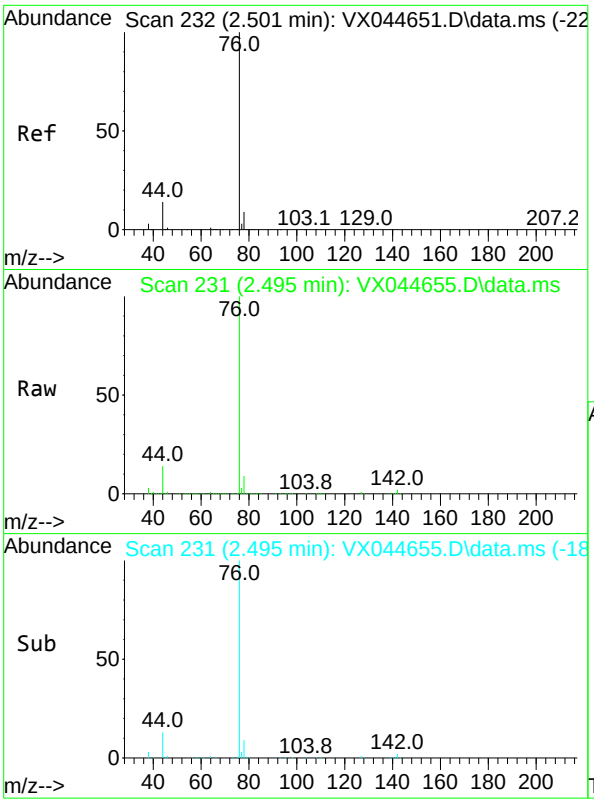




#16
Acetone
Concen: 266.735 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 285777

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.0 | 24.6 | 37.0 |



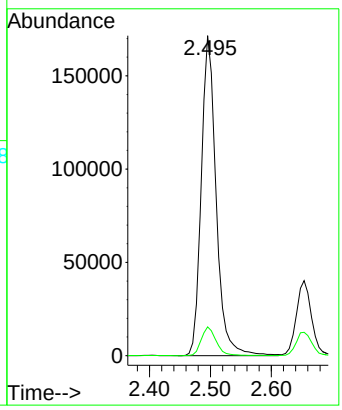


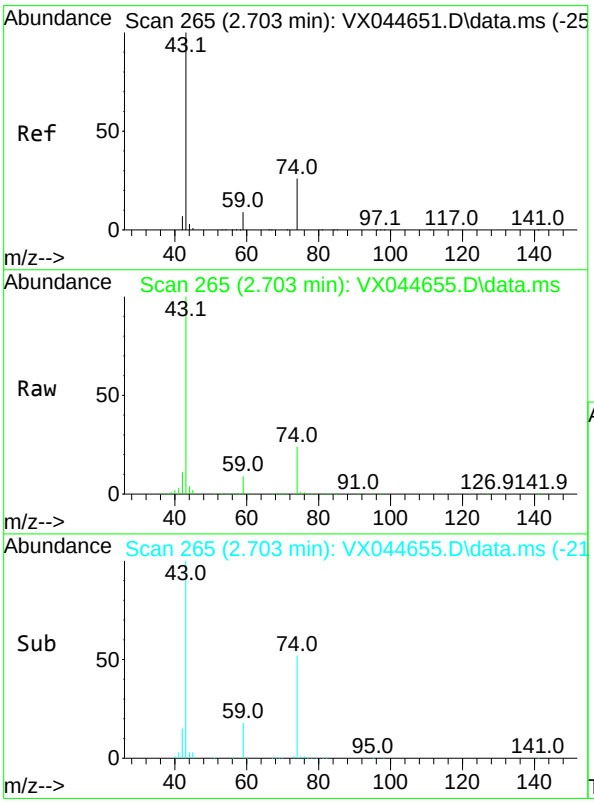

#17
Carbon Disulfide
Concen: 50.827 ug/l
RT: 2.495 min Scan# 2
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 76 Resp: 291339

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.0 | 7.1 | 10.7 |

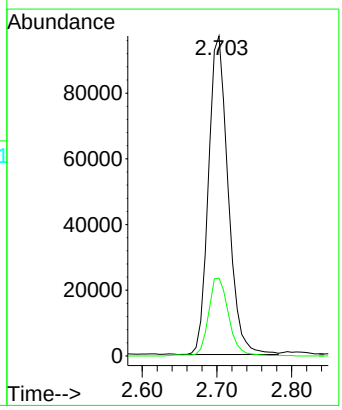


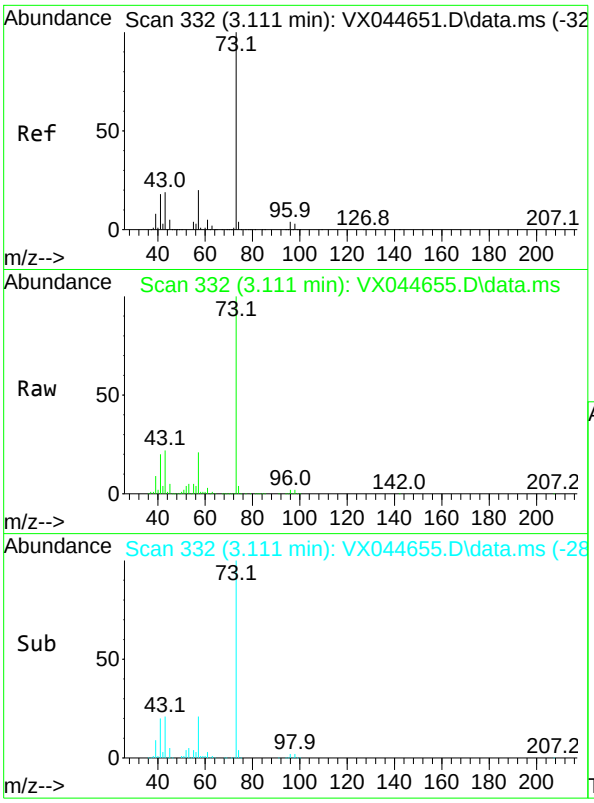




#18
Methyl Acetate
Concen: 53.560 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 177037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 25.4 | 19.8 | 29.8 |



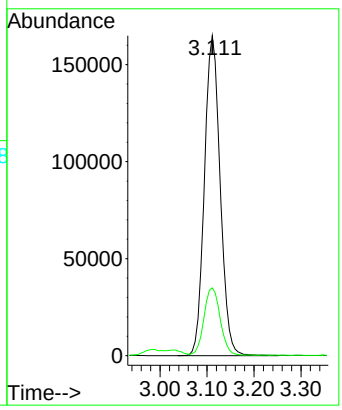


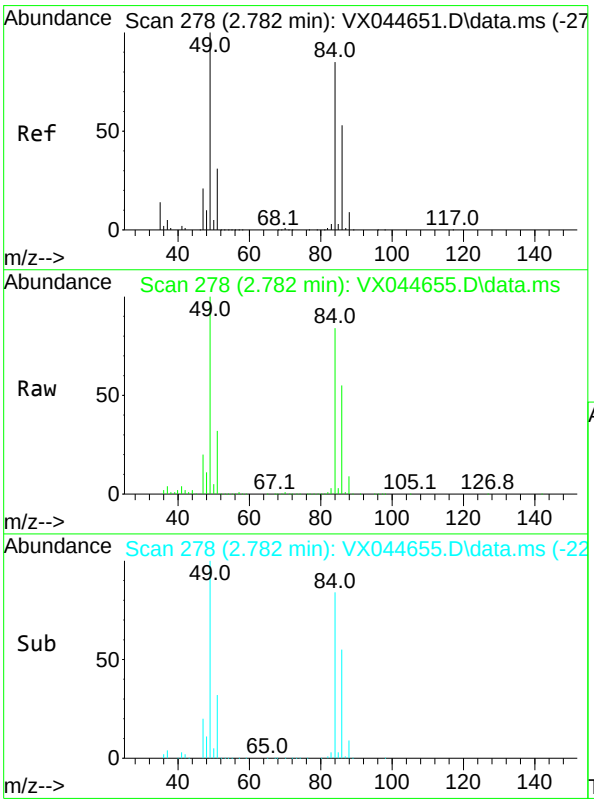

#19
Methyl tert-butyl Ether
Concen: 50.389 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 73 Resp: 383394

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.1 | 17.4 | 26.0 |

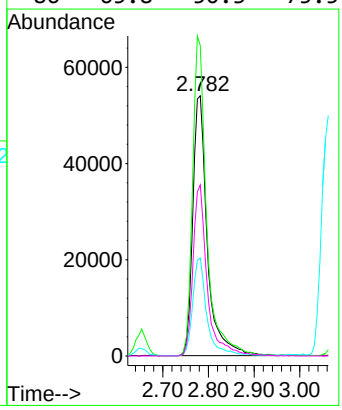


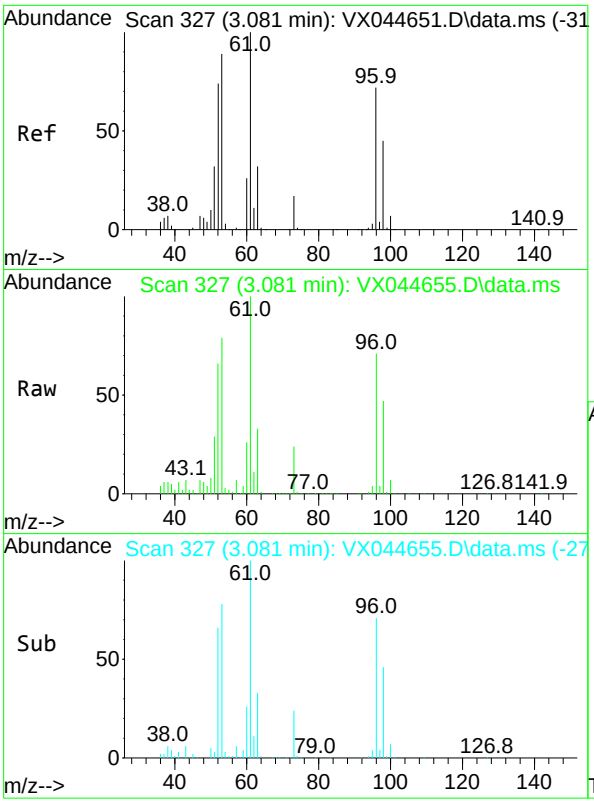




#20
Methylene Chloride
Concen: 48.076 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 84 Resp: 119950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.5 | 94.2 | 141.4 |
| 51 | 37.6 | 28.8 | 43.2 |
| 86 | 65.8 | 50.3 | 75.5 |



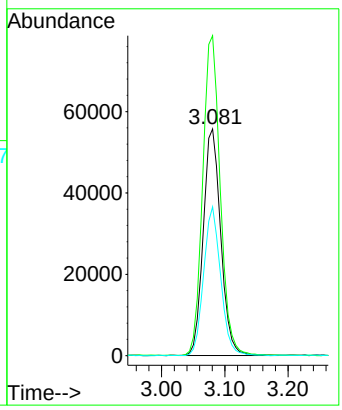


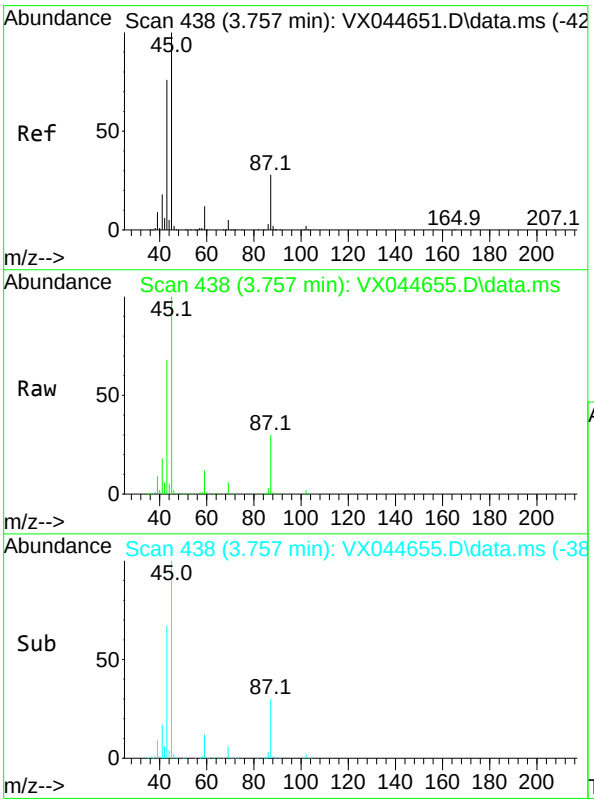

#21
trans-1,2-Dichloroethene
Concen: 48.846 ug/l
RT: 3.081 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 96 Resp: 107127

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 141.2 | 111.0 | 166.6 |
| 98 | 65.6 | 50.2 | 75.2 |

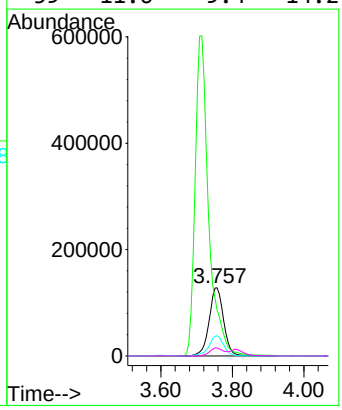


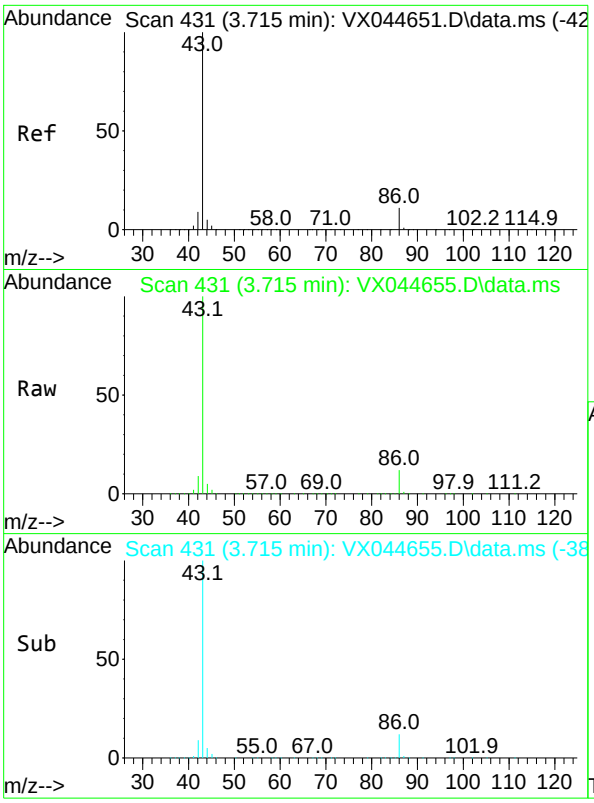




#22
Diisopropyl ether
Concen: 50.659 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 45 Resp: 360169

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 67.3 | 61.0 | 91.6 |
| 87 | 29.5 | 22.7 | 34.1 |
| 59 | 11.6 | 9.4 | 14.2 |



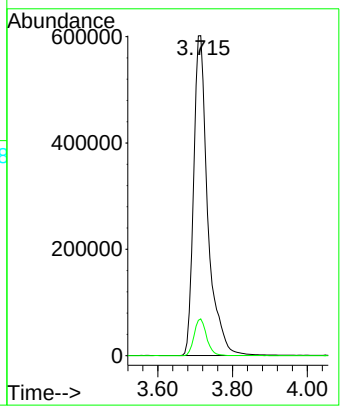


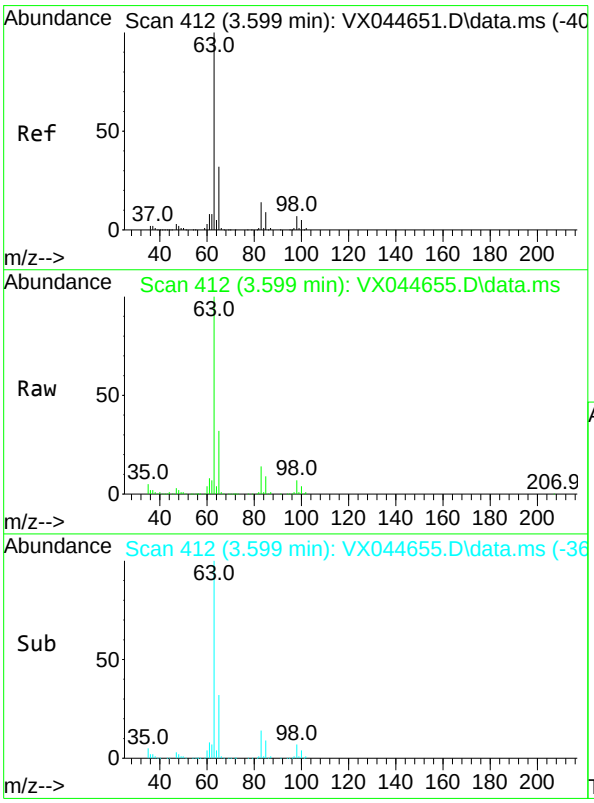

#23
Vinyl Acetate
Concen: 254.442 ug/l
RT: 3.715 min Scan# 4
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 43 Resp: 1583340

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.5 | 8.9 | 13.3 |

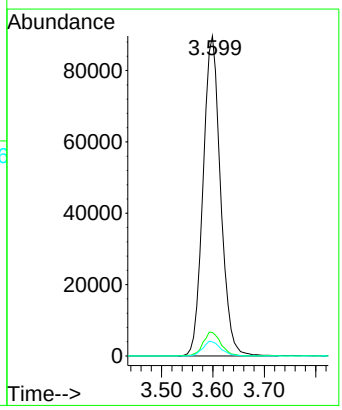


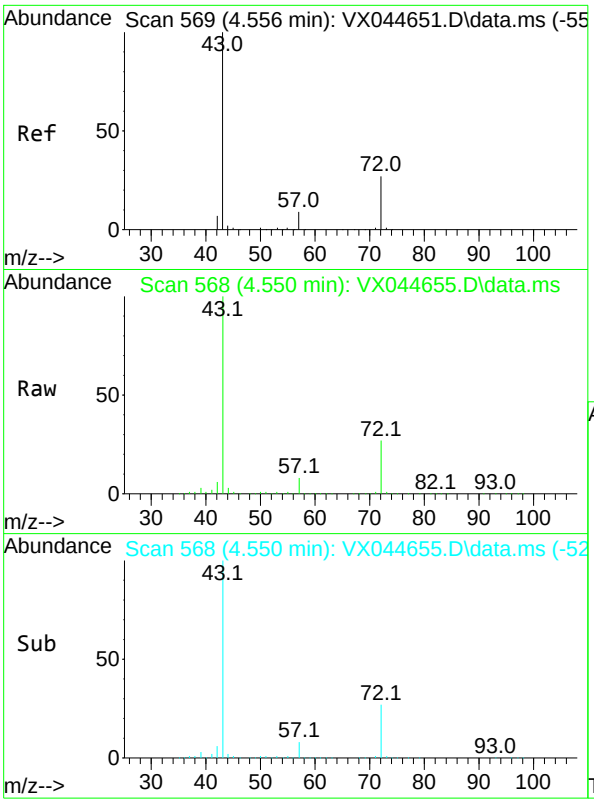




#24
1,1-Dichloroethane
Concen: 50.150 ug/l
RT: 3.599 min Scan# 412
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 63 Resp: 211436

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.6 | 10.9 |
| 100 | 4.4 | 2.5 | 7.5 |



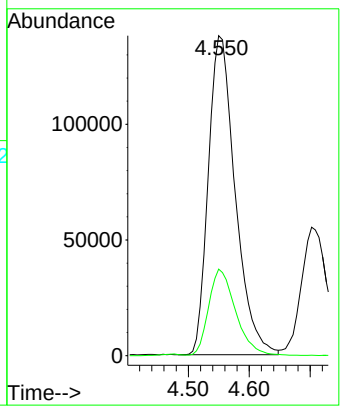


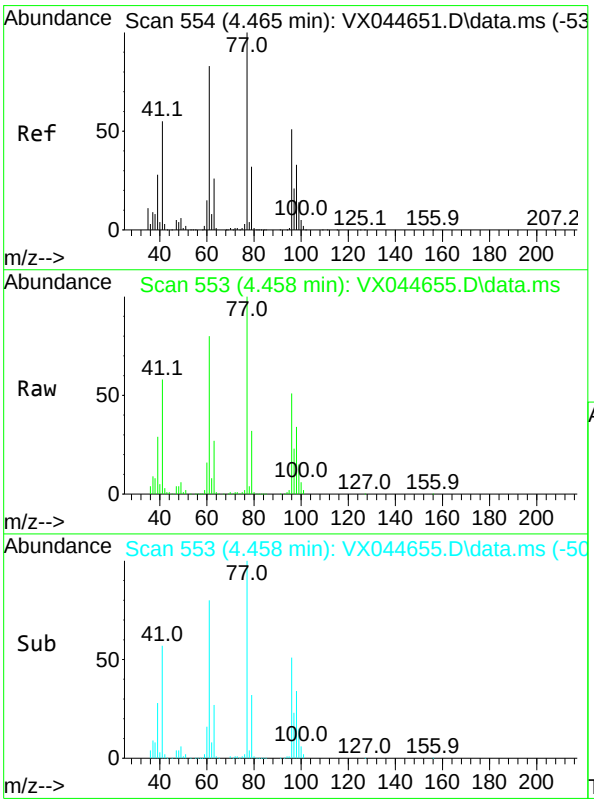

#25
2-Butanone
Concen: 265.596 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 43 Resp: 423083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.8 | 21.7 | 32.5 |

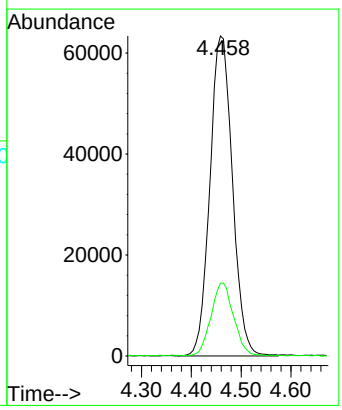


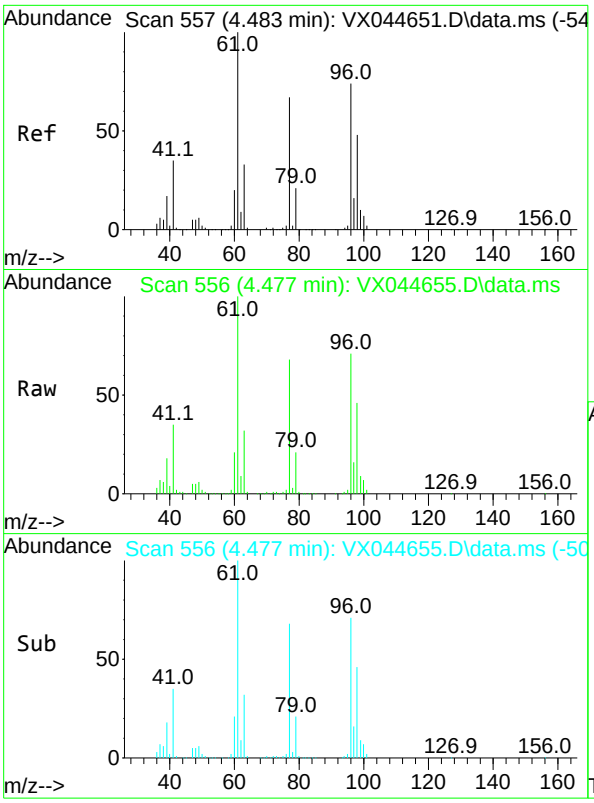




#26
2,2-Dichloropropane
Concen: 48.697 ug/l
RT: 4.458 min Scan# 553
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 77 Resp: 198981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 22.6 | 10.9 | 32.6 |



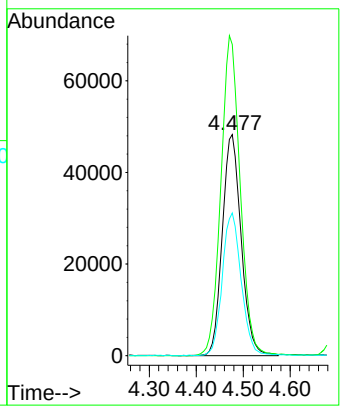


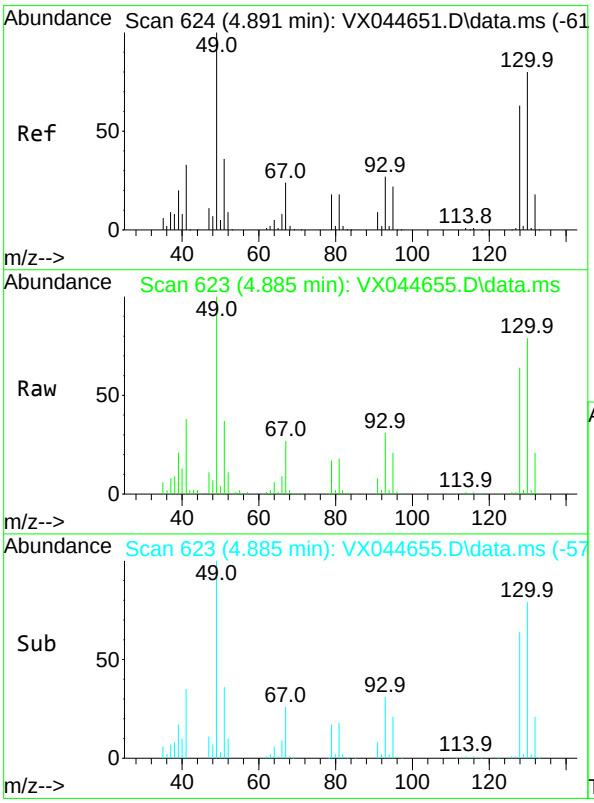

#27
cis-1,2-Dichloroethene
Concen: 48.831 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 96 Resp: 134711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 148.4 | 0.0 | 296.0 |
| 98 | 64.7 | 0.0 | 130.0 |

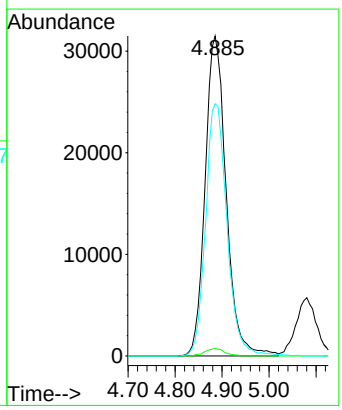


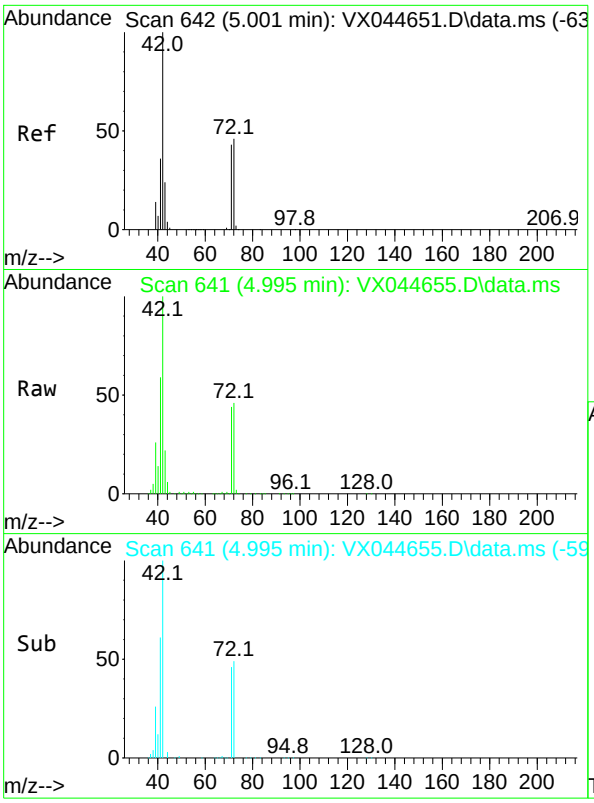




#28
Bromochloromethane
Concen: 49.545 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 49 Resp: 97608

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.2 | 0.0 | 4.4 |
| 130 | 80.4 | 63.4 | 95.2 |



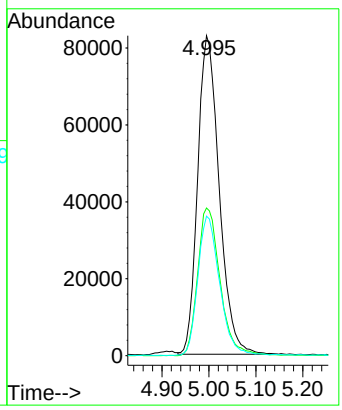


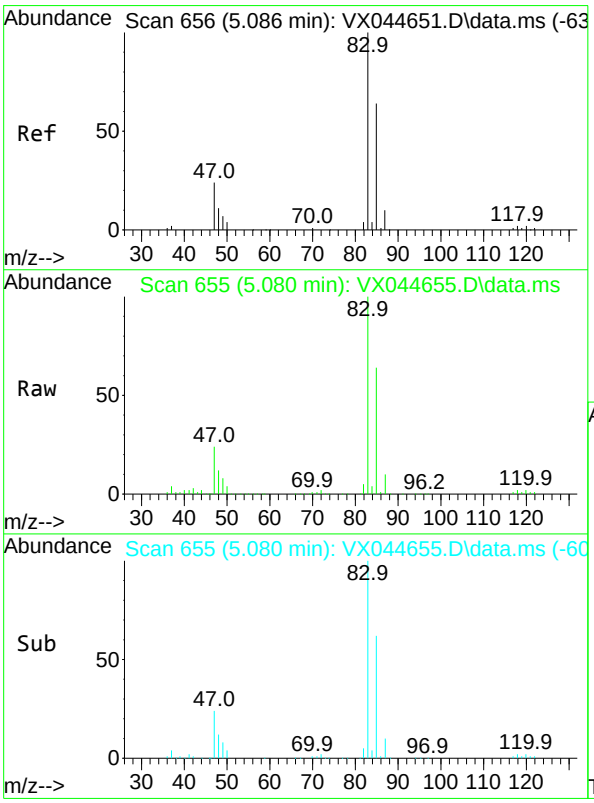

#29
Tetrahydrofuran
Concen: 256.578 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 42 Resp: 263635

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 48.3 | 38.2 | 57.4 |
| 71 | 44.3 | 35.3 | 52.9 |

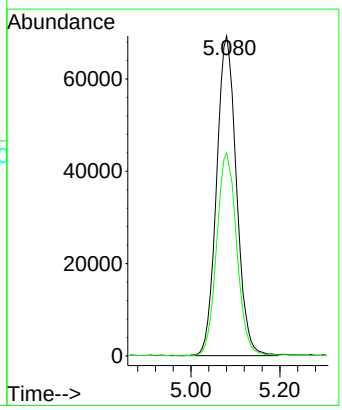


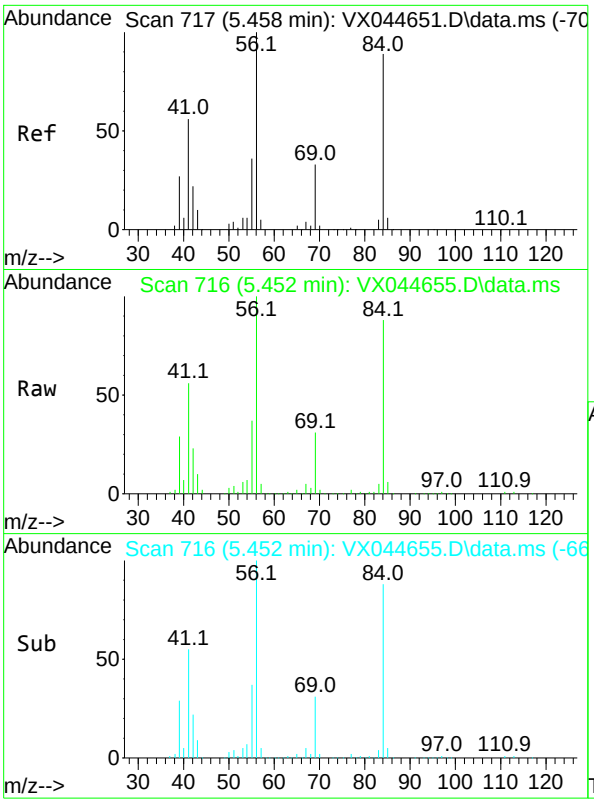




#30
Chloroform
Concen: 50.304 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 83 Resp: 214034

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.5 | 51.2 | 76.8 |



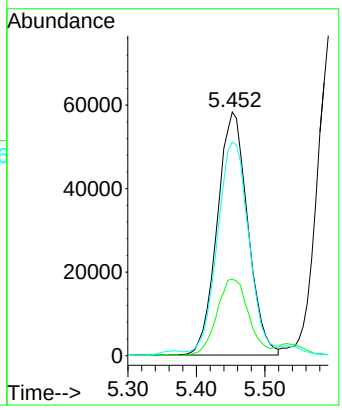


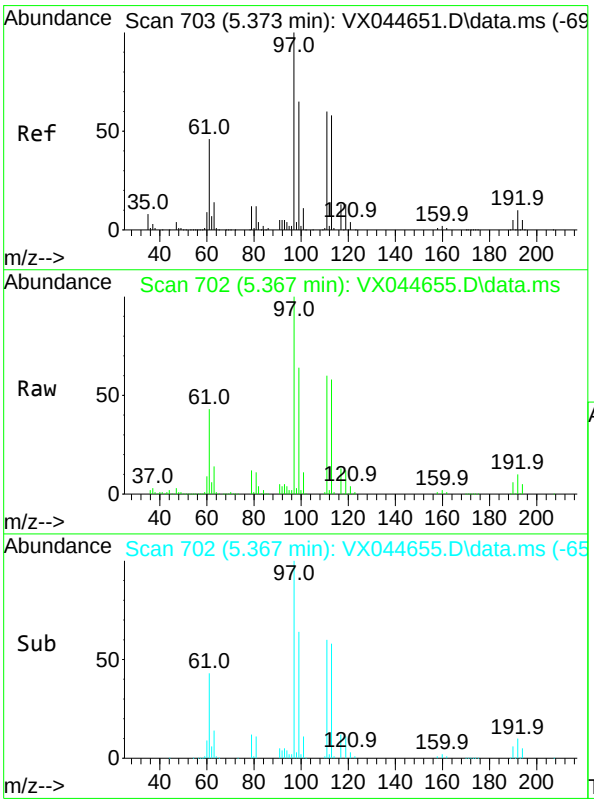

#31
Cyclohexane
Concen: 52.878 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 56 Resp: 180309

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.2 | 26.8 | 40.2 |
| 84 | 86.0 | 71.0 | 106.4 |

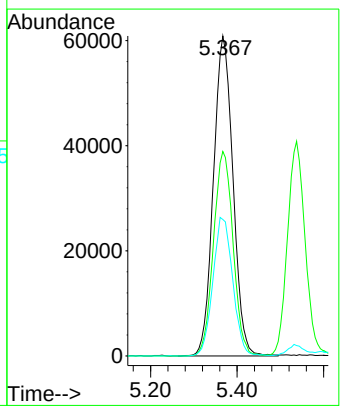


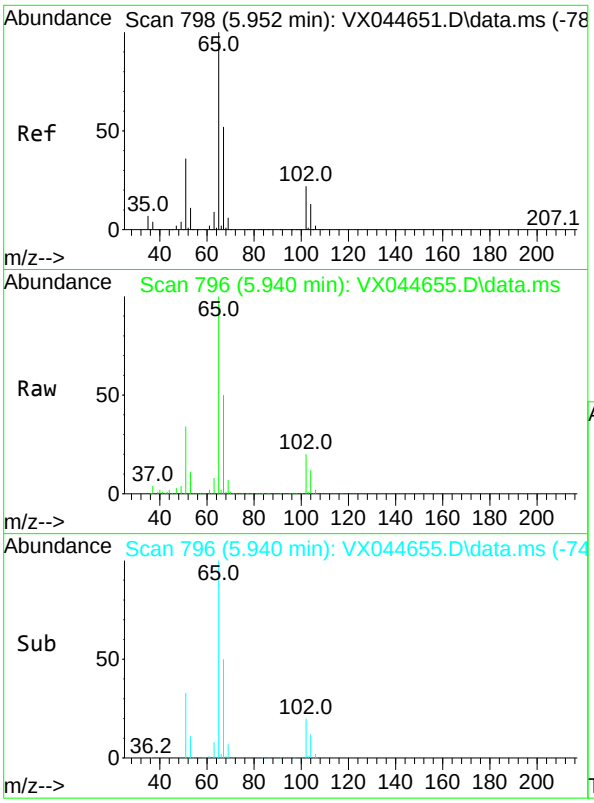




#32
1,1,1-Trichloroethane
Concen: 48.859 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 97 Resp: 191114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.6 | 77.4 |
| 61 | 43.9 | 35.6 | 53.4 |



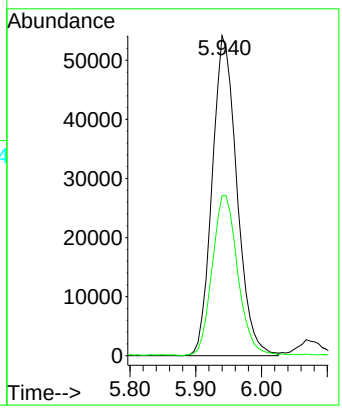


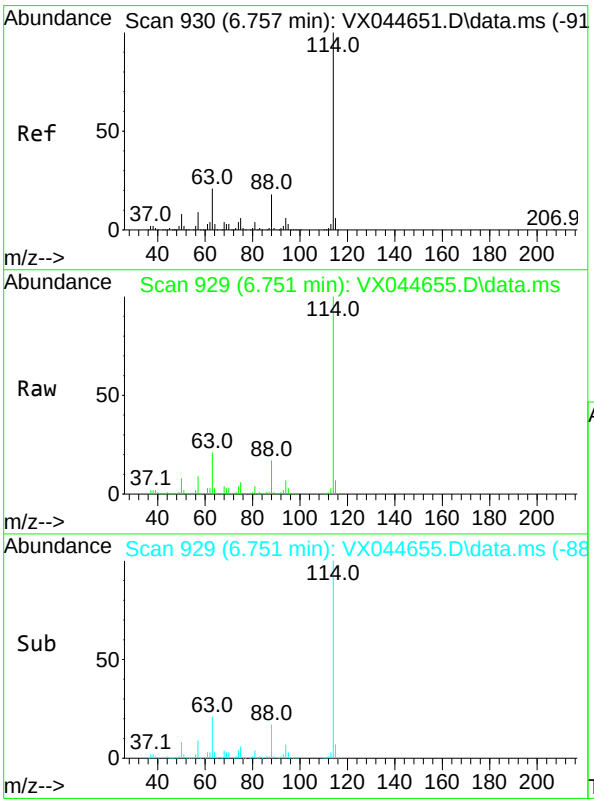

#33
1,2-Dichloroethane-d4
Concen: 52.363 ug/l
RT: 5.940 min Scan# 7
Delta R.T. -0.012 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 65 Resp: 141798

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 52.0 | 0.0 | 103.4 |

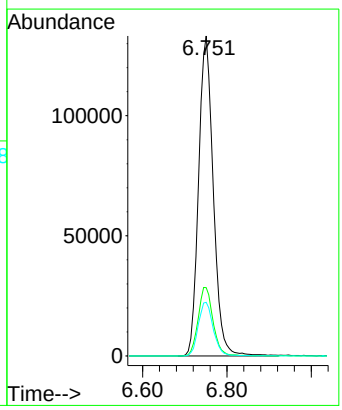


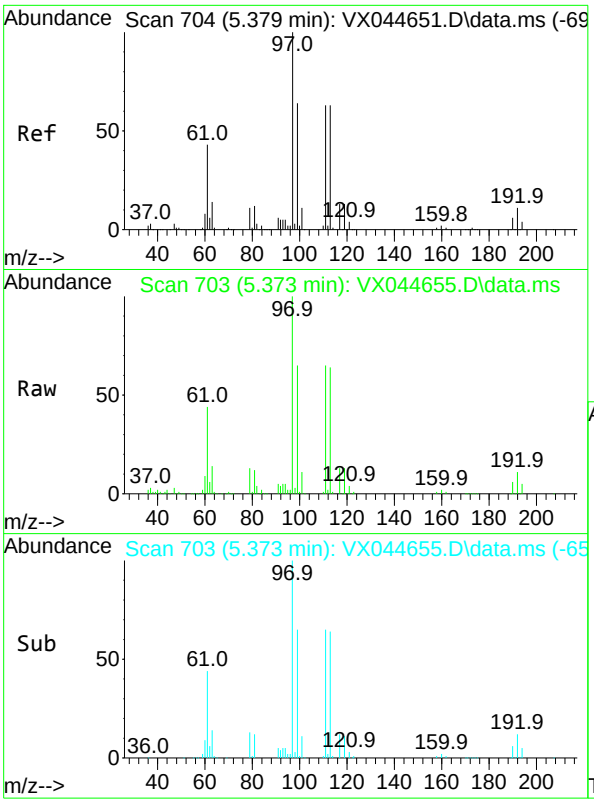




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:114 Resp: 323521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.3 | 0.0 | 43.0 |
| 88 | 16.8 | 0.0 | 35.4 |



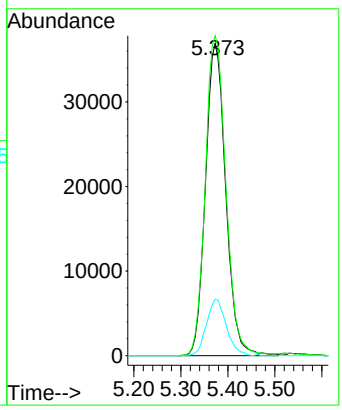


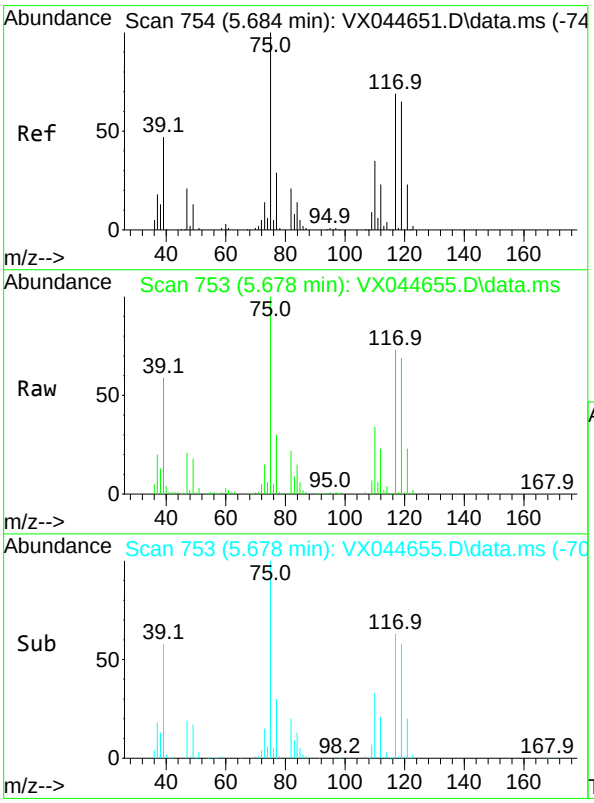

#35
Dibromofluoromethane
Concen: 53.683 ug/l
RT: 5.373 min Scan# 7(
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:113 Resp: 110333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 104.5 | 81.6 | 122.4 |
| 192 | 17.7 | 14.4 | 21.6 |

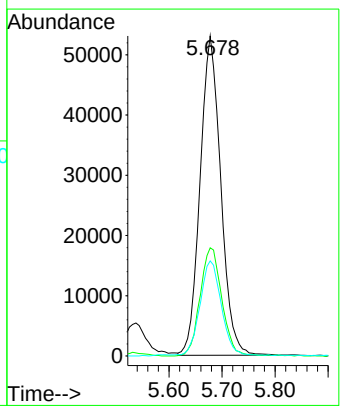


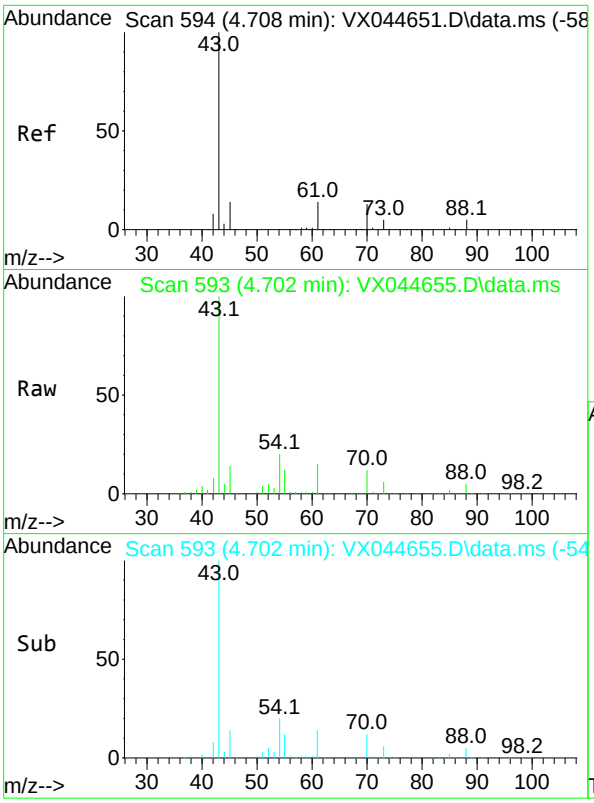




#36
1,1-Dichloropropene
Concen: 50.294 ug/l
RT: 5.678 min Scan# 753
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 75 Resp: 143891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.5 | 17.9 | 53.8 |
| 77 | 30.2 | 24.5 | 36.7 |



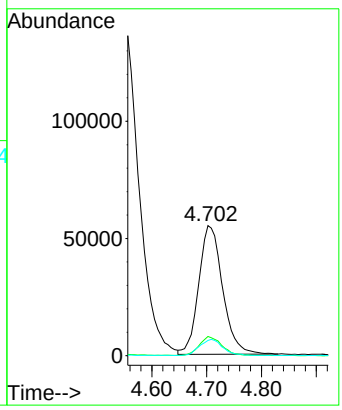


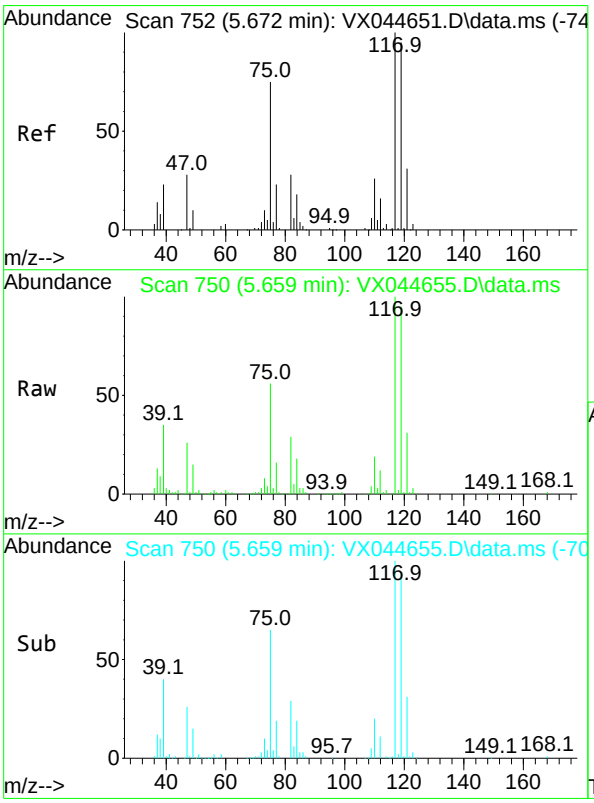

#37
Ethyl Acetate
Concen: 54.526 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 43 Resp: 166128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 10.9 | 16.3 |
| 70 | 12.2 | 10.1 | 15.1 |

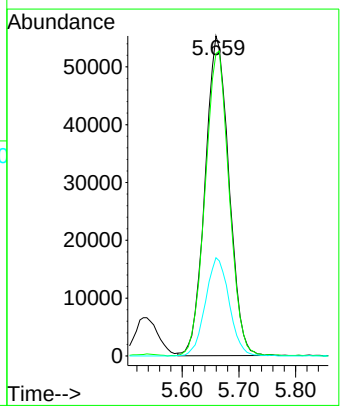


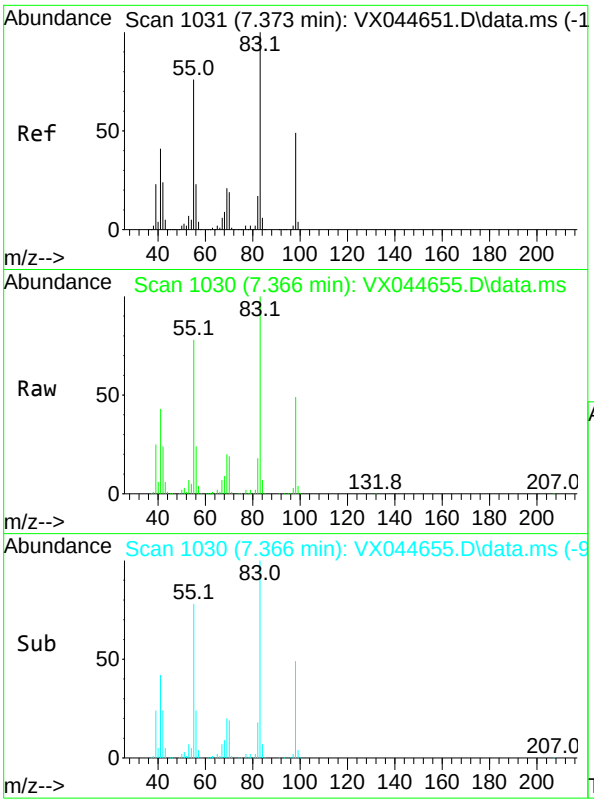




#38
Carbon Tetrachloride
Concen: 50.287 ug/l
RT: 5.659 min Scan# 750
Delta R.T. -0.012 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:117 Resp: 161829

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 94.5 | 76.0 | 114.0 |
| 121 | 30.8 | 24.6 | 36.8 |



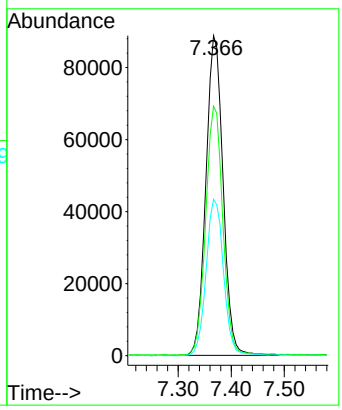


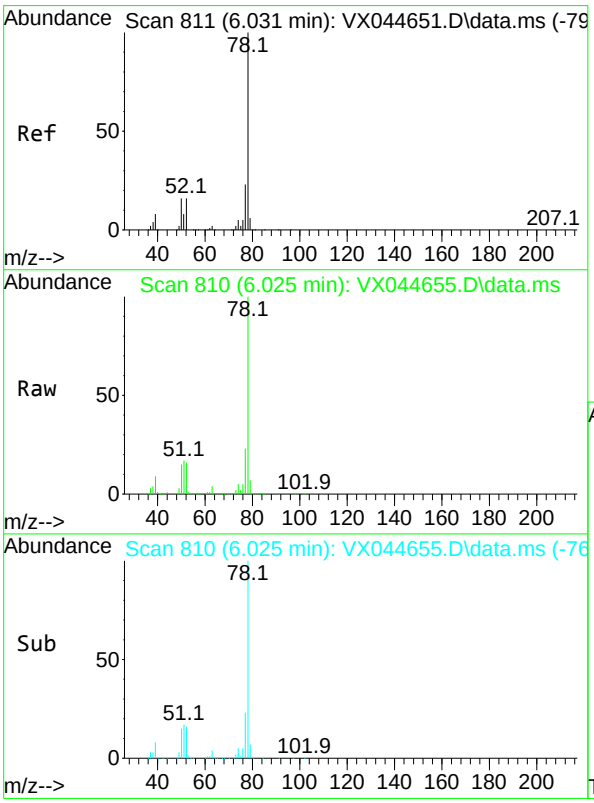

#39
Methylcyclohexane
Concen: 52.520 ug/l
RT: 7.366 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 83 Resp: 199470

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.8 | 60.5 | 90.7 |
| 98 | 48.9 | 39.0 | 58.4 |

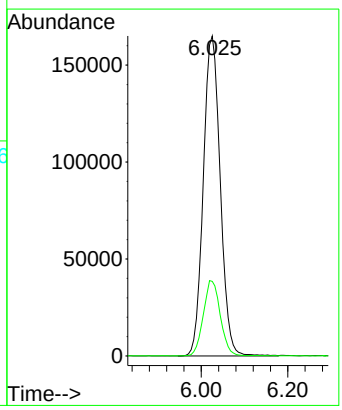


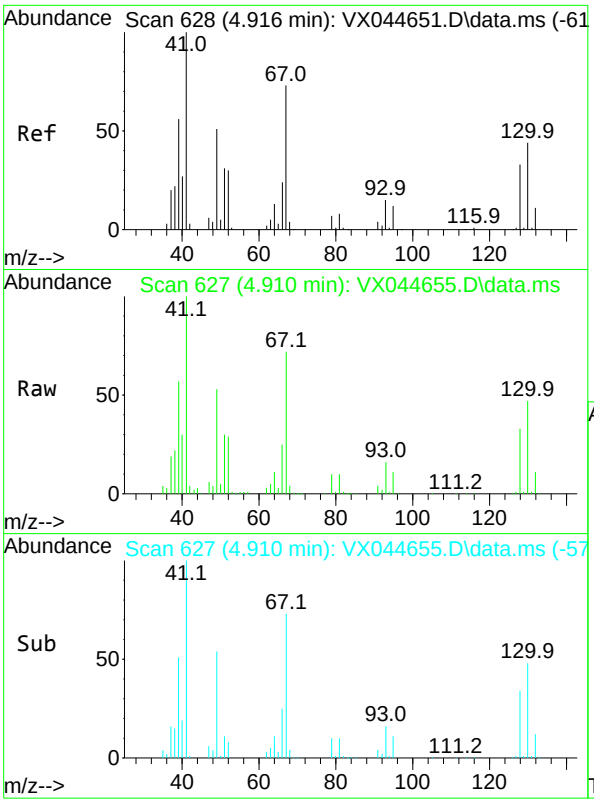




#40
Benzene
Concen: 50.610 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 78 Resp: 448684

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.2 | 18.7 | 28.1 |



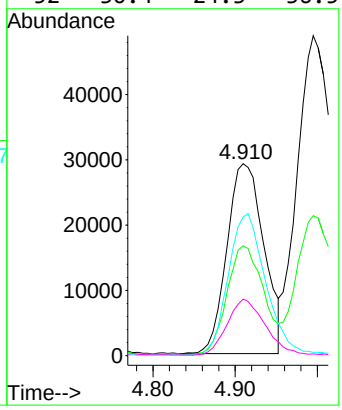


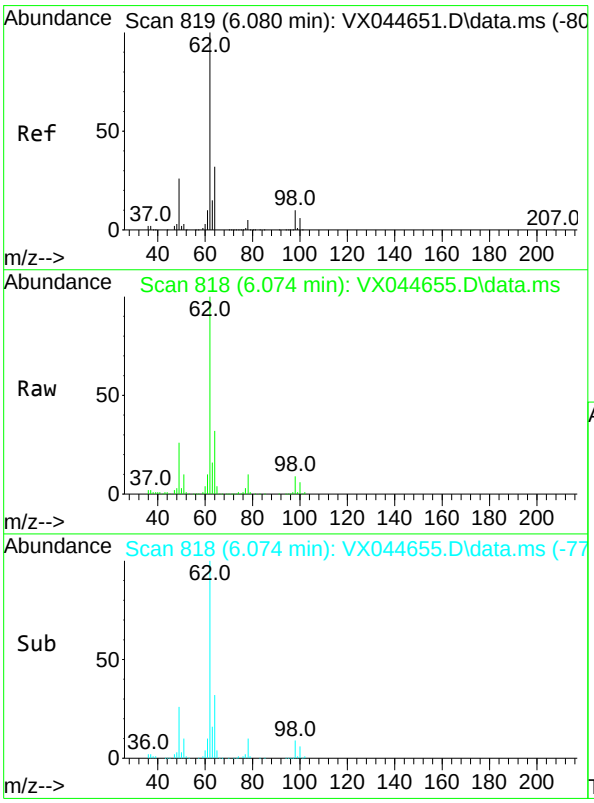

#41
Methacrylonitrile
Concen: 51.342 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 41 Resp: 91151

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 56.2 | 44.4 | 66.6 |
| 67 | 75.5 | 60.6 | 90.8 |
| 52 | 30.4 | 24.3 | 36.5 |

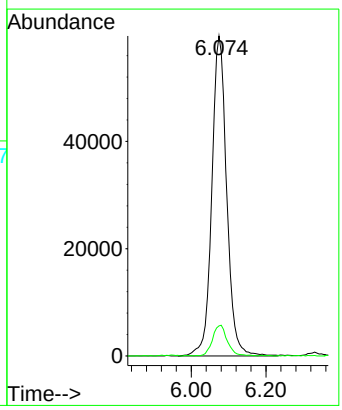


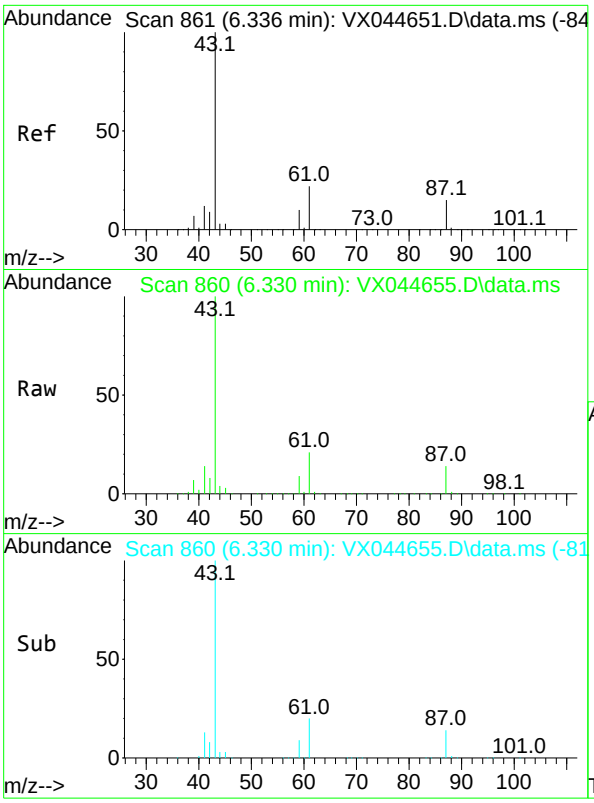




#42
1,2-Dichloroethane
Concen: 50.902 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 62 Resp: 164707

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.7 | 0.0 | 19.4 |



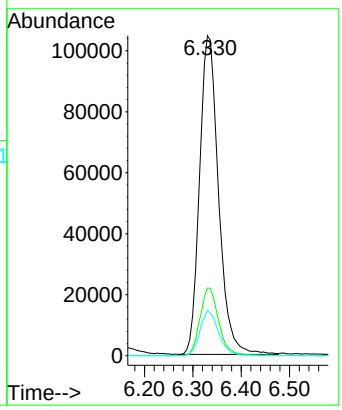


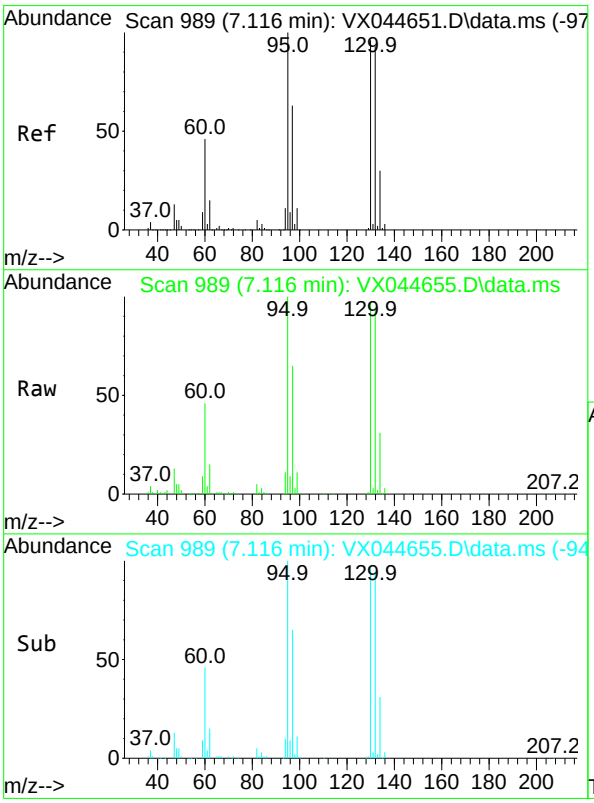

#43
Isopropyl Acetate
Concen: 50.871 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 43 Resp: 285121

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.9 | 16.6 | 24.8 |
| 87 | 13.8 | 11.0 | 16.6 |

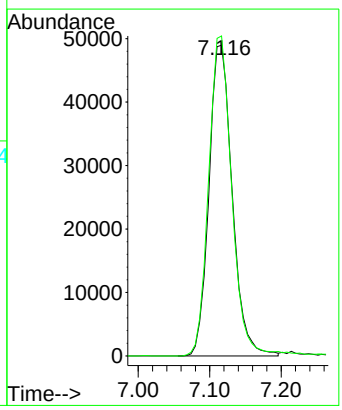


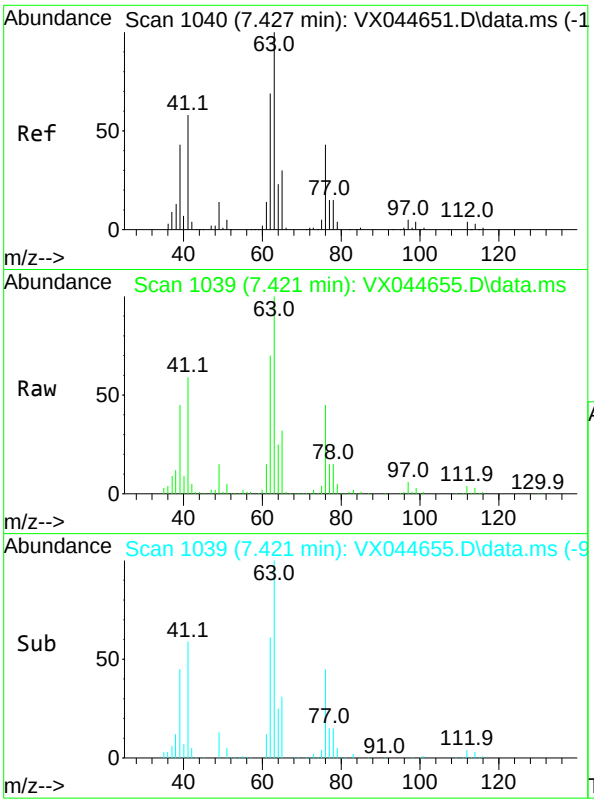




#44
Trichloroethene
Concen: 51.887 ug/l
RT: 7.116 min Scan# 989
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:130 Resp: 110588

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 103.0 | 0.0 | 208.2 |



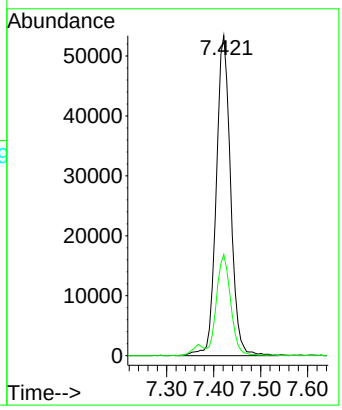


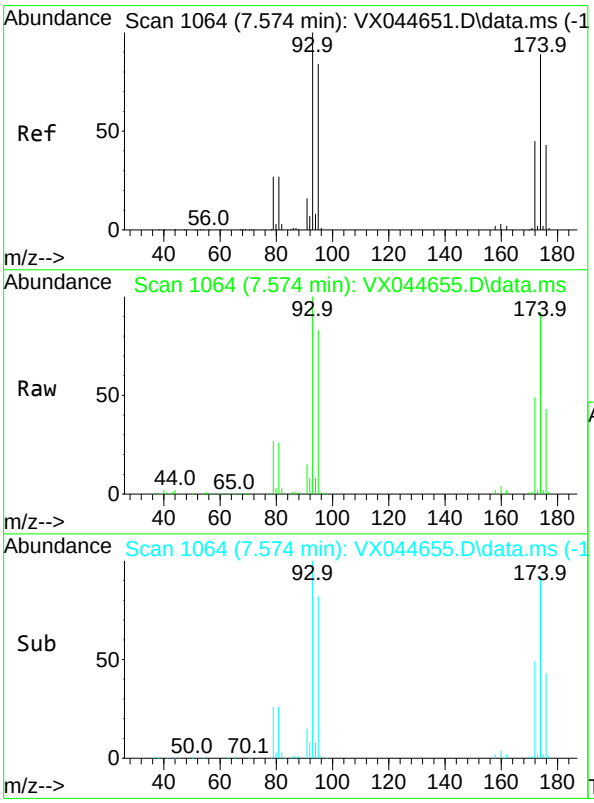

#45
1,2-Dichloropropane
Concen: 51.011 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 63 Resp: 113836

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.6 | 24.2 | 36.2 |

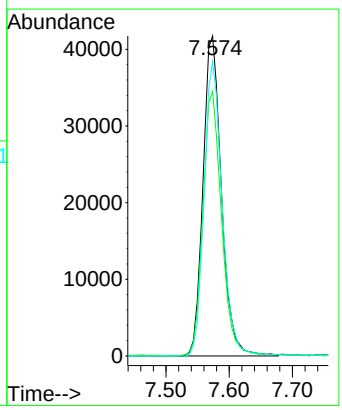


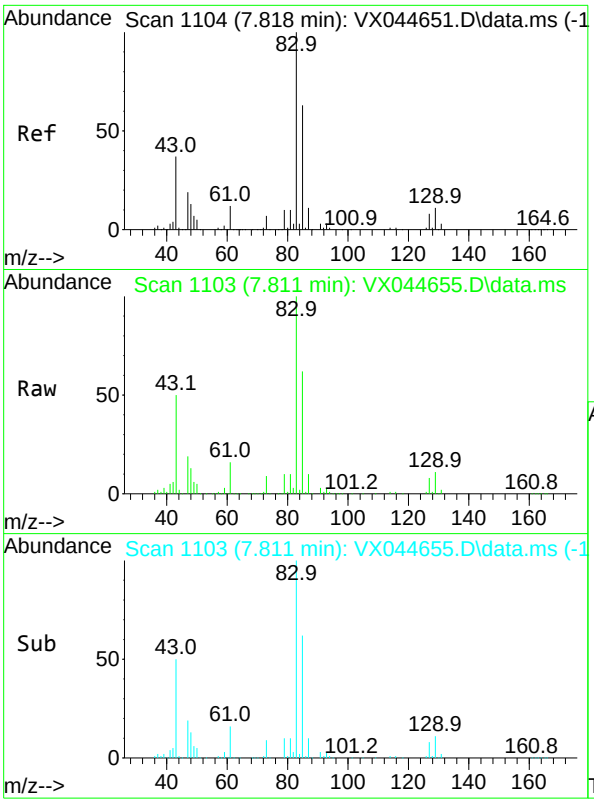




#46
Dibromomethane
Concen: 49.939 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 93 Resp: 84838

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 83.4 | 66.4 | 99.6 |
| 174 | 90.0 | 72.0 | 108.0 |



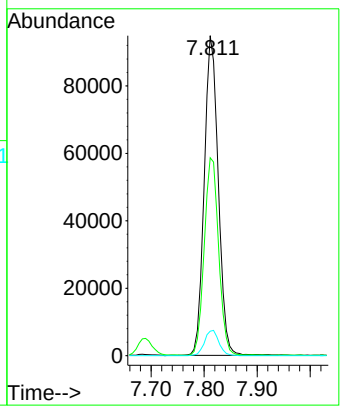


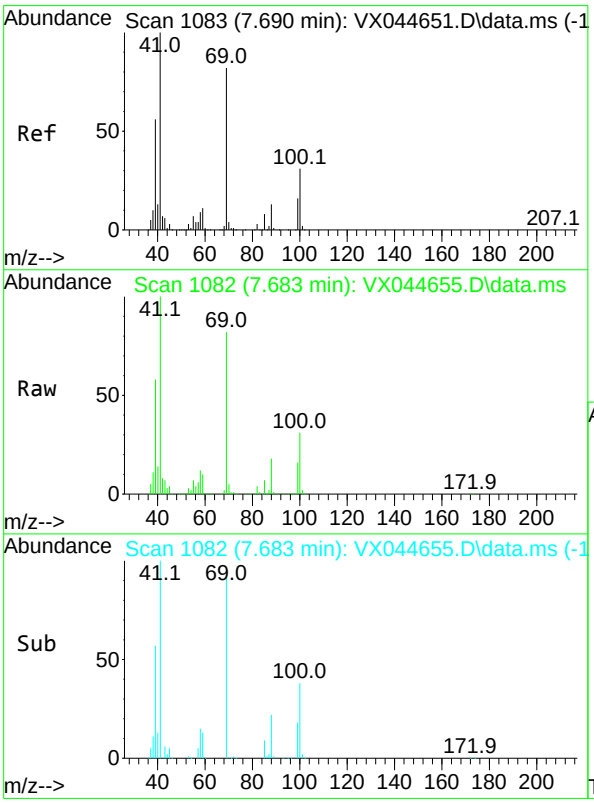

#47
Bromodichloromethane
Concen: 50.029 ug/l
RT: 7.811 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 83 Resp: 174297

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 61.7 | 50.1 | 75.1 |
| 127 | 7.7 | 6.5 | 9.7 |

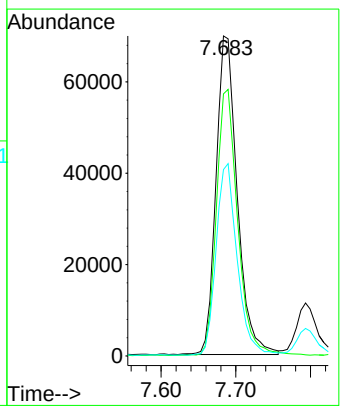


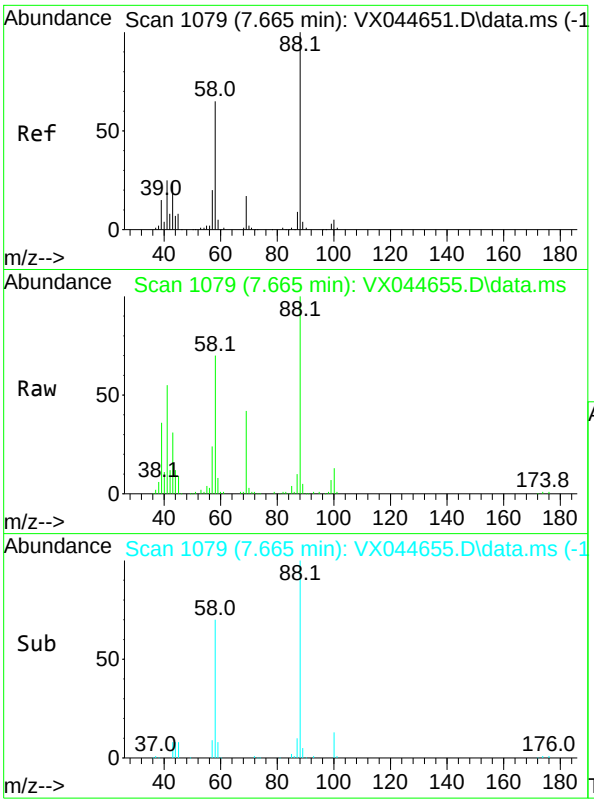




#48
Methyl methacrylate
Concen: 52.890 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 41 Resp: 137603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.2 | 66.8 | 100.2 |
| 39 | 59.6 | 47.4 | 71.0 |



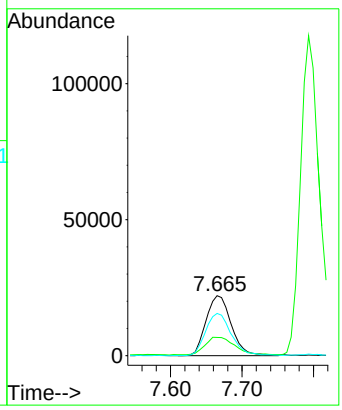


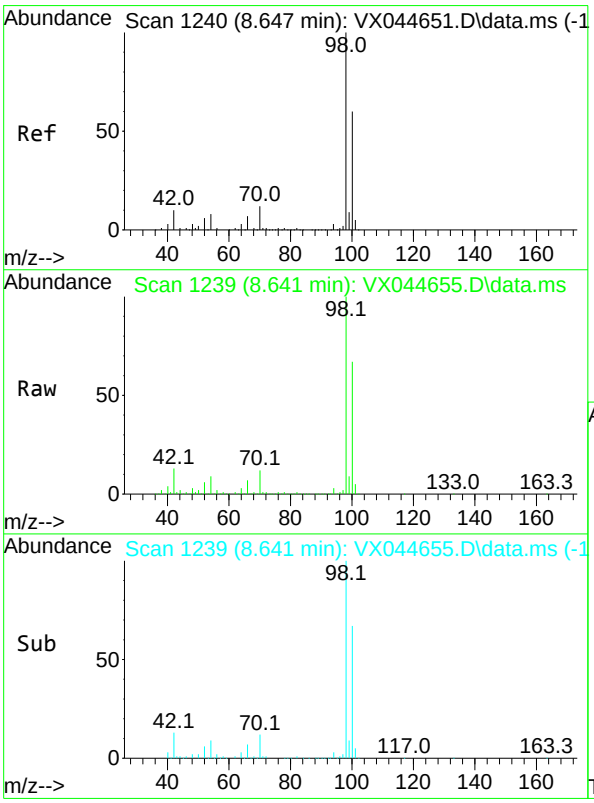

#49
1,4-Dioxane
Concen: 992.095 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 88 Resp: 53851

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 35.2 | 27.0 | 40.4 |
| 58 | 72.4 | 55.8 | 83.8 |

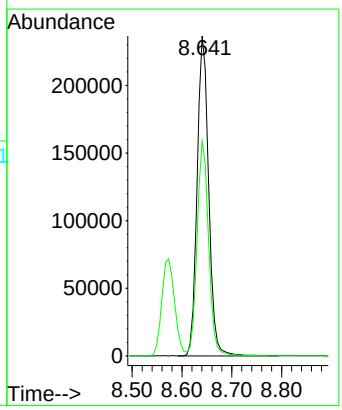


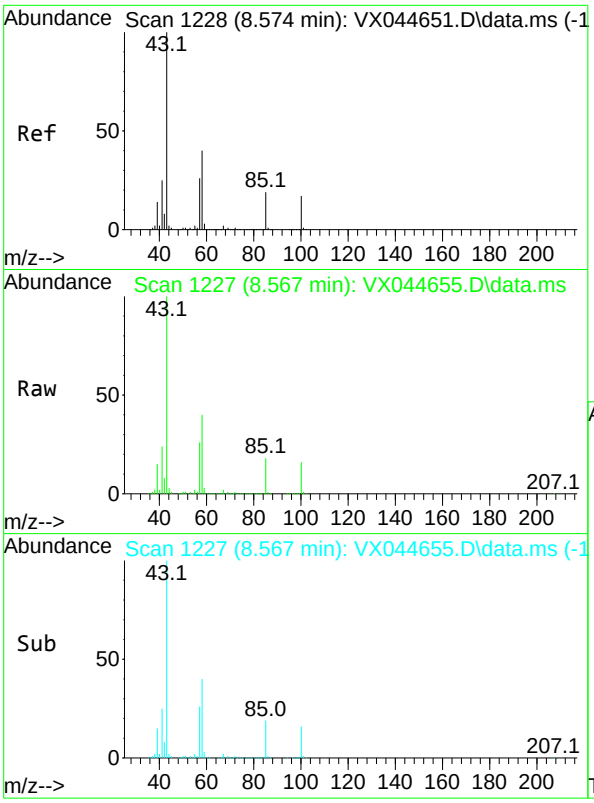




#50
Toluene-d8
Concen: 53.113 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 98 Resp: 380624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.9 | 53.2 | 79.8 |



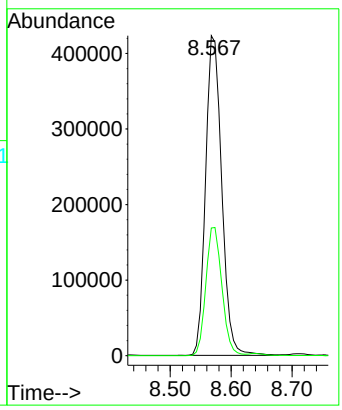


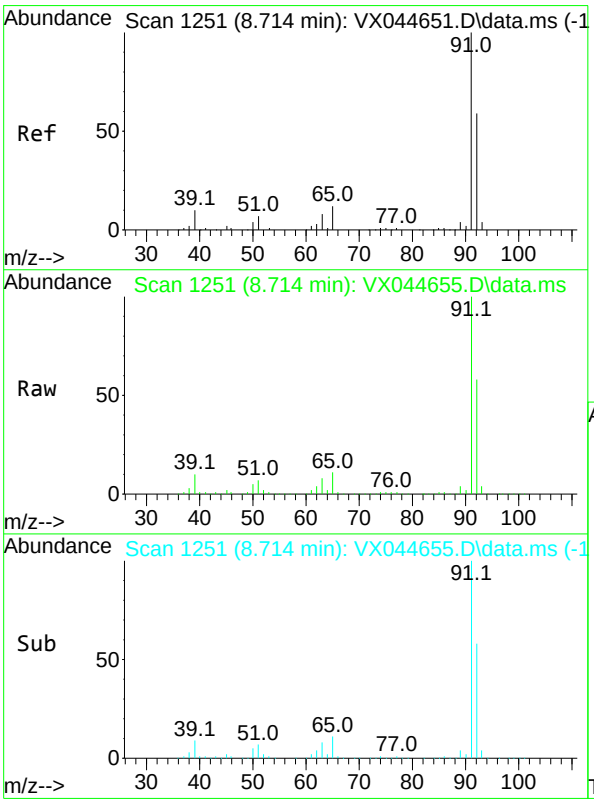

#51
4-Methyl-2-Pentanone
Concen: 251.778 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 43 Resp: 779855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.9 | 31.9 | 47.9 |

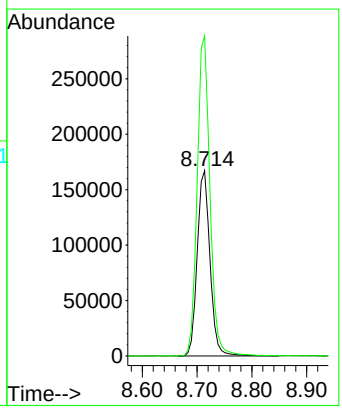


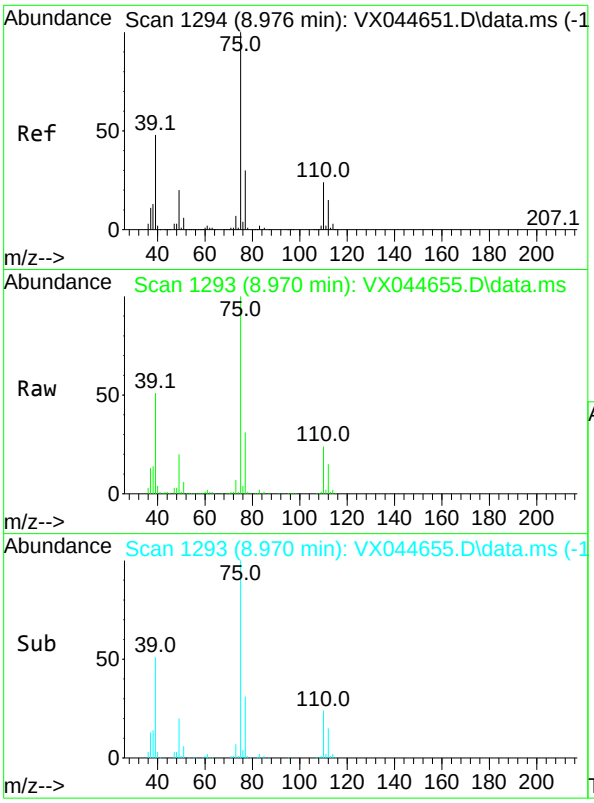




#52
Toluene
Concen: 49.955 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 92 Resp: 271071

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 172.7 | 135.7 | 203.5 |



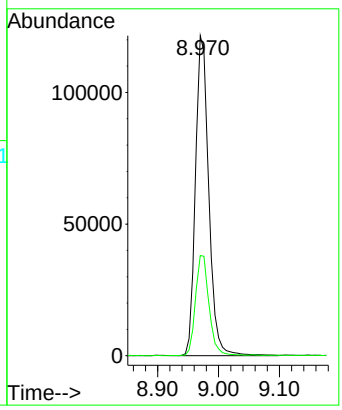


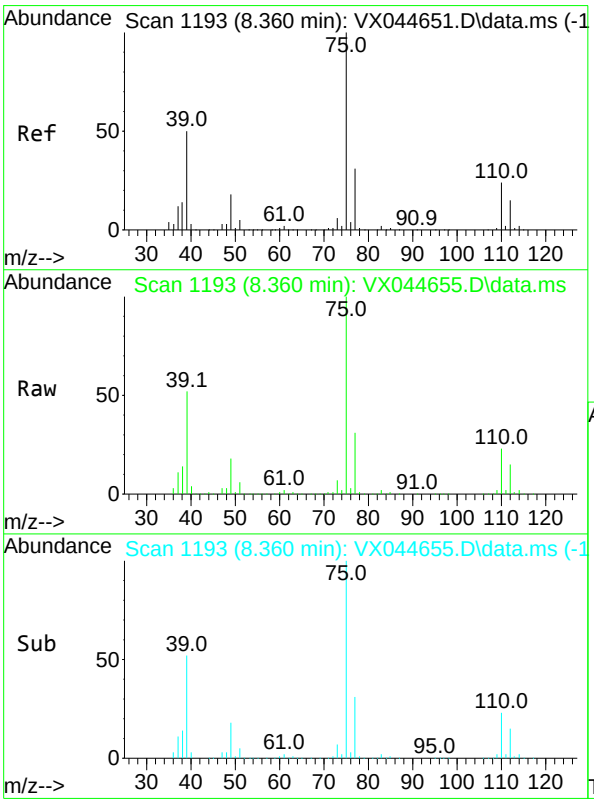

#53
t-1,3-Dichloropropene
Concen: 51.300 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 75 Resp: 184653

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 24.4 | 36.6 |

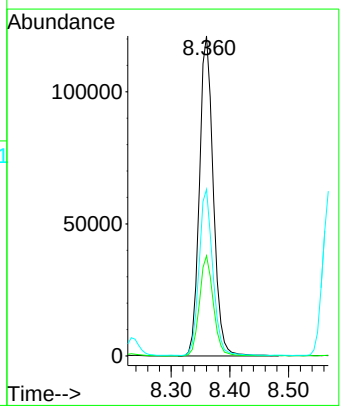


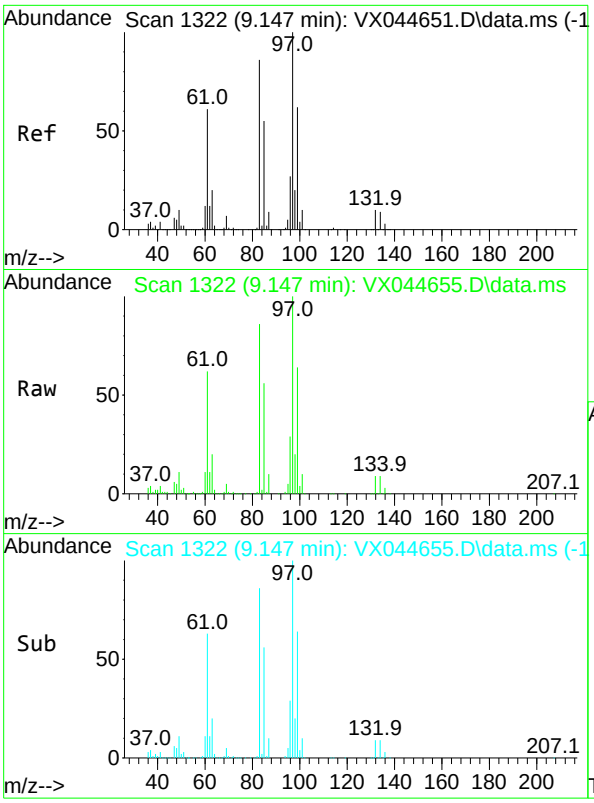




#54
cis-1,3-Dichloropropene
Concen: 51.049 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 75 Resp: 199240

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.3 | 25.1 | 37.7 |
| 39 | 51.9 | 40.3 | 60.5 |



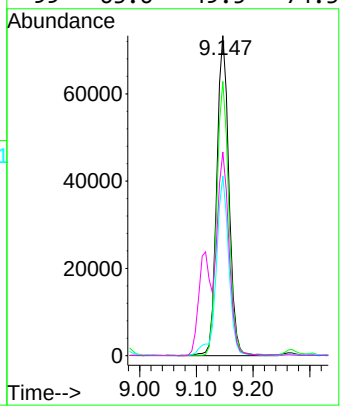


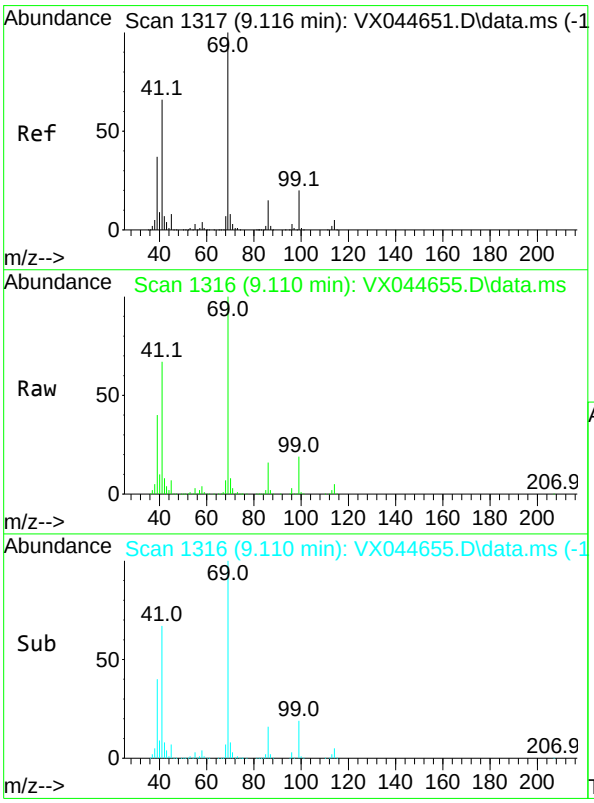

#55
1,1,2-Trichloroethane
Concen: 50.085 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 97 Resp: 109957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 85.6 | 68.8 | 103.2 |
| 85 | 56.2 | 43.7 | 65.5 |
| 99 | 63.6 | 49.5 | 74.3 |

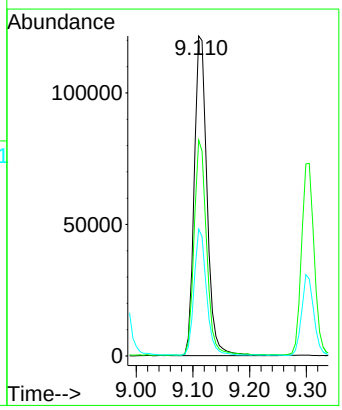


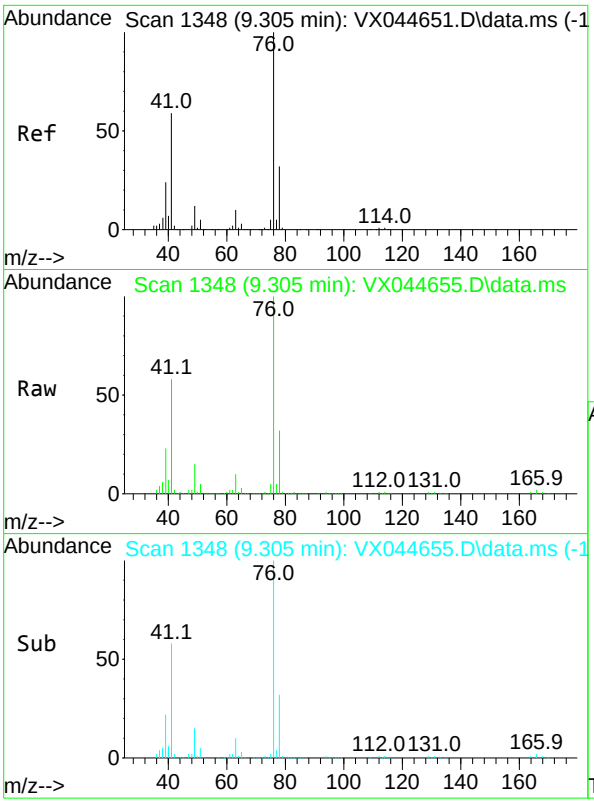




#56
Ethyl methacrylate
Concen: 50.595 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 69 Resp: 190986

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.0 | 53.2 | 79.8 |
| 39 | 38.4 | 30.2 | 45.2 |



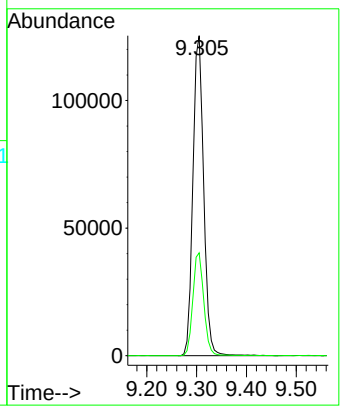


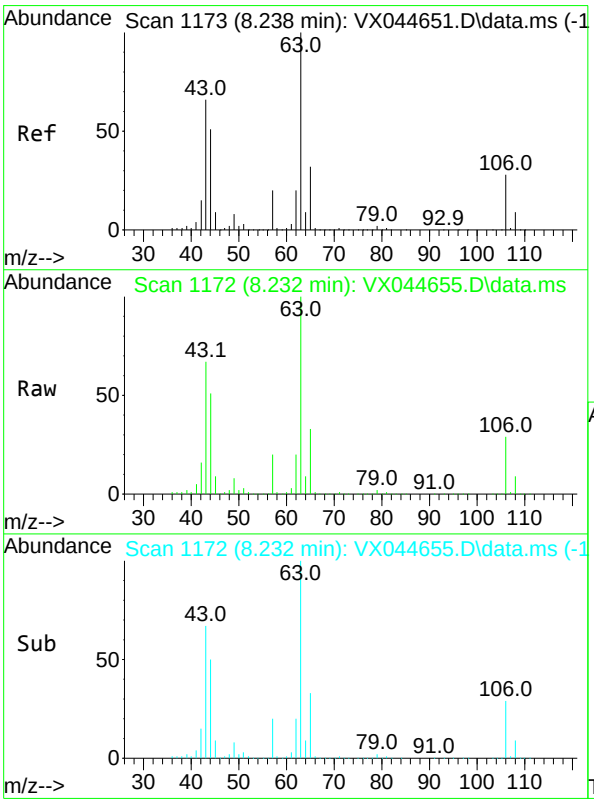

#57
1,3-Dichloropropane
Concen: 50.129 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 76 Resp: 187407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.9 | 26.0 | 39.0 |

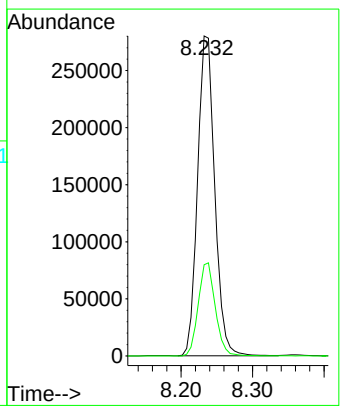


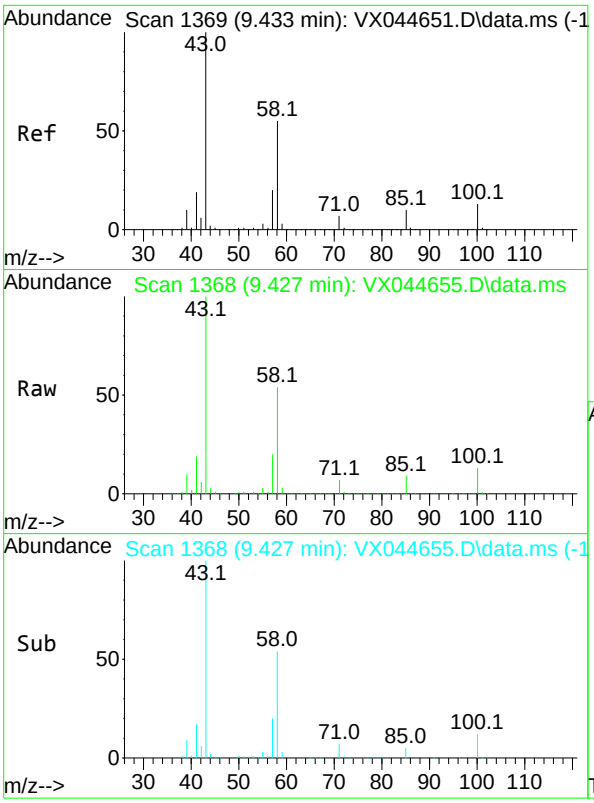




#58
2-Chloroethyl Vinyl ether
Concen: 251.852 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 63 Resp: 466737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.9 | 23.0 | 34.6 |



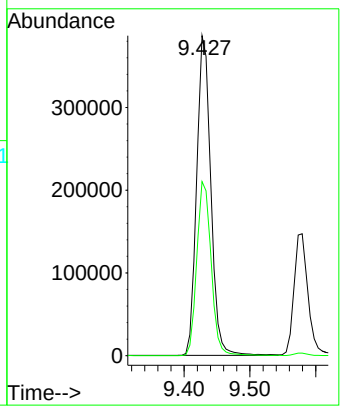


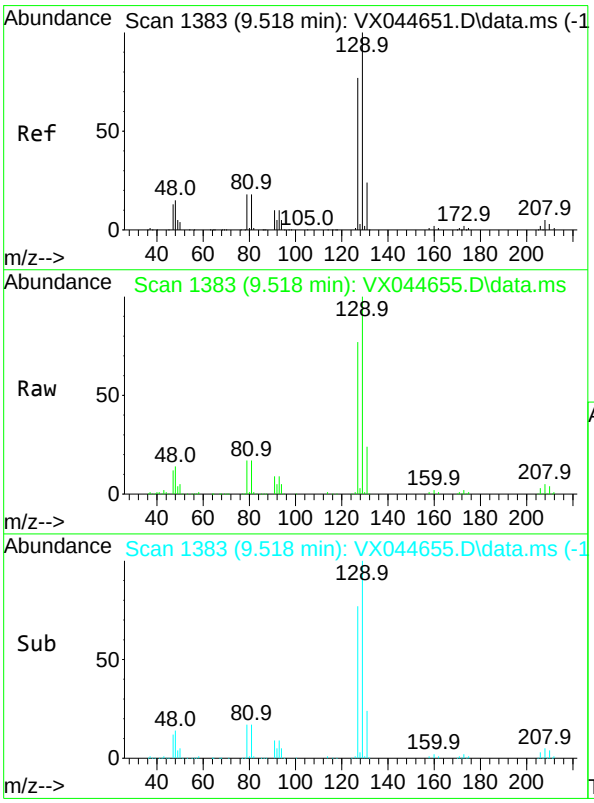

#59
2-Hexanone
Concen: 253.010 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 43 Resp: 576549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.4 | 27.8 | 83.3 |

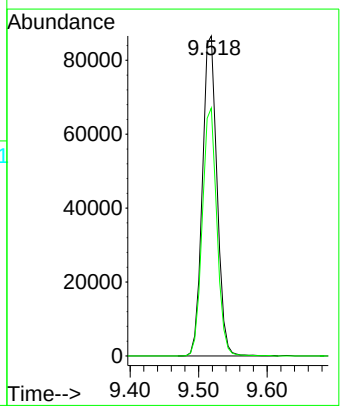


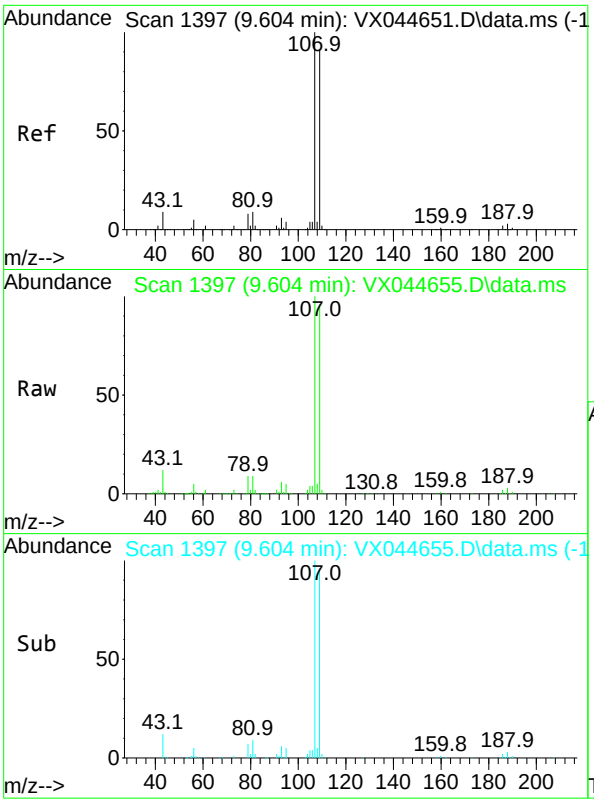




#60
Dibromochloromethane
Concen: 49.957 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:129 Resp: 128727

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.2 | 38.5 | 115.5 |



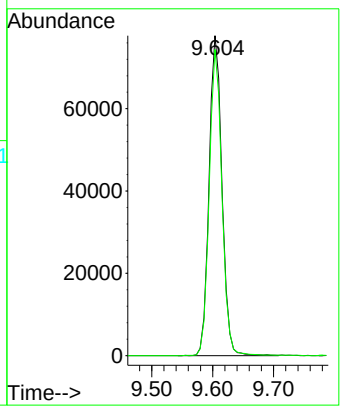


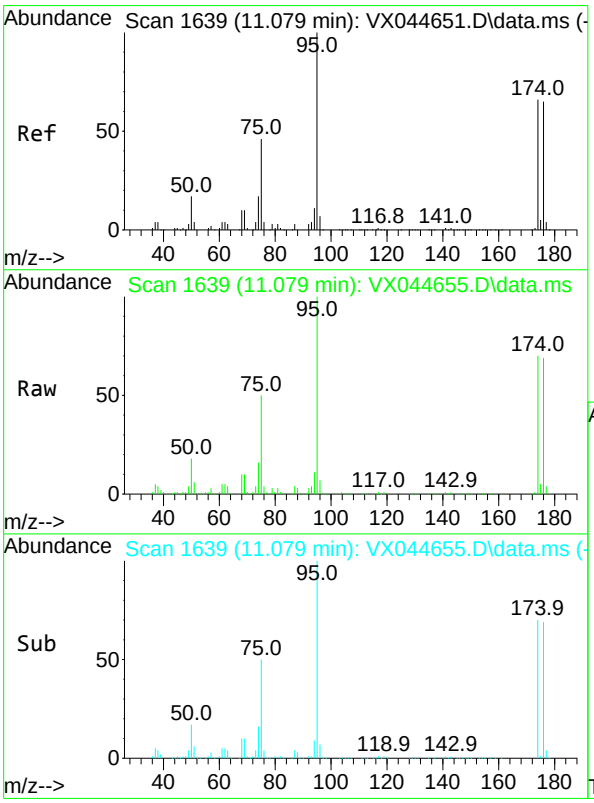

#61
1,2-Dibromoethane
Concen: 49.693 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:107 Resp: 114330

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.5 | 75.3 | 112.9 |

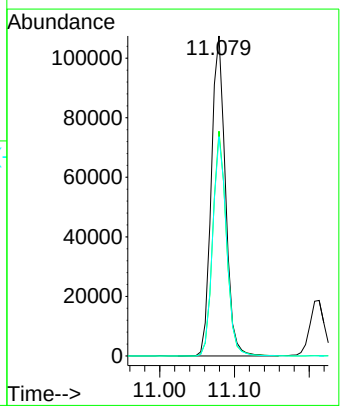


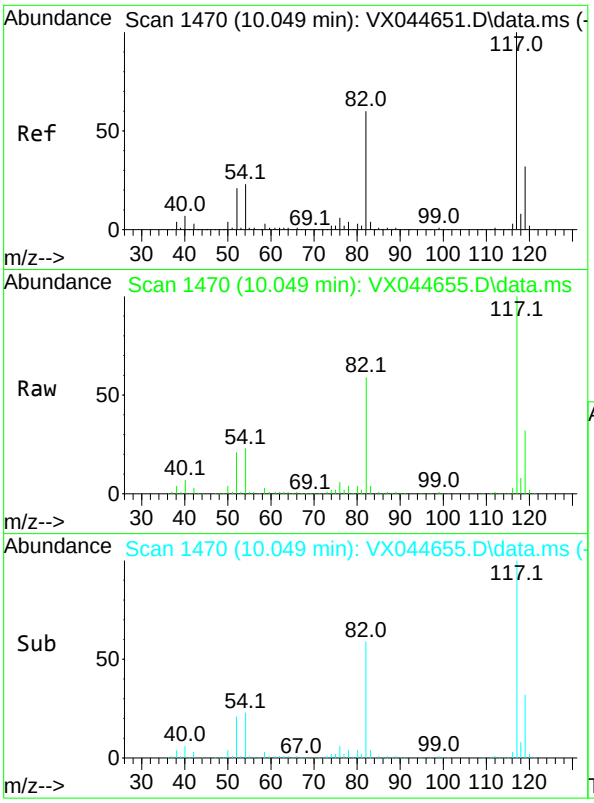




#62
4-Bromofluorobenzene
Concen: 52.693 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 95 Resp: 140770

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 67.6 | 0.0 | 133.0 |
| 176 | 67.1 | 0.0 | 129.4 |



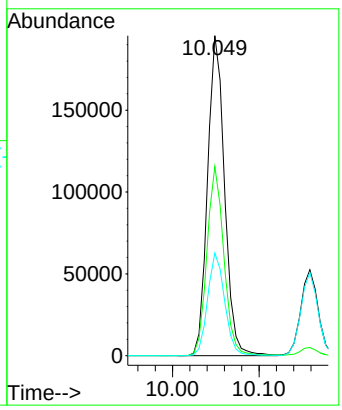


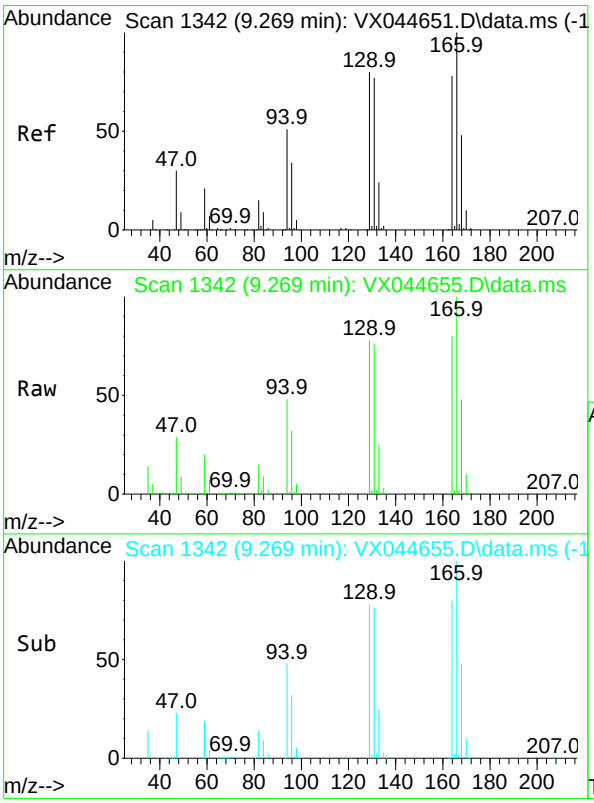

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:117 Resp: 266872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 59.1 | 47.6 | 71.4 |
| 119 | 32.1 | 25.4 | 38.2 |

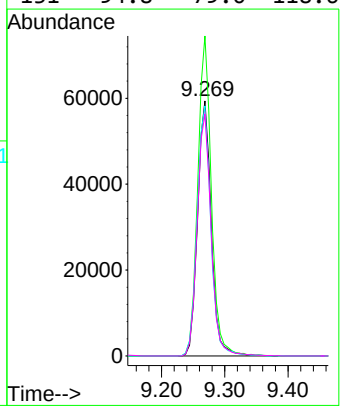


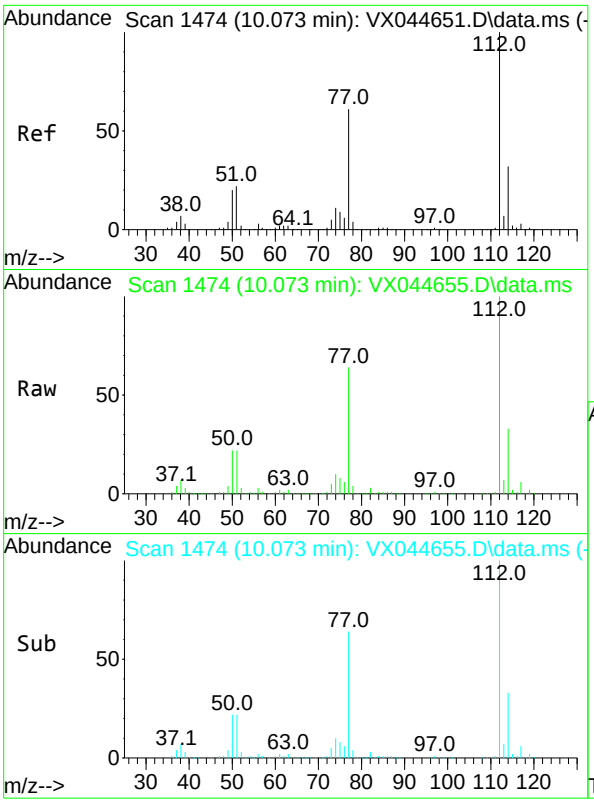




#64
Tetrachloroethene
Concen: 53.384 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:164 Resp: 89460

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 125.5 | 102.0 | 153.0 |
| 129 | 98.0 | 81.1 | 121.7 |
| 131 | 94.8 | 79.0 | 118.6 |



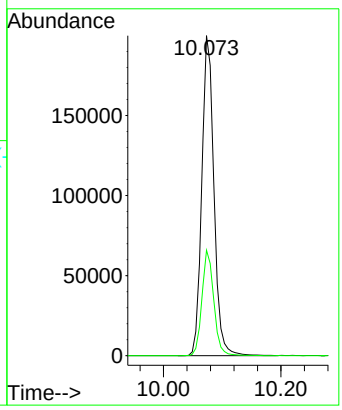


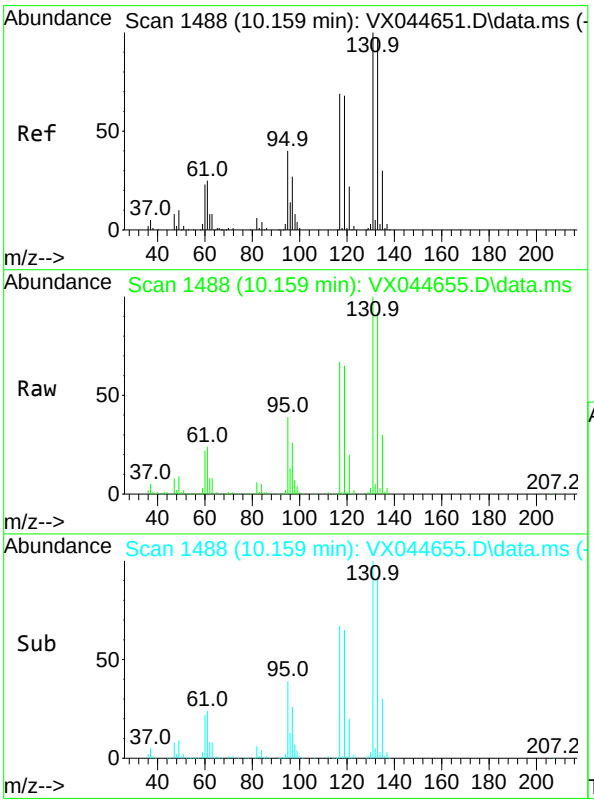

#65
Chlorobenzene
Concen: 50.667 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:112 Resp: 287202

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.9 | 25.3 | 37.9 |

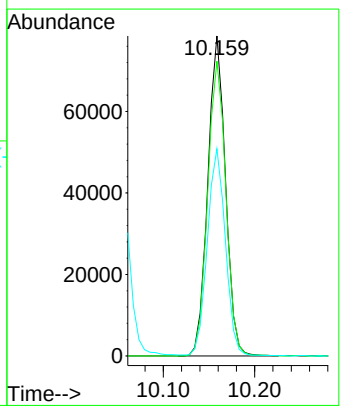


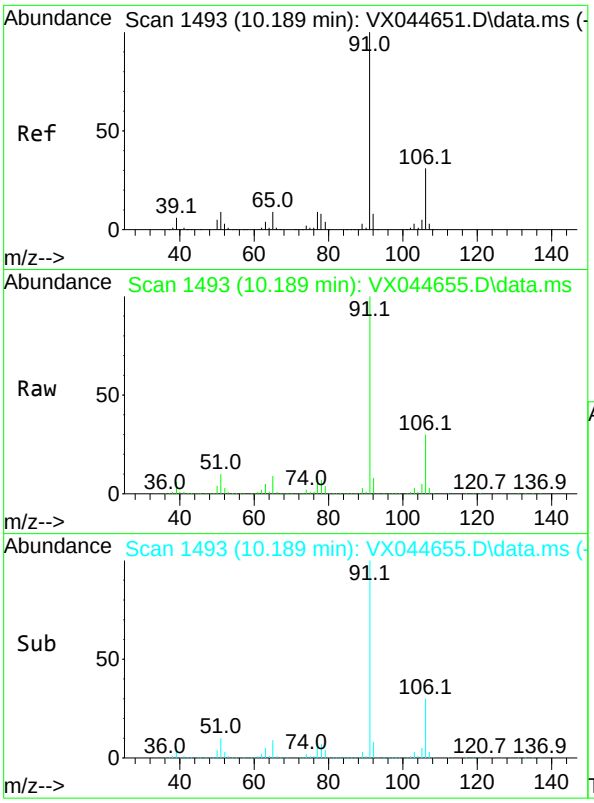




#66
1,1,1,2-Tetrachloroethane
Concen: 51.129 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:131 Resp: 105329

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 94.8 | 47.8 | 143.3 |
| 119 | 66.5 | 33.4 | 100.2 |



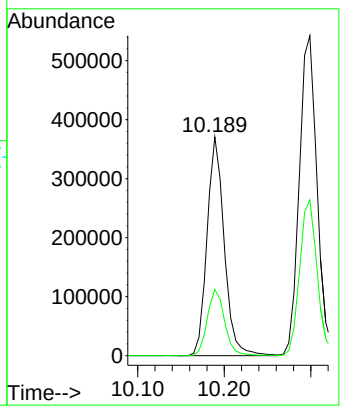


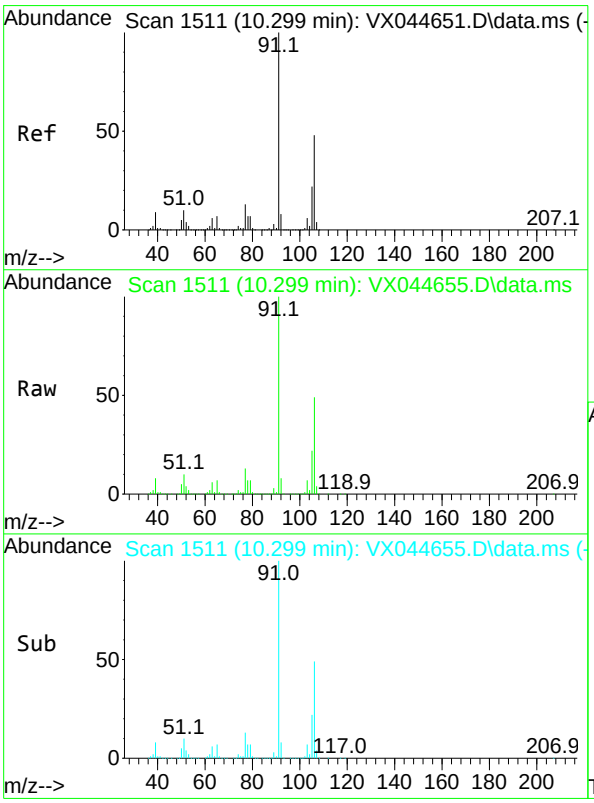

#67
Ethyl Benzene
Concen: 51.721 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 91 Resp: 511560

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.3 | 25.0 | 37.6 |

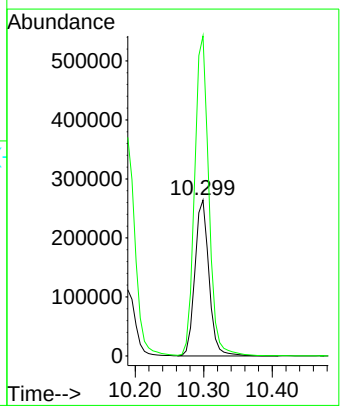


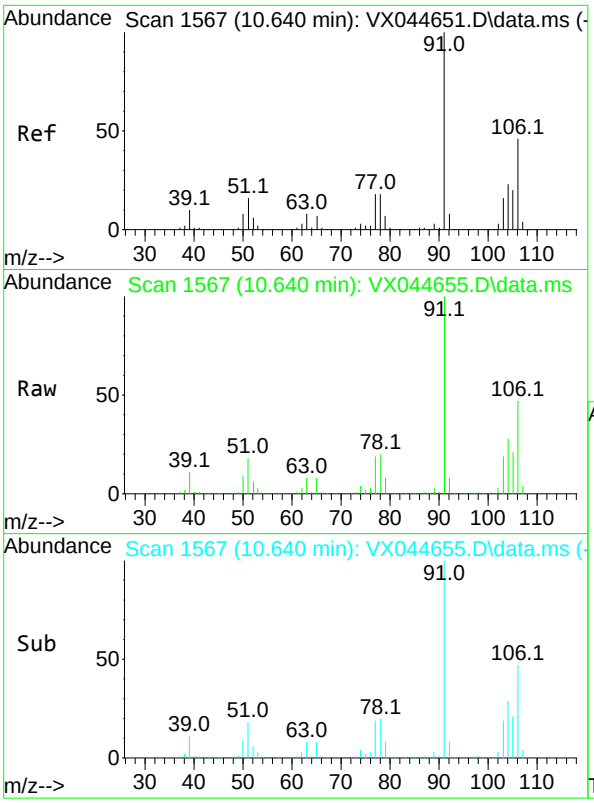




#68
m/p-Xylenes
Concen: 102.645 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:106 Resp: 376743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 207.7 | 166.4 | 249.6 |



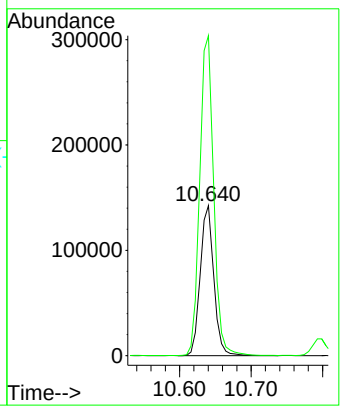


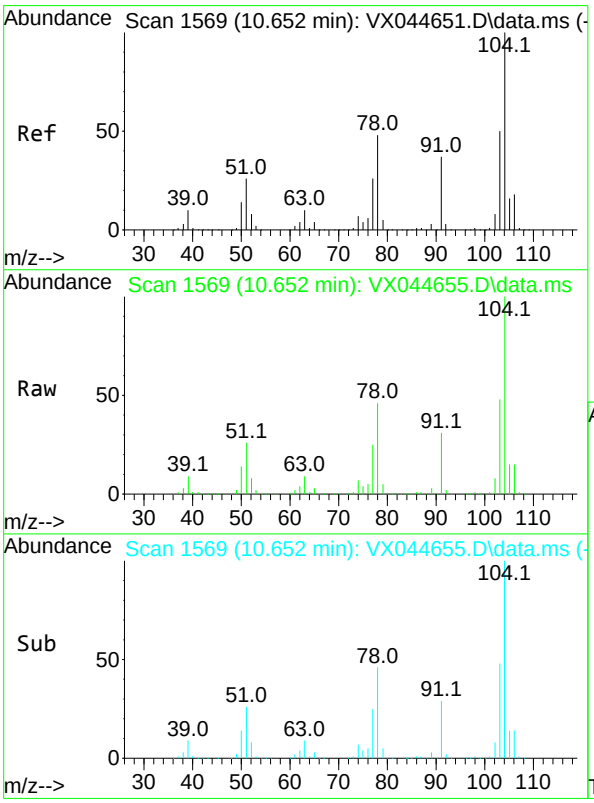

#69
o-Xylene
Concen: 50.378 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:106 Resp: 186995

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 219.3 | 108.7 | 326.3 |

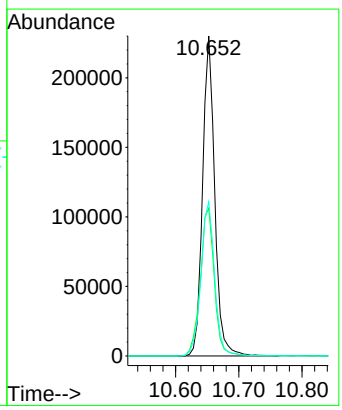


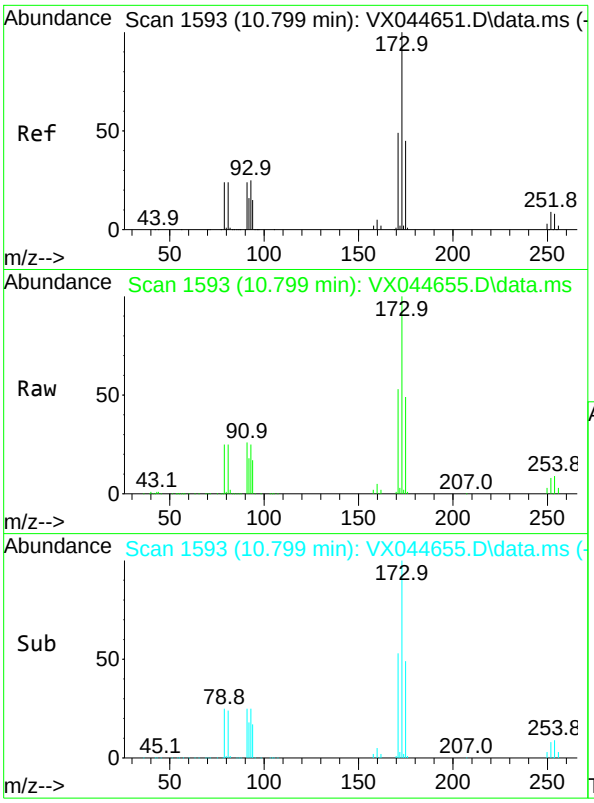




#70
Styrene
Concen: 51.398 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:104 Resp: 308018

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 53.4 | 43.0 | 64.6 |
| 103 | 54.4 | 43.4 | 65.2 |



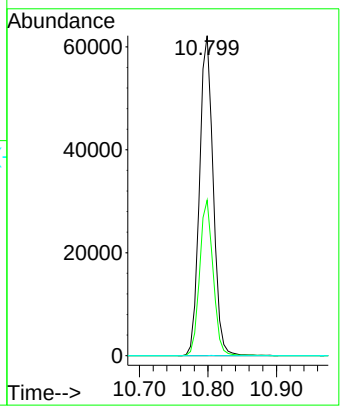


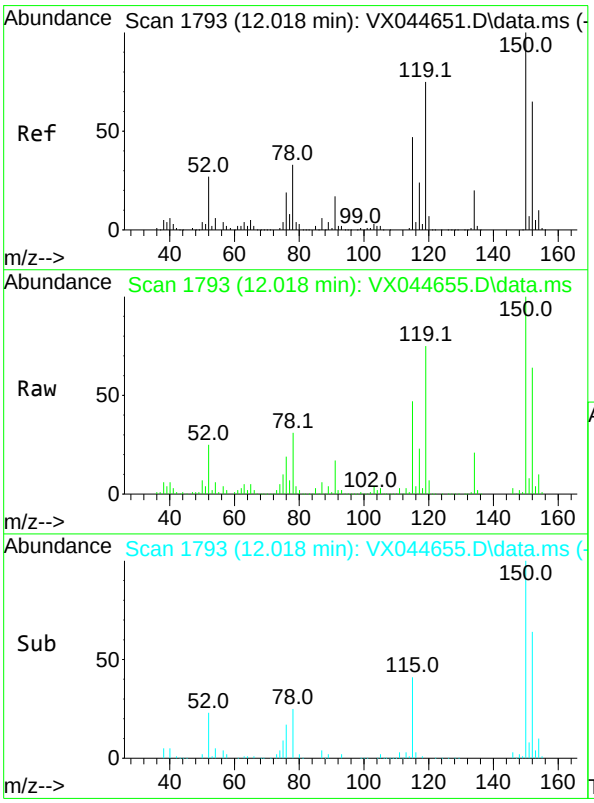

#71
Bromoform
Concen: 51.597 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:173 Resp: 86512

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.9 | 23.6 | 70.8 |
| 254 | 0.0 | 0.1 | 0.1# |

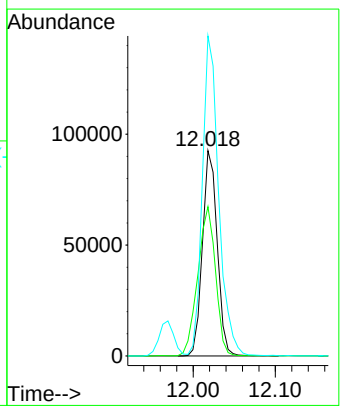


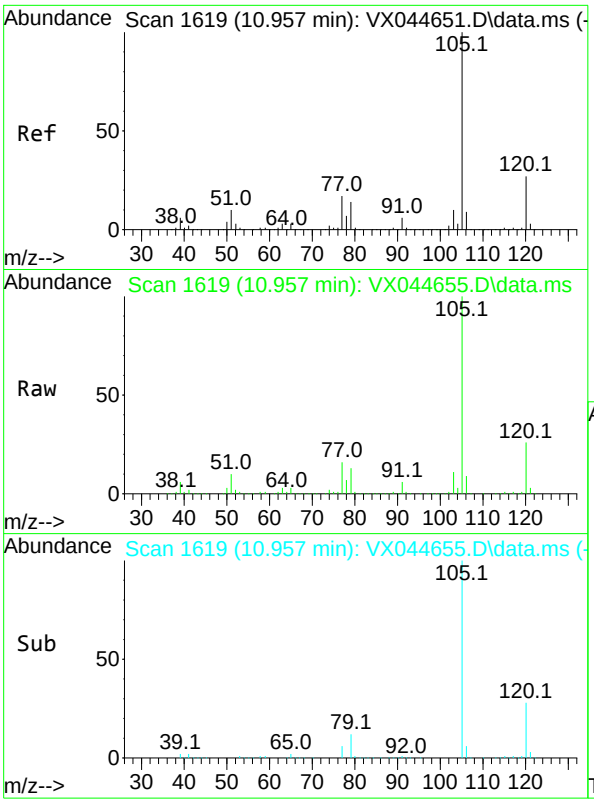




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:152 Resp: 115489

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 87.0 | 43.8 | 131.4 |
| 150 | 171.8 | 0.0 | 347.8 |



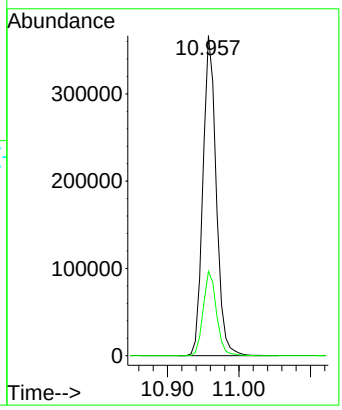


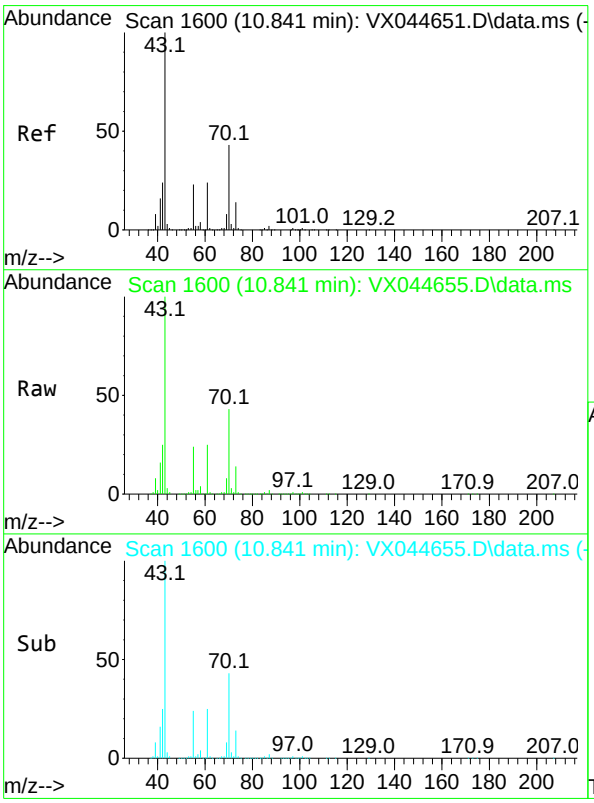

#73
Isopropylbenzene
Concen: 50.246 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:105 Resp: 474051

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.2 | 13.2 | 39.6 |

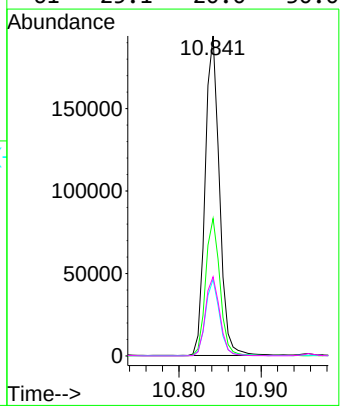


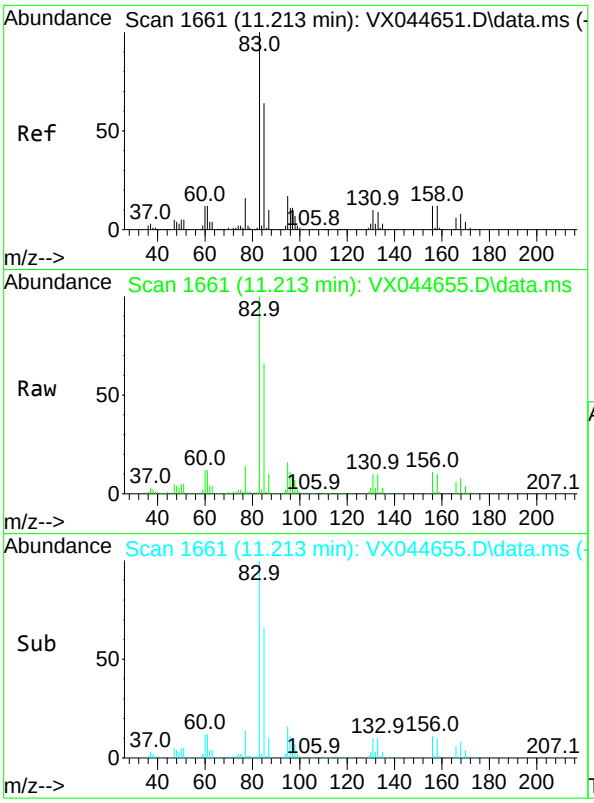




#74
N-amyl acetate
Concen: 50.177 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 43 Resp: 233338

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.2 | 35.2 | 52.8 |
| 55 | 23.6 | 19.0 | 28.4 |
| 61 | 25.1 | 20.0 | 30.0 |



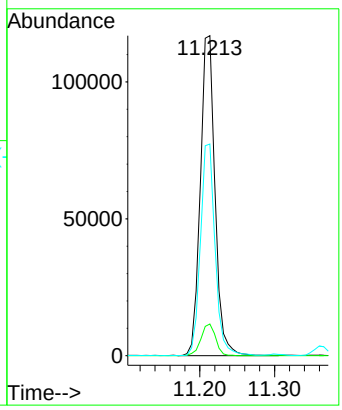


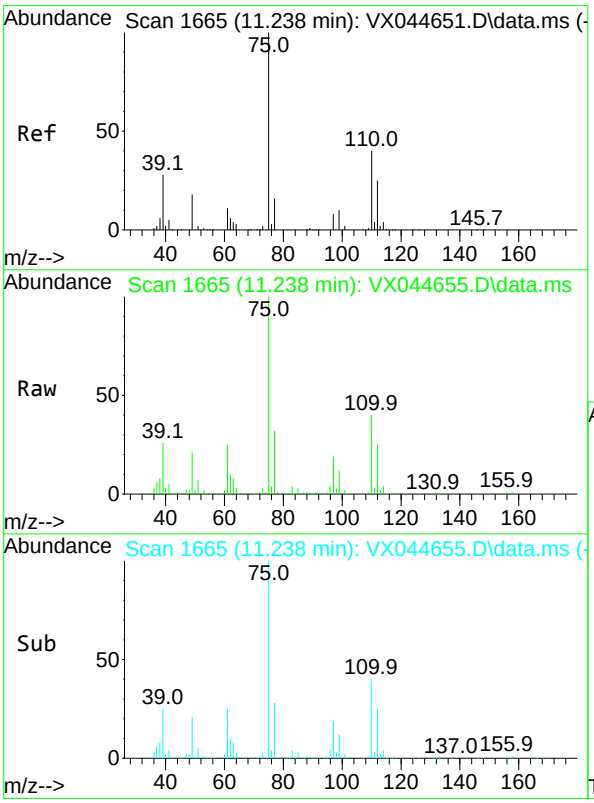

#75
1,1,2,2-Tetrachloroethane
Concen: 49.002 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 83 Resp: 159673

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.9 | 5.0 | 14.9 |
| 85 | 66.2 | 32.0 | 96.2 |

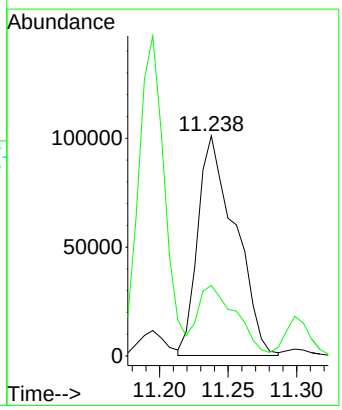


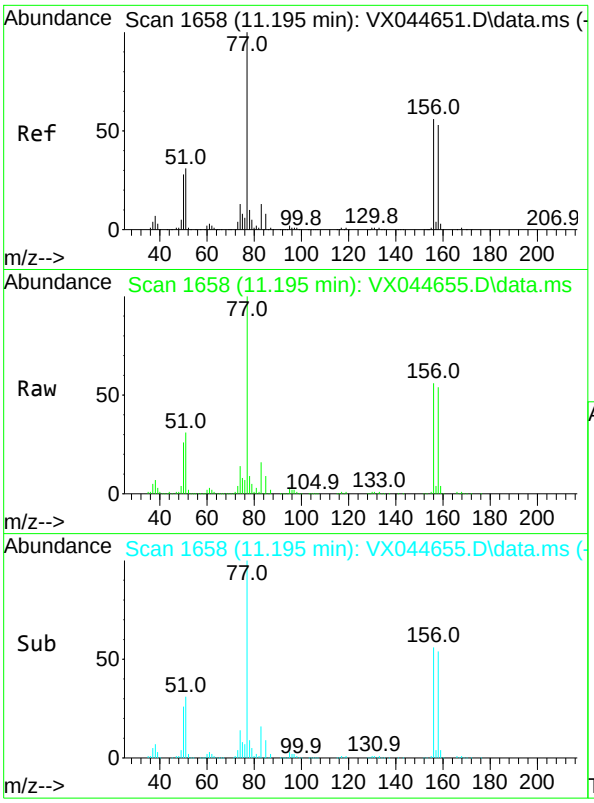




#76
1,2,3-Trichloropropane
Concen: 68.320 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 75 Resp: 191485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.8 | 23.4 | 70.2 |



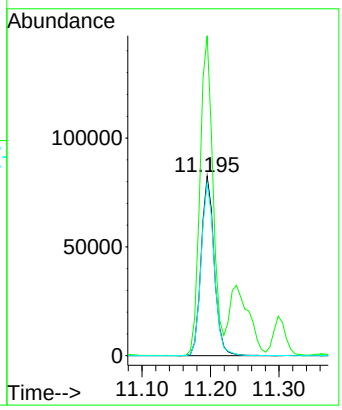


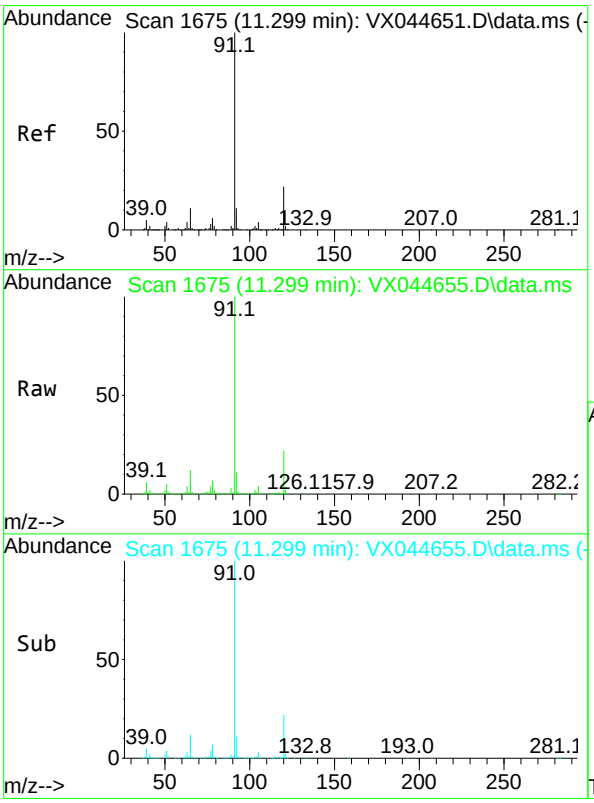

#77
Bromobenzene
Concen: 49.506 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:156 Resp: 109171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 178.2 | 90.3 | 271.0 |
| 158 | 97.0 | 48.4 | 145.3 |

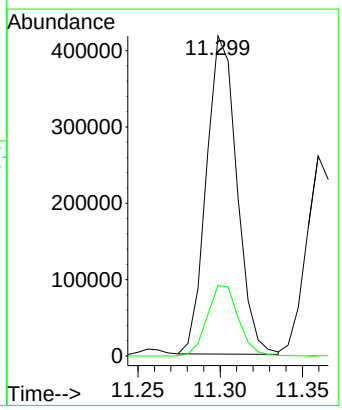


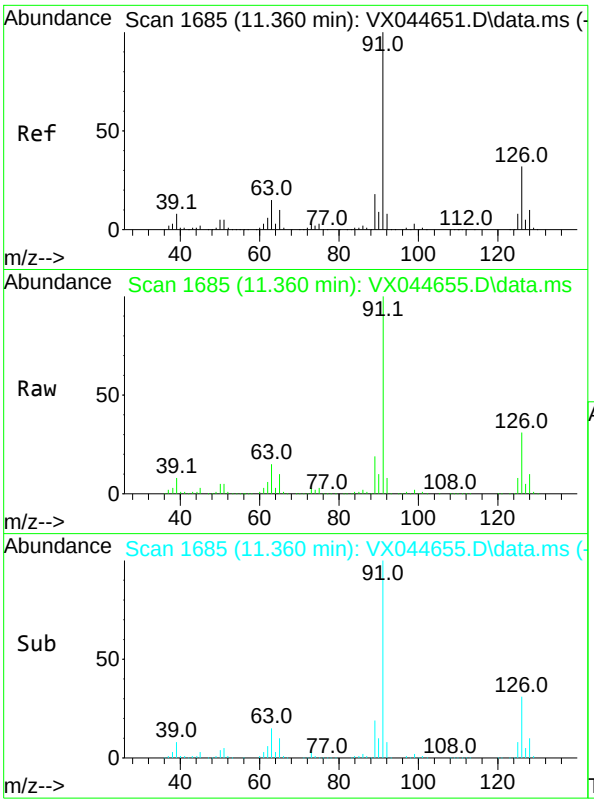




#78
n-propylbenzene
Concen: 51.712 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 91 Resp: 538048

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.7 | 11.4 | 34.1 |



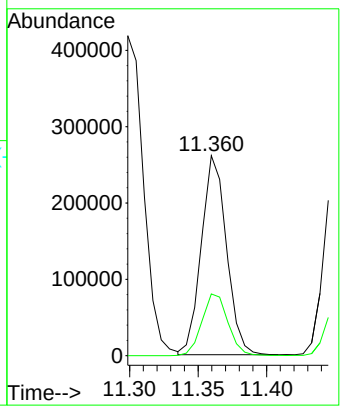


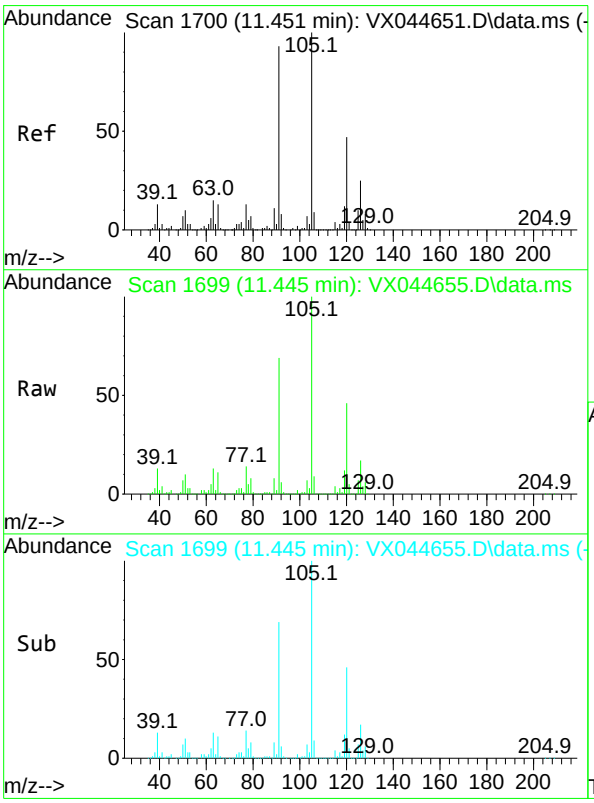

#79
2-Chlorotoluene
Concen: 49.678 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 91 Resp: 333891

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.3 | 16.2 | 48.5 |

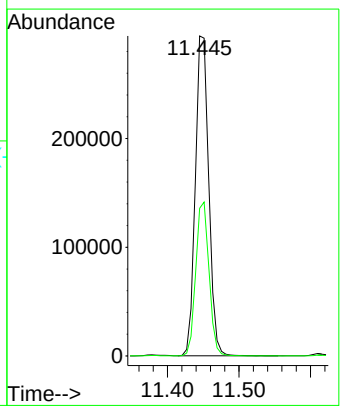


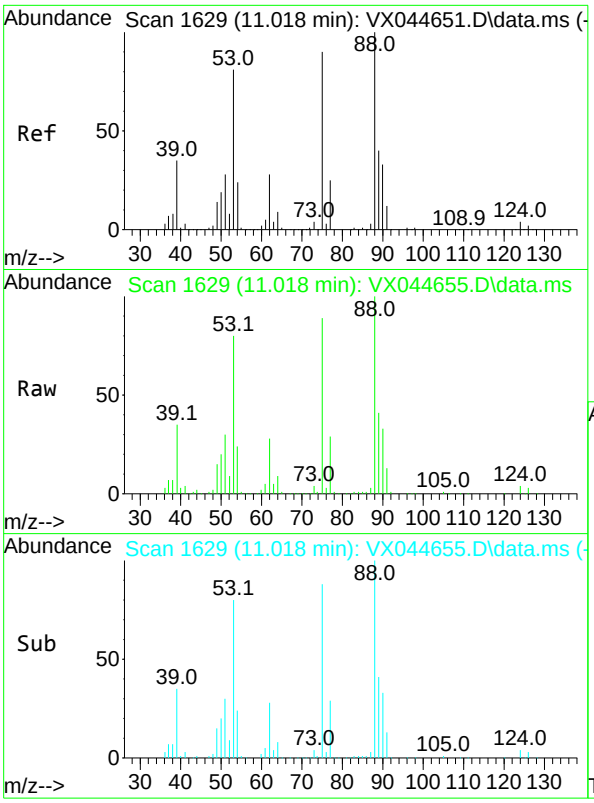




#80
1,3,5-Trimethylbenzene
Concen: 49.852 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. -0.006 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:105 Resp: 382880

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.6 | 23.7 | 71.1 |



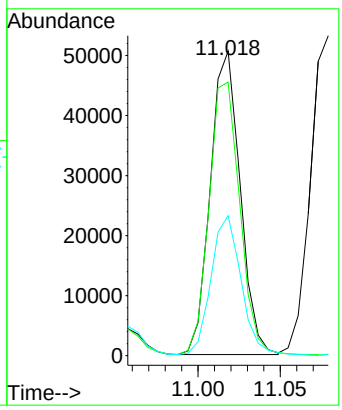


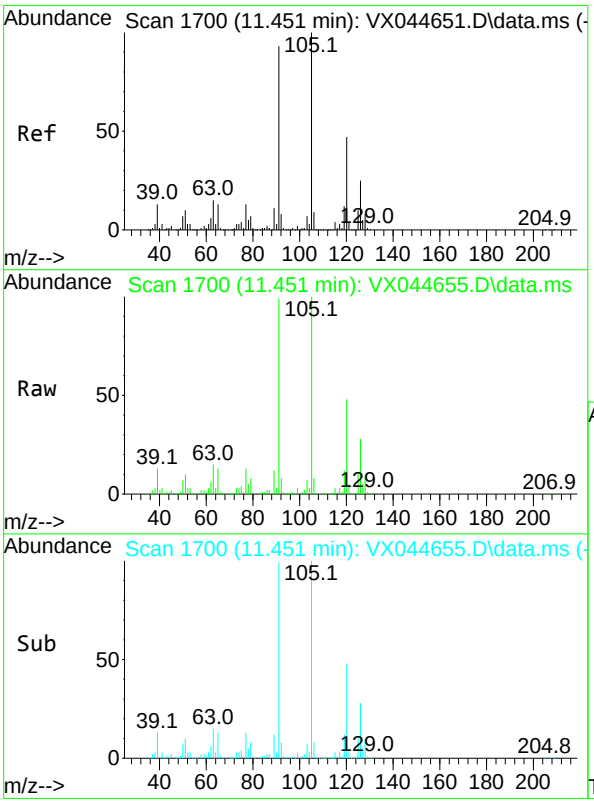

#81
trans-1,4-Dichloro-2-butene
Concen: 51.981 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 75 Resp: 63708

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 93.1 | 74.3 | 111.5 |
| 89 | 47.1 | 37.4 | 56.0 |

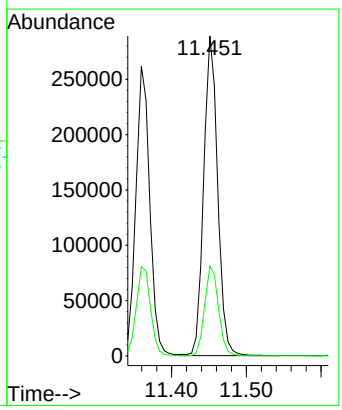


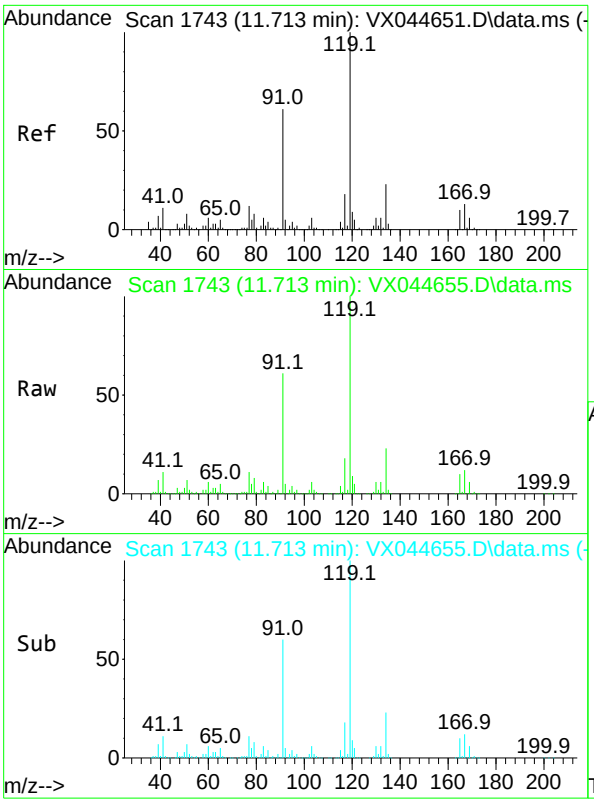




#82
4-Chlorotoluene
Concen: 50.750 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 91 Resp: 373655

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.1 | 13.9 | 41.7 |



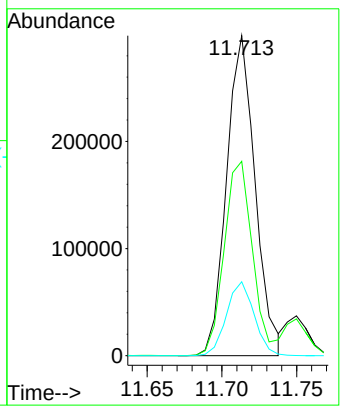


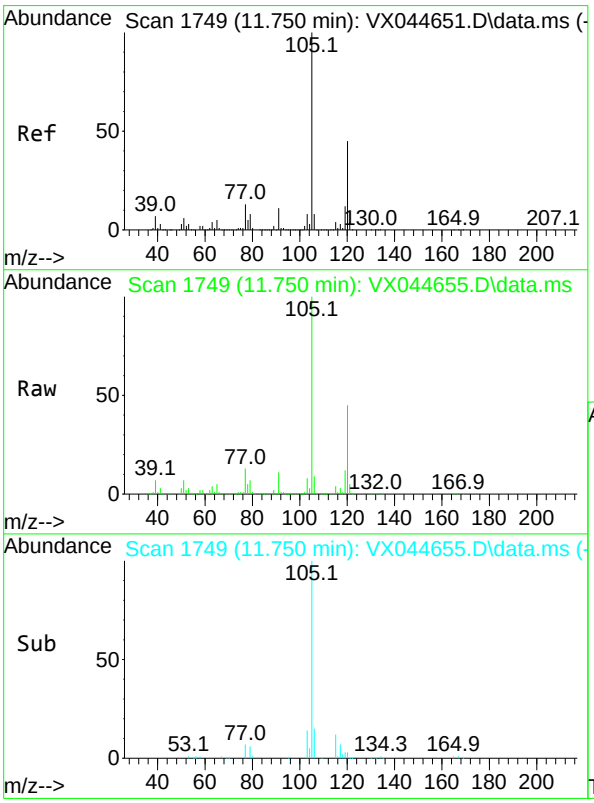

#83
tert-Butylbenzene
Concen: 49.459 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:119 Resp: 397191

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 60.8 | 30.0 | 90.0 |
| 134 | 22.4 | 11.2 | 33.5 |

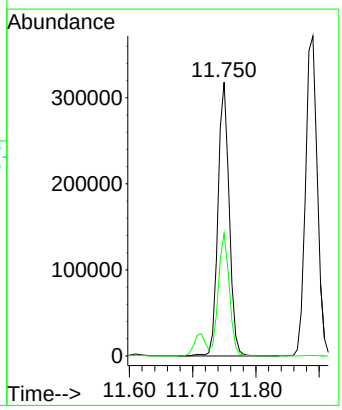


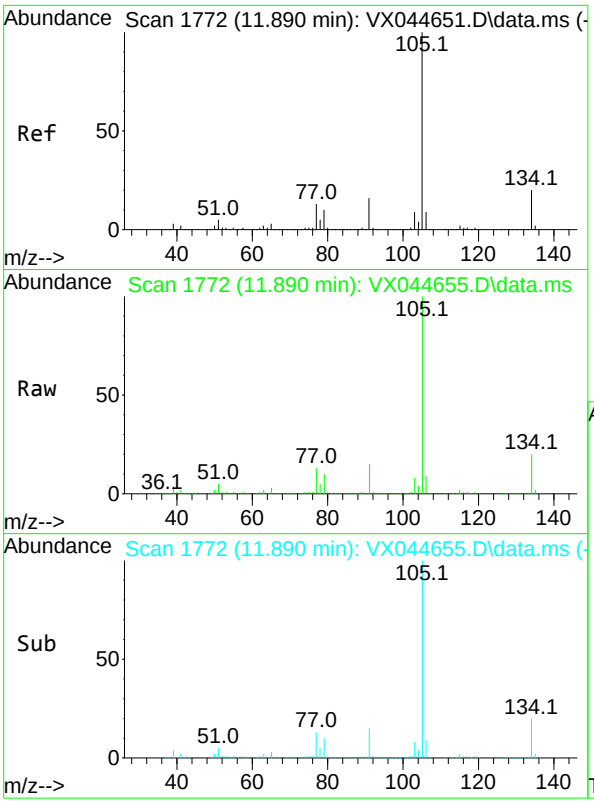




#84
1,2,4-Trimethylbenzene
Concen: 49.714 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:105 Resp: 388010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.2 | 22.2 | 66.6 |



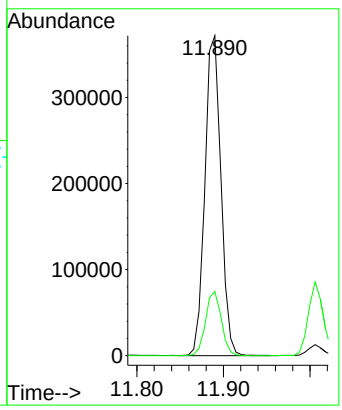


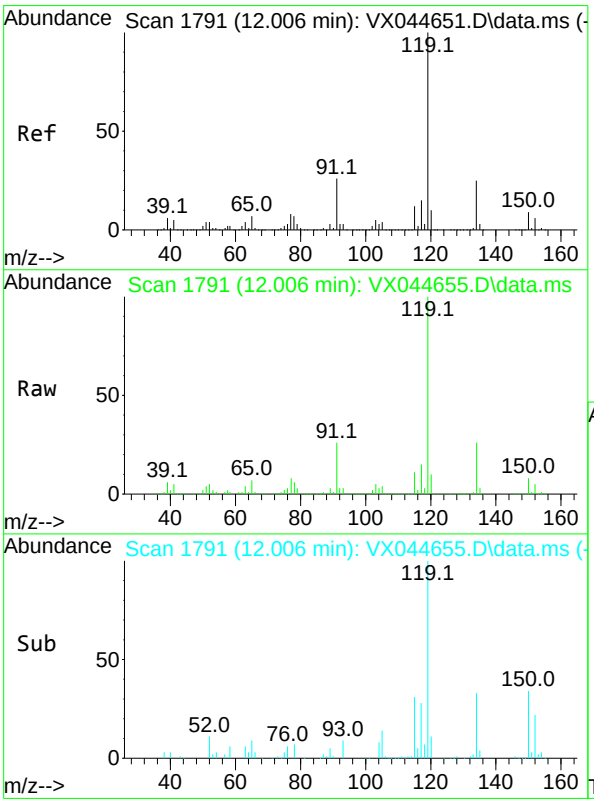

#85
sec-Butylbenzene
Concen: 51.076 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:105 Resp: 477595

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.8 | 9.8 | 29.5 |

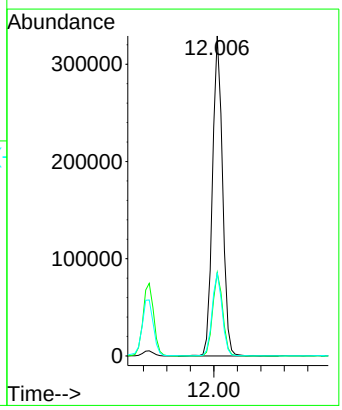


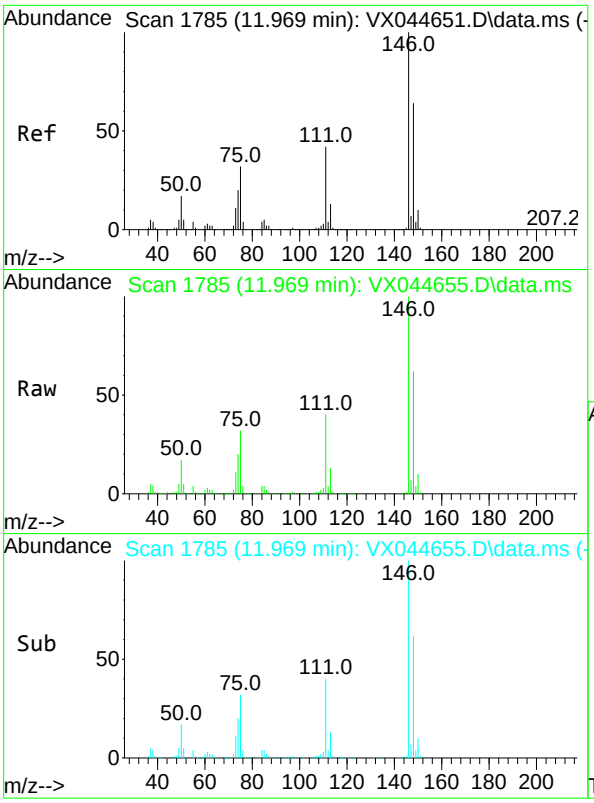




#86
p-Isopropyltoluene
Concen: 51.028 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:119 Resp: 392123

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 12.8 | 38.4 |
| 91 | 25.6 | 12.7 | 38.1 |



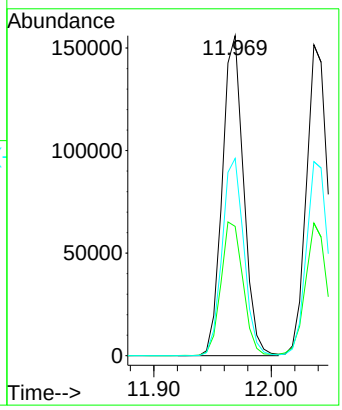


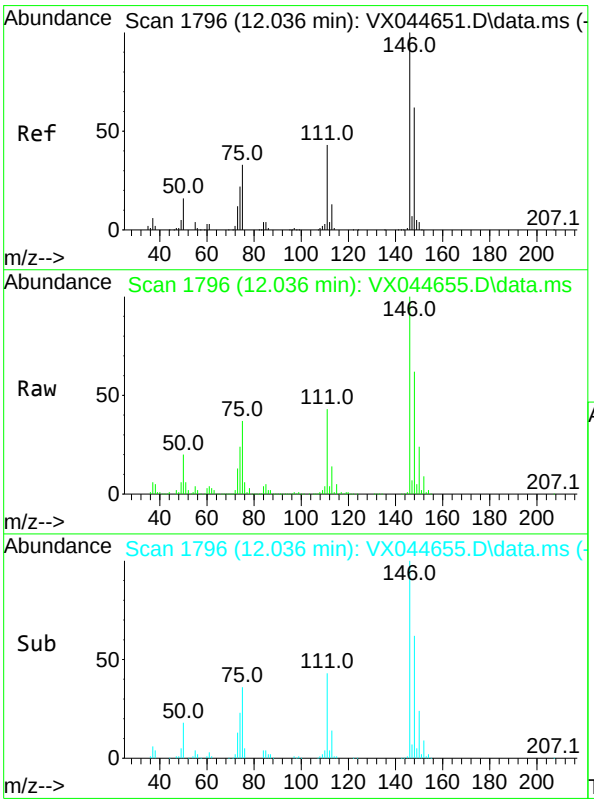

#87
1,3-Dichlorobenzene
Concen: 51.476 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:146 Resp: 196862

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.4 | 21.9 | 65.7 |
| 148 | 62.9 | 31.8 | 95.4 |

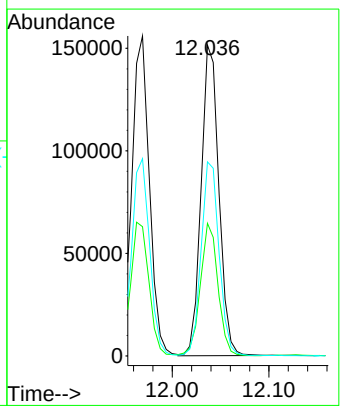


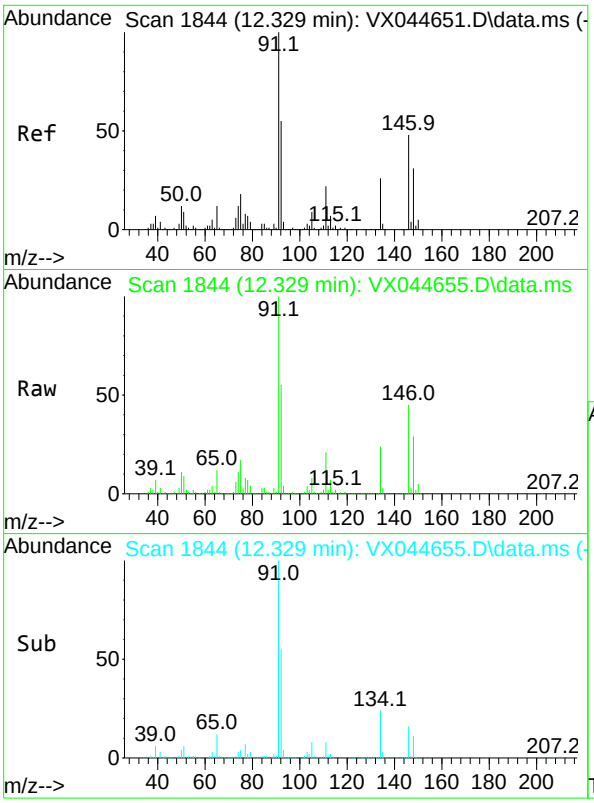




#88
1,4-Dichlorobenzene
Concen: 50.011 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:146 Resp: 193343

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.3 | 21.5 | 64.5 |
| 148 | 63.7 | 32.1 | 96.5 |



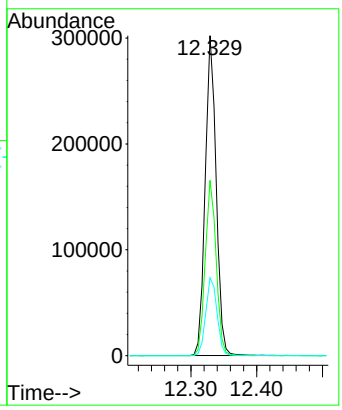


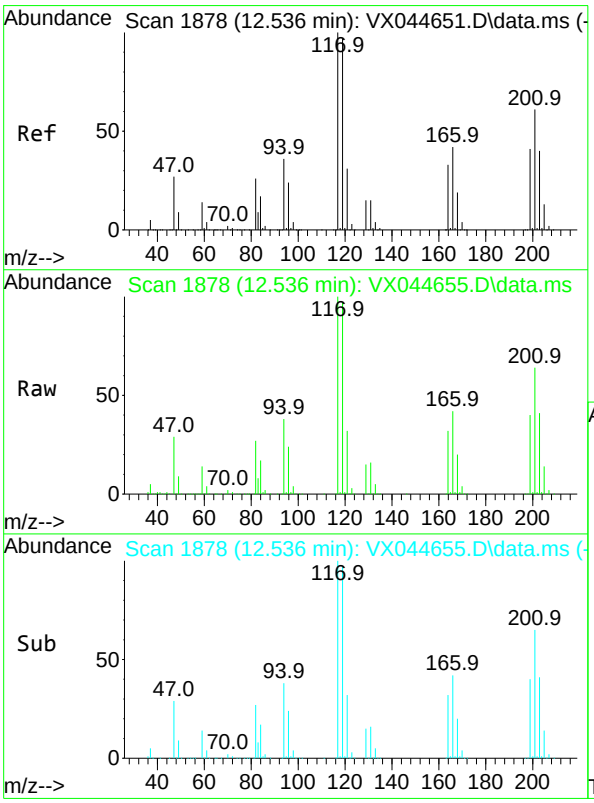

#89
n-Butylbenzene
Concen: 53.136 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion: 91 Resp: 350704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.0 | 27.4 | 82.0 |
| 134 | 25.1 | 12.8 | 38.3 |

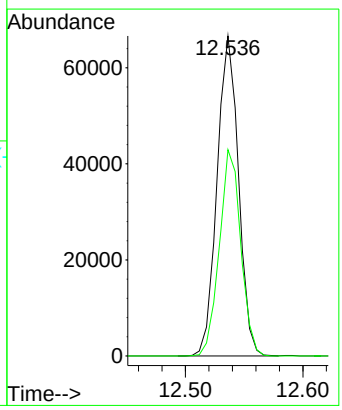


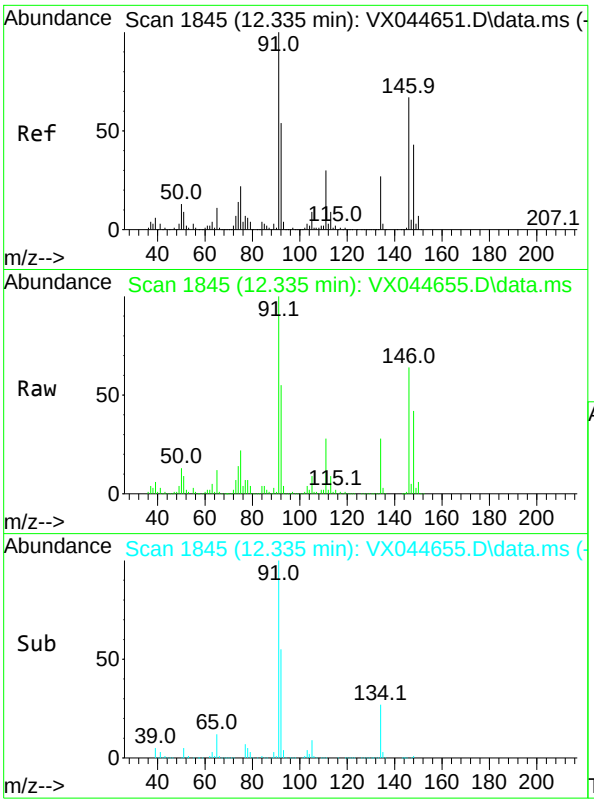




#90
Hexachloroethane
Concen: 48.518 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:117 Resp: 84427

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.4 | 32.3 | 96.8 |



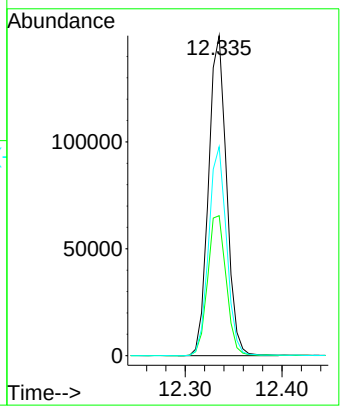


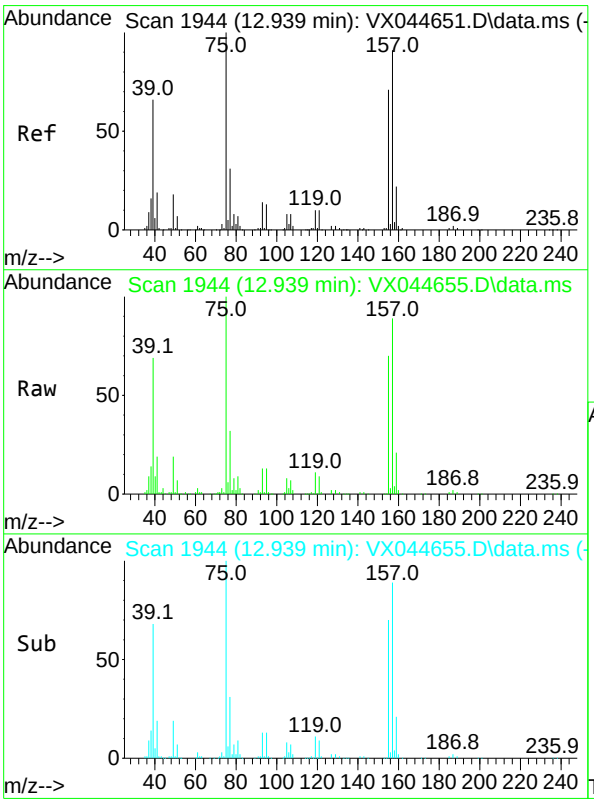

#91
1,2-Dichlorobenzene
Concen: 49.430 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:146 Resp: 194138

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 45.4 | 22.4 | 67.2 |
| 148 | 64.9 | 31.6 | 94.8 |

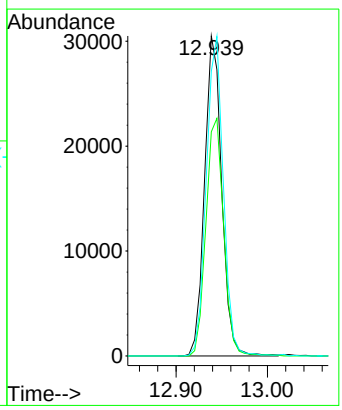


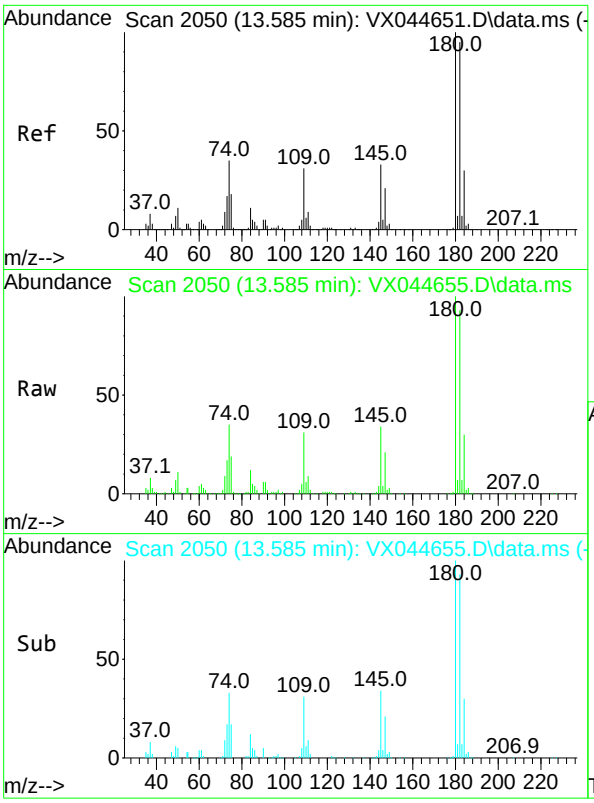




#92
1,2-Dibromo-3-Chloropropane
Concen: 49.672 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion: 75 Resp: 39583

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 76.9 | 39.0 | 116.9 |
| 157 | 99.4 | 49.9 | 149.7 |



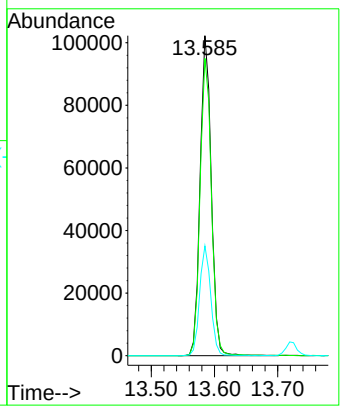


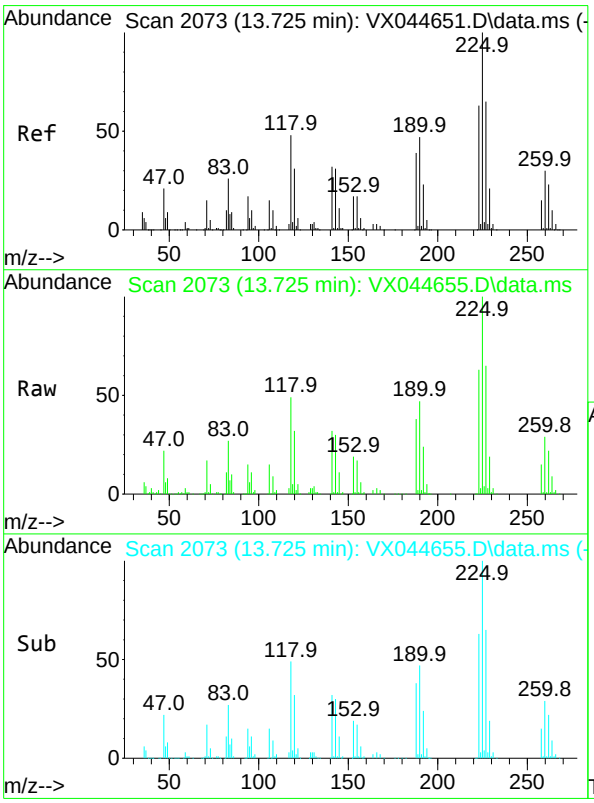

#93
1,2,4-Trichlorobenzene
Concen: 53.362 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:180 Resp: 125286

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.5 | 47.4 | 142.2 |
| 145 | 34.3 | 16.7 | 50.1 |

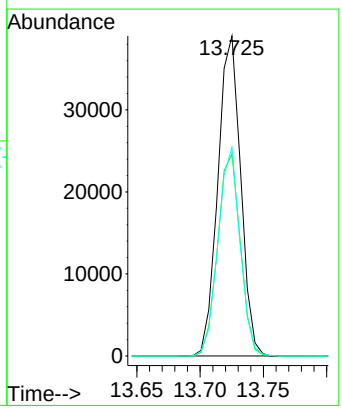


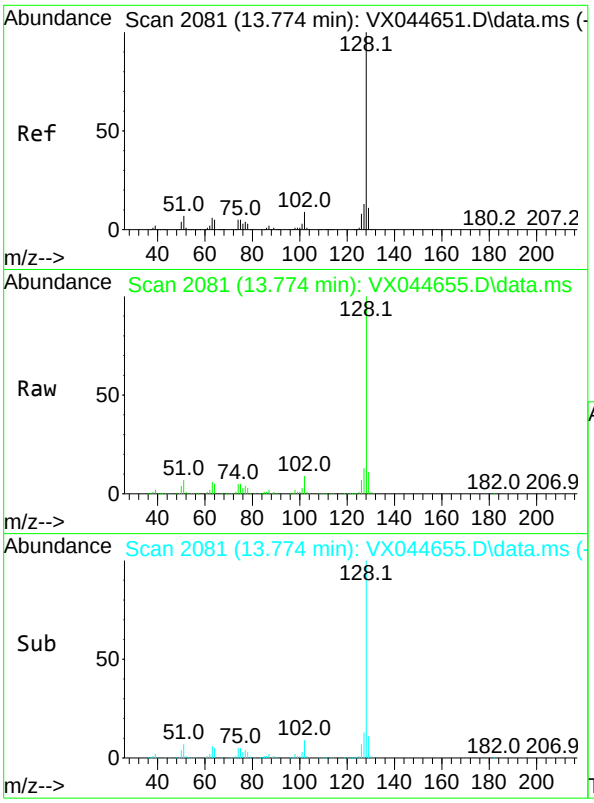




#94
Hexachlorobutadiene
Concen: 52.807 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:225 Resp: 48702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 31.9 | 95.7 |
| 227 | 63.0 | 31.8 | 95.4 |



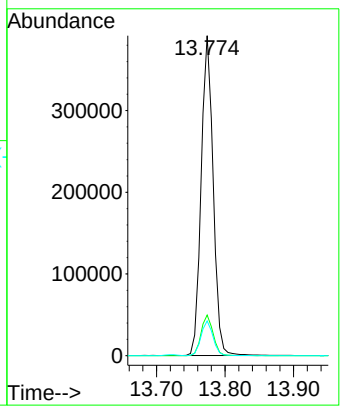


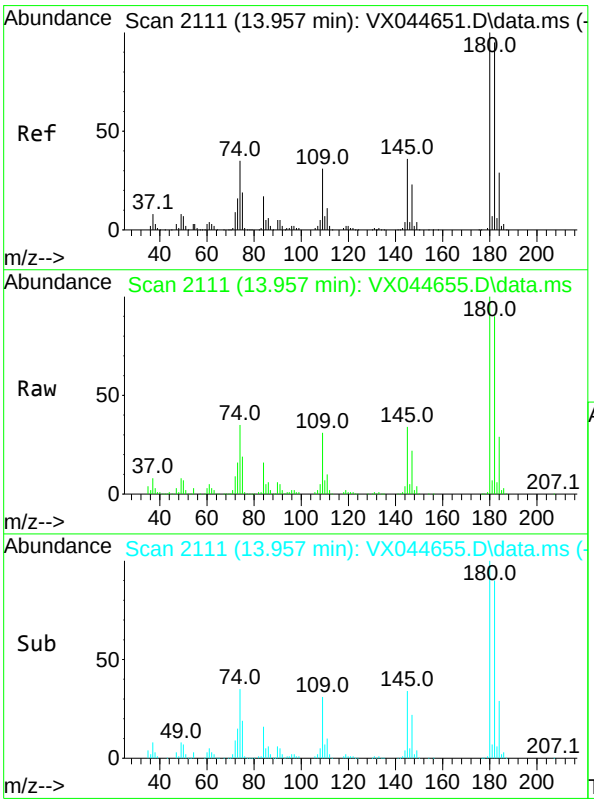

#95
Naphthalene
Concen: 52.899 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

**Instrument :**
MSVOA_X
**ClientSampleId :**
ICVVX011525

Tgt Ion:128 Resp: 479024

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.7 | 10.3 | 15.5 |
| 129 | 10.9 | 8.7 | 13.1 |

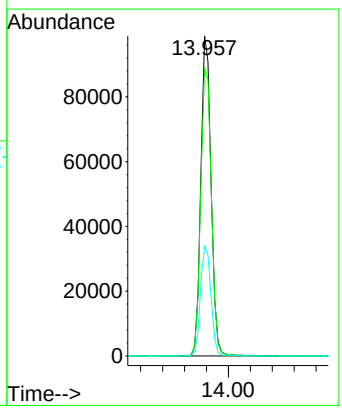



#96
1,2,3-Trichlorobenzene
Concen: 52.611 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. 0.000 min
Lab File: VX044655.D
Acq: 15 Jan 2025 15:15

Tgt Ion:180 Resp: 128038

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.8 | 47.2 | 141.6 |
| 145 | 35.2 | 17.5 | 52.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.537 | 168 | 172369 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.751 | 114 | 318376 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 277935 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 123095 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 123157 | 47.336 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 94.680% | | | |
| 35) Dibromofluoromethane | 5.373 | 113 | 100788 | 49.831 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 99.660% | | | |
| 50) Toluene-d8 | 8.641 | 98 | 355984 | 50.477 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 100.960% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 134456 | 51.142 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 102.280% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 111623 | 48.124 | ug/l | 97 |
| 3) Chloromethane | 1.294 | 50 | 133778 | 53.335 | ug/l | 100 |
| 4) Vinyl Chloride | 1.374 | 62 | 129310 | 52.177 | ug/l | 100 |
| 5) Bromomethane | 1.593 | 94 | 31277 | 52.854 | ug/l | 97 |
| 6) Chloroethane | 1.660 | 64 | 35857 | 78.899 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.867 | 101 | 134485 | 49.099 | ug/l | 98 |
| 8) Diethyl Ether | 2.130 | 74 | 47069 | 42.582 | ug/l | 94 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 105487 | 51.232 | ug/l | 99 |
| 10) Methyl Iodide | 2.440 | 142 | 140845 | 50.103 | ug/l | 97 |
| 11) Tert butyl alcohol | 2.971 | 59 | 66132 | 114.016 | ug/l # | 78 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 105513 | 52.279 | ug/l | 92 |
| 13) Acrolein | 2.233 | 56 | 148664 | 544.657 | ug/l | 99 |
| 14) Allyl chloride | 2.654 | 41 | 200142 | 50.932 | ug/l | 97 |
| 15) Acrylonitrile | 3.056 | 53 | 304312 | 267.495 | ug/l | 98 |
| 16) Acetone | 2.379 | 43 | 247835 | 240.764 | ug/l | 96 |
| 17) Carbon Disulfide | 2.501 | 76 | 291079 | 52.854 | ug/l | 99 |
| 18) Methyl Acetate | 2.696 | 43 | 169609 | 53.407 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 378923 | 51.834 | ug/l | 100 |
| 20) Methylene Chloride | 2.782 | 84 | 126568 | 52.799 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.081 | 96 | 106458 | 50.522 | ug/l | 96 |
| 22) Diisopropyl ether | 3.751 | 45 | 382549 | 56.003 | ug/l | 98 |
| 23) Vinyl Acetate | 3.715 | 43 | 1630552 | 272.725 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 213198 | 52.632 | ug/l | 100 |
| 25) 2-Butanone | 4.550 | 43 | 404966 | 264.600 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.464 | 77 | 181991 | 46.357 | ug/l | 97 |
| 27) cis-1,2-Dichloroethene | 4.477 | 96 | 135384 | 51.078 | ug/l | 99 |
| 28) Bromochloromethane | 4.885 | 49 | 97603 | 51.564 | ug/l | 98 |
| 29) Tetrahydrofuran | 4.995 | 42 | 260029 | 263.398 | ug/l | 98 |
| 30) Chloroform | 5.080 | 83 | 207551 | 50.771 | ug/l | 96 |
| 31) Cyclohexane | 5.452 | 56 | 176773 | 53.957 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.367 | 97 | 170957 | 45.490 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 137792 | 48.940 | ug/l | 99 |
| 37) Ethyl Acetate | 4.702 | 43 | 160916 | 53.669 | ug/l | 99 |
| 38) Carbon Tetrachloride | 5.665 | 117 | 144163 | 45.521 | ug/l | 98 |
| 39) Methylcyclohexane | 7.372 | 83 | 191285 | 51.179 | ug/l | 98 |
| 40) Benzene | 6.025 | 78 | 452521 | 51.868 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.910 | 41 | 91356 | 52.289 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.074 | 62 | 155155 | 48.725 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.330 | 43 | 284981 | 51.667 | ug/l | | 100 |
| 44) Trichloroethene | 7.116 | 130 | 105738 | 50.413 | ug/l | | 98 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 116931 | 53.245 | ug/l | | 98 |
| 46) Dibromomethane | 7.574 | 93 | 83999 | 50.244 | ug/l | | 100 |
| 47) Bromodichloromethane | 7.811 | 83 | 170245 | 49.656 | ug/l | | 98 |
| 48) Methyl methacrylate | 7.683 | 41 | 137818 | 53.829 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.665 | 88 | 52981 | 991.841 | ug/l | | 99 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 805406 | 264.229 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 275176 | 51.531 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.970 | 75 | 185440 | 52.351 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 196861 | 51.254 | ug/l | | 100 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 111881 | 51.785 | ug/l | | 99 |
| 56) Ethyl methacrylate | 9.110 | 69 | 196250 | 52.829 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 193983 | 52.726 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.232 | 63 | 450749 | 247.155 | ug/l | | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 578675 | 258.046 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.518 | 129 | 130942 | 51.638 | ug/l | | 99 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 116099 | 51.277 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.268 | 164 | 84859 | 48.623 | ug/l | | 98 |
| 65) Chlorobenzene | 10.073 | 112 | 301484 | 51.069 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 104268 | 48.599 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 520975 | 50.576 | ug/l | | 98 |
| 68) m/p-Xylenes | 10.299 | 106 | 390083 | 102.049 | ug/l | | 99 |
| 69) o-Xylene | 10.640 | 106 | 193241 | 49.989 | ug/l | | 99 |
| 70) Styrene | 10.652 | 104 | 331210 | 53.068 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 86906 | 49.769 | ug/l | # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 480397 | 47.772 | ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 240430 | 48.507 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 169562 | 48.822 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 193809 | 64.877 | ug/l | | 78 |
| 77) Bromobenzene | 11.195 | 156 | 116886 | 49.729 | ug/l | | 99 |
| 78) n-propylbenzene | 11.299 | 91 | 562742 | 50.743 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 348599 | 48.661 | ug/l | | 100 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 402748 | 49.198 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 64582 | 49.439 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 396992 | 50.588 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 402232 | 46.992 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 404571 | 48.633 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 491434 | 49.309 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 404929 | 49.439 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 212027 | 52.016 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 211171 | 51.247 | ug/l | | 98 |
| 89) n-Butylbenzene | 12.329 | 91 | 370043 | 52.602 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 85234 | 45.956 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 205003 | 48.972 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 34674 | 40.823 | ug/l | | 98 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 132044 | 52.765 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 48609 | 49.450 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 484495 | 50.197 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 133922 | 51.628 | ug/l | | 100 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

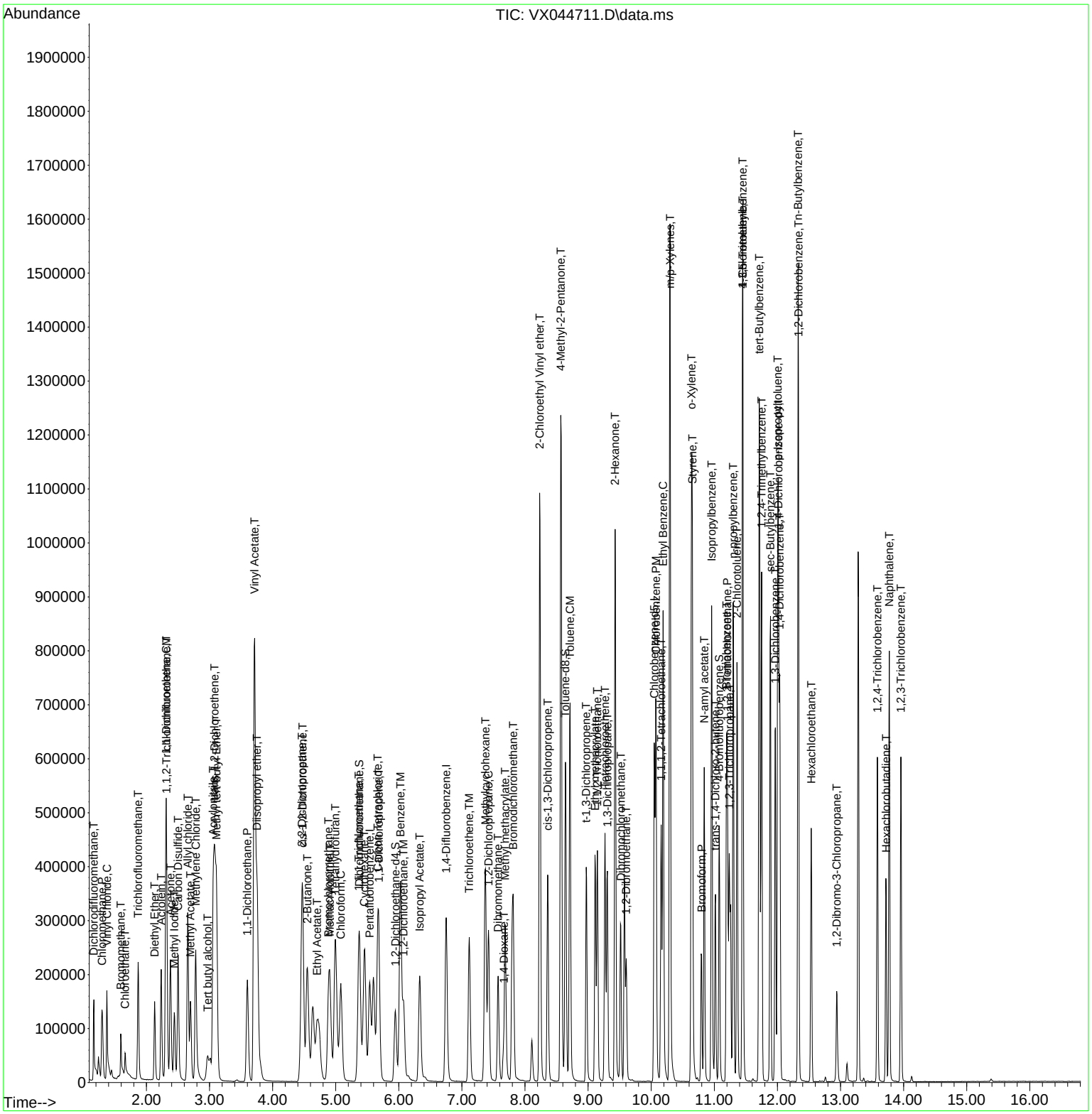
(#) = qualifier out of range (m) = manual integration (+) = signals summed

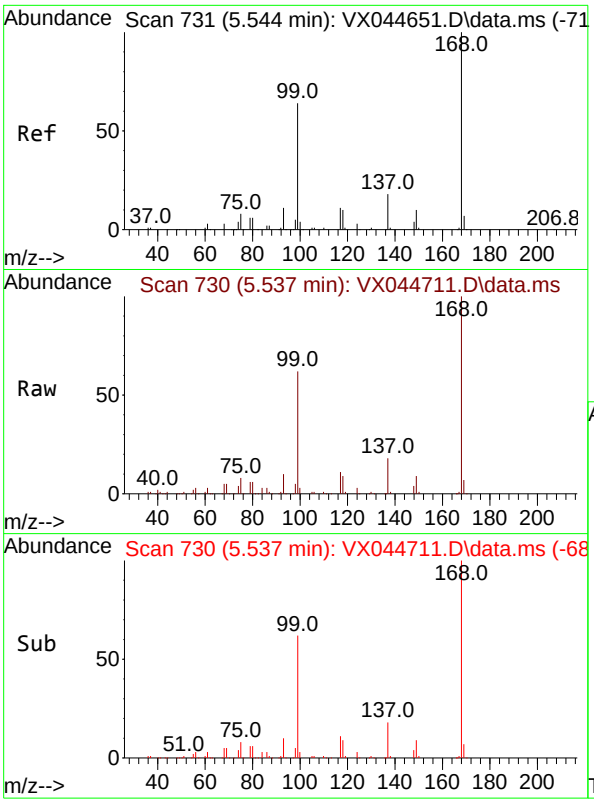
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044711.D
Acq On : 27 Jan 2025 10:08
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 2 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Quant Time: Jan 28 04:06:42 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



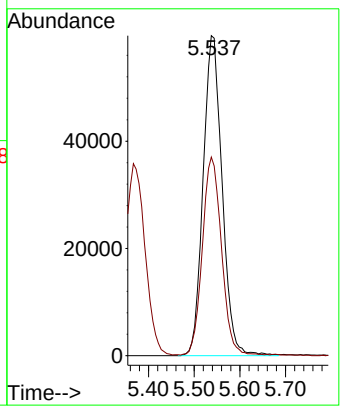


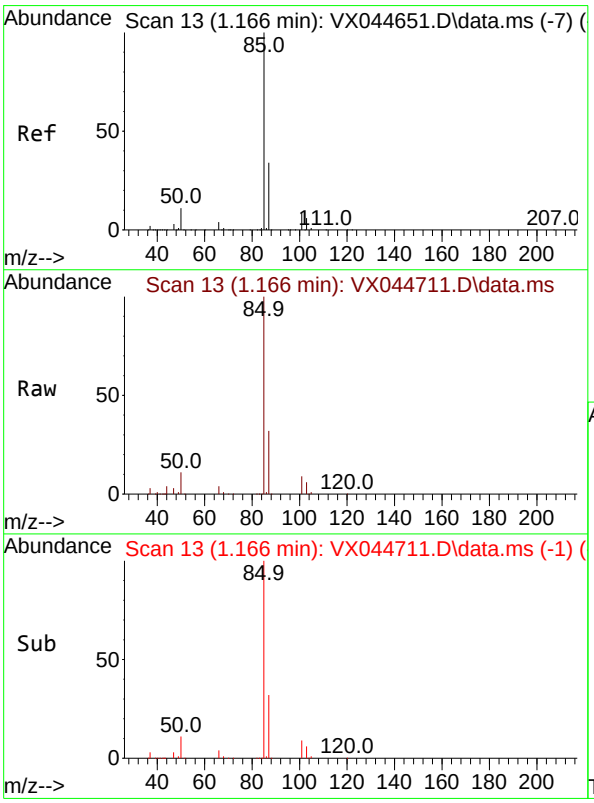

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 7
Delta R.T. -0.007 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:168 Resp: 172369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 61.8 | 51.1 | 76.7 |

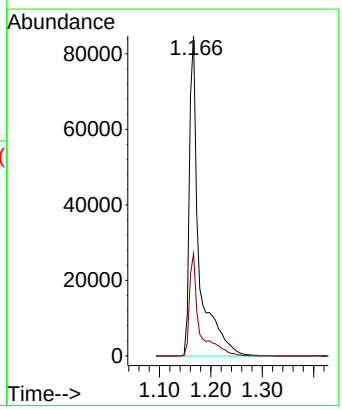


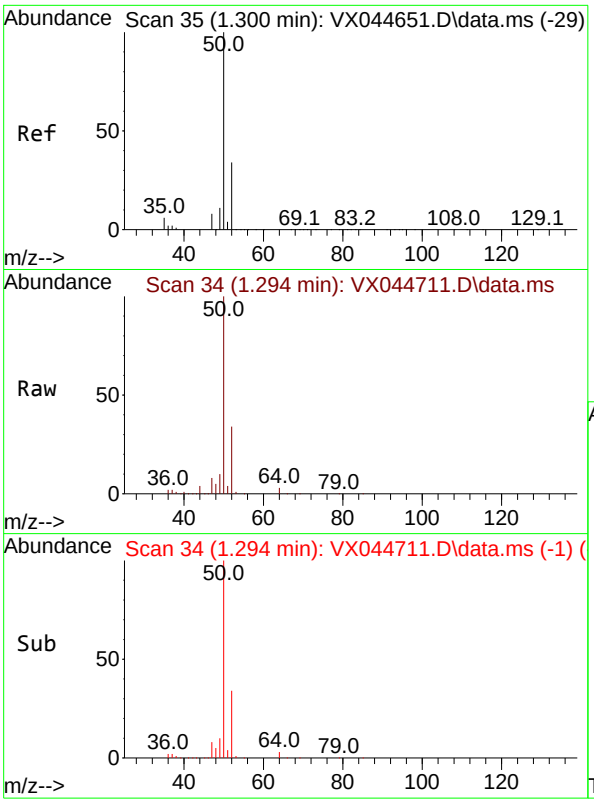




#2
Dichlorodifluoromethane
Concen: 48.124 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 85 Resp: 111623

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.0 | 16.8 | 50.4 |



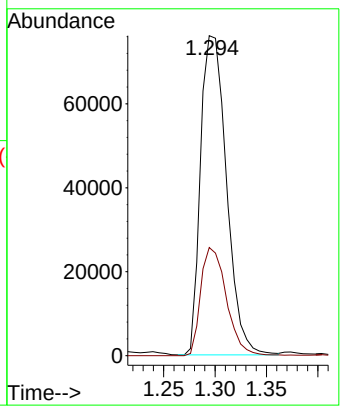


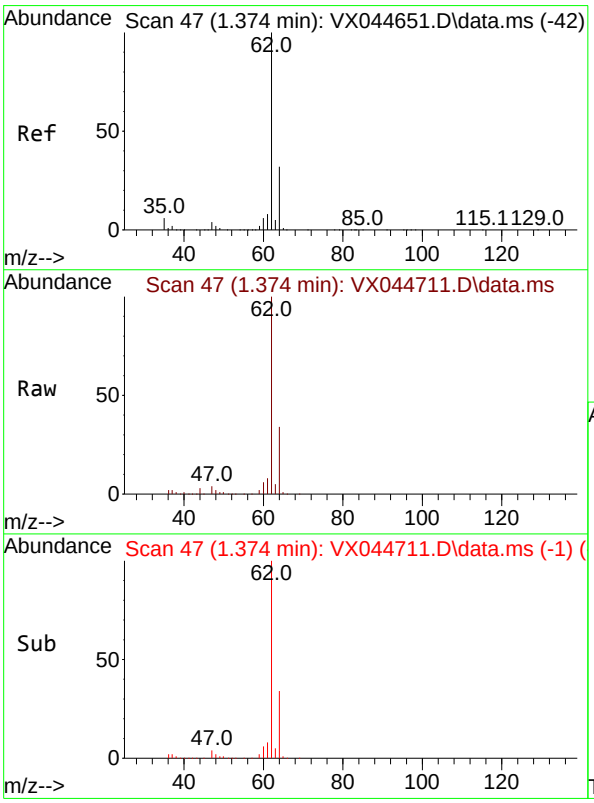

#3
Chloromethane
Concen: 53.335 ug/l
RT: 1.294 min Scan# 34
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 50 Resp: 133778

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 33.9 | 27.0 | 40.4 |

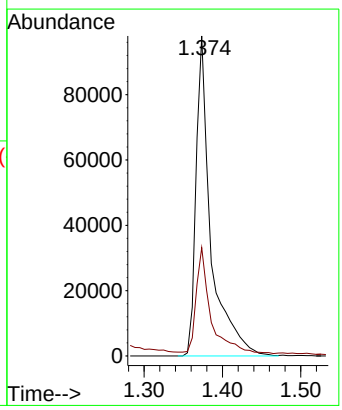


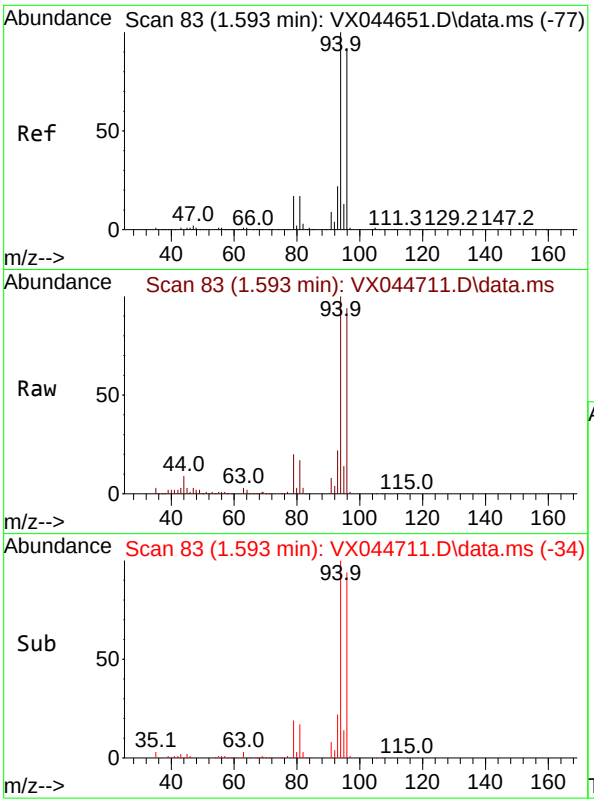




#4
Vinyl Chloride
Concen: 52.177 ug/l
RT: 1.374 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 62 Resp: 129310

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.9 | 26.6 | 39.8 |



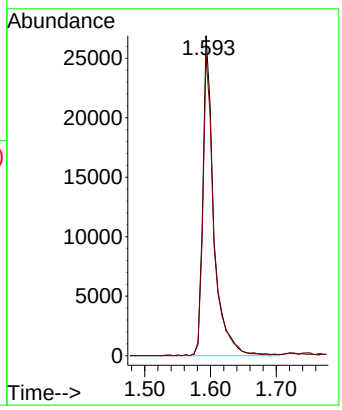


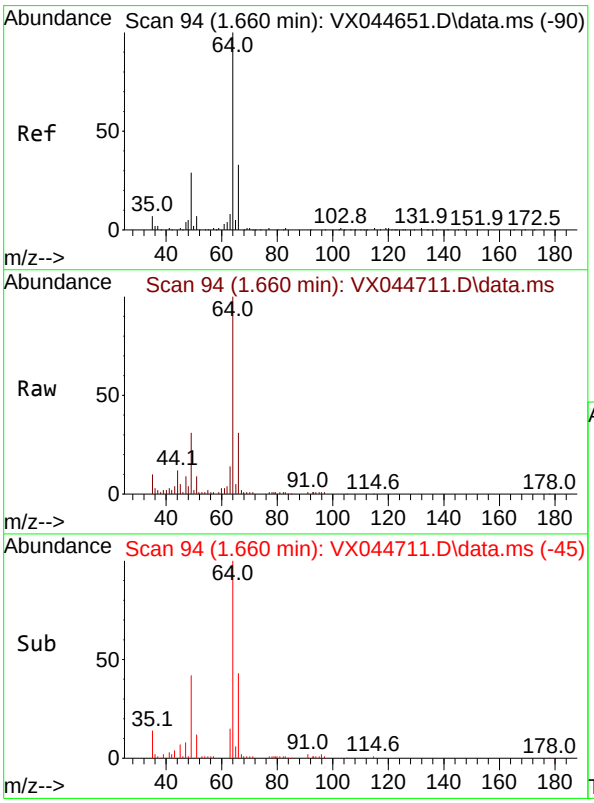

#5
Bromomethane
Concen: 52.854 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 94 Resp: 31277

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 93.5 | 72.8 | 109.2 |

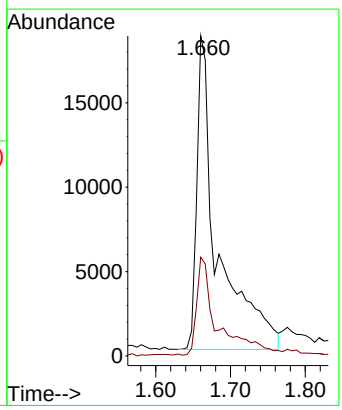


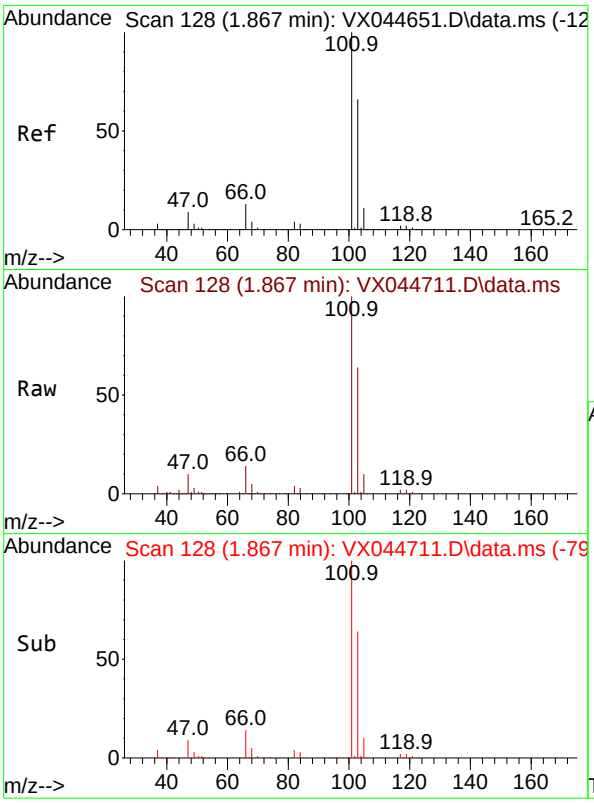




#6
Chloroethane
Concen: 78.899 ug/l
RT: 1.660 min Scan# 94
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 64 Resp: 35857

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.9 | 26.6 | 39.8 |



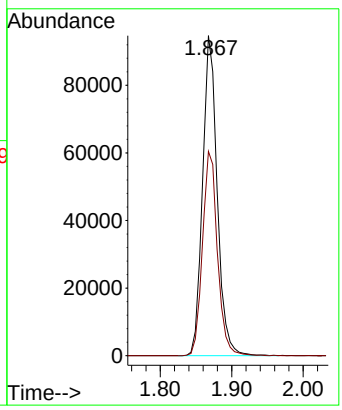


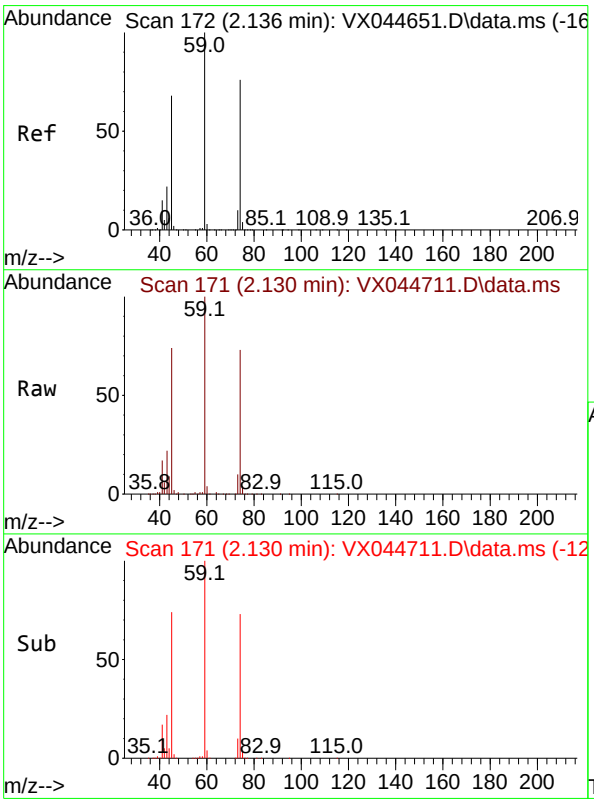

#7
Trichlorofluoromethane
Concen: 49.099 ug/l
RT: 1.867 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 134485

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.8 | 52.5 | 78.7 |

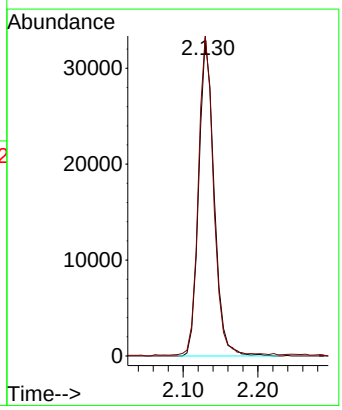


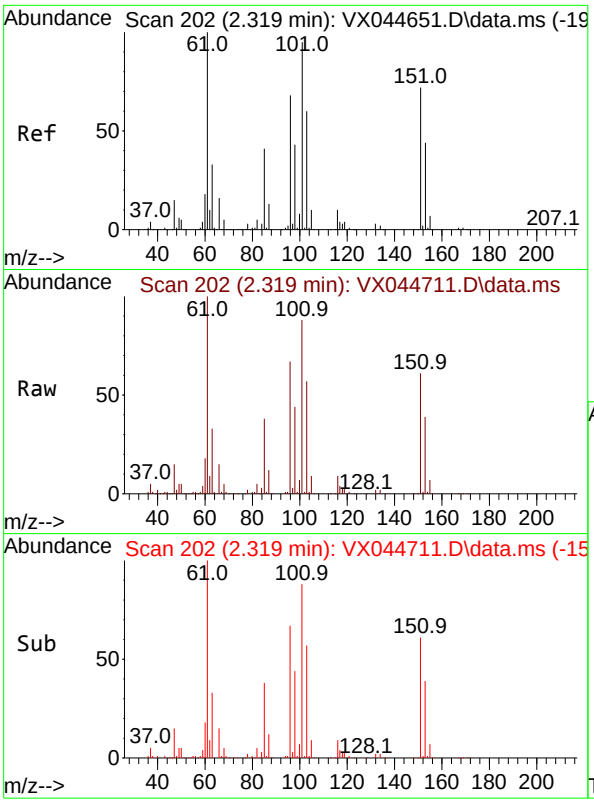




#8
Diethyl Ether
Concen: 42.582 ug/l
RT: 2.130 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 74 Resp: 47069

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 100.0 | 47.1 | 141.3 |



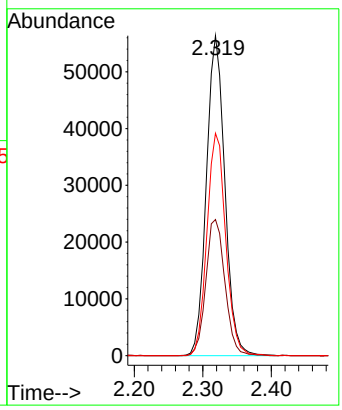


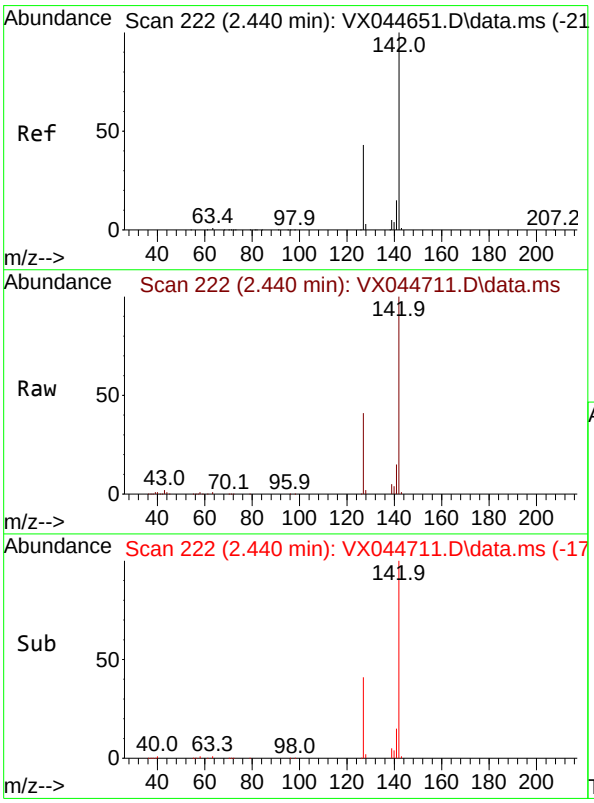

#9
1,1,2-Trichlorotrifluoroethane
Concen: 51.232 ug/l
RT: 2.319 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:101 Resp: 105487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.2 | 35.3 | 52.9 |
| 151 | 70.9 | 58.2 | 87.4 |

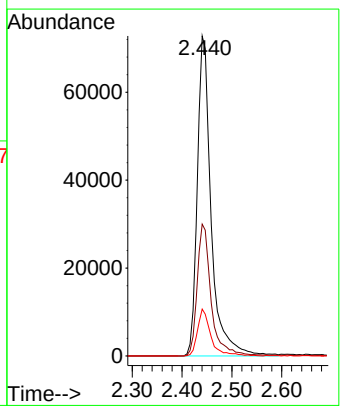


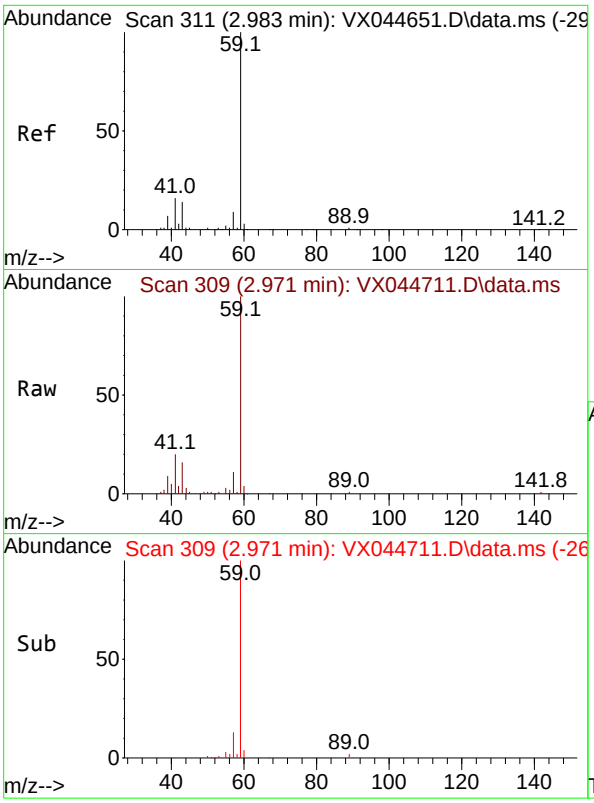




#10
Methyl Iodide
Concen: 50.103 ug/l
RT: 2.440 min Scan# 222
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:142 Resp: 140845

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 41.6 | 35.0 | 52.4 |
| 141 | 14.1 | 11.7 | 17.5 |



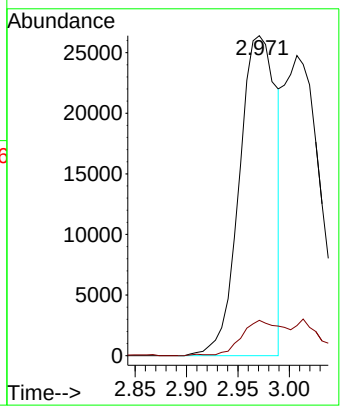


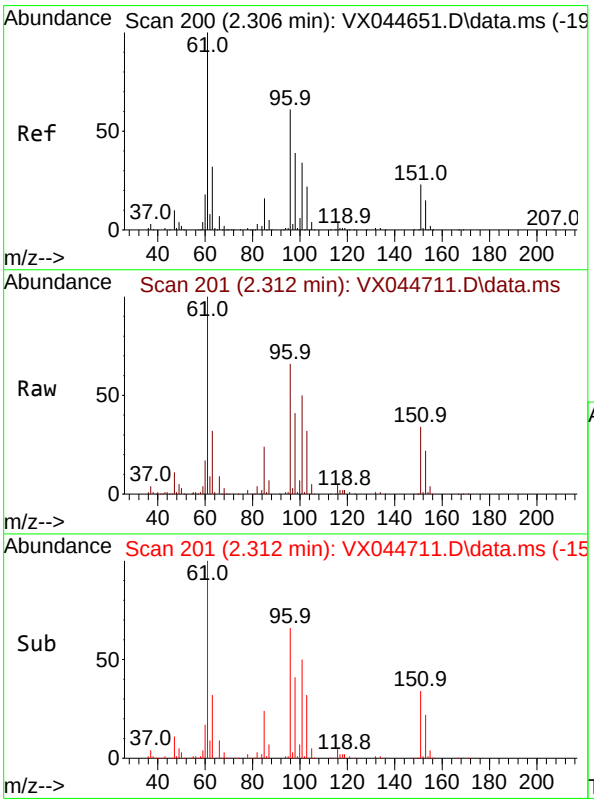

#11
Tert butyl alcohol
Concen: 114.016 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 59 Resp: 66132

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 12.2 | 3.9 | 5.9# |

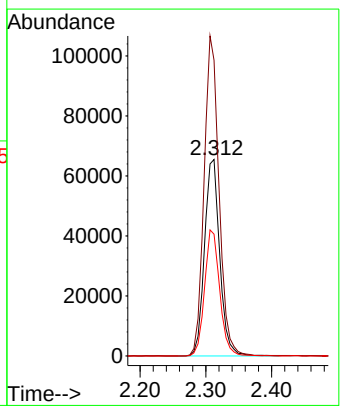


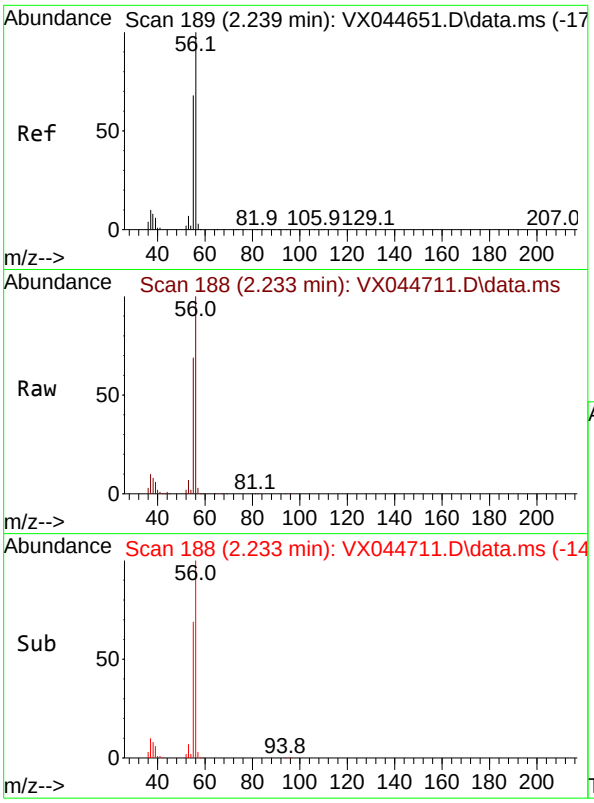




#12
1,1-Dichloroethene
Concen: 52.279 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 96 Resp: 105513

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 150.4 | 131.1 | 196.7 |
| 98 | 62.0 | 51.2 | 76.8 |



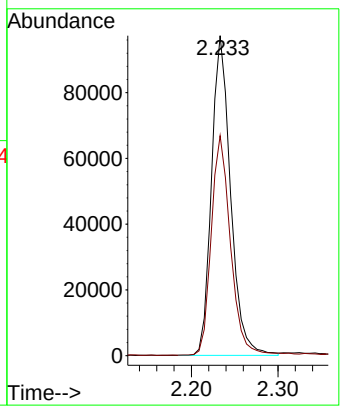


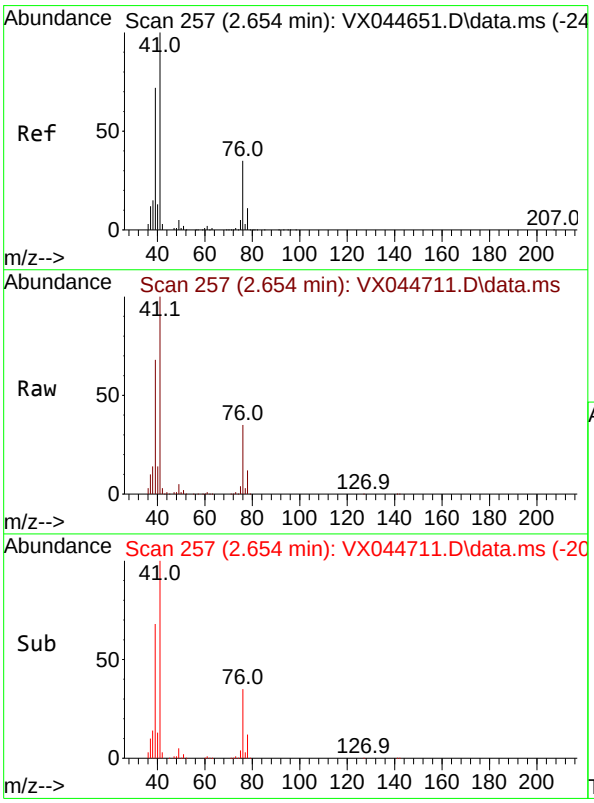

#13
Acrolein
Concen: 544.657 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 148664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.5 | 55.1 | 82.7 |

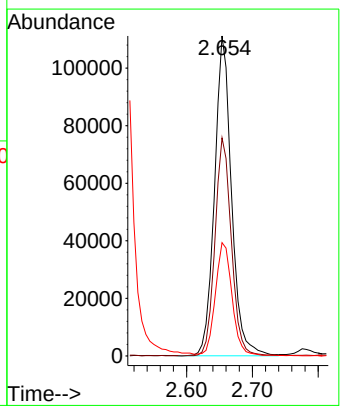


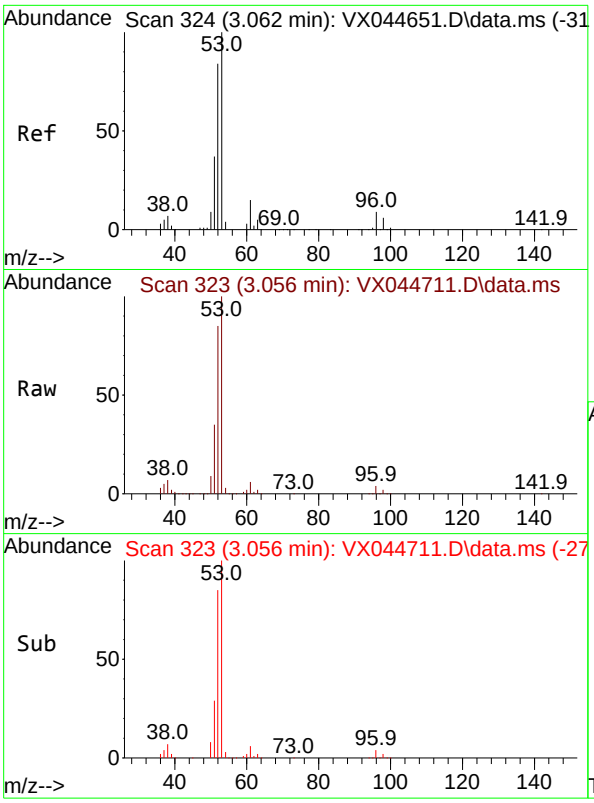




#14
Allyl chloride
Concen: 50.932 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 41 Resp: 200142

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.0 | 54.9 | 82.3 |
| 76 | 34.4 | 28.4 | 42.6 |



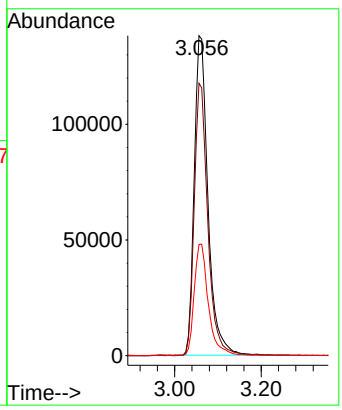


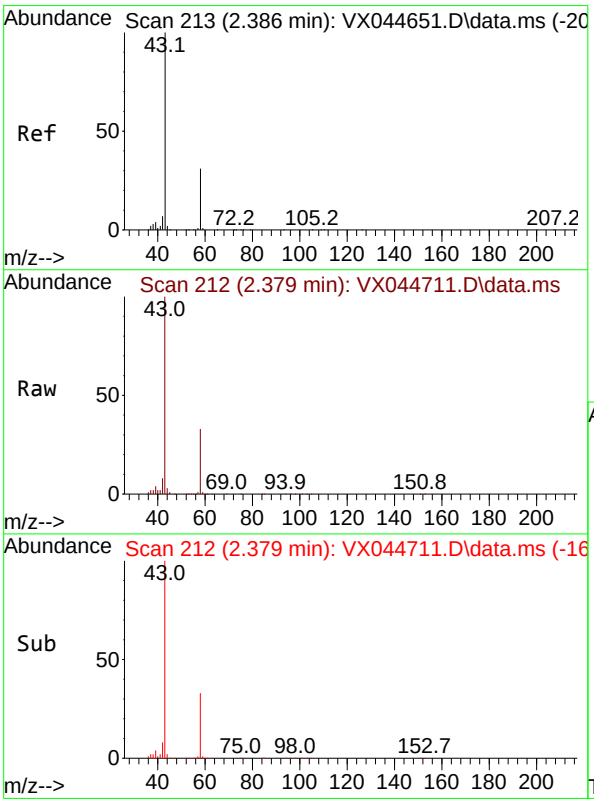

#15
Acrylonitrile
Concen: 267.495 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 53 Resp: 304312

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 84.3 | 66.0 | 99.0 |
| 51 | 35.7 | 28.9 | 43.3 |

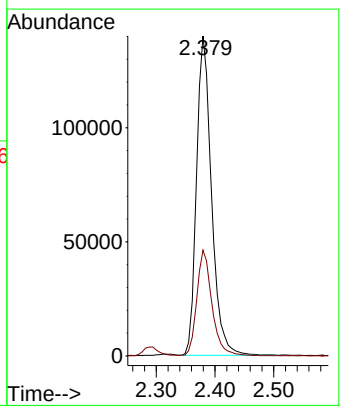


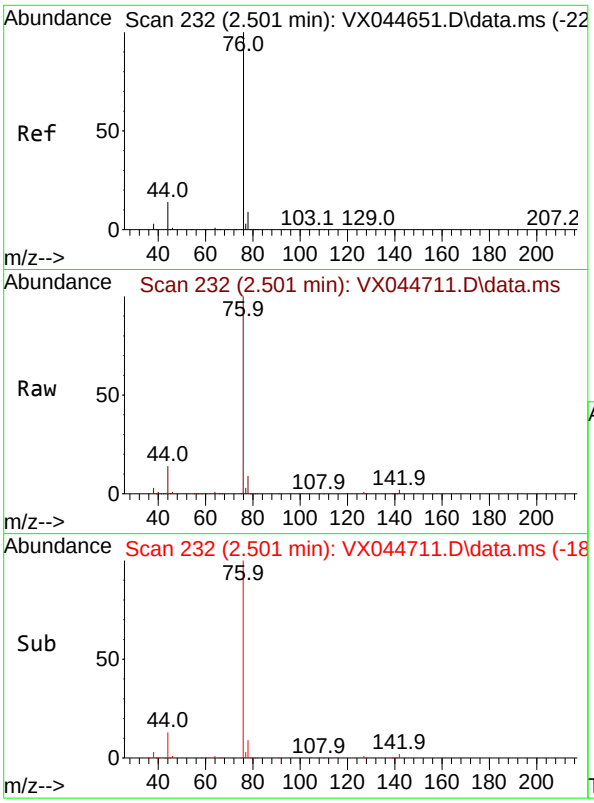




#16
Acetone
Concen: 240.764 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 43 Resp: 247835

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.0 | 24.6 | 37.0 |



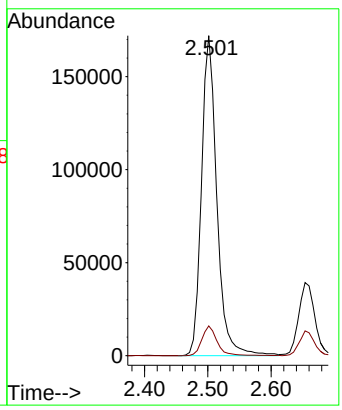


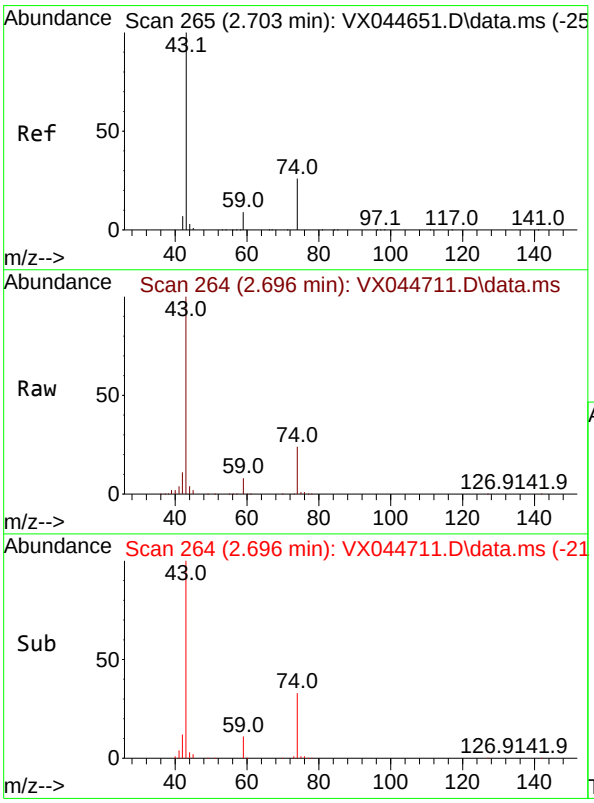

#17
Carbon Disulfide
Concen: 52.854 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 291079

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.3 | 7.1 | 10.7 |

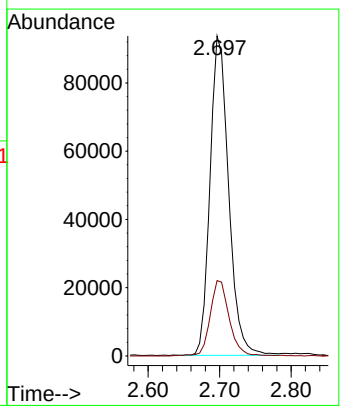


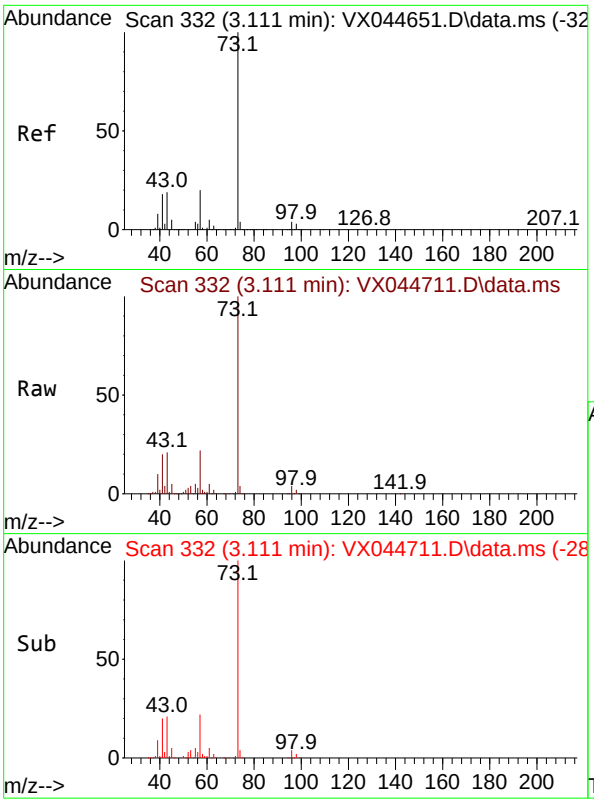




#18
Methyl Acetate
Concen: 53.407 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 43 Resp: 169609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.3 | 19.8 | 29.8 |



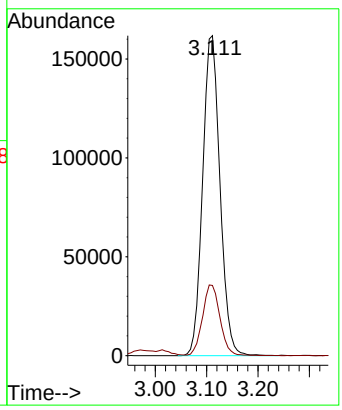


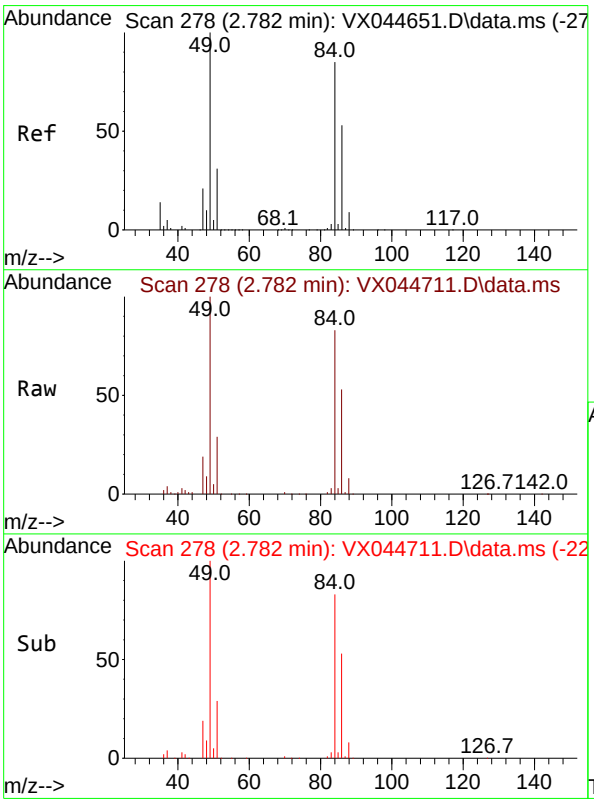

#19
Methyl tert-butyl Ether
Concen: 51.834 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 73 Resp: 378923

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 21.9 | 17.4 | 26.0 |

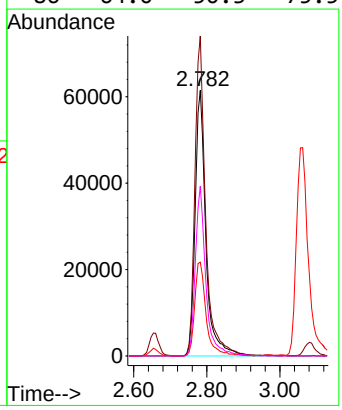


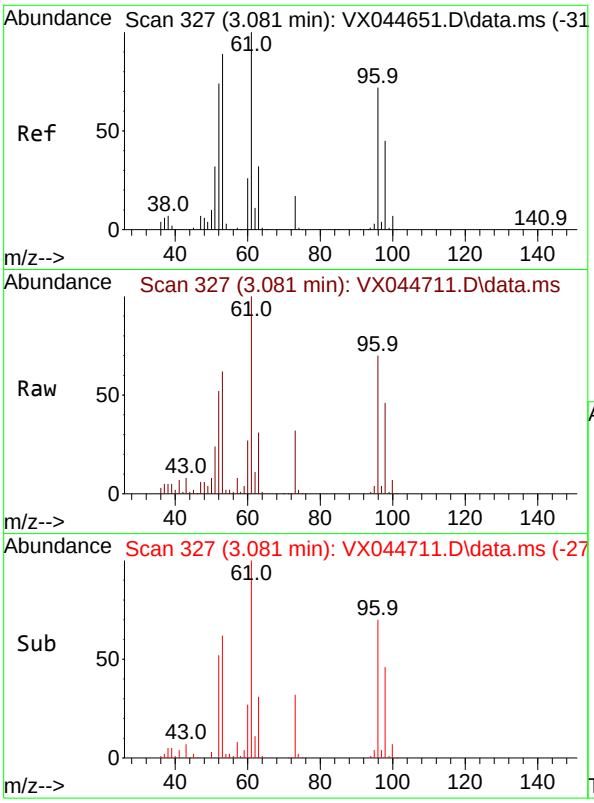




#20
Methylene Chloride
Concen: 52.799 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 84 Resp: 126568

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 120.5 | 94.2 | 141.4 |
| 51 | 35.3 | 28.8 | 43.2 |
| 86 | 64.0 | 50.3 | 75.5 |



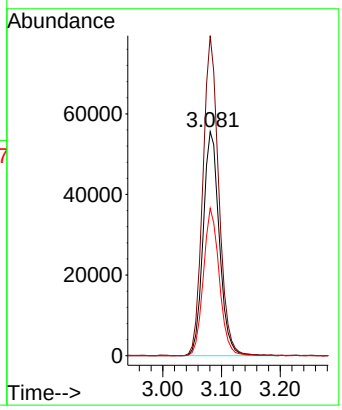


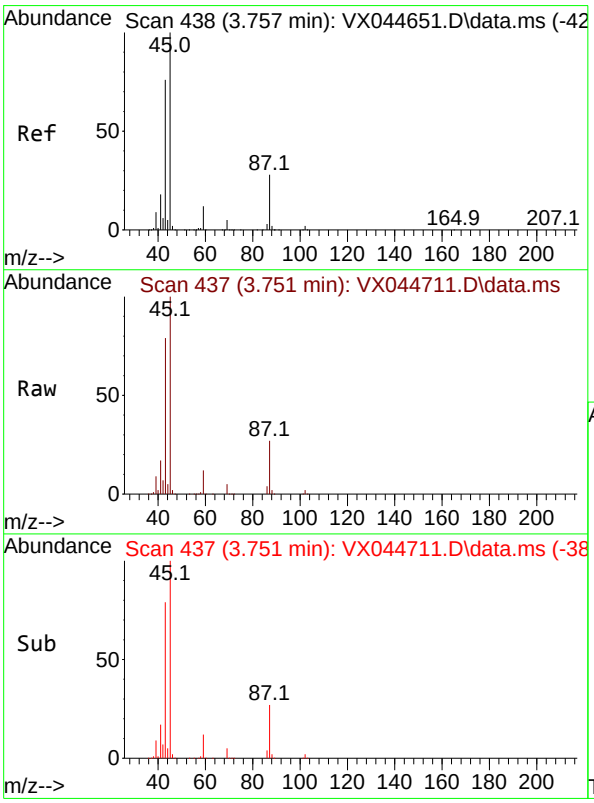

#21
trans-1,2-Dichloroethene
Concen: 50.522 ug/l
RT: 3.081 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 106458

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 142.8 | 111.0 | 166.6 |
| 98 | 65.9 | 50.2 | 75.2 |

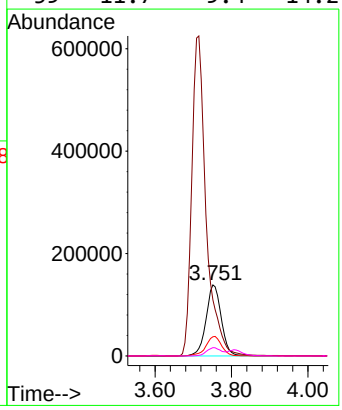


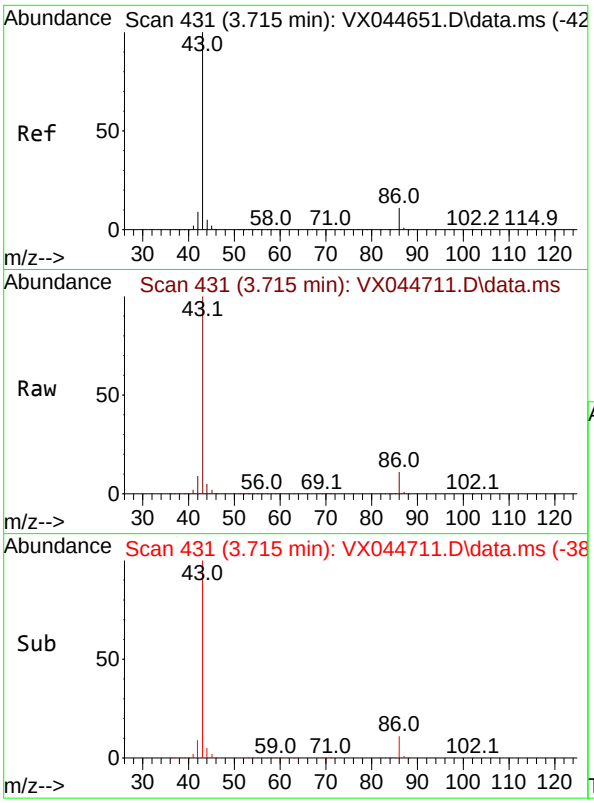




#22
Diisopropyl ether
Concen: 56.003 ug/l
RT: 3.751 min Scan# 437
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 45 Resp: 382549

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 78.7 | 61.0 | 91.6 |
| 87 | 27.0 | 22.7 | 34.1 |
| 59 | 11.7 | 9.4 | 14.2 |



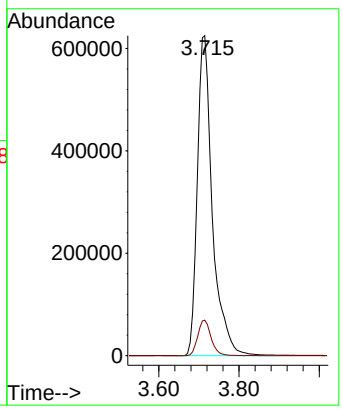


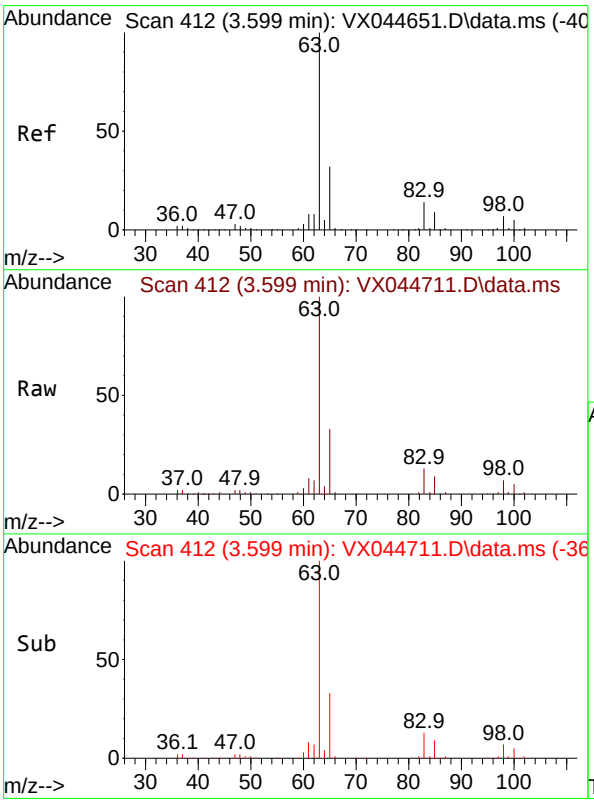

#23
Vinyl Acetate
Concen: 272.725 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 1630552

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.1 | 8.9 | 13.3 |

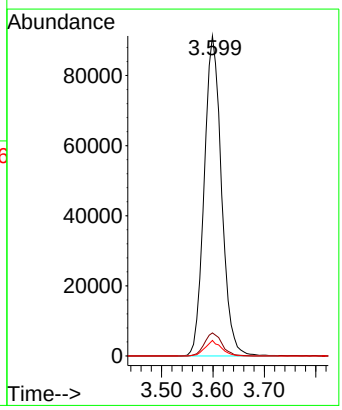


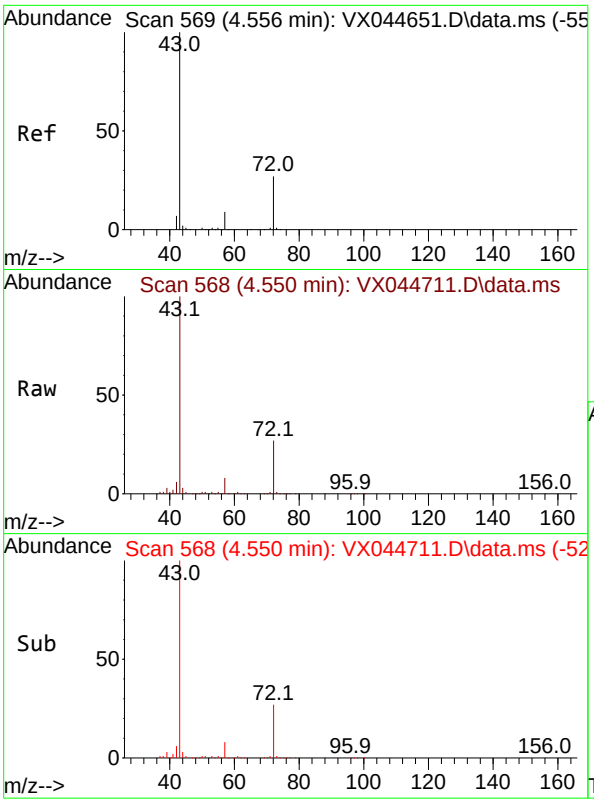




#24
1,1-Dichloroethane
Concen: 52.632 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 63 Resp: 213198

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.6 | 10.9 |
| 100 | 4.9 | 2.5 | 7.5 |



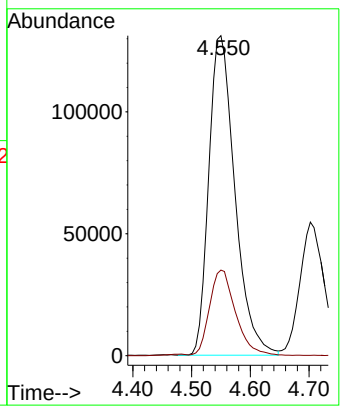


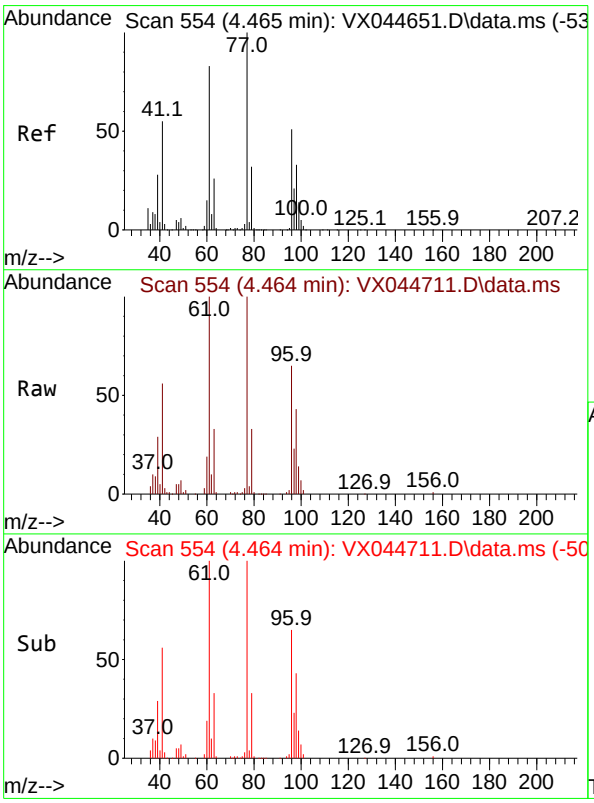

#25
2-Butanone
Concen: 264.600 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 404966

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.5 | 21.7 | 32.5 |

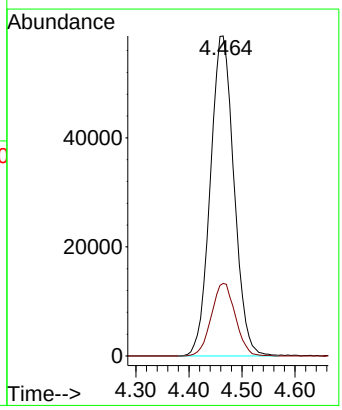


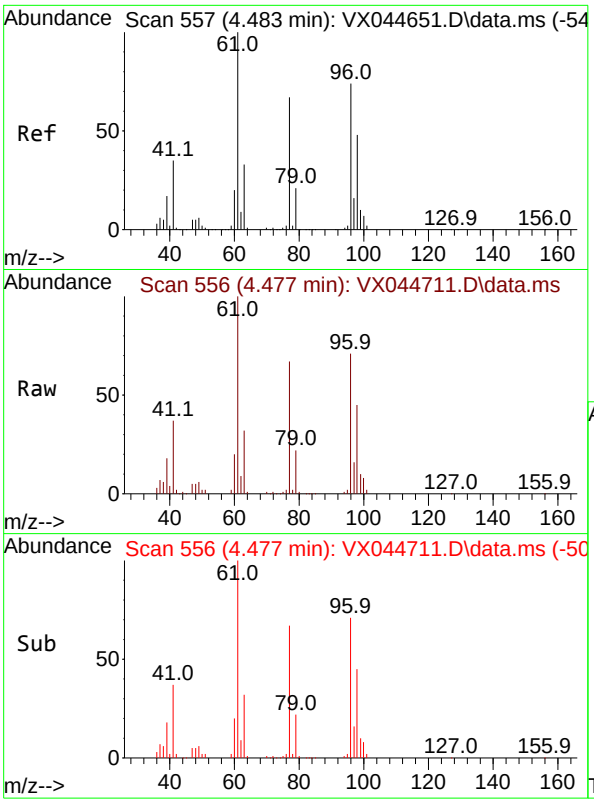




#26
2,2-Dichloropropane
Concen: 46.357 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 77 Resp: 181991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.0 | 10.9 | 32.6 |



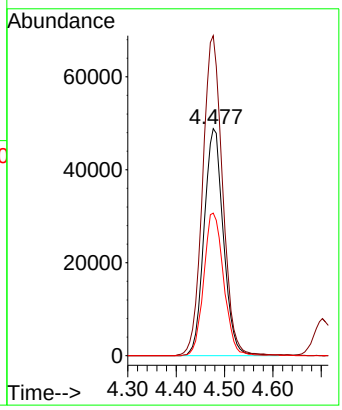


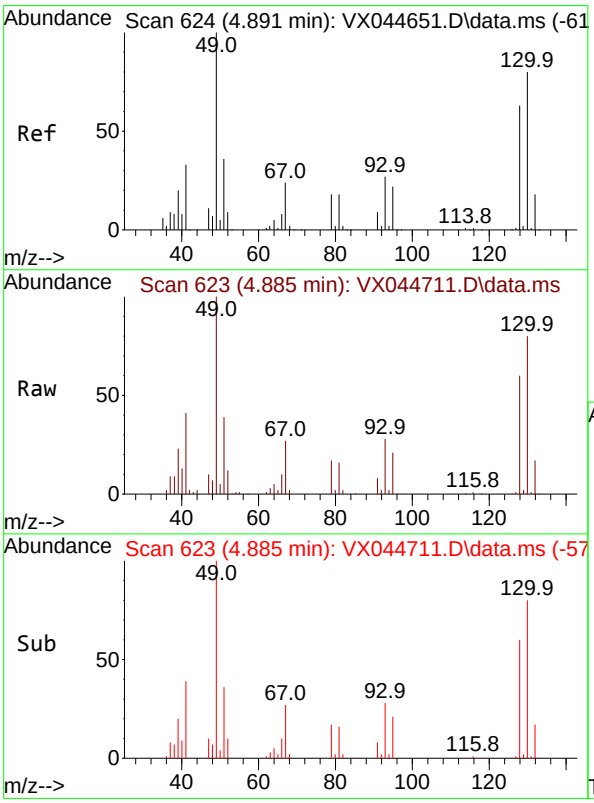

#27
cis-1,2-Dichloroethene
Concen: 51.078 ug/l
RT: 4.477 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 96 Resp: 135384

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 145.8 | 0.0 | 296.0 |
| 98 | 64.6 | 0.0 | 130.0 |

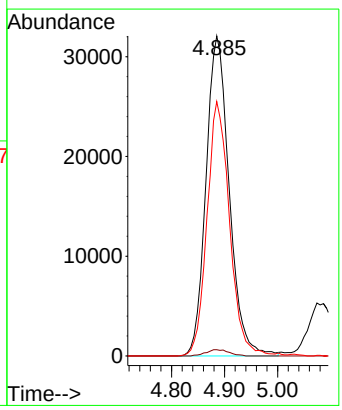


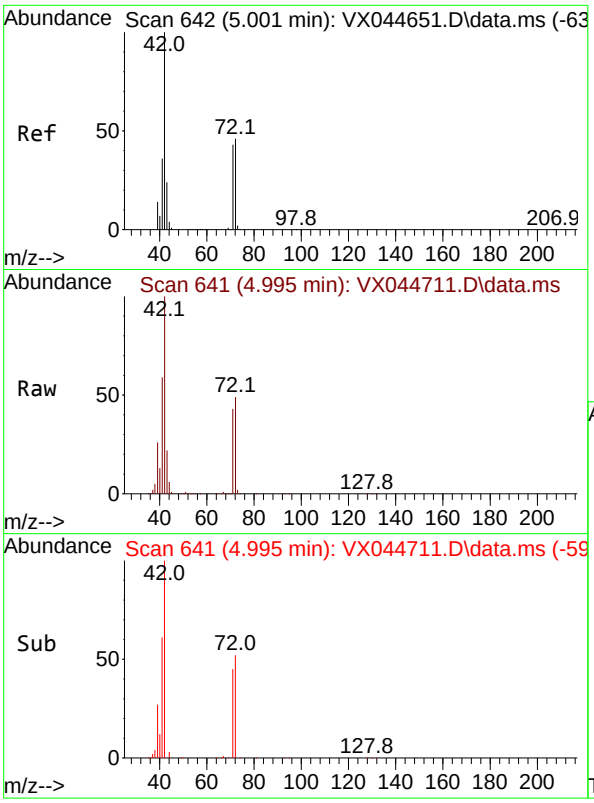




#28
Bromochloromethane
Concen: 51.564 ug/l
RT: 4.885 min Scan# 623
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 49 Resp: 97603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 2.0 | 0.0 | 4.4 |
| 130 | 77.1 | 63.4 | 95.2 |



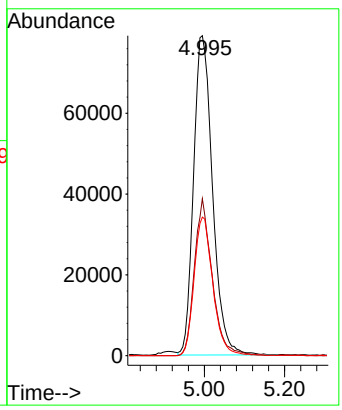


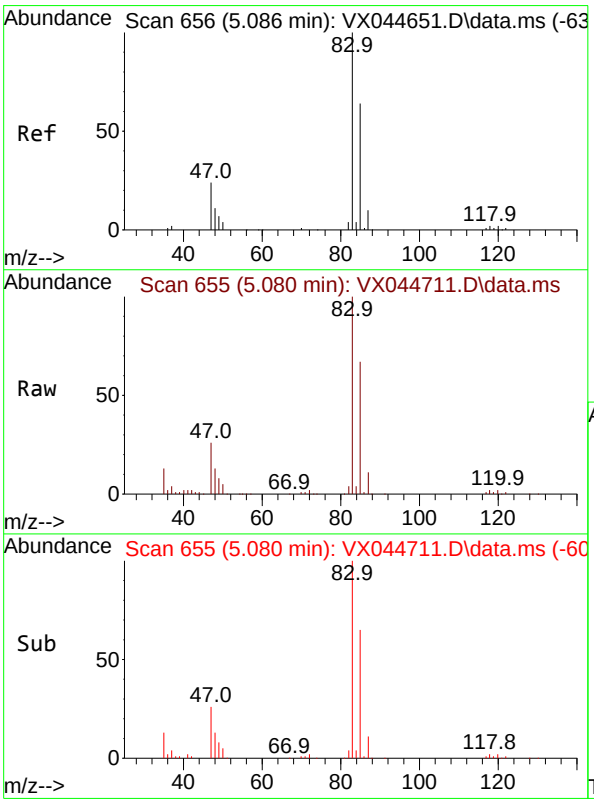

#29
Tetrahydrofuran
Concen: 263.398 ug/l
RT: 4.995 min Scan# 64
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 42 Resp: 260029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.1 | 38.2 | 57.4 |
| 71 | 43.1 | 35.3 | 52.9 |

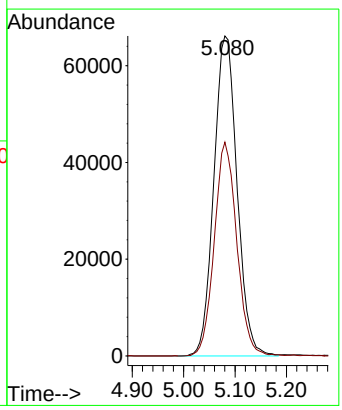


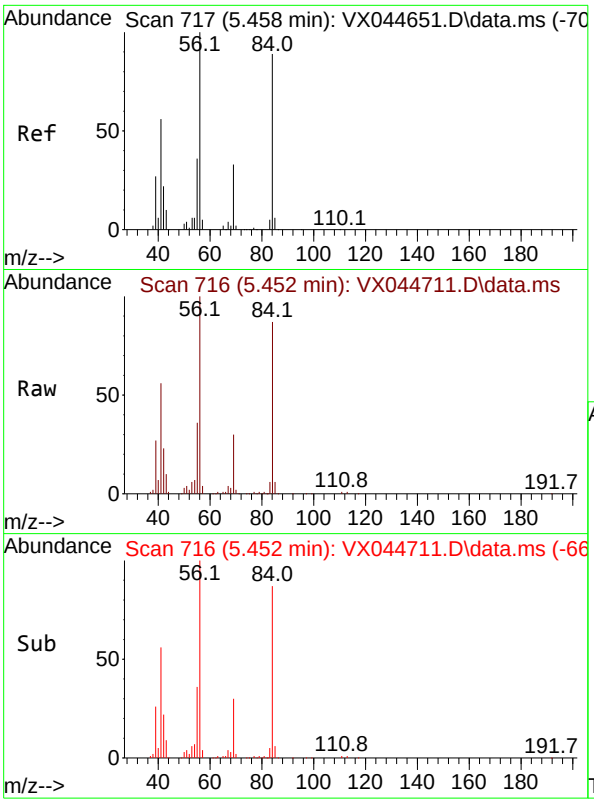




#30
Chloroform
Concen: 50.771 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 83 Resp: 207551

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.8 | 51.2 | 76.8 |



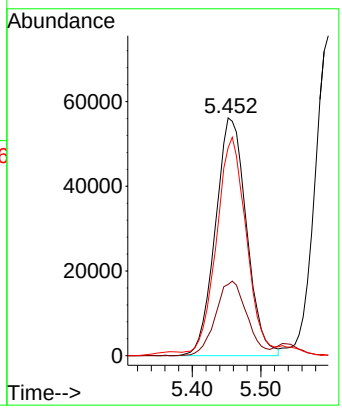


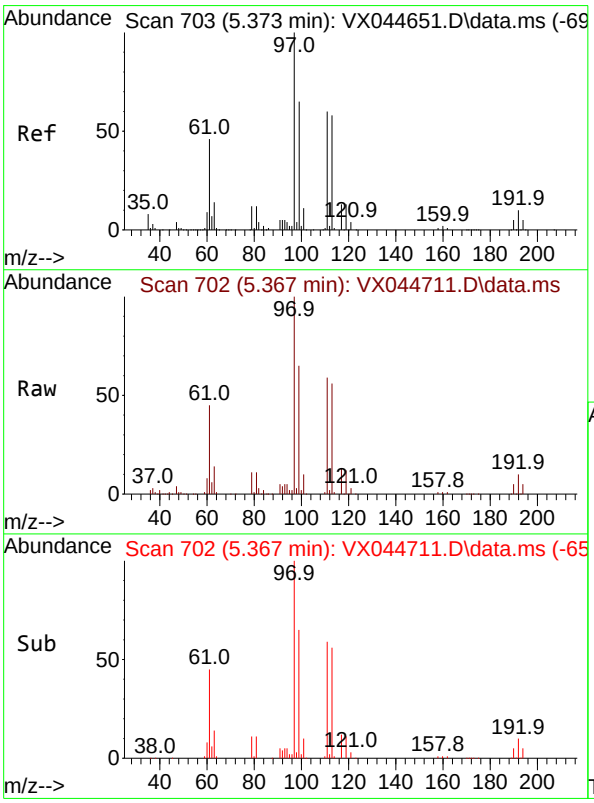

#31
Cyclohexane
Concen: 53.957 ug/l
RT: 5.452 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 56 Resp: 176773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 29.8 | 26.8 | 40.2 |
| 84 | 85.8 | 71.0 | 106.4 |

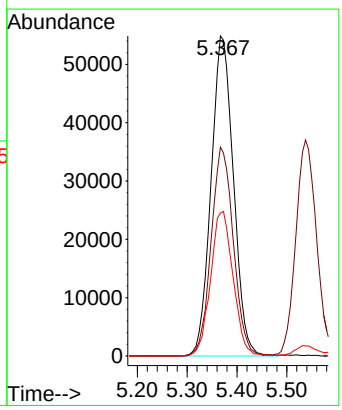


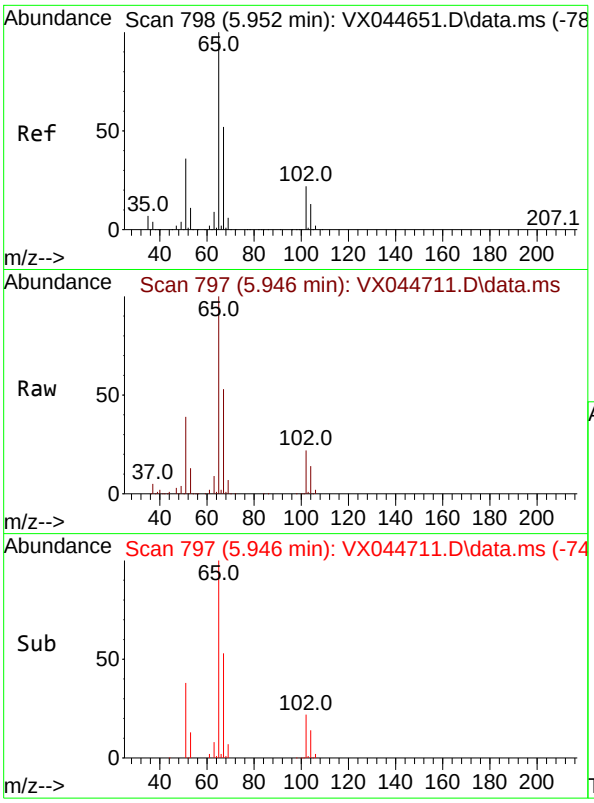




#32
1,1,1-Trichloroethane
Concen: 45.490 ug/l
RT: 5.367 min Scan# 702
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 97 Resp: 170957

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.7 | 51.6 | 77.4 |
| 61 | 45.5 | 35.6 | 53.4 |



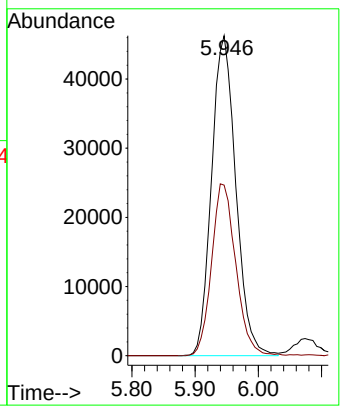


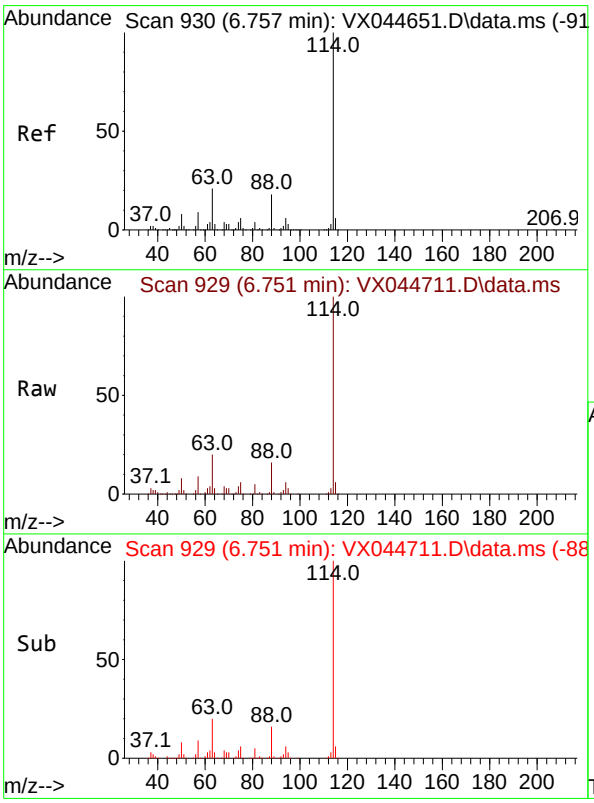

#33
1,2-Dichloroethane-d4
Concen: 47.336 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 65 Resp: 123157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.6 | 0.0 | 103.4 |

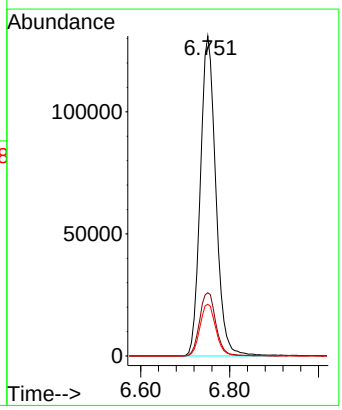


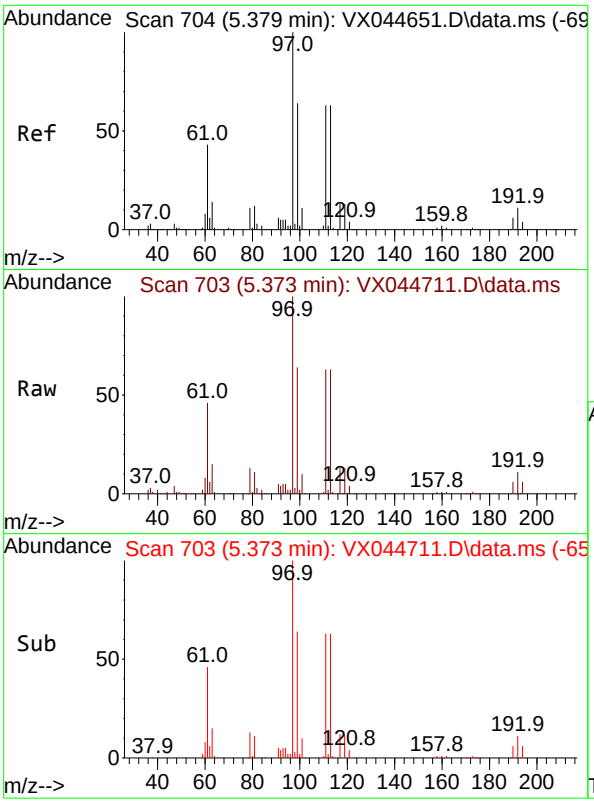




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:114 Resp: 318376

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 43.0 |
| 88 | 16.2 | 0.0 | 35.4 |



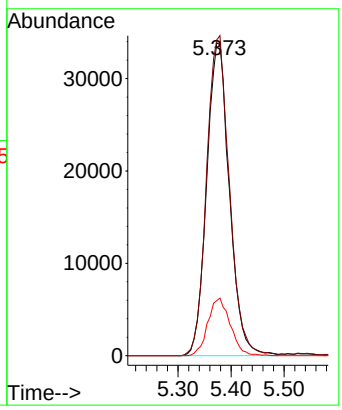


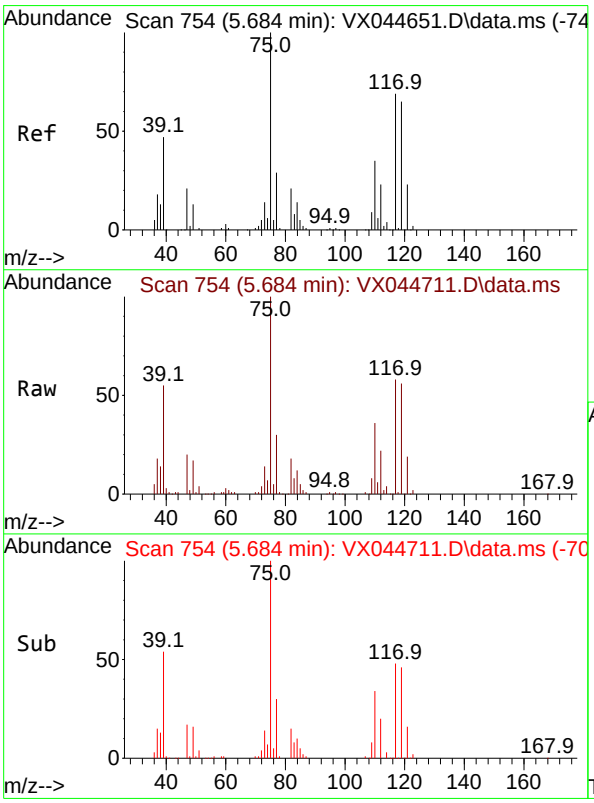

#35
Dibromofluoromethane
Concen: 49.831 ug/l
RT: 5.373 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:113 Resp: 100788

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.0 | 81.6 | 122.4 |
| 192 | 18.1 | 14.4 | 21.6 |

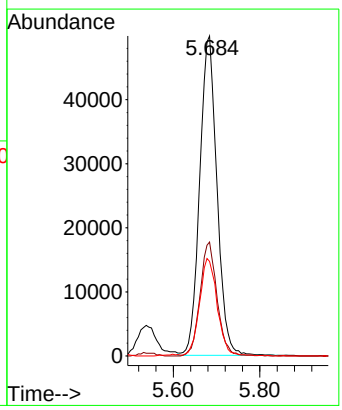


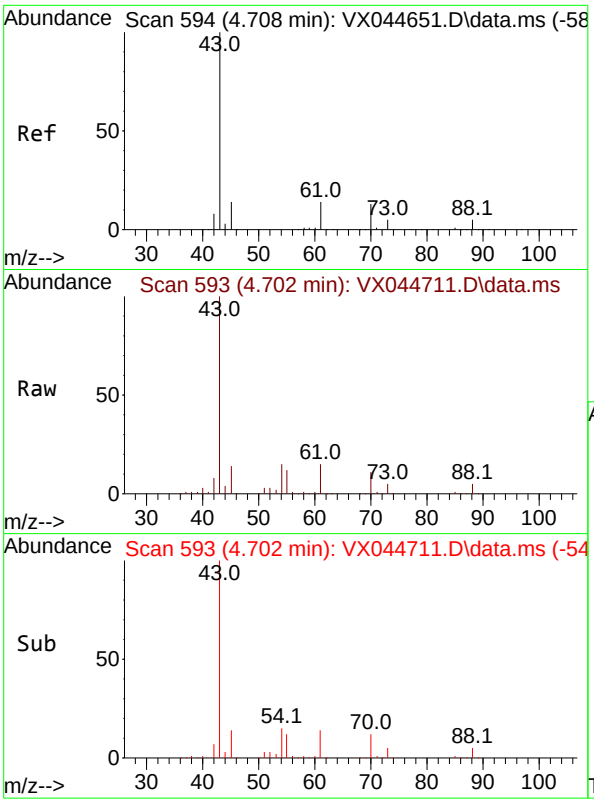




#36
1,1-Dichloropropene
Concen: 48.940 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 75 Resp: 137792

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.1 | 17.9 | 53.8 |
| 77 | 31.0 | 24.5 | 36.7 |



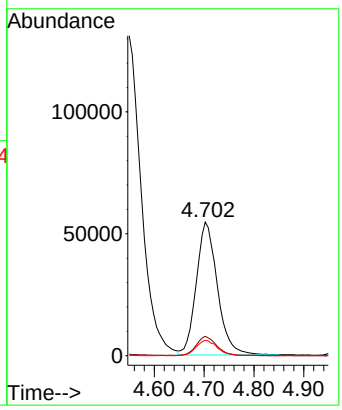


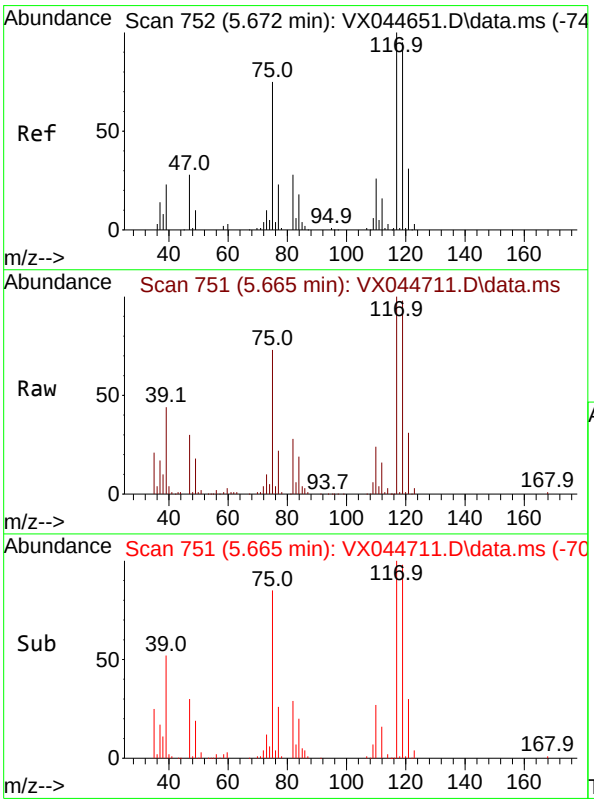

#37
Ethyl Acetate
Concen: 53.669 ug/l
RT: 4.702 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 160916

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.5 | 10.9 | 16.3 |
| 70 | 11.7 | 10.1 | 15.1 |

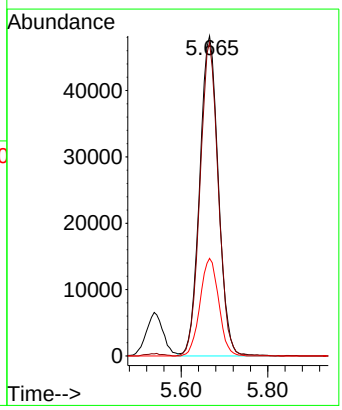


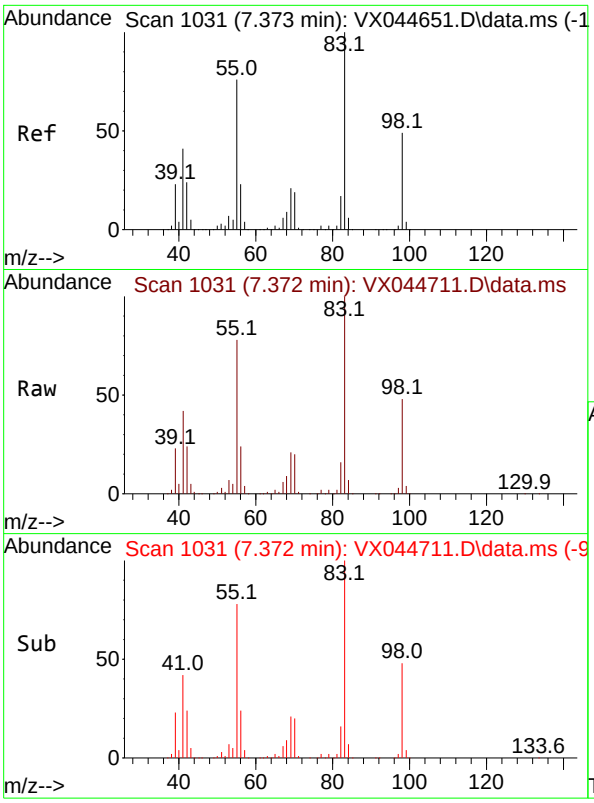




#38
Carbon Tetrachloride
Concen: 45.521 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:117 Resp: 144163

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 97.9 | 76.0 | 114.0 |
| 121 | 30.5 | 24.6 | 36.8 |



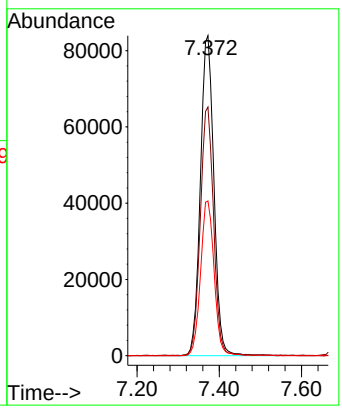


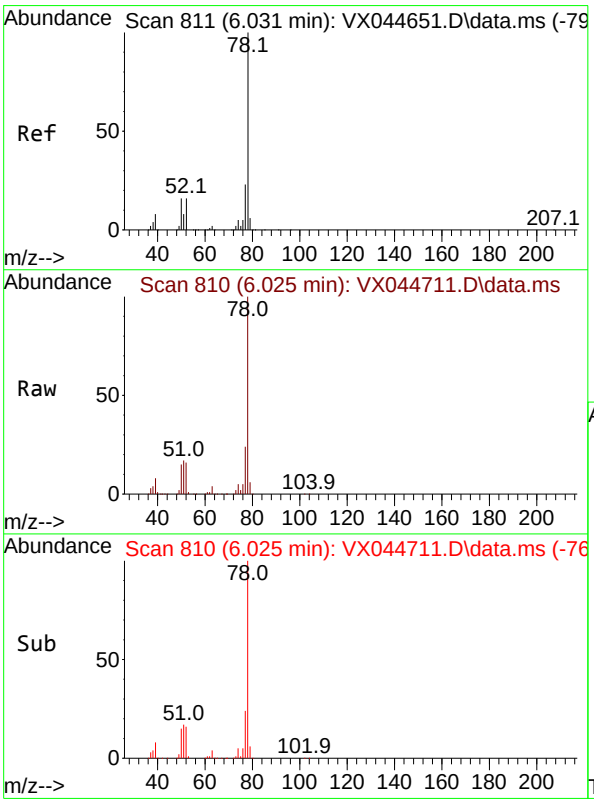

#39
Methylcyclohexane
Concen: 51.179 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 191285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.6 | 60.5 | 90.7 |
| 98 | 48.4 | 39.0 | 58.4 |

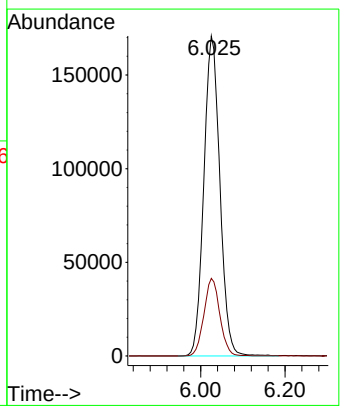


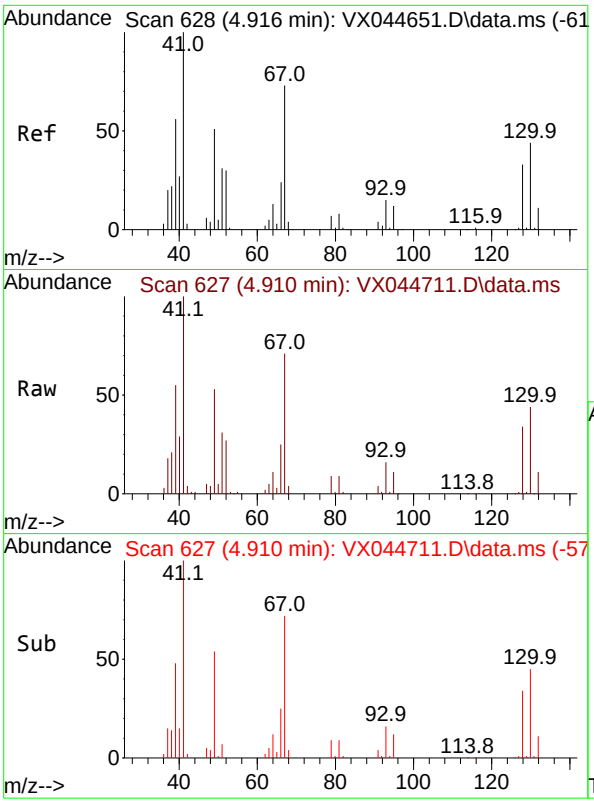




#40
Benzene
Concen: 51.868 ug/l
RT: 6.025 min Scan# 810
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 78 Resp: 452521

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.3 | 18.7 | 28.1 |



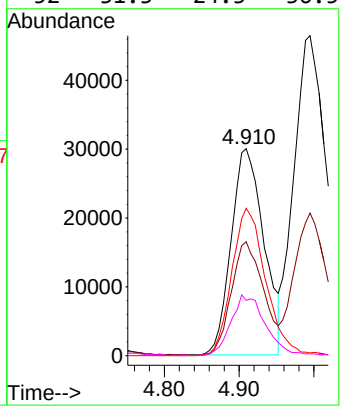


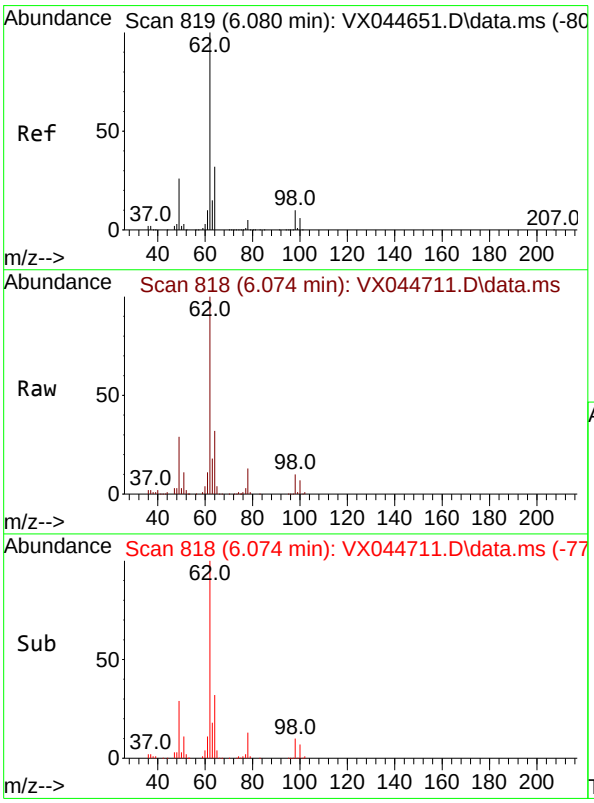

#41
Methacrylonitrile
Concen: 52.289 ug/l
RT: 4.910 min Scan# 6
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 41 Resp: 91356

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 53.9 | 44.4 | 66.6 |
| 67 | 74.1 | 60.6 | 90.8 |
| 52 | 31.3 | 24.3 | 36.5 |

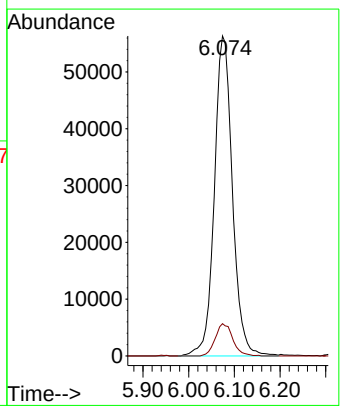


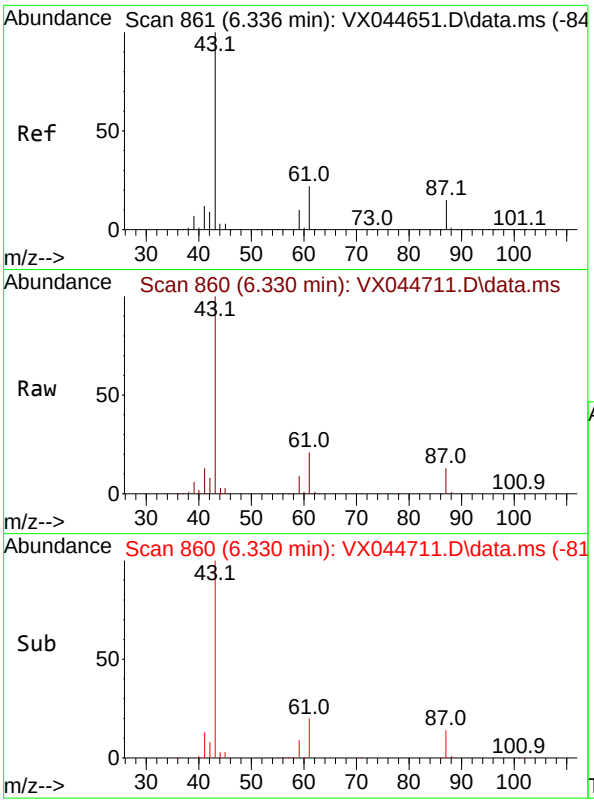




#42
1,2-Dichloroethane
Concen: 48.725 ug/l
RT: 6.074 min Scan# 818
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 62 Resp: 155155

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 19.4 |



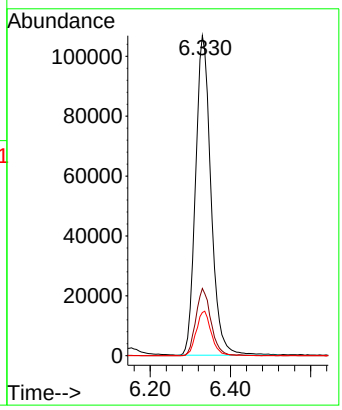


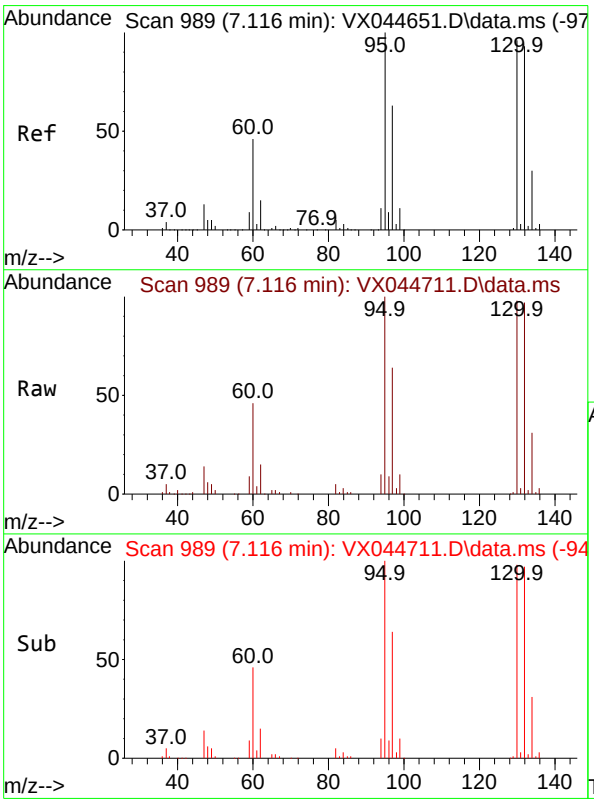

#43
Isopropyl Acetate
Concen: 51.667 ug/l
RT: 6.330 min Scan# 8
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 284981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.5 | 16.6 | 24.8 |
| 87 | 13.6 | 11.0 | 16.6 |

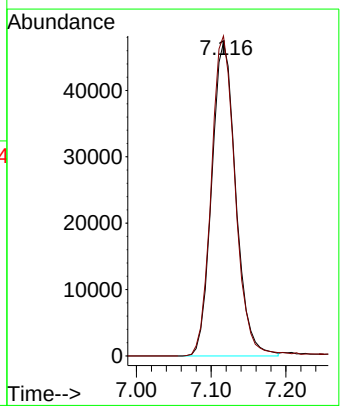


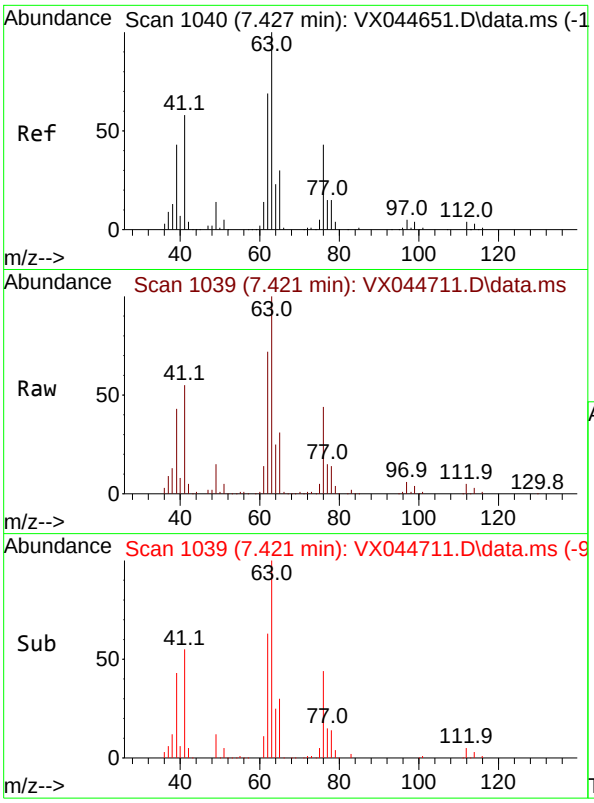




#44
Trichloroethene
Concen: 50.413 ug/l
RT: 7.116 min Scan# 989
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:130 Resp: 105738

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 102.1 | 0.0 | 208.2 |



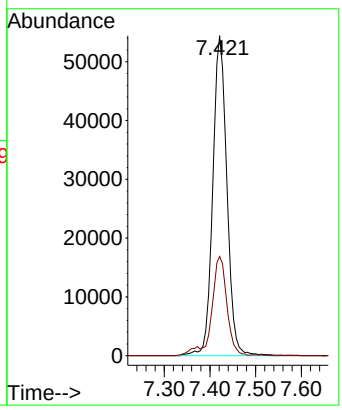


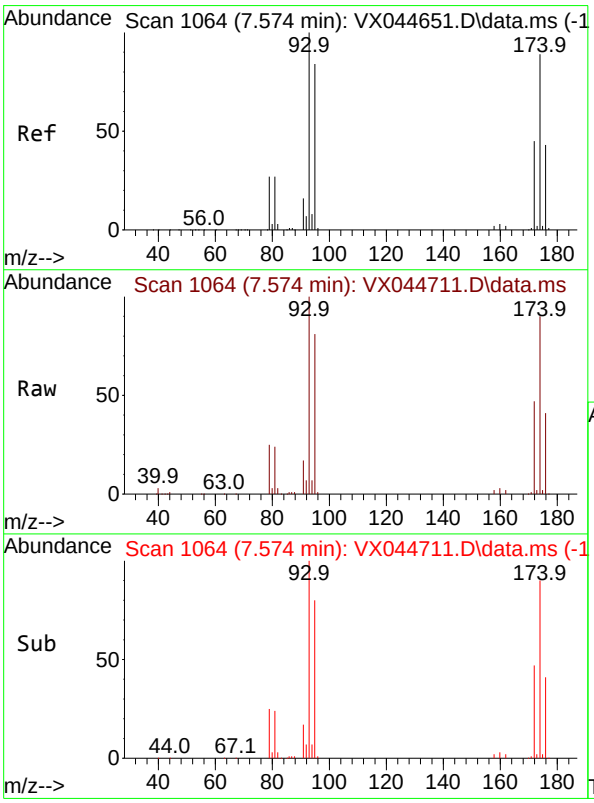

#45
1,2-Dichloropropane
Concen: 53.245 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 63 Resp: 116931

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.0 | 24.2 | 36.2 |

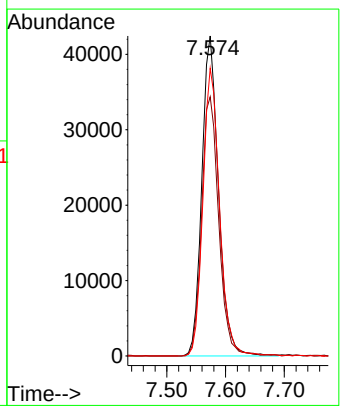


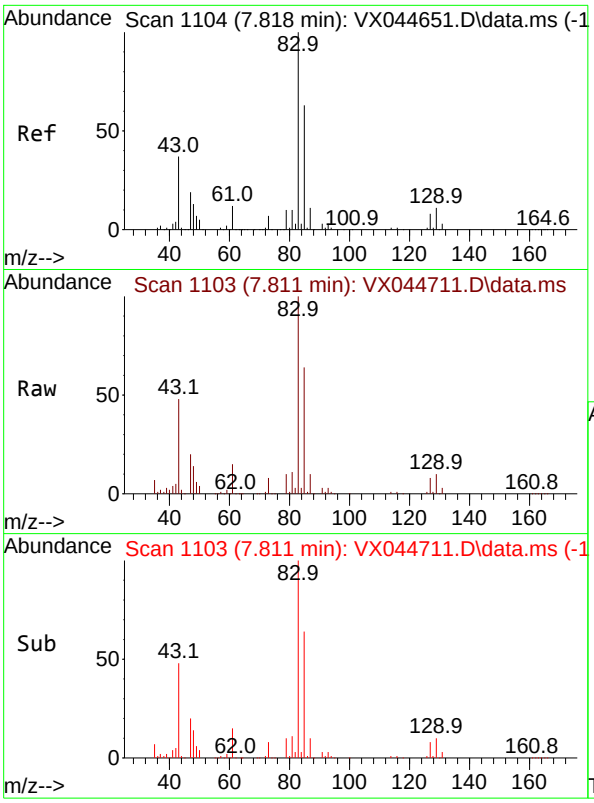




#46
Dibromomethane
Concen: 50.244 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 93 Resp: 83999

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.8 | 66.4 | 99.6 |
| 174 | 89.7 | 72.0 | 108.0 |



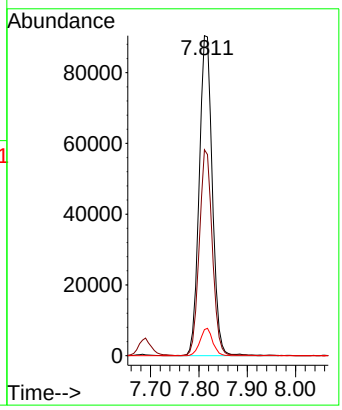


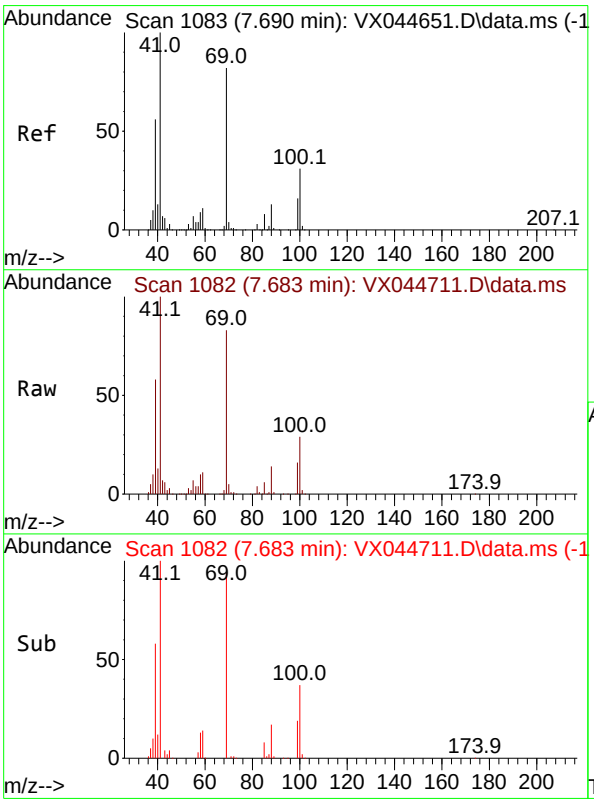

#47
Bromodichloromethane
Concen: 49.656 ug/l
RT: 7.811 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 170245

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.2 | 50.1 | 75.1 |
| 127 | 8.1 | 6.5 | 9.7 |

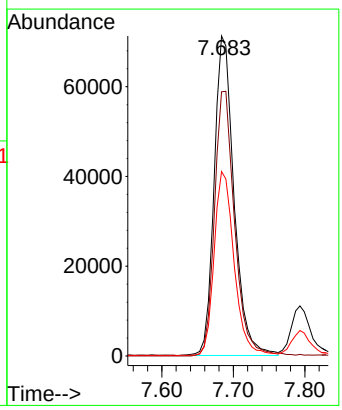


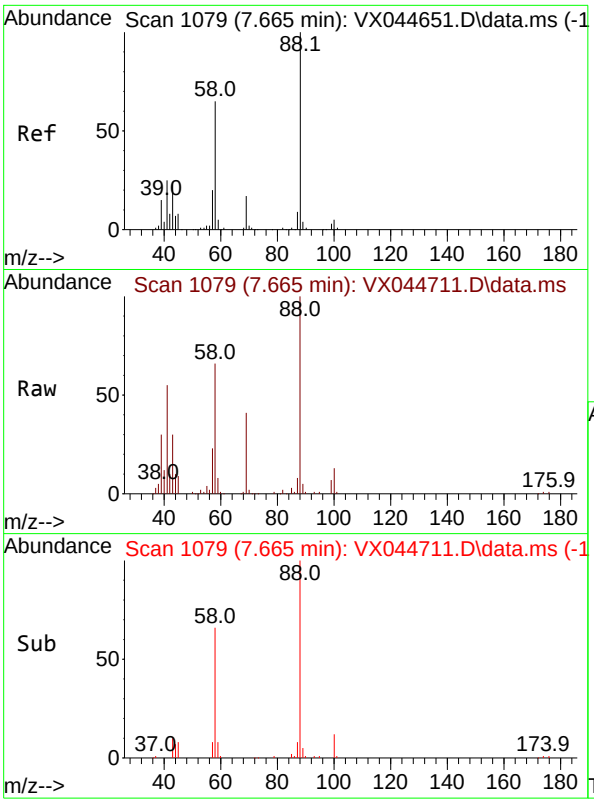




#48
Methyl methacrylate
Concen: 53.829 ug/l
RT: 7.683 min Scan# 1082
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 41 Resp: 137818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.1 | 66.8 | 100.2 |
| 39 | 58.0 | 47.4 | 71.0 |



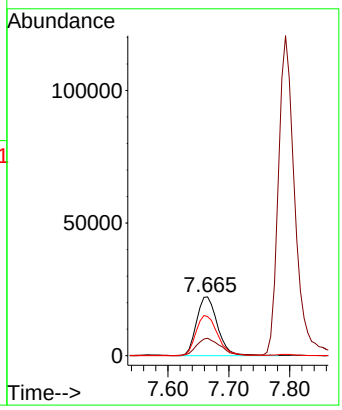


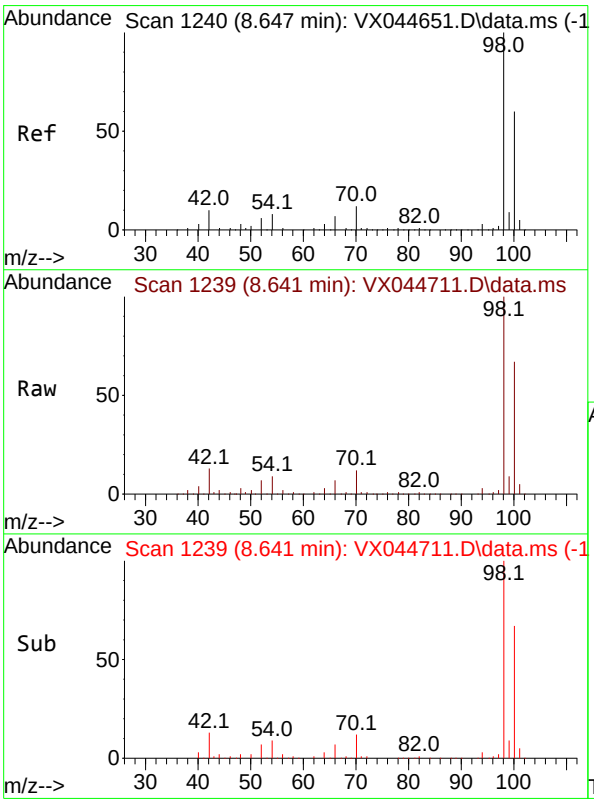

#49
1,4-Dioxane
Concen: 991.841 ug/l
RT: 7.665 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 88 Resp: 52981

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 33.2 | 27.0 | 40.4 |
| 58 | 70.3 | 55.8 | 83.8 |

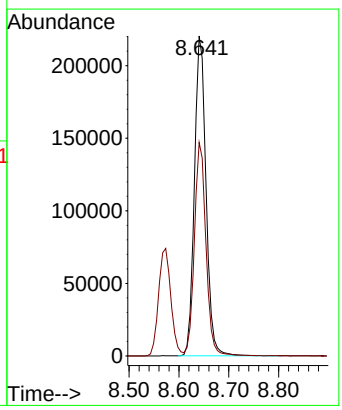


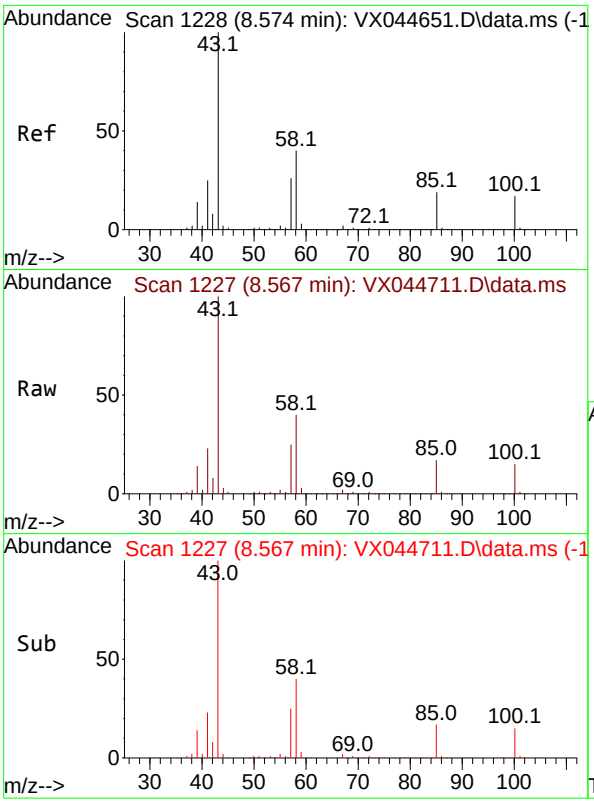




#50
Toluene-d8
Concen: 50.477 ug/l
RT: 8.641 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 98 Resp: 355984

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.4 | 53.2 | 79.8 |



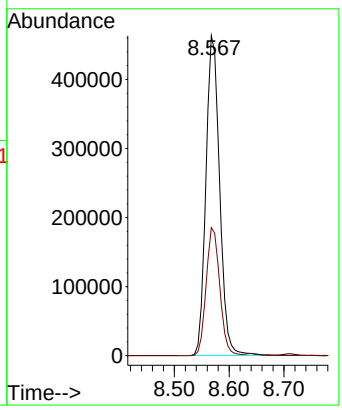


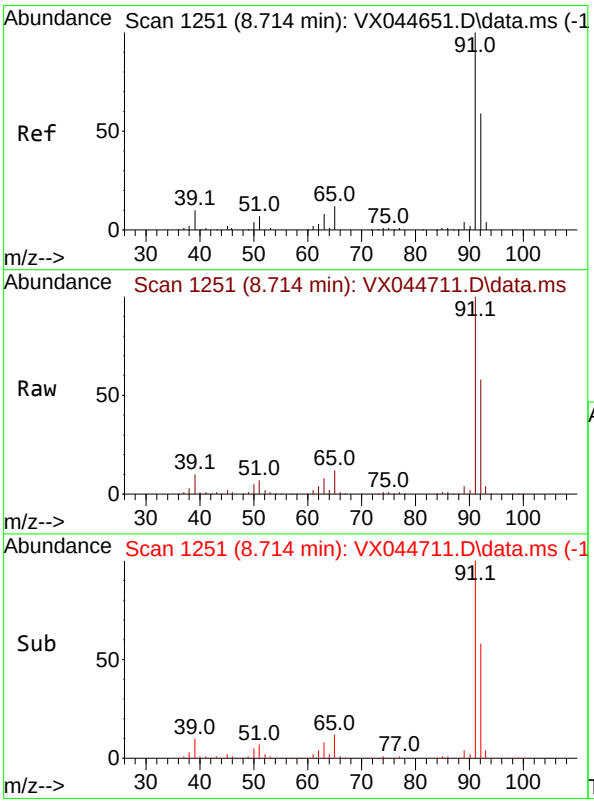

#51
4-Methyl-2-Pentanone
Concen: 264.229 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 805406

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.7 | 31.9 | 47.9 |

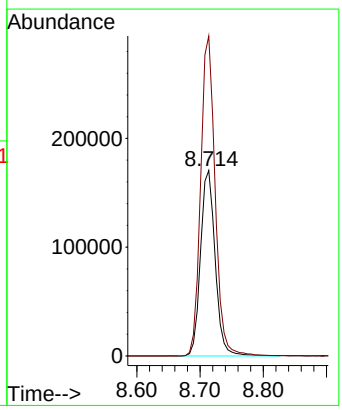


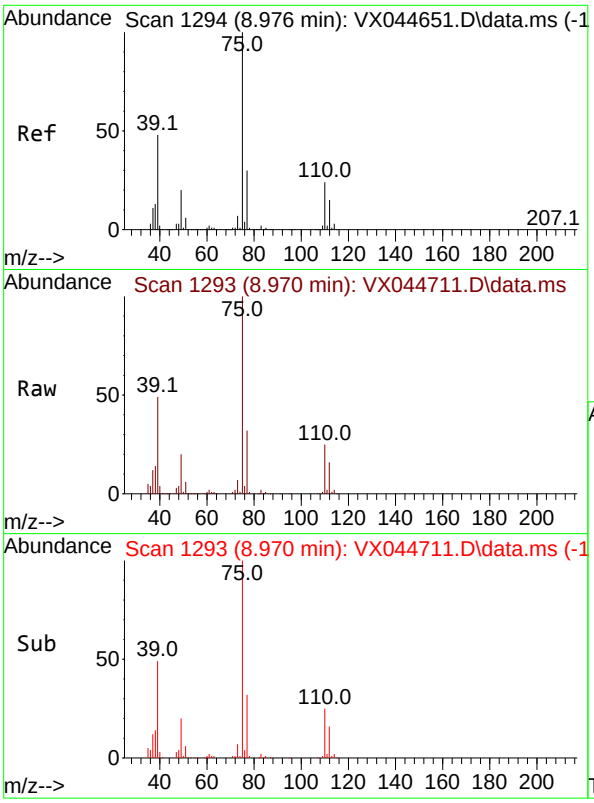




#52
Toluene
Concen: 51.531 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 92 Resp: 275176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 170.9 | 135.7 | 203.5 |



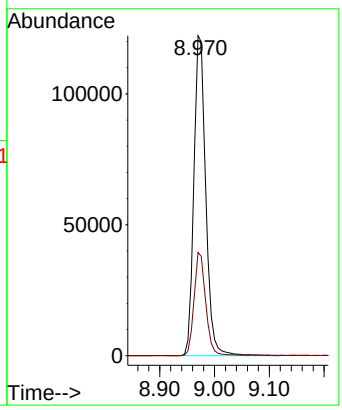


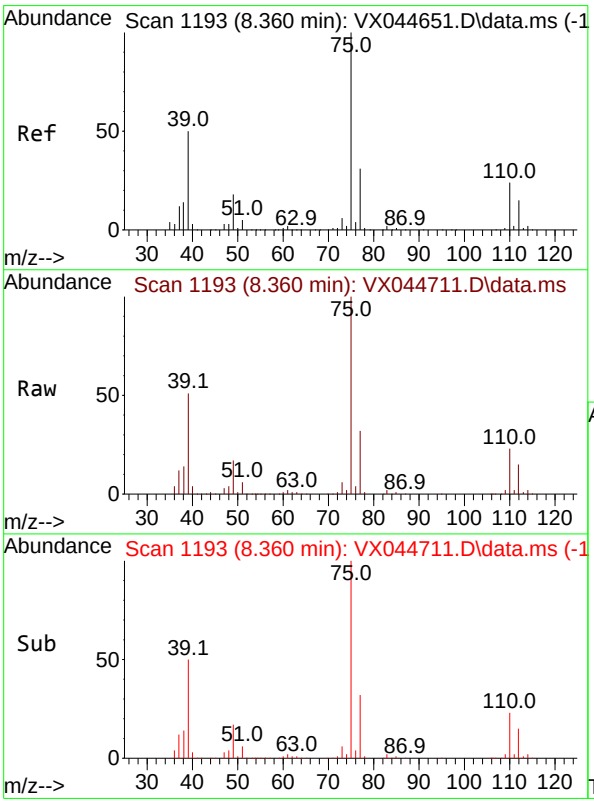

#53
t-1,3-Dichloropropene
Concen: 52.351 ug/l
RT: 8.970 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 185440

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 24.4 | 36.6 |

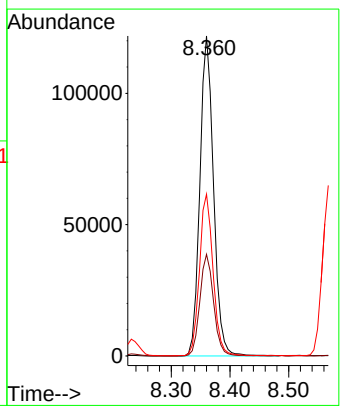


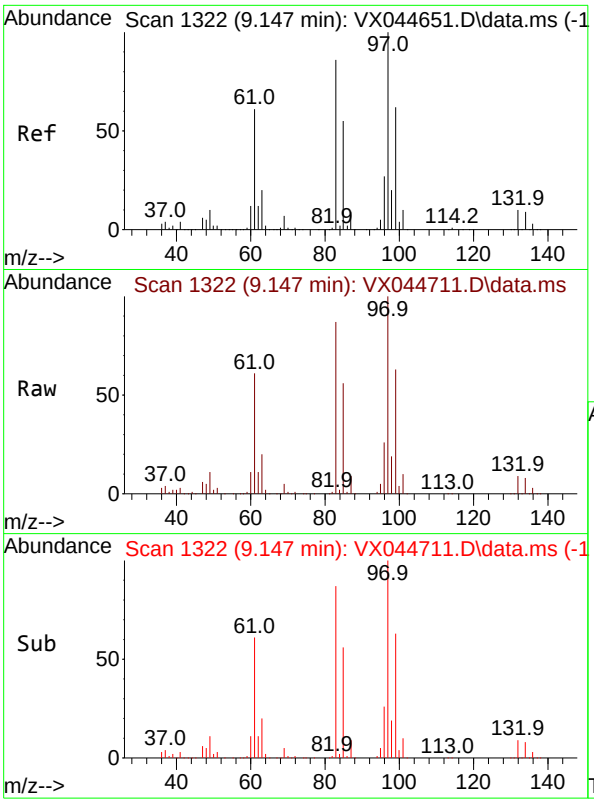




#54
cis-1,3-Dichloropropene
Concen: 51.254 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 75 Resp: 196861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.8 | 25.1 | 37.7 |
| 39 | 50.5 | 40.3 | 60.5 |



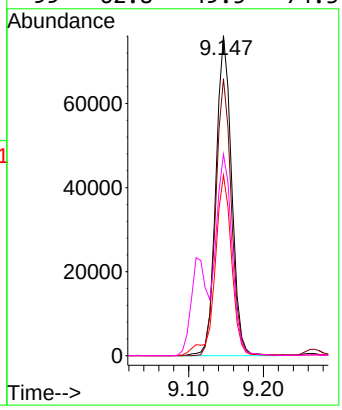


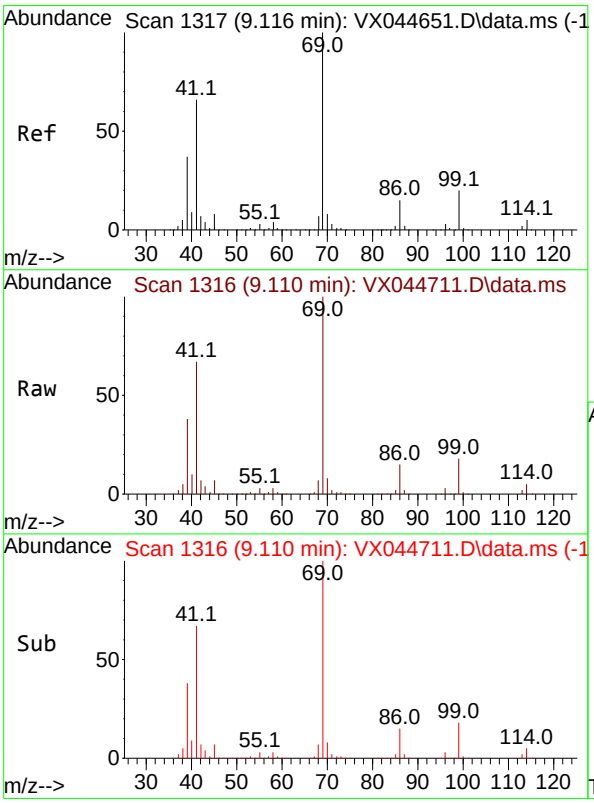

#55
1,1,2-Trichloroethane
Concen: 51.785 ug/l
RT: 9.147 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 97 Resp: 111881

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 86.6 | 68.8 | 103.2 |
| 85 | 56.3 | 43.7 | 65.5 |
| 99 | 62.8 | 49.5 | 74.3 |

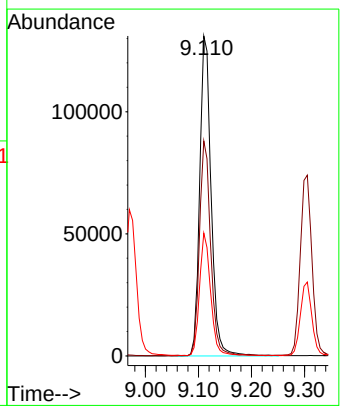


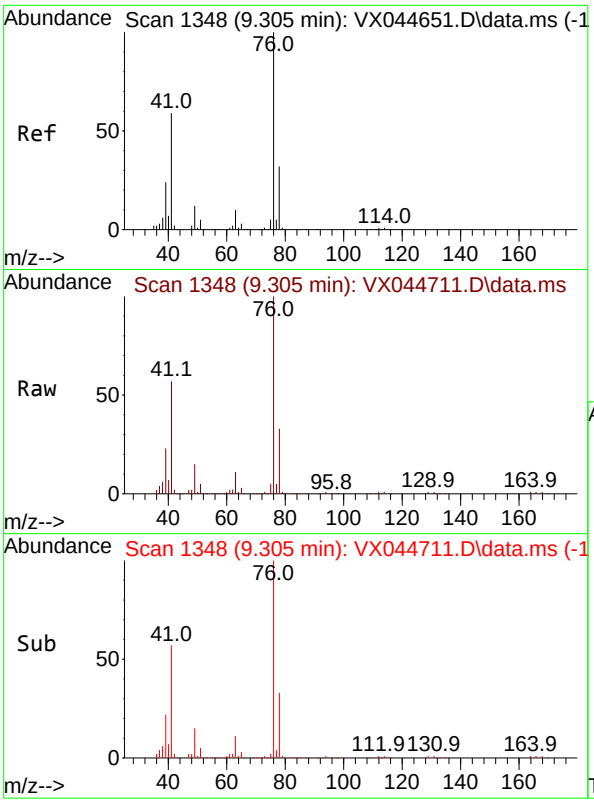




#56
Ethyl methacrylate
Concen: 52.829 ug/l
RT: 9.110 min Scan# 1316
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 69 Resp: 196250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.0 | 53.2 | 79.8 |
| 39 | 37.4 | 30.2 | 45.2 |



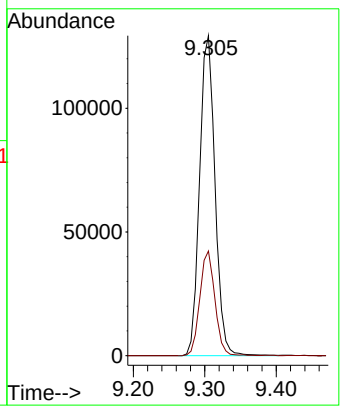


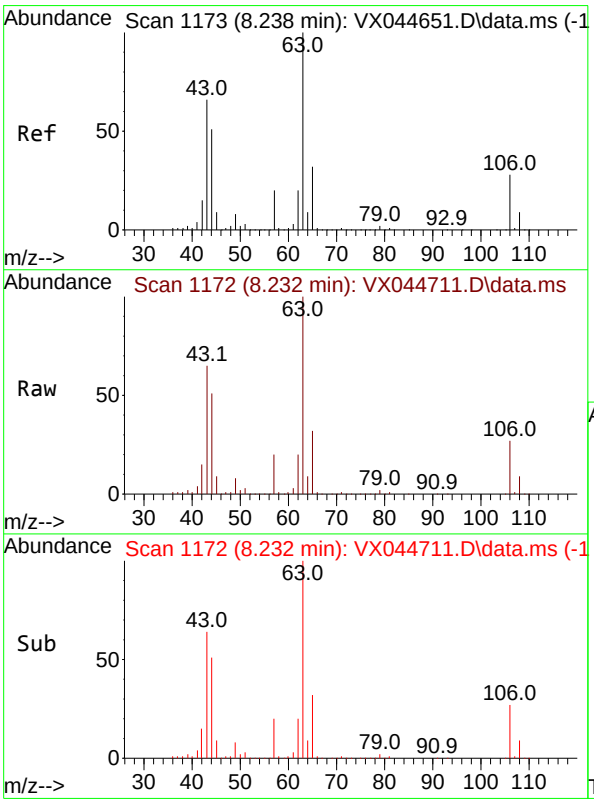

#57
1,3-Dichloropropane
Concen: 52.726 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 76 Resp: 193983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 31.9 | 26.0 | 39.0 |

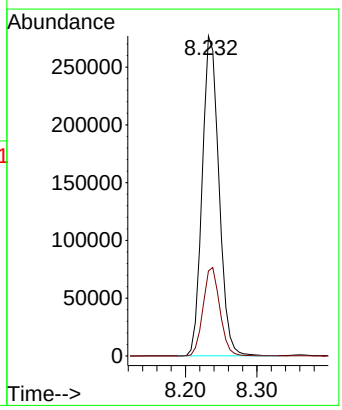


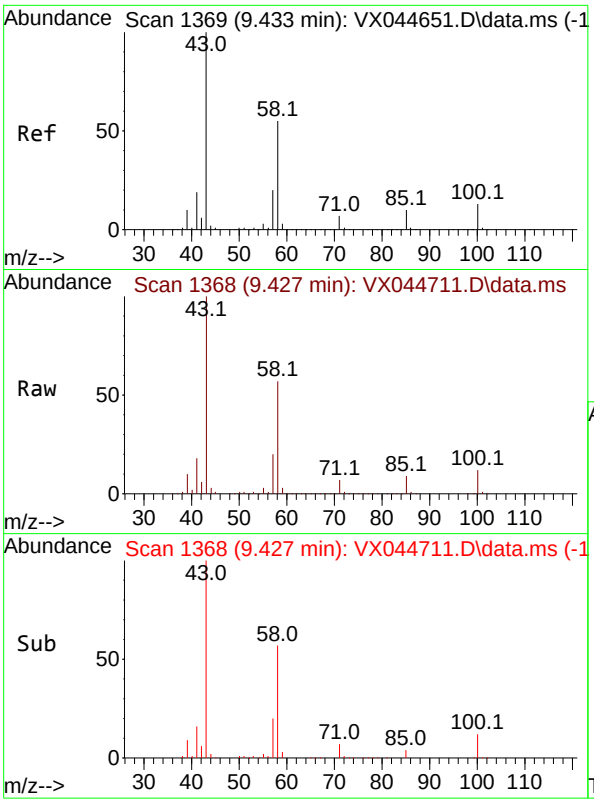




#58
2-Chloroethyl Vinyl ether
Concen: 247.155 ug/l
RT: 8.232 min Scan# 1172
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 63 Resp: 450749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.8 | 23.0 | 34.6 |



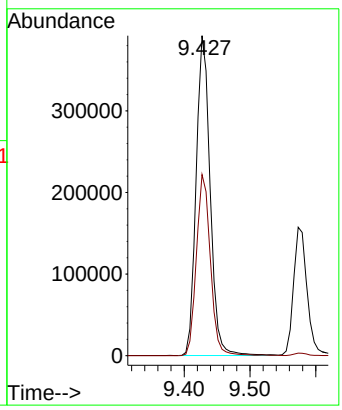


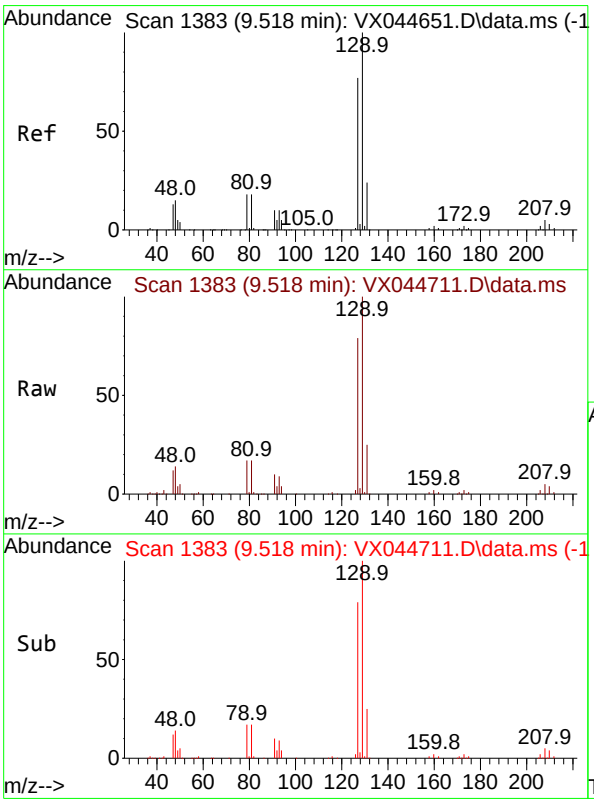

#59
2-Hexanone
Concen: 258.046 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 43 Resp: 578675

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.5 | 27.8 | 83.3 |

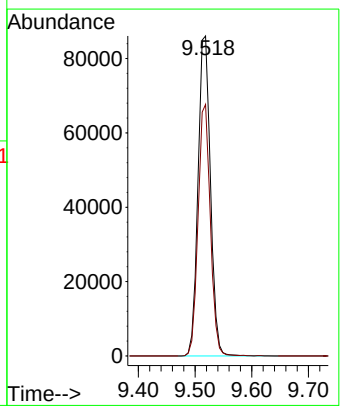


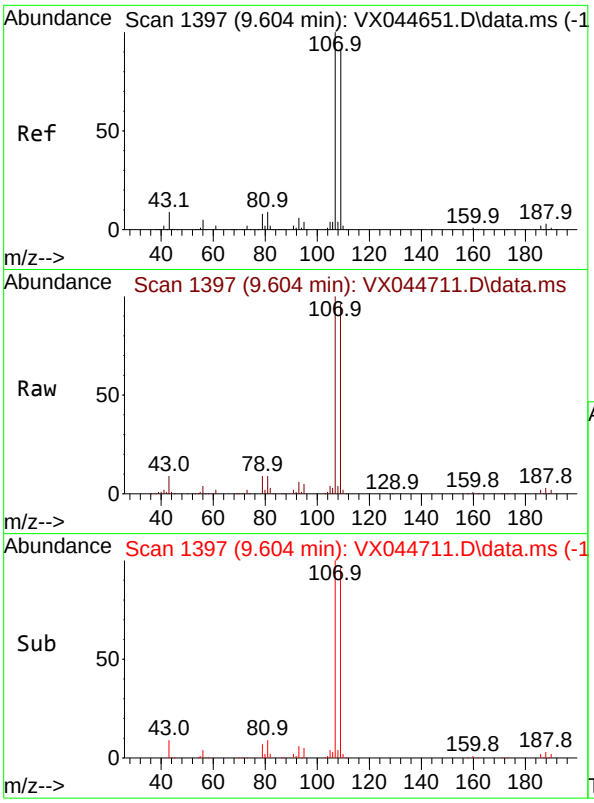




#60
Dibromochloromethane
Concen: 51.638 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:129 Resp: 130942

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.5 | 38.5 | 115.5 |



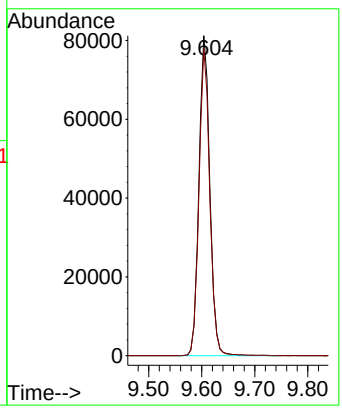


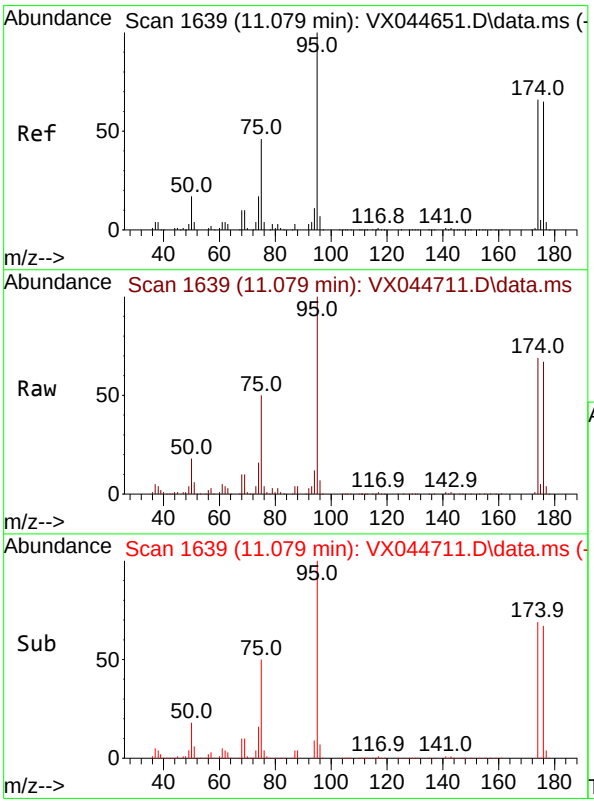

#61
1,2-Dibromoethane
Concen: 51.277 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:107 Resp: 116099

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.9 | 75.3 | 112.9 |

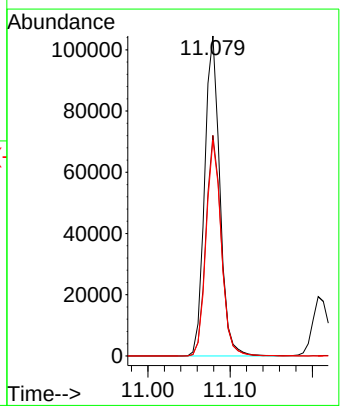


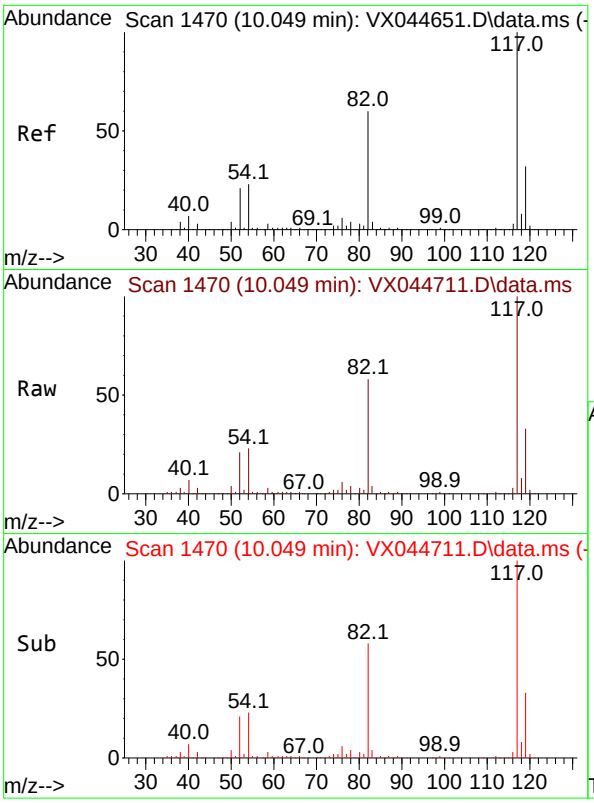




#62
4-Bromofluorobenzene
Concen: 51.142 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 95 Resp: 134456

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 69.0 | 0.0 | 133.0 |
| 176 | 67.1 | 0.0 | 129.4 |



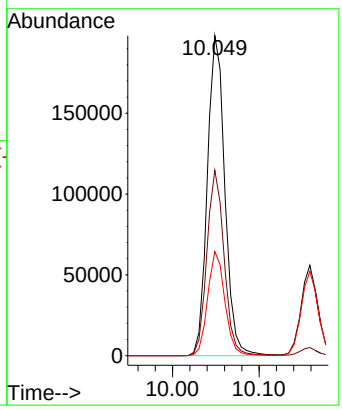


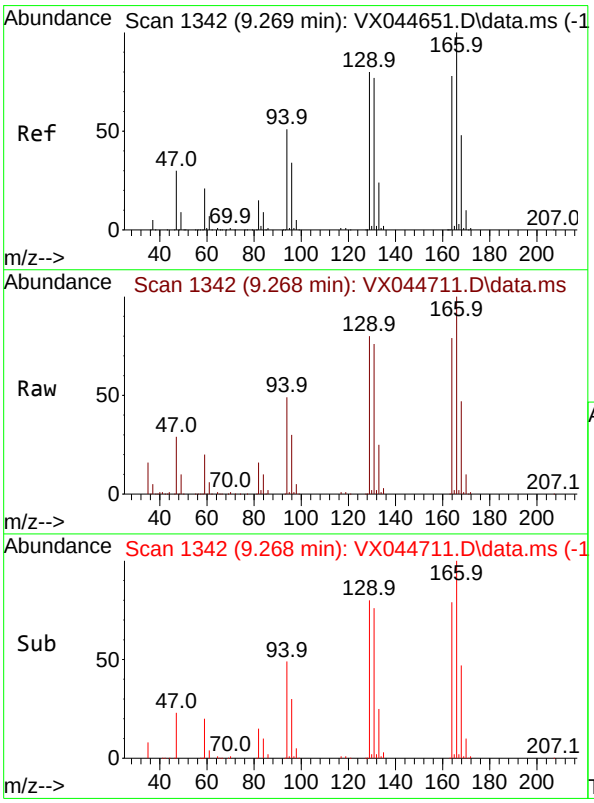

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:117 Resp: 277935

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.9 | 47.6 | 71.4 |
| 119 | 32.6 | 25.4 | 38.2 |

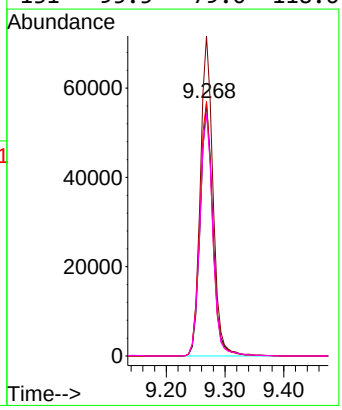


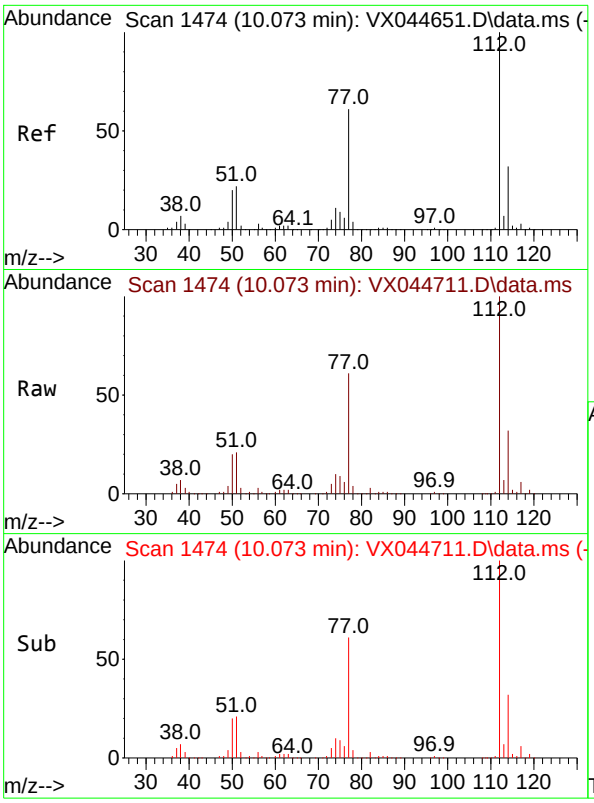




#64
Tetrachloroethene
Concen: 48.623 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:164 Resp: 84859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.3 | 102.0 | 153.0 |
| 129 | 100.4 | 81.1 | 121.7 |
| 131 | 95.5 | 79.0 | 118.6 |



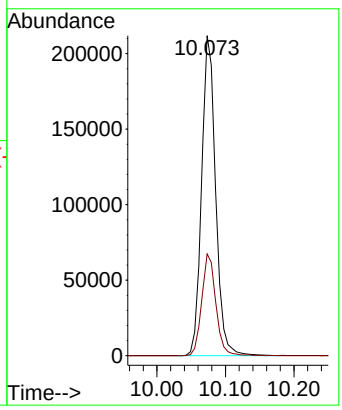


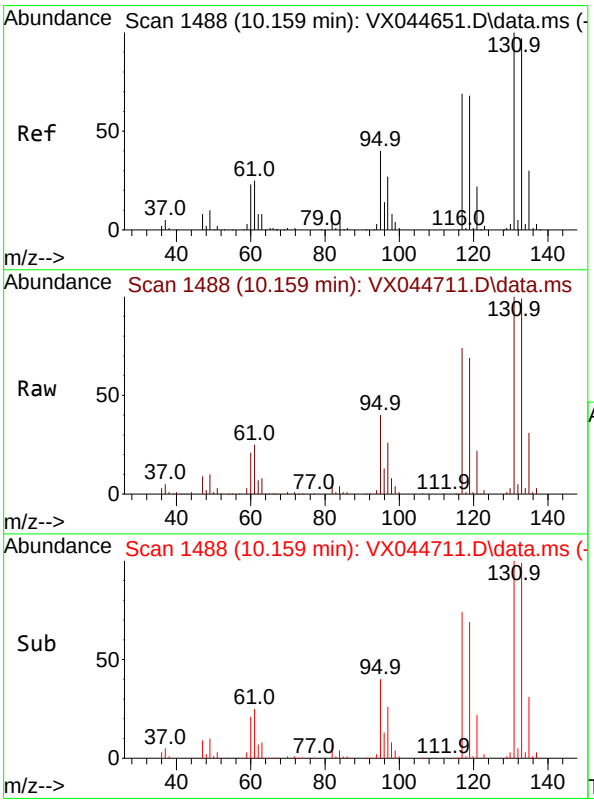

#65
Chlorobenzene
Concen: 51.069 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:112 Resp: 301484

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 25.3 | 37.9 |

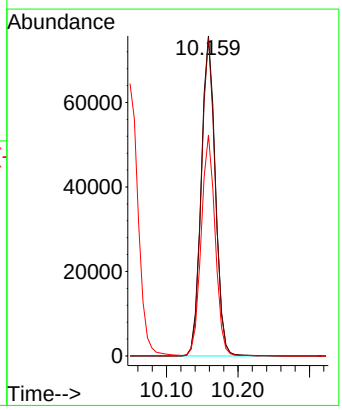


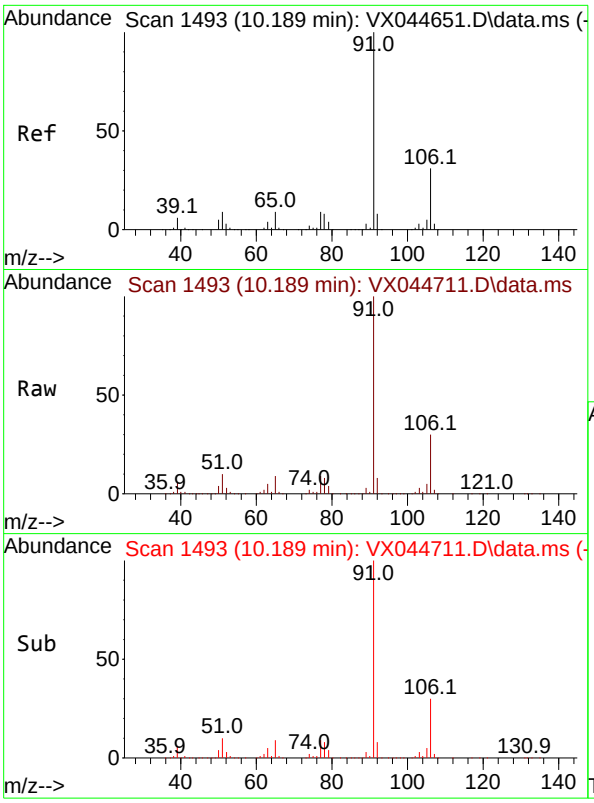




#66
1,1,1,2-Tetrachloroethane
Concen: 48.599 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:131 Resp: 104268

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 97.3 | 47.8 | 143.3 |
| 119 | 68.2 | 33.4 | 100.2 |



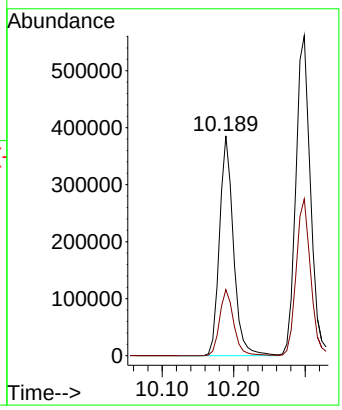


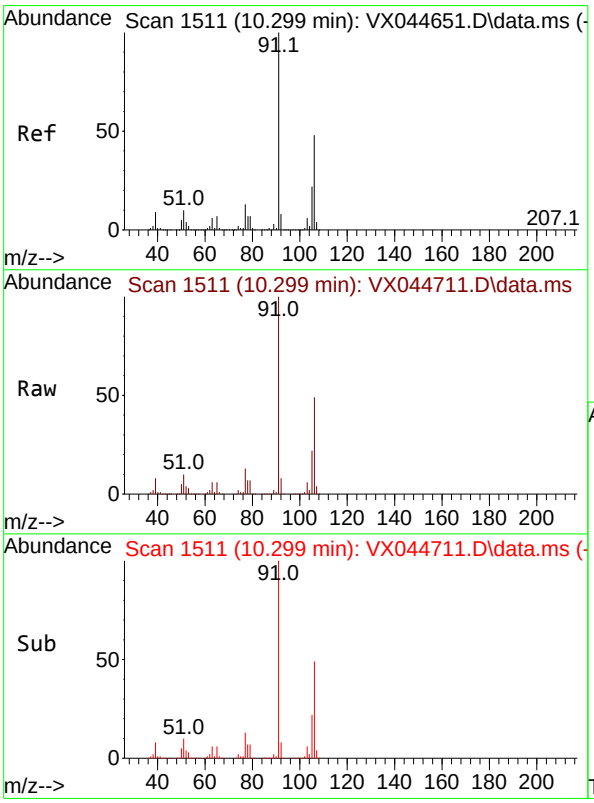

#67
Ethyl Benzene
Concen: 50.576 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 520975

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.0 | 25.0 | 37.6 |

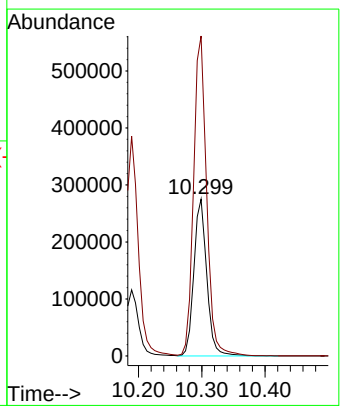


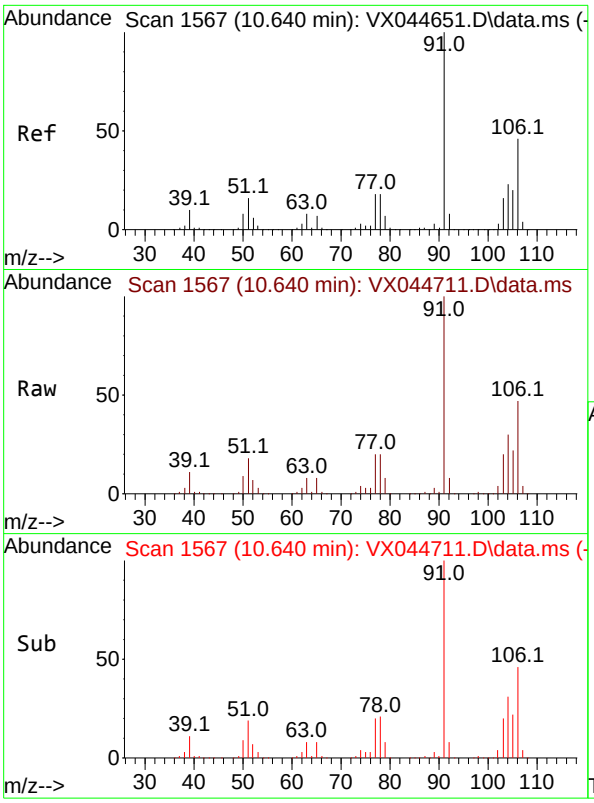




#68
m/p-Xylenes
Concen: 102.049 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:106 Resp: 390083

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 206.2 | 166.4 | 249.6 |



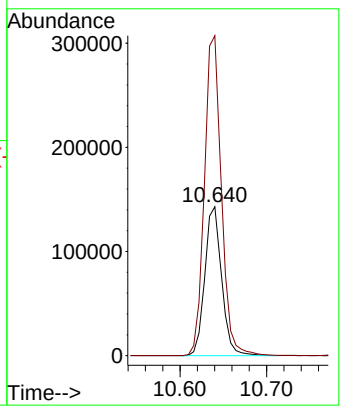


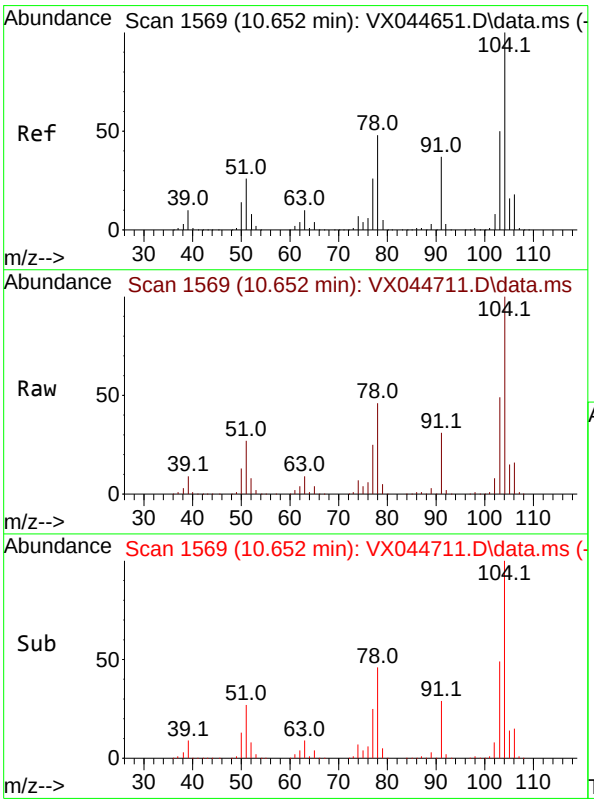

#69
o-Xylene
Concen: 49.989 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:106 Resp: 193241

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.6 | 108.7 | 326.3 |

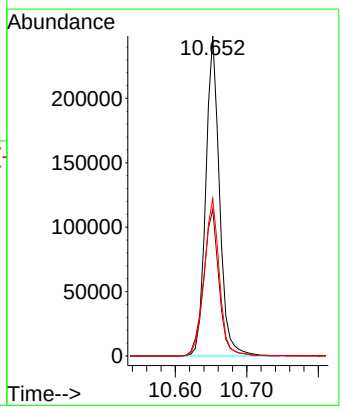


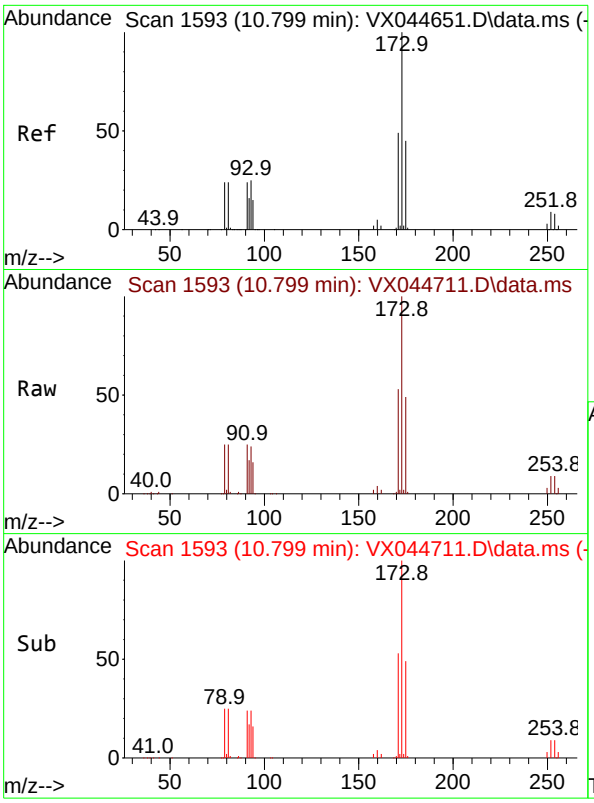




#70
Styrene
Concen: 53.068 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:104 Resp: 331210

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.5 | 43.0 | 64.6 |
| 103 | 54.3 | 43.4 | 65.2 |



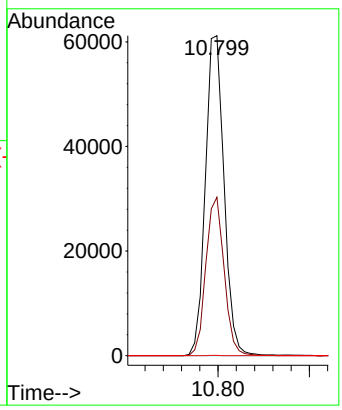


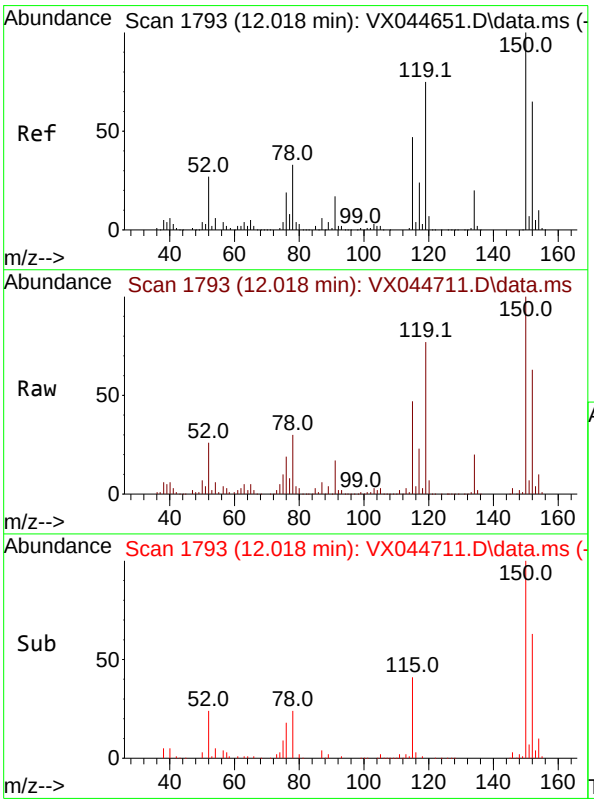

#71
Bromoform
Concen: 49.769 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:173 Resp: 86906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1# |

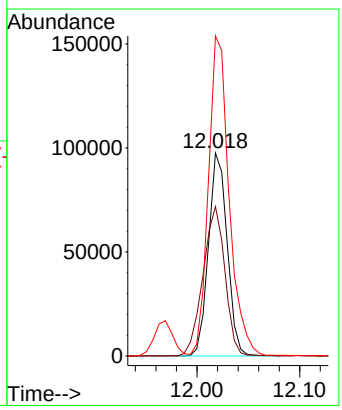


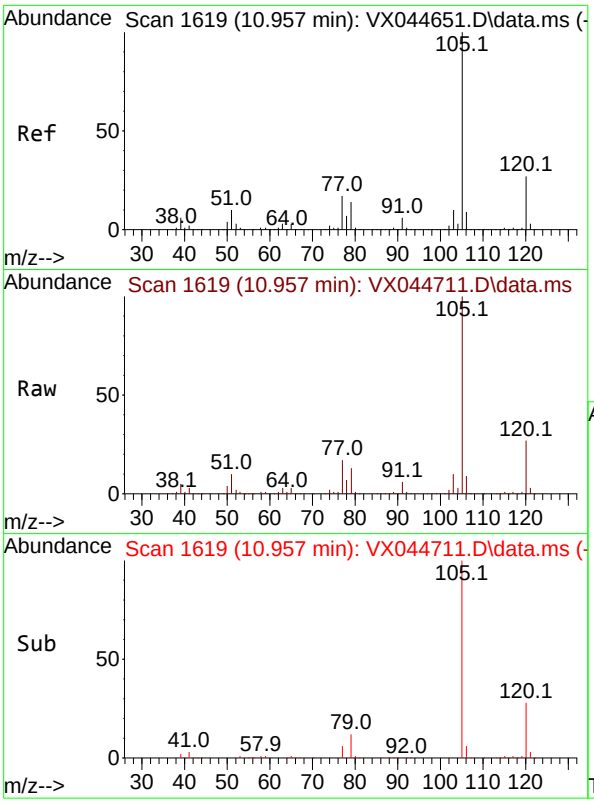




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:152 Resp: 123095

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 86.6 | 43.8 | 131.4 |
| 150 | 175.6 | 0.0 | 347.8 |



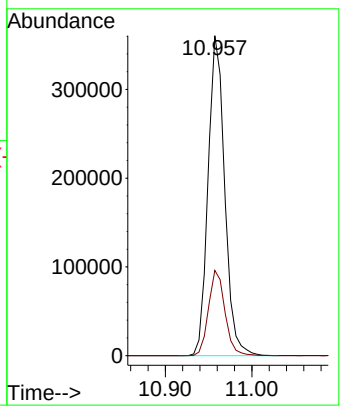


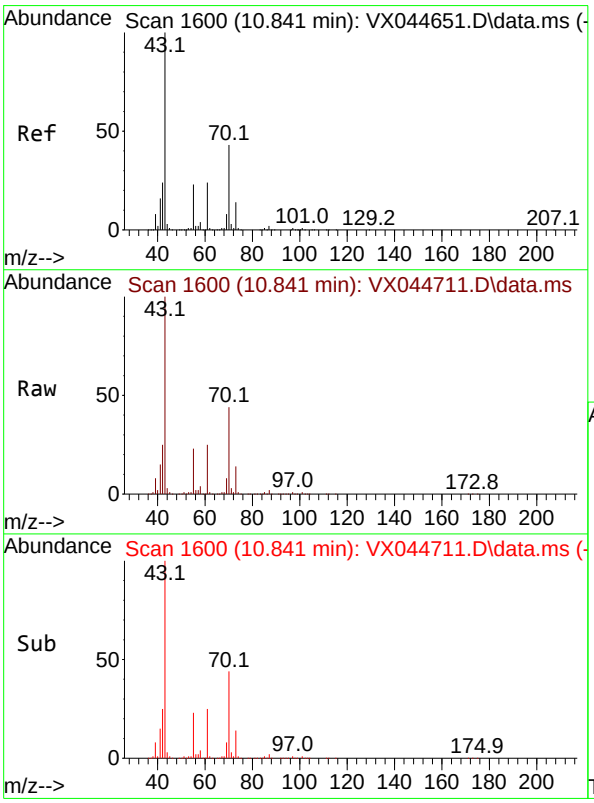

#73
Isopropylbenzene
Concen: 47.772 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 480397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.4 | 13.2 | 39.6 |

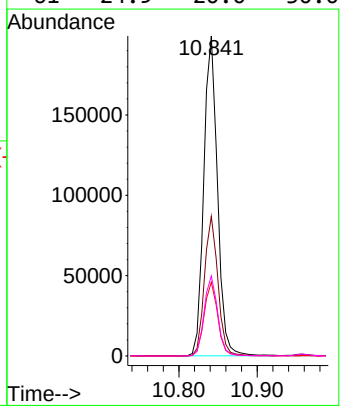


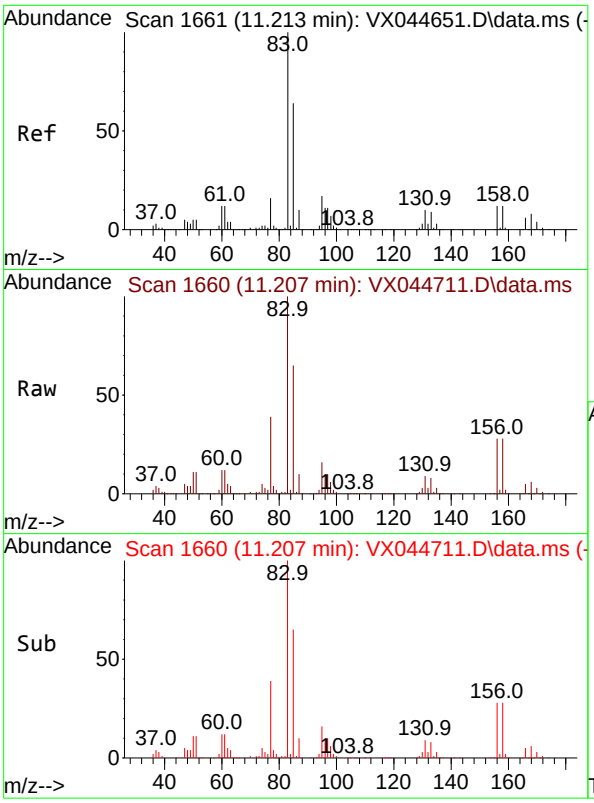




#74
N-amyl acetate
Concen: 48.507 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 43 Resp: 240430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.2 | 35.2 | 52.8 |
| 55 | 23.0 | 19.0 | 28.4 |
| 61 | 24.9 | 20.0 | 30.0 |



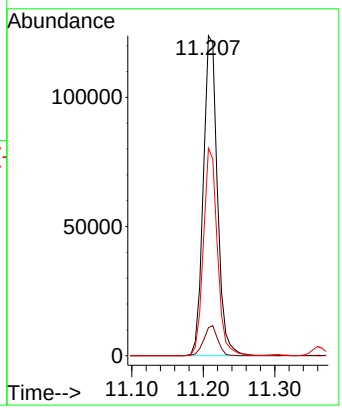


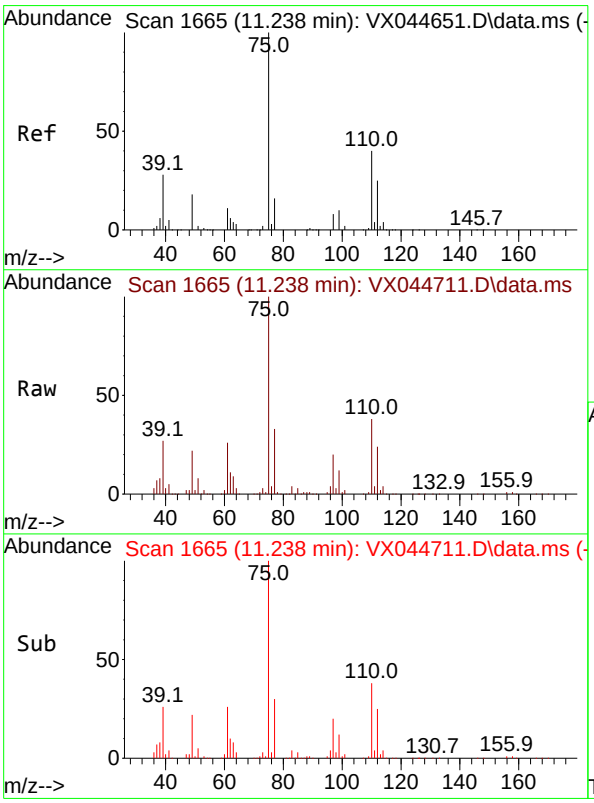

#75
1,1,2,2-Tetrachloroethane
Concen: 48.822 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 83 Resp: 169562

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.3 | 5.0 | 14.9 |
| 85 | 64.2 | 32.0 | 96.2 |

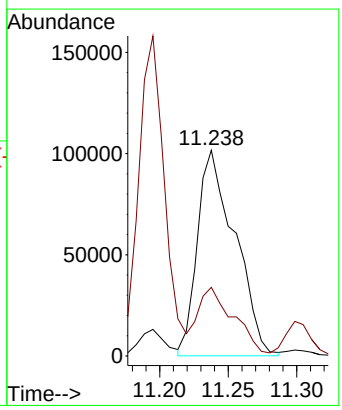


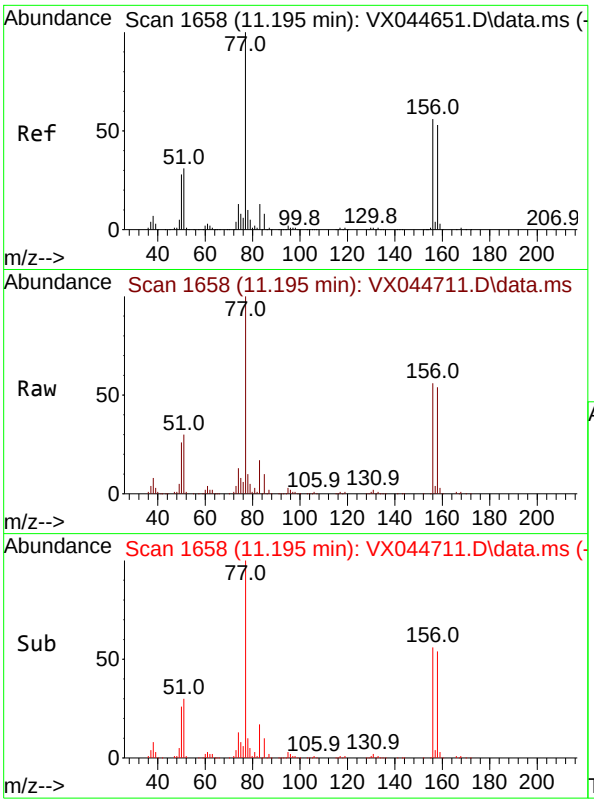




#76
1,2,3-Trichloropropane
Concen: 64.877 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 75 Resp: 193809

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.2 | 23.4 | 70.2 |



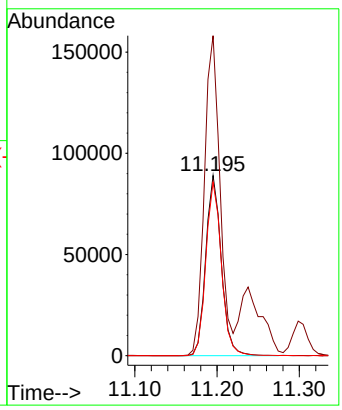


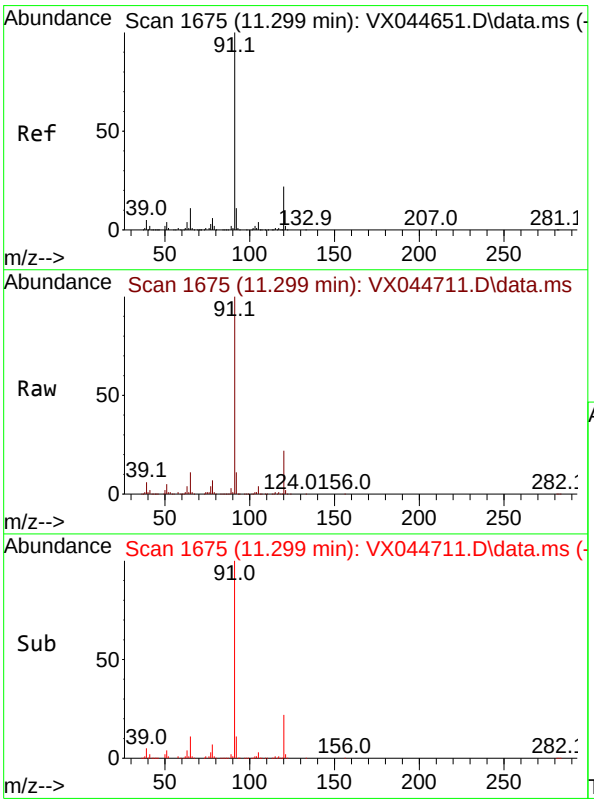

#77
Bromobenzene
Concen: 49.729 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:156 Resp: 116886

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 178.6 | 90.3 | 271.0 |
| 158 | 96.7 | 48.4 | 145.3 |

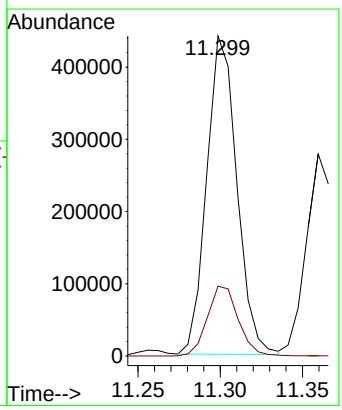


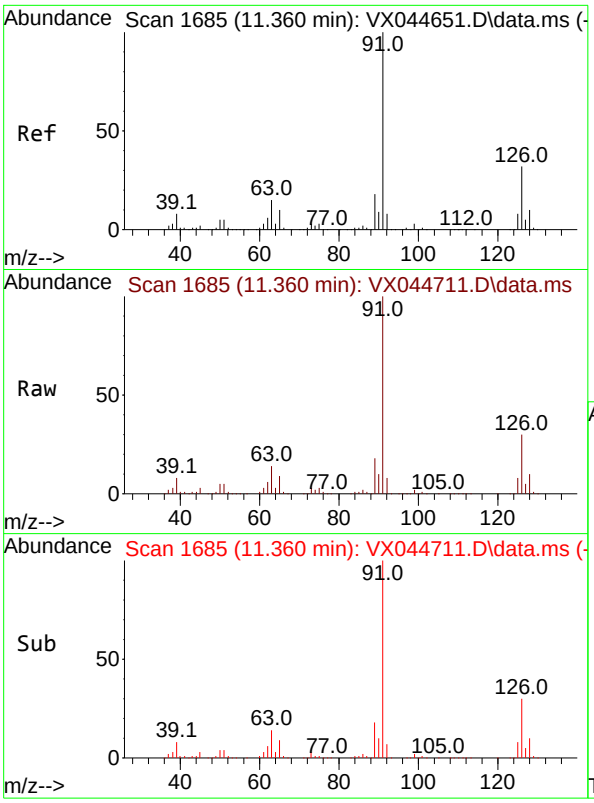




#78
n-propylbenzene
Concen: 50.743 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 91 Resp: 562742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.4 | 34.1 |



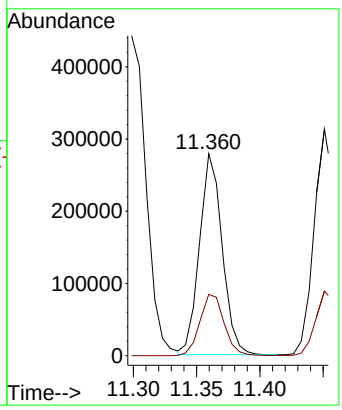


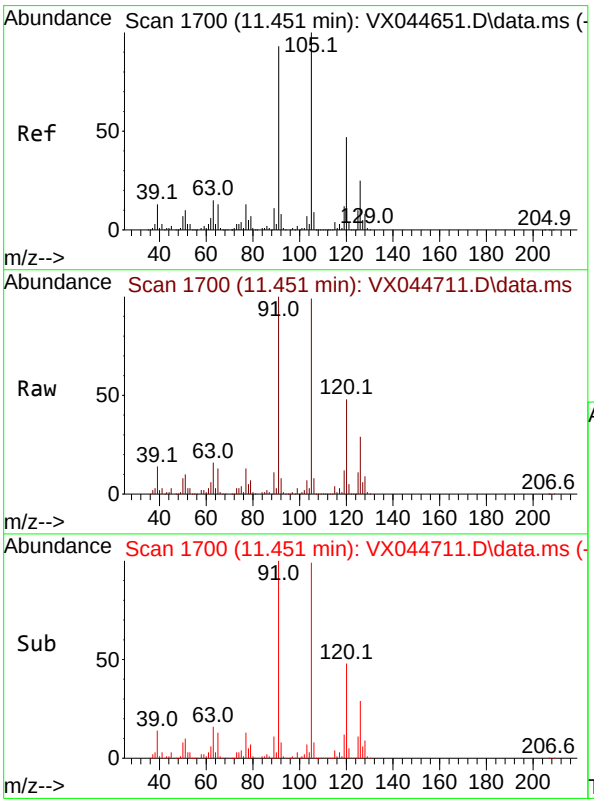

#79
2-Chlorotoluene
Concen: 48.661 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 348599

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.6 | 16.2 | 48.5 |

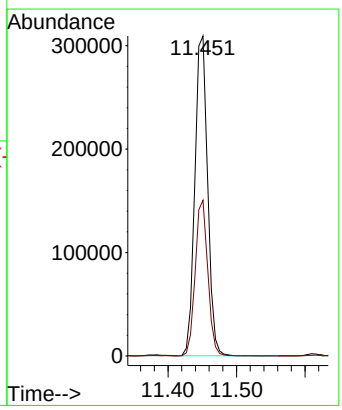


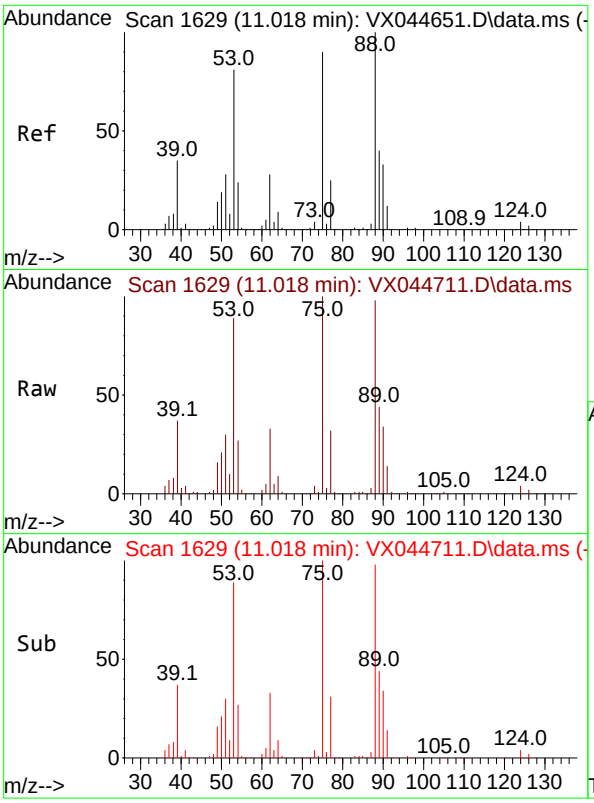




#80
1,3,5-Trimethylbenzene
Concen: 49.198 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:105 Resp: 402748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.0 | 23.7 | 71.1 |



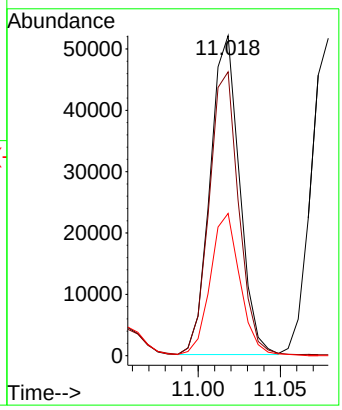


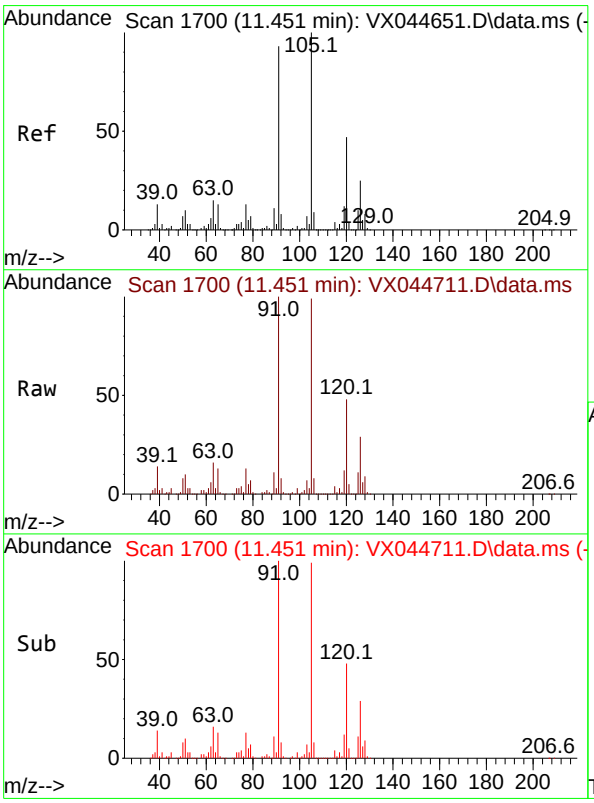

#81
trans-1,4-Dichloro-2-butene
Concen: 49.439 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 75 Resp: 64582

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 90.9 | 74.3 | 111.5 |
| 89 | 45.4 | 37.4 | 56.0 |

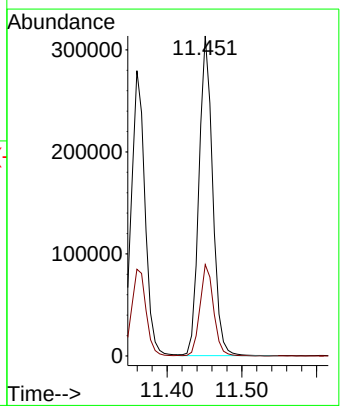


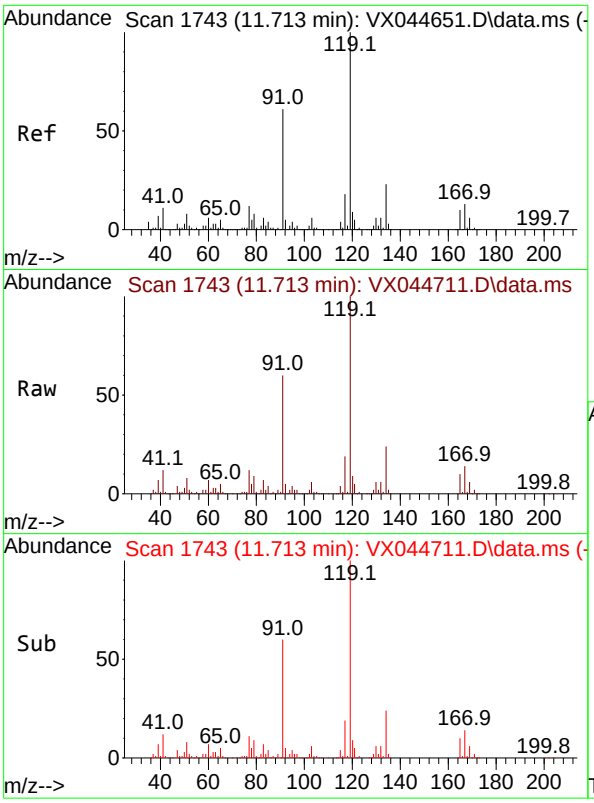




#82
4-Chlorotoluene
Concen: 50.588 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 91 Resp: 396992

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.5 | 13.9 | 41.7 |



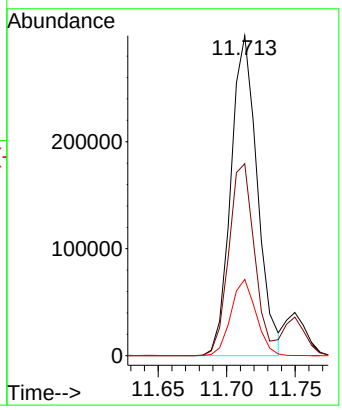


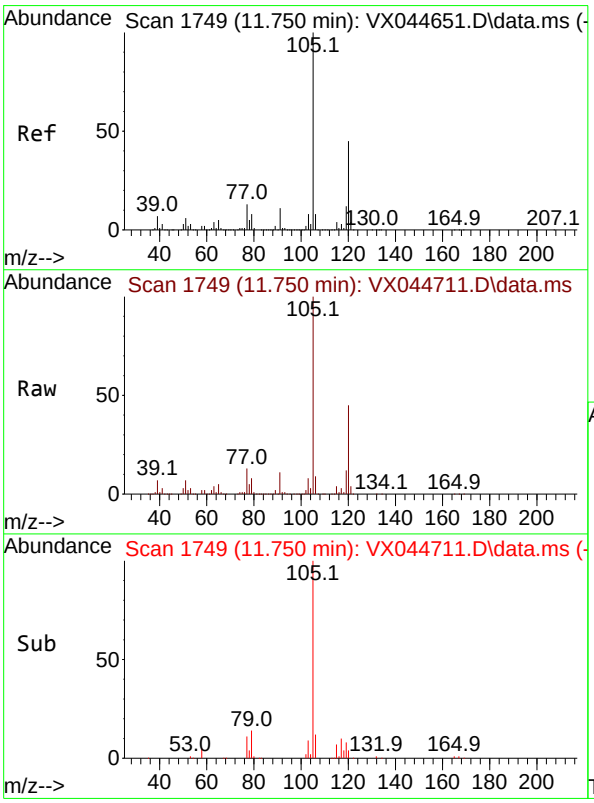

#83
tert-Butylbenzene
Concen: 46.992 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:119 Resp: 402232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 57.8 | 30.0 | 90.0 |
| 134 | 22.8 | 11.2 | 33.5 |

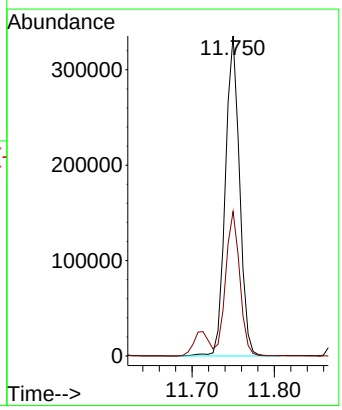


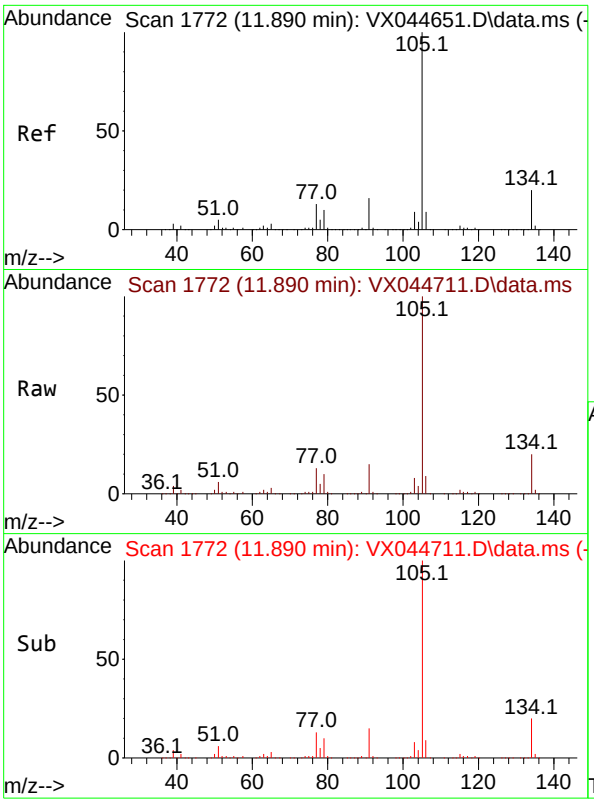




#84
1,2,4-Trimethylbenzene
Concen: 48.633 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:105 Resp: 404571

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.8 | 22.2 | 66.6 |



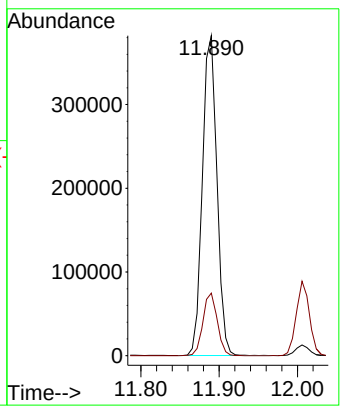


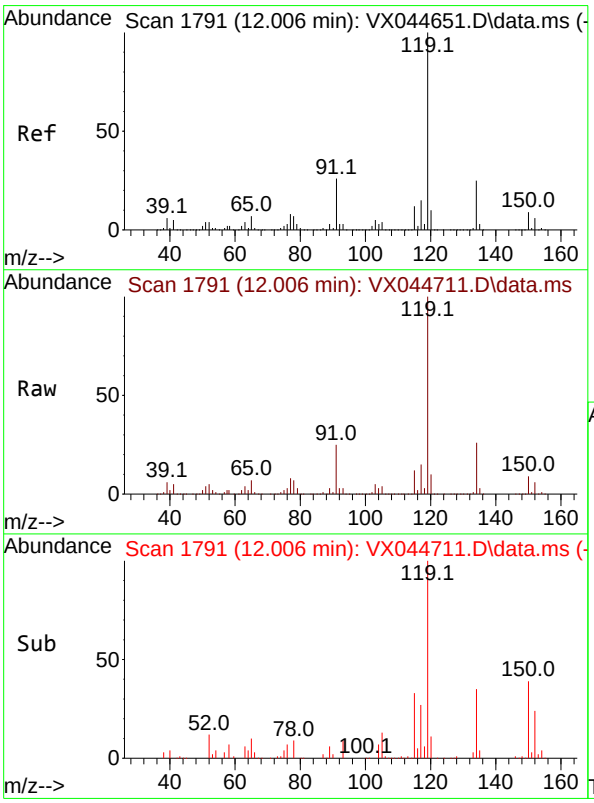

#85
sec-Butylbenzene
Concen: 49.309 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:105 Resp: 491434

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.8 | 29.5 |

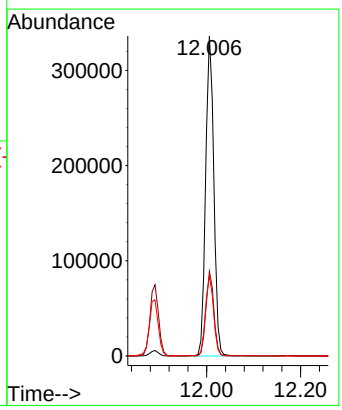


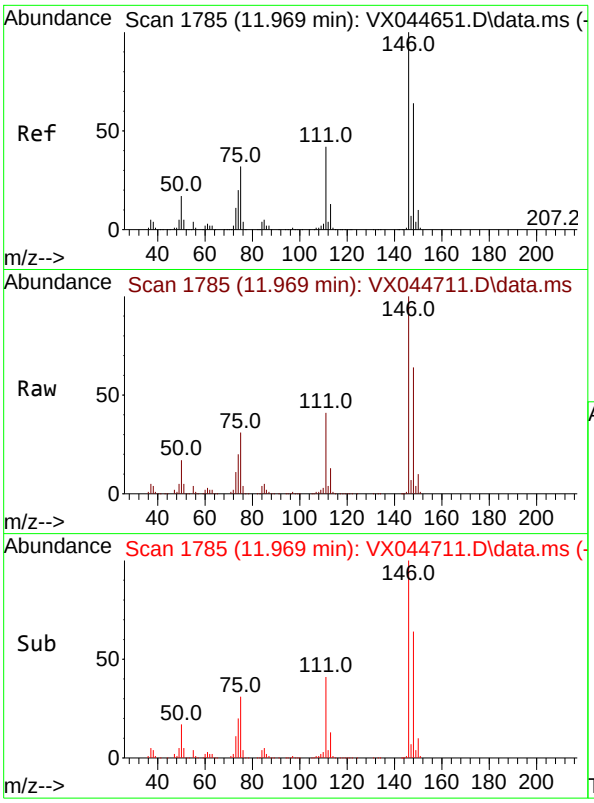




#86
p-Isopropyltoluene
Concen: 49.439 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:119 Resp: 404929

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.8 | 38.4 |
| 91 | 24.7 | 12.7 | 38.1 |



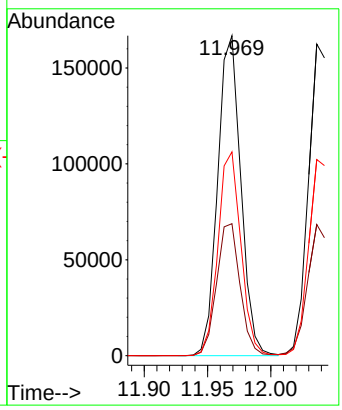


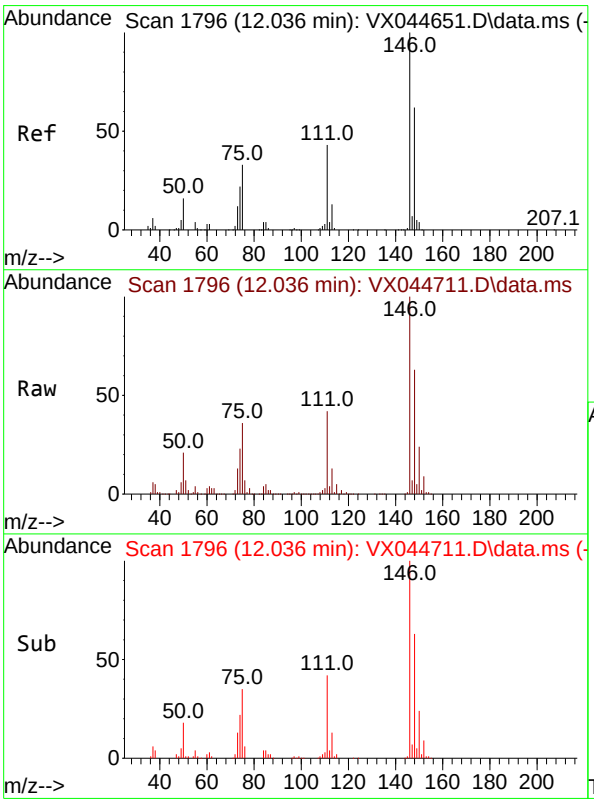

#87
1,3-Dichlorobenzene
Concen: 52.016 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 212027

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.0 | 21.9 | 65.7 |
| 148 | 63.3 | 31.8 | 95.4 |

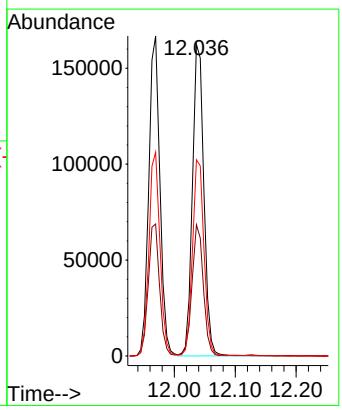


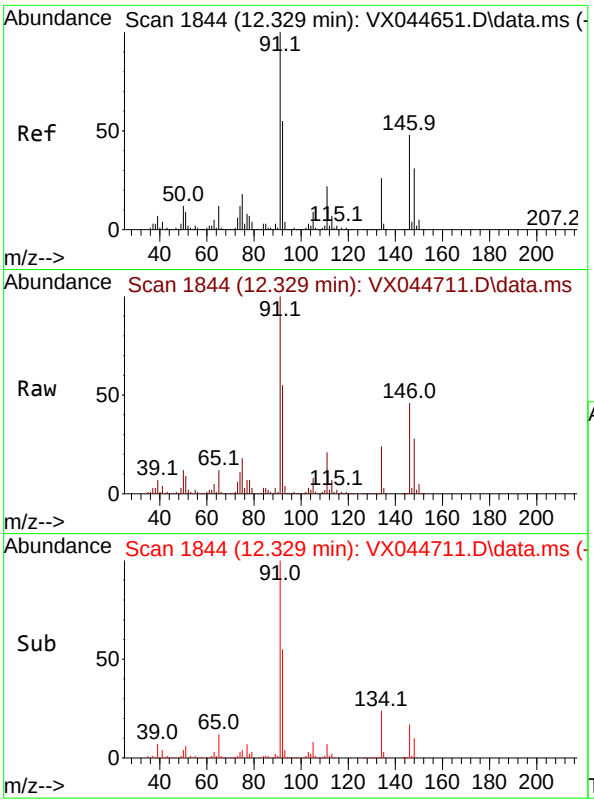




#88
1,4-Dichlorobenzene
Concen: 51.247 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:146 Resp: 211171

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.6 | 21.5 | 64.5 |
| 148 | 63.1 | 32.1 | 96.5 |



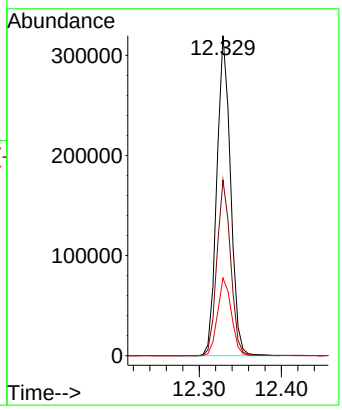


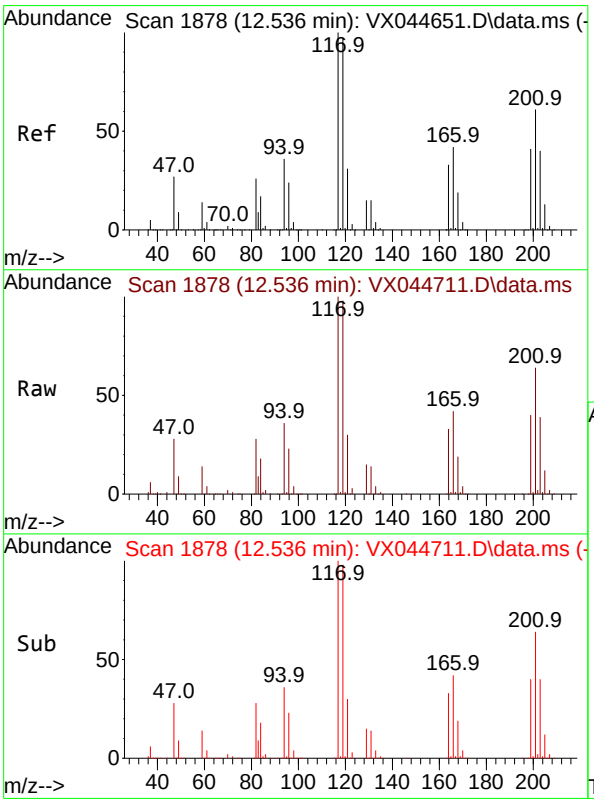

#89
n-Butylbenzene
Concen: 52.602 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion: 91 Resp: 370043

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.7 | 27.4 | 82.0 |
| 134 | 24.6 | 12.8 | 38.3 |

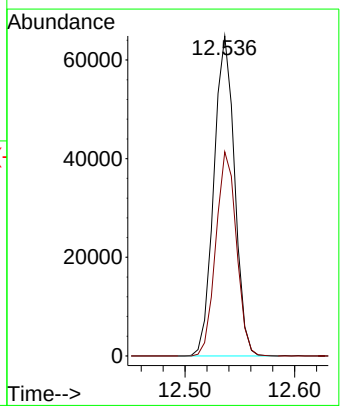


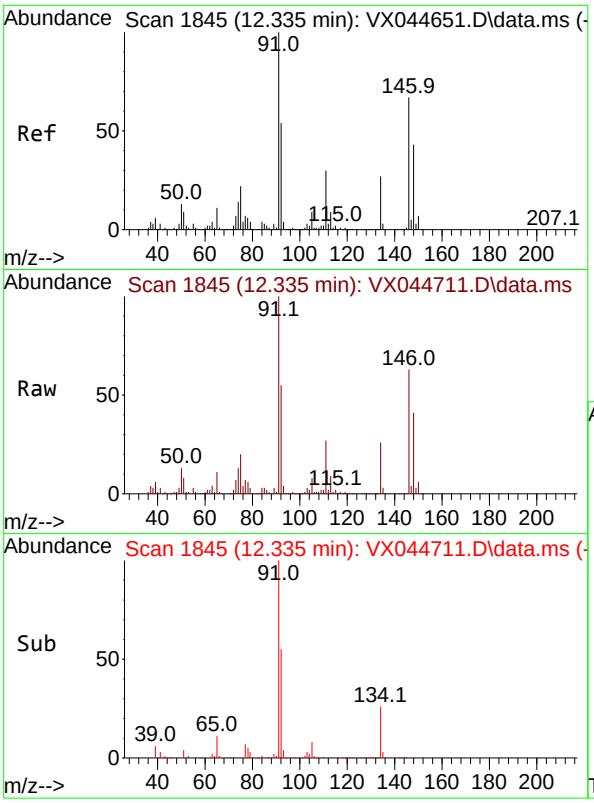




#90
Hexachloroethane
Concen: 45.956 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:117 Resp: 85234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.5 | 32.3 | 96.8 |



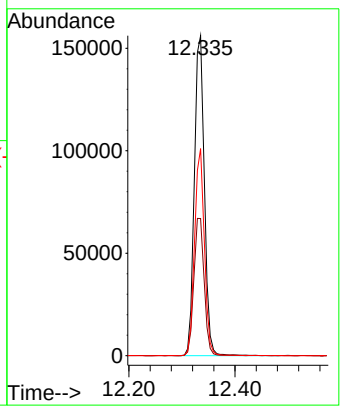


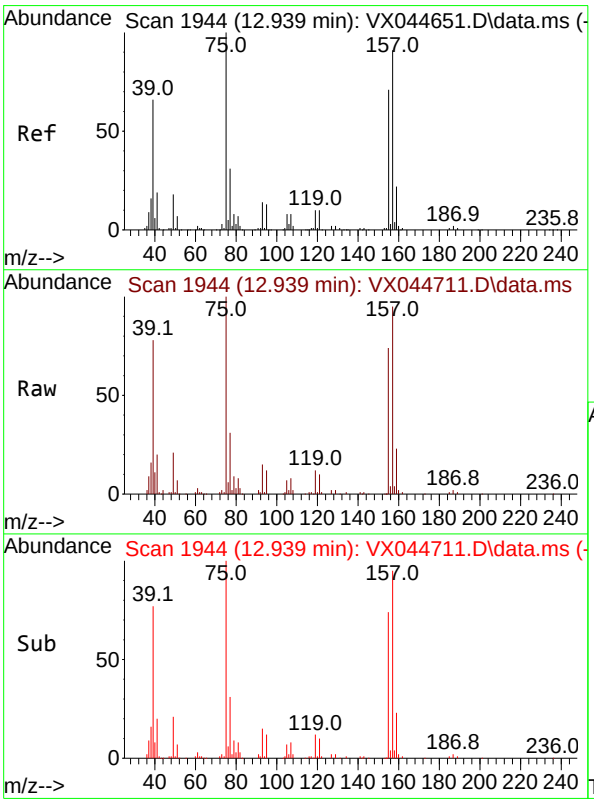

#91
1,2-Dichlorobenzene
Concen: 48.972 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:146 Resp: 205003

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 44.1 | 22.4 | 67.2 |
| 148 | 63.4 | 31.6 | 94.8 |

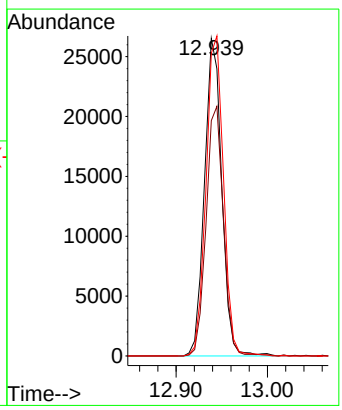


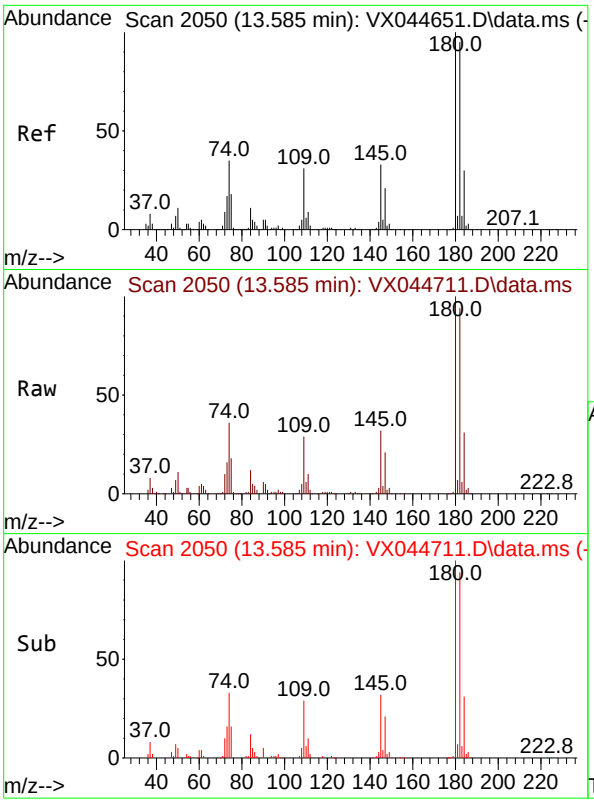




#92
1,2-Dibromo-3-Chloropropane
Concen: 40.823 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion: 75 Resp: 34674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 79.1 | 39.0 | 116.9 |
| 157 | 101.9 | 49.9 | 149.7 |



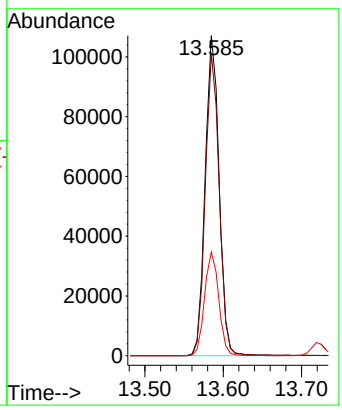


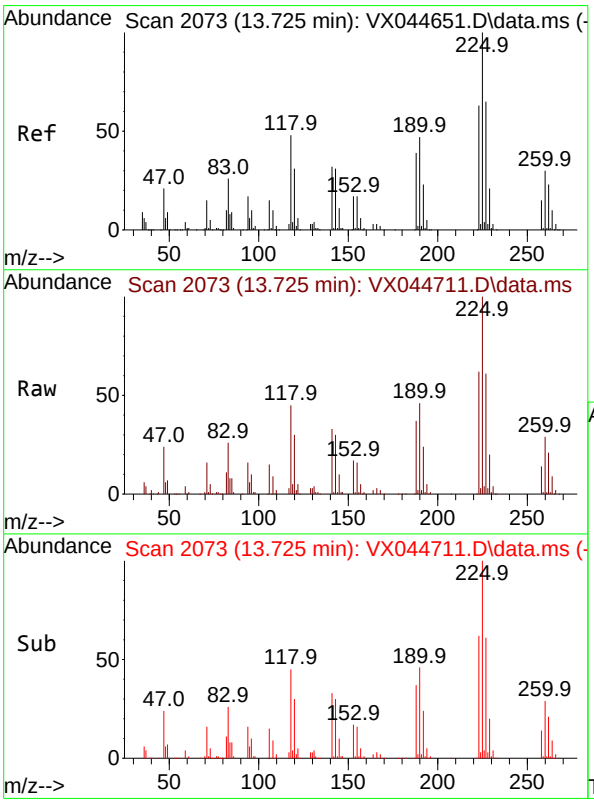

#93
1,2,4-Trichlorobenzene
Concen: 52.765 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:180 Resp: 132044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 47.4 | 142.2 |
| 145 | 33.0 | 16.7 | 50.1 |

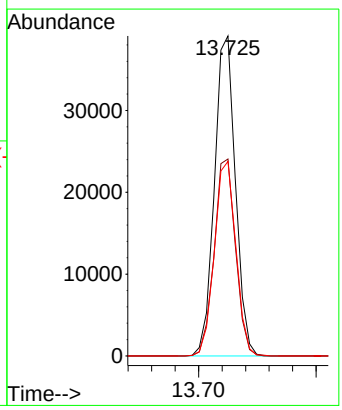


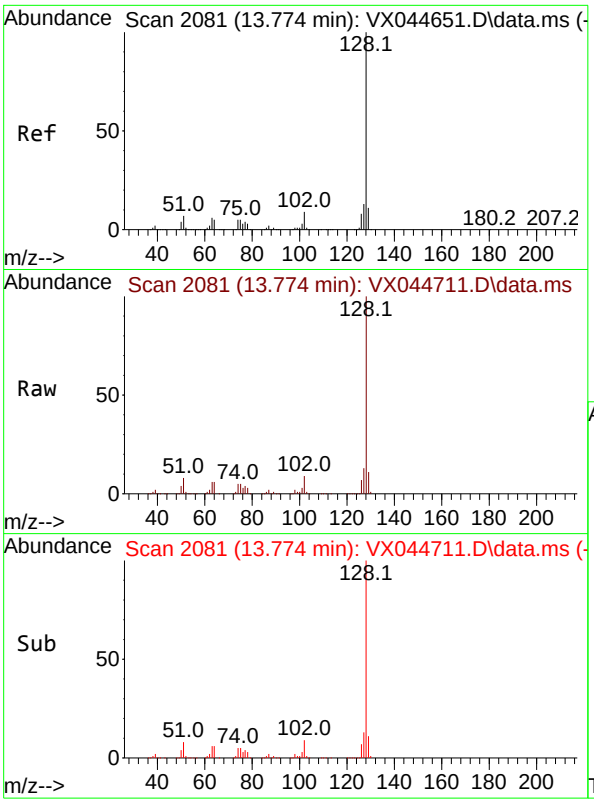




#94
Hexachlorobutadiene
Concen: 49.450 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:225 Resp: 48609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.5 | 31.9 | 95.7 |
| 227 | 62.1 | 31.8 | 95.4 |



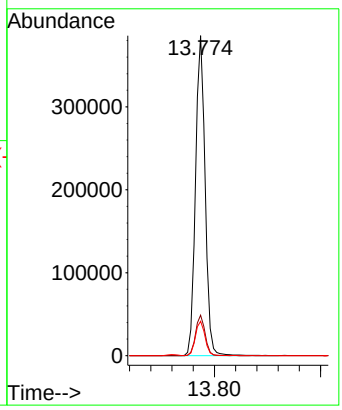


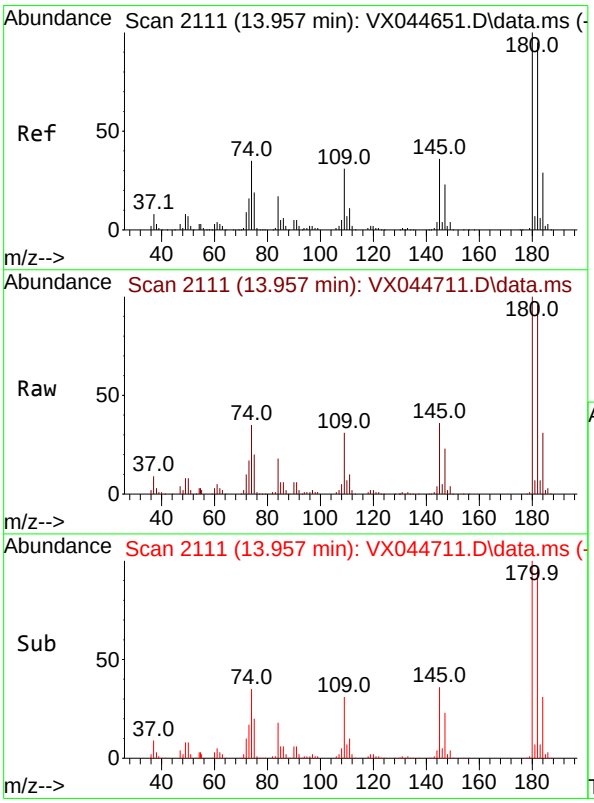

#95
Naphthalene
Concen: 50.197 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050

Tgt Ion:128 Resp: 484495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.3 | 15.5 |
| 129 | 10.8 | 8.7 | 13.1 |

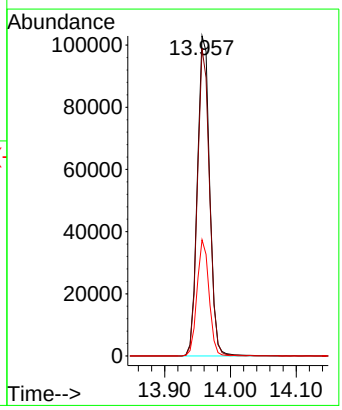



#96
1,2,3-Trichlorobenzene
Concen: 51.628 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044711.D
Acq: 27 Jan 2025 10:08

Tgt Ion:180 Resp: 133922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.2 | 141.6 |
| 145 | 35.4 | 17.5 | 52.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044714.D
Acq On : 27 Jan 2025 11:24
Operator : JC/MD
Sample : VX0127WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Quant Time: Jan 28 04:08:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.543 | 168 | 194501 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 349402 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 294902 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 132232 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 122056 | 41.574 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 83.140% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 101687 | 45.811 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 91.620% | | | |
| 50) Toluene-d8 | 8.640 | 98 | 374408 | 48.375 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 96.760% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 134911 | 46.759 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 93.520% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 44749 | 17.097 | ug/l | 97 |
| 3) Chloromethane | 1.300 | 50 | 53678 | 18.965 | ug/l | 98 |
| 4) Vinyl Chloride | 1.373 | 62 | 48425 | 17.316 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 12630 | 18.914 | ug/l | 98 |
| 6) Chloroethane | 1.666 | 64 | 19537 | 38.097 | ug/l | 98 |
| 7) Trichlorofluoromethane | 1.873 | 101 | 51664 | 16.716 | ug/l | 100 |
| 8) Diethyl Ether | 2.129 | 74 | 17567 | 14.084 | ug/l | 95 |
| 9) 1,1,2-Trichlorotrifluo... | 2.318 | 101 | 42834 | 18.436 | ug/l | 97 |
| 10) Methyl Iodide | 2.446 | 142 | 52896 | 16.675 | ug/l | 98 |
| 11) Tert butyl alcohol | 2.977 | 59 | 51998 | 79.447 | ug/l # | 84 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 42270 | 18.561 | ug/l | 97 |
| 13) Acrolein | 2.233 | 56 | 21403 | 69.491 | ug/l | 99 |
| 14) Allyl chloride | 2.660 | 41 | 77088 | 17.385 | ug/l | 98 |
| 15) Acrylonitrile | 3.062 | 53 | 116149 | 90.479 | ug/l | 100 |
| 16) Acetone | 2.379 | 43 | 93908 | 80.848 | ug/l | 99 |
| 17) Carbon Disulfide | 2.501 | 76 | 114283 | 18.390 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 64807 | 18.085 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 141970 | 17.211 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 47323 | 17.495 | ug/l | 99 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 41613 | 17.501 | ug/l | 98 |
| 22) Diisopropyl ether | 3.757 | 45 | 145799 | 18.916 | ug/l | 95 |
| 23) Vinyl Acetate | 3.715 | 43 | 610713 | 90.524 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 82157 | 17.974 | ug/l | 100 |
| 25) 2-Butanone | 4.556 | 43 | 155565 | 90.078 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.464 | 77 | 70010 | 15.804 | ug/l | 96 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 52012 | 17.390 | ug/l | 98 |
| 28) Bromochloromethane | 4.891 | 49 | 39674 | 18.575 | ug/l | 95 |
| 29) Tetrahydrofuran | 5.001 | 42 | 100494 | 90.213 | ug/l | 98 |
| 30) Chloroform | 5.086 | 83 | 79982 | 17.339 | ug/l | 99 |
| 31) Cyclohexane | 5.464 | 56 | 74004 | 20.018 | ug/l | 98 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 68369 | 16.122 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.690 | 75 | 54103 | 17.510 | ug/l | 99 |
| 37) Ethyl Acetate | 4.714 | 43 | 59455 | 18.069 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.672 | 117 | 58196 | 16.744 | ug/l | 99 |
| 39) Methylcyclohexane | 7.372 | 83 | 75160 | 18.324 | ug/l | 100 |
| 40) Benzene | 6.031 | 78 | 177558 | 18.544 | ug/l | 97 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044714.D
Acq On : 27 Jan 2025 11:24
Operator : JC/MD
Sample : VX0127WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Quant Time: Jan 28 04:08:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 33769 | 17.612 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 56940 | 16.294 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.336 | 43 | 106960 | 17.670 | ug/l | | 99 |
| 44) Trichloroethene | 7.122 | 130 | 40285 | 17.501 | ug/l | | 97 |
| 45) 1,2-Dichloropropane | 7.421 | 63 | 44906 | 18.632 | ug/l | | 99 |
| 46) Dibromomethane | 7.580 | 93 | 31751 | 17.306 | ug/l | | 98 |
| 47) Bromodichloromethane | 7.817 | 83 | 64021 | 17.015 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.689 | 41 | 50455 | 17.957 | ug/l | | 98 |
| 49) 1,4-Dioxane | 7.659 | 88 | 22357 | 381.373 | ug/l | | 98 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 320897 | 95.928 | ug/l | | 99 |
| 52) Toluene | 8.714 | 92 | 107306 | 18.310 | ug/l | | 97 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 66983 | 17.231 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 73698 | 17.484 | ug/l | | 99 |
| 55) 1,1,2-Trichloroethane | 9.146 | 97 | 43335 | 18.277 | ug/l | | 98 |
| 56) Ethyl methacrylate | 9.116 | 69 | 73260 | 17.970 | ug/l | | 99 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 73374 | 18.173 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 155542 | 77.714 | ug/l | | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 235185 | 95.563 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 47865 | 17.200 | ug/l | | 98 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 43546 | 17.525 | ug/l | | 99 |
| 64) Tetrachloroethene | 9.268 | 164 | 34603 | 18.686 | ug/l | | 96 |
| 65) Chlorobenzene | 10.073 | 112 | 116677 | 18.627 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 39444 | 17.327 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 203496 | 18.619 | ug/l | | 99 |
| 68) m/p-Xylenes | 10.299 | 106 | 154315 | 38.048 | ug/l | | 97 |
| 69) o-Xylene | 10.640 | 106 | 76225 | 18.584 | ug/l | | 100 |
| 70) Styrene | 10.652 | 104 | 127161 | 19.202 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 32859 | 17.735 | ug/l | # | 100 |
| 73) Isopropylbenzene | 10.957 | 105 | 192068 | 17.780 | ug/l | | 100 |
| 74) N-amyl acetate | 10.841 | 43 | 92250 | 17.326 | ug/l | | 98 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 67283 | 18.034 | ug/l | | 99 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 72333 | 22.540 | ug/l | | 82 |
| 77) Bromobenzene | 11.195 | 156 | 44539 | 17.640 | ug/l | | 97 |
| 78) n-propylbenzene | 11.299 | 91 | 218400 | 18.333 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 137301 | 17.842 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 158002 | 17.967 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 23991 | 17.096 | ug/l | | 95 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 153401 | 18.197 | ug/l | | 97 |
| 83) tert-Butylbenzene | 11.713 | 119 | 162534 | 17.676 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 159915 | 17.895 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 197899 | 18.485 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 159273 | 18.102 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 80761 | 18.444 | ug/l | | 98 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 80443 | 18.173 | ug/l | | 100 |
| 89) n-Butylbenzene | 12.329 | 91 | 140139 | 18.544 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 33393 | 16.760 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 81242 | 18.066 | ug/l | | 98 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75 | 13195 | 14.461 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 47294 | 17.593 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 18173 | 17.210 | ug/l | | 97 |
| 95) Naphthalene | 13.774 | 128 | 184203 | 17.766 | ug/l | | 100 |
| 96) 1,2,3-Trichlorobenzene | 13.957 | 180 | 49087 | 17.616 | ug/l | | 99 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044714.D
Acq On : 27 Jan 2025 11:24
Operator : JC/MD
Sample : VX0127WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Quant Time: Jan 28 04:08:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

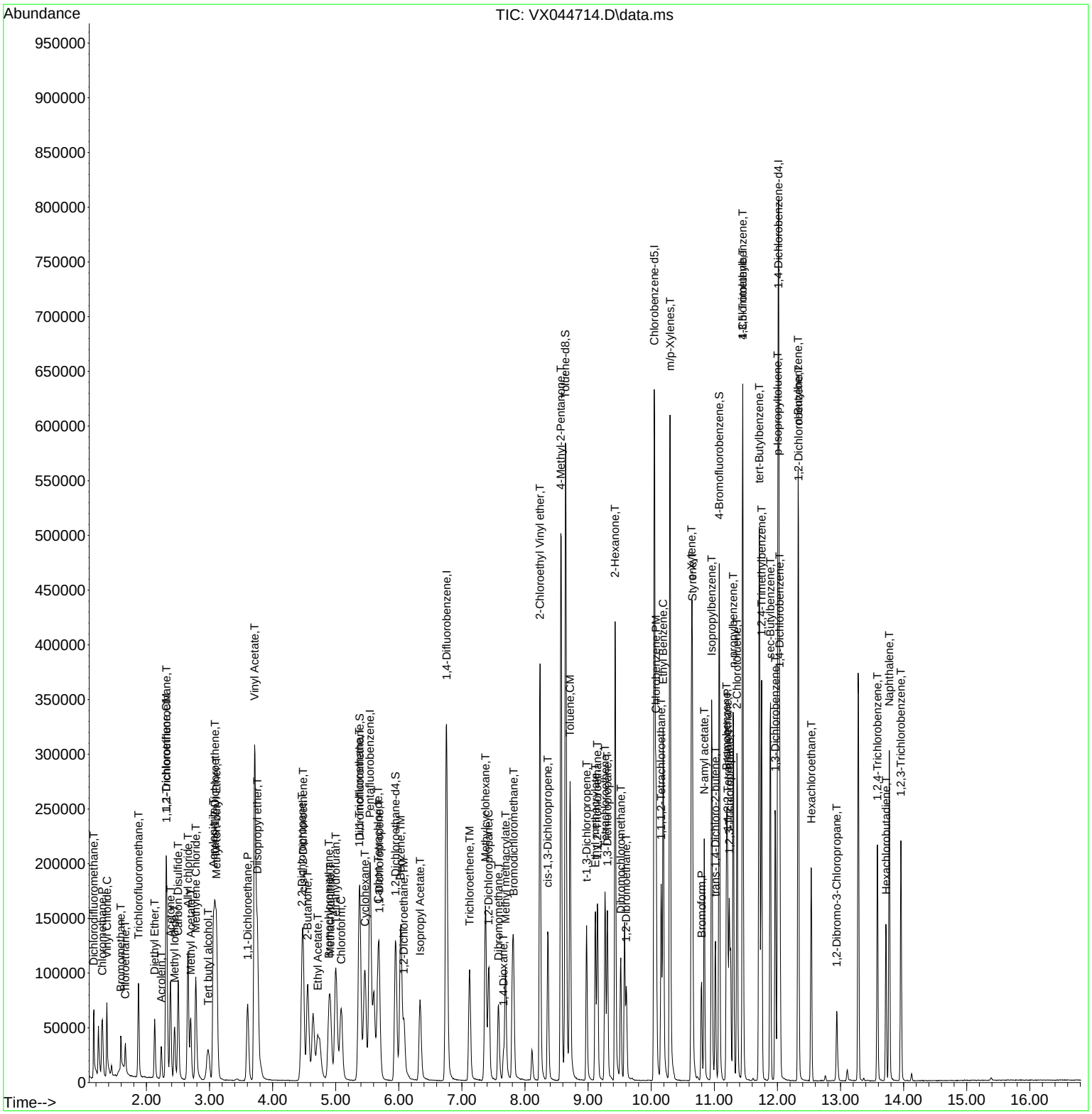
(#) = qualifier out of range (m) = manual integration (+) = signals summed

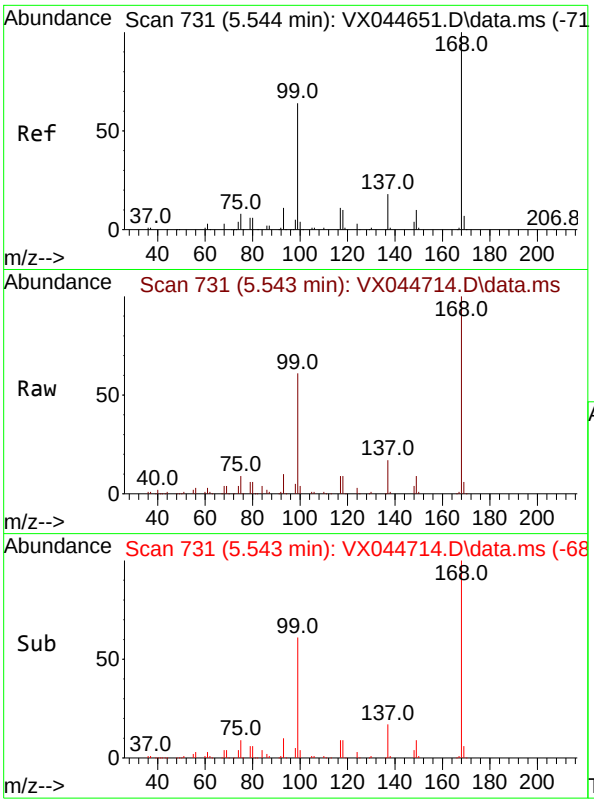
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044714.D
Acq On : 27 Jan 2025 11:24
Operator : JC/MD
Sample : VX0127WBS01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 5 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Quant Time: Jan 28 04:08:24 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



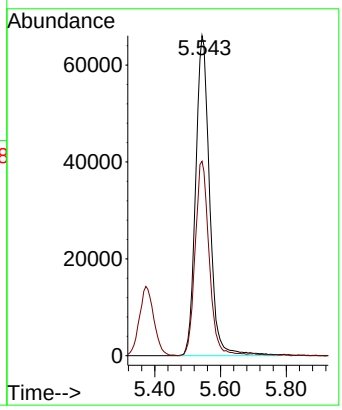


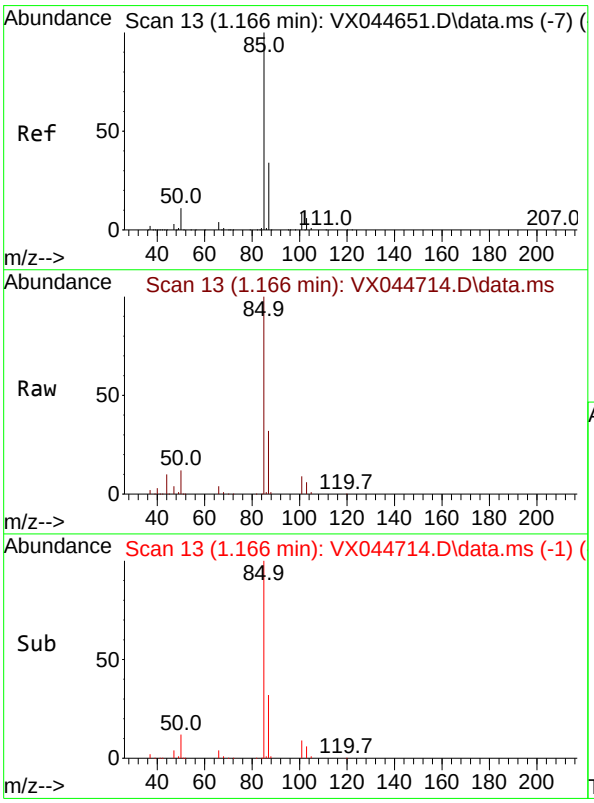

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:168 Resp: 194501

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 60.8 | 51.1 | 76.7 |

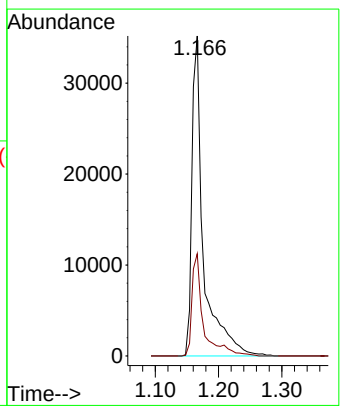


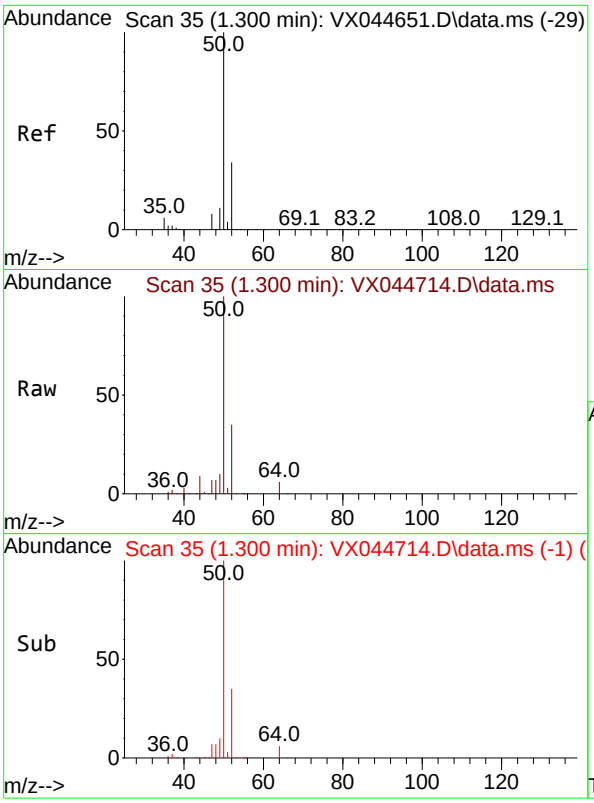




#2
Dichlorodifluoromethane
Concen: 17.097 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 85 Resp: 44749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 32.0 | 16.8 | 50.4 |



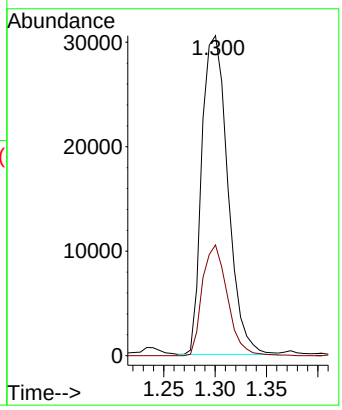


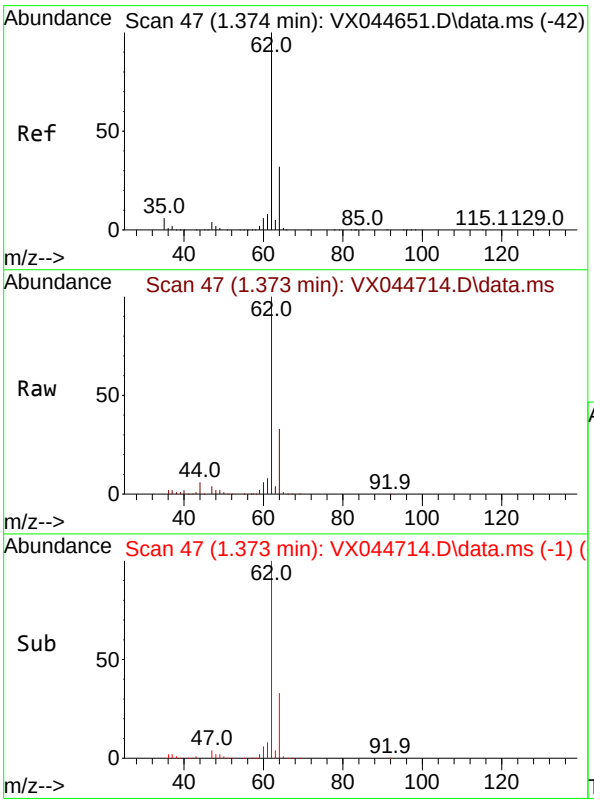

#3
Chloromethane
Concen: 18.965 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 50 Resp: 53678

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 34.7 | 27.0 | 40.4 |

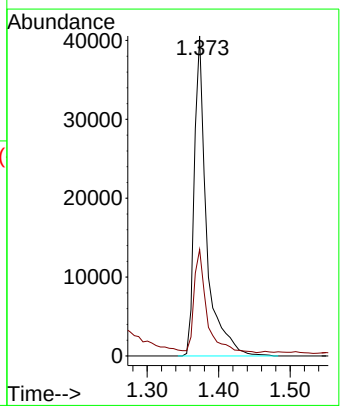


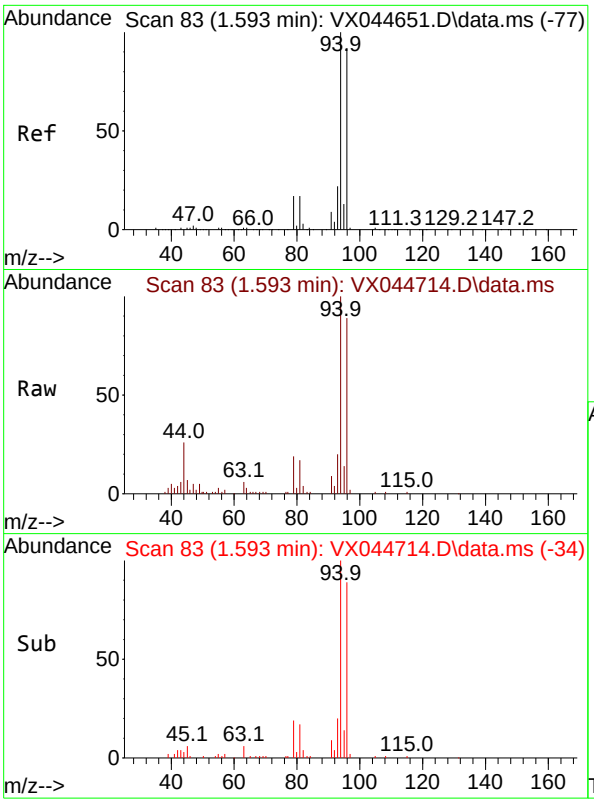




#4
Vinyl Chloride
Concen: 17.316 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 62 Resp: 48425

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 32.0 | 26.6 | 39.8 |



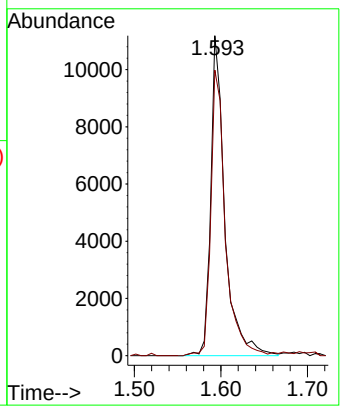


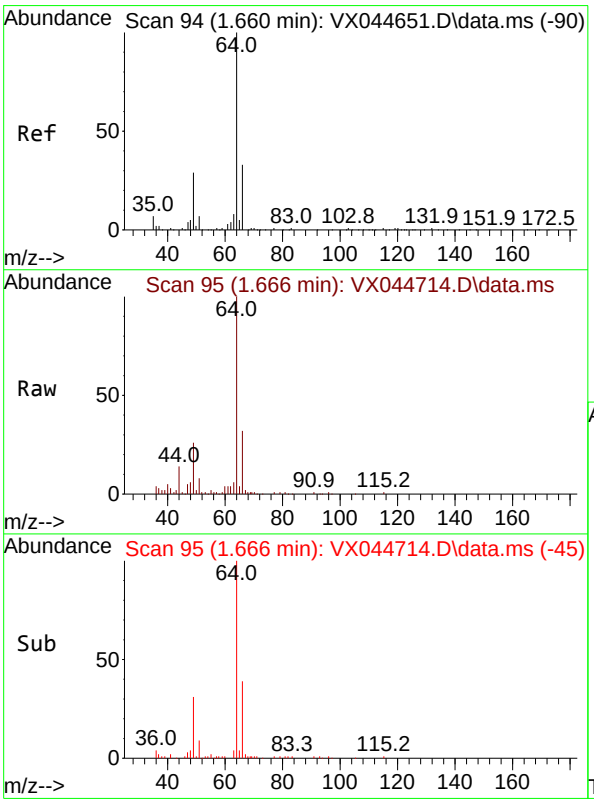

#5
Bromomethane
Concen: 18.914 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 94 Resp: 12630

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 89.3 | 72.8 | 109.2 |

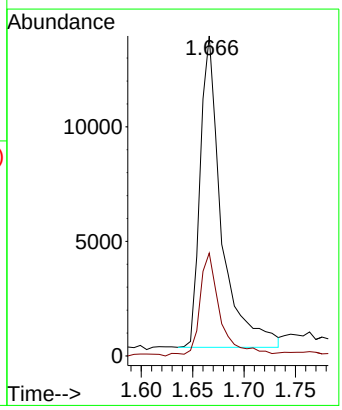


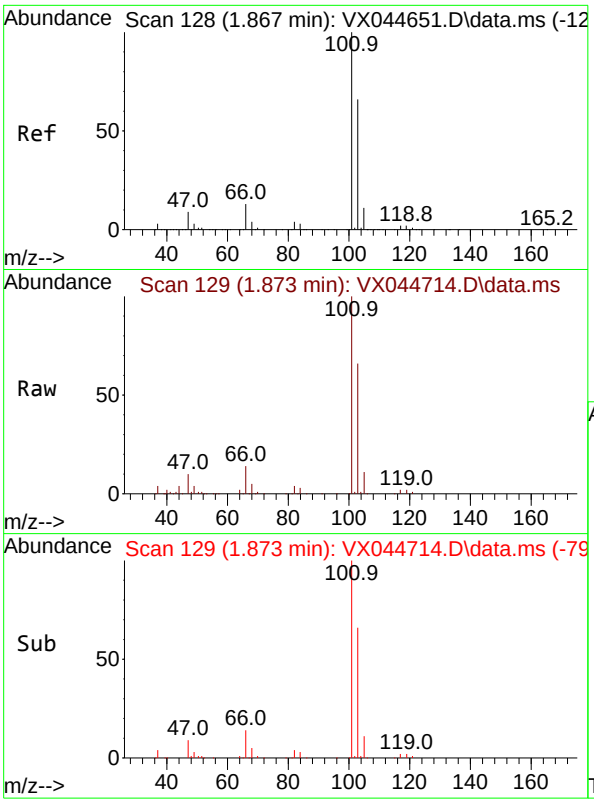




#6
Chloroethane
Concen: 38.097 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 64 Resp: 19537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 32.3 | 26.6 | 39.8 |



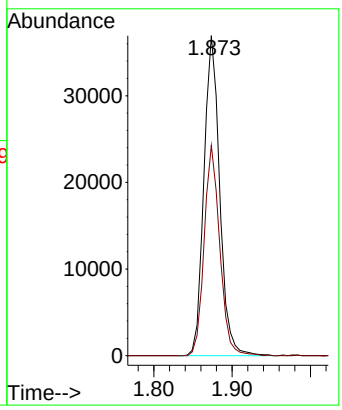


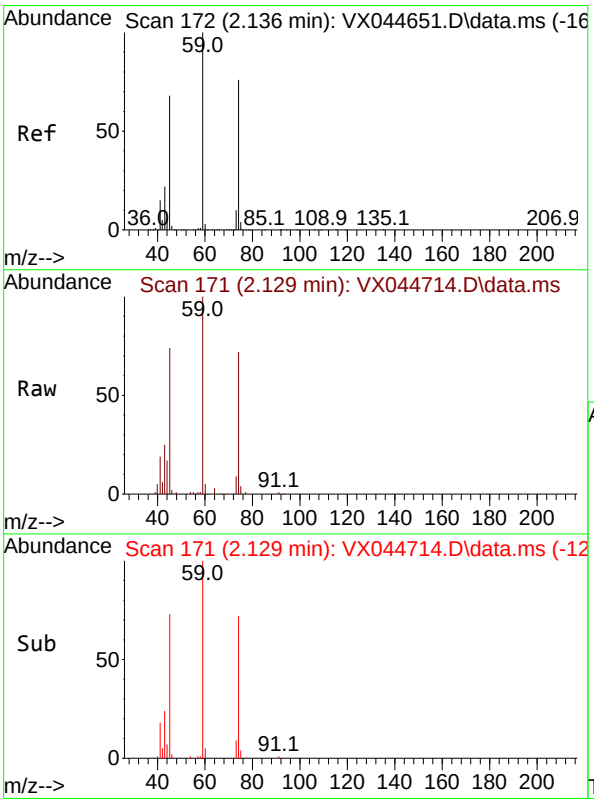

#7
Trichlorofluoromethane
Concen: 16.716 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:101 Resp: 51664

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 65.7 | 52.5 | 78.7 |

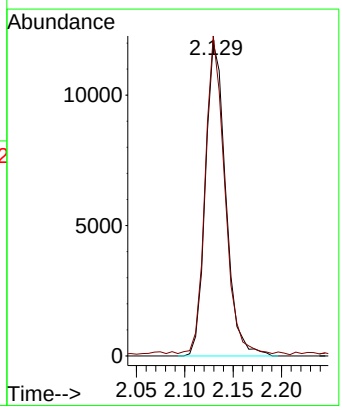


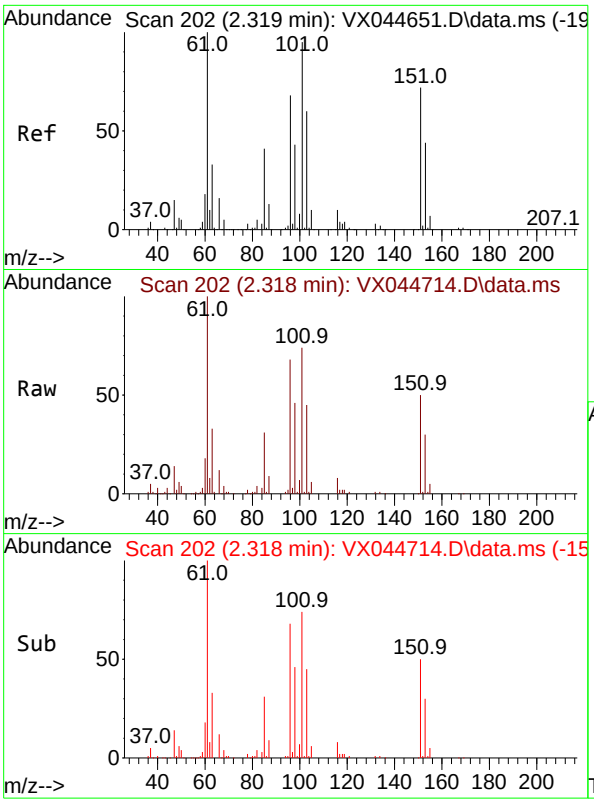




#8
Diethyl Ether
Concen: 14.084 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 74 Resp: 17567

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 98.8 | 47.1 | 141.3 |



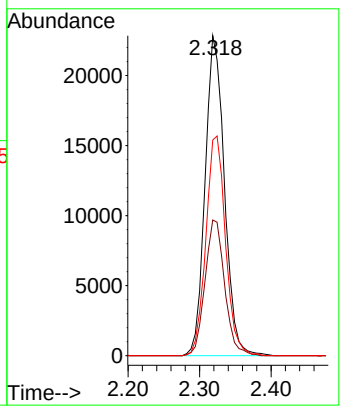


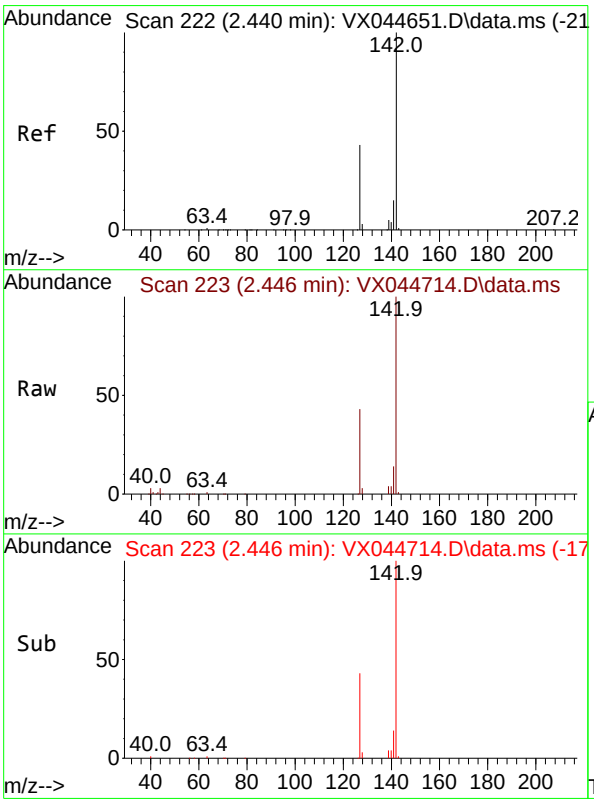

#9
1,1,2-Trichlorotrifluoroethane
Concen: 18.436 ug/l
RT: 2.318 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:101 Resp: 42834

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.2 | 35.3 | 52.9 |
| 151 | 69.9 | 58.2 | 87.4 |

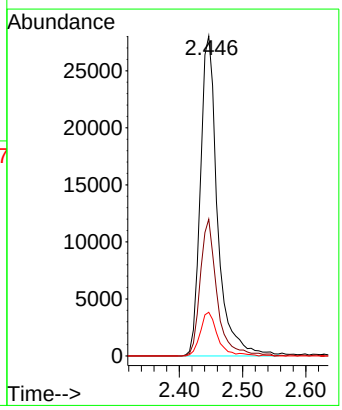


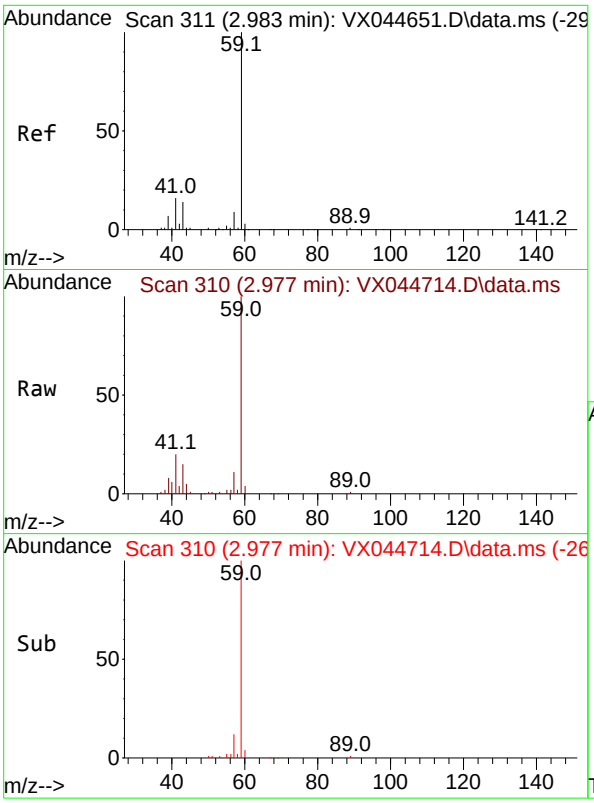




#10
Methyl Iodide
Concen: 16.675 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:142 Resp: 52896

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 42.0 | 35.0 | 52.4 |
| 141 | 13.9 | 11.7 | 17.5 |



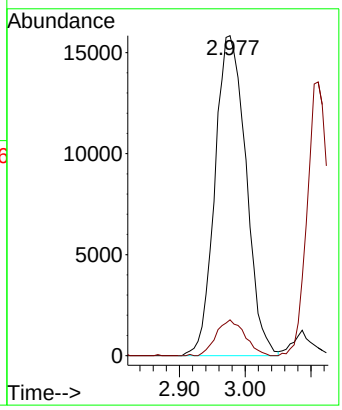


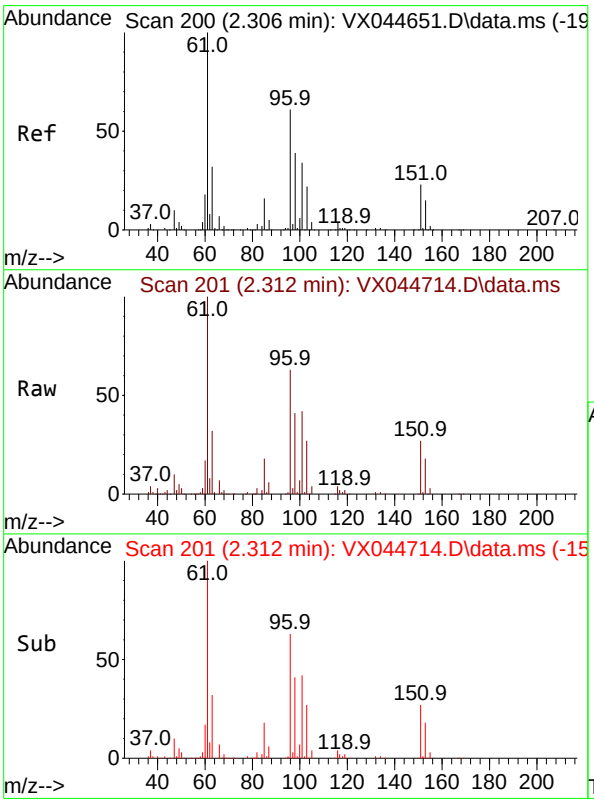

#11
Tert butyl alcohol
Concen: 79.447 ug/l
RT: 2.977 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 59 Resp: 51998

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.3 | 3.9 | 5.9# |

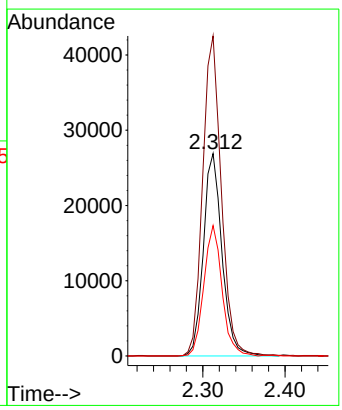


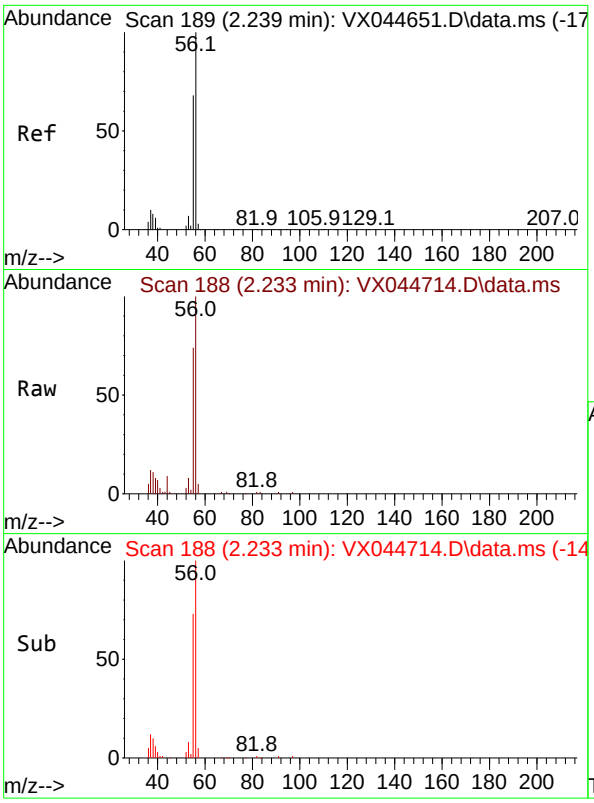




#12
1,1-Dichloroethene
Concen: 18.561 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 96 Resp: 42270

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.1 | 131.1 | 196.7 |
| 98 | 64.5 | 51.2 | 76.8 |



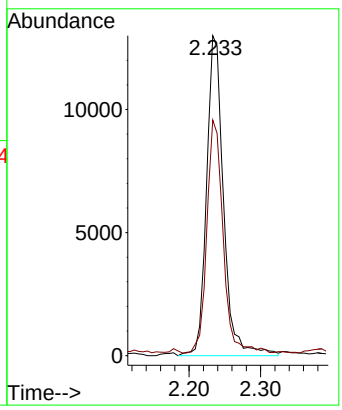


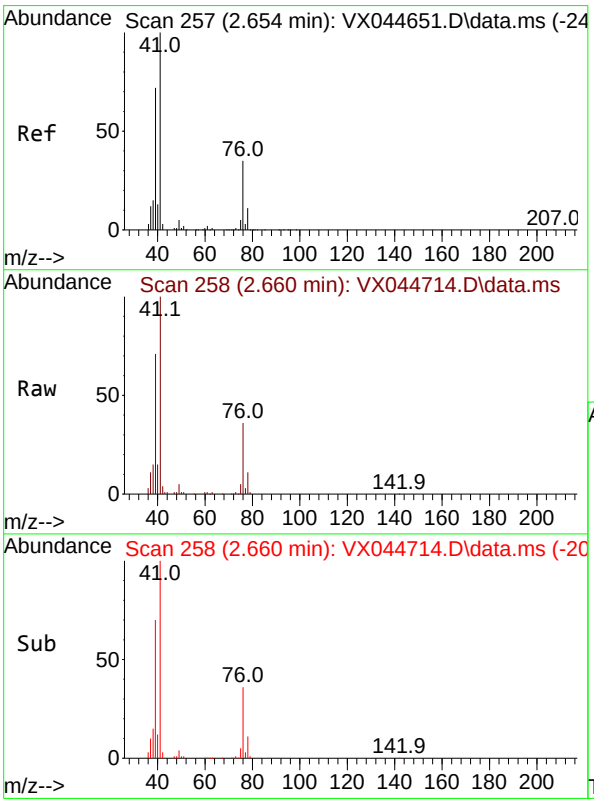

#13
Acrolein
Concen: 69.491 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 56 Resp: 21403

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.7 | 55.1 | 82.7 |

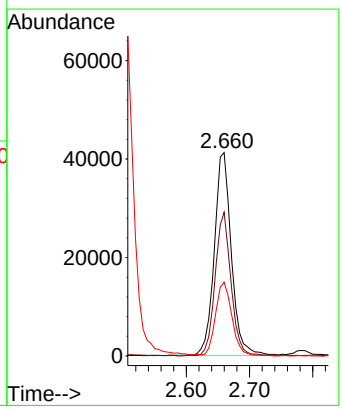


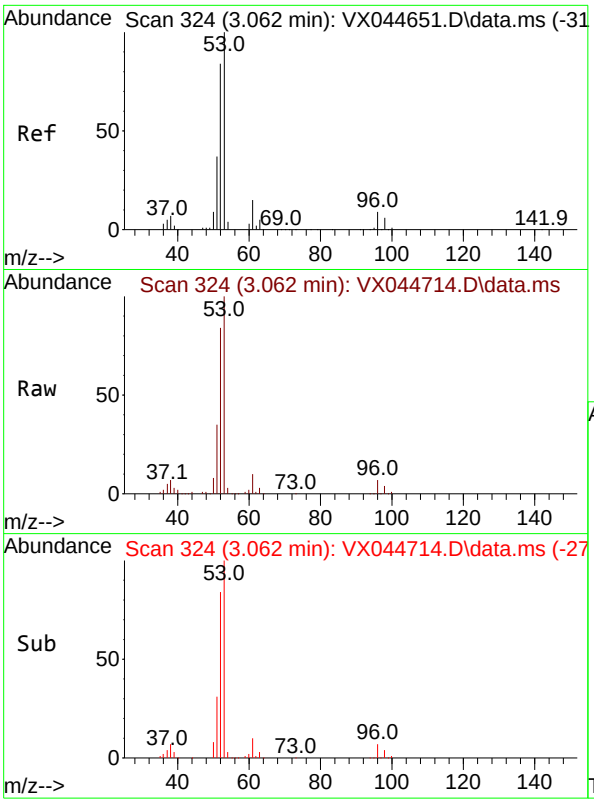




#14
Allyl chloride
Concen: 17.385 ug/l
RT: 2.660 min Scan# 258
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 41 Resp: 77088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 66.4 | 54.9 | 82.3 |
| 76 | 35.1 | 28.4 | 42.6 |



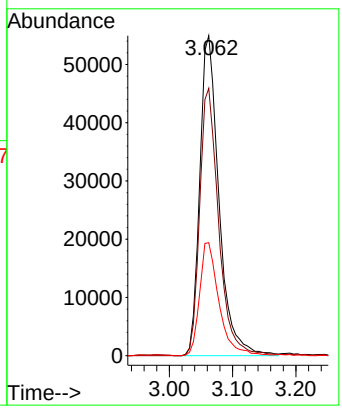


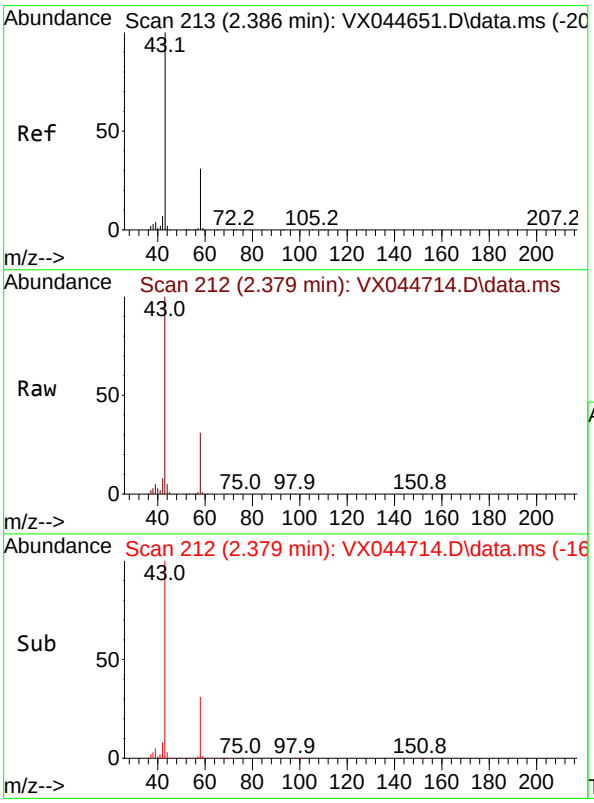

#15
Acrylonitrile
Concen: 90.479 ug/l
RT: 3.062 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 53 Resp: 116149

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 82.8 | 66.0 | 99.0 |
| 51 | 35.7 | 28.9 | 43.3 |

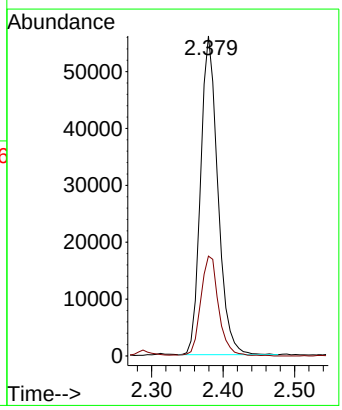


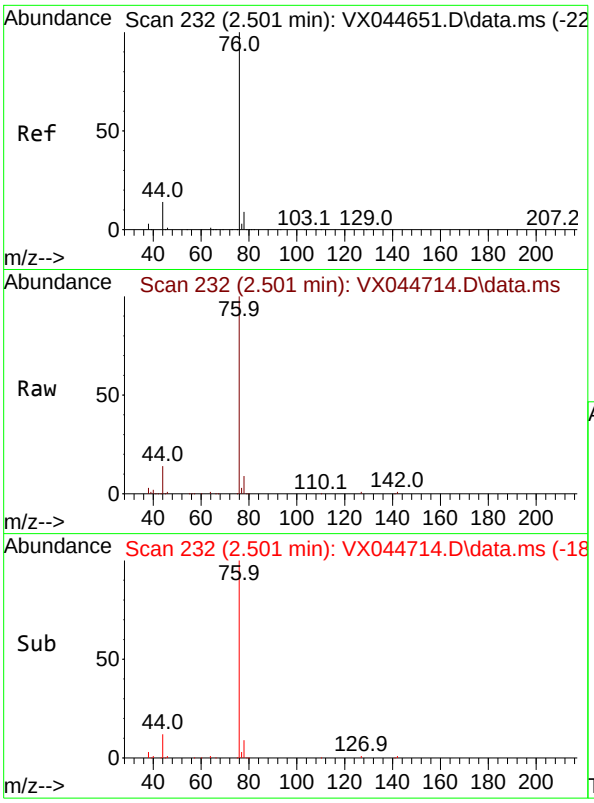




#16
Acetone
Concen: 80.848 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 43 Resp: 93908

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 31.3 | 24.6 | 37.0 |



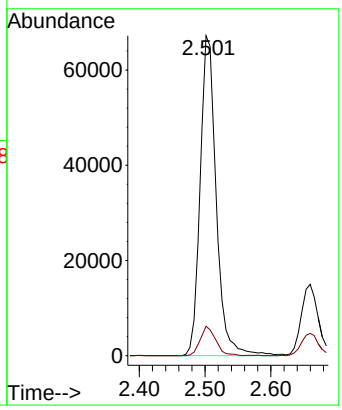


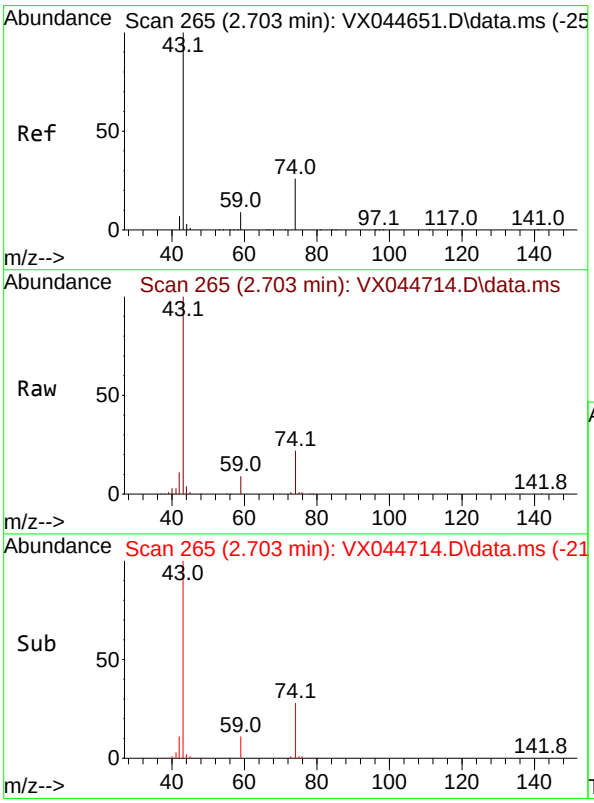

#17
Carbon Disulfide
Concen: 18.390 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 76 Resp: 114283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.1 | 10.7 |

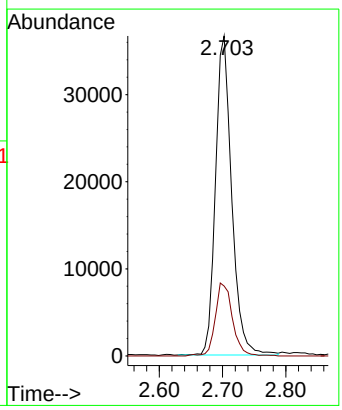


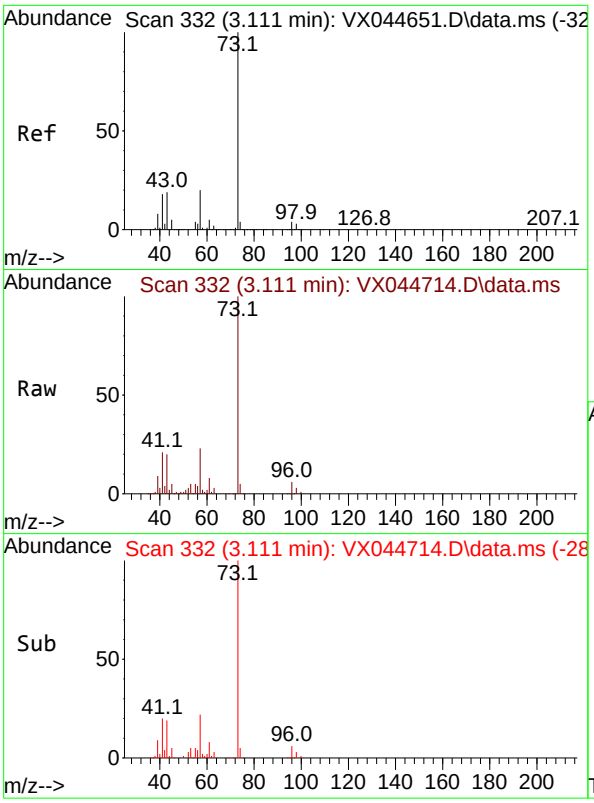




#18
Methyl Acetate
Concen: 18.085 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 43 Resp: 64807

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.4 | 19.8 | 29.8 |



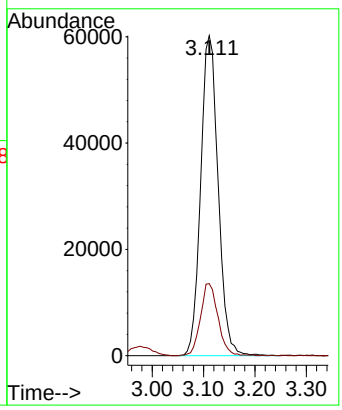


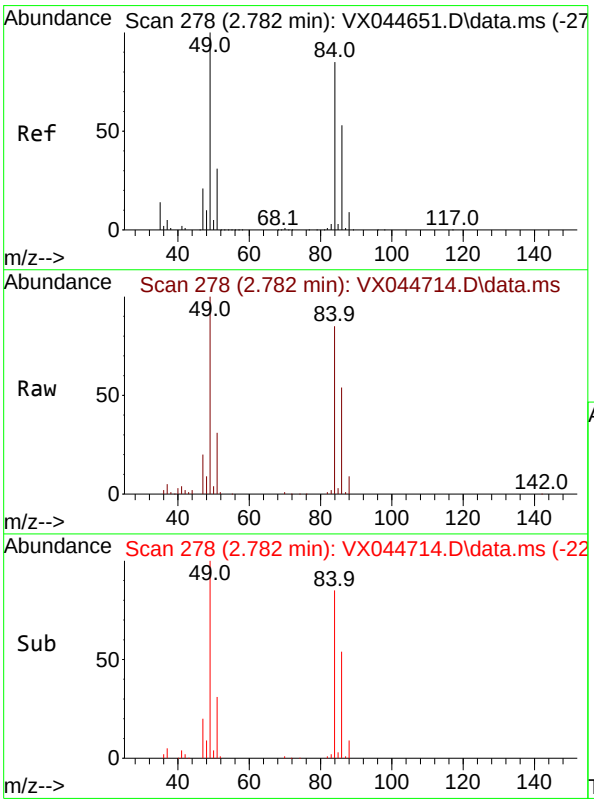

#19
Methyl tert-butyl Ether
Concen: 17.211 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 73 Resp: 141970

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.5 | 17.4 | 26.0 |

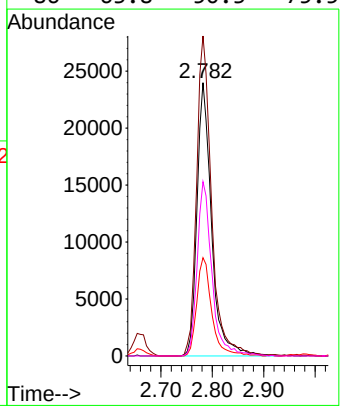


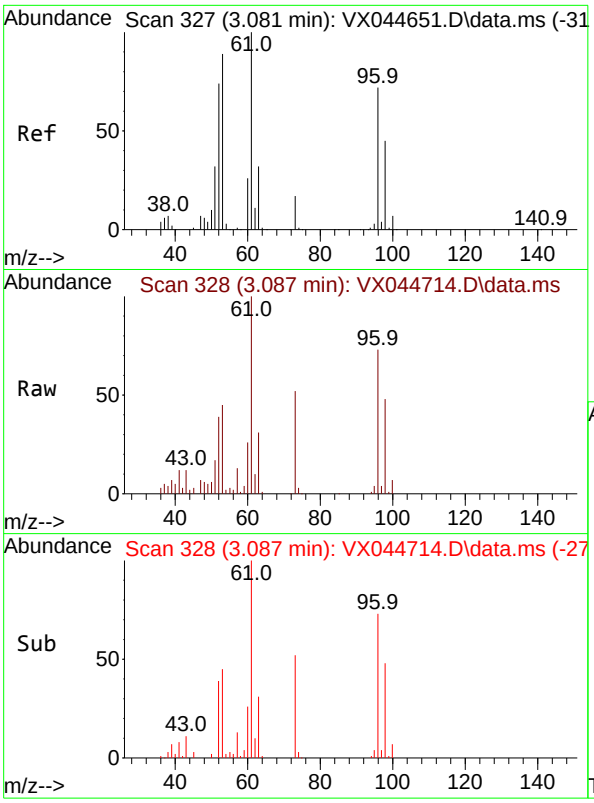




#20
Methylene Chloride
Concen: 17.495 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 84 Resp: 47323

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 117.1 | 94.2 | 141.4 |
| 51 | 36.0 | 28.8 | 43.2 |
| 86 | 63.8 | 50.3 | 75.5 |



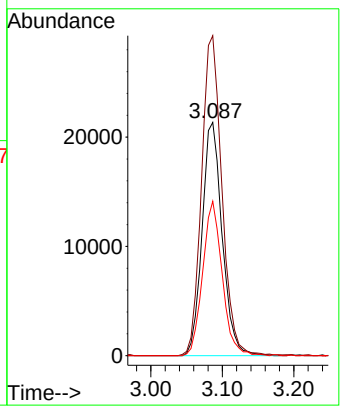


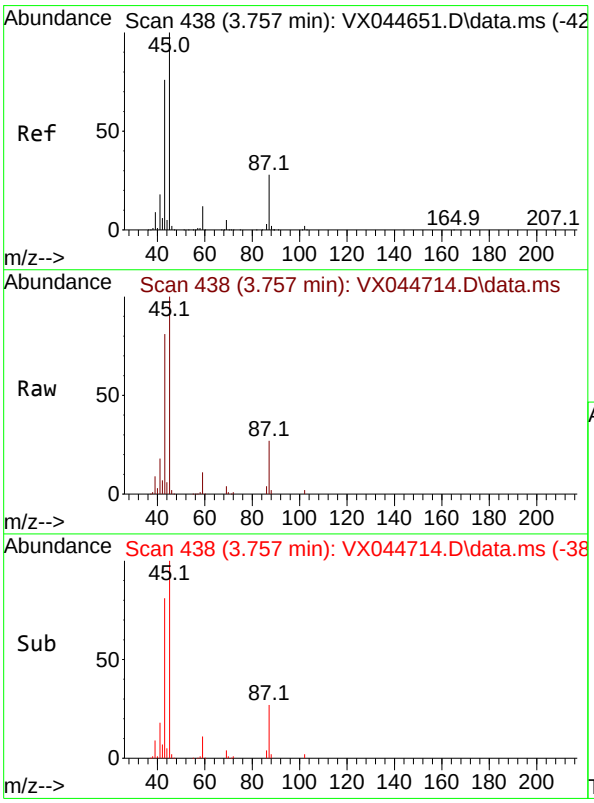

#21
trans-1,2-Dichloroethene
Concen: 17.501 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 96 Resp: 41613

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 137.2 | 111.0 | 166.6 |
| 98 | 66.2 | 50.2 | 75.2 |

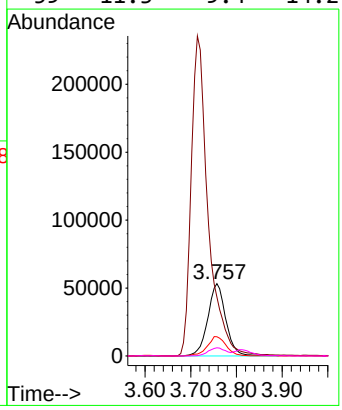


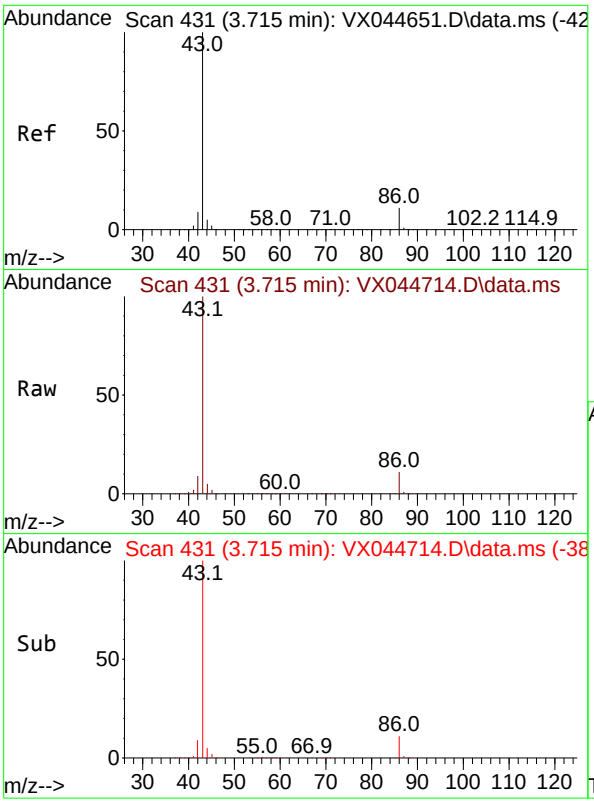




#22
Diisopropyl ether
Concen: 18.916 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 45 Resp: 145799

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 81.0 | 61.0 | 91.6 |
| 87 | 26.6 | 22.7 | 34.1 |
| 59 | 11.3 | 9.4 | 14.2 |



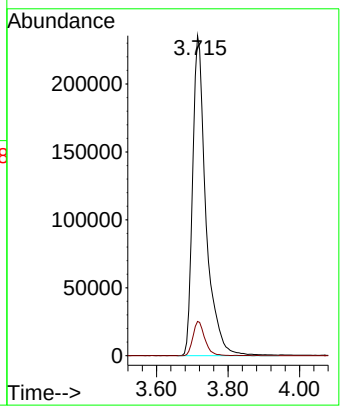


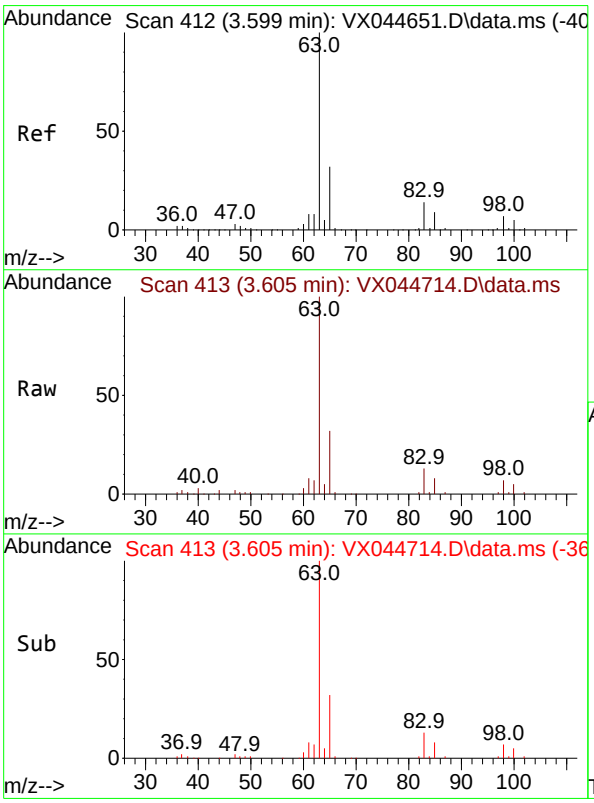

#23
Vinyl Acetate
Concen: 90.524 ug/l
RT: 3.715 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 43 Resp: 610713

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.7 | 8.9 | 13.3 |

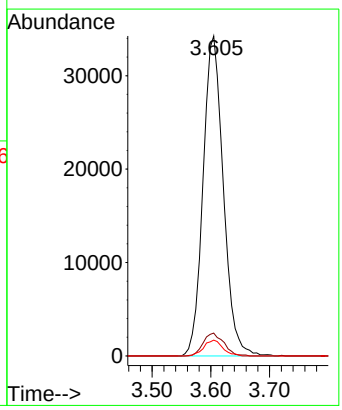


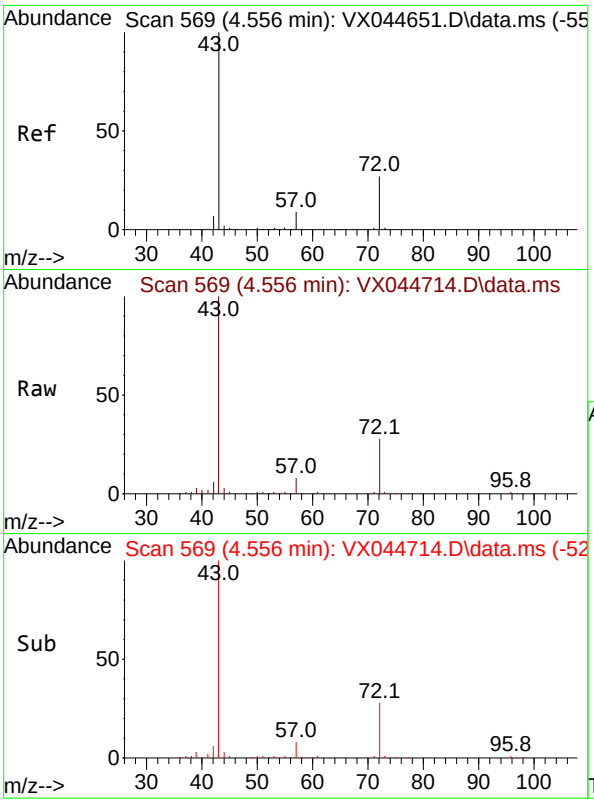




#24
1,1-Dichloroethane
Concen: 17.974 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 63 Resp: 82157

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.1 | 3.6 | 10.9 |
| 100 | 4.9 | 2.5 | 7.5 |



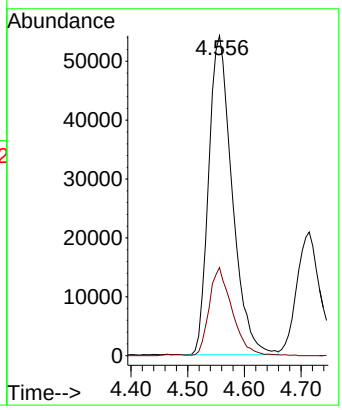


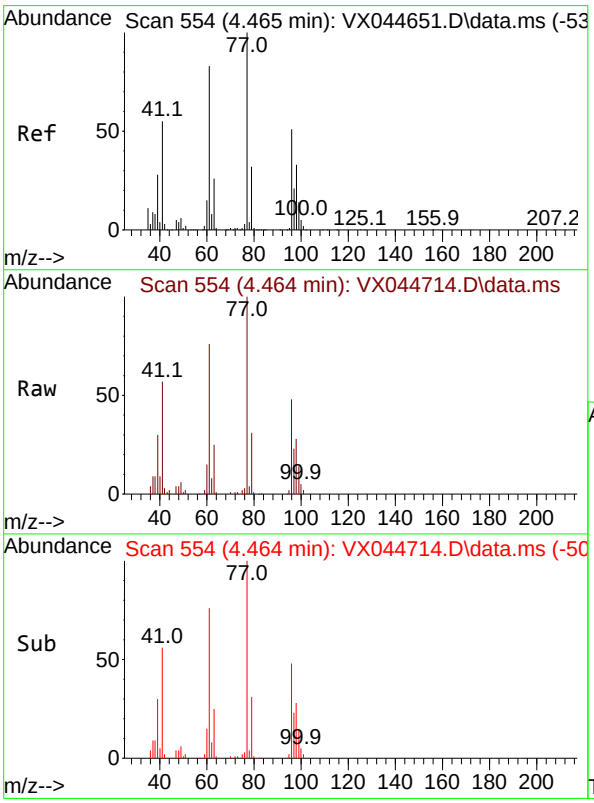

#25
2-Butanone
Concen: 90.078 ug/l
RT: 4.556 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 43 Resp: 155565

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.4 | 21.7 | 32.5 |

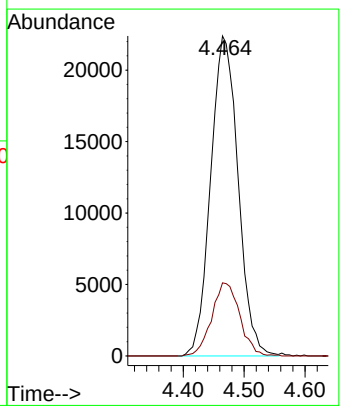


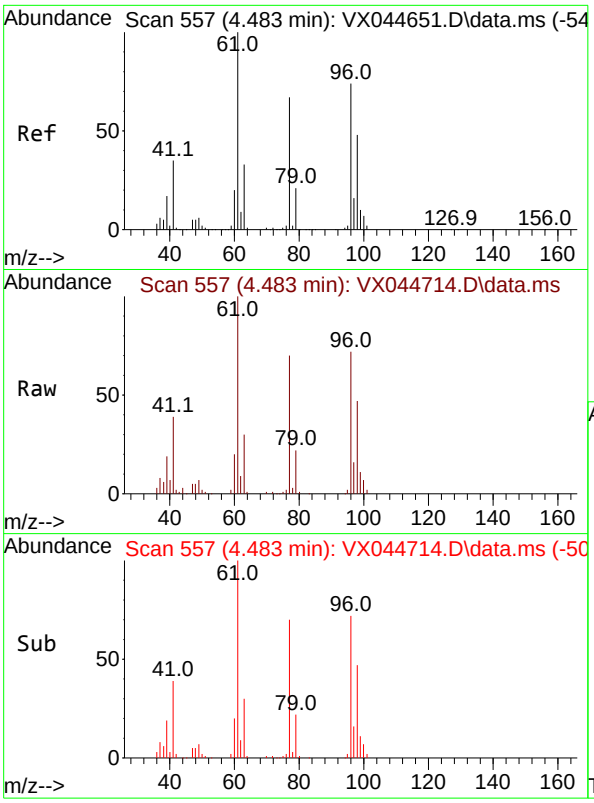




#26
2,2-Dichloropropane
Concen: 15.804 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 77 Resp: 70010

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 23.4 | 10.9 | 32.6 |



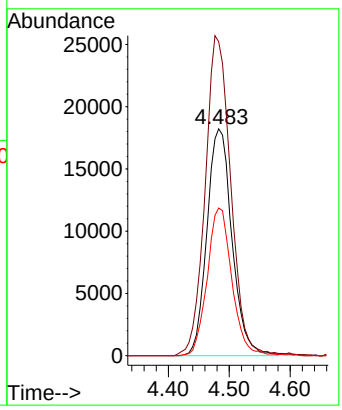


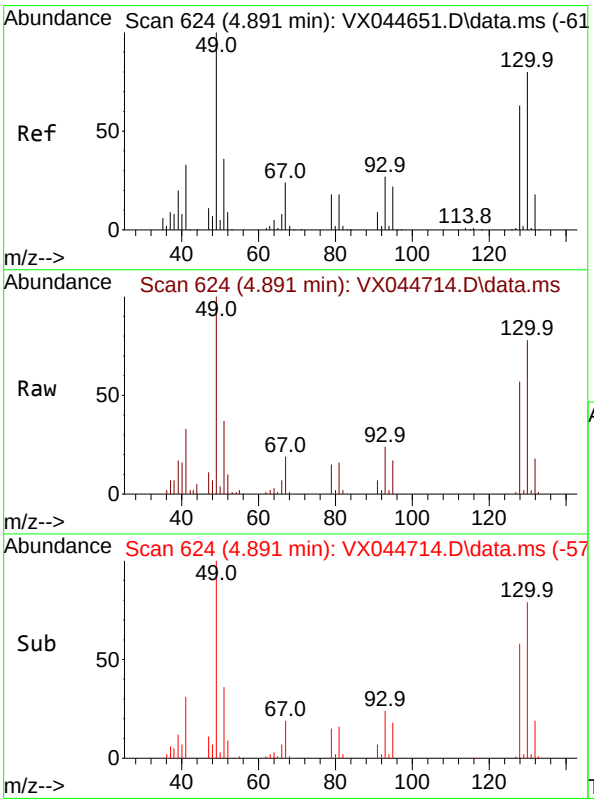

#27
cis-1,2-Dichloroethene
Concen: 17.390 ug/l
RT: 4.483 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 96 Resp: 52012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.6 | 0.0 | 296.0 |
| 98 | 64.3 | 0.0 | 130.0 |

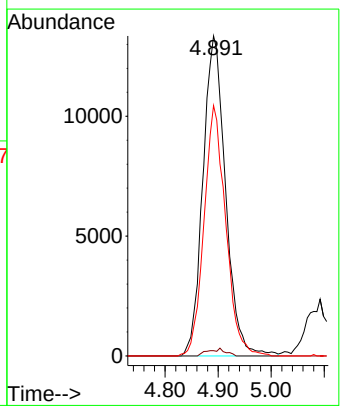


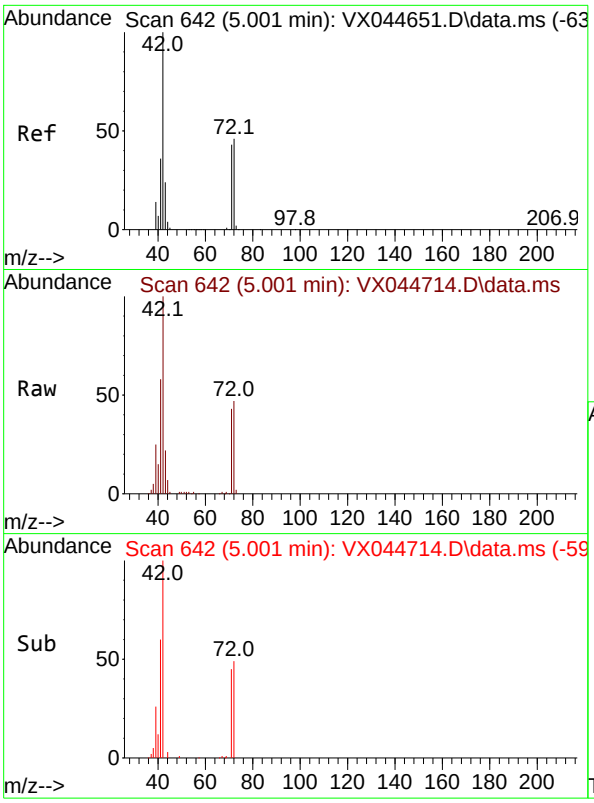




#28
Bromochloromethane
Concen: 18.575 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 49 Resp: 39674

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.4 |
| 130 | 74.9 | 63.4 | 95.2 |



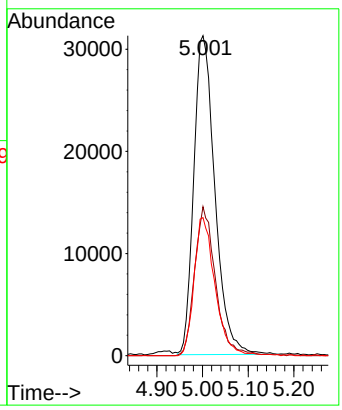


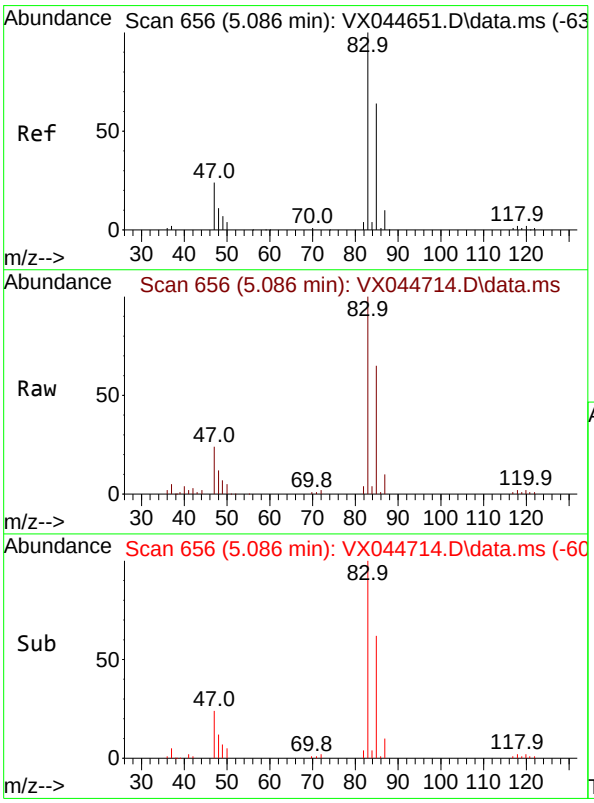

#29
Tetrahydrofuran
Concen: 90.213 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 42 Resp: 100494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.0 | 38.2 | 57.4 |
| 71 | 42.8 | 35.3 | 52.9 |

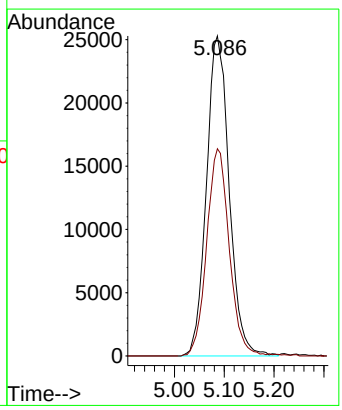


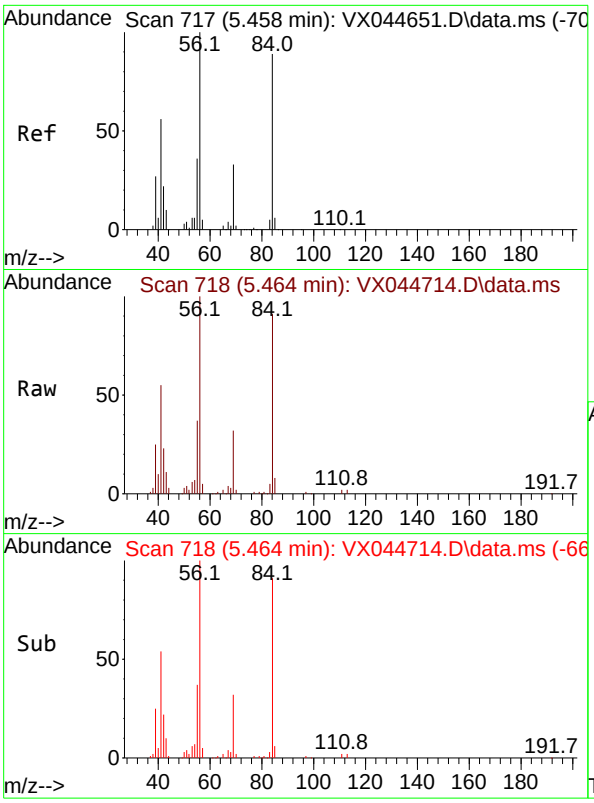




#30
Chloroform
Concen: 17.339 ug/l
RT: 5.086 min Scan# 656
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 83 Resp: 79982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 64.8 | 51.2 | 76.8 |



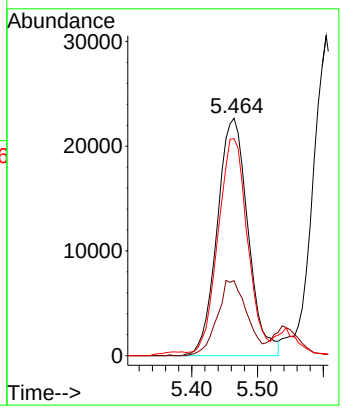


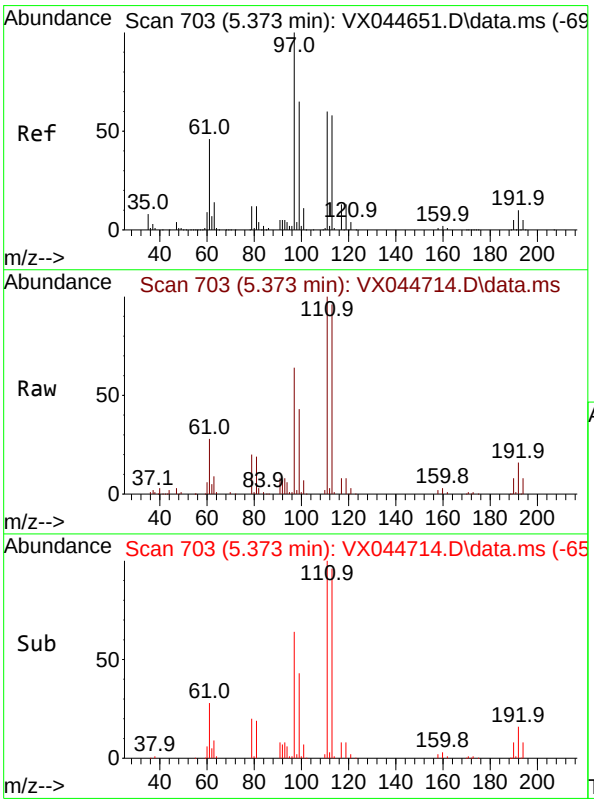

#31
Cyclohexane
Concen: 20.018 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 56 Resp: 74004

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 31.6 | 26.8 | 40.2 |
| 84 | 89.8 | 71.0 | 106.4 |

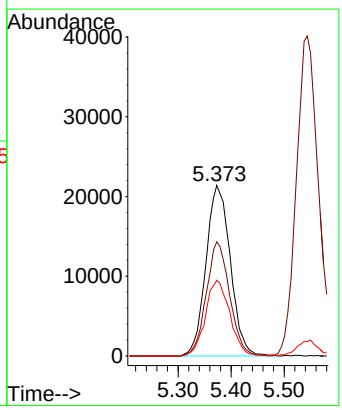


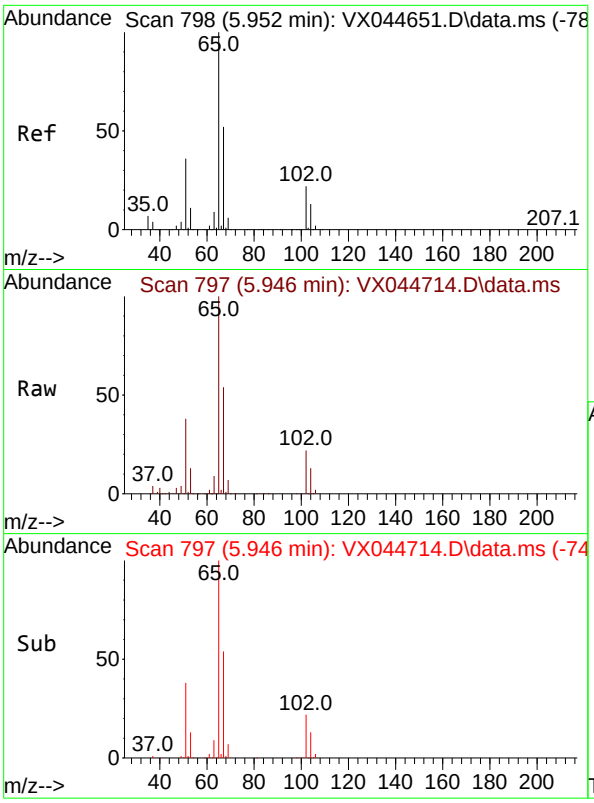




#32
1,1,1-Trichloroethane
Concen: 16.122 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 97 Resp: 68369

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 63.9 | 51.6 | 77.4 |
| 61 | 44.4 | 35.6 | 53.4 |



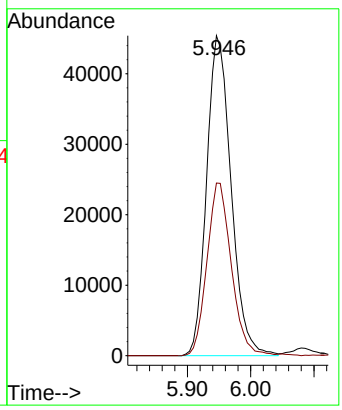


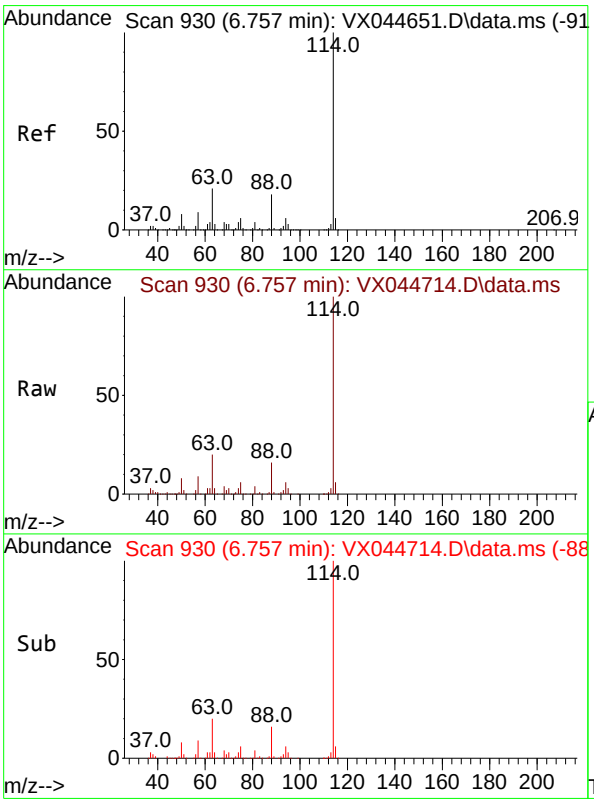

#33
1,2-Dichloroethane-d4
Concen: 41.574 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 65 Resp: 122056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 53.7 | 0.0 | 103.4 |

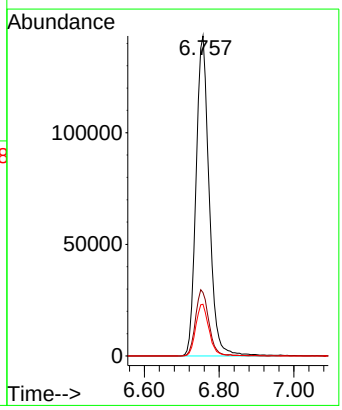


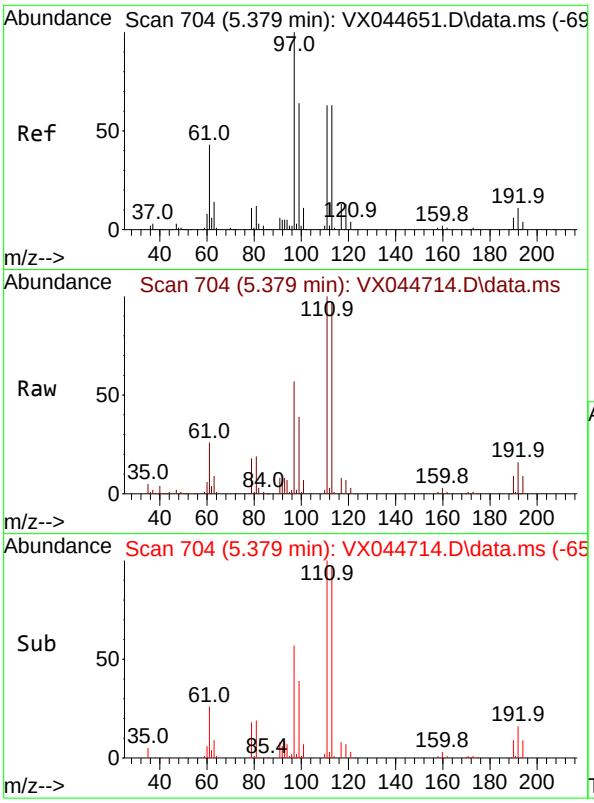




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:114 Resp: 349402

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 19.8 | 0.0 | 43.0 |
| 88 | 16.2 | 0.0 | 35.4 |



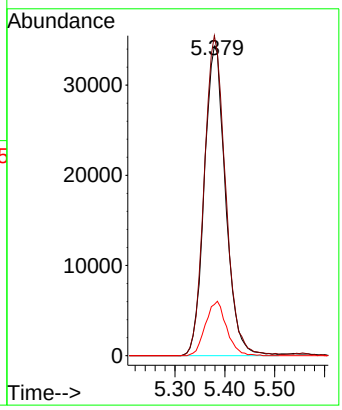


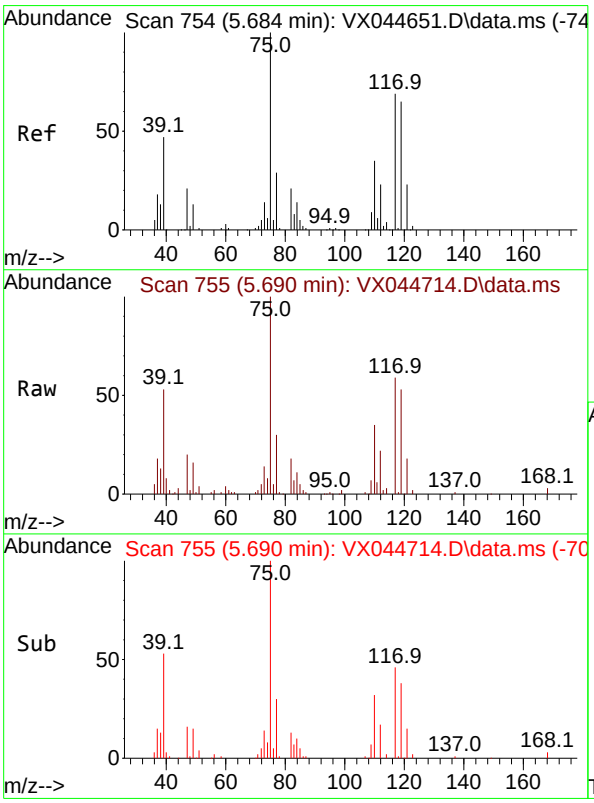

#35
Dibromofluoromethane
Concen: 45.811 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:113 Resp: 101687

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 103.5 | 81.6 | 122.4 |
| 192 | 17.4 | 14.4 | 21.6 |

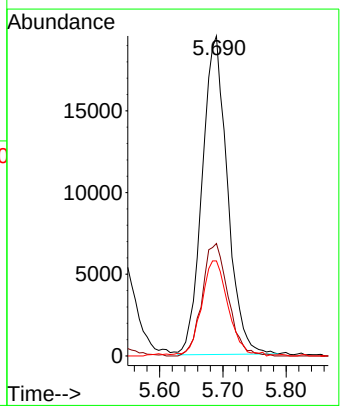


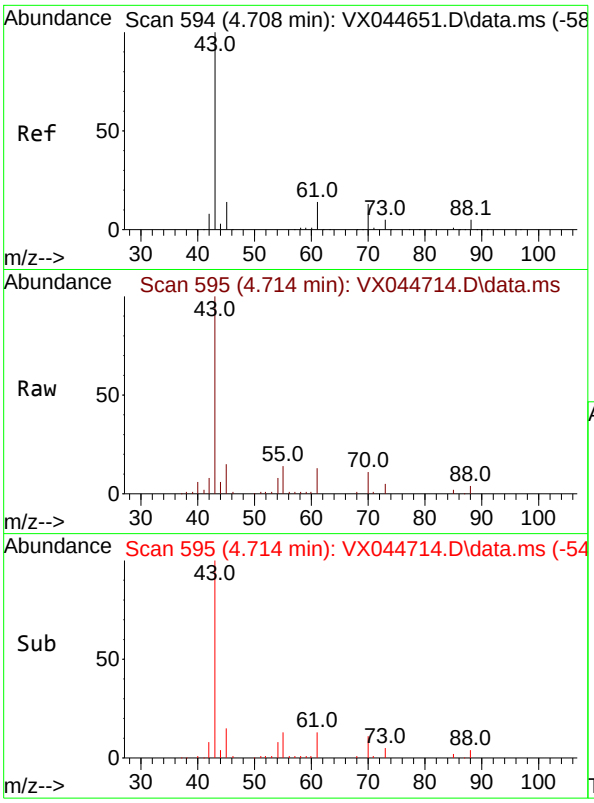




#36
1,1-Dichloropropene
Concen: 17.510 ug/l
RT: 5.690 min Scan# 755
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 75 Resp: 54103

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 36.5 | 17.9 | 53.8 |
| 77 | 31.0 | 24.5 | 36.7 |



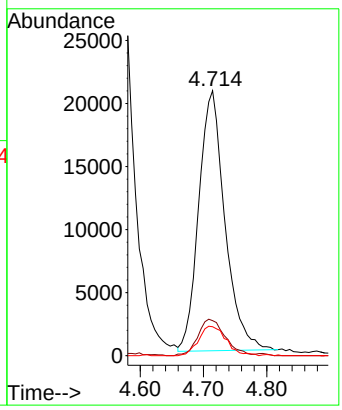


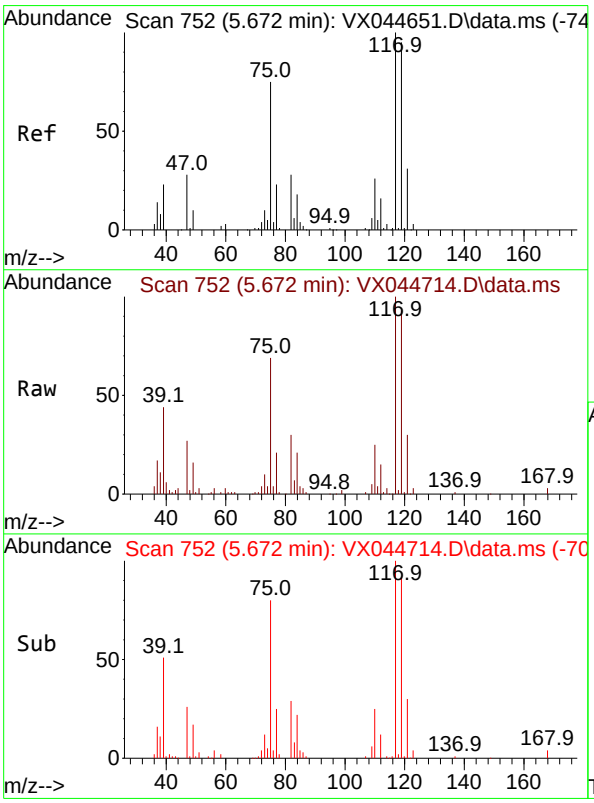

#37
Ethyl Acetate
Concen: 18.069 ug/l
RT: 4.714 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 43 Resp: 59455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.6 | 10.9 | 16.3 |
| 70 | 11.9 | 10.1 | 15.1 |

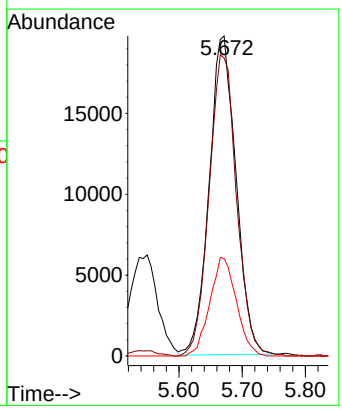


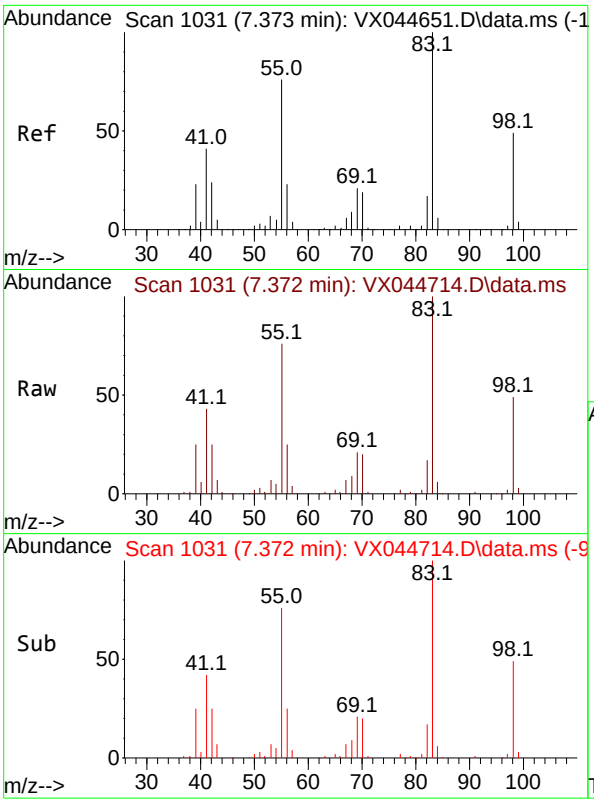




#38
Carbon Tetrachloride
Concen: 16.744 ug/l
RT: 5.672 min Scan# 752
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:117 Resp: 58196

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 93.6 | 76.0 | 114.0 |
| 121 | 30.6 | 24.6 | 36.8 |



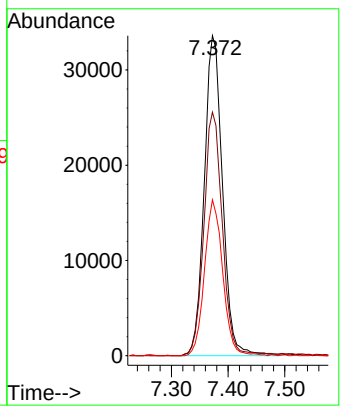


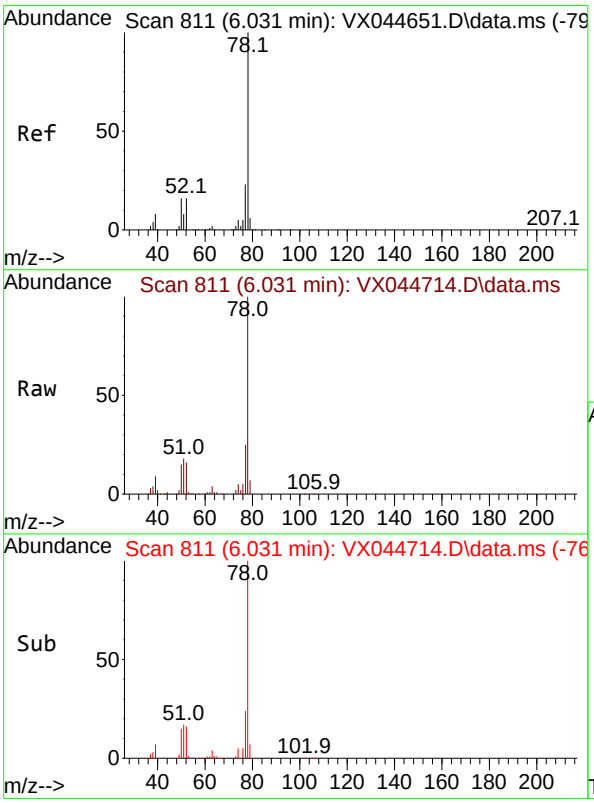

#39
Methylcyclohexane
Concen: 18.324 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 83 Resp: 75160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 76.1 | 60.5 | 90.7 |
| 98 | 48.7 | 39.0 | 58.4 |

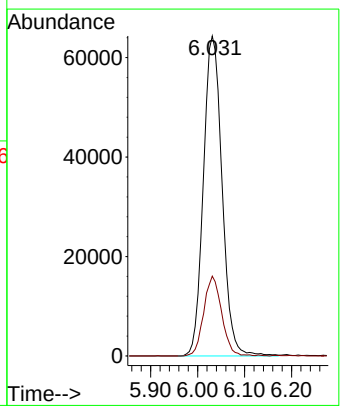


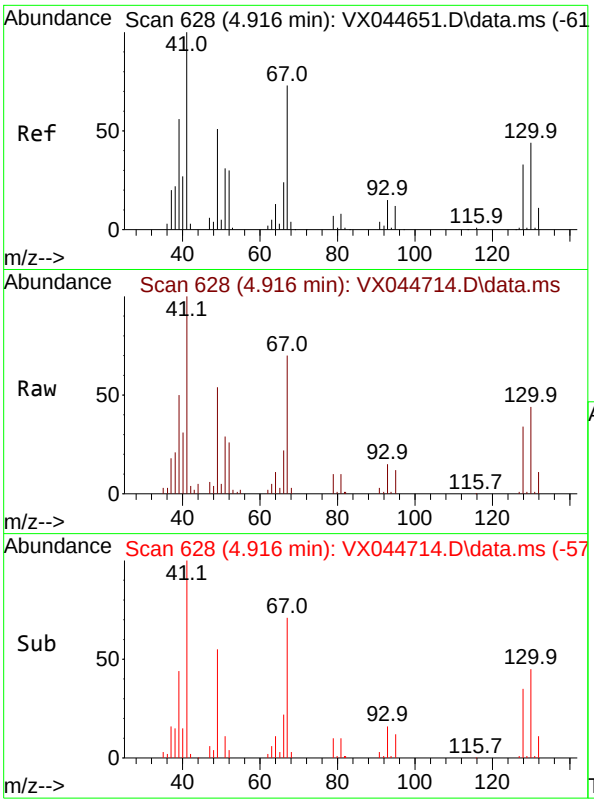




#40
Benzene
Concen: 18.544 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 78 Resp: 177558

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 25.0 | 18.7 | 28.1 |



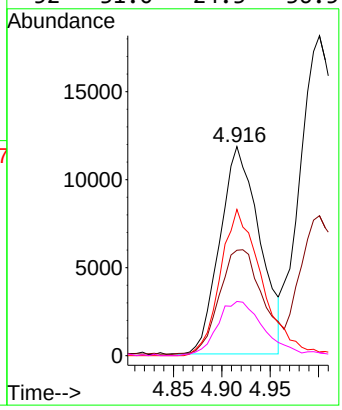


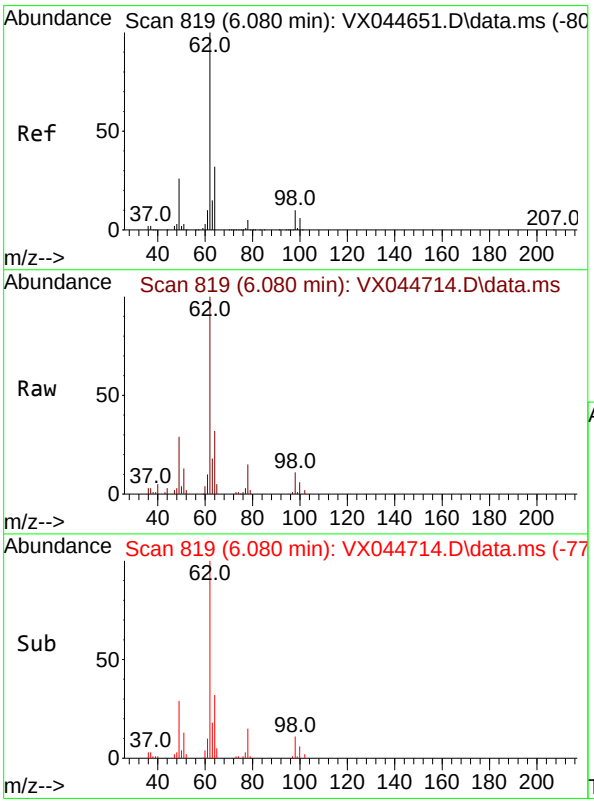

#41
Methacrylonitrile
Concen: 17.612 ug/l
RT: 4.916 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 41 Resp: 33769

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.4 | 44.4 | 66.6 |
| 67 | 74.5 | 60.6 | 90.8 |
| 52 | 31.0 | 24.3 | 36.5 |

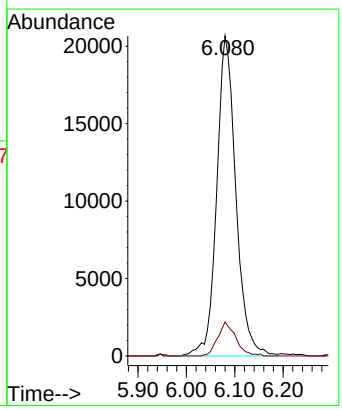


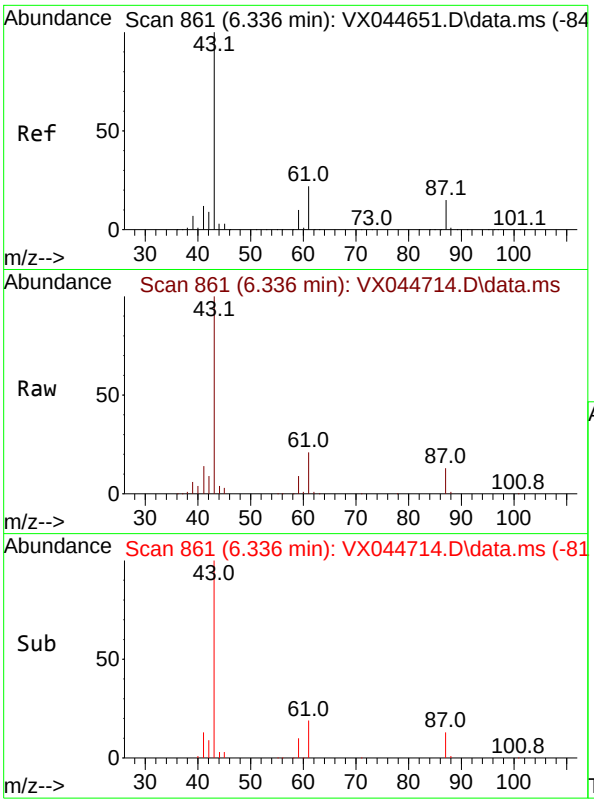




#42
1,2-Dichloroethane
Concen: 16.294 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 62 Resp: 56940

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 10.0 | 0.0 | 19.4 |



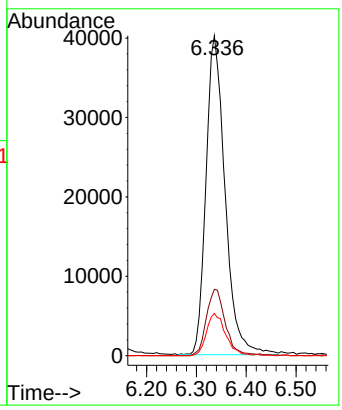


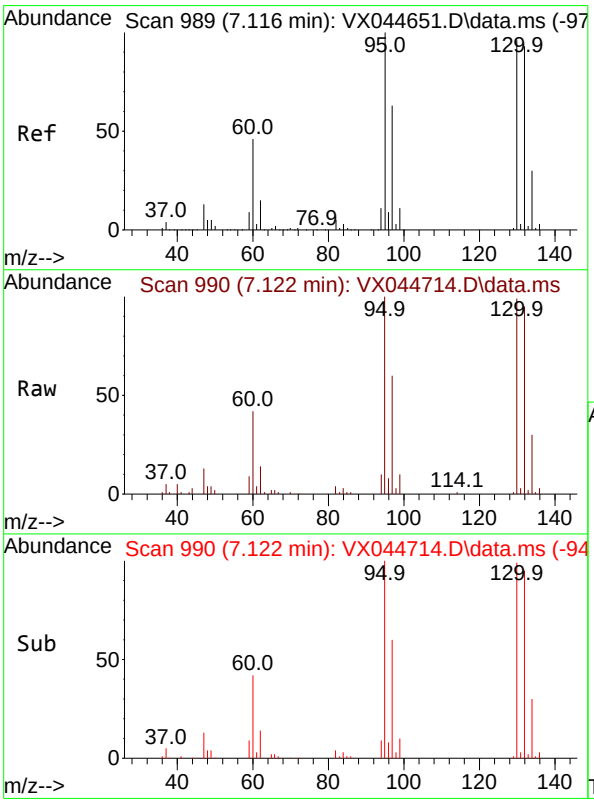

#43
Isopropyl Acetate
Concen: 17.670 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 43 Resp: 106960

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 20.9 | 16.6 | 24.8 |
| 87 | 13.2 | 11.0 | 16.6 |

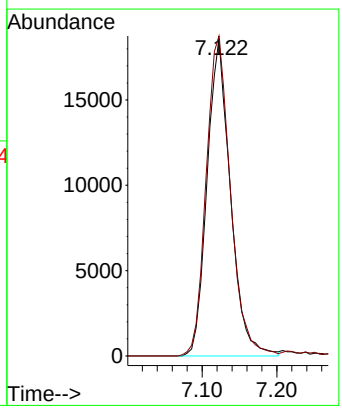


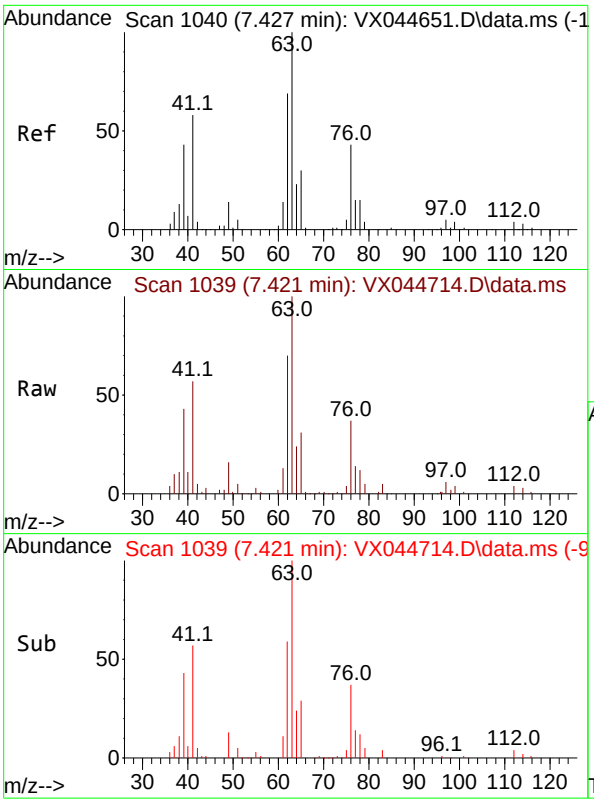




#44
Trichloroethene
Concen: 17.501 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:130 Resp: 40285

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 100.8 | 0.0 | 208.2 |



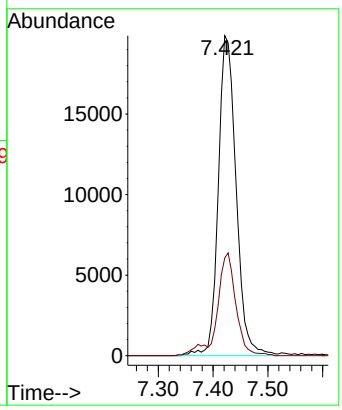


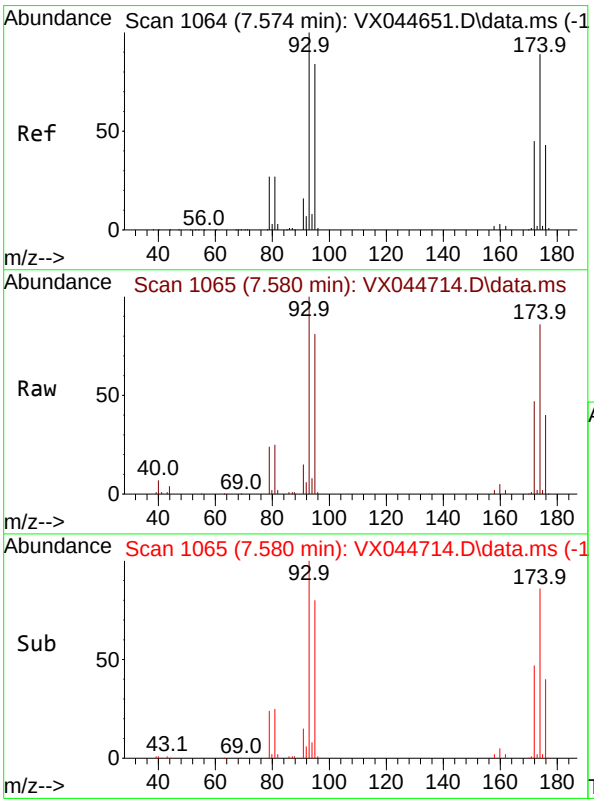

#45
1,2-Dichloropropane
Concen: 18.632 ug/l
RT: 7.421 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 63 Resp: 44906

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 30.6 | 24.2 | 36.2 |

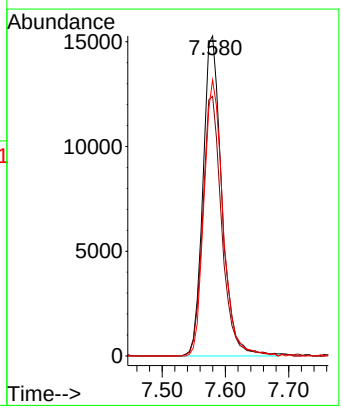


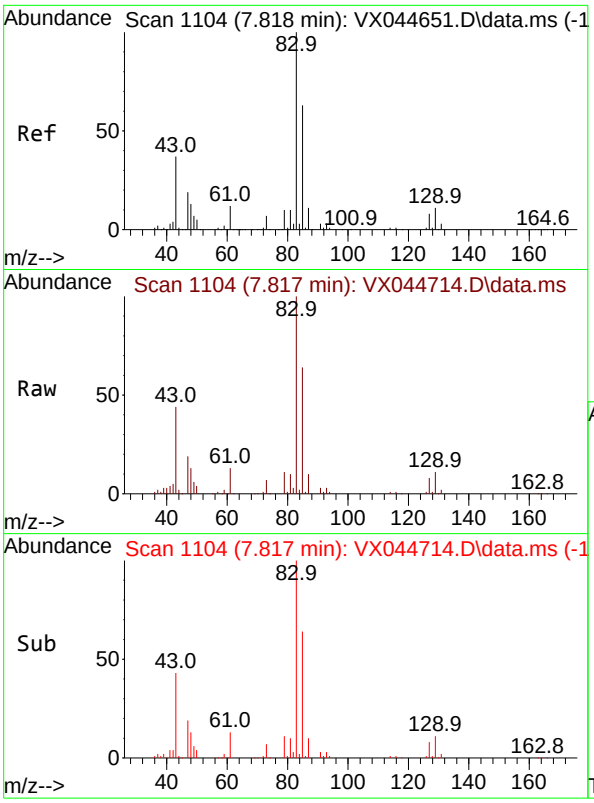




#46
Dibromomethane
Concen: 17.306 ug/l
RT: 7.580 min Scan# 1065
Delta R.T. 0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 93 Resp: 31751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.1 | 66.4 | 99.6 |
| 174 | 86.9 | 72.0 | 108.0 |



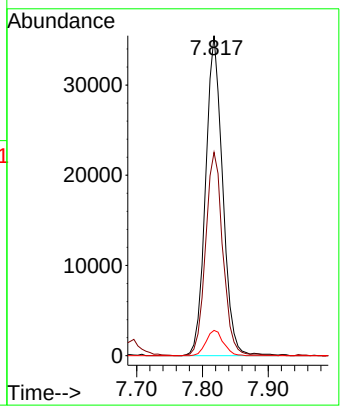


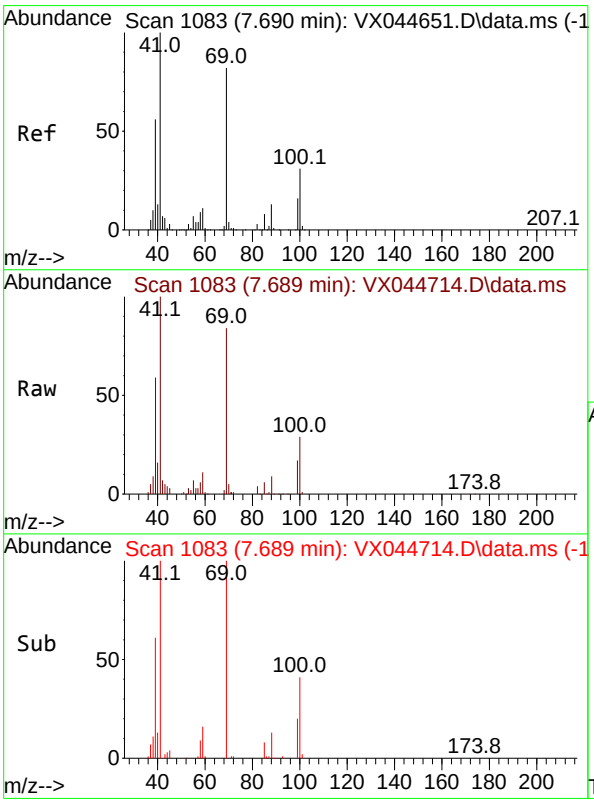

#47
Bromodichloromethane
Concen: 17.015 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 83 Resp: 64021

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.6 | 50.1 | 75.1 |
| 127 | 7.9 | 6.5 | 9.7 |

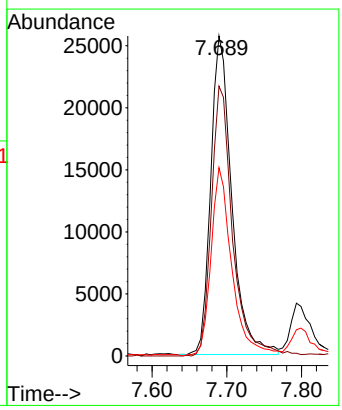


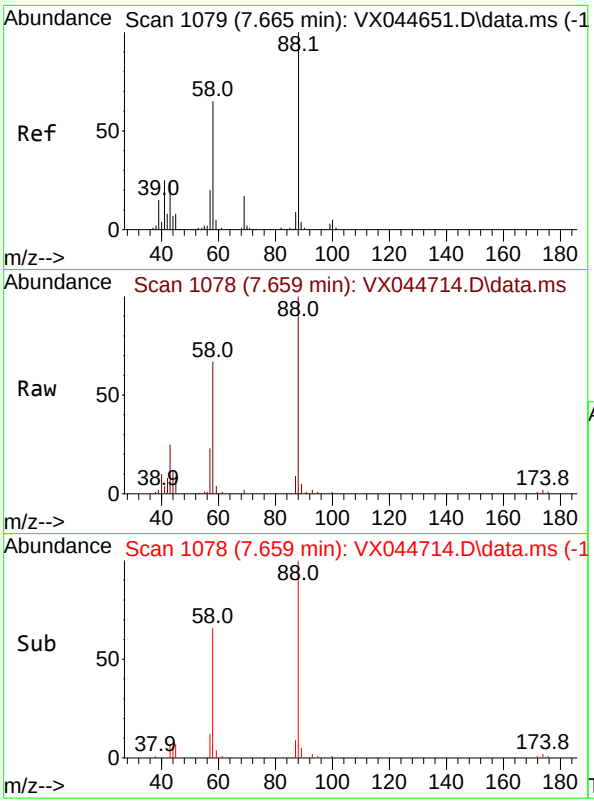




#48
Methyl methacrylate
Concen: 17.957 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 41 Resp: 50455

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 85.4 | 66.8 | 100.2 |
| 39 | 58.3 | 47.4 | 71.0 |



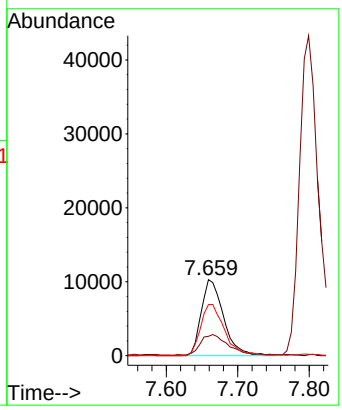


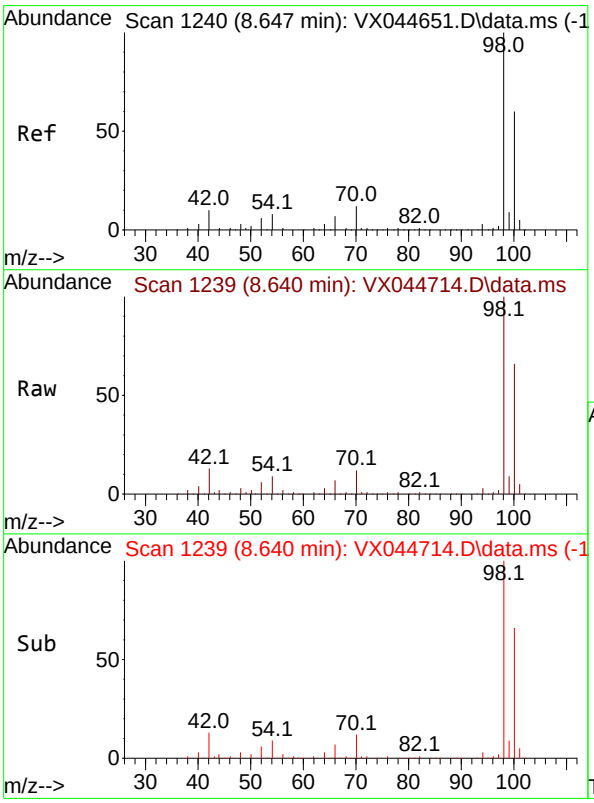

#49
1,4-Dioxane
Concen: 381.373 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 88 Resp: 22357

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.9 | 27.0 | 40.4 |
| 58 | 71.3 | 55.8 | 83.8 |

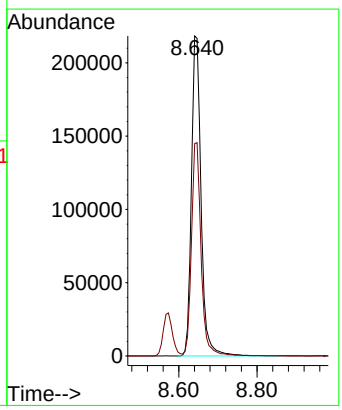


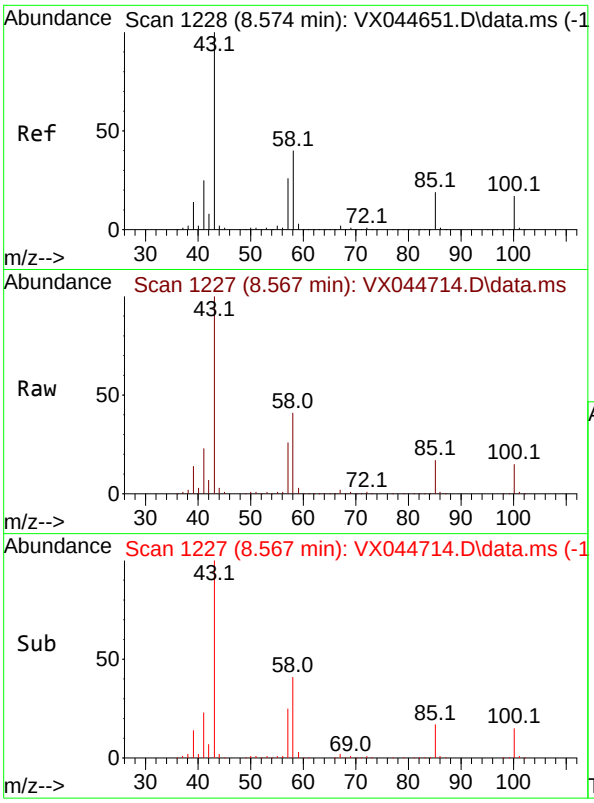




#50
Toluene-d8
Concen: 48.375 ug/l
RT: 8.640 min Scan# 1239
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 98 Resp: 374408

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.4 | 53.2 | 79.8 |



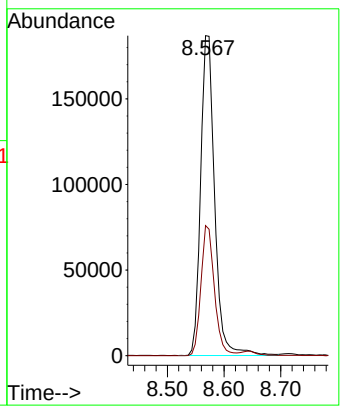


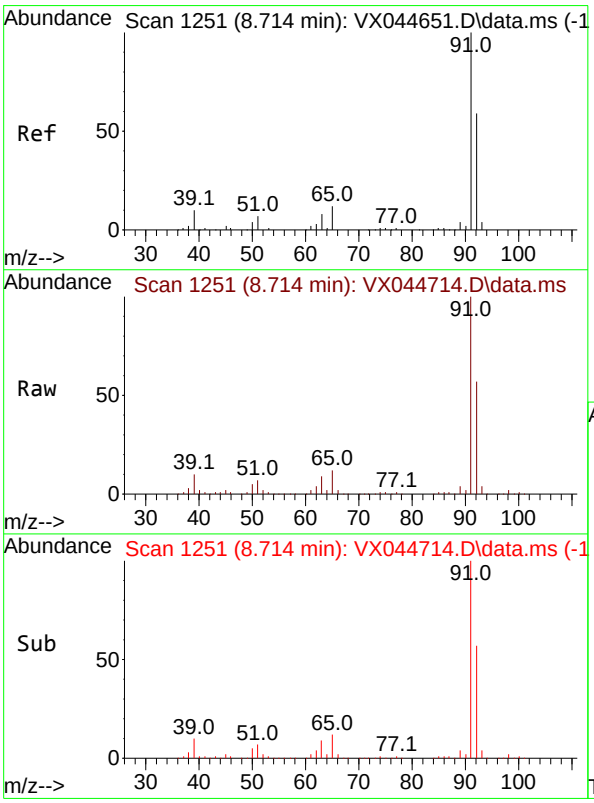

#51
4-Methyl-2-Pentanone
Concen: 95.928 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 43 Resp: 320897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.1 | 31.9 | 47.9 |

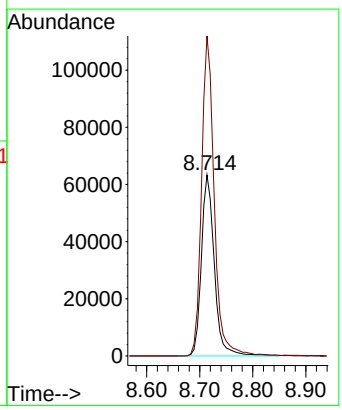


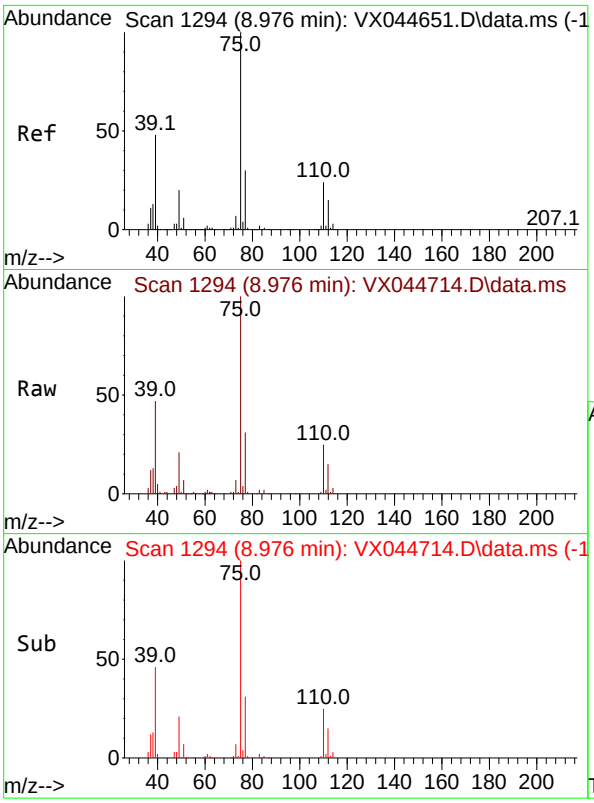




#52
Toluene
Concen: 18.310 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 92 Resp: 107306

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 173.3 | 135.7 | 203.5 |



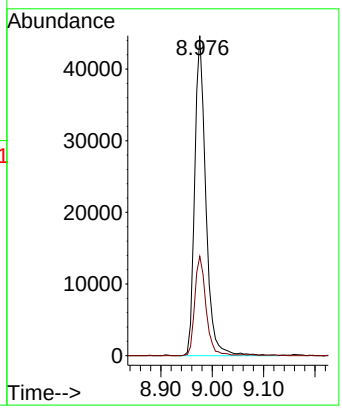


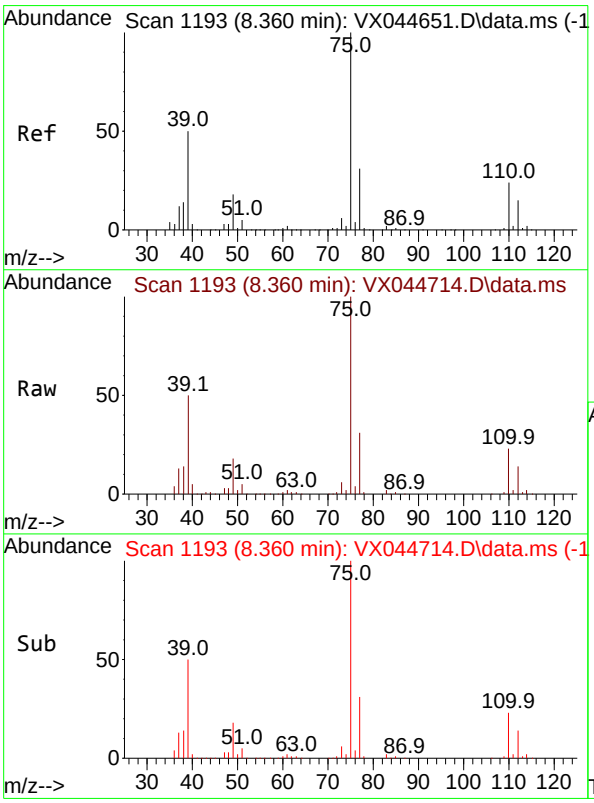

#53
t-1,3-Dichloropropene
Concen: 17.231 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 75 Resp: 66983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 31.1 | 24.4 | 36.6 |

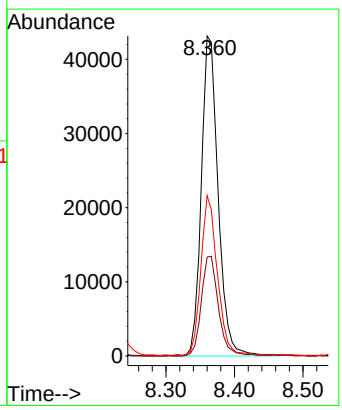


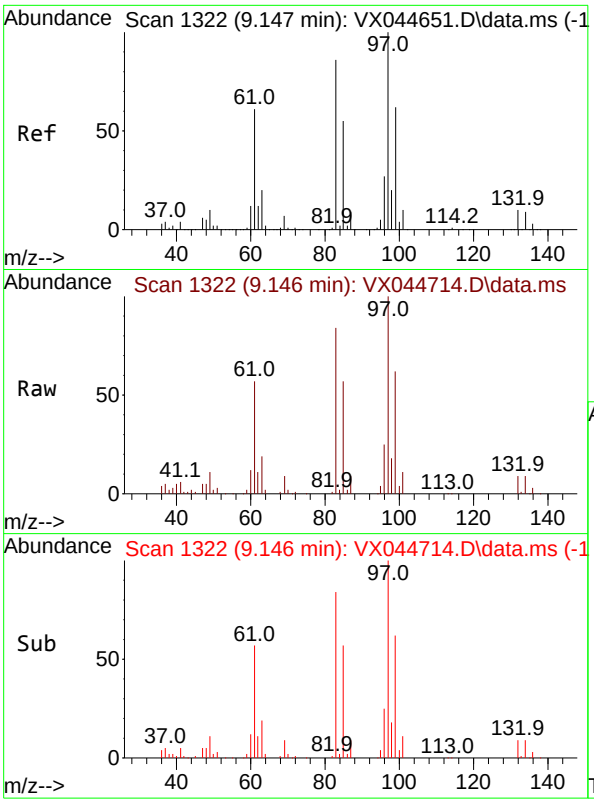




#54
cis-1,3-Dichloropropene
Concen: 17.484 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 75 Resp: 73698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.9 | 25.1 | 37.7 |
| 39 | 49.7 | 40.3 | 60.5 |



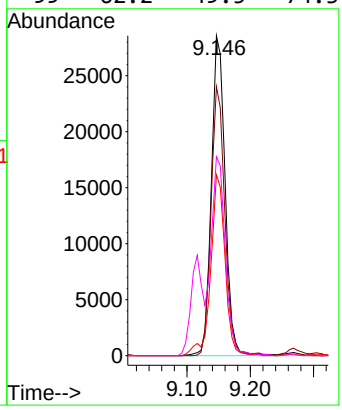


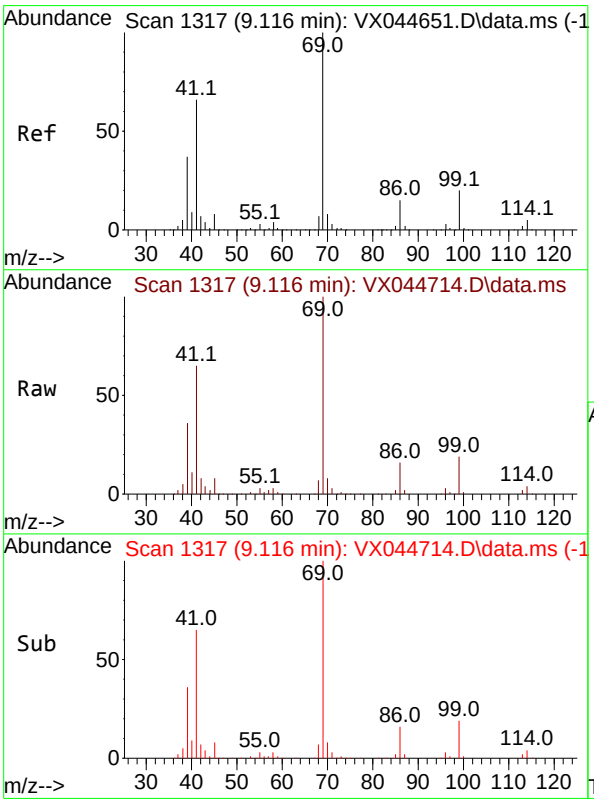

#55
1,1,2-Trichloroethane
Concen: 18.277 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 97 Resp: 43335

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 84.1 | 68.8 | 103.2 |
| 85 | 56.5 | 43.7 | 65.5 |
| 99 | 62.2 | 49.5 | 74.3 |

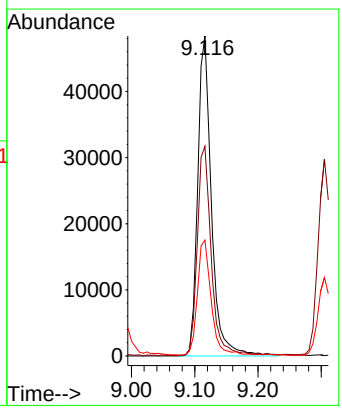


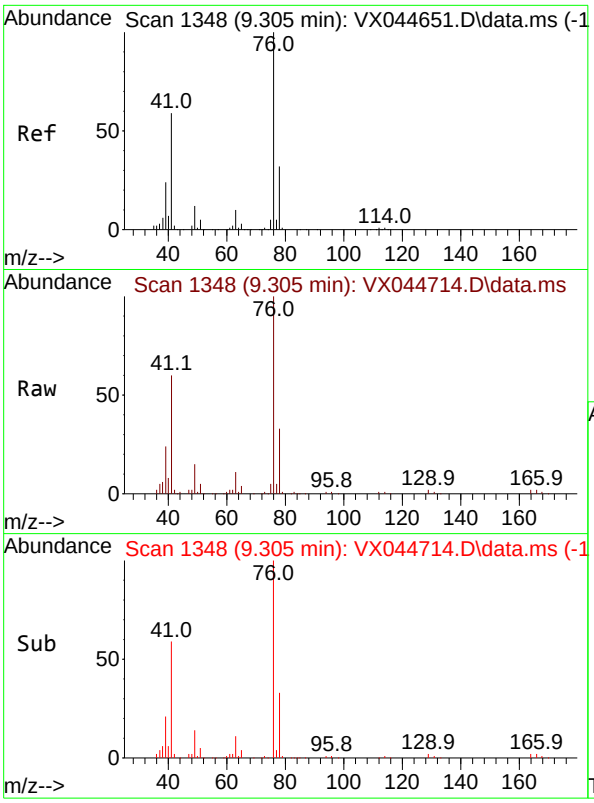




#56
Ethyl methacrylate
Concen: 17.970 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 69 Resp: 73260

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.6 | 53.2 | 79.8 |
| 39 | 35.9 | 30.2 | 45.2 |



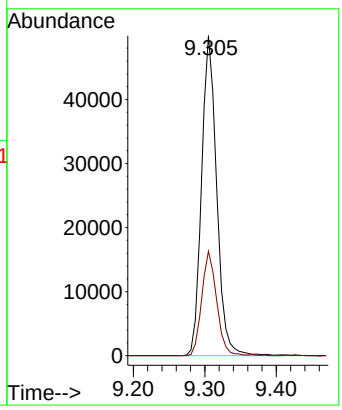


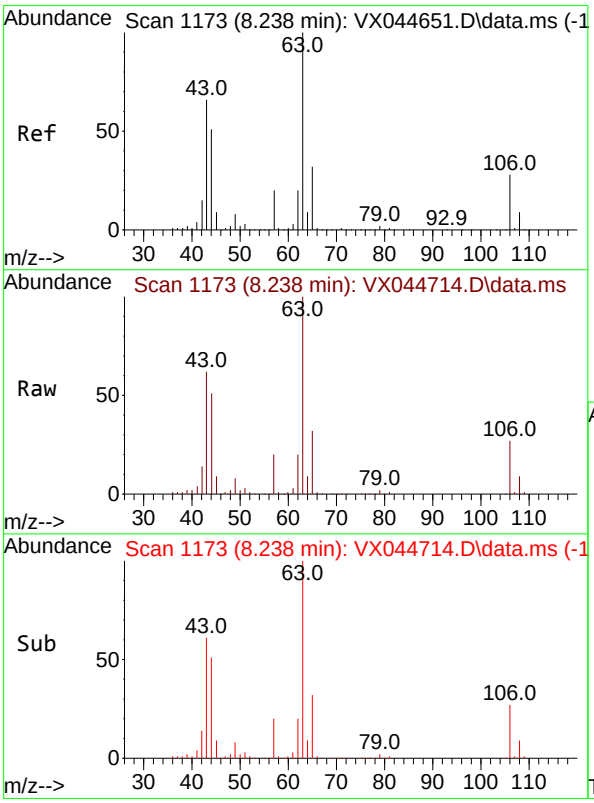

#57
1,3-Dichloropropane
Concen: 18.173 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 76 Resp: 73374

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.2 | 26.0 | 39.0 |

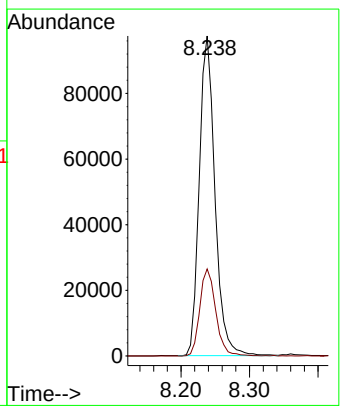


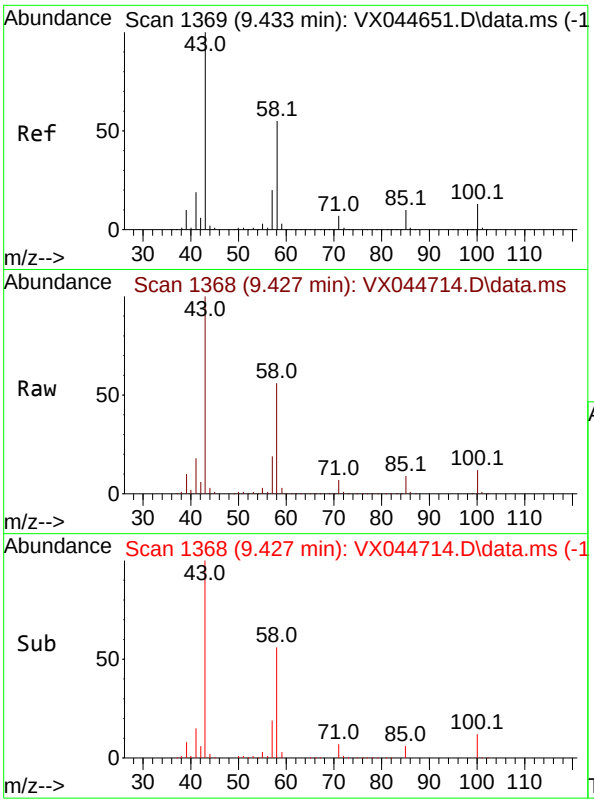




#58
2-Chloroethyl Vinyl ether
Concen: 77.714 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 63 Resp: 155542

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.6 | 23.0 | 34.6 |



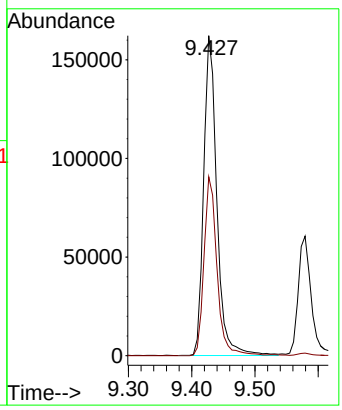


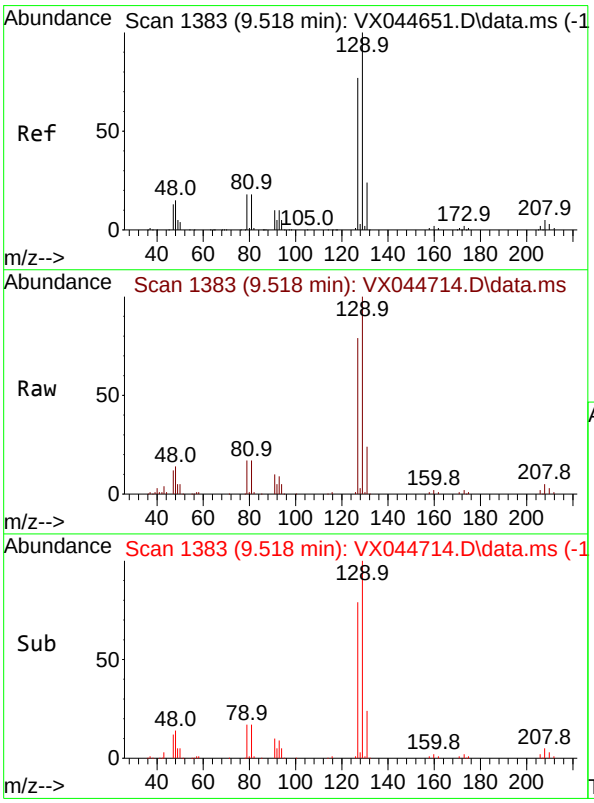

#59
2-Hexanone
Concen: 95.563 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 43 Resp: 235185

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.3 | 27.8 | 83.3 |

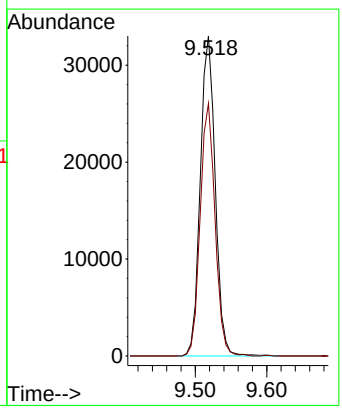


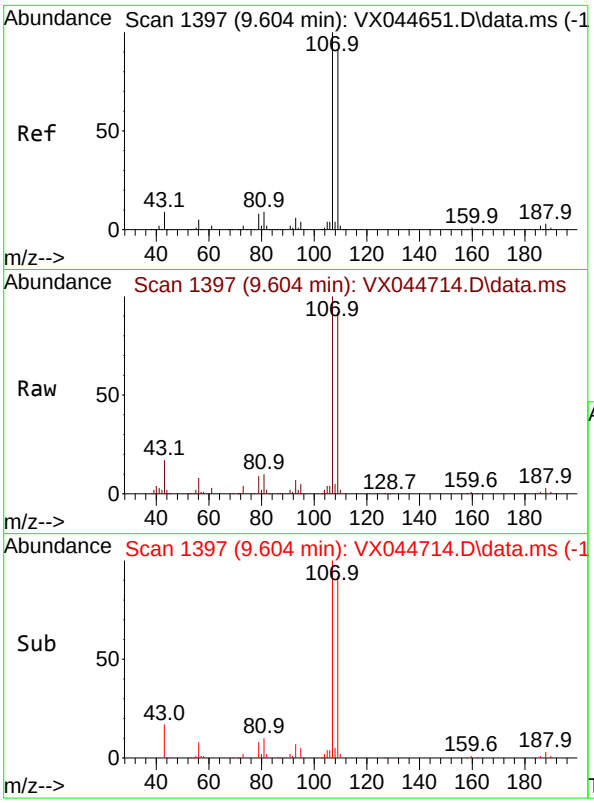




#60
Dibromochloromethane
Concen: 17.200 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:129 Resp: 47865

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 78.6 | 38.5 | 115.5 |



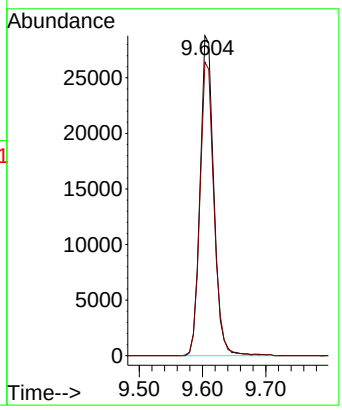


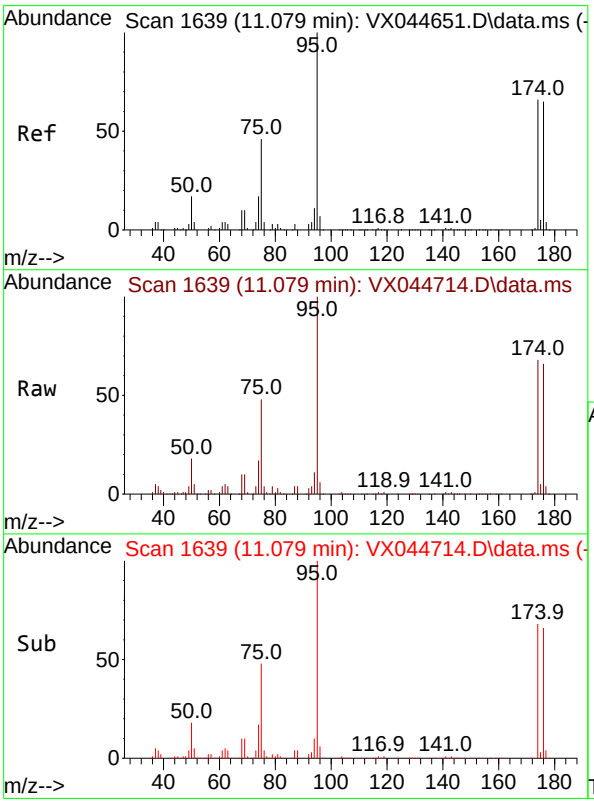

#61
1,2-Dibromoethane
Concen: 17.525 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:107 Resp: 43546

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 93.6 | 75.3 | 112.9 |

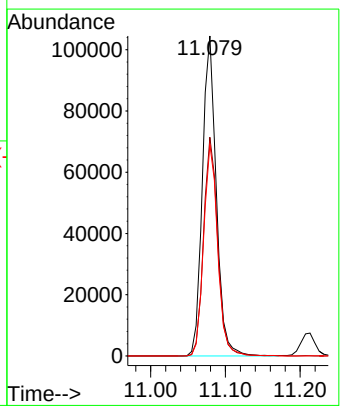


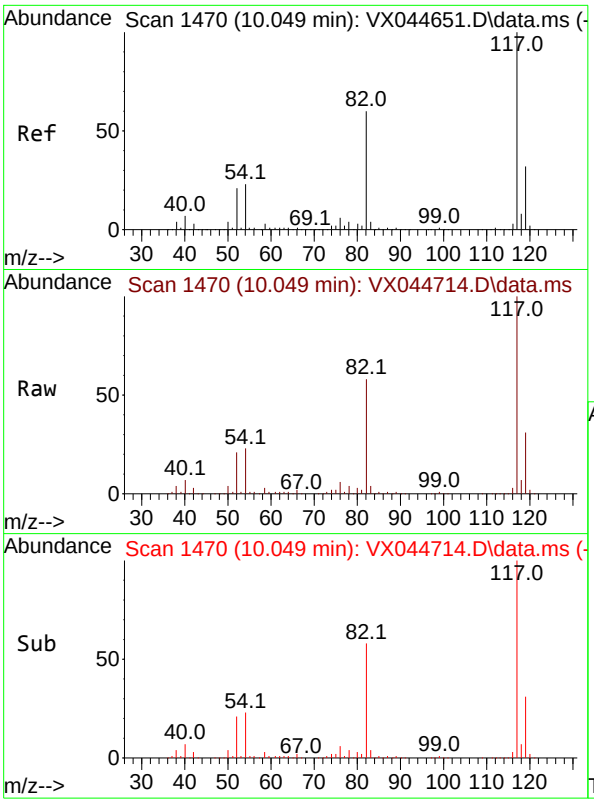




#62
4-Bromofluorobenzene
Concen: 46.759 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 95 Resp: 134911

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 69.5 | 0.0 | 133.0 |
| 176 | 66.7 | 0.0 | 129.4 |



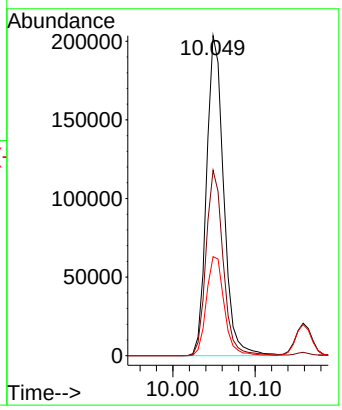


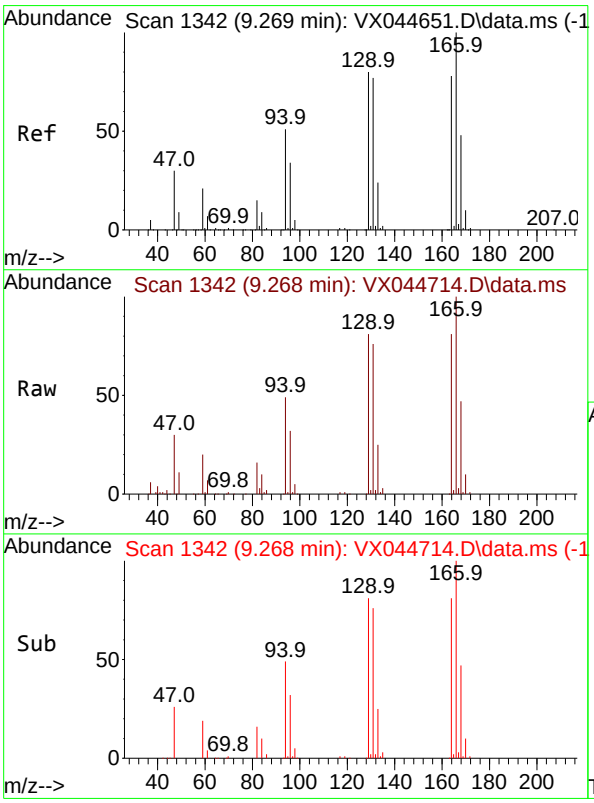

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:117 Resp: 294902

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 57.9 | 47.6 | 71.4 |
| 119 | 31.0 | 25.4 | 38.2 |

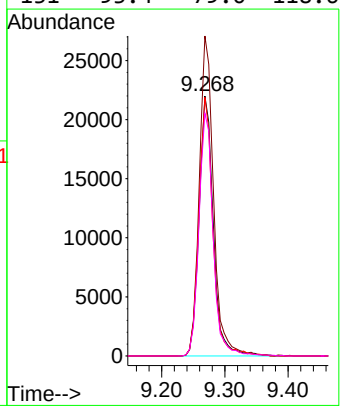


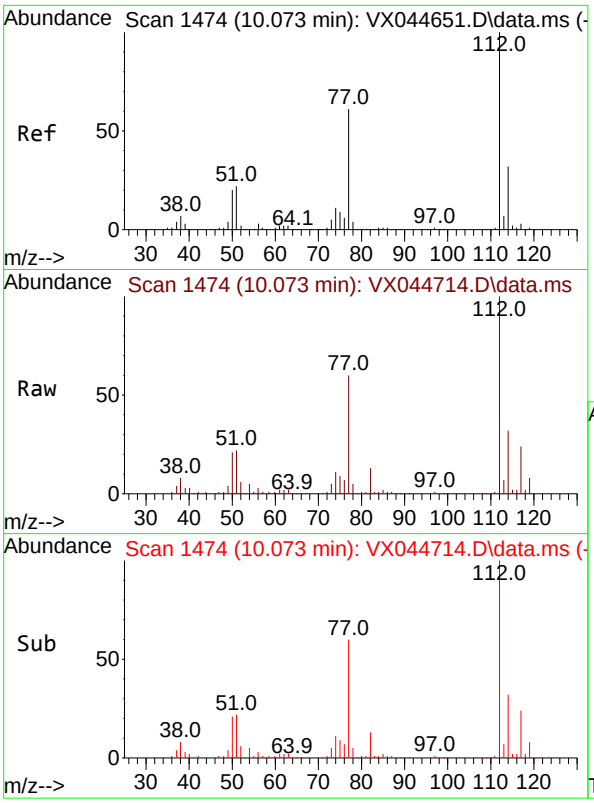




#64
Tetrachloroethene
Concen: 18.686 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:164 Resp: 34603

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 123.1 | 102.0 | 153.0 |
| 129 | 99.5 | 81.1 | 121.7 |
| 131 | 93.4 | 79.0 | 118.6 |



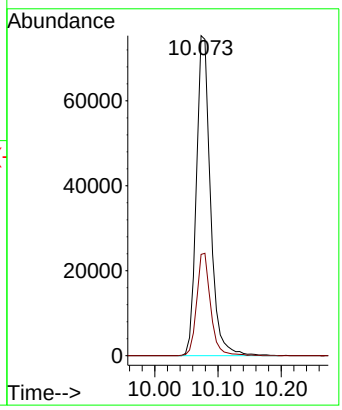


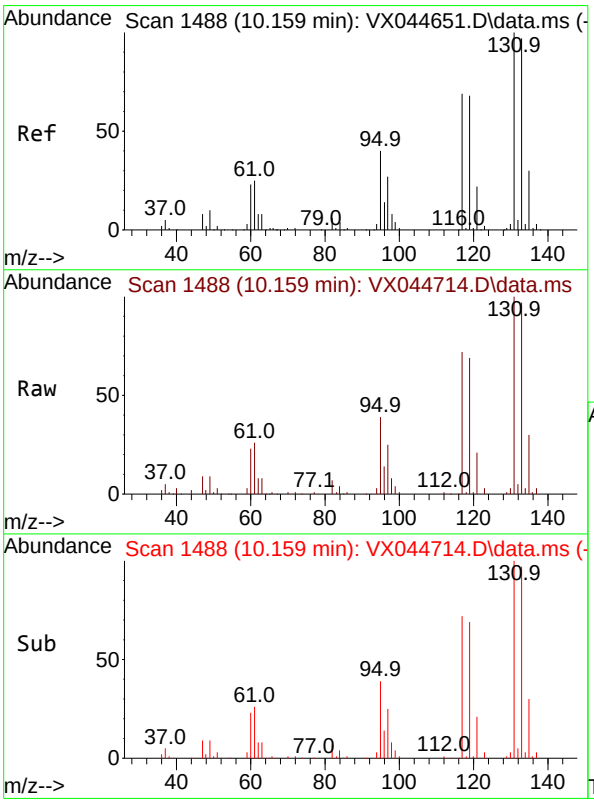

#65
Chlorobenzene
Concen: 18.627 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:112 Resp: 116677

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.7 | 25.3 | 37.9 |

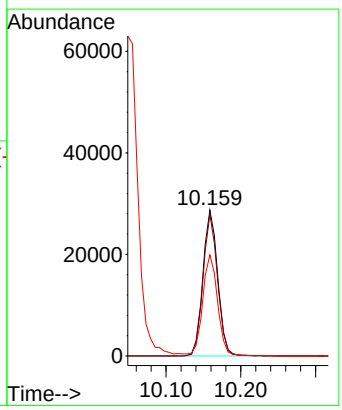


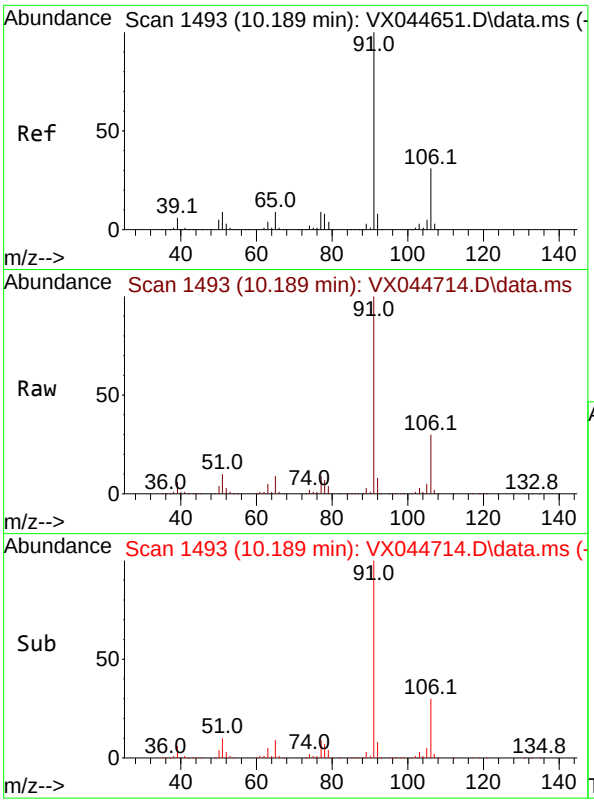




#66
1,1,1,2-Tetrachloroethane
Concen: 17.327 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:131 Resp: 39444

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 95.3 | 47.8 | 143.3 |
| 119 | 69.8 | 33.4 | 100.2 |



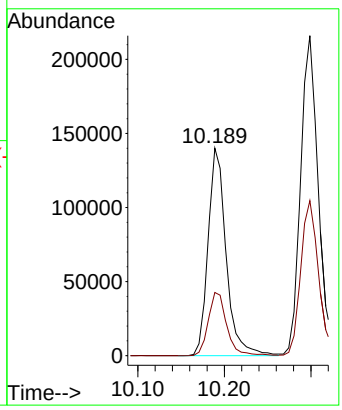


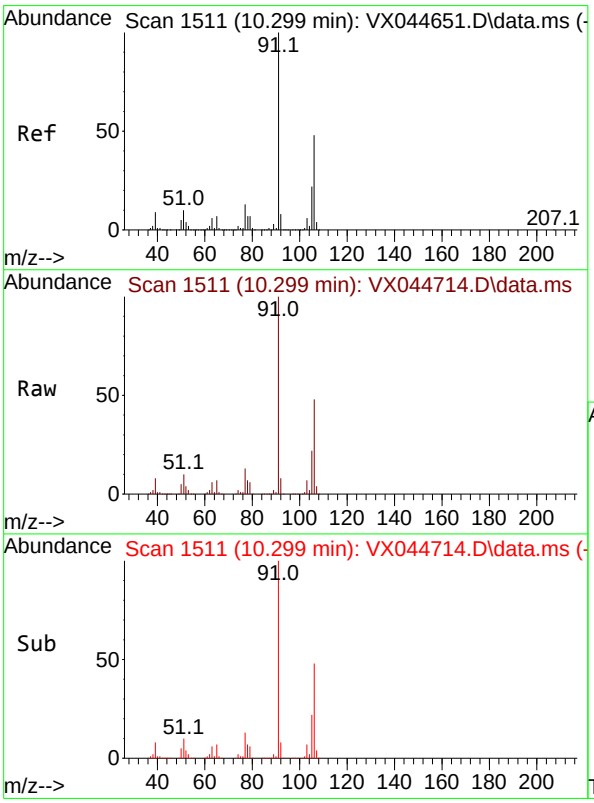

#67
Ethyl Benzene
Concen: 18.619 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 91 Resp: 203496

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.5 | 25.0 | 37.6 |

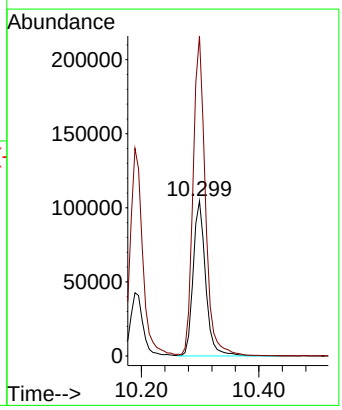


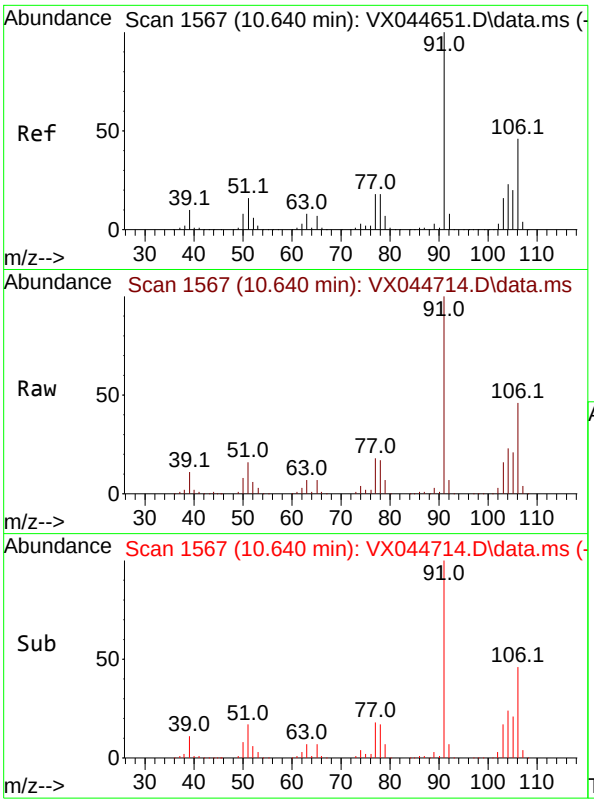




#68
m/p-Xylenes
Concen: 38.048 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:106 Resp: 154315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.0 | 166.4 | 249.6 |



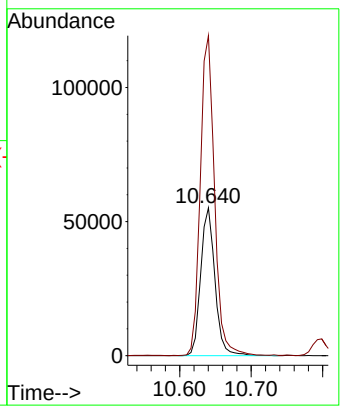


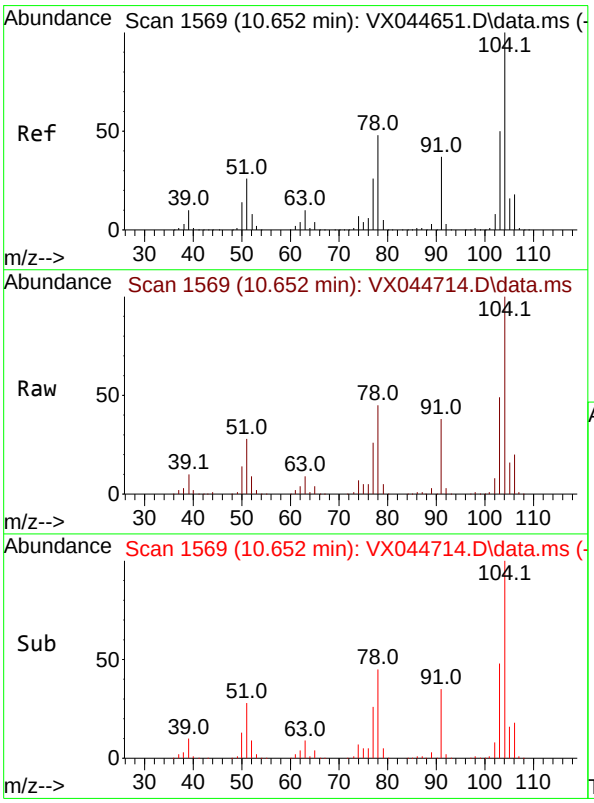

#69
o-Xylene
Concen: 18.584 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:106 Resp: 76225

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.8 | 108.7 | 326.3 |

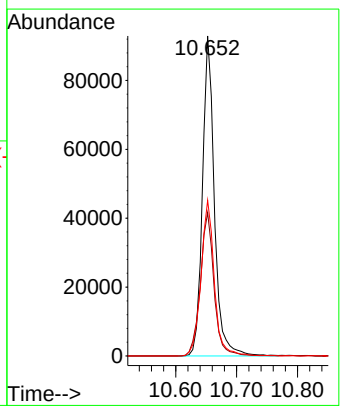


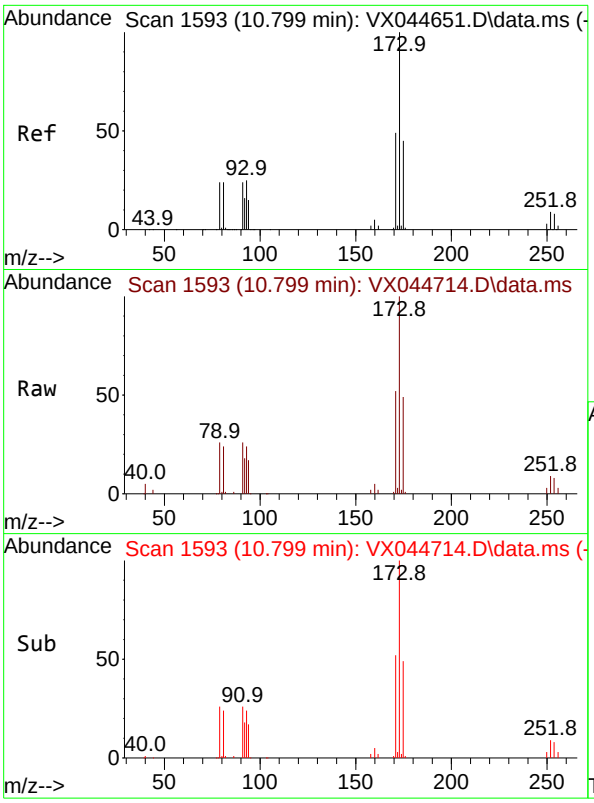




#70
Styrene
Concen: 19.202 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:104 Resp: 127161

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.1 | 43.0 | 64.6 |
| 103 | 54.0 | 43.4 | 65.2 |



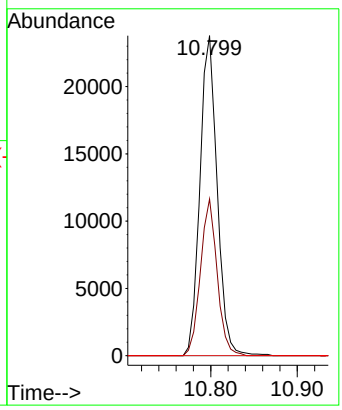


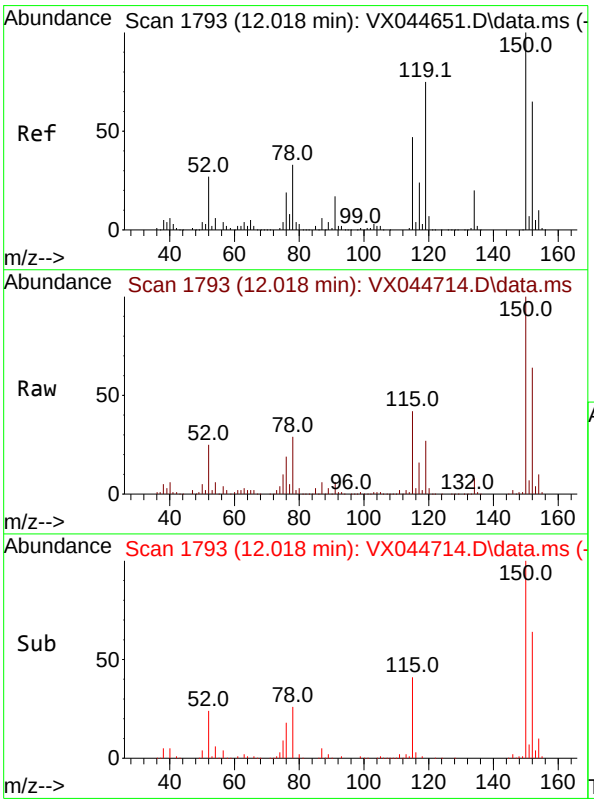

#71
Bromoform
Concen: 17.735 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:173 Resp: 32859

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 47.4 | 23.6 | 70.8 |
| 254 | 0.0 | 0.1 | 0.1# |

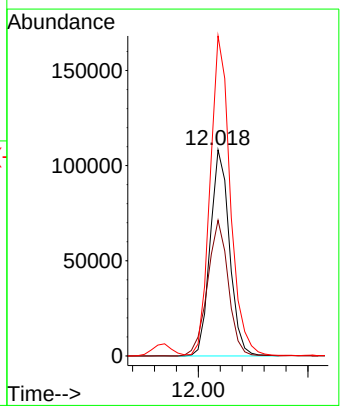


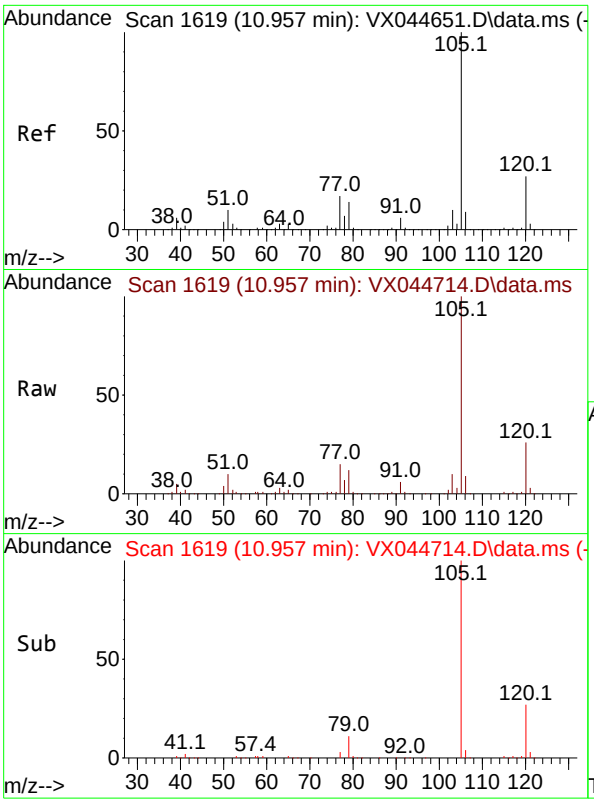




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:152 Resp: 132232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 71.0 | 43.8 | 131.4 |
| 150 | 161.9 | 0.0 | 347.8 |



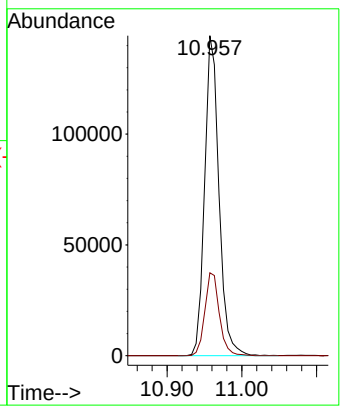


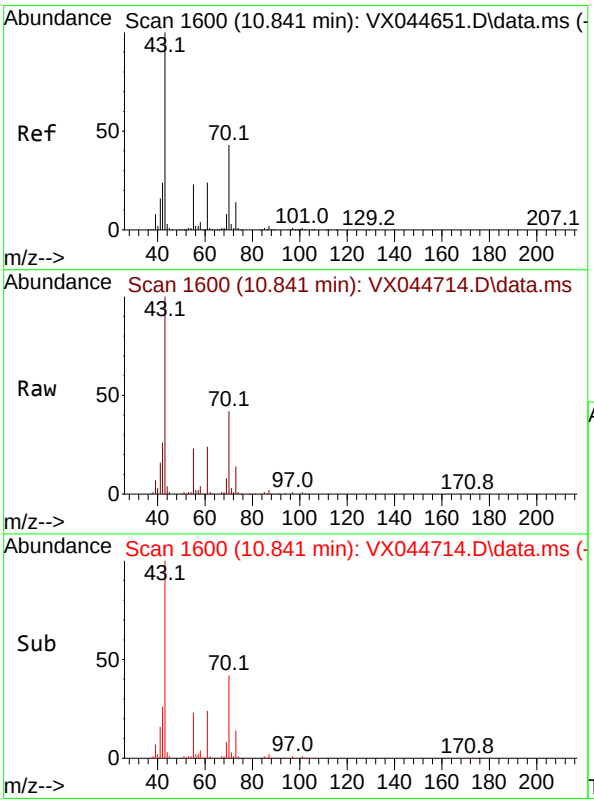

#73
Isopropylbenzene
Concen: 17.780 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:105 Resp: 192068

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 26.3 | 13.2 | 39.6 |

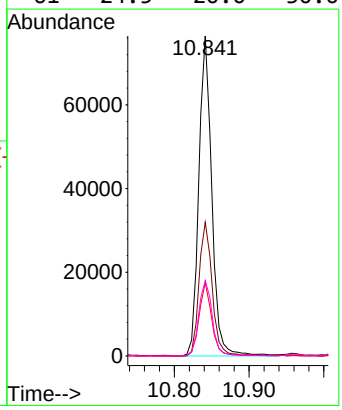


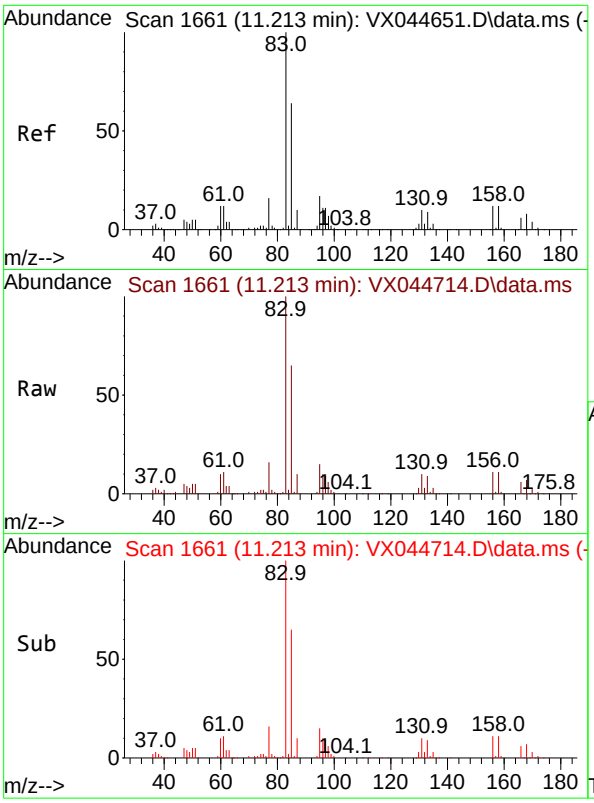




#74
N-amyl acetate
Concen: 17.326 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 43 Resp: 92250

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 42.5 | 35.2 | 52.8 |
| 55 | 22.5 | 19.0 | 28.4 |
| 61 | 24.5 | 20.0 | 30.0 |



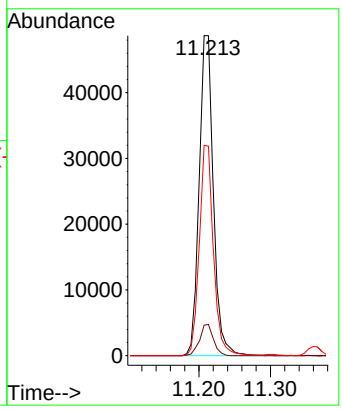


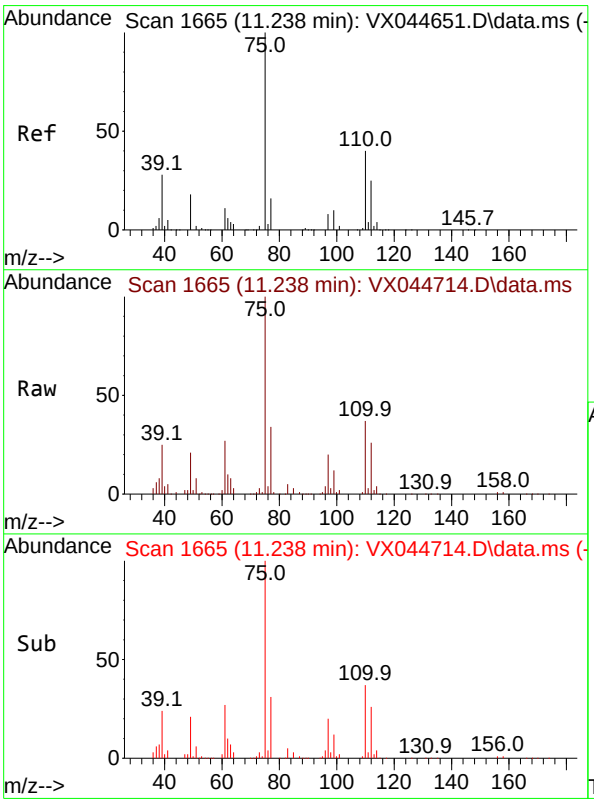

#75
1,1,2,2-Tetrachloroethane
Concen: 18.034 ug/l
RT: 11.213 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 83 Resp: 67283

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 5.0 | 14.9 |
| 85 | 65.2 | 32.0 | 96.2 |

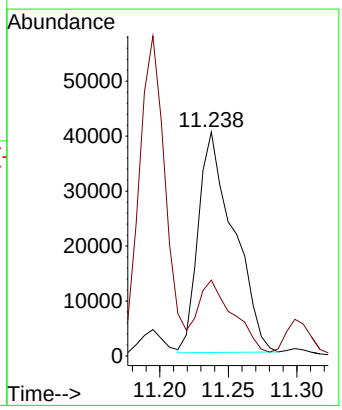


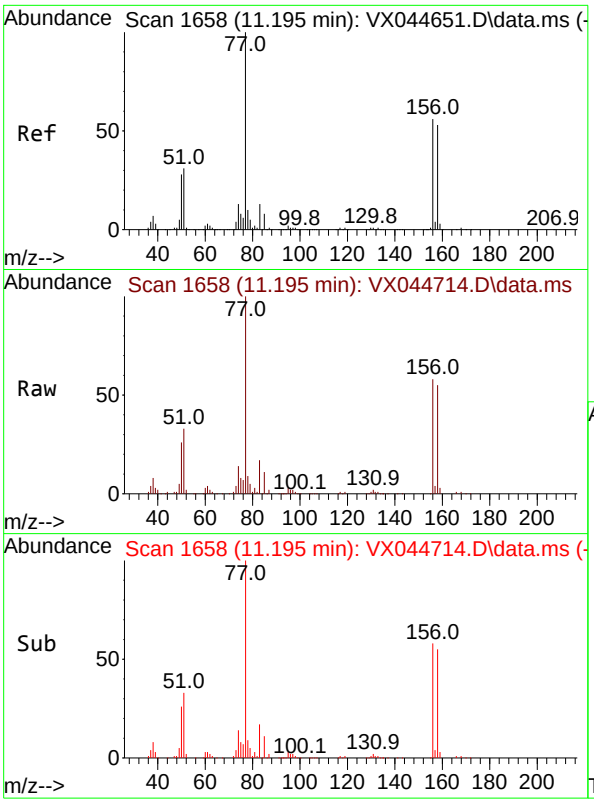




#76
1,2,3-Trichloropropane
Concen: 22.540 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 75 Resp: 72333

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 35.1 | 23.4 | 70.2 |



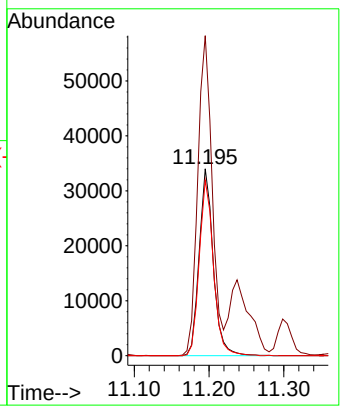


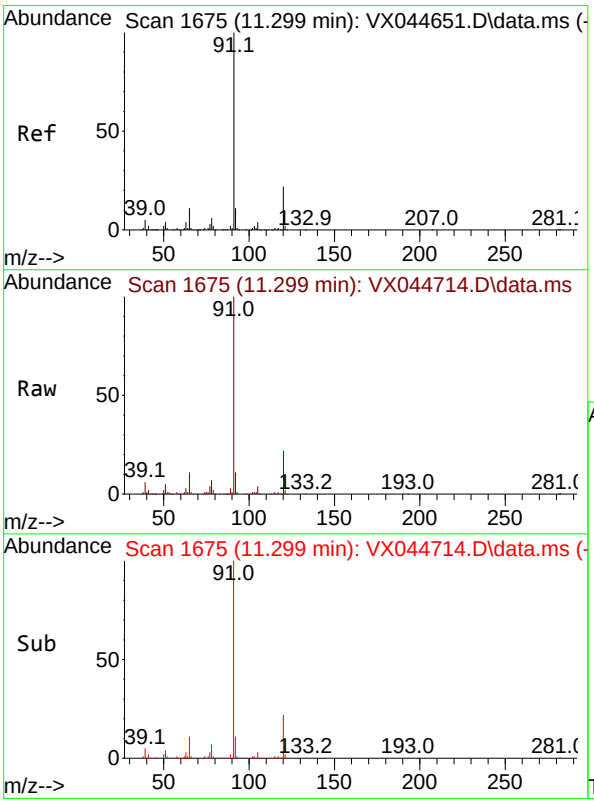

#77
Bromobenzene
Concen: 17.640 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:156 Resp: 44539

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 175.2 | 90.3 | 271.0 |
| 158 | 95.0 | 48.4 | 145.3 |

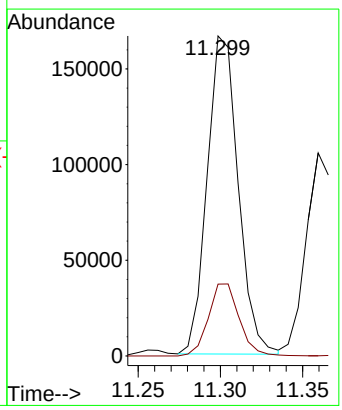


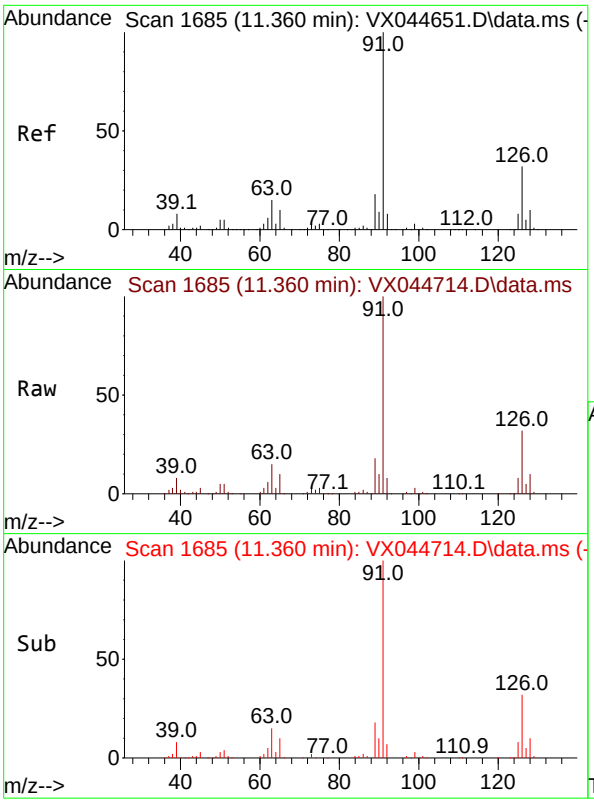




#78
n-propylbenzene
Concen: 18.333 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 91 Resp: 218400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.5 | 11.4 | 34.1 |



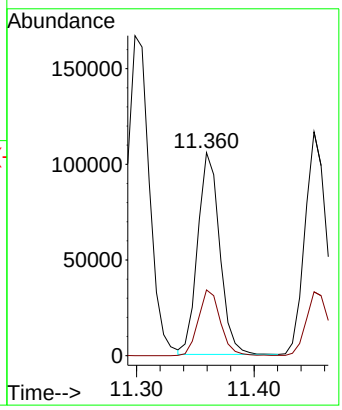


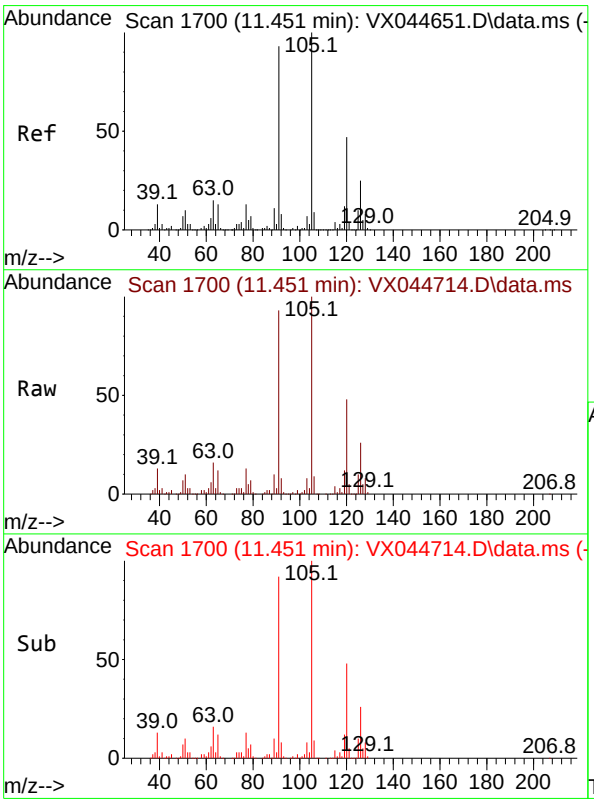

#79
2-Chlorotoluene
Concen: 17.842 ug/l
RT: 11.360 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 91 Resp: 137301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.7 | 16.2 | 48.5 |

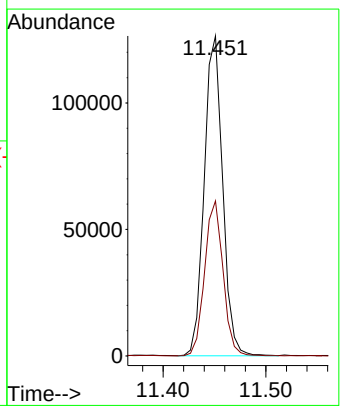


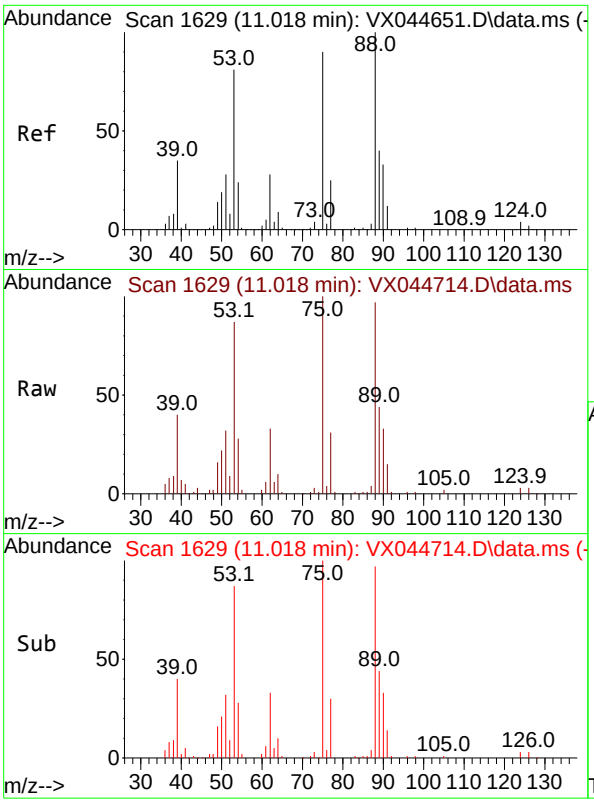




#80
1,3,5-Trimethylbenzene
Concen: 17.967 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:105 Resp: 158002

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.3 | 23.7 | 71.1 |



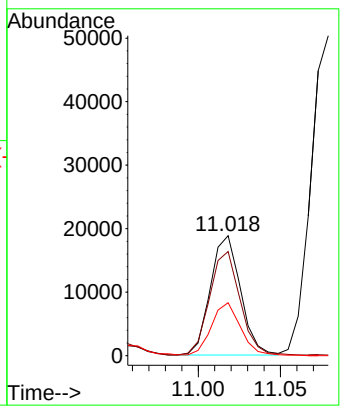


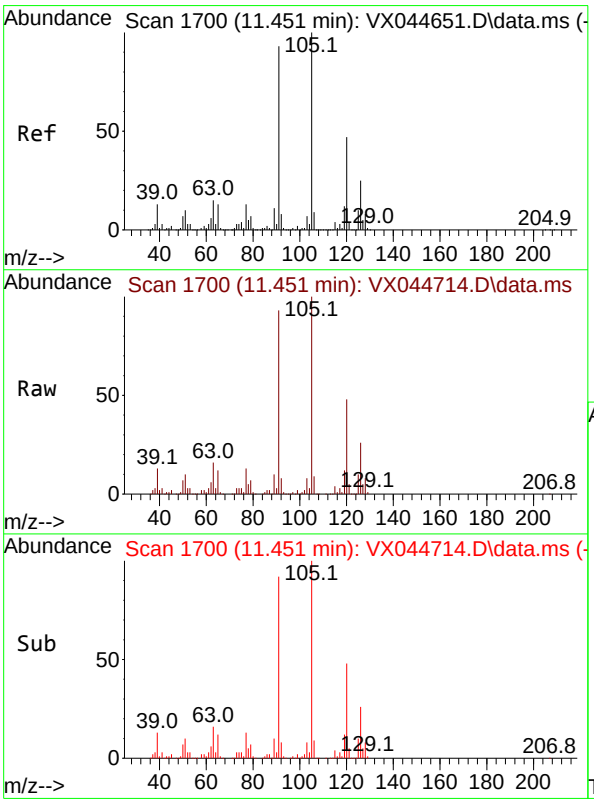

#81
trans-1,4-Dichloro-2-butene
Concen: 17.096 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 75 Resp: 23991

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 88.3 | 74.3 | 111.5 |
| 89 | 43.5 | 37.4 | 56.0 |

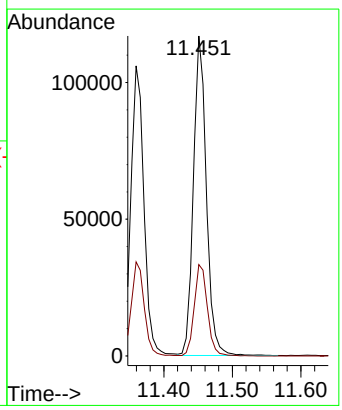


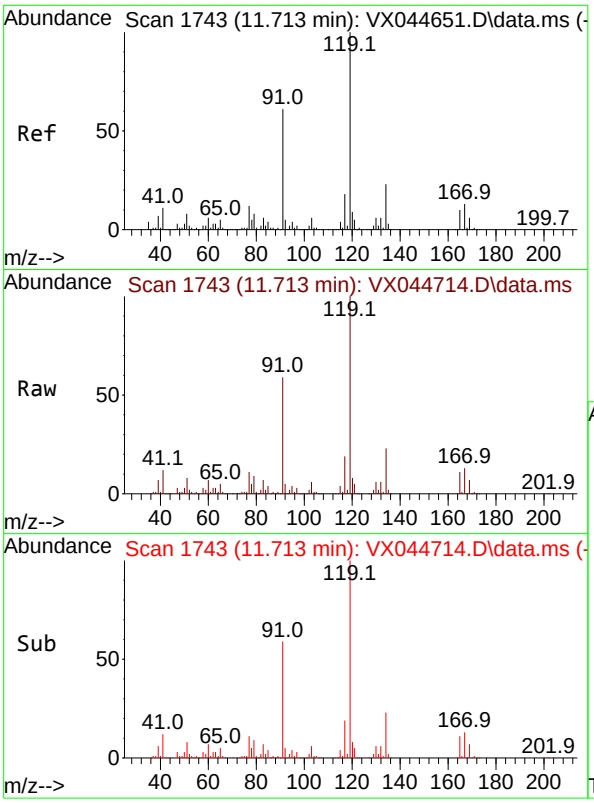




#82
4-Chlorotoluene
Concen: 18.197 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 91 Resp: 153401

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 29.3 | 13.9 | 41.7 |



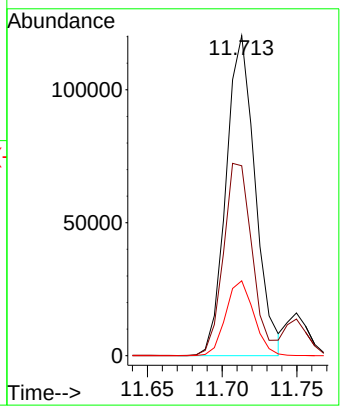


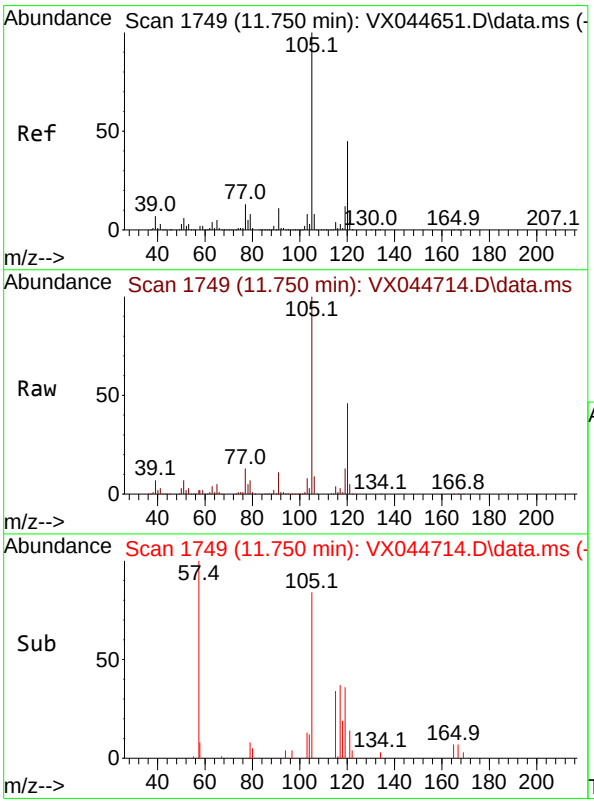

#83
tert-Butylbenzene
Concen: 17.676 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:119 Resp: 162534

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 58.7 | 30.0 | 90.0 |
| 134 | 22.7 | 11.2 | 33.5 |

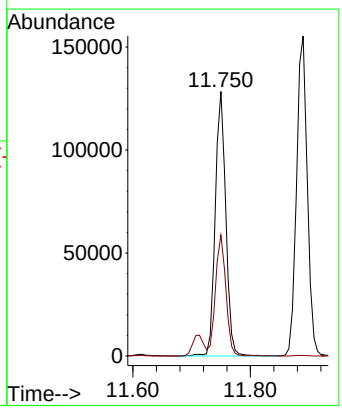


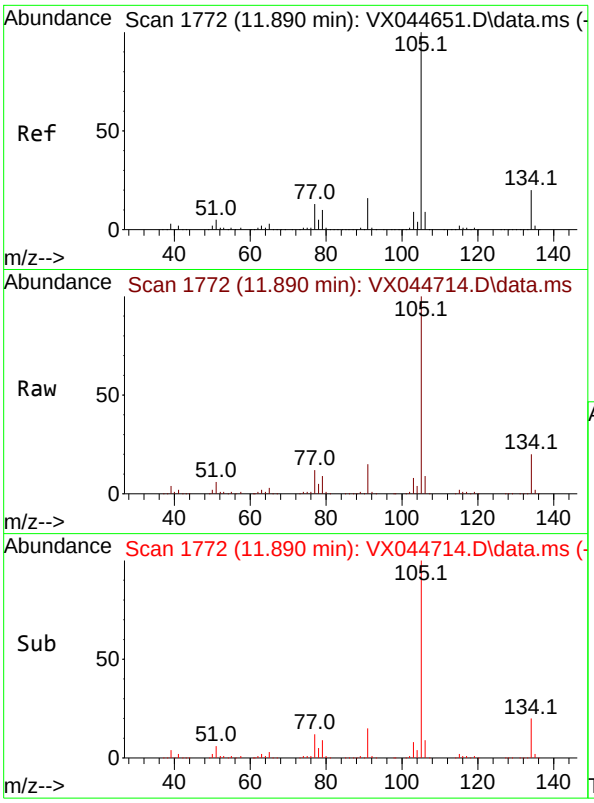




#84
1,2,4-Trimethylbenzene
Concen: 17.895 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:105 Resp: 159915

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 45.2 | 22.2 | 66.6 |



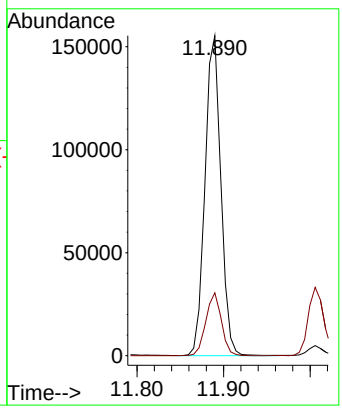


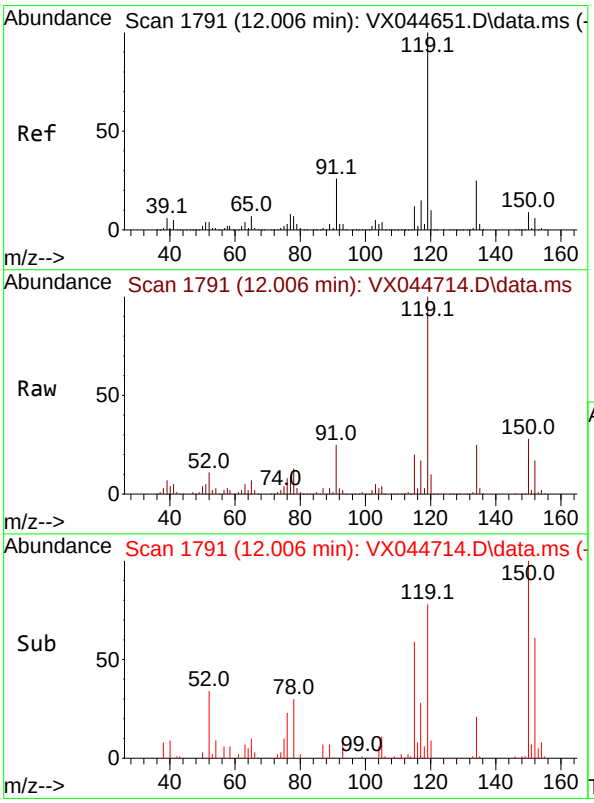

#85
sec-Butylbenzene
Concen: 18.485 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:105 Resp: 197899

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.8 | 29.5 |

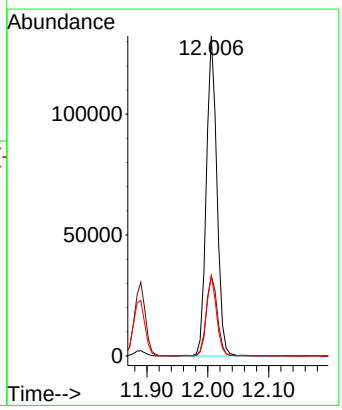


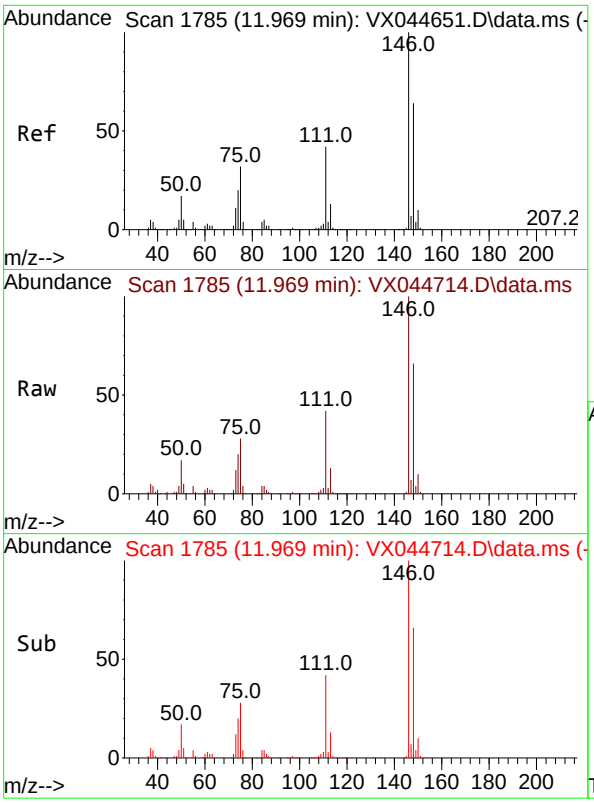




#86
p-Isopropyltoluene
Concen: 18.102 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:119 Resp: 159273

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 26.0 | 12.8 | 38.4 |
| 91 | 24.2 | 12.7 | 38.1 |



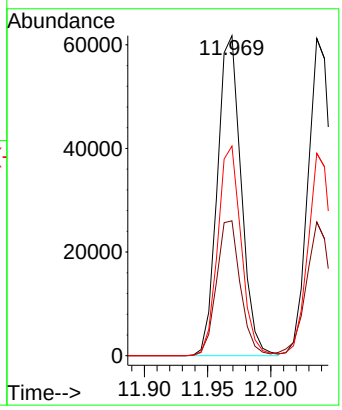


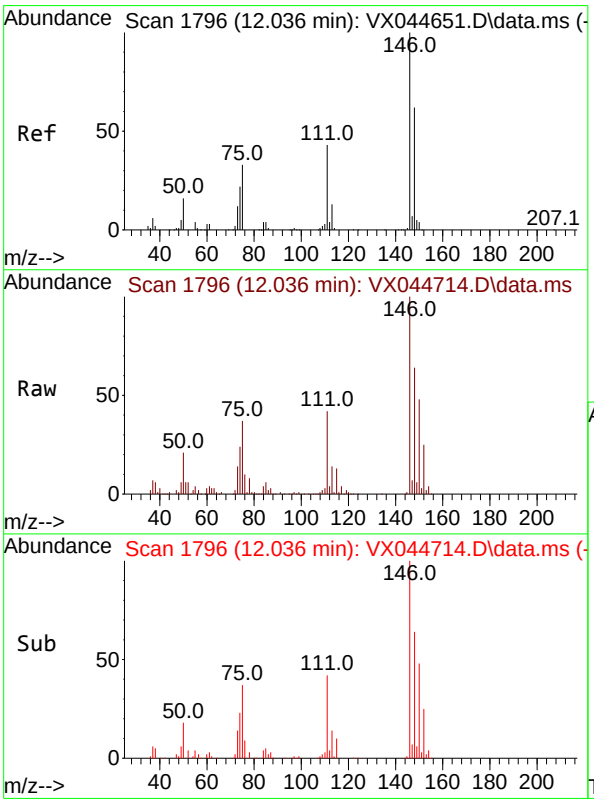

#87
1,3-Dichlorobenzene
Concen: 18.444 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:146 Resp: 80761

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.4 | 21.9 | 65.7 |
| 148 | 64.4 | 31.8 | 95.4 |

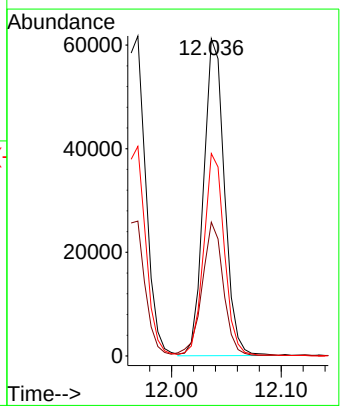


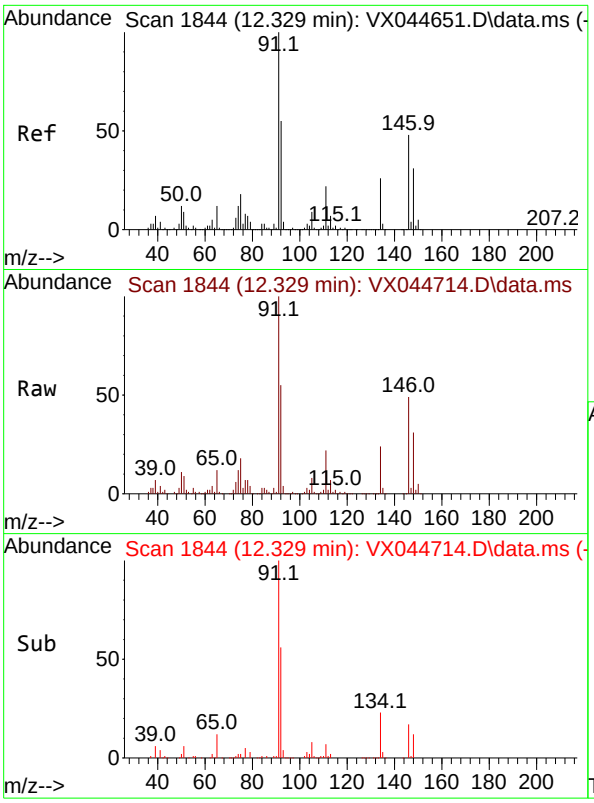




#88
1,4-Dichlorobenzene
Concen: 18.173 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:146 Resp: 80443

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 42.8 | 21.5 | 64.5 |
| 148 | 64.0 | 32.1 | 96.5 |



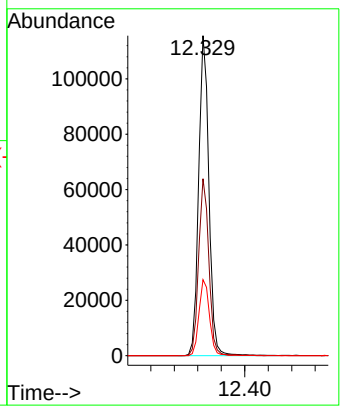


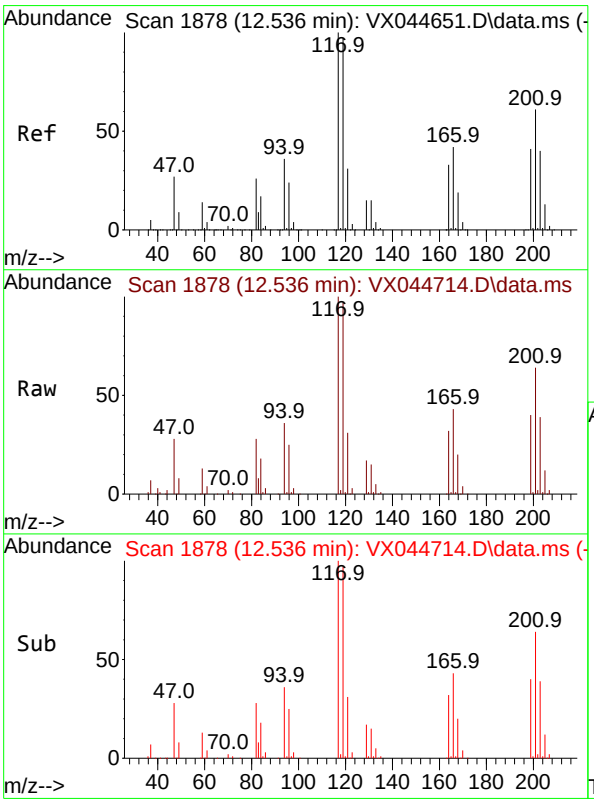

#89
n-Butylbenzene
Concen: 18.544 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion: 91 Resp: 140139

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 55.3 | 27.4 | 82.0 |
| 134 | 24.3 | 12.8 | 38.3 |

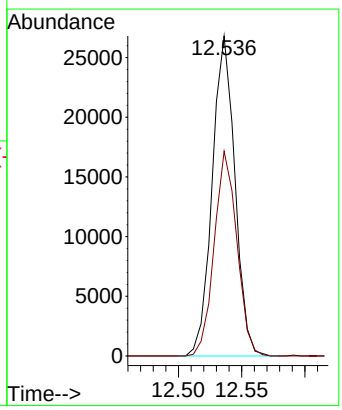


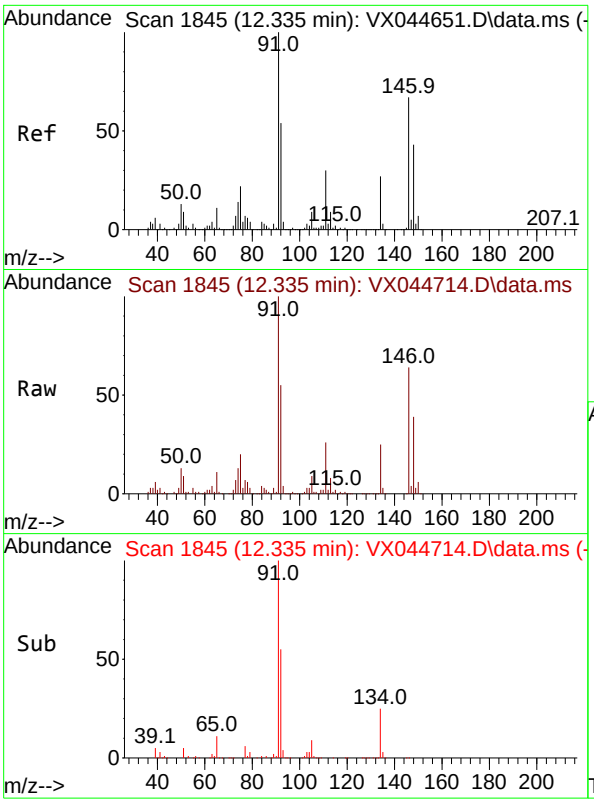




#90
Hexachloroethane
Concen: 16.760 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:117 Resp: 33393

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 64.0 | 32.3 | 96.8 |



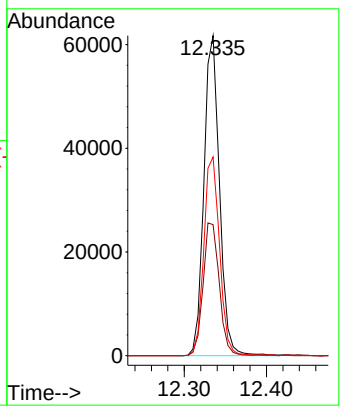


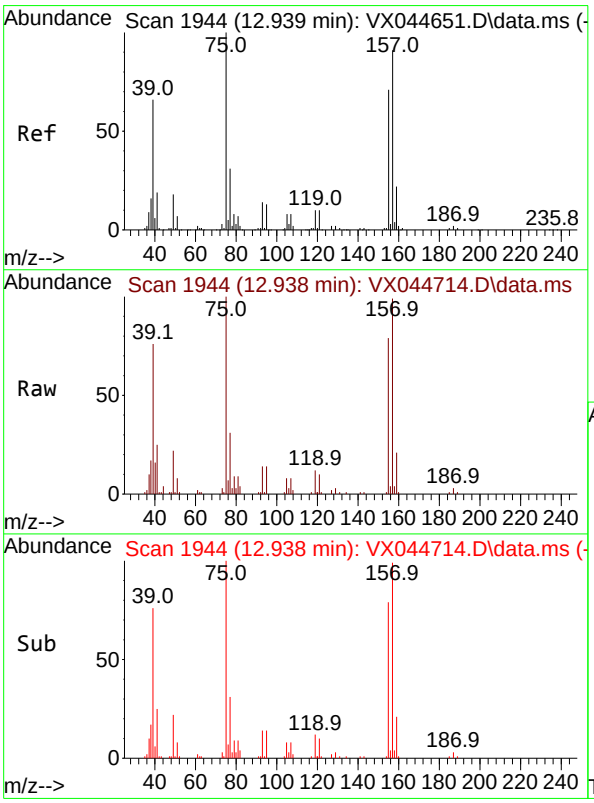

#91
1,2-Dichlorobenzene
Concen: 18.066 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:146 Resp: 81242

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 22.4 | 67.2 |
| 148 | 62.7 | 31.6 | 94.8 |

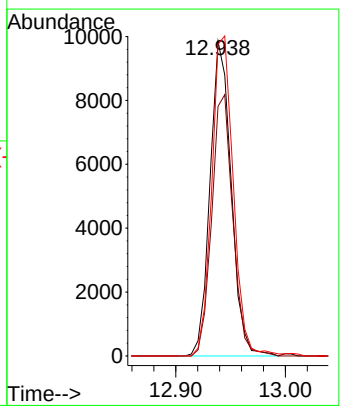


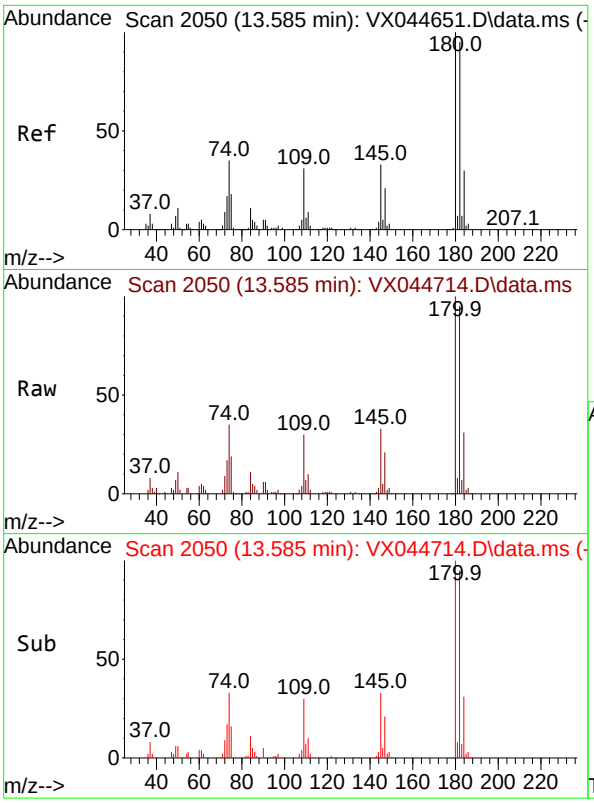




#92
1,2-Dibromo-3-Chloropropane
Concen: 14.461 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion: 75 Resp: 13195

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.9 | 39.0 | 116.9 |
| 157 | 104.2 | 49.9 | 149.7 |



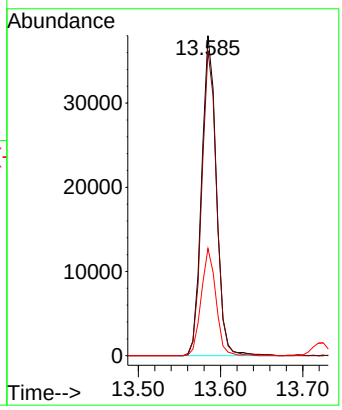


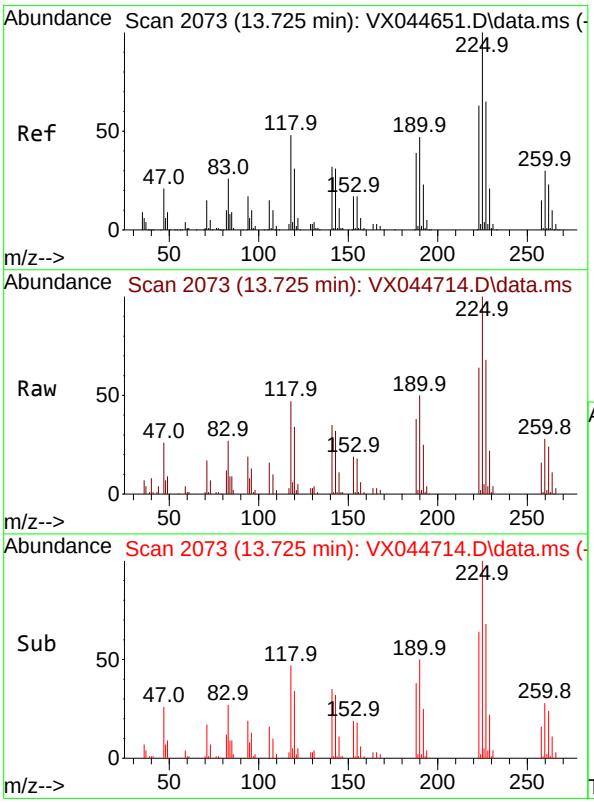

#93
1,2,4-Trichlorobenzene
Concen: 17.593 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:180 Resp: 47294

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.5 | 47.4 | 142.2 |
| 145 | 33.3 | 16.7 | 50.1 |

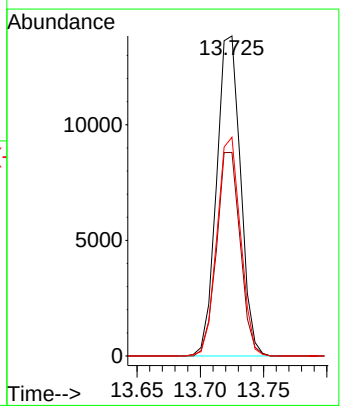


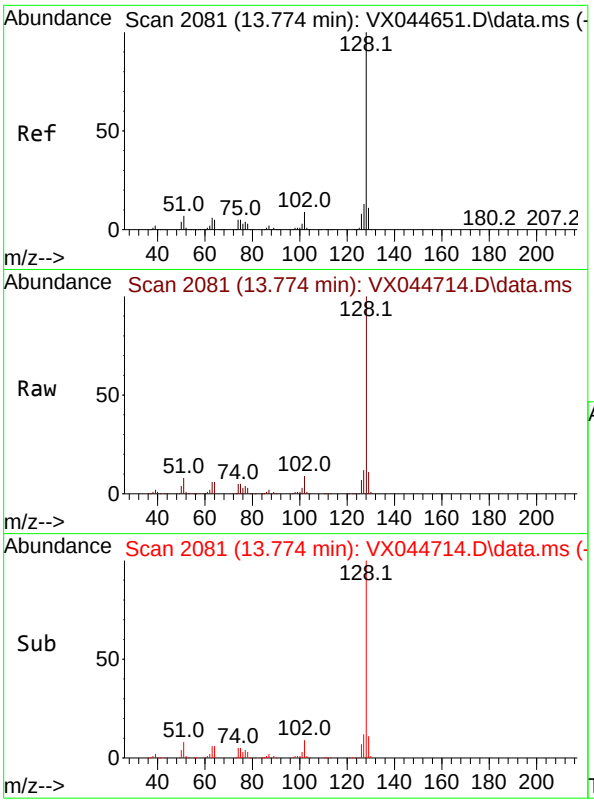




#94
Hexachlorobutadiene
Concen: 17.210 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:225 Resp: 18173

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.9 | 31.9 | 95.7 |
| 227 | 67.2 | 31.8 | 95.4 |



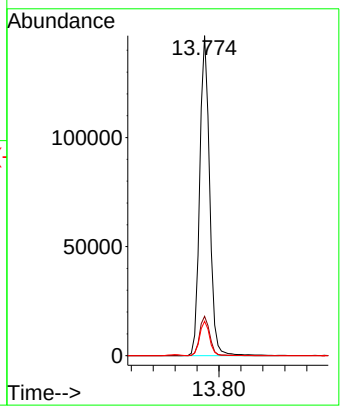


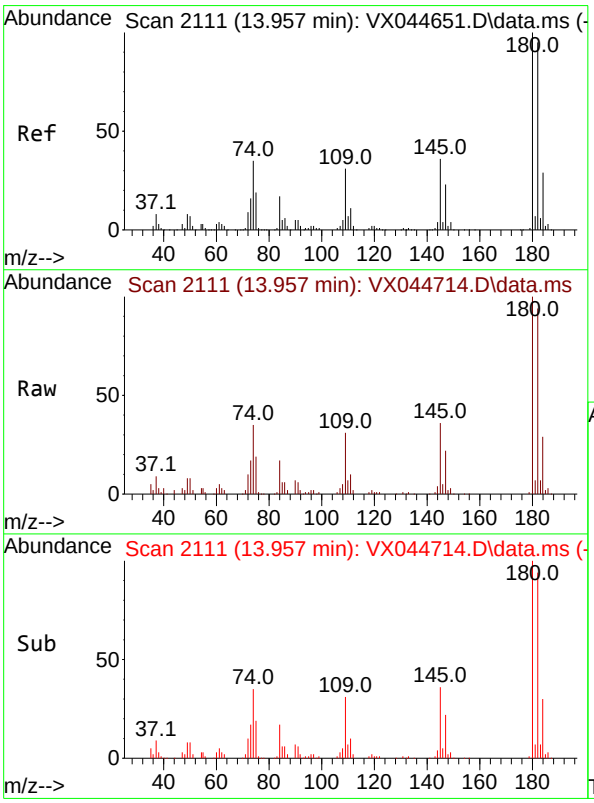

#95
Naphthalene
Concen: 17.766 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBS01

Tgt Ion:128 Resp: 184203

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.6 | 10.3 | 15.5 |
| 129 | 10.8 | 8.7 | 13.1 |

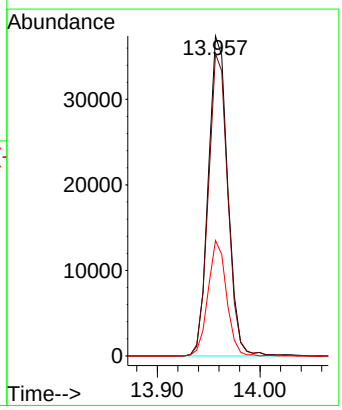



#96
1,2,3-Trichlorobenzene
Concen: 17.616 ug/l
RT: 13.957 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044714.D
Acq: 27 Jan 2025 11:24

Tgt Ion:180 Resp: 49087

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 94.8 | 47.2 | 141.6 |
| 145 | 34.4 | 17.5 | 52.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044715.D
Acq On : 27 Jan 2025 11:52
Operator : JC/MD
Sample : VX0127WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Quant Time: Jan 28 04:09:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.543 | 168 | 181106 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.750 | 114 | 329948 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 287428 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 125692 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.946 | 65 | 115109 | 42.108 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = | 84.220% | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 94586 | 45.125 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = | 90.240% | | |
| 50) Toluene-d8 | 8.646 | 98 | 351325 | 48.069 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = | 96.140% | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 127855 | 46.926 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = | 93.860% | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 42531 | 17.452 | ug/l | 97 |
| 3) Chloromethane | 1.300 | 50 | 50371 | 19.113 | ug/l | 98 |
| 4) Vinyl Chloride | 1.373 | 62 | 46045 | 17.683 | ug/l | 97 |
| 5) Bromomethane | 1.593 | 94 | 12365 | 19.887 | ug/l | 98 |
| 6) Chloroethane | 1.666 | 64 | 19570 | 40.984 | ug/l | 92 |
| 7) Trichlorofluoromethane | 1.873 | 101 | 50717 | 17.623 | ug/l | 97 |
| 8) Diethyl Ether | 2.129 | 74 | 15983 | 13.762 | ug/l | 87 |
| 9) 1,1,2-Trichlorotrifluo... | 2.318 | 101 | 41192 | 19.041 | ug/l | 99 |
| 10) Methyl Iodide | 2.446 | 142 | 51850 | 17.555 | ug/l | 98 |
| 11) Tert butyl alcohol | 2.971 | 59 | 52572 | 86.265 | ug/l # | 84 |
| 12) 1,1-Dichloroethene | 2.312 | 96 | 40671 | 19.179 | ug/l | 98 |
| 13) Acrolein | 2.233 | 56 | 19607 | 68.368 | ug/l | 100 |
| 14) Allyl chloride | 2.654 | 41 | 75257 | 18.227 | ug/l | 96 |
| 15) Acrylonitrile | 3.056 | 53 | 118706 | 99.311 | ug/l | 99 |
| 16) Acetone | 2.379 | 43 | 94951 | 87.792 | ug/l | 95 |
| 17) Carbon Disulfide | 2.501 | 76 | 111388 | 19.250 | ug/l | 99 |
| 18) Methyl Acetate | 2.696 | 43 | 66037 | 19.791 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 138618 | 18.047 | ug/l | 97 |
| 20) Methylene Chloride | 2.782 | 84 | 45743 | 18.162 | ug/l | 97 |
| 21) trans-1,2-Dichloroethene | 3.086 | 96 | 40658 | 18.364 | ug/l | 98 |
| 22) Diisopropyl ether | 3.757 | 45 | 141633 | 19.734 | ug/l | 97 |
| 23) Vinyl Acetate | 3.714 | 43 | 602846 | 95.967 | ug/l | 99 |
| 24) 1,1-Dichloroethane | 3.599 | 63 | 78982 | 18.558 | ug/l | 100 |
| 25) 2-Butanone | 4.550 | 43 | 157607 | 98.011 | ug/l | 99 |
| 26) 2,2-Dichloropropane | 4.464 | 77 | 67624 | 16.394 | ug/l | 95 |
| 27) cis-1,2-Dichloroethene | 4.476 | 96 | 50234 | 18.038 | ug/l | 98 |
| 28) Bromochloromethane | 4.891 | 49 | 39174 | 19.697 | ug/l | 95 |
| 29) Tetrahydrofuran | 5.001 | 42 | 102301 | 98.627 | ug/l | 98 |
| 30) Chloroform | 5.080 | 83 | 77159 | 17.964 | ug/l | 97 |
| 31) Cyclohexane | 5.464 | 56 | 71276 | 20.706 | ug/l | 99 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 65982 | 16.710 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 53609 | 18.373 | ug/l | 99 |
| 37) Ethyl Acetate | 4.708 | 43 | 61115 | 19.668 | ug/l | 97 |
| 38) Carbon Tetrachloride | 5.665 | 117 | 56337 | 17.165 | ug/l | 98 |
| 39) Methylcyclohexane | 7.372 | 83 | 75204 | 19.415 | ug/l | 97 |
| 40) Benzene | 6.031 | 78 | 173290 | 19.166 | ug/l | 98 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044715.D
Acq On : 27 Jan 2025 11:52
Operator : JC/MD
Sample : VX0127WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Quant Time: Jan 28 04:09:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.915 | 41 | 34872 | 19.259 | ug/l | | 98 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 57405 | 17.395 | ug/l | | 99 |
| 43) Isopropyl Acetate | 6.336 | 43 | 107342 | 18.779 | ug/l | | 99 |
| 44) Trichloroethene | 7.122 | 130 | 40128 | 18.461 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 43371 | 19.056 | ug/l | | 96 |
| 46) Dibromomethane | 7.573 | 93 | 30193 | 17.427 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.817 | 83 | 61842 | 17.405 | ug/l | | 96 |
| 48) Methyl methacrylate | 7.689 | 41 | 50212 | 18.924 | ug/l | | 99 |
| 49) 1,4-Dioxane | 7.659 | 88 | 20996 | 379.274 | ug/l | | 96 |
| 51) 4-Methyl-2-Pentanone | 8.567 | 43 | 319737 | 101.217 | ug/l | | 98 |
| 52) Toluene | 8.713 | 92 | 106487 | 19.242 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 65922 | 17.958 | ug/l | | 97 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 73264 | 18.406 | ug/l | | 96 |
| 55) 1,1,2-Trichloroethane | 9.146 | 97 | 42407 | 18.940 | ug/l | | 94 |
| 56) Ethyl methacrylate | 9.116 | 69 | 73137 | 18.998 | ug/l | | 98 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 73209 | 19.201 | ug/l | | 99 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 157160 | 83.152 | ug/l | | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 231694 | 99.695 | ug/l | | 99 |
| 60) Dibromochloromethane | 9.518 | 129 | 47950 | 18.246 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 44437 | 18.938 | ug/l | | 98 |
| 64) Tetrachloroethene | 9.268 | 164 | 33701 | 18.672 | ug/l | | 99 |
| 65) Chlorobenzene | 10.073 | 112 | 114176 | 18.702 | ug/l | | 99 |
| 66) 1,1,1,2-Tetrachloroethane | 10.158 | 131 | 39214 | 17.674 | ug/l | | 98 |
| 67) Ethyl Benzene | 10.189 | 91 | 199900 | 18.765 | ug/l | | 98 |
| 68) m/p-Xylenes | 10.299 | 106 | 150751 | 38.135 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 75639 | 18.921 | ug/l | | 99 |
| 70) Styrene | 10.652 | 104 | 126504 | 19.600 | ug/l | | 97 |
| 71) Bromoform | 10.799 | 173 | 32141 | 17.798 | ug/l | # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 189275 | 18.433 | ug/l | | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 89318 | 17.648 | ug/l | | 100 |
| 75) 1,1,2,2-Tetrachloroethane | 11.207 | 83 | 64877 | 18.294 | ug/l | | 98 |
| 76) 1,2,3-Trichloropropane | 11.237 | 75 | 74243 | 24.339 | ug/l | | 80 |
| 77) Bromobenzene | 11.195 | 156 | 44492 | 18.538 | ug/l | | 94 |
| 78) n-propylbenzene | 11.298 | 91 | 217748 | 19.229 | ug/l | | 100 |
| 79) 2-Chlorotoluene | 11.359 | 91 | 134830 | 18.432 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 158844 | 19.003 | ug/l | | 99 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 23711 | 17.776 | ug/l | | 94 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 150487 | 18.780 | ug/l | | 98 |
| 83) tert-Butylbenzene | 11.713 | 119 | 160244 | 18.334 | ug/l | | 98 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 158646 | 18.677 | ug/l | | 100 |
| 85) sec-Butylbenzene | 11.890 | 105 | 196136 | 19.273 | ug/l | | 99 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 159144 | 19.029 | ug/l | | 98 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 78221 | 18.793 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 78858 | 18.742 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 142284 | 19.808 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 33238 | 17.551 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 79447 | 18.586 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.938 | 75 | 12965 | 14.949 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 48749 | 19.078 | ug/l | | 97 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 18012 | 17.945 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 182044 | 18.471 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.956 | 180 | 48973 | 18.489 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044715.D
Acq On : 27 Jan 2025 11:52
Operator : JC/MD
Sample : VX0127WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Quant Time: Jan 28 04:09:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

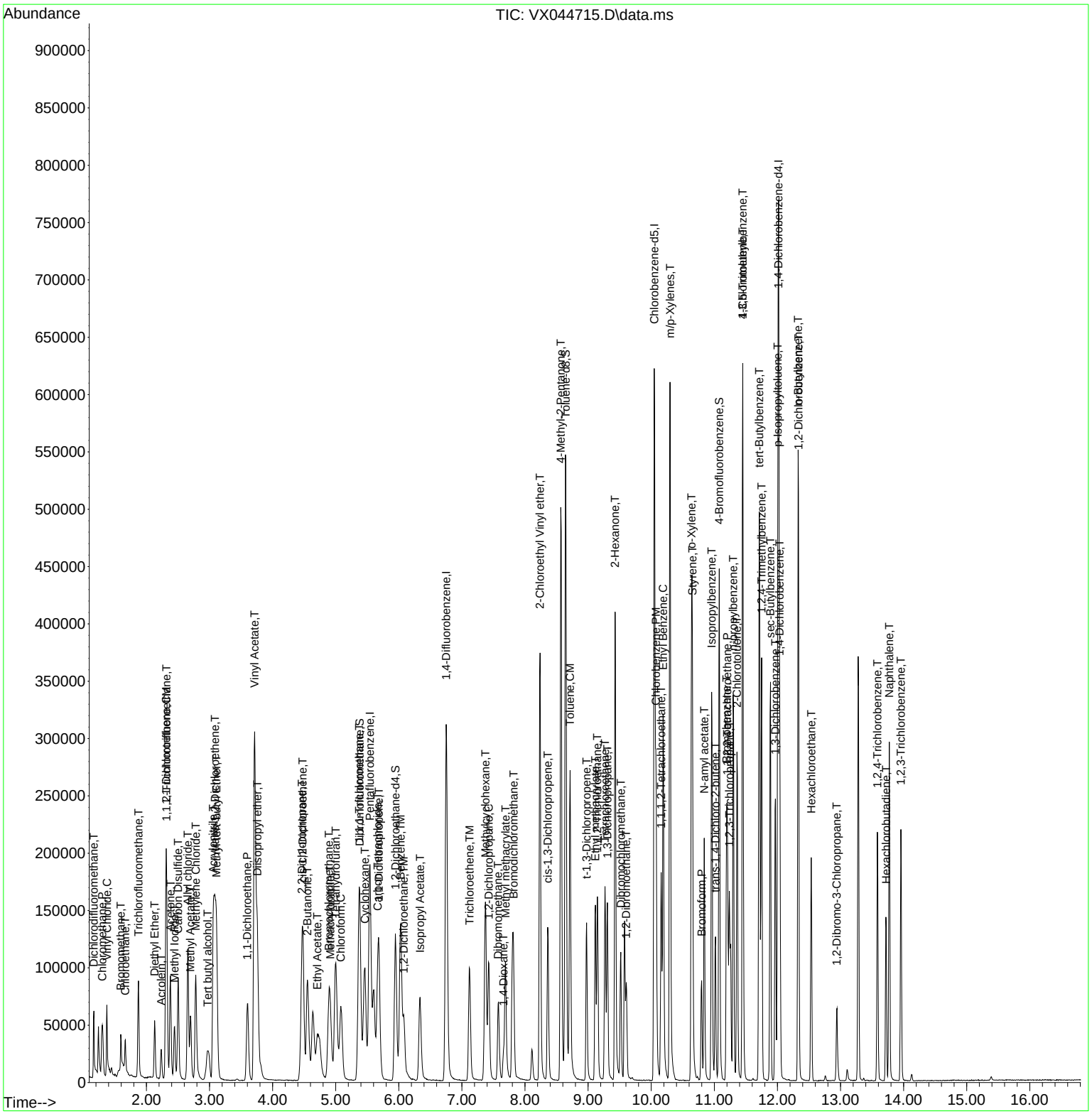
(#) = qualifier out of range (m) = manual integration (+) = signals summed

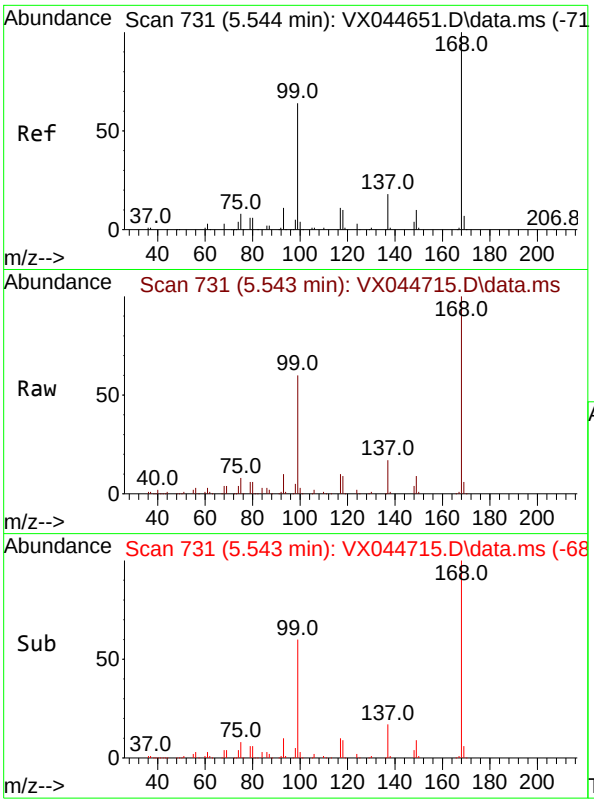
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044715.D
Acq On : 27 Jan 2025 11:52
Operator : JC/MD
Sample : VX0127WBSD01
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Quant Time: Jan 28 04:09:21 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



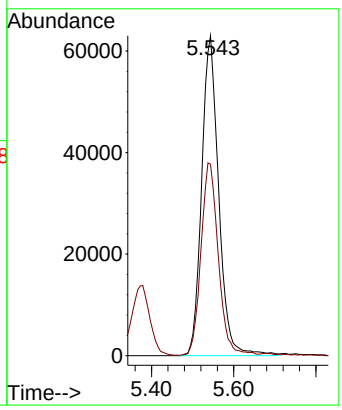


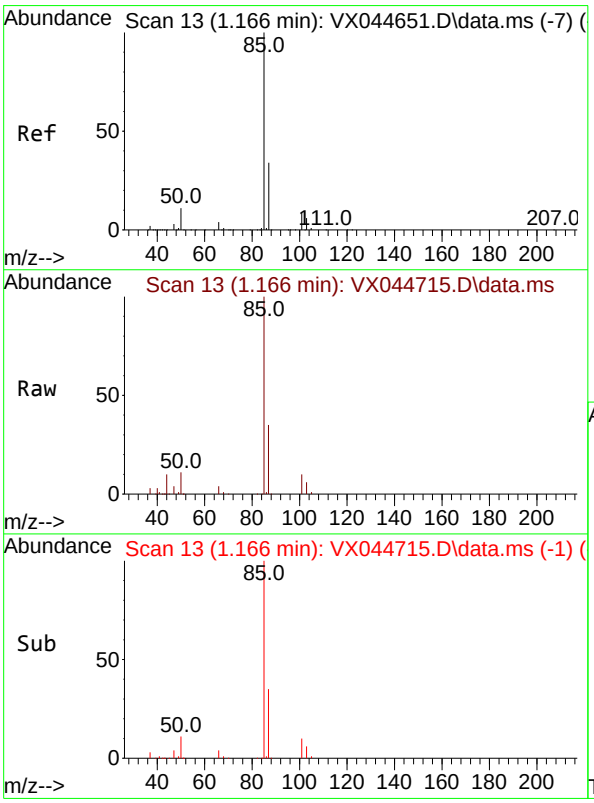

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 7
Delta R.T. -0.001 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:168 Resp: 181106

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 59.7 | 51.1 | 76.7 |

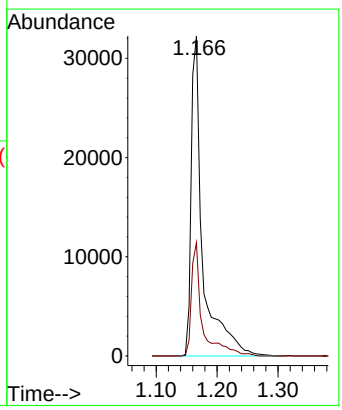


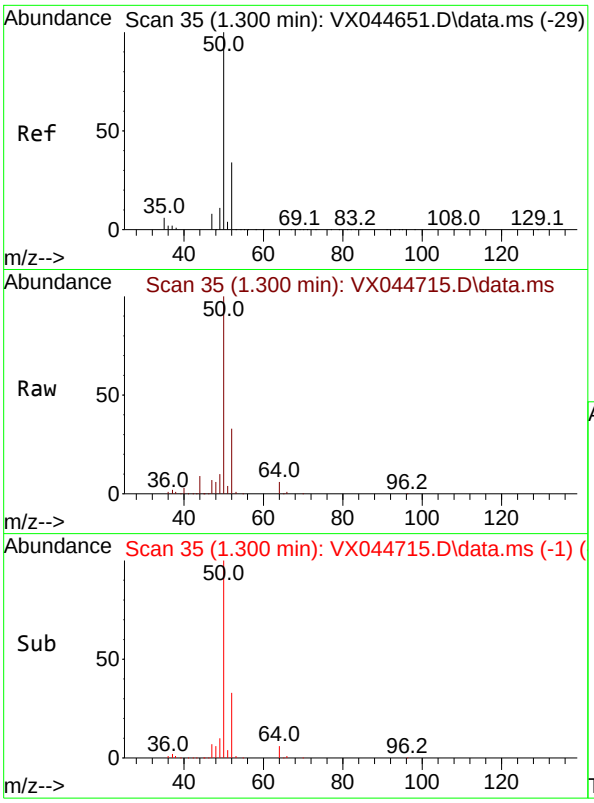




#2
Dichlorodifluoromethane
Concen: 17.452 ug/l
RT: 1.166 min Scan# 13
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 85 Resp: 42531

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 35.4 | 16.8 | 50.4 |



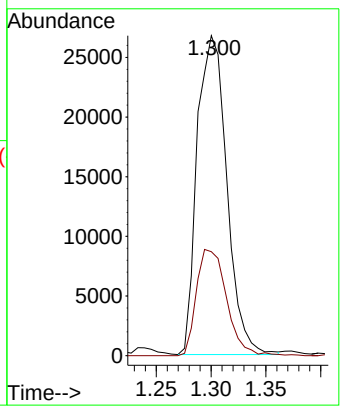


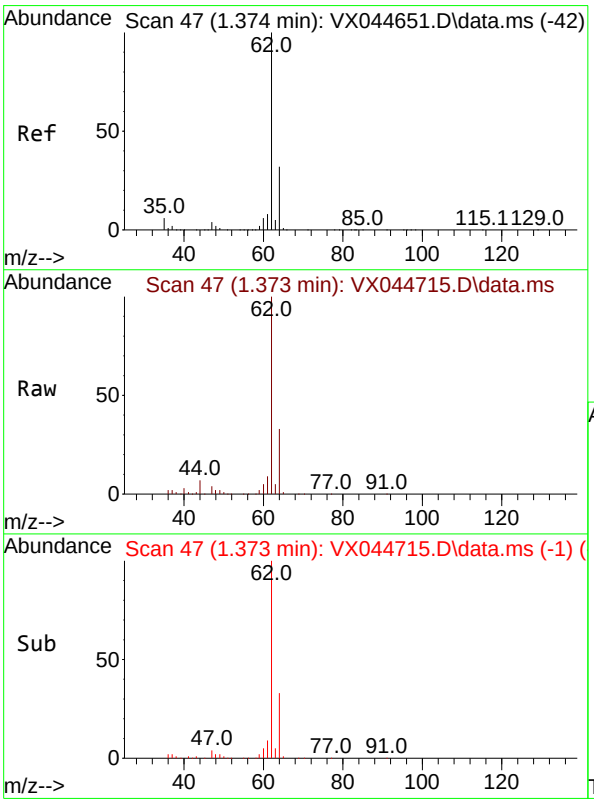

#3
Chloromethane
Concen: 19.113 ug/l
RT: 1.300 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 50 Resp: 50371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.6 | 27.0 | 40.4 |

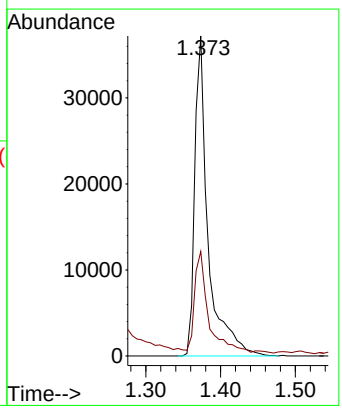


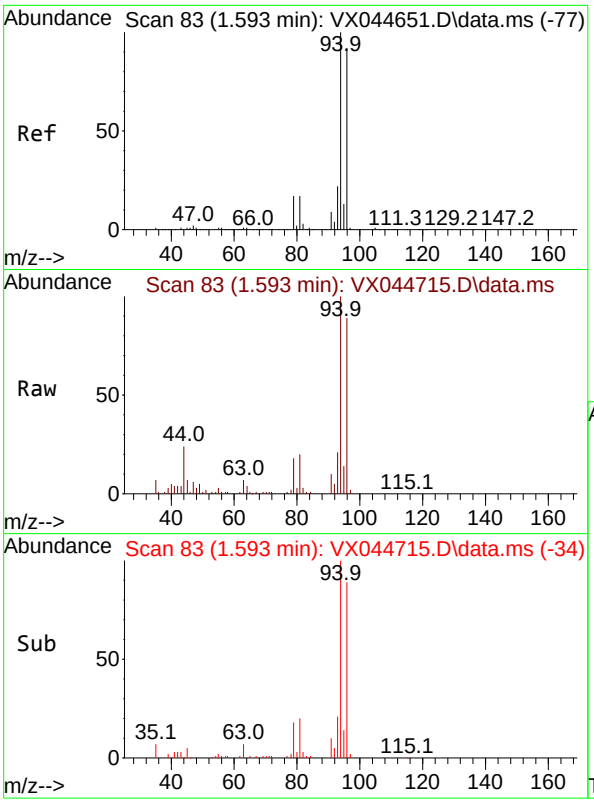




#4
Vinyl Chloride
Concen: 17.683 ug/l
RT: 1.373 min Scan# 47
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 62 Resp: 46045

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.4 | 26.6 | 39.8 |



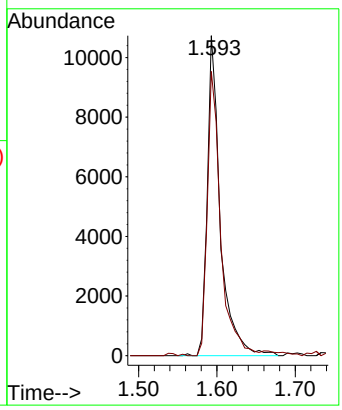


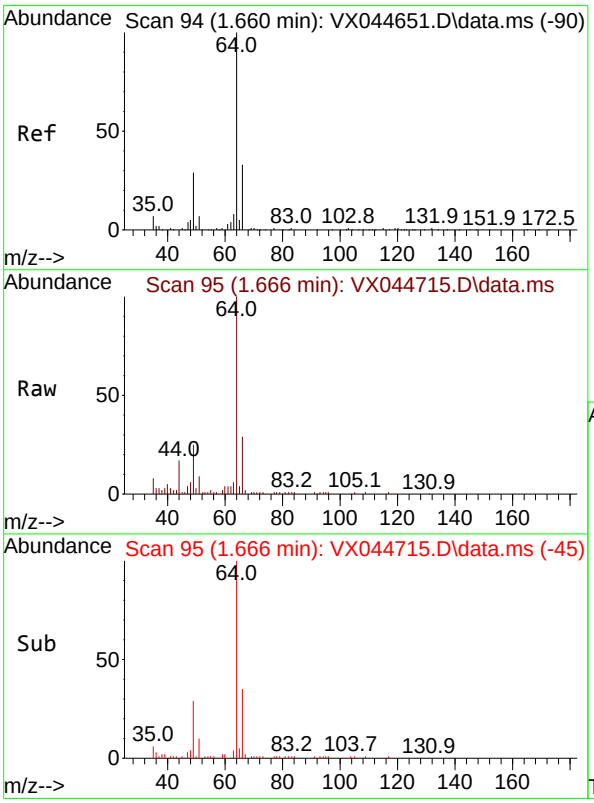

#5
Bromomethane
Concen: 19.887 ug/l
RT: 1.593 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 94 Resp: 12365

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 88.8 | 72.8 | 109.2 |

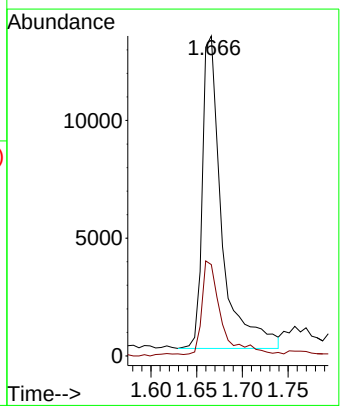


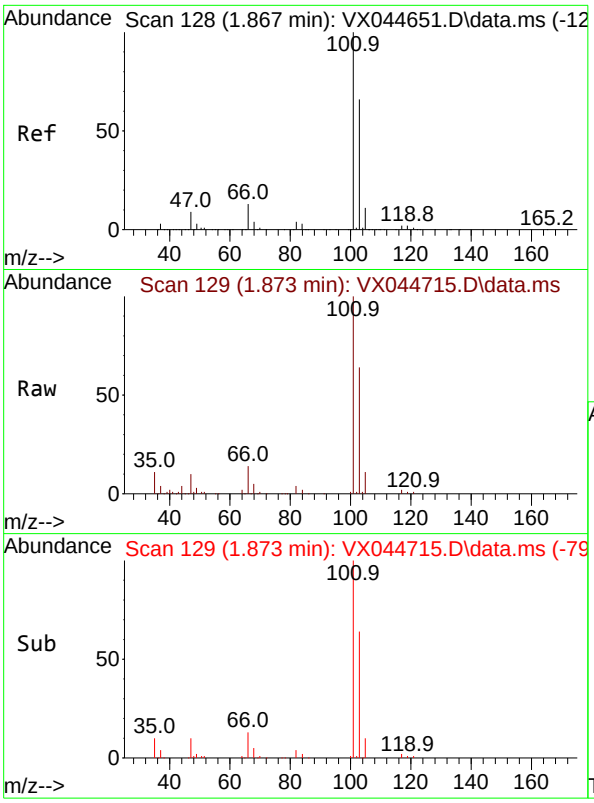




#6
Chloroethane
Concen: 40.984 ug/l
RT: 1.666 min Scan# 95
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 64 Resp: 19570

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 28.6 | 26.6 | 39.8 |



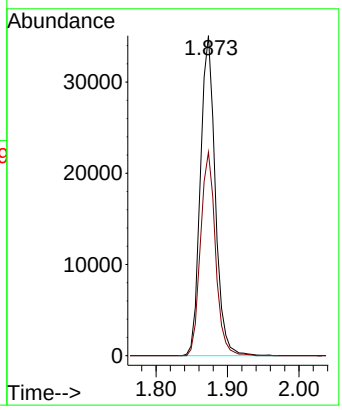


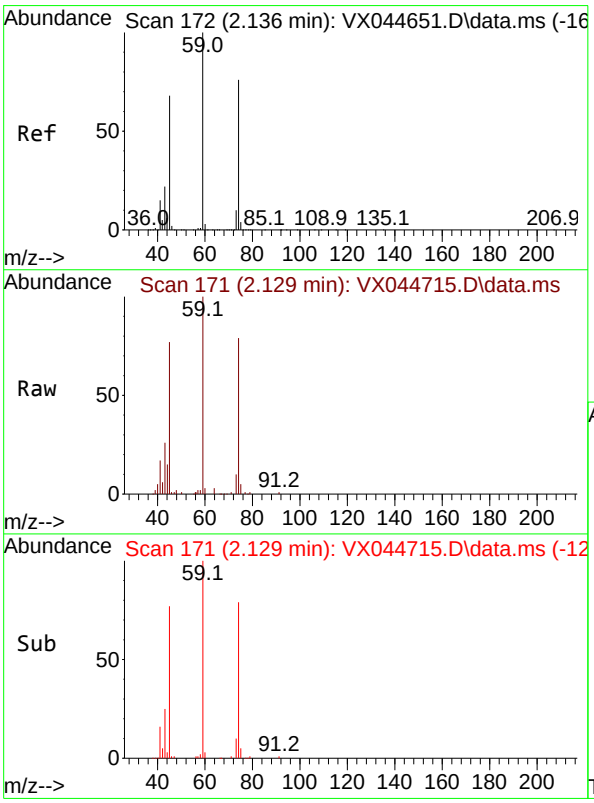

#7
Trichlorofluoromethane
Concen: 17.623 ug/l
RT: 1.873 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:101 Resp: 50717

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 63.6 | 52.5 | 78.7 |

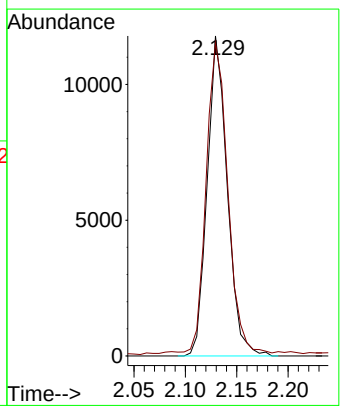


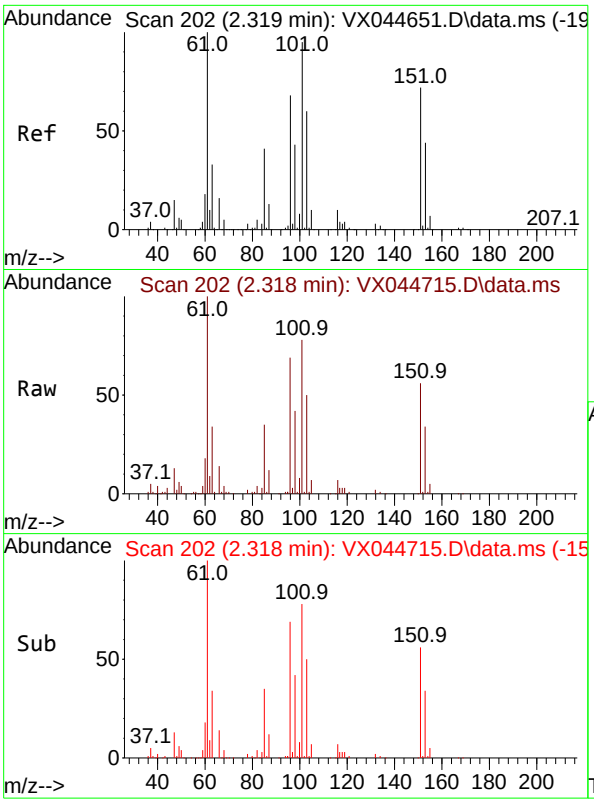




#8
Diethyl Ether
Concen: 13.762 ug/l
RT: 2.129 min Scan# 171
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 74 Resp: 15983

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 106.3 | 47.1 | 141.3 |



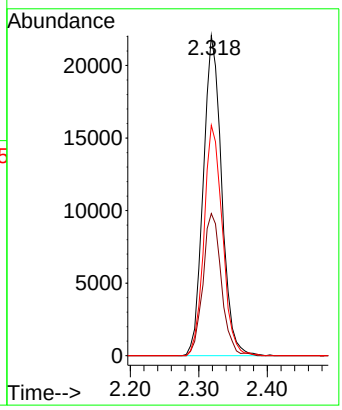


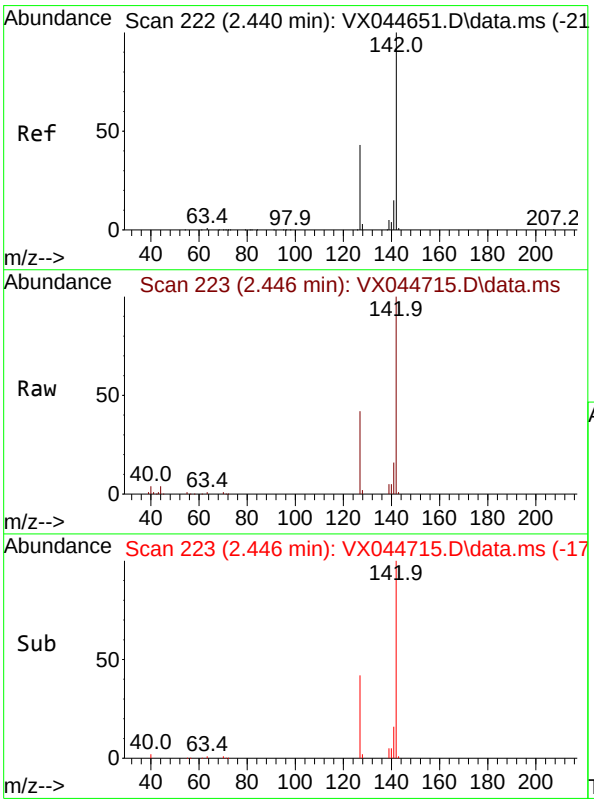

#9
1,1,2-Trichlorotrifluoroethane
Concen: 19.041 ug/l
RT: 2.318 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:101 Resp: 41192

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 44.4 | 35.3 | 52.9 |
| 151 | 72.0 | 58.2 | 87.4 |

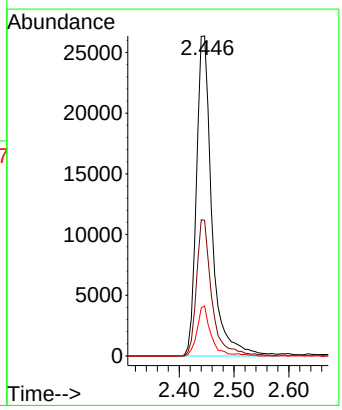


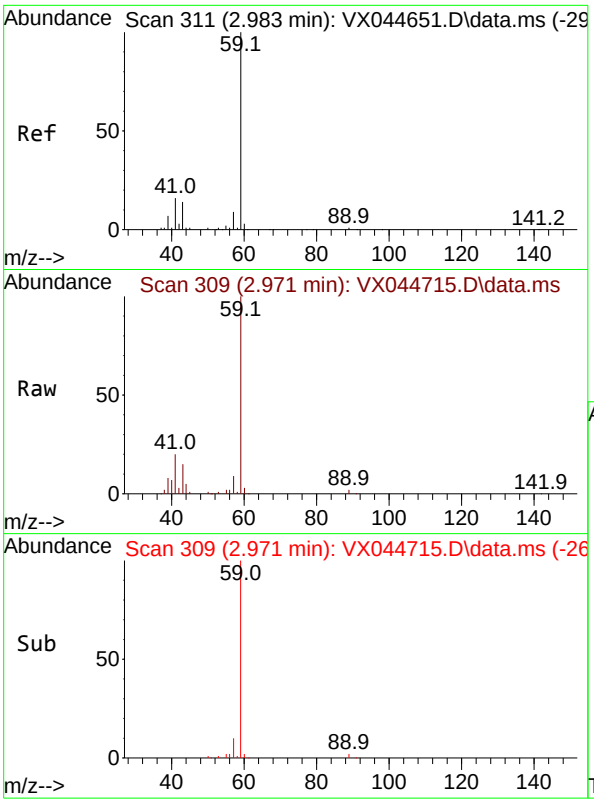




#10
Methyl Iodide
Concen: 17.555 ug/l
RT: 2.446 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:142 Resp: 51850

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 42.0 | 35.0 | 52.4 |
| 141 | 14.3 | 11.7 | 17.5 |



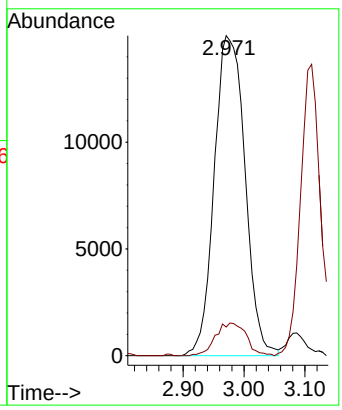


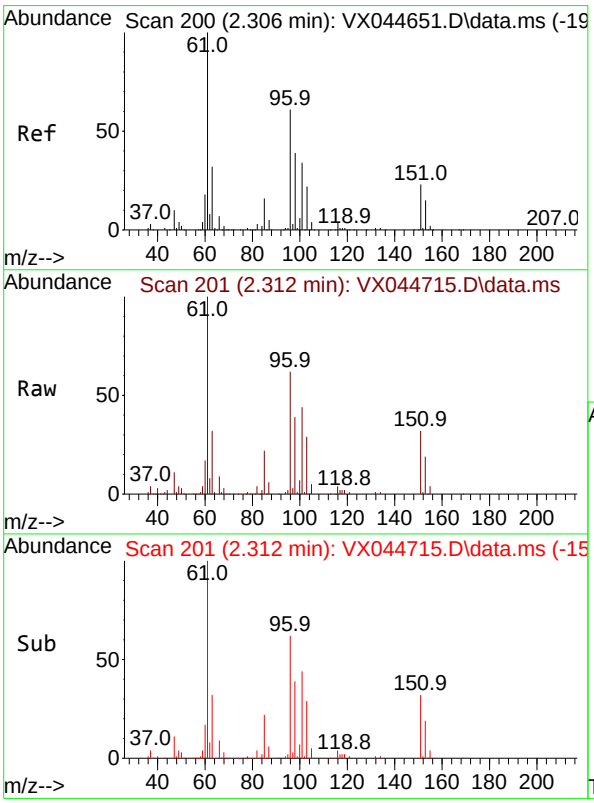

#11
Tert butyl alcohol
Concen: 86.265 ug/l
RT: 2.971 min Scan# 3
Delta R.T. -0.012 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 59 Resp: 52572

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.2 | 3.9 | 5.9# |

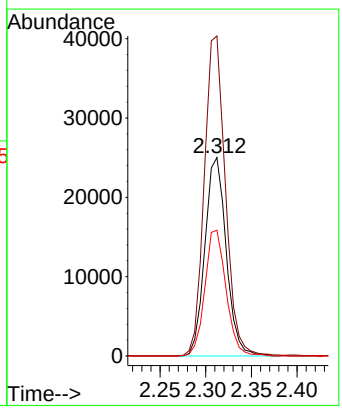


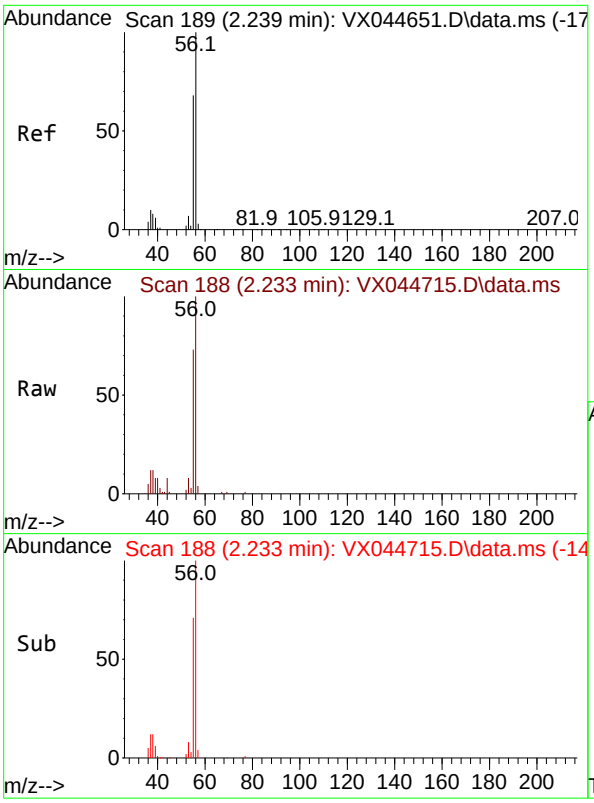




#12
1,1-Dichloroethene
Concen: 19.179 ug/l
RT: 2.312 min Scan# 201
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 96 Resp: 40671

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 161.2 | 131.1 | 196.7 |
| 98 | 63.3 | 51.2 | 76.8 |



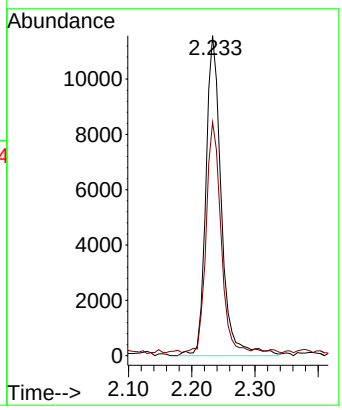


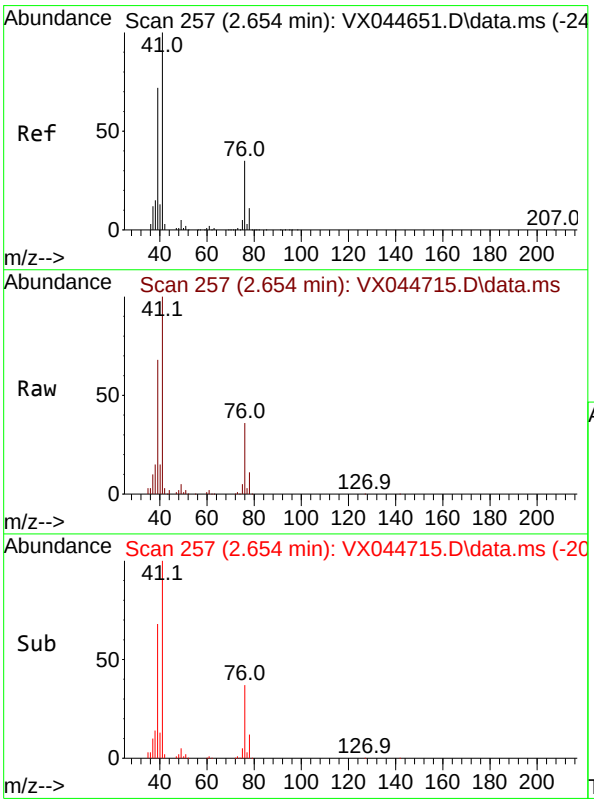

#13
Acrolein
Concen: 68.368 ug/l
RT: 2.233 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 56 Resp: 19607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 68.6 | 55.1 | 82.7 |

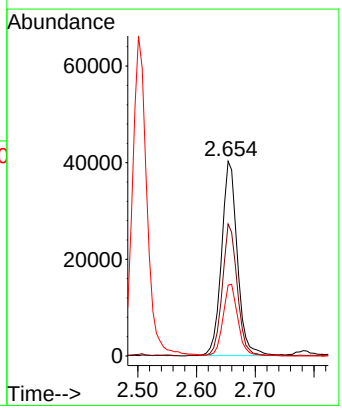


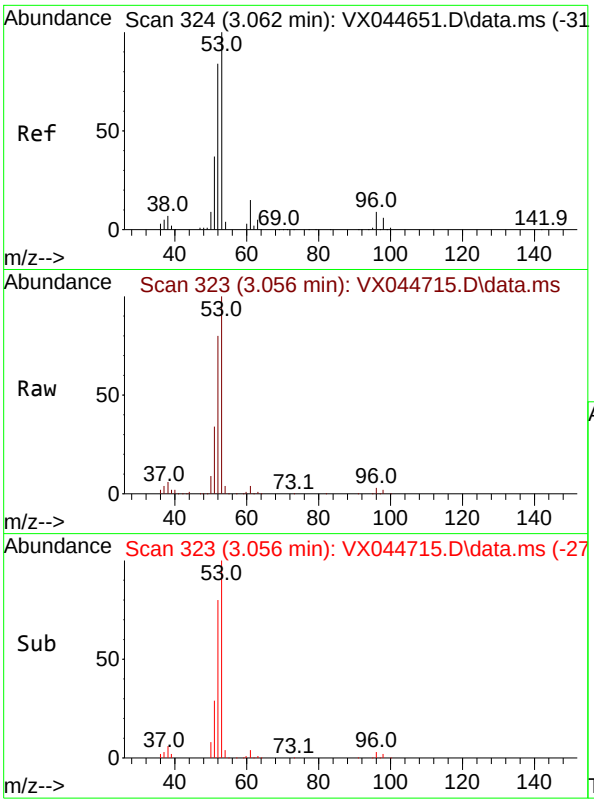




#14
Allyl chloride
Concen: 18.227 ug/l
RT: 2.654 min Scan# 257
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 41 Resp: 75257

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 64.4 | 54.9 | 82.3 |
| 76 | 34.9 | 28.4 | 42.6 |



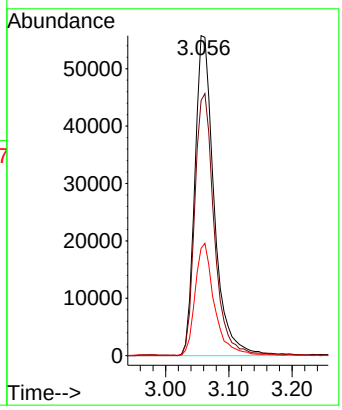


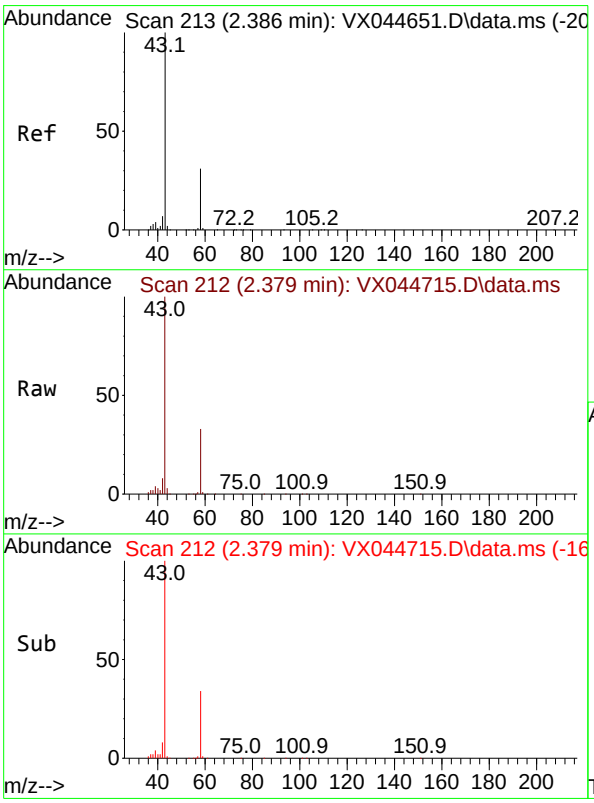

#15
Acrylonitrile
Concen: 99.311 ug/l
RT: 3.056 min Scan# 3
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 53 Resp: 118706

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.0 | 66.0 | 99.0 |
| 51 | 34.8 | 28.9 | 43.3 |

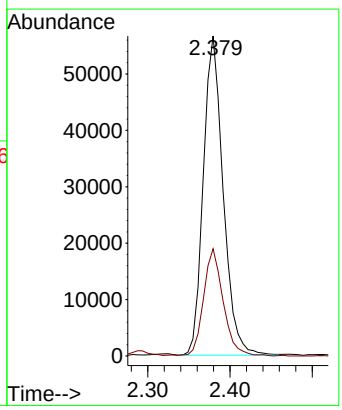


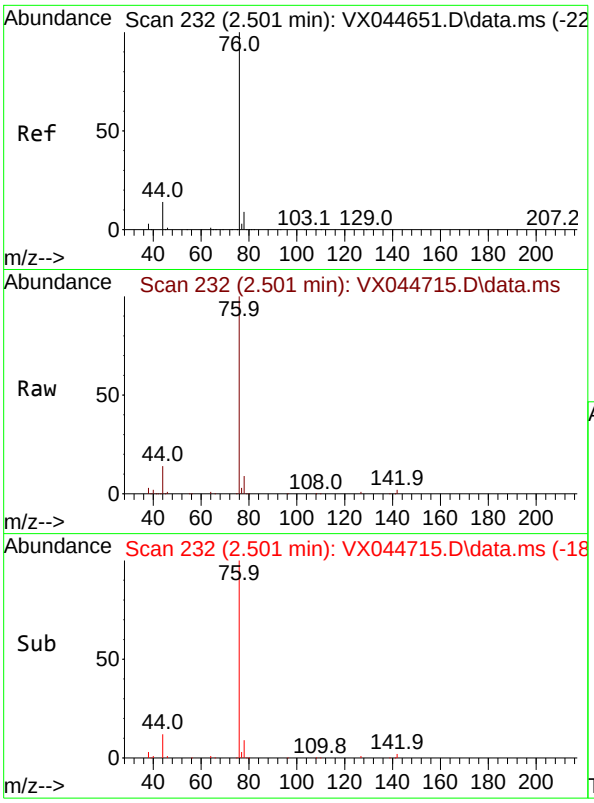




#16
Acetone
Concen: 87.792 ug/l
RT: 2.379 min Scan# 212
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 94951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 33.4 | 24.6 | 37.0 |



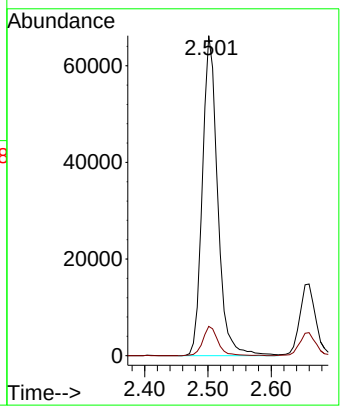


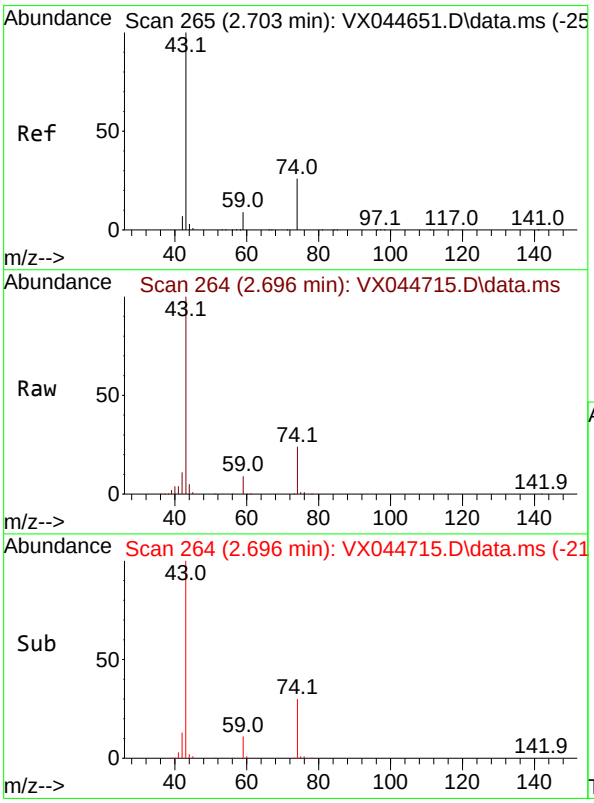

#17
Carbon Disulfide
Concen: 19.250 ug/l
RT: 2.501 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 76 Resp: 111388

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.1 | 7.1 | 10.7 |

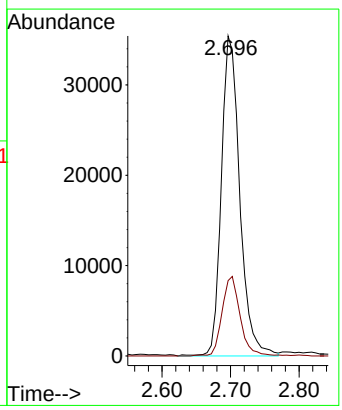


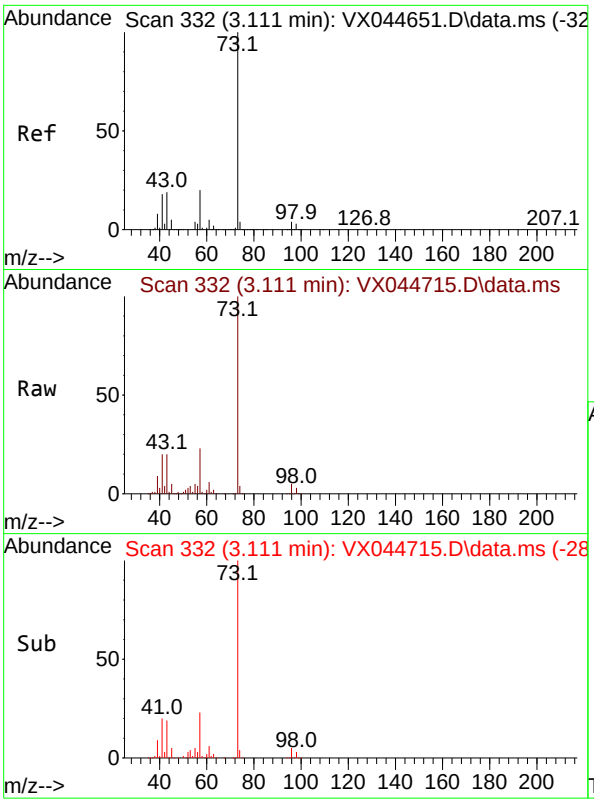




#18
Methyl Acetate
Concen: 19.791 ug/l
RT: 2.696 min Scan# 264
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 66037

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.4 | 19.8 | 29.8 |



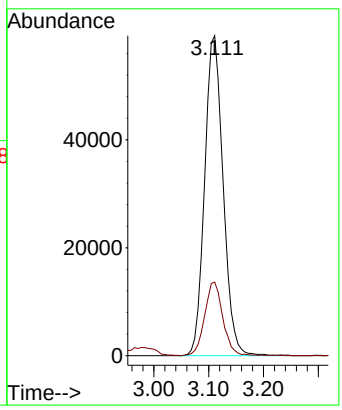


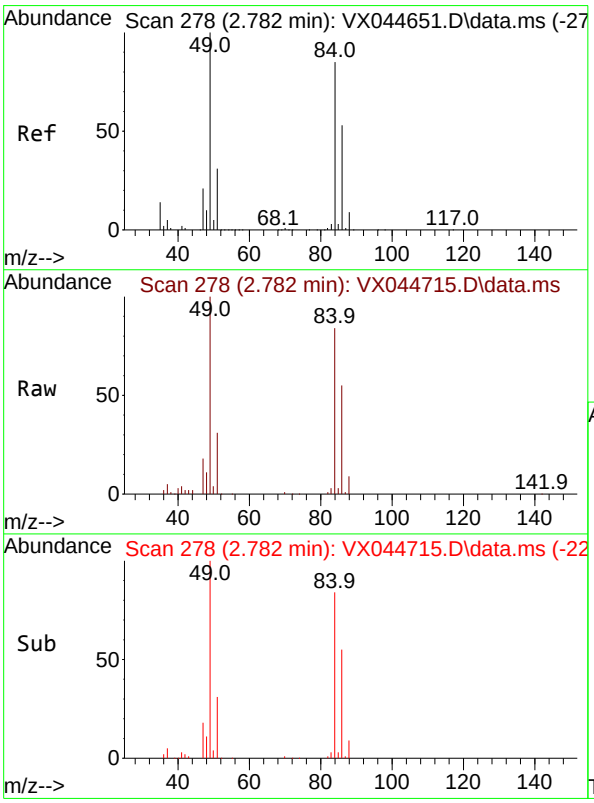

#19
Methyl tert-butyl Ether
Concen: 18.047 ug/l
RT: 3.111 min Scan# 3
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 73 Resp: 138618

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.9 | 17.4 | 26.0 |

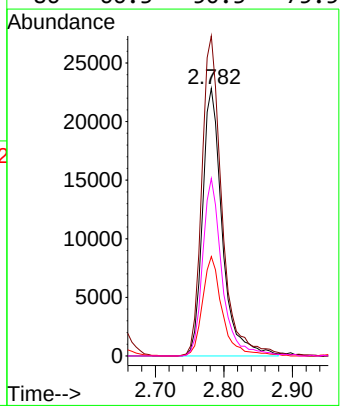


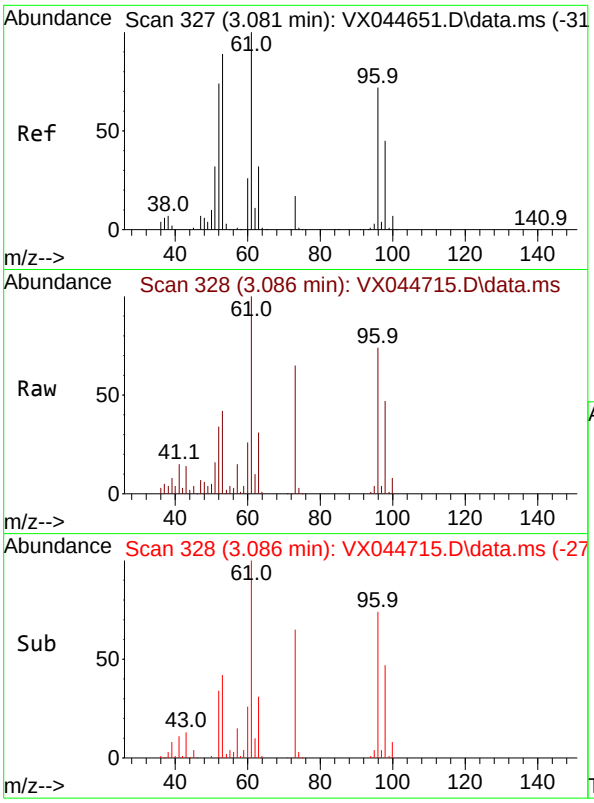




#20
Methylene Chloride
Concen: 18.162 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 84 Resp: 45743

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.6 | 94.2 | 141.4 |
| 51 | 37.1 | 28.8 | 43.2 |
| 86 | 66.3 | 50.3 | 75.5 |



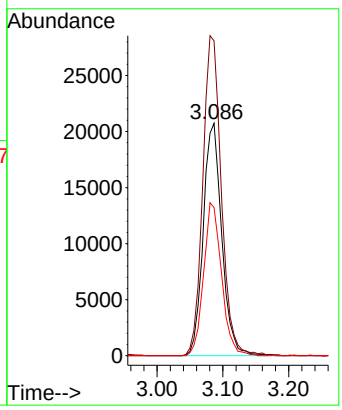


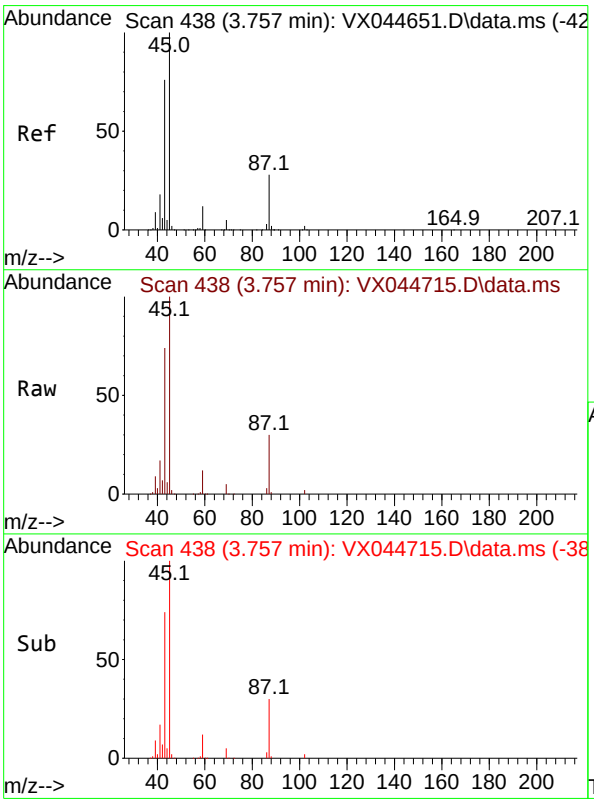

#21
trans-1,2-Dichloroethene
Concen: 18.364 ug/l
RT: 3.086 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 96 Resp: 40658

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.6 | 111.0 | 166.6 |
| 98 | 63.8 | 50.2 | 75.2 |

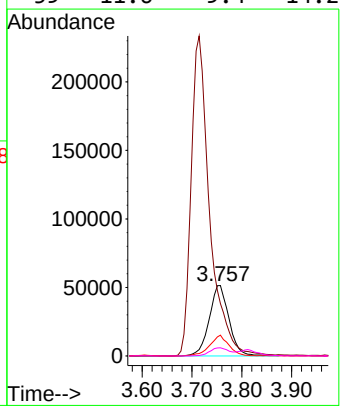


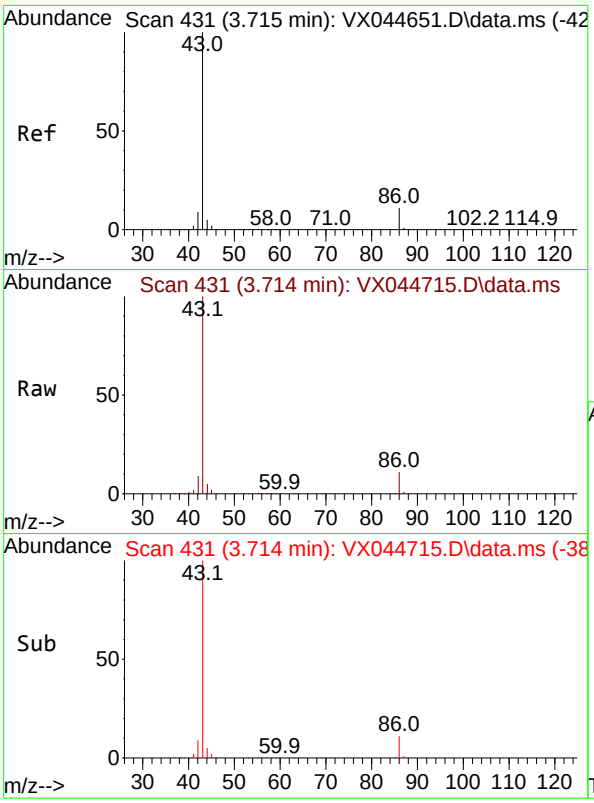




#22
Diisopropyl ether
Concen: 19.734 ug/l
RT: 3.757 min Scan# 438
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 45 Resp: 141633

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 73.2 | 61.0 | 91.6 |
| 87 | 29.6 | 22.7 | 34.1 |
| 59 | 11.6 | 9.4 | 14.2 |



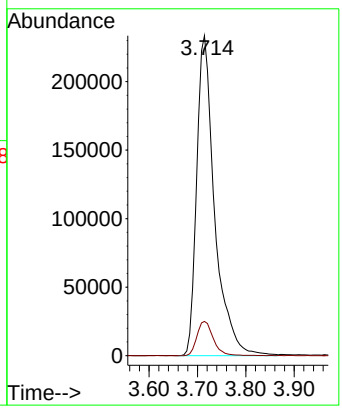


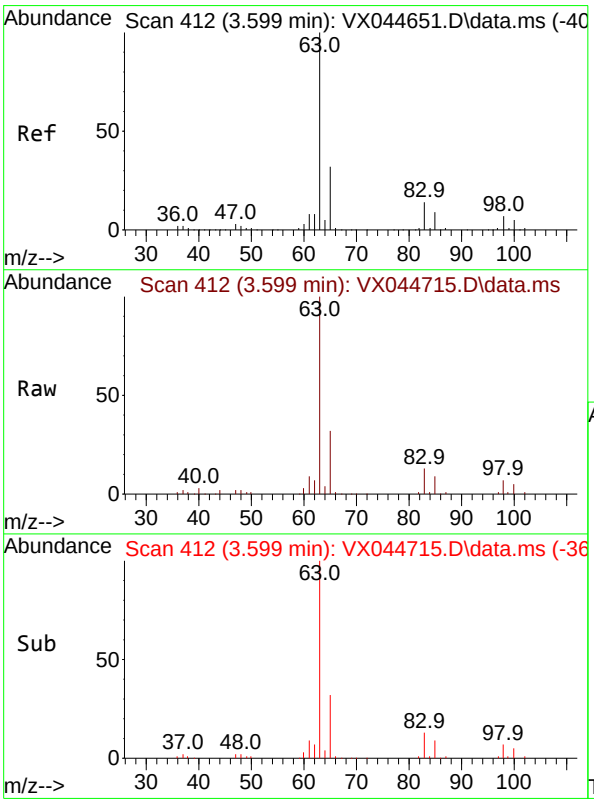

#23
Vinyl Acetate
Concen: 95.967 ug/l
RT: 3.714 min Scan# 4
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 43 Resp: 602846

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 10.7 | 8.9 | 13.3 |

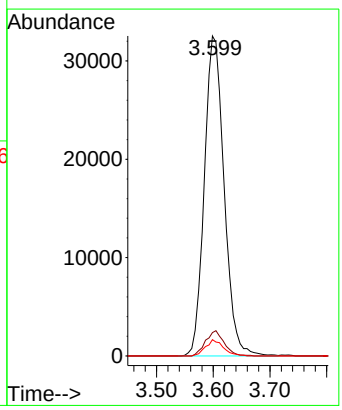


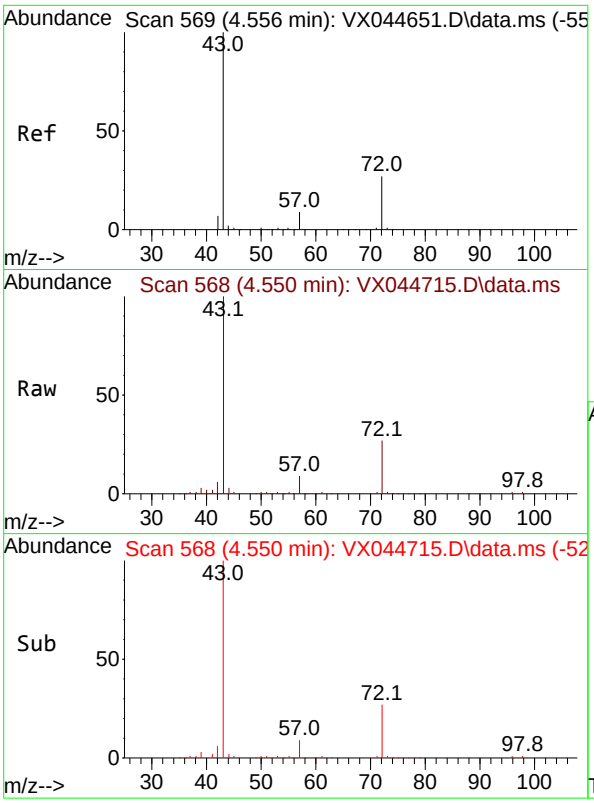




#24
1,1-Dichloroethane
Concen: 18.558 ug/l
RT: 3.599 min Scan# 412
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 63 Resp: 78982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.3 | 3.6 | 10.9 |
| 100 | 5.1 | 2.5 | 7.5 |



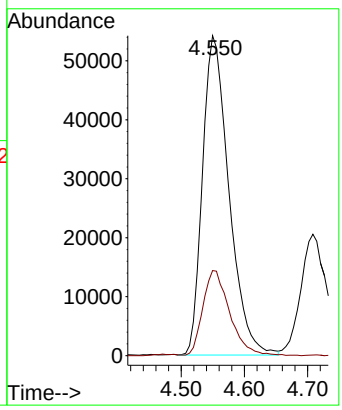


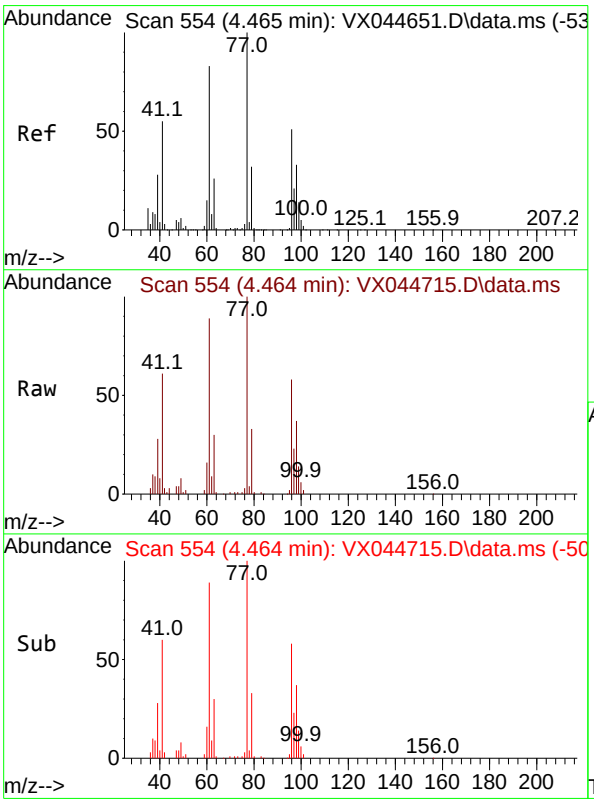

#25
2-Butanone
Concen: 98.011 ug/l
RT: 4.550 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 43 Resp: 157607

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 26.4 | 21.7 | 32.5 |

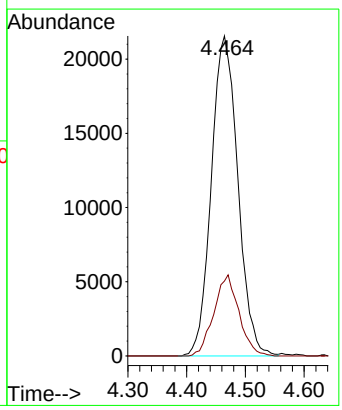


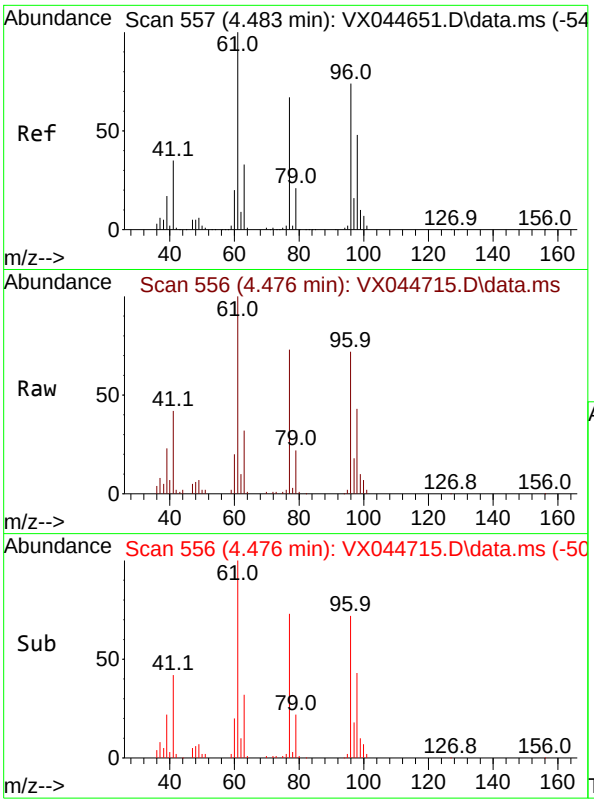




#26
2,2-Dichloropropane
Concen: 16.394 ug/l
RT: 4.464 min Scan# 554
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 77 Resp: 67624

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.0 | 10.9 | 32.6 |



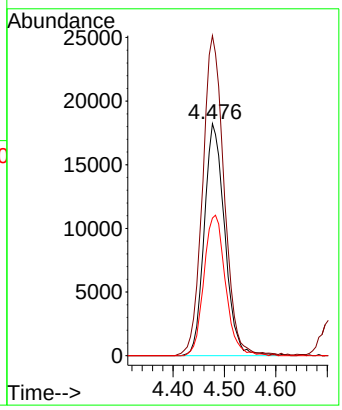


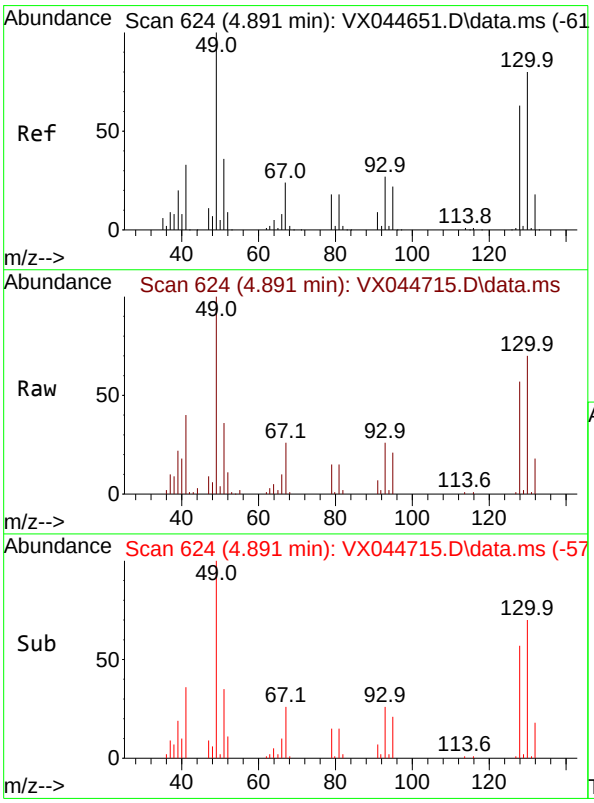

#27
cis-1,2-Dichloroethene
Concen: 18.038 ug/l
RT: 4.476 min Scan# 5
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 96 Resp: 50234

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 144.6 | 0.0 | 296.0 |
| 98 | 64.0 | 0.0 | 130.0 |

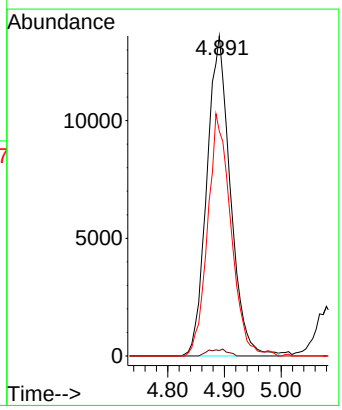


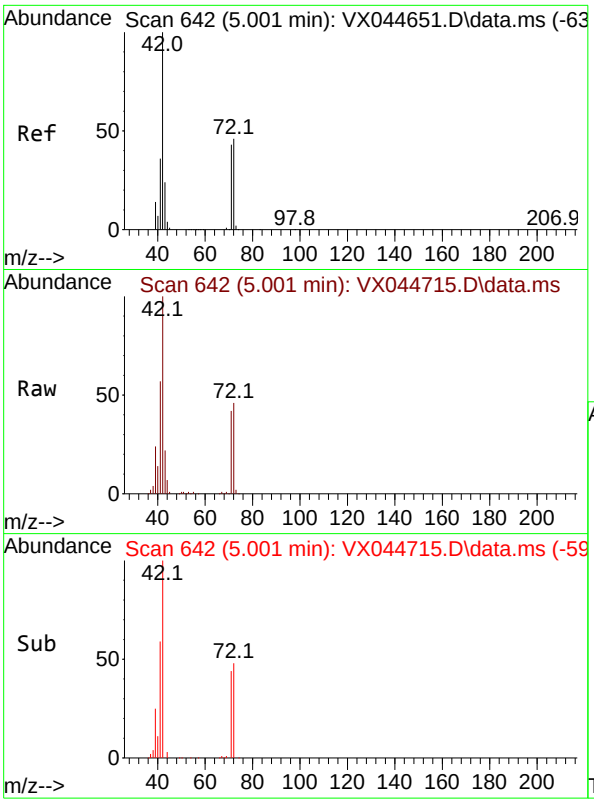




#28
Bromochloromethane
Concen: 19.697 ug/l
RT: 4.891 min Scan# 624
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 49 Resp: 39174

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.8 | 0.0 | 4.4 |
| 130 | 74.4 | 63.4 | 95.2 |



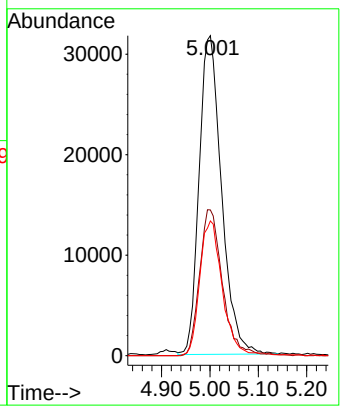


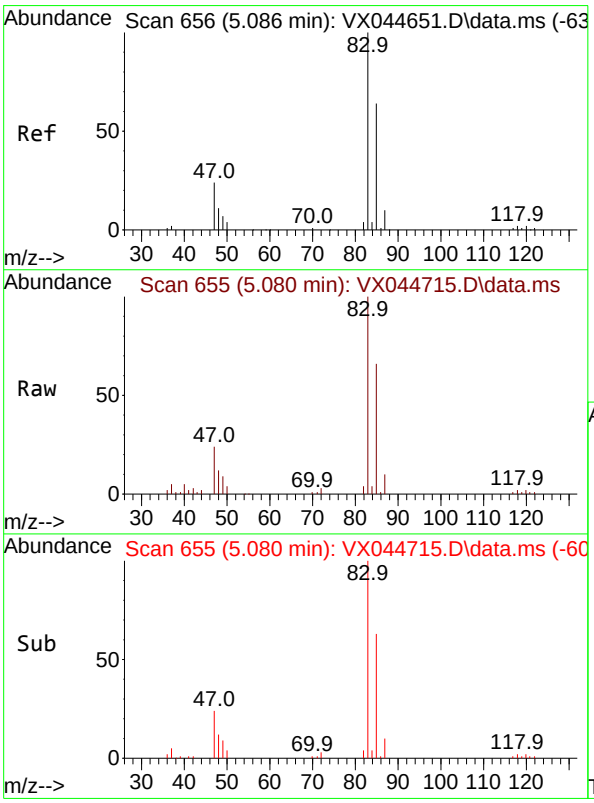

#29
Tetrahydrofuran
Concen: 98.627 ug/l
RT: 5.001 min Scan# 64
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 42 Resp: 102301

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.8 | 38.2 | 57.4 |
| 71 | 42.5 | 35.3 | 52.9 |

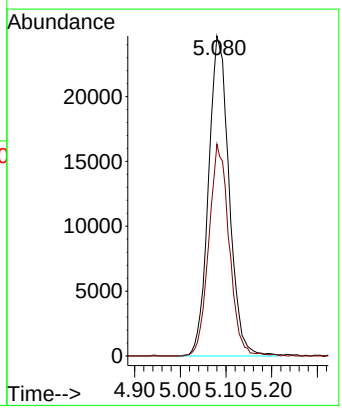


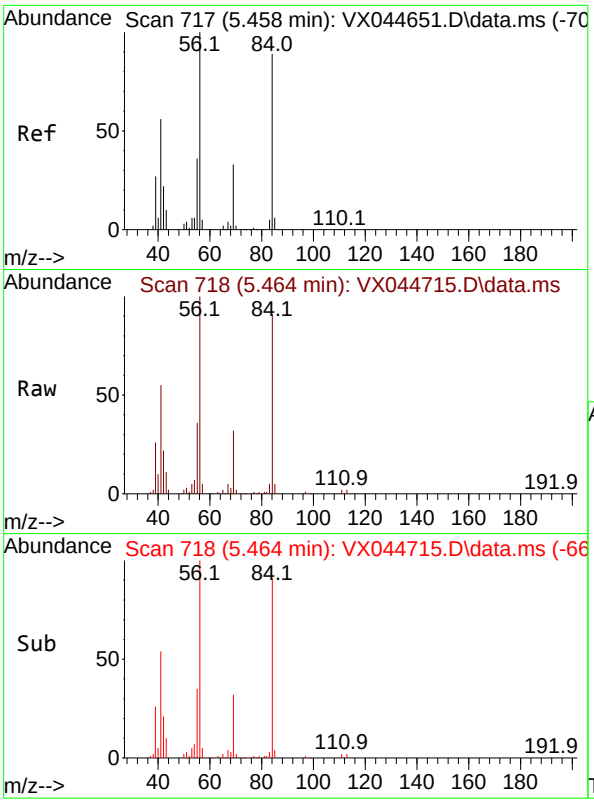




#30
Chloroform
Concen: 17.964 ug/l
RT: 5.080 min Scan# 655
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 83 Resp: 77159

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 66.1 | 51.2 | 76.8 |



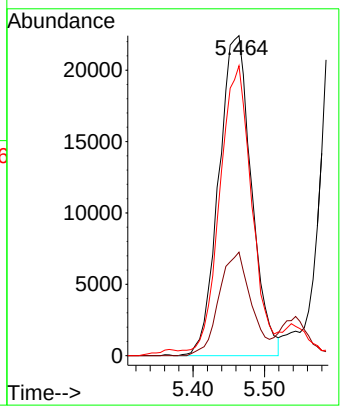


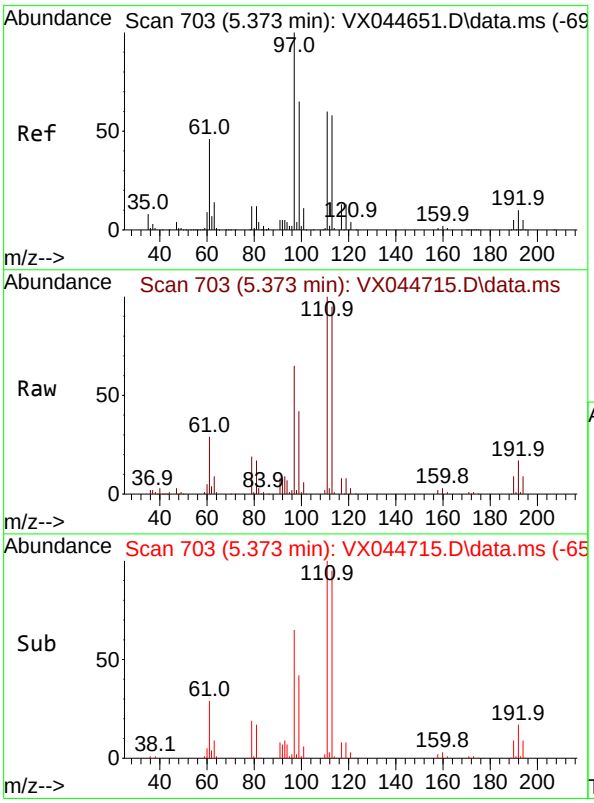

#31
Cyclohexane
Concen: 20.706 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 56 Resp: 71276

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 32.4 | 26.8 | 40.2 |
| 84 | 89.1 | 71.0 | 106.4 |

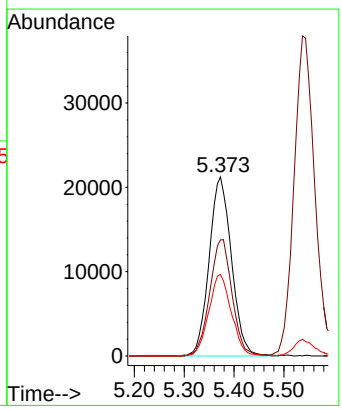


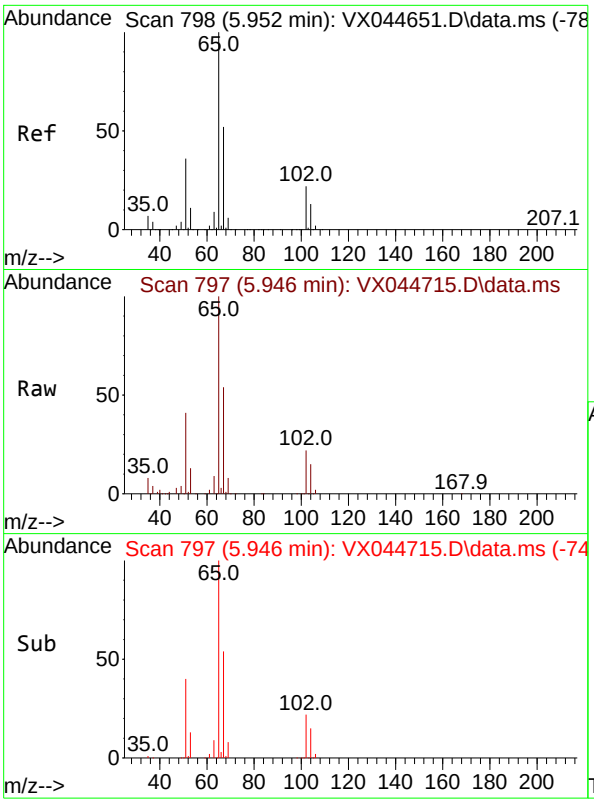




#32
1,1,1-Trichloroethane
Concen: 16.710 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 97 Resp: 65982

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 65.0 | 51.6 | 77.4 |
| 61 | 46.1 | 35.6 | 53.4 |



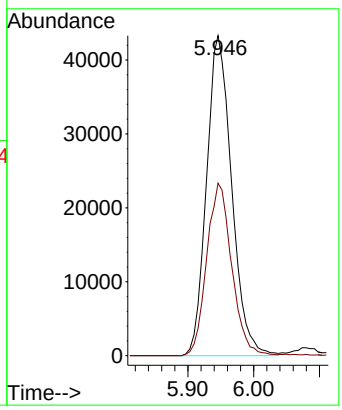


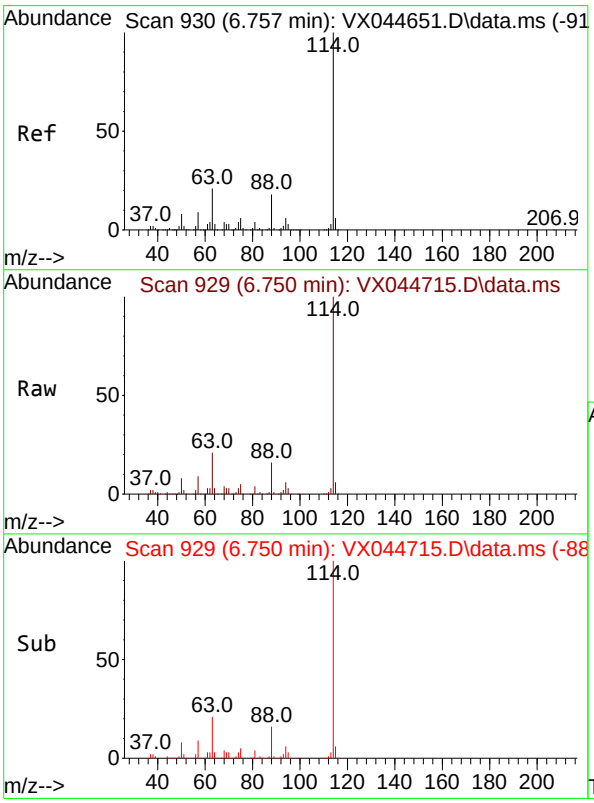

#33
1,2-Dichloroethane-d4
Concen: 42.108 ug/l
RT: 5.946 min Scan# 7
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 65 Resp: 115109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 103.4 |

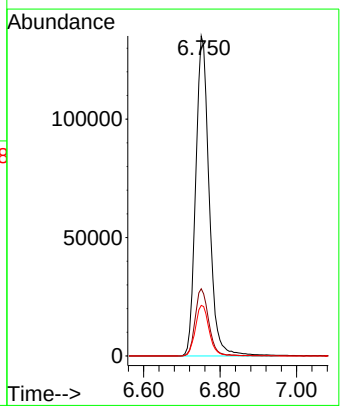


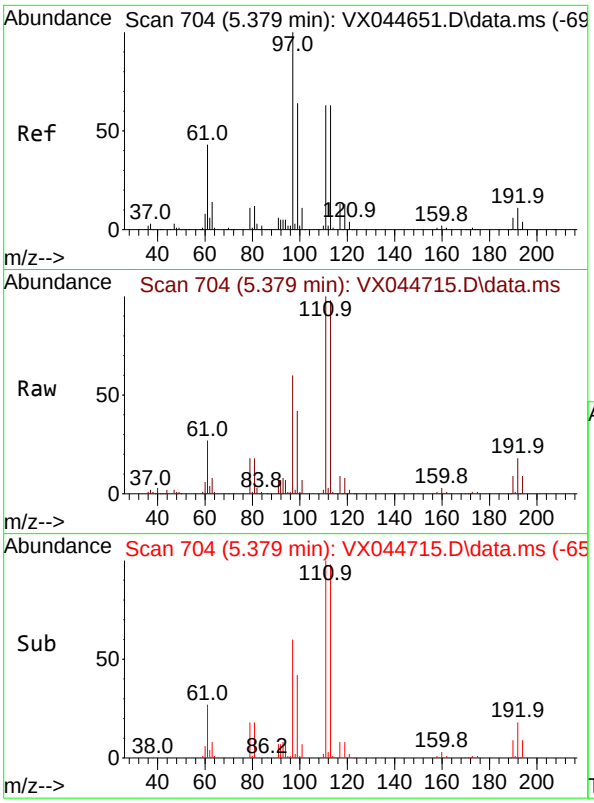




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.750 min Scan# 929
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:114 Resp: 329948

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.0 | 0.0 | 43.0 |
| 88 | 15.8 | 0.0 | 35.4 |



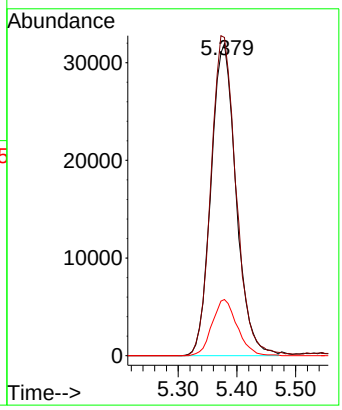


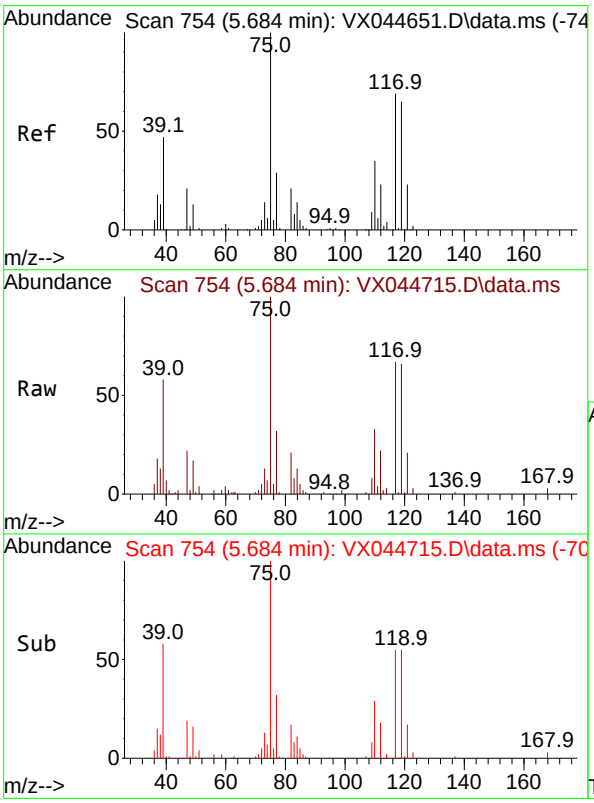

#35
Dibromofluoromethane
Concen: 45.125 ug/l
RT: 5.379 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:113 Resp: 94586

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.9 | 81.6 | 122.4 |
| 192 | 18.1 | 14.4 | 21.6 |

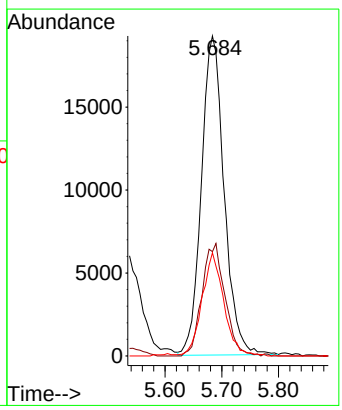


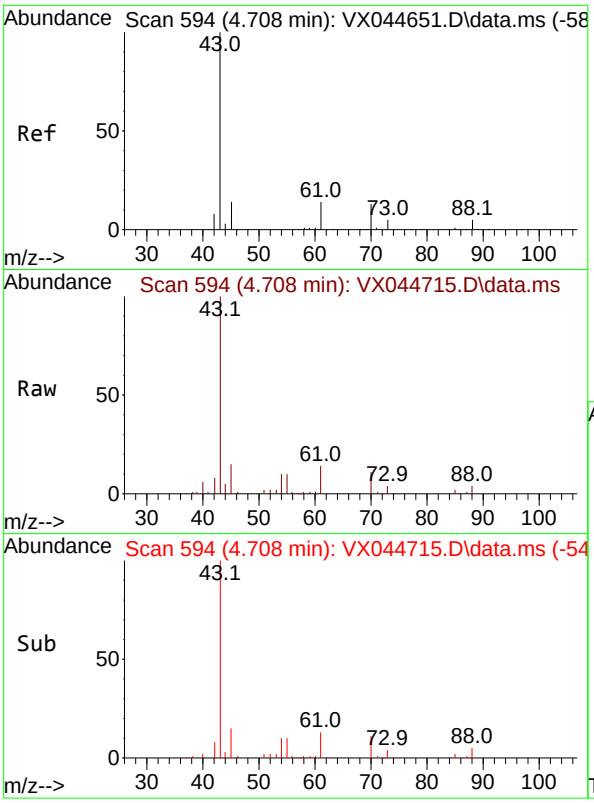




#36
1,1-Dichloropropene
Concen: 18.373 ug/l
RT: 5.684 min Scan# 754
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 75 Resp: 53609

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.5 | 17.9 | 53.8 |
| 77 | 31.1 | 24.5 | 36.7 |



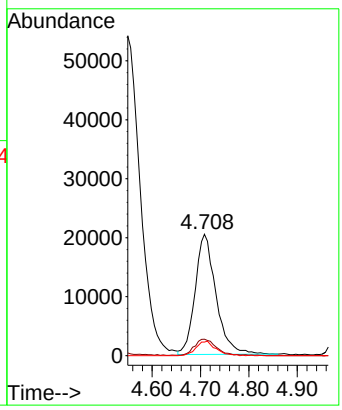


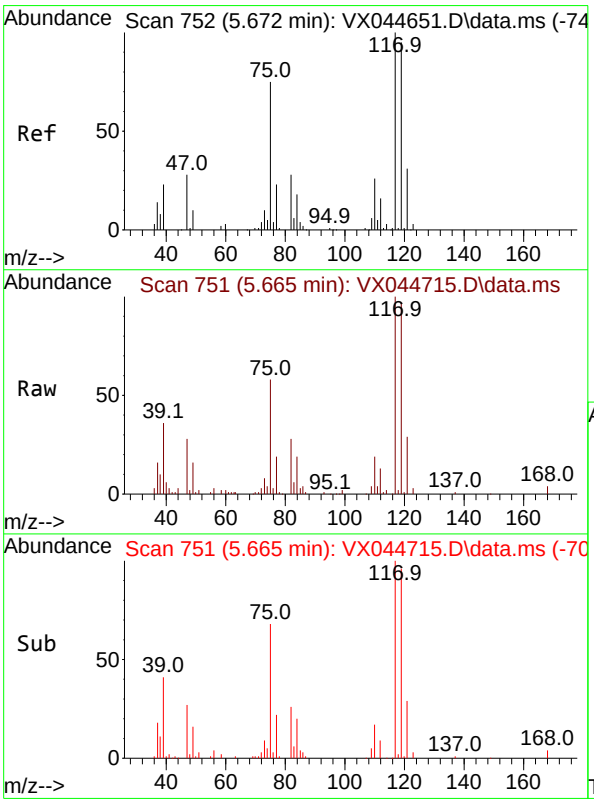

#37
Ethyl Acetate
Concen: 19.668 ug/l
RT: 4.708 min Scan# 5
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 43 Resp: 61115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 14.9 | 10.9 | 16.3 |
| 70 | 11.4 | 10.1 | 15.1 |

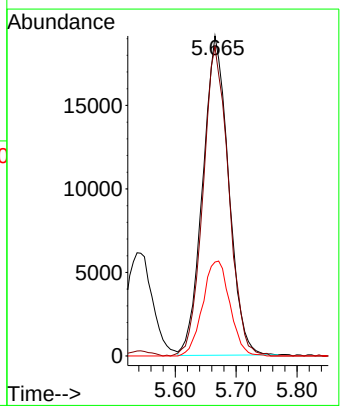


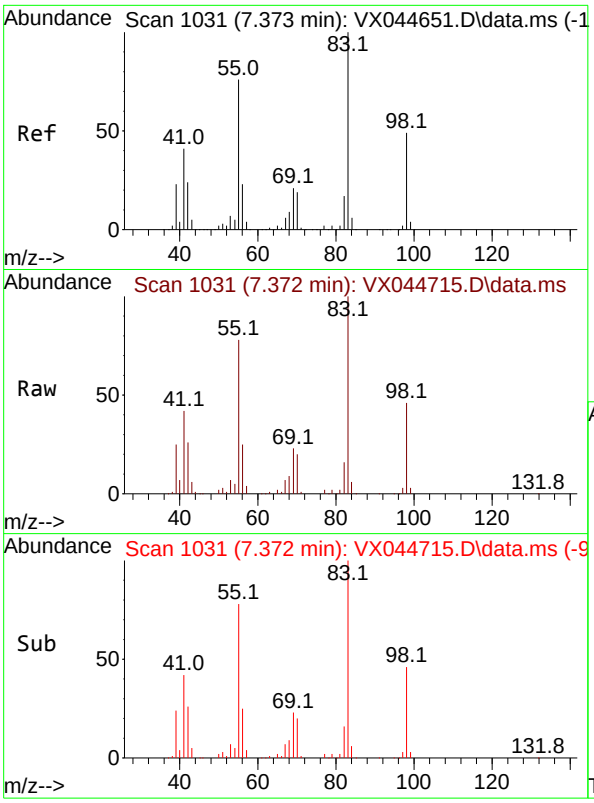




#38
Carbon Tetrachloride
Concen: 17.165 ug/l
RT: 5.665 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:117 Resp: 56337

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 96.9 | 76.0 | 114.0 |
| 121 | 29.5 | 24.6 | 36.8 |



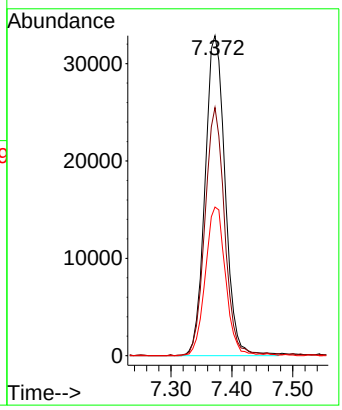


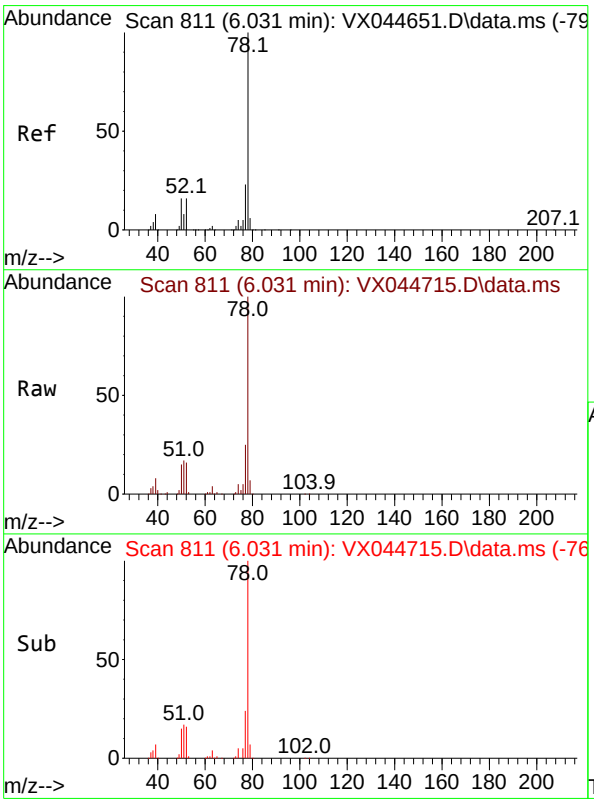

#39
Methylcyclohexane
Concen: 19.415 ug/l
RT: 7.372 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 83 Resp: 75204

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 77.3 | 60.5 | 90.7 |
| 98 | 46.5 | 39.0 | 58.4 |

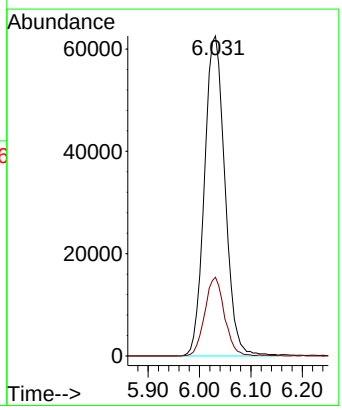


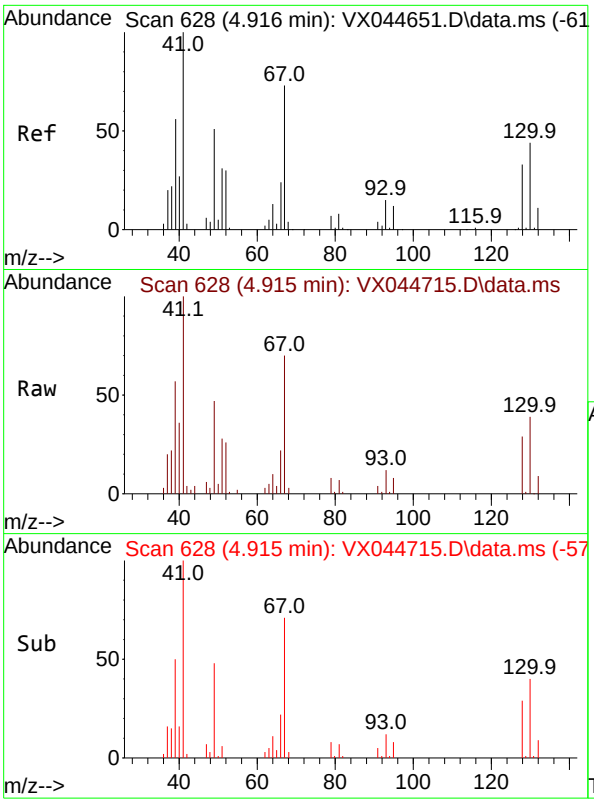




#40
Benzene
Concen: 19.166 ug/l
RT: 6.031 min Scan# 811
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 78 Resp: 173290

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 24.6 | 18.7 | 28.1 |



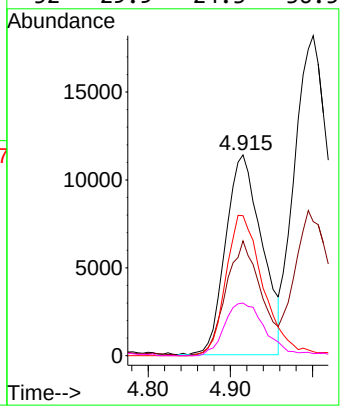


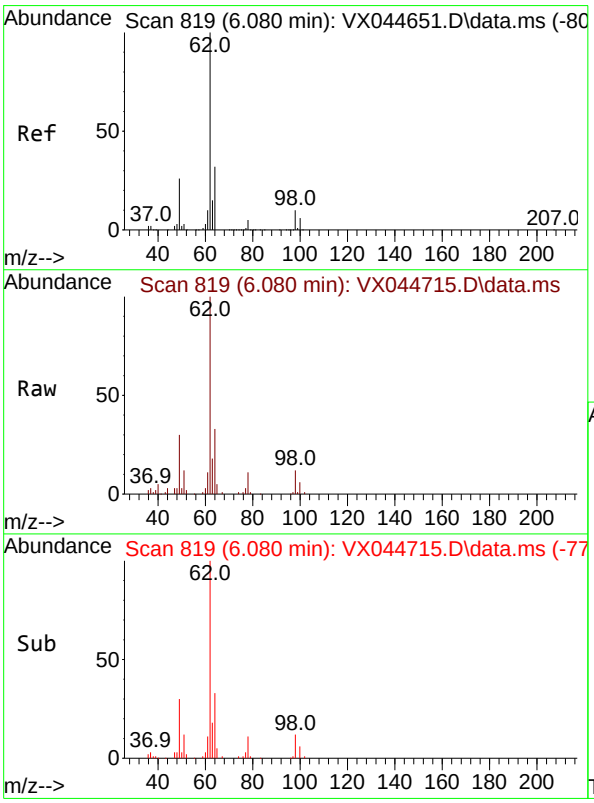

#41
Methacrylonitrile
Concen: 19.259 ug/l
RT: 4.915 min Scan# 6
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 41 Resp: 34872

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 55.7 | 44.4 | 66.6 |
| 67 | 72.3 | 60.6 | 90.8 |
| 52 | 29.9 | 24.3 | 36.5 |

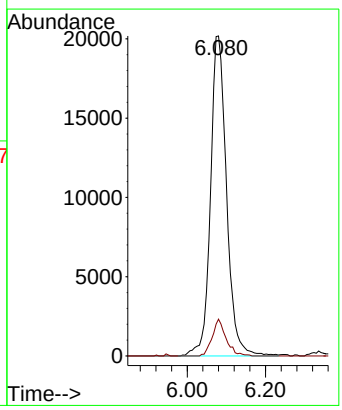


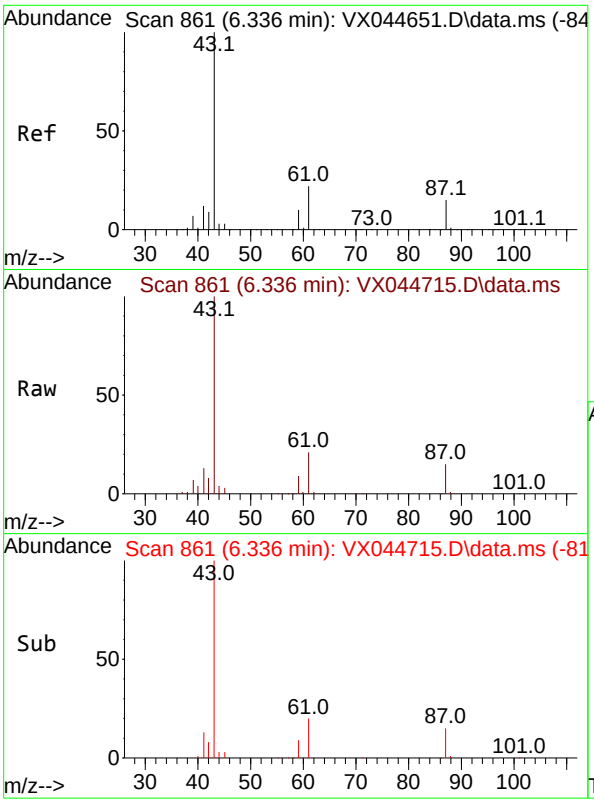




#42
1,2-Dichloroethane
Concen: 17.395 ug/l
RT: 6.080 min Scan# 819
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 62 Resp: 57405

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.9 | 0.0 | 19.4 |



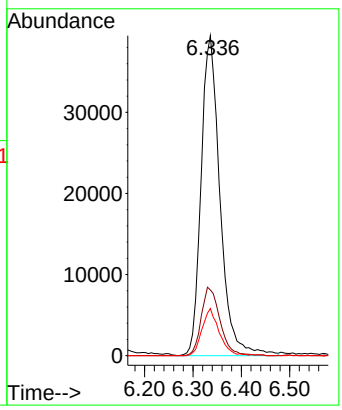


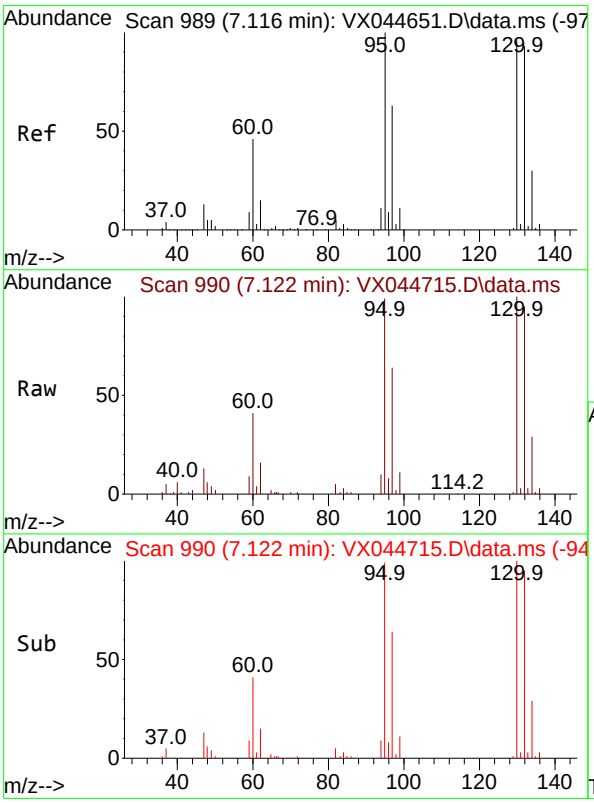

#43
Isopropyl Acetate
Concen: 18.779 ug/l
RT: 6.336 min Scan# 8
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 43 Resp: 107342

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.3 | 16.6 | 24.8 |
| 87 | 13.3 | 11.0 | 16.6 |

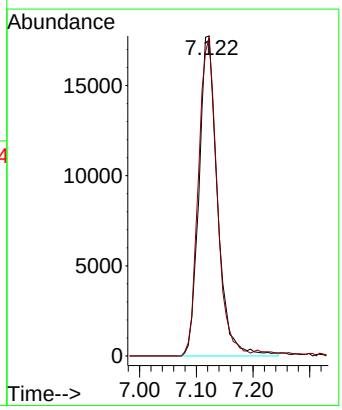


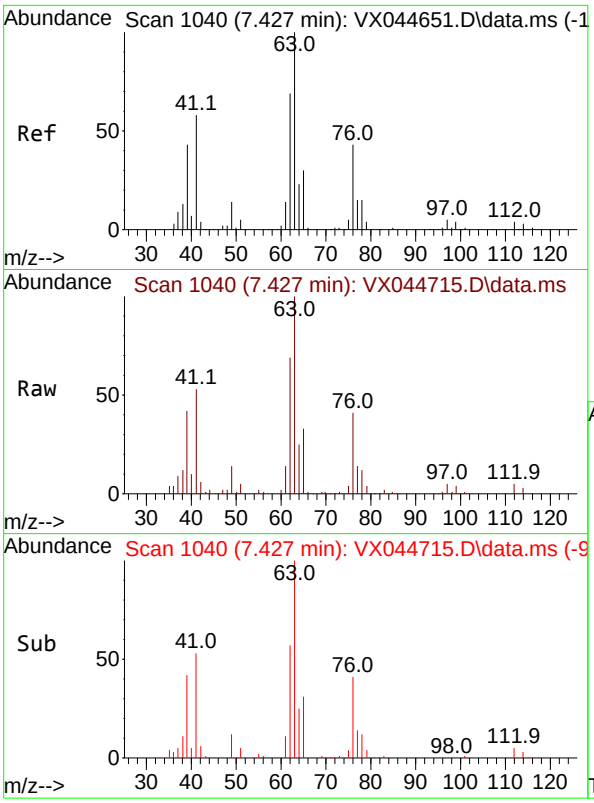




#44
Trichloroethene
Concen: 18.461 ug/l
RT: 7.122 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:130 Resp: 40128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 99.4 | 0.0 | 208.2 |



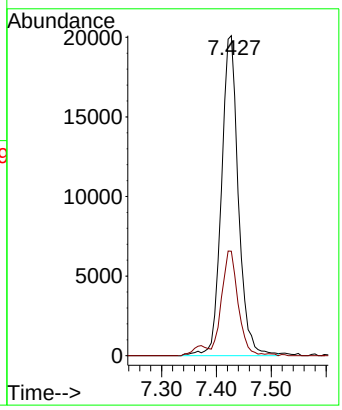


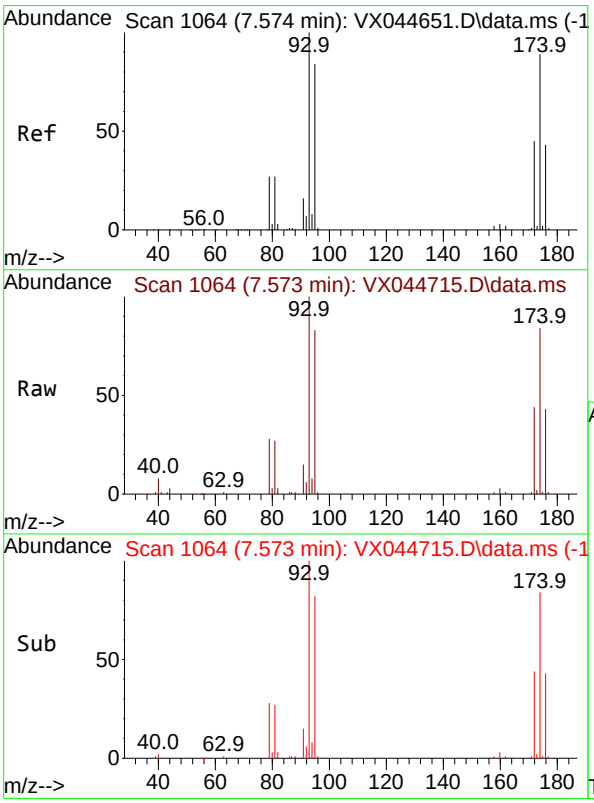

#45
1,2-Dichloropropane
Concen: 19.056 ug/l
RT: 7.427 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 63 Resp: 43371

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 32.6 | 24.2 | 36.2 |

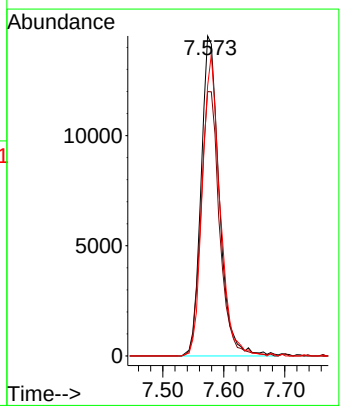


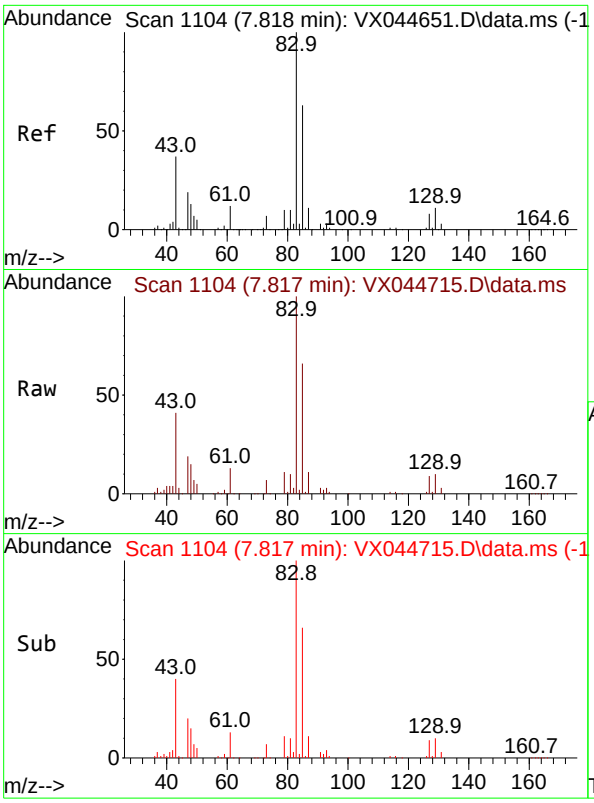




#46
Dibromomethane
Concen: 17.427 ug/l
RT: 7.573 min Scan# 1064
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 93 Resp: 30193

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 84.6 | 66.4 | 99.6 |
| 174 | 90.9 | 72.0 | 108.0 |



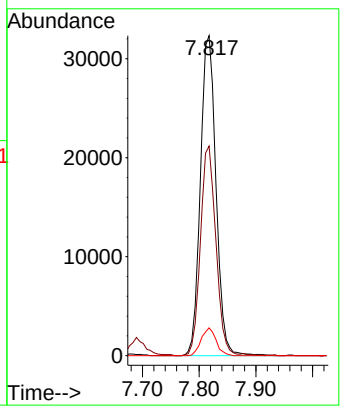


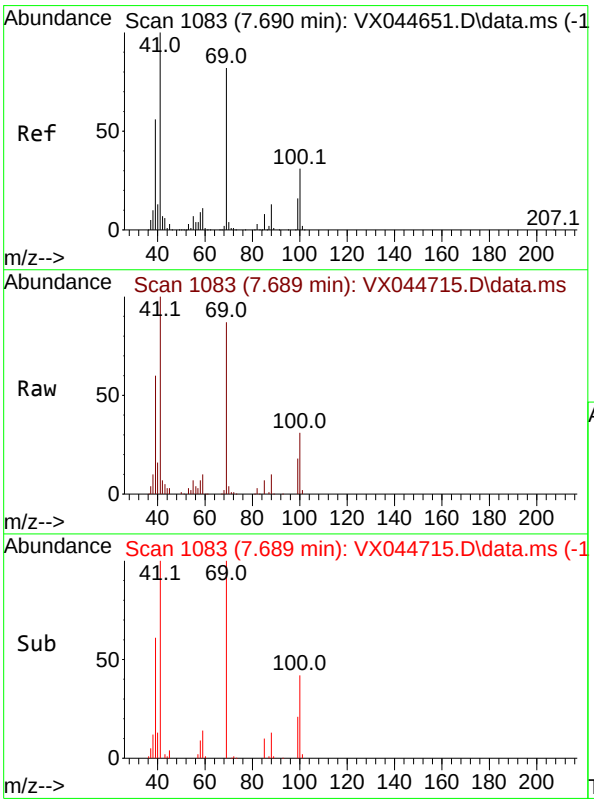

#47
Bromodichloromethane
Concen: 17.405 ug/l
RT: 7.817 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 83 Resp: 61842

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 65.5 | 50.1 | 75.1 |
| 127 | 8.7 | 6.5 | 9.7 |

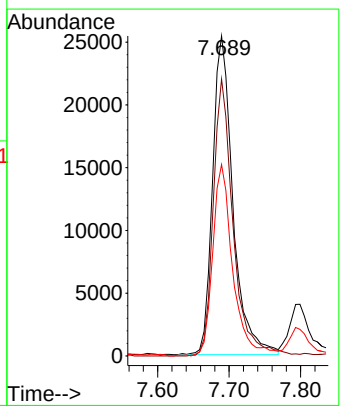


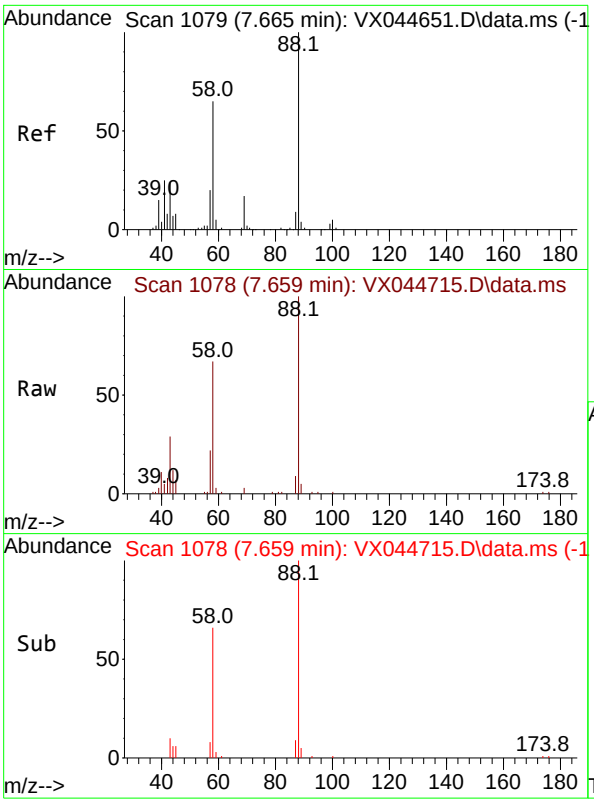




#48
Methyl methacrylate
Concen: 18.924 ug/l
RT: 7.689 min Scan# 1083
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 41 Resp: 50212

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 84.8 | 66.8 | 100.2 |
| 39 | 59.1 | 47.4 | 71.0 |



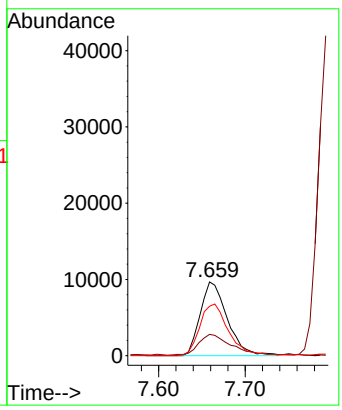


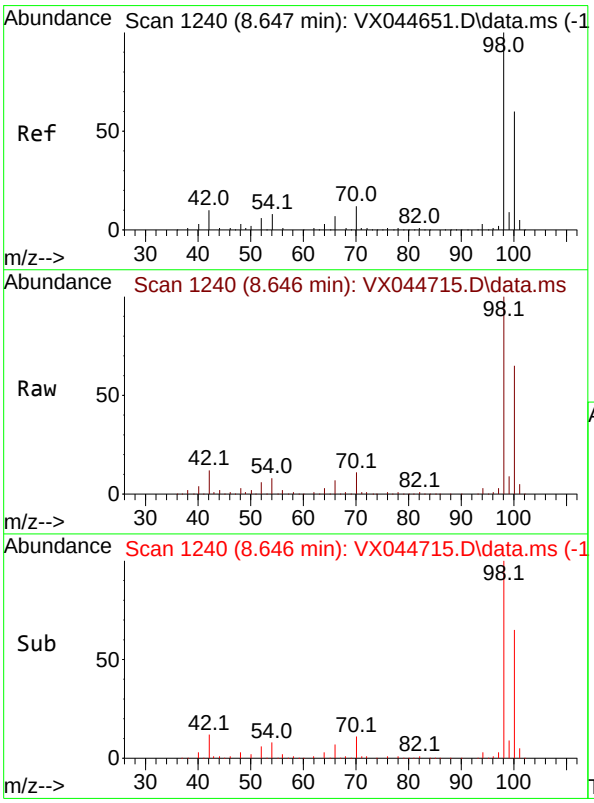

#49
1,4-Dioxane
Concen: 379.274 ug/l
RT: 7.659 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 88 Resp: 20996

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 34.5 | 27.0 | 40.4 |
| 58 | 74.0 | 55.8 | 83.8 |

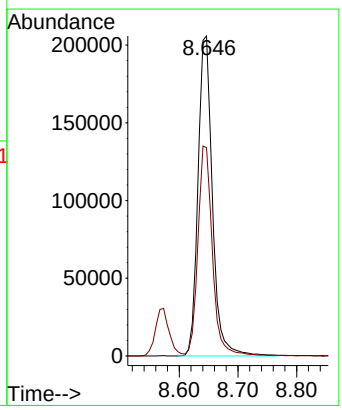


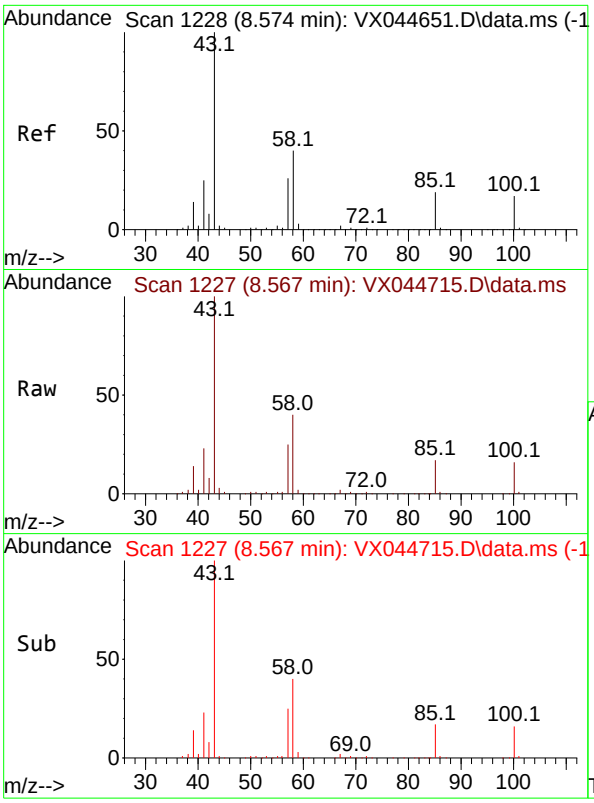




#50
Toluene-d8
Concen: 48.069 ug/l
RT: 8.646 min Scan# 1240
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 98 Resp: 351325

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 65.9 | 53.2 | 79.8 |



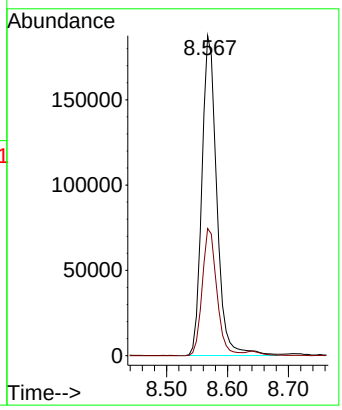


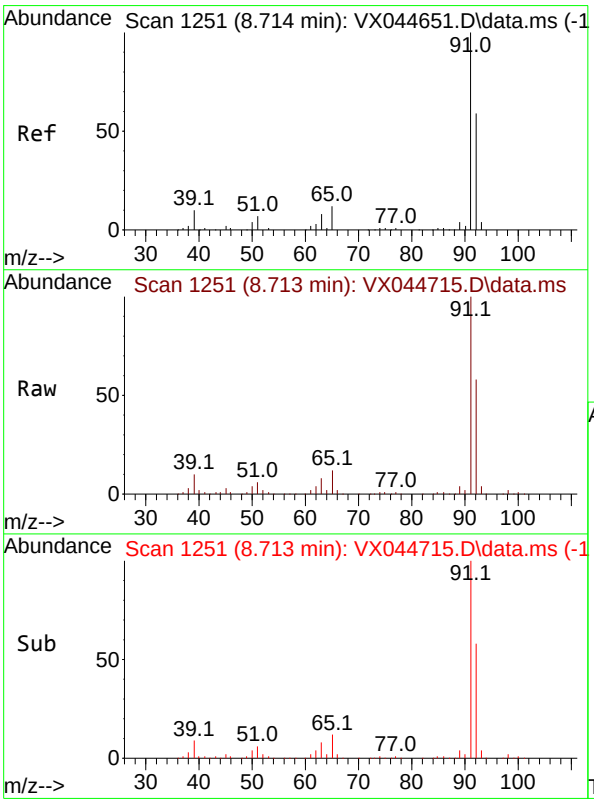

#51
4-Methyl-2-Pentanone
Concen: 101.217 ug/l
RT: 8.567 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 43 Resp: 319737

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 38.9 | 31.9 | 47.9 |

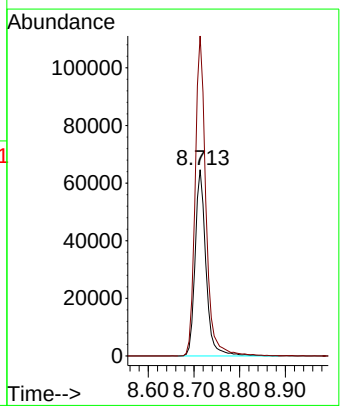


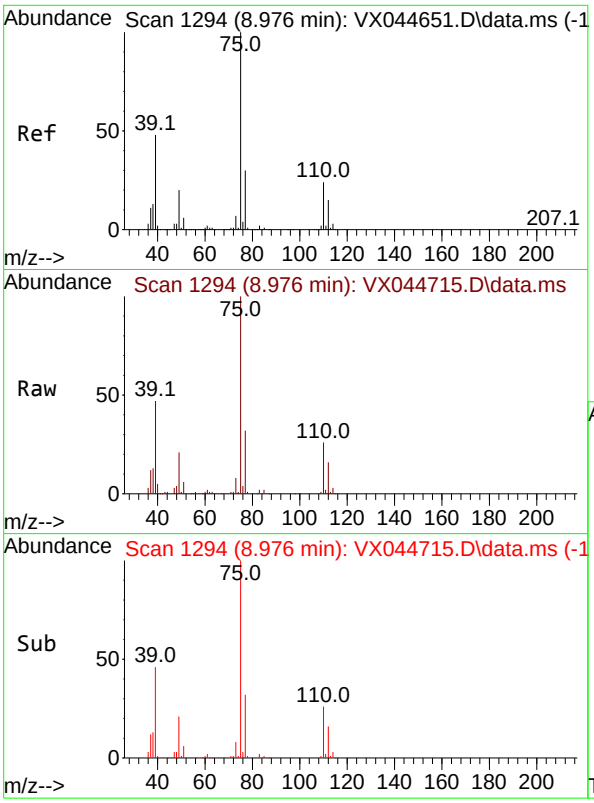




#52
Toluene
Concen: 19.242 ug/l
RT: 8.713 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 92 Resp: 106487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 135.7 | 203.5 |



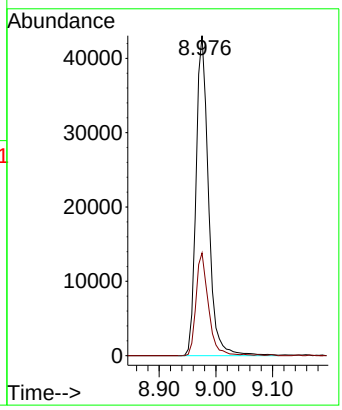


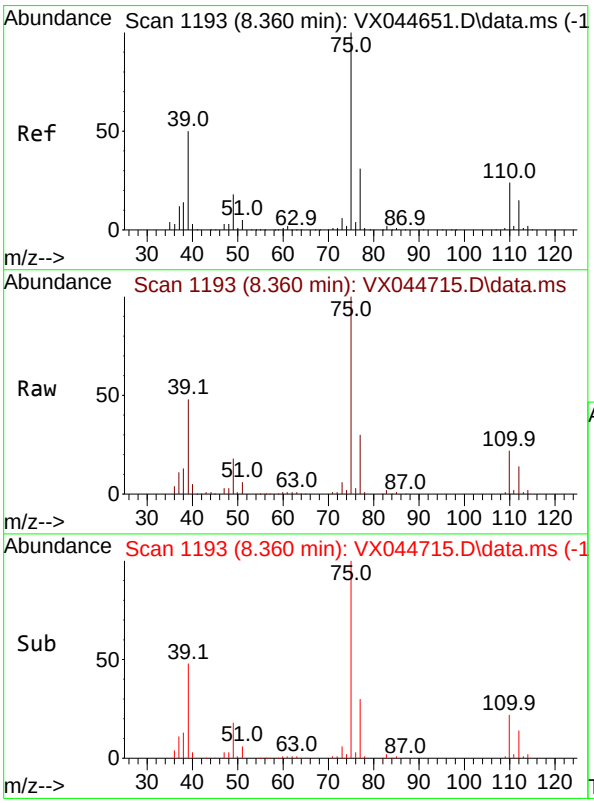

#53
t-1,3-Dichloropropene
Concen: 17.958 ug/l
RT: 8.976 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 75 Resp: 65922

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 32.1 | 24.4 | 36.6 |

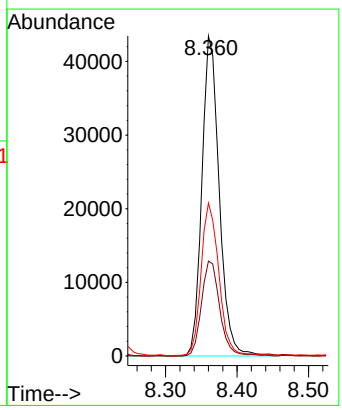


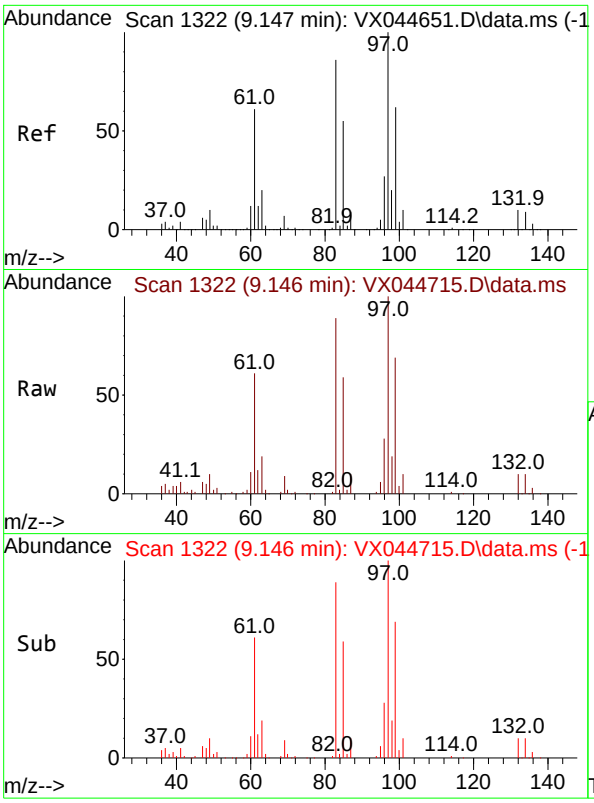




#54
cis-1,3-Dichloropropene
Concen: 18.406 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 75 Resp: 73264

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 29.7 | 25.1 | 37.7 |
| 39 | 47.6 | 40.3 | 60.5 |



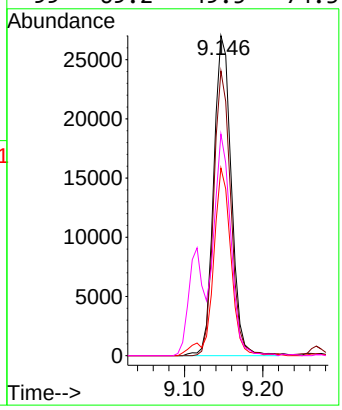


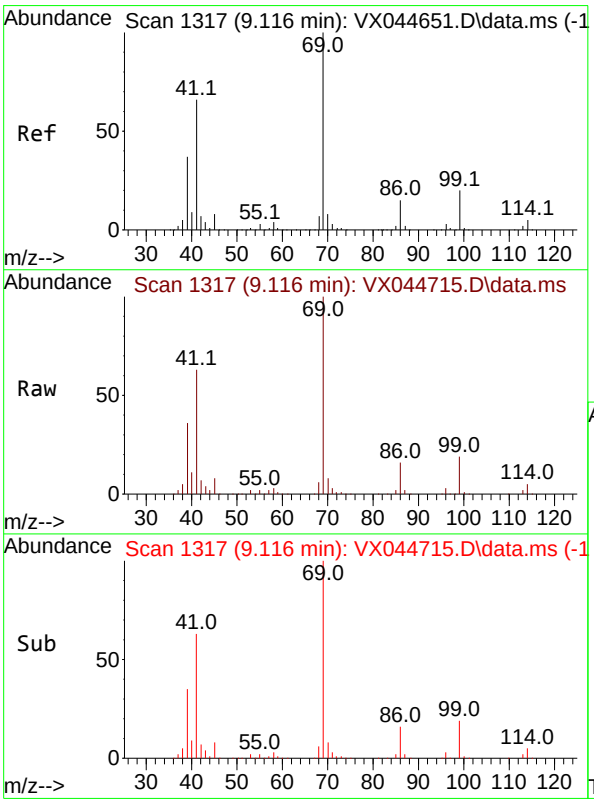

#55
1,1,2-Trichloroethane
Concen: 18.940 ug/l
RT: 9.146 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 97 Resp: 42407

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 89.0 | 68.8 | 103.2 |
| 85 | 58.7 | 43.7 | 65.5 |
| 99 | 69.2 | 49.5 | 74.3 |

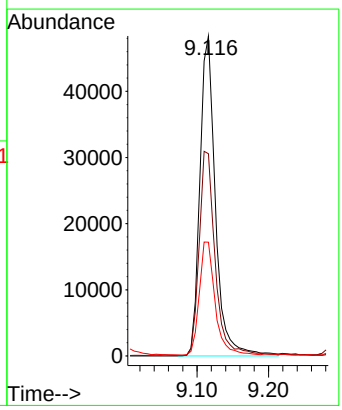


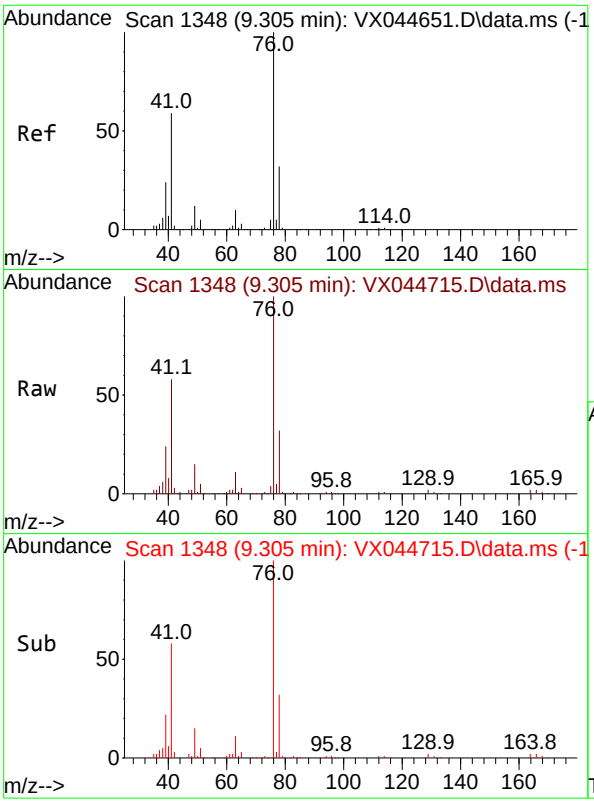




#56
Ethyl methacrylate
Concen: 18.998 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 69 Resp: 73137

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 65.7 | 53.2 | 79.8 |
| 39 | 35.9 | 30.2 | 45.2 |



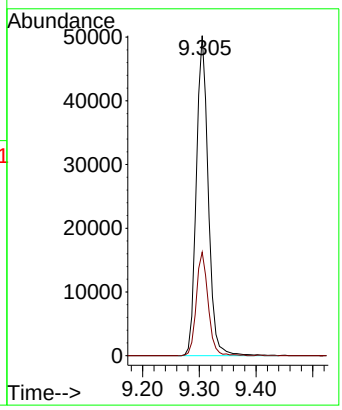


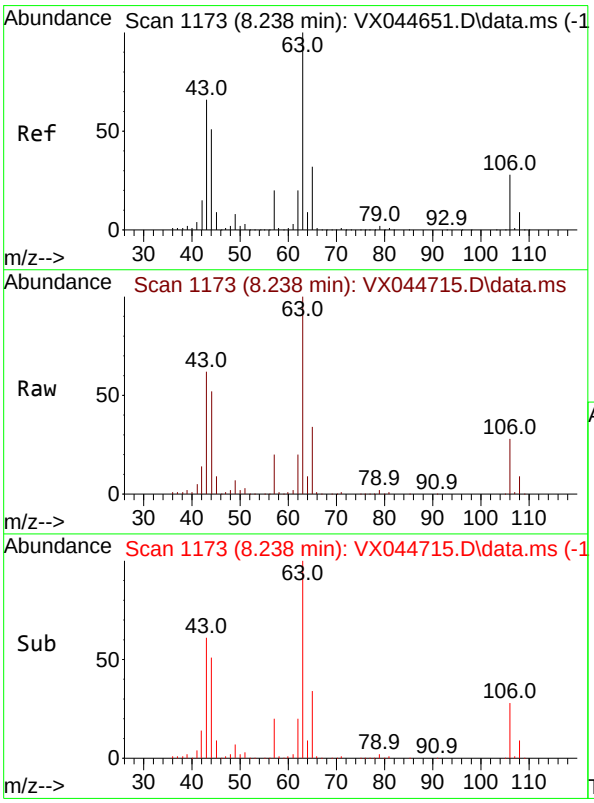

#57
1,3-Dichloropropane
Concen: 19.201 ug/l
RT: 9.305 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 76 Resp: 73209

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.0 | 26.0 | 39.0 |

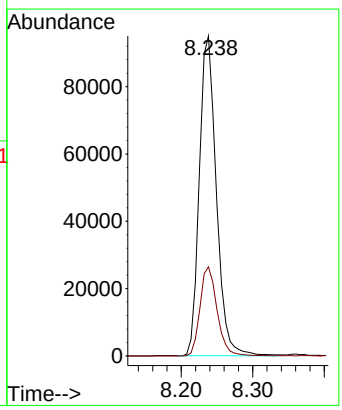


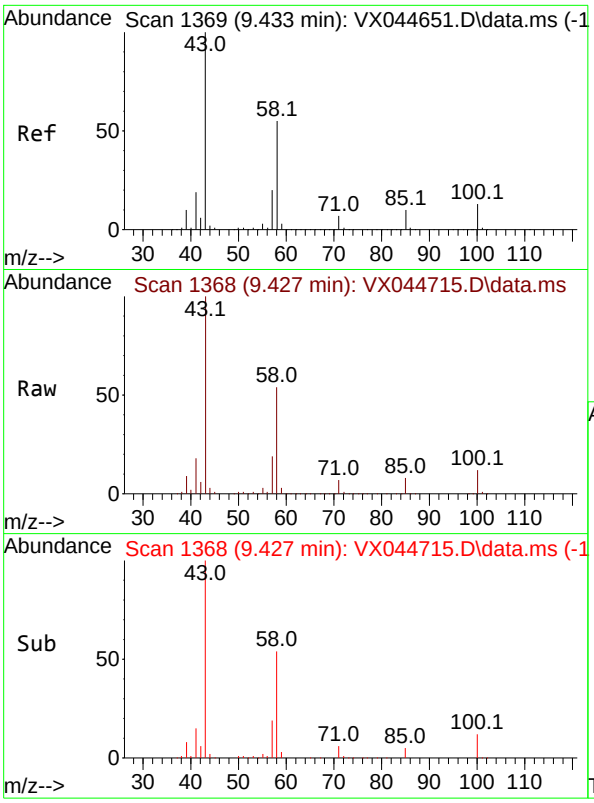




#58
2-Chloroethyl Vinyl ether
Concen: 83.152 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 63 Resp: 157160

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 28.0 | 23.0 | 34.6 |



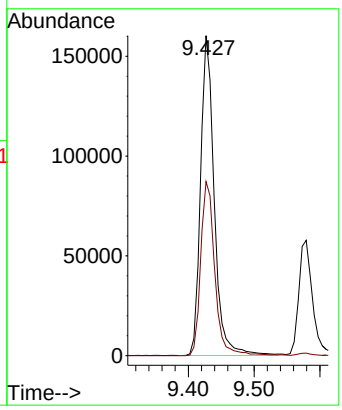


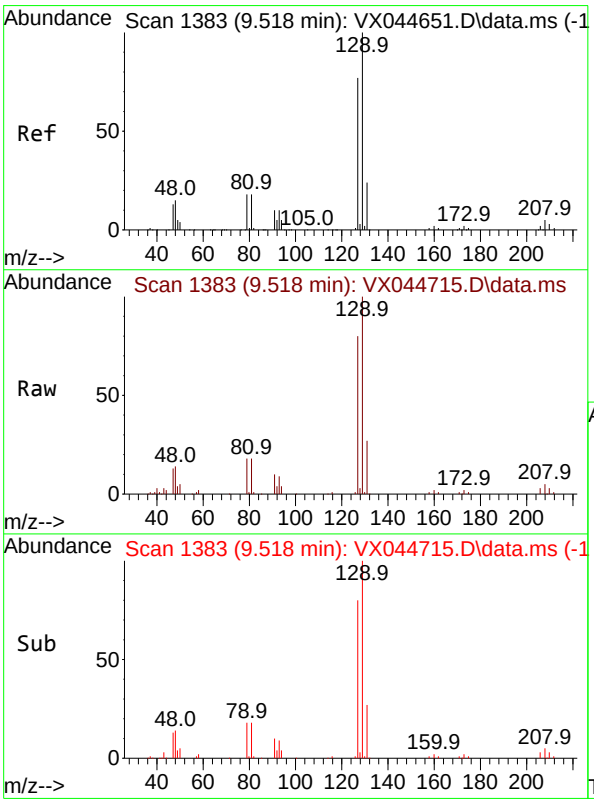

#59
2-Hexanone
Concen: 99.695 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 43 Resp: 231694

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 56.2 | 27.8 | 83.3 |

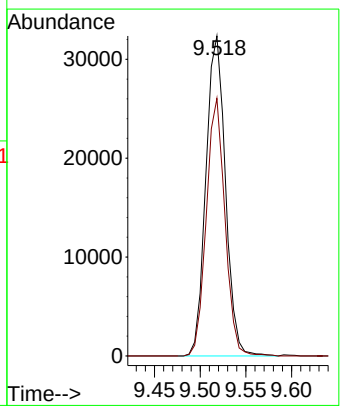


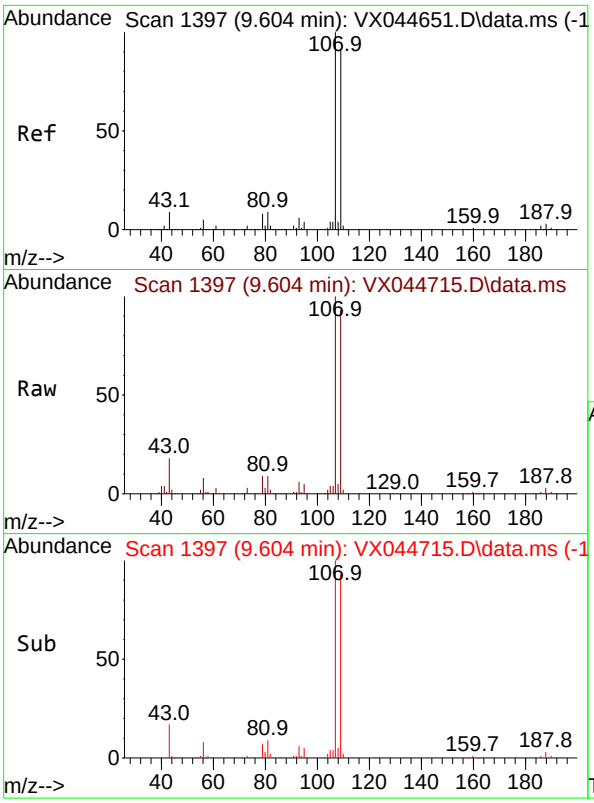




#60
Dibromochloromethane
Concen: 18.246 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:129 Resp: 47950

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 76.9 | 38.5 | 115.5 |



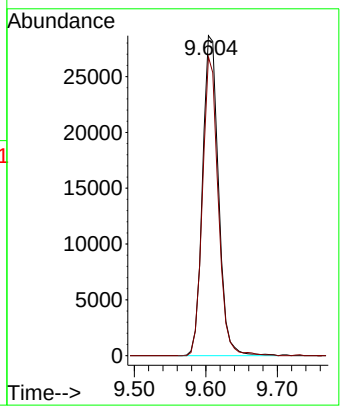


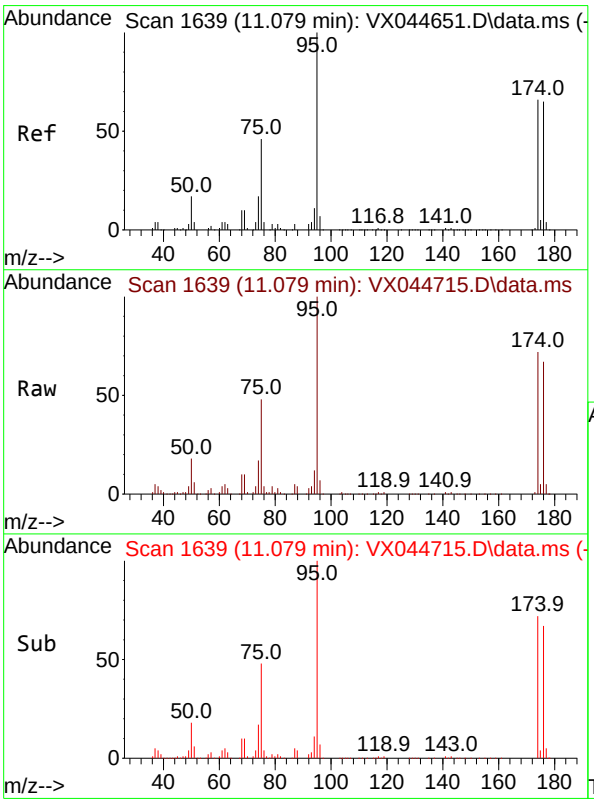

#61
1,2-Dibromoethane
Concen: 18.938 ug/l
RT: 9.604 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:107 Resp: 44437

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 91.8 | 75.3 | 112.9 |

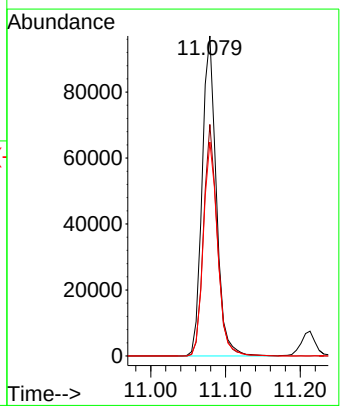


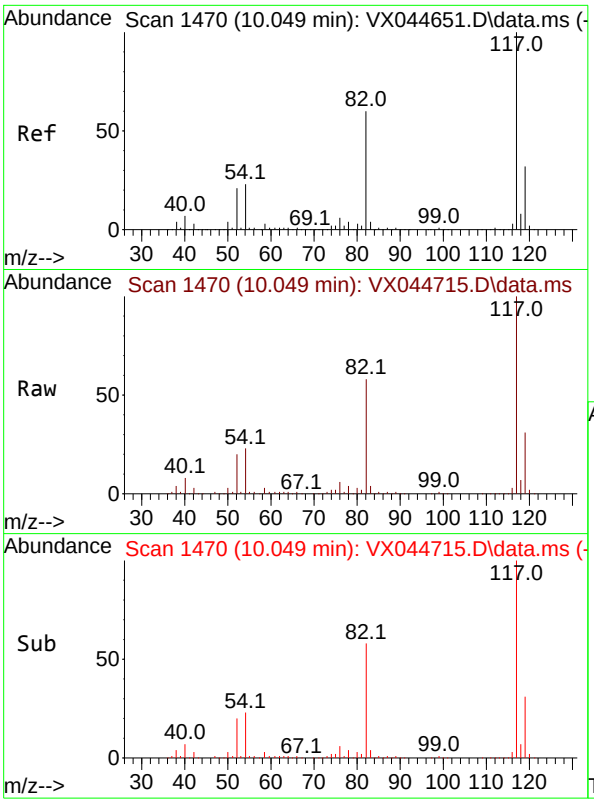




#62
4-Bromofluorobenzene
Concen: 46.926 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 95 Resp: 127855

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 69.9 | 0.0 | 133.0 |
| 176 | 67.3 | 0.0 | 129.4 |



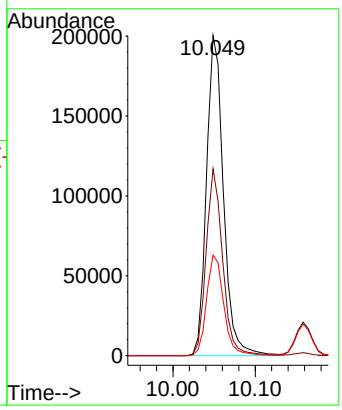


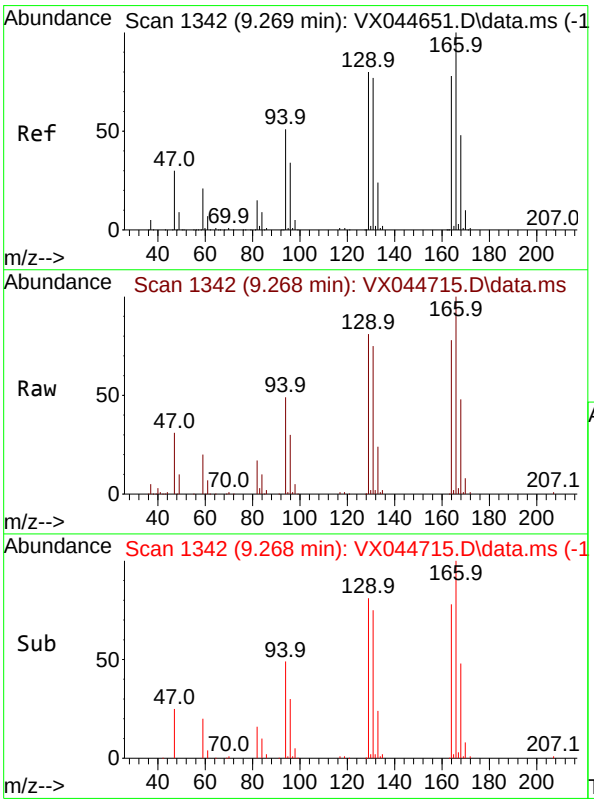

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:117 Resp: 287428

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.4 | 47.6 | 71.4 |
| 119 | 31.4 | 25.4 | 38.2 |

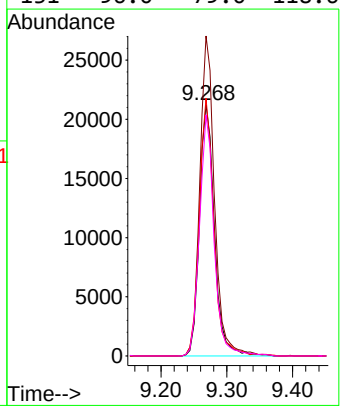


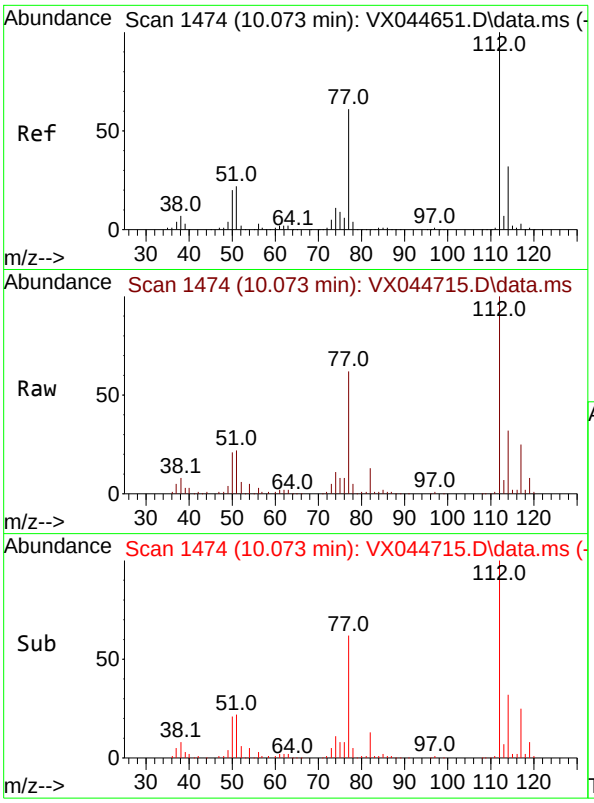




#64
Tetrachloroethene
Concen: 18.672 ug/l
RT: 9.268 min Scan# 1342
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:164 Resp: 33701

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 127.4 | 102.0 | 153.0 |
| 129 | 102.6 | 81.1 | 121.7 |
| 131 | 96.0 | 79.0 | 118.6 |



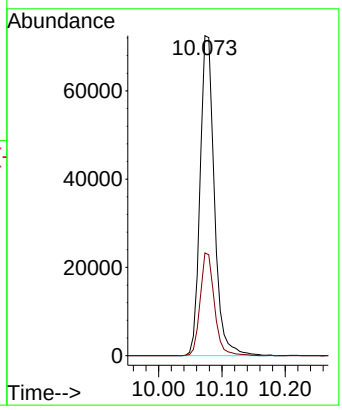


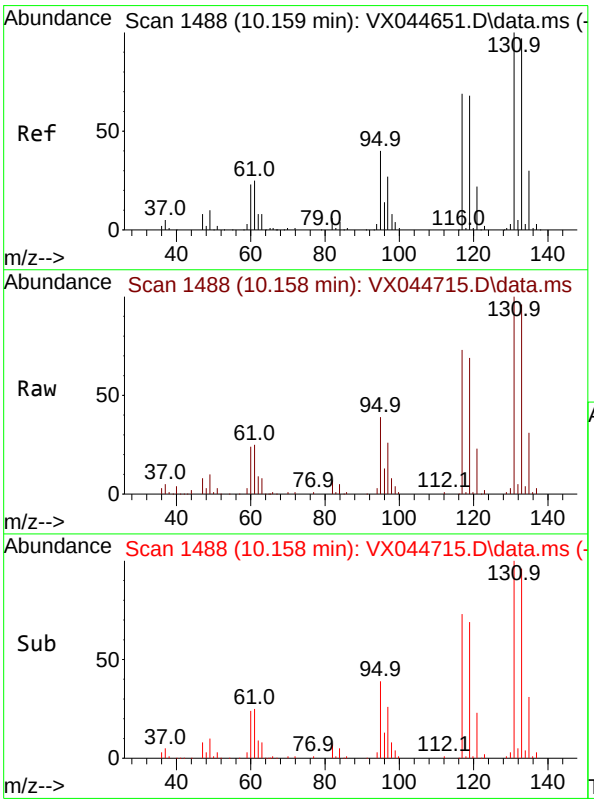

#65
Chlorobenzene
Concen: 18.702 ug/l
RT: 10.073 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:112 Resp: 114176

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 32.1 | 25.3 | 37.9 |

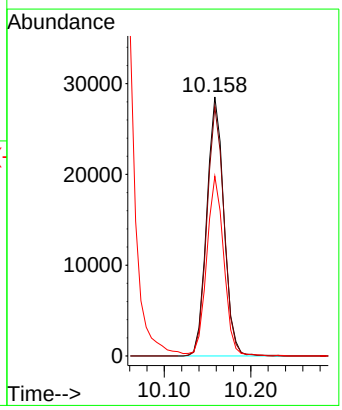


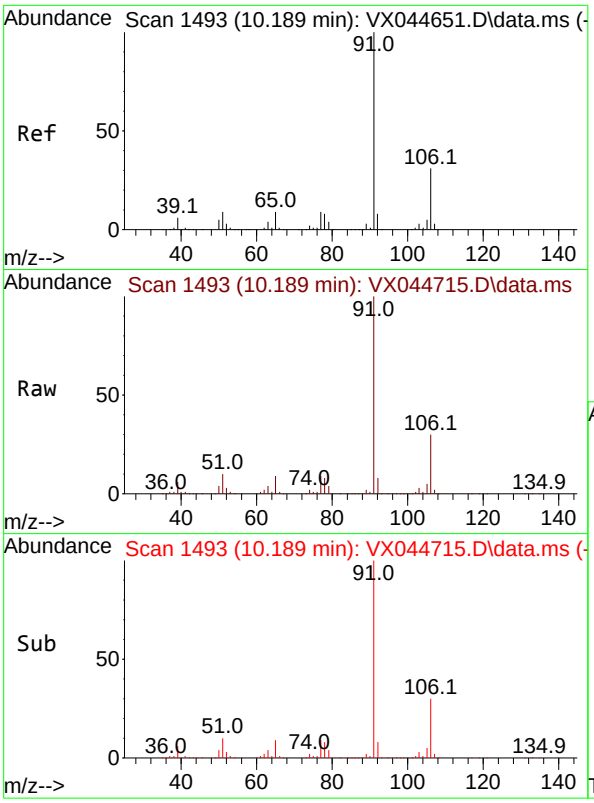




#66
1,1,1,2-Tetrachloroethane
Concen: 17.674 ug/l
RT: 10.158 min Scan# 1488
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:131 Resp: 39214

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.3 | 47.8 | 143.3 |
| 119 | 69.4 | 33.4 | 100.2 |



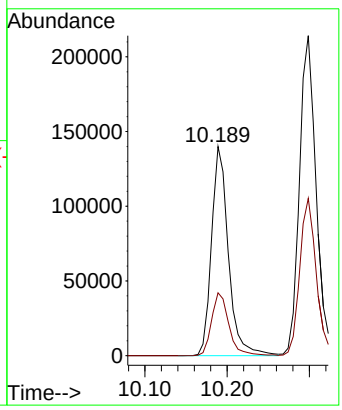


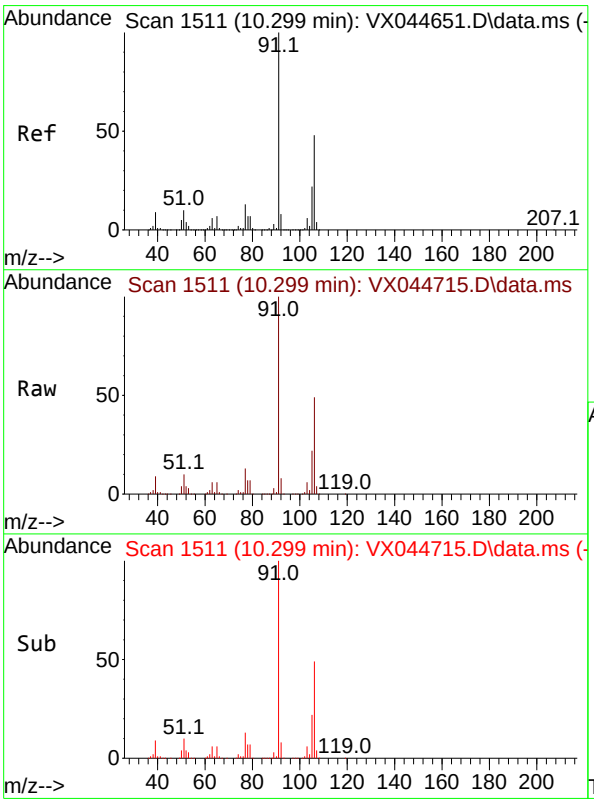

#67
Ethyl Benzene
Concen: 18.765 ug/l
RT: 10.189 min Scan# 14
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 91 Resp: 199900

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 30.1 | 25.0 | 37.6 |

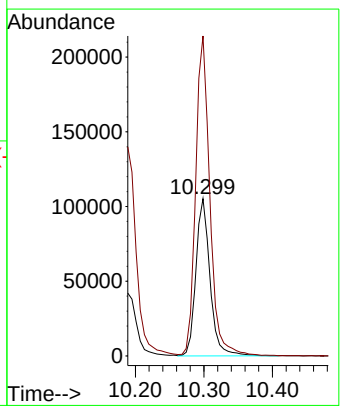


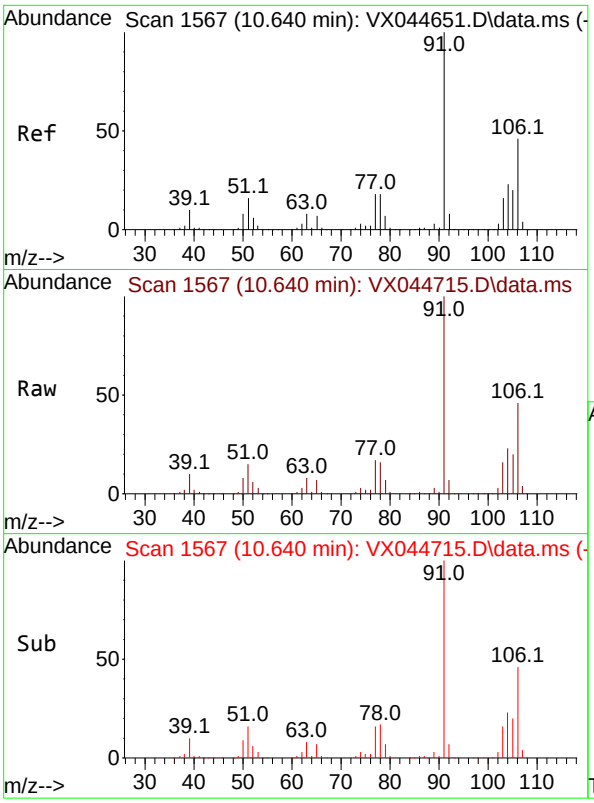




#68
m/p-Xylenes
Concen: 38.135 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:106 Resp: 150751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.8 | 166.4 | 249.6 |



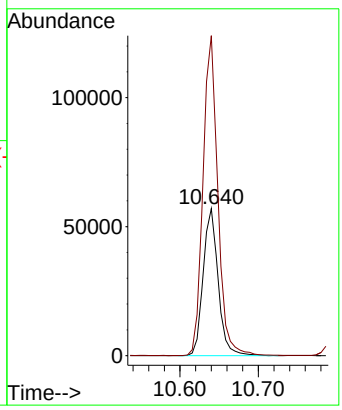


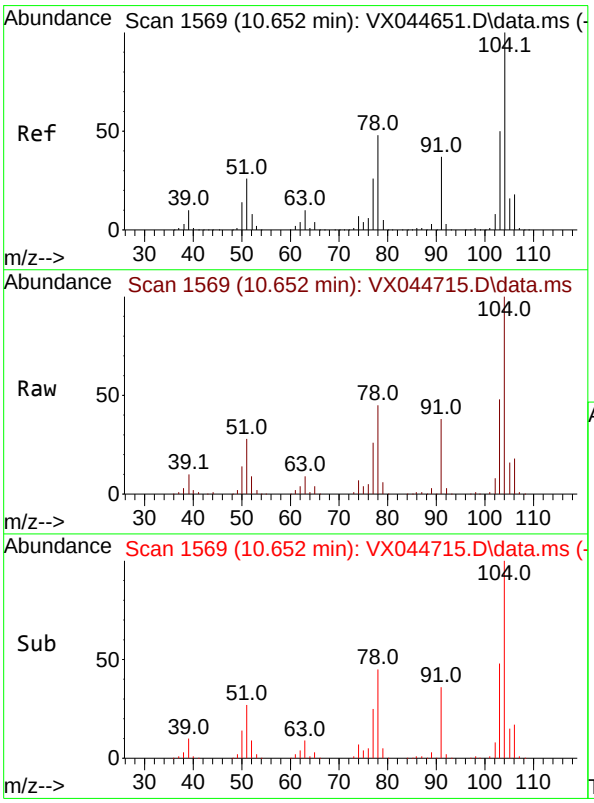

#69
o-Xylene
Concen: 18.921 ug/l
RT: 10.640 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:106 Resp: 75639

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.1 | 108.7 | 326.3 |

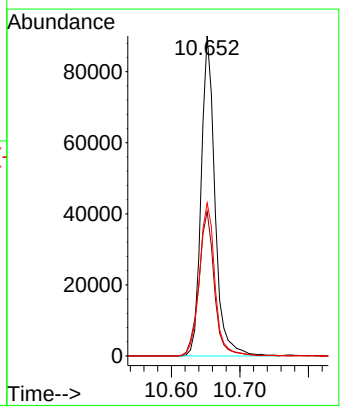


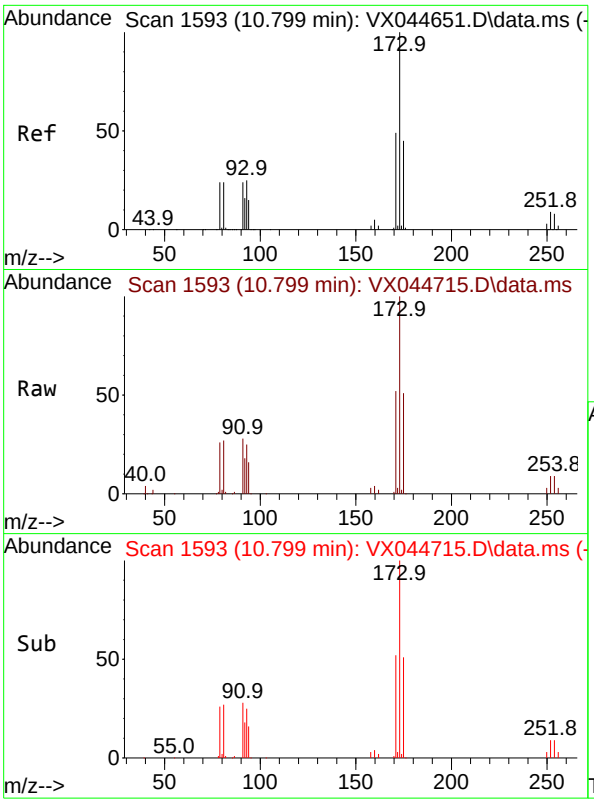




#70
Styrene
Concen: 19.600 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:104 Resp: 126504

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 50.2 | 43.0 | 64.6 |
| 103 | 53.7 | 43.4 | 65.2 |



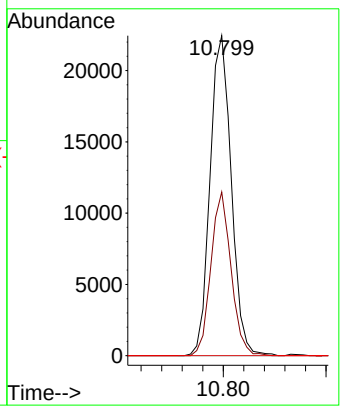


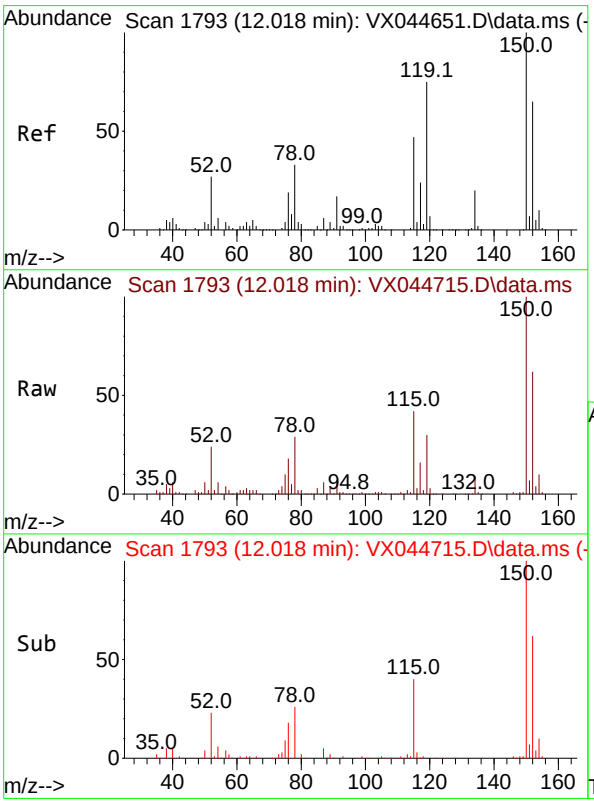

#71
Bromoform
Concen: 17.798 ug/l
RT: 10.799 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:173 Resp: 32141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.5 | 23.6 | 70.8 |
| 254 | 0.0 | 0.1 | 0.1# |

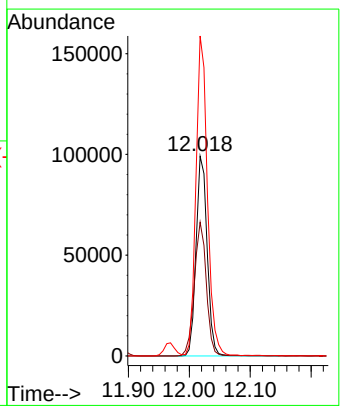


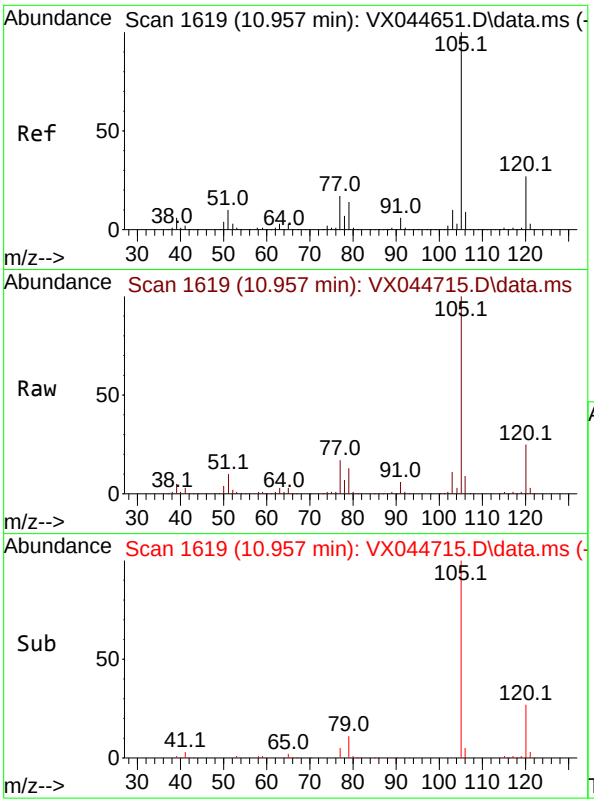




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:152 Resp: 125692

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 72.2 | 43.8 | 131.4 |
| 150 | 164.2 | 0.0 | 347.8 |



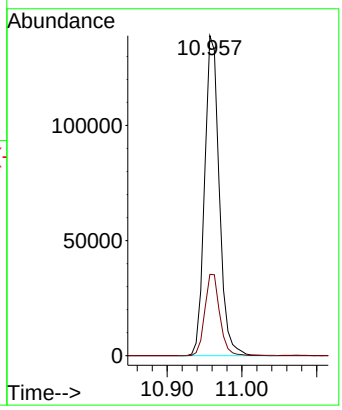


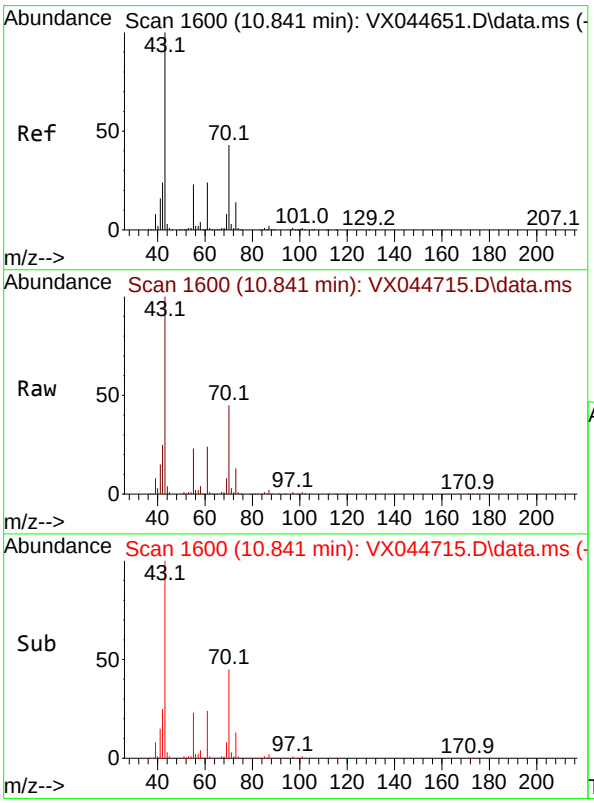

#73
Isopropylbenzene
Concen: 18.433 ug/l
RT: 10.957 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:105 Resp: 189275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 13.2 | 39.6 |

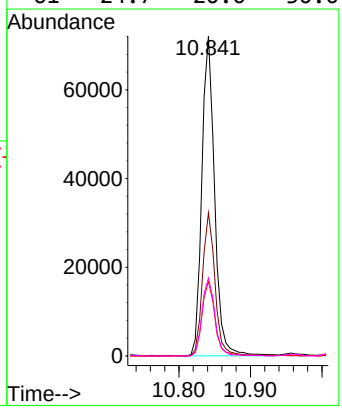


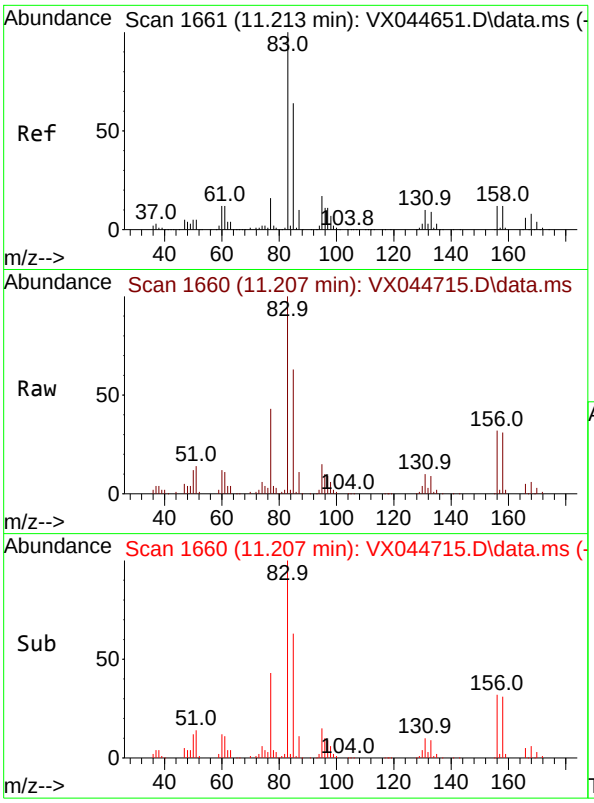




#74
N-amyl acetate
Concen: 17.648 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 43 Resp: 89318

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 44.1 | 35.2 | 52.8 |
| 55 | 23.5 | 19.0 | 28.4 |
| 61 | 24.7 | 20.0 | 30.0 |



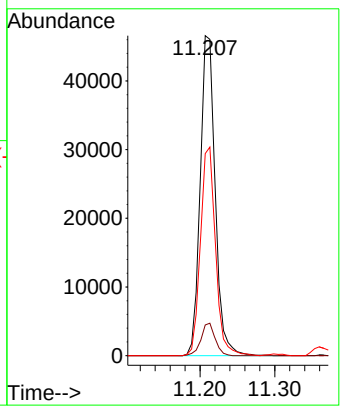


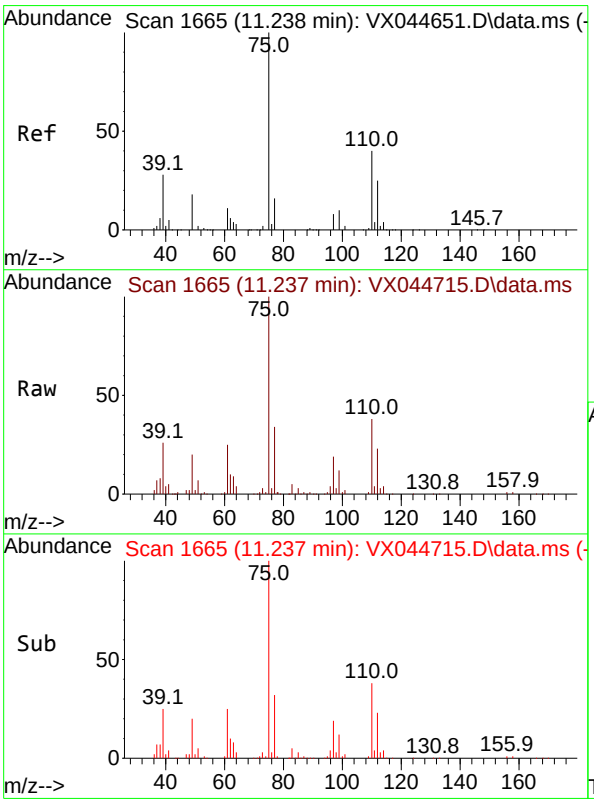

#75
1,1,2,2-Tetrachloroethane
Concen: 18.294 ug/l
RT: 11.207 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 83 Resp: 64877

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.6 | 5.0 | 14.9 |
| 85 | 65.7 | 32.0 | 96.2 |

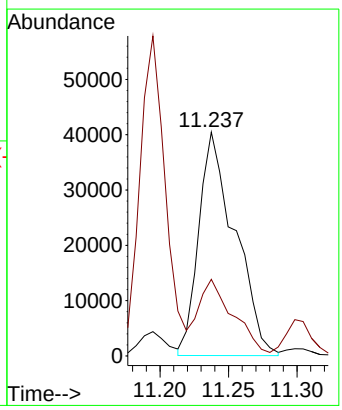


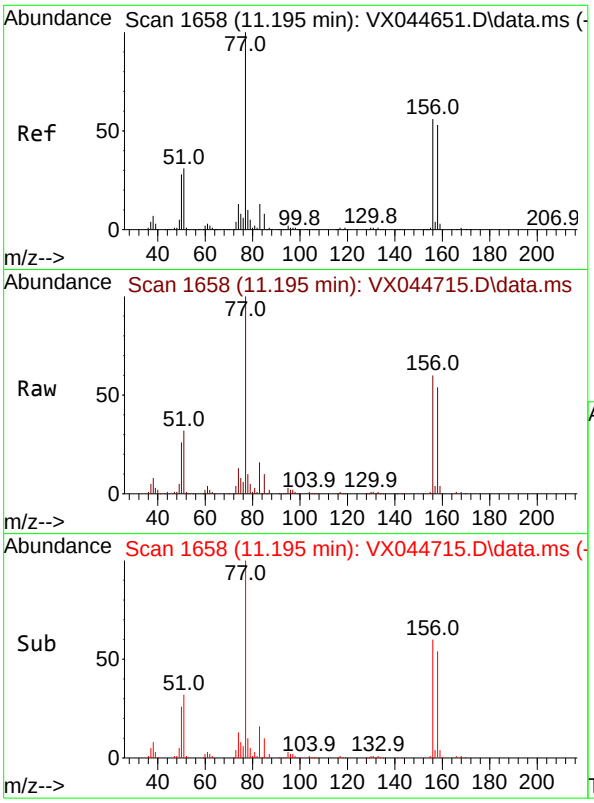




#76
1,2,3-Trichloropropane
Concen: 24.339 ug/l
RT: 11.237 min Scan# 1665
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 75 Resp: 74243

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.4 | 23.4 | 70.2 |



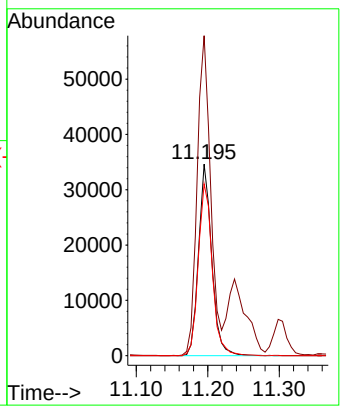


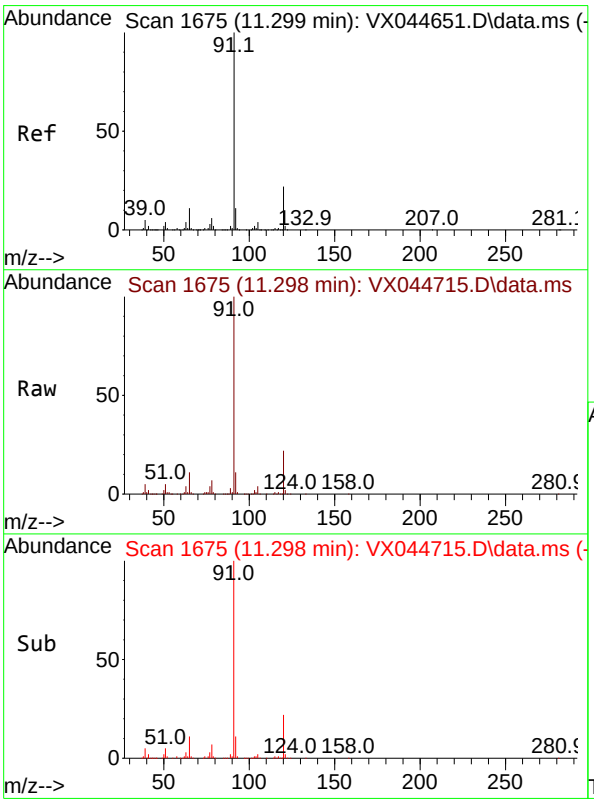

#77
Bromobenzene
Concen: 18.538 ug/l
RT: 11.195 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:156 Resp: 44492

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 169.8 | 90.3 | 271.0 |
| 158 | 94.8 | 48.4 | 145.3 |

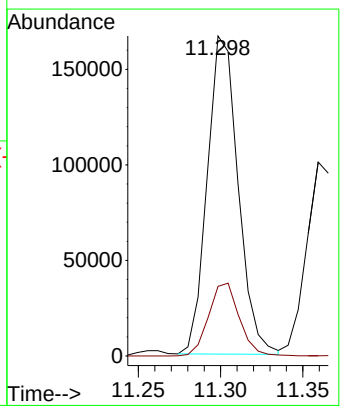


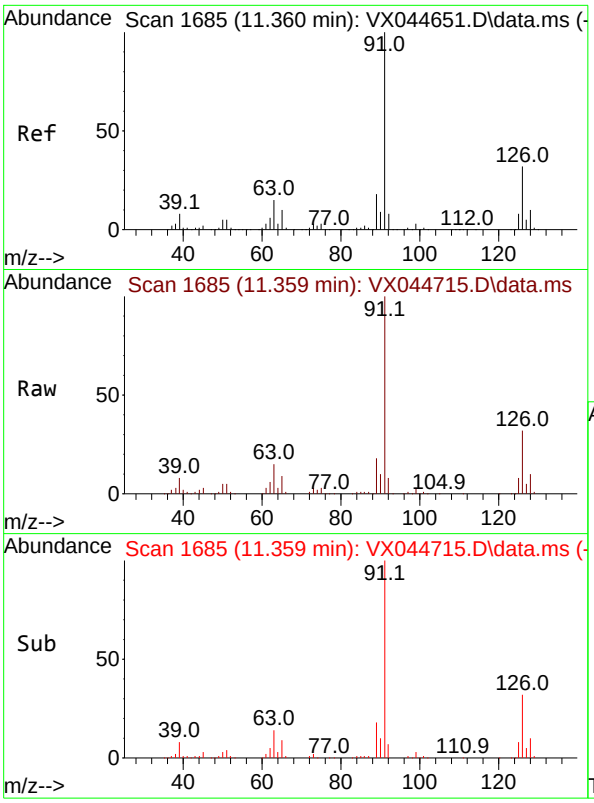




#78
n-propylbenzene
Concen: 19.229 ug/l
RT: 11.298 min Scan# 1675
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 91 Resp: 217748

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 22.8 | 11.4 | 34.1 |



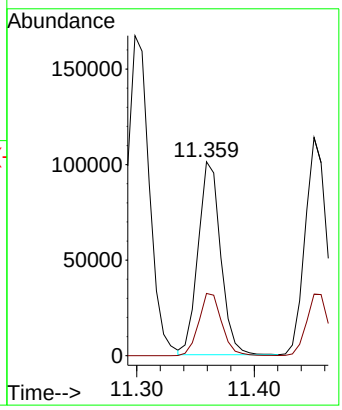


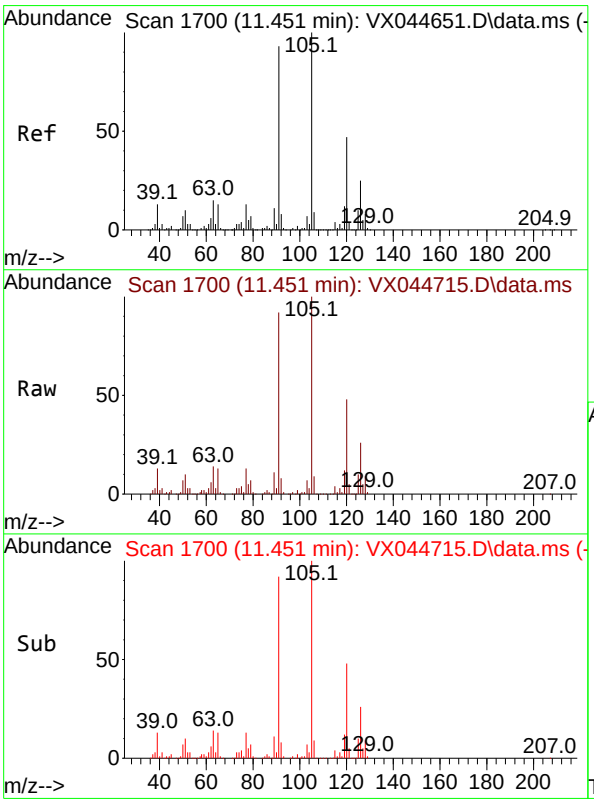

#79
2-Chlorotoluene
Concen: 18.432 ug/l
RT: 11.359 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 91 Resp: 134830

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 33.0 | 16.2 | 48.5 |

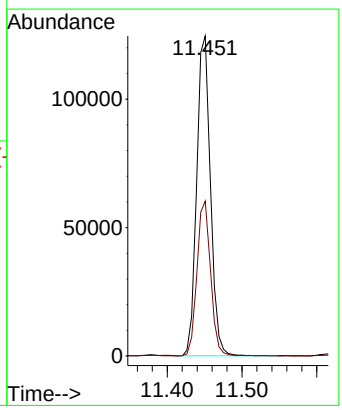


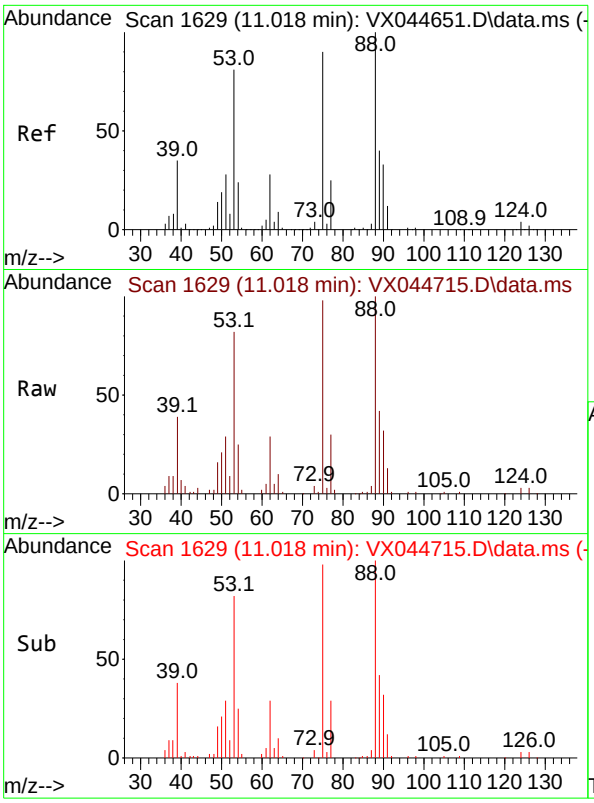




#80
1,3,5-Trimethylbenzene
Concen: 19.003 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:105 Resp: 158844

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 48.3 | 23.7 | 71.1 |



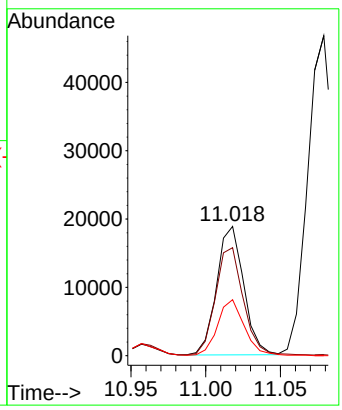


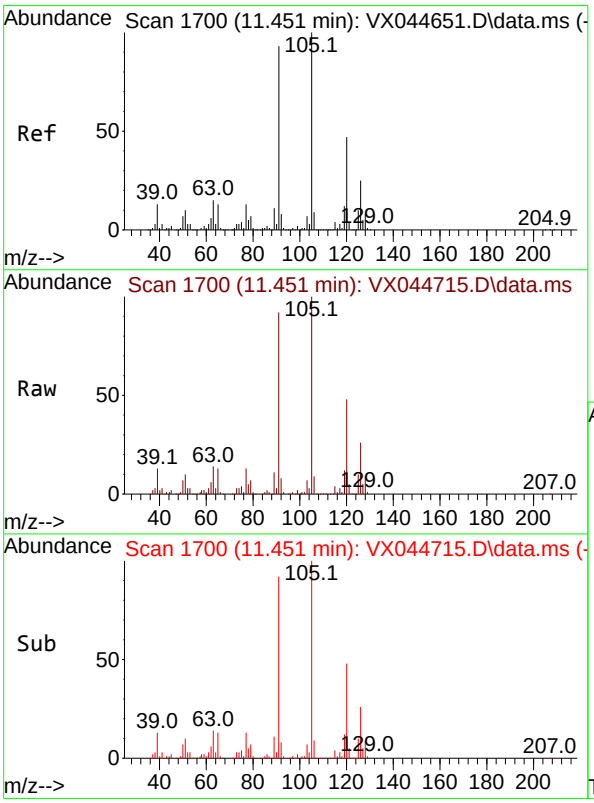

#81
trans-1,4-Dichloro-2-butene
Concen: 17.776 ug/l
RT: 11.018 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 75 Resp: 23711

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 86.3 | 74.3 | 111.5 |
| 89 | 43.5 | 37.4 | 56.0 |

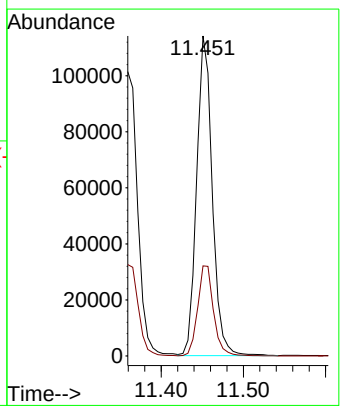


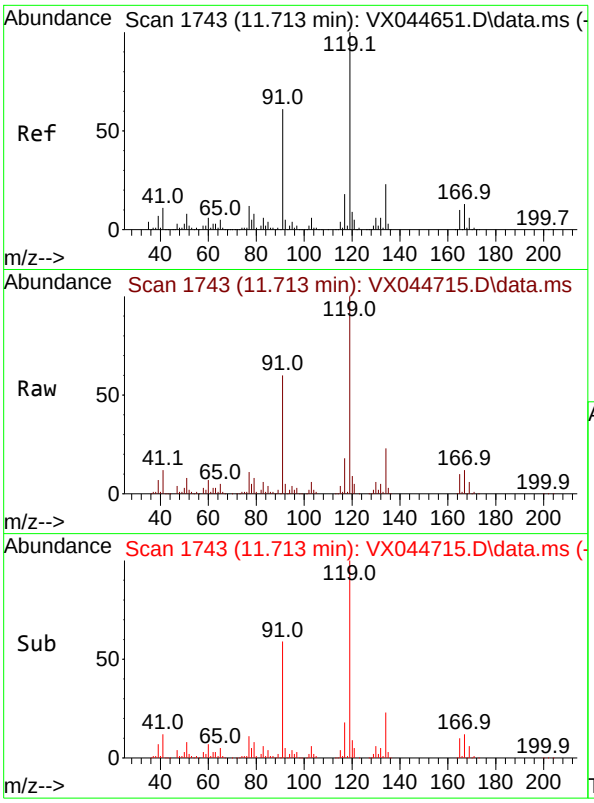




#82
4-Chlorotoluene
Concen: 18.780 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 91 Resp: 150487

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.8 | 13.9 | 41.7 |



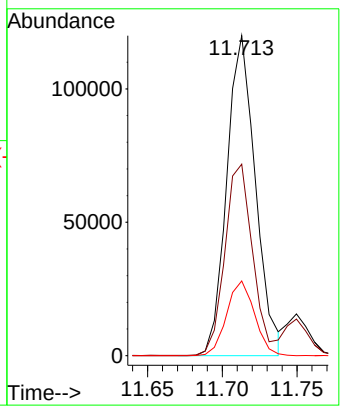


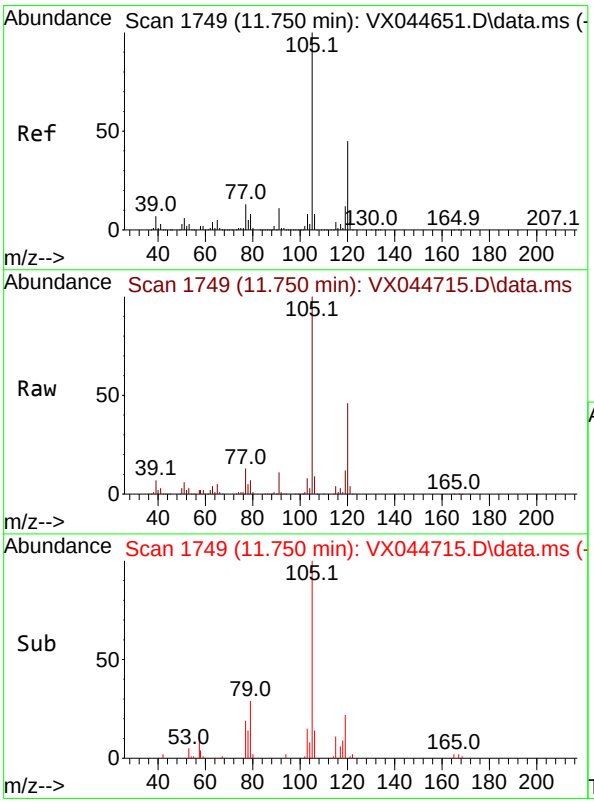

#83
tert-Butylbenzene
Concen: 18.334 ug/l
RT: 11.713 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:119 Resp: 160244

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 58.6 | 30.0 | 90.0 |
| 134 | 22.7 | 11.2 | 33.5 |

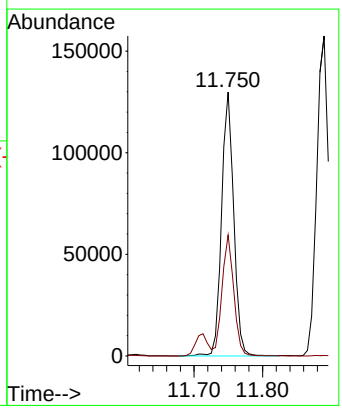


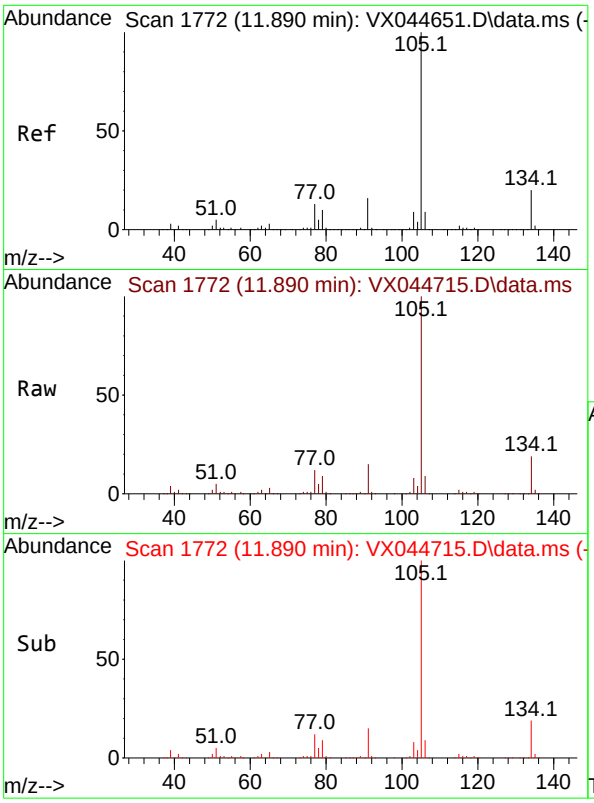




#84
1,2,4-Trimethylbenzene
Concen: 18.677 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:105 Resp: 158646

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.3 | 22.2 | 66.6 |



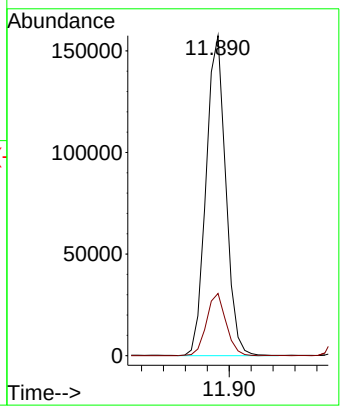


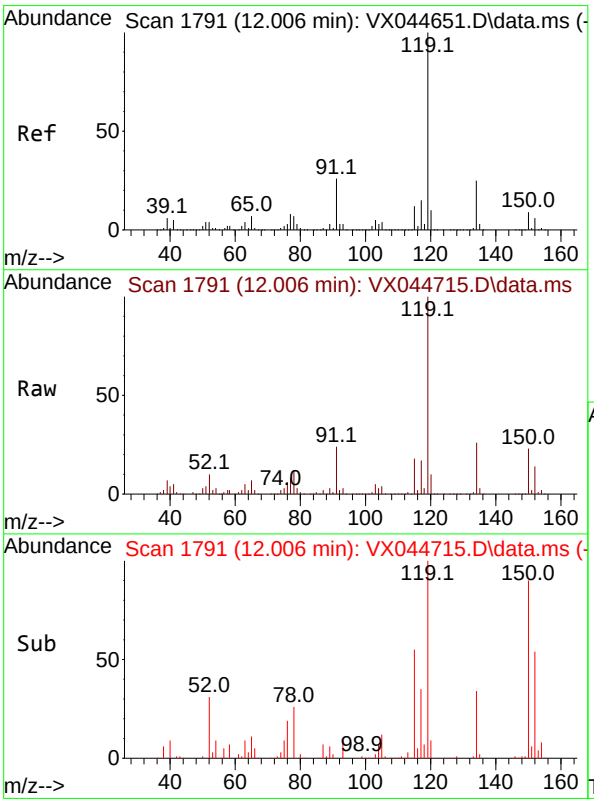

#85
sec-Butylbenzene
Concen: 19.273 ug/l
RT: 11.890 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:105 Resp: 196136

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.3 | 9.8 | 29.5 |

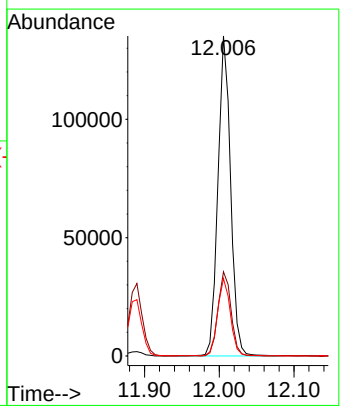


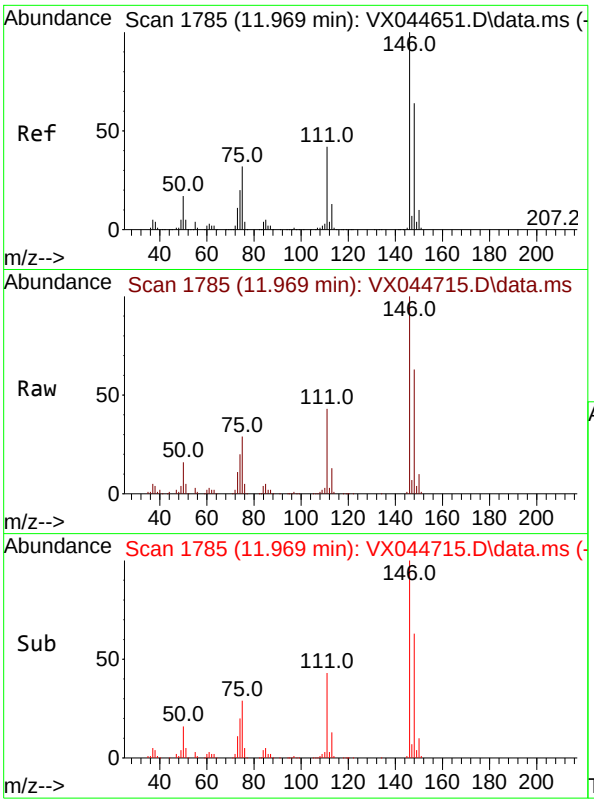




#86
p-Isopropyltoluene
Concen: 19.029 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:119 Resp: 159144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 27.1 | 12.8 | 38.4 |
| 91 | 24.4 | 12.7 | 38.1 |



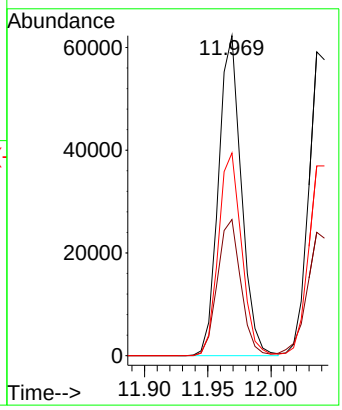


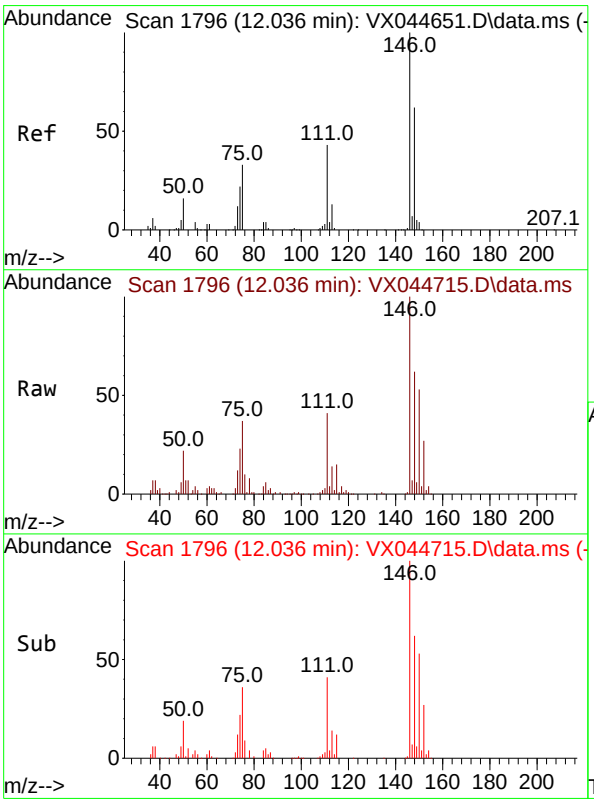

#87
1,3-Dichlorobenzene
Concen: 18.793 ug/l
RT: 11.969 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:146 Resp: 78221

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.5 | 21.9 | 65.7 |
| 148 | 64.3 | 31.8 | 95.4 |

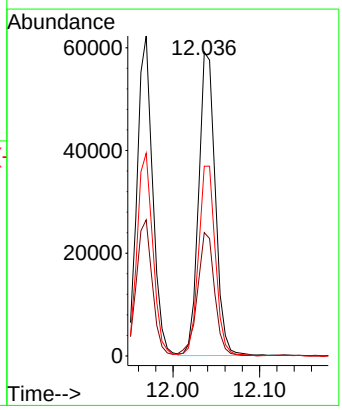


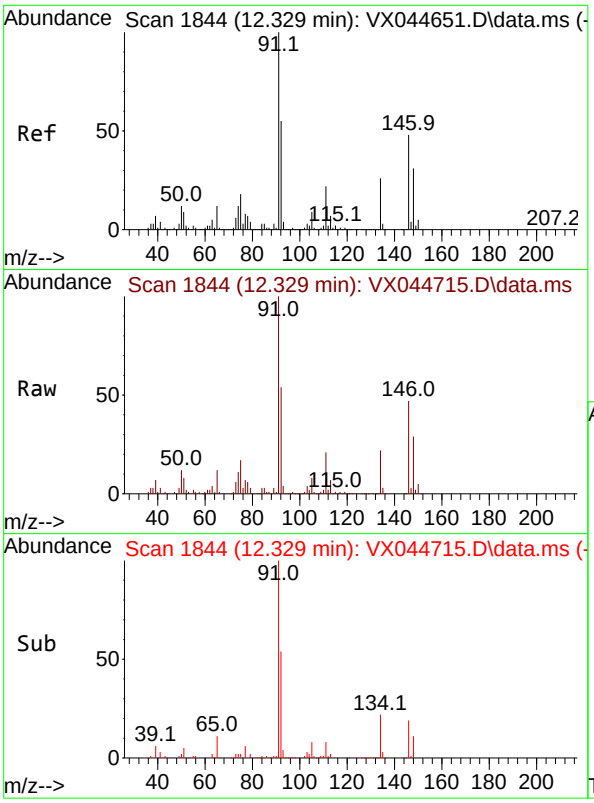




#88
1,4-Dichlorobenzene
Concen: 18.742 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:146 Resp: 78858

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.9 | 21.5 | 64.5 |
| 148 | 63.7 | 32.1 | 96.5 |



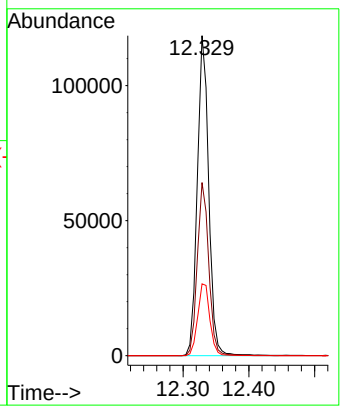


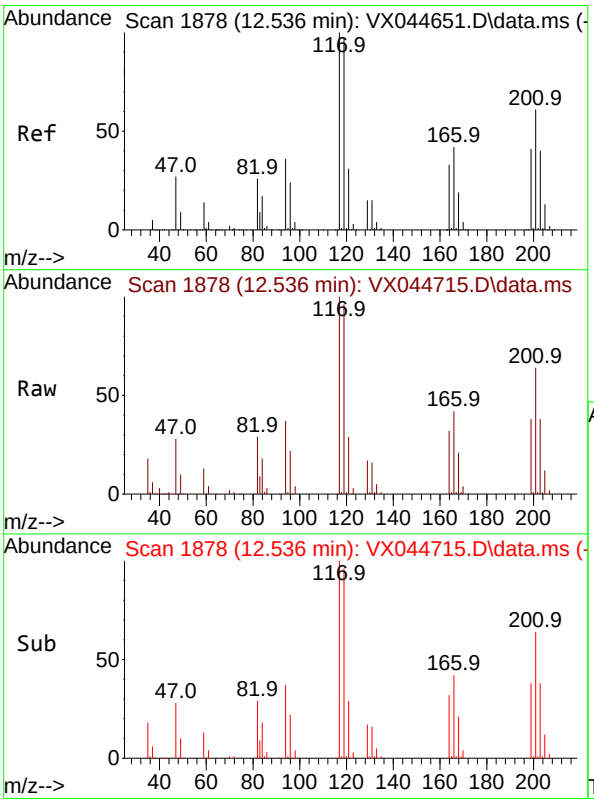

#89
n-Butylbenzene
Concen: 19.808 ug/l
RT: 12.329 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion: 91 Resp: 142284

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.4 | 27.4 | 82.0 |
| 134 | 24.0 | 12.8 | 38.3 |

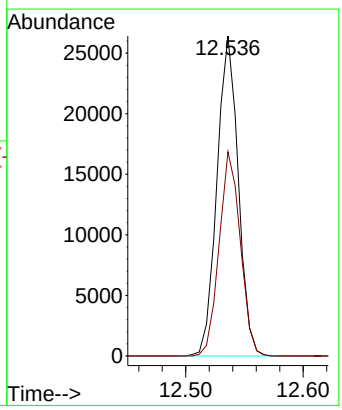


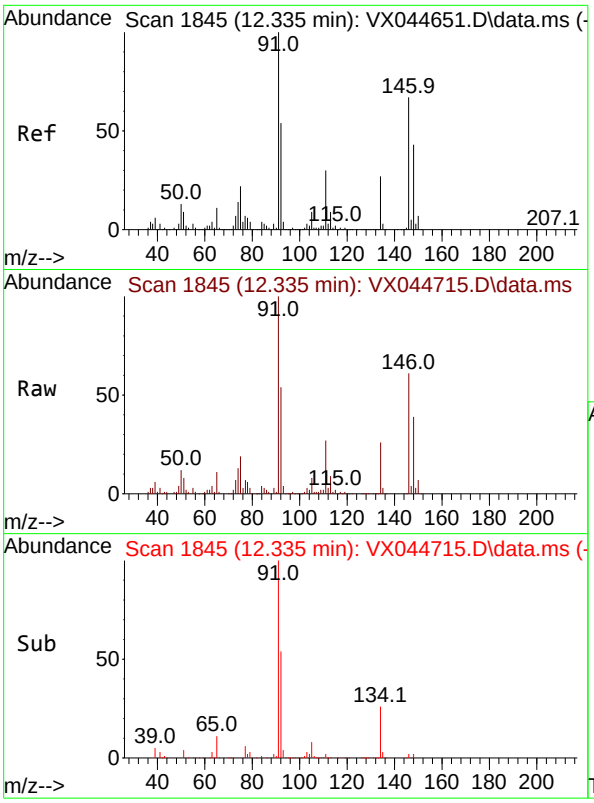




#90
Hexachloroethane
Concen: 17.551 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:117 Resp: 33238

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.6 | 32.3 | 96.8 |



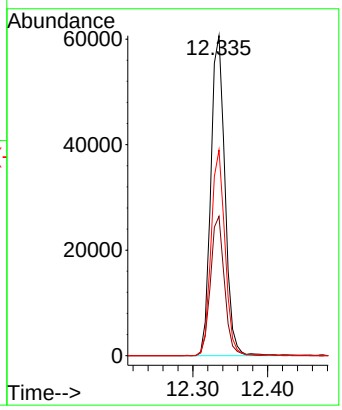


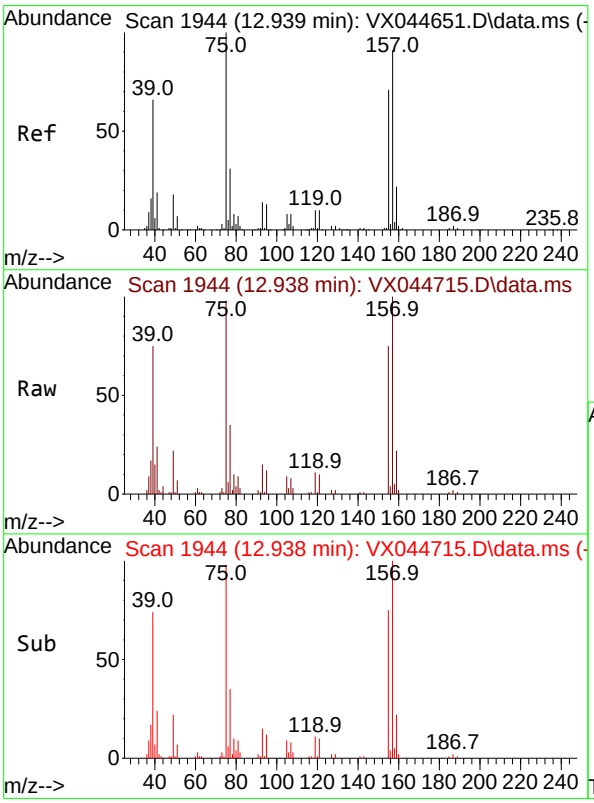

#91
1,2-Dichlorobenzene
Concen: 18.586 ug/l
RT: 12.335 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:146 Resp: 79447

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.0 | 22.4 | 67.2 |
| 148 | 63.5 | 31.6 | 94.8 |

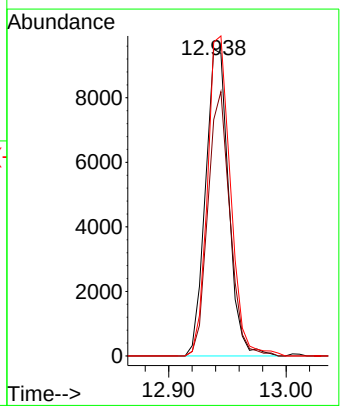


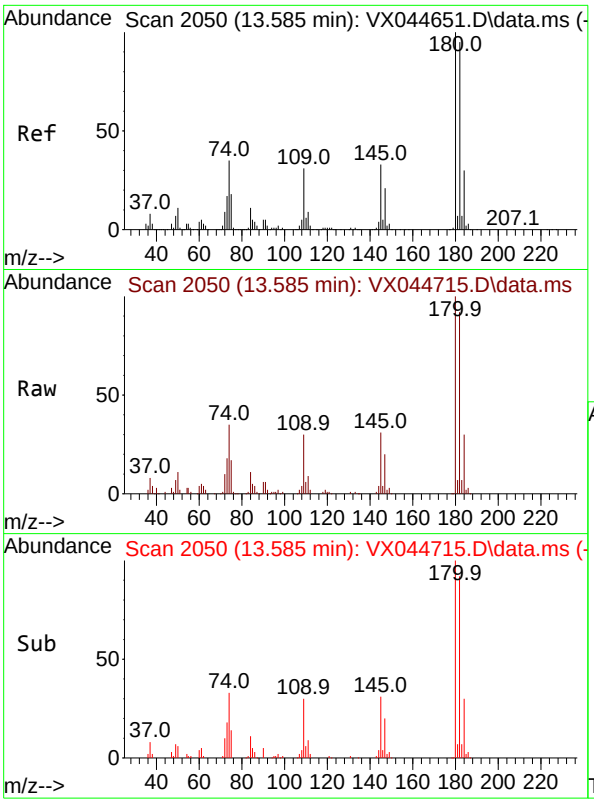




#92
1,2-Dibromo-3-Chloropropane
Concen: 14.949 ug/l
RT: 12.938 min Scan# 1944
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion: 75 Resp: 12965

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 82.6 | 39.0 | 116.9 |
| 157 | 104.0 | 49.9 | 149.7 |



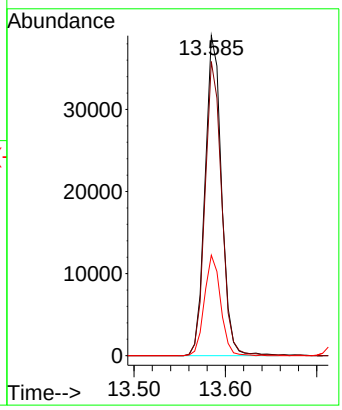


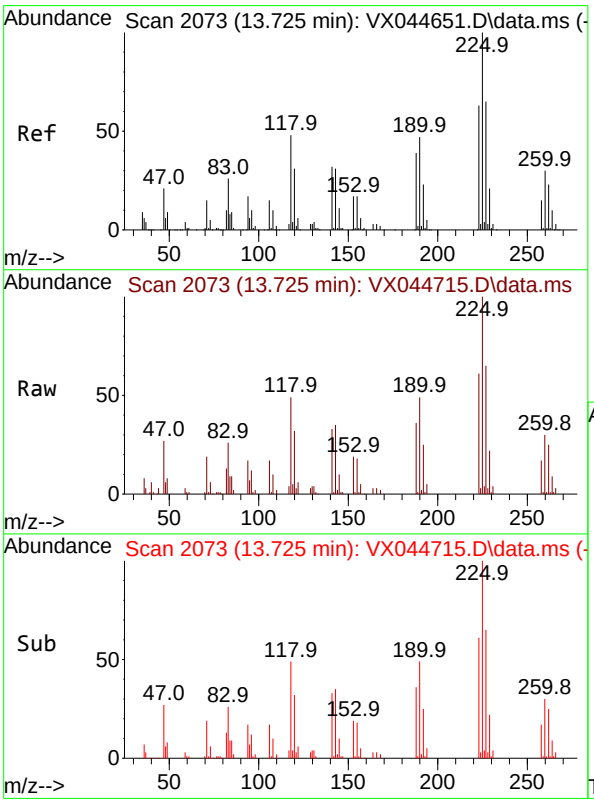

#93
1,2,4-Trichlorobenzene
Concen: 19.078 ug/l
RT: 13.585 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:180 Resp: 48749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 92.5 | 47.4 | 142.2 |
| 145 | 30.8 | 16.7 | 50.1 |

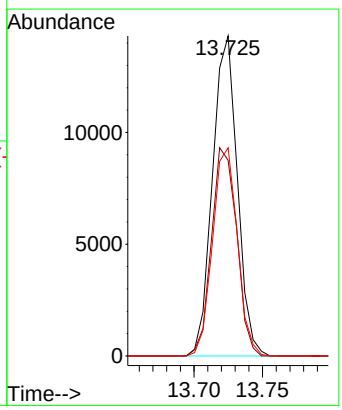


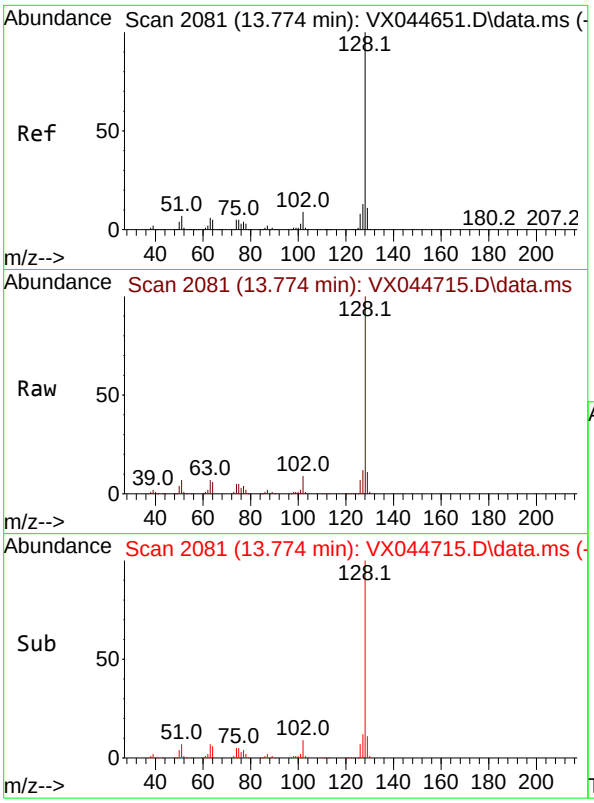




#94
Hexachlorobutadiene
Concen: 17.945 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:225 Resp: 18012

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 65.9 | 31.9 | 95.7 |
| 227 | 65.1 | 31.8 | 95.4 |



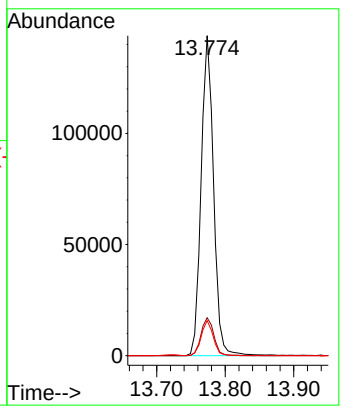


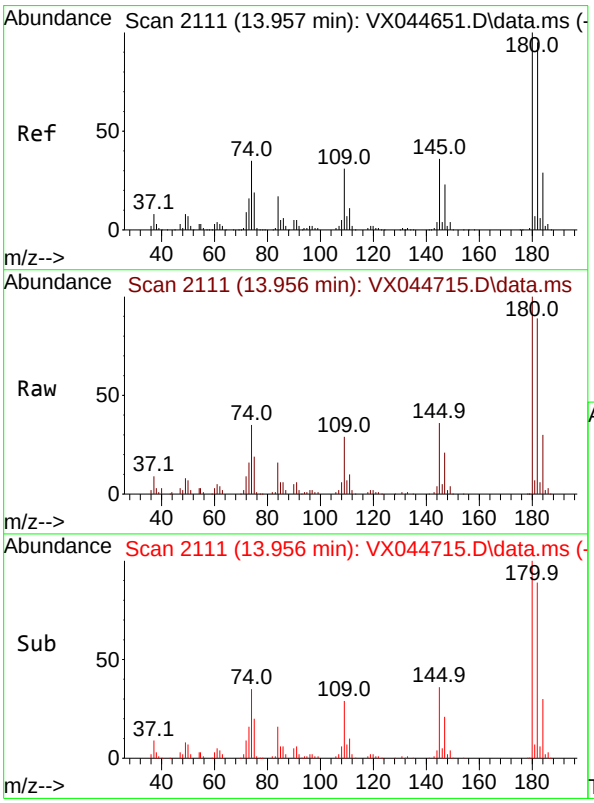

#95
Naphthalene
Concen: 18.471 ug/l
RT: 13.774 min Scan# 2
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

**Instrument :**
MSVOA_X
**ClientSampleId :**
VX0127WBSD01

Tgt Ion:128 Resp: 182044

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.2 | 10.3 | 15.5 |
| 129 | 10.6 | 8.7 | 13.1 |

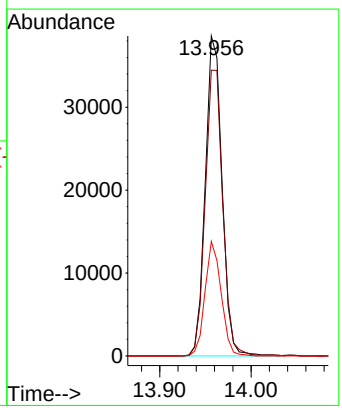



#96
1,2,3-Trichlorobenzene
Concen: 18.489 ug/l
RT: 13.956 min Scan# 2111
Delta R.T. -0.000 min
Lab File: VX044715.D
Acq: 27 Jan 2025 11:52

Tgt Ion:180 Resp: 48973

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.6 | 47.2 | 141.6 |
| 145 | 34.6 | 17.5 | 52.6 |



Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|---|---|---|---|---|---|---|
| Internal Standards | | | | | | |
| 1) Pentafluorobenzene | 5.544 | 168 | 172951 | 50.000 | ug/l | 0.00 |
| 34) 1,4-Difluorobenzene | 6.757 | 114 | 325756 | 50.000 | ug/l | 0.00 |
| 63) Chlorobenzene-d5 | 10.049 | 117 | 269229 | 50.000 | ug/l | 0.00 |
| 72) 1,4-Dichlorobenzene-d4 | 12.018 | 152 | 114515 | 50.000 | ug/l | 0.00 |
| System Monitoring Compounds | | | | | | |
| 33) 1,2-Dichloroethane-d4 | 5.952 | 65 | 123215 | 47.199 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 74 - 125 | | Recovery = 94.400% | | | |
| 35) Dibromofluoromethane | 5.379 | 113 | 104400 | 50.447 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 75 - 124 | | Recovery = 100.900% | | | |
| 50) Toluene-d8 | 8.647 | 98 | 374057 | 51.838 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 86 - 113 | | Recovery = 103.680% | | | |
| 62) 4-Bromofluorobenzene | 11.079 | 95 | 125660 | 46.714 | ug/l | 0.00 |
| Spiked Amount 50.000 | Range 77 - 121 | | Recovery = 93.420% | | | |
| Target Compounds | | | | | | Qvalue |
| 2) Dichlorodifluoromethane | 1.166 | 85 | 111723 | 48.005 | ug/l | 99 |
| 3) Chloromethane | 1.307 | 50 | 128721 | 51.146 | ug/l | 98 |
| 4) Vinyl Chloride | 1.374 | 62 | 132495 | 53.282 | ug/l | 98 |
| 5) Bromomethane | 1.593 | 94 | 32222 | 54.267 | ug/l | 97 |
| 6) Chloroethane | 1.660 | 64 | 35587 | 78.041 | ug/l | 96 |
| 7) Trichlorofluoromethane | 1.867 | 101 | 160029 | 58.228 | ug/l | 98 |
| 8) Diethyl Ether | 2.136 | 74 | 57882 | 52.188 | ug/l | 96 |
| 9) 1,1,2-Trichlorotrifluo... | 2.319 | 101 | 108656 | 52.594 | ug/l | 98 |
| 10) Methyl Iodide | 2.447 | 142 | 146080 | 51.790 | ug/l | 97 |
| 11) Tert butyl alcohol | 2.989 | 59 | 133813 | 229.927 | ug/l # | 85 |
| 12) 1,1-Dichloroethene | 2.306 | 96 | 111815 | 55.215 | ug/l | 96 |
| 13) Acrolein | 2.239 | 56 | 90124 | 329.074 | ug/l | 99 |
| 14) Allyl chloride | 2.654 | 41 | 200564 | 50.867 | ug/l | 97 |
| 15) Acrylonitrile | 3.062 | 53 | 318594 | 279.107 | ug/l | 99 |
| 16) Acetone | 2.386 | 43 | 259537 | 251.283 | ug/l | 96 |
| 17) Carbon Disulfide | 2.501 | 76 | 295781 | 53.527 | ug/l | 99 |
| 18) Methyl Acetate | 2.703 | 43 | 186114 | 58.407 | ug/l | 99 |
| 19) Methyl tert-butyl Ether | 3.111 | 73 | 371345 | 50.627 | ug/l | 98 |
| 20) Methylene Chloride | 2.782 | 84 | 123457 | 51.328 | ug/l | 98 |
| 21) trans-1,2-Dichloroethene | 3.087 | 96 | 110052 | 52.052 | ug/l | 98 |
| 22) Diisopropyl ether | 3.757 | 45 | 381220 | 55.621 | ug/l | 98 |
| 23) Vinyl Acetate | 3.721 | 43 | 1606823 | 267.851 | ug/l | 100 |
| 24) 1,1-Dichloroethane | 3.605 | 63 | 217085 | 53.411 | ug/l | 99 |
| 25) 2-Butanone | 4.556 | 43 | 423266 | 275.626 | ug/l | 100 |
| 26) 2,2-Dichloropropane | 4.471 | 77 | 166555 | 42.282 | ug/l | 95 |
| 27) cis-1,2-Dichloroethene | 4.483 | 96 | 135627 | 50.998 | ug/l | 97 |
| 28) Bromochloromethane | 4.891 | 49 | 103327 | 54.405 | ug/l | 95 |
| 29) Tetrahydrofuran | 5.001 | 42 | 277269 | 279.917 | ug/l | 97 |
| 30) Chloroform | 5.086 | 83 | 207669 | 50.629 | ug/l | 98 |
| 31) Cyclohexane | 5.464 | 56 | 185760 | 56.510 | ug/l | 96 |
| 32) 1,1,1-Trichloroethane | 5.373 | 97 | 177763 | 47.142 | ug/l | 99 |
| 36) 1,1-Dichloropropene | 5.684 | 75 | 142861 | 49.591 | ug/l | 99 |
| 37) Ethyl Acetate | 4.714 | 43 | 168109 | 54.798 | ug/l | 98 |
| 38) Carbon Tetrachloride | 5.666 | 117 | 150574 | 46.468 | ug/l | 97 |
| 39) Methylcyclohexane | 7.373 | 83 | 191661 | 50.118 | ug/l | 98 |
| 40) Benzene | 6.031 | 78 | 464502 | 52.035 | ug/l | 100 |

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

| Compound | R.T. | QIon | Response | Conc | Units | | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 41) Methacrylonitrile | 4.916 | 41 | 93115 | 52.088 | ug/l | | 99 |
| 42) 1,2-Dichloroethane | 6.080 | 62 | 149994 | 46.037 | ug/l | | 100 |
| 43) Isopropyl Acetate | 6.336 | 43 | 280126 | 49.636 | ug/l | | 99 |
| 44) Trichloroethene | 7.123 | 130 | 107262 | 49.981 | ug/l | | 95 |
| 45) 1,2-Dichloropropane | 7.427 | 63 | 117332 | 52.217 | ug/l | | 98 |
| 46) Dibromomethane | 7.574 | 93 | 82056 | 47.970 | ug/l | | 99 |
| 47) Bromodichloromethane | 7.818 | 83 | 164495 | 46.892 | ug/l | | 99 |
| 48) Methyl methacrylate | 7.690 | 41 | 133656 | 51.021 | ug/l | | 98 |
| 49) 1,4-Dioxane | 7.665 | 88 | 52370 | 958.191 | ug/l | | 97 |
| 51) 4-Methyl-2-Pentanone | 8.574 | 43 | 804760 | 258.036 | ug/l | | 100 |
| 52) Toluene | 8.714 | 92 | 275818 | 50.481 | ug/l | | 99 |
| 53) t-1,3-Dichloropropene | 8.976 | 75 | 168742 | 46.558 | ug/l | | 99 |
| 54) cis-1,3-Dichloropropene | 8.360 | 75 | 187397 | 47.685 | ug/l | | 98 |
| 55) 1,1,2-Trichloroethane | 9.147 | 97 | 108031 | 48.870 | ug/l | | 97 |
| 56) Ethyl methacrylate | 9.116 | 69 | 185430 | 48.786 | ug/l | | 100 |
| 57) 1,3-Dichloropropane | 9.305 | 76 | 185086 | 49.168 | ug/l | | 100 |
| 58) 2-Chloroethyl Vinyl ether | 8.238 | 63 | 417955 | 223.982 | ug/l | | 98 |
| 59) 2-Hexanone | 9.427 | 43 | 589548 | 256.939 | ug/l | | 100 |
| 60) Dibromochloromethane | 9.518 | 129 | 120124 | 46.299 | ug/l | | 100 |
| 61) 1,2-Dibromoethane | 9.604 | 107 | 110375 | 47.644 | ug/l | | 100 |
| 64) Tetrachloroethene | 9.269 | 164 | 82704 | 48.921 | ug/l | | 99 |
| 65) Chlorobenzene | 10.073 | 112 | 285275 | 49.886 | ug/l | | 100 |
| 66) 1,1,1,2-Tetrachloroethane | 10.159 | 131 | 98702 | 47.492 | ug/l | | 99 |
| 67) Ethyl Benzene | 10.189 | 91 | 508128 | 50.924 | ug/l | | 100 |
| 68) m/p-Xylenes | 10.299 | 106 | 375897 | 101.518 | ug/l | | 98 |
| 69) o-Xylene | 10.640 | 106 | 186721 | 49.864 | ug/l | | 99 |
| 70) Styrene | 10.652 | 104 | 306315 | 50.666 | ug/l | | 98 |
| 71) Bromoform | 10.799 | 173 | 78698 | 46.525 | ug/l | # | 98 |
| 73) Isopropylbenzene | 10.957 | 105 | 467702 | 49.995 | ug/l | | 99 |
| 74) N-amyl acetate | 10.841 | 43 | 230784 | 50.050 | ug/l | | 99 |
| 75) 1,1,2,2-Tetrachloroethane | 11.213 | 83 | 162476 | 50.287 | ug/l | | 100 |
| 76) 1,2,3-Trichloropropane | 11.238 | 75 | 183144 | 65.900 | ug/l | | 79 |
| 77) Bromobenzene | 11.195 | 156 | 105832 | 48.400 | ug/l | | 97 |
| 78) n-propylbenzene | 11.299 | 91 | 537719 | 52.120 | ug/l | | 98 |
| 79) 2-Chlorotoluene | 11.360 | 91 | 324771 | 48.732 | ug/l | | 99 |
| 80) 1,3,5-Trimethylbenzene | 11.451 | 105 | 377028 | 49.507 | ug/l | | 100 |
| 81) trans-1,4-Dichloro-2-b... | 11.018 | 75 | 58035 | 47.755 | ug/l | | 98 |
| 82) 4-Chlorotoluene | 11.451 | 91 | 360773 | 49.417 | ug/l | | 99 |
| 83) tert-Butylbenzene | 11.713 | 119 | 384493 | 48.285 | ug/l | | 99 |
| 84) 1,2,4-Trimethylbenzene | 11.750 | 105 | 375017 | 48.458 | ug/l | | 99 |
| 85) sec-Butylbenzene | 11.890 | 105 | 468207 | 50.498 | ug/l | | 100 |
| 86) p-Isopropyltoluene | 12.006 | 119 | 384326 | 50.439 | ug/l | | 99 |
| 87) 1,3-Dichlorobenzene | 11.969 | 146 | 191747 | 50.565 | ug/l | | 99 |
| 88) 1,4-Dichlorobenzene | 12.036 | 146 | 186749 | 48.716 | ug/l | | 99 |
| 89) n-Butylbenzene | 12.329 | 91 | 337088 | 51.507 | ug/l | | 99 |
| 90) Hexachloroethane | 12.536 | 117 | 81232 | 47.079 | ug/l | | 99 |
| 91) 1,2-Dichlorobenzene | 12.335 | 146 | 191751 | 49.238 | ug/l | | 99 |
| 92) 1,2-Dibromo-3-Chloropr... | 12.939 | 75 | 33494 | 42.388 | ug/l | | 95 |
| 93) 1,2,4-Trichlorobenzene | 13.585 | 180 | 116141 | 49.887 | ug/l | | 99 |
| 94) Hexachlorobutadiene | 13.725 | 225 | 43217 | 47.259 | ug/l | | 98 |
| 95) Naphthalene | 13.774 | 128 | 446363 | 49.711 | ug/l | | 99 |
| 96) 1,2,3-Trichlorobenzene | 13.963 | 180 | 118806 | 49.232 | ug/l | | 99 |

Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration

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

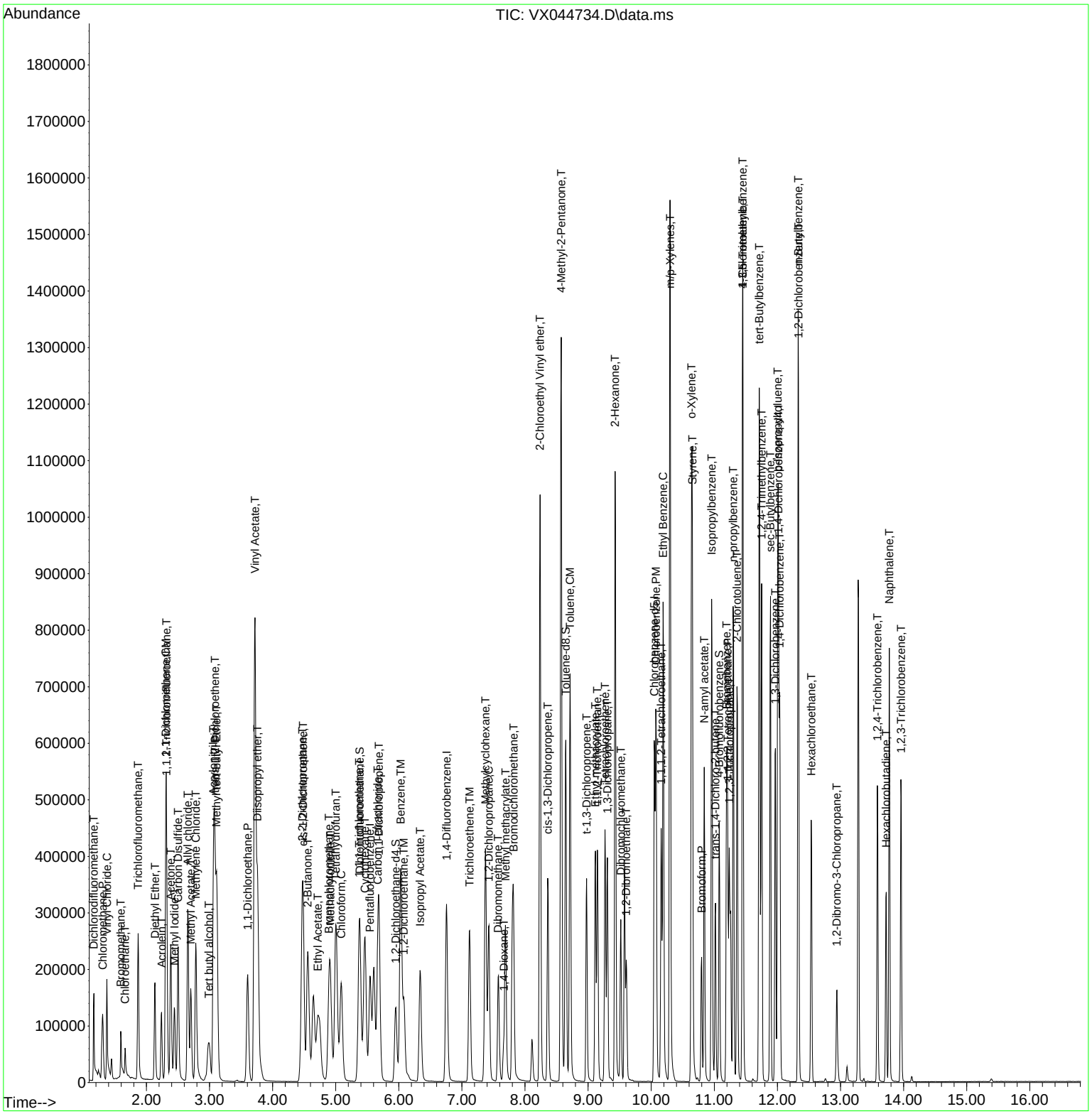
(#) = qualifier out of range (m) = manual integration (+) = signals summed

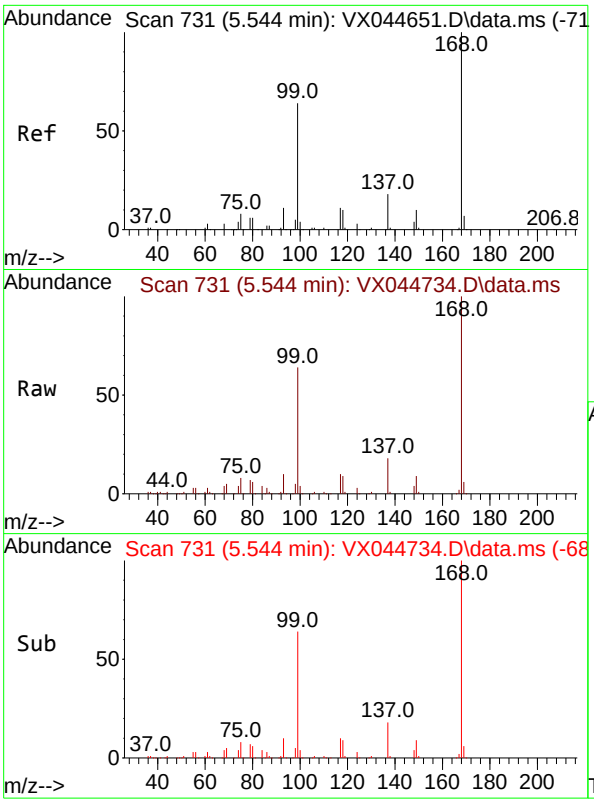
Quantitation Report (Not Reviewed)

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX012725\
Data File : VX044734.D
Acq On : 27 Jan 2025 19:09
Operator : JC/MD
Sample : VSTDCCC050
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 25 Sample Multiplier: 1

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Quant Time: Jan 28 04:17:44 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X011525W.M
Quant Title : SW846 8260
QLast Update : Thu Jan 16 01:16:09 2025
Response via : Initial Calibration



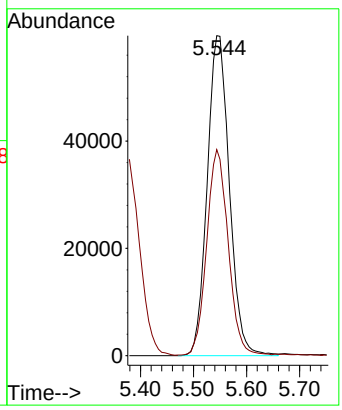


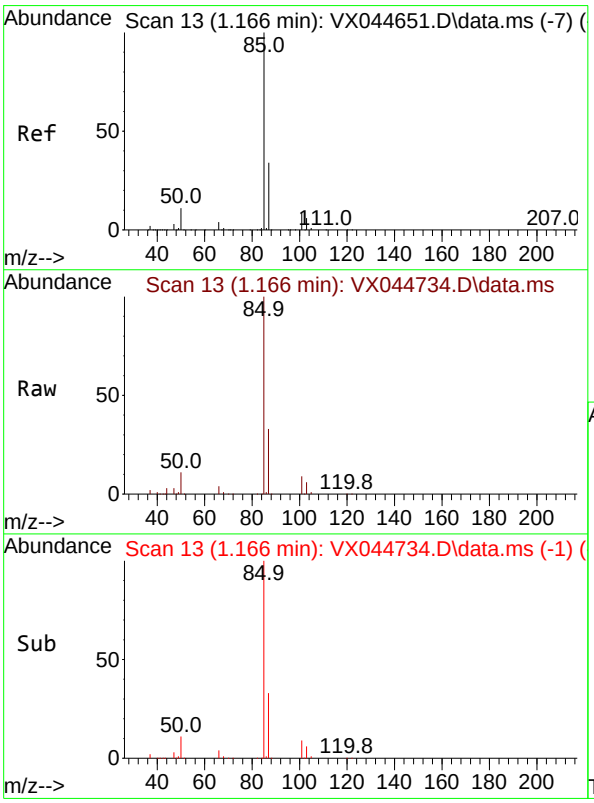

#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 7
Delta R.T. -0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:168 Resp: 172951

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 168 | 100 | | |
| 99 | 64.2 | 51.1 | 76.7 |

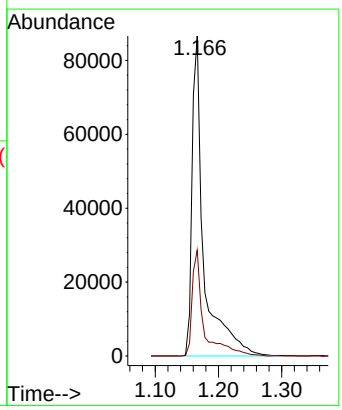


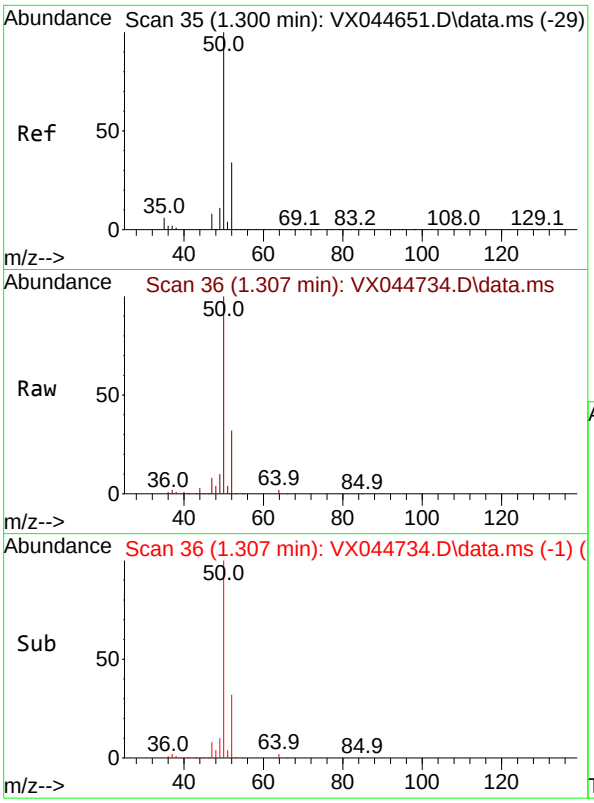




#2
Dichlorodifluoromethane
Concen: 48.005 ug/l
RT: 1.166 min Scan# 13
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 85 Resp: 111723

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 85 | 100 | | |
| 87 | 33.1 | 16.8 | 50.4 |



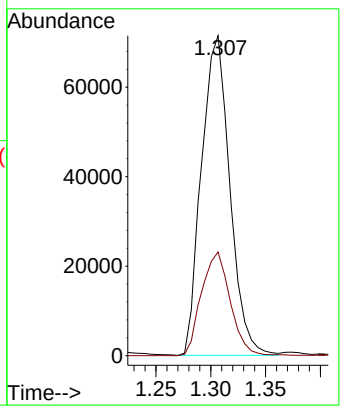


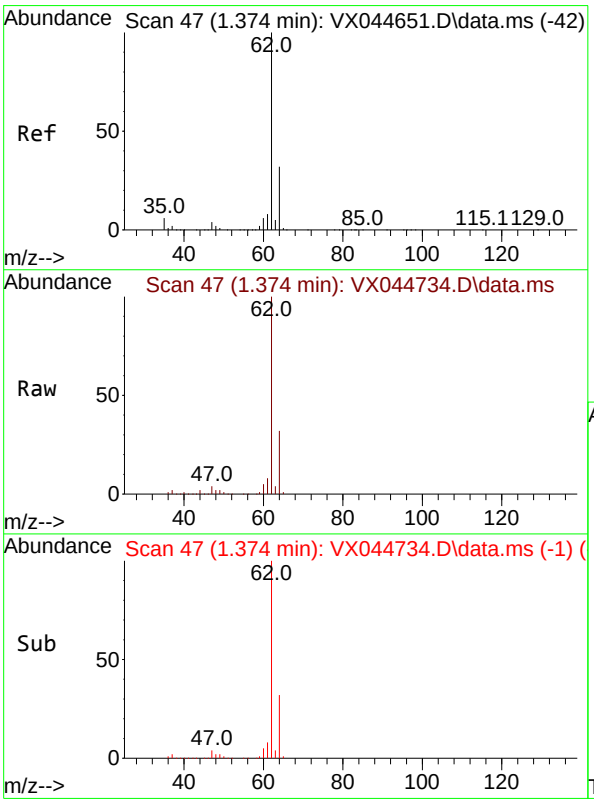

#3
Chloromethane
Concen: 51.146 ug/l
RT: 1.307 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 50 Resp: 128721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 50 | 100 | | |
| 52 | 32.4 | 27.0 | 40.4 |

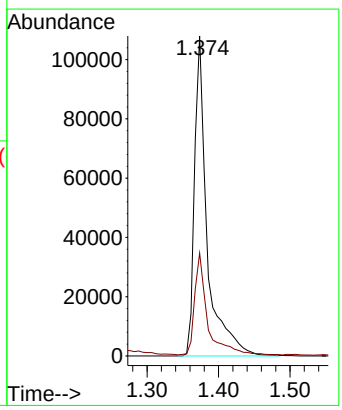


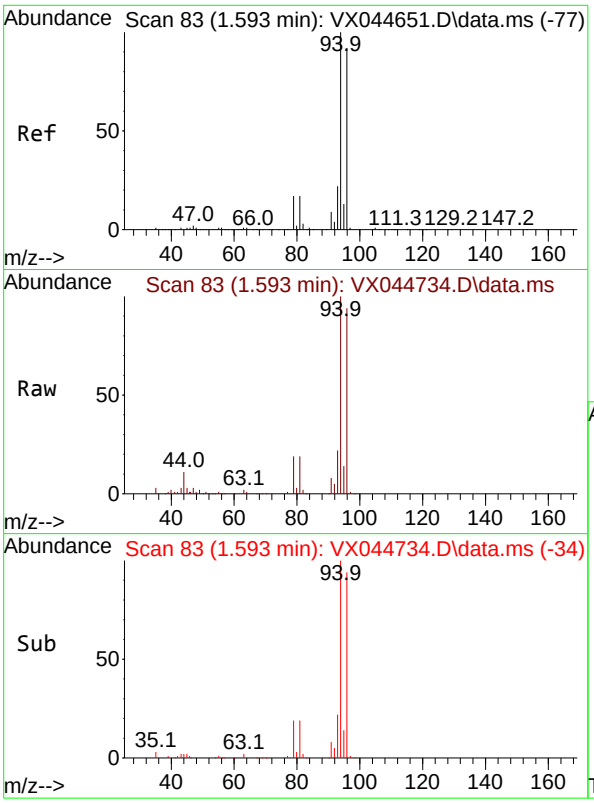




#4
Vinyl Chloride
Concen: 53.282 ug/l
RT: 1.374 min Scan# 47
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 62 Resp: 132495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 64 | 31.8 | 26.6 | 39.8 |



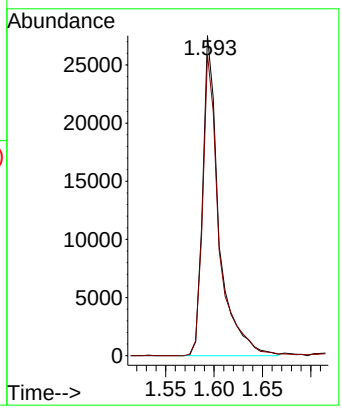


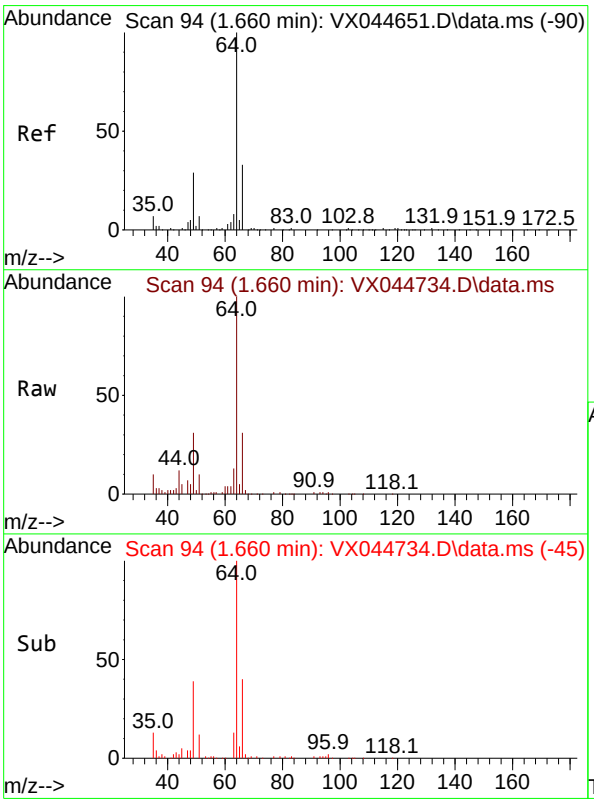

#5
Bromomethane
Concen: 54.267 ug/l
RT: 1.593 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 94 Resp: 32222

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 94 | 100 | | |
| 96 | 94.2 | 72.8 | 109.2 |

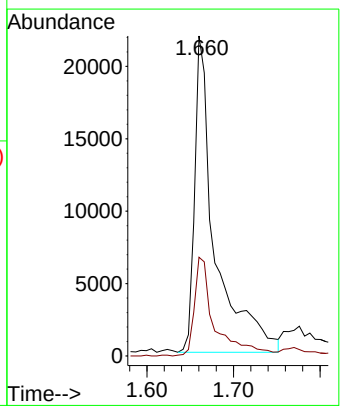


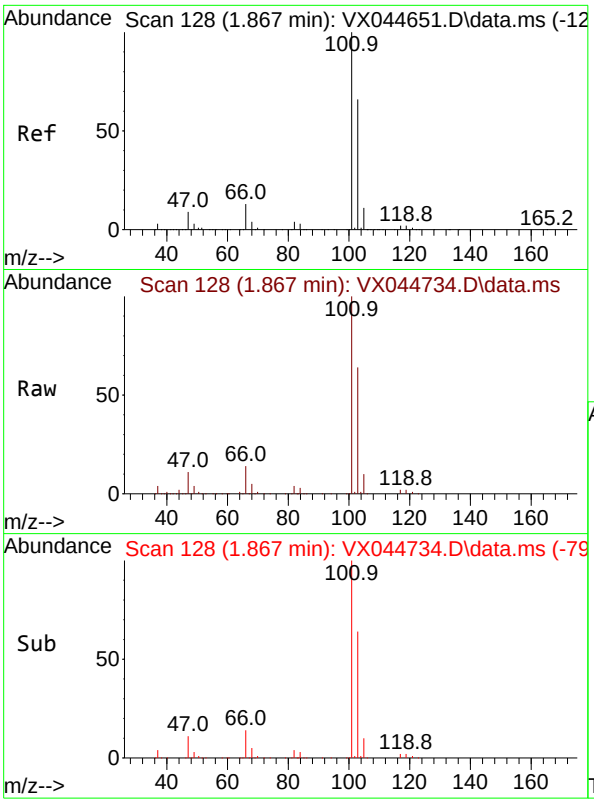




#6
Chloroethane
Concen: 78.041 ug/l
RT: 1.660 min Scan# 94
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 64 Resp: 35587

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 64 | 100 | | |
| 66 | 30.9 | 26.6 | 39.8 |



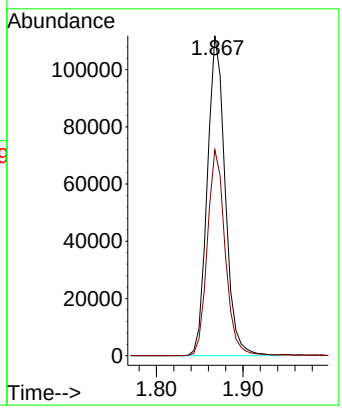


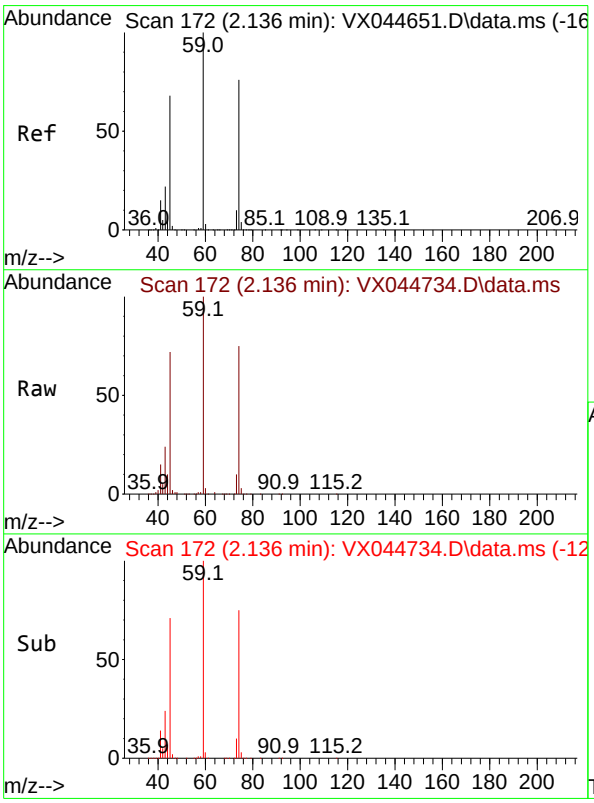

#7
Trichlorofluoromethane
Concen: 58.228 ug/l
RT: 1.867 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 160029

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 103 | 64.3 | 52.5 | 78.7 |

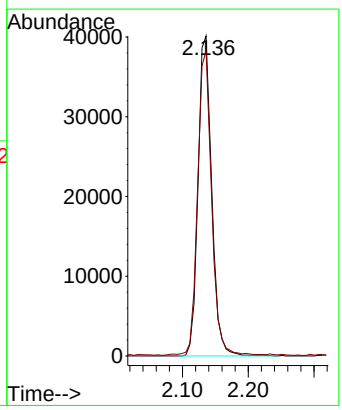


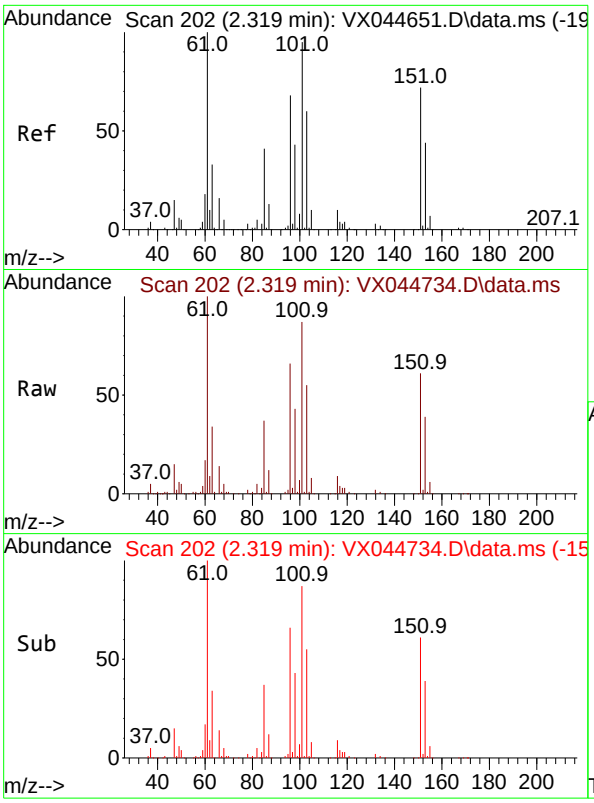




#8
Diethyl Ether
Concen: 52.188 ug/l
RT: 2.136 min Scan# 172
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 74 Resp: 57882

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 74 | 100 | | |
| 45 | 97.7 | 47.1 | 141.3 |



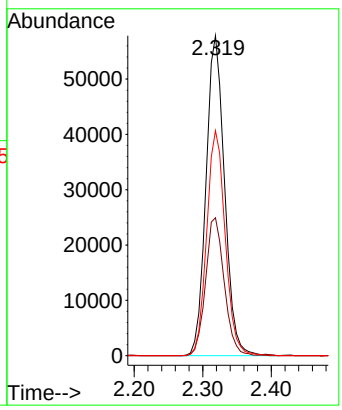


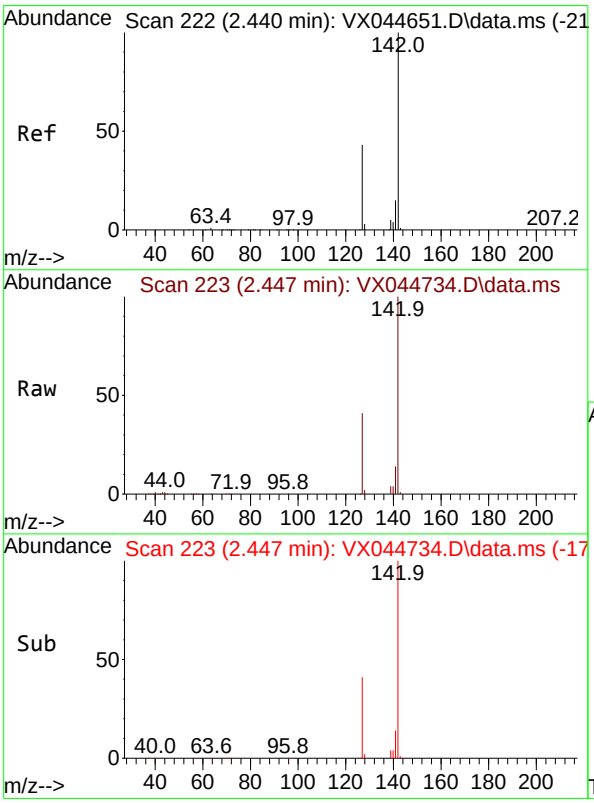

#9
1,1,2-Trichlorotrifluoroethane
Concen: 52.594 ug/l
RT: 2.319 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:101 Resp: 108656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 101 | 100 | | |
| 85 | 43.5 | 35.3 | 52.9 |
| 151 | 70.4 | 58.2 | 87.4 |

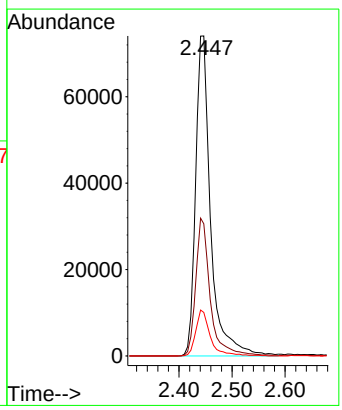


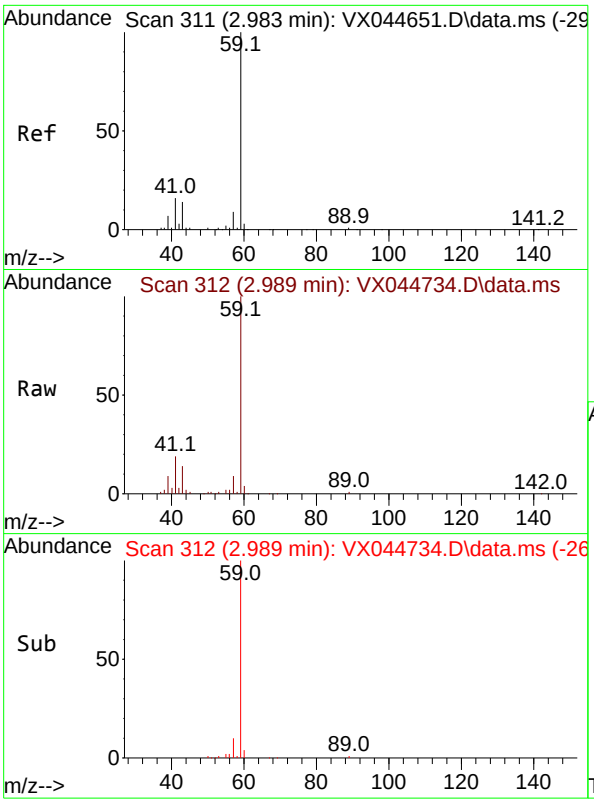




#10
Methyl Iodide
Concen: 51.790 ug/l
RT: 2.447 min Scan# 223
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:142 Resp: 146080

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 142 | 100 | | |
| 127 | 41.8 | 35.0 | 52.4 |
| 141 | 14.0 | 11.7 | 17.5 |



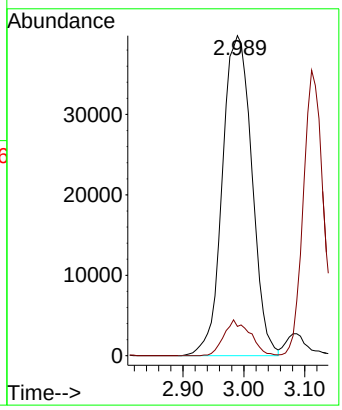


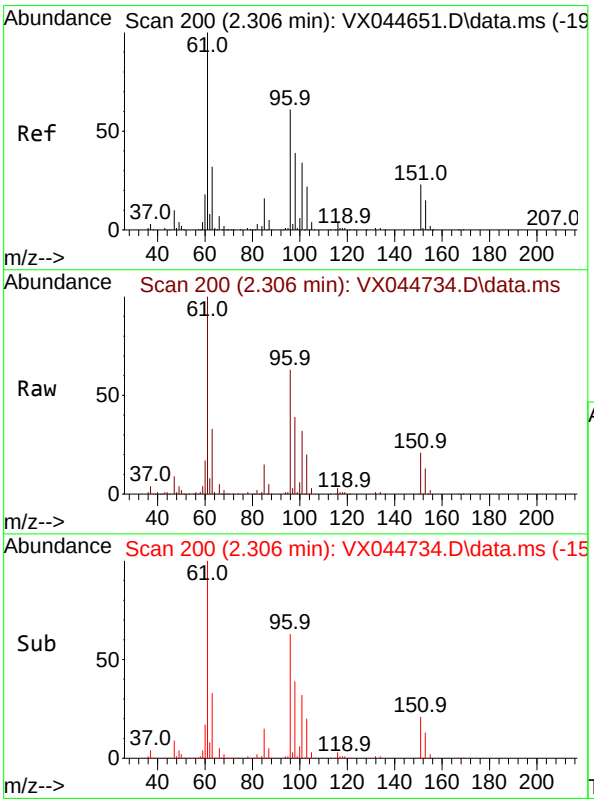

#11
Tert butyl alcohol
Concen: 229.927 ug/l
RT: 2.989 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 59 Resp: 133813

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 59 | 100 | | |
| 57 | 10.0 | 3.9 | 5.9# |

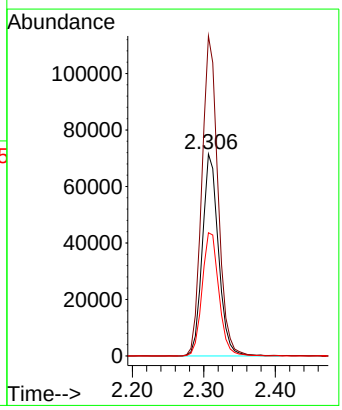


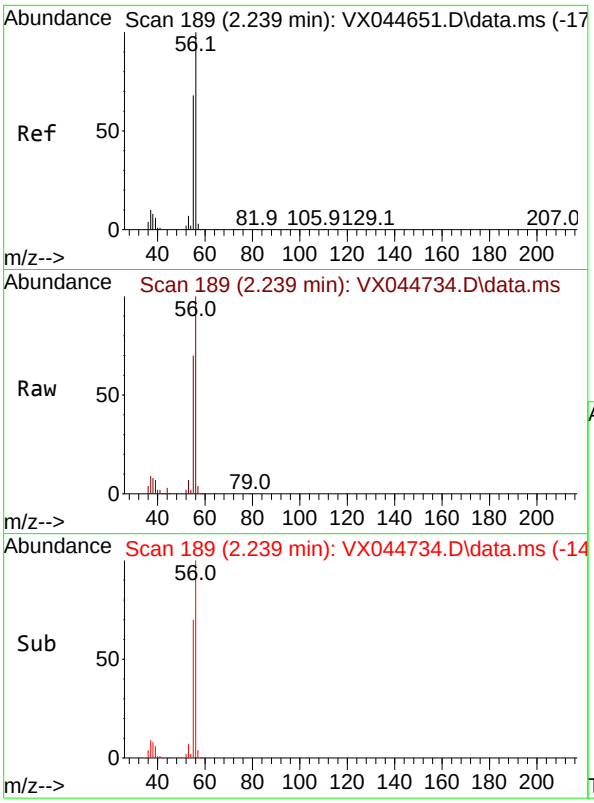




#12
1,1-Dichloroethene
Concen: 55.215 ug/l
RT: 2.306 min Scan# 200
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 96 Resp: 111815

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 158.5 | 131.1 | 196.7 |
| 98 | 61.1 | 51.2 | 76.8 |



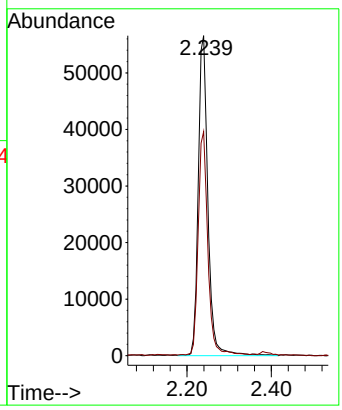


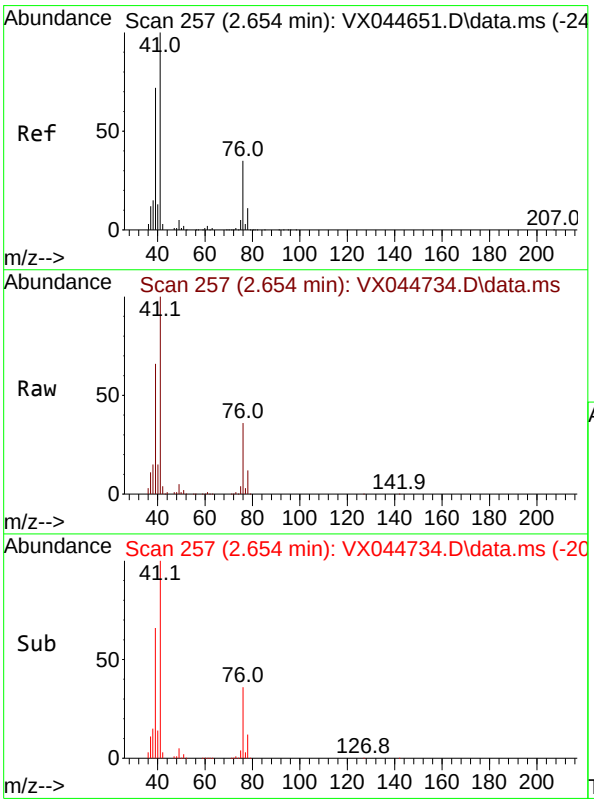

#13
Acrolein
Concen: 329.074 ug/l
RT: 2.239 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 90124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 55 | 69.4 | 55.1 | 82.7 |

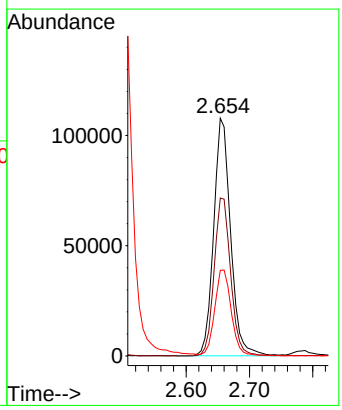


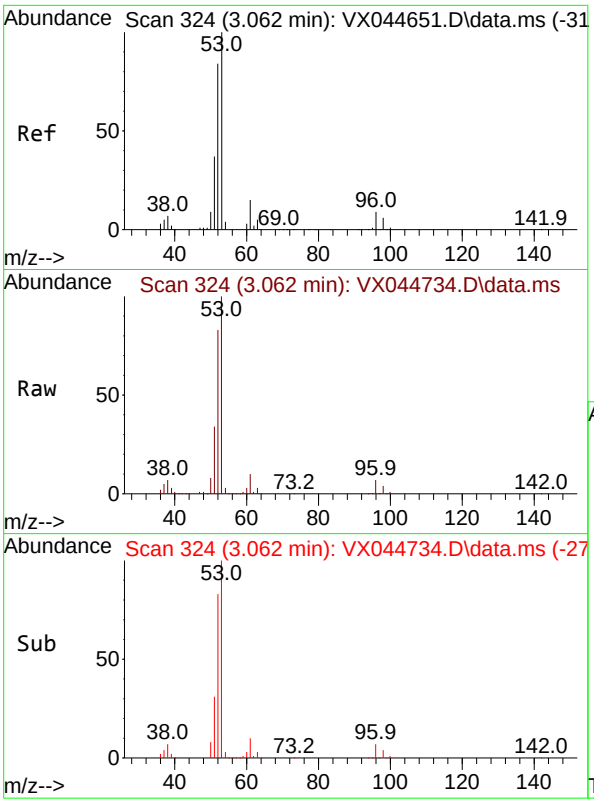




#14
Allyl chloride
Concen: 50.867 ug/l
RT: 2.654 min Scan# 257
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 41 Resp: 200564

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 64.9 | 54.9 | 82.3 |
| 76 | 35.4 | 28.4 | 42.6 |



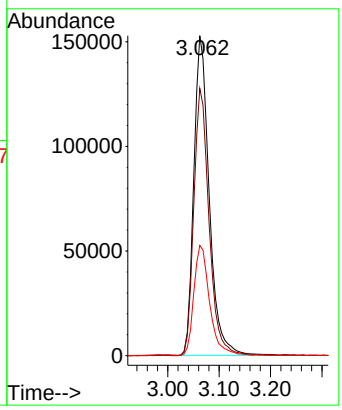


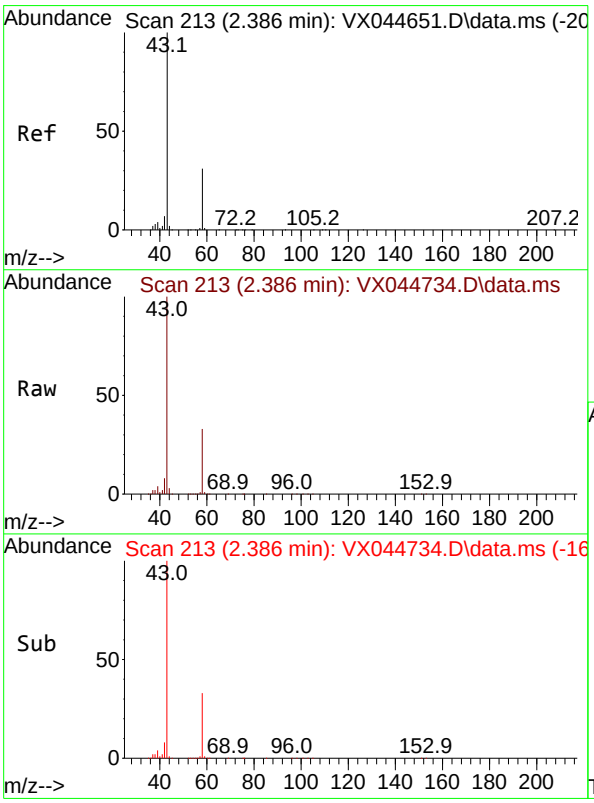

#15
Acrylonitrile
Concen: 279.107 ug/l
RT: 3.062 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 53 Resp: 318594

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 53 | 100 | | |
| 52 | 83.3 | 66.0 | 99.0 |
| 51 | 35.2 | 28.9 | 43.3 |

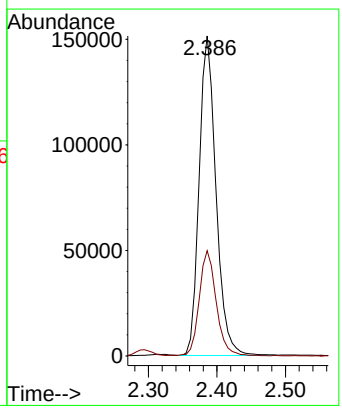


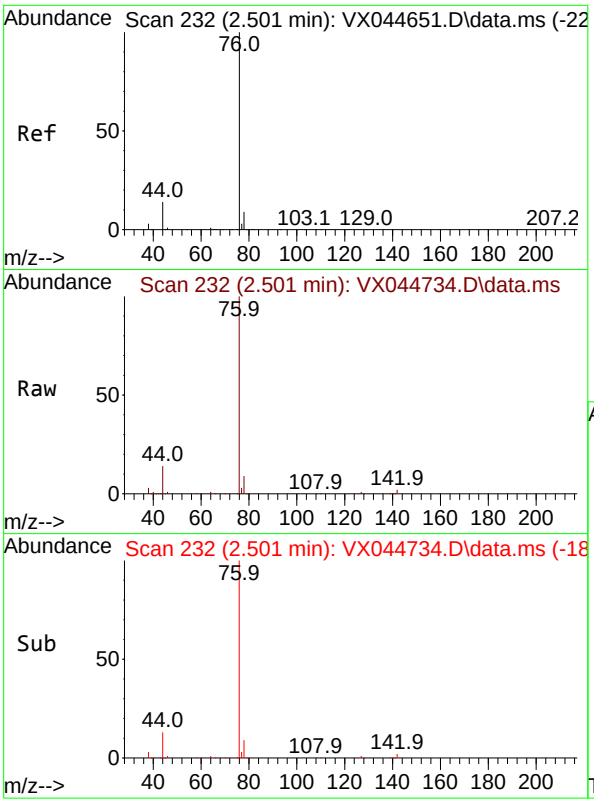




#16
Acetone
Concen: 251.283 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 259537

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 32.8 | 24.6 | 37.0 |



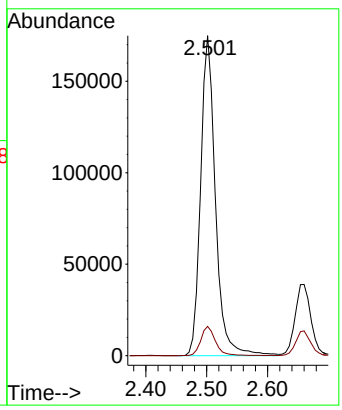


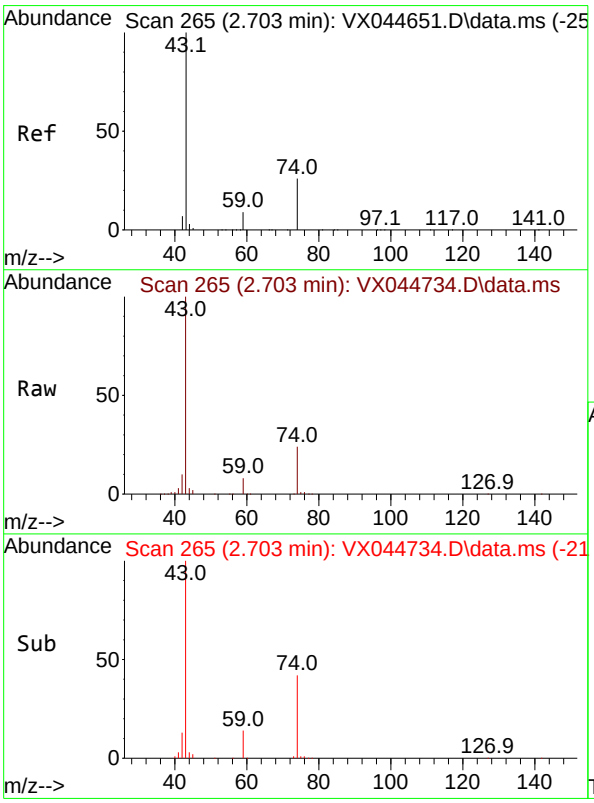

#17
Carbon Disulfide
Concen: 53.527 ug/l
RT: 2.501 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 295781

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 9.2 | 7.1 | 10.7 |

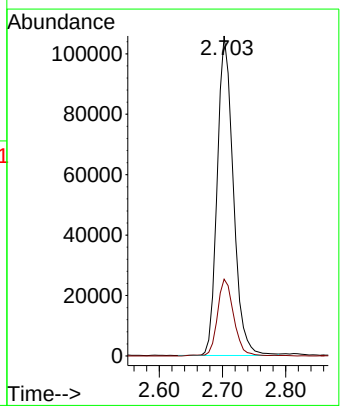


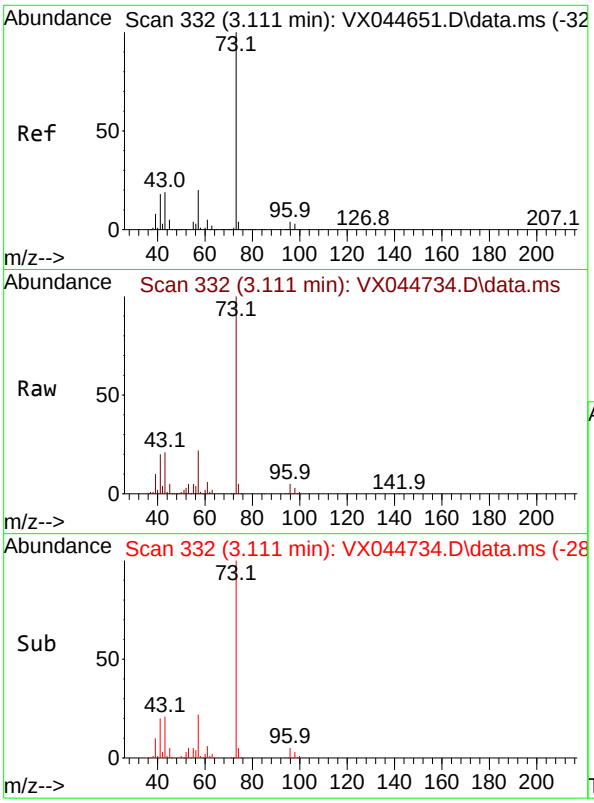




#18
Methyl Acetate
Concen: 58.407 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 186114

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 74 | 24.4 | 19.8 | 29.8 |



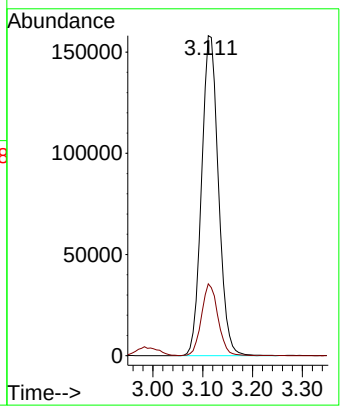


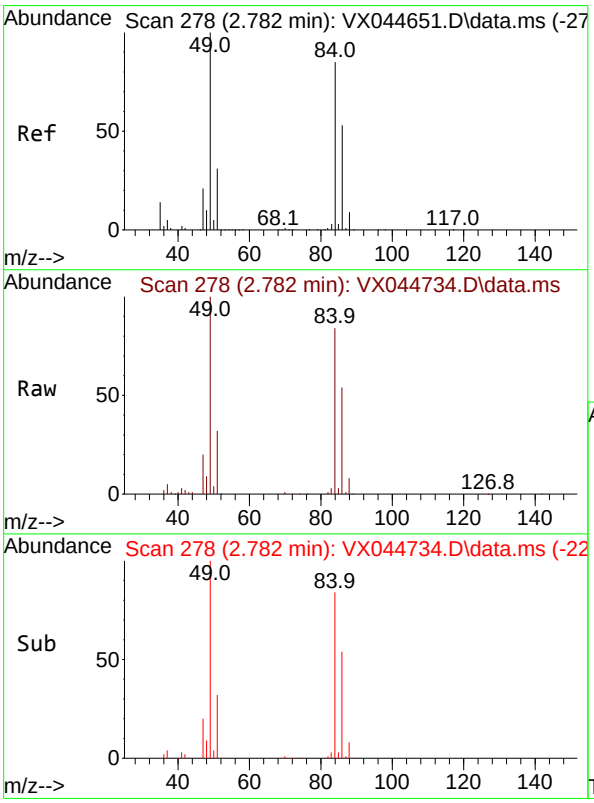

#19
Methyl tert-butyl Ether
Concen: 50.627 ug/l
RT: 3.111 min Scan# 3
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 73 Resp: 371345

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 73 | 100 | | |
| 57 | 22.4 | 17.4 | 26.0 |

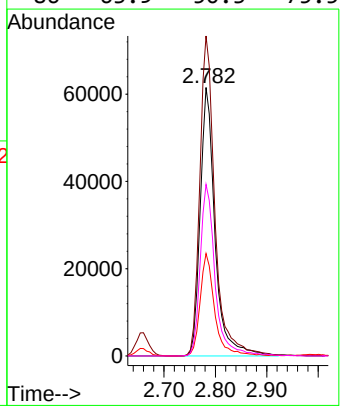


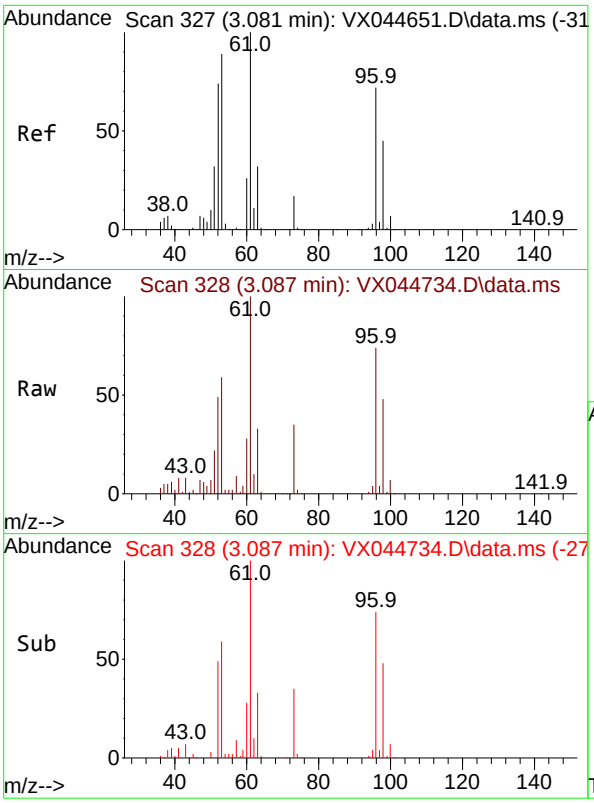




#20
Methylene Chloride
Concen: 51.328 ug/l
RT: 2.782 min Scan# 278
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 84 Resp: 123457

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 84 | 100 | | |
| 49 | 119.2 | 94.2 | 141.4 |
| 51 | 38.2 | 28.8 | 43.2 |
| 86 | 63.9 | 50.3 | 75.5 |



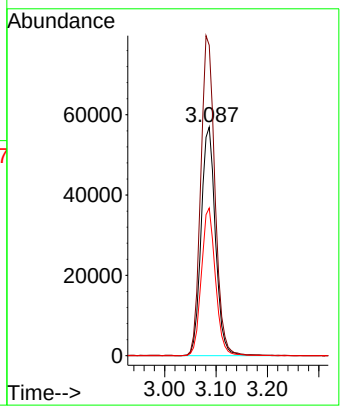


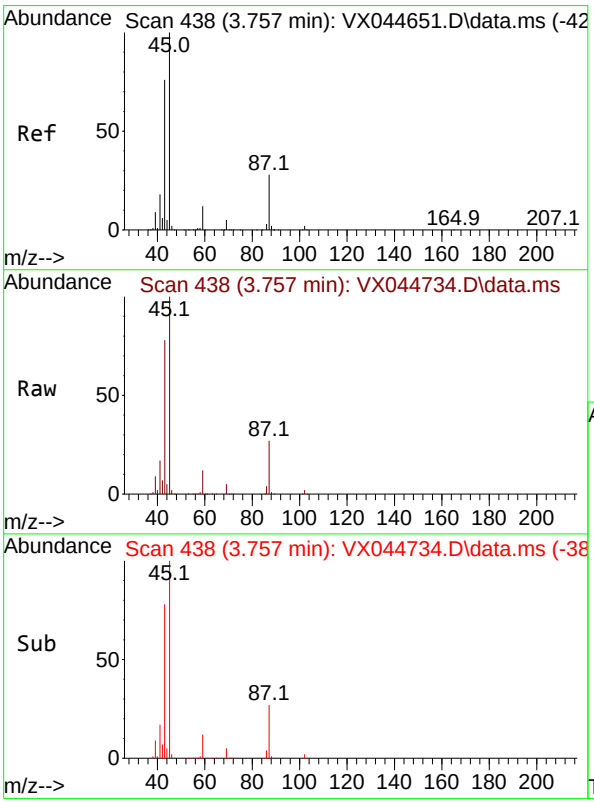

#21
trans-1,2-Dichloroethene
Concen: 52.052 ug/l
RT: 3.087 min Scan# 3
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 110052

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 135.8 | 111.0 | 166.6 |
| 98 | 64.6 | 50.2 | 75.2 |

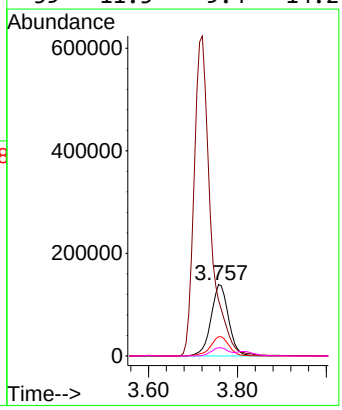


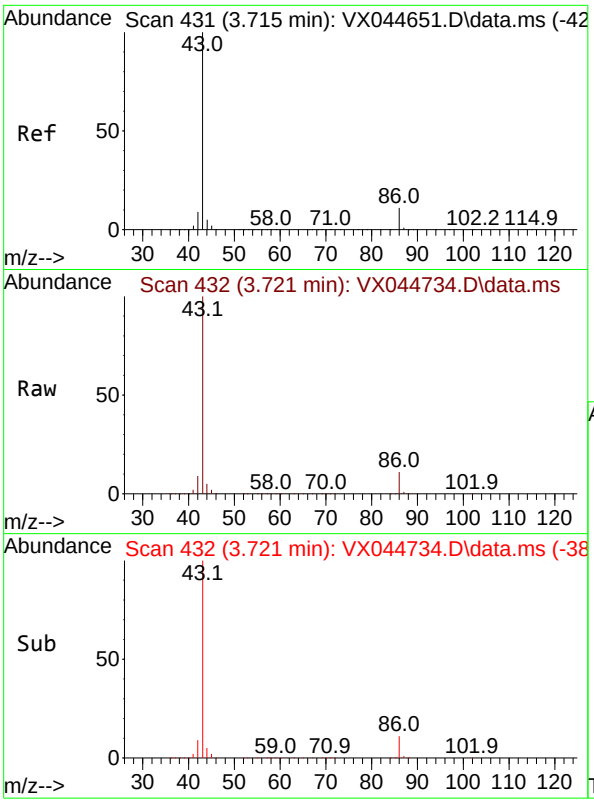




#22
Diisopropyl ether
Concen: 55.621 ug/l
RT: 3.757 min Scan# 438
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 45 Resp: 381220

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 45 | 100 | | |
| 43 | 78.1 | 61.0 | 91.6 |
| 87 | 26.8 | 22.7 | 34.1 |
| 59 | 11.5 | 9.4 | 14.2 |



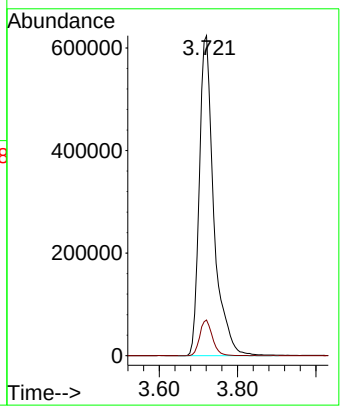


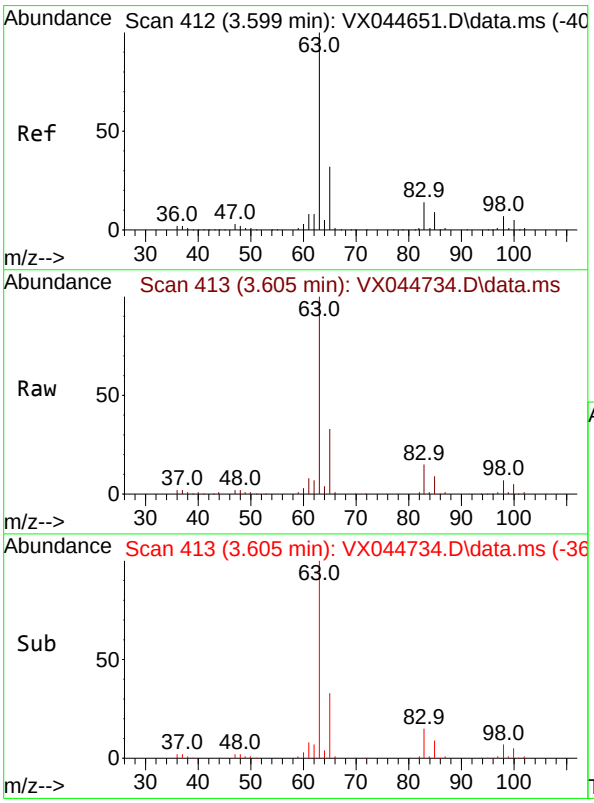

#23
Vinyl Acetate
Concen: 267.851 ug/l
RT: 3.721 min Scan# 4
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 1606823

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 86 | 11.1 | 8.9 | 13.3 |

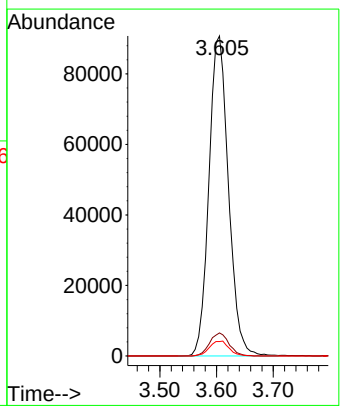


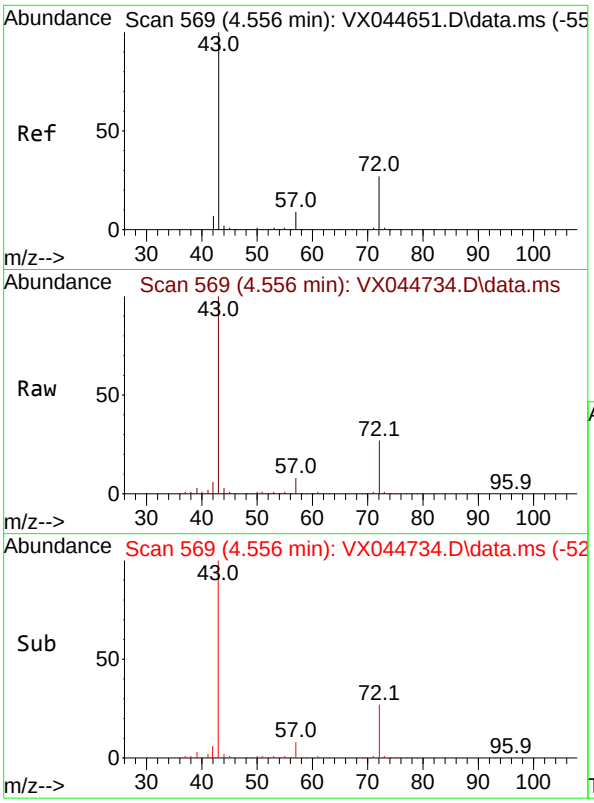




#24
1,1-Dichloroethane
Concen: 53.411 ug/l
RT: 3.605 min Scan# 413
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 63 Resp: 217085

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 98 | 7.2 | 3.6 | 10.9 |
| 100 | 4.5 | 2.5 | 7.5 |



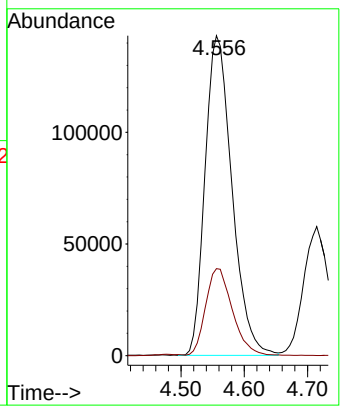


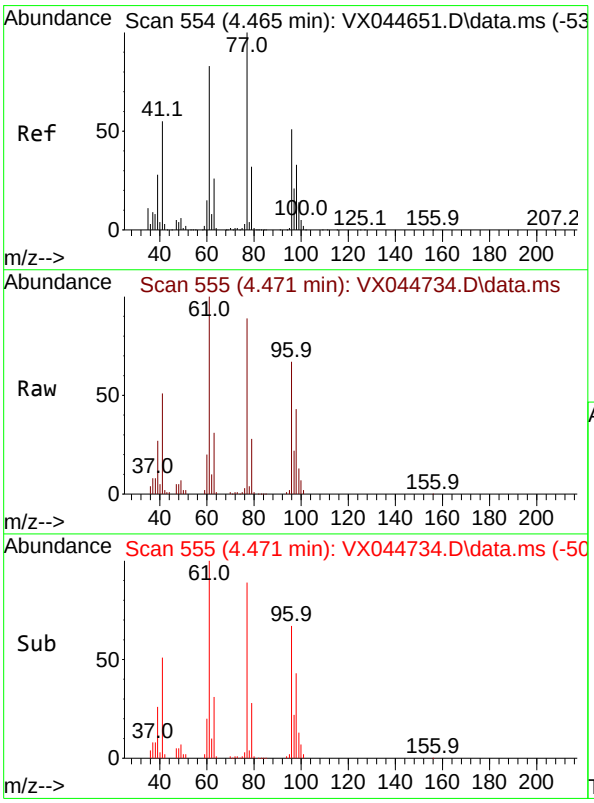

#25
2-Butanone
Concen: 275.626 ug/l
RT: 4.556 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 423266

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 72 | 27.0 | 21.7 | 32.5 |

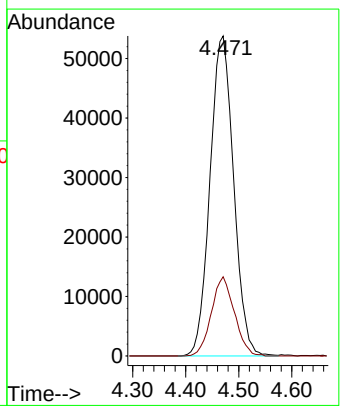


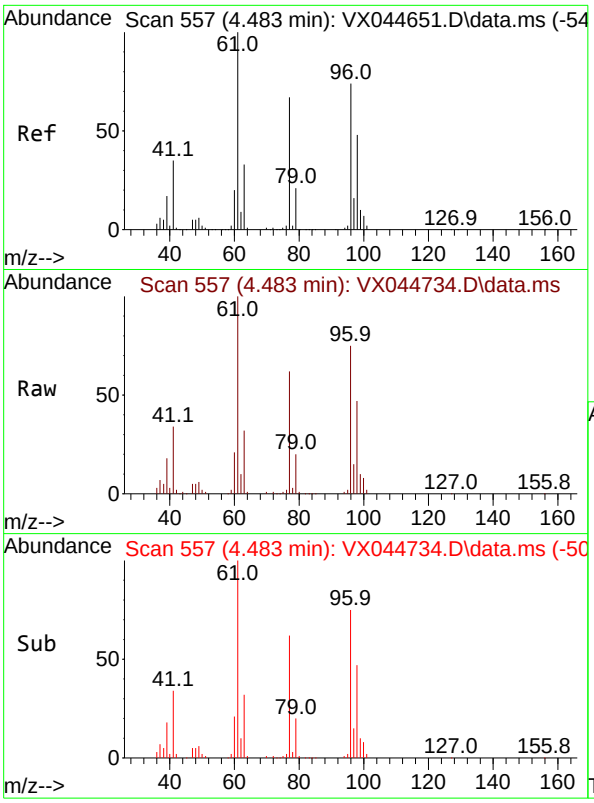




#26
2,2-Dichloropropane
Concen: 42.282 ug/l
RT: 4.471 min Scan# 555
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 77 Resp: 166555

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 77 | 100 | | |
| 97 | 24.1 | 10.9 | 32.6 |



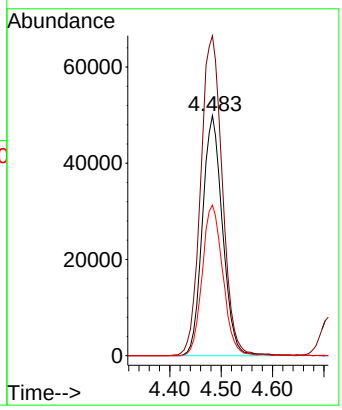


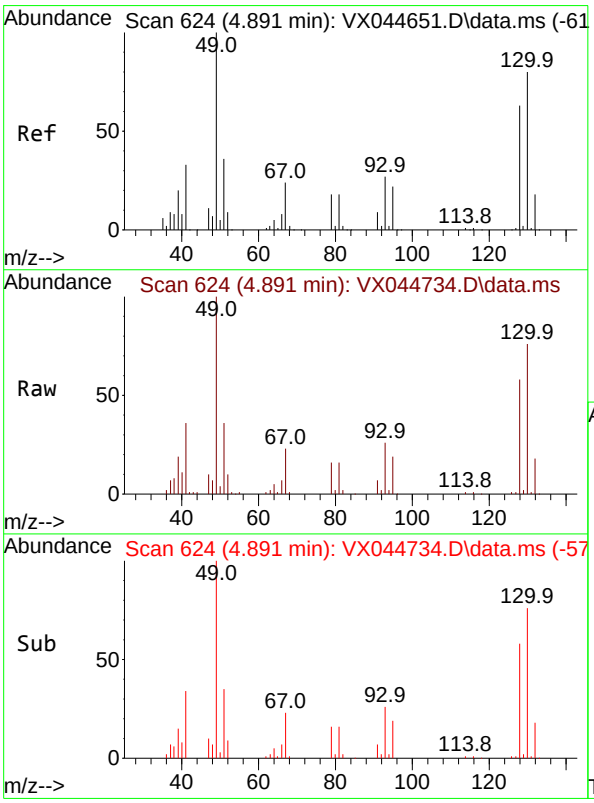

#27
cis-1,2-Dichloroethene
Concen: 50.998 ug/l
RT: 4.483 min Scan# 5
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 96 Resp: 135627

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 96 | 100 | | |
| 61 | 143.5 | 0.0 | 296.0 |
| 98 | 64.0 | 0.0 | 130.0 |

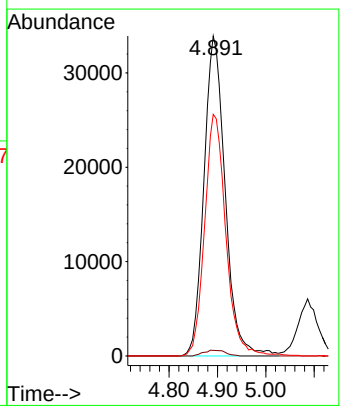


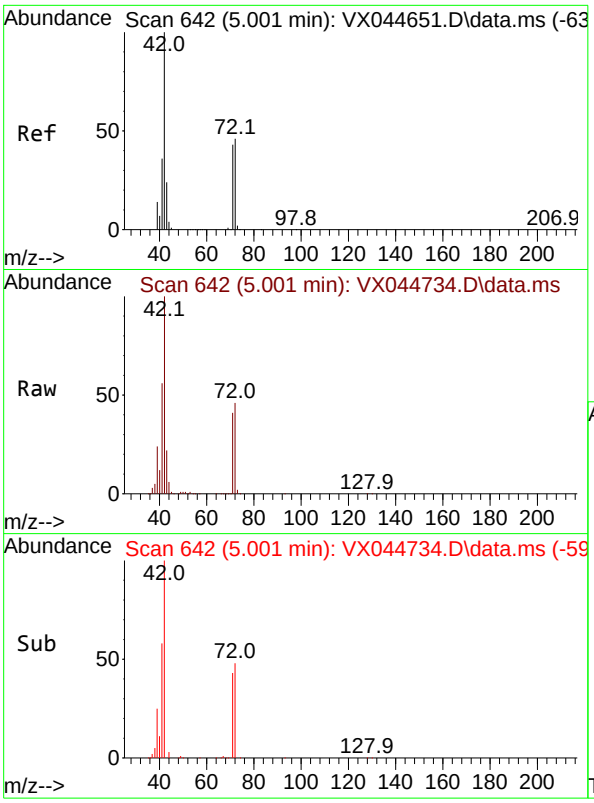




#28
Bromochloromethane
Concen: 54.405 ug/l
RT: 4.891 min Scan# 624
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 49 Resp: 103327

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 49 | 100 | | |
| 129 | 1.9 | 0.0 | 4.4 |
| 130 | 75.1 | 63.4 | 95.2 |



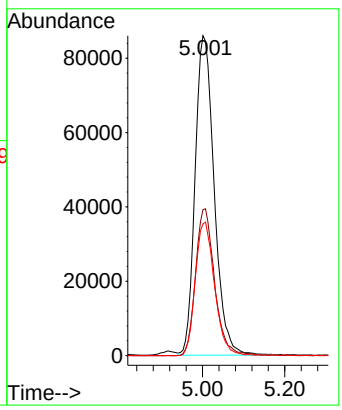


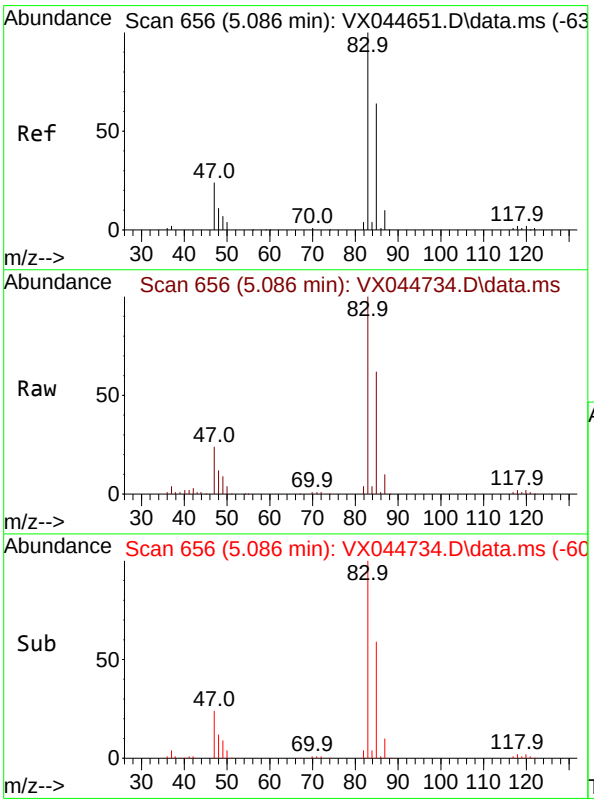

#29
Tetrahydrofuran
Concen: 279.917 ug/l
RT: 5.001 min Scan# 64
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 42 Resp: 277269

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 42 | 100 | | |
| 72 | 46.0 | 38.2 | 57.4 |
| 71 | 42.1 | 35.3 | 52.9 |

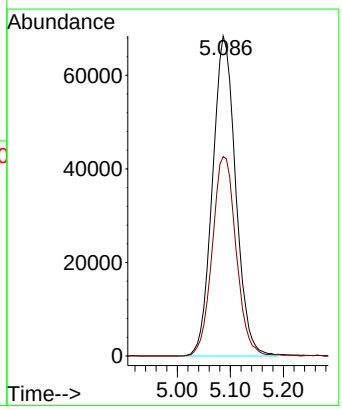


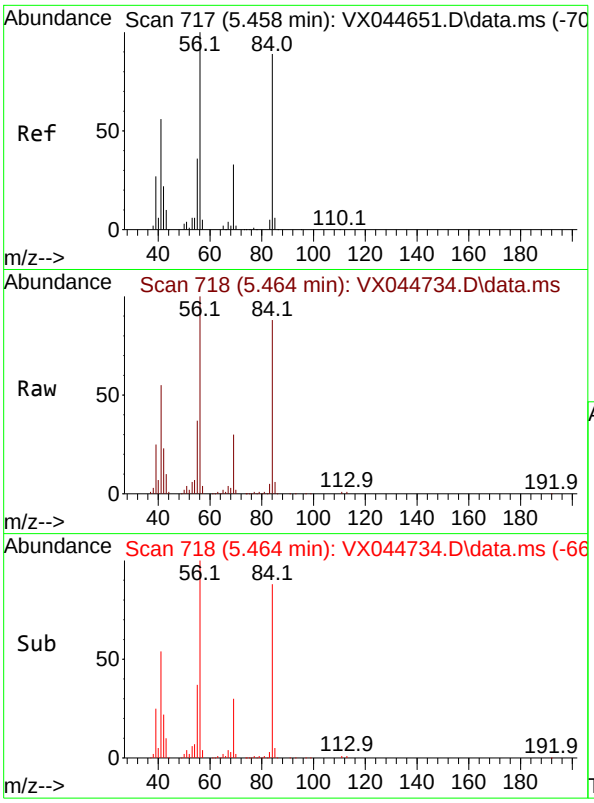




#30
Chloroform
Concen: 50.629 ug/l
RT: 5.086 min Scan# 656
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 83 Resp: 207669

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 62.3 | 51.2 | 76.8 |



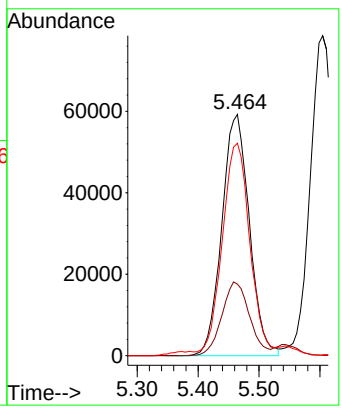


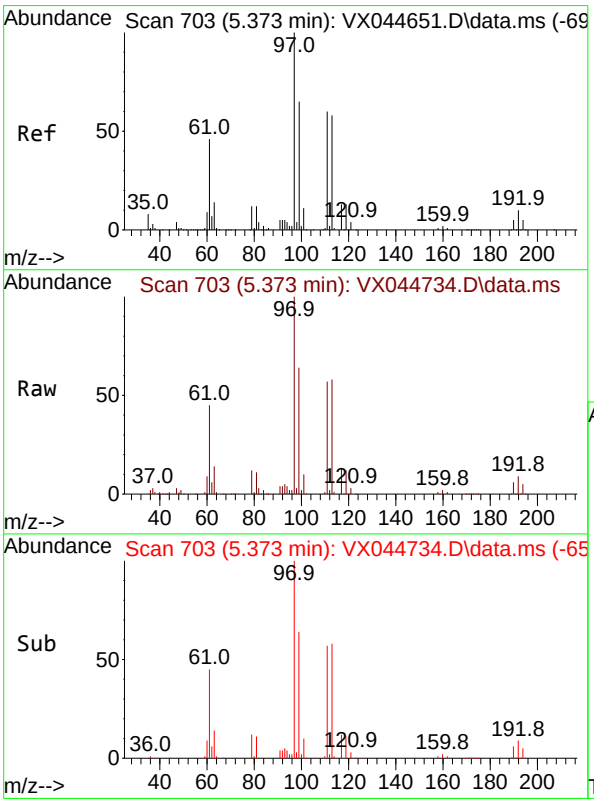

#31
Cyclohexane
Concen: 56.510 ug/l
RT: 5.464 min Scan# 7
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 56 Resp: 185760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 56 | 100 | | |
| 69 | 29.6 | 26.8 | 40.2 |
| 84 | 86.4 | 71.0 | 106.4 |

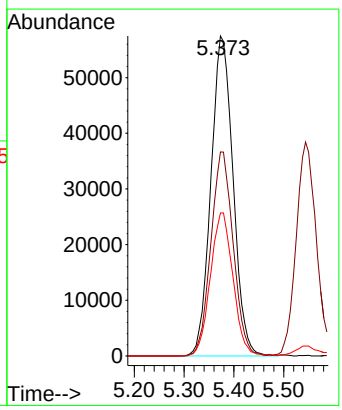


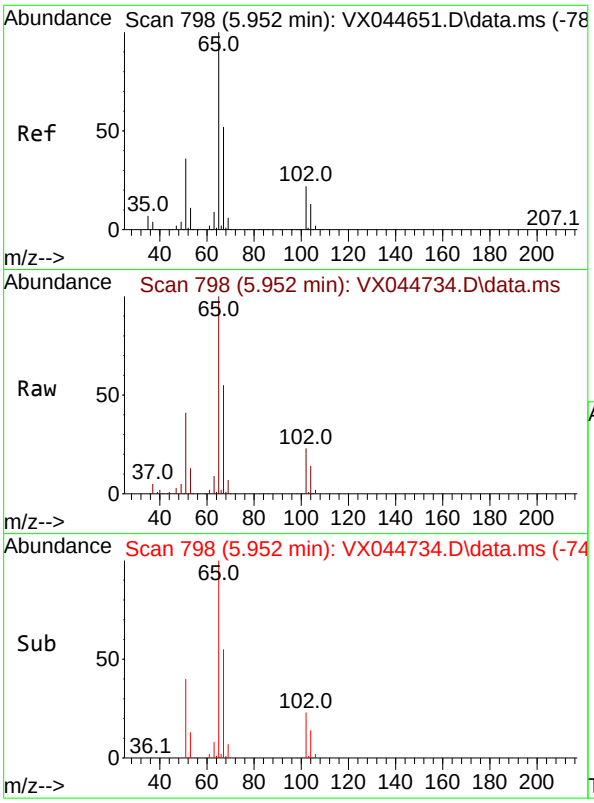




#32
1,1,1-Trichloroethane
Concen: 47.142 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 97 Resp: 177763

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 99 | 64.2 | 51.6 | 77.4 |
| 61 | 45.6 | 35.6 | 53.4 |



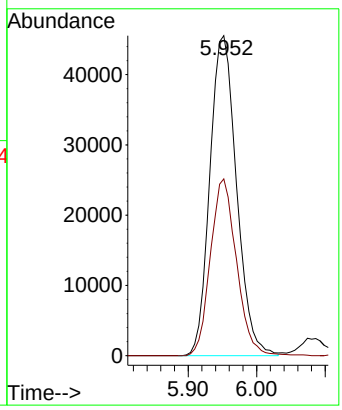


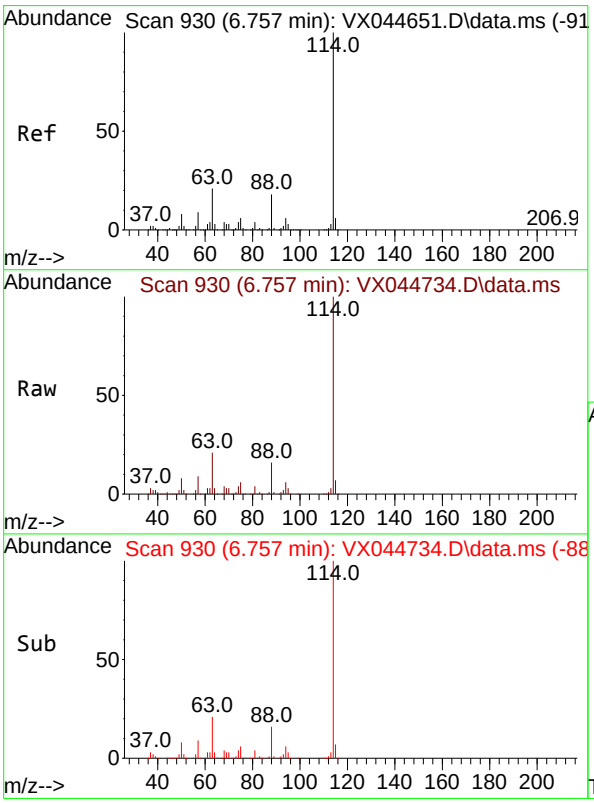

#33
1,2-Dichloroethane-d4
Concen: 47.199 ug/l
RT: 5.952 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 65 Resp: 123215

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 65 | 100 | | |
| 67 | 54.0 | 0.0 | 103.4 |

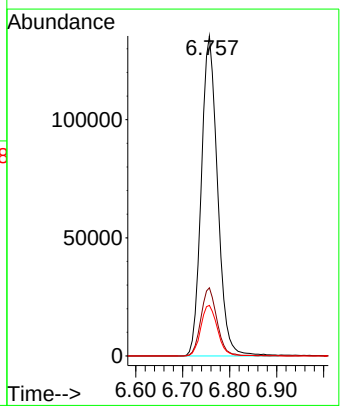


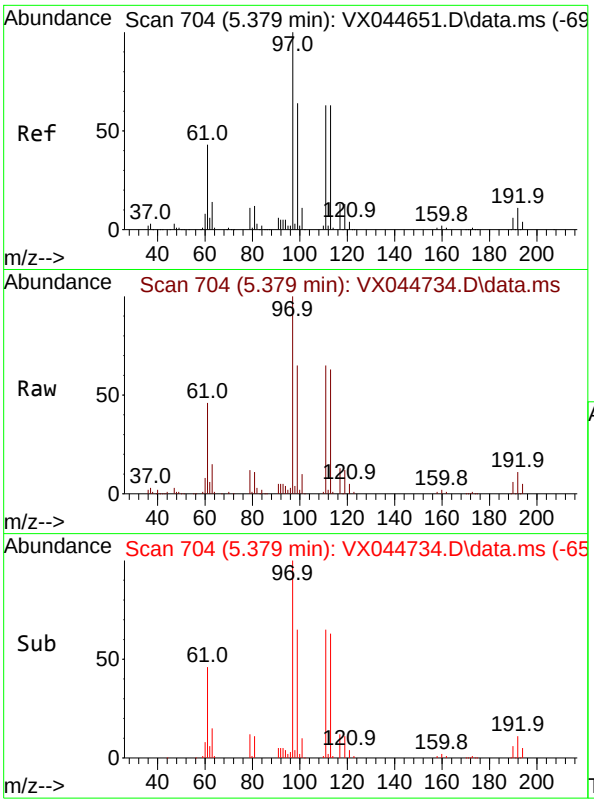




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.757 min Scan# 930
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:114 Resp: 325756

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 114 | 100 | | |
| 63 | 21.3 | 0.0 | 43.0 |
| 88 | 15.8 | 0.0 | 35.4 |



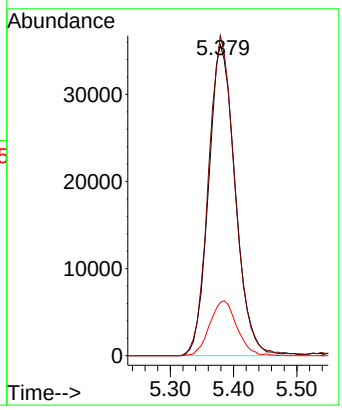


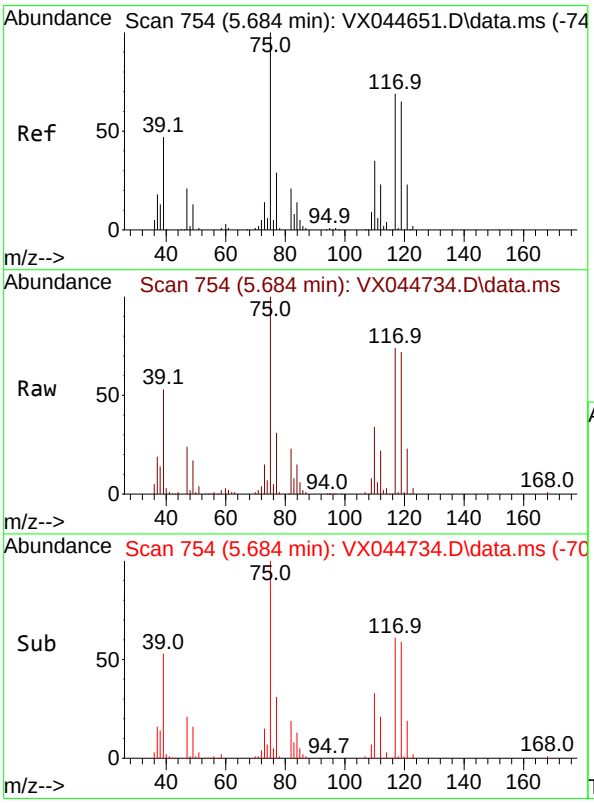

#35
Dibromofluoromethane
Concen: 50.447 ug/l
RT: 5.379 min Scan# 7
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:113 Resp: 104400

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 113 | 100 | | |
| 111 | 102.5 | 81.6 | 122.4 |
| 192 | 18.0 | 14.4 | 21.6 |

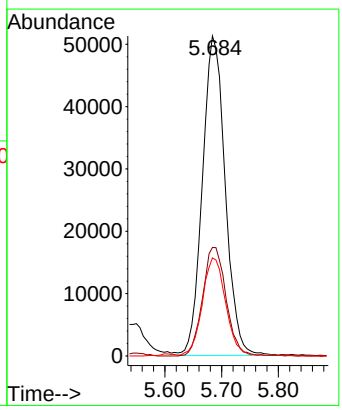


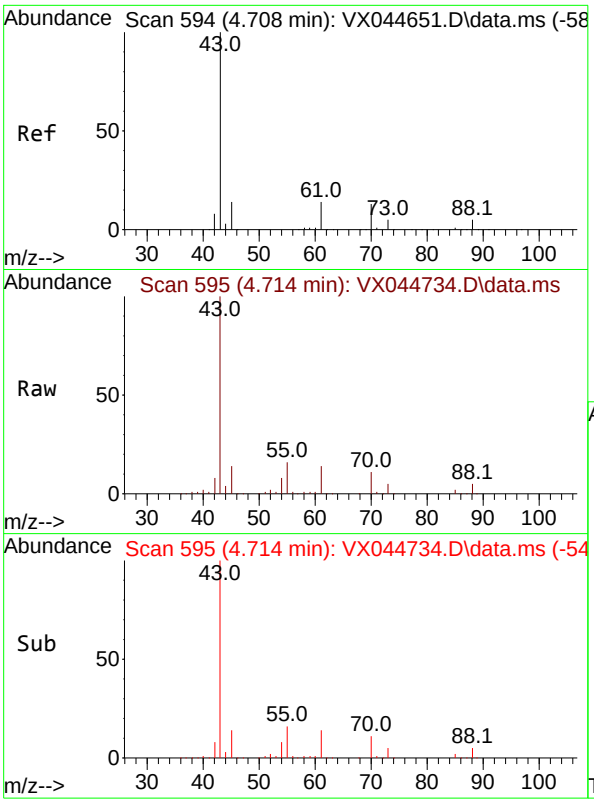




#36
1,1-Dichloropropene
Concen: 49.591 ug/l
RT: 5.684 min Scan# 754
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 75 Resp: 142861

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 110 | 35.1 | 17.9 | 53.8 |
| 77 | 31.2 | 24.5 | 36.7 |



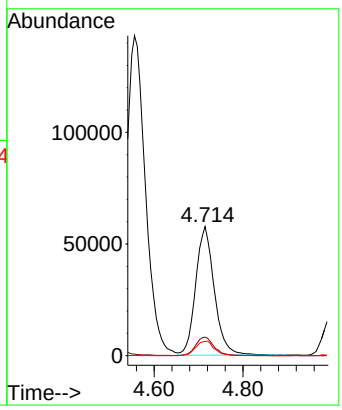


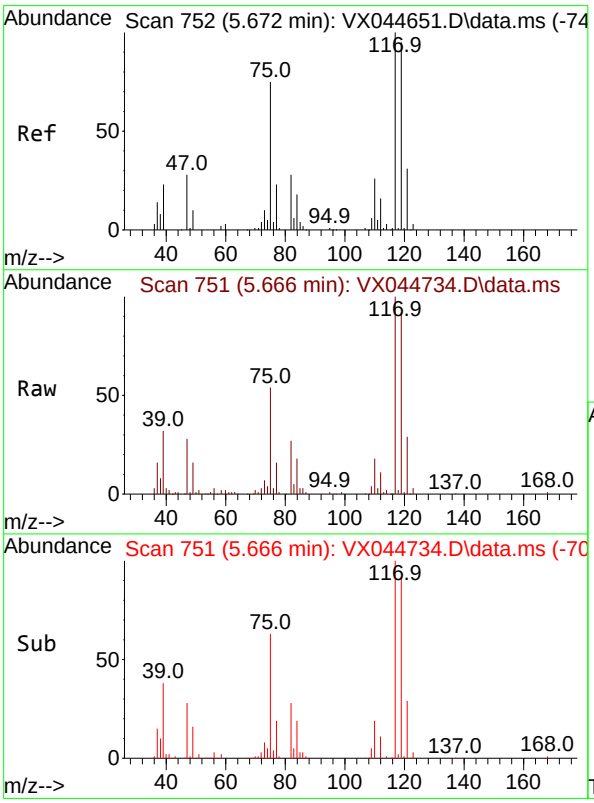

#37
Ethyl Acetate
Concen: 54.798 ug/l
RT: 4.714 min Scan# 5
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 168109

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 13.7 | 10.9 | 16.3 |
| 70 | 11.5 | 10.1 | 15.1 |

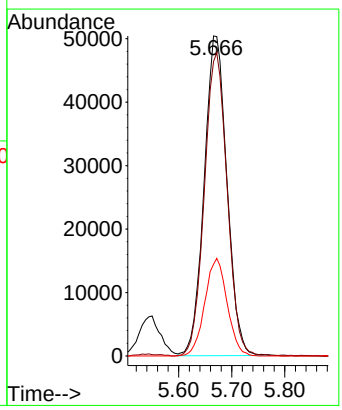


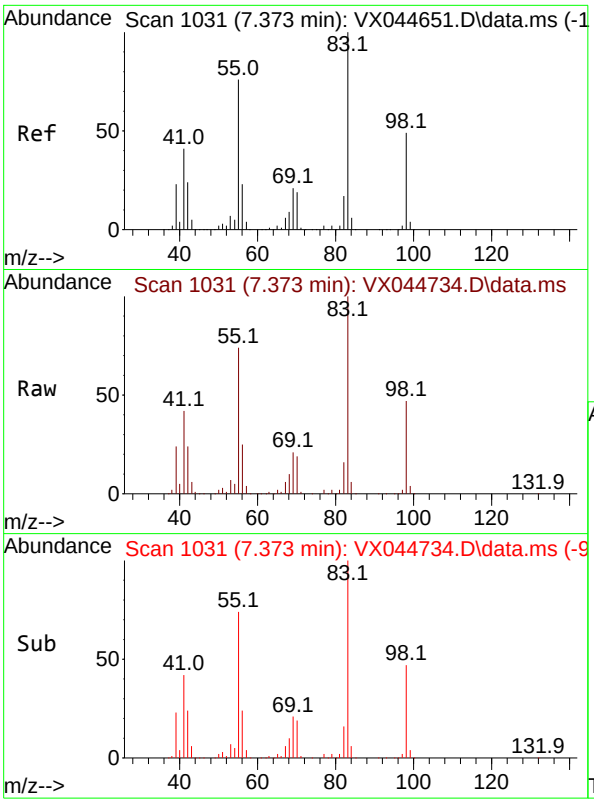




#38
Carbon Tetrachloride
Concen: 46.468 ug/l
RT: 5.666 min Scan# 751
Delta R.T. -0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:117 Resp: 150574

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 119 | 92.0 | 76.0 | 114.0 |
| 121 | 28.7 | 24.6 | 36.8 |



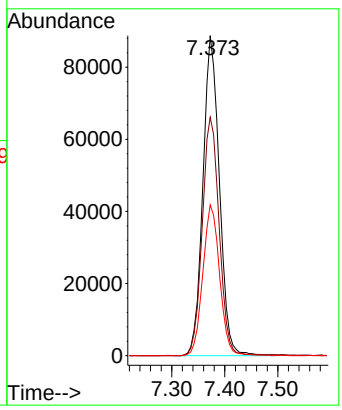


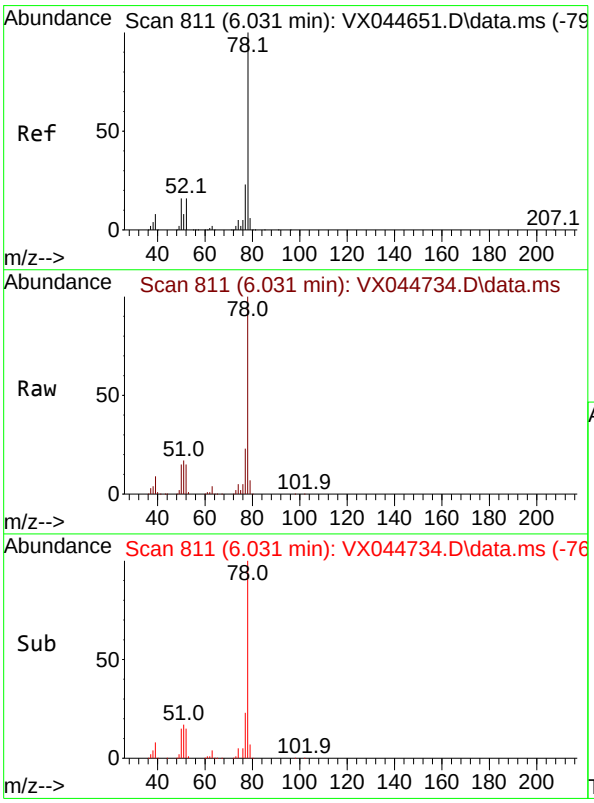

#39
Methylcyclohexane
Concen: 50.118 ug/l
RT: 7.373 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 191661

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 55 | 74.5 | 60.5 | 90.7 |
| 98 | 47.2 | 39.0 | 58.4 |

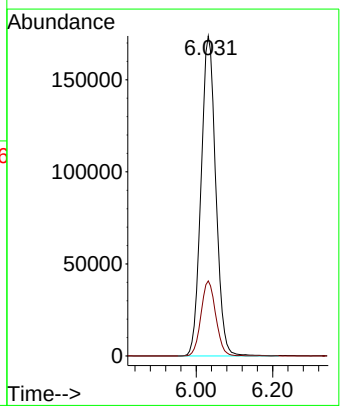


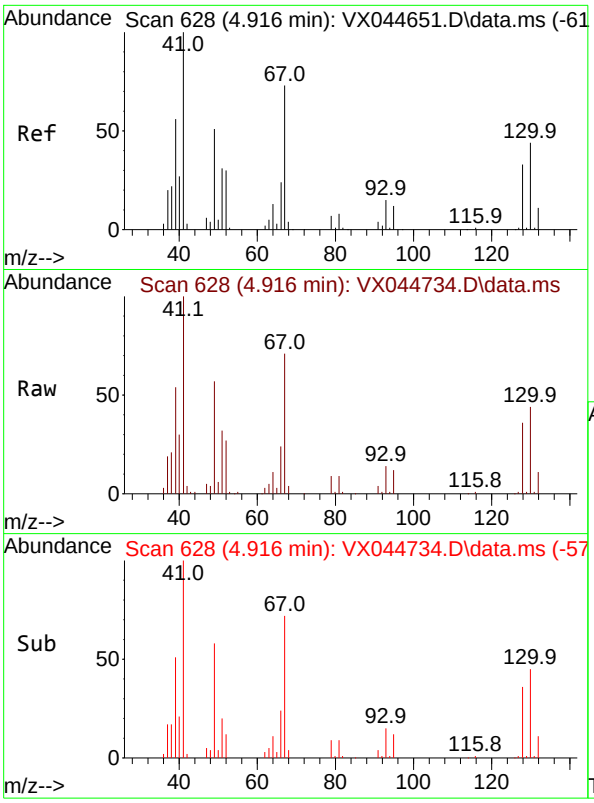




#40
Benzene
Concen: 52.035 ug/l
RT: 6.031 min Scan# 811
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 78 Resp: 464502

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 78 | 100 | | |
| 77 | 23.4 | 18.7 | 28.1 |



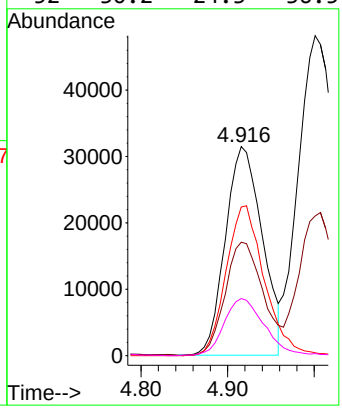


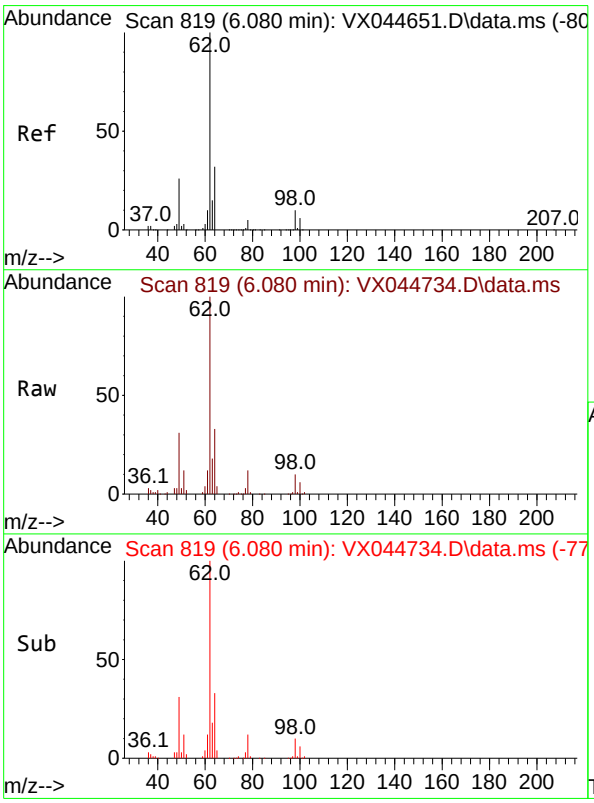

#41
Methacrylonitrile
Concen: 52.088 ug/l
RT: 4.916 min Scan# 6
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 41 Resp: 93115

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 39 | 57.0 | 44.4 | 66.6 |
| 67 | 74.6 | 60.6 | 90.8 |
| 52 | 30.2 | 24.3 | 36.5 |

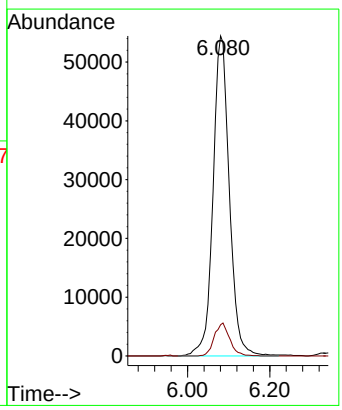


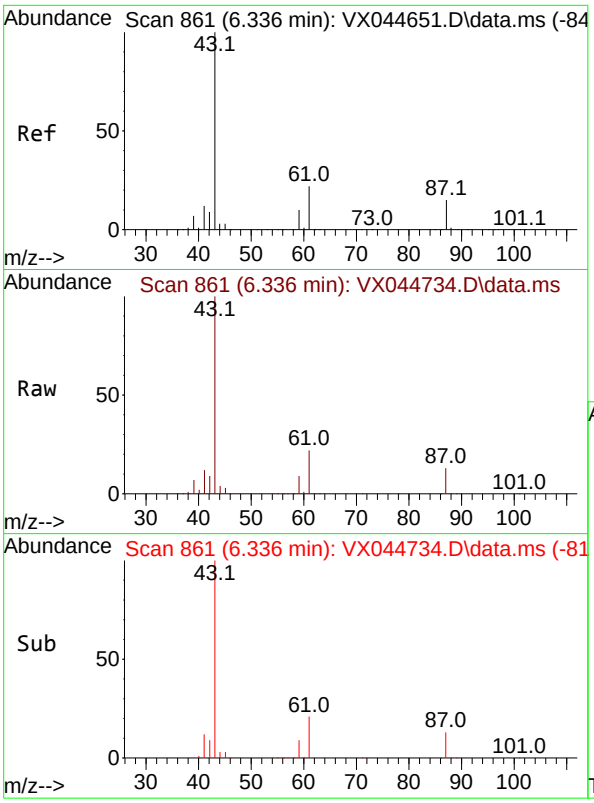




#42
1,2-Dichloroethane
Concen: 46.037 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 62 Resp: 149994

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 62 | 100 | | |
| 98 | 9.8 | 0.0 | 19.4 |



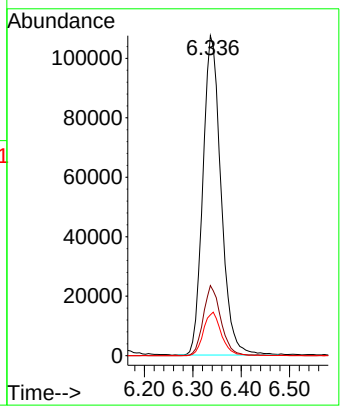


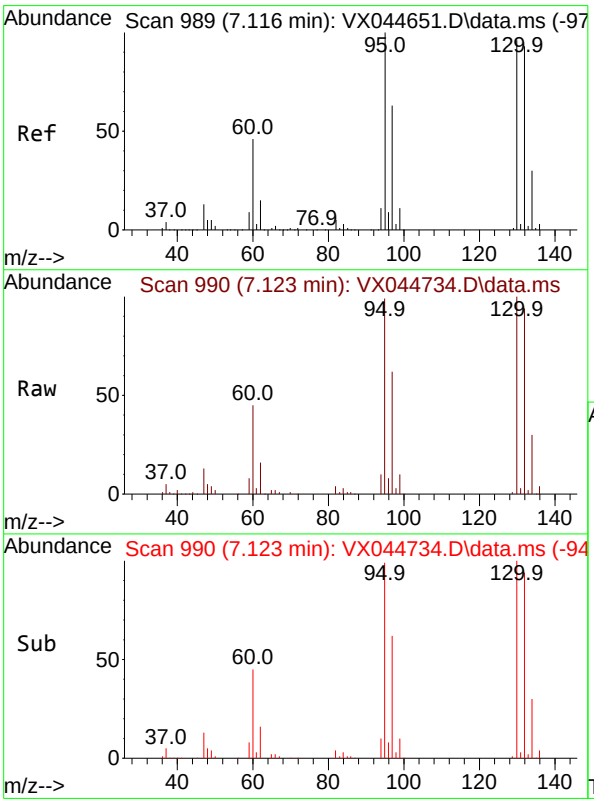

#43
Isopropyl Acetate
Concen: 49.636 ug/l
RT: 6.336 min Scan# 8
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 280126

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 61 | 21.4 | 16.6 | 24.8 |
| 87 | 13.5 | 11.0 | 16.6 |

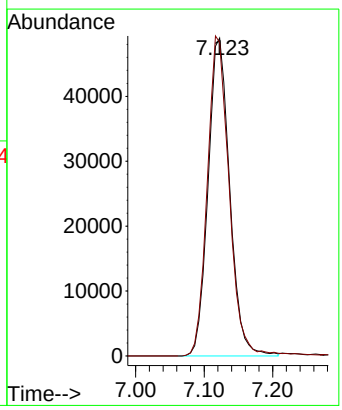


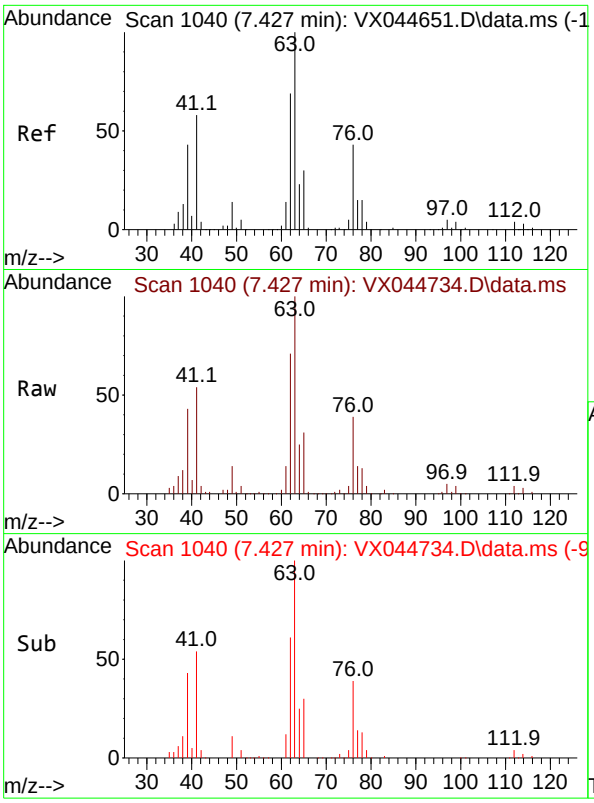




#44
Trichloroethene
Concen: 49.981 ug/l
RT: 7.123 min Scan# 990
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:130 Resp: 107262

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 130 | 100 | | |
| 95 | 98.7 | 0.0 | 208.2 |



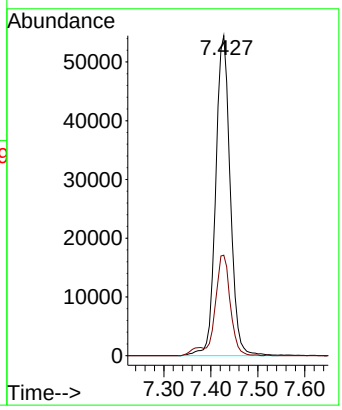


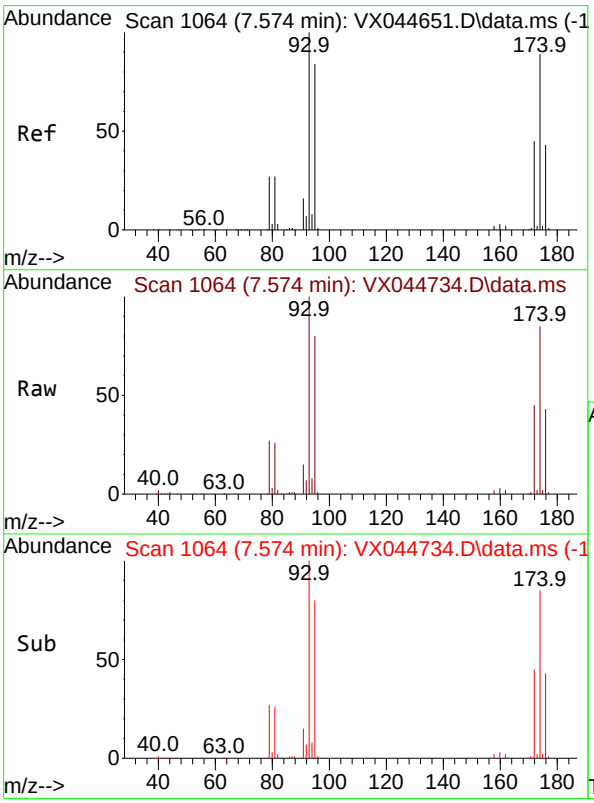

#45
1,2-Dichloropropane
Concen: 52.217 ug/l
RT: 7.427 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 63 Resp: 117332

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 65 | 31.4 | 24.2 | 36.2 |

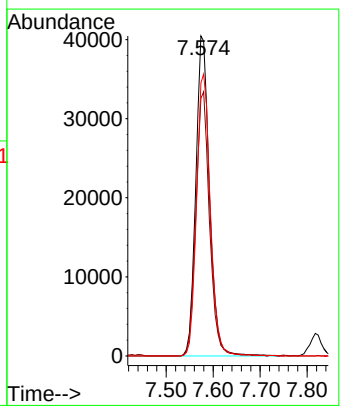


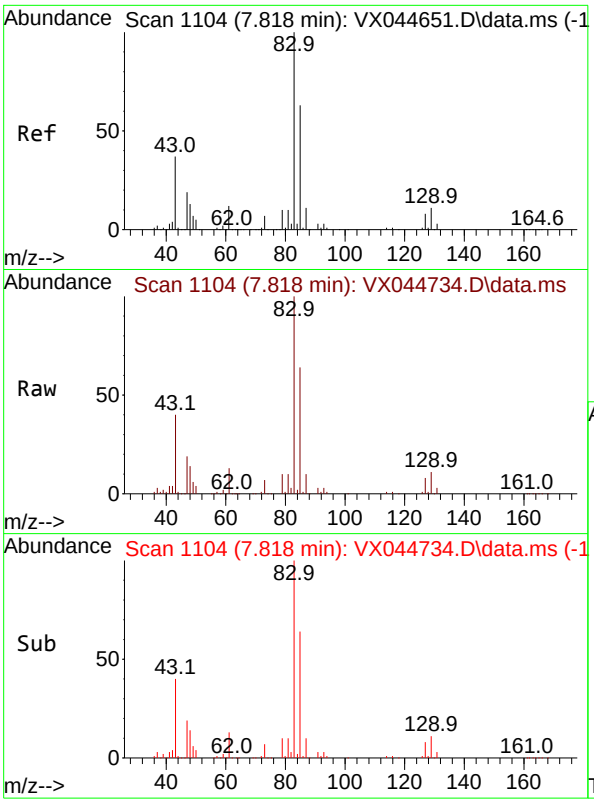




#46
Dibromomethane
Concen: 47.970 ug/l
RT: 7.574 min Scan# 1064
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 93 Resp: 82056

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 93 | 100 | | |
| 95 | 82.2 | 66.4 | 99.6 |
| 174 | 89.0 | 72.0 | 108.0 |



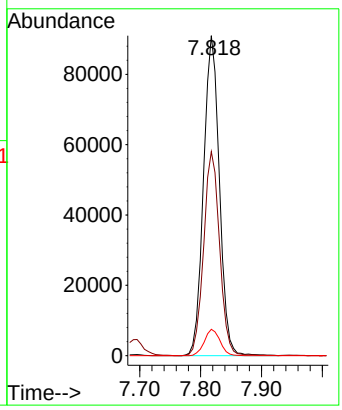


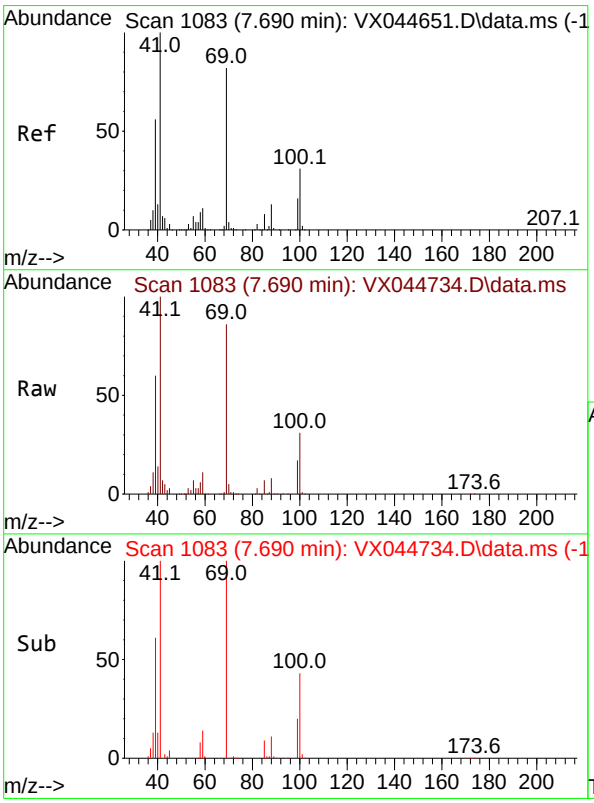

#47
Bromodichloromethane
Concen: 46.892 ug/l
RT: 7.818 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 164495

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 85 | 63.8 | 50.1 | 75.1 |
| 127 | 8.2 | 6.5 | 9.7 |

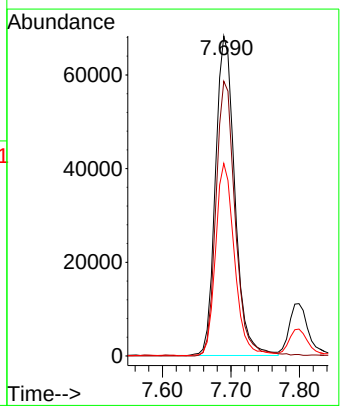


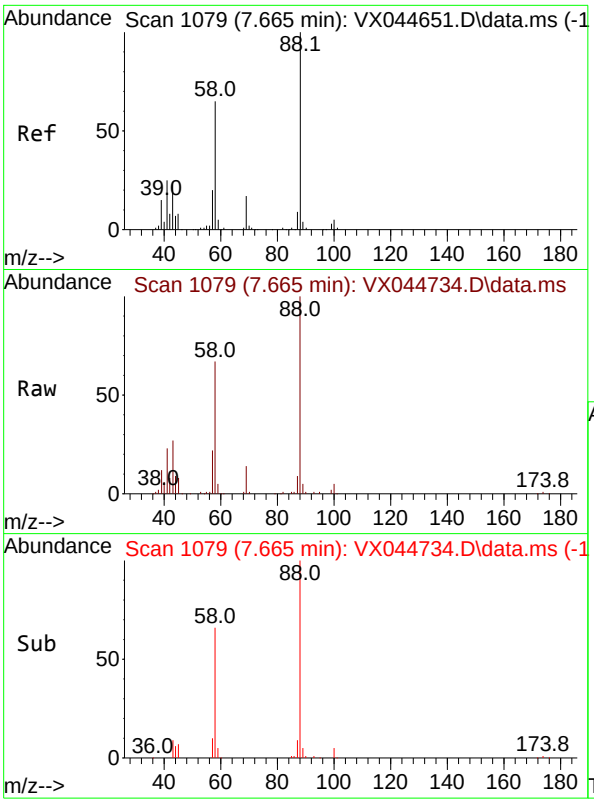




#48
Methyl methacrylate
Concen: 51.021 ug/l
RT: 7.690 min Scan# 1083
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 41 Resp: 133656

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 41 | 100 | | |
| 69 | 85.5 | 66.8 | 100.2 |
| 39 | 58.5 | 47.4 | 71.0 |



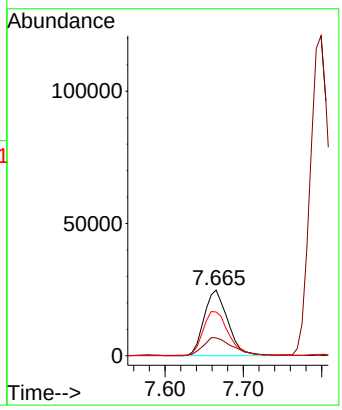


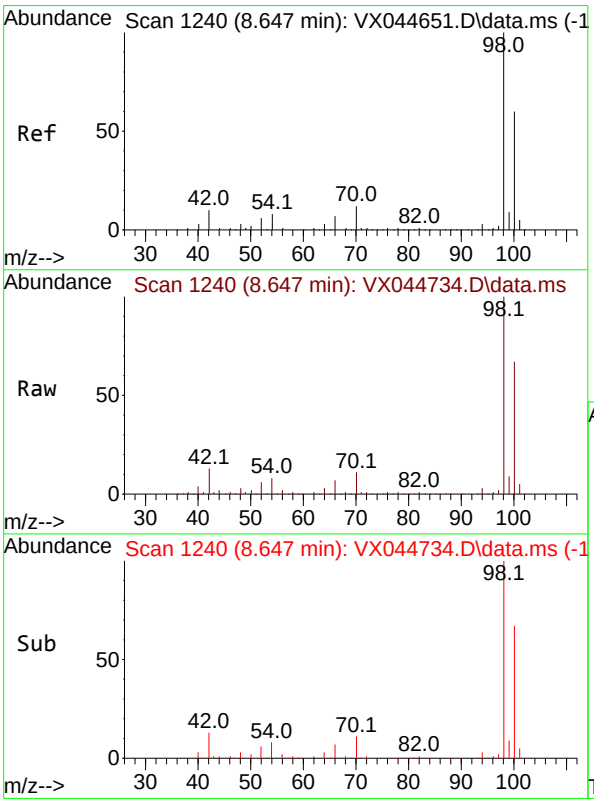

#49
1,4-Dioxane
Concen: 958.191 ug/l
RT: 7.665 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 88 Resp: 52370

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 88 | 100 | | |
| 43 | 32.8 | 27.0 | 40.4 |
| 58 | 72.4 | 55.8 | 83.8 |

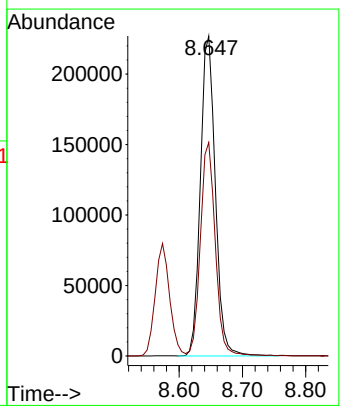


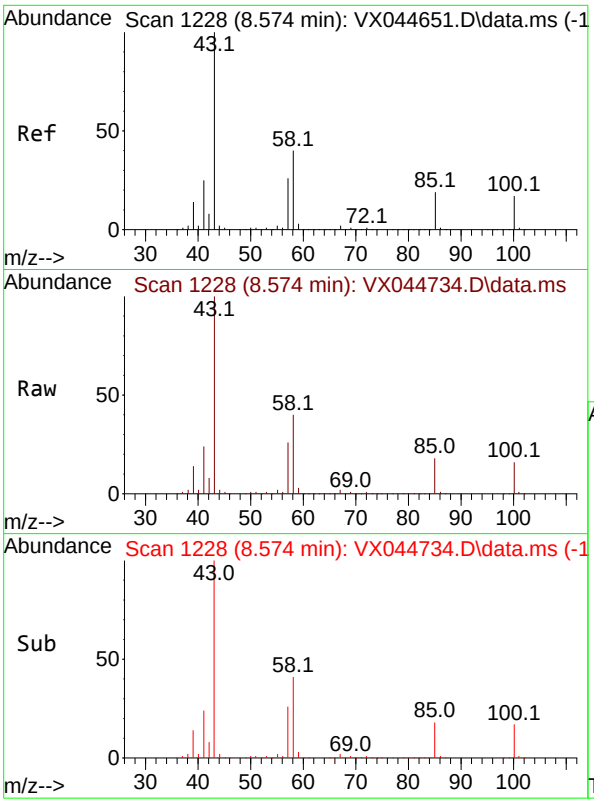




#50
Toluene-d8
Concen: 51.838 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 98 Resp: 374057

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 98 | 100 | | |
| 100 | 66.3 | 53.2 | 79.8 |



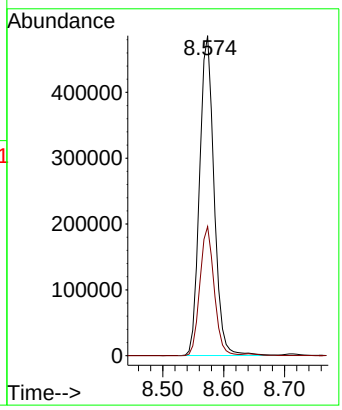


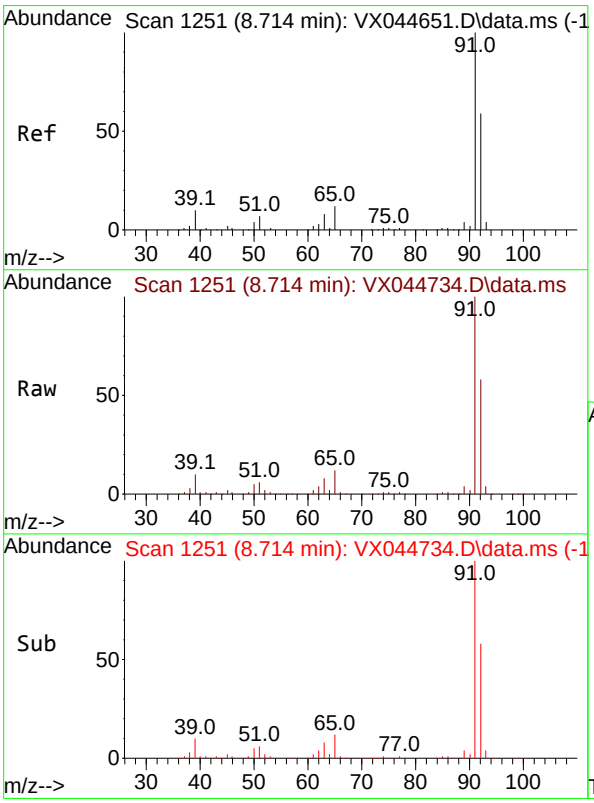

#51
4-Methyl-2-Pentanone
Concen: 258.036 ug/l
RT: 8.574 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 804760

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 39.6 | 31.9 | 47.9 |

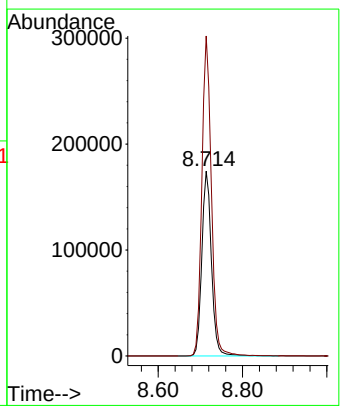


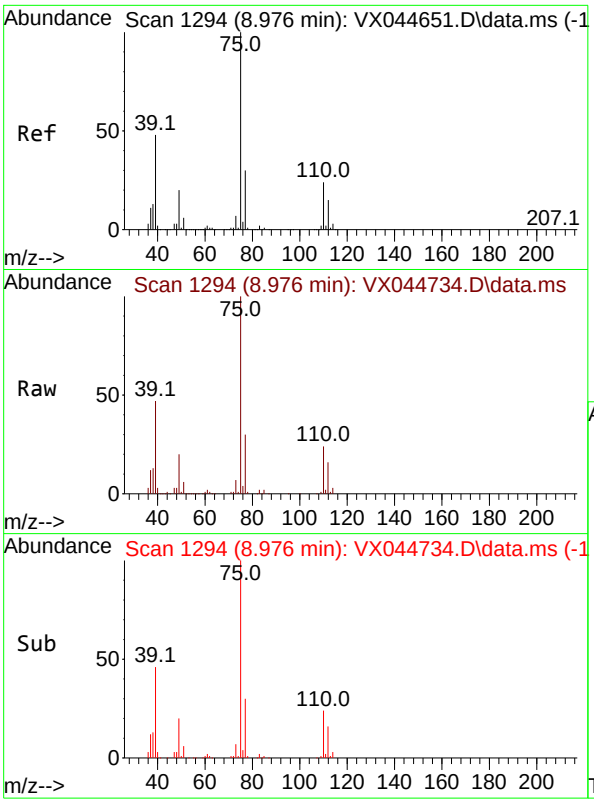




#52
Toluene
Concen: 50.481 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 92 Resp: 275818

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 92 | 100 | | |
| 91 | 171.6 | 135.7 | 203.5 |



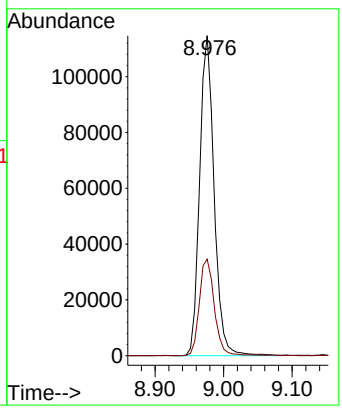


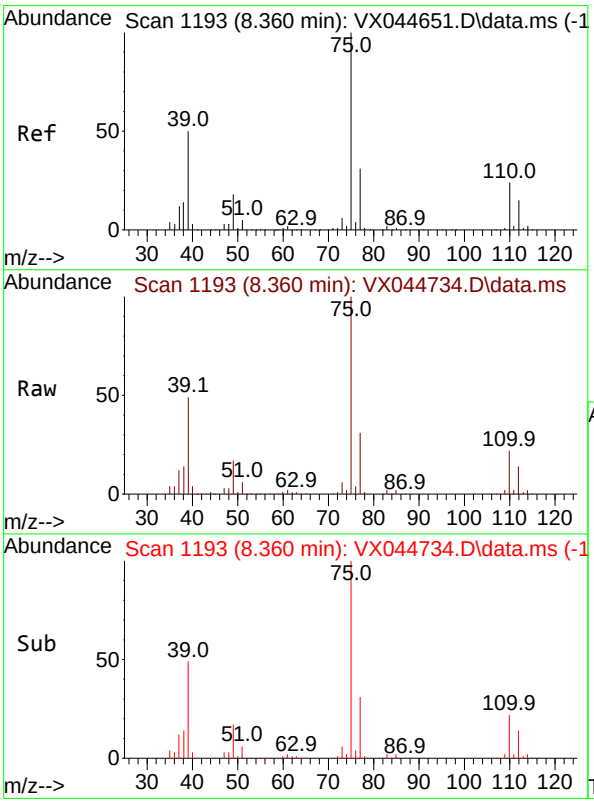

#53
t-1,3-Dichloropropene
Concen: 46.558 ug/l
RT: 8.976 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 168742

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.1 | 24.4 | 36.6 |

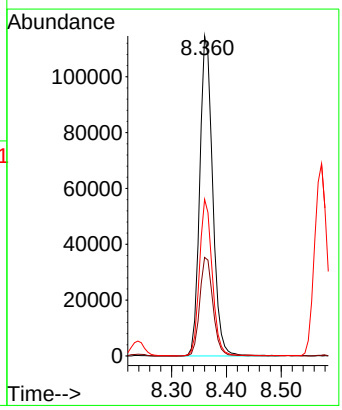


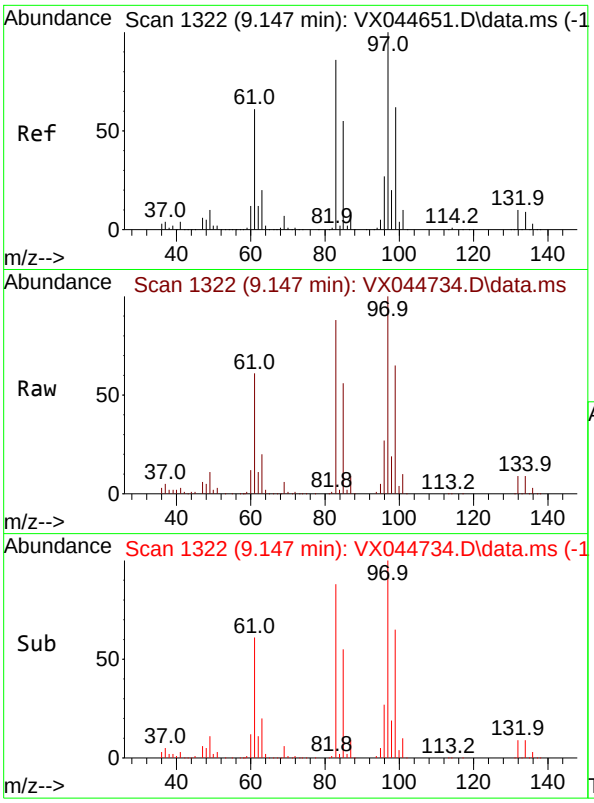




#54
cis-1,3-Dichloropropene
Concen: 47.685 ug/l
RT: 8.360 min Scan# 1193
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 75 Resp: 187397

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 30.8 | 25.1 | 37.7 |
| 39 | 48.9 | 40.3 | 60.5 |



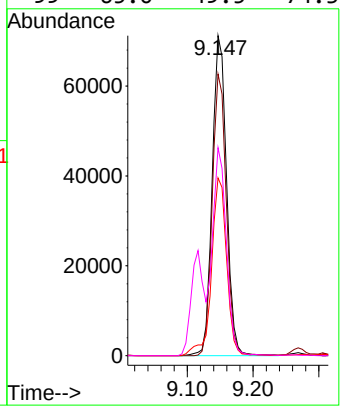


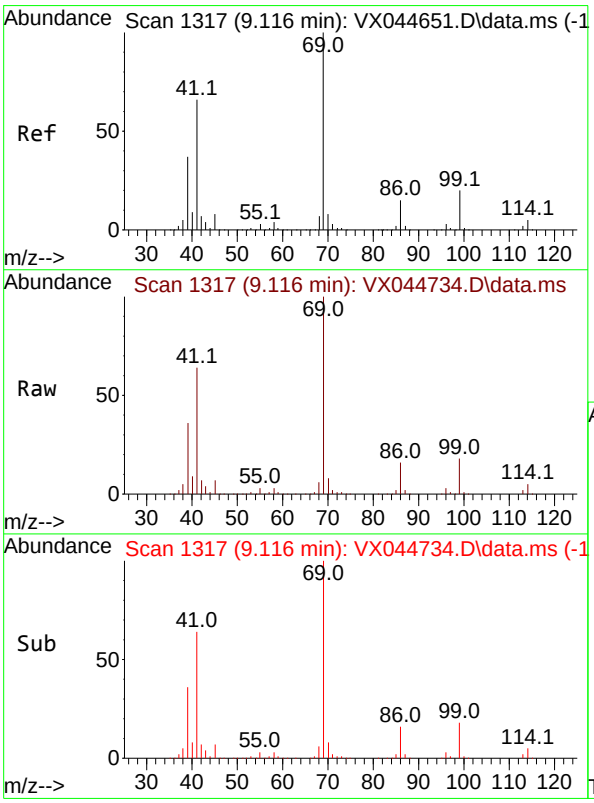

#55
1,1,2-Trichloroethane
Concen: 48.870 ug/l
RT: 9.147 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 97 Resp: 108031

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 97 | 100 | | |
| 83 | 88.0 | 68.8 | 103.2 |
| 85 | 55.6 | 43.7 | 65.5 |
| 99 | 65.0 | 49.5 | 74.3 |

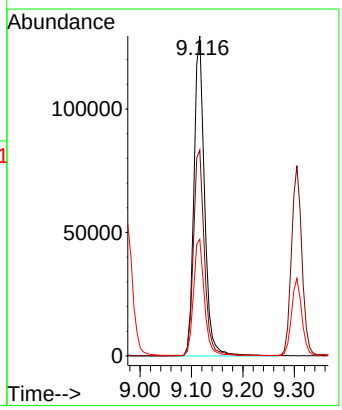


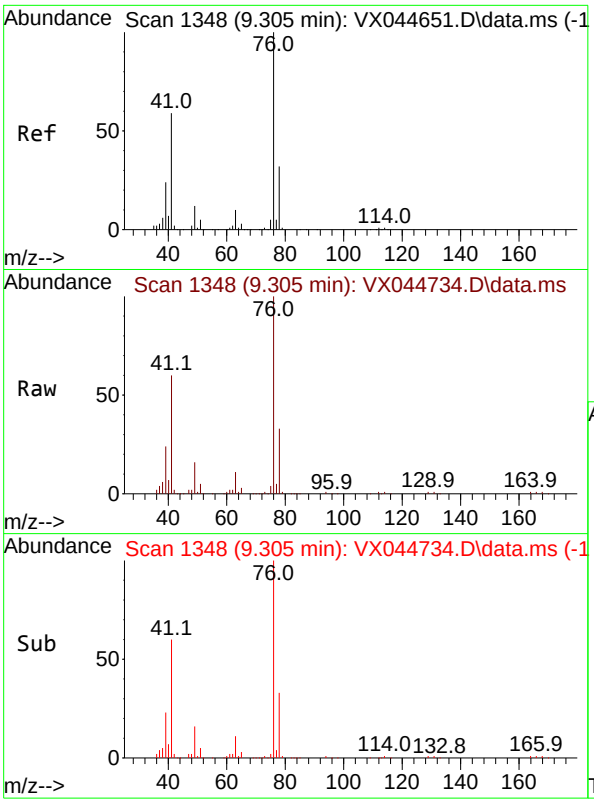




#56
Ethyl methacrylate
Concen: 48.786 ug/l
RT: 9.116 min Scan# 1317
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 69 Resp: 185430

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 69 | 100 | | |
| 41 | 66.7 | 53.2 | 79.8 |
| 39 | 37.3 | 30.2 | 45.2 |



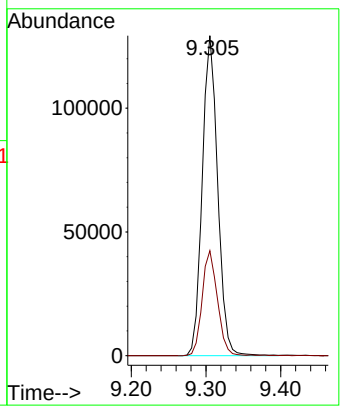


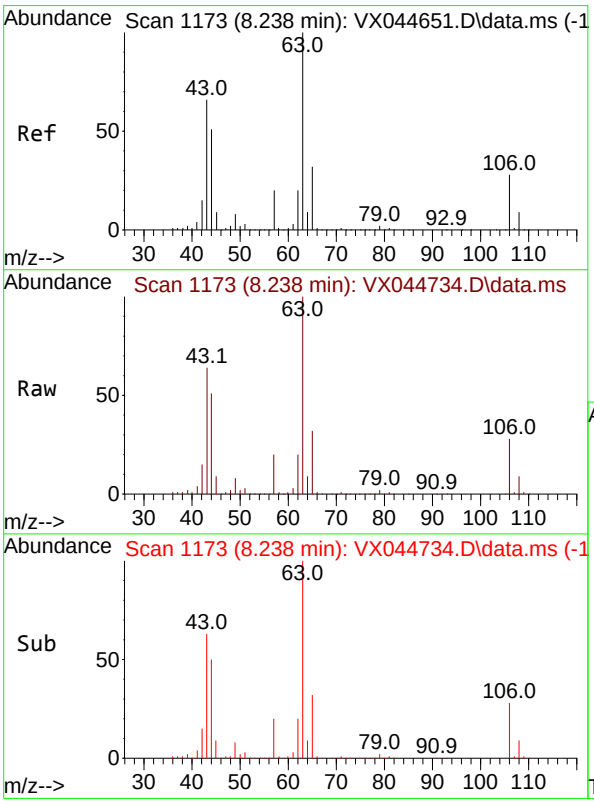

#57
1,3-Dichloropropane
Concen: 49.168 ug/l
RT: 9.305 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 76 Resp: 185086

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 76 | 100 | | |
| 78 | 32.6 | 26.0 | 39.0 |

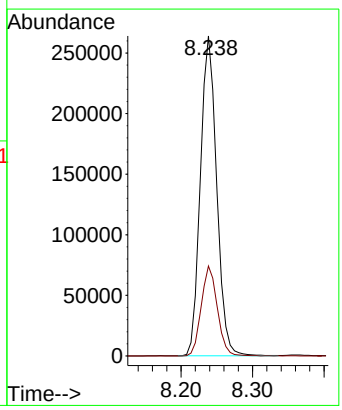


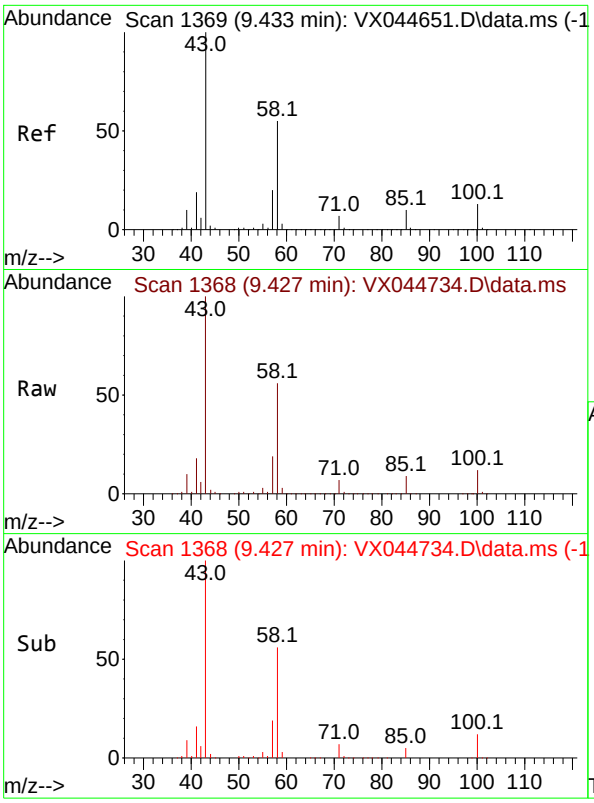




#58
2-Chloroethyl Vinyl ether
Concen: 223.982 ug/l
RT: 8.238 min Scan# 1173
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 63 Resp: 417955

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 63 | 100 | | |
| 106 | 27.7 | 23.0 | 34.6 |



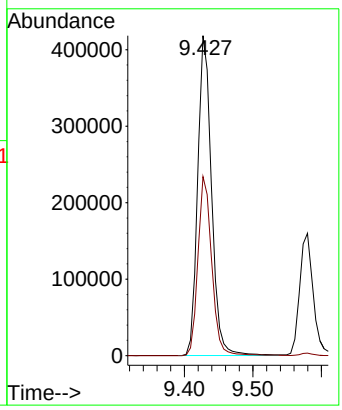


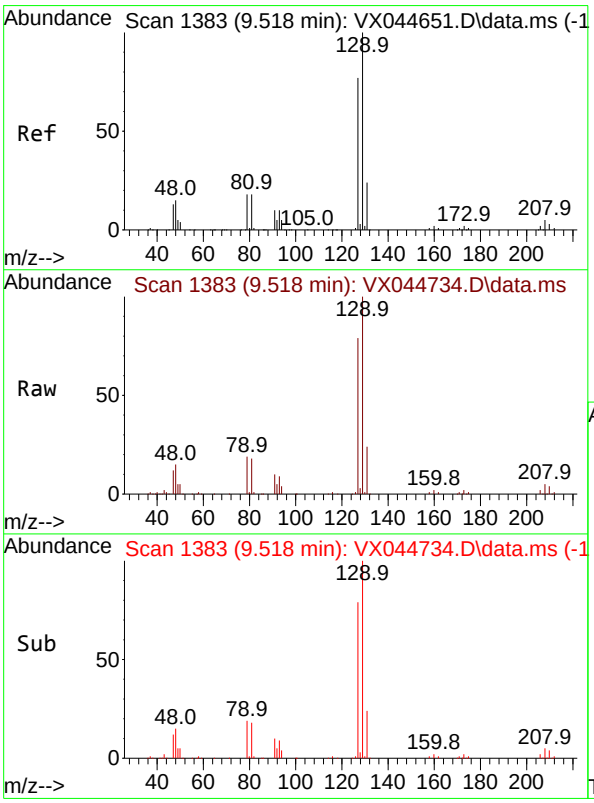

#59
2-Hexanone
Concen: 256.939 ug/l
RT: 9.427 min Scan# 1
Delta R.T. -0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 43 Resp: 589548

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 58 | 55.8 | 27.8 | 83.3 |

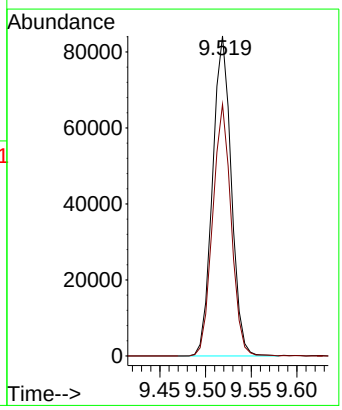


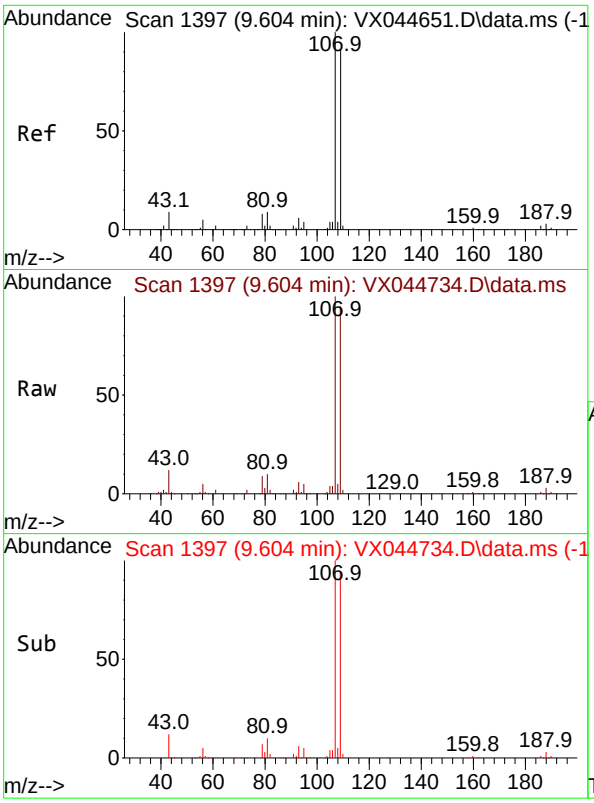




#60
Dibromochloromethane
Concen: 46.299 ug/l
RT: 9.518 min Scan# 1383
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:129 Resp: 120124

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 129 | 100 | | |
| 127 | 77.4 | 38.5 | 115.5 |



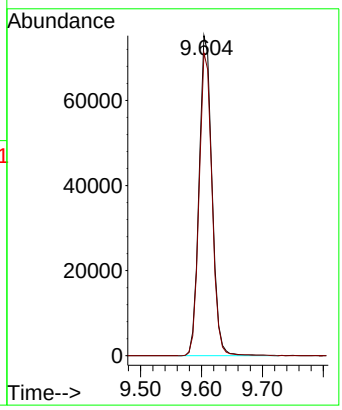


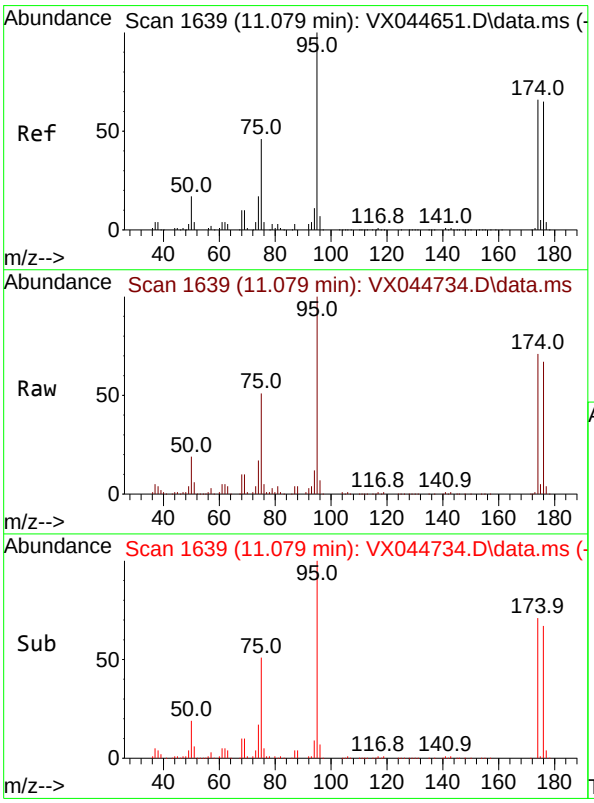

#61
1,2-Dibromoethane
Concen: 47.644 ug/l
RT: 9.604 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:107 Resp: 110375

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 107 | 100 | | |
| 109 | 94.6 | 75.3 | 112.9 |

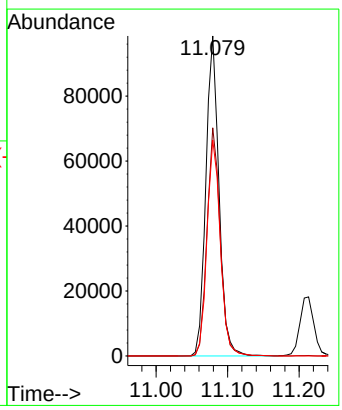


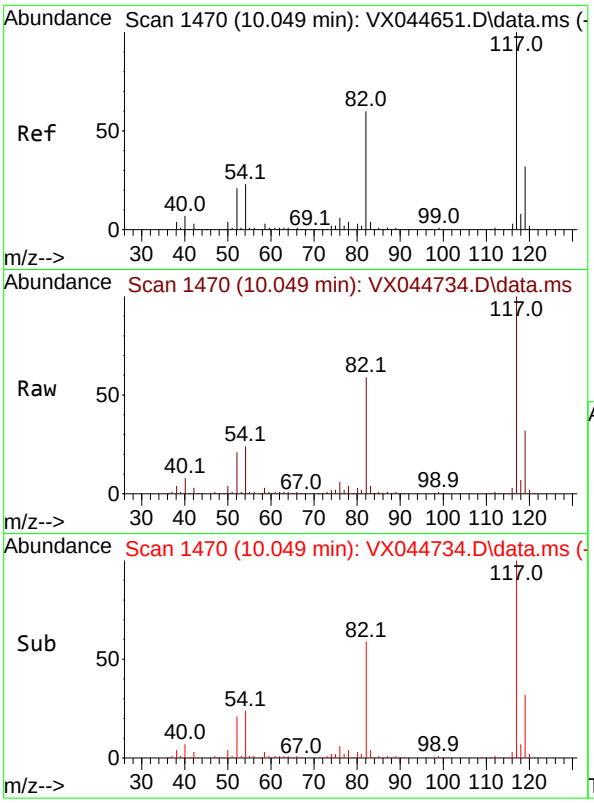




#62
4-Bromofluorobenzene
Concen: 46.714 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 95 Resp: 125660

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 95 | 100 | | |
| 174 | 71.5 | 0.0 | 133.0 |
| 176 | 68.7 | 0.0 | 129.4 |



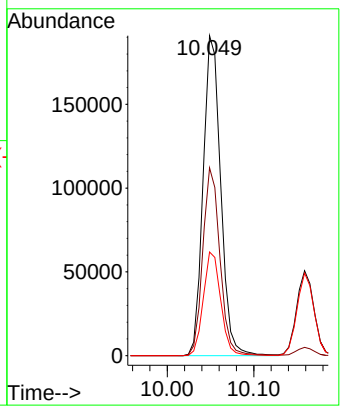


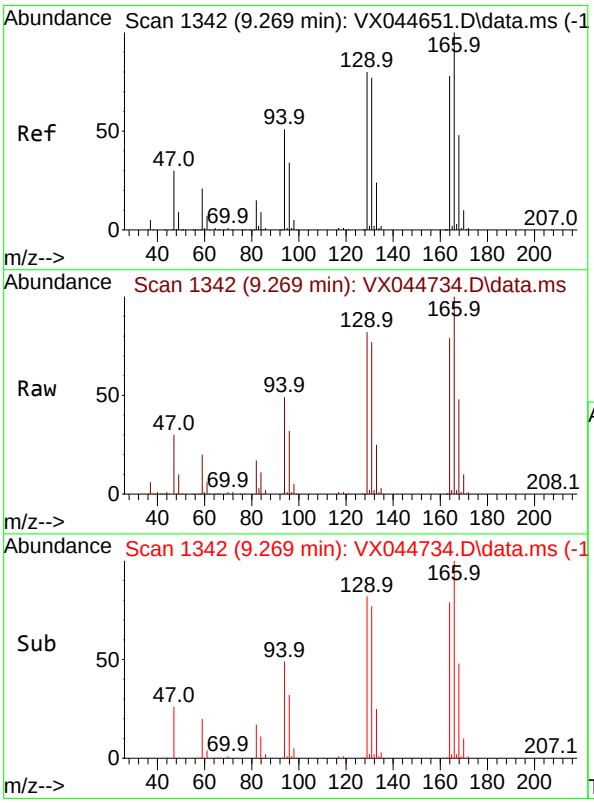

#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:117 Resp: 269229

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 82 | 58.7 | 47.6 | 71.4 |
| 119 | 32.4 | 25.4 | 38.2 |

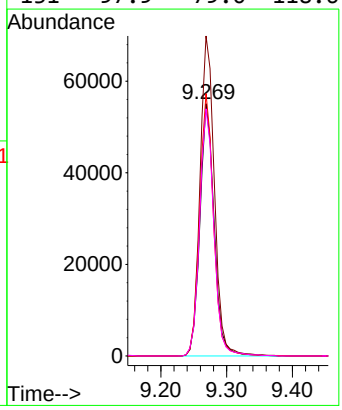


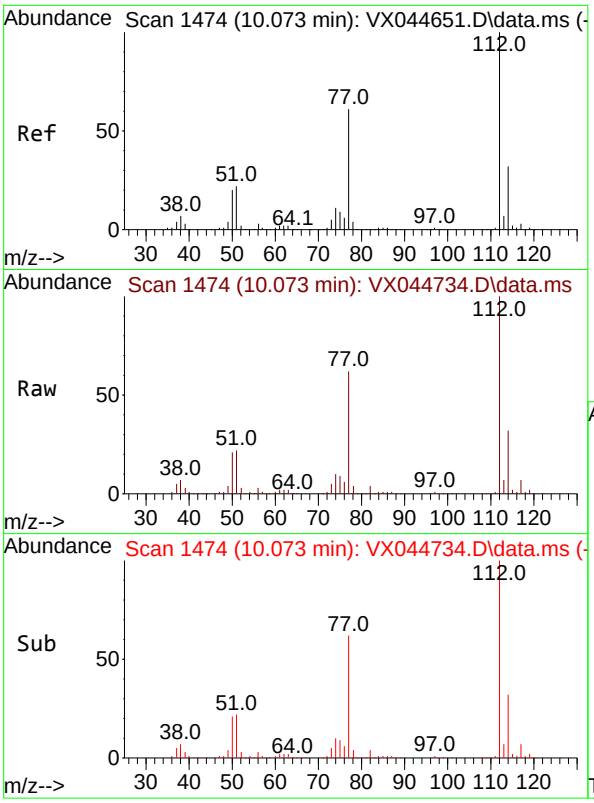




#64
Tetrachloroethene
Concen: 48.921 ug/l
RT: 9.269 min Scan# 1342
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:164 Resp: 82704

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 164 | 100 | | |
| 166 | 126.8 | 102.0 | 153.0 |
| 129 | 104.0 | 81.1 | 121.7 |
| 131 | 97.9 | 79.0 | 118.6 |



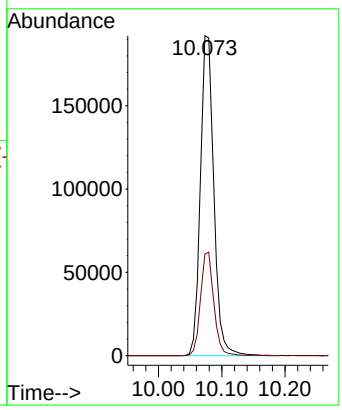


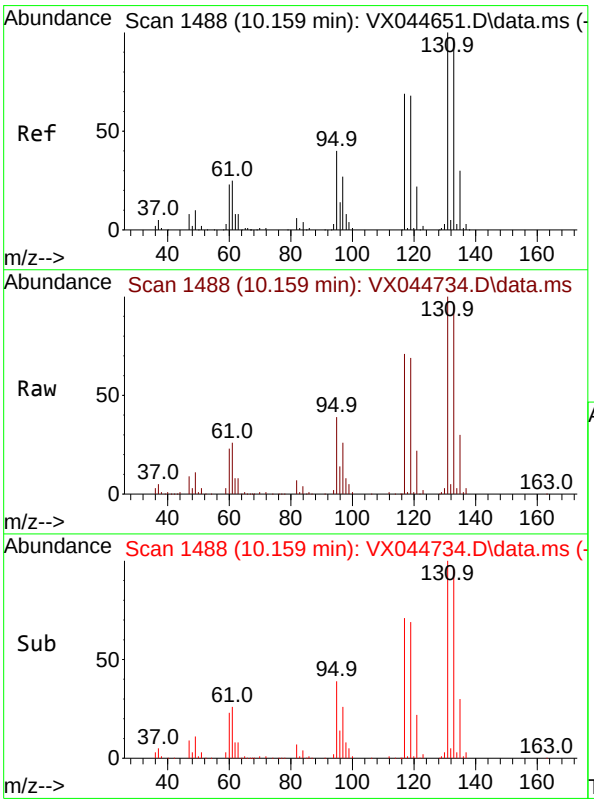

#65
Chlorobenzene
Concen: 49.886 ug/l
RT: 10.073 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:112 Resp: 285275

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 112 | 100 | | |
| 114 | 31.8 | 25.3 | 37.9 |

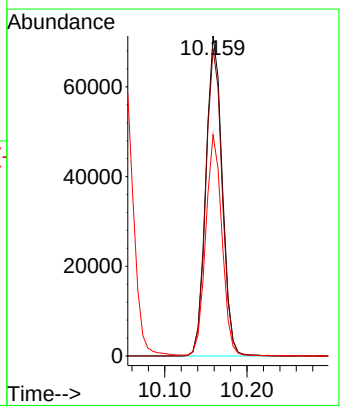


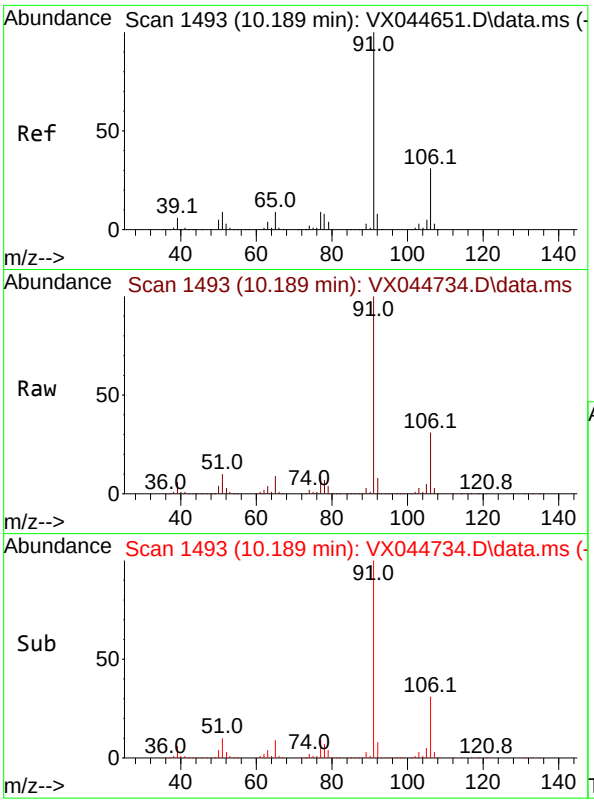




#66
1,1,1,2-Tetrachloroethane
Concen: 47.492 ug/l
RT: 10.159 min Scan# 1488
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:131 Resp: 98702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 131 | 100 | | |
| 133 | 96.0 | 47.8 | 143.3 |
| 119 | 68.7 | 33.4 | 100.2 |



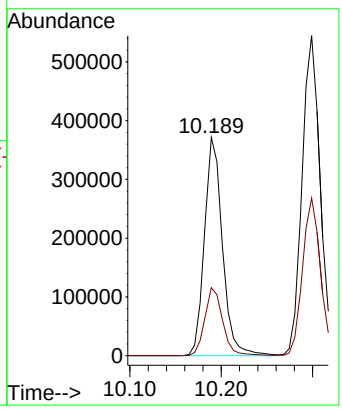


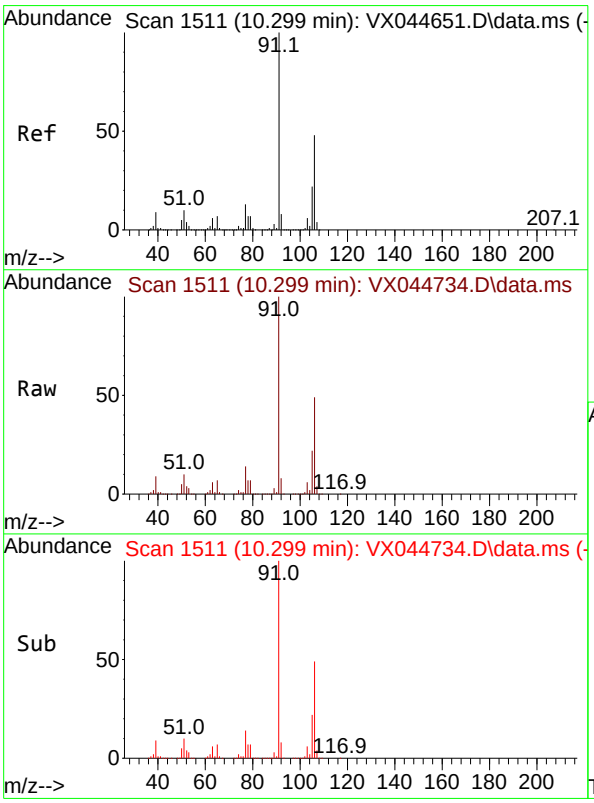

#67
Ethyl Benzene
Concen: 50.924 ug/l
RT: 10.189 min Scan# 14
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 508128

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 106 | 31.2 | 25.0 | 37.6 |

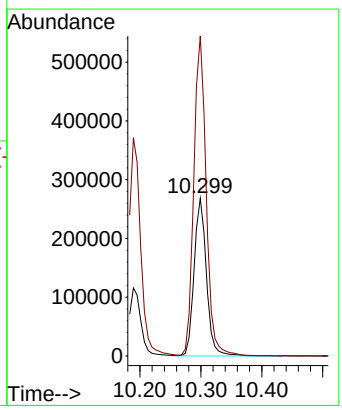


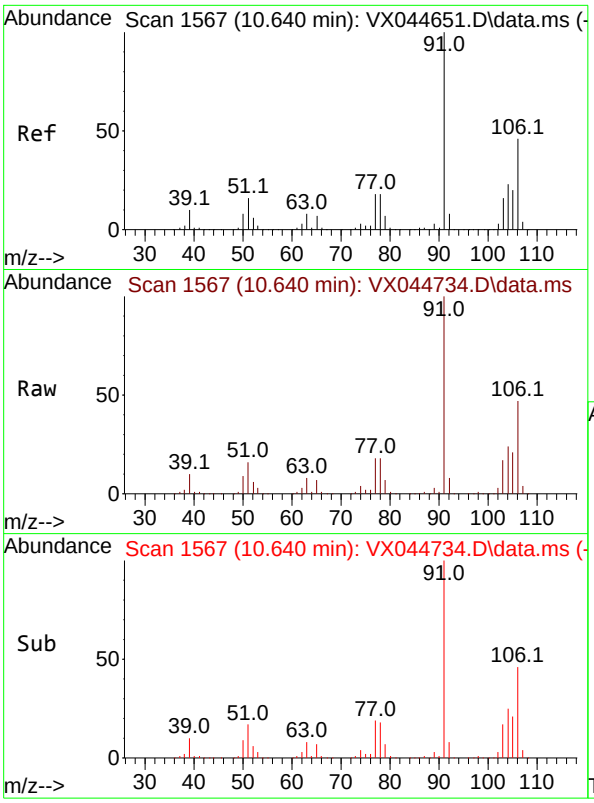




#68
m/p-Xylenes
Concen: 101.518 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:106 Resp: 375897

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 204.5 | 166.4 | 249.6 |



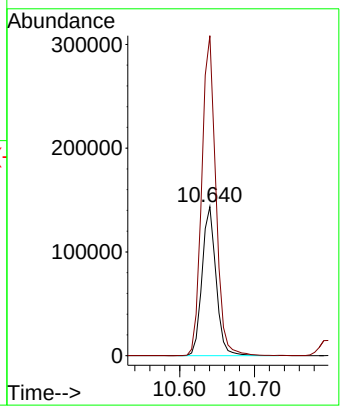


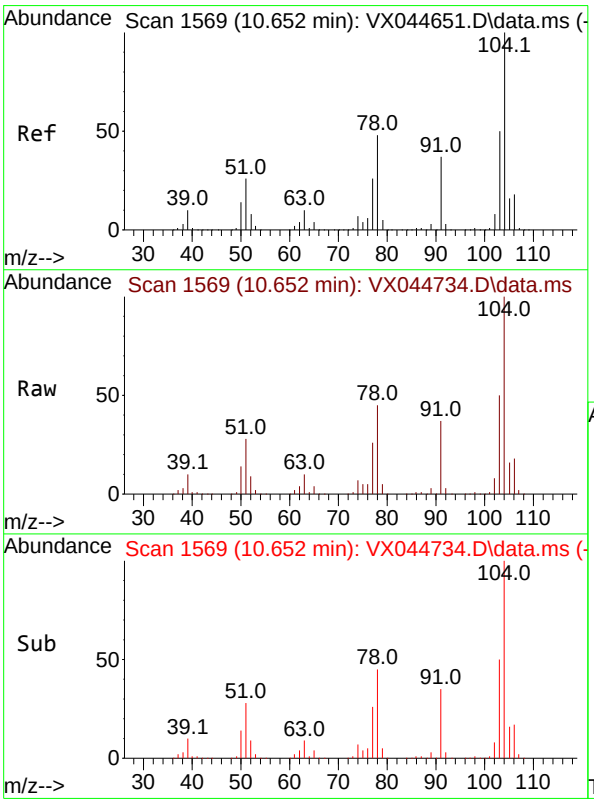

#69
o-Xylene
Concen: 49.864 ug/l
RT: 10.640 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:106 Resp: 186721

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 106 | 100 | | |
| 91 | 216.3 | 108.7 | 326.3 |

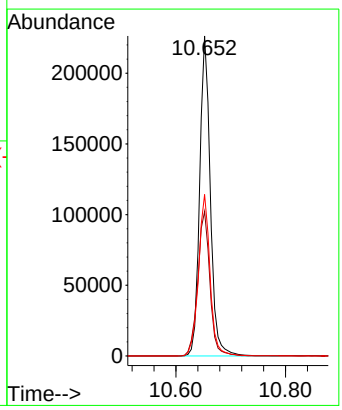


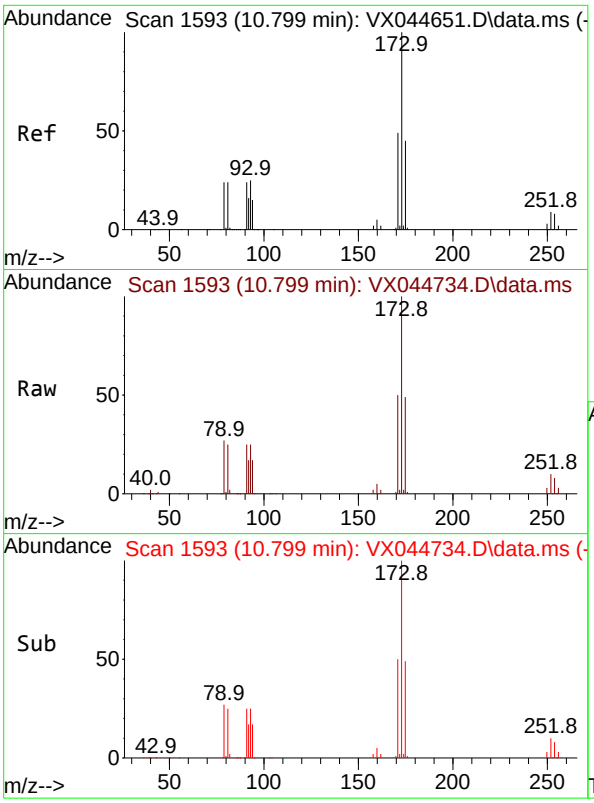




#70
Styrene
Concen: 50.666 ug/l
RT: 10.652 min Scan# 1569
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:104 Resp: 306315

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 104 | 100 | | |
| 78 | 51.5 | 43.0 | 64.6 |
| 103 | 54.8 | 43.4 | 65.2 |



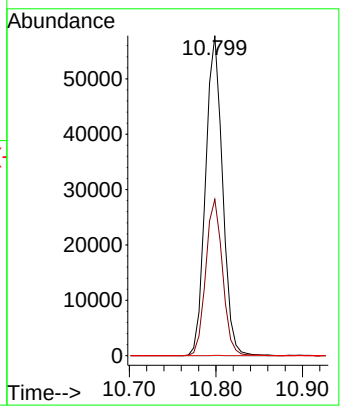


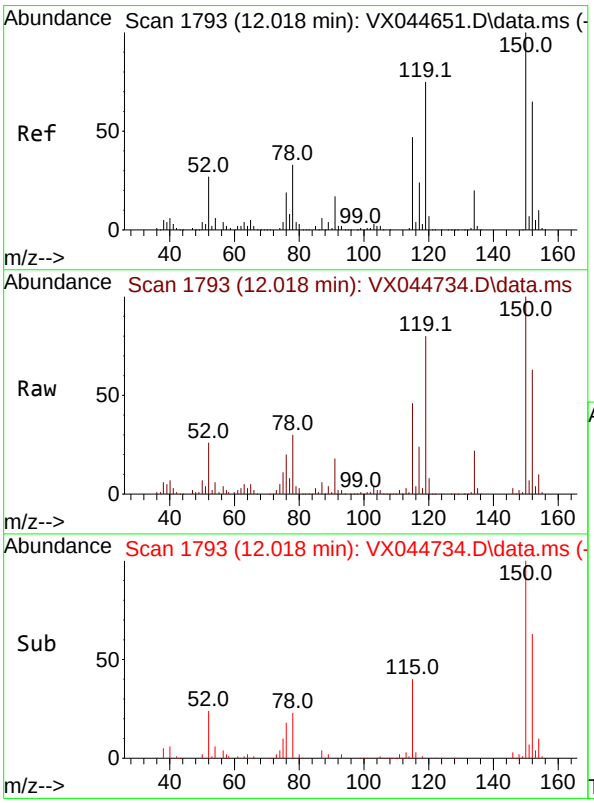

#71
Bromoform
Concen: 46.525 ug/l
RT: 10.799 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:173 Resp: 78698

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 173 | 100 | | |
| 175 | 48.3 | 23.6 | 70.8 |
| 254 | 0.1 | 0.1 | 0.1# |

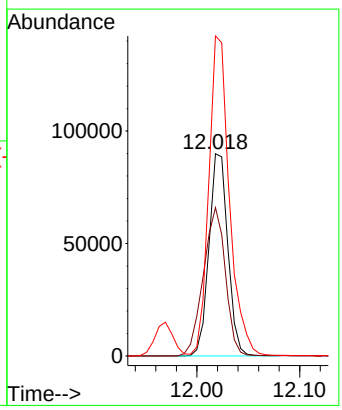


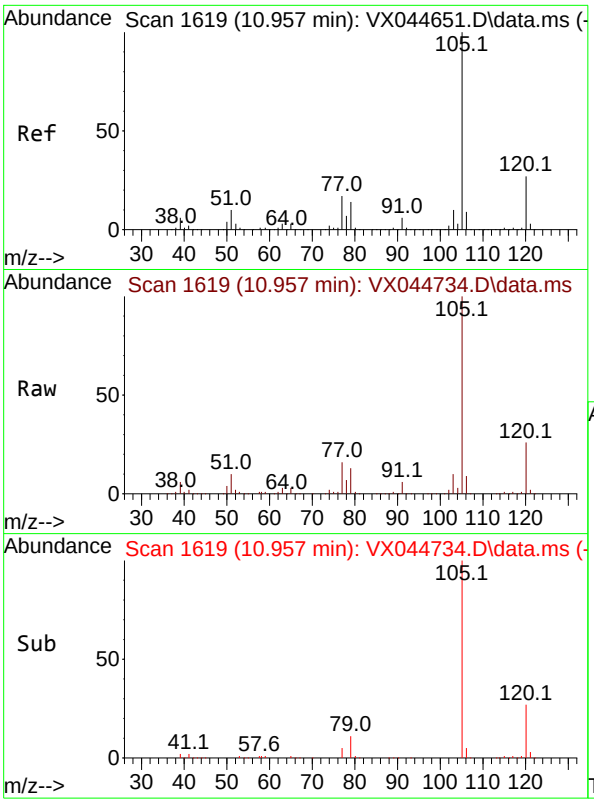




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:152 Resp: 114515

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 152 | 100 | | |
| 115 | 85.9 | 43.8 | 131.4 |
| 150 | 173.0 | 0.0 | 347.8 |



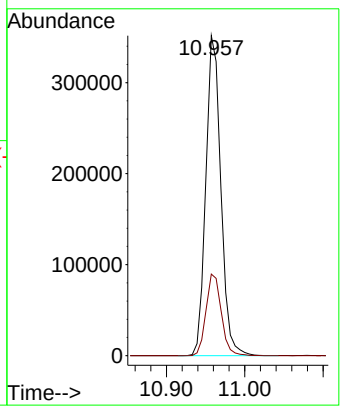


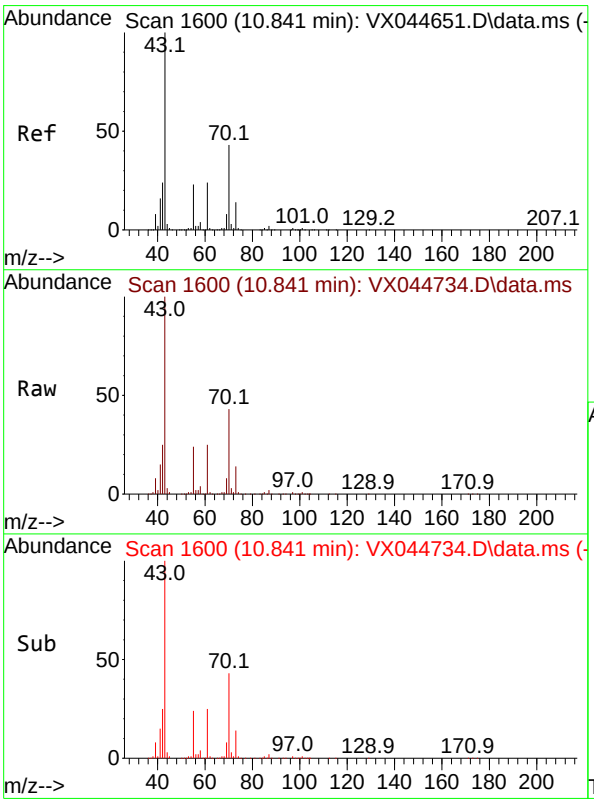

#73
Isopropylbenzene
Concen: 49.995 ug/l
RT: 10.957 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 467702

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 25.9 | 13.2 | 39.6 |

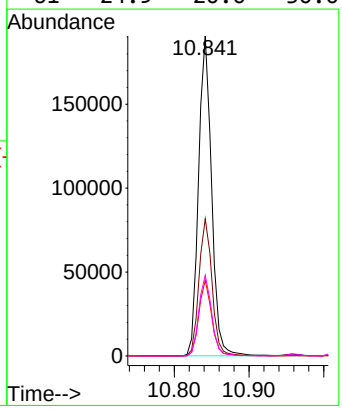


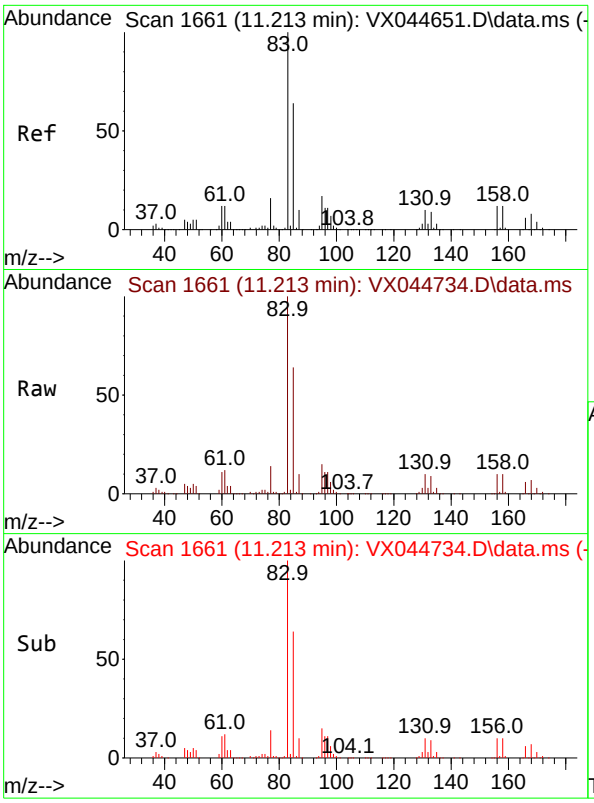




#74
N-amyl acetate
Concen: 50.050 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 43 Resp: 230784

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 43 | 100 | | |
| 70 | 43.0 | 35.2 | 52.8 |
| 55 | 23.3 | 19.0 | 28.4 |
| 61 | 24.9 | 20.0 | 30.0 |



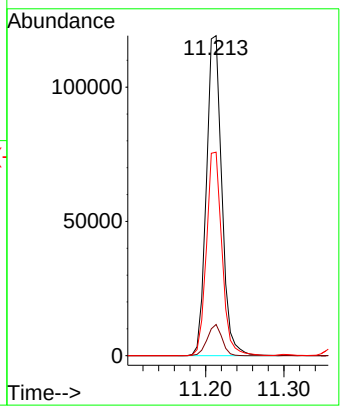


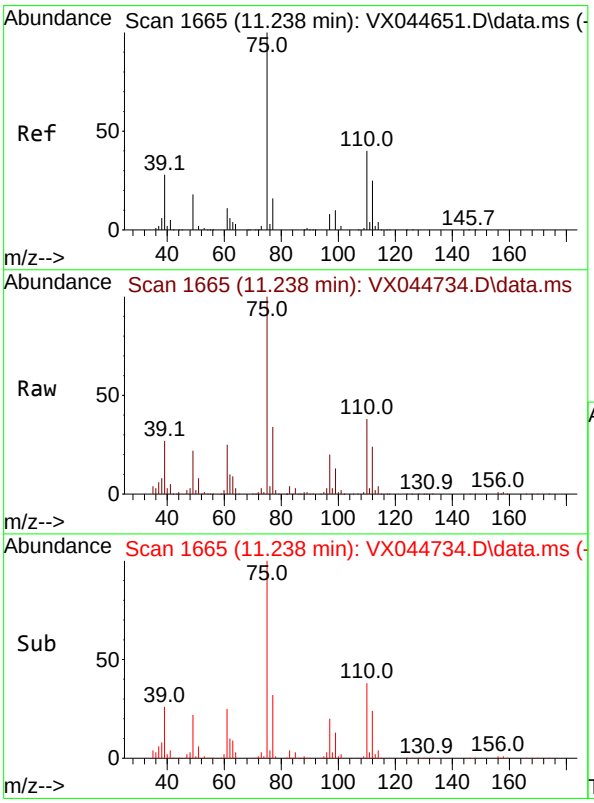

#75
1,1,2,2-Tetrachloroethane
Concen: 50.287 ug/l
RT: 11.213 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 83 Resp: 162476

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 83 | 100 | | |
| 131 | 9.3 | 5.0 | 14.9 |
| 85 | 64.0 | 32.0 | 96.2 |

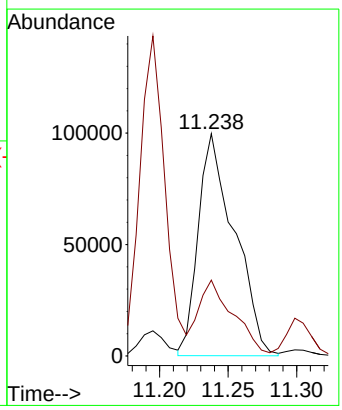


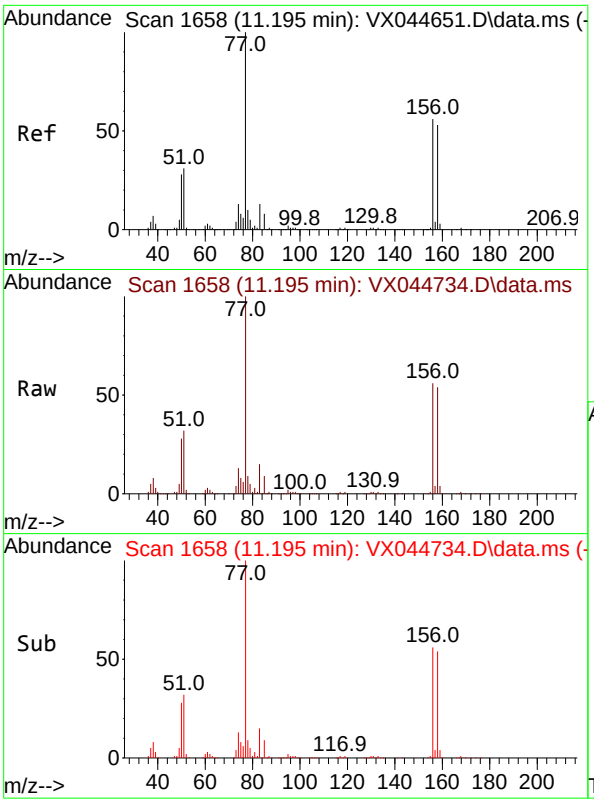




#76
1,2,3-Trichloropropane
Concen: 65.900 ug/l
RT: 11.238 min Scan# 1665
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 75 Resp: 183144

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 77 | 33.1 | 23.4 | 70.2 |



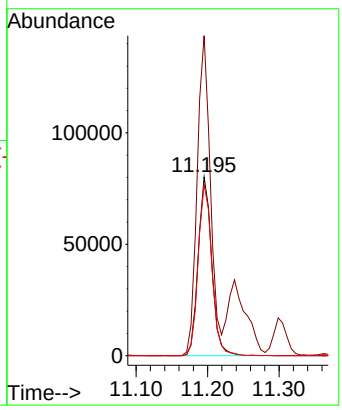


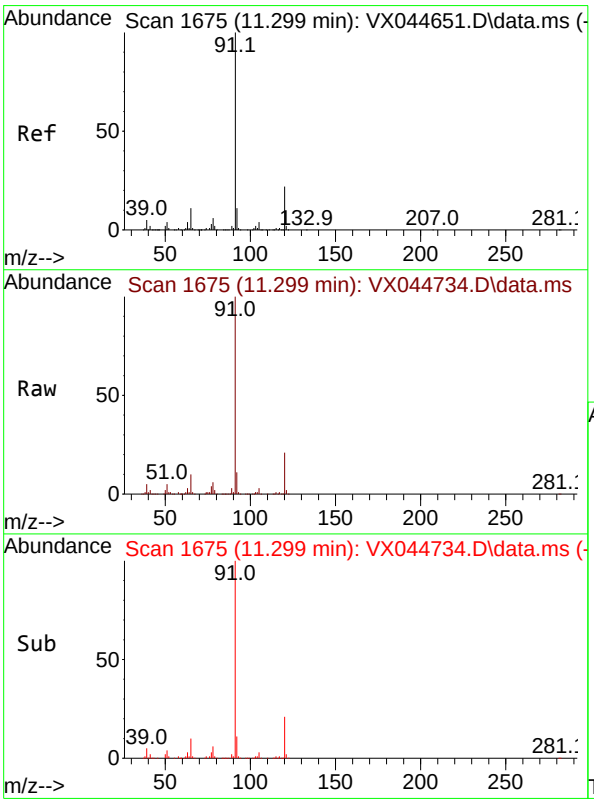

#77
Bromobenzene
Concen: 48.400 ug/l
RT: 11.195 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:156 Resp: 105832

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 156 | 100 | | |
| 77 | 174.7 | 90.3 | 271.0 |
| 158 | 96.6 | 48.4 | 145.3 |

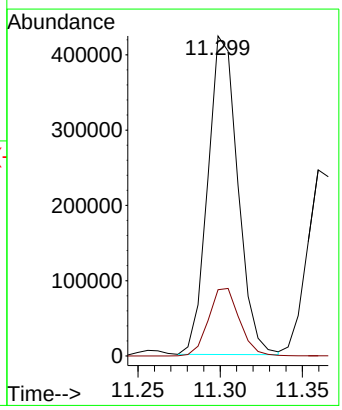


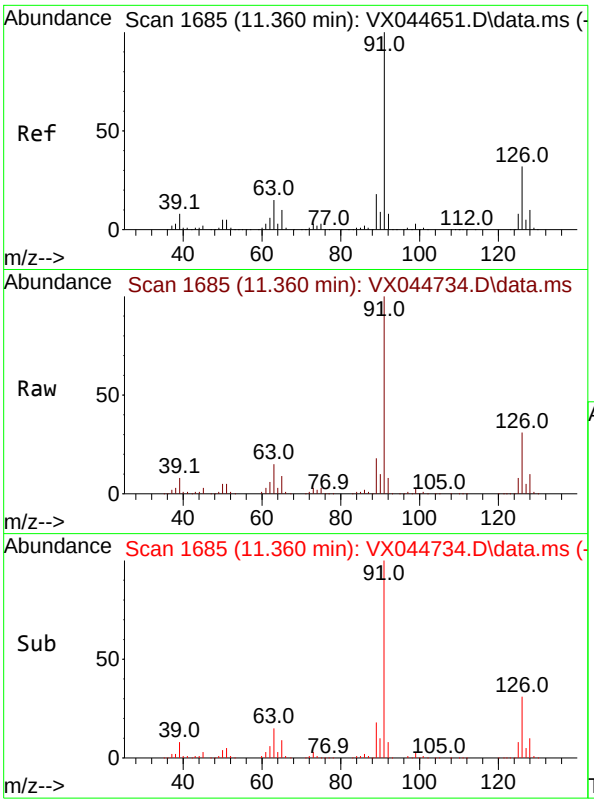




#78
n-propylbenzene
Concen: 52.120 ug/l
RT: 11.299 min Scan# 1675
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 91 Resp: 537719

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 120 | 21.9 | 11.4 | 34.1 |



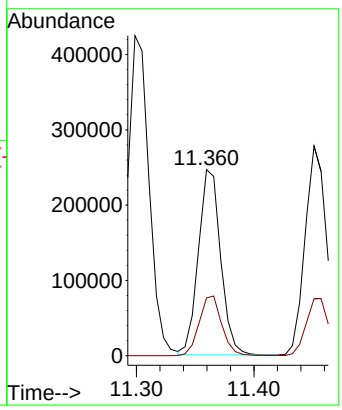


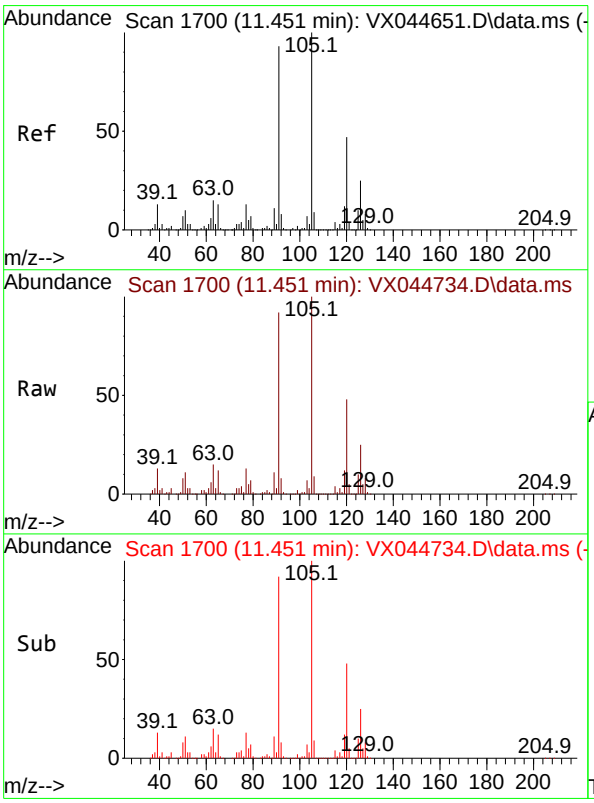

#79
2-Chlorotoluene
Concen: 48.732 ug/l
RT: 11.360 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 324771

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 32.7 | 16.2 | 48.5 |

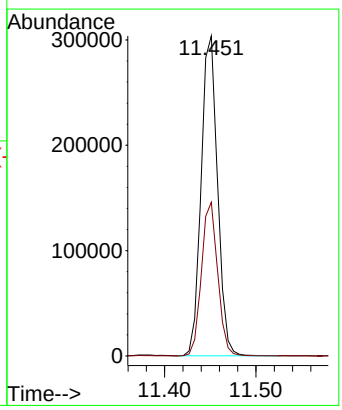


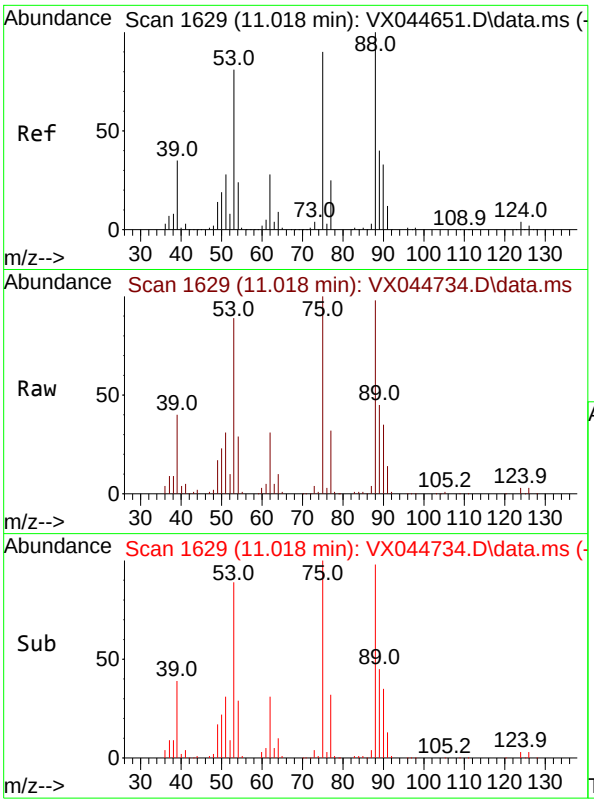




#80
1,3,5-Trimethylbenzene
Concen: 49.507 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:105 Resp: 377028

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 47.7 | 23.7 | 71.1 |



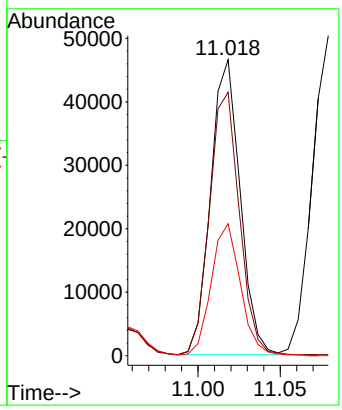


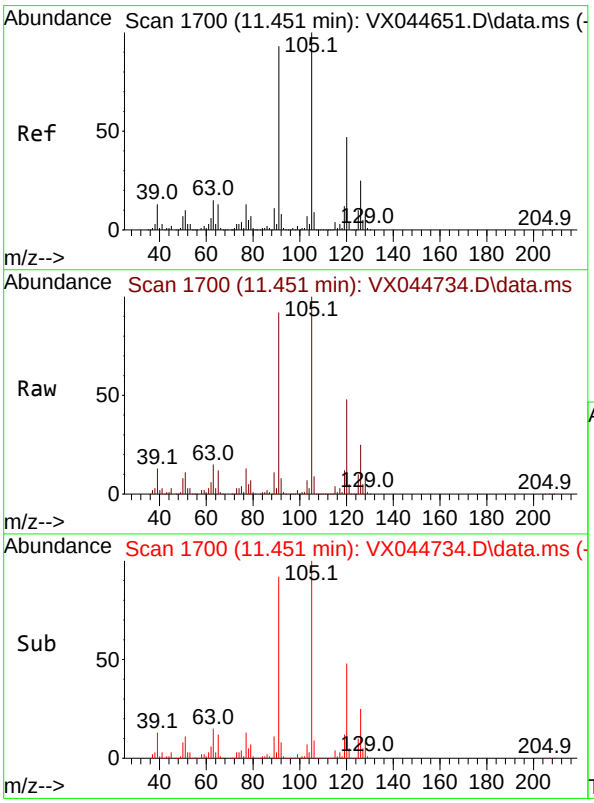

#81
trans-1,4-Dichloro-2-butene
Concen: 47.755 ug/l
RT: 11.018 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 75 Resp: 58035

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 53 | 91.5 | 74.3 | 111.5 |
| 89 | 44.6 | 37.4 | 56.0 |

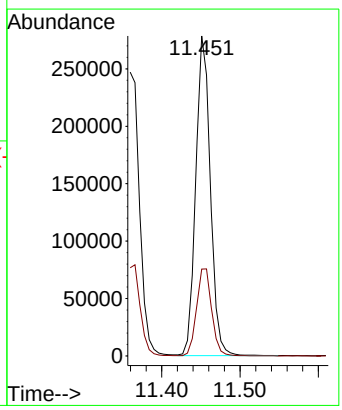


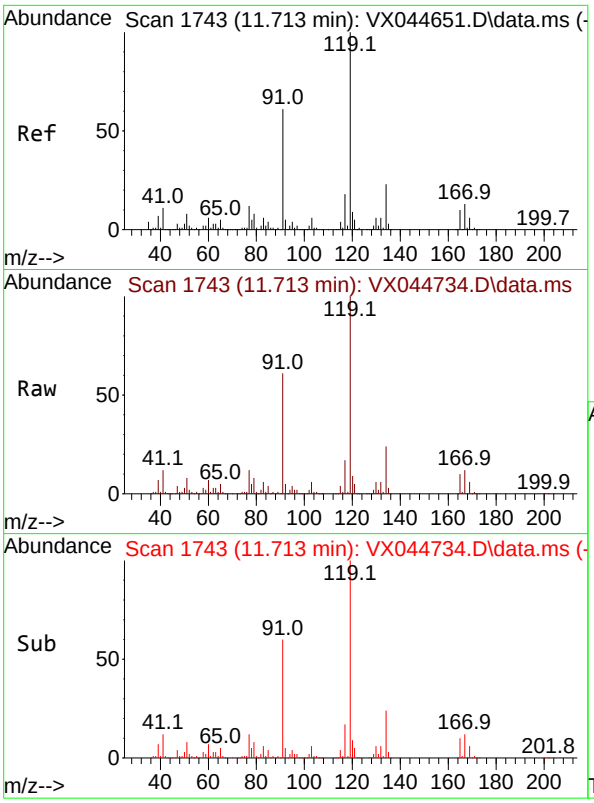




#82
4-Chlorotoluene
Concen: 49.417 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 91 Resp: 360773

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 126 | 28.4 | 13.9 | 41.7 |



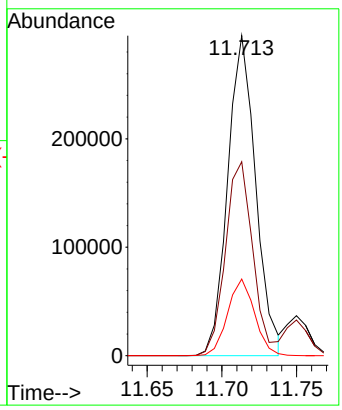


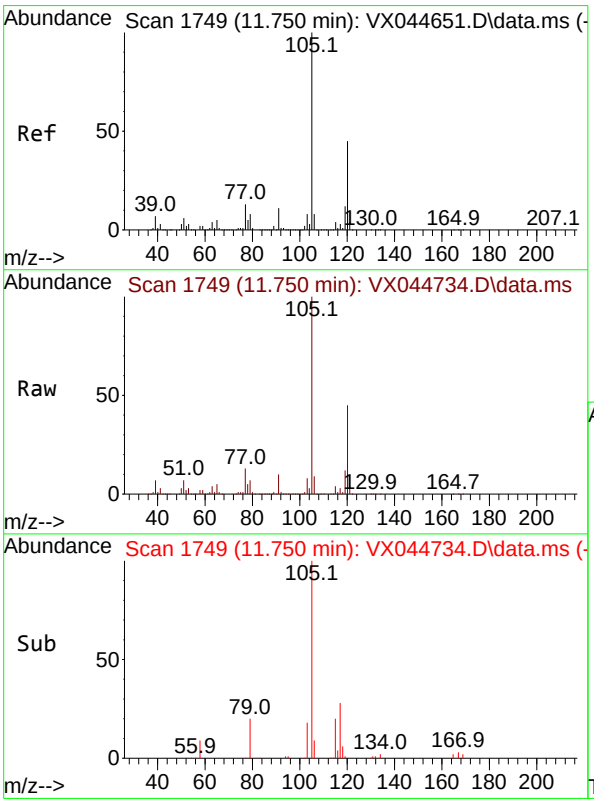

#83
tert-Butylbenzene
Concen: 48.285 ug/l
RT: 11.713 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:119 Resp: 384493

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 91 | 59.7 | 30.0 | 90.0 |
| 134 | 23.1 | 11.2 | 33.5 |

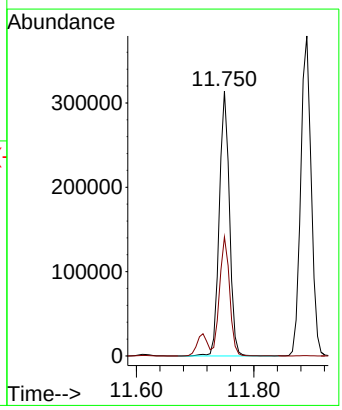


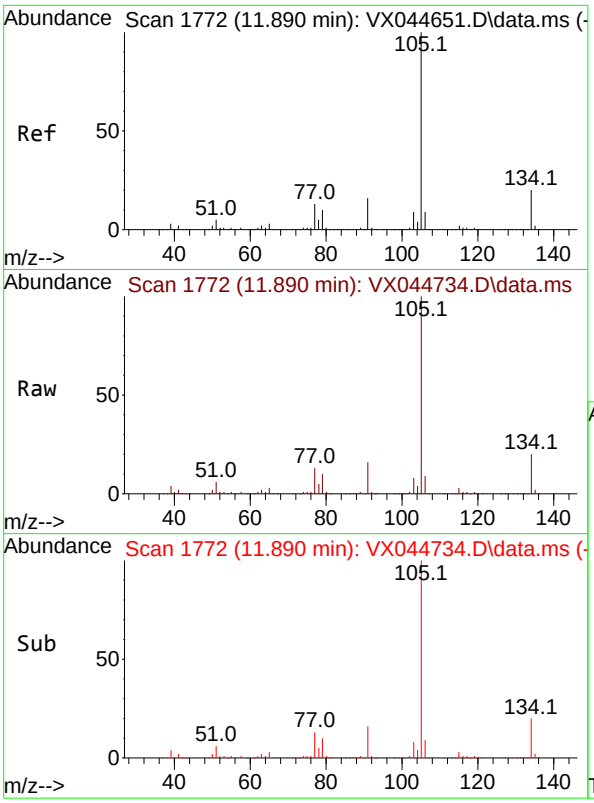




#84
1,2,4-Trimethylbenzene
Concen: 48.458 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:105 Resp: 375017

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 120 | 44.8 | 22.2 | 66.6 |



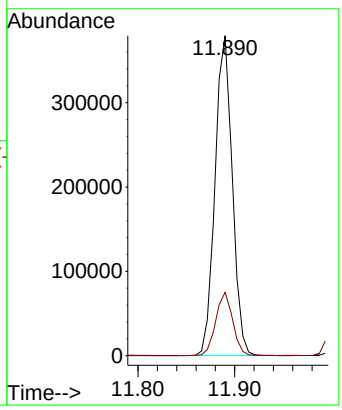


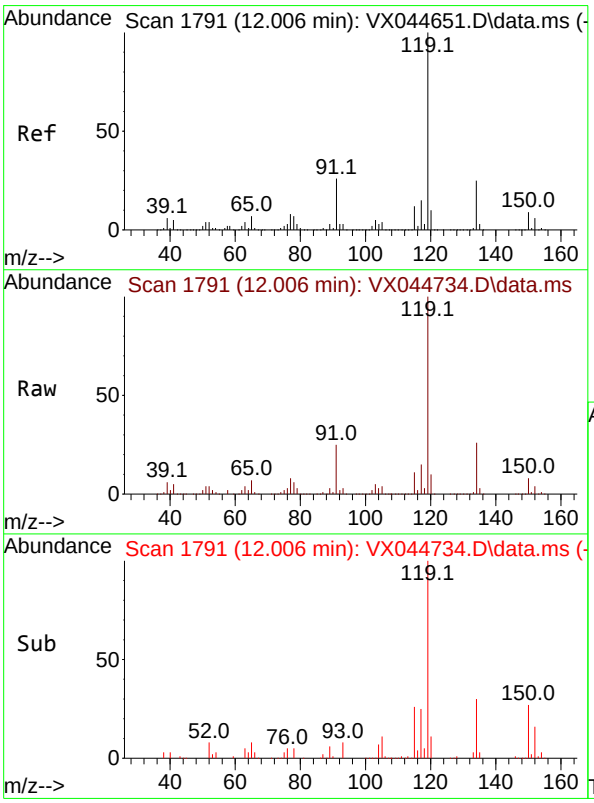

#85
sec-Butylbenzene
Concen: 50.498 ug/l
RT: 11.890 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:105 Resp: 468207

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 105 | 100 | | |
| 134 | 19.5 | 9.8 | 29.5 |

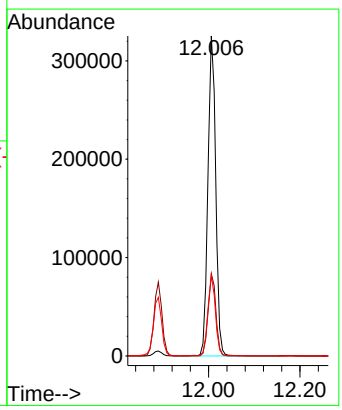


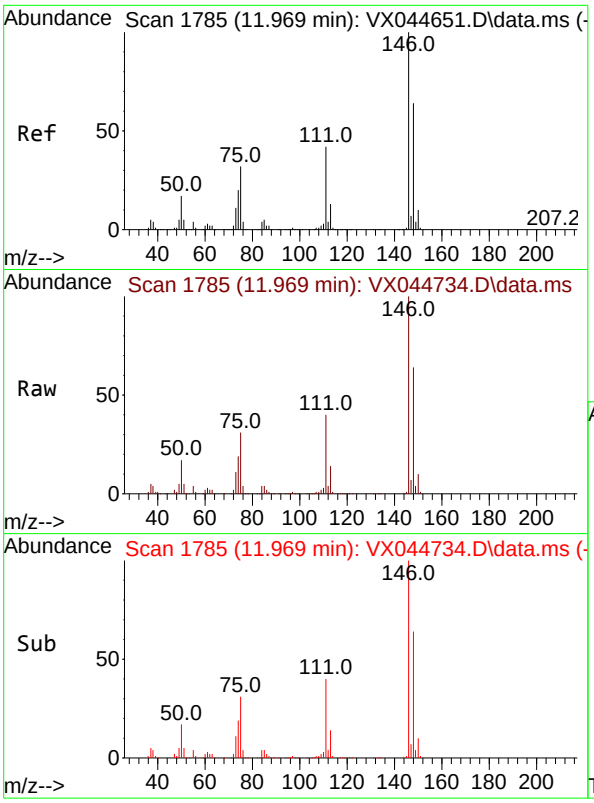




#86
p-Isopropyltoluene
Concen: 50.439 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:119 Resp: 384326

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 119 | 100 | | |
| 134 | 25.7 | 12.8 | 38.4 |
| 91 | 24.3 | 12.7 | 38.1 |



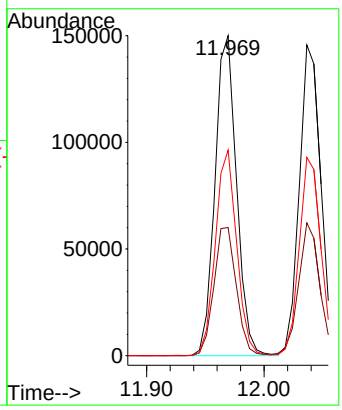


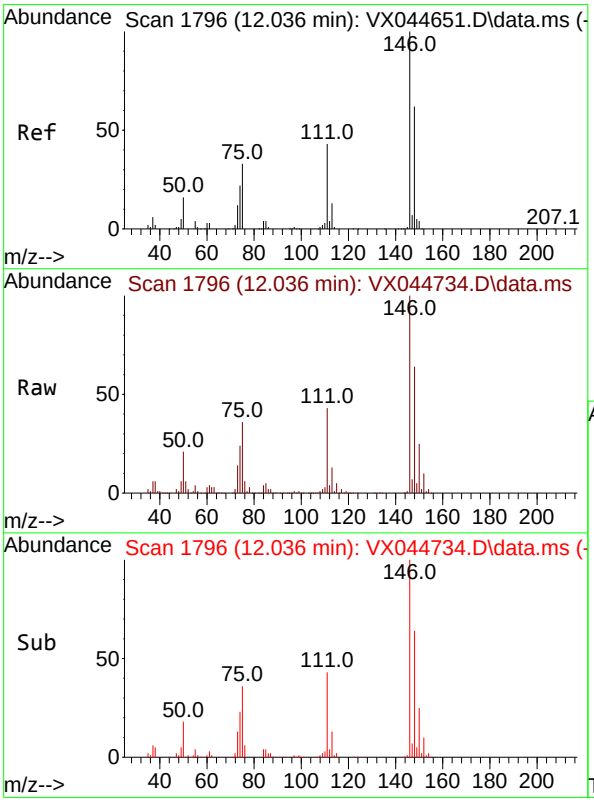

#87
1,3-Dichlorobenzene
Concen: 50.565 ug/l
RT: 11.969 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 191747

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.8 | 21.9 | 65.7 |
| 148 | 63.5 | 31.8 | 95.4 |

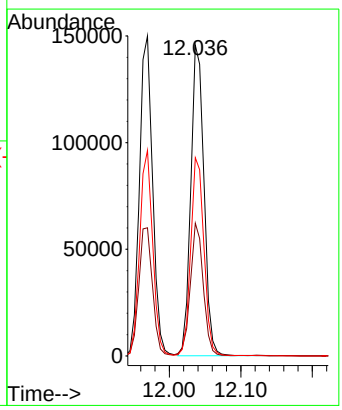


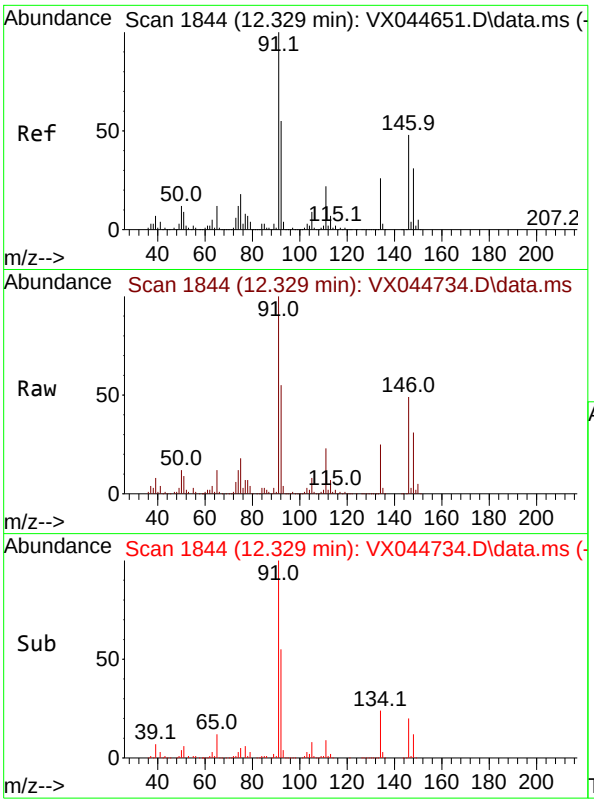




#88
1,4-Dichlorobenzene
Concen: 48.716 ug/l
RT: 12.036 min Scan# 1796
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:146 Resp: 186749

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 41.7 | 21.5 | 64.5 |
| 148 | 63.7 | 32.1 | 96.5 |



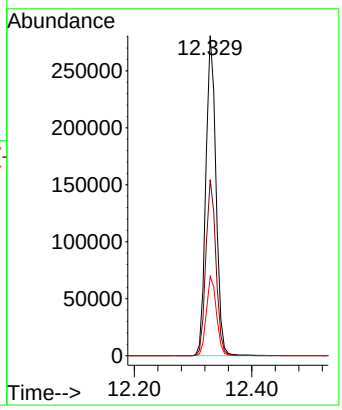


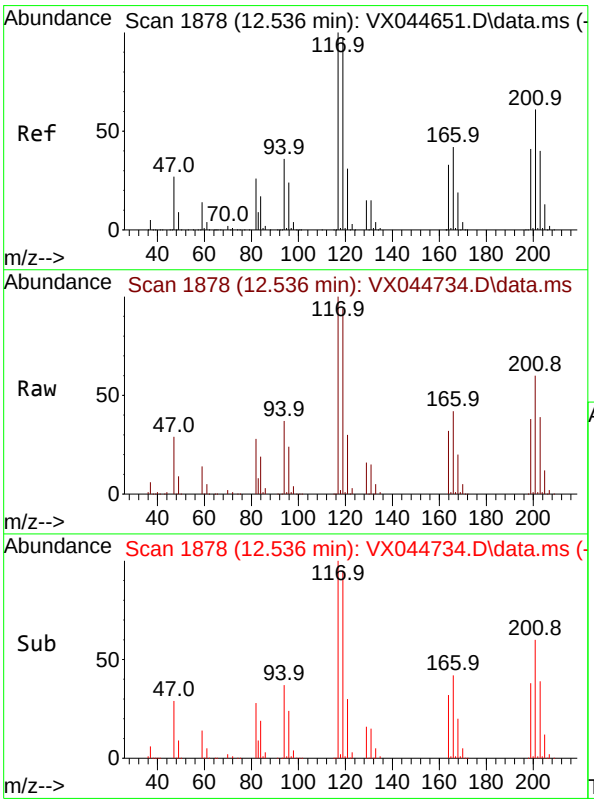

#89
n-Butylbenzene
Concen: 51.507 ug/l
RT: 12.329 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion: 91 Resp: 337088

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 91 | 100 | | |
| 92 | 54.9 | 27.4 | 82.0 |
| 134 | 24.8 | 12.8 | 38.3 |

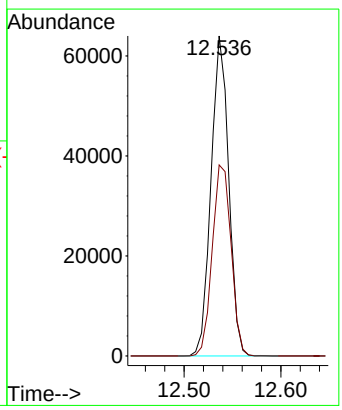


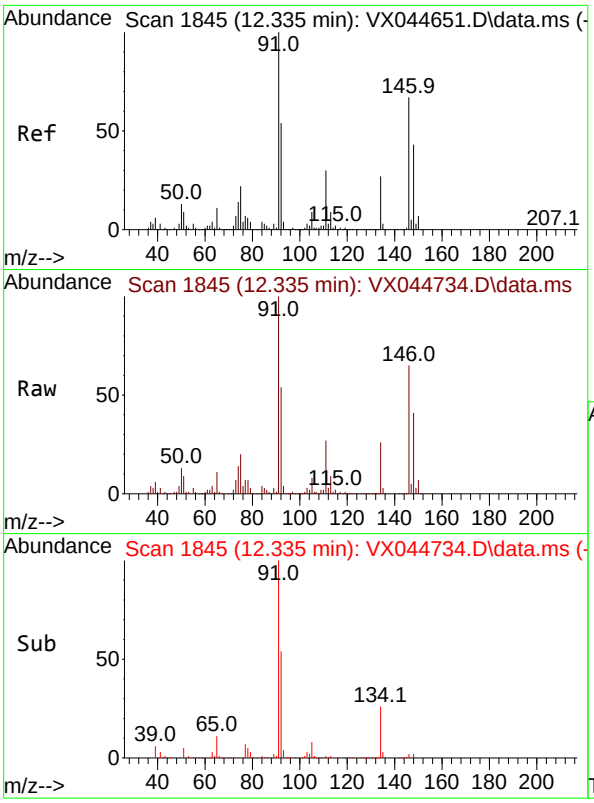




#90
Hexachloroethane
Concen: 47.079 ug/l
RT: 12.536 min Scan# 1878
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:117 Resp: 81232

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 117 | 100 | | |
| 201 | 63.6 | 32.3 | 96.8 |



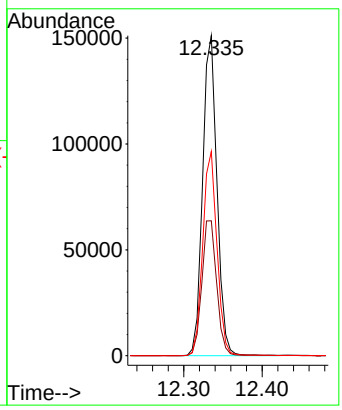


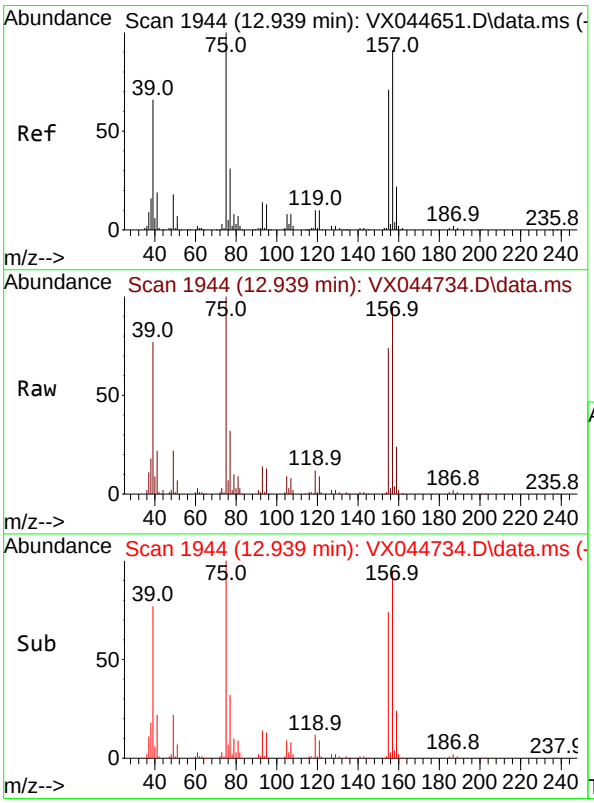

#91
1,2-Dichlorobenzene
Concen: 49.238 ug/l
RT: 12.335 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:146 Resp: 191751

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 146 | 100 | | |
| 111 | 43.8 | 22.4 | 67.2 |
| 148 | 63.4 | 31.6 | 94.8 |

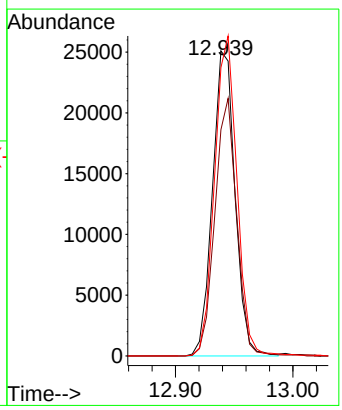


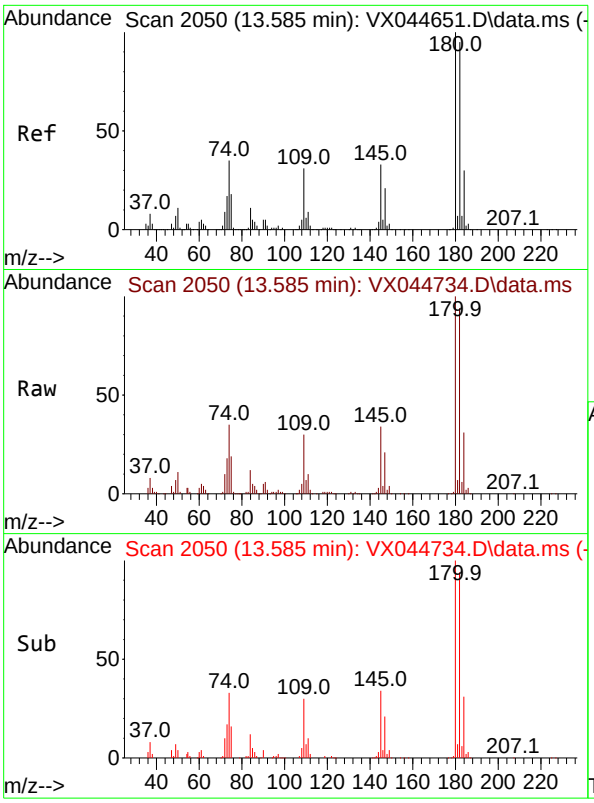




#92
1,2-Dibromo-3-Chloropropane
Concen: 42.388 ug/l
RT: 12.939 min Scan# 1944
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion: 75 Resp: 33494

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 75 | 100 | | |
| 155 | 81.8 | 39.0 | 116.9 |
| 157 | 104.4 | 49.9 | 149.7 |



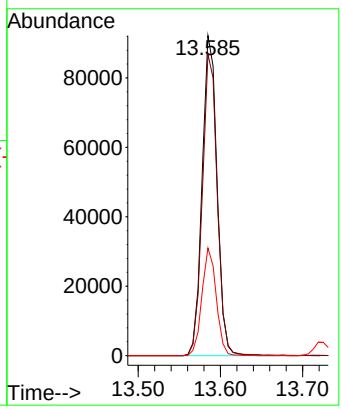


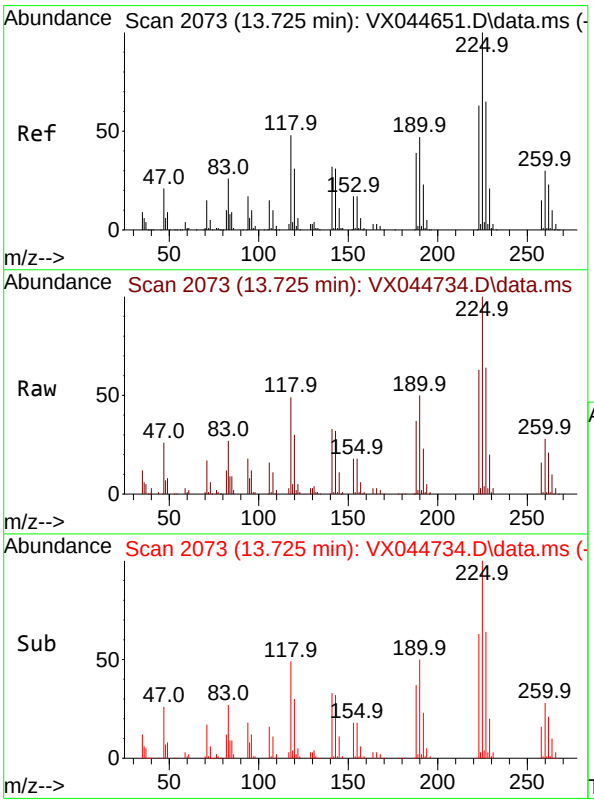

#93
1,2,4-Trichlorobenzene
Concen: 49.887 ug/l
RT: 13.585 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

Tgt Ion:180 Resp: 116141

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 93.9 | 47.4 | 142.2 |
| 145 | 32.3 | 16.7 | 50.1 |

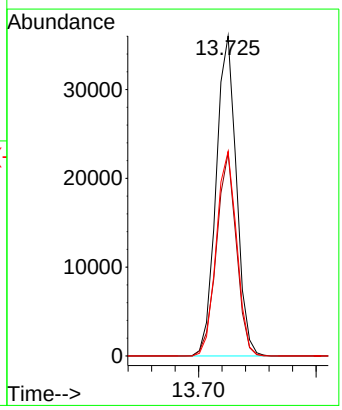


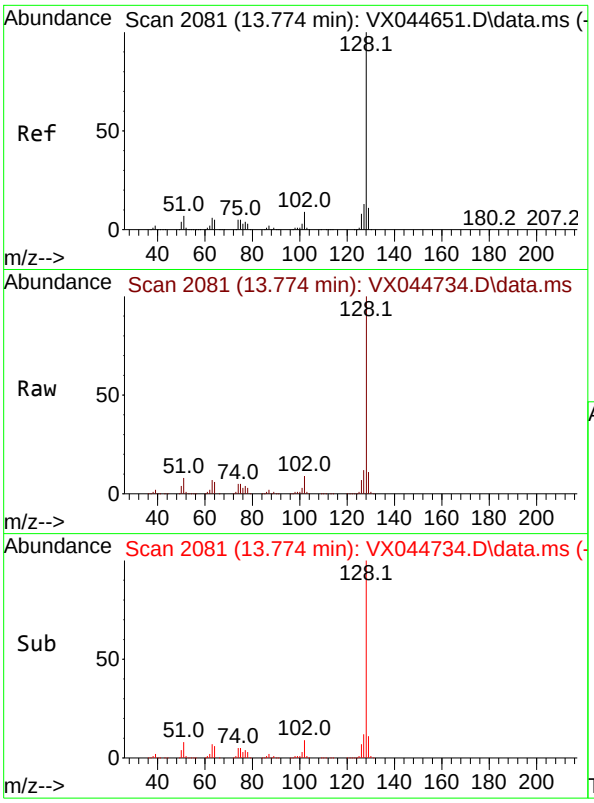




#94
Hexachlorobutadiene
Concen: 47.259 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:225 Resp: 43217

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 225 | 100 | | |
| 223 | 62.0 | 31.9 | 95.7 |
| 227 | 64.2 | 31.8 | 95.4 |



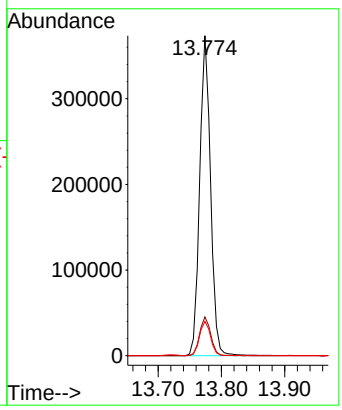


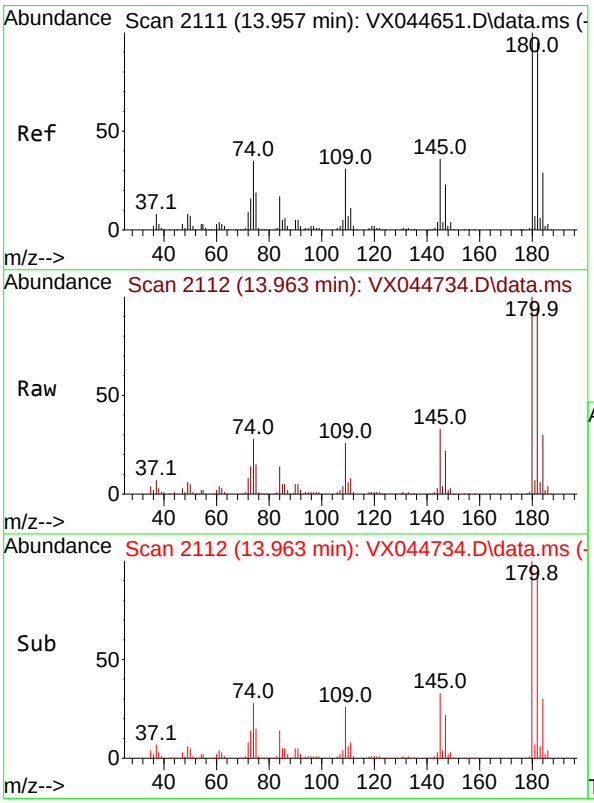

#95
Naphthalene
Concen: 49.711 ug/l
RT: 13.774 min Scan# 2
Delta R.T. 0.000 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

**Instrument :**
MSVOA_X
**ClientSampleId :**
VSTDCCC050EC

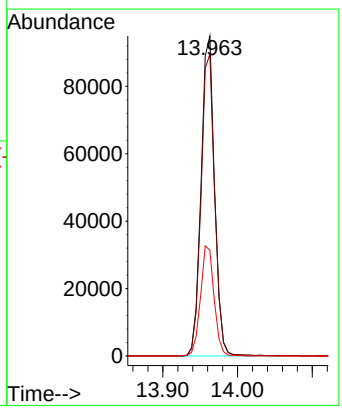
Tgt Ion:128 Resp: 446363

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 128 | 100 | | |
| 127 | 12.4 | 10.3 | 15.5 |
| 129 | 11.0 | 8.7 | 13.1 |




#96
1,2,3-Trichlorobenzene
Concen: 49.232 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX044734.D
Acq: 27 Jan 2025 19:09

Tgt Ion:180 Resp: 118806

| Ion | Ratio | Lower | Upper |
|---|---|---|---|
| 180 | 100 | | |
| 182 | 95.7 | 47.2 | 141.6 |
| 145 | 34.7 | 17.5 | 52.6 |